MS21919 DG & WDG CLAMPS

Loop-type cushioned aluminum alloy clamp. Cushion (non-fuel resistant) is bonded to inner surface and edges of clamp. WDG clamps are cushion wedge type. Cushion assures tight fit and eliminates vibration, thus preventing line abrasion.

Tube Dia.	Dash No.	Price Each	Dash No.	Price Each	Tube Dia.	Dash No.	Price Each	Dash No.	Price Each
1/8	DG2	**$0.80**	WDG2	**$0.67**	1-5/16	DG21	**$2.72**	WDG21	**$2.17**
3/16	DG3	**$0.63**	WDG3	**$0.78**	1-3/8	DG22	**$2.18**	WDG22	**$1.85**
1/4	DG4	**$0.32**	WDG4	**$0.68**	1-7/16	DG23	**$3.90**	WDG23	**$2.68**
5/16	DG5	**$0.40**	WDG5	**$0.86**	1-1/2	DG24	**$1.84**	WDG24	**$1.83**
3/8	DG6	**$0.29**	WDG6	**$0.83**	1-9/16	DG25	**$4.35**	WDG25	**$3.35**
7/16	DG7	**$0.72**	WDG7	**$0.83**	1-5/8	DG26	**$2.75**	WDG26	**$2.93**
1/2	DG8	**$0.47**	WDG8	**$0.90**	1-3/4	DG28	**$1.90**	WDG28	**$2.70**
9/16	DG9	**$0.82**	WDG9	**$1.08**	1-7/8	DG30	**$2.67**		
5/8	DG10	**$0.53**	WDG10	**$0.89**	1-15/16	DG31	**$3.85**		
11/16	DG11	**$1.04**	WDG11	**$1.16**	2	DG32	**$1.88**		
3/4	DG12	**$0.52**	WDG12	**$1.18**	2-1/16	DG33	**$3.35**		
13/16	DG13	**$1.05**	WDG13	**$1.29**	2-1/8	DG34	**$2.63**		
7/8	DG14	**$0.96**	WDG14	**$1.29**	2-1/4	DG36	**$2.97**		
15/16	DG15	**$1.43**	WDG15	**$1.61**	2-3/8	DG38	**$3.80**		
1	DG16	**$0.71**	WDG16	**$1.27**	2-1/2	DG40	**$2.65**		
1-1/16	DG17	**$1.80**	WDG17	**$1.99**	2-5/8	DG42	**$6.65**		
1-1/8	DG18	**$1.55**	WDG18	**$1.73**	2-3/4	DG44	**$7.50**		
1-3/16	DG19	**$2.20**	WDG19	**$1.99**	2-7/8	DG46	**$4.80**		
1-1/4	DG20	**$1.58**	WDG20	**$1.66**	3	DG48	**$2.24**	WDG48	**$4.65**
					3-1/8	DG50	**$6.60**		

MS21919-WH CLAMPS

Band Material: Low Carbon Steel
Cushion Material: Silicone - For elevated temperature usage in phosphate ester based fluid and other synthetic fluid contaminated areas. Unaffected by ozone. Not resistant to petroleum based fluids. Color is white.

Part No.	Tube Dia.	Price
MS21919-WH2	1/8”	**$1.48**
MS21919-WH3	3/16”	**$1.51**
MS21919-WH4	1/4”	**$1.15**
MS21919-WH5	5/16”	**$1.23**
MS21919-WH6	3/8”	**$1.41**
MS21919-WH7	7/16”	**$1.41**
MS21919-WH8	1/2”	**$1.40**
MS21919-WH9	9/16”	**$1.81**
MS21919-WH10	5/8”	**$1.52**
MS21919-WH11	11/16”	**$1.87**
MS21919-WH12	3/4”	**$1.69**
MS21919-WH13	13/16”	**$1.83**
MS21919-WH14	7/8”	**$1.87**
MS21919-WH15	15/16”	**$1.66**
MS21919-WH16	1”	**$1.96**
MS21919-WH18	1-1/8”	**$2.36**
MS21919-WH20	1-1/4”	**$2.01**

MS21919 WCH CLAMPS

Band Material: Corrosion Resistant Steel
Cushion Material: Silicone - For elevated temperature usage in phosphate ester based fluid and other synthetic fluid contaminated areas. Unaffected by ozone. Not resistant to petroleum based fluids. Color is white.

Part Number	Tube Dia.	Price
MS21919-WCH2	1/8”	**$1.72**
MS21919-WCH3	3/16”	**$1.83**
MS21919-WCH4	1/4”	**$1.56**
MS21919-WCH5	5/16”	**$1.59**
MS21919-WCH6	3/8”	**$1.69**
MS21919-WCH7	7/16”	**$1.59**
MS21919-WCH8	1/2”	**$1.70**
MS21919-WCH9	9/16”	**$1.87**
MS21919-WCH10	5/8”	**$1.87**
MS21919-WCH11	11/16”	**$1.98**
MS21919-WCH12	3/4”	**$2.30**
MS21919-WCH13	13/16”	**$2.20**
MS21919-WCH14	7/8”	**$2.36**
MS21919-WCH15	15/16”	**$2.70**
MS21919-WCH17	1 1/16”	**$2.17**
MS21919-WCH18	1 1/8”	**$2.61**
MS21919-WCH20	1 1/4”	**$2.56**
MS21919-WCH22	1 3/8”	**$2.52**

MS21919-WCJ CLAMPS

Band Material: Corrosion Resistant Steel
Cushion Material: Fluorosilicone - For elevated temperature usage in petroleum based fluid contaminated areas. Unaffected by ozone. Not resistant to phosphate ester based fluids. Color is solid blue.

Part No.	Tube Dia.	Price
MS21919-WCJ2	1/8”	**$2.38**
MS21919-WCJ3	3/16”	**$2.41**
MS21919-WCJ4	1/4”	**$2.30**
MS21919-WCJ5	5/16”	**$2.42**
MS21919-WCJ6	3/8”	**$2.70**
MS21919-WCJ7	7/16”	**$2.70**
MS21919-WCJ8	1/2”	**$2.90**
MS21919-WCJ9	9/16”	**$3.80**
MS21919-WCJ10	5/8”	**$4.35**
MS21919-WCJ12	3/4”	**$4.35**
MS21919-WCJ14	7/8”	**$4.80**
MS21919-WCJ16	1”	**$5.50**
MS21919-WCJ20	1-1/4”	**$7.50**

OETIKER SS MECHANICAL INTERLOCK CLAMPS

Oetiker’s core skills are reflected in three tried-and-tested product groups. A wide range of clamps and rings for connections and mountings of all types. In-house-produced pincers for optimum installation of our assortment of clamps. And practical Quick Connectors for fast plug connections without tools. • Mechanical interlock: for pre-coated material Clamp ear: fast and simple installation, visible deformation provides evidence of proper closure • Dimple: increases clamping force, spring-effect compensates for changes in diameter due to thermal • Specially formed strip edges: reduced risk of damage to parts being clamped • Material: 155 Stainless Steel, Material no. 1.4301/UNS S30400

Description	Part No.	Price
Oetiker 256 Stainless Steel MI-Clamp 25.6mm (1”) open position / 22.8mm pinched position	15-05730	**$0.40**
Oetiker 226 Stainless Steel MI-Clamp 22.6mm (7/8”) open position / 19.8mm pinched position	15-05731	**$0.42**
Oetiker 105 Stainless Steel MI-Clamp 10.5mm open position / 8.9mm pinched position	15-08416	**$0.36**
Oetiker 133 Stainless Steel MI-Clamp 13.3mm open position / 11.4mm pinched position	15-08417	**$0.38**
Oetiker 145 Stainless Steel MI-Clamp 14.5mm open position / 12.6mm pinched position	15-08418	**$0.47**
Oetiker 170 Stainless Steel MI-Clamp 17.0mmopen position / 15.1mm pinched position	15-08419	**$0.39**
Oetiker 198 Stainless Steel MI-Clamp 19.8mm (3/4”) open position / 17.0mm pinched position	15-08420	**$0.42**

OETIKER STEPLESS SCREW CLAMPS

Oetiker Stepless Screw Clamps feature a unique tongue-in-groove design to provide a perfect 360° seal. Their narrow band width of 9 mm is designed to fit grooved objects. They are ideal where specialty clamping needs have to be met and the application calls for a smooth inner surface such as on flexible duct sleeves. The tongue-in-groove design provides that “stepless” complete seal. Manufactured using 300 AISI series stainless steel.

P/N	Clamping O.D. Range Inches	Price Each	P/N	Clamping O.D. Range Inches	Price Each
028-9	13/16” - 1-1/8”	**$6.80**	090-9	3-5/16” - 3-1/2”	**$8.50**
031-9	15/16” - 1-1/4”	**$7.80**	095-9	3-1/2” - 3-3/4”	**$8.50**
032-9	1-1/16” - 1-1/4”	**$8.50**	100-9	3-11/16” - 3-15/16”	**$6.70**
036-9	1-1/4” - 1-7/16”	**$7.80**	105-9	3-15/16” - 4-1/8”	**$13.50**
040-9	1-3/8” - 1-9/16”	**$7.80**	110-9	4-1/8” - 4-5/16”	**$7.50**
045-9	1-9/16” - 1-3/4”	**$8.99**	115-9	4-5/16” - 4-1/2”	**$8.99**
050-9	1-3/4” - 2”	**$8.99**	120-9	4-1/2” - 4-11/16”	**$11.75**
055-9	1-15/16” - 2-1/8”	**$8.99**	135-9	5-1/16” - 5-5/16”	**$7.50**
065-9	2-5/16” - 2-9/16”	**$10.50**	140-9	5-1/2” - 5-11/16”	**$10.50**
070-9	2-9/16” - 2-3/4”	**$7.50**	145-9	5-11/16” - 5-7/8”	**$8.50**
075-9	2-3/4” - 3”	**$10.50**	150-9	5-7/8” - 6-1/16”	**$11.75**
080-9	2-15/16” - 3-1/8”	**$10.50**	160-9	6-1/16” - 6-1/4”	**$6.80**
085-9	3-1/8” - 3-5/16”	**$10.50**	165-9	6-1/4” - 6-1/2”	**$7.50**

200 HOSE CLAMPS

Aero-Seal stainless steel clamps are for industrial & aircraft applications. This tangential worm-screw type clamp is for use on fuel, oil, air & coolant lines. The worm drive provides uniform clamping pressure without distorting hose. Tighten slotted head with screwdriver.

QS200 Dash No.	Dia. Range (In.) Min.	Max.	Price Each	QS200 Dash No.	Dia. Range (In) Min.	Max.	Price Each
-06H	7/16	25/32	**$2.97**	-44H	2-5/16	3-1/4	**$4.65**
-08H	1/2	29/32	**$2.97**	-48H	2-9/16	3-1/2	**$4.35**
-10H	9/16	1-1/16	**$3.35**	-52H	2-13/16	3-3/4	**$4.65**
-12H	11/16	1-1/4	**$2.99**	-56H	3-1/16	4	**$4.65**
-16H	13/16	1-1/2	**$3.35**	-60H	3-5/16	4-1/4	**$4.70**
-20H	13/16	1-3/4	**$3.00**	-64H	3-9/16	4-1/2	**$4.65**
-24H	1-1/16	2	**$3.35**	-72H	4-1/8	5	**$4.99**
-28H	1-5/16	2-1/4	**$3.35**	-80H	4-5/8	5-1/2	**$6.50**
-32H	1-9/16	2-1/2	**$3.35**	-88H	5-1/8	6	**$6.50**
-36H	1-13/16	2-3/4	**$2.90**	-96H	5-5/8	6-1/2	**$6.50**
-40H	2-1/16	3	**$3.99**	---	---	---	**---**

Less 15% in lots of 50. May be assorted.

200 WING HOSE CLAMPS

Perforated Stainless Steel worm-drive clamp. Heavy-duty four-piece Quadra-Lock construction enables far more tightening torque to be delivered to the band perforations. Use for aircraft and heavy-duty industrial applications. Conical Arched Perforated Slots: More steel between perforations for added strength and smoother worm-drive engagement. Made in the USA

QS200 Dash No.	Dia. Range (In.) Min.	Max.	Price Each	QS200 Dash No.	Dia. Range (In) Min.	Max.	Price Each
-06W	7/16	25/32	**$3.80**	-24W	1-1/16	2	**$3.80**
-08W	1/2	29/32	**$3.80**	-28W	1-9/16	2-1/4	**$3.80**
-10W	9/16	1-1/16	**$3.85**	-32W	1-9/16	2-1/2	**$3.99**
-12W	11/16	1-1/4	**$3.80**	-36W	1-13/16	2-3/4	**$4.35**
-16W	13/16	1-1/2	**$3.65**	-40W	2-1/16	3	**$4.70**

BREEZE AEROSPACE CLAMPS AN737TW SERIES

Breeze offers a several products to meet various Aerospace and Military specifications including the NAS1922, NAS 1924, MS35842, and AN737TW clamps that meet Federal Supply Class 4730. Made in the USA

Specifications: • 410 Stainless Steel Thumb Wing Screw • 9/16" Band in 300-Series SS • Meets Federal Supply Class 4730

Features: • Stainless Steel • Meets Federal Supply Class 4730 • Diameter Range 7/16" – 10 5/16"

Part No.	Min	Max	Price
AN737TW30	11/16"	15/16"	**$4.80**
AN737TW44	61/64"	1 3/8"	**$4.90**

BREEZE AERO-SEAL STAINLESS CLAMP KITS

Perforated stainless steel worm-drive clamp. Heavy-duty four-piece Quadra-Lock construction enables far more tightening torque to be delivered to the band perforations. Use for aircraft and heavy-duty industrial applications. Conical Arched Perforated Slots: More steel between perforations for added strength and smoother worm-drive engagement. Made in the USA

Aero-Seal Specs: • 9/16" (14.2mm) band • 5/16" (7.9mm) slotted hex screw • Per SAE standard J1508 Type "F"

Pack A : Contains 2 each QS200 -52H, -64H, -72H and -80H
P/N 05-00942 ..... **$40.50**

Pack B : Contains 2 each QS200 -8H, -12H, -24H, -32H, -40H, & -64H.
P/N 05-01340 ..... **$41.50**

BREEZE LINER CLAMPS

An integral extension of the band as an inner liner protects soft-surface hose (silicone and others) from damage caused by extrusion or shearing through the band slots. Liner clamps afford maximum protection to soft hoses while providing a true concentric seal.

Standard 1/2" (12.7mm) band
5/16" (7.9mm) slotted hex head screw
Per SAE standard J1508 Type "F"

SAE Size	Description	Min	Max	Part Number	Price
6	Breeze Clamp 9406H	7/16"	25/32"	05-14930	**$2.10**
8	Breeze Clamp 9408H	1/2"	29/32"	05-04708	**$2.14**
10	Breeze Clamp 9410H	9/16"	1-1/16"	05-14931	**$2.16**
12	Breeze Clamp 9412H	11/16	1-1/4	05-04709	**$2.17**
16	Breeze Clamp 9416H	13/16	1-1/2	05-04711	**$2.07**
20	Breeze Clamp 9420H	13/16"	1-3/4"	05-14932	**$2.17**
24	Breeze Clamp 9424H	1-1/16"	2"	05-14933	**$2.17**
28	Breeze Clamp 9428H	1-5/16"	2-1/4"	05-14934	**$2.17**
32	Breeze Clamp 9432H	1-9/16"	2-1/2"	05-14935	**$2.21**
36	Breeze Clamp 9436H	1-13/16"	2-3/4"	05-14936	**$2.31**
40	Breeze Clamp 9440H	2-1/16"	3"	05-14937	**$2.38**
44	Breeze Clamp 9444H	2-5/16"	3-1/4"	05-14938	**$2.36**
48	Breeze Clamp 9448H	2-9/16"	3-1/2"	05-14939	**$2.21**
52	Breeze Clamp 9452H	2-13/16"	3-3/4"	05-14940	**$4.35**
52	Breeze Clamp 9452	2-13/16"	3-3/4"	05-15419	**$3.80**
56	Breeze Clamp 9456H	3-1/16"	4"	05-14941	**$4.35**
60	Breeze Clamp 9460H	3-5/16"	4-1/4"	05-14942	**$3.35**
64	Breeze Clamp 9464H	3-9/16"	4-1/2"	05-14943	**$4.65**
72	Breeze Clamp 9472H	1-7/8"	5"	05-14944	**$3.95**
80	2-1/2" Breeze Clamp 9480H	2-1/2"	5-1/2"	05-14945	**$3.80**

BREEZE AERO-SEAL® 300 SERIES CLAMPS

The original perforated stainless steel worm-gear clamp. Heavy duty four-piece Quadra-Lock construction enables far more tightening torque to be delivered to the band perforations. Use for aircraft and heavy-duty industrial applications.
• 9/16" (14.2 mm) band • 5/16" (7.9 mm) slotted hex screw • Per SAE standard J1508 Type "F"

SAE Size	Description	Min	Max	Part Number	Price
6	Breeze Clamp 300-06H	7/16"	25/32"	05-14905	**$2.18**
8	Breeze Clamp 300-08H	1/2"	29/32"	05-14906	**$2.18**
10	Breeze Clamp 300-10H	9/16"	1-1/16"	05-14907	**$2.18**
12	Breeze Clamp 300-12H	11/16"	1-1/4"	05-14908	**$2.17**
16	Breeze Clamp 300-16H	13/16"	1-1/2"	05-14909	**$2.35**
20	Breeze Clamp 300-20H	13/16"	1-3/4"	05-14910	**$2.10**
24	Breeze Clamp 300-24H	1-1/16"	2"	05-14911	**$2.16**
28	Breeze Clamp 300-28H	1-5/16"	2-1/4"	05-14912	**$1.92**
32	Breeze Clamp 300-32H	1-9/16"	2-1/2"	05-14913	**$2.07**
36	Breeze Clamp 300-36H	1-13/16"	2-3/4"	05-14914	**$2.35**
40	Breeze Clamp 300-40H	2-1/16"	3"	05-14915	**$2.97**
44	Breeze Clamp 300-44H	2-5/16"	3-1/4"	05-14916	**$3.35**
48	Breeze Clamp 300-48H	2-9/16"	3-1/2"	05-14917	**$2.99**
52	Breeze Clamp 300-52H	2-13/16"	3-3/4"	05-14918	**$3.35**
56	Breeze Clamp 300-56H	3-1/16"	4"	05-14919	**$3.35**
60	Breeze Clamp 300-60H	3-5/16"	4-1/4"	05-14920	**$2.97**
64	Breeze Clamp 300-64H	3-9/16"	4-1/2"	05-14921	**$4.70**
72	Breeze Clamp 300-72H	1-7/8"	5"	05-14922	**$2.92**
80	Breeze Clamp 300-80H	2-1/2"	5-1/2"	05-14923	**$3.65**
88	Breeze Clamp 300-88H	3-1/8"	6"	05-14924	**$4.35**
96	Breeze Clamp 300-96H	3-5/8"	6-1/2"	05-14925	**$3.70**
104	Breeze Clamp 300-104H	4-1/8"	7"	05-14926	**$4.35**
128	Breeze Clamp 300-128H	5-5/8"	8-1/2"	05-14927	**$7.50**
152	Breeze Clamp 300-152H	7-1/8"	10"	05-14928	**$5.50**
188	Breeze Clamp 300-188H	9-3/8"	12-1/4"	05-14929	**$6.50**

DOUBLE EAR CLAMPS

•Robust, durable one-piece design offers positive, tamper resistant seal •For air and fluid media lines •One-piece design offers quick and easy installation •Smooth edges prevent damage to hose.

1/4".....P/N 15-04628 .....**$0.76**
5/16".....P/N 15-04870 .....**$0.64**
3/8".....P/N 15-04816 .....**$0.67**

EAR CLAMP PINCERS WITH SIDE JAWS TOOL

Side Jaw Pincer, Forged Steel, used to close ear clamps.
P/N 12-03358 .....**$53.75**

STANDARD EAR CLAMP TOOL

Straight Jaw Pincer, Forged Steel, Normal Use of installation or removal of 5mm,7mm,9mm ear clamps.....P/N 12-03297 .....**$65.85**

BREEZE MINIATURE CLAMPS

The best clamp for small diameter hose and tubing. Stainless steel band and housing with plated carbon steel screw. Applies an even circumferential pressure with less torque.

Description	Part No.	Price
6504 Mini Breeze Clamp .250" Thru .625"	6504	**$1.94**
6506 Mini Breeze Clamp .438" Thru .781"	6506	**$1.94**
1/4 Vac S/S Silicone Lined Hose Clamp	05-04707	**$1.80**

SNAPPER CLAMPS

A quick ratchet closure provides specific take-up, eliminating excessive tightening which may mutilate the hose.

3/8" for 1/4" fuel line ..P/N 05-00940 ..... **$0.53**
1", for radiator hose ...P/N 05-00941 ..... **$0.72**

LOOM CLAMPS VINYL COATED

Vinyl Hose Clamps. Vinyl coated galvanized steel. Temp. Range (F)-30 to +180

Clamp I.D.	Part No.	Price	Clamp I.D.	Part No.	Price
1/4	15-04635	**$1.00**	5/8	15-04877	**$1.23**
3/16	15-04804	**$1.01**	1/2	15-06851	**$1.15**
3/8	15-04821	**$0.94**			

EXTRA GRIP STEEL CONDUIT CLAMPS

These Extra Grip Conduit Clamps have an added feature other clamps just don't. To help fight the susceptibility of the conduit slipping due to oil buildup in the clamp, this clamp features a groove for increased grip on coiled wire conduit.

3/16-Inch .....P/N 05-13142 ..**$30.50**
1/4-Inch .....P/N 05-13143 ..**$34.50**

AN742 PLAIN CLAMPS

Plain loop-type line support clamps, made of aluminum alloy meeting specification QQ-A-362, condition T. Heat-treated to a minimum tensile strength of 50,000 PSI.

Aluminum					
Dash No.	For Tube O. D. (In.)	Price Each	Dash No.	For Tube O. D. (In.)	Price Each
-D3	3/16	**$0.54**	-D8	1/2	**$0.57**
-D4	1/4	**$0.47**	-D10	5/8	**$0.87**
-D5	5/16	**$1.05**	-D12	3/4	**$1.09**
-D6	3/8	**$0.78**	-D15	15/16	**$1.96**
-D7	7/16	**$2.31**	-D16	1	**$1.27**

Steel					
Dash No.	For Tube O. D. (In.)	Price Each	Dash No.	For Tube O. D. (In.)	Price Each
-3	3/16	**$0.46**	-8	1/2	**$2.96**
-4	1/4	**$0.50**	-10	5/8	**$3.99**
-5	5/16	**$1.92**	-12	3/4	**$1.95**
-6	3/8	**$1.94**	-15	15/16	**$8.99**
-7	7/16	**---**	-16	1	**$7.50**

Less 15% in lots of 50. May be assorted.

LINE CLAMPS

These line clamps are lightweight but tough enough for the most rugged applications. Feature single piece .030" thick aluminum construction. No more messy bundles. Each clamp is shaped to hold braided line, tubing, or wiring securely, without pinching. Secured w/ standard tie wraps, these claps keep movement and wear to a minimum. Can be adjusted to mount on any tubing from 3/4".

Size	Part No.	Price	Size	Part No.	Price
1/4"	05-00004	**---**	5/8"	05-00007	**$1.73**
3/8"	05-00005	**$1.87**	3/4"	05-00008	**$1.80**
1/2"	05-00006	**$1.66**	1"	05-00009	**$1.87**
30 piece assortment (includes 5 of each clamp)				P/N 05-02205.....	**$33.00**

TYGON LP-1200 FUEL LINE TUBING

Color: Opaque Clear
This high-performance fuel tubing is intended for use with small engines.
Tygon® LP-1200 Low Permeation Fuel Tubing is specially designed to meet new EPA and CARB evaporative emission standards of 15g/m2/day. The patent-pending design and robust multi-layer construction offers superior fitting retention and resistance to swelling, hardening and cracking caused by hydrocarbon-based fluids.

Features: • Transparent - Easy to diagnose fuel flow or leak problems • High purity fluoropolymer inner liner - Reduces the risk of fuel system fouling from extractable solids found in typical rubber products • Superior fuel resistance and compatible with ethanol-enhanced fuels - Worry-free operation • Excellent fitting retention - 100% seal for optimum safety • Superior flexibility - Easy assembly, routing and optimized fuel pick-up • Excellent elasticity - Prevents "necking" from over-stretching during installation • UV resistant: Meets ANSI B175.1 Annex D Standard UV testing • EPA and CARB approved

I.D. (in.)	O.D. (in.)	Wall Thick-ness. (in.)	Max. Working Pressure* (PSI)	Part No.	Price Per Foot
1/8	1/4	1/16	60	05-15261	**$3.35**
1/4	3/8	1/16	30	05-15262	**$5.50**

NYLO-SEAL TUBING - POLY-FLO TUBING

NYLO-SEAL NYLON TUBING

Made of Nylon-II and is far superior to other types of Nylon tubing. It does not depend on moisture for flexibility and does not become brittle. It has excellent resistance to flexural fatigue and can be used where there is vibration or tube movement. Self-extinguishing under A.S.T.M. Test D635-44. N Tubing is rated to 1000 lbs. and is excellent for instrument lines and other low pressure applications. Use NSR tubing (2500 lb. rating) for hydraulic brake lines after verifying it is appropriate tubing for your application.

N TUBING

Black Part No.	Natural Part No.	OD Inches	Wall Thickness	Burst Pressure	Min Bend Radius	Weight	Price per Ft.
N/A	05-01009	1/8	0.023	960	3/8	0.004	**$0.41**
N/A	05-01010	3/16	0.025	960	1/2	0.006	**$0.35**
N/A	05-01011	1/4	0.035	960	1-1/4	0.015	**$0.50**
N/A	05-01012	3/8	0.05	960	2	0.032	**$0.93**

NSR TUBING

Black Part No.	Natural Part No.	OD Inches	Wall Thickness	Burst Pressure	Min Bend Radius	Weight	Price per Ft.
05-01228	05-12487	1/8	0.026	2120	5/16	0.004	**$0.47**
05-01230	05-12489	3/16	0.039	2120	7/16	0.008	**$0.82**
05-01229	05-12488	1/4	.050	2120	9/16	0.015	**$1.03**
05-01231	05-12490	3/8	0.075	2120	1	0.032	**$2.10**

NYLAFLOW NYLON TUBING

Nylon Polypenco. pressure tubing is a super tough, low friction, high flexibility tubing that can be used for cable protectors or in short pieces, as small bushings and washers. Suitable for use in oil, air, vacuum, fuel and low pressure hydraulic lines. It resists abrasion and wears better than aluminum or steel tubing. Has an extremely smooth inner surface with a very low coefficient of friction. Used for brake lines, and also as a conduit for the rudder cables in the Rutan VariEze and Long-EZ. Rated 1000 psi. Use Poly-Flo fittings. Suggested Temp Range: -65 to +150 Fahrenheit Sold by the foot.

Type	OD	ID	PSI	Part No.	Price
Standard Wall	1/8	.096	1000	05-00105	**$0.64**
Standard Wall	3/16	.138	1000	05-00110	**$0.72**
Standard Wall	1/4	.190	1000	05-00115	**$1.14**
High Bursting Pressure	1/4	.150	2500	05-04349	**$1.18**
High Bursting Pressure	3/16	.111 (appx.)	2500	05-04355	**$1.04**

NEOPRENE HOSE

Neoprene tubing is used in instrument hookups and for battery drains. Use AN hose fittings such as AN840 with Breeze Mini Clamps, nylon or polyethylene hose fittings such as 0710-153. Not for use as fuel or oil lines.

I.D.	Wall	Part No.	Price/Ft
3/16"	1/16"	05-00200	**$3.80**
1/4"	1/16"	05-00300	**$1.73**
3/8"	1/16"	05-00400	**$2.14**

TYGON TUBING

Tygon tubing is flexible, tough, abrasion-resistant and non-aging. Ideal or hookup of airspeed pitot and static lines (not recommended for pressurized applications). Use AN hose fittings such as AN840 with Breeze Mini Clamps, nylon or polyethylene hose fittings such as 0710-153.

3/8" O.D. X 1/4" I.D.....P/N 05-00944 .....**$4.35 Ft**
1/2" O.D. X 3/8" I.D.....P/N 05-00945 .....**$10.80 Ft**

BING ALCOHOL RESISTANT FUEL LINE

This fuel line is blue in color and does not rot or deteriorate from the inside, clogging the carburetor or fuel system. It withstands 50 PSI and tensile strength is 8000 PSI. It is resistant to temperatures of -65° to 220°F without deterioration, features exceptional resistance to gasoline, oil, oxygen, and ozone, and has high elastic memory allowing use of Delrin or nylon barbed fittings in low pressure applications without the need for external clamps.

Description	ID	OD	Part No.	Price
Bing Alcohol Resistant Fuel Line	1/4	3/8	05-00500	**$3.80**
Bing Alcohol Resistant Fuel Line	1/8	1/4	05-00560	**$3.80**

VINYL TUBING

This clear Vinyl tubing is strong and light weight. Use flexible vinyl tubing to transport liquids, gases, and some solids. Chemically resistant to alkalies, alcohol, aliphate, hydrocarbons, oils, and some acids.

Part No.	OD	ID	Price
0500-071	3/8	1/4	**$1.38**
0500-165	7/8	5/8	**$4.65**
0500-180	1	3/4	**$6.50**

BLACK MAX NYLON BRAKE LINE

This is the standard brake line used with Black Max Kits. It is nylon tubing with 1/8" OD x .078" ID and 1000PSI. Sold by the Foot.....P/N 06-01006 .....**$1.18**

POLY-FLO POLYETHYLENE TUBING

Poly-Flo tubing is a flexible, economical thermoplastic tubing fabricated from high molecular weight polyethylene for improved strength. The base resin has the greatest resistance to environmental stress cracking of all the regular polyethylenes. It meets A.S.T.M. D-1248-60T, Type 1, Class A, Grade 4 and Federal Specification LP-590, Type 2, Grade 7. Used for instrument or pneumatic lines. Use Nylo-Seal fittings (259-N inserts are required), nylon or polyethylene hose fittings such as 0710-153. Color - natural.

Part No.	Tube OD	Wall	Bend Radius	PSI at 75 F	PSI at 150 F	Price
44-P	1/4	0.040	1.250	190	75	**$0.76**
66-P	3/8	0.062	2.00	205	80	**$0.97**
88-P	1/2	0.062	2.500	150	60	**$0.90**

PRESSURE RATINGS

Operating Temperature	Poly-Flo (Polyethylene)		Nylo-Seal NSR** (Nylon 11)	
	Burst Pressure* PSI	Max. Work Pressure* PSI	Burst Pressure* PSI	Max. Work Pressure* PSI
Room Temp.	250-600	75-160	2500	625
140°F.	125-300	37-80	1800	425
230°F.	UNUSABLE		1400	350
280°F.	UNUSABLE		UNUSABLE	

***Depends on tube size and wall thickness. Working pressure based on a safety factor of 4.**
****Satisfactory for continuous operation up to 180°F. Becomes embrittled above this point.**

SUPER HEAVY PULSE LINE

Super heavy wall clear polyurethane pulse line has an extra thick 3/32" wall that will not dampen crankcase pulse even on longer runs. Clear one piece urethane construction is not affected by fuel. Will not harden, crack, or become brittle with age. Can also be used as clear fuel line. Sold by the foot. Outside Diameter: 7/16". Inside Diameter: 1/4". Wall Thickness: 3/32" .....P/N 15-06094 .....**$9.60**

CLEAR BLUE FUEL LINE

Polyether-based Polyurethane Tubing offers excellent resistance to chemicals, kinking, abrasion, hydrolysis, oxidation, and ozone exposure. Our Polyether-based Polyurethane tubing excels in maintaining exceptional flexibility, high-impact strength, and above average performance in cold temperature.

O.D.	Description	Part Number	Price
1/4"	Clear Blue Polyurethane Fuel Line	15-04632	**$0.83**
5/16"	Clear Blue Polyurethane Fuel Line	15-04874	**$0.94**
3/8"	Clear Blue Polyurethane Fuel Line	15-04818	**$1.32**

POLYURETHANE TUBING

Flexible polyurethane tubing has greater abrasion and tear resistance than any other type of plastic tubing. Won't age or oxidize. Excellent low temperature flexibility - avoids brittleness. Tensile strength 5900 PSI. Use AN hose fittings such as AN840 with Breeze Mini Clamps, nylon or polyethylene hose fittings such as 0710-153. Sold by the foot.

Mfg Part No.	OD	ID	Our Part No.	Price
0585-033	3/16	1/8	05-11169	**$1.73**
0585-071	3/8	1/4	0585-071	**$3.95**
0585-107	1/2	3/8	0585-107	**$6.50**
0585-165	7/8	5/8	0585-165	**$13.50**
0585-180	1	3/4	05-04246	**$22.80**

PARKER SUPER-FLEX 397 SERIES FUEL LINE HOSE

Parker's fuel line hose includes a thermoplastic barrier that helps protect atmosphere from harmful hydrocarbons that escape through the carcass of ordinary fuel hose. This hose surpasses all of CARB's stringent permeation requirements and is similar to SAE30R7 specifications. The Super-Flex FL hose also features an abrasion and weather resistant cover to help protect from external application abuse. **Approved for biodiesel fuels that meet ASTM D 6751 requirements per UL guidelines for Biodiesel compatibility.**
4:1 Design factor

Tube:	NBR with a thermoplastic barrier
Cover:	Black Hypalon
Reinforcement:	Braided Polyester
Temperature Range:	-30°F to +257°F (-34°C to +125°C)

Part No.	ID (in.)	Reinf. Braids	OD (in.)	OD (mm)	Approx. wt. per 100 ft.	Min. Bend Rad.	Max Rec. WP	Price Per Ft.
05-03597	1/4	1	0.500	12.7	9.7	1.5"	100	**$4.35**
05-07223	5/16	1	0.0562	14.3	11.3	2.5"	100	**$5.35**
05-03598	3/8	1	0.625	15.9	1.30	2"	100	**$6.80**

AP

MIL-DTL 6000D OIL AND COOLANT HOSE

Inside and out, MIL-DTL 6000D is designed to handle the effects of oil, alcohol, coolant, and water. The tube is oil resistant with a black cover reinforced with high strength mildew resistant yarns. It withstands extreme temperature conditions from -40°F to +250°F. Meets or exceeds U.S. military specs. Lightweight, flexible and easy-to-handle, making it the perfect hose for hard-to-get-to spots in tight engine compartments. Not recommended for fuel lines.

Part No.	Hose Dimensions		Burst Pressure (PSI)	Wt./ Ft. (Lb.)	Price Per Ft.
	I.D. (In.)	O.D. (In.)			
6000-4	1/4	5/8	1,000	.14	**$13.55**
6000-5	5/16	11/16	1,000	.16	**$13.50**
6000-6	3/8	3/4	1,000	.18	**$13.60**
6000-8	1/2	7/8	1,000	.22	**$13.75**
6000-10	5/8	1	1,000	.26	**$15.90**
6000-12	3/4	1-1/8	1,000	.27	**$20.50**
6000-14	7/8	1-1/4	1,000	.32	**$21.50**
6000-16	1	1-3/8	1,000	.38	**$20.50**
6000-20	1-1/4	1-3/4	1000	---	**$28.50**
6000-24	1-1/2	2	1000	---	**$28.50**
6000-28	1-3/4	2-1/8	1000	---	**$34.50**
6000-32	2	2-3/4	1000	---	**$37.95**

Sold in one foot increments. Max Length:10FT
MIL-DTL-6000C was superseded by this MIL-DTL-6000D
Note: This hose is not recommended for use as fuel lines.

AEROQUIP 306 HOSE (MIL-H-5593)

A low-pressure hose for instrument air & vacuum lines. Consists of an inner tube of seamless synthetic rubber, reinforced with a single layer of cotton braid and a synthetic rubber cover. Used with slip-over hose fittings such as the AN840 series, or with Aeroquip 471 hose fittings when connecting to AN type fittings. Conforms to Specification MIL-H-5593. Specify hose I.D. when ordering.

Part No.	Hose Dimensions		Burst Pressure (PSI)	Wt./ Ft. (Lb.)	Price Per Ft.
	I.D. (In.)	O.D. (In.)			
306-3	.188	.406	1,000	.056	**$8.50**
306-2	.125	.344	1,000	.056	**$13.60**
306-4	.250	.469	1,000	.072	**$8.50**
306-6	.375	.594	1,000	.096	**$10.95**
306-8	.500	.750	750	.144	**$13.75**
306-10	.625	.875	700	.168	**$15.90**

AEROQUIP 471 HOSE FITTING
USED WITH AEROQUIP 306 HOSE

471-2D

Aeroquip 471 hose fittings consist of an AN818 nut, an externally threaded 37° nipple and an internally threaded hose socket. All components are anodized aluminum. Fittings conform to MS27404.

Part No.	Tube Size (In.)*	AN818 Nut Thread Size	Price Ea.
471-2D	1/8"	5/6-24	**$26.50**
471-4D	1/4	7/16-20	**$15.50**
471-6D	3/8	9/16-18	**$21.50**
471-8D	1/2	3/4-16	**$53.75**

***Corresponds to tube O.D. of AN-type flared tube fittings. Not an Aeroquip dimension.**

AEROQUIP ASSEMBLY MANDRELS FOR AIRCRAFT HOSE ASSEMBLIES

For use with Aeroquip 491 fittings. These tools are recommended to avoid damage to the sealing surface and to properly support the inner tube. **Note:** These are Aeroquip Factory Mandrels, which are highly recommended for best results.

Hose Size	#491 Fitting P/N	Mandrel P/N	Price	Hose Size	#491 Fitting P/N	Mandrel P/N	Price
3/16"	491-3	S-1051-3*	**$212.95**	1/2"	491-8	S-1051-8	**$158.75**
1/4"	491-4	S-1051-4*	**$168.75**	5/8"	491-10	S-1051-10	**$199.80**
5/16"	491-5	S-1051-5*	**$230.95**	3/4"	491-12	S-1051-12	**$638.00**
3/8"	491-6	S-1051-6*	**$159.75**				

***With Removable mandrel. Aeroquip Qty. Discount: 15% for 20 ft.; 20% for 50 ft.; 25% for 100 ft. or more (Per Item)**

SILICONE HOSE

Sold by the foot (not for fuel or oil)

ID	OD	Wt/Ft/Llbs	Part No.	Price
1/4"	0.45"	.064	05-00659	**$11.75**
3/8"	0.67"	.144	05-00660	**$13.50**
1/2"	0.80"	.175	05-06925	**$14.50**
5/8"	0.95"	.220	05-00661	**$14.50**
3/4"	1.07"	.276	05-00671	**$7.50**

AEROQUIP 303 HOSE

This standard hose is used in medpressure a/c hydraulic fuel, oil and coolant systems. An inner tube of seamless synthetic rubber is reinforced with a synthetic-impregnated single-wire braid over a single cotton braid and an outer cover of synthetic-impregnated oil-resistant cotton braid. Operating temperature -65° to 250°F. Conforms to MILH-8794 (supersedes MIL-H-5511A). Used with Aeroquip 491 hose fittings.

Hose P/N*	For Tubing Size	Hose I.D.	Max. Oper. Pressure** (PSI)	Wt. per Ft. (Lb.)	Price Per Ft.
303-3	3/16	1/8	3,000	.120	**$14.50**
303-4	1/4	3/16	3,000	.132	**$15.90**
303-5	5/16	1/4	3,000	.156	**$17.50**
303-6	3/8	5/16	2,000	.228	**$17.50**
303-8	1/2	13/32	2,000	.264	**$20.50**
303-10	5/8	1/2	1,750	.372	**$21.50**
303-12	3/4	5/8	1,500	.456	**$24.50**

*** Corresponds to dash no. of Aeroquip 491 hose fittings.**
**** Safety factor of 4.**

AEROQUIP 491 HOSE FITTINGS
USED WITH AEROQUIP 303 HOSE

Aeroquip 491 hose fittings consist of an AN818 style nut, an externally threaded 37° nipple and an internally threaded hose socket. Fittings of sizes 3 through 6 have nuts and nipples of cadmium plated steel. Nuts and nipples for size 8 and larger are of anodized aluminum. Fittings conform to MS24587.

Part No.	Tube Size (In.)*	AN818 Nut Thread Size**	Price Each
491-3	3/16	3/8-24	**$30.75**
491-4	1/4	7/16-20	**$24.85**
491-5	5/16	1/2-20	**$32.50**
491-6	3/8	9/16-18	**$32.50**
491-8D	1/2	3/4-16	**$33.85**
491-10D	5/8	1-1/16-12	**$54.75**
491-12D	3/4	1-1/16-12	**$67.99**

*** Corresponds to dash no. of Aeroquip 816 hose fittings.**
**** Safety factor of 4.**

AEROQUIP 666 HOSE

Aeroquip 666 medium pressure Teflon hose is widely used in aircraft applications handling fuel, oils, and other fluids. It is unaffected by all fuels, oils, alcohols, coolants, or solvents commonly use in aircraft. Construction of Aeroquip 666 hose is of spiral extruded Teflon resin for the inner tube with a reinforcement and outer cover of Type 300 Series stainless steel wire braid. The result is a lightweight hose able to withstand prolonged flexing and vibration under all service conditions. Aeroquip 666 hose is also use in hydraulic and pneumatic applications at pressures up to 1500 psi.

Hose Part No.	Hose I.D. (inches)	Hose O.D. (inches)	Max. Oper. Pressure	Wt. Per Ft. (lbs.)	Price Per Ft.
666-4	.188	.312	1500	.08	**$18.99**
666-5	.250	.375	1500	.09	**$21.75**
666-6	.313	.466	1500	.11	**$26.95**
666-8	.406	.562	1500	.14	**$35.50**
666-10	.500	.656	1500	.19	**$42.65**
666-12	.625	.789	1000	.24	**$49.50**

REUSABLE 37° FITTINGS FOR #666 HOSE

Use with Hose Size	Part No.	Price ea.
666-4	05-01320	**$101.75**
666-5	05-01321	**$159.75**
666-6	05-01322	**$123.75!**

Use with Hose Size	Part No.	Price ea.
666-8	05-01323	**$166.95**
666-10	05-01324	**$213.95**
666-12	05-01325	**$327.00**

STRAIGHT CRIMP FLARELESS FITTINGS FOR #666 HOSE

Part Number	Aeroquip Hose Size	Price ea.
AE21502-E	666-4	**$53.75**
AE21502-F	666-5	**$62.80**
AE21502-G	666-6	**$60.75**

Part Number	Aeroquip Hose Size	Price ea.
AE21502-H	666-8	**$37.50**
AE21502-J	666-10	**$90.95**
AE21502-K	666-12	**$112.85**

Crimping tool and sleeve required for assembly.

AEROQUIP 816 & 8891 HOSE FITTINGS

USED WITH AEROQUIP 601 HOSE

Aeroquip 816 straight hose fittings and 8891 90° hose fittings consist of a pre-assembled nut/nipple assembly and an internally threaded hose socket. The size 4 fitting has a cadmium plated steel nut and nipple. Sizes 6, 8 and 10 nuts and nipples, and all sizes of sockets, are anodized aluminum. Note: Aeroquip 816 fittings are not the same as AN816 fittings. Include the word "Aeroquip" with Part number when ordering.

Part No.	Tube Size	Thread	Price
816-4	1/4	7/16-20	**$89.75**
816-6D	3/8	9/16-18	**$67.75**
816-8D	1/2	3/4-16	**$71.80**
816-10D	5/8	7/8-14	**$86.95**
816-12D	3/4	1-1/16	**$91.75**
816-16D	1	1-5/16-12	**$127.99**
816-20D	1-1/4	1-5/8-12	**$208.95**
816-32D	2	2-1/2	**$717.00**

Part No.	Tube Size	Thread	Price
8891-4	1/4	7/16-20	**$123.75**
8891-6D	3/8	9/16-18	**$165.75**
8891-8D	1/2	3/4-16	**$177.99**
8891-10D	5/8	7/8-14	**$198.75**
8891-12D	3/4	1-1/16	**$217.95**
8891-16D	1	1-5/16-12	**$417.00**
8891-20D	1-1/4	1-5/8-12	**$543.00**

***Corresponds to tube O.D. of AN-type flared tube fittings. Not an Aeroquip dimension. ** Same thread size as AN818 nut of same dash no.**
Less 10%, 6 - 11 Aeroquip fittings; Less 15%, 12 - 24 Aeroquip fittings; Less 20%, 25 or more Aeroquip Fittings May be assorted sizes and types.

AEROQUIP FIRE SLEEVE

Aeroquip Firesleeve was specially developed to meet the fire resistance requirements of FAATSO - C53a OR TSO - C75. May be used for all fuel, oil, hydraulic, fire extinguisher & propeller feathering lines. "Fire-proof" hose lines as defined by FAA must withstand a direct flame for fifteen minutes under specified flow conditions without failure. "Fire-resistant" lines must withstand a 5-minute exposure under these conditions. "Fire-proof" hose lines are obtained when the proper size Aeroquip Firesleeve is selected from the chart below and properly assembled. 900591B Clamps - used to secure firesleeve material on each end over the basic hose assembly. See chart for correct size.

900591B-1C ..... Clamp I.D.= 1" ..... P/N 05-02653..... **$4.35**
900591B-2C ..... Clamp I.D.= 1.5" ..... P/N 05-02652..... **$4.99**
900591B-3C ..... Clamp I.D.= 2" ..... P/N 05-02654..... **$5.50**

Part No.	Use with Hose #		900591B Clamp Dash #	Price Per Ft.
	303	601		
AE102-8	-3	-4	-1C	**$21.50**
AE102-9	-4	-5	-2C	**$20.50**
AE102-10	-5	-	-2C	**$20.50**
AE102-12	-6	-6	-2C	**$24.50**
AE102-14	-8	-8	-2C	**$28.75**

Part No.	Use with Hose #/		900591B Clamp Dash #	Price Per Ft.
	303	601		
AE102-16	-10	-10	-3C	**$31.50**
AE102-18	-12	-	-3C	**$35.85**
AE102-20	-	-12	-3C	**$40.75**
AE102-22	-16	-16	-3C	**$46.50**
AE102-24	-	-	-3C	**$51.75**

Quantity Discounts Same As Aeroquip Hose

Firesleeve Clamp Installation Tool - Band Width: 1/4 in - 3/8 in
P/N 05-00447..... **$186.75**

Economy Firesleeve Clamp Tool - for 3/8" or 1/4" roll band.
P/N 12-00684..... **$47.85**

AEROQUIP AE466

Integral silicone firesleeves on Teflon 666 hose assemblies.

This hose/sleeve combination meets the test requirements of TSO-C53A Type D and TSO-C75 Type IIIA and IIIB. The Silicone sleeve is applied directly onto the metal braid an fittings to form a smooth, tight bond. Hose flexibility is not impaired. Non-age sensitive for extra-long service life. Eliminates the use of band clamps. Temperature range -65°F to +450°F. Specify hose size and length of assembly in inches and eighths of an inch from sealing surface to sealing surface. Available in blue, brown, orange, or purple. Purple is lightweight.

Call 877-4-SPRUCE (777823), or email
info@aircraftspruce.com for pricing and availability.

Size	Aeroquip Part No.
-3	AE3663161BXXXX
-4	AE3663161EXXXX
-5	AE3663161FXXXX
-6	AE3663161GXXXX

Size	Aeroquip Part No.
-8	AE3663161HXXXX
-10	AE3663161JXXXX
-12	AE3663161KXXXX

AEROQUIP 8846 HOSE FITTINGS

Aeroquip 8846 45° Fitting. Swivel Flared UNJF Threads - Little Gem Reusable Fittings are noted for their outstanding performance as a result of a unique lipseal design concept. During assembly the nipple spur cuts a lip in the tube stock of the hose forming the fluid seal.

Part No.	Tube Size	Thread	Price
8846-6D	3/8	9/16-18	**$154.75**
8846-8D	1/2	3/4-16	**$182.75**
8846-10D	5/8	7/8-14	**$191.80**
8846-12D	3/4	1-1/16-12	**$229.95**
8846-16D	1	1-5/16-12	**$376.00**
8846-20D	1-1/4	1-5/8-12	**$431.00**

AEROQUIP 601/AE701 HOSE

An inner tube of seamless, specially formulated synthetic rubber reinforced with a stainless steel partial inner braid and full-coverage stainless steel outer braid. Operating temperature -65 to 300F. Aeroquip 601 hose is widely used for aircraft fuel and oil lines where flexibility and light weight are prime considerations. Because of its lighter weight and lower operating pressure than type 303 hose, it is not recommended for hydraulic lines. Use with Aeroquip 816 hose fittings. Aeroquip 601/AE701 is a direct replacement for old 601 hose. AE701 hose has no shelf life and is the upgraded version of 601 hose.

Hose Part Part No.*	For Tubing Size	Hose I.D.	Max. Oper. Pressure** (PSI)	Wt. per Ft. (Lb.)	Price Per Ft.
601-4	1/4	7/32	1500	.114	**$27.50**
601-6	3/8	11/32	1500	.155	**$30.50**
601-8	1/2	7/16	1200	.170	**$34.50**
601-10	5/8	11/16	1200	.207	**$40.75**

*** Corresponds to dash no. of Aeroquip 816 hose fittings. ** Safety factor of 4.**

CUSTOM AEROQUIP 666 TEFLON HOSE ASSEMBLIES

Aeroquip Teflon hose is constructed with a conductive, seamless smooth bore inner tube covered with a stainless steel braid. Unattracted by fuel, oil, coolants and solvents used in aircraft systems. Service and shelf life of Aeroquip Teflon hose is unlimited for all practical purposes. They can be used in fuel, hydraulic and pneumatic applications at working pressures to 1500psi. Minimum burst pressures are 8000 psi sizes -3 to -8. Temperature range is -65° to +450° F. Hose assemblies prices are straight to straight. Call for 45° and 90° elbow pricing.Measurements are taken as follows:

Fittings	Measurement
Straight to Straight	End to end (overall length)
Straight to 45°	End of straight fitting to top of b-nut on 45° fitting
Straight to 90°	End of straight fitting to center of 90° fitting
45° to 45°	Top of b-nut on 45° fitting to Top of b-nut on 45° fitting
45° to 90°	Top of b-nut on 45° fitting to center of 90° fitting
90° to 90°	Center of 90° fitting to Center of 90° fitting

Call 877-4-SPRUCE (777823), or email at info@aircraftspruce.com for pricing and availability.

Size	Aeroquip Part No.
-3	AE3660000BXXXX
-4	AE3660000EXXXX
-5	AE3660000FXXXX
-6	AE3660000GXXXX

Size	Aeroquip Part No.
-8	AE3660000HXXXX
-10	AE3660000JXXXX
-12	AE3660000KXXXX

CUSTOM CONDUCTIVE TEFLON HOSE ASSEMBLIES

Stainless braid conductive Teflon hoses are among the highest quality aircraft hoses that exist. Not "Certified" but are similar in construction to high end certified aircraft hoses. Used extensively on Experimental Aircraft. To use these on a certified aircraft, please discuss with your mechanic and see AC 23-27. Rated continuous working pressure is between 2,000 and 3,000 PSI depending on dia. Rated Bursting pressure is between 8,000 and 12,000 PSI. ALL hoses are pressure tested prior to shipment. Stainless Steel Fittings are used on all hoses. Typical uses for Aircraft with 300hp and less. (Please make sure that hose diameter is suitable for your application) 3 (Primer and Brake lines) 4 (Brake Lines, Oil and Fuel Pressure lines, and certain fuel lines) 6 (Fuel Lines) 8 (Oil Lines).

See these hose assemblies at www.aircraftspruce.ca for price and availability.

BLACK SILICONE FIRE SLEEVE

This black silicone fire sleeve has a temperature range of -65°F to +2000°F. The 5/8" I.D. Fits all E185, E225 & 0-300 engine breather tubes. The 3/4" I.D. fits O-470 I IO470 breather tubes. Sold by the foot.

1/4"..... P/N 05-06832 ..... **$11.80**
5/8"..... P/N 05-00672 ..... **$14.50**
3/4"..... P/N 05-04549 ..... **$15.90**

BLUE FIRE SLEEVE

1/2 ID size for wires or other sizes for wire insulation or firesleeve for aircraft hose assembly. Colors: Blue

Size	Part No.	Price
1/2"	05-04712	**$15.90**
5/8"	05-04713	**$15.90**
3/4"	05-04714	**$16.50**
7/8"	05-04715	**$18.65**

AP

STRATOFLEX HOSE & FITTINGS

STRATOFLEX 111 HOSE

Part No	Tube O.D.	Hose ID.	Max Press	Wt Per lb./In.	Price Per Ft.
111-4	.250	.188	3000	.0120	**$15.90**
111-5	.312	.250	3000	.0130	**$18.65**
111-6	.375	.312	2000	.0190	**$17.50**
111-8	.500	.406	2000	.0220	**$20.50**
111-10	.625	.500	1750	.0310	**$19.50**
111-12	.750	.625	1500	.0380	**$24.50**
111-16	1.00	.875	800	.0368	**$30.50**

STRATOFLEX 300 STRAIGHT FLARED FITTINGS FOR 111 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
300-3S	.188	3/8-24	**$48.99**
300-4S	.200	7/16-20	**$36.60**
300-5S	.312	1/2-20	**$54.75**
300-6S	.375	9/16-18	**$47.65**
300-8D	.500	3/4-16	**$54.75**
300-10D	.625	7/8-14	**$82.75**
300-12D	.750	1-1/16-12	**$93.75**
300-16D	1.00	1-5/16-12	**$132.75**

STRATOFLEX 124 HOSE

Description	Part No.	Price
124-3 Hose	124-3	**$22.80**
124-4 Hose	124-4	**$21.50**
124-6 Hose	124-6	**$25.55**
124-8 Hose	124-8	**$32.50**
124-10 Hose	124-10	**$35.90**

STRATOFLEX 156 MEDIUM PRESSURE HOSE

Part No	Tube O.D.	Hose ID.	Max Press	Mini Blend	Price/Ft.
156-3	.188	.156	1500	1.75	**$26.95**
156-4	.250	.219	1500	2.00	**$28.50**
156-5	.312	.281	1500	2.25	**$29.70**
156-6	.375	.344	1500	2.50	**$31.50**
156-8	.500	.438	1250	3.50	**$33.90**
156-10	.625	.562	1250	4.00	**$38.50**
156-12	.750	.688	1250	4.50	**$44.99**
156-16	1.000	.875	1000	5.50	**$52.75**

STRATOFLEX 678 45° ELBOW FLARED FITTINGS FOR 156 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
678-3S	.188	3/8-24	**$185.99**
678-4S	.250	7/16-20	**$183.75**
678-6D	.375	9/16-18	**$308.00**
678-8D	.500	3/4-16	**$298.95**
678-10D	.625	7/8-14	**$316.00**
678-12D	.750	1-1/16-12	**$311.00**

STRATOFLEX 193 HOSE

Specifications: Hose meets or exceeds the requirements of MIL-H-5593. Construction: Tube - Seamless Buna - N. Reinforcement - One braid of high tensile fiber cord. Cover - Synthetic rubber. Identification: LP-MIL-H-5593-size, date of manufacture, manufacturer's code (CAGE) marked on one side of the hose. Stratoflex 193-size marked on other side of hose. Yellow markings are repeated every 12 inches. Application: Low pressure air and vacuum instrument systems. Vacuum service 20"Hg sizes -2 thru -6; 10"Hg sizes -8and -10. Temperature range: -65 to +165°F / (-54 to +74°C).

Part No	Tube O.D.	Hose ID.	Max Press	Weight per In. (l.b.)	Price Per Ft.
193-2	.35	.125	300	.0038	**$12.50**
193-3	.41	.188	250	.0050	**$6.80**
193-4	.48	.250	200	.0058	**$6.50**
193-6	.60	.375	150	.0079	**$7.55**
193-8	.75	.500	150	.0015	**$12.50**
193-10	.87	.625	150	.0138	**$13.75**

STRATOFLEX 646/640 45° ELBOW FLARED FITTINGS FOR 111 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
646-4S	.250	7/16-20	**$202.95**
646-6S	.375	9/16-18	**$275.95**
646-8D	.500	3/4-16	**$340.00**
646-10D	.625	7/8-14	**$383.00**
640-12D	.750	1-1/16-12	**$450.00**
640-16D	1.00	1-5/16-12	**$918.00**

STRATOFLEX 649/643 90° ELBOW FLARED FITTINGS FOR 111 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
649-4S	.250	7/16-20	**$202.95**
649-6S	.375	9/16-18	**$304.00**
649-8D	.500	3/4-16	**$292.95**
649-10D	.625	7/8-14	**$366.00**
649-12D	.750	1-1/16-12	**$278.95**

STRATOFLEX 676 STRAIGHT FLARED FITTINGS FOR 156 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
676-3S	.188	3/8-24	**$82.75**
676-4S	.250	7/16-20	**$71.75**
676-5S	.312	1/2-20	**$166.75**
676-6D	.375	9/16-18	**$64.75**
676-8D	.500	3/4-16	**$69.75**
676-10D	.625	7/8-14	**$100.75**
676-12D	.750	1-1/16-12	**$107.75**
676-16D	1.000	1-5/16-12	**$329.00**

STRATOFLEX 680 90° ELBOW FLARED FITTINGS FOR 156 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
680-3S	.188	3/8-24	**$316.00**
680-4S	.250	7/16-20	**$162.75**
680-5S	.312	1/2-20	**$359.00**
680-6D	.375	9/16-18	**$316.00**
680-8D	.500	3/4-16	**$249.95**
680-10D	.625	7/8-14	**$256.95**
680-12D	.750	1 1/16-12	**$288.95**
680-16D	1.000	1 5/16-12	**$522.00**

STRATOFLEX 311 STRAIGHT FLARED FITTING FOR 193 HOSE

Part No.	Tube O.D.	Thread	Price Ea.
311-2D	.125	5/16-24	**$49.50**
311-3D	.188	3/8-24	**$35.50**
311-4D	.250	7/16-20	**$29.70**
311-6D	.375	9/16-18	**$48.50**
311-8D	.500	3/4-16	**$81.75**
311-10D	.625	7/8-14	**$201.95**

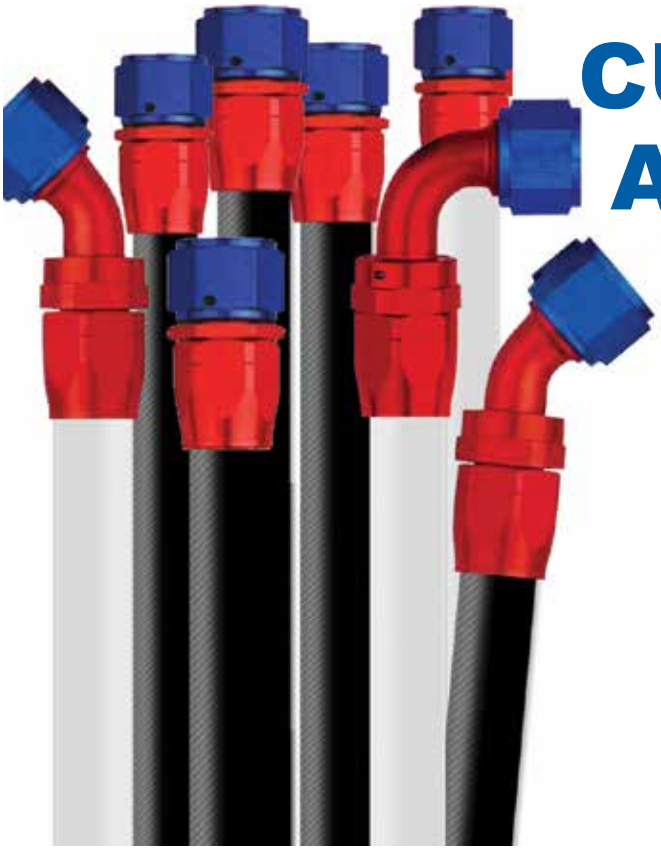
STRATOFLEX 2650 FIRESLEEVE

Part No.	Use With Hose No.				*10781-4 Clamp	Price Per Ft.
	124	193	111	156		
2650-6	-4	-	-	-	-	-
2650-8	-6	-3	-	-4	22CR	**$16.50**
2650-9	-	-4	-	-5	22CR	**$17.50**
2650-10	-8	-	-4	-6	22CR	**$18.99**
2650-11	-	-6	-	-	-	-
2650-12	-10	-	-5,-6	-8	22CR	**$21.55**
2650-13	-	-8	-8	-	-	-
2650-14	-12	-	-	-	22CR	**$24.50**
2650-16	-	-10	-10	-10	32CR	**$26.95**
2650-18	-	-	-	-12	32CR	**$29.70**
2650-20	-16	-	-12	-	32CR	**$32.50**
2650-22	-	-	-16	-16	32CR	**$39.50**

STRATOFLEX FIRESLEEVE END DIP

Stratoflex 5027 Room temperature curing cement for Stratoflex Firesleeve. To use, dip each end of firesleeve in accordance with P-104-29 and applicable drawing. Always use current specifications.

P/N 5027 .....**$213.95**



CUSTOM HOSE ASSEMBLIES!

Use our simple online hose order form to select your hose options and easily order online!

Aircraft Spruce & Specialty Co. SINCE 1965

1-877-477-7823

www.aircraftspruce.ca

TWO EATON HOSE SHOPS TO SERVE YOU!

CHANDLER, ARIZONA

Varga Enterprises operated the Eaton hose shop at Chandler Airport for over 50 years until it was acquired in 2015 by Aero Performance, a sister company of Aircraft Spruce. The Chandler facility is an Eaton approved hose shop and an FAA approved repair station, with an experienced team of hose assembly fabricators shipping hundreds of high quality hose assemblies to customers worldwide each week. For best prices and fastest delivery of your hose assembly requirements call 877-4SPRUCE or order online at WWW.AIRCRAFTSPRUCE.CA.

OMAHA, NEBRASKA

Omaha Airplane Supply was a leading Eaton hose shop for over 50 years before being acquired in 2021 by Aero Performance, a sister company of Aircraft Spruce. The Omaha facility is a supplier of a wide variety of Eaton hose assemblies to a number of aircraft OEM's and also furnishes custom hose assemblies aircraft repair shops and aircraft owners worldwide. For best prices and fastest delivery of your hose assembly requirements call 877-4SPRUCE or order online at WWW.AIRCRAFTSPRUCE.CA.

DUCTING

AIRCRAFT FLEXIBLE DUCTING (SOLD IN PRE-CUT LENGTHS)

Dash No.	Inside Diameter	CAT TYPE		SCAT TYPE		CEET TYPE		SCEET TYPE	
		Part No.	Price/Foot	Part No.	Price/Foot	Part No.	Price/Foot	Part No.	Price/Foot
-2A	5/8”	05-29801	**$9.55**	05-29901	**$12.50**	05-30501	**$12.50**	05-30601	**$11.75**
-3	3/4”	05-29802	**$7.75**	05-29902	**$7.95**	05-30502	**$7.50**	05-30602	**$7.55**
-3A	7/8”	05-29803	**$5.50**	05-29903	**$6.65**	05-30503	**$7.90**	05-30603	**$8.99**
-4	1”	05-29804	**$6.50**	05-29904	**$7.95**	05-30504	**$7.95**	05-30604	**$9.50**
-5	1-1/4”	05-29805	**$7.60**	05-29905	**$10.65**	05-30505	**$8.99**	05-30605	**$13.50**
-6	1-1/2”	05-29806	**$13.70**	05-29906	**$9.60**	05-30506	**$10.50**	05-30606	**$13.50**
-7	1-3/4”	05-29807	**$7.90**	05-29907	**$11.75**	05-30507	**$11.80**	05-30607	**$14.50**
-8	2”	05-29808	**$8.99**	05-29908	**$12.50**	05-30508	**$13.50**	05-30608	**$17.50**
-9	2-1/4”	05-29809	**$9.65**	05-29909	**$14.50**	05-30509	**$14.60**	05-30609	**$18.99**
-10	2-1/2”	05-29810	**$10.50**	05-29910	**$15.95**	05-30510	**$14.50**	05-30610	**$18.99**
-11	2-3/4”	05-29811	**$10.80**	05-29911	**$15.90**	05-30511	**$15.90**	05-30611	**$22.80**
-12	3”	05-29812	**$13.50**	05-29912	**$16.50**	05-30512	**$17.50**	05-30612	**$41.50**
-13	3-1/4”	05-29813	**$13.50**	05-29913	**$20.60**	05-30513	**$17.50**	05-30613	**$24.50**
-14	3-1/2”	05-29814	**$13.50**	05-29914	**$20.60**	05-30514	**$18.95**	05-30614	**$26.95**
-15	3-3/4”	05-29815	**$11.90**	05-29915	**$20.65**	05-30515	**$14.50**	05-30615	**$29.70**
-16	4”	05-29816	**$14.80**	05-29916	**$20.65**	05-30516	**$20.60**	05-30616	**$30.50**
-18	4-1/2”	05-29818	**$15.95**	05-29918	**$24.50**	05-30518	**$22.50**	05-30618	**$32.60**
20	5”	05-29820	**$20.65**	05-29920	**$25.95**	05-30520	**$24.50**	05-30620	**$35.55**
24	6”	05-29824	**$15.95**	05-29924	**$27.50**	05-30524	**$25.85**	05-30624	**$39.50**

Available in 3’, 5’, 8’ and 13’ pre-cut lengths. Use basic p/n and add -3, -5, -8, or -13 to complete the part number.

Example: A 3 ft. length of Cat-8 is p/n 05-29808-3.

THERMOID AERODUCT DUCTING (SOLD IN FULL LENGTH)

“CAT” - “CAT” type flexible hot or cold air ducting is extremely lightweight and highly flexible. Short lengths can be joined together to form a continuous length. Made of a single ply black neoprene-impregnated fiberglass with a spiral copper coated steel wire inside and wrapped with fiberglass cord on the outside. Suitable for conveying fumes and air a temperatures from -65° to over 350°F. Not recommended for handling liquids or highly abrasive materials, or for negative pressure applications.

“SCAT” - “SCAT” type ducting has the same type construction as “CAT” except with red silicone rubber impregnation. For use in conducting extremely cold or hot air with temperatures from -65° to over 550°F. Not recommended for negative pressure applications.

“CEET” - “CEET” type ducting has two plies of neoprene-impregnated fiberglass, similar to CAT except wire between plies. For use in hot or cold air applications and for conveying fumes at temperatures ranging from -65° to over 350°F. Not recommended for handling liquids or highly abrasive materials, or for negative pressure applications.

“SCEET” - “SCEET” type ducting has two plies of silicone rubber-impregnated fiberglass, similar to SCAT except wire between plies. Ideal for use in conducting extremely cold or hot air at temperatures from -80° to over 550°F, and for conveying fumes. Not reccomended for handling liquids or highly abrasive materials, or for negative pressure applications.

Dash No.	Inside Diameter	CAT		SCAT		CEET		SCEET	
		Part Number	Price Per 10 Foot	Part Number	Price Per 11 Foot	Part Number	Price Per 10 Foot	Part Number	Price Per 11 Foot
-2A	5/8 *	05-11867	**$265.95 ***	05-11864	**$122.75 ***	05-11888	**$129.75 ***	05-11871	**$274.95 ***
-3	3/4	05-11878	**$108.75**	05-11869	**$148.75**	05-11879	**$147.75**	05-11874	**$219.95**
-4	1	05-11862	**$130.80**	05-11851	**$148.95**	05-11875	**$144.75**	05-11855	**$223.95**
-5	1-1/4	05-11863	**$112.90**	05-11856	**$165.75**	05-12455	**$137.95**	05-11861	**$253.95**
-6	1-1/2	05-12437	**$114.75**	05-11852	**$304.00**	05-12443	**$144.90**	05-11857	**$281.95**
-7	1-3/4	05-12447	**$118.75**	05-12439	**$196.99**	05-12441	**$145.95**	---	---
-8	2	05-12433	**$122.85**	05-11848	**$206.95**	05-12436	**$150.75**	05-11853	**$431.00**
-9	2-1/4	05-12449	**$127.99**	05-11859	**$234.95**	05-12445	**$153.75**	05-11876	**$300.95**
-10	2-1/2	05-12434	**$143.75**	05-11850	**$253.95**	05-12446	**$166.75**	05-11858	**$394.00**
-11	2-3/4	05-12450	**$154.75**	05-11865	**$277.95**	05-12452	**$152.85**	05-11877	**$457.00**
-12	3	05-12438	**$165.75**	05-11849	**$288.95**	05-12435	**$192.90**	05-11854	**$455.00**
-13	3-1/4	05-12459	**$179.75**	05-11868	**$314.00**	05-12453	**$168.75**	05-11881	**$392.00**
-14	3-1/2	05-12458	**$192.90**	05-11872	**$332.00**	05-12456	**$176.75**	05-11880	**$501.00**
-15	3-3/4	05-12463	**$168.75**	05-11887	**$296.95**	05-12462	**$184.75**	05-11889	**$445.00**
-16	4	05-12442	**$205.95**	05-11860	**$372.00**	05-12440	**$231.95**	05-11866	**$568.00**
-18	4-1/2	05-12457	**$174.99**	05-11882	**$403.00**	05-12451	**$215.95**	05-11886	**$620.00**
-20	5	05-12448	**$224.95**	05-11873	**$471.00**	05-12461	**$285.95**	05-11883	**$753.00**
-24	6	05-12454	**$206.95**	05-11885	**$466.00**	05-12460	**$354.00**	05-11884	**$699.00**

*** 5/8 DIAMETER PIECES ONLY COME IN 5 FOOT LENGTHS.**

ALUMINUM FLANGES FOR DUCTING

Made in the USA

Simplify installation of cabin, carb. heat, cabin vent lines. Aluminum flange may be welded or riveted in place. Slip ducting over outlet and secure with clamp. **Discount: 10% On 20; 15% On 50, 20% On 100 (Assorted)**

Ducting Size	Part No.	Price
1”	10350-4	**$18.65**
1-1/4”	10350-5	**$25.75**
1-1/2”	10350-6	**$19.50**
1-3/4”	10350-7	**$24.80**
2	10350-8	**$20.60**
2-1/4”	10350-9	**$25.90**
2-1/2”	10350-10	**$21.50**
2-3/4”	10350-11	**$26.95**
3”	10350-12	**$23.50**

2 INCH ALUMINUM SCAT TUBE INLET

This 2” Scat Tube Inlet is fabricated from 6061 Aluminum with per-drilled 3/32 rivet holes, ready to rivet to baffling.

P/N 05-12782..... **$89.75**

E-A-R-COMPOSITE DAMPING FOAM

ADC-224 is a mid-temperature skin damping composite of 0.25" thick damping foam fixed with 0.005" thick aluminum foil and backed with pressure sensitive adhesive. Used in aircraft for weight efficient damping and to reduce radiated noise. Meets FAR 25.853 (A) for fire resistance.
Furnished in 27" x 48" sheets.

P/N 09-00181 ..... **$304.00 / sheet**

Less 10% discount on 10 or more sheets

3M™ SOUND & VIBRATION DAMPING PANELS

Designed for damping resonant vibrations of thin sheet metal, these panels are pressure sensitive, specially compounded polyurethane damping foam with an aluminum foil backing. The adhesive on the foam is protected by a peel-off paper covering. It is an excellent insulator for conducted heat and is an excellent heat reflector. Fire-resistant and self-extinguishing per FAA test procedure. Excellent moisture resistance. Resistant to most solvents. Easily applied with only hand pressure for a permanent bond even on rough, irregular surfaces. Used extensively in commercial aircraft and highly recommended for metal home builts. Apply to firewall, fuselage — anywhere a vibration problem exists. Wt.4 oz./sq. ft., 1/4" thick. Meets FAR 25.853

3M Sound Damp Panel 6" x 48".....P/N 09-30206 .....**$62.80 ea.**
3M Sound Damp Panel 12" x 48".....P/N 09-30212 ...**$144.75 ea.**
3M Sound Damp Panel 18" x 48".....P/N 09-30218 ...**$311.00 ea.**

Less 15% on 12 or more pieces

ALUMINUM FOIL TAPE

A 2 Mil. (50 micron) high strength aluminum foil coated with an aggressive, high temperature acrylic adhesive system. The foil conforms well to both fibrous and sheet metal ducts, providing an excellent vapor seal. The malleable foil also conforms well around corners and to irregular surfaces. Coated with a special cold weather acrylic pressure sensitive adhesive system which combines superior quick stick at normal temperature with superior low temperature performance below freezing - this is the ultimate in cold weather tapes. Recommended for use at normal and elevated temperatures also. **Applications**: Primarily used for vapor sealing fiberglass ductboard and sheet metal ducts; can also be used on FSK systems.tape described above.2" x 25 Yd. Roll.

Description	Part No.	Price	Description	Part No.	Price
1"X 25YD	09-01273	**$24.50**	4"X25 YD	09-01275	**$64.80**
2"X 25 YD	09-01274	**$29.70**			

TEFLON CHAFE TAPE

The T-300 is a Milky/Clear Teflon Chafe Tape that has an adhesive backing on one side. It is sold in a 1" x10' Package and is used between Aluminum Skins as a chafe tape.

P/N 05-11196 .....**$40.75**

TEFLON ANTI-CHAFE TAPE

ISD Chafe Tape is a durable Teflon material with a pressure sensitive adhesive which resists solvents, and oils. Designed specifically to prevent aluminum chafing between airframes and engine cowls. It helps prevent black streaking on aircraft exterior due to cowl chafing. Not FAA/PMA approved. Operable temperature range: -100°F to +500°F. Width: 1". Roll length: 6 yds. Tkns: .012" ..P/N 09-31805 .... **$78.75/roll**

TEFLON COATED FIBERGLASS ANTI-CHAFE TAPE

These 1' wide rolls of Teflon on fiberglass anti-chafe tape are excellent for use on engine cowlings to keep cowl components from chafing. The tape is available in 5 mil thick and 10 mil thick and comes with a silicone adhesive on the tape. Just peel back liner and install. Rolls are 1" wide x 36 yds long.

5 Mil Anti-Chafe tape .....P/N 05-01024 .... **$93.75/roll**
10 Mil Anti-Chafe tape.....P/N 05-01025 .. **$133.75/roll**

UNI-WRAP SILICONE TAPE

RUBBER SELF-BONDING TAPE

UniWrap silicone rubber sealing tape bonds to itself permanently to protect, repair, join, or insulate virtually any type of part on which ordinary tape can be used. But the big difference between UniWrap and ordinary tape is that it fuses to itself permanently to form a homogenous mass and provides unprecedented protection and insulating characteristics. UniWrap uses no adhesives so it is non-tacky. It has a 12 month shelf life and after fusing is unaffected by moisture, cold, heat, ozone shock, or vibration. Meets MIL-I-46852 Type II as well as strict aerospace industry performance requirements. Available in red, black, gray, or white. Furnished in 10 yard rolls, UniWrap is 1" wide and 0.020" thick UniWrap.

Red .....P/N 09-30450 .....**$25.70**
Black.....P/N 09-05692 .....**$23.50**

NOXUDOL SOUNDPROOFING LIQUID

A paint-on soundproofing material that is applied to metal surfaces to reduce vibration and reverberant noise. Use to fill cracks and spaces where noise can enter. Buff color and can be painted. Paint engine mounts to increase fire resistance! Odorless and non-toxic when dry. Waterbased product. Non-Flammable. Shelf life: 1-year. Not FAA approved.

Gallon .....P/N 09-00772 .....**$255.95**

SUPER SOUNDPROOFING TAPE

This is a 1/8" thick by 2" wide self adhesive tape that can be placed on metal panels and wrapped around ducts to reduce vibration and reverberant noise transfer. Not FAA approved. 30 ft. rolls.

1" wide.....P/N 09-00381 .....**$11.95/ea.**
2" wide.....P/N 09-42745 .....**$32.80/ea.**
4" wide.....P/N 09-00433 .... **$89.75/roll**

SUPER SOUNDPROOFING FLOOR MAT

This heavy duty, wear resistant vinyl mat with foam backing can be placed on aircraft floors to reduce noise & vibration. 48" width

Without foam backing .....P/N 09-42751 . **$22.95/lin.ft.**

HOW TO SOUNDPROOF LIGHT AIRCRAFT

Sound measurement indicates that sometimes the noise levels are so high in some aircraft that damage to hearing over time can result. This "How-To" manual discusses the advanced techniques to sound proofing the light aircraft and drastically reducing such noise. Information presented is applicable to all types of planes from "puddle-jumpers" to jets .....P/N 09-42755 ..... **FREE**

SUPER SOUNDPROOFING SHEET WITHOUT ADHESIVE

This material is excellent for reducing noise levels in all types of certificated and homebuilt aircraft. It is a closed cell vinyl insulating material which will not absorb water or oil. Has fire retardant qualities and meets FAR 25.853a Appendix F, Pt1. It is smooth on one side for easy attachment to the inside cabin skins, sides, top and front firewall. Excellent for helicopters as well. Furnished in bulk 48" wide sheet, it is easily cut by scissors and attached with contact cement. Available in black only.

Note: this material is priced and sold per foot.

The Flammability Report (Burn Certs) are available on request.

Thickness	Wt. / Lineal ft.	Part Number	Price
1/8"	.25 lbs.	09-42719	**$17.50**
1/4"	.60 lbs.	09-42720	**$17.50**
3/8"	.80 lbs.	09-42723	**$25.55**
1/2"	1.0 lbs.	09-42725	**$34.50**
3/4"	1.4 lbs.	09-42727	**$43.55**
1"	2.0 lbs.	09-42730	**$40.75**
1-1/2"	3.0 lbs.	09-72731	**$68.75**
2"	4.0 lbs.	09-42760	**$67.75**

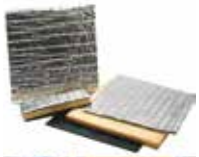
SUPER SOUND PROOF WITH ADHESIVE

Super Soundproofing Foam Mat for noise control: A closed cell vinyl-nitride noise control FOAM suitable for application to cars, boats, planes, home and office, anywhere a noise control mat is needed. Won't absorb moisture or odor, long lasting and durable. An excellent thermal insulator! (FAA Approved for aircraft, too!) Just apply with vinyl or contact cement to reduce and absorb sound. There may be small variances in the width of this product.

1/8" w/adhesive .....P/N 09-01243 .....**$13.70**
1/4" w/adhesive .....P/N 09-01244 .....**$20.60**
3/8" w/adhesive .....P/N 09-00443 .....**$25.60**
1/2" w/adhesive .....P/N 09-00444 .....**$32.75**
3/4" w/adhesive .....P/N 09-01245 .....**$45.50**
1" w/adhesive .....P/N 09-01246 .....**$67.75**
2" w/adhesive .....P/N 09-01247 .....**$75.75**

AP

SEE THE ENGINE PARTS SECTION OF THE CATALOG FOR MORE INSULATION PRODUCTS!



SOUNDEX PREMIUM AIRCRAFT SOUNDPROOF AND MATERIALS PACKAGES

SoundEx™ is a premium aircraft soundproofing / insulation that incorporates excellent vibration damping and noise absorption properties. SoundExTM is a superior product compared to other products on the market because of its thermal qualities, adds less weight to aircraft (6.11oz. per sq. ft. for 1" thickness and 5.8 oz. per sq. ft. for 3/4" thickness), and affordability. Stop the yelling and make flying fatigue a thing of the past. Improve your quality of flight with SoundExTM.

Decibel Reduction Data - Decibel reductions will vary depending upon how well your aircraft is currently insulated. Our latest data indicate that you should expect noise level reduction from 4-7 dB(a) and 10-15 dB(c). From singles and light twins to corporate jets, SoundEx™ is the noise reduction option of choice. Pilots and passengers can fly and communicate in comfort.

Flammability Requirements - All materials are manufactured to meet requirements for FAR 23:856 / FAR 25:856 Part II. Aircraft specific testing may be required for return to service.

No.	Aircraft Model	Basic Materials (sidewall above floor/roof)		Deluxe Materials (basic + floor/belly)		SX-250 Footage (black mat for under carpet)
BEECHCRAFT						
SX-01	Bonanza 35-E35	05-04256	**$1,480.00**	05-04256-1	**$2,115.00**	N/A
SX-02	Bonanza F35-M35	05-10770	**$1,481.00**	05-10770-1	**$2,104.00**	N/A
SX-03	Bonanza N35-P35, C33-E33, and F33C (and older with long 3rd window added)	05-04312	**$1,196.00**	05-04312-1	**$1,830.00**	N/A
SX-04	Bonanza/Baron S35-V35/F33/A55-B55 (and older with large baggage and long 3rd window added)	05-04313	**$1,480.00**	05-04313-1	**$2,117.00**	N/A
SX-05	Bonanza/Baron F33-G33 and B55-E55 (with extended baggage)	05-04314	---	05-04314-1	**$2,097.00**	N/A
SX-06	Bonanza/Baron 36-A36 and B58 (through 1978	05-04315	**$1,767.00**	05-04315-1	**$2,428.00**	N/A
SX-07	Bonanza/Baron A36-B36 and B58 (1978 and newer) (with extended baggage)	05-04316	**$2,341.00**	05-04316-1	**$3,013.00**	N/A
SX-08	Bonanza 33/35/36 Windsh/d set (without factory speedslope) Includes upper material forward of instrument panel	05-04317	**$337.00**	N/A	N/A	N/A
SX-09	Bonanza 33/35/36 Windsh/d set (with factory speed-slope) Includes upper material forward of instrument panel	05-04318	**$323.00**	N/A	N/A	N/A
SX-10	Duke	05-04319	**$2,959.00**	N/A	N/A	**9 ft.**
CHEYENNE						
SX-42	Cheyenne I & II	05-07161	**$3,816.00**			
KING AIR 90						
SX-44	King Air 90	05-07158	**$5,316.00**	N/A	N/A	-
KING AIR 300 COMING SOON						
*Ensure you order the correct Bonanza Materials by checking the following modifications: • Bonanza 35-E35 with tiny 3rd window modification, order Materials for F35-M35. • Bonanza 35-M35 (or A33-B33) with large third window and hat shelf modification, order Materials for N35-P35. • Bonanza 35-P35 (or A33-E33) with large third window and expanded baggage modification, order Materials for S35-V35B.						
PIPER						
SX-11	Comanche PA24/ PA30 (through 1963) (*Floor not drilled for access)	05-04320	**$1,761.00**	05-04320-1	**$2,337.00**	N/A
SX-12	Comanche PA24/ PA30 (1964 and 1965)	05-04321	**$1,757.00**	05-04321-1	**$2,337.00**	N/A
SX-13	Comanche PA24/ PA30 (1966 and newer)	05-04322	**$1,757.00**	05-04322-1	**$2,283.00**	N/A
SX-14	Early Arrow, Cherokee, Warrior PA28-160, 180, 235	05-04323	**$1,477.00**	N/A	N/A	**9 ft.**

No.	Aircraft Model	Basic Materials (sidewall above floor/roof)		Deluxe Materials (basic + floor/belly)		SX-250 Footage (black mat for under carpet)
PIPER CONT.						
SX-15	Arrow, Cherokee, Warrior PA28-160, 180, 235	05-04324	**$1,481.00**	N/A	N/A	**9 ft.**
SX-16	Cherokee Six, Seneca, Lance, Saratoga PA32, PA34	05-04325	**$2,341.00**	N/A	N/A	**11 ft.**
SX-18	Navajo	05-04327	**$4,124.00**	N/A	N/A	**12 ft.**
SX-34	Aztec	05-04329	**$2,342.00**	N/A	N/A	**13 ft.**
TOMAHAWK						
SX-29	Tomahawk	05-07159	---	N/A	N/A	-
CESSNA						
SX-35	150	05-04330	**$1,161.00**	N/A	N/A	**6 ft.**
SX-36	152	05-04331	**$1,161.00**	N/A	N/A	**6 ft.**
SX-24	170	05-04332	**$1,445.00**	N/A	N/A	**8 ft.**
SX-20	172	05-04333	**$1,473.00**	N/A	N/A	**8 ft.**
SX-32	177, 177 RG	05-04334	**$1,764.00**	N/A	N/A	**9 ft.**
SX-37	180/185	05-04335	**$1,448.00**	N/A	N/A	**8 ft.**
SX-21	182 (except earliest without rear window)	05-04336	**$1,501.00**	N/A	N/A	**8 ft.**
206	Coming Soon!					
SX-22	210 (except earliest without rear window)	05-04337	**$1,775.00**	N/A	N/A	**8 ft.**
SX-23	310 (without rear window)	05-04338	**$2,340.00**	N/A	N/A	**10 ft.**
SX-24	310	05-04339	**$2,341.00**	N/A	N/A	**10 ft.**
SX-26	337, 337P	05-04340	**$2,353.00**	N/A	N/A	**8 ft.**
SX-25	340	05-04341	**$3,253.00**	N/A	N/A	**12 ft.**
SX-33	414A	05-04342	**$3,812.00**	N/A	N/A	**13 ft.**
COMMANDER						
SX-43	112/114	05-06834	---	N/A	N/A	**8 ft.**
MOONEY						
SX-27	M20 to M20E	05-04344	**$1,296.00**	N/A	N/A	**6 ft.**
SX-28	M20F to M20K	05-04345	**$1,612.00**	N/A	N/A	**7 ft.**
M20L to M20S Coming Soon!						
NAVION						
SX-31	A, B	05-04346	**$2,066.00**	N/A	N/A	N/A
VAN'S RV (EXPERIMENTAL)						
SX-30	RV-8 (Firewall, Sidewalls, Belly)	N/A	N/A	05-04349-1	**$1,651.00**	N/A
SX-40	RV-10 Firewall Sidewalls, Belly	N/A	N/A	05-04350-1	**$2,551.00**	N/A
BULK MATERIAL						
SX-1000	1-1/8" x 36" x 48" SoundEx Sheet			05-04353	**$332.00**	**per sheet**
SX-750	7/8" x 36" x 48" SoundEx Sheet			05-04354	**$323.00**	**per sheet**
SX-600	3/4" x 36" x 48" Black Mat			05-04357	**$213.95**	**per sheet**
SX-500	1/2" x 48" Black Mat			05-04358	**$60.75**	**per roll ft.**
SX-250	1/4" x 48" Black Mat			05-04359	**$43.99**	**per roll ft.**
SX-125	1/8" x 36" x 48" Black Mat			05-04360	**$56.75**	**per sheet**
SXT-200	2" Aluminum Foil Tape			05-04364	**$35.50**	**per roll ft**
SX-1357	SoundEx Glue			05-04365	**$13.50**	**per 6oz. tub**

INSULATION MATERIALS

THE INSULATOR
AIRCRAFT INSULATOR MATERIAL

The Insulator is one of the finest sound proofing and thermal insulation materials available, and will last the life of the aircraft. The dual sided Insulator panels are ideal for installation on interior skin, floor, engine covers, doors, headliners, and bulkheads. The Insulator uses multi - layered fiber plys bonded to reinforced high performance foil to provide optimum barrier to acoustics, radiant heat, thermal heat, and moisture. Insulator is available in 4'x 6' panels or by the lineal foot (4' wide). Install Insulator with Sticky Stuff spray adhesive (shown below) and Insul-Tape. Not FAA approved.

INSULATOR PANELS

Insulator – one ply 4' x 6' sheet. Single sided only.
3/8" thick.....P/N 09-27400 .....**$34.50 ea**

Discount: less 15% on orders for 20 sheets (assorted)

INSULATOR BY THE FOOT

Single side foil, single layer #6014; 4 ft. wide. Max Temp: 200°F
P/N 09-06014 ..... **$5.40 /ft.**
Double side foil, single layer #6016; 4 ft wide. Max Temp: 200°F
P/N 09-06016 ..... **$8.50 /ft.**

Discount: less 15% for 100 ft. (per P/N)

TICKY STUFF ADHESIVE

Stick Stuff is one of the best performing spray adhesives available. It is ideal for installing the Insulator and has many other uses. One spray can will install two 4' x 6' panels.
P/N 09-27415 .....**$17.50/ea.**

INSULATION TAPE

Insulation Tape. This item is a commercial version of the government specification Mil-P-15280. It is an adhesive backed tape with a smooth upper surface.

Size	Part No.	Price
1/8"X1"X30ROLL	05-11197	**$85.75**
1/8"X2"X30ROLL	05-11198	**$159.75**
1/8"X1/4"X10ROLL	05-11199	**$42.50**
1/8"X1/2"X30ROLL	05-11200	**$60.75**

BLANKET IN-A-BOX

Insulating your aircraft made easy! Blanket is ready to install as is or can be modified to fit special areas. Each box contains all the materials to insulate your aircraft including an Orcotek strip blanket, tape, cutting knife, instructions and built-in work surface with measuring grid.
Furnished as follows:
1" blanket-in-a-box contains 1 roll (1"x20"x100') Orcotek strip blanket, 2 rolls of Orcotape OT-16A (2"), utility knife, dispenser box-work platform.
P/N 09-45005..... **$4,134.00/box**
2" blanket-in-a-box contains 1 roll (2"x20"x50') Orcotek strip blanket 1 roll of Orcotape OT-16A (3"), utility knife, dispenser box/work platform.
P/N 09-45010 **$4,037.00/box**

3M 361 GLASS CLOTH TAPE

Constructed with a woven fiberglass backing, 3M™ Glass Cloth Tape 361 features a pressure sensitive silicone adhesive for applications requiring high-temperature resistance, high adhesion and clean removal. It is often used for high temperature applications such as sealing ducts and as a back-up strip for submerged arc welding.
Colors: White. 60 yd. roll..P/N 09-05773 .....**$152.85**

CONTEGO FIRE BARRIER LATEX PRIMER
-THE FIRE STOPS HERE-

Contego protects most building materials from the ravages of fire. Contego intumescent fire barrier products are all non-toxic, non-dermatic, and safe for pets. When exposed to fire, Contego fire retardant coatings expand to form a tough char barrier fire cannot penetrate. Deprived of fuel, the fire quickly dies. Contego not only helps prevent fires, it minimizes deadly smoke production, one of the leading causes of fatalities in residential and commercial fires. Intumescent fire barriers are nothing new, but Contego Passive Fire Barrier Latex represents a quantum leap forward in terms of quality, versatility, affordability and fire safety-all in one truly impressive fire proofing product.
Size: Quart .....P/N 05-02615 .....**$43.55**

INSULATION REPAIR & FABRICATION TAPE

Orcotape OT-16A is a lightweight, pressure sensitive, reinforced, metallized polyvinyl fluoride tape which is designed to be used in the fabrication, repair & installation of thermal/acoustic blankets. It is the companion tape to be used with the Orcotek strip blanket to seal the edges. Furnished in 60yd rolls.
2" width.....P/N 09-04565 ...**$358.00/ea.**
3" width.....P/N 09-04566 ...**$608.00/ea.**

ORCOTEK STRIP BLANKET

Aircraft insulation by the foot. This durable, state-of-the-art, light weight blanket meets the thermal and acoustic requirements of the major aircraft manufacturers and is now available for your airplane. The blanket consists of fiberglass enclosed in moisture barrier. It can be used as is or cut in special shapes. Use Orcotape OT-16A 2" or 3" tape to seal the open edge(s) of the blanket. Strip blanket available in 1" thick x 20" wide or 2" thick x 20" wide. Complete 50ft rolls available.
2" thick x 20" wide ..... P/N 09-45020.....**$68.80/linear ft.**

FIBERGLASS INSULATION BLANKET

Ultra-light FAA compliant Thermal/Acoustic Insulation by the foot. The blanket consists of a covering film qualified to Boeing Material Spec. (BMS) BMS8-377 Ty I & II, Cl 1 and fiberglass qualified to BMS8-48 Ty III, Cl 2, Gr A.
These materials meet the FAR25.856(a) flammability regulations as required per the BMS and are available in 1 " or 2" thickness. The generic blanket can be cut to shape and edges sealed with BMS5-157 Ty 1, Cl 1 2 or 3, Gr A, Form 1 Tape. Complete 50ft. rolls available.
1" X 20".....P/N 09-04520 .....**$35.50**
2" X 20".....P/N 09-04521 .....**$41.50**

3M™ INTERAM CERAMIC BLANKET 49 INCHES BY 25 FEET

3M Interam Mat I-10A, 49 inches by 25 feet (one roll): Ceramic fiber based material that expands into low-density insulation blankets when exposed to high temperatures or flames. Outer foil layer is aluminum.
P/N 03-00136 .....**$1,073.00**

VALCO CINCINNATI MULTI-PURPOSE SEALANT

Valco Cincinnati multi-purpose sealant is a paste-like, one component material that cures to a tough, rubbery solid upon exposure to moisture in the air. This sealant can be applied overhead or on sidewall joints and surfaces without sagging, slumping or running off. It adheres to clean metal, glass, most types of wood, silicone resin, vulcanized silicone rubber, ceramic, natural and synthetic fiber, and painted and many plastic surfaces.
Effective to -46°C (-50°F). Fully cured Valco multi-purpose sealant can be used for extended periods at temperatures up to 204°C (400°F), and for shorter periods as high as 218°C (425°F)
3 oz. tube.....P/N 09-00277 .....**$11.80**
11.17 oz. tube.....P/N 09-00278 .....**$26.95**

VHT FLAMEPROOF COATINGS

Originally designed for NASA's reentry spacecraft, VHT FlameProof is a scientifically formulated compound designed to withstand temps. up to 1500°F (816°C) VHT It survives where other paints can't, shields & protects, maintains the finish, prevents rust & corrosion, and resists oils & solvents. For aircraft applications the typical use is on high temperature steel components such as exhaust & turbocharging systems. Excellent for use as a heat resistant & anti-corrosion coating on exhaust manifolds and turbine casings. Both Flat Aluminum and Flat Black are non-facing colors.

Flat Aluminum 16 oz. aerosol spray.....P/N 08-00713 .....**$28.50**
Flat Black 16 oz. aerosol spray.....P/N 08-00714 .....**$26.95**

AP

BAFFLING MATERIAL

FIBERFRAX

A new material made from washed ceramic fibers with binders added to form a lightweight, flexible asbestos-free insulation. Withstands temperatures to 2300° F. Excellent for aircraft firewalls. Available in 24" wide rolls in 1/16" and 1/8" thicknesses.

1/16" Thick .....P/N 05-02678 **$17.50 Lin ft.**
1/8" Thick .....P/N 05-02679 **$30.50 Lin ft.**

Discount Less 15% On 50 ft. Per Size

FIBERFRAX HI TEMP COATING

Used as a hi temp coating over Fiberfrax, or other porous materials. Can also be used as an adhesive to bond Fiberfrax or other porous material together. Coverage: 15 sq. ft. per pint & 120 sq. ft per gallon.

Pint .....P/N 05-00800 ..... **$43.85**
Gallon .....P/N 05-00900 ..... **$330.00**
5 Gallon Pail.....P/N 05-00910 ..... **$1,654.00**

NEOPRENE BAR

Neoprene bar of proper Shore hardness for fabrication of shock absorber donuts. Used in Osprey II nose gear. Available in 2 sizes:

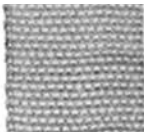
1/2" Th x 2" W .....P/N 05-02000 ..... **$53.75/ft.**
3/4" Th x 3" W .....P/N 05-02100 ..... **$29.70/ft.**

RUBBER SHEET PACKING

Will not deteriorate in petroleum products. Recommended for oil and solvent service. Wt. 6 oz. per sq. ft. 1 Size: 1/16" thick x 36" wide roll. Sold in 36" 1 width only. Price is per Lin. Ft ...P/N 05-01000 .....**$10.50**

Discount: Less 15% On 20 Ft.

HEAT-PROOF TAPE



Heat-proof and fire resistant. Made of woven fiberglass. Non-metallic, commercial grade. Withstands up to 1000°F. 2" wide x 1/16" thick. Wt. 4-1/2 lbs. per 100 ft. roll. .....P/N 09-31500 ..... **$1.32/ft.**

Less 15% On 100 ft.

FIREWALL 2000 CERAMIC BLANKET

This blanket has been known to be flexible enough to cover compound curves. The heat side of the blanket is covered with stainless steel, the other side is aluminum It is easy to rivet or can be glued into position. Sold by the running foot. Temp. range up to 1000F. 24 inch wide. Note: There is a stainless steel sheet glued on to one side for extra protection. Tech Data Sheet does not include any info on this extra steel sheet.

P/N 05-00948 .....**$45.50**

Less 15% on 25ft. roll

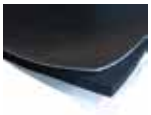
3M™ FIRE BARRIER 2000

A premium nonslump sealant bonds to most common construction material to form a flexible seal. Superior Adhesion. Remains elastomeric and is weather resistant. This product is great for through penetrations and may also be used for fire rated construction joints.....P/N 05-00949 .....**$53.75**

FIREWALL 2000 KIT

Contains 24"x48" sheet of Firewall 2000 and one tube of firewall caulk .....P/N 05-00950 .....**$229.95**

FIREWALL BLANKET



Firewall blanket is black in color. Note: This material is used for cosmetic purposes on the inside portion of a firewall to cover up an unsightly firewall. It is not fireproof and is not an actual firewall material. The maximum sheet size is 36" x 48"

36" x 48" sheet.....P/N 09-00276 .....**$198.75**
24" x 48" sheet.....P/N 09-00276-2 .....**$144.85**
12" x 48" sheet.....P/N 09-00276-1 .....**$89.75**

KOOLMAT HEAT BARRIER

A .070 thick fiberglass textile cured to a 1/8" silicone substrate. The latter providing a good wear resistant surface. Can be used on steel, aluminum, fiberglass, wood and plastic surfaces. It is good to temperatures up to 1000° F and reduces cockpit heat up to 75%. Contains no asbestos. Can be used to insulate cowl and firewall forward area. (Not used on exhaust) Color: gray on top side (silicone) and white woven cloth (fiberglass). Wt: .72 lbs. per sq. ft. Sold in 30" width by the lineal foot.

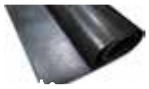
Gray.....P/N 09-24730..... **$53.75/lin ft.**

ENGINE BAFFLE TEXTURED FINISH

FAA approved replacement Engine Baffle. This material is easily identifiable by its textured finish. 32oz fiberglass reinforcement mat. Boasts a -60 to 550°F range.

Color	Size	Part No.	Price	Size	Part No.	Price
Black	1/8" x 3" x 9'	05-04656	**$168.75**	1/8" x 36" x 40"	05-04657	**$366.00**
Red	1/8" x 3" x 9'	05-04658	**$223.95**	1/8" x 36" x 40"	05-04659	**$414.00**
Blue	1/8" x 3" x 9	05-04660	**$223.95**	1/8" x 36" x 40"	05-04661	**$408.00**

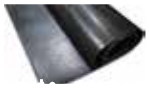
NEOPRENE COATED PYROGLASS CLOTH



This neoprene coated cloth is designed for applications where its superb heat and flame resistance provide an extra margin of protection for people and equipment. Self-extinguishing, it is used as aircraft firewall barriers, protective sleeves and tadpole tape covers, flat seals, gaskets, mounts and door seals. It is ozone and weather resistant, and can be used against caustics, gasoline, oil, water and steam. It does not support combustion and will operate in continuous temperatures from -40°F to +200°F. Thickness .070". Sold in 60" Width only.

P/N 05-00600 .... **$114.75 ft.**

PRE-CUT PYROGLASS CLOTH BAFFLE STRIP



Cut from Pyroglass cloth above.

3"x 84 .....P/N 05-00700 .....**$39.99**

COWL SAVER BAFFLE SEAL MATERIAL

05-03405

Cowl Saver™ Baffle Seal Material has 10 times Less Friction! - One side is silicone and the other is the revolutionary friction free surface unique to the patent pending Cowl Saver™. Cowl Saver™ dramatically reduces the friction between your cowl and baffle seals.

Low Friction Saves You Money! - Reduces transfer of damaging engine vibration to the engine cowl Minimizes cowl chaffing and erosion from baffle seals. Extends baffle seal life. Reduces expensive cowl and cowl fastener repairs. Reduces fatigue and cracking in aluminum baffles and cowl skins.

The cowling even goes on easier! - Unbeatable Performance. Ideal balance of flexibility and stiffness to insure a proper seal. Fiberglass reinforced. Meets industry standard AMS3320G specification. McFarlane quality you can count on! Not FAA-PMA approved.

Part Number	Thickness	Size	Color	Spruce	Price
CS085X36X36G	.085"	36" x 36"	Gray	05-03403	**$260.95**
CS085X18X36G	.085"	18" x 36"	Gray	05-03404	**$146.75**
CS085X3X108G	.085"	3" x 108 "	Gray	05-03405	**$72.75**

ACCESSORIES

6036 BAFFLE SEAL RETAINER STRIP - A baffle seal retainer strip used as a retainer for riveting baffle seals to baffles. 7/16 inch x 12 inch strips - Cut to desired length during installation.....P/N 05-03399 .....**$3.70**

RIVET KIT 2 - A baffle seal rivet kit containing soft Mil-Spec rivets that will not deform the baffles. Several sizes are included for various baffle thickness and hole sizes.....P/N 05-03401 .....**$37.95**

BAFFLE-KIT- 2 - This new baffle kit with more material. This kit is best for larger aircraft or curved baffle seals that cannot be cut from three inch strips. The new kit includes (1) 18x36 inch piece of Cowl Saver™ material, (2) Baffle Seal Rivet Kits and (10) Baffle Seal Retaining Strips.....P/N 05-04108 .....**$504.00**

INSPECTA-SHIELD
FIRE RETARDANT PENETRANT

Inspecta-Shield is a durable, non-toxic, fire retardant chemical penetrant which when cured and dried, is odorless and colorless. Will retard flame in materials such as fabrics, poly foam, paper, and wood. Will generally last for the life of the product to which it has been applied. Inspecta-Shield is environmentally compatible and will protect surfaces up to 2,200°. These surfaces will retain their color and resist sun rot up to 50% longer. A Class A rated flame retardant that meets F.A.R. 25.853 (a & b). 1qt. spray bottle will treat an area of 150 sq. ft. Can be applied with most garden and household sprayers.

Note: Inspecta-Shield is corrosive to aluminum and other metals. If it comes in contact with metals be sure to wipe off metal and clean thoroughly.

Quart.....P/N 09-05760 ..... **$28.50**
Gallon .....P/N 09-00274 ..... **$100.75**

SEE THE ENGINE PARTS SECTION OF THE CATALOG FOR MORE INSULATION PRODUCTS!

SILICONE BAFFLE SEALS

Excellent for replacement of baffle seals. It exceeds asbestos type seals in durability and flexibility over its entire operating heat range of -80 F to +425 F..
Available in red, blue & black.

IRON OXIDE RED - Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3320 (PN 05-00770, 05-00771-3, 05-00771) AMS3303 for all others.
3/32" thick x 3" wide x 9' long ..... P/N 05-00775 ..... **$67.75**
3/32" thick x 36" wide ..... P/N 05-00781 ..... **$77.75/ft**
3/32" thick x 3" wide ..... P/N 05-00781-3 ..... **$7.55/ft**
1/8" thick x 2" wide x 9' long ..... P/N 05-00795 ..... **$54.75**
1/8" thick x 3" wide x 9' long ..... P/N 05-00755 ..... **$85.75**
1/8" thick x 4" wide x 9' long ..... P/N 05-00760 ..... **$111.75**
1/8" thick x 36"wide ..... P/N 05-00772 ..... **$151.75/ft**
1/8" thick x 2" wide ..... P/N 05-00772-2 ..... **$6.50/ft**
1/8" thick x 3" wide ..... P/N 05-00772-3 ..... **$9.50/ft**
1/8" thick x 4" wide ..... P/N 05-00772-4 ..... **$12.50/ft**
1/8" thick x 3"W x 9' w/ fiberglass insert ..... P/N 05-00770 ..... **$130.75**
1/8" thick x 36"W w/ fiberglass insert ..... P/N 05-00771 ..... **$140.75/ft**
1/8" thick x 3" wide w/ fiberglass insert ..... P/N 05-00771-3 ..... **$14.50/ft**
LIPSTICK RED - Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303.
3/32" thick x 36" wide ..... P/N 05-00786 ..... **$55.90/ft**
3/32" thick x 3" wide ..... P/N 05-00786-3 ..... **$4.85/ft**
DARK BLUE - Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303.
3/32" think x 3" wide x 9' long ..... P/N 05-03055 ..... **$47.85**
3/32" thick x 3" wide ..... P/N 05-01831-3 ..... **$5.35/ft**
3/32" thick x 36" wide ..... P/N 05-01831 ..... **$40.75/ft**
BLUE - Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303.
3/32" thick x 3" wide x 9' long ..... P/N 05-00790 ..... **$57.75**
3/32" thick x 36" wide ..... P/N 05-00806 ..... **$81.75/ft**
3/32" thick x 3" wide ..... P/N 05-00806-3 ..... **$6.50/ft**
1/8" thick x 3"W x 9' w/ fiberglass insert ..... P/N 05-00792 ..... **$211.95**
1/8" thick x 36"W w/ fiberglass insert ..... P/N 05-00791 ..... **$99.75/ft**
1/8" thick x 3" wide w/ fiberglass insert ..... P/N 05-00791-3 ..... **$23.50/ft**
BLACK - Meets Mil Spec ZZR765B. ISR3 meets Mil Spec AMS3303 (PN 05-00810, 05-00811, 05-00811-3) AMS3320 for all others.
3/32" thick x 3" wide x 9' long ..... P/N 05-00810 ..... **$66.75**
3/32" thick x 36" wide ..... P/N 05-00811 ..... **$79.75/ft**
3/32" thick x 3" wide ..... P/N 05-00811-3 ..... **$7.50/ft**
1/8" thick x 3"W x 9' w/ fiberglass insert ..... P/N 05-00826 ..... **$95.75**
1/8" thick x 36"W w/ fiberglass insert ..... P/N 05-00825 ..... **$145.95/ft**
1/8" thick x 3" wide w/ fiberglass insert ..... P/N 05-00825-3 ..... **$10.65/ft**
ASSORTED SILICONE 50 FEET - This is a 50 foot assortment of silicone lengths, thicknesses and colors. ..... P/N 05-04565 ..... **$27.55**

AIRCRAFT BAFFLE SEAL KITS

These pre-cut baffle seal kits are cut to original specifications. Please specify aircraft make, model, serial number, and color of seal. Kits are furnished with rivets, washers, drill bits, & silicone. **P/N 00-00103**
CALL FOR PRICE AND P/N OF KIT FOR YOUR AIRCRAFT or VISIT www.aircraftspruce.cs FOR BAFFLE KIT INFORMATION.

BAFFLE FASTENER KIT

Screw Fastener (Post Type) for joining sides or overlapping of baffle material. Includes one male and one female piece. GB-SF-3/16 8-32 Threads..... P/N 05-01829 ..... **$14.50**

INDIVIDUAL FASTENERS

Male 8-32 Thread ..... P/N 05-01235 ..... **$0.63**
Female 8-32 Thread ..... P/N 05-01236 ..... **$0.63**

COWL SEAL HARDWARE & TOOLS

GB4-4A: Baffle Seal Pop Rivet, Button Head. 1/8" Dia. x 3/16" Grip Requires a metal baffle strip or back-up washer to secure.
Pkg. of 100 ..... P/N 05-56100 ..... **$13.50**
GB-A4: Back-up Washers
Pkg of 150 ..... P/N 05-56130 ..... **$13.80**
GB-SF- 3/16: Baffle Seal Fastener (Post Type) for joining sides or overlapping of baffle material. Includes one male and one female piece. 1/8" NPT.
Each ..... P/N 05-56140 ..... **$1.25**
GB4-3AW: Baffle Seal Pop Rivet, Button Head, White. 1/8" Dia. x 3/16"Grip.
Pkg. of 100 ..... P/N 05-00132 ..... **$10.50**
GBL4-4A: Baffle Seal Pop Rivet, Large Flange, Silver. 1/8" Dia. x .187" - .250" grip range
Qty. 100 ..... P/N 05-00134 ..... **$12.50**
GBL4-4AB - Black Pop Rivet, large flange for black baffle seal 1/8" x 3/16" grip. GBL4-4AB.
Qty 100 ..... P/N 05-00483 ..... **$17.50**
GBL4-3AW: Baffle Seal Pop Rivet, Large Flange, White. 1/8" Dia. x 3/16"Grip
Qty. 100 ..... P/N 05-00135 ..... **$13.75**
Silicone Revolving Punch Tool: Makes various size holes in baffle material.
Each ..... P/N 72 ..... **$16.50**

BLACK COWL SEAL

1/16" x 3" x 9' Cowl & Engine Baffle Seal First quality woven fiberglass cloth heavily impregnated with neoprene for unsurpassed durability.
-40° to 300°. Black. TA-8071. MIL-R-6855.
1/16" x 3" x 9' Roll.... P/N 06-02461 ..... **$72.80**
1 Square Yard ..... P/N 04-02620 ..... **$333.00**

COWLING CHAFE CLOTH

Off-white, 100% non-asbestos woven tape. Unaffected by most chemicals and temperatures.
1" x 15 ft. Roll ..... P/N 09-31800 ..... **$13.75**

GB56 SILICONE ANTI-CHAFE COWL SEAL

The kit includes: 15 Foot Roll with Adhesive, Anti-Chafe Seal and Catalyst, Sold in 15ft. rolls, Gloves, Cement, and Acid Brush.
P/N 05-00664 ..... **$118.75**

A-56-12 COWL CHAFE SEAL 3/4"

Phenolic-cure Nigen Cotton Webbing used on engine cowls to protect where overlapping the airframe. Not affected by cold, heat or most solvent chemicals. 1/16" thick.
P/N 05-11171 ..... **$137.75**

CESSNA COWL CHAFE SEAL

This seal is riveted to the firewall on the Cessna 150, 152, 172, and 182. Meets MIL SPEC: AMS3320-.093 black. 1-1/2" wide x 84" long. Product is not FAA/PMA approved. Please consult your A&P/1A for guidance regarding installation and use on certified aircraft.
P/N 05-04489 ..... **$81.75**

SILICONE BAFFLE

Fiberglass reinforced (VISR) silicone engine baffle seal exceeds the neoprene fiberglass fabric seals in durability and flexibility over its entire operating heat range of -80°F to +425°F. VSR material does not have fiberglass reinforcement.

Model No.	Dimensions	Description	Part No.	Price
VISR3	1/8"x 3"x 9'	Red and Orange	13-18527	**$75.75**
VISR3	1/8"x 3"x 9'	Black	13-18528	**$75.75**
VISR3	1/8"x 3"x 9'	Blue	13-18529	**$60.75**
VISR3640	1/8"x36"x40"	Black	13-18530	**$159.75**
VSR3640	1/8"x36"x40"	Red and Orange	13-18532	**$94.90**
VSR4	1/8"x4"x9'	Red and Orange	13-18533	**$36.60**

FIBERGLASS CLOTH BAFFLE MATERIAL

The same material used by several OEM aircraft manufacturers. Neoprene coated fiberglass cloth is heat & flame resistant, self-extinguishing, ozone & weather resistant, & will not support combustion. Temperature range -40F to +200F. AMS3783.

AMS3783 Black 3in X 9ft Roll ..... P/N 05-12642 ..... **$87.99**
AMS3783 Black 36in X 36in Sheet ..... P/N 05-12643 ..... **$463.00**

SILICONE CEMENT WITH CATALYST

This silicone cement is the same cement that is included with some of the chafe seals and is excellent for attachment of any silicone seal.
Note: GBSC-2 or GBSC-4 silicone cement to apply silicone seals requires silicone cement only for application. Storage & Shelf Life: • Best if refrigerated under 70° • 18 months shelf life when stored properly • Easier to fill
2.5 oz. ..... P/N 05-13310 ..... **$121.75**

AP

PLIOBOND

Pliobond #20 is a viscous, quick setting highly versatile adhesive. Bonds metal; wood, plastics, fabrics; ceramics, glass, vulcanized rubber, paper, leather and concrete. Thin with MEK.

1/2 Pt. Brush Top Can P/N 09-28000 ..... **$19.50**
Pt. Can..... P/N 09-28100 ..... **$40.75**
Qt. Can ..... P/N 09-28200 ..... **$52.75**

PLIOBOND 25 LV

Pliobond #25 LV is a viscous, quick setting highly versatile adhesive. Bonds metal; wood, plastics, fabrics; ceramics, glass, vulcanized rubber, paper, leather and concrete. Thin with MEK.

1/2 Pint ..... P/N 09-03812 ..... **$25.55**
Pint ..... P/N 09-03813 ..... **$47.99**
Quart..... P/N 09-03814 ..... **$68.75**

PLIOBOND 30

PLIOBOND 30 is a general purpose thermosetting adhesive, it provides tough, chip resistant bonds that remain flexible over a wide temperature range; excellent resistance to mechanical shock, oxidation, fungi, mold and bacteria. Typically used as a sealer, primer, water repellant, or coater.

1/2 Pint Top Can. ..... P/N 09-04669 ..... **$22.80**

PLIOBOND 35

For seaming, splicing and bonding of gaskets, rubber matting, belts and hose to rubber, wood, metal, some plastics, glass and fabrics and to themselves. Provides permanent, flexible bonding. Can be brushed, spread or roller coated. Will not get hard or brittle with age and resists most acids, oil, gasoline, grease, water and salt.

P/N 09-04670 ..... **$29.70**

DOW CORNING® 730 FS SOLVENT RESISTANT SEALANT

Dow Corning®730 FS Solvent Resistant Sealant is a ready-to-use, solventless, nonslumping fluorosilicone rubber paste that reacts with moisture in the air to form a tough, rubbery solid. It is a fluid-resistant material that is ideally suited for use in many applications where resistance to fumes, splash, and sometimes even total immersion in fuels, oils and solvents is needed. Dow Corning 730 FS Solvent Resistant Sealant features good resistance to weathering, vibration, moisture, ozone, and temperature extremes. It retains its flexibility over a wide temperature.....3 oz. tube ..... P/N 09-00383 ..... **$243.95**

DOW SILASTIC RTV

General-purpose single-component silicone rubber. Adheres to metals, glass, paint, ceramics, most plastics, and wood. Cures to a firm silicone rubber in 24 hours at room temperature. Seals windshield glass, windows, repair worn rubber parts.

#732 RTV (Clear), 3 Oz. Tube ..... P/N 09-04406 ..... **$12.50**
#732 RTV (White), 3 Oz. Tube ..... P/N 09-04407 ..... **$11.95**
#732 RTV (Clear), 4.7 Oz. Tube ..... P/N 09-27800 ..... **$17.50**
#732 RTV (White), 4.7 Oz. Tube ..... P/N 09-27810 ..... **$17.55**
#732 RTV (White), 10.10 Oz. Tube ..... P/N 09-04366 ..... **$20.50**
#732 RTV (Black), 4.7 Oz. Tube..... P/N 09-27815 ..... **$17.90**
#732 RTV (Black), 3 Oz. Tube..... P/N 09-04367 ..... **$13.50**
#736 Red Silicone, 3 Oz. Tube..... P/N 09-27900 ..... **$30.50**
#736 Neutral Cure Sealant (Clear)..... P/N 09-05339 ..... **$20.50**
#732 RTV (Clear) 10.10 Oz. ..... P/N 09-05636 ..... **$19.50**
#732 RTV (Black) 10.10 Oz. ..... P/N 09-05611 ..... **$20.50**

DOW CORNING RTV-3145 ADHESIVE / SEALANT

Sealing openings in modules and housings; adding mechanical stability to individual components; assembly of components on PWBs; sealing in and around wires and electrical leads; yoke assembly.

Clear ..... P/N 09-02041 ..... **$90.90**
Gray..... P/N 09-02042 ..... **$92.75**

3M™ WINDOW SEALANTS

3M STRIP CAULK - This black, nonhardening compound in 12" strips is the most satisfactory product for sealing windshields and windows. 61 strips per box, more than enough for an average, leakproof windshield installation.

P/N 08578 ..... **$37.95/Box**

HOMEBUILDERS GAP SEAL KIT FOR EXPERIMENTAL AIRCRAFT

Designed for experimental aircraft that have been identified as needing gap seals to improve control response and effectiveness. Features transparent, UV stable film with a long aging, acrylic adhesive. Remains flexible down to -40 deg. F. Easy to install with the use of simple hands tools. Kit includes 3M 8674 Film (PN 09-01643}, 86A Adhesion Promoter to ensure maximum adhesion, Scotchbrite pad (PN 09-01753) and 3M Application Solution (PN 06-00604)

P/N 05-03480 ..... **$191.80**

GAP SEAL

Gap Seal for rudder and elevator of your aerobatic aircraft! It can also be used on other aerobatic aircraft if the horizontal stabilizer, elevator, vertical fin and rudder spar is made from a 7/8 inch diameter tube with at least 1/8 inch gap and is equipped with strap hinges. Comes in 3 foot strips. It is cut and glued to the trailing edge of the horizontal stabilizer and vertical fin. Any good quality contact cement can be used to bond the Gap Seal. **NOTE**: The Gap Seal is not designed for tail surfaces that are pin hinged however some homebuilt aircraft (Pitts S-1C) with pin hinges have been used successfully. Typically 3 strips for Pitts S-1, 4 strips for Pitts S-2 and Eagle, 5 strips for Pitts Model 12.

P/N 05-04616 ..... **$68.75**

SERRATED POLYETHYLENE GROMSTRIP

Gromstrip is a continuous length of extruded U-channel for use as a protective covering on sharp edges. It can be cut to desired length and inserted into any hole, regardless of configuration. Gromstrip requires minimum space, grips surfaces snugly, and won't jar loose. Wherever wires pass through a metal piece, Gromstrip used on the sharp edges will protect against fraying and cutthrough of the wires.

Sold in 100ft. Roll ..... P/N 11-18312 ..... **$55.75**

MOMENTIVE RTV157 SILICONE ADHESIVE SEALANT - 2.8 OZ TUBE - GRAY

RTV157 ready-to-use, high strength silicone rubber adhesive sealants. They cure to tough resilient silicone rubber on exposure to atmospheric moisture at room temperature.

RTV157 sealant is a paste consistency products which can be applied to horizontal, vertical and overhead surfaces in applications requiring high strength and temperature performance.

Since the adhesive sealant utilize a moisture cure system, they must not be used in thicknesses of greater than 6mm (1/4 in.). Where section depths exceed 6mm (1/4 in.),

Momentive Performance Materials one-component, addition cure or two-component silicone rubber compounds are suggested.

The sealant is not designed for and should not be used for applications intended for permanent implantation into the human body

Features: • High strength • High temperature performance • Low temperature flexibility • One-component • Room temperature cure • General primerless adhesion • Excellent electrical insulation properties • Excellent weatherability, ozone, and chemical resistance.

P/N 09-05768 ..... **$94.90**

CRC RTV SILICONE SEALANT

For general-purpose sealing, bonding, protecting and waterroofing applications. Clear formulation forms a barely visible, water-tight seal. Sealing, bonding, protection & waterproofing in HVAC, electrical, construction, metal working, for filling gaps between mating parts, gearboxes, pumps, motors & for general gasket sealing.

Clear 8oz..... P/N 09-04719 ..... **$44.50**
Clear 12oz..... P/N 09-04677 ..... **$18.65**
Blue 8oz. ..... P/N 09-04720 ..... **$42.50**

RUBBER CHANNEL - COWL SEAL

HIGH QUALITY RUBBER CHANNEL

Good-grade neoprene. Soft, flexible, oil-resisting.
Full lengths are 15' strips from manufacturer. Priced and sold above by the foot.

Style B: 1/2" high - right, 3/8" high-left, 1/16" Groove ..P/N 05-00596 ..**$2.42**
Style C: 3/8" high, 1/8" groove, 1/4" across bottom .....P/N 05-00597 ..**$2.56**
Style D: 1/2" high - left, 3/16" - right 1/32" Groove .....P/N 05-00598 ..**$2.01**
Style E: 1-1/8" high, 1/4" lip right side, 1/16" Groove ...P/N 05-00599 ..**$3.35**

T-897 NEOPRENE RUBBER TRIM AND FERRIN SEAL

The T-897 is a Neoprene Rubber Seal that is used in various different applications on the aircraft. It is manufacture from a 60 Durometer Neoprene Rubber material. It is sold per Foot with a 10 Ft min. 1/16" opening. 1" Tall. 60 Duro Neoprene Rubber.
P/N 05-11202 .....**$8.99**

K-15 NEOPRENE RUBBER TRIM AND FERRIN SEAL

The K-15 is a Neoprene Rubber Seal that is used in various different applications on the aircraft. It is manufacture from a 60 Durometer Neoprene Rubber material. It is sold per foot. 1/16" opening. 1 1/8" Tall. 60 Duro Neoprene Rubber..... P/N 05-11192 .....**$10.65**

BA-200 VINYL U-CHANNEL 3/8

The ba-200 is vinyl U-Channel that is used as a trim seal in various applications throughout the aircraft. It is manufactured from a vinyl material that meets the requirements of the FAR 25.853 B burn test. It is available in a Black or White color and comes in a 25Ft package.
Black .....P/N 05-11174 .....**$79.75**
White.....P/N 05-11452 .....**$81.75**

T-8301 1/2 INCH J-CHANNEL 25 FOOT PACKAGE

The T-8301 is vinyl U-Channel that is used as a trim seal in various applications throughout the aircraft. It is manufactured from a vinyl material that meets the requirements of the FAR 25.853 B burn test. It is available in a Black or White color and comes in a 25Ft package.
Black .....P/N 05-11201 .....**$58.75**
White.....P/N 05-11456 .....**$103.75**

3/4 INCH BULB FOOT TADPOLE TAPE

The VC-150 is a tadpole tape that is silicone coated for added protection. It has a solid 3/4" bulb with a 1 1/4" flap x 10Ft.....P/N 05-11203 .....**$257.95**

WB-1310 WINDSHIELD WIPER REPLACEMENT BLADE

The WB-1310 is a silicone Replacement blade and is sold per foot .....P/N 05-11204 .....**$46.50**

WB-665 WINDSHIELD WIPER REPLACEMENT BLADE

The WB-665 is a silicone Replacement blade and is sold per foot.....P/N 05-11205 .....**$33.90**

T-4096 QUARTER ROUND DOOR SEAL WITH RIDGES

The T-4096 is a Hollow Quarter round door seal that has four ridges that runs down the sealing surface of it. It is constructed of a medium density sponge material and has been used in applications like the cessna door seal and others.
P/N 05-15277 .....**$10.65**

HOPPER SILICONE SEAL

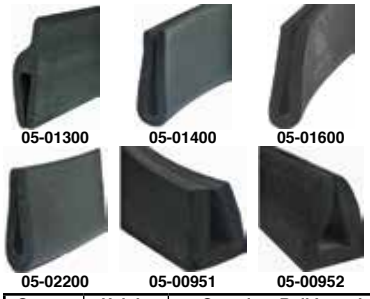
Medium Density silicone sponge material manufactured to meet the MIL-R-46089 C. The material has a Smooth finish to it. 1/2" x 1"..... P/N 05-11194 .....**$12.50**

LP AERO RUBBER U CHANNEL

LP AERO Rubber "U" Channel 1/8" slot ,1/4" wide, 1/2" High.
P/N 05-26743 .....**$6.60**

U CHANNEL

BLACK 65 DURO EPOM U-CHANNEL.



Use CRL Glass and Acrylic Setting Rubber Channels if you have acrylic or glass panels you need to protect. Our Glass Setting Rubber Channels will provide you with the product you need. Available in multiple sizes for most applications.

Sold per foot

Groove	Height	Complete Roll Length	Part Number	Price
1/16"	3/4"	12 Ft.	05-01300	**$3.40**
1/32"	3/8"	15 Ft.	05-01400	**$0.94**
1/16"	1/2"	25 Ft.	05-01600	**$2.28**
1/16"	3/8"	100 Ft.	05-02200	**$2.17**
1/8"	5/16"	50 Ft.	05-00951	**$2.57**
3/16"	1/2"	50 Ft.	05-00952	**$3.55**

OPEN CENTER CHANNEL

1-1/4" wide with an 1/8" x 1/2" long groove, manufactured in 12ft lengths .....P/N 05-01500 ..... **$3.55 Ft.**

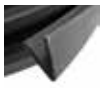
Neoprene sponge rubber 1/4-round door seal. 1/2" Legs, 3/4" Curve, 3/8" Radius. Hollow core makes a better seal. Manufactured in 25 Ft. lengths... P/N 05-01700 ..... **$4.65 Ft**

SILICONE P-SEAL 50 DURO

Silicone P-seal 50 duro for battery box application/lighter wall thickness 1-1/2 x 5/8 bulb. Sold by foot.
Use GBL4-4AB large flange (black) pop rivets to install (PN 05-00483) .....P/N 05-04704 .....**$21.90**

ANTI-CHAFE MOLDING

Anti-Chafe Molding for fuel tank straps. Neoprene channel accommodates metal straps 1" wide.
P/N 05-01800 ..... **$3.60 ft**



"V" STRIP

"V" Strip Canopy Channel 20 Ft. required for Long-EZ.
P/N 05-01900 ..... **$1.84 ft**

QUARTER ROUND DOOR SEAL

Hollow Quarter round door seal. Medium density sponge material. Use 1100-2 contact cement.
BA-10012.....P/N 05-11173 ..... **$6.50 ft**

CESSSNA/PIPER QUARTER ROUND DOOR SEAL

Constructed of a medium density solid sponge material that offers excellent compression ability and resiliency when installed correctly. Use 1100-2 contact cement.
RB-5022 .....P/N 05-11193 ..... **$1.73 ft**

QUARTER ROUND SOLID DOOR SEAL - Closed cell black neoprene with smooth outer surface. 1/2" Legs, 3/4" Curve, 1/2" Radius. 25 ft. Roll
Solid.....P/N 05-00000 .....**$39.70**
Hallow .....P/N 05-12641 .....**$54.75**

PIPER DOOR SEAL - Small cell sponge rubber. 25 foot rolls JM189139. .....P/N 05-00010 .....**$86.75**

BAGGAGE DOOR SEAL - Flexible small cell sponge rubber seal used on many aircraft baggage doors. Packaged in 25 foot rolls. 25 ft. Roll.....P/N 05-00020 .....**$92.75**

PIPER WING ROOT SEAL - Black packaged in 12-foot lengths, adequate for one wing root.
12 ft. Roll .....P/N 05-00030 .....**$65.75**
25 ft. Roll .....P/N 05-00030-1 .....**$292.95**

PIPER WING ROOT SEAL - 12 foot. Enough seal to replace the seal on one wing of your Piper aircraft, it is made of a Black neoprene rubber material.
P/N 05-13058 .....**$101.85**

BEECH WING ROOT SEAL - Black, packaged in 12-foot lengths, adequate for one wing root. 12 ft. Roll
P/N 05-00040 .....**$82.75**

J-3, PA-18 DOOR GAP SEAL - 24" length Standard color, black. .....P/N 05-00953 .....**$28.50**

Note: The above moldings are not FAA approved.

AP

CHAFE SEAL - DOOR SEALS

AP

EPDM WEATHERSTRIP

Self-adhesive rubber strip, made in Sweden of 100% EPDM rubber. Resistant to aging, weather, ozone, ultraviolet sun rays and many chemicals and solvents. Retains resilience at low temperatures (to - 45°F). Excellent for all types of weatherstripping and canopy installations. Furnished in three sizes

P-STRIP - Furnished in full rolls as a double-width strip which splits in the middle to give two single-width P-strips as illustrated. 17 Ft. Roll 1/4" thick x 3/8" wide.
COLOR: WHITE .....P/N 05-01200 .... **$14.50 Ea.**

D-STRIP WEATHERSEAL - 17' Roll 5/16" thick x 23/64" wide. (2) 8-1/2' strips.....P/N 05-00897 .....**$17.50**

ALL STRIP WEATHERSEAL - 10' Roll 5/16" thick x 19/64" wide. .....P/N 05-00898 .... **$24.50 Ea.**

THESE PRODUCTS ARE NOT FAA/PMA APPROVED. PLEASE CONSULT YOUR A&P/IA FOR GUIDANCE REGARDING INSTALLATION AND USE ON CERTIFIED AIRCRAFT.

BEECHCRAFT COWL DOOR CHAFE SEAL

A Complete set of black silicone chafe seal for the upper cowl doors for Beech models 33, 35, 36. 3/8" wide X .020 thick. Kit includes silicone cement.
P/N 05-00665 .....**$50.50**

BEECHCRAFT MAIN LANDING GEAR DOOR CHAFE SEAL

A Complete set of black silicone chafe seals cut to the original design. These seals are cemented to the underside of the wing to reduce the chafing of the main landing gear doors when closed. Adhesive is included. Full kit contents on web. .....P/N 05-00667 .....**$150.75**

BEECHCRAFT RUDDERVATOR SEAL

A set of two ruddervator seals for model 35.
P/N 05-00670 .....**$148.75**

BEECHCRAFT UPPER / LOWER WING SEAL

Includes 2 (12ft) Upper Wing, 2 lower wing seals and 4 oz of cement. (2). Applicable models: 33, 35, 36, 55, 58.
Standard: 12' Upper, 8' lower...P/N 05-00668 .....**$519.00**

SILICONE ANTI-CHAFE SEAL

Anti-Chafe Seal AMS3303-.032. Silicone, Black, 1-1/2" wide x 15' long. Silicone Anti-Chafe Material: Mooney and Early Cessna Models. Piper: Malibu and Mirage. Replaces the use of Teflon Tape. Reduces vibration on the cowling, reduces wear on the contact surfaces. Seals the aircraft cowl from rain and water. Can also be used for fuel straps. Silicone cement must be used to install silicone based seals. Silicone Cement required for Installation.
Black 1 Inch.....P/N 05-06916 .....**$65.75**

BEECH FRAMED SILICONE FOAM DOOR SEAL

Original Design. Fits 33-35-36-50-55-56TC-58-95 and includes Door Seal, Silicone Cement, Acid Brush, pair of Gloves and a Razor.
P/N 05-10740 .....**$78.75**

BEECHCRAFT TAIL ROOT SILICONE SEAL

AMS3303 silicone seal temperature range -65 to +350. Beechcraft tail root seal. A set of two tail root seals for models 33–36.
Standard Seal - 15 foot length.....P/N 05-00669 .....**$201.95**
Extra Wide Seal.....P/N 05-00669-1 .....**$329.00**

SILICONE AIRBOX & HEATER SEAL

This fiberglass reinforced silicone seal (1/16" thick) makes an excellent replacement for various airbox and heater box seals used in a variety of aircraft. Furnished as a 6" x 6" piece; Black .....P/N 05-00662 .....**$24.80**

BLACK SILICONE P SEAL WITH 5/8" BULB

This seal makes an excellent replacement for felt type seals or other neoprene P-seals found in various aircraft. Overall size is 1-3/8" with a 5/8" bulb. Similar to Cessna #S2729-1.Note: Use GBL4-4AB large flange (black) pop rivets to install (PN 05-00483) .....P/N 05-00663 ..... **$33.85/ft.**

BEECHCRAFT STORM WINDOW SEAL

19/23/24/33/35/36/50/55/58/76/77/95 Series Window Seal, Storm Window.(Frameless)
P/N 05-03613 .....**$31.70**

PIPER/MOONEY DOOR SEALS

Developed from a special rubber compound that meets military specifications and FAA requirements for aircraft seals. Has a memory, compresses and conforms to the sealing surface providing a perfect seal. Comes with pressure sensitive adhesive that makes it easy to apply and bonds well with any metal surface painted or bare. Installs in the channel on the fuselage opening. Provides for an air- and water-tight seal. Detailed instructions, an engineering drawing for installation of the new seal, including instructions for adjustment of the door as well as removal of the old seal from the door(s).

Please call or visit our website for additional photos and models.

Description	Part No.	Price
PA-28 Front Entry Door	05-01240	**$124.75**
PA-28 Rear Baggage Door	05-01241	**$75.85**
PA-28/32/34 Front Entry Door	05-01240	**$124.75**
PA-32 Rear Entry Door w/Cargo Door	05-01245	**$137.95**
PA-34 Front Entry Door	05-01240	**$124.75**
Mooney Aft Baggage Door	05-04859	**$75.85**
Mooney Storm Window Seal	05-02483	**$31.70**
Mooney Front Entry Door - Not Recommended for years 1998 - 2009.	05-03626	**$193.75**
Mooney All MK20 Series Front Entry Door	05-04858	**$124.75**

PIPER AIRCRAFT FRONT MOUNTED DOOR SEAL

Piper Aircraft Front Mounted Door Seal P301-1. Nearly a year of development and testing went into creating this revolutionary new Entry Door Seal for aircraft. Custom extruded from a special hybrid rubber compound, the new seal is superior to any seal on the market.
P 301-1 Seal for PA 28/32/34 .....P/N 05-03628 .....**$193.75**
P 301-23 Seal for PA 28/32/34 .....P/N 05-06859 .....**$193.75**
See our website for application chart.

CESSNA DOOR SEALS

The new seal installed on the fuselage enables the door to fully close and be air and water tight. The seal is easy to install; with its own adhesive strip and is FAA-PMA approved for all single-engine Cessna aircraft. Please visit our website for a complete selection of door and baggage seals.

Cessna Entry Door Seal.....P/N 05-01610 .....**$124.75**
Cessna Window Seal .....P/N 05-01611 .....**$75.85**
Cessna Baggage Door Seal.....P/N 05-01612 .....**$75.85**
Cessna AFT ENT/CARGO Door Seal.....P/N 05-01613 .....**$137.95**
Cessna 207 Front Bag Door Seal .....P/N 05-01614 .....**$75.85**

SILICONE LUBRICANT - This pure silicone lubricant will greatly improve the life and sealing ability of door seals and rubber gaskets.
P/N 05-04641 .....**$7.50**

CESSNA DOOR SEAL (FRONT ENTRY) - A great seal for Cessna 120, Cessna 140, Cessna 150, Cessna 152, Cessna 170, Cessna 172, Cessna 175, Cessna 180, Cessna 185, Cessna 190, Cessna 195, Cessna 206, Cessna 207, Cessna 210, Cessna 336, Cessna 337. Sold as each (per door) .....P/N 05-03621 .....**$193.75**

CESSNA DOOR SEAL (FRONT ENTRY) - A great seal for Cessna 177 Sold as each (per door).....P/N 05-03622 .....**$193.75**

CESSNA VENT WINDOW SEAL- A great seal for Cessna Cessna 177, 337. Sold as each. Installs easily with its pressure sensitive strip.
P/N 05-03625 .....**$31.70**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

BAGGAGE COMPARTMENTS

Our Baggage Compartments are custom designed and manufactured to provide your aircraft with a sturdy and attractive area for storing baggage, books, charts, etc. If your aircraft is not listed, please send us the old baggage compartment to use as a pattern for a new one. Available in two colors: off-white or olive drab canvas.

Note: Complete the part number with color choice. Use -1 for off-white, -2 for olive drab.
Baggage Compartments are special order & non-returnable

Aircraft	Part No.	Price
Aeronca 7AC	09-17265-	**$56.95**
Aeronca 11AC	09-17270-	**$205.95**
Cessna 120/140	09-17275-	**$183.75**
Cessna 150*	09-17280-	**$183.75**
Cessna 172	09-17285-	**$172.75**
Cessna 310	09-17290-	**CALL**
Ercoupe	09-17295-	**$164.75**
Fairchild 24	09-17300-	**$194.75**

Aircraft	Part No.	Price
Luscombe 8A	09-17302-	**$106.95**
Piper J3	09-17305-	**$52.80**
Piper J4	09-17307-	**$109.75**
Piper J5	09-17310-	**$86.75**
Piper PA12	09-17312-	**$135.95**
Stearman	09-17315-	**$76.75**
Taylorcraft	09-17317-	**$61.75**

* From 1964 and later

MAP POCKET

10' elastic mouth, square black vinyl pocket mounted on fiberboard. Includes hardware. .P/N 09-17415 .....**$168.75**

TAIL WHEEL BOOTS

To keep your aircraft components clean from contamination by dust, grime and dirt, install these quality covers made from black vinyl. No mounting hardware included.
Cessna 195.....P/N 09-17350 .....**$67.75**
Staggerwing.....P/N 09-17352 .....**$142.75**
Stearman .....P/N 09-17355 .....**$160.75**

CESSNA 150 STEERING LINKAGE COVERS

Linkage Covers for the Cessna 150 Steering Cover. Not FAA Approved.....P/N 09-04051 .....**$64.75**

PIPER SHOCK BOOTS / COVERS

P/N 09-17410

P/N 09-17365

P/N 09-17360

To keep your aircraft components clean from contamination by dust, grime and dirt, install these quality covers made from black vinyl. No mounting hardware included.

Aircraft	Description	Qty	Part No.	Price
PA-22	1 Pc. Control Column Boot	Each	09-17410	**$36.60**
PA-25	Gate Control Rod Boot	Each	09-17357	**$66.75**
J-3	Piper Shock Boots	Pair	09-17360	**$99.75**
PA-25	Gate Control Rod Boot	Each	09-17375	**$28.50**
PA-25, SN25-2000 to -4171	Shock Strut Boots, pair	Pair	09-17377	**$67.75**

MISCELLANEOUS BOOTS / COVERS

Aircraft	Description	Qty	Part No.	Price
Aeronca 7AC	Joy Stick Covers	Pair	09-17362	**$38.50**
Cessna172 (also fits 182)	Steering Linkage Covers	Pair	09-17365	**$28.50**
Citabria	Interior Boots	Each	09-17367	**$57.99**
Beech Bonanza	Gear Boots for Main Gear	Pair	09-17370	**$56.75**
Beech Bonanza	Dust Boot for Retractor Nose Gear	Pair	09-17372	**$47.65**

PIPER SHOCK CORD COVER

Applicability: Piper PA-18. 16.75" Aluminum Shock Cord Cover. Used with Hydrasorb. FAA/PMA Approved.....P/N 05-14960 .....**$209.95**

PIPER SOFT SHOCK CORD COVER

Applicability: Piper PA-18.
Soft cover with Velcro and snaps for easy installation and removal and sold in pairs.
Red .....P/N 05-26657 .....**$107.75**
Black .....P/N 05-26658 .....**$110.75**

SEAT SLINGS

These canvas slings are available in Off-White or Olive Drab. All seat slings include front and rear slings except:
Aeronca 65CA..... 1pc
Piper J-3..... 3 pcs
PA-22 ..... 1 pc
PA-12 ..... 3 pcs
Taylorcraft ..... 1 pc

Note: Complete Part Number with color. Use -1 for Off White or -2 for Olive Drab.

Aircraft	Part No.	Price
Aeronca 65CA	09-17320-	**$193.75**
Bellanca	09-17322-	**$104.75**
Citabria	09-17325-	**$176.75**
KR-1 & 2	09-17327-	**$90.75**

Aircraft	Part No.	Price
Piper J-3	09-17330-	**$111.75**
Piper J-5	09-17332-	**$154.75**
Piper PA-12	09-17335-	**$154.75**
Piper PA-22	09-17337-	**$147.75**
Taylorcraft	09-17340-	**$191.80**

WINDLACE INTERIOR DOOR SEAL WELT

1/2" diameter vinyl covered material that provides additional sealing and ornamental edging for the door opening. The windlace is mounted between door post structure and upholstery panels or trim. Install with sheet metal screws. Black color only. ..... P/N 09-00281..**$11.75 / ft.**

3M™ SUPER WEATHERSTRIP ADHESIVE

For adhering all types of rubber weatherstripping to metal. Light colored adhesive, very fast drying, exceptional bonding strength. Can be used for adhering vinyl trim head liners and side panels.
5 oz. tube, #8001 ..... P/N 09-27200.....**$13.50**

3M™ GENERAL TRIM SPRAY ADHESIVE

This convenient sprayable adhesive is used for bonding a variety of trim fabrics. It is non-misting, very strong, light colored, and has a controllable spray pattern.
19.75 oz. Aerosol Can..... P/N 09-28330 .....**$27.55**

3M™ SCOTCH GRIP RUBBER ADHESIVE

This fast drying adhesive develops strength very quickly. It has excellent heat resistance; temperature performance is from -5 to 300°F. Meets specification requirements of MIL-A-1154C. Bonds neoprene, reclaim, SB-R, and butyl rubber to metal, wood, most plastics, and many other products.
#1300L Qt Can..... P/N 09-27220.....**$96.75**

GORILLA CLEAR REPAIR TAPE

Features the strength of Gorilla Tape in a weatherproof, airtight, crystal clear tape. Fix, patch, seal, hold, and protect almost any surface with a crystal clear appearance for a perfect fix every time .....P/N 09-04029 .....**$10.99**

AERO-SEAL CEMENT

Designed for door seals and moldings. Adheres rubber to wood, other rubber, fiberglass or metal. 4 oz. brush-top container.....P/N 05-00955 .....**$24.50**

FEMALE BUTTON SNAP

Made from durable, nickel-plated brass, 11/64" cap # 93-X2-10128-2A. The medium-sized cap works great for projects using marine canvas and upholstery fabric. Uses include umbrellas, awnings, boat covers, tents, outdoor upholstery, gear bags, luggage, and more. Finalize your selection of performance upholstery setting tools with heavy-duty DOT Durable caps .....P/N 09-01033 .....**$0.21**

AP

HEADLINERS - INTERIOR MATERIALS

HEADLINERS

A sagging or torn headliner can make even the nicest airplane look unattractive and worn out. Headliners are actually quite inexpensive and easier to replace than many pilots realize. Our headliners are professionally manufactured and every headliner set comes with complete instructions. Available in Excell stretchable vinyl or wool. Specify fabric type and color as noted below the chart.Headliners are special order & non-returnable.

Aircraft	Part No.	Price
Aeronca		
7AC	09-17454	**$249.95**
11AC	09-17455	**$253.95**
15AC	09-17456	**$316.00**
Chief 65CA	09-17458	**$182.75**
Chief LA65	09-17460	**$182.75**
L-3 Defender	09-17462	**$194.75**
Bellanca Scout		
w/Greenhouse	09-17464	**$177.99**
Super Viking 1730	09-17466	**$245.95**
Cessna		
120/140	09-17468	**$318.00**
150 (59)	09-17470	**$151.75**
150 (60)	09-17472	**$171.75**
150 (61-63)	09-17474	**$171.75**
150 (64-65)	09-17475	**$127.99**
150 (66-68)	09-17476	**$151.75**
150 (69)	09-17478	**$151.75**
170A	09-17480	**$267.95**
170B	09-17481	**$369.00**
172 (56-58)	09-17482	**$256.95**
72 (59-60)	09-17484	**$217.95**
72 (61-62)	09-17485	**$217.95**
172 (63-70)	09-17486	**$162.80**
172 (64) Off-White Vinyl	09-04589-1	**$271.95**
172 (64) Off-White Wool	09-04589-2	**$186.75**

Aircraft	Part No.	Price
172 (64) Tan Wool	07-04589-3	**$162.80**
174(64)	09-04589-4	**$186.75**
175	09-17488	**$204.95**
180	09-17490	**$217.95**
Cessna		
182 (56)	09-17492	**$256.95**
182 (57-59)	09-17494	**$256.95**
182 (60-61)	09-17495	**$217.95**
182 (62, Omnivision)	09-17496	**$173.85**
185 (75)	09-17498	**$217.95**
206/207	09-17510	**$205.95**
210 (66-68)	09-17512	**$248.95**
310	09-17514	**$486.00**
Citabria		
w/Greenhouse	09-17515	**$171.75**
w/o Greenhouse	09-17516	**$194.75**
Commonwealth		
Skyranger	09-17518	**$304.00**
Fairchild		
24	09-17520	**$231.95**
Maule		
M4	09-17522	**$286.95**
M5	09-17524	**$280.95**
Piper		
J-4 Coupe	09-17525	**$182.75**
PA-121/J-5*	09-17526	**$235.95**

Aircraft	Part No.	Price
PA-14	09-17528	**$205.95**
PA-15 Vagabond	09-17530	**$217.95**
Piper		
PA-16 Clipper	09-17532	**$176.75**
PA-18 Super Cub	09-17534	**$133.75**
PA-20/22 (51-52) 6 bows, 2 zippers	09-17535	**$197.75**
PA-20/22 (52-58) 8 bows, 3 zippers	09-17536	**$248.95**
Colt 108	09-17538	**$217.95**
PA-23/250 (early 1960)	09-17540	**$350.00**
PA-242 (thru 1965)	09-17542	**$390.00**
PA28/323	09-17544	**$420.00**
Stinson		
108-2	09-17546	**$242.95**
108-3	09-17565	**$333.00**
10A	09-17548	**$256.95**
105-HW75	09-17550	**$256.95**
Taylorcraft		
BC12	09-17552	**$337.00**

*1 Specify round or square windshield Round: S/N 12-01 thru 12-2903.-2907, -2914, -2915, -2917, -2925, -2950, -3028-S, -3901 -3902, -3903; Square: S/N 12-2904 and up except those listed above.

NOTE: COMPLETE PART NO. WITH FABRIC & COLOR. EXCELL STRETCHABLE VINYL OFF WHITE -1, WOOL OFF WHITE -2, TAN -3, GRAY -4.

ANTIQUE PIPER WING ROOT FRAME COVERS

This cover is constructed of a lightweight stiffener panel, 1/2" foam padding and headliner fabric. A flap extends into the back side of the wing root frame and glues in place for a professional finish.

P/N 09-17345 .....**$123.90**

FIREWALL SETS

Vinyl outside, backed with 1/4" closed-cell insulation. If your aircraft is not listed, please send us your current firewall set to use as a pattern.

1-Piece Bulkhead Firewall

Aircraft	Part No.	Price
Aeronca 7AC	09-01324	**$211.95**
Aeronca 11AC Chief	09-04440	**$211.95**
Aeronca 11AC	09-35910	**$211.95**
Cessna 120/140	09-35915	**$211.95**
Piper PA20/22	09-35925	**$211.95**
Piper PA18	09-35930	**$211.95**
Piper PA28/140	09-35935	**$211.95**

CITABRIA

Bulkhead and wrap-around pad 3 piece set.

P/N 09-35950 .....**$366.00**

LUSCOMBE 8A & 8E

Please specify model. Also specify if 8A is with or without dishpan. If "with dishpan", specify if round or oblong.

Standard.....P/N 09-35940 .....**$211.95**
With Dishpan.....P/N 09-35945 .....**$211.95**

UPHOLSTERY HARDWARE

82° Countersunk Washers

Size 4.....P/N 04-03898 .....**$0.11**
Size 6.....P/N 04-03899 .....**$0.21**
Size 8.....P/N 04-03901 .....**$0.13**
Size 10.....P/N 04-01946 .....**$0.18**

82° Flush Washers

Size 6 .....P/N 04-03895.....**$0.07**
Size 8 .....P/N 04-03896.....**$0.09**
Size 10 ....P/N 04-03897.....**$0.11**

82° Oval Head Screw

4x1/2 - A-OV....P/N O4X8.....**$0.06**
6x1/2 - A-OV....P/N O6X8.....**$0.06**
6x3/3 - A-OV....P/N O6X12....**$0.06**
6x1.....P/N O6X16...**$0.07**

Snap Studs - Males snaps attached to self-tapping phillips head screws. For canopies

#7 x 3/8".....P/N 04-01520 .....**$0.58**
#7 x 5/8".....P/N 13-03296 .....**$0.10**

* P/N 13-03296 comes without a screw and P/N 04-01520 has the #8 screw built in.

HEADLINER WOOL

This is a quality versatile wool headlining fabric. Wrinkles can be removed by applying water in a fine mist then using heat, such as a hair dryer, allowing wool to shrink. This gives a nice tight fit. Colors: Off-white, tan and gray. Complete P/N with color choice using (-2) for Off white, (-3) for tan, or (-4) for gray. 54 inches wide; sold by the yard.

P/N 09-17566-X..**$40.75/yd.**

3M™ HEADLINER CEMENT

• High performance laminating contact adhesive • Adheres, sheet metals, such as stainless steel, aluminum, cold rolled steel and many plastics to numerous other substrates • High performance laminating adhesive • Excellent moisture and heat resistance and will perform up to up to 300°F/148°C • Available in tubes, cans or pails

3M™ Neoprene High Performance Contact Adhesive 1357 is a versatile, solvent based adhesive. It offers high immediate handling strength and good heat resistance, and is commonly used for bonding most metals and plastics. It is also suitable for large surface panel or composite lamination.

Quart.....P/N 09-17570 .....**$89.75**

SUPER TRIM ADHESIVE #1081

A high temp high strength contact type adhesive. Bonds metal, foam, decorative laminates, fabrics, headliners. Variable width spray pattern. Meets Fed. Spec. MMM-A-130B.

16.5 Oz. Can ..... P/N 09-42652 .....**$19.50 ea.**

HEADLINER EXCELL STRETCHABLE VINYL

Unique four-way stretch that easily eliminates tension wrinkles, producing a smooth professional finish. Backing and facing are mildew resistant. 54" width. Color: Off white.....P/N 09-17564 .....**$64.75/yd.**

FELT

All wool, 1/4" thick felt for paddings. Firm but resilient construction for many aircraft applications. Gray/ brown mix. **NOTE**: Sold in Full 36" Width only. Sold per foot.

P/N 09-31600 .....**$20.50/Lineal Ft.**

3M™ LEADING EDGE TAPES - PROTECTIVE BOOTS

3M™ 8672 POLYURETHANE PROTECTIVE TAPES

3M™ Polyurethane Protective Tape 8672 is made from a tough abrasion resistant polyurethane elastomer that resists punctures, tearing, abrasion and erosion. It is formulated for resistance to ultraviolet light. Polyurethane Protective Tape 8672 provides a simple, easy method of protecting a surface from corrosion, abrasion and minor impact damage. It can be installed in a minimum amount of time with simple tools. It can be painted or applied over painted surfaces. Polyurethane Protective Tapes 8672 and 8672 GB are constructed with a long-aging, solvent resistant, pressure sensitive acrylic adhesive that is protected with an easy release paper liner. Polyurethane Protective Tape 8672 is a transparent tape with a paper liner on the adhesive side.Please visit our website for application instructions.

BY THE FOOT

Width	Color	Description	Part Number	Price
3”	Clear	3M™ 8672 Tape	09-01634-1	**$4.85**
4”	Clear	3M™ 8672 Tape	09-01635-1	**$6.70**

FULL ROLLS

Width	Color	Description	Part Number	Price	Price
1”	36yd	Clear	3M™ 8672 Tape	09-00841	**$150.75**
2”	36yd	Clear	3M™ 8672 Tape	09-20140	**$274.95**
3”	36yd	Clear	3M™ 8672 Tape	09-00843	**$414.00**
4”	36yd	Clear	3M™ 8672 Tape	09-20145	**$550.00**

3M™ TAPE ADHESION PROMOTER 86A & CLOTH

06-00605

05-03479

Tape Adhesion Promoter 86A is intended for use in enhancement of 3M Polyurethane Protective Tape adhesion levels to certain types of surfaces. It is most effective when used over polyurethane enamel surfaces.

Specifications:

• Active Ingredient: Polyamide Resin • Solvent: Isopropyl Alcohol, N-Propyl Alcohol • Solids: 6.5% • Color: Transparent, Colorless • Viscosity: Approximately 100 cps • Flashpoint: 53°F (12°C) Flammable Liquid • Net Weight: .95 lbs./pint • Storage: Store at 60-80°F (16-27°C). Lower temperature storage will cause, 3M 86A Promoter to gel. • Shelf Life: Two (2) years from date of manufacture

16 oz. ..... P/N 06-00605 ..... **$110.75**
Adhesion Promoter Cloth (Sold Each) ..... P/N 05-03479 ..... **$35.50**
5 Pack ..... P/N 05-03479-5 ..... **$162.75**

3M™ POLYURETHANE PROTECTION TAPE APPLICATION SOLUTION

A pre-mixed, water-based solution for applying 3M Polyurethane Protective Tape and Boots. Solution is provided pre-mixed in a ready to use squirt bottles. Allows wide width and contoured performed boots to be easily installed.

P/N 06-00604 ..... **$86.90**

ALLPROTECT™ AVIATION NON-SLIP COVERING MATERIAL

ALLProtect is a padded, non-slip protective covering for use on interior and exterior surfaces of all types of aircraft during building, maintenance and repairs. Nonwoven with an adhesive PE film and non-slip surface. The backing is a PE film that creates a liquid barrier against spills, and it has a strong adhesive composite that leaves absolutely no residue on removal. Reusable • Slip-proof • Waterproof • Leaves no residue • Strong & tear-resistant • 98 mil (2.5mm) padded grey felt • PE film backing with strong adhesive • Custom sizes available, please inquire • Interior uses: sticks to carpet, tile, wood • Exterior uses: fold down stairs, wrap around wings • Maximum protection against paint, liquid spills, dirt, scratches & more. ALLPROTECT is a hard-wearing nonwoven made of synthetic fibres. The underside features an adhesive laminated composite that serves as a liquid barrier and leaves absolutely no residue on removal. Its outstanding adhesive strength enables horizontal and vertical applications.

Small Roll 39” x 32” Grey ..... P/N 05-15424 ..... **$380.00**
Half-Width Roll 20” x 82” Grey ..... P/N 05-15425 ..... **$477.00**
Full Roll 39” x 82” Grey ..... P/N 05-15081 ..... **$533.00**
Full Roll 39” x 82” Red ..... P/N 05-22927 ..... **$742.00**

3M™ POLYURETHANE PROTECTIVE BOOTS

3M™ Polyurethane Protective Boots SJ8665 are pre-formed and used extensively in private, commercial and military aircraft to fit the complex curvatures of a variety of applications. These boots are designed to help provide long lasting protection of radomes, wing and stabilizer tips, landing gear pods, composite parts, and other portions of aircraft from rain, moisture ingression, UV light, insects, sand, sleet, snow, and most other airborne particle erosion damage. The boots are part of a 3M family of high performance surface protection products available for various aerospace applications worldwide.

Boot Application	3M P/N	Our P/N	Price
Aerostar			
601 P Radome	FP-127	09-00856	**$468.00**
Beechcraft			
90,100,200,1300,1900,Most King Air, 65/A65,70,80, A80,B80,U-8F, U-21A	FP-5	09-00863	**$849.00**
1900& King Air Series Vertical Fairing Dome	FP-173	09-00865	**$380.00**
Bombardier			
Learjet 23,24,25,Radome (PN2411241-1)	FP-7-1	09-00866	**$424.00**
Learjet 33, 36 Wing Tip	FP-13-1	09-00867	**$437.00**
Learjet M-45 Radome	FP-174-1	09-00869	**$606.00**
Cessna			
208 Wing Mounted Radome	FP-34	09-00871	**$459.00**
208 Prop Spinner	FP-87	09-00872	**$608.00**
Citation II, IV, VII	FP-70	09-00879	**$857.00**
Embraer			
Canadair	SJ8663	09-05318	**$477.00**

3M POLYURETHANE 8561 / 8562 PROP TAPE

Note: For Experimental Aircraft Only

Clear 2” wide polyurethane tape stretches to conform to curved or straight leading edges without wrinkling. Thick for greatest protection from any in the field applied surface. ** Sold by the foot.

Features: • Abrasion/Scratch Resistant – Will provide long-term protection of many finished surfaces • Impact Resistant – Maintains the surface integrity in many applications where minor impacts are a concern • Puncture Resistant – Forms a tough barrier against liquids that can be a source of corrosion • Conformable – Can be made to fit most curved surfaces • Easy Application – Polyurethane Protective Tapes provide an easy solution to many demanding applications • No VOCs – Volatile Organic Compounds are not released during application

.008” Thick x 2” Wide ..... P/N 15-05829 ..... **$3.35**
.014” Thick x 2” Wide ..... P/N 15-04832 ..... **$4.35**

3M™ POLYURETHANE 8671 - 2 INCH TRANSPARENT PROTECTIVE TAPE

Resists Wearing, Abrasion and Tearing

3M™ Polyurethane Protective Tape 8671 is a transparent thermoplastic polyurethane elastomer tape designed to provide premium leading edge erosion protection. With scratch, tear, erosion and puncture resistance that comes from the polyurethane backing, this tape also includes a high peel strength acrylic adhesive. It can withstand a wide variety of difficult conditions, including rain and sand erosion. It is formulated for resistance to ultraviolet light. The tape can be applied efficiently in aircraft production and maintenance. If you’re looking for a formed 3D part that offers similar levels of protection, consult our selection of 3M™ Polyurethane Protective Boots.

3M™ Polyurethane Protective Tape 8671 is a 14 mil, leading edge erosion protection tape comprised of a tough polyurethane backing and an acrylic adhesive. It resists punctures, tearing and abrasion, and even ultraviolet light. This tape is qualified to aerospace specifications.

Attention: Experimental use only ..... P/N 09-05774 ..... **$421.00**

AP

LEADING EDGE TAPE - WINGWALK

LEADING EDGE TAPE

Clear plastic tape with adhesive backing for application to wing and tail leading edges for protection against nicks caused by stones and gravel. 100 Ft. Rolls.

Width	Color	Part Number	Price/ roll
2”	Clear	09-31610	**$19.50**
3”	Clear	09-31615	**$25.55**
4”	Clear	09-31620	**$36.60**
6”	Clear	09-31625	**$49.50**

3M™ POLYURETHANE LEADING EDGE TAPE

Designed to help protect light aircraft from the damaging effects of rain, insects, sand, snow and sleet. A tough durable, protective tape for exposed surfaces. 3M #8672 Polyurethane Protective Tape is designed to help protect the leading edges of aircraft wings, struts, and horizontal and vertical stabilizers from airborne particle damage. Versions of this tape are used extensively for surface protection in both military and commercial aircraft applications. May be applied to clean metal or to commonly used aircraft paints over metal or fabric. Not to be used on props, helicopter rotors or balanced surfaces such as elevators or ailerons. Clear in color. Sold in full rolls only.

2” wide.....P/N 09-20140 .....**$274.95**
4” wide.....P/N 09-20145 .....**$550.00**

3M™ DUCT TAPE

A general-purpose gray cloth tape with good adhesive qualities.

2” x 60 Yd. Roll.....P/N 09-30900 .....**$27.50**

MASKING TAPE

Armak general or 3M purpose crepe masking tape. Long shelf life.

1” x 60 Yd. Roll.....P/N 09-20100 .....**$7.50 ea.**

CLOTH TAPE

Has many uses in aircraft maintenance work. Strip over sharp corners to protect fabric. Strips under doped fabric will prevent fabric from sticking to parts. Pressure-sensitive adhesive backing. Easily applied, easily removed.1” x 60 Yd.

Roll.....P/N 09-17100 .....**$15.90**

GORILLA TAPE

Camouflages repairs on white surfaces, and won’t yellow outdoors due to its superior UV resistance. Perfect for both indoor and outdoor use with its superior UV resistance and ability to grip to rough, uneven, unforgiving surfaces like wood, stone, stucco, plaster, brick and more. 30 yard rolls.

Standard Width.....P/N 09-04091 .....**$12.50**
Tough and Wide .....P/N 09-04092 .....**$20.50**

GLASS STRAPPING TAPE

A pressure-sensitive transparent acetate film tape reinforced with glass strands. Possesses high tensile strength (375 lbs./inch width) and good impact strength. Especially effective for carton sealing applications. #RG-2A, 3/4” x 60 Yd. Roll.

P/N 09-31200 .....**$5.35**

RESCUE TAPE

Rescue Tape is a self-fusing silicone repair product with infinite uses. Most versatile and easy to use emergency repair product available. You can repair leaks on plumbing and hoses in a flash, use for electrical wiring or as shrink wrap, wrap tool handles, and much, much more. Incredible 700 PSI Tensile Strength, Insulates 8,000 Volts per layer, Withstands 500° F Degrees of heat! (260° C) ~ Remains flexible to -85° F! (-60° C), Creates a Permanent Air-Tight, Water-Tight Seal in seconds, Resists Fuels, Oils, Acids, Solvents, Salt Water, Road Salt, UV Rays.

Description	Color	Part No.	Price
Rescue Tape Standard Roll 1”x12’x.020”	Red	01-00989	**$15.90**
Rescue Tape Standard Roll 1”x12’x.020”	Black	01-00990	**$17.50**
Rescue Tape Standard Roll 1”x12’x.020”	Clear	01-00991	**$15.90**
Rescue Tape Industrial Roll 2”x36’x.030”	Black	01-00992	**$72.80**
Rescue Tape Industrial Roll 2”x36’x.030”	Red	01-00993	**$78.75**

LEADING EDGE TAPE

Clear adhesive 0.012″ thick polyurethane film is available in un-formed (straight) tape for erosion protection on any flat leading edge. Ideal for erosion protection on numerous aircraft leading edges including wing leading edges, horizontal tail, landing gear, etc. Also works great for many other applications including automotive erosion protection. Available in five different widths. 100 feet per roll.

Description	Part No.	Price
PM-T1 1” Tape For Antenna Bases	08-12446	**$108.75**
PM-T2 Leading Edge Tape 2” Roll	08-12447	**$213.95**
PM-T3 Leading Edge Tape 3” Roll	08-12448	**$315.00**
PM-T4 Leading Edge Tape 4” Roll	08-12449	**$409.00**
PM-T6 Leading Edge Tape 6”Roll 36 Yd	08-12450	**$606.00**

NON-SKID WING WALK TAPE

The non-skid adhesive tape is excellent for wing walk applications. The clear is perfect for pilots wishing their step areas to blend in, not stand out. This tape meets all applicable Mil Specs and has superior adhesion qualities. Sold by linear foot. **Note**: Material is translucent and will allow the underlying color to show through, but is not optically transparent.

24” Wide Clear.....P/N 09-31685 .....**$24.50**
24” Wide Black .....P/N 09-05644 .....**$7.80**
6” Wide Clear.....P/N 09-31645 .....**$5.35**
24” Wide White.....P/N 09-31680 .....**$25.75**

ULTRA WING WALK COATING

Developed exclusively for Aircraft Door Seals by a major chemical company, this phenomenal new wing walk coating reduces the chance of slipping when climbing up on the wing. Unlike the mundane wing walk coating found on most aircraft, ULTRA WING WALK is a fast-drying polyurethane-based semi-gloss black coating with fine particles of rubber that adds class to any plane.....P/N 05-04366 .....**$58.99**

3M™ SAFETY WALK SHEET

A durable, mineral coated, non-slip fabric for wing walks. Waterproof, weatherproof and unaffected by vibrations, heat, cold, gasoline or oil. Assures safe footing. Pressure-sensitive backing should have additional coating of Pliobond to assure adhesion for aircraft applications. Sold by lineal foot.

12” Width (3M).....P/N 09-32250 .... **$10.50 /Ft.**
1/2 pt. .....P/N 09-28000 .....**$19.50**
1 pt. .....P/N 09-28100 .....**$40.75**
1 qt. .....P/N 09-28200 .....**$52.75**

3M ™ SAFETY-WALK™ TAPE

High-friction, fine-resilient textured, slip-resistant material. Reverse side coated with pressure-sensitive adhesive protected by a removable liner. Good for wet, barefoot traffic areas. Clear vinyl, light duty, 12 inches wide. Sold by the linear foot.

12” wide Clear .....P/N 09-31650 .....**$10.50**
6” wide White.....P/N 09-31655 .....**$4.65**
12” wide White.....P/N 09-31660 .....**$10.60**
6” wide Black.....P/N 09-31665 .....**$10.85**
24” wide Black .....P/N 09-31675 .....**$24.50**

RAC WING WALK

RAC wing walks are not made from the usual, sandpaper-like material, which can decompose and scratch both the wing surface and your knees. Instead, they use a low profile, synthetic rubber, that combines a comfortable feel with good gripping power.The RAC wing walk comes pre-cut to 26 1/2” x 9 1/2”. Installation is easy with the aggressive, self-adhering backing. Each wing walk comes rolled in its own, 4”x4”x10” box and installation instructions are also provided with each box. Black.....P/N 09-28210 .....**$35.50 ea.**

HEAVY DUTY WING WALK

This is a Heavy duty Non-Skid or Wing Walk material that must be glued in with a heavy duty contact cement, it is used to prevent falls and slips on slippery surfaces and give added traction when needed it is able to be used on steps, wings and many other places around the airplane or hangar. 24” x70”.

P/N 05-11172 .....**$274.95**

MS35769 GASKETS

AN900 (MS35769) annular copper-asbestos gaskets are suitable for temperatures up to 500° F. and pressures up to 200 PSI. Ring width is 1/8"; thickness is 3/32.

AN900 Dash No.	MS35769 Dash No.	I.D. (In.)	Price Each	AN900 Dash No.	MS35769 Dash No.	I.D. (In.)	Price Each
-3	-1	3/16	*	-17	-24	1-1/16	**$1.48**
-4	-2	1/4	**$5.40**	-18	-26	1-1/8	**$1.33**
-5	-5	5/16	**$3.60**	-19	-29	1-3/16	**$2.20**
-6	-6	3/8	**$2.02**	-20	-31	1-1/4	**$1.29**
-7	-8	7/16	**$0.97**	-21	-33	1-5/16	**$13.60**
-8	-9	1/2	**$1.84**	-22	-35	1-3/8	**$1.91**
-9	-10	9/16	**$0.82**	-23	-38	1-7/16	**$13.50**
-10	-11	5/8	**$0.87**	-24	-39	1-1/2	**$2.42**
-11	-13	11/16	**$1.16**	-25	-41	1-9/16	**$2.24**
-12	-15	3/4	**$1.65**	-26	-42	1-5/8	**$4.65**
-13	-17	13/16	**$1.33**	-27	-46	1-11/16	**$6.50**
-14	-18	7/8	**$0.89**	-28	-48	1-3/4	**$1.59**
-15	-20	15/16	**$4.65**	-29	-51	1-13/16	**$3.90**
-16	-21	1	**$1.00**	-30	-52	1-7/8	**$3.35**

Discount Less 20% For 100 Per Size

AN900 GASKET KIT

144 piece kit of copper crush washers in common sizes. Complete with durable plastic case with dividers and size chart..... P/N 05-02220 .**$363.00**
Plastic Case Only..... P/N 13-03017 ...**$20.50**
AN900 Gasket Organizer..... P/N 13-19792 ...**$19.50**
AN900 Gasket Kit (56 Pieces). P/N 05-01880 ...**$89.75**

MS28778 TUBE FITTING BOSS GASKET
(FORMERLY AN6290)

Straight-thread tube fitting boss gaskets are used to provide a seal between straight-thread fittings, such as AN815, and ports of instruments with female straight threads instead of the more common female tapered pipe threads.

Dash No.	Tube O.D.	Price Ea.	Dash No.	Tube O.D.	Price Ea.
-2	1/8	**$2.63**	-10	5/8	**$1.95**
-3	3/16	**$3.35**	-12	3/4	**$3.99**
-4	1/4	**$1.37**	-14	$1.37	**$3.35**
-5	5/16	**$1.73**	-16	1	**$4.65**
-6	3/8	**$2.54**	-20	1-1/4	**$2.74**
-8	1/2	**$3.40**			

AN931 ELASTIC GROMMETS
(MS35489)

Flexible grommets, made of black synthetic rubber to specification MIL-G-3036. Resistant to hot oil & coolant. Used to protect tubing, wiring and control cables where they pass through bulkheads & firewalls.

Part No.	MS35489	ID	OD	Hole Size	Thickness	Price
AN931-2-9	-2	1/8	3/4	9/16	3/16	**$1.03**
AN931-2-16	-3	1/8	1-1/4	1	1/4	**$1.73**
AN931-3-5	-4	3/16	7/16	5/16	3/16	**$0.64**
AN931-3-9	-134	3/16	3/4	9/16	3/16	**$1.19**
AN931-4-7	-6	1/4	5/8	7/16	3/16	**$0.32**
AN931-4-12	-7	1/4	1	3/4	1/4	**$1.22**
AN931-4-16	-8	1/4	1-1/4	1	1/4	**$1.11**
AN931-5-9	-9	5/16	13/16	9/16	5/16	**$0.80**
AN931-5-12	-10	5/16	1	3/4	5/16	**$2.18**
AN931-6-10	-11	3/8	7/8	5/8	5/16	**$0.97**
AN931-6-16	-12	3/8	1-1/4	1	1/4	**$0.72**
AN931-7-11	-13	7/16	15/16	11/16	5/16	**$1.11**
AN931-8-13	-14	1/2	1-1/16	13/16	5/16	**$0.58**
AN931-8-20	-15	1/2	1-1/2	1-1/4	1/4	**$0.80**
AN931-9-13	-16	9/16	1-1/16	13/16	5/16	**$0.68**
AN931-10-14	-17	5/8	1-1/8	7/8	5/16	**$1.37**
AN931-10-20	-18	5/8	1-1/2	1-1/4	1/4	**$2.28**
AN931-11-16	-19	11/16	1-5/16	1	3/8	**$1.03**
AN931-12-17	-20	3/4	1-3/8	1-1/16	3/8	**$0.92**
AN931-12-20	-135	3/4	1-5/8	1-1/4	1/4	**$2.12**
AN931-12-23	-21	3/4	1-13/16	1-7/16	3/8	**$7.50**
AN931-14-20	-22	7/8	1-5/8	1-1/4	7/16	**$1.74**
AN931-16-22	-23	1	1-3/4	1-3/8	7/16	**$1.61**
AN931-20-38	-25	1-1/4	2-3/4	2-3/8	7/16	**$13.50**

MS29513 FUEL RESISTANT O-RINGS

These MS29513 series O-rings are resistant to fuel and are ideal for applications such as fuel injection connections and primers. A small amount of fuel proof grease applied to these O-rings helps the installation and operation of primers. Not resistant to automotive fuels.

Part Number	Nominal Size			Price Each
	I.D.	O.D.	Width	
MS29513-005	3/32	7/32	1/16	**$0.86**
MS29513-006	1/8	1/4	1/16	**$0.83**
MS29513-007	5/32	9/32	1/16	**$0.54**
MS29513-008	3/16	5/16	1/16	**$0.58**
MS29513-009	7/32	11/32	1/16	**$0.56**
MS29513-010	1/4	3/8	1/16	**$0.86**
MS29513-011	5/16	7/16	1/16	**$0.65**
MS29513-012	3/8	1/2	1/16	**$1.11**
MS29513-013	7/16	9/16	1/16	**$0.68**
MS29513-014	1/2	5/8	1/16	**$0.68**
MS29513-015	9/16	11/16	1/16	**$1.12**
MS29513-016	5/8	3/4	1/16	**$1.52**
MS29513-017	11/16	13/16	1/16	**$1.41**
MS29513-020	7/8	1	1/16	**$0.90**
MS29513-028	1-3/8	1-1/2	1/16	**$1.25**
MS29513-031	1-3/4	1-7/8	1/16	**$2.53**
MS29513-033	2	2-1/8	1/16	**$2.16**
MS29513-110	3/8	9/16	3/32	**$0.67**
MS29513-111	7/16	5/8	3/32	**$0.67**
MS29513-112	1/2	11/16	3/32	**$0.79**
MS29513-113	9/16	3/4	3/32	**$0.69**
MS29513-114	5/8	13/16	3/32	**$0.78**
MS29513-115	11/16	7/8	3/32	**$0.68**
MS29513-116	3/4	15/16	3/32	**$6.50**
MS29513-130	1-5/8	1-13/16	3/32	**$1.73**
MS29513-137	2-1/16	1/4	3/32	**$2.39**
MS29513-138	2-1/8	2-5/16	3/32	**$2.35**
MS29513-148	2-3/4	2-15/16	3/32	**$2.96**
MS29513-155	4	4-3/16	3/32	**$4.85**
MS29513-214	1	1-1/4	1/8	**$1.37**
MS29513-220	1-3/8	1-5/8	1/8	**$1.69**
MS29513-232	2-3/4	3	1/8	**$3.35**
MS29513-233	2-7/8	3-1/8	1/8	**$3.35**
MS29513-237	3-3/8	3-5/8	1/8	**$4.35**
MS29513-264	7-1/2	7-3/4	1/8	**$18.65**
MS29513-337	3-3/8	3-3/8	3/16	**$5.35**
MS29513-338	3-1/8	3-1/2	3/16	**$3.70**
MS29513-339	3-1/4	3-5/8	3/16	**$6.50**
MS29513-241	3-7/8	4-1/8	1/8	**$5.35**

M25988 O-RINGS

M25988 O-Rings, these O-Rings are intended for packing and are oil & fuel resistant.

Description	Part No	Price
M25988/1-022 Packing O-Ring	08-10778	**$6.50**
M25988/1-212 Packing O-Ring	08-10779	**$6.50**
M25988/1-928 Packing O-Ring	08-10782	**$14.50**
M25988/1-010 Packing O-Ring	05-12763	**$1.21**
M25988-1-022 Packing O-Ring	04-03839	**$2.63**
M25988-1-114 Packing O-Ring	04-02534	**$3.85**
M25988/1-212 Packing O-Ring	04-03831	**$4.80**
M25988/1-904 Packing O-Ring	04-03884	**$0.78**
M25988/1-905 Packing O-Ring	04-03885	**$0.67**
M25988/1-916 Packing O-Ring	04-03832	**$6.60**
M25988/1-928 Packing O-Ring	04-03841	**$6.50**
M25988/1-916 Packing O-Ring	04-03832	**$6.60**
M25988/1-928 Packing O-Ring	04-03841	**$6.50**

AP

AN6227B O-RINGS

AN6227B and AN6230B 0-rings are manufactured to Spec. MIL-P 25732 for use in hydraulic systems using MIL-0-5606 hydraulic oils. MS28775 O-rings meet Spec. MIL-P- 5510A and are suitable for MIL-0-5606 hydraulic fluid at 160 F.

Part No.	MS Equivalent	Width	ID	OD	Price
AN6227B-1	MS28775-6	1/16	1/8	1/4	**$0.85**
AN6227B-2	MS28775-7	1/16	5/32	9/32	**$0.78**
AN6227B-3	MS28775-8	1/16	3/16	5/16	**$1.23**
AN6227B-4	MS28775-9	1/16	7/32	11/32	**$0.58**
AN6227B-5	MS28775-10	1/16	1/4	3/8	**$1.15**
AN6227B-6	MS28775-11	1/16	5/16	7/16	**$1.34**
AN6227B-7	MS28775-12	1/16	3/8	1/2	**$1.08**
05-04892	MS28775-13	1/16	7/16	9/16	**$0.86**
05-04893	MS28775-14	1/16	1/2	5/8	**$1.52**
05-04646	MS28775-015	1/16	9/16	11/16	**$1.12**
05-04894	MS28775-16	1/16	5/8	3/14	**$1.45**
05-04895	MS28775-17	1/16	11/16	13/16	**$1.07**
05-04896	MS28775-18	1/16	3/4	7/8	**$0.86**
05-04897	MS28775-19	1/16	13/16	15/16	**$1.16**
05-04898	MS28775-20	1/16	7/8	1	**$1.69**
05-04899	MS28775-21	1/16	11/16	1-1/16	**$0.74**
MS28775-022	MS28775-022	1/16	1	1-1/8	**$1.32**
05-04901	MS28775-23	1/16	1-1/16	1-3/16	**$1.40**
05-04902	MS28775-24	1/16	1-1/8	1-1/4	**$1.52**
05-04903	MS28775-25	1/16	1-3/16	1-5/16	**$1.22**
05-04911	MS28775-026	1/16	1-1/4	1-3/8	**$1.37**
05-04912	MS28775-027	1/16	1-5/16	1-7/16	**$1.29**
05-04913	MS28775-028	1/16	1-3/8	1-1/2	**$2.23**
AN6227B-8	MS28775-110	3/32	3/8	9/16	**$0.68**
AN6227B-9	MS28775-111	3/32	7/16	5/8	**$1.32**
AN6227B-10	MS28775-112	3/32	1/2	11/16	**$1.27**
AN6227B-11	MS28775-113	3/32	9/16	3/4	**$1.07**
AN6227B-12	MS28775-114	3/32	5/8	13/16	**$0.74**
AN6227B-13	MS28775-115	3/32	11/16	7/8	**$1.23**
AN6227B-14	MS28775-116	3/32	3/4	15/16	**$0.89**
05-04914	MS28775-117	3/32	13/16	1	**$1.21**
MS28775-118	MS28775-118	3/32	7/8	1-1/16	**$1.03**
05-04915	MS28775-119	3/32	15/16	1-1/8	**$1.11**
05-04916	MS28775-120	3/32	1	1-3/16	**$1.03**
05-04917	MS28775-121	3/32	1-1/16	1-1/4	**$1.61**
05-04918	MS28775-122	3/32	1-1/8	1-5/16	**$1.27**
05-04919	MS28775-123	3/32	1-3/16	1-3/8	**$1.18**
05-04920	MS28775-124	3/32	1-1/4	1-7/16	**$1.09**
05-04921	MS28775-125	3/32	1-5/16	1-1/2	**$1.44**
05-04922	MS28775-126	3/32	1-3/8	1-9/16	**$1.43**
05-04923	MS28775-127	3/32	1-7/16	1-5/8	**$1.41**
05-04924	MS28775-128	3/32	1-1/2	1-11/16	**$3.35**
05-04925	MS28775-129	3/32	1-9/16	1-3/4	**$3.50**
05-04926	MS28775-130	3/32	1-5/8	1-13/16	**$1.85**
05-04927	MS28775-131	3/32	1-11/16	1-7/8	**$1.70**
05-00850	MS28775-132	3/32	1-3/4	1-15/16	**$2.87**
05-05142	MS28775-134	3/32	1-7/8	2-1/16	**$2.13**
05-05143	MS28775-135	3/32	1-15/16	2-1/8	**$2.17**
05-05144	MS28775-136	3/32	2	2-3/16	**$2.17**
05-05145	MS28775-137	3/32	2-1/16	2-1/4	**$2.30**
05-05146	MS28775-138	3/32	2-1/8	2-5/16	**$2.28**
05-05147	MS28775-139	3/32	2-3/16	2-3/8	**$2.38**
05-05148	MS28775-140	3/32	2-1/4	2-7/16	**$2.23**
05-05149	MS28775-141	3/32	2-5/16	2-1/2	**$2.39**
05-05150	MS28775-142	3/32	2-3/8	2-9/16	**$2.35**

Part No.	MS Equivalent	Width	ID	OD	Price
05-05151	MS28775-143	3-32	2-7/16	2-5/8	**$2.54**
05-05152	MS28775-144	3/32	2-1/2	2-11/16	**$2.70**
05-05153	MS28775-145	3/32	2-9/16	2-3/4	**$2.45**
05-05154	MS28775-146	3/32	2-5/8	2-13/16	**$2.70**
05-05155	MS28775-147	3/32	2-11/16	2-7/8	**$3.35**
05-05156	MS28775-148	3/32	2-3/4	2-15/16	**$3.35**
05-05157	MS28775-149	3/32	2-13/16	3	**$2.67**
AN6227B-15	MS28775-210	1/8	3/4	1	**$1.19**
AN6227B-16	MS28775-211	1/8	13/16	1-1/16	**$1.34**
AN6227B-17	MS28775-212	1/8	7/8	1-1/8	**$1.19**
AN6227B-18	MS28775-213	1/8	15/16	1-3/16	**$2.07**
AN6227B-19	MS28775-214	1/8	1	1-1/4	**$1.25**
AN6227B-20	MS28775-215	1/8	1-1/16	1-5/16	**$1.43**
AN6227B-21	MS28775-216	1/8	1-1/8	1-3/8	**$1.88**
AN6227B-22	MS28775-217	1/8	1-3/16	1-7/16	**$1.62**
AN6227B-23	MS28775-218	1/8	1-1/4	1-1/2	**$1.58**
AN6227B-24	MS28775-219	1/8	1-5/16	1-9/16	**$2.07**
AN6227B-25	MS28775-220	1/8	1-3/8	1-5/8	**$1.77**
AN6227B-26	MS28775-221	1/8	1-7/16	1-11/16	**$1.87**
AN6227B-27	MS28775-222	1/8	1-1/2	1-3/4	**$2.01**
05-01013	MS28775-233	1/8	2-7/8	3-1/8	**$3.50**
05-05158	MS28775-236	1/8	3-1/4	3-1/2	**$4.65**
05-05159	MS28775-237	1/8	3-3/8	3-5/8	**$4.90**
05-05160	MS28775-238	1/8	3-1/2	3-3/4	**$4.90**
05-05161	MS28775-239	1/8	3-5/8	3-7/8	**$4.65**
05-05162	MS28775-240	1/8	3-3/4	4	**$3.40**
05-05163	MS28775-241	1/8	3-7/8	4-1/8	**$2.61**
05-05164	MS28775-242	1/8	4	4-1/4	**$5.35**
05-05165	MS28775-243	1/8	4-1/8	4-3/8	**$3.95**
04-03882	MS28775-244	1/8	4-1/4	4-1/2	**$6.50**
05-05166	MS28775-245	1/8	4-3/8	4-5/8	**$2.72**
05-05167	MS28775-246	1/8	4-1/2	4-3/4	**$5.35**
05-05168	MS28775-247	1/8	4-5/8	4-7/8	**$6.65**
MS28775-261	MS28775-261	1/8	6-3/4	7	**$17.50**
MS28775-267	MS28775-267	1/8	8-1/4	8-1/2	**$12.50**
MS28775-272	MS28775-272	1/8	9-1/2	9-3/4	**$14.50**
AN6227B-28	MS28775-325	3/16	1-1/2	1-7/8	**$2.23**
AN6227B-29	MS28775-326	3/16	1-5/8	2	**$3.65**
AN6227B-30	MS28775-327	3/16	1-3/4	2-1/8	**$5.35**
AN6227B-31	MS28775-328	3/16	1-7/8	2-1/4	**$5.35**
AN6227B-32	MS28775-329	3/16	2	2-3/8	**$3.35**
AN6227B-33	MS28775-330	3/16	2-1/8	2-1/2	**$3.35**
AN6227B-34	MS28775-331	3/16	2-1/4	2-5/8	**$4.65**
AN6227B-35	MS28775-332	3/16	2-3/8	2-3/4	**$4.90**
AN6227B-36	MS28775-333	3/16	2-1/2	2-7/8	**$4.65**
AN6227B-38	MS28775-335	3/16	2-3/4	3-1/8	**$4.65**
AN6227B-39	MS28775-336	3/16	2-7/8	3-1/4	**$5.35**
AN6227B-40	MS28775-337	3/16	3	3-3/8	**$13.55**
AN6227B-41	MS28775-338	3/16	3-1/8	3-1/2	**$6.70**
AN6227B-42	MS28775-339	3/16	3-1/4	3-5/8	**$6.50**
AN6227B-43	MS28775-340	3/16	3-3/8	3-3/4	**$15.50**
AN6227B-44	MS28775-341	3/16	3-1/2	3-7/8	**$6.50**
AN6227B-45	MS28775-342	3/16	3-5/8	4	**$6.50**
AN6227B-46	MS28775-343	3-16	3-3/4	4-1/8	**$4.65**

AN6230B O-RINGS

Part No.	MS Equivalent	Width	ID	OD	Price
AN6230B-1	MS28775-223	1/8	1-5/8	1-7/8	**$3.90**
AN6230B-2	MS28775-224	1/8	1-3/4	2	**$1.44**
AN6230B-3	MS28775-225	1/8	1-7/8	2-1/8	**$2.34**
AN6230B-4	MS28775-226	1/8	2	2-1/4	**$2.28**
AN6230B-5	MS28775-227	1/8	2-1/8	2-3/8	**$2.87**
AN6230B-6	MS28775-228	1/8	2-1/4	2-1/2	**$2.67**
AN6230B-7	MS28775-229	1/8	2-3/8	2-5/8	**$6.50**
AN6230B-8	MS28775-230	1/8	2-1/2	2-3/4	**$2.96**
AN6230B-9	MS28775-231	1/8	2-5/8	2-7/8	**$2.79**
AN6230B-10	MS28775-232	1/8	2-3/4	3	**$7.50**

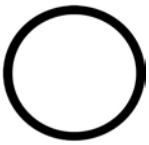
VITON MS83248 O-RINGS

Fluorocarbon rubber o-rings. Fluorocarbon rubber is commonly known as Viton. It is an advanced rubber that has extremely good fuel and heat resistance and is ideally suited for aircraft fuel system applications.

Model	Specifications	Part No	Price
M83248/1-006	1/8 ID X 1/4 OD X 1/16 W	05-22191	**$0.78**
M83248-1-008	3/16 ID x 5/16 OD x 1/16 W	05-12761	**$1.07**
M83248-1-010	1/4 ID x 3/8 OD x 1/16 W	04-03305	**$1.07**
M83248-1-011	5/16 ID x 7/16 OD x 1/16 W	08-13085	**$1.16**
M83248-1-015	9/16 ID x 11/16 OD x 1/16 W	04-03836	**$1.04**
M83248-1-019	13/16 ID x 15/16 OD x 1/16 W	05-14681	**$1.08**
M83248-1-111	7/16 ID x 5/8 OD x 3/32 W	04-02549	**$1.18**
M83248-1-113	9/16 ID x 3/4 OD x 3/32 W	04-02551	**$1.21**
M83248/1-115	11/16 ID x 7/8 OD x 3/32 W	04-03837	**$1.27**
M83248-1-117	13/16 ID x 1 OD x 3/32 W	08-10794	**$1.21**
M83248/1-120	1 ID x 1-3/16 OD x 3/32 W	04-03833	**$1.52**
M83248/1-126	1-3/8 ID x 1-9/16 OD x 3/32 W	04-03835	**$1.91**
M83248/1-143	2-7/16 ID x 2-5/8 OD x 3/32 W	04-03840	**$3.35**
M83248/1-224	1-3/4 ID x 2 OD x 1/8 W	04-03842	**$3.35**

800-0001-6 PACKING SEAL

The 800 Series Lock-O-Seal is a two piece combination seal comprised of a separately molded O-ring fitted within a surrounding metal washer. These Lock-O-Seals are intended to seal beneath the head of a fastener .....P/N 05-14698 .....**$13.50**



M83461/1-222 MILITAR NITRILE O-RING

Used in MIL-H-5606 Fluid; Aircraft Hydraulic Fluid. Better dynamic performance than MS28775. Excellent resistance to petroleum-based products; hydraulic fluids; most silicone fluids; and fuels. Excellent resistance. Dimensions: (1-1/2 ID X 1-3/4 OD X 1/8 W)
P/N 04-03601 .....**$2.30**

AS3569-232 O-RING

O-Ring AS3569-232. (2-3/4 ID X 3 OD X 1/8 W).
P/N 04-02528 .....**$5.35**

MS28776M2-22 METAL SCRAPER RING

P/N 05-15260 **$38.50**

AP

NAS1611 O-RINGS

O-rings give effective sealing over wide ranges of pressure, temperature, and movement, with the advantage of sealing pressure in both directions and reducing friction and wear on moving parts. The use of O-rings as gaskets or static seals permits metal-to-metal contact and allows almost unlimited pressures under extreme vibration.

Part No	MS Equivalent	Width	ID	OD	Price
NAS1611-220	MS28775-220	1/8	1-3/8	1-5/8	**$1.92**
NAS1611-268	MS28775-268	1/8	8-1/2	8-3/4	**$29.70**

AN901 O-RINGS

AN901 tube connection seals are fabricated from type1100 alum., H14 temper.
Discount Less 20% For 100 Per Size

AN901 Dash No.	Tube O.D.	Price Each	AN901 Dash No.	Tube O.D.	Price Each
-4A	1/4	**$3.40**	-8A	1/2	**$0.58**
-5A	5/16	**$2.70**	-10A	5/8	**$0.93**
-6A	3/8	**$0.98**	-12A	1-1/16	**$0.54**
-4C	1/4	**$6.50**	-10C	5/8	**$5.40**
-5C	5/16	**$8.99**	-12C	3/4	**$12.50**
-6C	3/8	**$17.50**	-16A	1	**$2.12**

AN/MS O-RING KIT

This AN/MS O-Ring Kit includes over 382 O-rings made of Nitrile Buna N 70 duro material. These rings have a temperature range of -6 to 275°F and are for use with petroleum oils and fluids. Size range in kit is 0 through 30.(O-Ring Set An6227B-1, -30).....P/N 05-02210 ..... **$292.95**

AS568A O-RING KIT

- 70 Duro Nitrile
- 382 O rings
- Great kit for the homebuilder
- Sizes: -06 to -32 ....P/N 13-02804 .....**$47.65**

TIE RODS - GROMMET EDGING

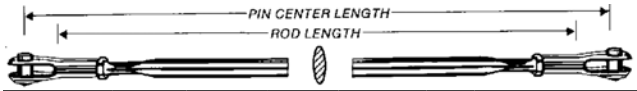
AP

BRUNTON TIE RODS

These high quality aircraft wires and terminals are manufactured in Scotland by Bruntons Aero Products who first originated streamline wires in 1909. They feature the stronger rolled threads and are available in high polish or satin finish. Material is 316 high tensile stainless steel. Wires are also available in BSF or metric threads. Special wires with combination streamline and round section commonly used for biplane roll wires or seaplane float installations are available. Wires are manufactured to AN specifications and are 100% proof loaded. Wires ordered with terminal assemblies are supplied assembled. Quality certifications are provided with all orders.

Aircraft tie rods carry tensile loads for bracing wings, tail assemblies as well as float installations. They may be ordered separately or with terminal assemblies (AN665 terminal, clevis pin, jam nut, cotter pin). AN specs define thread lengths as well as a fixed difference in length between rod length and pin center length (K). Order pin center lengths ONLY when AN665 terminals are used on both ends of the wire. All other installations must order rod length. Due to fluctuations in international exchange rates, the prices of Brunton tie rods are subject to change. We guarantee the lowest prices and fastest delivery on all Brunton tie rods. Request current pricing. Allow 8-10 weeks for delivery of Brunton tie rods.

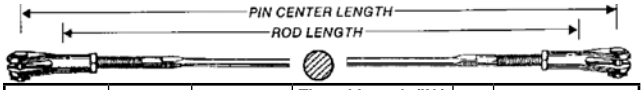
STREAMLINE TIE RODS



AN Number	Size & Thread	Diameter Inches	Thread Length (IN.) RH	Thread Length (IN.) LH	K	Minimum Strength Pounds
AN671AC-	6-40	.138	1 3/4	1 1/4	1 1/4	1,200
AN673AC-	10-32	.190	1 7/8	1 3/8	1 1/2	2,400
AN674AC-	1/4-28	.250	2 1/8	1 5/8	1 7/8	4,200
AN675AC-	5/16-24	.3125	2 1/4	1 3/4	2 1/8	6,900
AN676AC-	3/8-24	.375	2 3/8	1 5/8	2 1/4	10,000
AN677AC-	7/16-20	.4375	2 5/8	2 1/8	2 1/2	13,700
AN678AC-	1/2-20	.500	2 7/8	2 3/8	2 7/8	18,500
AN679AC-	9/16-18	.5625	3 1/8	2 5/8	3 1/4	24,000
AN680AC-	5/8-18	.625	3 3/8	2 7/8	3 1/2	29,500
AN682AC-	3/4-16	.750	3 3/4	3 1/4	4 3/8	42,000

CALL FOR CURRENT PRICING!

ROUND TIE RODS



AN Number	Size & Thread	Diameter Inches	Thread Length (IN.) RH	Thread Length (IN.) LH	K	Minimum Strength Pounds
AN701AC-	6-40	.138	1 3/4	1 1/4	1 1/4	1,000
AN703AC-	10-32	.190	1 7/8	1 3/8	1 1/2	2,100
AN704AC-	1/4-28	.250	2 1/8	1 5/8	1 7/8	3,400
AN705AC-	5/16-24	.3125	2 1/4	1 3/4	2 1/8	6,100
AN706AC-	3/8-24	.375	2 3/8	1 7/8	2 1/4	8,000
AN707AC-	7/16-20	.4375	2 5/8	2 1/8	2 1/2	11,500
AN708AC-	1/2-20	.500	2 7/8	2 3/8	2 7/8	15,500

CALL FOR CURRENT PRICING!

SEALS-IT GROMMET SEALS

Grommet seals have many applications. In race cars they serve to keep unwanted smoke and fumes from entering the driver's area while protecting lines from chafing and abrading on rough surfaces. In hot rods and custom car applications, they provide the perfect "finishing touch" to all through panel installations. Wiring, fuel and oil lines, air and liquid hoses, and all other lines that make up your rod or custom, can make an otherwise detailed installation look unfinished. Seals-It grommet seals add the well-organized, professional appearance you want. Grommet seals also have many other applications including: marine, commercial equipment, motor homes, etc.

Grommet Seal 1 Hole Series			
Dia.	Hole	Part No.	Price
1.5"	n/a	05-02493	**$18.99**
2.0"	n/a	05-02494	**$20.50**
3.0"	n/a	05-02495	**$31.50**
3.0"	.250	05-02496	**$24.50**
3.0"	.375	05-02497	**$36.60**
3.0"	.500	05-02498	**$35.85**
3.0"	.625	05-02499	**$22.50**
3.0"	.750	05-02501	**$31.50**
3.0"	.950	05-02502	**$21.95**
3.0"	1.180	05-02503	**$39.85**
4.0"	n/a	05-02504	**$36.50**
4.0"	1.00	05-02505	**$48.50**
4.0"	1.80	05-02506	**$57.75**
4.5"	1.50	05-02507	**$61.75**
4.5"	2.12	05-02508	**$71.75**
6.0"	n/a	05-02509	**$64.75**

Grommet Seal 2 Hole Series			
Dia.	Hole	Part No.	Price
All Rubber Blank 5-1/4"		05-02510	**$58.75**
1-1/2"	2.125	05-02511	**$58.75**
2 Hole Blank 5-1/4"		05-02512	**$58.75**
2 Hole Blank 5-1/4"		05-2519	**$58.75**
1/4"	2.750	05-02520	**$87.99**
3/8"	2.750	05-02521	**$58.75**
1/2"	2.750	05-02522	**$58.75**
5/8"	2.750	05-02523	**$58.75**
3/4"	2.750	05-02524	**$58.75**
1"	2.750	05-02525	**$58.75**
.700	3.625	05-0252	**$59.75**

SPRING-FAST® GROMMET EDGING

SL Series **BAP Series** **MS22529/1** **MS22529/2**

Spring-Fast® Composite Grommet Edging covers sharp edges of panels that come in contact with wire and cables and mechanically lock on indefinitely with finger pressure in only seconds per foot. They provide a significant time reduction in assemblies. A long-term reliability solution that replaces nylon caterpillar plastic grommets and associated solvents, adhesives, and ancillary materials to protect critical equipment from failure due to wire chaffing.

Spring-Fast® Grommet Edging is approved by the FAA and U.S. Department of Defense per NASM 22529/a and NASM 22529/2 for all aircraft applications. Meets FAR 25.853 for flammability and MIL 1344 for shock and vibration. Spring-Fast® is available for 8 different sheet thickness ranges from 0.025 to 0.260 and can be purchased in either 10 piece packs of 12.75" long pieces, or 25 or 100-foot reels. Use Spring-Fast® BAP and SL series for flanged lightning hole and three-axis contours. The BAP Series Flexi-Grommet is perfect for roll formed edges and small lightening holes. Where wires are routed in the same plain as the sheet metal, the Spring-Fast® SL Series provides a trim characteristic for all edges with or without cabling nearby.

MFG Number	Sheet Thickness	Package Size	Our Part No.	Price Ea.
M22529/2-1R	.025-.036	Per Foot	05-00673	**$10.50**
M22529/2-1C-10PK	.025-.036	10pcs/12.75"l	05-00674	**$101.80**
M22529/2-2R	.036-.063	Per Foot	05-00675	**$10.50**
M22529/2-2C-10PK	.036-.063	10pcs/12.75"l	05-00676	**$91.75**
M22529/2-3R	.059-.074	Per Foot	05-00677	**$10.50**
M22529/2-3C-10PK	.059-.074	10pcs/12.75"l	05-00678	**$91.75**
M22529/2-4R	.070-.093	Per Foot	05-00679	**$10.50**
M22529/2-4C-10PK	.070-.093	10pcs/12.75"l	05-00680	**$94.90**
M22529/2-5R	.090-.111	Per Foot	05-00681	**$9.50**
M22529/2-5C-10PK	.090-.111	10pcs/12.75"l	05-00682	**$93.75**
M22529/2-6R	.105-.134	Per Foot	05-00683	**$10.50**
M22529/2-6C-10PK	.105-.134	10pcs/12.75"l	05-00684	**$93.75**
M22529/2-7R	.178-.198	Per Foot	05-00685	**$11.75**
M22529/2-8R	.240-.260	Per Foot	05-00688	**$12.50**
M22529/2-8C-10PK	.240-.260	10pcs/12.75"l	05-00690	**$116.99**

See aircraftspruce.ca for our complete selection of grommet edging

BAP SERIES GROMMET EDGE

Spring-Fast® BAP Flexi Wire Protection Grommet® Series has all the attributes of the "T" and "BT" Series grommet edging, but has greater gripping strength for severe shock and vibration environments with 4-axis flexibility. Heat continuous to 185°F (85°C) Low Temperature to -40°F (-40° C) High Corrosion Resistance UL94 V-0 Flammability Rating Superior Dielectric Strength High Shock and Vibration Resistance to rms G 41.7 Multi-axis flexibility for rounded inside and outside corners Continuous Edge Protection on Flanged Holes, 1/8" or greater Inside Radius and 1/4" or greater Outside Radius.

SL SERIES GROMMET EDGE

Sold by the foot or in a 10 foot roll. Spring-Fast® SL Series plastic trim has similar attributes of the "AP" and "BAP" Series grommet edging. Features: Substrate: Stainless Steel, Flammability rating: UL94 V-0, RoHS Compliant, DFARS Compliant, Multi axis flexibility, Heat continuous to 185°F (85°C), Low temperature to -40°F (-40°C), Indoor or outdoor use

High gripping strength, High corrosion resistance, High dielectric strength, High shock and vibration resistance per rms G 41.7, Multi-axis flexibility for rounded inside and outside corners, Continuous edge protections on flanged holes, 1/8" or greater inside radius and 1/4" or greater outside radius. Color: Black

SEE WWW.AIRCRAFTSPRUCE.CA FOR SL AND BAP SERIES P/N'S & PRICING

SPRING-FAST® INSTALLATION PRODUCTS

Description	Part No.	Price
DTI Shears 830 PS	05-04446	**$61.75**
Grommet Scale 860GSB	05-04448	**$24.50**
Roller Installation Tool 840R	05-04449	**$20.65**

SPECIAL SPRING-FAST FULL BYPASS CUT-OFF SHEARS.....P/N 05-00689 ..... **$38.50**

AN100 CABLE THIMBLES

Made of cadmium plated steel or stainless steel per procurement specification MIL T-5677. Used to form sturdy eye end on control cable. Form cable around thimble and secure with Nicopress sleeve.

Cadmium Plated Steel Thimbles			Cable Size	Stainless Steel Thimbles		
AN Part No.	Price Each	Price Per 100		AN Part No.	Price Each	Price Per 100
AN100-3	**$0.35**	**$28.00**	1/16”	AN100C-3	**$0.50**	**$40.00**
AN100-4	**$0.34**	**$27.20**	3/32”,1/8”	AN100C-4	**$0.53**	**$42.40**
AN100-5	**$0.39**	**$31.20**	5/32”	AN100C-5	**$0.69**	**$55.20**
AN100-6	**$0.45**	**$36.00**	3/16”	AN100C-6	**$0.86**	**$68.80**
AN100-7	---	---	7/32”	AN100C-7	---	---
AN100-8	**$1.59**	**$127.20**	1/4”	AN100C-8	**$1.87**	**$149.60**
AN100-12	**$2.28**	**$182.40**	3/8”	AN100C-12	**$7.90**	**$632.00**

AN111 CABLE BUSHINGS

Made of cadmium plated steel. Used in same manner as AN100 cable thimble. **Less 20% for 100**

Dash No.	Cable Size	Price Ea.	Dash No.	Cable Size	Price Ea.
-3	1/16”, 3/32”	**$3.35**	-5	5/32”	**$4.35**
-4	1/8”	**$3.80**	-6	3/16”	**$5.35**

AN115 CABLE SHACKLES

Made of cadmium plated forged steel per specification MIL-S-5675.

AN 115 Dash No.	Shackle Strength Lbs.	Cable Size	Used With		Price Each
			Thimble	Clevis Pin	
-8	800	1/16”	AN100-3	AN393-9	**$20.50**
-21*	2100	3/32”, 1/8”	AN100-4	AN393-11	**$17.70**
-32	3200	5/32”	AN100-5	AN394-15	**$32.50**
-46	4600	3/16”	AN100-6	AN395-17	**$57.85**

***Replaces AN115 - 16.**
DISCOUNT: Less 10% for 12, 15% for 25, 20% for 50 or more. May be assorted.

WIRE ROPE SLEEVES (MS51844)

Oval shaped copper sleeves used in making eye or lap splices in flexible cable. Sleeves are slipped over the two strands of cable to be fastened and are then compressed with special Nicopress hand squeezers. Provides a bond that is even stronger than a standard splice. “18” Series sleeves are plain copper and “28” Series sleeves are zinc plated.

Part No	Nicopress Ref.	Cable Dia.	Material /Finish	Price	
				Each	100
MS51844-42	18-1-C	1/16”	Copper/Plain	**$0.21**	**$17.85**
MS51844-43	18-2-G	3/32”	Copper/Plain	**$0.35**	**$29.75**
MS51844-44	18-3-M	1/8”	Copper/Plain	**$0.83**	**$70.55**
MS51844-45	18-4-P	5/32”	Copper/Plain	**$0.74**	**$62.90**
MS51844-46	18-6-X	3/16”	Copper/Plain	**$1.32**	**$112.20**
MS51844-22	28-1-C	1/16”	Copper/Zinc	**$0.21**	**$16.80**
MS51844-23	28-2-G	3/32”	Copper/Zinc	**$0.24**	**$19.20**
MS51844-24	28-3-M	1/8”	Copper/Zinc	**$0.80**	**$64.00**
MS51844-25	28-4-P	5/32”	Copper/Zinc	**$1.52**	**$121.60**
MS51844-26	28-6-X	3/16”	Copper/Zinc	**$3.35**	**$121.60**

STOP SLEEVES

These copper stop sleeves are used on the ends of bare cables.

Cable Dia.	Model No.	Part No.	Price Ea.
1/16”	ST2-2	04-00899	**$0.82**
3/32”	ST2-3	04-00901	**$1.11**
1/8”	ST2-4	04-00902	**$1.11**
5/32”	ST2-5	04-00903	**$1.52**
3/16”	ST2-6	04-02061	**$1.52**

ROD END SWIVEL BEARING

Permanently lubricated in-line swivel for rod end bearing or clevis fork. For applications where rod needs to swivel in a rotary motion to reduce binding while maintaining a straight line to control or stabilizer rod. For use on 1/2” rod and will fit 1/4” x 28 female rod end or clevis fork.

P/N 05-01021 .....**$32.95**

NAS287 TERMINAL CHAIN

NAS287-25-3 3/32” cable size.....P/N 04-02064 .....**$25.85**
NAS287-25-2 1/16” cable size.....P/N 04-02032 .....**$17.50**
NAS287-35-4 1/8” cable size.....P/N 04-02065 .....**$23.50**

AN481 CLEVIS FORK ROD ENDS (MS27976)

Manufactured of 1035 or 1042 carbon steel and cadmium plated. Minimum tensile strength 65,000 PSI. For welding to steel tubing or riveting to aluminum tubing. All sizes fit inside of 3/8” O.D. x .035 wall steel tubing.

Current Part No.	Old Part No.	Clevis Pin Hole Dia.	Fork Width		Price Each
			Overall	Inside	
MS27976-1	AN481-1P	1/4”	1/2”	17/64”	**$30.50**
MS27976-2	AN481-2P	1/4”	5/16”	9/64”	**$24.50**
MS27976-3	AN481-3P	3/16”	1/2”	17/64”	**$30.50**
MS27976-4	AN481-4P	3/16”	5/16”	9/64”	**$26.95**

AN486 THREADED CLEVIS FORK ROD ENDS (MS27975)

These rods ends are machined from 1035 or 1042 carbon steel and cadmium plated. Minimum tensile strength 65,000 PSI. They are internally threaded 1/4”-28. Used for engine controls.

Current Part No.	Old Part No.	Clevis Pin Hole Dia.	Fork Width		Internal Thread	Price Each
			Overall	Inside		
MS27975-1	AN486-1P	1/4”	1/2”	17/64”	**1/4-28**	**$24.50**
MS27975-2	AN486-2P	1/4”	5/16”	9/64”	**1/4-28**	**$25.55**
MS27975-3	AN486-3P	3/16”	1/2”	17/64”	**1/4-28**	**$26.95**
MS27975-4	AN486-4P	3/16”	5/16”	9/64”	**1/4-28**	**$25.75**
05-01437	AN486-1032 Non-Plated	3/16”	7/16”	3/16”	**10-32**	**$17.50**

AN490 THREADED ROD ENDS

Manufactured of 4130 steel, heat-treated and cadmium plated. Minimum tensile strength 125,000 PSI. For welding to steel tubing or riveting to aluminum tubing.

Part Number	Thread Size	Used With Tube Size	Price Each
AN490HT5P	1/4-28	5/16”x.035	**$27.50**
AN490HT6P	1/4-28	3/8”x.035	**$24.50**
AN490HT8P	1/4-28	1/2”x.035	**$20.60**
AN490HT10P	5/16-24	5.8”x.035	**$24.50**
AN490HT11P	5/16-24	3/4”x.035	**$22.80**
AN490HT14P	3/8-24	3/4” x .035	**$25.70**
AN490HT15P	5/16-24	1/2”x.058	**$26.95**
AN490HT16P	3/8-24	1/2”x.058	**$31.50**

AN665 THREADED CLEVIS TIE ROD TERMINALS

These Zinc plated steel terminals are manufactured to AN specifications, with either right-hand or left-hand threads. Example: P/N AN665-10L has a 6-40 left-hand thread. AN665-34R has a 1/4-28 right-hand thread. Order Terminal Assemblies if locknut, clevis pin, and cotter pin are required along with terminal. Otherwise, only terminals are supplied.
*Note - Cad Plated Terminals are no longer being manufactured due to environmental reasons. Once the cad plated stock is depleted the zinc plated terminals will be shipped. Please note that we cannot guarantee cad plated terminals will be received.

Dash No.		Thread Size	Fork Pin Hole Dia.	Inside Width	Strength (Lbs.)	Rt. only Price Ea.	Lt. only Price Ea.
Right Hand	Left Hand						
-10R	-10L	6-40	.190”	.109”	1200	**$16.50**	**$16.50**
-21R	-21L	10-32	.190”	.150”	2400	**$17.50**	**$17.50**
-34R	-34L	1/4-28	.250”	.203”	4200	**$32.50**	**$32.50**
-46R	-46L	5/16-24	.313”	.203”	4600	**$42.75**	**$40.85**
-61R	-61L	5/16-24	.375”	.203”	6900	**$50.50**	**$50.50**
-80R	-80L	3/8-24	.375”	.266”	10000	**$68.75**	**$68.75**

AN665 TERMINAL ASSEMBLIES

These terminal assemblies include the AN665 terminals plus the appropriate lock nut, clevis pin, and cotter pin.

Description	Part No.	Price	Description	Part No.	Price
AN665-10R	05-02300	**$17.50**	AN665-10L	05-02400	**$17.60**
AN665-21R	05-02500	**$17.95**	AN665-21L	05-02600	**$18.99**
AN665-34R	05-02700	**$33.50**	AN665-34L	05-02800	**$33.50**
AN665-46R	05-02900	**$44.55**	AN665-46L	05-03000	**$43.50**
AN665-61R	05-03100	**$53.85**	AN665-61L	05-03200	**$54.75**
AN665-80R	05-03300	**$71.75**	AN665-80L	05-03400	**$71.80**

CABLE TERMINALS

The finest and best means of attaching fittings to cable. Properly swaged to the cable, these terminals will maintain the minimum rated breaking strength of that cable. These terminals are made of stainless steel alloy having the best swaging and corrosion resistant properties and have a polished finish.

SA110 PLAIN BALL

Meet all requirements for Boeing's BACT14B Plain Ball End Fittings and NAS494 series Plain Ball End Fittings. All balls are manufactured from stainless steel as specified in MIL-DTL 781 and are certified to the appropriate standard(s).

Dash No.	Cable Dia.	Sphere Dia.	Strength Lbs.	Price
2	1/16	.188	80	**$1.18**
3	3/32	.250	735	**$1.59**
4	1/8	.312	1200	**$2.18**
5	5/32	.375	1680	**$6.50**
6	3/16	.437	2520	**$10.50**

MS20664C BALL & SINGLE SHANK

Dash No.	Cable Dia.	Sphere Dia. after Swage	Breaking Strength Lbs.	Price
2	1/16	.190	480	**$0.76**
3	3/32	.253	920	**$1.11**
4	1/8	.315	2000	**$1.25**
5	5/32	.379	2800	**$1.94**
6	3/16	.442	4200	**$2.70**

MS20663C BALL & DOUBLE SHANK

Dash No.	Cable Dia.	Sphere Dia. after Swage	Breaking Strength Lbs.	Price
2	1/16	.190	480	**$1.80**
3	3/32	.253	920	**$2.70**
4	1/8	.315	2000	**$3.55**
5	5/32	.379	2800	**$6.50**
6	3/16	.442	4200	**$8.50**

MS20667 FORK END

Dash No.	Cable Dia.	Breaking Strength Lbs.	Pin Hole Dia.	Fork Width "G"	Price
2	1/16	480	.190	.093	**$14.85**
3	3/32	920	.190	.108	**$16.50**
4	1/8	2000	.190	.195	**$20.50**
5	5/32	2800	.250	.202	**$24.50**
6	3/16	4200	.313	.260	**$32.50**

MS20668 EYE END

Manufactured from stainless steel in accordance with the requirements of MIL-DTL-781 and are certified to those standards.

Dash No.	Cable Dia.	Breaking Strength Lbs.	Pin Hole Dia.	Eye End Width "J"	Price
2	1/16	480	.190	.088	**$8.50**
3	3/32	920	.190	.103	**$8.50**
4	1/8	2000	.190	.190	**$10.60**
5	5/32	2800	.250	.197	**$14.50**
6	3/16	4200	.313	.255	**$20.50**

MS21259 STUD END

Manufactured from stainless steel to the strict standards of MS21259. They are certified to the MS21259 standard.

Dash No.	Cable Dia.	Breaking Strength Lbs.	Thread Size NF-3	Price
2	1/16	480	6-40	**$8.50**
3	3/32	920	10-32	**$8.50**
4	1/8	2000	1/4-28	**$10.60**
5	5/32	2800	1/4-28	**$11.55**
6	3/16	4200	5/16-24	**$13.50**

Add "RH" or "LH" after dash numbers for right or left hand threads

MS21260 TURNBUCKLE END

Dash No. Short	Price Each	Dash No. Long	Price Each	Cable Dia.	Thread Size	Min. Breaking Strength (lbs)
-S2RH	**$9.50**	-L2RH	**$9.60**	1/16"	6-40	480
-S2LH	**$9.50**	-L2LH	**$6.50**			
-S3RH	**$10.50**	-L3RH	**$10.50**	3/32"	10-32	920
-S3LH	**$10.50**	-L3LH	**$10.85**			
-S4RH	**$11.55**	-L4RH	**$13.50**	1/8"	1/4-28	2000
-S4LH	**$11.55**	-L4LH	**$8.50**			
-S5RH	**$10.50**	-L5RH	**$13.50**	5/32"	1/4-28	2800
-S5LH	**$14.50**	-L5LH	**$13.50**			
-S6RH	**$13.50**	-L6RH	**$17.60**	3/16"	5/16-24	4200
-S6LH	**$14.50**	-L6LH	**$17.60**			

* Universally replaces the canceled AN669 & NAS650 parts identified by the same dash no.
* AN100 thimble not included.
** For short barrels listed above. Use two per assembly.

SA361 EYE END & SA362 FORK END

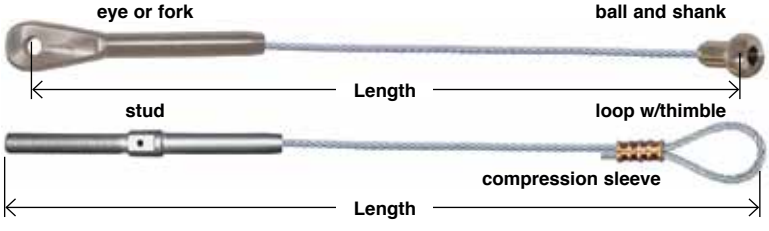
Part No.	Cable	Hole Dia.	Width	Price	Part No.	Cable	Hole Dia.	Width	Price
SA361-2	1/16	.188	.088	**$7.50**	SA362-2	1/16	.188	.093	**$5.35**
SA361-3	3/32	.188	.103	**$9.50**	SA362-3	3/32	.188	.108	**$5.35**
SA361-4	1/8	.188	.190	**$10.50**	SA362-4	1/8	.188	.195	**$7.60**
SA361-5	5/32	.250	.197	**$18.65**	SA362-5	5/32	.250	.096	**$12.50**
SA361-6	3/16	.313	.255	**$23.50**	SA362-6	3/16	.313	.125	**$18.65**

NAS1435 EYE FORKS

Part No.	Cable Dia.	A	B	C	D	E	F	Price
NAS1435K2	1/16	1-1/16	.454	.188	.042	3/8	.093	**$3.95**
NAS1435K3	3/32	1-1/2	.616	.188	.049	7/16	.108	**$6.90**
NAS1435K4	1/8	1-5/8	.638	.188	.093	1/2	.195	**$5.75**
NAS1435K5	5/321	-31/32	.699	.250	.096	9/16	.202	**$12.50**
NAS1435K6	3/16	2-3/16	.750	.313	.125	11/16	.260	**$14.50**

Discounts: All Items This Section: Less 10% For 12 Ea. 15% On 50 Or More (Per Size)

CUSTOM-MADE CABLE ASSEMBLIES



Measure eye and fork terminals from center of pin holes. Measure ball fittings from center of ball. Measure stud terminals from end of terminal. Measure loop with thimble from surface of thimble.

SEE "TOOLS" SECTION FOR KEARNEY PORTABLE SWAGER. CUSTOM-MADE CABLE ASSEMBLIES ARE SPECIAL ORDER AND NON-RETURNABLE.

The terminals featured on this page must be installed with a rotary swaging tool, which is too costly for purchase by a homebuilder or small shop. We offer swaging service and custom-made cable assemblies in cable sizes of 1/16" to 5/32" diameter.

Select the cable fittings of your choice, specify cable size, cable construction, stainless steel or galvanized cable and length. Measure length of cable assembly as shown in the illustration. We will furnish complete cable assembly ready for installation. A simple drawing of the assembly required is appreciated and will expedite shipment.

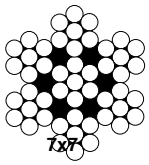
The cost of custom-made cable assembly is base charge (up to 10 ft - **$10.00**, 10 to 20 ft. - **$15.00**, over 20 ft. - **$20.00**), plus the cost of selected fittings and cable plus swages at **$6.95** each. For cable assemblies requiring a third swage, such as an assembly with two end fittings plus a ball swaged at some point on the cable, add **$6.95** plus cost of the ball.

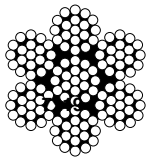
Example: The cost of a 10 ft. long cable assembly using 1/8" 7 x 19 galvanized cable, an MS20667-4 fork end and an MS21259-4RH stud end is 10 x **$1.87/ft.** for cable plus **$20.50** and **$10.60** for the fittings plus **$6.95** per swage + **$10.00** setup = **$41.15** total cost. For added MS20663C-4 ball add **$6.95** for swage plus **$3.55** for ball.

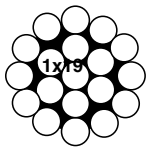
Swaging Service - For cable assemblies requiring swaged fitting on one end only. **$6.95**/swage plus cost of cable, fittings, and the base charges as described above.

Nicopress Swages - Performed for **$4.95**/Swage plus cost of Nicopress sleeve and the base charges described above. **TOLERANCE -** ±1/8"

Custom Cable Assemblies are fabricated in House by Aircraft Spruce for Prompt Shipment.







CONTROL CABLE

- **Galvanized** - MIL-DTL-83420 replaces MIL-2-83420
- **Stainless** - MIL-DTL-83420 replaces both Galvanized & Stainless

Cable Dia. (In.)	Construction	Breaking Strength		Part Number		Price/Ft.	
		Galv.	Stainless	Galv.	Stainless	Galv.	Stainless
1/16	7x7	480 lbs.	480 lbs.	05-03600	05-03500	**$1.11**	**$1.37**
1/16	7X19	--	480 lbs.	----	05-15069	**----**	**$2.18**
3/32	7x7	920 lbs.	920 lbs.	05-03800	05-03700	**$1.21**	**$1.25**
3/32	7x19	1000 lbs.	920 lbs.	05-04000	05-03900	**$1.73**	**$3.40**
1/8 (Right Lay)	1x19	2100 lbs.	2100 lbs.	----	05-04100	**----**	**$1.80**
1/8	7x19	2000 lbs.	1760 lbs.	05-04400	05-04300	**$1.87**	**$2.25**
5/32 (Right Lay)	1x19	--	3300 lbs.	----	05-04500	**----**	**$2.90**
5/32	7x19	2800 lbs.	2400 lbs.	05-04800	05-04700	**$2.60**	**$4.65**
3/16	7x19	4200 lbs.	3700 lbs.	05-05000	05-04900	**$2.61**	**$4.35**
1/4	7x19	7000 lbs.	6400 lbs.	05-05200	05-05100	**$2.34**	**$4.70**

COATED CONTROL CABLES

Description	Part No.	Price/ft.
1/16" 7x7 Black Coated Stainless Steel	15-06042	**$1.09**

CONTROL CABLE SPECIFICATIONS

- **7 X 7 FLEXIBLE CONTROL CABLE -** Has seven strands of seven wires each. Used for control purposes where extreme flexibility is not required but where abrasion is a factor.
- **7 X 19 FLEXIBLE CONTROL CABLE -** Has seven strands of 19 wires each. Its greater metallic area makes it stronger than 7 x 7 cable. Because of its fine wires the best service is obtained where abrasion is not too severe. These same wires, however, make it flexible to meet severe bending.
- **1 X 19 NON-FLEXIBLE CABLE -** Is one strand of 19 wires. It has more metallic area than 7 x 7 or 7 x 19 constructions which makes it the strongest but also the least flexible. 1 x 19 is generally used for bracing purposes, drag and anti-drag wires. It is often used with swage type terminals.
- The major difference between aircraft and commercial cable is the lubrication applied to aircraft cable, which provides substantially better fatigue life than non-lubricated commercial cable. Aircraft cable requires extensive extra testing, documentation, certification to meet military specifications. Aircraft Spruce obtains its aircraft cable from domestic sources and the cable is certified to MIL Spec MIL, W-83420 and QPL Certified.

AP

PRESTRETCHED CABLES

Prestretched cables are a product where the cable has been placed under a load in a reel to reel supplemental operation where either a 50% or 60% load, depending on either Stainless(50%) or Galvanized(60%) material, for a 5 second period. This is done in accordance with MIL-DTL-5688.

Cable Dia.	Con-struction	Galv. Strength	SS Strength	Galv. Part No.	Galv. Per Ft.	SS Part No.	SS Per Ft.
1/16"	7X7	480	480	05-11286	**$1.18**	05-11445	**$1.52**
3/32"	7X7	920	920	05-11287	**$1.32**	05-11446	**$1.52**
3/32"	7X19	1000	920	---	**---**	05-11447	**$2.71**
1/8"	7X19	2000	1760	05-11289	**$2.28**	05-11448	**$3.35**

CABLE FAIRLEADS

Nylon construction for external use. Two halves with retaining clip.

3/4"O.D. x 3/4" L .....P/N 05-05500 ..... **$5.40 Set**

3/4"O.D. x 1" L .....P/N 05-05600 ..... **$5.35 Set**

Clips Only.....P/N 05-05700 ..... **$0.83 Ea.**

SEE TOOL SECTION FOR CABLE TENSIOMETERS

PIPER J-3 CABLE FAIRLEAD

Cable Fairleads are ideal for homebuilts and others. Fits standard 7/8" x .058 round tube. Sold as a set.
FAA Approved.....P/N 05-15051 .....**$4.35**

WING STRUT ADJUSTMENT FORK & BARREL SETS

Conforms to AD. 81-25-05. The heavy-duty, high tensile strength strut fork has rolled threads, an improved alloy with heartier design for added strength, and a permanent indentification mark to provide assurance of conformity for ease in field installation. Forks require a five year inspection per A.D. 93-10-06.

FAA/PMA. J-3 & PA-11. Replacement for 13770-00. Includes bolt, nut, cotter pin & jam nut. Measures 5/16" bolt hole. Measures 7/16" x 20 thread NF3.
P/N 05-06000 .....**$144.75**

FAA/PMA. J-5 & PA-12, 14, 18, 20 & 22. Replacement for 4481-02. Includes bolt, nut, cotter pin & jam nut. 3/8" bolt hole. Measures 7/16" x 20 thread.
P/N 05-06100 .....**$136.75**

PIPER J-3 WING STRUT BARRELS

P/N 05-22928 .....**$103.75**

CESSNA FLIGHT CONTROL CABLES

These FAA-PMA approved cable assemblies are available in stainless or galvanized cable and are constructed of highest quality U.S. made materials. All components are fully traceable and each assembly is load tested and length stabilized. Over 2000 cable assemblies in stock. Custom cable assemblies can be fabricated to your specification.

- **AS0510105 Series for Cessna 170, 172, 180, 182, and 185**
- **AS0400107 Series for Cessna 150, and 152**
- **AS1660300 Series for Cessna 188**
- **AS62701 Series for Piper PA28, PA32, and PA34**
- **ACA Series for Schweizer G-164**

Call the Cessna/Piper parts specialist at 1-877-4SPRUCE with your Cessna or Piper cable assembly part number for pricing or for assistance in determining the part number you require for your aircraft.

BEECH FLIGHT CONTROL CABLES

McFarlane Beechcraft flight control cables and chains are coated with a corrosion inhibiting compound that meets Military Specification MIL-PRF-16173. This is the same compound used on all factory original Beechcraft flight control cables.FAA/PMA

Model	Part No.	Price
MCNAS30327-0590 Tab Actuating	05-04625	**$274.95**
MCNAS30434-1520	05-04624	**$337.00**
MC33-524000-17	05-06981	**$344.00**
MC35-524385	05-06985	**$333.00**
MC35-524651-1	05-06986	**$288.95**
MCNAS31414-1871	05-06987	**$249.95**
MCNAS31514-1871	05-06988	**$249.95**
MCNAS30425-0100	05-06989	**$198.75**

PUSHROD THREADED END FITTING

Fits 5/8" diameter pushrods. 1/4 - 28 threaded hole. Secure to aluminum pushrod with two cross riveted or bolted fasteners. Made from 6061-T6 5/8" diameter x 1-5/8" long rod. Two sizes available.
Fits: 5/8" x .049" tube .....P/N 05-01140 .....**$15.90**
Fits: 5/8" x .058" tube .....P/N 05-01150 .....**$26.95**

PUSHROD FORKED END FITTING

Fits 5/8" diameter pushrods. 3/16" pivot hole with .090" wide slot for bellcrank. Secure to aluminum pushrod with two cross riveted or bolted fasteners. Made from 6061-T6 5/8" diameter x 2-3/8" long rod. Two sizes available.
Fits: 5/8" x .049" tube .....P/N 05-01120 .....**$17.50 ea.**
Fits: 5/8" x .058" tube .....P/N 05-01130 .....**$31.50 ea.**

RUDDER CABLE FAIRING SETS FOR RV'S

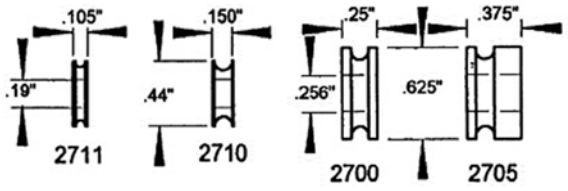
Pre-formed .025" thick aluminum fairings for rudder cable exit on RV fuselages. (None are supplied with the RV kits). Set contains (2) identical fairings - 1 for use on cables and 1 spare (could be used on elevator trim). Each will require some trimming to fit before riveting.
P/N 12-00635 .....**$21.55**

SADDLES - FITTINGS - TANGS - BRACKETS

ALUMINUM SADDLE

Specs: Fits 1.63 inch I Base OD 1.0 inch I Hole 0.266 inch I Height 0.125 inch Super-tough saddles. Made of aluminum.
P/N-Type 4315/I .....P/N 04-00927 ..... **$5.80**

CABLE FITTINGS



1/16" Cable, Steel, AN111-3 .....P/N 05-01939 ..... **$3.45**
3/32" Cable, Aluminum.....P/N CF2700..... **$3.40**
3/32" Cable, Aluminum.....P/N CF2705..... **$3.35**
1/16" Cable, Stainless, AN111C-3 .....P/N CF2710S **$3.35**

ELBOW FITTINGS

These are tube fittings used to assemble parts to an ultralight frame. No specific ultralight or application.
1" x .083" .....P/N 15-05250 ..... **$11.75**
1" x .058" .....P/N 15-05249 ..... **$11.75**

NYLON WASHERS

05-01969 05-01970

Model	Part No.	O.D.	I.D.	Thickness	Price Ea.
NW2059	05-01970	.875	.256	.031	**$0.79**
NW2055	05-01969	.256	.500	.060	**$0.80**

CONTROL CABLE FAIRINGS

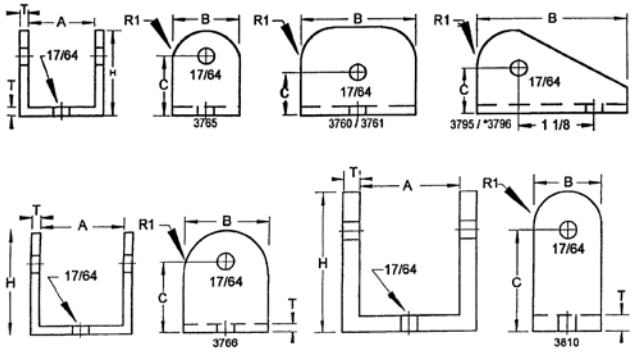
Injection molded ABS plastic fairings used to cover hole in airframe where control cables emerge such as the rudder cables at the rear of the fuselage. May be installed on any airframe surface but is most normally used on fabric covered aircraft where they are bonded on with fabric cement and covered with a fabric patch .....P/N 05-05750... **$8.50 pair**

TANGS

Made of 304 stainless steel. All measurements are in inches.

No.	Maxair	Description	T	A	B	C	D	Part No.	Price
3	T11-DFT	3-Hole Flat	14G	1.91	1.09	.26	.26	05-02077	**$5.50**
	T8-DFT	3-Hole Flat	12G	1.91	1.09	.32	.26	05-02078	**$5.35**
	T9-DAT	3-Hole Bent	14G	1.86	1.04	.26	.26	05-02079	**$3.60**

ALUMINUM BRACKETS



Model	Part No.	A	B	C	H	T	R1	ALLOY	Each
B3772	05-01930	.500	.750	.500	.750	.125	---	6061-T6	**$5.80**
B3765	05-01928	1.000	1.000	.875	1.250	.125	.500	6063-T5	--
B3760	05-01926	1.000	1.750	.625	1.250	.125	.500	6063-T5	--
B3761	05-01927	1.000	1.750	.906	1.250	.125	.750	6063-T5	**$10.50**
B3795	---	1.000	2.250	.670	1.250	.125	.500	6063-T5	--
B3766	05-01929	1.250	1.250	1.062	1.500	.125	.750	6063-T5	**$8.99**
B3796	---	1.250	2.375	.875	1.500	.125	.500	6063-T5	--
B3810	05-01931	1.500	1.000	1.500	2.000	.250	.500	6061-T6	--

PLASTIC ID TUBE CAPS

Series PD Plugs, designed for use on flared JIC fittings, air knurled for ease of application. They will seal low pressure requirements with light finger tightening. PD plugs can be used to seal 37° flare fittings without gaskets. **Model:** TC4112 **Maxair:** EC-10
Fits Tube Size: 2 x .049.....P/N 05-02091 ..... **$3.80**

PLUG BUTTONS

Nickel Plated Plug Buttons.

Manufacture Part No.	Hole Size	Head Diameter	Panel Thickness	Material	Finish	Part Number	Price
3750	1/4"	13/32"	0.035-0.062"	Steel	Nickel	04-04112	**$1.12**
3751	3/8"	1/2"	0.037-0.078"	Steel	Nickel	04-04113	**$1.32**
3752	1/2"	21/32"	0.037-0.062"	Steel	Nickel	04-04114	**$1.34**
3753	5/8"	13/16"	0.062-0.078"	Stainless Steel	--	04-04115	**$1.90**
3754	3/4"	15/16"	0.037-0.093"	Steel	Nickel	04-04116	**$1.83**
3755	7/8"	1-1/16"	0.031-0.093"	Stainless Steel	--	04-04117	**$1.91**
3756	1"	1-1/8"	0.062-0.093"	Stainless Steel	--	04-04118	**$2.16**
10231	1-1/4"	1-7/16"	0.062-0.093"	Steel	Nickel	04-04119	**$6.50**
10232	1-1/2"	1-21/32"	0.038-0.141"	Steel	Nickel	04-04120	**$7.50**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

TURNBUCKLE COMPONENTS

TURNBUCKLES COMPLETE ASSEMBLIES

Complete turnbuckle assemblies consist of a brass barrel and two steel ends, one with right-hand thread and the other with left-hand thread. Order by proper AN number and add dash number and a letter to indicate length and strength required.

AN130 ASSEMBLY

AN135 ASSEMBLY

AN140 ASSEMBLY

AN150 ASSEMBLY

AN 146 Assembly consists of 1 - AN 155 barrel, 1-AN161 Fork and 1 MS21260 Turnbuckle End.

Complete turnbuckle assemblies consist of a brass barrel and two steel ends, one with right-hand thread and the other with left-hand thread. Order by proper AN number and add dash number and a letter to indicate length and strength required.

Part No.	Length	Strength (Pounds)	Price
AN130-8S	4-1/2	800	**$53.75**
AN130-16S	4-1/2	1600	**$46.60**
AN130-16L	8	1600	**$54.90**
AN130-22S	4-17/32	2200	**$50.50**
AN130-32S	4-19/32	3200	**$49.50**
AN130-32L	8-7/64	3600	**$66.95**
AN130-46S	4-21/32	4600	**$83.75**
AN130-46L	8-5/32	4600	**$87.99**
AN130-61L	8-9/32	6100	**$234.95**
AN135-8S	4-1/2	800	**$51.75**
AN135-16S	4-1/2	1600	**$40.55**
AN135-16L	8	1600	**$45.55**
AN135-22S	4-17/32	2200	**$45.55**

Part No.	Length	Strength (Pounds)	Price
AN135-32S	4-19/32	3200	**$48.50**
AN135-32L	8-7/64	3200	**$57.75**
AN135-46S	4-21/32	4600	**$83.75**
AN135-46L	8-5/32	4600	**$90.75**
AN135-61L	8-9/32	6100	**$191.80**
AN140-8S	4-1/2	800	**$51.75**
AN140-16S	4-1/2	1600	**$37.95**
AN140-16L	8	1600	**$45.50**
AN140-22S	4-1/2	2200	**$44.85**
AN140-22L	8	2200	**$55.90**
AN140-32S	4-1/2	3200	**$48.50**
AN140-32L	8	3200	**$55.90**
AN140-46S	4-1/2	4600	**$79.75**

Part No.	Length	Strength (Pounds)	Price
AN140-46L	8	4600	**$89.75**
AN140-61L	8	6100	**$155.90**
AN150-8S	4-1/2	800	**$54.75**
AN150-16S	4-1/2	1600	**$54.75**
AN150-16L	8	1600	**$64.90**
AN150-22S	4-17/32	2200	**$55.90**
AN150-22L	8-1/32	2200	**$67.75**
AN150-32S	4-19/32	3200	**$56.75**
AN150-32L	8-7/64	3200	**$77.99**
AN150-46S	4-21/32	4600	**$85.75**
AN150-46L	8-5/32	4600	**$87.75**
AN150-61L	8-9/32	6100	**$259.95**
AN150-80L	8-5/16	8000	**$208.95**

AN155 BARREL

AN161 FORK

AN165 PIN EYE

AN170 CABLE EYE

TURNBUCKLE PARTS DIMENSIONS

The "R" or "L" following the dash number designates "right" or "Left." The "S" or "L" (2nd letter following dash number) indicates "short" or "long." AN 161 Fork and AN 170 Cable Eye are available with either right or left-hand thread.

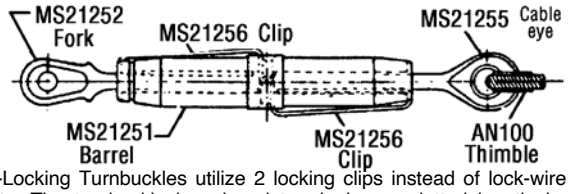
Dash No.	Thread Size	AN 155 Barrel		AN 161 Fork		AN 165 Pin Eye		AN170 Cable Eye	
		"L"	"B"	"G"	"D"	"J"	"D"	"J"	"A"
-8S	6-40	2-1/4	.250	.109	.188	.125	.188	.125	.188
-16S	10-32	2-1/4	.344	.156	.188	.1625	.188	.188	.219
-16L	10-32	4	.344	.156	.188	.1625	.188	.188	.219
-22S	1/4-28	---	---	.187	.188	.188	.188	.188	.219
-22L	1/4-28	---	---	.187	.188	.188	.188	.188	.219
-32S	1/4-28	2-1/4	.438	.218	.250	.219	.250	.219	.281
-32L	1/4-28	4	.438	.218	.250	.219	.250	.219	.281
-46S	5/16-24	2-1/4	.500	.250	.313	.281	.313	.281	.313
-46L	5/16-24	4	.500	.250	.313	.281	.313	.281	.313
-61L	3/8-24	---	---	.270	.375	.281	.375	.281	.344
-80L	3/8-24	4	.625	.312	.375	.328	.375	.328	.375

TURNBUCKLE PARTS PRICES

AN155 Dash No.	Barrel Price Each	TURNBUCKLE ENDS			
		Dash No.	Price Each		
			AN 161	AN 165	AN 170
-8S	**$14.50**	-8RS	**$20.50**	**$19.50**	**$18.65**
-8S	**$14.50**	-8LS	**$20.50**	**$19.50**	**$18.65**
-16S	**$10.95**	-16RS	**$21.95**	**$15.90**	**$13.75**
-16S	**$10.95**	-16LS	**$21.95**	**$15.90**	**$13.75**
-16L	**$13.70**	-16RL	**$25.90**	**$16.50**	**$16.50**
-16L	**$13.70**	16LL	**$25.90**	**$16.50**	**$15.90**
		-22RS	**$21.50**	**$16.50**	**$15.90**
		-22LS	**$21.50**	**$16.50**	**$15.90**
		-22RL	**$25.90**	**$20.50**	**$13.50**
		-22LL	**$25.90**	**$20.50**	**$20.50**

AN155 Dash No.	Barrel Price Each	TURNBUCKLE ENDS			
		Dash No.	Price Each		
			AN 161	AN 165	AN 170
-32S	**$13.75**	-32RS	**$24.50**	**$17.55**	**$17.55**
		-32LS	**$24.50**	**$17.55**	**$17.55**
-32L	**$15.90**	-32RL	**$31.50**	**$21.50**	**$20.50**
		-32LL	**$31.50**	**$20.65**	**$20.50**
-46S	**$19.50**	-46RS	**$32.99**	**$32.85**	**$29.70**
		-46LS	**$32.99**	**$32.85**	**$31.50**
-46L	**$20.50**	-46RL	**$34.50**	**$36.60**	**---**
		-46LL	**$32.85**	**$36.60**	**$34.50**
-61L 6.95	**Use -80L**	-61RL	**$137.75**	**$93.85**	**$58.75**
		-61LL	**$82.75**	**$69.75**	**$58.75**
-80L	**$39.50**	-80RL	**$82.75**	**---**	**---**
		-80LL	**$86.75**	**---**	**---**

MS CLIP-LOCKING TURNBUCKLE COMPONENTS



Clip-Locking Turnbuckles utilize 2 locking clips instead of lock-wire for safety. The turnbuckle barrel and terminals are slotted lengthwise to accommodate the locking clips. After the proper cable tension is reached the barrel slots are aligned with the terminal slots and the clips are inserted. The curved ends of the locking clips expand and latch in the vertical slot in the center of the barrel. Build up MS turnbuckle assemblies, similar to the AN assemblies listed on the preceding page, by selecting a turnbuckle barrel, 2 end fittings and 2 clips from the components listed in the Table below. The price of the complete assembly is the sum of the prices shown for the components. Example: An MS turnbuckle assembly for 3/32" dia. cable, with fork end and pin eye consists of:

1 MS21251-B3S Barrel **$7.95**
1 MS21252-3LS Fork End..... **$16.50**
1 MS21254-3RS Pin Eye End..... **$14.50**
2 MS21256-1 Clips ..... **$0.35/ea.**

Less 10% for 6 or more complete assemblies.
Less 15% for 12 or more complete assemblies.
Note: MS21256-1 clips are short (1") and MS21256-2 are long (2").

Turnbuckle Component	Part No.	Cable Dia.	Thread Size	Min. Breaking Strength(lbs)	Price Each
Barrel (supersedes AN155)	MS21251-B2S	1/16"	6-40	800	$15.50
	-B3S	3/32"	10-32	1600	$7.95
	-B5S	5/32"	1/4-28	3200	$17.50
	-B5L	5/32"	1/4-28	3200	$10.65
Fork End (supersedes AN161)	MS21252-2RS	1/16"	6-40	800	$10.99
	-2LS				$10.99
	-3RS	3/32"	10-32	1600	$16.50
	-3LS				$16.50
	-4LL	1/8"	1/4-28		$21.90
	-4LS				$16.50
	-5RS	1/8", 5/32"	1/4-28	3200	$18.70
	-5LS				$18.70
Pin Eye End (supersedes AN165)	MS21254-2RS	1/16"	6-40	800	$19.50
	-2LS				$14.80
	-3RS	3/32"	10-32	1600	$14.50
	-3LS				$14.50
	-5RS	1/8", 5/32"	1/4-28	3200	$13.75
	-5LS				$13.70
Cable Eye (supersedes AN170)	MS21255-2RS Stainless	1/16"	6-40	800	$14.80
	-2LS				$14.80
	-3RS	3/32"	10-32	1600	$12.50
	-C3RS	3/32"	10-32	1600	$11.75
	-3LS				$13.50
	-5RS	1/8", 5/32"	1/4-28	3200	$17.50
	-5LS				$17.50
Cable Swage End (supersedes AN669)	MS21260-S2RH	1/16"	6-40	480	$9.50
	-S2LH				$9.50
	-S3RH	3/32"	10-32	920	$10.50
	-S3LH				$10.50
	-S4RH	1/8"	1/4-28	2000	$11.55
	-S4LH				$11.55
	-S5RH	5/32"	1/4-28	2800	$10.50
	-S5LH				$14.50
Clip*-	MS21256-1	- -	- -	- -	$0.35
	MS21256-2	- -	- -	- -	$0.35

SAFETY WIRE

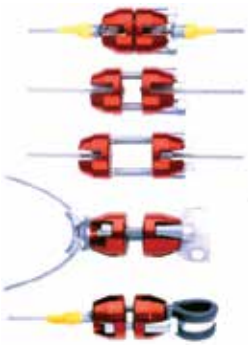
Available in Type 302/304 stainless steel (soft temper) per MS20995. Also, in soft annealed brass per specification QQ-W-321, Type A.Stainless steel safety wire furnished in convenient 1 lb. dispensing container. Annealed brass safety wire is furnished in a convenient 1 lb. dispensing container.

Wire Dia. In.	Wire Type	Part No.	Price Per lb.
.020	Stainless Steel	05-02684	$21.90
.025	Stainless Steel	05-06831	$21.50
.032	Stainless Steel	05-02685	$20.50
.032	Brass	05-02686	$27.60
.041	Stainless Steel	05-02687	$13.75
.041	Brass	05-06600	$26.95
.051	Stainless Steel	05-11922	$17.75

Less 10% on orders for 10 spools, 15% on 25 spools, 20% on 50 spools or more. May be assorted.

25 FT. COIL OF STAINLESS STEEL SAFETY WIRE:
.032" Dia. .....P/N 01-15725 ..... **$2.68**
.041" Dia. .....P/N 01-15825 ..... **$2.61**

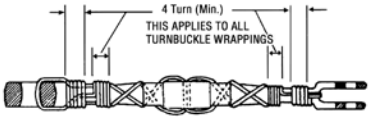
ADJUSTABLE CABLE CONNECTOR



The ACC provides a strong positive connection with tensioning and maximum liner travel in a confined cable installation. Accommodates 3 standard cable terminals, (SA-110 plain ball, MS20664C ball & single shank, and AN111 cable bushing) including combinations of cable-to-cable & cable-to-bracket. It is light & compact without compromising safety. It utilizes an original design of overlapping walls and ridges to enhance the strength of each working surface. The ACC is precision CNC machined 7075 anodized aluminum. Stainless Steel Allen screws work in tandem to provide cable tensioning. 2 stainless tube-nuts provide additional structural security and prevent loosening with interlocking threads. 2 stainless steel pins are locked in place between the adjustment screws and provide an anchor for cable bushings or customized brackets. If necessary, longer adjustment screws can be used to accommodate insufficient cable lengths.
.032, Pin Diameter 1/4" .....P/N 05-01343 ..... **$72.80**

SAFETY METHODS FOR TURNBUCKLES

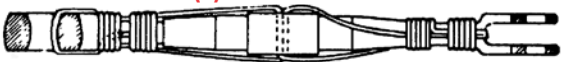
Safety all turnbuckles with .041 dia. annealed safety wire using either the double or single wrap as described and illustrated. Do not reuse safety wire. Adjust the turnbuckle to the correct cable tension so that no more than 3 threads are exposed on either side of the turnbuckle barrel. Do not lubricate turnbuckles.



(A) DOUBLE WRAP (SPIRAL)

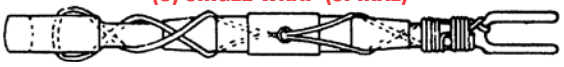
Of the methods using safety wire for safety turnbuckles, the method described here is preferred, although either of the other methods described are satisfactory. The method of double wrap safety is shown in figure (A). Use 2 separate lengths of the proper wire. Run one end of the wire through the hole in the barrel of the turnbuckle and bend the end of the wire towards opposite end of the turnbuckle. Then pass the second length of the wire into the hole in the barrel and bend the ends along the barrel on the opposite side first. Spiral the 2 wires in opposite directions around the barrel to cross each other twice between the center hole and the ends. Then pass the wires at the end of the turnbuckle in opposite directions through the holes in the turnbuckle eyes or between the jaws of the turnbuckle fork as applicable, laying one wire along the barrel and wrapping the other at least four times around shank of the turnbuckle and binding the laid wires in place before cutting the wrapped wire off. Wrap the remaining length of safety wire at least 4 turns around the shank and cut it off. Repeat the procedure at the opposite end of the turnbuckle.

(B) DOUBLE WRAP



Another satisfactory double wrap method is similar to Method A. except that the spiraling of the wires is omitted as shown in figure (B).

(C) SINGLE WRAP (SPIRAL)



The single wrap methods described and illustrated are acceptable but are not the equal of the double wrap methods.
Pass a single length of wire through the cable eye or fork at either end of the turnbuckle assembly. Spiral each of the wire ends in opposite directions around the first half of the turnbuckle so as to cross each other twice. Thread both wire ends through the hole in the middle of the barrel so that the third crossing of the wire ends is in the hole. Again, spiral the two wire ends in opposite directions around the remaining half of the turnbuckle, crossing them twice. Then, pass one wire end through the cable eye or fork in the manner described above, wrap both wire ends around the shank for at least four turns each, cutting off excess wire.

(D) SINGLE WRAP

Pass one length of wire through the center hole of the turnbuckle and bend the wire ends toward opposite ends of the turnbuckle. Then pass each wire end through cable eye or fork and wrap each wire end around the shank for at least four times, cutting off excess wire. After safety, no more than 3 threads of the turnbuckle terminal should be exposed.

PULLEYS

AN210A & AN210B (MS24566)
Anti-Friction Bearing Control Pulley with phenolic body and ball bearing with seal. The AN210A pulleys are dimensionally the same as the "B" pulleys but have metal-shielded bearings rather than removable composition-seal type bearings. The low allowable design load of the -3A and -3B pulleys-is based on cable fatigue. AN210-1A, AN210-3A, AN210-1B and AN210-3B shall not be installed on frequently used aircraft controls to bend the cable more than 15° from a straight line.
MS20220 (AN220) Flight Control Pulley with phenolic body and ball bearing with seal. Also available with aluminum body (MS20220A). The low allowable load limit of the -1 pulley is based on cable fatigue. When used on frequently used aircraft controls the cable wrap angle should not be more than 15° from a straight line.
MS20219 (AN219) Aircraft Secondary Control Pulley with phenolic body and ball bearing with seal. MS20219A (AN219A) Pulley with anodized aluminum body and ball bearing with seal. The aluminum body is recommended for -1 and -3 pulleys. The -1 pulley shall not be installed in flight control systems.
Examples of Part No.: Phenolic Body - MS20219-1
Aluminum Body - MS20219A1
NAS383 Series Pulley with phenolic body and graphite impregnated bronze sleeve. This is a low cost pulley widely used in aircraft, winches, cranes and remote mechanical actuation devices.
A-223 and A-224 Pulleys with plain phenolic bore are used as guide and secondary control pulleys in production aircraft.
BB-128-1 and BB-120-1 Pulleys have high pressure phenolic bodies and ball bearings with Teflon seals. Used in Christavia and many other aircraft.

SPECIAL PULLEYS

1-1/2 Inch Pulley
For smooth control operation. Manufactured for aircraft float rudder operation, the pulleys can be used in virtually any application. Solid UHMW plastic for use in tough, caustic environments. Bushing insert is stainless steel with minimum lubrication required. Used with 1/16" thru 1/8" - 7x7 or 7x19 control cable. Bushing is clamped in pulley bracket. Pulley rotates on bushing. Pulley: 1-1/2" dia. x .283" wide. Bushing: 1/4" O.D. x 3/16" I.D. x .328" long. Weight: .26 oz. (including stainless bushing).....P/N 05-29725 .....**$8.50 ea.**
2 Inch Pulley
Larger cables, bigger job? Wherever you need a tough, durable pulley, look no further.Replace your old worn out, sticky pulleys with NAP UHMW plastic for smooth control operation. Used with 3/32" thru 3/16" - 7x7 or 7x19 control cable. Bushing insert is stainless steel with minimum lubrication required. Bushing is clamped in pulley bracket. Pulley rotates on bushing. Fits DeHavilland Beaver floats Pulley: 2" dia. x .470" wide. Bushing: 5/16" O.D. x 1/4" I.D. x .487" long. Weight: .58 oz. (including stainless bushing).....P/N 05-29730 .....**$11.75 ea.**

PIPER PULLEYS

Fig.	Ref. #	Description	O.D.	I.D.	Part No.	Price
1	41171-000	Pulley, trimcrank with bushing (fiber)	2 3/4"	3/8"	05-02636	**$97.75**
1a	40991-000	Pulley (no slot)	2 3/4"	3/8"	05-02637	**$28.50**
2	41001-008	Pulley w/ bearing (fiber)(41001-010)	2 3/4"	5/16"	05-02638	**$88.75**
3	80421-000	Pulley (fiber)	1 3/4"	1/4"	05-02639	**$20.50**
4	481-609	Pulley (fiber)	1 1/2"	1/4"	05-02640	**$20.50**
5	11200-000	Pulley (fiber)	1 1/8"	1/4"	05-02641	**$22.99**
6	43001-000	Pulley (fiber)	1"	1/4"	05-02642	**$26.50**
7	43061-000	Pulley, stabilizer screw (aluminum)	2 3/4"	3/8"	05-02643	**$156.99**
8	12983-000	Pulley, double groove (aluminum)	2 3/4"	3/8"	05-02644	**$89.75**
9	10080-000	Pulley, trimcrank (aluminum)	2 3/4"	3/8"	05-02645	**$201.95**
10	11008-000	Pulley, adj. screw(alum.) single groove	4"	3/8"	05-02646	**$228.95**
11	12982-000	Pulley, adj. screw (alum.) dbl. groove	4"	3/8"	05-02647	**$170.80**

AIRCRAFT PULLEY OIL

Save the labor of re-oiling the control system every year! Aircraft pulley oil prevents pulley drag and stickiness.
Pully Oil Pint .....P/N 05-04178 .....**$51.75**
Pully Oil Kit - Includes: 1 Pint of Pulley Oil, 1 Needle, 1 Each 4.5" Extension, and 1 Each 8" Extension
P/N 05-04179 .....**$68.95**
Pully Oiler Kit - Includes: 1 Needle oiler with oil, 1 each 4.5" extension & 1 each 8" extension
P/N 05-04180 .....**$24.50**

ALUMINUM PULLEYS

Dimensions of these aluminum pulleys are same as equivalent size of MS20219 and MS20220 Phenolic Pulleys in table.

Part No	Cable Size (in).	OD	Groove Dia	Hub Dia.	Bore Dia.	Width	Price Each
MS20219A1	1/16, 3/32	1.312	1.00	.423	.2500	.438	**$49.55**
MS20219A3	1/16, 3/32	1.750	1.438	.769	.6250	.438	**$114.75**
MS20220A1	1/8, 5/32, 3/16	1.755	1.255	.475	.3125	.625	**$71.75**
MS20220A2	1/8, 5/32, 3/16	3.005	2.505	.115	.3125	.625	**$113.75**
MS20220A3	1/8, 5/32, 3/16	4.255	3.755	.115	.3125	.625	**$126.95**
MS20220A4	1/8, 5/32, 3/16	5.505	5.005	.115	.3125	.625	**$134.90**

PHENOLIC PULLEYS

Part Number	Cable Size (In.)	OD	Groove Dia	Hub Dia.	Bore Dia.	Width	Load Limit (Lbs.)	Price Each
MS24566-1B	1/16,5/64,3/32	1.250	.972	.625	.1900	.297	300	**$39.50**
MS24566-2B	1/16,5/64,3/32	2.500	2.222	.777	.1900	.297	500	**$53.75**
MS24566-3B	1/8,5/32,3/16	2.000	1.510	.901	.2500	.484	600	**$37.50**
MS24566-4B	1/8,5/32,3/16	3.500	3.010	.901	.2500	.484	1200	**$48.99**
MS20219-1	1/16, 3/32	1.312	1.000	.423	.2500	.438	480	**$48.99**
MS20219-2	1/16,3/32	1.750	1.438	.423	.2500	.438	480	**$41.50**
MS20219-3	1/16, 3/32	1.750	1.438	.769	.6250	.438	480	**$65.90**
MS20219-4	1/16, 3/32	2.625	2.312	.423	.2500	.438	920	**$42.50**
MS20220-1	1/8,5/32,3/16	1.755	1.255	.475	.3125	.625	500	**$50.50**
MS20220-2	1/8,5/32,3/16	3.005	2.505	.475	.3125	.625	1680	**$57.80**
MS20220-3	1/8,5/32,3/16	4.255	3.755	.475	.3125	.625	2500	**$66.75**
MS20220-4	1/8,5/32,3/16	5.505	5.005	.475	.3125	.625	2500	**$85.75**
A-223	1/16,3/32,1/8	1.000	.688	---	.2500	.281	---	**$17.50**
A-224	1/16,3/32,1/8	1.750	1.375	---	.2500	.250	---	**$14.99**
A-138 (NAS)	1/16,3/32,1/8	1.250	.875	---	.2500	.265	---	**$17.50**
A-123 (NAS)	1/16,3/32,	2.000	1.500	---	.2500	.265	---	**$17.50**
A-124 (NAS)	1/16, 3/32	2.500	2.000	---	.2500	.265	---	**$21.50**
A-130 (NAS)	1/8, 5/32	2.000	1.375	---	.3750	.438	---	**$15.50**
A-120 (NAS)	5/32, 3/16	3.000	2.375	---	.3750	.438	---	**$25.55**
BB-128	3/16	2.500	1.875	---	.2500	.440	---	**$55.90**
BB-120	3/16	3.000	2.375	---	.2500	.440	---	**$65.75**

MCS378 SERIES PULLEYS FOR CESSNAS

Aircraft Spruce stocks all pulleys required for Cessna single engine aircraft. Our MCS378 series pulleys replace the AN, NAS and S378 series pulleys commonly used on the Cessna aircraft. Pulley kits are available that contain all of the pulleys and cotter pins required for one aircraft.
Approved Replacements for Cessna Pulleys -Cessna Model/Series
120,140,140A,150,A150,A-A150,F150,FA150,FRA150,152,A152,F152,FA152,170,172,F172,FR172,172RG,FP172,P172,R172,175,177,177RG,F177RG,180,182,A182,F182,FR182,R182, TR182,T182,185,A185,188,A188, A A188,T188,205,206,P206,TU206,T206, TP206,U206,207,T207,208,210, P210, T210, T303, 310, T310, 320, 335, 336, 337, F337, P337, FP-337, T337, O-2, 340,401,402,404,411,414,421,425,441,500,501
*Replaces the listed Cessna part numbers in the specific aircraft illustrated parts catalogs. Installer must verify applicability prior to installation.

Model No.*	Replaces Cessna Part No.*	Part No.	Price
MCS378-1	S378-1 and S378-1L	05-03422	**$66.95**
MCS378-2	S378-2, A124, AN210-2B and NAS383-2	05-03423	**$93.75**
MCS378-3	S378-3, S378-3L, A130, AN210-3B, BB-208 and NAS383-3	05-03424	**$58.90**
MCS378-4	S378-4, A114, AN210-4B and NAS383-4	05-03425	**$64.75**
MCS378-5	S378-5	05-03426	**$100.75**

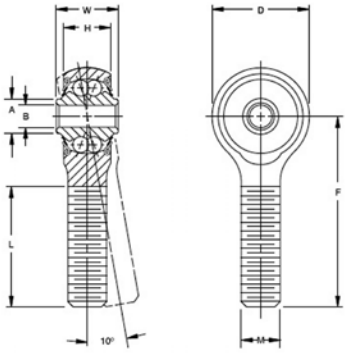
PULLEY KIT FOR CESSNAS

This kit contain all pulleys and cotter pins required to replace all flight control system pulleys in one airplane. Fits many Cessna 172 models. See our website for eligibility list. .....P/N 05-11977 .....**$2,316.00**

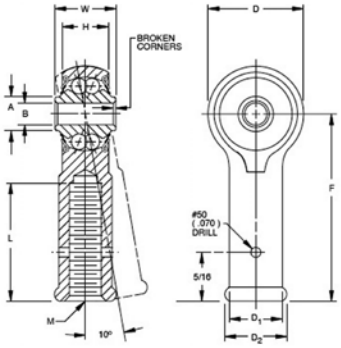
AP

BEARINGS

AN 946 MS 21151
MALE THREADED SHANK

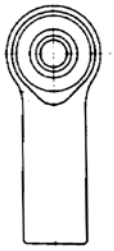


AN 951 MS 21153
FEMALE THREADED SHANK



AN948 HOLLOW SHANK
SOLID SHANK

MS21152
MS21150



AP

Bearing No.	MS Dash No.	B Bore +.0000 -.0005 In.	D Outside Diam. +.010 -.010 In.	W Width Inner Ring +.000 -.010 In.	H Width Outer Ring +.010 -.010 In.	A Shoulder Diam. Inner Ring (Approx.) In.	F Bore Center to end of Shank +.010 -.010 In.	G Overall Dimension +.010 -.010 In.	L Thread Length of Shank Hole Depth In.	J Bead or Hex Diam. Across Flats In.	K Shank Diam. +.010 -.010 In.	M Thread Or Drill Size Inches Size	M Thread Or Drill Size Inches Pitch Diam.	Balls No.	Balls Size	Lbs. Approx.	Weight Type Seal	**Price Each**
MALE THREAD - MS 21151																		
Precision series. Double row, ball, self-aligning. 10° permissible misalignment in either direction. These bearings are manufactured with an internal play of .0004 in. (.010mm) max. Inner and outer raceway surface finish = 8 micro in. AA max. Equipped with PTFE seals. Exposed surfaces except bore, cap, and seals are cadmium plated. Outer shank – 90,000 psi min. tensile strength. Prelubricated (refer to nomenclature page)																		
												10-32	.1697	20	1/8”	.04	Solid Seal	**$94.95**
REP3ML3	-1	.1900	.781	.437	.328	.281	1.375	1.766	.750			LH	.1667					
												10-32	.1697					
REP3MR3	-2	.1900	.781	.437	.328	.281	1.375	1.766	.750			RH	.1667	20	1/8”	.04	Solid Seal	**$107.75**
												3/8”-24	.3479					
REP3M6A	-3	.1900	.969	.500	.407	.304	2.031	2.516	1.313			RH	.3449	24	1/8”	.05	Solid Seal	**$173.75**
												3/8”-24	.3479					
REP3M6-2N	-4	.1900	.781	.437	.328	.281	1.375	1.766	.750			RH	.3449	20	1/8”	.05	Solid Seal	**$82.75**
												3/8”-24	.3479					
REP4M6	-8	.2500	.938	.593	.438	.345	1.875	2.344	1.125			RH	.3449	22	5/32”	.07	Plyo-Seal	**$85.75**
												3/8”-24	.3479					
REP4ML6	-9	.2500	.938	.593	.438	.345	1.875	2.344	1.125			LH	.3449	22	5/32”	.07	Plyo-Seal	**$93.75**
REP5M6	-10	.3125	1.25	.870	.686	.506	2.438	1.563	3/8-24			3/8”-24	.4050			.24		**$148.85**
FEMALE THREAD - MS 21153																		
Precision series. Double row, ball, self-aligning. 10° permissible misalignment in either direction. These bearings are manufactured with an internal play of .0004 in. (.010mm) max. Inner and outer raceway surface finish = 8 micro in. AA max. Equipped with PTFE seals. Exposed surfaces except bore, cap, and seals are cadmium plated. Outer shank – 90,000 psi min. tensile strength. Prelubricated (refer to nomenclature page)																		
												1/4”-28	.2298					
REPB3N*	-1	.1900	.781	.437	.328	.281	1.375	1.766	.750	.438	.375	RH	.2268	20	1/8”	.05	Plyo-Seal	**$114.75**
												5/16”-24	.2884					
REPB3N2***	-2	.1900	.781	.437	.328	.281	1.375	1.766	.750	.438	.438	RH	.2854	20	1/8”	.06	Plyo-Seal	**$137.75**
												1/4”-28						
REP3F4	-3	.1900	.781	.500	.328	.281	1.375	1.766	.750	.438	.375	RH	.2268	20	1/8”	.06	Solid Seal	---
												5/16”-24	.2884					
REP4F5	-6	.2500	.938	.593	.438	.345	1.469	1.938	.750	.438	.438	RH	.2854	22	5/32”	.07	Plyo-Seal	**$143.75**
HOLLOW SHANK - MS 21152																		
REP3H5**	-1	.1900	.781	.437	.328	.281	1.375	1.766	.875		.435		.272	20	1/8”	.06	Plyo-Seal	**$137.75**
RE4H6																	Solid Seal	**$137.80**
REP4H6	-2	.2500	.938	.593	.438	.345	1.875	2.344	1.219		.625		.386	22	5/32”	.12	Plyo-Seal	**$137.80**
REP4H8	-3	.2500	.938	.593	.438	.345	1.625	2.093	.875		.625	33/64	.515	22	5/32”	.08	Plyo-Seal	---
SOLID SHANK MS21150																		
REP3S7	-1	.19	.791	.437	.328	.281	1375				.430		SOLID	22	5/32”	.07	Plyo-Seal	**$127.99**
REP4S10	-2	.2500	.938	.593	.438	.345	1.875	2.344			.625		SOLID	22	5/32”	.16	Plyo-Seal	**$101.80**

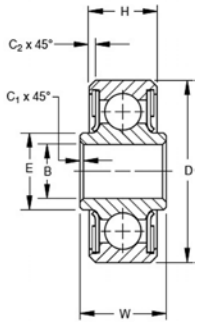
***Dimensionally Same as Heim F34-14**
****Dimensionally Same as Heim F31-14**
*****Dimensionally Same as Heim F35-14**

Bearings with the letter “P” in part number are new manufacture, with Plyoseals.
Bearings without the letter “P” in part number are new surplus, with solid metal seals.

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

KP SERIES—AN200 / MS27640

Single row, ball, heavy duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps, and seals are cadmium plated. Prelubricated for life. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications

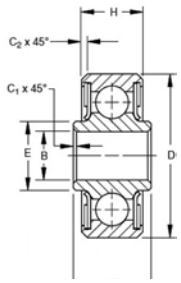


FAFNIR AND MS AFBMA Bearing No.	Bore 27640	B Dia + .0000 - .0005 (in.)	D Outside Inner Ring +.0000 -.0005 (in.)	W Width Outer Ring +.000 -.005 (in.)	H Width Inner +.000 - .005 (in.)	A Shoulder Width Bore Ring (Approx.) (in.)	E Corner Chamfer x 45° Inner Ring O. D. + .015 - .000 (in.)	C Corner Chamfer x 45° Outer Ring +.015 - .000 (in.)	Balls No.	Balls Size	Pure Moment Rating Inch	Moment Constant 1 Lbs.	Weight Pounds Inch (Approx.)	Price Each
KP3L*	-3A	.1900	.6250	.245	.203	.280	.005	.010	10	5/32”	51.8	12.08	.01	**$53.85**
KP3	-3	.1900	.7774	.297	.270	.331	.005	.022	12	5/32”	93.7	10.13	.03	**$31.50**
	-4	.2500	.9014	.484	.335	.390	.005	.032	11	1/4”	130	8.84	.04	**$37.95**
KP5	-5	.3125	1.2500	.558	.375	.469	.015	.032	9	5/16”	335	6.77	.09	**$49.50**
KP6	-6	.3750	1.4375	.620	.469	.591	.015	.032	10	11/32”	580	5.44	.15	**$37.50**
KP8	-8	.5000	1.6875	.620	.500	.768	.015	.044	10	11/32”	1060	4.46	.21	**$54.75**

*** Stainless steel shield (for “Plya-Seals” use KP3A which has same bore and O.D.) Equiv. Thrust Load = Thrust + .8 Radial Load + Moment Constant x Moment in Inch Lbs.**

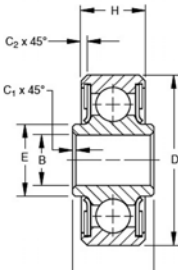
KP-A SERIES—AN201 / MS27641

Single row, ball, deep groove, medium duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps, and seals are cadmium plated. Prelubricated for life. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications



FAFNIR AND MS AFBMA Bearing No.	Bore 27641	B Dia + .0000 - .0005 (in.)	D Outside Inner Ring +.0000 -.0005 (in.)	W Width Outer Ring +.000 -.005 (in.)	H Width Inner +.000 - .005 (in.)	A Shoulder Dia. Bore Ring (Approx.) (in.)	E Corner Chamfer x 45° Inner Ring O. D. +.015 -.000 (in.)	C Corner Chamfer x 45° Outer Ring +.015 -.000 (in.)	Balls No.	Balls Size	Max Static Non-Brinell Rating Radial Lbs.	Max Static Non-Brinell Rating Thrust Lbs.	Pure Moment Rating Inch-Lbs.	Moment Constant 1 Inch	Weight Pounds (Approx.)	Price Each
KP3A	3	.1900	.6250	.297	.234	.297	.005	.016	10	1/8”	800	600	51.8	12.08	.01	**$35.50**
KP4A	4	.2500	.7500	.281	.219	.380	.005	.016	12	1/8”	1100	900	73.8	10.17	.02	**$27.50**
KP5A	5	.3125	.8125	.297	.234	.415	.015	.016	14	1/8”	1300	1000	100	8.76	.02	**$26.95**
KP6A	6	.3750	.8750	.313	.250	.495	.015	.016	16	1/8”	1400	1100	130	7.68	.03	**$20.50**
KP8A	8	.5000	1.1250	.375	.313	.616	.015	.016	16	5/32”	2200	1700	250	6.14	.05	**$45.50**
EW1/2	NORMA	.5040	.9690	.250	.250										.03	**----**

KS SERIES— MS27645

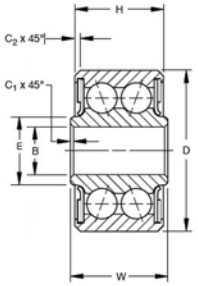


FAFNIR AND MS AFBMA Bearing No.	Bore 27645	B Diameter + .0000 - .0005 (in.)	D Outside Inner Ring +.0000 -.0005 (in.)	W Width Outer Ring +.000 -.005 (in.)	H Width Inner +.000 - .005 (in.)	A Shoulder Width Bore Ring (Approx.) (in.)	E Corner Chamfer x 45° Inner Ring O.D. +.015 -.000 (in.)	C Corner Chamfer x 45° Outer Ring +.015 -.000 (in.)	F (Approx.)	Balls No.	Balls Size	Maximum Static Rating Radial Lbs.	Maximum Static Rating Thrust Lbs.	Weight Pounds (Approx.)	Price Each
KSP3L	3A	.1900	.6250	.245	.203	.257	.005	.016		13	3/32”	400	100	.01	**$32.95**
KSP3	3	.1900	.7774	.297	.270	.342	.005	.022	.275	12	1/8”	800	200	.03	**$36.95**
KSP4	4	.2500	.9014	.484	.335	.400	.005	.032	.408	12	5/32”	1100	300	.04	**$43.50**
KSP5	5	.3125	1.2500	.558	.375	.562	.015	.032	.408	13	3/16”	1400	300	.10	**$53.75**
*KS6A	6A	.3750	.8750	.313	.250	.475	.016	.016	.277	15	1/8”	1000	200	.03	**$41.50**

*** NOTE: These bearings are self-aligning for 10° in either direction except for KS6A (not AN200) which is self-aligning for 8° in either direction.**

DP SERIES—AN207 / MS27644

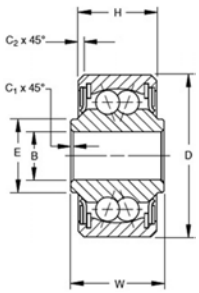
Double row, ball, light and heavy duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps and seals are cadmium plated. Prelubricated for life. For use where high moment rigidity is required, DPP-W series only. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications



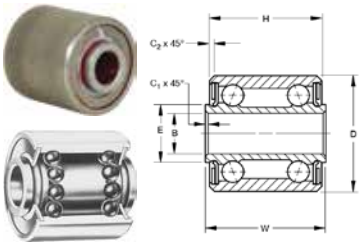
FAFNIR Bearing No.	MS 27644	B Bore +.0000 -.0005 (in.)	D Dia. +.0000 -.005 (in.)	W Outside Inner Ring +.000 -.005 (in.)	H Width Outer Ring +.000 (Approx) (in.)	A Shoulder Width Inner Ring (Approx.) (in.)	E Corner Chamfer x 45° Dia. Bore +.015 -.000 (in.)	C Corner Chamfer x 45° Inner Ring O. D. +.015 -.000 (in.)	Balls No.	Balls Size	Maximum Static Non-Brinell Radial Lbs.	Maximum Static Non-Brinell Thrust Lbs.	Weight Pounds (Approx.)	Price Each
DPP3	-3	.1900	.7774	.495	.473	.302	.005	.02	20	5/32”	2500	1700	.04	**$68.75**
DPP4	-4	.2500	.9014	.620	.491	.410	.005	.032	22	5/32”	3000	1800	.06	**$54.75**
DPP5	-5	.3125	1.2500	.745	.687	.469	.015	.032	20	1/4”	6900	4200	.17	**$87.75**
DPP6	-6	.3750	1.4375	.870	.794	.551	.015	.032	18	5/16”	9700	5800	.26	**---**
DPP8	-8	.5000	1.6875	.932	.856	.735	.015	.044	20	11/32”	13000	7800	.38	**---**

DSP SERIES—AN206 / MS27643

Double row, ball, self-aligning, heavy duty. PTFE seals and CRES sealcaps. Exposed surfaces except bore, caps, and seals are cadmium plated. Prelubricated for life. Also offered with CRES 440C material and/or zinc nickel plating per OEM specifications



FAFNIR Bearing No.	MS 27643	B Bore +.0000 -.0005 (in.)	D Dia. +.0000 -.005 (in.)	W Outside Inner Ring +.000 -.005 (in.)	H Width Outer Ring +.000 (Approx.) (in.)	A Shoulder Width Inner Ring (Approx.) (in.)	E Corner Chamfer x 45° Dia. Bore +.015 -.000 In.	C Corner Chamfer x 45° Inner Ring O. D. +.015 -.000 In.	Balls No.	Balls Size	Maximum Static Non-Brinell Radial Lbs.	Maximum Static Non-Brinell Thrust Lbs.	Weight Pounds (Approx.)	Price Each
DSP3	-3	.1900	.7774	.500	.392	.304	.005	.022	24	1/8”	1420	200	.04	**$66.95**
DSP4	-4	.2500	.9014	.687	.464	.430	.005	.032	30	1/8”	1780	300	.06	**$64.75**
DSP5	-5	.3125	1.2500	.812	.656	.515	.015	.032	28	3/16”	3740	600	.16	**$63.75**
DSP6	-6	.3750	1.4375	.937	.750	.564	.015	.032	28	7/32”	5100	800	.24	**---**
DSP8	-8	.5000	1.6875	1.000	.812	.775	.015	.044	30	1/4”	7120	1000	.36	**---**

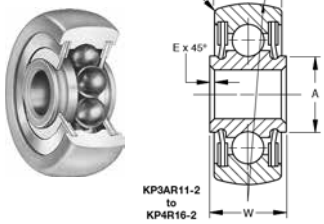


DW SERIES BEARINGS (MS 27647)

- Extra Wide, Double Row, Ball
- Equipped with removable Plya-Seals
- Dimensionally interchangeable with the DW series, the GDW series is lubricatable through holes and a groove in the outer ring.

FAFNIR AND MS AFB MA Bearing No.	Bore 27647	B Diameter +.0000 - .0005 Inches	D Outside Inner Ring +.0000 -.0005 Inches	W Width Outer Ring +.000 -.005 Inches	H Width Inner +.000 - .005 Inches	A Shoulder Width Bore Ring (Approx.) Inches	E Corner Chamfer x 45° Inner Ring O.D. +.015 -.000 Inches	C Corner Chamfer x 45° Outer Ring +.015 - .000 Inches	Balls No.	Balls Size	Pure Moment Rating Inch-Lbs.	Moment Constant 1 Inch	Weight Pounds (Approx.)	Price Each
† DW4K2*	-4A	.2500	.6250	.562	.500	.344	.016	.016	16	3/32”	121	3.49	.025	**$51.75**
DW4K*	-4	.2500	.7500	.875	.750	.435	.005	.016	14	9/64”	365	2.27	.04	**$68.75**
DW5	-5	.3125	.8750	.9375	.8125	.472	.005	.016	26	9/64”	830	1.85	.07	**$68.75**
DW6	-6	.3750	1.0625	1.1875	1.0625	.576	.005	.016	24	3/16”	1830	1.38	.12	**$96.75**
DW8	-8	.5000	1.4375	1.5000	1.3750	.715	.005	.032	22	17/64”	4330	1.07	.29	**$98.75**

EQUIVALENT THRUST LOAD = THRUST + .6 RADIAL LOAD + MOMENT CONSTANT x MOMENT IN INCH-LBS.
***Bearing stamped DW4K. †Bearing stamped DW4K2.**
These bearings are not to be used as track rollers, cam follower rolls and the like.
*** RETAINER TYPE**



SINGLE ROW, BALL, DOUBLE SEATS

- Single row, ball
- Exposed surfaces except bore and shields are cadmium plated
- PTFE seals or CRES shields
- Balls - No. 11, Size 5/32”

FAFNIR AND AFBMA Bearing Number	B Bore +.0000 -.0005 Inches	D Outside Diameter +.000 -.002 Inches	W Width InnerRing +.000 -.005 Inches	H Width OuterRing +.000 -.005 Inches	A Shoulder Diameter Inner Ring (Approx.) Inches	E Corner Chamfer x 45° Inner Ring Bore +.015 -.000 Inches	C Corner Outer Ring O.D. Inches	R Radius Outside Diameter Contour	Maximum Safe Working Load Radial Lbs.	Weight Lbs. (Approx)	Price Each
KP4R16	.2500	.901	.484	.335	.390	.005	.005 x 45°	1.000	400	.04	**$192.90**
KP4R16-2	.2500	1.000	.390	.335	.390	.005	.015 x 45°	.990	500	.06	**$68.90**

The maximum safe working load is that radial load to obtain 100,000 feet peripheral travel life.

GREASE FITTINGS

Surface Check fittings of the MS15000 series have spring-loaded ball check in the tip. Conform to MIL-F-3541.

MS15001-1

MS15001-4

MS15003-5

AS15002-1P

MS No.	AS No.	Price	Surplus No.	Price	Thread	Shank L	Eff. Thread L	Overall L	Tip Angle
MS15001-1	AS15001-1P	**$5.35**	04-02325	**$0.35**	1/4-28 Tapered	3/16”	.109	1/2”	0°
MS15001-2	AS15001-2P	**$6.50**	04-02326	**$1.04**	1/4-28 Tapered	5/8”	.20	31/32”	0°
MS15001-3	AS15001-3P	**$6.50**	04-02327	**$1.04**	1/4-28 Tapered	13/64”	.11	13/16”	45°
MS15001-4	AS15001-4P	**$6.60**	04-02313	**$1.04**	1/4-28 Tapered	3/16”	.109	1/2”	90°
MS15002-1	AS15002-1P	**$4.65**	04-02328	**$0.69**	1/4-28 Tapered	5/32”	.07	33/64”	0°
MS15002-3	AS15002-3P	**$10.50**	04-02329	---	1/4-28 Tapered	1/8”	.07	39/64”	45°
MS15003-1	AS15003-1P	**$6.65**	04-02330	**$0.56**	1/8 NPT	19/64”	.19	11/16”	0°
MS15003-2	AS15003-2P	**$7.60**	04-02331	**$1.73**	1/8 NPT	25/32”	.19	1-1/4”	0°
MS15003-3	AS15003-3P	**$11.75**	04-02332	**$1.87**	1/8 NPT	19/64”	.19	29/32”	30°
MS15003-4	AS15003-4P	**$10.50**	04-02333	**$2.18**	1/8 NPT	19/64”	.19	57/642”	45°
MS15003-5	AS15003-5P	**$8.50**	04-02315	**$0.90**	1/8 NPT	9/32”	.188	31/32”	65°
MS15003-6	AS15003-6P	**$7.80**	04-02314	**$0.96**	1/8 NPT	9/32”	.188	15/16”	90°

ACS BEARING REGREASERS

The ACS bearing regreasers restore bearings, rod ends and pulleys to like-new condition. O-ring in base of regreaser provides positive seal when bearing is secured by the threaded center post. Grease, entering under pressure at the grease fitting, is forced to flow through the bearing, flushing out the old grease and dirt, and recharging the bearing with fresh grease. Available in five sizes. Non-Anodized.

10650-3

10650-4

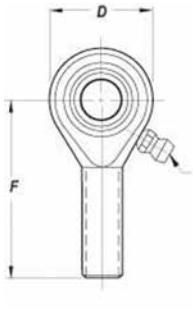
10650-5

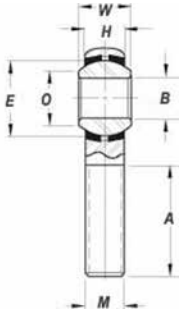
10650-6

Bearing Regreaser Number	Part Number	Bearing Size O.D.	Bearing Size Bore	Price Each
3	10650-3	3/4”	3/16”	**$22.99**
4	10650-4	1”	1/4”	**$27.50**
5	10650-5	1-1/4”	5/16”	**$28.75**
6	10650-6	1-1/2”	3/8”	**$30.50**
8	10650-8	1-1/2”	1/2”	**$38.50**
Complete Set of Five - P/N 12-11500				**$146.75**

LUBRICAPS

These bright red Lubricaps are made of molded rubber and are used as grease fitting covers. The internal lip holds the cap in place and keeps out dirt, sand, and fluids. M-24529 **(20% discount for 100/each)**
P/N 04-01940 .....**$0.93**





HEIM ROD ENDS MALE THREADED
M AND HM SERIES

Rod Ends male threaded (HM M Series)
- Outer Member: Aircraft Quality Carbon Steel, Magnetic particle inspected, with protective coating for corrosion resistance.
- Ball: 52100 Alloy Steel, heat treated, chrome plated.
- Inserts: Brass, 16 size has one piece carbon steel race.

Heim "M" and "MD" series bearings are now manufactured in magnafluxed version only. As old stock is depleted, magnafluxed equivalents will be furnished as substitutes at current (higher) prices unless otherwise requested on the order.

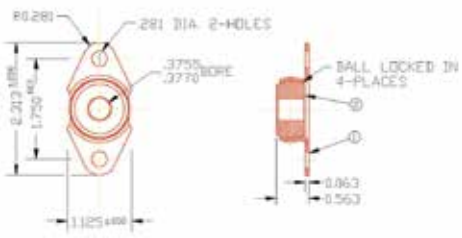
"L" in rod end number designates left hand thread. In this series, the "D" in rod end number (MD35 14) denotes drilled hole in the shank. Add suffix "G" to indicate lubricator is required. Example: HM-SG. Add suffix "FG" lo indicate flush type lubricator is required. Example: M34-14FG. Lubricator (G) (FG) available with minimum qty. required. Please Call for Pricing.

Rod End No.	Equiv. Spherco No.	DIMENSIONS											Max Static Radial Load in Pounds Aprox.	Approx. Weight in Pounds	Price Each
		Bore	ball Width	Housing Width	Ball Flat Diam.	Head Diam.	Length to center of ball	Overall Length	Other Dimensions						
		B	W	H	O	D	F	G	A	N	Ball Diam.	M			
		+.0015 -.0005	+.000 -.005	+.005 -.005		+.010 -.010	+.010 -.010	+.010 -.010	Min	Drill Diam.		Class 3A			
M34-14M	NONE	.1900	.437	.328	.273	.750	1.560	1.935	1.000		33/64	1/4"-28	1,695	.05	**$47.65**
MD35-14M	NONE	.1900	.437	.328	.273	.875	1.375	1.812	.750	#33	33/64	5/16"-24	2,184	.07	---
MDL35-14M										.113		UNF			---
MD36-14M	NONE	.1900	.437	.328	.273	.750	1.375	1.750	.750	#33	33/64	3/8"-24	2,848	.07	**$87.99**
MDL36-14M										.113		UNF			---
MD36-16M	NONE	.1900	.500	.375	.321	.812	1.812	2.219	1.062	#29	19/32	3/8"-24	2,769	.08	**$103.75**
MDL36-16										.136		UNF			---
M44-14	NONE	.2500	.437	.304	.354	.812	1.562	1.968	1.000		9/16	1/4"-28	1,695	.06	**$75.75**
ML44-14												UNF			---
MD46-15	NONE	.2500	.484	.335	.395	.875	2.312	2.750	1.500	#29	5/8	3/8"-24	3,151	.10	---
MDL46-16										.159		UNF			---
HM-2M	NONE	.1250	.250	.187	.187	.469	.937	1.172	.500		5/16	6-32	452	.02	**$75.85**
HM-2AM	NONE	.1562	.281	.219	.249	.562	1.125	1.406	.625		3/8	8-32	666	.02	---
HML-2AM												UNC			---
HM-3M	TRE-3	.1900	.312	.250	.306	.625	1.250	1.563	.750		7/16	10-32	910	.03	---
HML-3M	TREL-3											UNF			---
HM-4M	TRE-4	.2500	.375	.281	.355	.750	1.562	1.937	1.000		33/64	1/4"-28	1,695	.05	---
HML-4M	TREL-4											UNF			---
HM-5M	TRE-5	.3125	.437	.344	.447	.875	1.875	2.312	1.250	#33	5/8	5/16"-24	2,205	.08	**$59.75**
HM-6M	TRE-6	.3750	.500	.406	.517	1.000	1.938	2.438	1.250	#21	23/32	3/8"-24	3,172	.11	**$55.75**
HML-6M	TREL-6									.159		UNF			**$57.80**
HM-7M	TRE-7	.4375	.562	.437	.586	1.125	2.125	2.688	1.375	#21	13/16	7/16"-20	4,633	.16	---
HML-7M	TREL-7									.159		UNF			---
HM-8M	TRE-8	.5000	.625	.500	.698	1.312	2.438	3.094	1.500	#3	15/16	1/2"-20	5,876	.24	**$137.75**
HML-8M	TREL-8									.213		UNF			**$289.95**

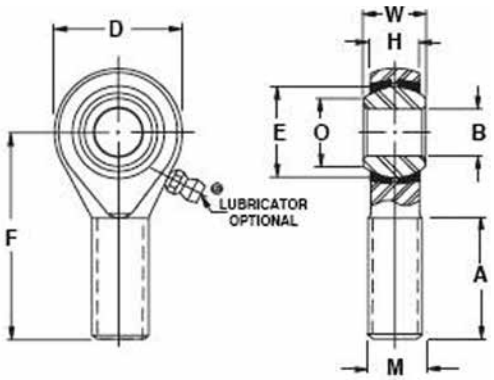
UNF= Universal Fine, UN=Universal Coarse

TRIANGLE MFG. BEARINGS

Manufactured by Triangle Mfg. Co., these bearings are spherical on the outside and are contained in a flanged, stamped metal cage, so they provide sliding, rotating, and pivoting motion. The bearings are available in nylon, bronze, or iron as shown in the table below. The FMN10 is used in the wing roots and on the torque tubes inside the fuselage of the Cozy Mark IV.



Part No.	I.D.	Bearing Material	Price Each	Part No.	I.D.	Bearing Material	Price Each
FMN4	1/4"	Nylon	**$2.97**	FM1408P	1/2"	Bronze	**$6.50**
FMN5	5/16"	Nylon	**$6.50**	FMN10	5/8"	Nylon	**$4.90**
FMN6	3/8"	Nylon	**$1.91**	FM1510P	5/8"	Iron	**$3.40**
FM1406P	3/8"	Bronze	**$7.50**	FM1410P	5/8"	Bronze	**$7.50**
FMN7	7/16"	Nylon	**$2.23**	FMN12	3/4"	Nylon	**$1.21**
FMN8	1/2"	Nylon	**$5.35**	FM1512P	3/4"	Iron	**$2.70**



ROD END MALE THREADED
HMX EXTRA CAPACITY SERIES

SPECIFICATIONS:

Outer Member: SAE 4130 steel heat treated to 175,000 PSI Cadmium Plated.

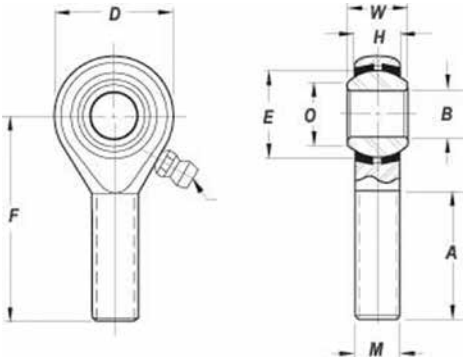
Ball: SAE 52100 Steel, Heat Treated, Chrome Plated.

Inserts: Aluminum Bronze

"L" in rod end number designates left hand thread.
Add letter 'M' to dash number for magnafluxed rod ends.
This series is equipped with lubricators as shown.
Add suffix "FG" to indicate flush type lubricator is required.
Example: HMX-4FG. Additional costs will apply.
Note: See Aurora Bearings page for equivalents to Heim HM & HF Series.

Rod End Number	Equiv. Spherco Number	DIMENSIONS											Maximum Static Load in Lbs. approx		Approx. Weight in Lbs.	Price Ea.
		Bore	Ball Width	Housing Width	Ball Flat Dia.	Head Dia.	Length to Center of Ball	Over-All Length	Other Dimensions							
		B	W	H	O	D	F	G	A	N		M				
		+.0015 -.0005	+.000 -.005	+.005 -.005		+.010 -.010	+.010 -.010	+.010 -.010	Min.	Drill Dia.	Ball Dia.	Class 3A	Radial	Axial		
HMX-4G	ARE 4-20	.2500	.375	.281	.355	.750	1.560	1.937	1.000	#33	33/64	5/16"-24	3,260	1,710	.06	---
HMXL-4G	AREL-20									.113		UNF				---
HMX-5G	ARE- 5-20	.3125	.437	.344	.447	.875	1.375	2.312	1.250	#21	5/8	3/8"-24	4,920	2,376	.09	**$75.75**
												UNF				
HMX-6G	ARE 6-20	.3750	.500	.406	.517	1.000	1.375	2.438	1.250	#21	23/32	7/16"-20	7,240	2,946	.13	**$71.75**
HMX-7G	ARE 7-20	.4375	.562	.437	.586	1.125	1.812	2.688	1.375	#21	13/16	1/2"-20	7,620	3,367	.18	**$303.00**
HMXL-7G	AREL 7-20									.159		UNF				**$1,230.00**
HMX-8G	ARE 8-20	.5000	.625	.500	.698	1.312	1.562	3.094	1.500	#3	15/16	5/8"-18	11,920	4,074	.30	---
HMXL-8G	AREL 8-20									.213		UNF				---

New Surplus HMX-8G ..... P/N 06-01661 ..... **$93.75**



HME SERIES

SPECIFICATIONS:

Outer Member: Carbon steel-protective coated for corrosion resistance.

Ball: Carbon steel-heat treated, chrome plated.

Inserts: Aluminum.

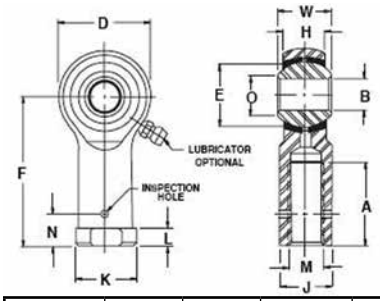
Liner: Self lubricating UNIFLON.

"L" in rod end number designates left hand thread.
"R" in part number indicates woven uniflon. Example: HMR-3.
*Uniflon® — The Heim Universal Corporation's trademark for teflon® lined rod ends and spherical bearings.

Part No.	Thread Type	SEE DIAGRAM ABOVE									Price
		B	W	H	D	F	A	Thread Size	E	O	
HME-3M	Right Hand	.1900	.312	.250	.625	1.250	.750	.1900-32	.437	.306	-
HMLE-3M	Left Hand	.1900	.312	.250	.625	1.25	.750	.1900-32	.437	.306	-
HME-4M	Right Hand	.2500	.375	.281	.750	1.562	1.000	.2500-28	.515	.353	**$114.75**
HMLE-4M	Left Hand	.2500	.375	.281	.750	1.562	1.000	.2500-28	.515	.353	-
HME-5M	Right Hand	.3125	.437	.344	.875	1.875	1.250	.3125-24	.625	.447	-
HMLE-5M	Left Hand	.3125	.437	.344	.875	1.875	1.250	.3125-24	.625	.447	-
HME-6M	Right Hand	.3750	.500	406	1.000	1.938	1.250	.3750-24	.718	.516	-
HMLE-6M	Left Hand	.3750	.500	406	1.000	1.938	1.250	.3750-24	.718	.516	-
HME-7M	Right Hand	.4375	.562	.437	1.125	2.125	1.375	.4375-20	.812	.586	-
HMLE-7M	Left Hand	.4375	.562	.437	1.125	2.125	1.375	.4375-20	.812	.586	-
HME-8M	Right Hand	.5000	.625	.500	1.312	2.438	1.500	.5000-20	.937	.698	-
HMLE-8M	Left Hand	.5000	.625	.500	1.312	2.438	1.500	.5000-20	.937	.698	-

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

ROD ENDS FEMALE THREADED (F & HF SERIES)



SPECIFICATIONS:

Outer Member: Aircraft Quality Steel, Cadmium Plated.

Ball: SAE 52100 Steel.

Inserts: Naval Bronze

"L" in rod end number designates left hand thread. Add suffix "G" to indicate lubricator is required. Example: F35-14G. Add suffix "FG" lo indicate flush type lubricator is required. Example: HF-4FG. Add $3.00 to price for lubricator (G) (FG).

Note: Standard Bearings Furnished Without Inspection Hole. If Hole Needed, Add "M" to P/N & At Higher Cost.

Part No.	Bore	Ball Width	Housing Width	Head Dia.	Length to ctr. of ball	Thread Length	Thread Size	Ball Dia.	Ball Flat Dia.	Other Dimensions			Max Rad. Load	Weight	Price
	B	W	H	D	F	A	M	E	O	K	N	L			
	+.0015 -.0005	+.000 -.005	+.005 -.005	+.010 -.010	+.010 -.010	+.062 -.031	UNF-3B	REF	REF	+.010 -.010	+.020 -.020	+.010 -.010			
FL34-14M	.1900	.437	.328	.750	1.375	.750	.2500-28	.515	.273	.468	.312	.187	2850	.06	**$66.95**
F34-14M	.1900	.437	.328	.750	1.375	.750	.2500-28	.515	.273	.468	.312	.187	2850	.06	---
F347-14M	.1900	.437	.328	.750	1.062	.437	.2500-28	.515	.273	.375	-	-	2850	.05	---
F34-16M	.1900	.500	.375	.812	1.375	.750	.2500-28	.593	.321	.468	.312	.187	2750	.08	**$65.80**
F35-14M	.1900	.437	.328	.750	1.375	.750	.3125-24	.515	.0273	.500	.406	.187	2850	.07	---
FL35-14M	.1900	.437	.328	.750	1.375	.750	.3125-24	.515	.273	.500	.406	.187	2850	.07	**$292.95**
F44-14M	.2500	.437	.304	.812	1.375	.750	.2500-28	.562	.354	.468	.312	.187	2850	.07	**$68.75**
FL44-14M	.2500	.437	.304	.812	1.375	.750	.2500-28	.562	.354	.468	.312	.187	2850	.07	**$82.75**
F45-19M	.250	.593	.438	.938	1.469	.750	.3125-24	.687	.347	.500	.406	.187	3700	.11	**$93.75**
HF-3M	.1900	.312	.250	.625	1.062	.562	.1900-32	.437	.306	.406	-	.187	1850	.03	---
HFL-3M	.1900	.312	.250	.625	1.062	.562	.1900-32	.437	.306	.406	-	.187	1850	.03	---
HF-4M	.2500	.375	.281	.750	1.312	.750	.2500-28	.515	.353	.468.	-	.187	2700	.05	---
HFL-4M	.2500	.375	.281	.750	1.312	.750	.2500-28	.515	.353	.468.	-	.187	2700	.05	**$62.80**
HF-5M	.3125	.437	.344	.875	1.375	.750	.3125-24	.625	.447	.500	-	.187	3350	.08	**$72.80**
HFL-5M	.3125	.437	.344	.875	1.375	.750	.3125-24	.625	.447	.500	-	.187	3350	.08	---
HFL-2A	.1562	.281	.219	.562	.875	.375	.1640-32	-	.249	-	-	-	1700	.02	---

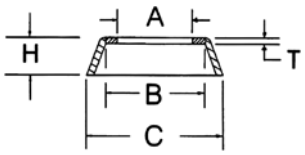
New Surplus HFL-3M Bearing.....P/N 04-03454.....**$60.75**
New Surplus HFX-5G Bearing.....P/N 04-03452.....**$66.75**
New Surplus HFX-8G Bearing.....P/N 04-03453.....**$74.75**

***F34-14 Dimensionally the same as Fafnir REPB3N. **F35-14 Dimensionally the same as Fafnir REPB3N2**

SEALS-IT ROD END SEALS

Protect the spherical bearing of rod ends. This patented design features a neoprene rubber seal bonded directly to an aircraft quality washer. The seal encapsulates the bearing and flexes accordingly with any change in angularity. This provides unprecedented protection from dirt and other types of contamination which may severely shorten the life of these important components.

The rubber is engineered for wide range of temperature variation and is impervious to gasoline, oils, and most other common fluids. The steel washer is plated for protection from corrosion.



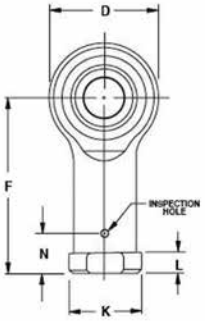
Size	A	B	C	H	T	Part No.	Price
3/16	.200	.326	.442	.096	.020	05-01434	---
1/4	.257	.375	.565	.125	.025	05-2500	**$4.65**
5/16	.325	.450	.710	.200	.047	05-3125	**$3.40**
3/8	.386	.525	.775	.220	.047	05-3750	**$3.40**
7/16	.445	.610	.910	.250	.047	05-4375	**$3.40**
1/2	.515	.710	1.125	.250	.047	05-5001	**$3.40**
5/8	.638	.900	1.250	.250	.047	05-6250	**$4.45**
3/4	.763	1.00	1.375	.375	.047	05-7500	**$6.50**

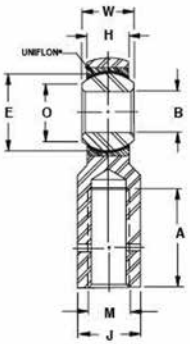
UNIFLON LINED

HFE M SERIES

SPECIFICATIONS:
Outer Member: Carbon steel, magnetic particle inspected, with protective coating for corrosion resistance.
Ball: 52100 Alloy steel, heat treated, chrome plated.
Race: Aluminum.
Liner: Self lubricating UNIFLON.

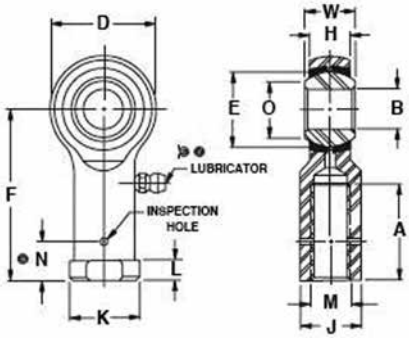
The letter "L" indicates Left Hand thread.





Rod End Number	Dimensions														Max. Static Radial Load (lbs.)	Approx. Weight in Lbs.	Price Each
	Bore	Ball Width	Housing Width	Ball Flat Dia.	Head Dia.	Length to Center of Ball	Overall Length	Other Dimensions									
	B	W	H	O	D	F	G	A	K	J	N	L		M			
	+.0015 -.0005	+.000 -.005	+.005 -.005		+.010 -.010	+.010 -.010	+.010 -.010	Min	+.010 -.010	+.010 -.010	+.005 -.005	+.010 -.010	Ball Diam.	Class 3B			
HFE-3M														10-32 UNF			---
HFLE-3M	.1900	.312	.250	.306	.625	1.062	1.375	.562	.406	.312	.312	.187	.437		865	.03	---
HFE-4M			.											1/4"-28 UNF			---
HFLE-4M	.2500	.375	.281	.355	.750	1.312	1.687	.750	.468	.375	.312	.187	.515		1,550	.05	---
HFE-5M														5/16"-24 UNF			---
HFLE-5M	.3125	.437	.344	.447	.875	1.375	1.812	.750	.500	.437	.406	.187	.625		2,080	.08	---
HFE-6M														3/8"-24 UNF			---
HFLE-6M	.3750	.500	.406	.517	1.000	1.625	2.125	.937	.687	.562	.469	.250	.718		2,950	.12	---
HFE-7M														7/16"-20 UNF			---
HFLE-7M	.4375	.562	.437	.586	1.125	1.812	2.375	1.062	.750	.625	.531	.250	.812		3,160	.17	---
HFE-8M														1/2"-20 UNF			$121.75
HFLE-8M	.5000	.625	.500	.698	1.312	2.125	2.781	1.187	.875	.750	.594	.250	.937		4,925	.26	---

ROD ENDS FEMALE THREADED



HFX EXTRA CAPACITY SERIES

SPECIFICATIONS:
Outer Member: SAE 4130 steel heat treated to 175,000 PSI Cadmium Plated.

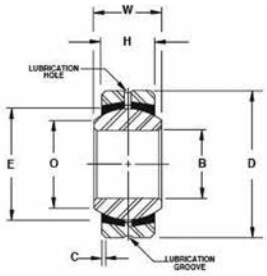
Ball: SAE 52100 Steel, Heat Treated, Chrome Plated.
Inserts: Aluminum Bronze.
"L" in rod end number indicates left hand thread.
"G" in the rod end number indicates lubricator.
All rod ends in this series are magnafluxed, and are stamped with the letter "M".
This series is equipped with lubricators as shown.
Add suffix "FG" to indicate flush type lubricator is required. Example: HFX-4FG.

Lubricator (G) (FG) available with minimum qty. required. Please call for pricing.

Rod End No.	Dimensions															Max. Static Radial Load (lbs.)		Approx. Weight (Lbs.)	Price Each
	Bore	Ball Width	Housing Width	Ball Flat Dia.	Head Dia.	Length to ctr. of ball	Overall Length	Other Dimensions											
	B	W	H	O	D	F	G	A	K	J	N	L		M					
	+.0015 -.0005	+.000 -.005	+.005 -.005		+.010 -.010	+.010 -.010	+.010 -.010	Min	+.010 -.010	+.010 -.010	+.005 -.005	+.010 -.010	Ball Diam.	Class 3B		w/ lubrica-tor	w/o lubrica-tor		
HFX-4G	.2500	.375	.281	.355	.750	1.312	1.687	.750	.468	.375	.312	.187	.515	1/4"-28		3,260	6,680	.06	---
HFX-5G	.3125	.437	.344	.447	.875	1.375	1.812	.750	.500	.437	.406	.187	5/8	5/16"-24		4,920	8,410	.08	---
HFXL-5G														UNF					---
HFXL-6G	.3750	.500	.406	.517	1.000	1.625	2.125	.937	.687	.562	.469	.250	23/32	3/8"-24		7,240	11,160	.14	---
													UNF						
HFX-7G	.4375	.562	.437	.586	1.125	1.812	2.375	1.062	.750	.625	.531	.250	13/16	7/16"-20		7,620	13,660	.18	---
HFXL-7G														UNF					---
HFX-8G	.5000	.625	.500	.698	1.312	2.125	2.781	1.187	.875	.750	.594	.250	15/16	1/2"-20		11,920	19,340	.29	---
HFXL-8G														UNC					---

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

SPHERICAL BEARINGS
SERIES LS, LSS, LHA



SPECIFICATIONS:

LS SERIES

Outer Member: Carbon Steel, with protective coating for corrosion resistance on all surfaces exposed after installation.
Ball: SAE 52100 Steel, Heat Treated.
Inserts: Brass.

LSS SERIES

Outer Member: 4130 or 4340 Alloy steel, heat treated, with protective coating for corrosion resistance on all surfaces exposed after installation.
Ball: 52100 Alloy steel, heat treated, chrome plated.
Inserts: Copper alloy

LHA SERIES

Outer Member: 4130 or 4340 Alloy steel, heat treated, with protective coating for corrosion resistance on all surfaces exposed after installation.
Ball: 52100 Alloy steel, heat treated, chrome plated.

Spherical Bearing No.	Dimensions							Max Static Radial load In Pounds Approx.	Approx. Weight in Pounds	Price Each
	Bore	Outside Diameter	Ball Width	Housing Width	Chamfer	Ball Diameter	Ball Flat Diameter			
	B +.0000 -.0005	D +.0000 -.0005	W +.000 -.005	H +.000 -.005	C +.000 -.005	E REF	O REF			
LS-3	.1900	.6250	.281	.187	.016	.406	.293	2960	.02	---
LS-4	.2500	.7500	.375	.281	.016	.515	.354	5245	.04	---
LS-5	.3125	.8750	.437	.313	.016	.625	.447	6550	.05	**$57.75**
LS-6	.3750	1.0000	.500	.375	.016	.718	.517	8605	.08	---
LS-8	.5000	1.3125	.687	.531	.044	.937	.637	15600	.18	---
LSS-2	.1650	.4687	.250	.187	.235	.020	11/32	2,000	.01	---
LSS-3	.1900	.5625	.281	.218	.020	.406	.293	2750	.02	**$46.80**
LSS-4	.2500	.6562	.343	.250	.022	.500	.364	4200	.02	---
LSS-5	.3125	.7500	.375	.281	.022	.562	.419	5800	.03	---
LHA-2	.1650	.4687	.250	.187	.020	.343	.235	4400	.01	**$39.50**
LHA-4	.2500	.6562	.343	.250	.022	.500	.364	10000	.02	**$74.75**
LHA-6	.3750	.8125	.406	.312	.032	.625	.475	18750	.04	---
LHA-8	.5000	1.000	.500	.390	.600	.032	25/32	26,900	.07	---

The allowable static axial loads are one-fourth of radial loads given above.

TIMKEN WHEEL BEARINGS

Part No.	Description	Price
04-02054	Bearing Cup 13830	**$107.75**
04-02055	Bearing Cup LM29710	**$30.50**
04-02164	Bearing Cone 07100	**$48.99**
04-02165	Bearing Cup 07196	**$22.80**
04-02166	Bearing Cup LL217810	**$482.00**
04-02167	Bearing LL217849	**$337.00**
04-02168	Bearing Cup LM67010	**$14.65**
04-02169	Bearing Cone LM67048	**$30.50**
04-02231	Bearing 19150	**$129.75**
05-29749	Bearing LM29749	**$101.80**
06-00607	Bearing A2126	**$30.50**
06-00642	Cup / Race LM11910	**$10.50**
06-03300	Azusa 6" Alum. Timken Bearing	**$94.90**
04-03400	Azusa 6" Alum. 3/4 Timken Bearing	**$216.95**
08125	Bearing 08125	**$100.75**
8231	Bearing Cup 08231	---
13286	Bearing Cone A-4050	**$117.75**
13889	Bearing 13889	**$95.75**
04-02231	Bearing 19150-20629	**$129.75**
06-00641	Bearing LM11900LA-902A1	**$30.50**

SYMMCO BEARINGS

Sintered Bronze Oil-Impregnated Special Flanged Bearings.

Description	Length	Symmco No.	Part No.	Price
SF610-3 Bushing	3/16	SF-610-3	04-00098	**$0.49**
SF-610-8 Bearing	1/2	SF-610-8	04-01570	**$1.14**
SF-610-8 Bearing	3/8	SF-1014-6	05-1014-6	**$0.69**
SF-812-3 Bearing	3/8	SF-812-3	05-03569	**$2.70**
SF-2024-8 Bearing	1/2	SF-2024-8	04-00004	**$1.59**
SF-4084-20 Bearing	1-1/4	SF-4048-20	04-00159	**$6.50**
SF-4084-8 Bearing	1/2	SF-4048-8	04-02171	**$4.65**

AURORA BEARINGS

In 1971 Aurora Bearing Company entered the rod end and spherical bearing market and soon became a major force in the rod end industry. Over the years, Aurora Bearing has retained its original business philosophy of furnishing a quality product at competitive prices and with service much faster than the competition. Aurora offers a complete line of standard and spherical bearings. In addition, special bearings can be designed and manufactured on request. Listed below are many of the most popular Heim bearing part numbers and the equivalent Aurora Bearing part number. On many of these items, the Aurora bearing offers substantial savings and faster delivery time. Unlisted Aurora bearings, quantity discounts and complete Aurora Bearing Company brochure available on request.

The below specifications apply to most but not all Aurora bearings. Note: Bearings not furnished standard with grease fittings are available with grease fittings. Add suffix "Z".
AURORA EQUIVALENTS TO HEIM HM, HF, HMX, HFX, HMR, AND HFR SERIES

SPECIFICATIONS:

Body - Low carbon steel, cadmium or zinc plated at manufacturer's option, dichromate treated. No. 16 series standard body is 4130 steel, not heat treated.
Race - Low carbon steel, cadmium or zinc plated (manufacturer's option), chromate treated.
Ball - Allow steel, heat treated, hard chrome plated.

AURORA EQUIVALENTS TO HEIM HM & HF SERIES

MALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MM-2	HM-2	$12.50
MB-2	HML-2	$10.95
MM-3	HM-3	$11.75
MB-3	HML-3	$11.75
MM-4	HM-4	$11.80
MB-4	HML-4	$11.80
MM-5	HM-5	$13.50
MB-5	HML-5	$13.50
MM-6	HM-6	$14.85
MB-6	HML-6	$14.85
MM-7	HM-7	$18.70
MB-7	HML-7	$15.90
MM-8	HM-8	$21.50
MB-8	HML-8	$20.50

FEMALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MW-2	HF-2	$11.75
MG-2	HFL-2	$10.50
MW-3	HF-3	$10.99
MG-3	-----	$10.99
MW-4	HF-4	$11.75
MG-4	HFL-4	$11.75
MW-5	HF-5	$11.90
MG-5	HFL-5	$10.99
MW-6	HF-6	$14.50
MG-6	HFL-6	$13.50
MW-7	HF-7	$20.50
MG-7	HFL-7	$13.60
MW-8	HF-8	$20.50
MG-8	HFL-8	$17.60

AURORA EQUIVALENTS TO HEIM HMX & HFX SERIES

MALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
XAM-4Z	HMX-4G	$26.95
XAB-4Z	HMXL-4G	$24.60
XAM-5Z	HMX-5G	$26.95
XAB-5Z	-----	$26.95
XAM-6Z	HMX-6G	$34.50
XAB-6Z	HMXL-6G	$36.75
XAM-7Z	HMX-7G	$41.50
XM-7G	HMX-7G	$303.00
XAB-7Z	HMXL-7G	$40.75
XAM-8Z	HMX-8G	$51.75
XAB-8Z	HMXL-8G	$46.60

FEMALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
AW-4Z	HFX-4G	$27.55
AG-4Z	HFXL-4G	$24.50
AW-5Z	HFX-5G	$25.55
AG-5Z	HFXL-5G	$20.70
AW-6Z	-----	$26.95
AG-6Z	HFXL-6G	$28.50
AW-7Z	HFX-7G	$35.50
AG-7Z	HFXL-7G	$34.50
AW-8Z	HFX-8G	$39.85
AG-8Z	HFXL-8G	$39.99

AURORA EQUIVALENTS TO HEIM HMR & HFR SERIES

MALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MM-3T	HMR-3	$17.50
MB-3T	HMRL-3	$17.50
MM-4T	HMR-4	$17.50
MB-4T	HMRL-4	$17.50
MM-5T	HMR-5	$18.99
MB-5T	HMRL-5	$19.50
MM-6T	HMR-6	$17.90
MB-6T	HMRL-6	$17.75
MM-7T	HMR-7	$21.50
MB-7T	HMRL-7	$16.50
MM-8T	HMR-8	$29.85
MB-8T	HMRL-8	$27.50

FEMALE		
Aurora Part No.	Heim Equivalent Part No.	Price Each
MW-3T	HFR-3	$17.50
MG-3T	HFRL-3	$14.50
MW-4T	HFR-4	$17.50
MG-4T	HFRL-4	$15.90
MW-5T	HFR-5	$17.50
MW-6T	HFR-6	$21.70
MG-6T	HFRL-6	$17.75
MW-7T	HFR-7	$20.50
MG-7T	HFRL-7	$21.50
MW-8T	HFR-8	$24.50
MG-8T	HFRL-8	$20.50

REFER TO HEIM BEARING CHART ON PREVIOUS PAGES FOR DIMENSIONS ON AURORA BEARINGS.

AURORA BEARINGS

AURORA EQUIVALENTS TO HEIM M, ML, MD, F, & FL SERIES

MALE			FEMALE		
Aurora P/N	Aurora Price	Heim Equivalent P/N	Aurora P/N	Aurora Price	Heim Equivalent P/N
GMM-3M-470	**$31.75**	M34-14M	GMW-3M-470	**$27.50**	F34-14M
GMB-3M-470	**$21.90**	ML34-14M	GMG-3M-470	**$47.65**	FL34-14M
GMM-3M-570	**$23.50**	MD35-14M	GMW-3M-471	**$38.50**	F347-14M
GMB-3M-570	**$50.99**	MDL35-14M	GMG-3M-471	**$58.75**	FL347-14M
GMM-3M-670	**$24.80**	MD36-14M	GMW-3M-480	**$35.50**	F34-16M
GMB-3M-670	**$38.50**	MDL36-14M	GMG-3M-480	**---**	FL35-14M
GMM-3M-680	**$24.80**	MD36-16M	GMW-4M-470	**$44.85**	F44-14M
GMB-3M-680	**$48.50**	MDL36-16M	GMG-4M-470	**---**	FL44-14M
GMM-4M-470	**$31.55**	M44-14M	GMW-4M-595	**$28.80**	F45-19M
GMB-4M-470	**$58.95**	ML44-14M			
GMM-4M-675	**$35.50**	MD46-15M			
GMM-4M-680	**$77.75**	MD46-16M			
GMB-4M-680	**$119.75**	MDL46-16M			

AURORA EQUIVALENTS TO HEIM HFE & HME SERIES

MALE			FEMALE		
Aurora P/N	Heim Equivalent P/N	Aurora Price	Aurora P/N	Heim Equivalent P/N	Aurora Price
MW-3TM-125	HFE-3	**---**	MM-3TM-125	HME-3	**$75.90**
MW-4TM-125	HFE-4	**---**	MM-4TM-125	HME-4	**$77.75**
MG-4TM-125	HFEL-4	**---**	MB-4TM-125	HMLE-4	**$132.75**
MW-5TM-125	HFE-5	**$53.75**	MM-5TM-125	HME-5	**$89.75**
MG-5TM-125	HFLE-5	**$215.95**	MB-5TM-125	HMLE-5	**$82.75**

AURORA EQUIVALENTS TO HEIM LS, LHA, & LSS SERIES

LCOM Series Large Size Spherical Bearings			COM Series Spherical Bearings			COM-KH Series Spherical Bearings		
Aurora P/N	Heim Equivalent P/N	Price	Aurora P/N	Heim Equivalent P/N	Price	Aurora P/N	Heim Equivalent P/N	Price
LCOM-3	LS-3	**$35.50**	COM-3	LSS-3	**$14.50**	COM-3KH	LHA-3	**---**
LCOM-4	LS-4	**$24.65**	COM-5	LSS-5	**$15.90**	COM-4KH	LHA-4	**$19.50**
LCOM-5	LS-5	**$47.65**	COM-6	LSS-6	**$13.75**	COM-5KH	LHA-5	**$19.50**
LCOM-6	LS-6	**$32.50**	COM-7	LSS-7	**---**	COM-6KH	LHA-6	**$19.50**
LCOM-7	LS-7	**$57.75**	COM-9	LSS-9	**$14.99**	COM-7KH	LHA-7	**$31.50**
LCOM-8	LS-8	**$40.75**	COM-14	LSS-14	**$29.70**	COM-8KH	LHA-8	**$24.65**
			COM-16	LSS-16	**$34.50**	COM-10KH	LHA-10	**$28.50**
						COM-12KH	LHA-12	**$41.50**
						COM-14KH	LHA-14	**$63.80**
						COM-16KH	LHA-16	**$82.75**

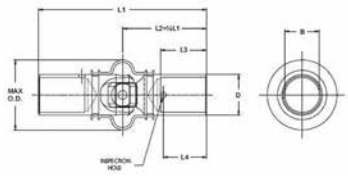
AURORA CM-S & CB-S MALE ROD ENDS WITH STUDS

Rod End no.		Dimension in inches									
Right Hand	Left Hand	H Ref.	A ± .015	D Ref.	C +.062 –.031	L ± .015	N ± .010	M Ref.	Thread UNF-3A	a° Misalign Angle	Price Each
CM-3S*	CB-3S*	.234	1.250	.625	.750	1.000	.500	.437	10-32	50	**$10.50**
CM-4S*	CB-4S*	.250	1.562	.750	1.000	1.031	.562	.500	1/4-28	50	**$10.99**
CM-5S*	CB-5S*	.312	1.875	.875	1.250	1.219	.687	.593	5/16-24	50	**$11.80**
CM-6S	CB-6S	.359	1.938	1.000	1.250	1.562	.906	.812	3/8-24	50	**$10.65**
CM-7S	CB-7S	.406	2.125	1.125	1.375	1.750	1.062	.937	7/16-20	50	**$13.50**
CM-10S	CB-10S	.484	2.625	1.500	1.625	2.500	1.500	1.375	5/8-18	50	**$23.50**
CM-12S	CB-12S	.593	2.875	1.750	1.750	3.000	1.812	1.625	3/4-16	50	**$32.75**

*** Grease fittings not available on these sizes. Units are supplied without grease fittings.**

AURORA CW-3B-14 BEARING

In 1971 Aurora Bearing Company entered the rod end and spherical bearing market and soon became a major force in the rod end industry. Over the years, Aurora Bearing has retained its original business philosophy of furnishing a quality product at competitive prices and with service much faster than the competition. Aurora offers a complete line of standard and spherical bearings. In addition, special bearings can be designed and manufactured on request.....P/N 04-03824 .....**$15.50**



MS20271 UNIVERSAL JOINTS

Complete universal joint line includes a full range of military certified MS20271 and continually tested universal joints used in defense vehicles, aerospace applications, as well as shift/gear change linkage in specialty vehicles.

Meets or exceeds military specification MIL-J-6193

Part No.	ID (in.)	Price Ea
MS20271-B8	3/8	**$185.99**
MS20271-B10	1/2	**$151.75**
MS20271-B12	5/8	**$151.75**
MS20271-B14	3/4	**$168.75**

Dash #	+.000, -.002 (+.000, -.051) Outside Dia.		+/-.015 (+/-.381) Overall Length		+.031,-.000 (-.787,-.000) Bore Depth		+.004,-.025 (+.102, -.025) Bore Dia.		+/-.015 (+/-.381) Insp. Hole Loc.		Max Dia. (+.102,-.025) Cover Dia.		Weight Max	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs.	kg.
B8	.495	12.57	2.625	66.67	.625	15.88	.375	9.52	.562	14.27	1.031	26.19	.09	.041
B10	.620	15.75	2.750	69.85	.750	19.05	.500	12.70	.687	17.45	1.156	29.36	.18	.082
B12	.745	18.92	3.187	80.95	.875	22.22	.625	15.88	.812	20.62	1.437	36.50	.24	.109
B14	.870	22.10	3.625	92.07	1.00	25.40	.750	19.05	.937	23.80	1.562	39.67	.35	.159

***Five hour test at 15° angle.**

TORSIONAL OVERLOADS

AXIAL OVERLOADS

Temporary torsional overloads as great as 80% of rated ultimate have been handled by these universal joints without harmful binding.

Temporary axial overloads ranging up to 150% in excess of rated ultimates have been imposed without binding. These characteristics insure high safety factors under the most difficult operating conditions.

H-9426 BALL JOINT

* Hex: 1/2 Inch *Thread: 5/16-18 *Ball: 10 mm
P/N 06-00675.....**$1.59**

P/N 05-07600

BALL JOINT ASSEMBLIES

COMMERCIAL

Ball Joint Style	Female End	Male End	Part No.	Price
Is similar to AN276-6. Experimental Only	1/4-28	1/4-28	05-07300	**$20.50**
Commercial	10-32	1/4-28	05-07400	**$4.85**
Commercial	10-32	10-32	05-07500	**$4.65**
Commercial	1/4-28	1/4-28	05-07600	**$28.95**

GEARS, CHAINS, SPROCKETS AND BEARINGS

BOSTON GEAR PRODUCTS

STEEL SPROCKETS - These sprockets have many applications in a control system. Hub type.

Sprocket Part No.	Chain Size	No. of Teeth	Price
25B12	1/4"	12	**$9.50**
25B15	1/4"	15	**$10.50**
25B20	1/4"	20	**$14.65**
35B14	3/8"	14	**$11.75**

BUSHINGS - As used on the Solitaire Sailplane.

Bushing Part No.	Price
FF520-10	**$2.17**
FF620	**$2.01**

ROLLER CHAIN - These chains fit above sprockets.

1/4" Chain - 10 Ft.	P/N 05-29325	**$86.75**
3/8" Chain - 10 Ft.	P/N 05-29335	**$86.75**
Extra Links - S25	P/N 05-29300	**$0.90**
Extra Links - S35	P/N 05-29350	**$0.79**

GEARS + BEARINGS

FB-35-1	Flange Bearing	**$1.52**
FB-35-2	Flange Bearing	**$1.16**
FB-1012-4	Flange Bearing	**$1.11**
FB-1013-8	Flange Bearing	**$3.45**
FB-1620-10	Flange Bearing	**$8.99**
FB-46-2	Flange Bearing	**$0.50**

G-481-G Gear	**$49.65**
G-481Y-P Pinion	**$28.50**
NF-14-6-8 Bearing	**$2.28**
NF-16-8-9 Bearing	**$3.35**

COMPLETE LINE OF BOSTON GEAR PRODUCTS AVAILABLE

BRONZE BUSHINGS SS-610-8

Cast Bronze bearings fit a wide range of applications.

Key Benefits:

High Strength, Excellent Machinability

P/N 04-01937 .....**$2.70**

SINTERED BRONZE OIL IMPREGNATED BEARINGS

PLAIN BEARINGS

Part Number	Hole ID	Hole OD	Length	Price
05-01977	3/16	5/16	3/4"	**$1.94**
05-01976	1/4	3/8	1"	**$1.25**
05-01974	1/2	3/4	3/4"	**$2.07**
05-01975	1/2	3/4	1"	**$2.35**
05-01979	9/16	3/4	1"	**$2.21**
05-01978	5/8	3/4	1"	**$1.36**
05-01891	3/4	7/8	1"	**$1.87**

FLANGE BEARINGS

Part Number	Hole ID	Hole OD	Length	Flange OD	Flange Thickness	Price
05-01949	1/4	3/8	1/4"	15/32	1/16	**$0.61**
05-01947	1/2	5/8	1/2"	7/8	1/16	**$1.52**
05-01946	1/2	5/8	1"	7/8	1/16	**$2.07**
05-01948	1/2	3/4	1"	15/16	1/8	**$2.21**
05-01951	5/8	3/4	1/2"	1	3/32	**$1.52**
04-01638	5/8	3/4	1"	1	3/32	**$2.35**
05-01950	3/4	7/8	3/4	1-1/8	1/8	**$1.77**
05-01945	1	1-1/4	3/4	1-5/8	1/8	**$4.35**

SINGLE-ROW TAPERED ROLLER BEARINGS

The most basic and widely used tapered bearing, the single-row type consists of the cone assembly and the cup. It is usually fitted as one of an opposing pair. During equipment assembly, single-row bearings can be set to the required clearance (endplay) or preload condition to optimize performance. Single-row tapered roller bearings have positive roller alignment that ensures true rolling motion and generates a "seating force" that pushes the roller against the cone large rib. This seating force prevents the rollers from skewing off apex, thereby keeping them positively aligned and located against the cone large rib.....P/N 05-29749 .....**$101.80**

BELLCRANK BEARINGS

Part No.	Bore	Flange Dia.	Race Width	Price Each
BC4W10 (AN218-4) Experimental Only	1/4"	1-5/8"	5/8"	**$34.50**
BC5W11	5/16"	1-11/16"	5/8"	**$42.75**

***Military P/N AN218P4 / MS20218-1. Certs Available.**
All bearings inspected per MIL-I45208A. 100% traceable. Currently installed on new and rebuilt certified aircraft.Prepacked with lubricant conforming to MIL-G-23827

Quantity discount quoted on request

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

ACS CONTROLS

The ACS line of controls was manufactured by Aircraft Spruce and Specialty Company from 1980 to 1985. As of June, 1985 the controls have been manufactured by ACS Products Company in Lake Havasu City, Arizona. The manufacturing and inspection procedures have been approved by the FAA and original equipment manufacturers. The following engineering data will aid in properly identifying the control most suited to each individual requirement. Also shown are some available options for the controls such as plastic protective covering and steel sleeves for clamping the control to the aircraft structure. Made in the U.S.A.

The A-790-12 vernier mixture control and the A-800-12 friction-lock throttle control are approved for Cessna 172, 172A thru Q; Cessna 150, 150A thru M, A150K, A150L, A150M; Cessna 152, A152.

Other approvals pending. Order by Part Number and state Cessna model and serial number. A790-12 is 53" long. A800-12 length is based on serial number provided.

ENGINEERING DATA

Control Model No.	Control Type	Stroke at 0 Routing	Decrease in Stroke per 360° of Bend	Control Model No.	Control Type	Stroke at 0° Routing	Decrease fStroke per 360° of Bend
A-700	Button Lock (Wire End)	3.37"*	0.50"	A810	Friction Lock (1/4-28)	3.37"*	0.35"
A-730	Glide Free (Wire End)	3.37"*	0.50"	A920	Push-Pull (10-32)	3.37"	0.35"
A-740	Ratchet (Wire End)	3.37"*	0.50"	A930	Push-Pull (1/4-28)	3.50"	0.35"
A-750	Vernier (10-32)	3.37"*	0.35"	A970	Vernier (1/4-28)	3.37"*	0.35"
A-790	Vernier (Wire End)	3.37"*	0.35"	A1550	Push-Pull (10-32) with Bulkhead Fittings	3.37"	0.35"
A-800	Friction Lock (10-32)	3.37"*	0.35"				

***Length of exposed wire. **Recommended minimum bending radius for all controls is 5" (never less than 3")**

AP

PLASTIC COVERING ON CONTROL CASING

All ACS controls can be supplied with a black Polyolefin (PO) protective cover. Price of the PO cover carries a base price of $3.00 plus the length of control in ft. multiplied by 1.50 for lengths to 10 ft. For lengths over 10 ft., use $3.00 base price plus $1.90/ft. for PO cover plus a 425 set-up fee. Example: Cost of PO cover on 5 ft. control is $3.00 plus 5 x 1.40 = $10.00. Cost of PO cover on 15 ft. control is $3.00 plus 15 x 1.90 - $31.50.

STEEL SLEEVES ON CONTROL CASING

Cadmium plated 2" long steel sleeves can be added to the casing to provide clamping points for securing the control to the aircraft structure. Specify sleeve location (measurement taken from under the panel nut to mid-point of sleeve). Sleeves are normally swaged to the casing but will be left unswaged when specified. Add $7.50 for installation of sleeves on A730 & A740 controls ..... **Price/Sleeve $4.00**

THREADED STEEL SLEEVES ON CONTROL CASING

Threaded steel sleeves ("bulkhead" fittings) can be added to the casing to provide secure clamping of the control where it passes through a bulkhead. The cadmium plated sleeves are 2" long, with 1-1/2" length of 7/16-20 threads. Specify sleeve location (measurement taken from under the panel nut to mid-point of sleeve). Sleeves are normally swaged to the casing but will be left unswaged when specified. Add $7.50 for installation of sleeves on A730 & A740 controls ..... **Price/Sleeve $6.00**

HOW TO ORDER CONTROLS

STOCK CONTROLS - All stock controls are identified by a part number as shown in the descriptions of the controls. To order a stock control, specify control type, knob color, length to nearest 1/8" (measured as described in text), and any added features such as PO cover on flexible casing or steel sleeves centered at specified distances from panel nut (lengths of stock controls are in whole-foot increments and only lengths listed are stocked). Include 7-digit part number as shown in text.

SPECIAL-LENGTH CONTROLS - If you require a special-length control, specify control type, knob color, length to nearest 1/8" and any added features such as PO cover, etc. Special-length controls carry a set-up charge in addition to the cost of the control (calculated as described in the texts).

CUSTOM CONTROLS - If you do not find the type of control you require in this catalog, send a detailed sketch with dimensions, or the old control as a sample, to Aircraft Spruce & Specialty Co., 225 Airport Circle, Corona, CA 92880-2527 (1-800-824-1930). Custom controls are priced like similar stock controls but with a $35 set-up and engineering charge added, plus costs for any special parts which must be fabricated for the control.

VERNIER CONTROLS

Vernier controls assure smooth operation - cannot creep. For coarse adjustment, depress center button and push or pull. For fine adjustment, turn knob. Smooth acting at all temperatures. Casing is made of tightly wound galvanized steel wire. Inner shaft is stainless steel cable (Models A-750 and A-970) or stainless steel wire (Model A-790). Low-friction operation is provided by an internal extruded Teflon liner. Controls have 1-1/4" dia. plastic knob with 3/4" dia. aluminum release button. A protective black PVC cover is available as an option on controls. Choice of knob color - black, red or blue (FAA Color Code: Black - Throttle, Red - Mixture, Blue - Prop), and knob design (see below).

Throttle Control (Black) (FAA Color) Or White

Mixture Control (Red)

Prop Control (Blue)

The FAA has recently adopted a standard configuration for cockpit control knobs in production aircraft type-certificated after August 11, 1986. The red mixture knob is to have six raised ridges whereas the blue prop control is to have the opposite profile with six grooves. The black throttle control knob is to have a smooth profile. The different knob contours assure positive identification by touch.

Aircraft Spruce is proud to offer the ACS line of vernier controls with the new style FAA knobs at no extra charge. The throttles will be furnished with the smooth black knob, the mixture controls with the contoured red knob and the prop controls with the contoured blue knob. Look to Aircraft Spruce & Specialty Company for a complete selection of original installation or replacement controls at tremendous savings.

REPLACEMENT PARTS FOR ACS CONTROLS

ACS large Control Cable Grommet made of black synthetic rubber .....P/N 05-02633 ..... **$4.35**

ACS Rubber Grommets N-549-A (Small)
P/N 05-02634 ..... **$4.35**

ACS Large Black Knob A-663-A for the A-800 controls.
P/N 05-03416 ..... **$6.70**

Replacement ball bearings for A790 Controls
P/N 05-07700 ..... **$2.70**

Replacement ball bearings for A700/A-1840 Controls
P/N 05-02618 ..... **$2.70**

NOTE: The Grommets (rubber boots) fit all ACS 10-32 threaded end controls, such as: A-750, A-800, A-770, A-1860, A-920, A-1550, A-1750, A-950, and A-1760.

A-750 VERNIER CONTROL
(10-32 THREADED END)

The A-750 vernier control has 10-32 threaded shaft for use with ball point or threaded terminal. Unique ball-socket construction permits the threaded end to swivel 8° in any direction. Casing has Teflon inner liner for low friction and heat resistance in high-temperature areas such as engine compartments. Furnished with FAA-style knobs (Black, Red & Blue). Travel: 3-3/8". Wt. 1 lb. (4'). Stocked in the following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part No.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-07736	05-07748	05-07760	05-07772	05-07784	05-07796
Red	05-07836	05-07848	05-07860	05-07872	05-07884	05-07896
Blue	05-07936	05-07948	05-07960	05-07972	05-07984	05-07996
Price	**$145.95**	**$152.85**	**$163.90**	**$166.95**	**$174.95**	**$179.75**

Glasair Prop Control A-750 Blue 80" long...P/N 05-07980 .....**$184.75**
A-1750-12-1 Control for Cessna 182 .....P/N 05-12630 .....**$452.00**

A-790 VERNIER CONTROL
(SOLID-WIRE END)

The A-790 vernier control has a .078" dia. stainless steel wire core. Both the wire and Teflon lined flexible casing may be shortened as required. The Teflon liner provides low friction with heat resistance in high temperature areas such as engine compartments. Furnished with FAA-style knobs (Black, Red & Blue). Max. travel: 3-3/8". Stocked in the following lengths (measurement taken from under the panel nut to end of wire with knob pushed in). Order by Part Number.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-08036	05-08048	05-08060	05-08072	05-08084	05-08096
Red	05-08136	05-08148	05-08160	05-08172	05-08184	05-08196
Blue	05-08236	05-08248	05-08260	05-08272	05-08284	05-08296
Price	**$151.75**	**$156.99**	**$163.90**	**$172.75**	**$177.75**	**$184.75**

Replacement Ball Bearing for A-790 Controls ..P/N 05-07700 .....**$2.70**
A-1790-12-1 Control for Cessna 182 .....P/N 05-12629 .....**$376.00**

A-970 VERNIER CONTROL
(1/4-28 THREADED END)

The A-970 vernier control is similar to the Model A-750 described above but with 1/4-28 threaded end (non-swiveling). Casing has Teflon inner liner for low friction and heat resistance in high-temperature areas such as engine compartments. Furnished with FAA-style knobs (Black, Red & Blue). Travel: 3-3/8". Stocked in following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part Number.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-08336	05-08348	05-08360	05-08372	05-08384	05-08396
Red	05-08436	05-08448	05-08460	05-08472	05-08484	05-08496
Blue	05-08536	05-08548	05-08560	05-08572	05-08584	05-08596
Price	**$163.90**	**$169.75**	**$177.75**	**$182.75**	**$137.75**	**$199.80**

A-800 FRICTION LOCK CONTROL
(10-32 THREADED END)

The A-800 friction lock control provides positive locking at any power setting by turning the chrome collet locking nut. Unique ball-socket construction permits 10-32 threaded end to swivel 8° in any direction. Casing has Teflon liner for low friction and heat resistance in high-temperature areas such as engine compartments. Travel: 3-3/8". The 1-1/4" dia. solid knob is available in black or blue (blue knob has smooth profile, not FAA style). Stocked in following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part No.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-08636	05-08648	05-08660	05-08672	05-08684	05-08696
Blue	05-08836	05-08848	05-08860	05-08872	05-08884	05-08896
Price	**$170.80**	**$177.75**	**$183.75**	**$191.75**	**$194.75**	**$201.95**

A-800 VANS CONTROL CABLE FOR RV AIRCRAFT

Specify knob color (black, blue, red), overall length of control (from under panel nut to end of control) and stroke (2-1/4", 2-1/2"). For controls over 72" long, add $1.50 per foot. For custom stroke (2-3/8", 2-3/4", 3-1/2") add $45 to cost of control.....P/N 05-01436 .....**$314.00**

A-810 FRICTION LOCK CONTROL
(1/4-28 THREADED END)

The A-810 friction lock control is similar to the A-800 control but with 1/4-28 threaded end (non-swiveling). With Teflon liner. Travel: 3-3/8". Knob styles and length measurement same as for A-800. Stocked in the following lengths. Order by Part Number.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-09236	05-09248	05-09260	05-09272	05-09284	05-09296
Blue	05-09336	05-09348	05-09360	05-09372	05-09384	05-09396
Price	**$164.75**	**$169.75**	**$177.75**	**$183.75**	**$185.99**	**$194.75**

A-810-12-1 Control for Cessna 182.....P/N 05-12631 .....**$416.00**

A-820 FRICTION LOCK CONTROL
(SOLID-WIRE END)

The A820 friction lock control is similar to the A-800 control but with a solid wire end like the A-790 control above. With Teflon liner. Travel: 3-3/8". Knob styles and measurements same as for A-800.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8 Ft.
Black	05-09436	05-09448	05-09460	05-09472	05-09484	05-09496
Blue	05-09536	05-09548	05-09560	05-09572	05-09584	05-09596
Price	**$161.75**	**$165.75**	**$173.75**	**$179.75**	**$185.99**	**$192.90**

FAA APPROVED A-790 & A-800 CONTROLS

The A-790-12 vernier mixture control and the A-800-12 friction lock throttle control are approved for Cessna 172, 172A thru Q; Cessna 150, 150A thru M, A150K, A150L, A150M; Cessna 152, A152. Other approvals pending. Order by part number and state Cessna model and serial number. A790-12 is 53" long. A800-12 length is based on serial number provided. **Note**: For special length controls over 25ft. long, add extra $15.00 to the set-up fee.

P/N A-790-12 .....**$381.00** P/N A-800-12 .....**$345.00**

All ACS Products Controls are made in the U.S.A

SEE OUR WEBSITE FOR ELIGIBILITY LIST!
CUSTOM SPECIAL LENGTH CONTROLS AVAILABLE. PLEASE CALL FOR PRICING.

A-700 BUTTON LOCK DASH CONTROL
(7/16-20 UNF-2A THREADS / SOLID WIRE END)

Provides a 10-lb. locking force for light and medium service applications. Black or Red anodized aluminum knob with aluminum release button. Has .062" dia. stainless steel wire core in flexible metal casing. May be shortened as req. Max. travel 3-1/2". Order by Part No.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13172	05-13184	05-13196	05-13120
Red	05-13272	05-13284	05-13296	05-13220
Price	**$136.75**	**$144.85**	**$148.75**	**$159.75**

Replacement Ball Bearing for A-700/A-1840 Controls P/N 05-02618 .....**$2.70**

A-700-12-1 CONTROL FOR CESSNA 182 - See our website for eligibility list .....P/N 05-12629 .....**$376.00**

A-770 BUTTON LOCK DASH CONTROL
(10-32 THREADED END)

Same as A-700 control above except has 10-32 threaded end, with .078' dia. stainless steel inner cable and Teflon-lined flexible casing. Order by part number.

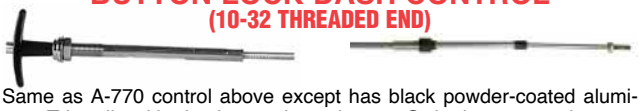
Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16172	05-16184	05-16196	05-16120
Red	05-16272	05-16284	05-16296	05-16220
Price	**$145.95**	**$152.85**	**$158.75**	**$170.95**

A-780 BUTTON LOCK DASH CONTROL
(1/4-28 THREADED END)

Same as A-700 control above except has 1/4-28 threaded end, with .078' dia. stainless steel inner cable and Teflon-lined flexible casing. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16372	05-16384	05-16396	05-16320
Red	05-16472	05-16484	05-16496	05-16420
Price	**$150.75**	**$153.75**	**$158.75**	**$165.75**

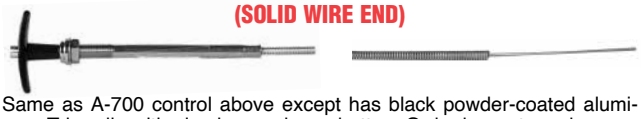
A-1860 T-HANDLE BUTTON LOCK DASH CONTROL
(10-32 THREADED END)



Same as A-770 control above except has black powder-coated aluminum T-handle with aluminum release button. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16672	05-16684	05-16696	05-16620
Price	**$155.75**	**$158.75**	**$162.75**	**$176.75**

A-1840 T-HANDLE BUTTON LOCK DASH CONTROL
(SOLID WIRE END)



Same as A-700 control above except has black powder-coated aluminum T-handle with aluminum release button. Order by part number.

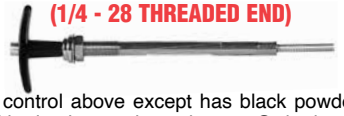
Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13572	05-13584	05-13596	05-13520
Price	**$132.75**	**$139.75**	**$144.75**	**$155.75**

EXTENSIONS FOR THREADED CONTROLS

Use these stainless steel extensions for moderate length adjustments to stock length controls. Stocked with 1 male & 1 female threaded end. The extensions provide the required increase in control length when threaded approximately half way onto the control. Furnished in 2", 3", 4", 5" and 6" lengths. All extensions have 10-32 threads. To order, add -2, -3, -4, or -5 to Dash number for length...P/N 10376 .....**$19.50/ea**

All ACS Products Controls are made in the U.S.A

A-1870 T-HANDLE BUTTON LOCK DASH CONTROL
(1/4 - 28 THREADED END)



Same as A-780 control above except has black powder-coated aluminum T-handle with aluminum release button. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-16872	05-16884	05-16896	05-16820
Price	**$162.75**	**$168.75**	**$169.75**	**$183.75**

A-730 GLIDE FREE CONTROL
(SOLID WIRE END)

Simple design for push-pull operation with low friction characteristics. Has .050" dia. stainless steel wire core in flexible metal casing with polyethylene liner. May be shortened as required. Max. travel 3-1/2". Available with black or red plastic knob. Order by Part No.

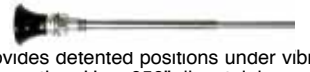
Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13672	05-13684	05-13696	05-13620
Red	05-13772	05-13784	05-13796	05-13720
Price	**$89.75**	**$93.75**	**$93.75**	**$99.75**

A-1770 T-HANDLE GLIDE FREE CONTROL
(SOLID WIRE END)

Same as A-730 above except with black powder coated aluminum T-handle. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-13872	05-13884	05-13896	05-13820
Price	**$130.80**	**$129.75**	**$135.75**	**$135.75**

A-740 RATCHET CONTROL
(SOLID WIRE END)



Ratchet design provides detented positions under vibration conditions. Simple push-pull operation. Has .050" dia. stainless steel wire Core in flexible metal casing with polyethylene liner. Maximum temperature range 200° - 250°F. May be shortened as required. Max. travel 3-1/2". Available with black or red plastic knob. Order by Part No.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-14072	05-14084	05-14096	05-14020
Red	05-14172	05-14184	05-14196	05-14120
Price	**$90.75**	**$92.75**	**$96.75**	**$103.75**

A-1780 T-HANDLE RATCHET CONTROL
(SOLID WIRE END)

Same as A-740 above except with black powder coated aluminum T-handle. Order by part number.

Knob Color	Length			
	6 Ft.	7 Ft.	8 Ft.	10 Ft.
Black	05-14272	05-14284	05-14296	05-14220
Price	**$134.90**	**$136.75**	**$139.75**	**$144.75**

CONTROL END EXAMPLES

SOLID WIRE

SOLID WIRE SPEC END STYLE C

10-32 THREADED END

1/4"-28 THREADED END

AP

A-920 PUSH-PULL CONTROL
(10-32 THREADED END)

This control has 10-32 threaded ends with 8 degree swivel & 3-3/8" stroke on both ends. It has Teflon™ casing liner for use in high-temperature areas such as engine compartments, & .078" dia. stainless steel inner cable to minimize backlash. Stocked in the following lengths. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-12736	**$123.90**	96"	05-12796	**$161.75**
48"	05-12748	**$130.90**	108"	05-127108	**$169.75**
60"	05-12760	**$137.75**	120"	05-127120	**$174.95**
72"	05-12772	**$148.75**	132"	05-127132	**$181.85**
84"	05-12784	**$154.75**	144"	05-127144	**$187.75**

A-930 PUSH-PULL CONTROL
(1/4-28 THREADED END)

This control has 1/4-28 threaded ends (nonswiveling) and 3-1/2" stroke. It has Teflon casing liner for use in high-temperature areas such as engine compartments, and .078" dia. stainless steel inner cable to minimize backlash. Stocked in the following lengths. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-30036	**$121.75**	96"	05-30096	**$161.75**
48"	05-30048	**$128.75**	108"	05-30108	**$170.80**
60"	05-30060	**$136.75**	120"	05-30120	**$173.75**
72"	05-30072	**$144.75**	132"	05-30132	**$177.75**
84"	05-30084	**$152.85**	144"	05-30144	**$187.75**

SPECIAL LENGTH CONTROLS – Refer to chart for price of next longest control (by foot), and add a $20.00 set-up charge for controls up to 10 feet, $40.00 for controls over 10 feet. For lengths over 144" add $4.88 for each extra foot or fraction of a foot. Allow 2 - 3 weeks.

A-1550 PUSH-PULL CONTROL
(10-32 THREADED END)

This control has same design as A-920 control but with 7/16-20 threaded bulkhead fittings added at each end. Not stocked. Available at base price of $33.73 + $4.88 per ft. or fraction of a foot + $20 set-up charge

A-1750 VERNIER CONTROL
(10-32 THREADED END)

A-1750 Vernier Control: features - removable button and facenut and 2" of control panel threads for those difficult mounting applications. (10-32 threaded control rod like the A-750 control.)

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8Ft.
Black	05-10236	05-10248	05-10260	05-10272	05-10284	05-10296
Red	05-10336	05-10348	05-10360	05-10372	05-10384	05-10396
Blue	05-10436	05-10448	05-10460	05-10472	05-10484	05-10496
Price	**$168.75**	**$177.75**	**$184.80**	**$191.75**	**$198.75**	**$204.95**

A-1970 VERNIER CONTROL
(1/4-28 THREADED END)

A-1970 Vernier Control same features as the A-1750 except it has the A-970 style (1/4 x 28 threaded rod)

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8Ft.
Black	05-09636	05-09648	05-09660	05-09672	05-09684	05-09696
Red	05-09736	05-09748	05-09760	05-09772	05-09784	05-09796
Blue	05-09836	05-09848	05-09860	05-09872	05-09884	05-09896
Price	**$173.75**	**$180.80**	**$187.75**	**$194.75**	**$202.95**	**$209.95**

SPECIAL LENGTH CONTROLS – Use price of 10 ft. control plus $1.45 per ft. or fraction of a foot, plus $20.00 set-up charge for controls up to 10 feet, $40.00 for controls over 10 feet. Allow 2 - 3 weeks.

CONTROLS WITH COILED WIRE END – Add $8.50 to cost. To order, add "C" to part number. Controls with coiled end have only 3" stroke rather than 3-1/2" on standard end controls.

All ACS Products Controls are made in the U.S.A

A-950 PUSH-PULL CONTROL
(10-32 THREADS / SOLID WIRE END)

Same as A-920 control except one end is .078" dia. stainless steel wire. Special-length controls not required as the wire end can be cut off to desired length. Order by Part No.

Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-16936	**$101.80**	96"	05-16996	**$125.75**
48"	05-16948	**$107.75**	108"	05-169108	**$131.75**
60"	05-16960	**$110.75**	120"	05-169120	**$133.80**
72"	05-16972	**$114.75**	132"	05-169132	**$141.80**
84"	05-16984	**$119.75**	144"	05-169144	**$146.75**

A-960 PUSH-PULL CONTROL
(1/4-28 THREADS / SOLID WIRE END)

Same as A-930 control except one end is .078" dia. stainless steel wire. Special-length controls not required as the wire end can be cut off to desired length. Order by Part No.

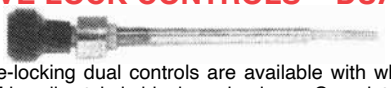
Control Length	Part No.	Price	Control Length	Part No.	Price
36"	05-17036	**$107.75**	96"	05-17096	**$131.75**
48"	05-17048	**$113.75**	108"	05-170108	**$137.75**
60"	05-17060	**$117.75**	120"	05-170120	**$140.75**
72"	05-17072	**$121.75**	132"	05-170132	**$146.75**
84"	05-17084	**$127.99**	144"	05-170144	**$154.75**

A1600 SERIES
POSITIVE LOCK CONTROLS – SINGLE END

These positive-locking controls are available with white, black, or blue knob or T-handle style in black or aluminum. Complete part number with -W for white, -B for black knob, -BU for blue knob, -TB for t-handle black or -TA for T-handle aluminum. Special length controls are available at price for next longer control + $4.88 per foot + $20 set-up charge for controls up to 10 feet, $40.00 for controls over 10 feet.

Control	End	6 Ft.		7 Ft.		8 Ft.		10 Ft.	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
A-1610	.078 Wire	05-17172	**$277.95**	05-17184	**$284.95**	05-17196	**$288.95**	05-17120	**$304.00**
A-1620	10-32 Thread	05-17272	**$277.95**	05-17284	**$285.95**	05-17296	**$289.95**	05-172120	**$304.00**
A-1630	1-1/4-28 Thread	05-17372	**$291.95**	05-17384	**$296.95**	05-17396	**$304.00**	05-17320	**$314.00**

POSITIVE LOCK CONTROLS – DUAL END



These positive-locking dual controls are available with white, black, or blue knob or T-handle style in black or aluminum. Complete part number with -W for white, -B for black knob, -BU for blue knob, -TB for t-handle black or -TA for T-handle aluminum. Special length controls are available for price of next longer control (for longest of the two cables) + $9.88 per foot + $20.00 set-up charge for controls up to 10 feet, $40.00 for controls over 10 feet. Specify exact length of both cables when ordering.

Control	End	6 Ft.		7 Ft.		8 Ft.		10 Ft.	
		Part No.	Price	Part No.	Price	Part No.	Price	Part No.	Price
A-1640	.078 Wire	05-17472	**$286.95**	05-17484	**$321.00**	05-17496	**$332.00**	05-17420	**$348.00**
A-1650	10-32 Thread	05-17572	**$298.95**	05-17584	**$304.00**	05-17596	**$311.00**	05-17520	**$340.00**
A-1660	1-1/4-28 Thread	05-17672	**$295.95**	05-17684	**$303.00**	05-17696	**$311.00**	05-17620	**$340.00**

A-1760 VERNIER CONTROL
(10-32 THREADED END)

A-1760 Vernier Control like a A-750 control except it has a threaded bulkhead fitting in place of the grooved or notched fitting.

Knob Color	Length					
	3 Ft.	4 Ft.	5 Ft.	6 Ft.	7 Ft.	8Ft.
Black	05-09936	05-09948	05-09960	05-09972	05-09984	05-09996
Red	05-10036	05-10048	05-10060	05-10072	05-10084	05-10096
Blue	05-10136	05-10148	05-10160	05-10172	05-10184	05-10196
Price	**$181.85**	**$188.75**	**$195.80**	**$192.90**	**$211.95**	**$217.95**

A-1760 VANS RV CUSTOM CONTROL CABLE

Specify knob color (black, blue, red), overall length of control (from under panel nut to end of control) and stroke (2-1/4", 2-1/2"). For controls over 72" long, add $5.00 per foot. For custom stroke (2-3/8", 2-3/4", 3-1/2") add $45 to cost of control ....P/N 05-01435 .....**$312.00**

THROTTLE AND CHOKE CABLES

NON-LOCKING THROTTLE AND CHOKE CABLES

Non-Locking Choke Controls for Dual Carburetor Rotax 912/914 Series Engines Allows a neat, clean installation without a clunky splitter box These controls do not feature a locking mechanism, however they have an internal elastomer seal to dampen vibration and provide a small amount of resistance. If your choke installation features a return spring, this control will return to the closed position when released. Stroke 3.5" min. These controls are not for use on certified aircraft, or for use for flight controls or flight control trim tabs.

Model No.	Description	Part No.	Price
101D048	Control Dual 4ft W/O Knob	05-11212	**$288.95**
101D048-RB	Control Dual 4ft Round Black Knob	05-11213	**$264.95**
101D048-RBC	Control Choke Dual 4ft Round Black Knob	05-11214	**$275.95**
101D048-RC	Control Dual 4ft Round Clear Knob	05-11215	**$299.95**
101D048-RCC	Control Choke Dual 4ft Round Clear Knob	05-11216	**$311.00**
101D048-RL	Control Dual 4 Ft Round Blue Knob	05-11217	**$281.95**
101D048-RLC	Control Choke Dual 4 Ft Round Blue Knob	05-11218	**$293.95**
101D048-RR	Control Dual 4ft Round Red Knob	05-11219	**$299.95**
101D048-RRC	Control Choke Dual 4ft Round Red Knob	05-11220	**$293.95**
101D072	Control Dual 6ft W/O Knob	05-11221	**$300.95**
101D072-RB	Control Dual 6ft Round Black Knob	05-11222	**$326.00**
101D072-RBC	Control Choke Dual 6 Ft Round Black Knob	05-11223	**$268.95**
101D072-RC	Control Dual 6ft Round Clear Knob	05-11224	**$326.00**
101D072-RCC	Control Choke Dual 6ft Round Clear Knob	05-11225	**$268.95**
101D072-RL	Control Dual 6 Ft Round Blue Knob	05-11226	**$326.00**
101D072-RLC	Control Choke Dual 6ft Round Blue Knob	05-11227	**$268.95**
101D072-RR	Control Dual 6ft Round Red Knob	05-11228	**$326.00**
101D072-RRC	Control Choke Dual 6ft Round Red Knob	05-11229	**$268.95**
101D096	Control Dual 8ft W/O Knob	05-11230	**$286.95**
101D096-RB	Control Dual 8ft Round Black Knob	05-11231	**$295.95**
101D096-RBC	Control Choke Dual 8ft Round Black Knob	05-11233	**$305.00**
101D096-RC	Control Dual 8ft Round Clear Knob	05-11234	**$295.95**
101D096-RCC	Control Choke Dual 8ft Round Clear Knob	05-11235	**$305.00**
101D096-RL	Control Dual 8ft Round Blue Knob	05-11236	**$295.95**
101D096-RLC	Control Choke Dual 8ft Round Blue Knob	05-11237	**$286.95**
101D096-RR	Control Dual 8ft Round Red Knob	05-11238	**$295.95**
101D096-RRC	Control Choke Dual 8ft Round Red	05-11239	**$286.95**
101D144	Control Dual 12ft W/O Knob	05-11240	**$307.00**
101D144-RB	Control Dual 12ft Round Black Knob	05-11241	**$314.00**
101D144-RBC	Control Choke Dual 12ft Round Black Knob	05-11242	**$322.00**
101D144-RC	Control Dual 12ft Round Clear Knob	05-11243	**$314.00**
101D144-RCC	Control Choke Dual 12ft Round Clear Knob	05-11244	**$322.00**
101D144-RL	Control Dual 12ft Round Blue Knob	05-11245	**$296.95**
101D144-RLC	Control Choke Dual 12ft Round Blue Knob	05-11246	**$321.00**
101D144-RR	Control Dual 12ft Round Red Knob	05-11247	**$314.00**
101D144-RRC	Control Choke Dual 12ft Round Red Knob	05-11248	**$304.00**

THROTTLE AND CHOKE CABLES - LOCKING

Turn-to-Lock Choke Controls for Dual Carburetor 912/914 Series Rotax Engines Allows a neat, clean installation without a clunky splitter box These controls feature a turn-to-lock mechanism that requires a quarter turn of the knob to lock or unlock the control at any position. For a non-locking control go to Non-Locking Choke Controls. Stroke 3.5" Min.

Model No.	Description	Part No.	Price
1014d048	Control Turn-To-Lock Dual 4ft	05-11249	**$275.95**
1014d048-B	Control Turn-To-Lock Dual 4ft Ball Knob	05-11250	**$289.95**
1014d048-F	Control Turn-To-Lock Dual 4ft Fluted Knob	05-11251	**$308.00**
1014d048-FL	Control Turn-To-Lock Dual 4ft Fluted Knob	05-11252	**$298.95**
1014d048-P	Control Turn-To-Lock Dual 4ft 4-Prong Knob	05-11253	**$308.00**
1014d048-PL	Turn-To-Lock Dual 4ft 4-Prong Knob	05-11254	**$315.00**
1014d048-T	Control Turn-To-Lock Dual 4ft T-Handle Knob	05-11255	**$289.95**
1014d048-TL	Control Turn-To-Lock Dual 4ft T-Handle Knob	05-11256	**$298.95**
1014d072	Control Turn-To-Lock Dual 6ft	05-11257	**$300.95**
101d4072-B	Control Turn-To-Lock Dual 6ft Ball Knob	05-11258	**$323.00**
1014d072-F	Control Turn-To-Lock Dual 6ft Fluted Knob	05-11259	**$326.00**
101d4072-FL	Control Turn-To-Lock Dual 6ft Fluted Knob	05-11260	**$268.95**
1014d072-P	Control Turn-To-Lock Dual 6ft 4-Prong Knob	05-11261	**$326.00**
1014d072-PL	Control Turn-To-Lock Dual 6ft 4-Prong	05-11262	**$285.95**
1014d072-T	Control Turn-To Lock Dual 6ft T-Handle Knob	05-11263	**$308.00**
1014d072-TL	Control Turn-To-Lock Dual 6ft T-Handle Knob	05-11264	**$267.95**
1014d096	Control Turn-To-Lock Dual 8ft Wo Knob	05-11265	**$286.95**
1014d096-B	Control Turn-To-Lock Dual 8ft Ball Knob	05-11266	**$295.95**
1014d096-F	Control Turn-To-Lock Dual 8ft Fluted Knob	05-11267	**$295.95**
1014d096-FL	Control Turn-To-Lock Dual 8ft Fluted Knob	05-11268	**$305.00**
1014d096-P	Control Turn-To-Lock Dual 8ft 4-Prong Knob	05-11269	**$295.95**
1014d096-PL	Control Turn-To-Lock Dual 8ft 4-Prong Knob	05-11270	**$305.00**
1014d096-T	Control Turn-To-Lock Dual 8ft T-Handle Knob	05-11271	**$295.95**
1014d096-TL	Control Turn-To-Lock Dual 8ft T-Handle Knob	05-11272	**$286.95**

VERNIER ASSIST THROTTLE CONTROL

Vernier-Assist™ Throttle Controls for Dual Carburetor 912/914 Series Rotax Engines Innovative design allows a neat, clean installation without a clunky splitter box McFarlane invents a new type of vernier engine control This brand new type of control has all the fine adjustment benefits of an old style push-button release vernier control, with the simplicity, responsiveness and jam-proof safety of a friction lock control.

- Light weight and compact behind the panel
- Safer - No vernier threads to jam!
- US Patent No. 8,485,057

These light weight controls use a patent pending drive mechanism. The new roller action vernier provides smooth, jam-proof coarse and fine adjustment without a release button. Coarse adjustments are made by pushing the knob inwards or pulling the knob outwards. Fine adjustments are made by rotating the knob clockwise or counterclockwise.

Description	Control Length	Part No.	Price
MCTV005D048	48	05-11277	**$373.00**
MCTV005D072	72	05-11278	**$387.00**
MCTV0005D096	96	05-11279	**$331.00**
MCTV0005D144	144	05-11280	**$416.00**

AP

ATTACHING HARDWARE FOR CONTROLS

WIRE GRIP

Is a unique fitting which securely attaches to solid wire end push-pull cables. Uses a "pin vice" gripping action to attach a cable. The 5/8" long 10-32 threaded end will attach a clevis, ball joint, or other hardware for use with mixture controls, carb heat box, cabin air, or other applications, resulting in a clean, professional installation.

For .040-.050 dia cables .....P/N 05-08101 .....**$37.95**
For .055-.062 dia cables .....P/N 05-16000 .....**$17.50**
For .078 dia cables.....P/N 05-16001 .....**$16.50**
(Use P/N 05-16001 on A790, A820, A960, and A950 ACS controls)
(Use P/N 05-08101 on ACS A730, A740, A1770, and A1780 controls

AN486 TERMINALS

With 1/4-28 female threads. Fork hole dia. 3/16". AN486-3P has 17/64" fork opening. AN486-4P has 9/64" fork opening...

P/N AN486-3P.....**$26.95**
P/N AN486-4P.....**$25.75**

AN665-21R TERMINAL

Has 10-32 threads and 3/16" dia. fork hole. Furnished with clevis pin, cotter pin and locknut.

P/N 05-02500 .....**$17.95**

BOLT TYPE TERMINAL

Special 3/16" dia. bolt with drilled shank. With hex nuts and washers. Use instead of "bug" nut.

P/N 05-16100 .....**$1.16**

CONTROL HOUSING CLAMPS

AN742 plain loop type clamps to secure housing of throttles, dash controls, Bowden cable, etc. to airframe.

AN742-D3 for 3/16" O.D **$0.54**
AN742-D4 for 1/4" O.D **$0.47**

SLOTTED BRACKET CONTROL MOUNT

Notch of end fitting locks into slot of bracket to secure control. Steel Construction.

P/N 10465 .....**$30.50**

CLAMP STYLE CONTROL MOUNT

Protruding "finger" in clamp holds control in position. Two-piece steel clamp and base.

P/N 10464 ..... **$20.50**

WIRE STOP

Wire Stop is ideal for securing cable ends. Removable and completely reusable.
OD 1/4" ID 8-32 Length 3/8" for cable up to 3/32"

P/N 15-06291 .....**$1.32**

FLAP HANDLE COVER

This flap handle is durable, flame-retardant, and fairly easy to install. The end result is a 1 foot section of tubing that will fit on any flap handle (Or any other round handles) that is 3/4" to 7/8" in diameter. The exposed length on the handle should not exceed 12 inches subtracting the length of the grip. It is simple to install with a high heat blow dryer or heat gun. When installed it will have a dark gray texture and be highly resistant to minor dings. This tubing will confirm to small radius bends and cover most scratches and minor surface imperfections. .P/N 05-06920 .....**$18.99**

STANDARD FLAP HANDLE GRIP

This is a standard Black plastic grip that can be installed on any round 7/8" shaft. It has a cutout in the end for a release button. It is ribbed all the way around.....P/N 05-06923 .....**$14.70**

RED FLAP HANDLE GRIP

This is a standard Red plastic grip that can be installed on any round 7/8" shaft. It has a cutout in the end for a release button. It is ribbed on the top and has finger grips on the bottom. .....P/N 05-06922 .....**$14.70**

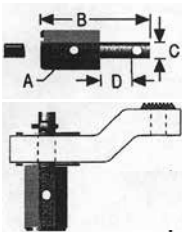
RUBBER HEX CUT FLAP HANDLE GRIP

This is a special Rubber grip that can be installed on any round 7/8" shaft. It has a cutout in the end for a release button. It has a raised Hex cut pattern all around the grip.....P/N 05-06921 .....**$17.50**

CARGO TIE-DOWN DOUBLE STUD FITTING

Double stud round ring
P/N 05-13140 .....**$62.80**
Double stud Twisted ring
P/N 05-13141 .....**$111.80**

CABLE END "B" NUT



Part No.	A	B	C	D
05-16210	.070	.825	.186	.241
05-16230	.086	.825	.249	.255
05-16240	.070	.645	.249	.093
05-16245	.070	.645	.186	.093

This universal NAP assembly will eliminate bent or smashed push-pull cable ends and get a strong hold at the same time. The cable end lays in a machined channel at the bottom of the screw hole. Tightening the compression screw snugs down on the cable end thus eliminating any potential crimping or smashing of the cable. Eliminates wear, possible cable breakage and enhances smooth push-pull operation. Complete with washers and cotter pin. All stainless steel, computer machined and easy to install.

Throttle, Wt,.26oz .....P/N 05-16210 .....**$16.50/ea.**
Mixture, Wt,.29oz.....P/N 05-16230 .....**$16.50/ea.**
Cabin Heat, Wt, .26oz..P/N 05-16240 .....**$16.50/ea.**
Carb Heat .....P/N 05-16245 .....**$16.50/ea.**

DISCOUNT: LESS 20% ON 25 OR MORE.

CABLE SAFE

A Safe "No-Slip-Grip" for your thru bulkhead cables. This unit prevents your throttle, mixture, choke or any push-pull cable from slipping at the firewall/ bulkhead location. Machined from lightweight aluminum, and final blue anodizing. Installation is simple with a drill and wrench. Once installed, the cable is threaded and the end nut is snugged down on the cable casing for positive encapsulation. Designed specifically for the aircraft industry, these fittings can be installed on virtually any application that requires a solid hold on any cable assembly with a rigid outer case. Thousands of applications: auto, boat, race car, motorhome. Used with 1/4" thru 7/32" diameter cable.

Cable Safe, Wt.: .84 oz. .....P/N 05-16250 .....**$18.65/ea.**

DISCOUNT: LESS 20% ON 25 OR MORE.

CABLE SAFE II - This Fitting is designed for use on coaxial type control cables. It has a two piece design to allow it to be placed over the cable inserted thru the firewall & tightened down, providing a positive lock.

For 1/4" cable housing .....P/N 05-16252 .....**$30.50/ea.**
For 3/8" cable housings.....P/N 05-16253 .....**$31.65/ea.**
ADAPTOR - For the cable safe to adapt down to 3/16" diameter cable housings. .....P/N 05-16251 .....**$7.50/ea.**

WIRE SWIVELS

OD: 1/4"; **ID:** 8-32; **Length:** .240"; **Cable Dia.:** 3/32 Max
Mfr. No. 2361..... P/N 06-01282 .....**$1.25**

CONDUIT RETAINER - STRAIGHT

OD: 5/16-24; **ID:** .260; **Length:** 2; **Conduit:** 7/32
Mfr. No. 2386 .....P/N 06-01281 .....**$3.35**

BOWDEN CABLE (SOLID WIRE ENDS)

Spiral-wound galvanized wire casing. Use for push-pull controls of any length. Inside cable dia. .078. Outside casing diameter 7/32".

P/N 05-15500 ..... **$3.90/ Ft.**

BOWDEN CABLE INNER WIRE

Stainless stainless steel wire .078" diameter. Sold by the foot.....P/N 05-15510 ..... **$0.90**
Bowden cable housing.....P/N 05-15505 ..... **$2.97**

BOWDEN CABLE CLAMP

Designed to provide a simple method of anchoring a typical wire wound cable. Used in anchor hole of 7/16" diameter.
For 3/16" Bowden Cable.....P/N 05-15705 .....**$26.95/ea.**
For 7/32" Bowden Cable.....P/N 05-03287 .....**$28.50/ea.**

BROWNLINE STYLE SEAT/CARGO TRACKS

6656

STE105

Aircraft Spruce now carries Brownline style seat track and extrusion for modifications and homebuilder, or experimental aircraft customers. The new seat track can be ordered as slotted extrusion with or without 0.785" diameter machined openings every one inch, and can be purchased in anodized standard lengths or by the inch. They can also be purchased in non-anodized bulk lengths from 75" to 180". Compatible with common MS33601 .73" diameter style fittings, the new tracks are precision machined, from aerospace grade 7075-T6511 aluminum with full traceability and material certification.

MFR Part No.	Description	Part No.	Price
6656-6	6" 6656-6	05-07163	**$26.95**
6656-12	12" 6656-12	05-07164	**$46.95**
6656-18	18" 6656-18	05-07166	**$57.75**
6656-24	24" 6656-24	05-07167	**$71.75**
6656-36	36" 6656-36	05-07168	**$107.75**
6656-48	48" 6656-48	05-07169	**$134.90**
STE105	Extrusion STE105 (Sold per inch)	05-07172	**$2.68**

FRICTION THROTTLE

Adjustable friction throttles with same construction as the ACS A-800 friction throttle but with a large (2" dia.) black solid plastic knob. Has 3/16" dia. 10-32 threaded end with 8° swivel. Stocked in the following lengths (measurement taken from under panel nut to end of threaded shaft with knob pushed in). Order by Part No. Made in the U.S.A.

Length	Part No.	Price	Length	Part No.	Price
3 Ft.	05-13700	**$186.75**	5 Ft.	05-13900	**$199.80**
4 Ft.	05-13800	**$192.90**	6Ft.	05-14000	**$203.95**

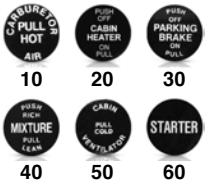
SPECIAL LENGTH CONTROLS - Use price of next longest stock length above plus $20 set-up charge. For lengths over 6 ft. also add $1.45 per foot. Allow 2-3 weeks. **THROTTLE KNOB -** Black solid plastic knob, 2" dia., with 1/4-28 internal threads. .....P/N 05-29100 ..... **$9.60**

BUTTON TYPE DASH CONTROL

Button Type Dash Control designed for use with many control system applications. Easily installed. Operates smoothly. All adjustable parts are metal. 7/8" Dural button on 3/16" diameter shaft. Maximum travel is 2". Furnished in 5 ft. and 8 ft. length. May be shortened. Order Inserts separately.

5 Ft. Dash Control .....P/N 05-14200 ..... **$29.70**
8 Ft. Dash Control .....P/N 05-14300 ..... **$35.50**

INSERTS ONLY



Round pressure-sensitive labels, 3/4" dia. White lettering on black background. Order by part number. Basic P/N is 05-144. Last two digits of P/N are as shown in above illustration. Example: 05-14460 is "Starter" ..... **$0.76 Ea**

MC6160 UNIVERSAL PUSH TO UNLOCK CONTROL

Perfect for Alt Air and Carb Heat controls for the experimental / homebuilt market. Knobs can be engraved for **$34.50** per knob. Custom laser marking of the knobs is available for **$34.50** per knob.

Receive a $15.00 discount for each additional knob with the same design.

Size	Color	Part No.	Price	Size	Color	Part No.	Price
6Ft	Black/Black	05-04607	**$34.50**	6Ft	Clear/Black	05-04610	**$153.75**
8Ft	Black/Black	05-04608	**$168.75**	8Ft	Clear/Black	05-04611	**$166.85**
12Ft	Black/Black	05-04609	**$179.75**	12Ft	Clear/Black	05-04612	**$168.75**

T-HANDLE DASH CONTROL

Manufactured of duralumin and brass. Locks positively, will not vibrate loose. One-fourth turn locks it in any position and will hold up to 100 lbs. Standard travel 2-1/2". T-handle is 1-3/4" wide. Can be mounted from front or rear of instrument panel. Complete with wire and casing which may be shortened.

SINGLE WIRE
5 Ft. Control .....P/N 05-15000 ..... **$68.80**
8 Ft. Control .....P/N 05-15100 ..... **$52.75**
12 Ft. Control .....P/N 05-15200 ..... **$53.75**
TWO WIRES
8 Ft. Control .....P/N 05-15300 ..... **$161.75**

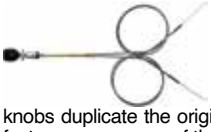
THROTTLE CONTROL

The phenolic knobs are hard and stable. Unlike the soft injection molded knobs, they resist scratching and the effects of sunlight and age. Meet the latest F.A.R. requirements for shape. and color. When ordering please provide: Make, Model, and Serial. .....P/N 05-02486 ..... **$613.00**

CARBURETOR HEAT CONTROL FOR CESSNAS

Carburetor Heat Controls for Cessna 140 thru 185 aircraft. High temperature Teflon lined conduit for reduced vibration wear, longer life and smooth, consistent control. Cheapy controls with poly liners will not tolerate engine temperatures and special heavier wire for more fatigue strength and reliability. Improved friction mechanism. High quality scratch resistant phenolic knob. Updated square knob meets the latest FAA standards. 4ft. end to end. .....P/N 05-11978 ..... **$248.95**

CARBURETOR HEAT CONTROL FOR PIPER PA 28



Special, heavier wire for more fatigue strength and reliability. Improved friction mechanism. Reduced vibration wear. Anti-rotate feature to reduce stress on the inner wire. High temperature Teflon lined conduit. High quality replacement knobs duplicate the original Piper color and shape to maintain the original factory appearance of the instrument panel ... P/N 05-15355 ..... **$248.95**

EYEBALL FIREWALL ASSEMBLIES

Allows easy installation of cables with oblique entry/exit angles. Includes the eyeball swivel, cable pass through, and line clasper. The Eyeball swivels up to 50 degrees and is clamped in place to complete installation. The hole is easily enlarged for other sizes.

Ball Matl.						
	Aluminum		Steel		Aluminum	
Appx. Wt.	0.08 lb.		0.07 lb.		0.10 lb.	
Model No.	SE961-B		SE961-S		TTp	
Hole Size	Part No.	Price	Part No.	Price	Part No.	Price
.125"	05-03440	**$51.99**	05-00764	**$58.75**	05-00722	**$67.75**
.188"	05-00957	**$51.99**	05-00766	**$61.75**	05-00723	**$67.75**
.218"	05-01378	**$51.99**	05-01381	**$58.75**	05-01383	**$67.75**
.240"	05-01379	**$51.99**	05-01382	**$61.75**	05-01384	**$67.75**
.250"	05-00958	**$51.99**	05-00767	**$60.75**	05-00724	**$68.75**
.260"	05-00959	**$51.99**	05-00768	**$61.75**	05-00726	**$67.75**
.312	---	**---**	05-12502	**$58.75**	---	**---**
.330	05-12498	**$51.99**	05-12503	**$61.75**	05-12493	**$67.75**
.375"	05-01380	**$51.99**	05-12504	**$70.75**	05-12494	**$67.75**
.438	05-12499	**$51.99**	05-12505	**$60.75**	05-12495	**$67.75**
.500	05-12500	**$55.75**	05-12506	**$60.75**	05-12497	**$67.75**
.562	---	**---**	05-12507	**$61.75**	---	**---**
.750	---	**---**	05-12508	**$70.75**	---	**---**

SERIES 4000 SPHERICAL METAL GROMMETS

The 4000 Series Spherical Metal Grommets have been developed to offer superior and robust aircraft cockpit fire protection and to give flexibility in routing pass-through controls at angles up to 50° from perpendicular. The 4000 Series require only a single hole for minimum installation time. All-steel construction allows the product to meet temperature requirements of FAA Aircraft Circular 20-135 for certificated aircraft. **Model 4100** has an extended body and enlarged body flange for use on composite firewalls. **Model 4200** accommodates steel firewalls up to 0.040" thickness.

4100 Series			4200 Series		
Size	Part No.	Price	Size	Part No.	Price
.125"	05-06893	**$117.75**	.125"	05-06905	**$103.75**
.188"	05-06894	**$117.75**	.188"	05-06906	**$103.75**
.218"	05-06895	**$117.75**	.218"	05-06907	**$103.75**
.240"	05-06896	**$117.75**	.240"	05-06908	**$103.75**
.250"	05-06897	**$117.75**	.250"	05-06909	**$103.75**
.260"	05-06898	**$117.75**	.260"	05-06910	**$103.75**
.312"	05-06899	**$100.75**	.312"	05-06911	**$103.75**
.375"	05-06901	**$117.75**	.375"	05-06912	**$103.75**
.438"	05-06902	**$118.75**	.438"	05-06913	**$103.75**

MODEL 4100 SERIES SHOWN HAVE A BODY LENGTH OF 1/2". SEE WEBSITE FOR LONGER BODY LENGTHS.

SERIES 6000/7000 SPHERICAL METAL GROMMETS

The 6000 Series Spherical Metal grommets have been developed to address these issues: Space restrictions on some firewalls, Ease and time required for installation, FAA requirements for fire protection, and Minimum parts count.

This series requires only space for a 3/4" wrench on the firewall, and can accommodate ball hole sizes from .125" to .260".

The 7000 Series Spherical Metal Grommets have been developed to require minimal preparation and installation time in a robust, all-steel product with a minimal parts count and parts less likely to be dropped or lost during installation. As an all-steel product, it meets the heat resistance requirements of FCC AC 135. This is a requirement for firewall use in certificated aircraft. Installation still requires FAA field approval for those aircraft.

The Model 7000 can accommodate a pass-through up to .925" in diameter, making it ideal for pass-throughs.

6000 Series			7000 Series		
Size	Part No.	Price	Size	Part No.	Price
.125"	05-06929	**$82.75**	.125"	05-06935	**$61.75**
.188"	05-06930	**$82.75**	.188"	05-06936	**$62.99**
.218"	05-06931	**$82.75**	.218"	05-06937	**$61.75**
.240"	05-06932	**$82.75**	.240"	05-06938	**$61.75**
.250"	05-06933	**$82.75**	.250"	05-06939	**$63.75**
.260"	05-06934	**$82.75**	.260"	05-06940	**$90.75**
			.312"	05-06941	**$63.75**
			.375"	05-06942	**$63.75**
			.438"	05-06943	**$61.75**
			.500"	05-06944	**$61.75**
			.562"	05-06945	**$61.75**
			.750	05-12501	**$63.75**

SEE WWW.AIRCRAFTSPRUCE.CA FOR COMPLETE SELECTION OF SPHERICAL METAL GROMMETS

AP

THROTTLE QUADRANTS

AP

THROTTLE QUADRANTS FOR RV'S

These quadrants are made from aircraft quality anodized aluminum for long life and corrosion resistance brass friction plates are adjustable to fit individual preferences. Black anodized top plates are machined and engraved on a CNC mill to exacting tolerances for an excellent finish. side plates are laser cut insuring a perfect fit and feel. All hardware used meets AN standards. Note: All throttle quadrants require a AN665-21R clevis with an AN393-11 clevis pin.
The side mount style quadrants are intended for use in tandem airplanes such as the RV4, RV8, Stardusters, Baby Great Lakes, One Design, Acro Sport & Sonerai. Center mount style is intended for use in side-by-side aircraft such as RV's, Sonex, Thorp T18 & Pulsars.

2 CONTROL LEVER

Model Specifications:
Side Mount Curved Top Model: SMCT2L
Weight: 8 Oz.
7-3/4" H x 4-3/4" W x 1-1/2" D
P/N 05-00697 .....**$314.00**

3 CONTROL LEVER

Side Mount Curved Top Model: SMCT3L
Weight: 10 Oz.
7-3/4" H x 4-3/4" W x 2" D
P/N 05-00698..... **$373.00**

2 CONTROL LEVER

Center Mount Curved Top Model: CMCT2L
Weight: 10 Oz.
7-3/4" H x 7" W x 2" D
P/N 05-00699 .....**$361.00**

3 CONTROL LEVER

Center Mount Curved Top Model: CMCT3L
Weight: 12 Oz.
7-3/4" H x 7" W x 2" D
P/N 05-00701..... **$395.00**

2 CONTROL LEVER

Side Mount Flat Top Model: CT82F
Weight: 8 Oz.
7-3/4" H x 4-3/4" W x 1-1/2" D
P/N 05-00702 .....**$316.00**

3 CONTROL LEVER

Side Mount Flat Top Model: CT83F
Weight: 10 Oz.
7-3/4" H x 4-3/4" W x 2" D
P/N 05-00703..... **$362.00**

RV8 REAR QUADRANT

A single lever rear quadrant with an engraved top plate and a short handle for better clearance.
8" x 5-1/4" x 2".....P/N 05-04531 .....**$192.90**

PIPER PUSH PULL CABLE

65" Piper Push Pull Cable - Less Knob.

- Applicability: Piper PA-12, PA-15, PA-16, PA-17, PA-18, PA-20, PA-22
- Used for mixture, cabin heat, carb heat and other applications
- Stainless steel
- Length: 65 inches
- Knob not included
- FAA/PMA approved
- Supercedes part numbers 16775-00, 41481-06, 41481-07, 41481-08, 41481-10, 41481-11, 41481-13, 41481-15, 41481-16, 454-120, 16775-000, 41481-006, 41481-007, 41481-008, 41481-010, 41481-011, 41481-013, 41481-015, and 41481-016

P/N 05-21968 .....**$101.80**

ACS THROTTLE QUADRANTS

Available in two lever designs. The 2-lever control has black plastic "Throttle" knob and red "Mixture" knob. The 3-lever control has blue "Prop" knob in addition to the throttle and mixture knobs. Built-in friction lock. Levers have 2-1/2" travel. Quadrants fit on left or right side of cockpit and can be used in tandem. Complete with aluminized Mylar knob inserts. Ends of throttle and prop levers have 3/16" dia. holes for attachment of push-pull controls with clevis terminals. End of mixture lever has .076" dia. hole to accept solid wire control such as Bowden cable. Made in the U.S.A.
Two-Lever Quadrant .....P/N 05-00960 .....**$71.75**
Three-Lever Quadrant (pictured).....P/N 05-00961 .....**$94.90**

CIRRUS CONTROL QUADRANT UPGRADES

These Control Quadrant Upgrades result in greater fuel efficiency with reduced engine wear by means of a propeller RPM control lever. The Prop control lever for CIRRUS SR20 reduces noise significantly while providing a much more relaxing and enjoyable flight for both pilot and passengers. Simple non-structural installation. Traditional propeller RPM control, enabling "oversquare" operations as in other high performance aircraft (Columbia/Corvalis, Mooney, Piper, Cessna, Beech, etc.). Reduced fuel consumption, 1+ gallon per hour in cruise and 5+ gallons per hour in a cruise-climb. Pays for itself in approximately 200 hours of operation. Dramatically reduced cabin noise and vibration. Airport/environmentally friendly noise abatement. Reduced engine wear and operational costs. Boost pump LED to remind pilots. Easy installation and easy return to OEM status. Compatible with the CIRRUS SR20.
SR20.....P/N 05-07192 .....**$4,830.00**
SR22.....P/N 05-07193 .....**$4,830.00**

STAINLESS STEEL FIREWALL PASS THRU KIT

The heart of this kit is a one piece metal spun flanged tube, made from .050" thick stainless steel, along with a .050" thick reinforcement plate. (Other flanges on the market are made from .020" thick stainless flat stock, rolled and spot welded together). The flange is the strongest, most indestructible flange on the market. The flange mounts on the inside (crew side) of the firewall, and the reinforcement plate mounts on the forward (engine) side of the firewall – capturing the firewall between 2 pieces of .050" thick stainless steel. The flange has a generous radius formed between the flange and tube to prevent chaffing of wires and cables. Most builders will utilize TWO firewall pass thru units – one for high current cables (battery, alternator, main buss power) and the second for smaller signal wiring for engine instrumentation and control functions.
P/N 12-04762 .....**$118.75**

ROTAX DUAL CARBURETOR THROTTLE CONTROLS

Allows a neat, clean throttle installation without a clunky splitter box. Supersmooth friction lock, heavy duty 0.062 inch stainless steel inner wires. Standard knob is egg shape and ball knob is sphere shape.

Description	Part No.	Price	Description	Part No.	Price
4' Std Knob	05-04385	**$275.95**	6' Std Knob	05-04386	**$305.00**
6' Std Knob	05-04387	**$325.00**	4' Ball Knob	05-04388	**$270.95**
6' Ball Knob	05-04389	**$289.95**	8' Ball Knob	05-04390	**$325.00**

HOMEBUILDERS THROTTLE QUADRANTS

These quality quadrants have been in use in a wide variety of experimental and ultralight aircraft for over 25 years. Designed and manufactured to provide years of dependable, precise performance.

Model #1 – This external reversing hook-up quadrant can be used in tandem for dual control. Available with 1, 2, or 3 lever. Weight: 10 oz. Body size: 3.5" x 4".
Single lever quadrant .....P/N 05-15905 .....**$87.99**
Two Lever Quadrant.....P/N 05-15910 .....**$95.75**
Three Lever Quadrant.....P/N 05-15915 .....**$101.95**
Add -F to P/N and $10 to price for adjustable friction.

Model #2 – This internal non-reversing hook up quadrant is often used on RV-4 and similar homebuilt aircraft. Available in 1, 2, or 3 lever models. Weight: 12 oz. Body Size: 3.5" x 4".
Single lever Quadrant.....P/N 05-15920 .....**$86.90**
Two Lever Quadrant.....P/N 05-15925 .....**$132.75**
Three Lever Quadrant.....P/N 05-15930 .....**$101.95**
Add -F to P/N and $10 to price for adjustable friction.

Model #3 – This internal reversing hook up quadrant is ideal for a variety of different aircraft models. Available with 1, 2, or 3 lever. Weight: 10 oz. Body size: 3.5" x 4".
Single lever Quadrant.....P/N 05-15935 .....**$92.75**
Two Lever Quadrant.....P/N 05-15940 .....**$93.75**
Three Lever Quadrant.....P/N 05-15945 .....**$101.95**
Add -F to P/N and $10 to price for adjustable friction.

Model #4 – This popular quadrant was specifically designed for use on RV-3 and RV-4 aircraft and is also applicable to many other homebuilt aircraft. Furnished in two lever model only and furnished with adjustable friction. Weight: 12 oz. Body size: 3.5" x 4".
Two lever Quadrant.....P/N 05-15950 .....**$108.75**

Model #5 – Panel mount quadrant can be an internal reversing or internal non-reversing. Available in S-series only. One, two or three levers. Friction or non-friction. Panel Mount Reversing listed below
Single lever Quadrant.....P/N 05-02436 .....**$90.75**
Two Lever Quadrant.....P/N 05-02437 .....**$97.85**
Three Lever Quadrant.....P/N 05-02438 .....**$101.95**

Model #6 – Twin-engine model: Non-reversing internal or reversing internal unit with a four-arm configuration. L-series only. Friction or non-friction. Twin Engine Reversing Internal listed below.
Four lever Quadrant .....P/N 05-02364 .....**$127.99**
Four lever Quadrant w/ Friction
P/N 05-02365 .....**$143.75**

T-BAR HANDLE FOR QUADRANTS

This handle is 3-1/2" long and 1-1/4" round and fits all of the Homebuilders Quadrants above. The arm slot is offset to one side. It is molded urethane and is very durable. Add -1 or -1F (as applicable) to the Part No. and $25.00 to the price (example: 05-15925-1)

ACS CONTROL WHEEL A-1310

Designed to be more user friendly than standard control wheels. Mounting position can be raised or lowered one inch by rotating the mounting flange. All parts machined from 6061-T6 billet. The A-1310 Control has cavities for wiring, but does not come prewired or with a mic switch. They can be ordered with a hole drilled for the mic or can be drilled later. Wt: 26 oz. Mounting flange hole sizes: 3/4" or 7/8". Made in USA.
3/4" Black Anodized .....P/N 05-02248 .....**$137.80**
3/4" Bare Aluminum.....P/N 05-02279 .....**$137.80**
7/8" Black Anodized .....P/N 05-02282 .....**$137.80**
7/8" Bare Aluminum.....P/N 05-02284 .....**$147.75**

BEECH BONANZA/BARON CONTROL WHEELS

These control wheels are identical in design to the new Beechcraft large ram's horn style wheels. They can be powder coated black with a highly durable material. Peeling or yellowing that occurs on older Beech wheels has been eliminated by the powder coating process. This control wheel is a direct replacement for the Beech/Raytheon 60-524080-13, 14 (for F33A, F33C, V35B, A36, and B36TC) and , -17 (for F33A, F33C, A36, B36TC, and 58) control wheels. Can be installed on many other aircraft using FAA form 337 for field approval. FAA Form 8130-3.

Hand crafted black leather wrapping is available for these control wheels. Each wheel is individually hand laced and custom fitted to the wheel. We can also hand wrap your existing Beech control wheel in leather. Send your control wheel to Aircraft Spruce in Corona, CA and allow 3 weeks for delivery. A Davtron MB800 digital chronometer installed in the faceplate of the control wheel is also available. These Control Wheels now include an installation kit (Thumbplate, Faceplate, Screws). **Custom Leather Wrapped Wheel is available for and additional cost.** .....P/N 05-00547 .....**$2,892.00**

Description	Part No.	Price
Basic Control Wheel Factory White	05-00545	**$1,240.00**
Basic control Wheel Black Powder Coat	05-06928	**$1,372.00**

AERO TECH BONANZA CONTROL WHEEL

This control wheel is an ergonomically improved control wheel with improved feel and a new thumb rest profile for comfort. This control wheel by Aero Tech Aviation Design is available for installation on Beech Model 36, A36, G36. A36TC, B36TC. Can be installed on listed aircraft as a direct replacement part or other aircraft with field approval FAA form 337. Additional finishes of Black Powder Coat (T001-1232110-D013), and Black Wrinkle Finish Powder Coat (T001-1232110-D015) are available for an additional fee, please contract Aircraft Spruce for details. **Note**: Thumb Plates and face plate not included .....P/N 05-26702 .....**$118.75**

CONTROL YOKE UPGRADES

Grips

Center Cushion

Now flaking & peeling finish on worn control yokes can be remedied cost effectively by these pilot-installable, semi-flexible, molded grips which are available with push-to-talk button built-into the top of the yoke (not the side). The Model SX-100 grips (pilot & copilot set) and optional, built-in, Model SX-101 plug-in push-to-talk button simply slip-over the thin, "ram's horn" control yokes of Cessna C510, C172, C177, C180, Alon Aircoupe, and others. Their thick, padded feel and built-in push-to-talk button add comfort, convenience & value to vintage airplanes. The top-mounted, low profile, miniature push-to-talk button supplied completely wired with plug, jack and coiled cord, is less likely to be pressed by accident, get in the way or slip out of position than bulky, side-strapped, units.

Description	Application	Part No.	Price
SX-200 Non-PTT Grip Each	Cessna yokes- C510, C172, C177, C180, Alon Aircoupe, and others.	05-22252	**$92.75**
SX-201 Single PTT Grip W/ Coiled Cord Plug In	Cessna yokes- C510, C172, C177, C180, Alon Aircoupe, and others.	05-22253	**$162.75**
SX-110 center cushion Set (Black)	Small Cessna Ram Horn - C150, C172, C177, prior to 1973	05-16610	**$79.75**

AP

BEECHCRAFT ACCESSORIES

Designed & built by real-world pilots, manufactured to the highest standards. These products are built for those incomparable Beechcraft. Years of experience and the highest quality materials and construction result in the best products available for Bonanzas & Barons. All have FAA STC/PMA as applicable.

BONANZA/BARON CONTROL YOKE LOCK

Protect your investment with this heat treated lock. It installs quickly and simply (no modification is needed) but cannot be removed without being unlocked. It is a permanent, direct replacement for the original equipment. Complete with the highest quality lock, instructions, and all hardware. .....P/N 05-00649 .....**$633.00**

Optional clipboard for clearances or notes makes a stable flight center. Spring-loaded, it snaps out of the way in seconds.

P/N 05-01335 .....**$280.95**

BEECH THROTTLE, MIXTURE, PROP KNOB SET

These high-strength knobs for Bonanzas are a big improvement over old, cracked original equipment and likely the best replacement knobs on the market. Bright color-coded space-age material will not crack or fade and will not get hot like aluminum knobs. .....P/N 05-00652 .....**$316.00**

Push buttons only, with new screws .....P/N 05-00653 .....**$144.75**

WINDOW VENT HINGE & LATCH KIT

For new windows only on Mooney, Piper, Socata, Commander.

P/N 05-01336 .....**$217.95**

BEECH STORM WINDOW HINGE/LATCH KIT

Every Bonanza or Baron pilot will appreciate the quality workmanship in every one of these storm window hinge/latch kits. Professional construction means they work smoothly, and they fit standard factory window holes with no modifications.

Complete hinge/latch kit...P/N 05-00654 .....**$315.00**
Latch & Striker only.....P/N 05-00655 .....**$174.95**
Hinges Only.....P/N 05-00656 .....**$174.95**

BONANZA NOSE GEAR BRACE

These PMA approved replacements for the Nose Gear Brace are used in early Bonanzas. Applicability: Model 35 D-1 thru D6561 Model 33 CD-1 thru CD-370 Old unit (core) must be returned. **Features**: FAA/PMA Approved direct replacement part • One piece aluminum stronger than OEM part • Durable corrosion resistant white powder coated finish • Weight increase of 4.56 lbs. beneficial for aft CG aircraft. • Completely improved design eliminates potential for any corrosion • Upper and lower bronze bushings included • Grease fittings included.

P/N 05-02463 .....**$5,376.00**

BEECH DOOR HINGE KITS

Main landing gear door hinge kits from Marsh Brothers Aviation for all models of Beech Bonanza and Debonair. Avoid unnecessary and costly repairs by installing AeroTough™ GF polymer bushings. This preventative maintenance solution will ensure that you will never have the complications with seized bushings that traditional metal bushings can exhibit.

Bonanza .....P/N 05-11934 .....**$627.00**
Baron.....P/N 05-11935 .....**$652.00**
Bonanza/Baron Install Kit.....P/N 05-12241 .....**$137.75**

ALTERNATOR BLAST AIR DUCTS

This 24V Alternator Blast Air Duct is for use with Beech Bonanza. Comes with 8...P/N 05-10907 .....**$23.50**

NOT FAA APPROVED

BEECHCRAFT BONANZA INTAKE DUCT

Beechcraft (Raytheon) Bonanza Intake Duct fits most 1964 on up: I0520 & I0550 Beech. Models: S35-V35-V35A-V35B-V35TC C33A, F33A, A36

3 ply with Nomex reinforcement & includes Clamps.

Gloss Red .....P/N 05-06564 .....**$312.00**
Gloss Blue .....P/N 05-06565 .....**$314.00**

NOT FAA APPROVED

TOW PIN FOR BEECHCRAFT FAA/PMA APPROVED

Installation Eligibility:

Debonair: 35-A33, 35-B33, 35-33, E33, F33

Bonanza: G33, 35-C33A, E33A, F33A, F33C, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC

Baron: 20-21-3 95-55, 95-55, 95-B55, 59-C55, D55, E55, 58, 56TC, A56TC, 58TC, 58P

RAPCO Tow Pin.....P/N 05-01625 .....**$45.50**

CESSNA GOLDEN EAGLE YOKE EMBLEM

Replace Your Original, Damaged, Or Missing Yoke Inserts With Our New Faux Carbon Fiber Insert! Includes Beautiful Domed Golden Eagle Emblem (Does NOT Include Yoke or Padded Surround) Faux Carbon Fiber Insert Is Same Size As Your Original Piece - Installation Instructions Included.

P/N 09-03786 .....**$172.75**

BEECHCRAFT ELEVATOR FORWARD CABLE MC35-524385

This elevator cable, P/N MC35-524385 is part of the line of FAA-PMA approved flight control cables for Beechcraft aircraft.

P/N 05-15258 .....**$448.00**

BEECHCRAFT KING AIR FIRE DETECTOR SHIELDS

Vendor Part Number	Replacement Part Number	Model Eligibility	Part Number	Price
TL-101-910079-3	101-910079-3	B200, B200C, B200C (C-12F), B200C (UC-12F), B200C (UC-12M), B200C (C-12R), B200CT, B200T	05-11052	**$506.00**
TL-101-910079-1	101-910078-3	200, 200C, 200CT	05-11053	**$206.95**
TL-100-570029-1	100-570029-1	C90, C90A, C90GT, E90	05-11054	**$281.95**

BEECHCRAFT MAIN GEAR BOLT

This is a replacement for discontinued Main Gear Bolt part number CA101-810089-1. The new part number is CA101-810089-1A. This part has been tested and is superior in tensile strength and fatigue and crack resistance. Eligible for Beechcraft 1900 series aircraft, this is a life limited part that meets all requirements for the full 5 year/10,000 cycle life. The part number and serial number are engraved on the bolt head.

P/N 05-04163 .....**$472.00**

BEECHCRAFT PATCH

4" x 2", ready to be ironed or sewn on.....P/N 14-00131 .....**$6.50**

FUEL TANKS

FUEL WARNING SYSTEM

Float-action sensor in tank activates panel warning light when fuel supply is low. All-PBT unit, impervious to aviation fuel. Use AN 867-4 flange for mounting.

Sensor .....P/N 6905-400 ..... **$48.50**
Warning Light .....P/N 05-17660 ..... **$52.75**
Bulb(GE-330) .....P/N 11-04016 ..... **$1.32**

DISCOUNTS: 10% ON 6, 15% ON 12, 20% ON 50

INVERTED PICKUP TUBES

"Flop" tubes for inverted flight are made from Aeroquip 701-6 flexible hose. End fitting swaged onto hose has a 1/4" male pipe thread attached to tank outlet. Available for any of the tanks listed, or others. Specify tank model and tube length. Minimum length available is 9"

9" ..... P/N 05-20509 .. **$156.99**
10" ..... P/N 05-20510 ... **$158.75**
11" ..... P/N 05-20511 .. **$155.75**
12" ..... P/N 05-20512 ... **$155.75**
13" ..... P/N 05-20513 .. **$177.75**

Add $1.80 to 13" price for each additional inch.

PICKUP TUBE ADAPTER

Specially machined AN912 fitting for connecting pickup tube to fuel tank.
For 12" tubes & longer .....P/N 10380 ..... **$17.50**
Specially machined AN912-12D for shorter than 12"
P/N 10380-1 ..... **$114.75**

FLOP TUBE ADAPTER WITH SIDE OUTLET

This fitting eliminates the need to put an angle fitting on standard adapter. 1/4" female pipe thread on side and bottom & 1" male pipe or 3/4" male pipe on bottom. Use with AN867-6 or 8.

1" Male Pipe .....P/N 05-20525 ..... **$112.85**
3/4" Male Pipe .....P/N 05-20526 ..... **$114.75**

ALUMINUM WELDING FLANGES

Part No.	Female Pipe Thread	Dia. "D" In	Height "H" In	Price Each
AN867-1	1/8"	1-1/2	7/16	**$13.50**
AN867-2	1/4"	1-3/4	5/8	**$14.99**
AN867-3	3/8"	1-7/8	5/8	**$16.50**
AN867-4	1/2"	2	3/4	**$16.50**
AN867-6	3/4"	2-1/4	13/16	**$21.55**
AN867-8	1"	2-11/16"	1"	**$28.95**

FINGER STRAINERS

Finger strainers are strainers for fuel tank outlets. Standard size features a brass fitting with 3/8" male pipe thread which fits AN867-3 welding flange, and 1/4" female pipe thread for valve or fuel line fitting. Screen is 16 mesh brass.

Large finger strainer has a 3/8"-NPT x 1/2"-M-NPT brass bushing with a T304 stainless steel screen.

Standard.... P/N 05-17700. **$12.50** Large .... P/N 05-04445 ..... **$36.60**

RAVEN HEADER TANKS

Header tank used for any aerobatic aircraft such as Pitts Specials etc. Comes with weld-in fitting for main tank. 16" x 7" in diameter. Holds approximately 2.5 gallons. Weighs 3 lbs .....P/N 05-00913 ..... **$737.00**

RAVEN WING TANKS

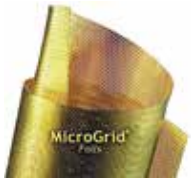
Wing tank used to hold extra fuel or smoke oil in top wing of aerobatic biplanes.

S1-S Wing Tank .....P/N 05-00914 ..... **$726.00**
S1-C Wing Tank .....P/N 05-00915 ..... **$606.00**
Experimental S2, Eagle Wing Tank .....P/N 05-00916 ..... **$742.00**

STRUT FOOTBALL FUEL TANKS

5 gallon strut tank with filler cap and pick up cap. Made from see through Cross Link Polyethylene (XLPE) which prevents material breakdown due to ethanol use. This tank may be mounted right on the strut and allows for easy access for filling and viewing to check fuel levels. Experimental Only .....P/N 05-12347 ..... **$206.95**

MICROGRID LIGHTNING STRIKE PROTECTION



MicroGrid precision expanded strike protection in composite aircraft structures. In fact, MicroGrid is used by Boeing, Embraer, and many other aircraft manufacturers. MicroGrid's single unit structure is superior because it can't unravel like woven wire. Nor is costly material removed as in etching or stamping.

The appropriate gauge and pattern of material is easily adhered to the composite for 200,000 amps of conductivity. Aircraft are easily repaired after a lightning strike by simply sanding away the surface to apply a patch of new MicroGrid. And fantastically flexible MicroGrid easily conforms to a variety of shapes and contours in both manufacture and repair. It can be bent, shaped and laminated with a variety of materials, including those which expand, contract and flex.

ALUMINUM OR COPPER MICROGRID

Aluminum MicroGrid is ideal for most composite aircraft structure applications and is nearly half the weight of the copper MicroGrid. Copper MicroGrid is recommended for use with carbon fiber structures. Two layers of MicroGrid are recommended over fuel tank applications.

Aluminum MicroGrid (37" wide).....P/N 05-02631 ..... **$29.90 ft.**
Copper MicroGrid (18" wide).....P/N 05-02632 ..... **$18.65 ft.**

	Aluminum	Copper
Weight - Lbs./SF	0.016	0.029
Base Metal Thickness	0.004 inch	0.003 inch
LWD	0.080 inch	0.125 inch
Overall Thickness	0.006 inch	0.005 inch
Open Area	68%	77%

ALUMINUM FUEL TANKS

PITTS SPECIAL FUEL TANK

Design	Capacity (Gallons)	Main Tank	Part No.	Tank for Inverted Flight	Part No.	Each Wing Tank	Part No.
Acro-Sport II	24			**$1,565.00**	05-18510		
Baby Greatlakes	10	**$2,490.00**	05-03058				
Cougar	23	**$1,636.00**	05-18600				
Cuby	12.5	**$1,338.00**	05-18700				
EAA Bi-Plane	16	**$1,340.00**	05-18800				
Fly Baby	14	**$1,622.00**	05-18900				
Hatz Bi-Plane	18					**$2,334.00**	05-19020
Mustang I	16	**$1,644.00**	05-19100				
Mustang II	27	**$2,175.00**	05-19200				
Pitts Special	19			**$1,139.00**	05-19310		
Pober Pixie	12	**(Send Drwg. 05-19400)**				**$2,440.00**	05-19420
Skybolt	29			**$1,262.00**	05-19510	**$1,131.00**	05-19520
Smith Miniplane	16	**$2,084.00**	05-19600				
Starduster I	18	**$2,084.00**	05-19700	**$2,853.00**	05-19710	**$2,334.00**	05-19720
Starduster II	26	**$2,496.00**	05-19800	**$2,668.00**	05-19810	**$2,334.00**	05-19820
Tailwind		**$2,073.00**	05-19950				

SEE PRO-SEAL TANK SEALANT AND SLOSHING COMPONENTS IN COVERING SUPPLIES SECTION

OPTIONAL TANK INSTALLATIONS

Sight Gauge (Fittings and Tubing) for Pitts or Skybolt Tanks - no installation charge.
P/N 05-29000 ..... **$61.80**

FLOP TUBE, LOW FUEL LEVEL WARNING, FLUSH FILLER CAP ARE AVAILABLE. CALL FOR PRICING.

FUEL TANK HOLD DOWN STRAPS

Fabricated from.035 stainless steel. Straps are 1"wide x 36" long. For VariViggen Starduster & others..... P/N 05-20400 ..... **$11.50**

ANTI-CHAFE CHANNEL FOR FUEL TANK STRAPS

Neoprene rubber extrusions to hold 1" wide metal fuel tank straps.
#9 Channel..... P/N 05-01800 ..... **$3.60 Ft.**

CAUTION: Electric sender should not be installed in a tank with flop tube to prevent possible entanglement. Tank should be free of everything but flop tube. Use sight gauge with flop tube.
Prices are based on tanks manufactured to the original plans as issued by the designer. Minor modifications such as changes in tank fitting sizes or locations can be made at additional charge. Please submit all pertinent data with respect to desired changes at time of order.
ALLOW 2-3 WEEKS DELIVERY TIME ON ALL TANKS.

CUSTOM TANKS AVAILABLE: SEND BLUEPRINT OR SKETCH FOR QUOTATION
ADD $15.00 BOX CHARGE FOR CRATING TANKS FOR SHIPMENT

CURTIS SUPERIOR VALVES

CURTIS DRAIN VALVES

Curtis Superior Valve Co., Inc. Fuel and Oil Drain Valves have been the standard in the industry for over 60 years. Curtis valves are used in OEM applications and in the military aircraft. Most valves are made of high quality brass for resistance to corrosion and rusting ,giving them long service life and extended seal life. Most Curtis Valves have a spiral to open and twist to lock for easy fuel sampling and oil draining.

AP

PIPE THREAD VALVES

Model Number	Thread Size	Installed Length	Material	Part No.	Price
CCA-1250*	1/8" NPT	.790"	B	05-04045	**$21.90**
CCA-1300*	1/4" NPT	.965"	B	05-04046	**$22.80**
CCA-1350*	38" NPT	1.08"	B	05-04047	**$29.70**
CCA-1400*	1/2" NPT	1.125"	B	05-03060	**$46.50**
CCA-1550*	1/8" NPT	.790"	B	05-01869	**$21.50**
CCA-1600*	1/4" NPT	.945"	B	05-01870	**$21.90**
CCA-1650*	3/8" NPT	1.08"	B	05-01871	**$28.95**
CCA-1700*	1/2" NPT	1.125"	B	05-01872	**$46.50**
CCA-3600*	1/4" NPT	.965"	BC	05-04048	**$28.50**
CCA-36150*	1/8" NPT	.790"	BC	05-03654	**$29.90**
CCA-39000*	1/4" NPT	.925"	SS	05-03655	**$57.80**
CCA-4800*	1/4" NPT	.945"	BC	05-04049	**$34.50**
CCA-4850*	1/8" NPT	.790"	BC	05-00686	**$30.50**
CCA-4900*	1/4" NPT	.945"	BC	05-11718	**$35.70**
CCA-4950*	3/8" NPT	1.08"	BC	05-04050	**$34.50**
CCA-7000	3/8" NPT	1.08"	AA	05-15401	**$36.60**
CCA-7450*	1/8" NPT	.790"	BC	05-03652	**$29.70**
CCB-36700*	1/8" NPT	.790"	BC	05-03659	**$21.90**
CCB-36750*	1/8" NPT	.725"	SS	05-03660	**$48.50**
CCA-1100	1/8" NPT	.790"	A	05-12914	**$32.80**
CCA-1500	1/8" NPT	.790"	A	05-12915	**$32.80**

05-03660

05-04050

05-03652

STRAIGHT THREAD VALVES

Model Number	Thread Size	Installed Length	Material	Part No.	Price
CCA-5800-1*[1]	7/16" 20 NF3	.620"	BC	05-03651	**$35.70**
CCA-5800-3*[1]	7/16" 20 NF3	1.205"	BC	05-03694	**$32.80**
CCA-4350*	9/16" 18 UNF3	.635"	BC	05-03648	**$39.50**
CCA-31300*[1]	9/16" 18 NF3	1.234"	BC	05-04053	**$43.50**
CCA-39550*	5/8" 18 NF3	1.054"	B	05-01873	**$57.75**
CCA-36400*[1]	9/16" 18 UNF	.635"	BC	05-04055	**$40.75**
CCA-4300*	7/16" 20NF3	.625"	BC	05-03647	**$44.99**
CCB-4320*[1]	7/16" 20 NF3	.835"	BC	05-03657	**$29.90**
CCB-32000 Low Profile	5/8" 18 NF3	.600"	A	05-22224	**$195.75**

05-03651

05-03657

05-01873

05-01873

*=TSO-C76, [1]=Non-Locking, B= Brass, AA= Aluminum Alodine, A= Aluminum, BC= Brass/Cadmium Plated, SS= Stainless Steel

FLUSH MOUNTED VALVES

Model No.	Thread Size	Auto Valve PN	Saf-Air PN	Part No.	Price
CCA-2500	1/8 NPT	F391-18	SA-18	05-04885	**$32.80**
CCA-2600	1/4 NPT	F391-14	SA-14	05-04886	**$32.80**
CCA-2700	3/8-24 UNF	F391-32	SA-32	05-04887	**$32.80**
CCA-2800	7/16-20 UNF	F391-72	SA-72	05-04888	**$32.80**
CCA-2900	1/2-20 UNF	F391-82	SA-82	05-06490	**$32.80**
CCA-7500	3/4-16 UNF	--	--	05-04057	**$161.75**
CCA-7500-1	3/4-16 NF3	--	--	05-03653	**$130.80**
CCA-7500-2	3/4-16 UNF	--	--	05-04058	**$143.75**
CCB-37500	3/4-16 NF3	--	--	05-12640	**$246.95**
CCB-36350-1	3/4-16 NF3	--	--	05-04059	**$132.75**
CCB-36450-5	3/4-16 NF3	--	--	05-03658	**$141.80**

NON-LOCKING FUEL VALVES

05-15397

Model Number	Thread Size	Auto Valve PN	Saf-Air PN	Part No.	Price
CCA-1200	7/16" 20 UNF	1.220"	05-15397	$62.85	**$32.80**
CCA-1800	1/8" NPT	.987"	05-11156	$13.95	**$32.80**
CCA-1900	1/4" NPT	.955"	05-11157	$14.50	**$32.80**
CCA-2000	3/8" 24 UNF	.987"	05-11158	$14.50	**$32.80**
CCA-2100	7/16" 20 UNF	.987"	05-11159	$14.50	**$32.80**

SELF-LOCKING OIL DRAIN VALVES

05-15398

Model Number	Application	Thread Size	Installed Length	Part No.	Price
CCB-33000	Continental	5/8" 18 UNF	2.100"	05-15398	**$248.95**
CCB-36000	Lycoming	½" NPT	2.040"	05-15399	**$248.95**

CURTIS QUICK DRAIN SECURITY SYSTEM

This Curtis Quick Drain Security System is designed to accept a locking device that will prevent tampering and the theft of fuel. FAA TXO-C76 approved. The dash number on the model numbers below indicates the number of valves and locks included. System Contains: CCA-39650 Quick Drain Valves, CCA-39660 Quick Drain Locks, CCA-39670 Master Keys, and CCA-39680 Sample Cup Opener.

Part Number	Contains	Part No.	Price
CCA-39700-2	2 Tank Locking System	05-01239	**$63.75**
CCA-39700-4	4 Tank Locking System	05-01255	**$115.75**
CCA-39700-6	6 Tank Locking System	05-01256	**$137.95**

CURTIS SUPERIOR REMOVAL TOOLS

Helps with the installation and removal of Curtis flush mounted valves without damage. Eliminates the problem of damage as well as valve torque.

Name	Works with valve:	Part No.	Price
CST-716	CAA-1250, 1550, 4850, 7450, 9950, 36150, CCB-36750	12-02244	**$82.75**
CST-78	CCA-1400, 1700, 39550, 39560, CCB-3700	12-02245	**$85.75**
CST-916	CCA-1300, 1600, 3600, 4800, 4900, 5900, 39000	12-02246	**$79.80**
CST-1116	CCA-1350, 1650, 2440, 2450, 2460, 4320, 4950, 5400, 5800-1	12-02090	**$79.80**
CST-36450	CCB-36450, CCB-36450-5	12-02280	**$104.75**

FLUSH VALVES ADAPTER PLATE ASSEMBLY

05-04546

Overall Dia. 2.75 Depth: 640,000-650,000 (From mounting surface to bottom hole dia: 1-1/2") Flush Valve Adapter Plate Away PLT-275V.....P/N 05-04545 .....**$184.75**

05-04545

Flush Valve Adapter Plate Assembly.With 6 holes PLT-275AV .....P/N 05-04546 .....**$206.95**

Jabiru **Rotax**

05-03540

08-06258

08-06257

OIL DRAIN VALVE ASSEMBLIES

Curtis Oil Drain Valves for Jabiru and Rotax			
Description	**Application**	**Part No.**	**Prices**
Curtis Oil Drain Valve - 1/2" - 20 Brass Lockwire Drilled Action-Spiral, Lock Open	Jabiru 2200, 3300	05-03698	**$58.99**
Curtis Oil Drain Valve - 12mm - 1.75mm Brass, Length 1.45" Lock Wire Drilled Action-Spiral, Lock Open	Rotax 912F2, 912F3, 912F4, 914F2, 914F3, 914F4	05-03697	**$60.75**
Curtis 90 Degree Adapter for Jabiru and Rotax			
Jabiru 90 Degree Adapter CCA-2480	Jabiru 2200, 3300	08-06258	**$92.75**
Rotax 90 Degree Adapter Thread Size: 12mm-1.75mm, Internal/External Brass CCA-2470	Rotax 912F2,912F3, 912F4, 914F2, 914F3,914F4	08-06257	**$87.99**
Oil Drain Valve Adapter Assembly			
Oil Drain Valve Adapter Assembly	Rotax	05-03539	**$144.75**
Oil Drain Valve Adapter Assembly	Jabiru	05-03540	**$144.75**

QUICK DRAIN HOSES

A simple push and twist action locks the CCB-39600 Series Quick Drain Hose in place and opens the drain. Fuel / oil flows through 5' of high grade vinyl tubing preventing spillage

Model No.	Connector Color	Used with Valves	Part No.	Price
CCB-39600-1	Black	CCA-1400, CCA-1700, CCA-39550	05-00138	**$34.50**
CCB-39600-2	Blue	CCA-1350, CCA-1650, CCA-4950	05-00139	**$36.60**
CCB-39600-3	Yellow	CCA-1300, CCA-1600, CCA-3400, CCA-3600, CCA-4800, CCA-4900, CCA-39000	05-00141	**$36.60**
CCB-39600-4	Silver	CCA-4350, CCA-7250, CCA-36400, CCA-36650	05-00142	**$29.95**
CCB-39600-5	Brass	CCA-1250, CCA-1550, CCA-4300, CCA-4850, CCA-9950, CCB-36750	05-00143	**$36.60**

CURTIS H4 SERIES PUSH TYPE FUEL VALVES

Curtis Superior Valves are designed for installation in a standard NPT port for NPT threaded valves or an AND-10050 stlye port for UNF threaded valves.

Model No.	Thread Size	Material	Certification	Installed Length	Part No.	Price
CCA-110-H4	1/8 NPT	Brass	FAA PMA	1.53	05-26755	**$31.50**
CCA-110SS	1/8 NPT	Stainless Steel	TSO-C76b	.520	05-26759	**$39.50**
CCA-160-H4	1/4 NPT	Brass	Experimental	1.49	05-26756	**$31.50**
CCA-160SS	1/4 NPT	Stainless Steel	TSO-C76b	.605	05-26760	**$39.50**
CCA-170-H4	7/16-20 UNF-3A	Brass	Experimental	1.35	05-26757	**$27.60**
CCA-170SS	7/16-20 UNF	Stainless Steel	TSO-C76b	.460	05-26761	**$39.50**
CCA-180-H4	3/8-24 UNF-3A	Brass	Experimental	1.40	05-26758	**$31.50**
CCA-180SS	3/8-24 UNF	Stainless Steel	TSO-C76b	.470	05-26762	**$34.50**

CURTIS REPLACEMENT O-RINGS FOR OIL DRAIN VALVES

Size 108.....P/N 05-22968 .....**$3.35**
Size 109.....P/N 05-22969 .....**$3.35**

WWW.AIRCRAFTSPRUCE.CA

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

SAF-AIR FUEL DRAIN VALVES

SAF-AIR DRAIN VALVES

SAF-AIR push type fuel drain valves are close tolerance valves of simple design. These valves provide the most trouble free operation of any other line of valves in the industry. SAF-AIR valves are manufactured with an o-ring placed on the stem to seal against a flat seat on the body. This design eliminates an area where dirt can gather, thus putting an end to the main cause of fuel drain valve drip. FAA & PMA APPROVED.

CAV-110H-4 CAV-160H-4 CAV-170H-4 CAV-180H-4
CAV-110 CAV-160 CAV-170 CAV-180

MODEL CAV-110 1/8" NPT - For Cessna 310 tip tanks; Mooney Mark 20 and 20A; all Ercoupe models; Bellanca, Taylorcraft model B; Stinson 108, 108-1, 108-2, 108-3; Voyager model 10 and 10A; Navion; Waco VK series and UPF; and Sea Bee. Fits all standard gascolators. **MODEL CAV-160 1/4" NPT -** For Piper models J-3, J-4, PA-11, -12, -14, -25, -16, -17, -18, -20, -22, -23, and -15 Tri-Pacer; Apache; Champion; Aeronca; Cessna T-50 and earlier 120 and 140 models; and Beechcraft AT-11 and C-18S. **MODEL CAV-170 7/16-20 NF-3 -** For all Cessna late 140A models, 150, 170, 170A, 170B, 172 and 175. **MODEL CAV-180 3/8-24 NF-3 -** For Cessna 180, 182, 185, 190, 195, 205, 210, 310, 310A, 310B, 310C and 336. **CAV-100H-4, CAV-160H-4, CAV-170H-4, CAV-180H-4 -** All four models come with 1/4" hose end.

Note: All aircraft applications are for general reference only. Verify correct valve for your aircraft before ordering.

Part No.	Thread	Price	Part No.	Thread	Price
CAV-110	1/8" NPT	**$22.50**	CAV-170	7/16-20 NF	**$24.65**
CAV-110H4	1/8" NPT	**$30.50**	CAV-170H-4	7/16-20 NF	**$31.55**
CAV-160	1/4" NPT	**$22.80**	CAV-180	3/8-24 NF	**$24.65**
CAV-160H-4	1/4" NPT	**$29.85**	CAV-180H-4	3/8-24 NF	**$31.50**

Replacement Seals **Price Each**
MS29513-006 Tip (all models) **$0.83**
MS29513-011 Seat (CAV-180) **$0.65**
MS29513-012 Seat (CAV-170) **$1.11**

4350-6L F75 SA-60S P3750 SA5817-4C C500

SAF-AIR SPECIALTY FUEL DRAIN VALVES

The F75 is used on wing tip tanks or any application where a 3/4"-16 flush mounted fuel drain valve is needed. This aluminum valve is simple and clean to operate, using any standard sampling tube. Just push up on the center of the valve to sample fuel. Our new design allows all the fuel to enter the tube without leakage. This valve is designed for use on Cessna 310 through 441 model airplanes. • The C500 is used on the bladder style wing tanks with a 1/2" diameter nozzle. • The P3750 has a 3/8" NPT thread and is designed for use on those applications. Both valves provide push-to-test or push-and twist features for locking the valve open. Material is 360 brass. • The SA5817-4C is used with a 3/4"-16 bulkhead fitting to mount the valve flush with the outside skin of the plane. A hose is attached to the valve with a 7/16"-20 fitting at the low point of the fuel system.Material is anodized aluminum. • The SA-60S valve is the same as the CAV-160 except it is constructed of 304 stainless steel. Valve can be used in highly corrosive applications such as salt water. • 4350-6L has a 7/16"-20 thread and a long stem that can be cut to length for your application. Material is anodized aluminum.

Part No.	Thread	Price	Part No.	Thread	Price
C500	1/2" Tube	**$36.75**	SA-60S	1/4" NPT	**$37.50**
P3750	3/8" NPT	**$32.60**	4350-6L	7/16"-20	**$101.80**
F75	3/4-16	**$122.75**	SA5817-4C	3/4"-16	**$133.75**

PIPER FUEL DRAIN KIT

Developed in compliance with Airworthiness Directive 85-06-04 for Piper aircraft. Fits most popular Piper aircraft, including J-3, 4, 5; PA-12, 14, 15, 16, 17, 18, 20 & 22. Fuselage kit includes a bushing, elbow, elastic grommet, hose, clamp, drain valve, warning sign & instructions (AD 85- 06-04). Wing kit incl. drain valve, warning sign & instructions (AD85-06-04).

Fuselage Tank Fuel Drain Kit ..... P/N 05-01892 ..... **$81.75**
Wing Tank Fuel Drain Kit ..... P/N 05-01893 ..... **$44.55**
Wing Tank Fuel Drain Kit/Flush Drain ..... P/N 05-01894 ..... **$44.55**

F391 FLUSH DRAIN VALVE

Valve mounts in the sump, the same as original plug, with no projection. Can't be knocked off or opened by particles thrown from propellers. Opens only when operated with sampler cup, rod or wire. Clear cup permits inspection for water or contaminants. FAA approved.

Part No.	Thread Size	Application	Price
F-391-14	1/4" NPT	Aeronca, Beech AT-11, D-18S, Piper PA-11, 12, 18, 20, 22, Apache, champion, Howard	**$53.75**
F-391-18	1/8" NPT	Stinson, Waco VK, UPF, Seabee, Bellanca, T-Craft "B", Navion	**$51.75**
F-391-32	3/8-24	Cessna 180, 182, 195	**$53.75**
F-391-72	7/16-20	Cessna 140, 150, 170, 172, 175	**$50.75**
F-391-82	1/2-20	Cessna Cardinal, 210	**$50.75**

Sampler Cup - Fits all F-391 Valves ..... P/N 05-17300 ..... **$9.50**

SAF-AIR FLUSH-MOUNTED DRAIN VALVES

SA14 SA18 SA32 SA72 SA82 SA187 SA53S

SAF-AIR designed its line of flush mounted fuel drain valves to be an exact replacement for the Auto Valve F391 line of flush fuel drain valves. Unlike the Auto Valve, SAF AIR valves can be rebuilt. These valves offer a dependable, low-cost solution when a flush mount is needed. **FAA & TSO-C76 approved.**

P/N	Size	Equiv.	Price	P/N	Size	Equiv.	Price
SA14	1/4 NPT	F391-14	**$33.85**	SA72	7/16-20	F391-72	**$33.85**
SA18	1/8 NPT	F391-18	**$33.85**	SA82	1/2-20	F391-82	**$33.85**
SA32	3/8-24	F391-32	**$33.85**	SA187	1/8 NPT	F391-187	**$33.85**

LOCK OPEN SAF-AIR DRAIN VALVES

Similar to the drain valves above with including the capability of locking in the open position making pre-flight check for contamination and water in the fuel system very easy. Models 1250 & 1250H are popular choices to install on gascolators.

FAA & TSO-C76 APPROVED.

1250 1250H 2500 2500H 3750 3750H 4375 4375H

Part No.	Size	Price Ea.	Part No.	Size	Price Ea.
1250	1/8 NPT	**$27.50**	1250H	1/8 NPT*	**$33.85**
2500	1/4 NPT	**$27.50**	2500H	1/4 NPT*	**$33.85**
3750	3/8-24	**$27.55**	3750H	3/8-24*	**$34.50**
4375	7/16-20	**$27.50**	4375H	7/16-20*	**$32.75**

***These valves come with 1/4" hose adapter**

FUEL DRAIN VALVE KITS FOR CESSNA, PIPER, AND BEECHCRAFT

These high quality fuel drain valve kits are FAA-PMA approved for a wide range of Cessna, Piper, and Beechcraft aircraft. These drain valves prevent drain nipple slippage, require no O-rings, feature corrosion free construction, and use the industry standard 1/8" pipe thread valve. **Features**: • The valve can be rebuilt • Fuel resistant o-ring - Fluorosilicone • Push to test against the wing surface **Specifications**: • Material: Valve 360 Brass, Housing Stainless • Finish: Cadmium Plate • Temperature: -100° to +350°F (-73° to +177C) • O-Rings: M25988-005 • Pressure: 60 PSI max.

Kit for Cessna ..... P/N 05-03566 ..... **$244.95**
Kit for Beechcraft ..... P/N 05-03567 ..... **$216.95**
Kit for Piper ..... P/N 05-03568 ..... **$190.75**

AP

GASCOLATORS – FUEL TESTERS

ACS GASCOLATOR

All-metal gascolator with S.S. screen, 1-7/8" dia. anodized aluminum steel bowl w/quick drain. Top is CNC machined from 6061-T6 aluminum. Top casting has 1/4" pipe ports for 3/8" fuel line and one 1/8" pipe port for primer fitting. Wt: 8 oz. Made in the U.S.A. .....P/N 10580 .....**$121.75**

Replacement Bowl(Aluminum) .....P/N 05-11982 .....**$32.85**
Replacement Gaskets - For auto fuel 3/32" thick x 2-1/8" O.D. 10536-1 .....P/N 06-00441 .....**$10.99**
Replacement Screens -
120 Microns Stainless Steel.....P/N 10543-1 .....**$7.60**
74 Microns Stainless Steel.....P/N 05-03436 .....**$5.35**

ACS GASCOLATOR INSTALLATION BRACKET

Versatile bracket of .016 stainless steel accommodates gascolators with either metal or glass bowl. When mounted as illustrated, inlet and outlet connections are on sides. When bracket is inverted, one port of gascolator faces firewall for direct routing of fuel line through firewall. Fits gascolators sold after May 1, 1989.
Made in the U.S.A. .....P/N 10371 .....**$33.85**

ACS HIGH PRESSURE GASCOLATOR

New ACS high pressure gascolator. Lighter weight and simpler design than the ACS "classic" gascolator. Bailwire and attaching hardware have been eliminated. Threaded collar secures bowl to top. Tested to 50lbs. Bowl is cadmium plated and top and collar are anodized for corrosion protection. Made in the U.S.A.
High Pressure Gascolator .....P/N 05-04248 .....**$163.90**
Replacement Gasket 10536-1.....P/N 06-00441 .....**$10.99**
Replacement 120 Micron Screen 10543-1 ..P/N 10543-1 .....**$7.60**
Replacement 74 Micron Screen .....P/N 05-03436 .....**$5.35**

FAA-APPROVED GASCOLATORS

CNC-machined out of 6061 aluminum for longer use. Anodized "O" ring seals for improved sealing capabilities, a bayonet tab locked bowl system. Direct replacement for factory parts. FAA-approved for many Piper, American Champion, Husky, Maule, Taylorcraft, Dynac and Cessna aircraft. Fits in existing Piper mounting brackets. Check the Aircraft Spruce website for aircraft cross-reference list or contact us for gascolator approved for your aircraft.

SA3-00

SA3-00B

SA3-10

SA3-10A

Model	Size	Part No.	Price
SA3-00	1/4 NPT - 3/8" Line - 3 oz.	05-00840	**$435.00**
SA3-00B*	1/4 NPT - 3/8" Line - 3 oz.	05-02674	**$435.00**
SA3-10	3/8 NPT - 1/2" Line - 4 oz.	05-02675	**$496.00**
SA3-10A*	3/8 NPT - 1/2" Line - 4 oz.	05-00894	**$496.00**

8130 Forms are not available for these gascolators.

GASCOLATORS FOR OUTSIDE THE U.S.

Model	Size	Part No.	Price
SA3-00	1/4 NPT - 3/8" Line - 3 oz.	05-12468	**$464.00**
SA3-00B*	1/4 NPT - 3/8" Line - 3 oz.	05-12470	**$441.00**
SA3-10	3/8 NPT - 1/2" Line - 4 oz.	05-12471	**$499.00**
SA3-10A*	3/8 NPT - 1/2" Line - 4 oz.	05-12469	**$503.00**

*** Note: This unit does not require a bracket for installation.**

PIPER GASCOLATOR GASKET

For Product Application see Piper Parts Manual for your Aircraft.
2.125 in. X 2.125 in. X 0.125 in.....P/N 462-049 .....**$7.50**

GASCOLATOR GASKETS

Gascolator Gasket, Manufactured from fuel resistant "Buna Rubber" material.

Description	Part No.	Price
2-1/4" OD. x 1-3/4" ID x 1/16" Buna and Cork material	05-11188	**$15.90**
2" OD. x 1-3/8" ID x 1/8" Buna Rubber material	05-11190	**$3.80**
2-1/8" OD. x 1-1/2" ID x 1/8" Buna Rubber material	05-11189	**$14.50**
2-1/4" OD. x 1-3/8" ID x 1/8" Buna Rubber material	05-11187	**$3.35**
2-1/4" OD. x 1-3/8" ID x 3/16" Buna Rubber material	05-11191	**$15.90**
2-1/8" OD. x 1-1/2" ID x 3/32" White Nitrile Rubber material	05-22048	**$2.70**

USHER GASCOLATOR 6

Can be used on fuel injection systems up to 50 psi .Anodized inside and out to prevent corrosion. Has two 1/4" NPT ports for 3/8" fuel line, a 1/8" primer port, and a 1/8" NPT drain valve port. Mounting bracket not included. Now comes ready to mount to firewall.
Gascolator .....P/N 05-15140 .....**$260.95**
Replacement Screen.....P/N 05-25972 .....**$6.50**
Replacement O-ring .....P/N 05-12242 .....**$4.65**

GATS JAR FUEL SAMPLER

The incredible GATS Jar allows a pilot to pour the fuel used in the preflight check back into the fuel tank without fear of water contamination. Also detects jet fuel in the event of inadvertent fueling of your aircraft with jet fuel.
12 oz. .....P/N 05-21250 .....**$24.50**
16 oz. .....P/N 05-04237 .....**$24.50**
Replacement actuator.....P/N 17-00043 .....**$8.50**

GATS JAR BUNDLE PACKS

6 Pack .... P/N 17-00284 ....**$132.75** 12 Pack ....P/N 17-00285.....**$264.95**
12 Pack .. P/N 17-00286 .**$1,063.00** 100 Pack ..P/N 17-00287..**$2,191.00**

CURTIS FUEL SAMPLER CUP

This fuel sampler cup is designed for use with many popular fuel drain valves including the F391 drain valves used on many of today's productions aircraft. Wide bowl allows fuel sampling without fuel dripping onto the hands.
P/N 05-17300 .....**$9.50**

ASA AIRCRAFT FUEL TESTING CUP

Protect yourself from fuel contamination by visually checking the fuel for water and debris. Clear cup with a reinforced steel pin that works with most aircraft. Measures 2-1/2" high x 1-3/4" diameter. Lifetime warranty.
P/N 13-02353 .....**$11.80**

FUEL TESTERS

The unique snap-on probe fits all quick-drain valves, stores compactly, and reduces spillage, loss, and probe breakage. Also includes a chrome-plated screwdriver blade with both a Phillips and a slotted head.
4" .....P/N 13-18463 .....**$9.50**
6" .....P/N 13-18464 .....**$10.50**

GASOHOL TESTER

This compact fuel tester / double tip screwdriver combo measures the presence and percentage of alcohol in gasoline, and tightens errant screws .....P/N 05-03439 .....**$9.60**

GOCHECK PREFLIGHT 6 IN 1 MULTI-TOOL

6-in-1 Tool. With space at a premium in most flight bags, this device combines multiple preflight tools in one compact unit. fuel tester with strainer, stall horn tester, dipstick wiper, red/v light, Phillips/flathead screwdriver and checklist reminder car
P/N 05-15254 .....**$68.95**

MULTISUMP AVIATION FUEL TESTER

MultiSump+™ allows the pilot to sample and individually inspect fuel from each sump while a quick dump feature transfers fuel to the lower catch can thus eliminating emptying the tester after each sump.
Multisump with Fuel Strainer.....P/N 05-04653 .....**$39.99**
Multisump without Fuel Strainer....P/N 05-15052 .....**$31.70**
Fuel Strainer Only .....P/N 05-08097 .....**$12.50**

JET SUMP ™ FOR BUSINESS JETS

Provides clean sumping and inspection for Gulfstream® and other business jets. Made in USA
Features: • Meets 32oz sampling requirement for Gulfstream® jets • Compact storage with vapor containment cap • 4" extended neck reaches recessed drain valves • Allows for quick visual assessment of fuel quality • Affordable price point .....P/N 05-22946 .....**$64.80**

JEL TESTER CONTAINER

airtight container for clean, odor free storage of a fuel e used to store other items like reading glasses that ct from breaking. 9"x2.5"x1.75".
.....P/N 13-12408 .....**$27.55**

AIN VALVE FOR PA-15/PA-17

Model	Description	Part No.	Price
22179-000	Fuel Drain Valve 3/8" NPT	05-21969	**$30.50**
189-543	Fuel Drain Plastic Tubing	05-21970	**$1.32**

CESSNA DRAIN VALVES

S2106-4 .....P/N 06-03056 .....**$54.90**
S2020-2 .....P/N 06-00989 .....**$64.75**

PHENIX SELECT-FLO FUEL FILTERS

100 Micron Element		
Select-flo Filter Dash 8 In To Dash 8 Out Blk / 100 Micron Element	04-03672	**$115.75**
Select-flo Filter Dash 6 In To Dash 6 Out Blk / 100 Micron Element	04-03673	**$121.75**

NIX SELECT-FLO FILTER BRACKETS

lter Brackets: All filter elements in stainless be cleaned and used indefinitely. Proudly

Description	Part No.	Price
Select-flo Filter Mounting Bracket Type A	04-03666	**$44.50**
Select-flo Filter Mounting Bracket Type B	04-03667	**$43.50**
Select-flo Filter Mounting Bracket Tube Mount 1-1/2"	04-03668	**$44.85**
Select-flo Filter Mounting Bracket Tube Mount 1-5/8"	04-03669	**$45.50**
Select-flo Filter Mounting Bracket Tube Mount 1-3/4"	04-03670	**$46.50**

KING AIR FUEL FILTER DRAIN VALVE

Improved, repairable valve for thousands less than Beech!
- Improved seal design provides a long life reliable valve
- Teflon lined control conduit and stainless steel cable
- Reliable design - proven to over 10,000 cycles
- Latest Viton fuel-proof seals
- Anodized for better corrosion resistance
- Unheard of 10 Year Limited Warranty!

Consists of two components: a valve housing and a replaceable valve control plunger assembly. .....P/N 05-13139 .....**$3,157.00**

MICRON 10 FUEL FILTER

Length: 4.25"; Diameter: 2.0"; Flow rate: 15.3 gpm; Weight: 5 oz.; Fitting Size: use (-6) Phenix Fittings - see "Accessories" tab; Filter medium: 1.375" dia. 304 pleated SST disk; Filter Efficiency: 10 Micron; Operating Pressure: 8,000 PSIG; Drop in pressure: 1.0% Fitting Size: AN6. This filter is washable and reusable ..... P/N 05-01699 .**$184.75**
..... P/N 05-21822 ...**$47.65**

AN SCREEN DISC FUEL FILTERS

re in-line gas filters are easy to clean by simply

.....P/N 15-05456 .....**$54.80**
.....P/N 15-05457 .....**$36.60**

FILTERS FOR ELECTRONIC FUEL INJECTION PUMPS

el injection, you should run a coarse pre-filter the fuel pump, and a fine post filter (FF-1, 10 np. If you are running mechanical fuel injection, -2 pre-filter.

) micron stainless mesh filter that will keep large debris from entering and damaging your fuel pump. The FF-1 post-filter is a 10 micron, high surface area, high pressure filter that will keep fine particulates out of your electronic fuel injectors, if so equipped.

Mechanical Injection Systems Require Only a Pre Filter

Specifications: FF-1 - Includes one 10 micron post pump filter with AN-6 fittings and mounting clamp • FF-2 - Includes one 90 micron screen pre pump filter with AN-6 fittings and mounting clamp.

Post Filter .....P/N 07-19989 .....**$75.75**
Pre Filter .....P/N 07-19990 .....**$71.75**

MULTISUMP AVIATION FUEL STRAINER

g Fuel Tester to remove contaminants and water uring pour back.....P/N 05-08097 .....**$12.50**

ACS FREE FLOW ONE-WAY CHECK VALVE

Prevents return fuel flow during normal operation but provides by-pass fuel feed in an emergency if the fuel pump fails. Wt. 1 oz., 2-7/8" long. Use with tube fittings for 3/8" dia. fuel line. Anodized for corrosion resistance.
P/N 10630 .....**$35.70**

INLINE FUEL FILTER

In-line, high-capacity, translucent filter with screen. Has standard 1/4" barb inlet and outlet tubes.
P/N 05-14958 .....**$9.50**

FUEL FILTER

In-tank type. Brass construction with fine-mesh screen. Has standard 1/4" barb inlet and outlet tubes
P/N 05-01031 .....**$13.60**

3/8 INCH PLASTIC FILTER

Plastic in-line fuel with 3/8" inlet & outlet - metal version is 33033 with hoses and camps. Style: Fuel Filter. Height: 3.543. Outer Diameter: 1.826. Nominal Micron Rating: 30.....P/N 05-04701 .....**$31.50**

FUEL FILTERS

For homebuilts. Used on VariEze and various gyrocopters. Rated to 10 PSI. Not recommended for fuel injected systems.

Description	Part No.	Price
1/4" Fuel Filter (Metal)	05-33031	**$16.50**
3/8" Fuel Filter (Plastic)	05-04701	**$31.50**
1/4" Fuel Filter (Plastic)	05-33001	**$18.70**
Universal Fuel Filter Inline 1/4", 5/16", 3/8"	15-05826	**$27.50**

ANDAIR FS20 SERIES FUEL SELECTOR EXTENSION KITS

Steps	Valve Model/Length	Part No.	Price
Extension Kits	FS20-1	05-15318	**$188.75**
--	FS20-2	05-15319	**$188.75**
--	FS20-3	05-15320	**$188.75**
--	FS20-4	05-15321	**$188.75**
--	FS20-5	05-15322	**$188.75**
--	FS20-7	05-15323	**$206.95**
--	FS20-8	05-15324	**$205.95**
Extension Tubes	6"	05-15325	**$41.50**
--	12"	05-15326	**$79.75**
--	18"	05-15327	**$111.75**
--	24"	05-15328	**$136.75**
--	30"	05-15329	**$169.75**
--	36"	05-15330	**$203.95**

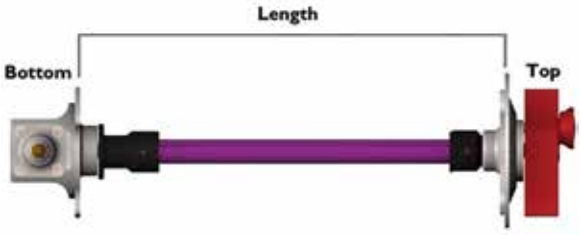
MOONEY FUEL SELECTOR ARM EXTENDER

Mooney Fuel Selector Arm Extender. Extend the arm by approximately 10 inches and reach the selector valve again ....
P/N 05-15255 .....**$34.50**

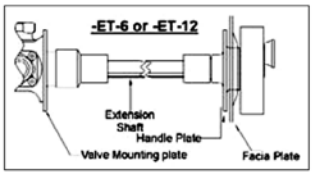
AP

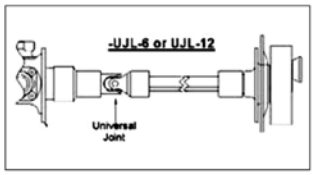
EXTENSION FUEL VALVES - GASCOLATORS

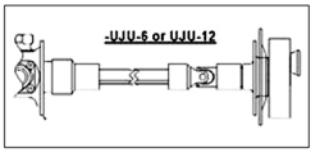
ANDAIR EXTENSION FUEL SELECTORS

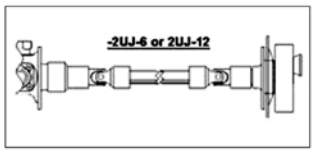


For use with any Andair valve. The kit includes everything needed to operate the valve remotely by way of a specially extruded tube. There is no riveting involved, just cut the tube down to length and fit together. To maintain the firm detent at each tank selection, there is a detent cap on the top of the valve. The special tube then fits into this. Then, so as to maintain the safety feature, where the valve cannot be inadvertently switched off, the button has been moved to the upper section. Like the standard valves, the button must be raised to switch the fuel of. The tube is available 6" or 12" long and 4 extension options are available. The extension must be ordered with the valve. (i.e. an extension cannot be retro fitted to a previously purchased valve).









Option	Size (In.)	Price	Option	Size (In.)	Price
ET	6	Call or Email for price and availability	ET	12	Call or Email for price and availability
1JL	6		1JL	12	
2JU	6		2JU	12	

E	Valve Part No.	ET	6	Length of extension tube:
		1JU	12	6 = 6" long.
		2UJ		12 = 12" long.

ET: with one universal joint on lower part of valve
UJL: with one universal joint on the upper section of the valve
UJU: with 2 universal joints.

Example:
E-FS25f5-M-ET-6 = (6"long, 1/2"Left, Main, Right, Off, Straight Ext. Valve)
E-FS20-20-D2-6M-2UJ-12 = (12"long, 3/8"duplex fuel selector extension with 2 UJs and 12" tube).

SPECIAL ENGRAVING - Andair can offer special engraving for all of the available valves. Please contact the Aircraft Spruce technical department for more information. Here are some examples:

GASCOLATOR FIREWALL FITTING

Includes mounting flange and backing plate. Mount your gascolator solidly on the firewall with this special bulkhead fitting. Simply drill a 5/8" hole through the firewall and a backing plate on the cabin side and rivet the 1-1/2" x 1/8" flange to the firewall. Connect the incoming fuel line to the AN6 male tube fitting on the cabin side. Screw the gascolator onto the 1/4" male pipe (on the engine side). Machined from mild steel (303 stainless steel) .....P/N 05-00907 ..... **$30.50**

ANDAIR GASCOLATORS

Andair make Gascolators for both 3/8" and 1/2" lines. Both types have a screw locking ring that prevents the bowl from coming off, and a facility for this to be wirelocked. The bowl is internally sealed with an Viton (R) O-ring. A PTFE coated 70 micron Stainless Steel mesh is used as the filter screen. The PTFE coating helps prevent water from passing, by maintaining it as a droplet formation. A large filter area is present and wide passages have been incorporated so that the pressure loss through the Gascolators is kept to an absolute minimum. There is an 1/8 NPT hole on the bottom of the bowl so it can be drained and also one on the top of the body. This one can be used as a pressure tapping or a filtered supply to the primer pump. A selection of fittings can also be used with the GAS375 and the GAS500.

GAS375M with -6 Male Fittings.....P/N 05-29551 ..... **$387.00**
GAS375F w/ 1/4" NPT Female Fittings.....P/N 05-29552 ..... **$370.00**
GAS375B w/ Banjo Fittings.....P/N 05-29553 ..... **$388.00**
GAS500F - 3/8" NPT Female Fittings.....P/N 05-00129 ..... **$633.00**
GAS500M -has -8 Male Flare Fittings.....P/N 05-00136 ..... **$735.00**

NOTE: ADD -1 TO PART UMBER FOR REVERSE FOLLOW GASCOLATORS. EXAMPLE: 05-29551-1

Replacement o-ring for GAS375.....P/N 05-00704 ..... **$5.50**
Replacement o-ring for GAS500.....P/N 05-00706 ..... **$7.95**
Replacement screen for GAS375.....P/N 05-00707 ..... **$86.75**
Replacement screen for GAS500.....P/N 05-00708 ..... **$141.80**
Stainless Steel Drain Valve.....P/N 05-00709 ..... **$57.80**

ANDAIR CHECK VALVE

Built from aircraft grade Aluminum and anodized for corrosion protection this light-weight and compact unit is excellent. The check valve is ideal for tank vents and high pressure fuel pump bypass lines. Its extremely light weight internal shuttle operates with the slightest pressure yet the internal O-ring seals allow the unit to be used up to 50 PSI. Other qualities include break out pressure less than 1 PSI, great flow characteristics around shuttle, and bleed allows shuttle to weep off pressure in the event of a blocked line. Features AN-6 (3/8") fitting on bottom. Valve measures 5/16" dia. x 2.75" long.

Model No.	Bleed	End Fittings	Part No.	Price Ea.
CK250	No	7/16-20	05-00713	**$123.90**
CK250-B	Yes	7/16-20	05-00714	**$123.90**
CK375	No	9/16-18	05-00716	**$123.90**
CK375-B	Yes	9/16-18	05-29555	**$123.90**
CK250-H	No	1/4" hose	05-00717	**$122.75**
CK250-H-B	Yes	1/4" hose	05-00718	**$123.90**
CK375-H	No	3/8" hose	05-00719	**$122.75**
CK375-H-B	Yes	3/8" hose	05-00721	**$122.75**
CK375-M-BRP	--	--	05-14969	**$179.75**

PUROLATOR AN6235 SERIES LINE FILTER ELEMENTS

- MIL-F-5504 Qualified
- Qualified for use in MS28720 and AN6234 filter assemblies.
- Operating Temperatures: -65F TO + 275F
- Element Collapse:150PSID Minimum.
- Filtration:10 Micrometers.
- Hydraulic O-ring.
- Media: micropleat(c) elements (resin impregnated cellulose)
- Bubble Test 100%

AN No.	Dimensions	Diameter	Part No.	Price
AN6235-1A	1.875"	0.859"	08-07076	**$20.50**
AN6235-2A	4-11/16"	1-1/8"	08-00912	**$21.50**
AN6235-3A	3.438"	0.891"	08-07104	**$27.50**
AN6235-4A	4.5"	1.78"	AN6235-4A	**$19.50**

ANDAIR POSITIVE STOP FUEL VALVES

Andair Ltd. of England produce these superb Safety Fuel Selectors. Precision built from aircraft grade materials, with PTFE seals packed against a highly polished ball giving a very smooth action. Designed by an RV builder the Andair valve features a positive stop for the off position. A spring loaded button on the lever must be raised before the lever can be moved to the off position. This eliminates the possibility of turning the fuel off in flight, which is an inherent risk with some other designs. The lever has internal stops and detents on the left and right positions. The FS20 range has been designed for 3/8" fuel lines and the FS25 Range is for use with 1/2" lines. New to the range is the FS20-8 5-way selector valve.

FS20X1-F or FS25x1-F Model 1

FS20X2-F or FS25x2-F Model 2

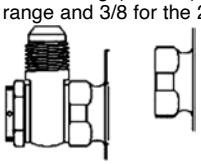
FS20X3-F or FS25x3-F Model 3

FS20X4-F or FS25x4-F Model 4

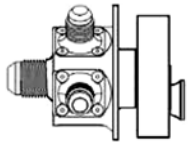
FS20X5-F or FS25x5-F Model 5

FS20x8-F Model 8

SIDE FITTINGS - The side fittings can either be -M (Male 9/16-18 for the 20 range or 3/4-16 for the 25 range) or -F (Female pipe 1/4 for the 20 range and 3/8 for the 25 range)



Female Fitting



Side view, FS20x8-M

Banjo Fitting

LOWER FITTINGS ON MODELS 3, 4, 5 & 8

The Andair Range of fuel selectors is now available with choice of lower fittings for models 3,4,5 and 8. This fitting can either be -M (Male 9/16-18 for the 20 range or 3/4-16 for the 25 range) or -F (Female pipe 1/4 for the 20 range and 3/8 for the 25 rang e) or a Banjo fitting. The banjo fitting has a 360° adjustable Male 9/16-18 end for the 20 range or 3/4-16 for the 25 range.

Male Fitting

Lower Fittings	Model	Side Fitting	Price Ea.
--	1, 2	Male or Female	CALL
Male or Female	3, 4, 5 8		CALL
Banjo	3, 4, 5 8		CALL

Lower Fittings	Model	Side Fitting	Price Ea.
--	1, 2	Male or Female	CALL
Male or Female	3, 4, 5 8		CALL
Banjo	3, 4, 5 8		CALL

ANDAIR UNIVERSAL JOINT

These Universal joints work in conjunction with our specially extruded extension rod to allow mounting of fuel valves at angle to the control level. 30° maximum angle .....P/N 05-13282 .....**$137.75**

FS20-20-D2 DUPLEX VALVES

Used to switch the fuel in an appliction where there is a fuel injected engine that needs flow return. It allows you to pipe surplus fuel to the same tank from which it was drawn. This avoids the worry of overfilling the return tank or having an overly complicated fuel system. Engines that can benefit from this valve are Surburu, Continental, Rotax, and Diesel engines. The FS20-20-D2 has two 3/8" sections where as the new FS25-20-D2 has one 1/2" feed section and on 3/8" return section. The valves can be supplied with either male or female fittings.

FS25-20-D2 DUPLEX VALVES - New to the range is the FS25-20-D2 which has a 1/2" feed ports and 3/8" return ports, for use in larger injected engines.

Model No.	Part No.	Description	Thread	Ports	Price
FS20-20-D2-6M	05-06926	3/8" Feed & Return	1/4" Pipe	Male	**$834.00**
FS20-20-D2-6F	05-06927	3/8" Feed & Return	9/16-18a	Female	**$862.00**
FS25-20-D2-6F	05-29562	1/2" Feed, 3/8" Return	1/4,3/8"pipe	Female	**$918.00**
FS25-20-D2-6M	05-29563	1/2" Feed, 3/8" Return	9/16-18, 3/4-16	Male	**$893.00**

FS22D2 DUPLEX VALVE

This new duplex valve from Andair has been designed for the use with low flow rate fuel and vapor return systems. An example being the Turbo charged Rotax 912S. Base on the popular FS20x2, the FS22 retains the key features of small size and light weight. The return line valve usesour a new style PTFE disc, operated via the main ball valve allowing the return fuel to flow back to the tank from whicn it ws drawn. The FS22 is availab le in two forms, the FS22-2PD with its 1/8" female pipe fittings pointing downward (see image) or the FS22-2PS (sideways pointing fittings). Both valves include all of the safety features that appear in he full range of Andair Fuel Selectors.

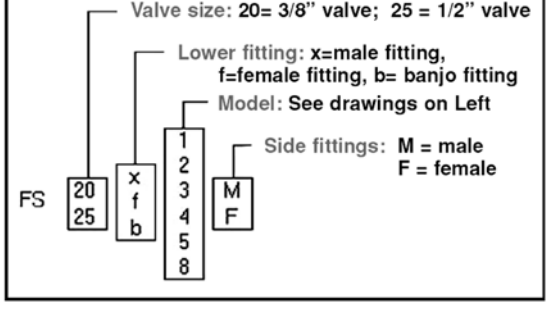
Model No.	Part No.	Description	Thread	Ports	Price
FS22-D2-6F-PS	05-29564	3/8"Feed,1/8"Return	1/4,1/8"Pipe	Female	**$606.00**
FS22-D2-6M-PS	05-29566	3/8"Feed,1/8"Return	9/16-18	Male	**$633.00**
FS22-D2-6F-PD	05-29567	3/8"Feed,1/8"Return	1/4,1/8"Pipe	Female	**$663.00**
FS22-D2-6M-PD	05-29568	3/8"Feed,1/8"Return	9/16-18	Male	**$606.00**

ANDAIR F520 FUEL VALVES

The FS20x4 Fuel Selector is designed for high wing aircraft where it is possible to feed from both tanks simultaneously. Porting for the both position is done internally so there is no need to T the two tanks together. There is a 90 degree action between each tank selection, and the safety feature where the red button on the lever has to be raised to switch off the fuel. On the FS20x4 there are 3 ports. The lower port is the outlet to the engine and can be Male AN-6, Female 1/4NPT or a Banjo fitting which is a 360 degree adjustable fitting with a male AN-6 end. One of the great features of this unit is that when the selector is in the OFF position, there is no cross feed between each tank. So if you have your aeroplane parked on a slope, or if one tank is fuller than the other, no cross-feed will occur.

Part No.	Model	Description/Ports	Price
05-01023	FS20X1M	On/off (90 Degree Action Shut Off Valve) Male	$477.00
05-29506	FS20X1F	On/off (90 Degree Action Shut Off Valve) Female	$435.00
05-29505	FS20X2F	Left/right/off (90 Degrees Between Left And Right) Female	$493.00
05-29507	FS20X3F	Left/right/off (180 Degrees Between Left And Right) Female	$467.00
05-02635	FS20X4M	Left/both/right/off (90 Degrees Action Between Each Position) Male	$477.00
05-29508	FS20X4F	Left/both/right/off (90 Degrees Action Between Each Position) Female	$467.00
05-01419	FS20B4M	Left/both/right/off (90 Degrees Action Between Each Position) Banjo/male	$468.00
05-01432	FS20F4F	Left/both/right/off (90 Degrees Action Between Each Position) Female/female	$493.00
05-29509	FS20X5F	Left/main/right/off (90 Degrees Action Between Each Position) Female	$463.00
05-13056	FS20X7-T	Left/right/off (90 Degrees Between Left And Right) Elbow Male/elbow Male/male	$535.00

PLEASE ORDER USING THE FOLLOWING PART NUMBERS:



FS20 – 3/8" **FS25 – 1/2"**

FUEL VALVES

HOMEBUILDERS SHUT-OFF VALVES

A full-flow plug valve with solid bottom and integral mounting bracket. Brass body and plug. Floating stem with O-ring prevents leakage. Packed with synthetic grease which resists gasoline and solvents. Indicating click on 3-port and 4-port valve (CN models) tells when handle is in full open or closed position. Tested to 30 PSI. Not FAA approved.

Part No.	Model No.	Imperial Equiv.	Valve Type	Pipe Thread	Price
6749	210-CL	108HD-04	3-Port*	1/4" Female x 1/4" Female	**$45.50**
05-01032	210-CN	108HD-06	3-Port*	3/8" Female x 3/8" Female	**$46.60**
05-01033	200-CL	114-HD-04	4-Port**	1/4" Female x 1/4" Female	**$47.65**
05-01034	200-CN	114HD-06	4-Port**	3/8" Female x 3/8" Female	**$53.75**

***For 2 tanks. Flow is from either side to branch.**
****For 3 tanks. Flow is from any side to bottom outlet.**
Note: Order valve with 1/4" pipe threads for 3/8" dia. fuel line. Order valve with 3/8" pipe threads for 1/2" dia. fuel line. These pipe thread sizes are the ones normally associated with the indicated tube sizes.

HOMEBUILDERS WEATHERHEAD FUEL VALVE HANDLE

This unique fuel valve handle is designed to provide a positive feel and makes it easy to determine the current tank selection. It fits the popular Homebuilders and weatherhead fuel valves and is made from billet 6061T6 aluminum bar stock. They are milled, not cast. Handles are hand deburred, red anodized, and laser etched.

P/N 05-07184 .....**$49.50**

NEWTON BANJO FITTING SETS

The fittings enabled you to plumb straight into the aeroplane system with no extra fittings to buy. The lightweight alloy construction is anodized for protection; the Viton 0 ring seals are suitable for all current fuels. For experimental aircraft only. Fittings must be purchased separately; if needed, 3 AN-6 fittings come with the valve.

Fittings:
AN8 Male NPT 1/4" OR 3/8" Female and banjo fittings are available, all seal to the valve with O ring system Standard AN fittings cannot mate directly to the valve.

Specifications: • Banjos Size: 1/4, 5/16, 3/8 • Banjo Bolts: 2x14mm • NPT Felmale: 1/4"

1/4" Fitting Set .....P/N 05-06471 .....**$64.75**
5/16" Fitting Set .....P/N 05-06472 .....**$60.75**
3/8" Fitting Set .....P/N 05-06473 .....**$76.95**
1/4" Large Fitting Set .....P/N 05-06474 .....**$66.95**

FUEL SELECTOR VALVE ASSEMBLY FOR CESSNA 170 / 172 / 175

Mcfarlane MC0513120-5 Fuel Selector Valve Assembly.....P/N 05-22374 .....**$2,180.00**

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY

FUEL SELECTOR VALVE GASKET FOR CESSNAS

Cork/rubber gaskets meets tough government standards for fuel resistance. Model 0513125 Fits many Cessna 172/175/177/210 models. See our website for application chart.

P/N 01-01353 .....**$51.75**

HIGH-PRESSURE BRASS BALL VALVE

Great for use in tight spaces, suitable for high-pressure applications. Connections are NPT. Body is brass, ball is nickel-plated brass, seats are PTFE, and seal is fluoroelastomer. Valves have unrestricted flow (full port).

Specifications:
Female x Female • Pipe Size: 1/4" • End-to-End Lg.: 1 15/16" • Lever Handle • Max. Pressure for Water, Oil, and Inert Gas: 1000 psi @ 70°F • Temp. Range: -40° to +300°F • Vacuum Rating: 29" Hg.

P/N 05-06885 .....**$33.85**

WEATHERHEAD FUEL SHUT-OFF VALVE

3-way Weatherhead valves, with 1/4' female pipe ports feature a Delrin-spool design for smooth operation. Handle mounted on 1-1/4" long shaft. Not FAA approved.

Model No. 6749 3-Port Valve - Flow is from either side to middle port...P/N 6749 .....**$45.50**
Model No. 6747 4-Port Valve - Flow is from any horizontal port to bottom port.
P/N 6747 .....**$53.75**

MINIATURE FUEL VALVES

The lightest (4 oz.) smallest (1.5" long), easiest to operate ball type (not plug) on-off fuel valve available. Light operating force makes it ideal for remote operation. Not FAA approved. Forged brass with 1/4", 3/8", or 1/2" female pipe ends.

Thread	Length	Weight	Part Number	Price
1/4" NPT valve	1-13/16"	0.39 lbs	05-12627	**$53.75**
3/8" NPT valve	1-13/16"	0.39 lbs	05-23330	**$58.80**
1/2" NPT valve	2-7/16"	0.59 lbs	05-01026	**$54.80**

J-3 FUEL VALVE

This J-3 fuel valve includes a steel handle for use with the original pushpull shut off control. This valve is a significant improvement over the original brass style fuel valve. The new valve has a stainless steel ball seated in an inert composite seat. This improved design eliminates the stiff operation and leaking around the shaft that the original design was prone to. PMA approved. Uses 1/4" NPT fittings.

P/N 05-00848 .....**$255.95**

FUEL VALVE FOR CESSNA 150 - 150L

McFarlane 0411803-6S valve for fuel and repaired with core- taper style.
Additional core charge added to purchase at time of checkout.

P/N 05-19276 .....**$1,378.00**

SPRL FUEL VALVES

A three/four way fuel selector offering left-off-right and both if required. There are 90 degrees between selections and the absence of a lower fitting reduces the depth required. The lift and turn selector is instinctive, secure, and easier to use than the complex 'lift button' type. The locking detents avoid accidental movements. The fixings match most installations, and the internal ports prevent cross feeds, unless 'selected to 'Both'. Male AN fittings enable you to plumb straight into the aeroplane system with no extra fittings to buy. Suitable for all current fuels. For experimental aircraft only. Fittings must be purchased separately.

The new V4 offers a full flow return added to the existing valve base. Ceramic disks and valve simplicity promise a long life with the ceramics. Please note that the accessories listed below are the only compatible accessories; other standard accessories will not fit these valves.

SPRL V1 3 way valve.....P/N 05-04450 .....**$246.95**
SPRL V1 4 way valve.....P/N 05-04451 .....**$246.95**
SPRL V4 3 way valve.....P/N 05-08366 .....**$500.00**
SPRL V1-3P-C way valve w/ conforming selector
P/N 05-11464 .....**$246.95**
SPRL V1-4P-C way valve w/ conforming selector.....
P/N 05-11465 .....**$246.95**
SPRL V3-3P-C Duplex valve with conforming selector.....
P/N 05-11466 .....**$295.95**
SPRL V3-4P-C Duplex valve with conforming selector.....
P/N 05-11467 .....**$332.00**

ACCESSORIES

Must purchase these parts. Standard AN do not fit the valves.

AN6 Male Fittings (pk of 3).....P/N 05-04452 .....**$17.50**
AN8 Male Fittings (pk of 3).....P/N 05-04453 .....**$17.50**
NPT 1/4" Female Fittings(pk of 3) .....P/N 05-04454 .....**$17.50**
NPT 3/8" Female Fittings (pk of 3) .....P/N 05-04455 .....**$17.50**

SPRL On/Off V2 Valve .....P/N 05-06468 .....**$100.75**
SPRL V3-3P Duplex Valve.....P/N 05-06469 .....**$289.95**
SPRL V3-4P Duplex Valve.....P/N 05-06470 .....**$314.00**

SPRL V6 VALVE FOR ROTAX

V6 is a miniature valve aimed at the Rotax market with 6mm pipes in mind. Weight 127 grams **** C means FAR23 conforming selector. Can be installed inside 2-1/4" width having parallel inputs from the rear tapped 10mm to use standard Rotax banjos or straight fittings.

Model	Specifications	Part No.	Price
V6 54-3-C	V6 with a small 54mm face plate. 3 way, L/R/Off	05-14988	**$242.95**
V6-54-4-C	V6 with a small 54mm face plate. 4 way, L/Both/R/Off	05-14989	**$242.95**
V6-70-3-C	V6 with 70mm face plate. 3 way, L/R/Off	05-14992	**$242.95**
V6-70-4-C	V6 with 70mm face plate. 4 way, L/Both/R/Off	05-14993	**$242.95**

NEWTON V9-4 WAY VALVE

SPRL V9-4 duplex valve with ceramic disc valves for feed and return.

It is tapped 1/4"nps feed and return and will take standard npt fittings and our -6 banjos.

V9-4 can carry the small selector plate 54mm in diameter or the standard plate @70mm interchangeable with other valves and other types. V9-4 is perfect for any traditional return system but Rotax ask for over-pressure protection when the fuel is turned off and may be heated after shut down.

The SPRL Valves, as designed, have a very nice 'feel' and are logical in use, however, there is a requirement in FAR 23 whereby the fuel valve must be turned from OFF to an ON selection simply by turning it, i.e. it should not have to be lifted up, pushed down etc, and it should also not be possible to turn it from an ON position to OFF without a dent.....P/N 05-21697 .....**$508.00**

NEWTON SPRL FITTING 14 MM X 3 IN

L fuel valves V1, V2, and V3. 14mm X 3" fitting. ....P/N **$15.90**

REMOTE FUEL VALVE DRIVE

A remote drive has the selector conveniently at hand while the valve and pipes are on the bottom of the fuselage or even on the front of the firewall. We include a flexible universal drive joint to accept small errors in alignment. The standard drive is 12" long but drive shafts up to 6 feet are available.

P/N 05-06501 .....**$170.80**

PIPER PA-28 FUEL SELECTOR VALVE

OEM Piper fuel selector valve for PA-28 series aircraft

P/N 05-19178 .....**$884.00**

PIPER AEROSTAR FUEL SELECTOR KNOBS

The difference from the OEM equipment is the readily-visible white indication line on each knob. The white line matches up with each selection line on the panel so you can easily view the fuel selection position at a glance, even in poor lighting conditions. And these knobs will never slip on the boss. A bit of peace of mind in high workload flight conditions. Package of 2.

P/N 05-14951 .....**$77.75**

EXTENDED FUEL VALVE DRIVE

The standard drive is 12" long but drive shafts up to 6 feet are available. The universal joint is modestly priced as it is not new, but for this usage, 'new, surplus' is ideal. The drive tubes can be cut to any required length and simply push together. Price per foot. 6' shipping limit. Note: Special order lengths available upon request.

P/N 05-06557 .....**$18.85**

ALLEN PREMIUM FUEL SHUT-OFF VALVES

These premium fuel valves are recommended by Rutan Aircraft as the best fuel valves they have seen. They are a direct, bolt-in replacement for Weatherhead and other fuel valves. They turn smoothly and freely with a very positive spring loaded ball detent system which lets you feel the left right and off positions. Manufactured of anodized aluminum. Handle is not furnished with valve. Available in 3 models. Model GS122 valve originally recommended for Long-EZ. Not FAA approved. For experimental aircraft only.

	Model 6S122 P/N 05-29500	Model 6S1000 P/N 05-29515	Model 6S1001 P/N 05-29525
Handle	No	No	No
Ports	3	4	3
Ports Configuration	3 x 1/4-18 NPT	MS33649-06	MS33649-06
Handle Positions	4	4	4
Ports Open			
Position 1	All Closed	1 & 4	C & A
Position 2	A & C	2 & 4	C, A & B
Position 3	All Closed	3 & 4	C & B
Position 4	B & C	All Closed	All Closed
Price Each	**$318.00**	**$4,588.00**	**$5,119.00**

HANDLE FOR ALLEN FUEL VALVES

This aluminum handle is specially machined to fit the Allen fuel valves above..P/N 05-01915 .....**$45.50**

EXTENDED HANDLE SHAFT FOR ALLEN FUEL VALVES

Used to make an extended handle shaft for the Allen fuel valves. The handle extension can be made as long as desired.....P/N 05-01916 .....**$130.75**

AP

FUEL FLOW VALVE

Designed for tank installation. Similar to above but without built-in filter. 90° rotation for ON-OFF. Has standard 1/4" barb outlet tube.

P/N 05-01041 .....**$9.60**

FUEL FLOW VALVE

Twin-tank fuel selector valve. 3 positions: LEFT-OFF-RIGHT. LEFT and RIGHT positions are 90° either side of OFF. Panel mount.

P/N 05-01042 .....**$11.75**

FUEL FLOW VALVE

Panel mounted fuel on-off.

P/N 05-01043 .....**$17.60**

FUEL TANK VALVE 90 DEGREE WITH GROMMET

Standard replacement valve and grommet for plastic or Quicksilver type fuel tanks. Right angle valve shut-off with a 1/4 turn of the handle. Requires 33/64" hole in tank. Barb end accepts any 1/4" i.d. fuel line. Supplied with Grommet. Weight 2 oz.

P/N 15-05334 .....**$9.60**

BANJO FITTING

This can be rotated through 360° then tightened and safety locked. Excellent for applications where space was limited. It can really be described as an adjustable 90° elbow fitting.....P/N 05-29565 .....**$88.75**

FUEL FLOW ELBOW

Bushed 90° tank fitting with standard 1/4" barb outlet. Requires Rubber Bushing P/N 05-01039.

P/N 05-01045 .....**$2.70**

90 DEGREE FUEL TANK ACCESS ELBOW

Bushed 90° tank fitting with standard 1/4" barb outlet and 1/4" barb in the tank Requires Rubber Bushing (P/N 05-01039) .....P/N 04-02163 .....**$2.63**

RUBBER BUSHING

Required for installation of Fuel Flow Elbow described above .....P/N 05-01039 .....**$0.49**

05-01035

05-01036

05-01037

05-01038

QUICK-DISCONNECT FUEL LINE FITTINGS

Complete sets are furnished with both male and female units. Available in both panel mount (left) and in-line (center) styles, with or without internal automatic fuel shut-off. (1/4" tubing).The O-rings are made of Viton Synthetic rubber which is compatible with alcohol based fuels.
Excluding P/N: 05-01038 (Buna-N Rubber)

In-line with shut-off .....P/N 05-01035 ..**$29.70**
In-line without shut-off .....P/N 05-01036 ..**$14.85**
Panel mount with shut-off.....P/N 05-01037 ..**$46.95**
Panel mount without shut-off...P/N 05-01038 ..**$30.50**

PRIMER BULB

Install between fuel tank and engine. A few squeezes prime your engine for easy starting.

Primer Bulb 1/4" Tube Fit - Lg. (7" x 2") .....P/N 05-03690 .....**$25.90**

PRIMER KIT

Everything you need to add a plunger-type primer system to your aircraft. The kit includes the plunger, a reducer "T" fitting, 1/8" barb "T" fitting, and 10 feet of 1/8" urethane fuel line.

P/N 05-01047 .....**$34.85**

ACS PRIMER

Formerly manufactured by Gerdes Products, this primer has an anodized, all aluminum body and an engraved aluminum knob. The inlet and outlet ports are located on the sides of the pump and both are 1/8" pipe thread. Overall length is 3-5/8" and weight is 3.5 oz. New manufacture. Current inlet and outlet locations were changed from original design on 10-27-16. Made in USA. Note: 2 O-Rings are used per primer. For overhaul, customer will need quantity 2 of 05-19920. See Accessories.....P/N 05-19920 .....**$288.95**
Replacement O-Ring .....P/N 05-11936 .....**$6.50**

ELECTRIC SOLENOID ENGINE PRIMER VALVE

These new electric solenoids are recommended by Co-Z Development Corp. as ideal electric engine primers for homebuilt aircraft. These normally closed 2-way valves are direct acting and have only two moving parts, a viton plunger and stainless steel spring. Can be installed in any position and are easy to inspect without removing from the line. Pipe size is 1/8" NPT. Orifice dia. 1/8". Wt. 5 oz. #1 port is out, #2 port is in. Will handle max. PSI of 60.

Mounting Bracket - A universal stainless steel mounting bracket for the 1/8" NPT valves may be ordered separately. The mounting bracket can be assembled to the valve body utilizing the body mounting holes

2V Solenoid VLV 20CC02PV4B2A .....P/N 05-04368 .....**$107.75**
24V Solenoid VLV 20CC02PV4B2B .....P/N 05-04369 .....**$108.75**
Solenoid Mounting Bracket 4K007.....P/N 05-04370 .....**$174.95**

PRIMER OVERHAUL KIT

Restoring primer pump operation - The kit is replaces the worn O-rings (2) on the primer pump used on non-fuel injected engine installations. The primer seals frequently are not re-lubricated until someone complains the primer isn't working or the engine is hard starting. This is most evident by the pump being hard or stiff to operate. Generally speaking, by the time the pump stops performing, the seals are worn (to the point that lube is of little value) and must be replaced. The kit contains the two O-rings, a packet of Seal Lube, and detailed instructions.

P/N 05-03637 .....**$8.99**

FUEL LINE

Polyurethane tubing, translucent blue in color. 1/4" ID. A superior, premium grade of urethane, the optimum material for ultralight fuel line. (Min. order, 4 ft.)

P/N 05-01049 ..... **$2.12/ft.**

PRIMER LINE

Polyurethane tubing, translucent pink in color. 1/8" ID. For primer systems.....P/N 05-01050 ..... **$0.83/ft.**

PULSE LINE

Connects engine pulse outlet to fuel pump pulse inlet. Outside Diameter: 3/8". Inside Diameter: 1/4". Thickness of the Wall: 3/32".....P/N 05-01063 ..... **$1.59/ft.**

FUEL LINE SPLITTERS/JOINERS

Perfect for feeding from 2 tanks, or for feeding two carburetors from 1 tank. All have standard barbed ends. Made of Delrin.

"T" type, 1/4".....P/N 05-01051 .....**$2.70**
"Y" type, 1/4".....P/N 05-01052 .....**$2.50**
"T" type, 1/8".....P/N 05-01053 ..... **$2.70**

FUEL TRANSFER PUMPS – FUNNELS

FUEL FILTER FUNNELS

P/N 05-00026

P/N 05-01054

P/N 05-01055

P/N 05-01371

Mr. Funnel® Fuel Filters are simply amazing. Dirty fuel in.... pure fuel out. It's that easy.
The specially designed filter removes water and dirt from gas, even 2-stroke mixtures. Ethanol attracts water more than regular gasoline. Never before has a fuel filter been more important.
Dirt and water are practically unavoidable in stored fuel, causing microbial growth, corrosive acids, electrolysis and rust. These contaminants can plug filters, corrode components, decrease efficient combustion and cause engine shutdown or system failure.
When fuel is poured through the Fuel Filter Funnel, water and debris will not pass through the filter's fluoropolymer-coated stainless steel filter. Only filtered fuel flows through to your engine, improving its efficiency, durability, and proper operation. The sump area collects the deflected water and debris for proper disposal. The Fuel Filter Funnel will filter gasoline, diesel, heating oil, kerosene and 2-cycle mixed gas.
The Fuel Filter Funnel is a heavy-duty, anti-static, and fast flow funnel with built-in filter technology.
Lawn mowers, tractors weed trimmer/blowers, dirt bikes/ATVs, boats, even airplanes... will have longer useful lives if owners filter their fuel!

Part No.	Height	Diameter	Flow Rate	Price
05-00026	6.00"	3.5"	2.7 gpm	**$29.70**
05-01054	8.75"	5.5"	3.9 gpm	**$41.50**
05-01055	10.00"	8.5"	5.0 gpm	**$54.75**
05-01371	10.00"	8.5"	12-15 gpm	**$95.75**

GOATTHROAT FUEL TRANSFER PUMP

GoatThroat Pumps have been in the industrial market for 15 years. Recently introduced to aviators, these pumps deliver fuel efficiently and directly to the filler downspout with a finger controlled discharge nozzle. Made of chemical grade polypropylene, GoatThroat Pumps can pressurize any container in seconds. Internal pressure relief valve opens at 7 psi, but 2 psi is all you need to deliver fuel safely to your plane. A drip-proof faucet dispenses small amount or gives steady flow. Containers remain upright, so there is no extra handing and little chance for accidental spills. Includes the fitting for a 55 gal. drum. 5 gal. can fitting sold separately.
Fuel Transfer Pump.....P/N 05-02196 .....**$288.95**
Adapter for Blitz 5 gal. can.....P/N 05-02197 .....**$81.75**
Adapter for Scepter 5 gal. can .....P/N 05-03031 .....**$100.75**

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• 100,000 Parts!
• 24 Hour Access!
• Fast, Easy Navigation!

OIL / WATER RESERVOIR TANK

Constructed of high density polyethylene, this blow molded multi-purpose tank offers excellent durability and resistance to most chemical and fluids. All sizes nominal. Height includes neck & fittings. Width includes mounting tabs. Max working temperature is 180-deg F and max working pressure is 5 PSI.
Features: • Blow molded seamless wall construction • Height with neck: 6.67" • Some tanks have rugged mounting tabs with slots • Tanks are UV resistant, accessories are not • 100% leak tested prior to shipment • Do not meet CARB/EPA requirements; not for fuel • Maximum pressure: 5 psi • Maximum temperature: 180°F
• (2.25" Neck) .....P/N 15-08320 .....**$24.50**

VP SPORTSMANS CONTAINERS

These 5 gallon polyurethane ventilated containers are ideal for most motorsport fuels. The Sportsman's Container is a rugged, multipurpose tool that has a multitude of applications in the hangar and on the runway. This 5-gallon workhorse is FDA-approved for the storage of water and is also great for aircraft fluids, oils and industrial liquids. The Sportsman's Container is made using 30% more plastic than the standard 5-gallon containers and therefore designed to handle the rough treatment inherent in the maintenance and upkeep of your aviation equipment.

Description	Part Number	Price
White Square	05-06953	**$46.50**
White Round	05-06955	**$49.70**
Blue Square	05-06954	**$51.75**
Blue Round	05-06956	**$53.75**
Accessories		
Replacement Cap	05-06957	**$10.85**
Replacement Vent Cap	05-06958	**$2.35**
Deluxe Hose	05-06959	**$14.50**
Syphon Pump	05-06960	**$39.50**
Large Funnel with Filter	05-06961	**$64.75**

15-06828 15-06830 15-06936 15-04841

OIL INJECTION / WATER OVERFLOW RESERVOIRS

High density polyethylene tanks; ideal for Oil Injection Reservoir or Coolant/Water Overflow. Translucent white color easily shows fluid level. Tank is blown molded with a 1/4" thick seamless construction and includes rugged mounting tabs that mount to any flat surface. Includes a threaded 2-1/4" vented cap with tether to prevent loss. Sealed tank without drain, bottom access is easy for either push in fittings or threaded bulkheads with plenty of access thru large cap opening.
1 Quart: 7.74" high x 6.2" wide x 1/4" thick. Weight 10 oz. **Includes 1/4" barb spigot molded on bottom** .....P/N 15-06828 .....**$53.75**
1.5 Quart: 7.74" high x 5.9" wide x 1/4" thick. Weight 12 oz.
P/N 15-06830 .....**$32.80**
2 Quart: 5" high x 6" wide x 1/4" thick. Weight 8 oz.
P/N 15-06936 .....**$35.55**
4 Quart: 8-1/2" high x 6" wide x 1/4" thick. Weight 20 oz.
P/N 15-04841 .....**$35.85**
Replacement 2-1/4" Vented, Black, Nylon Cap.
P/N 15-06936-1 .....**$6.65**

FUEL CAPS

FUEL SELECTOR PLATE FOR LATER CESSNA 170'S &172'S

Before

After

This fuel selector plate is billet machined and anodized, with the text engraved on the plate. It is an efficient one piece design which is easy to install and factory guaranteed. FAA/PMA approved.

Cessna 172 - 37 Gals. .... P/N 05-00227 .....**$116.99**
Cessna 170 - 37 Gals. .... P/N 05-00899 .....**$117.75**
Cessna 172 - 36 Gals. .... P/N 05-00901 .....**$116.99**
Cessna 180 - 55 Gals. .... P/N 05-00902 .....**$116.99**
Cessna 180 - 60 Gals. .... P/N 05-00903 .....**$116.99**
Cessna 180 - 79 Gals. .... P/N 05-00904 .....**$116.99**
Cessna 172 - 84 Gals. .... P/N 05-00905 .....**$116.99**
Cessna 182 - 55 Gals. .... P/N 05-00906 .....**$115.75**

AVMAT AVGAS FUEL MATS

This fuel mat by Aviation Laboratories is made from heavy duty durable synthetic rubber. They are non-static and fuel resistant. Available with a center hole or a top offset hole. Size is 24" x 16", with a 4" diameter hole.

AVMAT-AVGAS1 (Top Hole) .....P/N 13-03588 .....**$246.95**
AVMAT-AVGAS2 (Center Hole).....P/N 13-03589 .....**$176.75**
AVMAT-JET1 (Top Hole) .....P/N 13-04925 .....**$246.95**
AVMAT-JET2 (Center Hole).....P/N 13-04926 .....**$246.95**

ANDAIR LOCKING FUEL CAP

This Locking Fuel Cap can be installed to RV wing tanks, crafted with a smart elegant design, is lockable with completely random key generation, comes with 2 keys, custom engraving upon request, and has Viton O-ring seal.

P/N 05-08037 .....**$264.95**
O-Ring For Locking Fuel Cap LFC/RV.....P/N 05-08037-1 .....**$5.55**

THERMOS STYLE PRESSURE FUEL CAPS

Pressure fuel caps are recommended for aerobatic installations. These caps are made with Buna-Nitrile gaskets for fuel resistance. These caps are non-vented for gravity fuel systems. It is highly recommended that a #40 (3/32") drill is used to drill a vent hole through the lower base plate and stud assembly using a drill press.

Part No.	Diameter (I.D.)	Height	Price Each
05-18400	2"	1-3/16"	**$89.75**
05-18402	2-1/2"	1-3/16"	**$74.75**

Aluminum weldable adapter neck for use with 2" cap illustrated.
3" Length .....P/N 10367-3 .....**$47.70**
6" Length .....P/N 10367-6 .....**$53.75**

RAM AIR PRESSURE CAP

Tube through cap allows forced air into tank which forces fuel out. Used with wing tank kits (05-06359)

P/N 05-08077 .....**$72.80**

FUELTAPE

While most FBOs do a great job of keeping fuel orders straight, mistakes can and do happen. As for pilots, sometimes it's not feasible to stand around waiting for the fuel truck to ensure the right fuel is being poured into the aircraft tanks. Simply tear off a piece and stick it over the fuel caps and you have a low-cost, reliable system to keep your tanks safe. Sold by the roll.

Jet-A .....P/N 05-06417 .....**$10.50**

FUEL CAP O-RINGS

Fuel Cap	Mfg. Part No.	Part Number	Type	Size	Price
Shaw 431/531	MS29513-338	MS29513-338	Nitrile	Large	**$3.70**
Shaw 431/531/416	MS29513-010	05-00107	Nitrile	Small	**$0.86**
Shaw 431/531	M25988-1-338	04-03827	Flourosilicone	Large	**$13.50**
Shaw 431/531	M25988-1-010	05-12763	Flourosilicone	Small	**$1.21**
Shaw 416	MS29513-232	MS29513-232	Nitrile	Large	**$3.35**
Shaw 416	M25988-1-232	04-03826	Flourosilicone	Large	**$17.50**
Shaw 416	M25988-3-010	04-03829	Flourosilicone	Small	**$1.01**
GABB 37810	MS29513-339	MS29513-339	Nitrile	Large	**$6.50**
GABB 37810	MS29513-110	05-00111	Nitrile	Small	**$0.67**
GABB 37810	M25988-1-339	04-03828	Flourosilicone	Large	**$15.90**
GABB 37810	M25988-1-110	04-03825	Flourosilicone	Small	**$2.36**

GAS TANK CAP GASKETS

Part No.	Description	Size	Price Ea.
05-18500	Piper	3" OD, 2" ID	**$4.90**
05-18505	Cessna	2-1/4" OD, 1-3/8" ID	**$4.99**

ACS TWIST-TO LOCK FLUSH FUEL CAP

The ACS Twist-To-Lock Flush Fuel Cap Assy is machined from 6061 aluminum billet. The cap is available in vented and non-vented configurations. The sealing element for the cap is an easily replaceable viton O-ring. The bottom of the cap is secured to the bottom of the ring by a safety chain to prevent loss of the cap during flight.

Complete Set (non-vented) .....P/N 10600 .....**$144.75**
Complete Set (vented) .....P/N 10610 .....**$150.75**
Replacement "O"Ring.....P/N 10609 .....**$5.50**

ACS FLUSH FUEL CAPS

This latest modification of the ACS Flush Fuel Cap (unvented) utilizes a Viton O-Ring as the sealing element between the cap and mounting ring. Ring may be welded, riveted, bolted or molded to the tank. The bottom of the cap is secured to the bottom of the ring by a safety chain to prevent loss of the cap in flight. Mounting ring flange is 1/8" thick. Ring opening is 2-5/8" dia. Overall dia. 4-3/8".

Complete Set (New-Style Cap w/Mounting Ring)
P/N 05-01390 .....**$143.75**
New Style Cap Only.....P/N 05-01391 .....**$58.99**
Replacement Viton O-ring (for New-Style Cap Only)
P/N 05-01392 .....**$10.65**

MARSH BROTHERS AVIATION FUEL CAP WASHERS

Avoid the hassle and difficulty of opening and closing fuel caps with tight hard to move locking tabs. The following kit contains two Fuel Cap Washers made from a durable thermoplastic polymer with inherent self-lubricating properties.

Single.....P/N 05-22216 .....**$103.75**
2-Pack .....P/N 05-22215 .....**$160.75**

PIPER FAA / PMA FUEL CAPS

Application	Description	Part No.	Price
PA-24-250 s/n-24-01 - 24-3687 PA-24-260 s/n-24-4993 - 24-6000 PA-24-400 s/n-26-02 - 26-148 PA-30 s/n-30-02 - 30-2000 PA-39 s/n-39-01 - 39-155 Replaces OEM 27221, 23/8"	PA-24 2-3/8" Dia.	05-08079	**$198.75**
PA-23-150, 160 s/n-23-01 - 23-2046 Replaces OEM 17672, 1-7/8"dia.	PA-23 1-7/8" Dia.	05-06466	**$185.99**
PA-23-250, 23-235, all serial numbers Replaces OEM 16097, 2-3/8" dia	PA-23 2-3/8" Dia.	05-04161	**$135.75**

PIPER PA23 FUEL CAP

CA16097N is an improved version of part number CA16097. This new part uses an improved elastomer with superior fuel resistance. The fuel cap is eligible for PA23 aircraft.....P/N 05-04161 .....**$135.75**

PIPER PA-23 FUEL CAP

The 2 inch Piper PA-23 fuel caps are back. PMA Products, Inc. announced the return of their CA17672N fuel caps that are manufactured with improved rubber specifically formulated to prevent swelling. This part number replaces Piper part numbers 454-084 and 17672-000. **Specifications**: FAA-PMA Approved. Eligible Aircraft: Piper PA-23 (Beginning S/N 23-1, Ending S/N 23-1182) Piper PA-23-160 (Beginning S/N 23-1177, Ending S/N 23-2046)

P/N 05-06466 .....**$185.99**

USHER FLUSH FUEL CAPS

The UD-3 flush fuel cap assembly is an unvented cap similar in design to the #5 style cap. The aluminum mounting ring has a 2" dia. opening and an overall dia. of 3-3/4". It may be riveted, bolted or molded to the tank. It is currently used on many popular homebuilts such as the RV's, Lancair, Velocity & White Lightning. Specify flat or contoured adapter.

UD-3 with Flat Adapter.....P/N 05-01061 .....**$141.80**
UD-3 with Contoured Adapter.....P/N 05-01062 .....**$137.75**
UD-3-C Fuel Cap Only.....P/N 05-15373 .....**$119.75**
Usher O-Ring 2-325 Large.....P/N 05-02146 .....**$4.65**
Usher O-Ring 2-012 Small.....P/N 05-02147 .....**$3.95**

FUEL CAPS

AERO FUEL CAPS - ALUMINUM

05-00045

05-28651

05-28652

05-28653

These English fuel caps are used on most of the worlds super cars and bikes, and some series production aero planes. They are beautifully made in forged and bright anodized aluminum. The high precision and easy to operate mechanism is very secure and non vented. They are designed to keep the fuel in and the water out. The lock is there to ensure that your tank is free from contaminants. Aero caps are used on Adam, CAP, Cirrus, Diamond, Lancair Columbia, Lancair kits, Nemesis, Vans, Velocity and many more aircraft. Cap assemblies come complete with cap, gasket, and flanges as ordered. Two keys come with the locking version. Fixing can be by rivet, bolt, weld or glass in as appropriate. These are flush caps of outstanding quality which are ideal for virtually any homebuilt aircraft. Order the attach ring separately as needed, see accessories. The 300 Series: 3-3/4" OD opening 1-3/4", 6 hole 3" pcd. A37 fits 2" and 2.25" Hoses. The A512 & A508 Series: 3" entry / 5.5" OD. Feature special surface seal to avoid water/ice ingress. For Avtur Jet and diesel fuels.

Series	Description	Part No.	Price
A3	A3L Locking Cap 6-hole	05-21999	**$165.75**
A3	A3NS Non-Locking 6-hole	05-22000	**$135.75**
A36	A36L Locking Cap Assy. 6-hole	05-28651	**$212.95**
A36	A36LFF Locking Cap Assy. Glass in	05-28652	**$220.95**
A36	A36S Non-Locking Assy. 6-hole	05-28656	**$195.75**
A36	A36SFF Non-Locking Flush Glass in	05-28658	**$209.95**
A37	A37L Locking Cap+ Hose Fitting 6 hole	05-28653	**$237.95**
A37	A37LFF Locking Cap Flush Glass in	05-28654	**$250.95**
A37	A37S Non-Locking+ Hose Fitting 6-hole	05-28659	**$224.95**
A30LR	Aero 300 Lock Fuel Cap w/Rivet Flange	05-26740	**$210.95**
A30LS	Aero 300 Non-Locking Fuel Cap	05-26741	**$185.75**
A512L	A512L 3" Cap, Locking - 12 hole	05-00045	**$266.95**
A512FF	A508L 3" Cap, Locking - 8 hole	05-04538	**$286.95**
A512FF	A512FF Locking (Glass-In) Cap	05-02650	**$260.95**
Replacement Neck Flange for 05-28666 Cap		05-11451	**$53.75**

NEWTON AERO 200 FUEL CAP

The all-metal construction of the Aero 200 Fuel Cap combines strength and lightweight, with a 6 hole flange - To fit directly into tank. Specified for use with many hostile fluids. Non-locking Due to the compact dimensions it is not possible to fit a lock to the Aero 200 ..... P/N 05-06836 ..... **$163.90**

AERO 300 - A30 LOCKING AND NON-LOCKING FUEL CAP

Two keys come with the locking version (L). Fixing can be by rivet, bolt, weld or glass in as appropriate. These are flush caps of outstanding quality which are ideal for virtually any homebuilt aircraft. The 300 Series: 3-3/4" OD opening 1-3/4", 6 hole 3" pcd. A37 fits 2" and 2.25" Hoses.

Locking ..... P/N 05-22934 ..... **$198.75**
Non-Locking ..... P/N 05-22935 ..... **$177.85**

LOCKING FUEL CAP FOR RV'S

Replacement metal cap for the Lightweight SPRL Fuel Cap. Available as locking only.
This fuel cap will fit all SPRL Flanges, e.g the SPRL Universal Flange and G/S Flange. Ideal for all current RV's. ..... P/N 05-27067 ..... **$103.75**

NEWTON AERO 400 FUEL CAP - 8 BOLT

The Aero 400 is available with a locking (L) or non-locking (S) option. The locking type can be supplied with matching key numbers. Newton Equipment Flush Cap, A48S, 3". This flush cap features a 8 bolt pattern and a 4" bolt center

Non-Locking..... P/N 05-28620 ..... **$201.95**
Locking ..... P/N 05-26422 ..... **$199.80**

AERO FUEL CAP OVERHAUL KITS

Overhaul kits contain the required viton rubber seals, stiffnuts and clips.

Aero 300 Fuel Cap Overhaul Kit ..... P/N 05-02218...**$18.70**
Aero 400 Fuel Cap Overhaul Kit ..... P/N 05-02613...**$25.75**
Aero 500 Fuel Cap Overhaul Kit ..... P/N 05-02219...**$43.50**

LIGHTWEIGHT DOOR LOCK SETS

Match above fuel cap locks ..... P/N 05-28664 ..... **$25.55 ea.**

NEWTON FUEL CAP KEYS

#	Part No.	Price
601	05-15071	**$25.55**
602	05-03663	**$28.65**
603	05-15072	**$25.55**
604	05-03437	**$26.50**
605	05-04540	**$25.55**
606	05-03388	**$25.55**
607	05-03389	**$25.55**
608	05-04541	**$25.55**
609	05-04542	**$25.55**
610	05-15073	**$25.55**

#	Part No.	Price
611	05-15074	**$25.55**
612	05-15075	**$26.50**
613	05-15076	**$25.55**
614	05-15077	**$25.55**
615	05-15078	**$25.55**
616	05-15079	**$25.60**
617	05-15080	**$25.55**
618	05-22850	**$24.50**
619	05-22851	**$24.50**

CAPS FOR FUSELAGE AND WING TANKS

For separate fuselage and wing tanks we offer a screw in flange to fit a 2.25" threaded bushing that can be welded or glassed into a tank. This gives a flush fitting outside the skin, avoiding doors and internal spillage. Ideal for all wooden airplanes (e.g. Falco). Good for smoke oil tanks.

A30S-G/S Non-Locking, Threaded..... P/N 05-28705 ..... **$206.95**
A30L-G/S Locking,Threaded..... P/N 05-28700 ..... **$231.95**
Aluminum Tank Flange ..... P/N 05-01056 ..... **$21.55**

BAYONET FUEL CAPS AND FILLER NECKS

Locking bayonet type cap with gasket, fastens to filler neck with safety chain. Externally threaded to mate with tank flange. 1.5" dia. filler hole, 2.25" diameter at threaded base, 1-3/8" neck length. Complete with aluminum tank flange designed for welding to aluminum tanks. Inner surface threaded to receive filler neck. Not compatible with auto gas.

Complete Set with Unvented Cap ..... P/N 05-17800 ..... **$60.75**
Complete Set with Vented Cap ..... P/N 05-17900 ..... **$62.75**
Aluminum Tank Flange ..... P/N 05-01056 ..... **$21.55**
Cap Only (unvented) ..... P/N 05-01057 ..... **$13.50**
Cap Only (vented) ..... P/N 05-01058 ..... **$16.50**
Gasket for above Caps ..... P/N 05-01059 ..... **$3.70**
Filler Neck ..... P/N 05-01060 ..... **$24.50**

RETROFIT FUEL CAPS

Tired of hard to open gas caps and caps which leak? These retrofit gas caps offer easy fingertip action and secure sealing.

GLASAIR FLUSH FITTING CAP

replaces the rubber seal Glasair cap (2.5-entry and 2" hole). Lockable. Epoxy/Flox in place. Based on aero 300 series ..... P/N 05-01004 ..... **$227.95**
Replacement cap ..... P/N 05-21999 ..... **$165.75**

VANS RETROFIT FUEL CAP

Fits inside existing Vans flange and arrives flush to the wing surface, replacing the standard 'Usher' cap. Two keys with each cap and matching key numbers. Easy action and secure seal with 1-3/8" orifice. Use this cap for easy operation and zero leaks. Fix in place with eg 'proseal'.. P/N 05-01006 ..... **$105.95**
Replacement O-Ring Kit..... P/N 05-07226 ..... **$25.55**

LIGHTWEIGHT SPRL FUEL CAPS

SPRL-S-GS

SPRL-S

This cap has secure sealing and easy finger tip operation. These caps are made from the highest quality modern engineering plastics with Viton 'o' ring seals (which can be easily replaced if you should ever need to do so.) The mounting ring is anodized aluminum with the flange recessed to give a perfect flush fit whether it is riveted under a metal skin, as in the RV series, or built into a composite structure. This cap is non vented and recommended to keep the fuel in, the water out and in the locking version, other unwanted items out of your tank. Size: 65 mm O.D.; Wt: 80 grams. SPRL caps are used on Europa, Compair, Glasair, Lancair, Murphy, OMF, Rocket, Velocity, Zenith and many more experimental aircraft.

Non-Locking cap W/ Flush Flange SPRL-S... P/N 05-28662 ..... **$71.75**
Locking cap W/ Flush Flange SPRL-L..... P/N 05-28663 ..... **$99.75**
Cap with Threaded Flange SPRL-G/S..... P/N 05-28666 ..... **$86.75**
Locking cap with Threaded Flange ..... P/N 05-28667 ..... **$114.75**
Backnut to secure threaded flanges to skin (for 2.25" hose)
..... P/N 05-00042 ..... **$15.90**
Sprl Fuel Cap O-ring Kit..... P/N 05-02611 ..... **$17.50**
Replacement neck flange for 05-28666 Cap... P/N 05-11451 ..... **$53.75**

A-30 CIR THREADED FUEL CAP

A30-CIR is a screw threaded fuel cap the will fit almost flush to a skin, with the riveted flange on an adjacent tank or the back of a 'wet' skin. This was designed to be fitted after painting, reducing the likelihood of dirt/dust in the cap and the cost of masking/finishing operations. It is available with a locking or non locking cap.

A30 L-CIR Locking ..... P/N 05-06838 ..... **$228.95**
A30 S-CIR Non-Locking..... P/N 05-06837 ..... **$188.80**
SPRL rivet flange for threaded fuel caps
P/N 05-06491 ..... **$50.50**

ACS 10700 FLUSH FUEL CAP

The unvented flush fuel cap operates with a lift and turn lever. This cap has a 3" opening for easy refueling. Cap & adapter ring are anodized "clear" for corrosion resistance. Cap is fastened to adapter ring with safety chain. Made in the U.S.A.

10700 Flush Fuel Cap..... P/N 05-04702 ..... **$489.00**
Replacement O-Ring 10700 CAP ..... P/N 05-04703 ..... **$6.70**

AP

FUEL ADDITIVES

AP

PRIST® HI-FLASH® HI-FLO™ ANTI-ICING FUEL ADDITIVE

Prist® Hi-Flash® Hi-Flo™ Anti-Icing Fuel Additive: The Original Just Got Better Prist® Hi-Flash® Hi-Flo™ aerosol cans are now available with a redesigned trigger dispensing system that makes them easier and safer to use. The safety trigger gives the user control of additive flow with instant on and off dispensing. Now the trigger dispensing system comes pre-mounted on the can which eliminates leaks at the valve connection. This means less waste, no drips and no spills. Prist® anti-icing fuel additive comes in a wide range of packaging, making it easy to choose the amount of product and dispensing method for your application. The sizes include: 55-gallon drums, 5-gallon pails, 20-once and 8-ounce aerosol cans.

20 . can .....P/N 09-39555 .....**$29.90**
Case (24 Cans) .....P/N 09-39554 .....**$689.00**
5 Gal.....P/N 09-04436 .....**$303.00**

ALCOR TCP FUEL TREATMENT CONCENTRATE

ELIMINATE SPARK PLUG LEAD FOULING!

"Get the lead out" by using Alcor TCP Fuel Treatment, the only FAA-approved product of its kind for non-turbocharged engines. For use in low-compression piston aircraft engines, A simple treatment with every fill-up prevents that unwanted lead build-up, significantly reducing the fouling of your engine and the cost of flying. Only 1 ounce of TCP is required for every 10 gallons of fuel! The handy syringe dispenser allows precise measurement of the amount of TCP to put in your tank. Stop lead build-up before it starts with TCP! Sold in quarts. **TCP Syringe sold separately**
Note: TCP is not to be carried aboard aircraft.

Quart Can.....P/N 05-21300 .....**$75.85**
55-Gallon Drum .....P/N 05-01430 .....**$3,623.00**

Accessories

Dispenser -(For use on the QT. and Gallon bottles)
P/N 05-21500 .....**$8.99**

DECALIN RUNUP FUEL ADDITIVE

Decalin RunUp is approved for use with the new 100VLL (Very Low Lead) fuel announced by the FAA on Special Airworthiness Bulletin NE-11-55. Decalin RunUp contains two types of additive, one to reduce the negative effects of tetraethyl lead in aviation fuel and the other to improve the combustion efficiency, reduce combustion deposits and clean the fuel delivery system in aircraft. Decalin RunUp is not approved for use in the engines of certified aircraft.

16 oz.....P/N 05-01406 .....**$36.95**
Decalin Runup Fuel Additive Quart.....P/N 05-03412 .....**$60.75**

DECALIN FUELSTAT FUEL TESTING KIT

The objective of the test is to provide rapid screening of fuel samples (water in fuel or fuel), giving a quick and accurate assessment of H Res, bacteria & other fungi including yeasts in the fuel tank. This test is unlike current growth-based tests, which require a minimum of 72 hours to provide any results. The test measures the amount of active growth in the sample and provides actions and alert levels. The FUELSTAT® resinae PLUS test measures the amount of different types of contamination: H Res, bacteria and fungi actively growing in the sample and reports that as the weight of material in the sample. This is a newer, more accurate measurement system than the old Colony Forming Unit (CFU) count. .....P/N 05-15250 .....**$220.95**

FUEL FRESH

Aircraft sit - Fuel Fresh prevents gasoline from going stale. This process called Autoxidation occurs when oxygen reacts with fuel, thereby forming gum and varnish. Auto gas is particularly susceptible, losing octane performance and flammability, resulting in greater possibility for detonation. Add fuel Fresh and preserve fuel up to 24 months, maintain octane, prevent gum varnish, clean fuel system, and inhibit corrosion. Quick starts and clean burn are assured. Safe for 2 or 4 cycle engines. Handy measuring bottle. 32 fl.oz. Concentrate (Treats 96 Gal.)
P/N 09-38050 .....**$20.65**

HAMMONDS BIOBOR JF® FUEL BIOCIDE

For diesel and jet fuel. Recommended in many operating manuals as the preferred, industry standard fuel additive for eliminating Hydrocarbon Utilizing Micro-Organisms (HUM Bugs) in fuel tanks. US Coast Guard Certified and is the only diesel additive that has been given a military MIL Spec number.

16 oz.....P/N 05-04963 .....**$46.50**
1 qt.....P/N 05-04962 .....**$81.75**
1 gal.....P/N 05-04961 .....**$255.95**
5 gal.....P/N 05-04960 .....**$1,129.00**
55 Gallon .....P/N 05-06866 .....**$7,947.00**

HAMMONDS TURBOLINE FUEL STABILIZER

Turboline FS100 is a high-temperature fuel stabilizer and detergent additive designed to minimize carbon or coke deposits in turbine fuel combustion systems.
Turboline FS100 is readily soluble in jet fuel. Batch blending into the fuel is acceptable, but the best procedure is proportional injection. Turboline FS100 is completely compatible with other fuel system additives such as FSII and Biobor JF®. Turboline FS100 is fully approved for all operators using GE, Pratt & Whitney, Honeywell and all variants of the Turbomeca Arriel 1 & 2 engines. Operators with other Turbomeca engine models and Rolls-Royce can obtain approval on request. Please contact your local FAA authority, international authority, or OEM if you have specific questions concerning your equipment. Recommended Treatment Level for Turboline FS100 – The optimum treatment level in the fuel is 625 ppm (vol). This treatment level equates to about 80 oz. of product for every1,000 gallons of fuel. Gallons of Jet Fuel x .000625 = Gallons of Additive Gallons of Additive x 128 = Ounces of Additive.

16 oz.....P/N 05-06870 .....**$81.75**
5 Gallon .....P/N 05-06871 .....**$1,993.00**
55 Gallon .....P/N 05-06872 ....**$18,076.00**

HAMMONDS LUBRIBOR® HIGH TECH LUBRICITY AGENT

Designed to improve fuel lubricity and reduce fuel system wear. Applications– LubriBor® is specially formulated for use in lowsulfur diesel fuel, now required for all over-the-road vehicles, and may be used in other applications such as boating, industrial and construction equipment, mining and farm equipment.
Features: • Ensures fuel supply quality • Eliminates costly repairs and downtime • Low cost, easy-to-use • Early warning detection of microbial infestation in fuel • Detects microbial infestation in all hydrocarbon fuels and oils

16 oz.....P/N 05-06867 .....**$37.95**
1 Gallon .....P/N 05-22223 .....**$173.75**
5 Gallon .....P/N 05-06868 .....**$464.00**
55 Gallon .....P/N 05-06869 .....**$3,484.00**

HAMMONDS BIOBOR HUM-BUG DETECTOR KIT

The Hum-Bug Detector® Kit is a low-cost, easy-to-use early warning system that will effectively identify hydrocarbon utilizing micro-organism contamination in all hydrocarbon fuels and oils.
Features: • Ensures fuel supply quality • Eliminates costly repairs and downtime • Low cost, easy-to-use • Early warning detection of microbial infestation in fuel • Detects microbial infestation in all hydrocarbon fuels and oils.....P/N 05-04964 .....**$39.55**

FUEL TANK SEALANTS

3M™ AC-350 TYPE A & B AEROSPACE SEALANTS

3M™ Aerospace Sealant AC-350 is a family of intermediate density, fast-curing, polysulfide fuel tank sealants that provides outstanding resistance to aviation fuels and petroleum chemicals. The Class A, B and C variants maintain bond strength on many metal, composite and coated substrates and help meet a range of applications for integral fuel tank and fuselage sealing. The 3M™ Aerospace Sealant AC-350 family of polysulfide sealants provide a number of advantages and benefits compared to traditional sealants. With three classes, they meet a wide range of manufacturing and maintenance needs. **Class Distinction**: When Class A version is mixed, it provides a smooth pourable liquid that spreads evenly with a brush or roller to cover large areas quickly. Available in three different work lives, 3M™ Aerospace Sealant AC-350 Class A gives you the flexibility you need for various requirements. Rapid cure times keep your processes moving forward.

TYPE A

Description	Part No.	Price
AC Tech AC-350 A 1/2 2 oz. Kit AMS-S-8802	09-05586	**$30.50**
AC Tech AC-350 A 1/2 3.5 oz. Kit AMS-S-8802	09-05576	**$39.50**
AC Tech AC-350 A 1/2 Pint Kit AMS-S-8802	09-05577	**$231.95**
AC Tech AC-350 A-2 2 oz. Kit AMS-S-8802	09-05587	**$38.60**
AC Tech AC-350 A-2 Pint Kit AMS-S-8802	09-05578	**$118.75**

TYPE B

Description	Part No.	Price
AC Tech AC-350 B 1/2 2 oz. Kit AMS-S-8802	09-05579	**$41.50**
AC Tech AC-350 B 1/2 Pint Kit AMS-S-8802	09-05580	**$206.95**
AC Tech AC-350 B-2 2 oz. Kit AMS-S-8802	09-05581	**$55.75**
AC Tech AC-350 B-2 3.5 oz. FILL AMS-S-8802	09-04009	**$66.95**
AC Tech AC-350 B-2 Pint Kit AMS-S-8802	09-05582	**$206.95**
AC Tech AC-350 B-2 Quart Kit AMS-S-8802	09-05583	**$356.00**
AC Tech AC-350 B-4 3.5 oz. Kit AMS-S-8802	09-05584	**$39.50**
AC Tech AC-350 B-1/2 3.5 oz. Kit AMS-S-8802	09-05593	**$46.50**

3M™ AC-251 B-2 3.5 OZ - CANOPY / WINDSHIELD SEALANT

A two-part, quick curing, polysulfide based canopy and windshield sealants. Formulated for sealing acrylic, glass, and polycarbonate aircraft canopies and windshields. Contain no solvent and do not craze. Excellent adhesion and resistance to UV and weather exposure. 3.5oz Fill Premixed Syringe. A thixotropic, non-sag consistency.

P/N 09-04008 .....**$66.95**

PR-1425 CLASS B WINDSHIELD / CANOPY SEALANT

PR-1425 Class B is an aircraft windshield and canopy sealant. It has a service temperature range from -65°F to (-52°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing of properly prepared glass, polycarbonate, acrylic and other aircraft sealing applications. This product is specifically formulated not to craze substrates. The cured sealant exhibits excellent resistance to UV and weather exposure. 6 ounces .....P/N 09-05740 .....**$187.75**

PRO-SEAL FUEL TANK SEALANT

P/S 890 CLASS B2 - A filleting compound for sealing integral fuel tanks and pressurized cabins. It was especially developed for use over a temperature range of -65°F to +275°F and provides outstanding resistance to aircraft fuels (aviation gasoline or jet fuel) and petroleum base lubricating oils. Cures at room temperature and without shrinkage to form a resilient sealant possessing excellent adhesion to aluminum, magnesium, titanium, steel and numerous other materials.

Class	Size	Part No.	Price
B-1/2	2.5 oz.	09-04494	**$96.75**
B-1/2	3.5 oz.	09-04493	**$75.75**
B-1/2	Pint	09-04642	**$151.75**

Class	Size	Part No.	Price
B-2	6 oz.	09-04643	**$105.95**
B-2	Pint	09-38560	**$155.75**
B-2	Quart	09-38565	**$345.00**

PROSEAL PR-1776M CLASS B LOW WEIGHT FUEL TANK SEALANT

A low density, high temperature aircraft integral fuel tank sealant. Service temperature range from -65°F (-54°C) to 250°F (121°C), with very limited excursions up to 360°F (182°C). Designed for fillet sealing of fuel tanks and other aircraft fuselage sealing applications. Cured sealant maintains excellent elastomeric properties after prolonged exposure to aircraft fuels both jet fuel and aviation gas, and will resist limited contact to diphosphate ester based hydraulic fluids. Two-part, manganese dioxide cured Permapol® P-5 modified polysulfide. Suitable for application by extrusion gun or spatula. It cures at room temperature to form a resilient sealant. Shelf Life: 9 months. ..... P/N 09-02003 .....**$606.00**

PRO-SEAL HAND-DISPENSING GUN

These hand-operated dispensing guns are ideal for applying Pro-Seal type sealants in small quantities normally used by the home builder Available in two sizes for the two sizes of Pro-Seal offered above.

2-1/2 oz. Dispensing Gun.....P/N 09-38520 ...**$254.95/ea.**
6 oz. Dispensing Gun.....P/N 09-38530 ...**$289.95/ea.**

PRO SEAL AIR POWERED TS950 2.5 OUNCE GUN KIT

The Air Powered Sealant kit includes: Techcon TS950 Sealant Gun with Pistol Grip Handle 2.5 oz. Versatile, pneumatic 2.5 ounce sealant applicator system with pistol grip handle. Techcon Extended Wiper Plunger (1 piece per kit) Techcon 2.5 Oz. Standard Density Disposable Cartridge (1 piece per kit) Opaque White

Air Powered 2.5 Ounce Gun Kit.....P/N 09-38540 .....**$1,103.00**
Air Powered 2.5 Ounce Gun Only.....P/N 09-38542 .....**$1,103.00**
Extended Wiper Plunger (Sold Each) .....P/N 09-00758 .....**$1.11**
2.5 oz. Std. Density Disposable Cartridge ..P/N 09-00759 .....**$0.94**

PRO-SEAL FUEL TANK SEALANT 890 A2

An aircraft integral fuel tank sealant that has a service temperature range from -65°F (-54°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for brush and fay sealing of fuel tanks and other aircraft fuselage sealing applications. The cured sealant maintains excellent elastomeric properties after prolonged exposure to both jet fuel and aviation gas. A two-part, manganese dioxide cured polysulfide compound. The uncured material is suitable for application by brush in thickness up to 25 mils. It cures at room temperature to form a resilient sealant having excellent adhesion to common aircraft substrates.

P/N 09-04644 .....**$99.75**

PRO SEAL AIR POWERED TS950-60-HA 6.0 OZ GUN KIT

This 6.0 oz Pro Seal Gun Kit includes: Techcon Gun Pistol Grip Assembly TS950-60-HA 6oz. Techcon Extended Wiper Plunger (1 piece) Techcon 6 Oz. Standard Density Disposable Cartridge. Techcon TS950 10ft. Hose Assembly.

Air Powered 6.0 Ounce Gun Kit.....P/N 09-38550 .....**$1,236.00**
Air Powered 6.0 Ounce Gun Only.....P/N 09-38552 .....**$1,042.00**
Extended Wiper Plunger (Sold Each) .....P/N 09-00758 .....**$1.11**
2.5 oz. Std. Density Disposable Cartridge ..P/N 09-00759 .....**$0.94**
Techcon TS950 10Ft. Hose Assembly.....P/N 09-02416 .....**$201.95**

TRIGGER TYPE SEALANT GUNS

This air-powered, trigger controlled sealant gun will spread sealant smoothly, uniformly, and exactly where you want it. Includes body, 10 ft. hose, and 2 1/2 oz. zinc plated corrosion resistant retainer to prevent cartridge split. Hose has Hanson-style air fitting.

Gun with 2.5 oz. Retainer.....P/N 12-02923 .....**$155.75**
Gun with 6 oz. Retainer.....P/N 12-02922 .....**$155.75**

PISTOL GRIP SEALANT GUNS

Use this pneumatic pistol grip sealant gun to apply smooth, uniform material exactly where you want it. Comes with body, 10 ft. hose, and 2 1/2 oz. zinc-plated corrosion resistant retainer. Hanson-style air fitting on hose.

Gun with 2.5 oz. Retainer.....P/N 12-02921 .....**$237.95**
Gun with 6 oz. Retainer.....P/N 12-02920 .....**$188.80**
Gun with 2.5 oz. & 6 oz. Retainers.....P/N 12-04600 .....**$205.95**
2.5 oz. Retainer only.....P/N 12-04598 .....**$31.70**
6 oz. Retainer only.....P/N 12-04599 .....**$31.70**

THE APPLICATION LIFE OF EACH SEALANT IS SPECIFIED BY THE DASH NUMBER IN THE PART NUMBER. EXAMPLES: AC-236 B-2 6OZ. IS 2 HOUR LIFE. AC-250 B-1/6 2OZ. IS 1/6 HOUR LIFE.

FUEL TANK SEALANTS – CORROSION PROTECTTION

AEROLIFE POLYPROTECH FUEL TANK SEALANT SINGLE COMPONENT

Fuel Tank Sealant "Single Phase" (one-part) A long lasting, permanently flexible "Single Phase" Polysulfide Sealant. Tack-free in 1 to 3 days, excellent resistance to oils, gasoline and diesel fuel Ideal for fuel tanks; cures to a firm flexible rubber seal with excellent adhesion qualities, can also be sanded and painted. ..... P/N 09-02544 ..... **$18.95**

AEROLIFE POLYPROTECH FUEL TANK SEALANT DUAL COMPONENT

A long lasting, permanently flexible "Dual Phase" Polysulfide Sealant. Fast curing two part system where time of completion is the criteria; cures to a firm flexible rubber seal with excellent adhesion qualities. Excellent resistance to oils, gasoline and diesel fuel; ideal for fuel tanks, cures to a firm flexible rubber seal, a product more for the professional than the home builder. Approximately 45 minute application time.
Sealant ..... P/N 09-02543 ..... **$62.80**

ALCOHOL RESISTANT GAS TANK SEALER

This is impervious to all fuel types. Over 2,000,000 sold to date. It is the best way to repair and restore your fuel tank. Simple application, includes extensive application information and product information sheet. Will seal pinhole leaks and prevent rusting. 1 Pint will seal a 10-12 gallon tank. Good for all fuel types. Works well with all metal and fiberglass tanks. **Note**: For Experimental Aircraft Only!
Quart ..... P/N 09-03477 ..... **$53.75**
Gallon ..... P/N 09-02566 ..... **$129.75**

RHINO 9700 FUEL TANK SEALER

Rhino 9700 is a 100% solids epoxy system which is the highest quality fuel and chemical resistant lining and coating material available. It contains no solvents and no corrosive or carcinogenic substances to assure low toxicity and ease of application. Provides superior low temperature curing, impact and abrasion resistance, and cures in the presence of moisture or humidity. Brushes on easily. Sold in 3 gallon kit containing 2 gallons of resin and 1 gallon of hardener. One 3 gallon kit can coat tanks of average size homebuilt. Used extensively on Lancairs and other homebuilts. Shelf life one year.
1 Gallon Kit ..... P/N 09-05368 ..... **$395.00**
3 Gallon Kit ..... P/N 09-42226 ..... **$1,314.00**

JEFFCO FUEL TANK SEALER

A 100% solids epoxy system. It contains no solvents and no corrosive or carcinogenic substances to assure low toxicity and ease of application. Provides superior low temp. curing, impact and abrasion resistance, and cures in the presence of moisture or humidity. Brushes on easily. One 3 gallon kit can coat tanks of average size homebuilt. **Note**: Jeffco Fuel Sealer 9700 FCR (Part Number: 09-42226) is made up of 2 parts. Part A and Part B. They both can be sold separately. Part A is Part number: 01-01062 and Part B is part number: 01-01063.3
Gal Kit ..... P/N 09-42226 ..... **$1,314.00**

PR-1005-L BUNA-N SLOSH COATING

A aircraft integral fuel tank slosh coating designed as a top-coat or barrier coating, cured to resist prolonged exposure to both jet fuel and aviation gas. It has a service temperature range from -100°F (-73°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). PR-1005-L is a one part, synthetic rubber solution.Suitable for application by brush, fill-and-drain, dip, or spray. It cures at room temp. Test results are in accordance with MIL-S-4383 specification test methods. Color: Red; Dry time(77°F): 20 mins.; non-toxic.
Pint ..... P/N 09-00323 ..... **$220.95**
Quart ..... P/N 09-00324 ..... **$432.00**

NYCOTE 7-11 CORROSION PROTECTION

Apply Nycote® 7-11 to metal surfaces that need protection from corrosive elements. The liquid formula can be easily applied by painting, spraying or dipping areas that need protection from aircraft fuels, oil, lubricants, phosphate ester hydraulic fluids, salt spray and water. Nycote® 7-11 also provides excellent high impact, abrasion resistance, flexibility and toughness at temperatures of -70°F to +300°F (-57°C to +149°C). Nycote® 7-11 has a six-month shelf life and the container can be resealed throughout. NSN: 8010-01-134-0415.
Clear ..... P/N 09-05322 ..... **$606.00**
Blue ..... P/N 09-05321 ..... **$791.00**

PR-1422 CLASS B FUEL TANK SEALANT SEMKIT - B2

PR-1422 Class B is an aircraft integral fuel tank sealant. It has a service range from -65F (-54°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing fuel tanks and other aircraft fuselage sealing applications. The cured sealant maintains excellent elastomeric properties after prolonged exposure to both jet fuel and aviation gas.
PR-1422 Class B is a two-part, dichromate cured poly-sulfide compound. The uncured material is a low sag, thixotropic paste suitable for application by extrusion gun or spatula. It cures at room temperature to form resilient sealant having excellent adhesion to common aircraft substrates.
6 oz. Kit ..... P/N 09-04703 ..... **$90.75**
2-1/2 Pint ..... P/N 09-04836 ..... **$234.95**
3 Pint ..... P/N 09-04835 ..... **$234.95**

PR-1428 CLASS B ACCESS DOOR SEALANT SEMKIT - B1/2

PR-1428 Class B is a low adhesive sealant. It has a service temperature range -65°F (-54°C) to 250°F (121°C), with intermittent excursions up to 250°F (135°C). The material is designed for use as an access door sealant or in the fabrication for form-in-place (FIP) gaskets. It can also be used to protect electrical wired, terminals and equipment against fuel moisture, dirt and short circuits.
PR-1428 Class B is a two-part, manganese dioxide cured, polysulfide compound. The uncured material is a low sag, thixotropic paste suitable for application by extrusion gun or spatula. It cures at room temperature to form a removable seal to common aircraft substrates.
P/N 09-04704 ..... **$151.75**

PR-1428 CLASS B ACCESS DOOR SEALANT SEMKIT - B2

PR-1428 Class B is a low adhesive sealant. It has a service temperature range -65°F (-54°C) to 250°F (121°C), with intermittent excursions up to 250°F (135°C). The material is designed for use as an access door sealant or in the fabrication for form-in-place (FIP) gaskets. It can also be used to protect electrical wired, terminals and equipment against fuel moisture, dirt and short circuits.
PR-1428 Class B is a two-part, manganese dioxide cured, polysulfide compound. The uncured material is a low sag, thixotropic paste suitable for application by extrusion gun or spatula. It cures at room temperature to form a removable seal to common aircraft substrates.
P/N 09-04706 ..... **$151.75**

DAPCO 2200 FIREWALL SEALANT

Dapco™ 2200 is an adhesive, solvent-free, thixotropic silicone paste. Dapco™ 2200 is most commonly used as a coating, sealant or filleting material in the construction, repair and maintenance of all types of aircraft. The product can be applied using a variety of methods and is especially useful where fire resistance, exposure to phosphate ester fluids, and/or exposure to extreme temperatures -65°F (-54°C) to 400°F (204°C) are major considerations. The product can also be used as an insulative and/or ablative heat shield. 6 OZ
Features: • Quick Cure • Excellent fire resistance to 2000° F • Service temperature of -65° F up to 400° F • Universal primerless adhesion to diverse substrates • Good resistance to aerospace chemicals • Offers non-inhibition curing characteristics against other sealants and adhesives • Non-volatile content of >97% • Qualified to BMS 5-63, AMS3374, and BAMS 552-004. ..... P/N 09-05254 ..... **$216.95**

NYCOTE 7-11 CORROSION PROTECTION PEN

For small precise jobs. The Nycotek™ applicator pen eliminates the mess and clean up of hazardous materials in addition to being easily disposable. It's perfect for small or hard to reach areas and one pen can cover two to four square feet. Easy-to-apply brush on with same corrosion resistant advantages as our Nycote® 7-11.
Clear ..... P/N 09-05324 ..... **$379.00**
Blue ..... P/N 09-05323 ..... **$380.00**

NSL AEROSPACE SEALANTS

NSL AEROSPACE ACCESS DOOR SEALANT WS8010 B 1/2

WS-8010 from Royal Sealants & Adhesives is an access door sealant intended for use on integral fuel tanks and pressurized cabins with low adhesion characteristics and excellent resistance to other fluids such as water, alcohols, synthetic oils and petroleum based hydraulic fluids.

2.5 oz.....P/N 09-05996 .....**$63.75**
6 oz.....P/N 09-05997 .....**$68.95**
Pint .....P/N 09-05998 .....**$121.75**
Quart.....P/N 09-05999 .....**$210.95**

NSL AEROSPACE ACCESS DOOR SEALANT WS8010 B 2

WS-8010 from Royal Sealants & Adhesives is an access door sealant intended for use on integral fuel tanks and pressurized cabins with low adhesion characteristics and excellent resistance to other fluids such as water, alcohols, synthetic oils and petroleum based hydraulic fluids.

2.5 oz.....P/N 09-06001 .....**$63.75**
6 oz.....P/N 09-06002 .....**$68.95**
Pint .....P/N 09-06003 .....**$121.75**
Quart.....P/N 09-06004 .....**$210.95**

NSL AEROSPACE AIRCRAFT WINDSHIELD SEALANT CS3247 B 1/2

CS3247 from Flamemaster is an aircraft windshield sealant intended for use when setting or repairing windshields and transparencies of glass, acrylic, or polycarbonate in composite or metal frames.
At room temperature, this two-part polysulfide cures to a flexible, resilient rubber.

2.5 oz.....P/N 09-06005 .....**$63.75**
6 oz.....P/N 09-06006 .....**$66.95**
Pint .....P/N 09-06007 .....**$129.75**
Quart.....P/N 09-06008 .....**$226.95**

NSL AEROSPACE AIRCRAFT WINDSHIELD SEALANT CS3247 B 2

CS3247 from Flamemaster is an aircraft windshield sealant intended for use when setting or repairing windshields and transparencies of glass, acrylic, or polycarbonate in composite or metal frames.
At room temperature, this two-part polysulfide cures to a flexible, resilient rubber.

2.5 oz.....P/N 09-06009 .....**$63.75**
6 oz.....P/N 09-06010 .....**$66.95**
Pint .....P/N 09-06011 .....**$129.75**
Quart.....P/N 09-06012 .....**$226.95**

NSL AEROSPACE ROYAL RAPID CURE FUEL TANK SEALANT WS8020RC B 1/2

WS-8020RC from Royal Adhesives & Sealants is a rapid cure fuel resistant sealant intended for use on integral fuel tanks with excellent resistance to other fluids such as water, alcohols, synthetic oils, and petroleum-based hydraulic fluids.

2.5 oz.....P/N 09-06013 .....**$26.95**
6 oz.....P/N 09-06015 .....**$33.50**
Pint .....P/N 09-06017 .....**$63.75**
Quart.....P/N 09-06018 .....**$110.75**

NSL AEROSPACE ROYAL RAPID CURE FUEL TANK SEALANT WS8020RC B 2

WS-8020RC from Royal Adhesives & Sealants is a rapid cure fuel resistant sealant intended for use on integral fuel tanks with excellent resistance to other fluids such as water, alcohols, synthetic oils, and petroleum-based hydraulic fluids.

2.5 oz.....P/N 09-06019 .....**$26.95**
6 oz.....P/N 09-06020 .....**$33.50**
Pint .....P/N 09-06021 .....**$63.75**
Quart.....P/N 09-06022 .....**$110.75**

NSL AEROSPACE CORROSION INHIBITIVE SEALANT WS-8070 B1/2

WS-8070 from Royal Adhesives & Sealants is a corrosion inhibitive sealant intended for filleting and faying surface sealing of aircraft structure to prevent the effects of corrosion from occurring through water intrusion and dissimilar metal interaction.

2.5 oz.....P/N 09-06026 .....**$51.75**
3.5 oz Fill .....P/N 09-06027 .....**$57.75**
Pint .....P/N 09-06028 .....**$129.75**
Quart.....P/N 09-06029 .....**$234.95**

NSL AEROSPACE CORROSION INHIBITIVE SEALANT WS-8070 B2

WS-8070 from Royal Adhesives & Sealants is a corrosion inhibitive sealant intended for filleting and faying surface sealing of aircraft structure to prevent the effects of corrosion from occurring through water intrusion and dissimilar metal interaction.

2.5 oz .....P/N 09-06030 .....**$51.75**
6 oz .....P/N 09-06031 .....**$57.75**
Pint .....P/N 09-06032 .....**$129.75**
Quart .....P/N 09-06033 .....**$234.95**

NSL AEROSPACE TANK SEALANT CS3204

CS3204 is a fuel resistant sealant for use on integral fuel tanks and pressurized cabins as well as other areas subject to contact with aircraft fuels, lubricants, oils, water and/or weathering. At room temperature, this two-part polysulfide cures to a flexible, resilient rubber.
Meets requirements of specifications AMS-S-8802 formerly MIL-S-8802, CMNP021, Lockheed, Gulfstream, Hughes Aircraft, Fairchild SPS 6-1 & 6-2

2.5 oz.....P/N 09-06023 .....**$23.85**
3.5 oz. Fill.....P/N 09-04612 .....**$35.50**
Pint .....P/N 09-06024 .....**$45.50**
Quart.....P/N 09-04648 .....**$124.75**
Kit 1 (2 oz. sealant).....P/N 09-38500 .....**$30.50**
Kit 2 (3.5 oz. sealant.....P/N 09-38510 .....**$35.50**
Kit 3 (16 oz. sealant).....P/N 09-05729 .....**$67.75**
Kit 4 (Quart sealant) .....P/N 09-06025 .....**$74.75**

Accessories

Nozzle for Pro-Seal Kits .....P/N 09-05742 ..... **$1.59**
Economy Sealant Mixer .....P/N 12-01792 .....**$25.95**

Discount Schedule: Less 10% on 12 kits, less 15% on 20 kits (may be assorted).

NSL DISPENSER RETRACTABLE RETAINER SA-100

The B&O model SA-100 is a pneumatic sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the SA-100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer. This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges.....P/N 09-06034 .....**$504.00**

NSL DISPENSER MANUAL RETRACTABLE RETAINER HP-SK 100

The B&O model HP-SK/100 and HP-SKA/100 is a sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the HP-SK/100 and HP-SKA/100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer. This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges.
P/N 09-06036 .....**$195.99**

NSL DISPENSER RETRACTABLE RETAINER SAN-100

The B&O model SAN-100 is a pneumatic sealant gun manufactured for the use of Semco and Techcon cartridges. Designed with a lightweight, retractable holder system, the SAN-100 does away with the standard steel tubed cartridge holders and can be used with or without the retainer.
This unique system only requires one cartridge holder to hold 2.5 oz, 5 oz, 6 oz, 8 oz and 12 oz cartridges. It is engineered for smooth dispensing, and the holder is designed to provide a full view of the cartridge, allowing the user to see the level of fluid inside the dispenser at all times .....P/N 09-06035 .....**$511.00**

AP

ACF-50 ANTI-CORROSION COMPOUND

ACF-50 is a state-of-the-art compound for controlling corrosion on aircraft electrical and avionics systems and airframes. ACF-50 is designed for owners of strut equipped Piper aircraft to comply with new Piper bulletin 5280C requiring lift strut inspection. ACF-50 kills the corrosion process with just one application and will last for 24 months. Microswitches, cannon plugs, and relays will remain corrosion free. Plus, ACF-50 will easily free seized nuts, screws and bolts. ACF-50 is qualified under Mil-C-81309E, and manufactured under ISO 9000 Certified Processes. Try ACF-50, you will be truly amazed at the results.

13 oz. Spray Can(HAZMAT) .....P/N 09-44350 .....**$16.50**
32 oz. Bottle .....P/N 09-00364 .....**$37.50**
4 Liter can.....P/N 09-44345 .....**$119.75**
20 Liter Pail .....P/N 09-00437 .....**$506.00**

CORROSION BLOCK

Corrosion Block is a clean fluid that actively protects metal using advanced polar bonding chemistry. Synthetic additives in Corrosion Block completely penetrate corrosion cells…replacing the salt water which is then allowed to evaporate. Corrosion Block's hydrophobic film remains to further protect the metal acting like an off-switch for corrosion.

4 oz. Pump .....P/N 09-02991 .....**$10.50**
12 oz. Aerosol .....P/N 09-02992 .....**$20.50**
4 Liter .....P/N 09-04079 .....**$94.75**
20 Liter .....P/N 09-02993 .....**$427.95**
32 oz. with spray .....P/N 09-02994 .....**$35.75**
114 Liter Drum.....P/N 09-04080 .....**$3,198.00**
205 Liter .....P/N 09-02995 .....**$3,586.00**
Case of 12 Aerosols.....P/N 09-02992-12 ....**$210.95**

CORROSION BLOCK GREASE

Multi Purpose High Performance Grease, Won't Soften, Breakdown or Wash Out. Formulation provides both high and low temperature performance. Strongly resists water wash out and provides superior protection against rust and corrosion. Corrosion Block Grease out performs lithium and most synthetic greases and meets or exceeds requirements for NLGI Service Classification GC-LB (automotive wheel bearing and chassis lubricants), which is based on ASTM D4950 performance requirements.

2 oz. Tube .....P/N 09-02987 .....**$6.50**
14 oz. Tube .....P/N 09-02989 .....**$10.50**
16 oz. Tub .....P/N 09-02990 .....**$12.50**

CORROSION X AVIATION

Corrosion X is an excellent penetrant, lubricant, and corrosion filter which confirms to Mil-C-81309E and is perfect for extended corrosion protection of airframes. It is also highly effective in protection of all components in the electrical / avionics systems. On existing corrosion, it penetrates oxidation, displaces lectrolyte and stops electrolysis. On corrosion free surfaces provides an ultra-thin barrier to guard against moisture intrusion and corrosion attack. Treatment lasts 2 years or more, and Corrosion X is non-toxic. Corrosion X is a highly recommend treatment for extending the life of airframes.

Aviation Formula			Original Formula		
Size	Part No.	Price	Size	Part No.	Price
16 oz. Spray	09-00296	**$31.50**	16 oz. Spray	09-00926	**$17.85**
16 oz. Aerosol	09-42220	**$31.50**	16 oz. Aerosol	09-00925	**$27.55**
1 Gallon	09-44225	**$170.80**	1 Gallon	09-04084	**$137.75**
5 Gallon	14-00672	**$590.00**	5 Gallon	09-04269	**$561.00**
30 Gallon	09-04086	**$3,169.00**	30 Gallon	09-04268	**$2,983.00**
55 Gallon	09-04085	**$5,467.00**	55 Gallon	09-04270	**$5,124.00**

CORROSION X PRESSURE SPRAYERS

Excellent for applying Corrosion X and require no special training to operate. Compact, convenient and easy to use, these sprayers have no moving parts and operates at 80 PSI shop air. Furnished with instructional video. Available in 3 sizes.

5 GALLON HANDI-SPRAY™

Required Air Pressure: 80 PSI @ 5 - 6 CFM Capacity: 5 gallons Weight: 28lbs Hose: 25' Color: Blue

Basic Unit Includes: 1" cricket wand, 3' x 1/4" 360° wand, 3' superflex wand.....P/N 09-00371 .....**$1,185.00**
Complete Unit Includes: 1" cricket wand, 3' x 1/4" 360° wand, 3' superflex wand, 8' x 1/4" 360° wand, 6' x 3/16" 45° fan wand, 5" x 1/8" hook wand.....P/N 09-00372 .....**$1,650.00**

BELT PACK - Required Air Pressure: 80 PSI @ 5 - 6 CFM Capacity: 1 quart Weight: 7lbs Hose: 3'

Basic Unit Includes: Pistol belt and holster, 1" cricket, 5" x 1/8" hook wand, 3' superflex .....P/N 09-00375 .....**$1,103.00**
Complete Unit Includes: Pistol belt and holster, 1" cricket wand, 3' x 1/4" 360° wand, 3' superflex wand, 8' x 1/4" 360° wand, 6' x 3/16" 45° fan wand, 5" x 1/8" hook wand.....P/N 09-00376 .....**$1,363.00**

CORROSION X HEAVY DUTY

CorrosionX Heavy Duty is for super long-term protection against serious rust and corrosion assault. For those really tough jobs where you need the ultimate protection against moisture, the answer is new CorrosionX Heavy Duty. There is no other product like it on the market today. It is a high performance, thick-film version of CorrosionX. It was developed specifically to provide maximum protection against moisture intrusion and resulting rust and corrosion. Recommended for use on boat trailers by Field and Stream.

12 oz. Aerosol.....P/N 09-00927 .....**$27.55**
1 Gallon.....P/N 09-04117 .....**$157.75**
5 Gallon.....P/N 09-04265 .....**$623.00**
30 Gallon.....P/N 09-04266 .....**$3,357.00**
55 Gallon.....P/N 09-04267 .....**$5,808.00**

CORROSION X RUST REMOVER

CorrosionX Rust Remover is a breakthrough in the nonhazardous removal of unwanted rust. Rust Remover eliminates surface rust from iron and steel without harmful fumes. It will not harm copper, brass, plastic, rubber or vinyl. It is also safe to use on painted surfaces for removal of 'bleeding' rust. Not for use on nonferrous metals. Once rust has been removed, it is important to treat metal with some kind of protective coating so that the clean metal surface does not re-rust. For this purpose we recommend neutralizing / rinsing the cleaned metal surface.

16oz. .....P/N 09-04273 .....**$25.55**
Gallon.....P/N 09-04645 .....**$41.50**

PAR-AL-KETONE

Black Bear Par-Al-Ketone is best known as one of the most rugged corrosion preventives available, performing successfully for over 40 years protecting aircraft components and machine parts in outdoor storage and for export.

Quart .....P/N 09-26800 .....**$81.75**

BOESHIELD™ T-9 CORROSION PROTECTANT

Developed this formula for long term protection of aircraft components. Penetrates to fasteners and fixtures, where it displaces moisture, and will even loosen rusted parts. Boeing recommends it for fuselage, wing, and tail structures, engines and cowlings, landing gear and gear wells, control linkages, and avionics. Dries to a clean waxy film. Lubricates and protects all metals for months. Safe on most paints, plastics & vinyls.

12 oz. Aerosol can.....P/N 09-01623 .....**$24.80**
4 oz Drip Can.....P/N 09-00378 .....**$13.75**
4 oz Spray Can.....P/N 09-00379 .....**$13.75**
Gallon Can.....P/N 09-01622 .....**$161.75**

DOW CORNING DC-4 COMPOUND

A grease-like silicone material which provides a moisture proof seal for ignition and electrical systems. More water repellent than waxes. Effective from -70° to 400° F. A low-loss dielectric. Meets spec. MIL-I-8860.

5.3 Oz.Tube .....P/N 09-27700 .....**$36.95**

ECK CORROSION COATING

Eck®-T, convenient liquid paste squeeze tube, ideal for small applications such as holes and on hardware. Comes with a screw-on nozzle attachment. Prohibits dissimilar metals from Electrolysis and Galvanic corrosion. Protects aluminum and stainless steel against electrolytic reaction, isolates dissimilar metals and gives bedding protection for hardware and fasteners. Eck® contains anti-seizing lubricant for threads. Eck® is dielectric and perfect for use with electrical connectors .....P/N 09-02138 .....**$15.95**

ACF-50 X HAND HELD SPRAY SYSTEM

The HAND HELD SPRAY SYSTEM is designed to turn ACF-50 into a dense fog. The equipment has been preset and factory tested to achieve this goal. The equipment is rugged and will provide years of service, with virtually no maintenance, provided reasonable care is taken with its use.

P/N 09-04053 .....**$1,140.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

SENSENICH COMPOSITE PROPELLERS

TRACTOR PROPELLERS

Engine	Speed	Model Number	Prop. Dia.	Spinner Dia.	Part Number	Price
Rotax 912/912S/914		2A1R5R75DN	75”-71”	12”	05-10605	**$2,556.00**
Rotax 912/912S/914		3B0R5R68CN	68”-62”	9.5”	05-10606	**$3,598.00**
Rotax 912/912S/914		2A0R5R64EN	64”-60”	8”-11.5”	05-10607	**$2,553.00**
Rotax 912/912S/914	Over 150	2A0J5R62HN	62”-58”	8”-11.5”	05-10608	**$2,429.00**
Jabiru 2200		2A0J5R64ZN	64”-60”	8”-11.5”	05-10609	**$2,733.00**
Jabiru 3300		2EKC72AE (Cont.)	72”-69”	9.5”	05-10610	**$4,113.00**
Continental O-200, Lycoming O-235	---	2EM6C72AE (Lyc.)	72”-69”	9.5”	05-10611	**$4,113.00**
Continental O-200, Lycoming O-235		2G0M7 2-Blade	72”-68”	13”	05-10612	**$4,948.00**
Lycoming O-320, O-360		2G0M8C72RG	72"-68"	13"	05-11909	**$4,948.00**
Lycoming O-360	---	3G0M8C72PG	72"-68"	13"	05-11910	**$5,652.00**

PUSHER PROPELLERS

Engine	Speed	Model Number	Prop. Dia.	Spinner Dia.	Part Number	Price
Rotax 912/912S/914	---	2A0R5L69EN	68”-64”	8”-11.5”	05-10614	**$2,429.00**
Rotax 912/912S/914		3B0R5L68CN	68”-62”	9.5”	05-10615	**$3,223.00**

AP

BLADES

(Must Specify Cutdown and Balance Weight)

Model	Description	Part No.	Price
R70DN-(), R75DN-()	2 Blade Rotax Tractor, Long Hub	05-10617	**$1,042.00**
R64EN-(), R70EN-()	2 Blade Rotax Tractor, Short Hub	05-10618	**$1,042.00**
L68CN-(), R68CN-()	3 Blade Rotax Pusher, Tractor	05-10619	**$911.00**
R62HN-()	Jabiru 2200 Tractor	05-10620	**$1,042.00**
L62PN-(), R64ZN-()	Jabiru 3300 Pusher, Tractor	05-10621	**$1,042.00**
L69EN-()	2 Blade Rotax Pusher, Short Hub	05-10622	**$1,042.00**
C72AE-()	2 Blade Continental O-200, Lycoming O-235	05-10623	**$1,732.00**
C72RG-()	2 Blade Lycoming O-320, O-360	05-10624	**$1,960.00**
C72PG-()	3 Blade Lycoming O-320, O-360	05-10625	**$1,581.00**

HUBS

Includes bolts and pitch change system

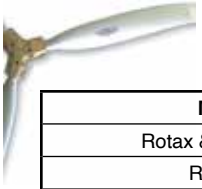
Model	Part No.	Price
Rotax, Jabiru	05-11028	**$1,194.00**
Rotax 3 Blade	05-11029	**$932.00**
2EK, 2EM6	05-11030	**$1,408.00**
2G0M7, 2G0M8	05-11031	**$1,077.00**
3G0M7, 3G0M8	05-11032	**$1,332.00**

PREMIUM SPINNERS

Specify Engine

Diameter	Part No.	Price
9.5”	05-10631	**$593.00**
13” (RV)	05-10632	**$897.00**

PROP EXTENSIONS



Includes spacer lugs. Extensions can be stacked for custom lengths.

Model	Part No.	Price
Rotax & Jabiru 1/2”	05-11039	**$103.75**
Rotax 1”	05-11040	**$131.75**
Rotax & Jabiru 1 3/8”	05-11041	**$172.75**
Rotax 1-1/2”	05-11042	**$187.75**
Rotax 1-3/4”	05-11043	**$200.75**
Rotax 2-1/4”	05-11044	**$227.95**
Rotax 3-3/16”	05-11045	**$282.95**

BOLT KITS

Model	Part No.	Price
Rotax, Jabiru Clamp	05-11033	**$48.50**
Rotax, Jabiru Mount	05-11034	**$48.50**
Rotax Extension Mount (Specify extension length)	05-11035	**$75.90**
2EK, 2EM6	05-11036	**$69.00**
2G0M7, 2G0M8	05-11037	**$103.75**
3G0M7, 3G0M8	05-11038	**$75.90**

HUB PARTS

Model	Part No.	Price
Pitch Cylinder	05-11046	**$117.75**
Pitch Stop	05-11047	**$20.70**
Extension Lugs (6)	05-11048	**$41.50**
Mount Lugs (6)	05-11049	**$55.75**
Hub Lugs (6)	05-11050	**$69.00**
Pitch Pin	05-11051	**$41.50**

SENSENICH COMPOSITE AIRCRAFT PROPELLERS

Sensenich composite propellers are available for a wide range of experimental aircraft engines such as the Rotax 912, 912S, 914, Jabiru 2200 and 3300, Continental 0-200, and Lycoming 0-235, 0-320, and 0-360. Replacement blades, hubs, bolt kits, extensions, and spinners are also available,
See www.aircraftspruce.ca for complete list of Sensenich products, part numbers and prices.

SENSENICH METAL PROPELLERS

Most popular models of Sensenich metal propellers are available in local stock for immediate shipment. Installation bolt kit is furnished with each propeller. Attaching kit for flange shaft will be packed for all Continental installations unless taper shaft installation is specified. Propellers may be shipped via UPS. Partial List - Request Prices on Unlisted Models. Approximate Shipping Weight 40 Lbs.

Aircraft Model*	Engine	Standard Prop	Climb Prop	Cruise Prop
Aeronca 11AC	Continental A-65	74CK-0-46	---	---
Beech Model 23	Lycoming O-320 (160 hp)	74DM6-0-60	74DM6-0-56	---
Bellanca 7EC, 7FC, 7JC	Continental C-90	76AK-2-46	76AK-2-44	76AK-2-48
Cessna 120, 140	Continental C-85	76AK-2-44	76AK-2-42	---
Cessna 150 thru 150K	Continental O-200	69CK-0-52	---	---
Cessna 152	Lycoming O-235 (110 hp)	72CKS6-0-56	72CKS6-0-54	---
Cessna 172 thru 172C	Continental O-300C, D	74DC-0-56	---	---
Cessna 170	Lycoming O-360 (180 hp)	76EM8S5-0-56	76EM8S5-0-54	76EM8S5-0-60
Cessna 172 Avcon Conv.	Lycoming O-360 (180 hp)	76EM8S5-0-56	---	---
Cessna 172, 172A	Lycoming O-360 (180 hp)	76EM8 series	---	---
Cessna 177	Lycoming O-360 (180 hp)	76EM8 series	---	---
Piper J3C65, L4, Cub	Continental A-65	74CK-0-46	74CK-0-44	---
Piper PA-11, Cub, J4A	Continental A-65	74CK-0-46	74CK-0-44	---
Piper PA-11, PA-18, Cub	Continental C-90	76AK-2-42	---	76AK-2-46
Piper PA-18 Super Cub	Lycoming O-235-C1	76AM6-2-44	---	
Piper PA-18 Super Cub	Lycoming O-320 (150 hp)	74DM6-0-56	74DM6-0-54	74DM6-0-58
Piper PA-20 Pacer	Lycoming O-235-C1	76AM6-2-50	76AM6-2-48	76AM6-2-52
Piper PA-22-108 Colt	Lycoming O-235-C1B	76AM6-2-48	---	76AM6-2-50
Piper PA-20, PA-22	Lycoming O-290-D (125 hp)	74DM6-0-56	74DM6-0-54	---
Piper PA-22	Lycoming O-320 (150 hp)	74DM6-0-60	74DM6-0-58	---
Piper PA-28-140 Cherokee	Lycoming O-320 (150 hp)	74DM6-0-60	74DM6-0-58	---
Piper PA-38 Tomahawk	Lycoming O-235 (112 hp)	72CK-0-56	---	---
Piper PA-28 140, 4 Cherokee	Lycoming O-320 (150 hp)	74DM6-0-58	74DM6-0-56	---
Piper PA-28 150 Cherokee B	Lycoming O-320 (150 hp)	74DM6-0-58	74DM6-0-56	---
Piper PA-28 151 Warrior	Lycoming O-320 (150 hp)	74DM6-0-58	---	---
Piper PA-28 151 Warrior/160	Lycoming O-320 (160 hp)	74DM6-0-60	---	---
Piper PA-28 160 Cherokee B	Lycoming O-320 (160 hp)	74DM6-0-60	---	---
Piper PA-28 180 Archer	Lycoming O-320 (180 hp)	76EM8S5-0-60	---	---
Piper PA-28 180 Cherokee C	Lycoming O-320 (180 hp)	76EM8S5-0-60	---	---
Piper 181 Archer II ('78)	Lycoming O-320 (180 hp)	76EM8S5-0-62	---	---
Pitts Special S1S and S2	Lycoming I0-360	76EM8-0-56 to -61	---	---
Taylorcraft BC65, BCD12D	Continental A-65	74CK-0-48	74CK-0-46	---
Taylorcraft BC12D85, 485, 19	Continental C-85	74CK-2-46	74CK-2-44	---
Stoddard Hamilton Glasair ITD, FT,RG	Lycoming O-320 (160 hp)	---	---	---
Stoddard Hamilton Glasair IITD, FT,RG	Lycoming O-320 (160 hp)	---	---	---
Stoddard Hamilton Glasair IIITD, FT,RG	Lycoming O-320 (160 hp)	---	---	---
Tri-R (KIS)/116	Lycoming O-235-L2C	---	---	---
Van's RV-3/150, RV-4/150	Lycoming O-320 (150 hp)	---	---	---
Van's RV-3/160, RV-4/160	Lycoming O-320 (160 hp)	---	---	---
Van's RV-6/RV-6A150	Lycoming O-320 (150 hp)	---	---	---
Van's RV-6/RV-6A160	Lycoming O-320 (160 hp)	---	---	---
Zenith CH-2000/116	Lycoming O-235 (116 hp)	72CK-0-46	---	72CK-0-48
Zenith CH-2000A/150	Lycoming O-320 (150 hp)	74DM6S5-0-58	---	---
*All models listed are land planes.				

PLEASE SEE OUR WEBSITE OR CALL FOR QUOTE.

SENSENICH FLIGHT PERFORMANCE ALUMINUM PROPS FOR VANS AIRCRAFT

For the Lycoming 0-235 (125 HP): 72 CK Series Propeller..... 72 CK Series Propeller.....P/N 05-01468..... **$7,182.00**

Both Systems Include:

- High Performance Fixed-Pitch Aluminum Propeller
- Attaching Hardware Included
- A full 2" dia. reduction allowed for repairs
- Propeller system that can be serviced anywhere.
- Aluminum Propeller Extension Included
- 2 yr or 200hr warranty (whichever comes first)
- Personalized service

Specify aircraft model, engine, & pitch (standard, climb, or cruise) when ordering. Also available for Murphy Rebel, Elite, Glasair, Thorp T-18, Tri-R, Midget Mustang, & many other homebuilts.

SENSENICH ALUMINUM PROP BOLT KITS

These propeller bolt kits for Sensenich aluminum propellers include the bolts and washers for propeller attachment.

Propeller Application	Bolt Kit Part No.	Price	Propeller Application	Bolt Kit Part No.	Price
69CK	AN6H-37AS	**$339.00**	74DM6	BK74DM6	**$343.00**
72CK	AN6H-37AS	**$339.00**	76AM6	AN6H-33AS	**$394.00**
74CK	AN6H-32AS	**$409.00**	76EM8	AN8H-46AS	**$478.00**
76AK	AN6H-32AS	**$409.00**			

PROPELLER BUSHINGS

SENSENICH A-437 For installations with Continental taper shaft. 5/8" O.D. x 3/8" I.D. x 1/2" Long. Set of 6 .....P/N 05-01127 ..... **$50.75**

MCCAULEY A-1170 5/8" O.D. x 3/8" I.D. x 11/16" Long. Set of 6 .....P/N 05-01128 ..... **$267.95**

SENSENICH PROPELLER FOR CESSNA 172'S

This propeller is STC's for Cessna 172's I thru P using Lycoming 0-320 series engines. It is available in pitches of 56 to 60 and no spinner change is required. Features a full 2 inch diameter reduction. Model 74DM7S14-0-56-60 (Specify pitch)..... **$2,562.95**

PROPELLERS

SENSENICH WOOD PROPELLERS

Original equipment on Piper, Aeronca, Taylorcraft, Cessna, Ercoupe, Fairchild, and others. Metal tipping and high lacquer finish. Bolts and mounting plates not included. 18 lbs. each. FAA approved for certificated aircraft. Also excellent for experimental aircraft. Aircraft Spruce is an authorized Sensenich factory distributor. *Props w/asterisk are most commonly used props & are normally in stock for immediate shipment.

STANDARD PROP

Aircraft Models	Engine	Stnd. Prop	Part No.	Price	Climb Prop	Part No.	Price
Aeronca 7AC, 11AC, 11ACS	Cont. A65	W72CK-42	05-W72CK-42	**$3,129.00**	W72CK-40	05-00583	**$3,129.00**
		W72CK-44	05-W72CK-44	**$3,148.00**	---	---	---
Cessna 120, 140	Cont. C85	W74FK-45	05-01808	---	W74FK-44	05-01809	**$4,694.00**
Commonwealth 185	Cont. C85	W74FK-44	05-01809	**$4,694.00**	---	---	---
Luscombe 8A	Cont. A65/C65	W76CK-42	05-01810	**$4,274.00**	W76CK-40	05-01821	**$4,167.00**
Piper J-3, J-4A, PA-11, A-17	Cont. A65/C65	W72CK-42	05-W72CK-42	**$3,129.00**	W72CK-40	05-00583	**$3,129.00**
Piper J-3 (Duster)	Cont. A75	W70DK-40	05-01811	**$3,588.00**	---	---	---
Piper J-4E	Cont. A75	W70DK-42	05-01812	**$3,413.00**	---	---	---
Piper J-4F, PA-15	Lyc. O-145B	W70LY-36	05-01813	**$3,893.00**	---	---	---
PA-14, PA16, PA-18, PA-20	Lyc. O-235C1	W74FM-49	05-01814	**$4,692.00**	W74FM-47	05-01819	**$4,692.00**
PA-20, PA-22 125,135	Lyc. O-290D/D2	W74FM-54	05-01815	**$4,692.00**	---	---	---
PA-18, PA18A	Lyc. O-290D/D2	W74FM-49	05-01814	**$4,692.00**	W74FM-47	05-01819	**$4,692.00**
T-Craft BC65, BC1265	Cont. A65	W72CK-42*	05-W72CK-42	**$3,129.00**	---	---	---
L2, D65, DC065	---	---	---	---	---	---	---
T-craft BC12D	Cont. A65	W72CK-42	05-W72CK-42	**$3,129.00**	W72CK-40	05-00583	**$3,129.00**
BC12D1	---	---	---	---	---	---	---
Stinson 10, HW75	Cont. A70	W70Dk-40	05-01811	**$3,588.00**	---	---	---

MCCAULEY MET-L-PROPS

Original equipment on most Cessna aircraft and popular with owners of many other designs. McCauley has earned an enviable reputation for producing high-performance propellers. Most popular numbers are available from local stock. The Met-L-Prop number designates the model, diameter and pitch. Example: CM7150 is a model CM propeller with a 71 inch diameter and 50 inch pitch. When ordering a new prop which requires a doweled spacer, both spacer and bolt kit are included. Spacers and bolt kits may also be ordered separately. When ordering, specify whether engine has a tapered or flanged crankshaft. Tapered crankshaft requires Kit No.B-4622-6. Flanged crankshaft requires Kit No.B-4622-9. Elliptical tip models 1A90/CF and square tip models 1B90/CM having the same diameter and pitch are directly interchangeable except for CF7538 on Cessna 150G, H, J and K model seaplanes.

Aircraft Model	Engine	Standard Prop	Cruise Prop	Climb Prop
Beech A23-24	Lyc.I0-360-A2B, A2D	BFA7762+	---	---
Bellanca 7ECA	Cont. 0-200A	ACM6948+	---	---
Bellanca 7ECA	Lyc. 0-235-C2C	CLM7246+	CLM7250	---
Bellanca 7GCA	Lyc. 0-320-A2B	GM7452	GM7455	GM7450
Cessna120,140	Cont. C-85	CM7148	CM7150	CM7146
Cessna120,140	Cont. C-90	CM7152	CM7154	---
Cessna 150A-F	Cont. 0-200A	MCM6950	---	---
Cessna150G-K	Cont. 0-200A	DCM6948	DCM6950	---
Cessna 150L	Cont. 0-200A	OCM6948+	---	---
Cessna 170A, B	Cont. C-145	MDM7655	MDM 7656	MDM7653
Cessna 172	Cont. 0-300A, B	MDM 7653	MDM7655	MDM7652

Aircraft Model	Engine	Standard Prop	Cruise Prop	Climb Prop
Cessna 172A-H	Cont. 0-300C, D	EM 7653	EM7655	EM7652
Cessna172I, K, L	Lyc. 0-320E2D	DTM7553+	---	---
Cessna 175	Cont. G0-300A, C	MFC8467	---	---
Cessna 175A,B	Cont. G0-300C, D	MFC8467	---	---
Cessna 177	Lyc. 0-320-E2D	TM7653+	---	---
Cessna 177A	Lyc. 0-360-A2F	EFA7656+	---	---
Great Lakes	Lyc. 0-320-E2A	EGM 7654	---	---
Luscombe 8A	Cont. A-75	CM7447	CM7449	---
Piper J3 Cub	Cont. C-85	CM7144	CM7146	---
Piper PA-18, 18A	Lyc 0-290-D2	GM8241`	---	---
Piper PA-32	Lyc.0-540-F4B5	PFA8266+	---	---

Applications for some Popular McCauley Props. All Models Available. Prices are the same for all props with the same letter prefix.

PLEASE SEE OUR WEBSITE OR CALL FOR QUOTE.

PROPELLERS

PRINCE AIRCRAFT COMPANY P-TIP PROPS

WOOD P-TIP PROPELLER - Before the "Carbon Fiber P-TIP Propeller", this had been considered one of the most efficient and lowest noise propellers available; the only wood/carbon fiber anti-vortex droop tipped propeller in the world. This propeller is a wood, fixed pitch propeller that relies on the forward pull of the propeller to automatically provide pitch change proportional to the amount of force being applied to the propeller disk. When a propeller operates at a slower airspeed than its maximum capabilities, it has a proportional pull in relation to the velocity of forward motion, so at takeoff and climbing condition the propeller will have its largest forward pull. Due to the scimitar shape, the tip of the propeller cones forward, as the coning angle changes the propeller will lessen pitch that provides shorter takeoffs and higher rates of climb. As the propeller increases in forward speed the disk pressure is reduced, this forces the propeller to increase pitch and top speed. This change in pitch is approximately four inches from takeoff to cruise. The droop P-TIP is to control the air spillage over the propeller tip that delays the tip vortices which cause drag and turbulence within the propeller arc. A propeller, like a wing, works best when it has unturbulated air over the airfoil sections. The P-TIP delays the vortices, the propeller then has smooth air to provide best thrust and a pronounced reduction in propeller noise.
Additional benefit of the P-TIP design is the volume of air the propeller produces. When air flows through a standard tip propeller design, the airflow at the tip will flow over the propeller tip. As soon as it passes the tip it will tuck down behind the propeller blade giving a cone of air from the propeller smaller than the propeller diameter. For example, a 72" diameter propeller without a P-TIP will give a volume of air from the propeller of approximately 68" of diameter; a P-TIP propeller will provide 72" of air volume. This means that a 68" P-TIP will give the same volume of air as a standard tip 72" propeller. By reducing propeller diameter there is less frontal area or flat plate drag of the aircraft. Higher top speeds are the result without sacrificing takeoff or climb.
Your benefit is a lightweight, pitch changing propeller that will give you the best of short takeoff, maximum cruise, and more flying enjoyment in a quieter cockpit.

AP

COMPOSITE P-TIP PROPELLER - Composite P-Tip Props retain the same qualities of the wood P-TIP but are more efficient and durable. Prince uses the reliable time proven wood core of hard maple, then completely encloses the blades in multiple layers of high tensile strength composites. The hardwood core absorbs the dangerous harmonic vibrations and benefits your airframe by smoothing the engine power pulses, and the composite wrapping allows the airfoils sections to be thinner, reducing drag while increasing durability and locks each blade into operating at precise angles. The best working propeller is one that is rigid enough to allow all blades to move alike, thin at the cord section to eliminate as much drag as possible, and strong enough to satisfy the large amounts of stress required during flight. Urea Formaldehyde adhesive meets Military Specifications to insure reliable operation and trouble free flying for the life of the propeller. Propellers are finished in a metal prop gray color, this shade will match nearly every paint scheme, the Durability and Ultrahigh Gloss finish is a two-part Urethane, machine buffed to achieve a propeller that reflects the quality of manufacturing like no other propeller available.

Note: Request Prince Propeller order form at time of order we will fax or mail form to you to complete to insure correct propeller is furnished for you application.

APPLICATION CHART

Aircraft	Engine	HP	Dia./ Pitch	Hub Thickness	Price Schedule
Acro Sport	0-320	150	71/48	3.7	F
Avid Flyer	Rotax 503	52	68/34	2.1	B
	Rotax 532	64	71/35	2.1	B
Baby Great Lakes	C-80A	80	66/48	3.25	F
Cozy	0-320	150	68/72	3.7	F
	0-320	160	68/74	3.7	F
	0-360	180	68/76	3.7	F
Dragonfly	1834VW	60	52/45	2.75	D
	2100VW	82	52/48	2.75	D
Glasair	0-320	150	68/72	3.7	F
	0-320	160	68/74	3.7	F
	0-360	180	68/76	3.7	F
	0-540	270	69/113	3.7	F
Glass Goose	0-320	150	64/62	3.7	E
	0-320	160	64/64	3.7	E
Kitfox	Rotax 503	46	68/30	2.1	B
	Rotax 912	80	68/47	2.25	B
KR-2	1835 VW	55	52/48	2.75	D
	2100 VW	80	52/50	2.75	D
	Subaru	75	53/68	3.7	D
Lancair	0-200	100	58/68	3.7	E
	0-235	118	58/68	3.7	E
	0-290	140	60-72	3.7	E
	0-320	150	62/72	3.7	E
	0-320	160	62/74	3.7	E
	0-360	180	68/76	3.7	F

LOW HORSE POWER PROPS

(Ultralight Type) Schedule		Composite P-Tip	Composite P-Tip
A	Up to 54"	**$8.00**	**$12.20**
B	55"-110"	**$8.50**	**$12.75**

HIGH HORSEPOWER PROPS

Composite Schedule		Composite P-Tip	Composite P-Tip
C	Up to 45"	**$12.50**	**$18.65**
D	46"-55"	**$13.00**	**$19.20**
E	56"-65"	**$15.50**	**$23.10**
F	66"-110"	**$16.40**	**$24.40**

PRINCE AIRCRAFT PROPELLER ORDERING INFORMATION

HOW TO DETERMINE COST

1. Select style and price, P-TIP or Composite P-TIP propeller.
2. Multiply propeller diameter times price per inch, e.g.:
High Horsepower 68" dia. P-TIP propeller, 68 x 13.51 = **$918.68**,
Composite P-TIP 68 x 18.48 = **$1256.64**
3. Add Leading Edge Protectors, if required.

MULTI-BLADE PROPS

Three-Blade..... 2 Blade rate x 3 Four-Blade ..... 2 Blade rate x 4

LEADING EDGE PROTECTOR

Up to 48" diameter ..... **$61.00** 49" - 110" **$83.00**

CALL FOR QUOTE ON ALL PRINCE AIRCRAFT PROPELLERS.

HARTZELL PROPELLER HARDWARE

HARTZELL ENGINE TECHNOLOGIES
MONTGOMERY, ALABAMA USA

Description	Part No.	Price	Description	Part No.	Price
Hartzell Prop O-Ring C-3317-228	05-11998	**$7.50**	Hartzell Prop Screw B-3845-8	05-12001	**$1.94**
Hartzell Prop O-Ring C-3317-230	05-12380	**$8.99**	Hartzell Prop O-Ring C-3317-028	05-12509	**$10.50**
Hartzell Prop Fiber Washer A-1020	05-11999	**$1.32**	Hartzell Propeller Nut B-3808-4	05-21990	**$6.50**

POWERFIN COMPOSITE PROPELLERS

Powerfin is the only composite propeller manufacturer in the U.S. to offer a true Clark-Y airfoil which optimizes surface airfoil for thrust. Powerfin also allows for infinite pitch range with any increment. The pitch alignment tool supplied with every Powerfin takes the guesswork out of pitching your prop. Simply set the stop screw, clamp the tool to the hub, and turn the blade to the stop. The process takes less than 10 minutes for a 3 bladed prop. Powerfin features include superior aerodynamics, noise reducing tips, superior composite construction, very strong low profile hub, durable finish, 2 and 3 blade configurations, fits Rotax 75MM bolt pattern, adapters for every bolt pattern, 32" to 72" diameter, leading edge protection, speed set hub and a two year factory warranty against defects. Weight is 6.5 lbs. for 2 bladed Powerfin and 9.0 lbs. for 3 bladed Powerfin. Complete brochure available on request.

Model B

General use propeller although specifically designed to run significantly smaller diameters than most other props. The B-Model runs very well on a 582/2.58 as a three blade 60" for example, and can out produce our competition even when running much smaller diameters. Maximum possible diameter with this model is 65".

MODEL C

Designed specifically for powered parachutes as a three blade 64" on a Rotax 582/2.58, this design works well on Rotax 447's through Rotax 618 as well as the Hirth engines that fall between 40 and 80 horsepower. This is the propeller being sold as standard equipment on 6 of the top 7 ppc's. Maximum possible diameter with this model is 69".

MODEL E

This is our smallest propeller - designed for engines between 15 and 30 horsepower. These narrow blades allow for a maximum possible diameter of 53". Backpack ppc's are the target of this design although the blade has been proven very efficient on many older, fixed wing airplanes with diameter restrictions. This is the ONLY pitch adjustable prop available to backpack units.

Model F

This is our largest propeller - designed for larger two-stroke engines that use the higher gear reduction ratios and horsepower up to 115. This prop runs beautifully on a Rotax 503/3.47 as a three blade 66"-70". A two place Kolb can't squeeze any more efficiency out of a 503/3.47 than with our F-model 68" prop. This prop is also the finest prop available for the Rotax 912, 912S, and 914 engines. Maximum possible diameter with this model is 75".

2 Hubs **3 Hubs** **4 Hubs** **5 Hubs**

To calculate the cost of a full propeller assembly, take the price for a single blade times the number of blades you need. Then add the cost of the hub you need.
The cost of each type of blade is the same regardless of the diameter.
For example: A three blade C-model propeller assembly will include three C-model blades ($420) and a standard three blade Apex hub ($195). The total is $620. All hub assemblies* include mounting hardware, optional locknuts for Rotax engines, and a 1/4" dowel pin used for setting the pitch.

BLADES

Blade Model	Part No.	Single Blade Price
B-Model	05-06962	**$373.00**
C-Model	05-06963	**$344.00**
E-Model	05-06964	**$441.00**
F-Model	05-06965	**$414.00**

***All propeller and hub assemblies include mounting hardware for the Rotax A, B, C, or E box or the Hirth gearbox.**

HUB ASSEMBLIES*

Hub Type	For Blade Models	Part No.	Price
Special Three Blade Apex	E	05-06973	**$401.00**
Standard Two Blade Apex	B, C, & F	05-06966	**$413.00**
Standard Three Blade Apex	B, C, & F	05-06967	**$441.00**
Standard Four Blade Apex	B, C, & F	05-06968	**$477.00**
Standard Five Blade Apex	B, C, & F	05-06969	**$478.00**
Rotax 912 Three Blade Apex	B, C, & F	05-06970	**$490.00**
Rotax 912 Four Blade Apex	B, C, & F	05-06971	**$510.00**
Rotax 912 Five Blade Apex	B, C, & F	05-06972	**$550.00**

Shipping a two or three blade propeller assembly is $20.00. These prices are for all U.S. customers excluding Alaska and Hawaii. Most international orders will ship U.P.S. International - Expedited Service. If you wish a quote on an international order, please supply an address with a postal code so we can quote shipping prices.

INFLATABLE DOOR SEAL KITS

The Economy Manual version is a door mounted pressure bulb which is manually pumped by the pilot. Deluxe Manual remote locates the pressure pump underneath the panel next to the pilot along with a panel mounted pressure switch. The Electric version incorporates an electrically operated pump which maintains pressure by flipping a panel mounted switch.
Bob Fields Aerocessories was established vin 1975 providing inflatable door seals for over 45 years! Inflatable doors seals are made of a highly engineered vulcanized silicone rubber compound that will last for decades. All of our products are FAA-PMA approved and made in the USA. Our door seals are simple to install and can eliminate costly door adjustments and rigging labor costs due to their highly flexible and conforming values when inflated. It truly is an investment that can last a lifetime for your aircraft.
Bob Fields Aerocessories inflatable door seals are the only door seal that adds value to your aircraft. This seal provides a real return on investment when the time comes to sell your aircraft.

Model No.	Description	Aircraft Model	Version	Part No.	Price
3920-3	Electric Inflatable Door Seal For Mooney M20A Through K	Mooney M20A THROUGH K	Electric	05-26404	**$2,415.00**
3920-3-7	Deluxe Manual Inflatable Door Seal For Mooney M20A Through K	Mooney M20A THROUGH K	Deluxe Manual	05-26405	**$1,060.00**
3920-3-8	Economy Manual Inflatable Door Seal For Mooney M20A Through K	Mooney M20A THROUGH K	Economy Manual	05-26406	**$870.00**
8301-5	Electric Inflatable Door Seal For Bellanca	Bellanca	Electric	05-26407	**$2,415.00**
8301-4D	Deluxe Manual Inflatable Door Seal For Bellanca	Bellanca	Deluxe Manual	05-26408	**$1,091.00**
8301-D	Economy Manual Inflatable Door Seal For Bellanca	Bellanca	Economy Manual	05-26409	**$870.00**
3920-2	Electric Inflatable Door Seal For Piper PA-28 -32 -34 Front	Piper PA-28 -32 -34 - Front Cabin Only	Electric	05-26410	**$2,415.00**
3920-2-7	Deluxe Manual Inflatable Door Seal For Piper PA-28 -32 -34 Front	Piper PA-28 -32 -34 - Front Cabin Only	Deluxe Manual	05-26411	**$1,091.00**
3920-2-8	Economy Manual Inflatable Door Seal For Piper PA-28 -32 -34 Front	Piper PA-28 -32 -34 -Front Cabin Only	Economy Manual	05-26412	**$1,008.00**
3920-2R	Electric Inflatable Door Seal For Piper PA-32 & 34 Front & Rear	Piper PA-32 -34 - Front And Rear Doors	Electric	05-26413	**$3,188.00**
3920-2-7R	Deluxe Manual Inflatable Door Seal For Piper Pa-32 & 34 Front & Rear	Piper PA-32 -34 - Front And Rear Doors	Deluxe Manual	05-26414	**$1,836.00**
3970	Electric Inflatable Door Seal For Piper Pa-24 -30 -39	Piper PA-24 -30 -39	Electric	05-26415	**$2,622.00**
3970-8	Deluxe Manual Inflatable Door Seal For Piper PA-24 -30 -39	Piper PA-24 -30 -39	Deluxe Manual	05-26416	**$1,222.00**
3970-9	Economy Manual Inflatable Door Seal For Piper PA-24 -30 -39	Piper PA-24 -30 -39	Economy Manual	05-26417	**$891.00**
3950-4	Electric Inflatable Door Seal For Beechcraft - Front Cabin Only	Beechcraft - Front Cabin Only	Electric	05-26418	**$2,512.00**
3950-4-6	Deluxe Manual Inflatable Door Seal For Beechcraft - Front Cabin Only	Beechcraft - Front Cabin Only	Deluxe Manual	05-26419	**$1,187.00**
3950-4-7	Economy Manual Inflatable Door Seal For Beechcraft - Front Cabin Only	Beechcraft - Front Cabin Only	Economy Manual	05-26420	**$966.00**
3950-4R	Electric Inflatable Door Seal For Beech 36-58 - Front And Rear Doors	Beech 36-58 - Front And Rear Doors	Electric	05-26421	**$3,478.00**

WARP DRIVE ADVANCED COMPOSITE PROPELLERS

Warp Drive's Advanced Composite Carbon Fiber propeller has a structural strength near that of metal propellers. Because of the stiffness achieved by using carbon fibers, the prop will do very little coning (bending forward) under power. Proper fiber placement allows the prop to flex torsionally for maximum cruise efficiency. The strongly fixed position of the blades along with optimum torsional performance translates into more thrust than conventional propellers.

The interior structure of this new propeller is all carbon fiber - no fiberglass, no foam, no filler - an all carbon fiber matrix combined with top quality hybrid epoxies. Carbon fiber is one of the strongest building materials available. When properly engineered, carbon fiber can achieve the strength and stiffness of a metal part, as demonstrated by its wide range of industrial and aerospace uses.

WARP DRIVE PROPELLER BLADE TYPES

All propellers and blade types are available with Stainless Steel Leading Edge protection as an option at additional cost.

1. STANDARD ADVANCED COMPOSITE CARBON FIBER BLADES
   The Standard Carbon Fiber Blades can be used on Rotax, Arrow, VW and similar engines.
2. HIGH HORSE POWER ADVANCED COMPOSITE CARBON FIBER BLADES
   The Carbon Fiber HP Blades will be required for use on Lycoming, Continental and some auto conversion engines.

WARP DRIVE HUBS

Warp Drive offers two types of hubs of our propellers. First is our Standard Hub. This is an assembly of anodized aluminum plates and composite clamping blocks. It accommodates standard and custom hub bolt patterns of up to 3 1/8".

The second type of hub is the HP Hub. This hub consists of two halves machined from solid aluminum. It is the same weight as the standard hub assembly and can accommodate Rotax, Arrow, VW, SAE I Continental, SAE II Lycoming and custom bolt patterns.

STANDARD CARBON FIBER PROPELLER

2-Blade Std Carbon Fiber Propeller.....P/N 05-31920 .....**$782.00**
3-Blade Std Carbon Fiber Propeller.....P/N 05-31925 .....**$1,049.00**
4-Blade Std Carbon Fiber Propeller.....P/N 05-31930 .....**$1,466.00**
Replacement Std Carbon Fiber Blade .....P/N 05-31935 .....**$316.00**

WITH HP HUB

2-Blade Std.....P/N 05-31940 .....**$1,098.00**

HIGH HORSE POWER CARBON FIBER PROP WITH HP HUB

2-Blade Carbon Fiber H/P w/HP Hub .....P/N 05-31950 .....**$1,342.00**
3-Blade Carbon Fiber HP w/HP Hub .....P/N 05-31955 .....**$2,032.00**
Replacement Carbon Fiber HP .....P/N 05-31960 .....**$500.00**
Mounting Hardware (Rotax) .....P/N 05-31965 ..... **$30.50**
Protractor.....P/N 05-31970 .....**$71.75**
Non-Standard Hub Pattern.....P/N 05-31975 .....**$65.75**
"HP" Hub (purchased separately) .....P/N 05-31985 .....**$615.00**

ORDERING A PROPELLER

We request all applicable information below when you are ordering:

1. Name, Address, Phone Number(s)
2. Vehicle - type, make, model, cruise speed, tractor/pusher,
3. Engine - make, horse power,
4. Reduction Drive - type, ratio. If there is no reduction drive, (State Prop RPM)
5. Hub Requirements - A) Bolt circle dia, B) Number of bolts, C) Bolt dims, D) Center hole dims, E) Drive lug dimensions (if applicable),
6. Propeller Description-rotation, diameter, structural limitation of diameter manufacturer's suggested prop description, no. of blades, tractor or pusher.

QUICK ADJUST SYSTEM IVOPROPS

The Quick Adjust System Ivoprops allow you to adjust the pitch on the ground in a matter of seconds by turning the screw adjustor in the center of the prop. Specify aircraft and engine make and model, and propeller diameter. • Magnum Ivoprop (5.5" cord, 58" to 76" diameter) is a high-horsepower version for engines up to 700 HP.
• Magnum Paddle Ivoprop (5.5" constant cord, 58" to 84" diameter" is for high-horsepower air boats and bush planes.

Note: Not Recommended for Lycoming Powered Aircraft.

Description	Part No.	Price
1 Blade Ultralight Standard Lefthand	15-05478	**$311.00**
1 Blade Ultralight Standard Righthand	15-05856	**$310.00**
1 Blade Ultralight Hi-Pitch Lefthand	15-05477	**$311.00**
1 Blade Ultralight Hi-Pitch Righthand	15-06638	**$310.00**
2 Blade Ultralight Standard Lefthand	15-04749	**$794.00**
2 Blade Ultralight Standard Righthand	15-06312	**$787.00**
2 Blade Medium Standard Lefthand	15-08279	**$1,300.00**
2 Blade Medium Standard Righthand	15-07899	**$1,314.00**
2 Blade Ultralight Hi-Pitch Lefthand	15-06932	**$809.00**
2 Blade Ultralight Hi-Pitch Righthand	15-06933	**$808.00**
3 Blade Ultralight Standard Lefthand	15-04785	**$864.00**
3 Blade Ultralight Standard Righthand	15-06326	**$1,069.00**
3 Blade Medium Standard Lefthand	15-06325	**$1,694.00**
3 Blade Medium Standard Righthand	15-04784	**$1,694.00**
3 Blade Ultralight Hi-Pitch Lefthand	15-06972	**$1,074.00**
3 Blade Ultralight Hi-Pitch Righthand	15-07224	**$1,069.00**
6 Blade Ultralight Standard Lefthand	15-08274	**$2,128.00**
6 Blade Ultralight Standard Righthand	15-08275	**$2,128.00**

IN-FLIGHT ADJUSTABLE PITCH IVOPROPS

The In-Flight Adjustable Pitch Ivoprop allows the pilot to change the propeller pitch in flight through a toggle switch mounted in the cockpit. Mounts directly to any Rotax gear box (B or C0 and can be adapted to VW, Subaru, Hirth, Arrow and smaller Lycoming and Continental engines. Older model Ivoprop ground adjustable props can be converted to the In Flight System with the Retrofit Kit. In Flight adjustable hub comes assembled with complete instructions. Weight of 3 blade 72" Prop including all required parts (furnished) is 9 lbs. Specify aircraft and engine make and model, and propeller diameter (48" to 76"). Magnum Ivoprops are for engines up to 700 HP (56"-76" prop. dia.).

Magnum 2-Blade Ivoprop Kit.....P/N 05-33270 .....**$3,991.00**
Magnum 3-Blade Ivoprop Kit.....P/N 05-33280 .....**$4,483.00**
Magnum 6-Blade Ivoprop Kit.....P/N 05-33290 .....**$6,104.00**
Magnum Retrofit Kit for Ground Adjustable Ivoprops
P/N 05-33295 .....**$2,668.00**

IVOPROP REPLACEMENT BLADES

Note: Proproot Number required prior to order. (This number can be found at the base of the original prop blade).

High Pitch Right Hand.....P/N 15-06638 .....**$310.00**
High Pitch Left Hand .....P/N 15-05477 .....**$311.00**
Standard Pitch Right Hand.....P/N 15-05856 .....**$310.00**
Standard Pitch Left Hand .....P/N 15-05478 .....**$311.00**

ULTRA-PROP

Select 2, 3, or 4 blade props. Each blade is moulded from a high strength glass-reinforced composite. High efficiency airfoil design means high thrust from a 59" diameter prop. One set of pitch blocks included, additional blocks available in 1° increments. Universal hubs made from high strength composite. Accommodates most popular bolt-mounting patterns. Each prop comes complete with all assembly and mounting hardware, and complete instructions. Black blades and hub are beautifully complemented by high impact polyester spinner. Blades can be trimmed to length, allowing custom prop diameters as small as 48".

Description	Part No.	Price	Description	Part No.	Price
Kit 2 Blade LH	UP102L	**$470.00**	Kit 2 Blade RH	UP102R	**$470.00**
Kit 3 Blade LH	UP103L	**$565.00**	Kit 3 Blade RH	UP103R	**$565.00**
Kit 4 Blade LH	UP104L	**$678.00**	Kit 4 Blade RH	UP104R	**$679.00**
Kit 5 Blade LH	05-06455	**$784.00**	Kit 5 Blade RH	05-06456	**$784.00**
Kit 6 Blade LH	05-06457	**$899.00**	Kit 6 Blade RH	05-06458	**$899.00**

ACCESSORIES

Description	Part No.	Price
Pitch Block Set 13 DG	UP13	**$16.55**
Bolt Sleeve Set	UPSLEEVE	**$12.50**
Hardware Pack	UPHDW	**$10.50**
Hub half 2 Blade	UP1072	**$82.80**
Hub Half 3 Blade	UP1073	**$82.80**
Hub Half 4 Blade	UP1074	**$82.80**

PROPELLER ENGINE BALANCE MASTER

Balance Masters® are PATENTED, DESIGNED, MANUFACTURED AND DISTRIBUTED IN THE U.S.A. and are easy-to-install devices for propellers and Rotax engines. These devices cut the vibration factor on ultralight aircrafts by as much as 50 percent when both balancers are installed.

Balance Masters® are weighted with a high density liquid mass (Mercury). The physical principles of centrifugal and gyroscopic forces explain the action of the Balance Masters®. With the Balance Masters installed, the weighted liquid mass (Mercury) in the apparatus shifts during spinning, and adjusts to compensate for imbalances due to such factors as changes in flying conditions or warpage in the propeller, from nicks and rocks during takeoffs and landings. The Propeller Balance Masters® mounts on the propeller shaft or gear box in conjunction with the propeller. It is less than 7 inches in diameter.

The Engine Balance Master is made to fit most Rotax engines and bolts under the Starter Pulley on the Fly Wheel side of the engine. It is less than 5 inches in diameter. Each device weighs about 4 oz. Installation will take about 25-30 minutes using ordinary hand tools for each device. Balance Master is designed to fit most propeller bolt patterns and Rotax engines from 277FA through 582. We will need to know the manufacturer of your propeller and engine model to determine the right configuration.

Description	Part No.	Price
Off-Set Prop Balancer	15-05828	**$202.95**
Balancer for Engine Rotax 912, 914	15-09450	**$231.95**
Balancer for Engine Rotax 377, 447, 503	15-05261	**$230.95**
Balancer for Engine Rotax 582, 618	15-05260	**$206.95**

STEEL LEADING EDGE PROP TAPE

Stainless Steel leading edge tape. This part replaces the leading edge tape on the Ivoprop .....P/N 15-06059 .....**$16.50**

CONSTANT SPEED ELECTRONIC GOVERNOR

• Converts In-Flight Adjustable Ivoprop into the constant speed propeller
• Plugs into existing wiring harness • Size: 2" x 4" x 1"
P/N 05-00601 .....**$482.00**

POLYMER SPINNER WASHERS

Propeller spinner washers are typically made from thin nylon. They are usually replaced every time the spinner is removed because the screw pressure against the spinner curvature causes the nylon washers to fail. Instead of nylon, these washers are machined from an extruded billet of a, very tough polymer material – the toughest we make – so they won't crack or extrude. The washers easily conform to the spinner's curved surface and will serve without replacement for a very long time. In fact, they may never need replacement! Fits a # 10 screw, with a diameter and thickness to suit the round head stainless steel screw usually used for prop spinners.

SCREWS NOT INCLUDED PACKAGED IN BAGS OF 25

Color	Description	Part No.	Price
Yellow	Spinner Washers Pack of 25	05-12883	**$136.75**
Clear	Spinner Washers Pack of 25	05-15422	**$136.75**
Gray	Spinner Washers Pack of 25	05-15423	**$136.75**

WHIRLWIND PROPELLERS

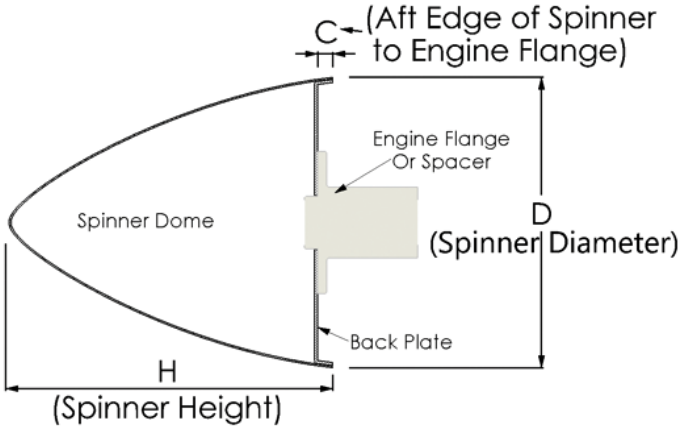
WhirlWind Propellers makes ground adjustable and constant speed propellers. Blades are made of carbon fiber with an electro-formed nickel leading edge and hubs are CNC machined from aircraft grade aluminum. These are the lightest, highest performing propellers in LSA, STOL, and High Speed aviation.
All Propeller Orders Include Blades, Hub, and Hardware

Engine	HP	Mounting Bolts	Flange Bolt Pattern	Application	Prop	D	Blades	Wt (lb)	WWP ID	Part No.	Price
CONSTANT SPEED PROPELLERS**											
Lyc 320/340	150-160 HP	7/16"	SAE2, 4-3/4"	Const. Speed	CS-300	72"	3	36	CS-300-72"-716	05-26423	**$17,250.00**
Lyc 360/390	180-210 HP	1/2"	SAE2, 4-3/4"	Const. Speed	CS-300	72"	3	36	CS-300-72"-816	05-26424	**$17,250.00**
Lyc 540	260-300 HP	1/2"	SAE2, 4-3/4"	Const. Speed	CS-300	79"	3	39	CS-300-79"-816	05-26425	**$17,250.00**
LYCOMING-TYPE GROUND ADJUSTABLE PROPELLERS											
Cont O-200 or Lyc 235	100-125 HP	3/8"	4-3/8"	Standard	GA-200CN	72"	2	12	GA-200CN-72"	05-12605	**$3,588.00**
Lyc 290	130 HP	3/8"	SAE2, 4-3/4"	High Speed	GA-200L	68"	2	15	GA-200L-68"-616	05-26426	**$4,023.00**
Lyc 320/340	150-160 HP	3/8"	SAE2, 4-3/4"	High Speed	GA-200L	70"	2	15	GA-200L-70"-616	05-26427	**$4,023.00**
		3/8"	SAE2, 4-3/4"	High Speed	GA-200L	72"	2	16	GA-200L-72"-616	05-26429	**$4,023.00**
		7/16"	SAE2, 4-3/4"	High Speed	GA-200L	70"	2	16	GA-200L-70"-716	05-26428	**$4,023.00**
		7/16"	SAE2, 4-3/4"	High Speed	GA-200L	72"	2	17	GA-200L-72"-716	05-26430	**$4,023.00**
Lyc 360	180 HP	1/2"	SAE2, 4-3/4"	High Speed	GA-200L	72"	2	18	GA-200L-72"-816	05-26431	**$4,023.00**
LYCOMING-TYPE STOL GROUND ADJUSTABLE PROPELLERS											
Lyc 320/340	150-160 HP	3/8"	SAE2, 4-3/4"	STOL	GA-200L STOL	76"	2	17	GA-200L STOL-76"-616	05-26432	**$4,479.00**
		3/8"	SAE2, 4-3/4"	STOL	GA-200L STOL	78"	2	18	GA-200L STOL-78"-616	05-26434	**$4,479.00**
		7/16"	SAE2, 4-3/4"	STOL	GA-200L STOL	76"	2	17	GA-200L STOL-76"-716	05-26433	**$4,479.00**
		7/16"	SAE2, 4-3/4"	STOL	GA-200L STOL	78"	2	18	GA-200L STOL-78"-716	05-26435	**$4,479.00**
Lyc 360	180 HP	1/2"	SAE2, 4-3/4"	STOL	GA-200L STOL	80"	2	18	GA-200L STOL-80"-816	05-26436	**$4,479.00**
			SAE2, 4-3/4"	STOL	GA-200L STOL	82"	2	18	GA-200L STOL-82"-816	05-26437	**$4,927.00**
Lyc 390	210 HP	1/2"	SAE2, 4-3/4"	STOL	GA-300L STOL	78"	3	26	GA-300L STOL-78"-816	05-26444	**$6,756.00**
ROTAX GROUND ADJUSTABLE PROPELLERS											
Rotax 912/914	80-100 HP	5/16"	4" Non-Threaded*	Standard	GA-RW3B	68"	3	8	GA-RW3B-68"-(No-Thread)	05-11166	**$2,518.00**
	100 HP	5/16"	4" Non-Threaded*	Standard	GA-RW3B	70"	3	8	GA-RW3B-70"-(No-Thread)	05-06850	**$2,518.00**
	100-115 HP	5/16"	4" Non-Threaded*	STOL	GA-RW3B STOL	75"	3	9	GA-RW3B STOL-75"-(No-Thread)	05-12339	**$3,230.00**
	80-100 HP	5/16"	4" Threaded*	Standard	GA-RW3B	68"	3	8	GA-RW3B-68"-(Thread)	05-26448	**$2,553.00**
	100 HP	5/16"	4" Threaded*	Standard	GA-RW3B	70"	3	8	GA-RW3B-70"-(Thread)	05-26449	**$2,553.00**
	100-115 HP	5/16"	4" Threaded*	STOL	GA-RW3B STOL	75"	3	9	GA-RW3B STOL-75"-(Thread)	05-26450	**$2,691.00**
Rotax 915	140 HP	5/16"	4" Non-Threaded*	Standard	GA-R3B	70"	3	8	GA-R3B-70"-(No-Thread)	05-26447	**$3,243.00**
			4" Threaded*	Standard	GA-R3B	70"	3	8	GA-R3B-70"-(Thread)	05-26446	**$3,243.00**
UL POWER AND JABIRU GROUND ADJUSTABLE PROPELLERS											
UL260	100 HP	5/16"	4"	Standard	GA-UL260 2B	66"	2	8	GA-UL260 2B-66"	05-12613	**$2,553.00**

WHIRLWIND GOVERNORS

Engine	HP	Mounting Bolts	Flange Bolt Pattern	Application	Prop	D	Blades	Wt (lb)	WWP ID	Part No.	Price
UL350	130 HP	5/16"	4"	STOL	GA-UL350 2B	70"	2	9	GA-UL350 2B-70"	05-26451	**$3,720.00**
			4"	Standard	GA-UL350 3B	66"	3	12	GA-UL350 3B-66"	05-12614	**$3,381.00**
Jabiru 3300	107 HP	5/16"	4"	Standard	GA-J2B	65"	2	8	GA-J2B-65"	05-11835	**$3,064.00**

WHIRLWIND SPINNERS



F = Finish Options
(S1) Primer finish; a white primer ready for painting
(S2) Dark Matter finish; a natural carbon fiber semi-gloss gel coat.
- For maximum gloss and UV protection, it is recommended that customers apply a clear urethane top coat to the Dark Matter Spinners.

AP

Propeller Model	Engine Type	Diameter	F	C	Part No.	Price
GA-200L-70" or 68"	Cont 200 or Lyc 235	11.3"	S1	0.65"	05-26463	**$580.00**
	Lyc 290/ 320/340	12.0" Cub	S2	0"	05-26466	**$684.00**
		320/340	S1	0"	05-26475	**$580.00**
		12.0" Univ	S2	0.65"	05-26484	**$759.00**
		12.0" Univ	S1	0.65"	05-26493	**$635.00**
		13.0"	S1	0.5"	05-26502	**$794.00**
	Lyc 360	12.0" Cub	S2	0"	05-26467	**$684.00**
		Lyc 360	S1	0"	05-26476	**$580.00**
		12.0" Univ	S2	0.65"	05-26485	**$759.00**
		12.0" Univ	S1	0.65"	05-26494	**$635.00**
		13.0"	S1	0.5"	05-26503	**$794.00**
GA-200L-72"	Lyc 320/340	12.0" Cub	S2	0"	05-26468	**$684.00**
		Lyc 320/340	S1	0"	05-26477	**$580.00**
		12.0" Univ	S2	0.65"	05-26486	**$759.00**
		12.0" Univ	S1	0.65"	05-26495	**$635.00**
		13.0"	S1	0.5"	05-26504	**$794.00**
	Lyc 360	12.0" Cub	S2	0"	05-26469	**$684.00**
		Lyc 360	S1	0"	05-26478	**$580.00**
		12.0" Univ	S2	0.65"	05-26487	**$759.00**
		12.0" Univ	S1	0.65"	05-26496	**$635.00**
		13.0"	S1	0.5"	05-26505	**$794.00**
GA-200L-STOL-76" or 80"	Lyc 320/340	12.0" Cub	S2	0"	05-26470	**$684.00**
		Lyc 320/340	S1	0"	05-26479	**$580.00**
		12.0" Univ	S2	0.65"	05-26488	**$759.00**
		12.0" Univ	S1	0.65"	05-26497	**$635.00**
		13.0"	S1	0.5"	05-26506	**$794.00**
	Lyc 360	12.0" Cub	S2	0"	05-26471	**$684.00**
		Lyc 360	S1	0"	05-26480	**$580.00**
		12.0" Univ	S2	0.65"	05-26489	**$759.00**
		12.0" Univ	S1	0.65"	05-26498	**$635.00**
		13.0"	S1	0.5"	05-26507	**$794.00**

Propeller Model	Engine Type	Diameter	F	C	Part No.	Price
GA-200L-STOL-78" or 82"	Lyc 320/340	12.0" Cub	S2	0"	05-26472	**$684.00**
		12.0" Cub	S1	0"	05-26481	**$580.00**
		12.0" Univ	S2	0.65"	05-26490	**$759.00**
		12.0" Univ	S1	0.65"	05-26499	**$635.00**
		13.0"	S1	0.5"	05-26508	**$794.00**
	Lyc 360	12.0" Cub	S2	0"	05-26473	**$684.00**
		12.0" Cub	S1	0"	05-26482	**$580.00**
		12.0" Univ	S2	0.65"	05-26491	**$759.00**
		12.0" Univ	S1	0.65"	05-26500	**$635.00**
		13.0"	S1	0.5"	05-26509	**$794.00**
GA-300L-STOL-78"	Lyc 390	12.0" Cub	S2	0"	05-26474	**$711.00**
		12.0" Cub	S1	0"	05-26483	**$608.00**
GA-J2B	Jabiru	9.0"	S1	0.65"	05-26453	**$559.00**
		9.75"	S1	0.65"	05-26457	**$573.00**
		11.3"	S1	0.65"	05-26461	**$580.00**
GA-R2B	Rotax	9.0"	S1	0.65"	05-26454	**$559.00**
		9.75"	S1	0.65"	05-26458	**$573.00**
		11.3"	S1	0.65"	05-26462	**$580.00**
GA-RW3B or GA-R3B	Rotax	9.75"	S1	0.65"	05-26459	**$573.00**
		11.3"	S1	0.65"	05-26465	**$608.00**
		12.0" Univ	S2	0.65"	05-26492	**$766.00**
		12.0" Univ	S1	0.65"	05-26501	**$663.00**
GA-UL260-2B or GA-UL350-2B	UL Power	9.0"	S1	0.65"	05-26452	**$559.00**
		9.75"	S1	0.65"	05-26455	**$573.00**
		11.3"	S1	0.65"	05-26460	**$580.00**
GA-UL350-3B	UL Power	9.75"	S1	0.65"	05-26456	**$573.00**
		11.3"	S1	0.65"	05-26464	**$608.00**

RV Spinner Includes Fwd Bulk Head

Note: All 12.0" Cub Spinners have a forward facing back plate with C = 0"

PCU 5000 PROPELLER GOVERNORS

The PCU5000 is lightweight, compact & pumps 30 - 35% more oil which maintains a perfect constant-speed.

Features:

- Compact / Weighs 2 lbs. less than most conventional governors
- New units at a lower cost
- Easy installation - hardware included
- TBO - same as your engine
- 3 year limited warranty
- 4 year extended warranty available

PCU5000 - FAA-PMA Approved for single engine Cessna, Beechcraft /Raytheon, Remis, Mooney and Piper aircraft. Certified models fit all: Lycoming, Continental and *Rotax engines *(applicable if mounting pad conforms to AND20010)

PCU5000X - Experimental - The PCU5000X is specially engineered for single engine experimental aircraft and can be customized to a specific application.

Experimental models fit all: Lycoming, Continental, Superior Air Parts, Engine Components and *Rotax engines *(applicable if mounting pad conforms to AND20010)

Complete engine number required for order on each model.

PCU5000X Experimental Prop Governor ..... P/N 05-04750 ..... **$2,726.00**

PCU5000 Certified Prop Governor for McCauley / Woodward ..... P/N 05-04751 ..... **$3,232.00**

PCU 500 Model	Part No.	Price
PCU5000 Prop Governor ATG210760	05-12520	**$3,161.00**
PCU5000 Prop Governor ATM210761	05-12521	**$4,512.00**
PCU5000 Prop Governor ATN210761	05-12522	**$4,512.00**
PCU5000 Prop Governor ATP210761	05-12523	**$4,513.00**
PCU5000 Prop Governor ATB210681	05-12524	**$4,672.00**
PCU5000 Prop Governor ATB210988	05-12525	**$4,672.00**
PCU5000 Prop Governor ATF4-4A-1	05-12526	**$4,005.00**
PCU5000 Prop Governor ATT210761	05-12527	**$3,272.00**
PCU5000 Prop Governor ATD210688D	05-12528	**$4,672.00**
PCU5000 Prop Governor ATF6-58-1	05-12529	**$4,672.00**
PCU5000 Prop Governor ATF6-58	05-12530	**$4,672.00**
PCU5000 Prop Governor ATF6-59	05-12531	**$4,512.00**
PCU5000 Prop Governor ATB210760	05-12532	**$3,239.00**
PCU5000 Prop Governor ATA210760L	05-12533	**$3,162.00**
PCU5000 Prop Governor ATA210760LD	05-12534	**$4,673.00**
PCU5000 Prop Governor ATJ210681	05-12535	**$3,161.00**
PCU5000 Prop Governor ATA210760H	05-12536	**$3,161.00**
PCU5000 Prop Governor ATA210760HD	05-12537	**$4,672.00**
PCU5000 Prop Governor AT210657	05-12539	**$3,272.00**
PCU5000 Prop Governor ATC210680	05-12540	**$3,274.00**
PCU5000 Prop Governor AT210937	05-12541	**$3,190.00**
PCU5000 Prop Governor AT210488	05-12542	**$3,272.00**
PCU5000 Prop Governor ATB210761	05-12544	**$3,231.00**
PCU5000 Prop Governor ATE210761	05-12545	**$3,238.00**
PCU5000 Prop Governor ATH-1	05-12546	**$4,207.00**
PCU5000 Prop Governor ATB4-2	05-12547	**$4,672.00**
PCU5000 Prop Governor ATF4-1A	05-12548	**$4,004.00**
PCU5000 Prop Governor ATF4-4A	05-12549	**$4,005.00**
PCU5000 Prop Governor ATG210681	05-12550	**$4,514.00**
PCU5000 Prop Governor ATF4-3A	05-12551	**$4,004.00**
PCU5000 Prop Governor ATF4-13	05-12552	**$4,004.00**
PCU5000 Prop Governor ATF4-21	05-12553	**$4,004.00**
PCU5000 Prop Governor ATF2-7A	05-12554	**$4,060.00**
PCU5000 Prop Governor ATF4-11B	05-12555	**$3,869.00**
PCU5000 Prop Governor ATF210761	05-12558	**$4,672.00**

VISIT WWW.AIRCRAFTSPRUCE.CA FOR COMPLETE LIST OF PCU 5000 SERIES GOVENORS.

PROPELLER BALANCERS

DYNAVIBE PROP BALANCER

DynaVibe is an economical, state-of-the-art dynamic propeller balancer designed specifically for the aircraft industry. DynaVibe displays the magnitude and phase of propeller vibration allowing precise weight adjustments for balanced and smooth engine operation. * Economical - including: • Dynamic Balancer • Accelerometer with 30 ft cable • Optical Pickup and Reflective Tape (Tach) • Carrying Case • No hidden costs or additional items to buy! * Accurate - Reports RPM, Vibration Magnitude * Results - Reduce vibration for a smoother flight, and decrease mechanical wear of engine and instruments

Aircraft Prop Balancer ..... P/N 05-04532 ..... **$2,064.00**
Aircraft Prop Balancer with NIST ..... P/N 05-04533 ..... **$2,271.00**
Rotocraft Prop Balancer ..... P/N 05-04534 ..... **$2,754.00**
Rotocraft Prop Balancer with NIST ..... P/N 05-04535 ..... **$3,023.00**

RETROREFLECTIVE TAPE FOR DYNAVIBE

This tape has a printed triangular pattern which provides strong visibility because of its reflective surface..... P/N 05-10645 ..... **$32.65**

BUZZ MASTER PROP BALANCER

This extremely simple and sensitive tool uses the plum-bob and bevel principle to balance props both vertically and horizontally. It can be carried in a small tool box for easy use in the field and balances props accurately for smooth operation. The precision machined hub works with any prop designed with standard 1" center hole. Illustrated instructions included ..... P/N 13-17400 ..... **$41.50**

DIGITAL RECHARGEABLE PROPELLER PROTRACTOR

The Protector is a precision, highly accurate and simple to use device for checking, setting or changing propeller pitch. The resolution and repeatability is 0.05 degree and the accuracy is +/- 0.1 degree. It is powered with a standard 9 volt battery with approximately one year use life.

P/N 12-04974 ..... **$158.75**

DYNAVIBE GX3 PROFESSIONAL PROP BALANCER AND VIBRATION ANALYZER

DynaVibe GX3 (DynaTrack Optional)
The DynaVibe GX3 has all the balancing and vibration analysis features of the DynaVibe GX2 and adds helicopter track and balance capability. The GX3's rotorcraft mode allows multiple vibration readings to be taken per flight and can be operated with a push-to-talk switch. This is ideal for single-operator operation. When used in conjunction with the DynaTrack optical tracker accessory, the DynaVibe GX3 measures blade track simultaneously with vibration measurements.
DynaTrack Optical Tracker Accessory (DynaVibe GX3 Required)
The DynaTrack optical tracking accessory for the DynaVibe GX3 measures blade track for up to 6 blades. The DynaTrack mounts conveniently to the windscreen with a suction cup which makes setup quick and easy.

DynaVibe GX3 ..... P/N 05-14970 ..... **$5,514.00**
DynaVibe GX3 & DynaTrack Kit ..... P/N 05-14680 ..... **$9,654.00**
DynaVibe DynaTrack ..... P/N 05-14678 ..... **$4,134.00**
Sensor Mounting Kit ..... P/N 05-14679 ..... **$121.75**

PROPELLER BALANCING BUSHING KITS

Propeller Balancing Bushing Kit
Fine tune propeller balance with this accurate and easy to use bushing kit!
An out of balance propeller can lead to harmful vibrations and costly aircraft maintenance. Costly issues that may arise include:
- Excessive load on crankshaft bearings
- Cracking of propeller and spinner bulkheads
- Engine mount wear and deterioration
- Distracting airframe vibration

These bushing kits make it possible to check the static balance of a propeller quickly and accurately.

Description	Specifications	Part No.	Price
129 Propeller Bushing Kit	1-1/4 to 1-1/2 Taper type axle sizes as in the Cessna 30 & 400 series	**05-12919**	**$515.00**
129 Balancer Tool	For use with the 129 PBK - ONLY	**05-12922**	**$466.00**
108 Propeller Bushing Kit	1-1/4 to 1-1/2 axle sizes	**05-12920**	**$515.00**

AP

RAPCO DE-ICERS / ICE SHIELD

ICE SHIELD DE-ICING SYSTEMS

Ice Shield is a *FASTER, BETTER, SMARTER.* way to get your aircraft out of icing conditions.

WING BOOTS

HEATED PROP BOOTS

WIRE HARNESSES

ENGINE INLET BOOTS

Committed to delivering the best value in pneumatic wing boots, both Standard and Pressure Sensitive Adhesive (PSA) wing boots are interchangeable with original equipment.

A world-wide network of certified installation centers provides convenience in choosing the closest location for any aircraft owner or operator.

- No-hassle warranty
- Easy, direct access to technical support
- Best value in de-icing parts
- First class customer service

STANDARD ICE SHIELD BOOTS

- 48-hour delivery to the Continental US or US based freight forwarder
- Rugged, polymer construction ensures strength and longevity
- Trusted in the marketplace for the past 20 years

ICE SHIELD PSA™

- 72-hour delivery to the Continental US or US based freight forwarder
- Quicker, neater, cleaner installation
- Fly aircraft immediately *Peel.Stick.Fly™*
- Minimal use of solvents
- Reduced labor hours

Ice Shield PSA products are not available for sale or shipment to Canada, U.K., Germany, or France.
Ice Shield standard wing boots are available for sale and shipment worldwide.

ICE SHIELD IS AVAILABLE TO AIRCRAFT SPRUCE DEALERS!
CALL 1-877-4SPRUCE

AP

MCCAULEY DE-ICE BRUSH CLUSTERS FROM RAPCO

These McCauley De-Ice Brush Clusters from Rapco are FAA-PMA approved and are applicable to any aircraft using the McCauley style brush blocks. Two clusters per block are required. Brush clusters with dash numbers require one of each dash number per block.

RAPCO No.	Block No.	Installation	Part No.	Price
RAB40012	C40010	Cessna: T182, TR182, 340A, 402C, 404, 414A, 421C, 425	05-01326	**$179.75**
RAB40046	C40055	Cessna: U206G, TU206G, 210N, P210N, T210N, 210R, T210R, 310P, T310P, 310Q, T310Q, 310R, T310R, 441	05-01328	**$312.00**
RAB40189	C40179	Cessna: T182, TR182, 340A, 402C, 404, 414A, 421C, 425	05-01327	**$198.75**
RAB40193	C40187	Cessna: U206G, TU206G, 210N, T210N, 210R, P210N, T210R, T303, 441	05-01329	**$199.80**
RAC40256-1	C40257	Raytheon: F33A, V35B, A36, B36TC, 58, 58A, 58P, 58PA, 58TC, 58TCA, B200, B200C, B200CT, B200T	05-01330	**$172.75**
RAC40256-2	C40257	Raytheon: F33A, V35B, A36, B36TC, 58, 58A, 58P, 58PA, 58TC, 58TCA, B200, B200C, B200CT, B200T	05-01331	**$173.75**
RAB40332	C40331	Fairchild: SA227-AT, SA227-AC, SA227-BC, SA227-CC, SA227-DC	05-01334	**$228.95**
RAC40371-1	C40363	Raytheon: B200, B200C, B200T, B200CT, A200CT	05-01332	**$198.75**
RAC40371-2	C40363	Raytheon: B200, B200C, B200T, B200CT, A200CT	05-01333	**$198.75**
RAC40464-1	C40463 & C40685	Beechcraft: 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, (T42), 95-C55, 95-C55A, 95-D55, 95-D55A, 95-E55, 95-E55A, A200CT (RC-12K), A200CT (RC-12P), A200CT (RC-12Q)	05-13270	**$350.00**
RAC40464-2	C40463 & C40685	Beechcraft: 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, (T42), 95-C55, 95-C55A, 95-D55, 95-D55A, 95-E55, 95-E55A, A200CT (RC-12K), A200CT (RC-12P), A200CT (RC-12Q)	05-13271	**$350.00**
RAC40522-1	C40660	Cessna: 182S, 182T, T182T, 206H, T206H	05-13273	**$307.00**
RAC40522-2	C40660	Cessna: 182S, 182T, T182T, 206H, T206H	05-13274	**$307.00**

RA1649 HUB EXTENDER

3 wire, 9 1/2" long, ring terminals. Replaces: BFG PN. 3E1549. BFG: Most BFG de-ice part numbers convert to RAPCO part numbers by changing the prefix to RA and adding 100 to the base number.

P/N 05-11753 .....**$92.75**

DEICE BRUSH MODULE SPACERS

Spacers are replacement parts for the Modular De-ice brush assemblies.

Model No.	Replaces	Description	Part No.	Price
RA2318-3	BFG P/N 3E2218-3	1 5/8" W x 1 1/2" L x 3/32" T	06-02936	**$50.50**
RA2318-4	BFG P/N 3E2218-4	1 5/8" W x 1 1/2" L x 1/8" T	06-02937	**$50.50**
RA2318-5	BFG P/N 3E2218-5	1 5/8" W x 7/8" L x 5/16" T	06-02938	**$50.50**
RA2318-6	BFG P/N 3E2218-6	1 5/8" W x 1 3/8" D x 5/16" T	06-02939	**$50.50**

RA2111U UNIVERSAL DE-ICE BRUSH MODULE KIT

RA2111U Universal Brush Module Kit with unrodded brush, wire markers, terminal and spacer. Replaces: BFG PNs. 3E2011-1 thru -6 & -8 brush modules with unrodded brushes.

P/N 05-11763 .....**$177.75**

RA2111U-ROD UNIVERSAL DE-ICE BRUSH MODULE KIT WITH ROD

RA2111U Universal rodded brush module kit with wire markers, terminal and spacer. Replaces: BFG PN. 3E2011-1 thru -6, -8 & -10 brush modules with rodded brushes.

P/N 05-11764 .....**$177.75**

RA2040-1 WEAR STRIP

Insert for brush slots on BFG heavy duty brush blocks assemblies PNs. 4E3196-1 or 4E3197-1, used on Beechcraft 1900, 1900C (C-12J), 1900D.

P/N 06-02935 .....**$16.55**

RAPCO DE-ICERS

RAPCO WIRE HARNESSES

Model No.	Replaces	Description	Part No.	Price
RA1656	BFG PN. 3E1556	Hub Extender. 3 wire, 8 1/4" long, ring terminals	05-12591	**$92.75**
RA1989-2	BFG PN. 4E1889-2 Safeway PNs. 6976, D-5735-1	3 wire, 13 3/4" long, ring terminals	05-11755	**$87.99**
RA1989-3	BFG PN. 4E1889-3 Safeway PN. 6959	3 wire, 13" long, ring terminals	05-11756	**$87.99**
RA1989-4	BFG PN. 4E1889-4 Safeway PN. 6871	3 wire, 15 3/4" long, ring terminals	05-11757	**$87.99**
RA2067-1	BFG PN. 4E1967-1 Safeway PN. 6962	3 wire, 15" long, ring terminals & butt splices	05-11759	**$87.99**
RA2067-2	BFG PN. 4E1967-2 Safeway PN. 6963	3 wire, 18" long, ring & butt terminals	05-11760	**$87.99**
RA2067-3	BFG PN. 4E1967-3 Safeway PN. 6964	3 wire, 14" long, ring & butt terminals	05-11761	**$87.99**
RA2067-4	BFG PN. 4E1967-4 Safeway PN. 6965	3 wire, 15" long, ring terminals & butt splices	05-11762	**$87.99**
RA2117-4	BFG PN. 3E2017-4 Safeway PN. 6881	2 wire, 15 1/2" long, ring terminals	05-11765	**$87.99**
RA2117-8	BFG PN. 3E2017-8, Safeway PN. 6951	2 wire, 17 3/8" long, ring terminals	05-12592	**$92.75**
RA2150	BFG PN. 3E2050-2 Safeway PN. 6961	2 wire, 17" long, ring terminals & plug	05-11768	**$76.95**
RA2150-2	BFG PN. 3E2050-2 Safeway PN. 6961	2 wire, 17" long, ring terminals & plug	05-11769	**$76.95**
RA2171-2	BFG PN. 4E2071-2, Safeway PNs. D-6206-1, 6856C, 6638, Cessna PNs. D-206-1, D-5855-1, 6638	3 wire, 14 3/4" long, ring terminals	05-11770	**$97.75**
RA2192-1	BFG PN. 3E2092-1 Safeway PN. 7022	2 wire, 14 3/8" long, ring terminals & plug	05-11771	**$87.99**
RA2192-2	BFG PN. 3E2092-2 Safeway PN. 6887	2 wire, 15" long, ring terminals & plug	05-11772	**$87.99**
RA2192-3	BFG PN. 3E2092-3 Safeway PN. 6952	2 wire, 14 3/8" long, ring terminals & plug	05-11773	**$87.99**
RA2192-4	BFG PN. 3E2092-4 Safeway PN. 6834	2 wire, 18" long, ring terminals & plug	05-12276	**$86.75**
RA2192-5	BFG PN. 3E2092-5 Safeway PN. 6953	2 wire, 14 1/2" long, ring terminals & plug	05-11774	**$86.75**
RA2192-6	BFG PN. 3E2092-6 Safeway PN. 6954	2 wire, 13 1/8" long, ring terminals & plug	05-11775	**$96.75**
RA2194-1	BFG PN. 3E2094-1 Safeway PN. 6955	2 wire, 15 1/8" long, ring terminals & plug	05-11776	**$85.75**
RA2194-2	BFG PN. 3E2094-2, Safeway PN. 6956	2 wire, 18" long, ring terminals & plug	05-12593	**$100.75**
RA2194-3	BFG PN. 3E2094-3, Safeway PN. 6993	2 wire, 14 1/2" long, ring terminals & plug	05-12594	**$85.75**
RA2460-4	BFG PN. 3E2360-2 3E2360-4, Hartzell PN. 7931-3E2360-4	HD 2 wire, 20 1/2" long, ring terminals & plug.	05-12595	**$106.75**
RA2460-4HD	BFG PN. 3E2360-2 3E2360-4, Hartzell PN. 7931-3E2360-4	HD 2 wire, 20 1/2" long, ring terminals & plug	05-12596	**$72.80**
RA2469-1	BFG PN. 3E2369-1	3 wire, 13" long, ring terminals & plug	05-12597	**$89.75**
RA2469-2	BFG PN. 4E2369-2 Safeway PN. 6941	3 wire, 13 1/8" long, ring terminals & plug	05-11777	**$89.75**
RA2626-1	BFG PN. 4E2526-1	2 wire, 13 1/4" long, ring terminals	05-12598	**$85.75**
RA40330	Safeway PN. 6719SW, McCauley PN. B-40330	2 wire, 19 7/8" long, ring & hook terminals	05-12599	**$150.75**
RA40387	BFG PN. 3E2293-1 Safeway PN. 6875SW, McCauley PN. B-40387	2 wire, 21 3/4" long, ring & hook terminals	05-12600	**$87.99**
RA-C165013-0602	Cessna PN C165013-0602, BFG PN. 4E2071-1, Safeway PN. 6260SW-1	3 wire, 16 5/8" long, ring terminals	05-11785	**$100.75**
RA-C165013-0604	Cessna PN. C165013-0604, McCauley PN.B-5051, BFG PN. 4E2071-3, Safeway PN. 6479SW 2	3 wire, 16 5/8" long, ring terminals	05-12278	**$79.75**
RA40531	McCauley 40531	2 wire, 21 3/4" long, ring terminals, plug connector	05-15366	**$97.75**
RA40585	McCauley 40585	2 wire, 19 1/2" long, ring terminals, plug connector	05-14963	**$83.85**

RAPCO DE-ICE BRUSHES

RAPCO manufactures FAA PMA approved propeller de-ice brushes for replacement in BFG brush assemblies. These specially formulated carbon compound offers increased service life by reducing wear at altitude.

Model No.	Replaces	Description	Part No.	Price
RA1306-1	BFG P/N 3E1206-1 used in solid block assemblies.	Rodded brush, carbon 3/4" L x 3/4" W X 1/8 " T, with 1 1/2" wire lead.	05-11743	**$112.85**
RA1306-2	BFG P/N 3E1206-2 used in solid block assemblies.	Rodded brush, carbon 3/4" L x 3/4" W X 1/8" T, with 1 1/4" wire lead.	05-11744	**$107.75**
RA1306-3	BFG P/N 3E1206-3 used in solid block assemblies.	Rodded brush, carbon 3/4" L x 3/4" W X 1/8" T, with 1 3/4" wire lead.	05-11745	**$107.75**
RA1543-1	BFG P/N 3E1443-1 used in solid block assemblies.	Brush 13/16" L x 3/4" W X 1/8" T with 1 1/2" wire lead.	05-11749	**$103.75**
RA1543-2	BFG P/N 1443-2 used in solid brush block assemblies.	Brush 13/16" L x 3/4" W X 1/8" T with 1 1/4" wire lead.	05-11750	**$103.75**
RA1543-5	BFG P/N 3E1443-4 unrodded brush or 3E1443-5 kit.	Kit includes RA1543-4 brush measuring 13/16" L x 3/4" W X 1/8" T, with wire markers & terminal.	05-11751	**$103.75**
RA1543-7	BFG P/N 3E1443-6 rodded brush or 3E1443-7 kit used in BFG P/N 3E2011-1 thru -5, & -10 or RAPCO P/N RA2111U-ROD modules.	Kit includes RA1543-6 rodded brush measuring 13/16" L x 3/4" W X 1/8" T, wire markers & terminal.	05-11752	**$103.75**
RA2426-2	BFG P/N 3E2326-2 brush kit or 3E2326-1 brush. Used in constant force modules P/N 3E2320-1 thru-6 & -8.	Kit includes RA2426-1 brush measuring 3/4" W X 1 3/8" L X 1/8" T and constant force springs.	05-12601	**$168.75**
RA2620-1	BFG P/N 3E2520-1 brush or 3E2522-1 kit. Used in BFG Heavy Duty brush assembly 4E3096-1, 4E3097-1, 4E3196-1 & 4E3197-1.	Kit, with brush 3/4" W X 1 1/16" L X 1/8" T, terminal and wire markers for BFG assembly P/N 4E3196-1, 4E3197-1. Note: Order 4 each per block.	05-12602	**$147.75**
RA2142-1	BFG P/N 3E2042-1	Modular De-ice Brush Assembly, 3 brush	05-11766	**$594.00**
RA2142-2	BFG P/N 3E2042-2	Modular De-ice Brush Assembly, 3 brush	05-12580	**$644.00**
RA2144-1	BFG P/N 3E2044-1	Modular De-ice Brush Assembly, 3 brush	05-11767	**$550.00**
RA2144-2	BFG P/N 3E2044-2	Modular De-ice Brush Assembly, 3 brush OR Modular De-ice Brush Assembly, 2 brush as applicable. Same style for all.	05-12581	**$637.00**
RA2146-1	BFG P/N 3E2046-1		05-12582	**$550.00**
RA2146-2	BFG P/N 3E2046-2		05-12583	**$644.00**
RA2146-3	BFG P/N 3E2046-3		05-12584	**$644.00**
RA2162-1	BFG P/N 3E2062-1		05-12585	**$533.00**
RA2162-2	BFG P/N 3E2062-2		05-12586	**$533.00**
RA2171	BFG P/N 3E2071		05-12587	**$533.00**
RA2190-1	BFG P/N 3E2090-1		05-12588	**$472.00**
RA2190-2	BFG P/N 3E2090-2		05-12589	**$533.00**
RA2190-3	BFG P/N 3E2090-3		05-12590	**$533.00**

AP

ACS SKULL CAP SPINNERS

5-inch diameter - For wood or metal props on Cont. A-65 to O-200 engines. High-polish finish. Top quality. Made in the U.S.A.

Polished.....P/N 10210 .....**$82.75**
Unpolished.....P/N 10211.....**$66.75**
5" Skull Spinner Dome (only) Polished .....P/N 05-21600 .....**$61.75**

6-inch diameter - For Lycoming O-235 to O-360 engines and Cessna 170's. With mounting bracket and installation hardware. High-polish finish. Top quality.

Polished.....P/N 10220 .....**$91.80**
Unpolished.....P/N 10221 .....**$74.75**
6" Skull Spinner Dome (only) Polished .....P/N 05-21700 .....**$72.80**
Bracket & Hardware Only (Fits Either Spinner)
P/N 05-21800 .....**$18.99**

CESSNA SKULL CAP SPINNER

Skull Cap Spinner Assembly (small) for Cessna, FAA/PMA Approved. For wood or metal propellers on A-65, A-75, C-85, and C-90 Continental Engines. Made in the U.S.A.

Spinner Assembly....P/N 05-06844 .....**$151.75**
Dome Only.....P/N 05-04829 .....**$119.75**
Bracket Only.....P/N 05-04830 .....**$36.60**

UHS FIBERGLASS SPINNERS

UHS spinners are practical, attractive, and flight proven having enhanced the appearance of many different aircraft. The spinners are available in various diameters for different engine and propeller combinations. For GSC, Ivoprop, Warp Drive, and Power Fin propellers using Rotax, Lycoming, Cont. & Mosler engines, spinners are sent cut out and assembled.

Note: kits include hardware and bulkhead.
For pre-drilled cut-outs we require the following information:

1. Make and size of engine.
2. Make of Propeller.
3. Number of Blades.
4. Size required.

Given adequate information, we can also fabricate spinners for many other propeller-engine combinations. Call with your requirements and we will assess your particular application.

Size	Description	Part No.	Price	Size	Description	Part No.	Price
8"	UHS Spinner	05-09000	**$243.95**	12"	UHS Spinner	05-09400	**$345.00**
9"	UHS Spinner	05-09100	**$271.95**	14"	UHS Spinner	05-09500	**$345.00**
9"	9P Spinner	05-08377	**$271.95**	11.5"	Spinner Kit	05-09700	**$333.00**
10"	UHS Spinner	05-09200	**$286.95**	13"	Spinner Kit	05-09800	**$355.00**
11"	UHS Spinner	05-09300	**$327.00**	13.5"	UHS Spinner	05-11995	**$355.00**
				14"	UHS Spinner	05-09500	**$390.00**

UHS SPINNERS FOR SENSENICH SPORT PROPS

9" SENSENICH PROP SPINNER
Dimensions (inches): W 8.75 x L 10.375 ....P/N 05-08371 .....**$265.95**

9.75" SENSENICH PROP SPINNER
Dimensions (inches): W 9.75 x L 8.25 .....P/N 05-08373 .....**$277.95**

10.5" SENSENICH PROP SPINNER
Dimensions (inches): W 10.5 x L 8.5 .....P/N 05-08374 .....**$320.00**

COMPOSITE SPINNERS FOR PIPERS & CESSNAS

P/N 05-00744

These new composite materials spinners and bulkheads are FAA/PMA approved and STCs to replace aluminum spinners and bulkheads on the Piper aircraft models listed below. Bulkheads are constructed for maximum strength and resistance to fatigue due to vibration. Pipers metal versions often crack in 200-300 hours, whereas the composite assemblies have been tested over 4000 hours on a PA-28 with no failure. Spinners for twins & all bulkheads are warranted against vibration fatigue for the life of the aircraft by the factory. **Includes washers.**

Description	Model	Part No.	Price
Spinner Kit	PA28-140/150/160	05-28350	**$3,306.00**
Spinner Dome	150A, 150F, 150FA	05-01257	**$1,216.00**
Spinner Dome	170B, 172, (1956-59)	05-01258	**$1,208.00**
Spinner Dome	172XP Not FAA/PMA Approved	05-01259	**$1,204.00**
Spinner Dome	172 Skyhawk (G-Q)	05-00744	**$1,208.00**
Spinner Dome	182 P, Q Skylane	05-00746	**$1,539.00**
Spinner Dome	177B, 177RG Cardinal	05-00747	**$3,390.00**
Spinner Dome	210 (all 3 blade McCauley	05-00748	**$2,609.00**
Spinner Dome	PA-140/150/160 Cherokee	05-00749	**$1,212.00**
Spinner Dome	PA-24-180/250, PA23-150/160	05-00752	**$1,216.00**
Spinner Dome	PA-24-180/250, PA23-235/250	05-00753	**$2,363.00**
Bulkhead	PA30, PA23-250 (Aztec)	05-02659	**$1,369.00**
Spinner Dome	PA30, PA23-350 (C model & up)	05-02660	**$2,133.00**
Spinner Dome	PA28-151/161 Warrior	05-02662	**$1,666.00**
Alt. Bulkhead	PA28-151/161 Warrior	05-02658	**$1,067.00**
Fwd. Bulkhead	PA28-151/161 Warrior	05-02655	**$1,461.00**
Spinner	310R, T310Q, T310R, T310P	05-00754	**$1,517.00**
Rear Bulkhead	PA28-161 Warrior	05-02663	**$1,378.00**
Spinner Dome	PA28-161 Warrior POST 1979 13" Spinner	05-02661	**$1,674.00**
Spinner LH	PA34-200T Seneca II	05-02665	**$2,783.00**
Spinner RH	PA34-200T Seneca II	05-02666	**$2,794.00**
Bulkhead	PA34-200T Seneca II	05-02664	**$1,536.00**
Bulkhead	PA31/-325/-350 Navajo	05-02667	**$1,593.00**
Bulkhead	PA31/-325/-350 Navajo	05-02668	**$1,681.00**
Spinner Dome	PA31/-325/-350 Navajo	05-02669	**$2,794.00**
Spinner Dome	PA31/-325/-350 Navajo	05-02670	**$2,794.00**
Bulkhead only	PA38-112 Tomahawk	05-02656	**$1,084.00**
Spinner Dome	PA28-235	05-00756	**$2,783.00**
Fwd. Bulkhead	PA28-180/181 Cherokee/Archer	05-00757	**$960.00**
Spinner Dome only	PA28-180/181 Cherokee/Archer	65805-00	**$3,395.00**
Spinner Dome	PA32R-300, PA32-260/300/301, PA28R-180/200, PA-235	05-00758	**$1,517.00**
Fwd. Bulkhead		05-00759	**$1,098.00**
Spinner Dome	PA38-112 Tomahawk	05-00761	**$1,788.00**
Spinner Dome	PA34-200 Seneca I	05-00762	**$2,467.00**
Fwd. Bulkhead	PA28-161 Warrior	05-02671	**$1,102.00**
Spinner Dome	PA34-200 Seneca I	05-00763	**$2,783.00**
Rear Bulkhead	PA24-400	05-15385	**$2,363.00**
Spinner	PA24-400	05-15384	**$2,363.00**
Spinner Dome	C-172R (Skyhawk) Not FAA/PMA Approved	05-11281	**$1,367.00**
Rear Bulkhead	150A, 150F, 150FA Pending PMA	05-15374	**$1,074.00**
Rear Bulkhead	170B, 172 (1956-1959) Pending PMA	05-15376	**$1,059.00**
Spinner	172 (1960-172A-F) Pending PMA	05-15378	**$1,559.00**
Spinner	172 (G-Q) Penn Yann Conversion	05-15379	**$1,142.00**
Spinner	180, 182 A-D (Early Model) Pending PMA	05-15380	**$1,528.00**
Spinner	Pending PMA206 3 Bladed McCauley Props (Centurion)	05-15381	**$2,422.00**
Spinner	337 Rear Spinner Pending PMA	05-15382	**$1,216.00**
Spinner	337 Front Spinner Pending PMA	05-15383	**$1,216.00**
Spinner	172RG Pending PMA	05-15386	**$1,542.00**
Spinner	150 AVCON Conversion Pending PMA	05-15388	**$1,216.00**
Spinner Dome	C-177/C-177A	05-11282	**$1,800.00**
Spinner Dome	Grumman AA-1/A/B/C	05-11283	**$1,525.00**
Bulkhead	Grumman AA-5, AA-5A Forward	05-11284	**$1,376.00**
Bulkhead	Grumman AA-5B, AG5B Forward	05-11285	**$972.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

PROP GUARD FOR 2 OR 3 BLADE PROPELLER

Anti-abrasion boot for your metal propeller It is more economical to protect your propeller blades with PROP GUARD than to continually file, dress, paint and balance your blades until they have to be replaced. Water, sand, rock, and airborne abrasives are constantly eroding your propeller. As the name suggests, this product can eliminate this destructive process. Virtually all propeller blade failures start as leading edge nicks.
PROP GUARD is a 0.018" thick clear anti-abrasion boot that is bonded to the leading edge of the propeller
PROP GUARD is made from a special high strength heat processed polymer engineered for centrifugal loads. It is NOT just a piece of tape!
Easy to install (approximately 20 minutes installation time)
No performance loss
Fully tested
Repairable
STC FAA-PMA approved (minor alteration, no form 337 required)
Kit contains:
PROP GUARD boot for a two or three bladed propeller, adhesion accelerator, placard, lint-free cotton cloth, complete installation instructions and a copy of the STC.

Description	Part No.	Price
Prop Guard 2 Blade Kit	05-05330	**$130.80**
Prop Guard 3 Blade Kit	05-05335	**$141.80**
Prop Guard Repair Kit (12')	05-11832	**$62.90**
Prop Guard Repair Kit (24')	05-11833	**$74.75**

AERO TECH SPINNER ASSEMBLY

Composite spinner assembly for installation on Piper PA-18, PA-19, PA-22, PA-25, PA-28's with McCauley 1A200/FA series or Sensenich 76EM8 series propellers. Spinner dome is fiberglass. Bulkheads are Carbon Fiber. These composite parts/assembly are lighter and superior to equivalent aluminum parts where cracking is a common problem. Non PMA.
Can be installed on listed aircraft as direct replacement or other aircraft with field approval FAA form 337.

Spinner Assembly with Bulkheads .....P/N 05-26697 .....**$2,672.00**
Spinner Dome Only .....P/N 05-26698 .....**$1,629.00**
AFT Bulkhead Assembly .....P/N 05-26699 .....**$920.00**
Forward Bulkhead Assembly.....P/N 05-26700 .....**$753.00**

O-RING FOR HARTZELL COMPACT HUB PROPELLERS

The O-ring is A1633-11 or PRP909-6; commonly made by Parker Seal Company. Outside Diameter: .048 Length Under Flange: .096 Flange Diameter: .072.....P/N 04-04566 .....**$4.65**

THERM-X HOT PROP PROPELLER DE-ICING KIT

De-icing in under 90 seconds with the push of a button! No Fluids! No Mess! • Therm-X Hot Prop is a complete propeller deicing kit made up of Part 23 certified products (no more scrounging parts to build system) • Available for 2 blade props (currently Continental only, Lycoming to follow) 12V or 24V • 1 year Warranty • Installation documentation • Manufacturer provides support • Weight 4.9 lbs.
2 Blade .....P/N 05-03383 .....**$5,086.00**

CATTO CARBON FIBER SPINNERS

Carbon fiber spinners for experimental aircraft.
The spinner kits include:
• Required hardware • Unfinished spinner dome
• Both forward/rear bulkheads.
Catto installs the self-centering forward bulkheads prior to shipment to ensure a high quality centered fit that allows the spinner to spin true about the propeller's central axis.
The uncut spinners are available in various diameters.

Description	Part No.	Price
10" Spinner	05-12764	**$733.00**
12" Spinner	05-12765	**$689.00**
13" Spinner	05-12766	**$750.00**

PROP GUARD SEAM ROLLER TOOL

This rubber coated roller makes working air bubbles out during installation easier than using the spatula included with the PROP GUARD kit. The rubber conforms to the shape of the propeller, and the rolling action allows you to press harder to eliminate small air bubbles. It is recommended for customers who may be installing more than one PROP GUARD or those who just want to make the job faster and easier.....P/N 05-11984 .....**$30.50**

PROP & SPINNER POLISHING KIT

This kit was developed specifically to maintain the propeller and spinner on prop & spinner in pristine condition.
P/N 09-23525 .....**$43.85**

PROP PROTRACTOR

Perfect for precision setting of all ground-adjustable props, as well as precision alignment of control surfaces.
P/N 05-31970 ..... **$71.75**

HARTZELL PROPELLER HARDWARE

Description	Part No.	Price
Hartzell Prop O-ring C-3317-228	05-11998	**$7.50**
Hartzell Prop O-ring C-3317-230	05-12380	**$8.99**
Hartzell Prop Fiber Washer A-1020	05-11999	**$1.32**

PROP EXTENSIONS – DUC PROPELLERS

AP

CRUSH PLATES FOR WOOD PROPS

OD	Thickness	Bolt Circle	Bolt Dia.	Part No.	Price
6”	3/8”	SAE 1 (4.375”)	3/8”	05-02464	**$100.75**
6”	3/8”	SAE 2 (4.75”)	3/8”	05-02465	**$100.75**
7”	3/8”	SAE 2	3/8”	05-02466	**$121.75**
7”	3/8”	SAE 2	7/16”	05-02467	**$122.75**
7”	3/8”	SAE 2	1/2”	05-02468	**$110.75**
7”	1/2”	SAE 2	3/8”	05-02469	**$137.80**
7”	1/2”	SAE 2	7/16	05-02470	**$133.75**
7”	1/2	SAE	1/2	05-02471	**$137.80**

PROP SPACERS

Solid Prop Spacers, 6 thru holes. The prop bolt goes thru the prop and spacer and threads into the engine.

Bolt Diameter	Part No.	Price
Prop Spacer 1.5”x5” Rotax	05-02472	**$471.00**
Prop Spacer 2”x5” Rotax	05-02473	**$472.00**
Prop Spacer 2.25”x5” Rotax	05-02474	**$471.00**
Prop Spacer 3”x5” Rotax (Spool)	05-02475	**$550.00**
Prop Spacer 4”X5” Rotax (Spool)	05-04418	**$499.00**

05-28310

05-28410

DRIVE LUGS FOR EXTENSIONS

Part No.	Type	O.D.	Thread	Price Ea.
05-28310	Threaded	5/8	3/8-24	**$43.70**
05-04417	Threaded	5/8”	7/16-20	**$45.50**
05-28410	Threaded	3/4	1/2-20	**$48.50**

DUC SWIRL PROPELLERS

The aerodynamic design of this propeller has been designed to have a "constant speed" effect.
The blades that are made from unidirectional layers of carbon fiber prepeg epoxy and their structure has been defined in order to obtain the maximum stresses in torsion and bending. Therefore the effect of "constant speed" is not related to the deformation of the blade but its geometry and its particular profile.
Because of the extra flat profile and low chord,excellent performance is obtained in both: Aerodynamic and acoustic performance, but also in fuel consumption.
Thanks to the "constant speed" effect, there is very small engine speed difference between the aircraft on ground and in flight.
This propeller allows for excellent performance throughout the flight envelope including:
• Improved efficiency at takeoff and climb rate due to higher engine speed
• Many cruise extension
• A high user comfort
Propeller is available in Two-Blade and Three-Blade.
For engines with high power, its structure can be reinforced (SWIRL-R).
The Inconel SWIRL blade is protected with Inconel metallic reinforcement.
It increases the life of the propeller and also its performance due to a change in its inertial behavior.

DUC SPINNERS

The DUC spinners are carried out in preimpregnated carbon fiber materials with on the surface woven carbon fabric.
The mounting plate, entirely out of carbon, thickness 0.12" (3mm), is produced with the Carbon Forge® process, also used for the manufacture of the DUC propeller hubs.
This patented process makes it possible to increase considerably the mechanical characteristics of the composite parts.

PROP EXTENSIONS

Precision machined prop shaft extensions are available from Aircraft Spruce & Specialty Co. Don’t settle for lesser quality at advertised “savings”. Prop extensions are machined from solid 2024 T-351 aluminum bar, and are supplied with clear anodized finish and stainless steel drive lugs (installed). 7” diameter prop side is recommended for 0-320 engines running wood props, and is required for 0-360 engines (or larger) running wood props. For Cont. 0-200, you may choose 5.5” diam on engine side. If prop is metal, please measure depth of drilled counterbore at all 6 bolt hole positions.

Flange Engine	SAE No.	Bolt Circle	Lug Dia.	Eng. Bolt Dia.
Cont. A-65, A-75,	SAE 1	4-3/8	5/8”	3/8”
C-85, C-90, 0-200				
Lycoming 0-235	SAE 1 or 2		5/8”	3/8”
Lycoming 0-290	SAE 2	4-3/4”	5/8”	3/8”
Lycoming 0-320	SAE 2	4-3/4”	5/8”	3/8” or 7/16”
Lycoming 0-360	SAE 2	4-3/4”	3/4”	1/2”
Lycoming O-540	SAE 2	4-3/4”	3/4”	1/2”

PLEASE ORDER USING THE FOLLOWING PART NO.

___X____–____E –____P_____– SAE___– ENGINE – PROP – PROP HUB BLADES

length	diam prop side (6 or 7)	engine bolt 3/8 or 7/16 or 1/2	prop bolt 3/8 or 7/16 or 1/2	thr or non (threaded or non-threaded lugs installed in extension)	1 or 2	(wood or composite or metal)	(wood or composite or metal)

Example: 4 X 7 - 7/16 E - 3/8P thr - S2 - Lyc 0320 - wood - wood

12 HOLE SOLID PROP EXTENSION WITH THREADED DRIVE LUGS

Length x Dia.	Length x Dia.
1.25”x6”	1.25”x7”
2.25”x6”	2.25”x7”
3”x6”	4”x7”
4”x6”	6”x7”
8”x6”	8”x7”
	8”x8”

PRICES ON PROP EXTENSIONS CAN VARY PER APPLICATION PLEASE CALL AND REQUEST A QUOTE FOR YOUR APPLICATION.

10351

PROP HUB FRONT PLATES

Required for wooden propellers. Flange equivalent to Cont. P/N 3991. For use with A-65, C-85 installations or Lyc. 0-235 with SAE1 (43/8”) bolt pattern .....P/N 10351 Cont.....**$51.75**

Flange equivalent to Lyc. P/N 45688, for use with Lyc. 0-235 thru 0-360 engines with SAE2 Bolt Pattern engines .....P/N 10352 Lyc..... **$54.75**

DUC FC WINDSPOON PROPELLERS

The FC WINDSPOON propeller, with its revolutionary shape called WINDSPOON, offers unrivalled performance.
Its technical innovations have several consequences:
• Better performance.
• Lower fuel consumption
• Less Noise
The very special profile of the FC WINDSPOON blade has been calculated to optimize the airflow over the whole surface of the WINDSPOON.
The offset of the twisting results in better reduction of friction and a longer life.
The FC WINDSPOON propellers are produced in accordance with the strictest standards of the industry, with unique equipment specially made to ensure the highest quality.
Propeller is available in Two-Blade and Three-Blade.
For engines with high power, its structure can be reinforced (FC-R WINDSPOON).
The Inconel FC WINDSPOON blade is protected with Inconel metallic reinforcement. It increases the life of the propeller and also its performance due to a change in its inertial behavior.
Available Diameter: 068”

SEE WWW.AIRCRAFTSPRUCE.CA FOR COMPLETE DISCRIPTIONS & PRICING ON ALL DUC PROPELLERS, SPINNERS, AND ACCESSORIES.

SMOKE SYSTEMS

SMOKE SYSTEM KIT MODELS SA-100 SERIES

All of the SA-100 series smoke system oil tanks are the same size (dimensions). Models Differ by oil suction tube design, oil pump mounting location and oil tank configuration. **Note: All kits are available with 12 or 24 volt DC smoke oil pumps. Please specify 12 or 24 volt DC when ordering.**

SA-101

- For continuous inverted flight.
- Top mounted oil pump.
- All hardware for complete installation.
- Step by step instructions.
- Height (To top of fill cap is) is 15”
- Width (End where oil pump is mounted) is 11”
- Depth (Pump to opposite end of tank) is 8.5”
- Oil tank capacity: 3.5 US Gallons
- Approx. oil used per minute: .8 Us Gallons
- Approx. total run time: 5+ minutes.....P/N 05-01439 .....**$1,818.00**

NOTE: Add 1.5” to base on each side or end for bracket width.

SMOKE SYSTEM KIT MODELS SA-200 SERIES

Both of the SA-200 series smoke system oil tanks are the same size (dimensions). Models Differ by oil suction tube design.

SA-201

- For continuous inverted flight.
- Any Dimension top.
- Pump can be mounted on top or any side surface.
- Fill cap and any other fittings installed where you want them.
- All hardware included for complete installation.
- Height (To top of fill cap is) is 14”
- Width (End where oil pump is mounted) is 10”
- Depth (Pump to opposite end of tank) is 17.25”
- Oil tank capacity: 5.5 US Gallons
- Approx. oil used per minute: .8 Us Gallons
- Approx. total run time: 7+ minutes.....P/N 05-02891 .....**$2,001.00**

NOTE: Add 1.5” to base on each side or end for bracket width.

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ACCESSORIES FOR THE SA-100 & SA-200 SERIES

SMOKING AIRPLANES EXTERNAL FILL KIT

This kit has everything right down to the vinyl letter transfer “Smoke Oil Only” and detailed installation instructions.

P/N 05-03595 ..... **$154.75**

SMOKE SYSTEM FIREWALL T BULKHEAD ASSEMBLY

This is a complete assembly of several parts (7 parts) to penetrate your firewall. It is NOT just a plain bulkhead fitting alone. Available with 90 degree hose fitting as shown or 45 degree or straight hose fitting.

P/N 05-15345 ..... **$89.75**

SMOKE SYSTEM FLOP TUBE COMPLETE ASSEMBLY

Complete Flop Tube. If you are making your own tank you will need this if you do any acro at all. Included is a 1/2 npt fitting for welding into your aluminum tank. It screws directly into this fitting. Cut tubing to your desired length.

P/N 05-15344 ..... **$88.75**

SMOKE OIL TRANSFER PUMP KIT

No more spills! Fill your smoke oil tank quickly and cleanly with this 8 gallon per minute smoke oil transfer pump kit. Made with high quality components including Goodyear rubber hose, heavy duty pump, dispensing nozzle with built in swivel and aluminum hose connection fittings with filter screen and clamps! All you will need to complete the kit is any automotive (or aircraft) type 12 Volt DC battery, and your container of smoke oil! The step by step instruction manual makes set up and use safe and easy. This kit will work with any smoke oil supply container. **Included**: Dispensing nozzle with built in swivel and ¾” barb fitting, Oil pump with built in on/off switch and 6 foot cable with clamps for connection to battery, 18 foot x ¾” id delivery hose and 13 foot x ¾” id suction hose, Suction screen barb fitting and oil pump barb fittings with clamps ..... P/N 05-04971 ..... **$412.00**

SMOKE SYSTEM 1 WAY CHECK VALVES

This kit uses one way check valves, it is for those who are serious about ending smoke dribble. No electric solenoid needed and this is as good as it gets. Attaches to Injector and existing oil line. These are custom made to my specifications, not an off the shelf item.

P/N 05-15346 ..... **$298.95**

SMOKE OIL PUMP TO TANK MOUNTING KIT

Kit enables you to mount the pump anywhere on the tank that you like. Kit contains 2 mounting bars which are attached to the tank using a 2 part structural epoxy. The pump attaches to the bars.

P/N 05-15347 ..... **$81.75**

SMOKING AIRPLANES SMOKE OIL PUMP ONLY

The kit includes: • 1 Smoke Oil Pump • 1 Molex Quick Disconnect Wire Harness • 1 Instructions • 1 90 Degree AN-6 Fitting • 2 Straight AN-6 Fittings • 2 14 Gauge Wire Butt Connectors • Screws, Nuts Washers – Mounting Hardware • Customer Must Specify 12 Volt DC or 24 Volt DC.

12V.....P/N 05-04477 ..... **$565.00**

SMOKE SYSTEMS

HOMSLEY SMOKE SYSTEMS

All tanks come with an aerobatic flop tube installed and a vented filler cap plus a separate vent fitting. COMPLETE is the key word, tank, two oil injectors, low pressure and stainless steel, hoses, all hose ends, oil pump, oil regulator valve, on/off switch, bulkhead fitting, wire with connections, zip ties, all screws, bolts, nuts, washers, everything you need is in the box along with complete written and photo directions. Typical install time is 1 full day.

Description	Part No.	Price
Smoke System Complete Kit Aluminum 3 Gal	05-11543	**$1,251.00**
Smoke System Complete Kit Aluminum 4 Gal	05-11544	**$1,300.00**
Smoke System Complete Kit Rv-6-7-9 Hidden Tank	05-11545	**$1,449.00**
Smoke System Complete Kit Rv-8 Deep Well Tank	05-11546	**$1,449.00**
Smoke System Complete Kit Aluminum 8 Gal	05-11550	**$1,484.00**
Smoke System Complete Kit Rv-14 Hidden Tank	05-15339	**$1,449.00**
Smoke System Complete Kit Aluminum 5 Gal	05-15340	**$1,369.00**

HOMSLEY ACCESSORIES		
Description	**Part No.**	**Price**
3 Gallon Aluminum Universal Tank 12x8x8	05-11537	**$330.00**
4 Gallon Aluminum Universal Tank 12x9x9.5	05-11538	**$347.00**
8 Gallon Aluminum Universal Tank 12.5 x 12.5 x 12.5	05-11539	**$493.00**
4.25 Gallon Hidden Oil Tank For Rv-6-7-9	05-11540	**$519.00**
7.5 Gallon Fuel Tank For Rv-6-7-9	05-11542	**$690.00**
4 Gallon RV-8	05-11549	**$475.00**
Smoke Oil Pump	05-11548	**$413.00**
Smoke Oil Regulator Valve	05-11547	**$94.90**

HOMSLEY SMOKE OIL PUMPS

A good oil pump is critical to having a good smoke system. This pump will save you a lot of time and headaches being designed specifically to pump oil.

Specifications:
- 6" Length x 3" Diameter
- Mounting Plate: 3.25" x 4.5"
- 3/8 MPT Female Fittings
- 1.5 gallons per minute at 35 psi
- Weight: 3.5 pounds

12V .....P/N 05-11548 .....**$413.00**
24V .....P/N 05-21991 .....**$416.00**

HOMSLEY SMOKE OIL INJECTOR

Homsley Smoke Oil Injector, sprays oil in a razor thin 180 degree pattern for more smoke using less oil. No welding required. Attaches to exhaust pipe thru a ¼ inch hole and a single hose clamp. Two required for great smoke.

P/N 05-06918 .....**$143.75**

COPPER STATE AVIATION SMOKE OIL

Copper State Petroleum's Aviation Smoke Oil is a low viscosity, amber colored petroleum base oil for many aviation smoke applications. It is non-toxic and specially formulated to produce a brilliant white smoke trail with incredible hang time.

Features: • Made from highly refined base stocks and contains no additives that can harm smoke systems • Its low viscosity and ability to produce billowing white smoke clouds that are reluctant to dissipate make it the perfect choice for professionals looking to impress a crowd • Its non-flammable formulation makes it an extremely safe and superior alternative to dangerously ignitable home-made oil and fuel mixtures.

1 Gallon Bottle.....P/N 05-06946 .....**$37.95**
5 Gallon Pail.....P/N 05-06947 .....**$122.75**
55 Gallon Drum ...P/N 05-06948 .....**$580.00**

SNAKE OIL SMOKE OIL

This Smoke Oil is completely environmentally friendly, pure and clear as a glass of water. On many planes a slight amount of smoke gets into your cockpit, this oil has almost no odor and will not burn your eyes or lungs like some inferior quality oil.

5 Gallon.....P/N 05-15341 .....**$156.99**
55 Gallon.....P/N 05-15342 .....**$713.00**

SUPER-DRI® SKYSMOKE AVIATION FLUID

Super Dri® SkySmoke® Aviation Smoke Fluid is a professional grade, crystal clear, proprietary blend of the best fluids available. Super Dri®, established in 1976, formulated SkySmoke® especially for aircraft to be the cleanest, best smoking fluid available. SkySmoke® provides the most intense smoke and longest hang time. SkySmoke® is Environmentally Safe, Non-Hazardous and Non-Staining. Super Dri® may be used in wind tunnels, leak testing, special effects or anywhere intense smoke is required.

1 Gallon .....P/N 05-04972 .....**$110.75**
5 Gallon .....P/N 05-04975 .....**$413.00**
55 Gallon .....P/N 05-04976 .....**$2,737.00**

55 GALLON IS DROP SHIP ONLY.

SMOKING AIRPLANES PREMIUM BLEND SMOKE OIL

Smoking Airplanes Premium Blend Smoke Oil is recommended for use with all Smoking Airplanes brand smoke system kits.

Developed for maximum atomization through Smoking Airplanes LLC smoke oil injectors, it consists of a high grade paraffinic mineral oil blended with other proprietary ingredients to produce a full bodied, persistent, clean burning, brilliant white smoke trail.

Features: • Brilliant white smoke • Persistent hang time • Equal or better than leading smoke oil brands.

5 Gallon.....P/N 05-06949 .....**$248.95**

SEAT BELTS & SHOULDER HARNESSES

FAA CERTIFIED PERSONAL RESTRAINTS

These are top quality, new manufactured assemblies. They are designed, manufactured, and proof tested to rigid FAA standards. All belts use proven lift to release style Davis metal to metal buckles. Push-to-release buckles are not used due to difficulties in releasing under emergency conditions. Aircraft quality alloys and 2-inch nylon webbing are used throughout. Belts are certified to FAA TSO-C22f.

STYLE NO. 1A SEAT BELT

Most popular metal-to-metal seat belt. This 56" adjustable seat belt offers a heavy-duty combination of an all-nylon 2" wide herringbone webbing and a metal-to-metal "quick release" buckle. Buckle mates with harness adapters (Shoulder Harness Items 3B or 3C) for safety belt/harness set or use belt alone. The end fittings for each side of the lap belt have a .325 in. dia. hole which allows for a fastener/bolt to slide through, depending on the design of the aircraft/aircraft seat is where it attaches.

Part No.	Color	Price
13-00201	Black	**$203.95**
13-00202	Brown	**$179.75**
13-00203	Tan	**$180.75**

Part No.	Color	Price
13-00204	Navy Blue	**$190.75**
13-00205	Royal Blue	**$169.75**
13-00206	Gray	**$179.75**

STYLE NO. 1B SEAT BELT

Same as style No. 1A above except with #442868 clip type end fittings. The end fitting hooks have spring loaded clips that allows each side of the lap belt to clip on to an existing fastener or rod. When the clip is closed the effective hole dia. for both these belts is .37 in.

Part No.	Color	Price
13-00301	Black	**$137.90**
13-00303	Tan	**$147.75**
13-00306	Gray	**$155.75**

STYLE NO. 2A SEAT BELT

If belts are needed to replace worn ones in an aircraft in which the attachment fittings have been installed and approved, it is customary to install belts with a slide adjustment bar which permits weaving webbing through existing fitting and through bar for secure installation. Drawing shows correct method of lacing the webbing through bar. Belt is 56" long x 2" wide.The end fittings for each side of the lap belt have a .325 in. dia. hole which allows for a fastener/bolt to slide through, depending on the design of the aircraft/aircraft seat is where it attaches.

Part No.	Color	Price
13-00401	Black	**$214.95**
13-00402	Brown	**$210.95**
13-00403	Tan	**$519.00**
13-00406	Gray	**$183.75**

STYLE NO. 2B SEAT BELT

Same as style No. 2A above except with #442868 clip type end fittings. Standard equipment in White Lightning aircraft. Black only.

P/N 13-19601 .....**$230.95**

STYLE NO. 5 SEAT BELT/HARNESS SET FOR HOMEBUILTS

Specially designed for the VariEze, this popular combination is also used in the Long-EZ, Quickie, Q2, Cozy, Sea Hawk and several other homebuilts. The belts are made to fit snugly, and the aluminum end fittings save weight. Order two sets for all above aircraft except Quickie which uses one set. Not FAA approved for certificated aircraft.

P/N 13-01300 ..**$744.00 Set**

STYLE NO. 3A "Y" SHOULDER HARNESS

Harness with stitched-in webbing loops for use with any 2" wide seat belt. Belt simply slides through loops and secures. Harness is "Y" type with one attachment fitting furnished.

Black Only .....P/N 13-00601 ..... **$195.75**

STYLE NO. 3B "Y" SHOULDER HARNESS

Harness with two chrome-plated steel adapters on front webbing extensions which mate with metal-to-metal buckle for safety belt/harness set. Harness is "Y" type with one attachment fitting furnished. Lift buckle to release belt and harness. Order belt separately.

Black Only .....P/N 13-00701 .....**$206.95**

STYLE NO. 3C TWO STRAP SHOULDER HARNESS

Harness with two chrome-plated steel adapters on front webbing extensions which mate with metal-to-metal buckle for safety belt/harness set. Harness has two separate straps with two attachment fittings furnished. Lift buckle to release belt and harness. Order belt separately.

Black Only .....P/N 13-00801 .....**$227.95**

STYLE NO. 4 – MILITARY STYLE SEAT BELT AND SHOULDER HARNESS COMBINATION

Harness has forged steel belt buckles permitting "one-stroke" release from both belt and harness. Stocked in Black.

Complete Set(Black) .....P/N 13-01000 .....**$488.00**
Certified Belt Only .....P/N 13-01100 .....**$345.00**
Harness Only(Black) .....P/N 13-01200 .....**$143.75**

OTHER COLORS

	Olive Green	Price	Royal Blue	Price	Neutral	Price
Set Kit	13-04105	---	13-04124	**$477.00**	---	---
Belt	13-04106	---	13-04125	**$345.00**	13-04119	**$396.00**
Harness	13-04107	**$134.90**	13-04126	**$132.75**	---	---
	Silver Grey	**Price**	**Brown**	**Price**	**Navy Blue**	**Price**
Set Kit	13-04108	**$481.00**	13-04127	**$477.00**	13-04130	**$486.00**
Belt	13-04109	**$347.00**	13-04128	**$347.00**	13-04131	**$348.00**
Harness	13-04110	**$134.90**	13-04129	**$130.80**	13-04132	**$139.75**
	Red	**Price**	**Tan**	**Price**		
Set Kit	13-04121	**$478.00**	13-04133	**$478.00**		
Belt	13-04122	**$345.00**	13-04134	**$347.00**		
Harness	13-04123	**$133.75**	13-04135	**$132.75**		

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CROW RESTRAINTS

CROW KAM LOCK Y HARNESS RESTRAINT SYSTEM FOR RV-6 / RV-7 / RV-9 / RV-14

Crow restraint systems feature 5-Way Kam Lock, 50" Seat Belt Pull Up Adjustment, Y-Type Harness & Anti Submarine belt with all points bolt in.

Version	Part Number	$319.00
Left Only With Pads	05-26591	**$319.00**
Left Only Without Pads	05-26590	**$272.95**
Right Only With Pads	05-26593	**$319.00**
Right Only Without Pads	05-26592	**$272.95**

CROW CAM LOCK RESTRAINT SYSTEM FOR RV-10A

Crow restraint systems feature 5 attach points and are available in Latch & Link or Cam Lock versions. For RV series aircraft, the Cam Lock version is most popular. These restraint systems are available with or without 2 inch sewn-on shoulder pads, which are the same color as the rest of the belts and harness.

Position	Version	Front Part No.	Price
Front	Left With Pads	05-26599	**$315.00**
Front	Left Without Pads	05-26598	**$268.95**
Front	Right With Pads	05-26601	**$315.00**
Front	Right Without Pads	05-26600	**$268.95**
Rear	Left With Pads	05-26603	**$318.00**
Rear	Left Without Pads	05-26602	**$272.95**
Rear	Right With Pads	05-26605	**$318.00**
Rear	Right Without Pads	05-26604	**$272.95**

CROW KAM LOCK RESTRAINT SYSTEM FOR RV4 / RV8

Crow restraint systems feature 5 attach points with a 2" Kam Lock restraint, the most popular option for RV series aircraft. 50" Seat Belt Pull Up Adjustment. Individual Harness & Anti-Submarine Belt. Front Seat Harness Wrap Around. Back Seat Harness Bolt-in. These restraint systems are available with or without 2 inch sewn-on shoulder pads, which are the same color as the rest of the belts and harness.

Version	Part Number	$319.00
Front With Pads	05-26595	**$319.00**
Front Without Pads	05-26594	**$272.95**
Rear With Pads	05-26597	**$322.00**
Rear Without Pads	05-26596	**$274.95**

05-04949

With Pads

Without Pads

CROW LATCH LINK Y HARNESS RESTRAINT SYSTEM FOR RV-6 / RV-7 / RV-9 / RV-14

Crow restraint systems feature 5-Way Latch & Link, 50" Seat Belt Pull Up Adjustment, Y-Type Harness & Anti Submarine belt with all points bolt in.

Version	Part Number	Price
With Pads	05-26607	**$215.95**
Without Pads	05-26606	**$169.75**

CROW LATCH LINK RESTRAINT SYSTEM FOR RV-10A

Crow restraint systems feature 5 attach points and are available in Latch & Link or Cam Lock versions. For RV series aircraft, the Cam Lock version is most popular. These restraint systems are available with or without 2 inch sewn-on shoulder pads, which are the same color as the rest of the belts and harness.

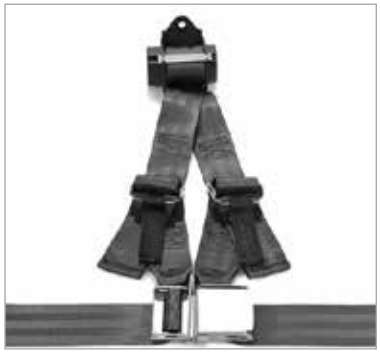
Version	Part Number	Price
Front With Pads	05-26613	**$214.95**
Front Without Pads	05-26612	**$168.75**
Rear With Pads	05-26615	**$224.95**
Rear Without Pads	05-26614	**$179.75**

CROW LATCH LINK Y HARNESS RESTRAINT SYSTEM FOR RV-8 & RV-8A

Crow restraint systems feature 5-Way Latch & Link, 50" Seat Belt Pull Up Adjustment, Y-Type Harness & Anti Submarine belt with all points bolt in.

Version	Part Number	Price
Front With Pads	05-26609	**$214.95**
Front Without Pads	05-26608	**$168.75**
Rear With Pads	05-26611	**$224.95**
Rear Without Pads	05-26610	**$179.75**

ABI AVIATION RESTRAINTS



For more than 35 years, Aircraft Belts, Inc. (ABI) has been a global leader of quality aircraft restraint systems for aircraft worldwide. Aircraft Spruce carries ABI restraint systems for Cessna 150K-M, Cessna 152, Cessna 172D-Q, Cessna 177, Cessna 182A-R / R182 / TR182, Cessna 208-208B Caravan, Beech 36/A36/A36TC/B36TC/ G36 King Air 350, Bell 206, Bell 407, Bell 412, PIPER PA 28/32 and single and twin engine Piper Aircraft.

SEE WWW.AIRCRAFTSPRUCE.CA FOR PART NUMBERS & PRICING FOR YOUR AIRCRAFT APPLICATION.

SIMPSON AVIATION RESTRAINTS

5-POINT CAMLOCK

7-POINT CAMLOCK

Complete harness systems from Simpson Performance features 5-point aviation harnesses for a wide variety of experimental aircraft, aerobatic planes and historical/military restoration planes. Simpson aviation harnesses are a premier line made in the USA and backed by Simpson's 60 years of experience and research in motorsports safety.

Simpson Flight uses only the best materials and hardware. Lightweight aluminum adjusters are the smoothest in the industry and provide exceptional locking action. Simpson harnesses are premium polyester webbing only. Polyester minimizes elongation and sunlight degradation. Polyester also absorbs energy better in a crash. Simpson aviation harnesses are engineered with proven racing technology to offer you top of the line performance and safety.

SEE WWW.AIRCRAFTSPRUCE.CA FOR PART NUMBERS & PRICING FOR YOUR AIRCRAFT APPLICATION.

AMSAFE RESTRAINT SYSTEM (SOARS)

The State of the Art Restraint System (SOARS) is a universally adjustable lapbelt airbag restraint system designed to mitigate head and torso injury in aircraft crash conditions. It is STC eligible for installation in over 600 Part 23 aircraft, as well as all experimental aircraft.

With over a billion hours of logged service, AmSafe Airbag Systems are utilized in commercial aircraft, business jet and turboprop aircraft as well as general aviation to protect pilots, co-pilots and passengers. SOARS is an affordable, yet significant enhancement for general aviation occupant protection.

Each SOARS kit includes a complete airbag restraint system for both the Pilot & Co-Pilot seats, replacing the original pilot and co-pilot 2 or 3-Point standard restraints. ..... P/N 05-22028 ..... **$4,428.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

BALLISTIC PARACHUTES SYSTEMS

CANISTER - The BRS Canister is waterproof when the original factory seal remains intact, making it the perfect design for exterior installations. With a six year repack schedule and versatile mounting hardware, it is one of the most popular systems.

SOFTPACK - The BRS Softpack is best suited for aircraft manufacturers that require a ballistic parachute mounted inside their aircraft. When mounted internally, this system also has a six year repack schedule.

VLS - Built specifically for aircraft with limited interior space, the VLS (Vertical Launch System) installs on top of the wing or fuselage. Upward firing works well with pusher designed aircraft.

SEE OUR WEBSITE FOR COMPLETE LIST OF BRS SYSTEMS FOR GENERAL AVIATION, LSA, ULTRALIGHT, AND EXPERIMENTAL AIRCRAFT.

NAVION SEAT BELTS AND SHOULDER HARNESSES

Navion Shoulder Harness Kits
2 Point Read
3 Point Diagonal Systems

- Complete New Belt Assemblies
- Shoulder and Lap Belts for 2 Seats - Pilot & Co-Pilot
- All Required Hardware
- Instruction Manual
- Supplemental Type Certificate

Description	Part No.	Price
Bucket/Drill Tower - Front Pilot/Co-Pilot IR	05-15042	**$953.00**
Bucket/Drill Doublers - Front 3 Pt. Pilot/Co-Pilot DIR (Mounts to Seat)	05-15043	**$953.00**
Black Standard Tube Frame -Front 3 Pt. Pilot/Co-Pilot DIR	05-15045	**$953.00**
Gray Standard Tube Frame - Front 3 Pt. Pilot/ Co-Pilot DIR	05-15046	**$953.00**
Fawn Standard Tube Frame - Front 3 Pt. Pilot/Co-Pilot DIR	05-15047	**$953.00**
Rangemaster - Front 3 Pt. Pilot/Co-Pilot IR	05-15048	**$953.00**
Rear Seat Lap Belt - 2 Pt. Passenger Position	05-15049	**$205.95**
Rear Seat - 3 Pt. Restraint FS	05-15050	**$758.00**

SEAT BELT HARDWARE

CLIP TYPE END FITTING
P/N 442868 (Steel)
$50.50 Ea.

SLIDE ADJUSTER
P/N 442663
$31.75 Ea.

TRIANGULAR END FITTING
P/N 13-04101
$34.50 Ea.

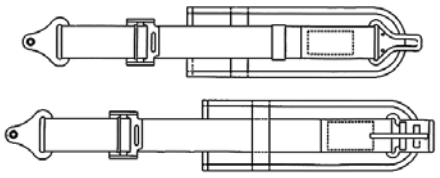
HOOKER CUSTOM HARNESSES

SPORT HARNESS SET (PER SEAT)

The popular Sport Harness kit from Hooker is ideal for a wide variety of experimental aircraft. The set includes one 1-3/4" military style seat belt, one 1-3/4" military style shoulder harness, one 1-3/4" crotch strap, one pad set and yoke assembly for front seat.

With pad set ..... P/N 13-00925 ..... **$459.00**
With pad rear ..... P/N 13-08054 ..... **$414.00**
Without crotch strap ..... P/N 13-00930 ..... **$385.00**

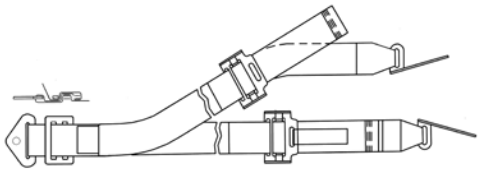
AEROBATIC HARNESS SET (PER SEAT)



The Hooker Aerobatic Harness kit is very popular with sport and competitive aerobatic pilots. The set includes two 1-3/4" military style seat belt, one 1-3/4" military style shoulder harness, one 1-3/4" crotch strap, one pad set and yoke assembly for front seat.
Note: The aerobatic is the same with the exception of the ratchet being replaced with a standard adjuster.

With one pad set ..... P/N 13-00935 ..... **$515.00**
With stainless ratchet tightener ..... P/N 13-00950 ..... **$758.00**

HOOKER CESSNA FIXED SHOULDER HARNESS KIT (PER SEAT)



This set includes new double adjustable seat belt, shoulder harness, installation kit with necessary hardware, brackets and the STC paperwork. The STC currently covers installation in Cessna models 120, 140, 140A, 150, 152, 170, 172, 175, 180, 182 (except R182 and TR 182), 185, 205, 206, and 210 (through F model). Installation of this set does not require drilling holes in the external skin or the removal of the wings. The installation is accomplished from within the airplane and installation time usually runs 60-90 minutes with the headliner removed. Pads are not included. ..... P/N 13-00955 ..... **$370.00**

NOT AVAILABLE IN THE REAR. SPECIFY AIRCRAFT TYPE & COLORS OF WEBBING WHEN ORDERING.

COLORS AVAILABLE (HOOKER)

2" Webbing: Red, Dragon Red, Burgundy, Orange, Air Force Gold, Olive Drab, Sage Green, Baby Blue, Royal Blue, Navy Blue, Tan, Beige, Silver Gray, Dark Gray, Black

1-3/4" Webbing: Red, Air Force Gold, Kelly Green, Olive Drab, Sage Green, Jade Green, Royal Blue, Navy Blue, Purple, Silver Gray, Dark Gray, Tan, Black

Pad Fabric: Red, Burgundy, Navy Blue, Royal Blue, Lemon Yellow, Air Force Gold, Dark Gray, Olive Drab, Sage Green, Silver Gray

Pink, Turquoise, Orange, Green, Jade, Lavender, Purple, Tan, Brown, Black

Trim: Red, Burgundy, Navy Blue, Royal Blue, Lemon Yellow, Air Force Gold, Dark Gray, Olive Drab, Sage Green, Silver Gray, Pink, Turquoise, Orange, Green, Jade, Brown, Lavender, Purple, Tan, Black

SPECIFY WEBBING,(PAD TRIM AND PAD COLORS WHERE APPLICABLE) WHEN ORDERING ALL HOOKER HARNESS PRODUCTS

NOTE: SEE PREVIOUS PAGE FOR SHOULDER HARNESSES COMPATIBLE WITH THESE SEAT BELTS.

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CESSNA & PIPER SEAT BELTS & HARNESSES

BECAUSE WE KNOW SAFETY IS A PRIORITY IN YOUR AIRPLANE!

FAA Approved shoulder restraint systems in your aircraft provide the best possible safety for your crew and passengers. These were developed for affordable systems for production aircraft in cooperation with the FAA, therefore each H-600 series comes with an FAA STC/PMA. Our high quality belts come in a full array of colors. The kits include one standard belt with a 3-bar slide (retain your present fitting), one "Y" style shoulder harness (with attaching hardware) and installation instructions.

CESSNA HARNESS KITS - FAA APPROVED!

Harness/Seat Belt Installation Kits Only $303.00 / ea.

Choose from the following kits for your FAA/STC/PMA approved installation For Cessnas!

Cessna 120/140	
Color	**Part No.**
Black	13-00901-1
Brown	13-00901-3
Red	13-00901-5
Navy	13-00901-2
Royal Blue	13-00901-4
Tan	13-00901-6
Silver Gray	13-00901-8
Olive Green	13-00901-7

Cessna 150A-H, J-M A152/152	
Color	**Part No.**
Black	13-00902-1
Brown	13-00902-3
Red	13-00902-5
Navy	13-00902-2
Royal Blue	13-00902-4
Tan	13-00902-6
Silver Gray	13-00902-8
Olive Green	13-00902-7

Cessna 170A & B	
Color	**Part No.**
Black	13-00903-1
Brown	13-00903-3
Red	13-00903-5
Navy	13-00903-2
Royal Blue	13-00903-4
Tan	13-00903-6
Silver Gray	13-00903-8
Olive Green	13-00903-7

Cessna 172, A-I, K, L-N, P, F172N, P,	
Color	**Part No.**
Black	13-00904-1
Brown	13-00904-3
Red	13-00904-5
Navy	13-00904-2
Royal Blue	13-00904-4
Tan	13-00904-6
Silver Gray	13-00904-8
Olive Green	13-00904-7

Cessna 175A, B, C	
Color	**Part No.**
Black	13-00905-1
Brown	13-00905-3
Red	13-00905-5
Navy	13-00905-2
Royal Blue	13-00905-4
Tan	13-00905-6
Silver Gray	13-00905-8
Olive Green	13-00905-7

Cessna 180 A-H, J, K	
Color	**Part No.**
Black	13-00906-1
Brown	13-00906-3
Red	13-00906-5
Navy	13-00906-2
Royal Blue	13-00906-4
Tan	13-00906-6
Silver Gray	13-00906-8
Olive Green	13-00906-7

Cessna 182, A-H J-N, P-R, T, TR182	
Color	**Part No.**
Black	13-00907-1
Brown	13-00907-3
Red	13-00907-5
Navy	13-00907-2
Royal Blue	13-00907-4
Tan	13-00907-6
Silver Gray	13-00907-8
Olive Green	13-00907-7

Cessna 185A-E, A185E	
Color	**Part No.**
Black	13-00908-1
Brown	13-00908-3
Red	13-00908-5
Navy	13-00908-2
Royal Blue	13-00908-4
Tan	13-00908-6
Silver Gray	13-00908-8
Olive Green	13-00908-7

Cessna 206, U206A-F, TU206A-F	
Color	**Part No.**
Black	13-00909-1
Brown	13-00909-3
Red	13-00909-5
Navy	13-00909-2
Royal Blue	13-00909-4
Tan	13-00909-6
Silver Gray	13-00909-8
Olive Green	13-00909-7

Cessna 207, 207A T207, T207A	
Color	**Part No.**
Black	13-00910-1
Brown	13-00910-3
Red	13-00910-5
Navy	13-00910-2
Royal Blue	13-00910-4
Tan	13-00910-6
Silver Gray	13-00910-8
Olive Green	13-00910-7

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PIPER HARNESS KITS - FAA APPROVED!

J-3, PA-11 Harness Kits

Starting at **$303.00**

	Front	Rear
Black	13-00913-1	13-00914-1
Navy	13-00913-2	13-00914-2
Brown	13-00913-3	13-00914-3
Royal Blue	13-00913-4	13-00914-4
Red	13-00913-5	13-00914-5
Tan	13-00913-6	13-00914-6
Olive Green	13-00913-7	13-00914-7
Silver Gray	13-00913-8	13-00914-8

PA-18 Harness Kits

Starting at **$303.00**

	Front	Rear
Black	13-00921-1	13-00922-1
Navy	13-00921-2	13-00922-2
Brown	13-00921-3	13-00922-3
Royal Blue	13-00921-4	13-00922-4
Red	13-00921-5	13-00922-5
Tan	13-00921-6	13-00922-6
Olive Green	13-00921-7	13-00922-7
Silver Gray	13-00921-8	13-00922-8

PA-20 Front Seat Harness Kits

Starting at **$299.95**

Black	13-00915-1
Brown	13-00915-3
Red	13-00915-5
Navy	13-00915-2
Royal Blue	13-00915-4
Tan	13-00915-6
Silver Gray	13-00915-8
Olive Green	13-00915-7

PA-22 S-150, 160, PA-22/22-108, 135, 150, 160 Front Seat Harness Kits

Starting at **$303.00**

Black	13-00916-1
Brown	13-00916-3
Red	13-00916-5
Navy	13-00916-2
Royal Blue	13-00916-4
Tan	13-00916-6
Silver Gray	13-00916-8
Olive Green	13-00916-7

PA-28 Front Seat Harness Kits (Pair) starting at $744.00

Includes seat belts, harnesses and hardware for front seats.

Black	13-00917-1
Navy	13-00917-2
Brown	13-00917-3
Royal Blue	13-00917-4
Red	13-00917-5
Tan	13-00917-6
Olive Green	13-00917-7
Silver Gray	13-00917-8

For ceiling vent system, modification may be needed to the existing system for our seat belt/ shoulder harness installation. Drawings & instructions are unavailable for this modification.

AERONCA HARNESS KITS - FAA APPROVED!

Front Starting at **$308.00**

Black	13-00918-1
Navy	13-00918-2
Brown	13-00918-3
Royal Blue	13-00918-4
Red	13-00918-5
Tan	13-00918-6
Olive Green	13-00918-7
Silver Gray	13-00918-8

Rear Starting at **$308.00**

Black	13-00919-1
Navy	13-00919-2
Brown	13-00919-3
Royal Blue	13-00919-4
Red	13-00919-5
Tan	13-00919-6
Olive Green	13-00919-7
Silver Gray	13-00919-8

Note: Not approved for AC15 Aeronca

BEECH HARNESS KITS - FAA APPROVED!

35 Series A-G, R

Pilot Starting at **$332.00**

Black	13-00911-1
Navy	13-00911-2
Brown	13-00911-3
Royal Blue	13-00911-4
Red	13-00911-5
Tan	13-00911-6
Olive Green	13-00911-7
Silver Gray	13-00911-8

Co - Pilot Starting at **$408.00**

Black	13-00912-1
Navy	13-00912-2
Brown	13-00912-3
Royal Blue	13-00912-4
Red	13-00912-5
Tan	13-00912-6
Olive Green	13-00912-7
Silver Gray	13-00912-8

STINSON HARNESS KITS - FAA APPROVED!

Stinson 108-1, 2, 3

Starting at **$305.00**

Black	13-00920-1
Navy	13-00920-2
Brown	13-00920-3
Royal Blue	13-00920-4
Red	13-00920-5
Tan	13-00920-6
Olive Green	13-00920-7
Silver Gray	13-00920-8

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

SEAT BELTS/HARNESSES – FITTING/WEBBING

SEAT BELTS

Standard TSO'd. Standard metal to metal seat belt retrofits most popular production aircraft. High-strength nylon webbing, fully tested belt is rated at 1500 lbs. Belt features standard metal to metal type buckle and meets the latest FAA requirements. Adjusts from 13" to 62" in length. **FAA Approved!**

Color	3-Bar Slide (Retain your present end fittings.) starting at $123.90	Triangular & 3-Bar Slide starting at $132.75	Quick Disconnect & 3-Bar Slide starting at $191.75
Black	05-06225-2	05-06226-2	05-06227-2
Navy	05-06225-8	05-06226-8	05-06227-8
Brown	05-06225-7	05-06226-7	05-06227-7
Royal Blue	05-06225-6	05-06226-6	05-06227-6
Red	05-06225-5	05-06226-5	05-06227-5
Tan	05-06225-9	05-06226-9	05-06227-9
Olive Green	05-06225-3	05-06226-3	05-06227-3
Silver Gray	05-06225-4	05-06226-4	05-06227-4

Y-TYPE SHOULDER HARNESS

Hardware mates to buckle of model Cat. No. H-701 Series and most American Safety models. Retain your own aircraft fittings. Longest length, 79"; Shortest length, 29".1 lb. **FAA Approved!** ..... **starting at $141.80**

Color	Part No.	Color	Part No.
Black	05-06228-2	Red	05-06228-5
Navy	05-06228-8	Tan	05-06228-9
Brown	05-06228-7	Olive Green	05-06228-3
Royal Blue	05-06228-6	Silver Gray	05-06228-4

SEAT BELTS & "Y" HARNESS COMBINATION

Set includes one Cat. No. H-701 series seat belt with 3 bar slide and one Cat. No. H-702 series "Y" type shoulder harness with metal to metal hardware. Hardware not included. Retain your own aircraft fittings.
TSO'd Seatbelts PMA'd Shoulder Harnesses..... **starting at $217.95**

Color	Part No.	Color	Part No.
Black	05-06236-2	Red	05-06236-5
Navy	05-06236-8	Tan	05-06236-9
Brown	05-06236-7	Olive Green	05-06236-3
Royal Blue	05-06236-6	Silver Gray	05-06236-4

SEAT BELT END FITTINGS

Experimental Only.

05-06239

05-06237

05-06240

05-06241

Description	Part No.	Price
3-Bar Slide	05-06239	**$17.50**
Quick Disconnect Fitting	05-06237	**$48.99**
Triangular End Fitting	05-06240	**$20.65**
2" Chrome Seat Belt Tip Ends	05-06241	**$7.50**

2" SEAT BELT EXTENSIONS

Mates with Wag-Aero's seat belts only. 24" long.
Experimental Only.

starting at $76.95	Part No.	starting at $76.95	Part No.
Black	05-06230-2	Red	05-06230-5
Navy	05-06230-8	Tan	05-06230-9
Brown	05-06230-7	Olive Green	05-06230-3
Royal Blue	05-06230-6	Silver Gray	05-06230-4

AEROBATIC/MILITARY

FULL RESTRAINT

The ultimate for aerobatic competition, this full restraint system consists of a 3" lap belt with lap restraint pads, 2" shoulder harness with shoulder harness restraint pads, plus a fully adjustable crotch strap. Unique features allow for quick comfort adjustment, including a positive lock buckle with quick release. Black. 1500 lb. rating. Lap belt portion of restraint system is TSO'd. **Complete System** P/N 05-06238 ..... **$435.00**

MILITARY STYLE SEAT BELT

TSO'd. 3" metal to metal, heavy duty construction with military style quick release buckle for convenience. Extra strength webbing provides increased durability. Complete with triangle end fittings to accommodate most aircraft. Retain your own aircraft fittings. Adjusts from 33-1/2" to 49-1/2" in length. FAA Approved! ..... **starting at $345.00**

Color	Part No.	Color	Part No.
Black	13-01100	Royal Blue	13-04125
Olive Green	13-04106	Brown	13-04128
Neutral	13-04119	Navy	13-04131
Silver Gray	13-04109	Tan	13-04134
Red	13-04122		

AEROBATIC SHOULDER HARNESSES

Metal fitting for attachment to seat belt buckle. Easily adjustable, harness combines with the 3" aerobatic seat belt for a matched set. Retain your own aircraft fittings.
Experimental Only..... **starting at $144.80**

Divided Harnesses	Part No.
Black	05-06232-2
Olive Green	05-06232-3
Neutral	05-06232-1
Silver Gray	05-06232-4
Red	05-06232-5
Royal Blue	05-06232-6
Brown	05-06232-7
Navy	05-06232-8
Tan	05-06232-9

Y-Style Harnesses	Part No.
Black	13-01200
Olive Green	13-04107
Neutral	05-06234-1
Silver Gray	13-04110
Red	13-04123
Royal Blue	05-06234-6
Brown	13-04129
Navy	13-04132
Tan	13-04135

ADJUSTABLE CROTCH STRAP

Experimental Only

Color	Part No.	Price
Black	05-06233-2	**$86.85**
Navy	05-06233-8	**$87.99**
Brown	05-06233-7	**$87.99**
Royal Blue	05-06233-6	**$87.99**
Red	05-06233-5	**$87.99**
Tan	05-06233-9	**$87.99**
Silver Gray	05-06233-4	**$87.99**

Color	Part No.	Price
Lap Restraint Pads (Black)	13-10271	**$136.75/pr.**
Shoulder G-Restraint Pads (Black)	13-10272	**$68.90/pr.**

SEAT BELT WEBBING

Minimum order: 5 yards.

Meets AN, MS, NAS, or Mil. Spec.

	2" Webbing		3" Webbing	
Color	Part No.	Price/yd	Part No.	Price/yd
Black	05-06224-2	**$20.50**	05-06223-2	**$25.75**
Navy	05-06224-8	**$21.90**	05-06223-8	**$25.55**
Brown	05-06224-7	**$25.75**	05-06223-7	**$24.50**
Royal Blue	05-06224-6	**$22.50**	05-06223-6	**$25.95**
Red	05-06224-5	**$17.50**	05-06223-5	**$25.75**
Tan	05-06224-9	**$21.90**	05-06223-9	**$24.50**
Olive Green	05-06224-3	**$20.60**	05-06223-3	**$24.50**
Silver Gray	05-06224-4	**$21.90**	05-06223-4	**$25.55**

SEE OUR WEBSITE FOR COMPLETE LIST & PRICES.

AP

STC'D SEAT BELTS & SHOULDER HARNESSES

ALPHA AVIATION RESTRAINT SYSTEMS

Note: FAA/ STC/ PMA Installation kits include complete new TSO-C114 belt assemblies for each pilot position. FAA/ STC/ PMA Installation kits include all hardware to upgrade both pilot positions. OEM quality, AMSAFE Incorporated belt assemblies meeting TSO-C114. Standard colors are black, gray & fawn. For custom colors, please order the color swatches (P/N 05-03146). STC sets are for two seats; OEM sets are for one seat..

BEECHCRAFT STC SHOULDER HARNESS KITS

3 Point Diagonal Systems
• Complete New Belt Assemblies • Shoulder and Lap Belts for 2 Seats-Pilot & Co-Pilot • All Required Hardware • Instruction Manual • Supplemental Type Certificate
STC, 3RS-114FS Fixed Restraint, Kit .....P/N 05-03127 .....**$1,781.00**
STC, 3RS-114IR Inertial Reel, Kit .....P/N 05-03128 .....**$2,333.00**
Beechcraft Replacement Rear Lap Belt .....P/N 05-06886 .....**$187.75**
Approved Single Engine Models:
35, 35R, A35, B35, C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33
Approved Multi Engine Models:
95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B, 95-C55, 95-C55A, B95, B95A, D95A, D55, D55A, E55, E55A, E95, A56TC, 58, 58A

BEECH FIXED STRAP SHOULDER HARNESS KITS

FAA approved STC / PMA kit for the installation of 3 Point Diagonal (Single Strap Over) fixed strap (manually adjustable) shoulder harnesses in the 2 front seats (pilot and co-pilot) of an aircraft that did not come with factory installed shoulder harnesses.
Alpha Aviation's Beechcraft Fixed Strap STC Kit includes all of the required FAA PMA parts and hardware to create the shoulder harness attachment points in the pilot and co-pilot positions as well as TSO-C114 OEM quality AmSafe® 3-point diagonal belt assemblies.
Black Beech 3RS-114FR.....P/N 05-22914 .....**$1,781.00**
Cruiser Gray Beech 3RS-114FR.....P/N 05-22931 .....**$1,781.00**
Tan Beech 3RS-114FR.....P/N 05-22932 .....**$1,781.00**
Black 3RS-114IR.....P/N 05-22913 .....**$2,126.00**
Cruiser Gray 3RS-114IR.....P/N 05-22929 .....**$2,126.00**
Tan 3RS-114IR.....P/N 05-22930 .....**$2,126.00**

MOONEY SHOULDER HARNESS INSTALLATION

3 Point Diagonal Systems
• M20, A, B, C, D, E, F, G 3 Point Diagonal Harness Installation • M20J Replacement Seat Belts • Complete New Belt Assemblies - Shoulder and Lap Belts 3-Point System "Minor Change Kit" M20 A-G (Includes the Required Hardware for one Pilot Position) ..P/N 05-03139 .....**$34.50**
Mooney M20 Inertial Reel Upgrade Front Inertial Reel 1
P/N 05-06891 .....**$855.00**
M20 Replacement Front Fixed Strap.....P/N 05-06890 .....**$684.00**
Replacement Rear Lap Belt .....P/N 05-06888 .....**$184.95**
Applicable Models: M20 A thru K

COLOR SWATCHES

Color swatches for your desired color group are available to be shipped to you via priority mail. When you have chosen your color, you can place your order by phone (1-877-4-SPRUCE) or order online. Then return the color swatches to Aircraft Spruce and we will credit you the $25.00 charge when you place your order for seatbelts/ harnesses. For domestic orders only. International customers, please call for pricing. Custom color belts/harnesses are special order and are non-returnable. Lead time is three weeks for a custom color order.
P/N 05-03146.....**$34.50**

CESSNA STC SHOULDER HARNESS KITS

• Belt Assemblies -Shoulder & Lap Belts for Pilot & Co-Pilot • All Required Hardware • Instruction Manual • Supplemental Type Certificate
STC, C100-114IR, Front Inertial Reel, Kit ...P/N 05-03131 .....**$2,133.00**
STC, C100-114FS, Front Fix Strap, Kit.....P/N 05-04193 .....**$2,126.00**
177A/177B Minor Change Kit for 3-PT Front Seat (One)
P/N 05-22894 .....**$23.50**
200 Minor Change Kit for 3-PT Front Seat (One)
P/N 05-22895 .....**$23.50**

CESSNA OEM REPLACEMENT BELTS

• Replace Your Existing Shoulder Harnesses • Complete New Belt Assemblies - Shoulder and Lap Belts Cessna 100/200 OEM Replacement Front, Fixed Strap (Sold as each).....P/N 05-03132 .....**$684.00**
Cessna 100/200 OEM Replacement Inertial Reel, Upgrade.
Sold as each.....P/N 05-03133 .....**$855.00**
Cessna OEM Replacement (all models) Rear Lap Belts (Sold as each) .
P/N 05-06887 .....**$184.95**

CESSNA 177, 177A NEEDING SHOULDER HARNESS INSTALLATION KIT

177B Replacement Belt Assemblies OEM Replacement, 3-Point Restraint Systems

• Replace Your Existing Shoulder Harnesses
• Complete New Belt Assemblies - Shoulder and Lap Belts
Cessna STC SA02211CH Approved Models:
170, 170A, 170B, 172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 175, 175A, 175B, 175C, P172D
STC SA02211CH Approved Models: 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P

Cessna STC SA02211CH Approved Models:
185, 185A, 185B, 185C, 185D, 185E, 185F, 185G, 185H
Cessna 177/177A Minor Change Kit.....P/N 05-03135 .....**$39.50**

PIPER STC SHOULDER HARNESS KITS

3 Point Diagonal Systems
• Complete New Belt Assemblies • Shoulder and Lap Belts for 2 Seats - Pilot & Co-Pilot • All Required Hardware • Instruction Manual • Supplemental Type Certificate
STC, PA23-114IR Front Inertial Reel, Kit....P/N 05-03141 .....**$2,126.00**
STC, PA28-1141R Front Inertial Reel, Kit...P/N 05-03143 .....**$2,260.00**
OEM Replacement Front Inertial Reel.....P/N 05-04194 .....**$855.00**
Replacement All Model Rear Lap Belt.....P/N 05-03134 .....**$184.95**
STC, PA23-114FS Front Fixed Strap, Kit ...P/N 05-03140 .....**$1,781.00**
STC, PA24-114FS Front Fixed Strap, Kit....P/N 05-04928 .....**$1,781.00**
STC, PA24-114IR Front Inertial Reel, Kit....P/N 05-04929 .....**$2,126.00**
STC, PA28-114FS Front Fixed Strap, Kit....P/N 05-04930 .....**$1,781.00**
STC SA02015CH Approved Models:
PA28-140, PA28-150, PA28-160, PA28-180, PA28-235, PA28R-180, PA28R-200, PA28S-160, PA28S-180, PA32-260, PA32-300, PA32S-300

AP

L&P AERO WINDSHIELDS

LP AERO PLASTICS INC.

L&P AERO WINDSHIELDS
COMPLETE WINDOW SETS - SKYLIGHTS - LANDING LIGHT LENSES

Replacement glass for over 350 different aircraft models from the oldest to the latest production - both domestic and foreign. Each can be confirmed with serial and model number, year of manufacture, thickness of material and cross-referenced with OEM part number. Manufactured of high optic quality acrylics. Available in clear, green and solar gray tints. To assure quick delivery at minimum cost, orders are shipped directly from our manufacturer's warehouse in Pennsylvaniaa Generally speaking, one-piece windshields require shipment by motor freight, two-piece windshields can be shipped by United Parcel Service. All windshields/windows are special order, they are non-cancelable and non-returnable. Advise complete aircraft model and serial number!

VISIT WWW.AIRCRAFTSPRUCE.CA FOR MORE INFORMATION AND MODELS AVAILABLE.

FLY COOLER, HEALTHIER AND SMARTER
with UV-SG and UV-GT tint windshields and windows from LP Aero Plastics

Say so long to sun damage. Blocking the sun's damaging rays benefits you, your passengers and your aircraft. With far less UV and IR radiation entering the cabin, occupants are less likely to suffer sun-related skin and eye damage - and they'll enjoy cooler cabin temperatures to boot. **UV-SG Solar Gray and UV-GT Green tints can reduce interior temperatures by as much as 20 degrees.** While you and your passengers bask in greater comfort, you'll also reduce the workload on the air conditioning systems. UV and IR radiation can also wreak havoc on avionics and interior components, such as plastic panels and seat materials. That damage is significantly reduced with the UV-SG and UV-GT tints.

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
192 Aeronca Citabria 7ECA, 7GC4A, 7GCBC, 7KCAB	192C	$432.00	192SG	$519.00	05-02225	$514.00
Aeronca Chief 11AC, BC, CC	05-02177	$395.00	05-02229	$477.00	05-02228	$475.00
Bellanca Viking	05-02188	$623.00	05-02231	$743.00	05-02330	$706.00
Beech Bonanza Left 187 thru G-35	250C	$227.95	05-02227	$278.95	05-02226	$272.95
Beech Bonanza Right 187 thru G-35	251C	$227.95	05-02233	$260.95	05-02232	$274.95
Beech Bonanza Left 250 H-35-V-35, Baron 55	280C	$420.00	05-02235	$474.00	05-02234	$499.00
Beech Bonanza Right 250 H-35-V-35, Baron 55	281C	$420.00	05-02237	$499.00	05-02236	$496.00
Cessna 120-140 S/N 8001 to 8799	301C	$434.00	05-02239	$515.00	05-02238	$495.00
Cessna 120-140 S/N 8800 + up	300C	$432.00	300SG	$519.00	05-02240	$532.00
Cessna 140A, 150, 152	303C	$421.00	303SG	$508.00	303G	$512.00
Cessna 170 1948-49 to S/N 18728	310C	$427.00	05-02242	$514.00	---	---
Cessna 170A S/N 18729 to 20676	306C	$448.00	05-02243	$537.00	05-02244	$537.00
Cessna 172 S/N 47747 to 49544	05-02178	$570.00	05-02245	$686.00	05-02246	$686.00
Cessna 170B S/N 20267+up 1952 to 1955	312C	$467.00	05-02247	$557.00	312G	$555.00
Cessna 172 S/N 28000 to 47746	312C	$467.00	05-02247	$557.00	312G	$555.00
Cessna 172 S/N49545 to 50572	313C	$588.00	05-02250	$710.00	05-02249	$711.00
Cessna 172 S/N 50573 to 72884	345C	$590.00	345SG	$708.00	345G	$708.00
Cessna 172 S/N 72885 & up	337C	$551.00	05-02251	$663.00	337G	$662.00
Cessna R172K S/N R2000 to R3199	05-02179	$800.00	05-02252	$957.00	---	---
Cessna 177, 177RG	329C	$663.00	05-02253	$797.00	05-02254	$800.00
Cessna 180 S/N 30000 to 31260	309C	$546.00	05-02255	$653.00	05-02256	$656.00
Cessna 180 S/N 31261 - 50355	315C	$644.00	05-02257	$771.00	05-02258	$771.00
Cessna 180 S/N 50356 - 51183	316C	$644.00	316SG	$769.00	05-02259	$769.00
Cessna 182 S/N 33000 - 51556	315C	$644.00	05-02257	$771.00	05-02258	$771.00
Cessna 182 S/N 52556 - 53598	316C	$644.00	316SG	$769.00	05-02259	$769.00
Cessna 182 S/N 53599 to 55844	338C	$707.00	05-02262	$844.00	05-02261	$842.00
Cessna 182 S/N 55845 to 64296	339C	$754.00	339SG	$900.00	339G	$897.00
Cessna 205	325C	$639.00	05-02263	$766.00	05-02264	$766.00
Cessna 206 S/N U206-0001 thru U206-0437	325C	$639.00	05-02263	$766.00	05-02264	$766.00
Cessna P20 S/N 0001 - 0160	325C	$639.00	05-02263	$766.00	05-02264	$766.00
Cessna U206 S/N 0438+up	326C	$757.00	05-02265	$900.00	326G	$900.00
Cessna P206 S/N 0161+up	326C	$757.00	05-02265	$900.00	326G	$900.00
Cessna 207	05-02180	$755.00	05-02269	$902.00	05-02268	$902.00
Cessna 210 S/N 57841 - 58220	325C	$639.00	05-02263	$766.00	05-02264	$766.00

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
Cessna 210 S/N 58221 - 58510	05-02182	$639.00	05-02266	$766.00	05-02267	$766.00
Cessna 210 S/N 58511 - 58715	325C	$639.00	05-02263	$766.00	05-02264	$766.00
Cessna 210 S/N 58716 - 58818	326C	$757.00	05-02265	$900.00	326G	$900.00
Cessna 210 S/N 58937 + up	05-02183	$703.00	05-02271	$845.00	05-02270	$837.00
Cessna 310 S/N 35000 to 35546	05-02184	$674.00	05-02272	$806.00	05-02273	$768.00
Cessna 310 S/N 35547 to 39299	05-02187	$656.00	05-02275	$787.00	05-02274	$787.00
Cessna 310 S/N 310-0001 to 310 K-0245	05-02187	$656.00	05-02275	$787.00	05-02274	$787.00
Cessna 310 S/N Looo1 to 310Q0400	05-02185	$978.00	05-02277	$1,169.00	05-02276	$1,172.00
Cessna 310 S/N Q0401+up	05-02186	$1,082.00	05-02280	$1,295.00	05-02281	$1,295.00
Ercoupe 415 or G-Bubble	351C	$644.00	05-02283	$608.00	05-02285	$606.00
Grumman AA1, AA1A, AA1B	657C	$543.00	05-02286	$649.00	05-02287	$648.00
Grumman AA1,AAA-1A, AA-1B Canopy	658C	$610.00	05-02288	$729.00	05-02289	$729.00
Grumman AA5, AA-5A, AA5B	05-02189	$895.00	05-02290	$1,071.00	05-02291	$1,069.00
Luscombe 8 Series	400C	$336.00	400SG	$406.00	---	---
Mooney MK20-21, 1959-64 Left	100C	$246.95	05-02292	$257.95	05-02293	$257.95
Mooney MK 20-21, 1959-64 Right	101C	$246.95	05-02294	$257.95	05-02295	$257.95
Mooney 1965-1969 (4 cabin Windows) Left	133C	$234.95	05-02296	$274.95	05-02297	$274.95
Mooney 1965-1969 (4 cabin Windows) Right	134C	$234.95	05-02298	$274.95	05-02299	$274.95
Mooney 1967-1969 (6 cabin Windows 1 pc.)	05-02190	$305.00	05-02301	$361.00	05-02302	$362.00
Mooney M20J and M20K	05-02192	$511.00	05-02303	$606.00	05-02304	$609.00
Piper J-3	450C	$253.95	450SG	$299.95	05-02278	$300.95
Piper PA-12-Round Top	455C	$355.00	05-02305	$423.00	05-02306	$423.00
Piper PA-12 Square Top	456C	$403.00	456SG	$421.00	05-02352	$423.00
Piper PA-15, 16, 17	459C	$424.00	05-02308	$512.00	05-06842	$512.00
Piper PA-22 Tripacer, 108 Colt, Bubble	463C	$424.00	463SG	$512.00	463G	$512.00
Piper PA-23 Apache S/N 1502 + up Right	05-02193	$466.00	05-02310	$559.00	05-02311	$559.00
Piper PA-23-250 S/N 27-2000 +up Left	421C	$479.00	05-02312	$573.00	05-02313	$573.00
Piper PA-23-250 S/N 27-2000 + up Right	422C	$479.00	05-02314	$573.00	05-02315	$573.00
Piper PA-24 Comanche Left	05-02194	$299.95	05-02316	$358.00	05-02317	$358.00
Piper PA-24 Comanche Right	05-02195	$299.95	05-02320	$358.00	05-02321	$358.00
Piper PA-25 Pawnee S/N 1-655	485C	$256.95	05-02318	$281.95	05-02319	$282.95
Piper PA-25 Pawnee S/N 656 + up	486C	$239.95	05-02322	$281.95	05-02323	$282.95
Piper PA-28 Cherokee S/N 1 + up Left (.125)	490C	$242.95	490SG	$288.95	490G	$286.95
Piper 28 Cherokee S/N 1 + up Right (.125)	491C	$242.95	491SG	$288.95	491G	$286.95
Piper PA-28 Cherokee (.250) Left	905C	$280.95	905SG	$336.00	05-02324	$336.00

L&P AERO WINDSHIELDS
(CONTINUED FROM PREVIOUS PAGE)

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
Piper PA-28 Cherokee (.250) Right	907C	**$280.95**	907SG	**$336.00**	05-02325	**$336.00**
Piper PA-32-260 S/N 1-7300076 Left	492C	**$263.95**	05-02326	**$310.00**	05-02327	**$311.00**
Piper PA-32-260 S/N 1-7300076 Right	493C	**$260.95**	05-02328	**$310.00**	05-02329	**$311.00**
Piper PA-38-112 Tomahawk S/N 78A0001 to 82A0122	795C	**$809.00**	05-02330	**$968.00**	05-02331	**$969.00**
Rockwell 112, 114	508C	**$688.00**	05-02332	**$822.00**	05-02333	**$822.00**
Stinson 108 Left	552C	**$261.95**	05-02334	**$316.00**	05-02335	**$316.00**
Stinson 108 Right	553C	**$261.95**	05-02336	**$316.00**	05-02337	**$316.00**
T/Craft BC-12d 1946 +up	650C	**$396.00**	05-02338	**$472.00**	05-02339	**$471.00**
T/Craft BC-1940-41, Pre-war BC-65	651C	**$405.00**	05-02340	**$478.00**	05-02341	---

Aircraft	Clear Part No.	Clear Price	Smoke Part No.	Smoke Price	Green Part No.	Green Price
Piper PA-28 Cherokee A-28, -140, -150, -160, -180, -235	055C	**$92.75**	05-02346	**$140.75**	05-02347	**$140.75**
Cessna 152, A152, F152, FA152	303/302C	**$471.00**	303/302SG	**$566.00**	303/302G	**$565.00**
Cessna 152, A152, F152, FA152	312/CMB	**$699.00**	05-02353	**$800.00**	05-02354	**$800.00**
Cessna 170B S/N 20267 +up 1952 to 1955	312/CON	**$662.00**	05-02359	**$768.00**	05-02360	**$768.00**
Cessna 150, A150, F150, FA150	360C	**$334.00**	05-02348	**$398.00**	05-02349	**$398.00**
PA-18, PA-19 (L-18C)	464C	**$351.00**	462SG	**$508.00**	05-02350	**$416.00**
PA-20, PA-22	462C	**$423.00**	462SG	**$508.00**	462G	**$512.00**
Cessna 172, P172, F172	---	---	05-02351	**$376.00**	389G	**$374.00**

AP

LP AERO HEAVY THICKNESS WINDSHIELDS
STC Conversions

We now carry these STC Conversion extra thick windshields which are FAA approved for the following aircraft and which install as easily as the standard .250 thick windshields. Available in 3 thicknesses.

FAA APPROVAL LIST

Beech Bonanza F33
s/n CD-1235 – CD 1254
Beech Bonanza G33
s/n CD-1255 – CD 1304
Beech Bonanza F33A
s/n CE-290 and up
Beech Bonanza F33C
s/n CJ-26 and up
Beech Bonanza 33 thru E33A
s/n CD-1 – CD-1234,CE-1 - CE-289, CJ-1 – CJ-25
Beech Bonanza H35 thru V35A-TC
s/n D4866 – D9068
Beech Bonanza V35B thru V-35B-TC
s/n D9069 and up
Beech Bonanza 36 & A36
s/n E-1 and up
Beech Bonanza A36TC & B36TC
s/n EA-1 and up
Beech Baron 58 & 58A
s/n TH-1 and up
Beech Baron TC58 & 58TCA
s/n TK-1 and up
Beech Travelair 95 thru E95
s/n TD-1 – TD-721

CESSNA 150/152/172/177/182/210 WINDOWS

Aircraft Spruce stocks replacement windows for Cessna single and twin engine aircraft as well as all windshields and windows manufactured by LP Aero Plastics. Call or email Aircraft Spruce for quotation and specify year, serial number of aircraft and windows required.

Call: 1-877-4SPRUCE · Email: info@aircraftspruce.com

WINDSHIELD INSTALLATION ACCESSORIES

This is an adhesive backed, closed cell foam tape which is available as a 100' roll. This tape can be wrapped around the edges of the windows to both cushion and seal. DO NOT STRETCH DURING APPLICATION, IT WILL PULL BACK AND LEAVE GAPS. Piper used this extensively in their window installations.

1/4"x1/16" x 100' roll.....P/N 05-99100 ..... **$55.75/rl**
1-1/4" x 1/16" x 25" roll.....P/N 05-04864 ..... **$40.75/rl**
1-1/4" X 1/16" .....P/N 05-02132 ..... **$1.04/ft**
Felt – Adhesive-backed 1-1/2" x 1/16".....P/N 05-99110 ..... **$8.99/ft**

FOAM TAPE

An adhesive backed, closed cell foam tape. Can be wrapped around the edges of the windows to both cushion and seal. Do not stretch during application, it will pull back and leave gaps. Piper used this extensively in their window installations. The 1/4" tape IS used mainly for vent window gaskets.

1/4" x 1/8" x 10' Roll ....P/N 05-04754 .....**$18.95**

PPG PR-1425 CLASS B - CANOPY / WINDSHIELD SEALANT

PR-1425 Class B is an aircraft windshield and canopy sealant. It has a service temperature range from -65°F to (-52°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing of properly prepared glass, polycarbonate, acrylic and other aircraft sealing applications. This product is specifically formulated not to craze substrates. The cured sealant exhibits excellent resistance to UV and weather exposure.

PR-1425 Class B is a two-part, dichromate cured polysulfide compound. The uncured material is a low sag, thixotropic paste, suitable for application by extrusion gun or spatula. This sealant has excellent adhesion to common aircraft substrates.....P/N 09-05741 .....**$188.75**

LP AERO INDIVIDUAL WINDOWS

Window Model No.	Aircraft	Description
231	Aeronca	Left front sliding-forward
232	7AC	Left front sliding-rearward
233		Left or Right rear
234		Right front door
225	Aeronca	Left or Right front door (sliding)
226	11AC	Left or Right rear (Door) (sliding)
227		Left or Right rear
342	Cessna	Left or Right door
343	120/140	Left or Right rear
344		Left or Right skylight
370	Cessna	Left or Right rear
374	170	Left or Right door
362	Cessna	Left or Right rear
369	180	Left or Right door
006	J-3	Skylight
008		Left front triangle
009		Left pilot sliding
010		Left rear
011		Right rear
012		Right door
436	PA-12	Left front (sliding)
437		Left rear
438		Door
439		Right rear
015	PA-16,20	Right door
016	22	Right rear
021		Left front stationary
017		Left front sliding
019		Left rear door
465	PA-18	Right door
466		Right or Left rear
467		Rear sliding
468		Front sliding (left)
469		Left pilot
020	Late PA-20	Left or Right square (rear)
021		Left front pilot
023		pilot-vented

SEE OUR WEBSITE FOR COMPLETE LIST OF LP AERO WINDSHIELDS AND WINDOWS.

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

ASHBY AIRCRAFT GLARESHIELDS

Produced from 100% fiberglass that is hand-laminated to form a one-piece structure. They are manufactured out of fire retardant resin that meets Federal Aviation Regulations (FAR) parts 23 and 25. Prevent sun from reflecting in your instruments, allowing you to read them clearly. It will also protect sensitive instruments from heat and is impervious to damage from the sun's rays. Molded with a rich leather texture, which is pleasing to the eye, and has a semi-gloss black finish. On most models it fits flush with the windshield, and extending 3" past the front of the panel. A reinforced lip for mounting optional lights to illuminate the instrument panel, which also serves as hand-holds when entering and exiting the cockpit, or when adjusting your seats. There is also space for switches and annunciator lights. This part can be manufactured under contract with the owner operator under FAR 21.303b2. It is the owner operator's responsibility to determine airworthiness and applicability.

CESSNA

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No/	Price	Part No/	Price	Part No/	Price
120, 140, 150 (thru F, 1959-1966),	05-03871	**$573.00**	05-03908	**$675.00**	05-03945	**$675.00**
152 (1978-1986)	05-03872	**$573.00**	05-03909	**$675.00**	05-03946	**$675.00**
170, 170A (1948-1951), 172 (1956-1958)	05-03873	**$573.00**	05-03910	**$750.00**	05-03947	**$750.00**
170B, 1952-1956	05-03874	**$573.00**	05-03911	**$750.00**	05-03948	**$750.00**
172A thru D(1960-1963), 175 (all)	05-03876	**$551.00**	05-03913	**$728.00**	05-03950	**$728.00**
172 1959 only	05-03875	**$573.00**	05-03912	**$750.00**	05-03949	**$750.00**
172E thru N, 172P, 172Q, 172XP, 172RG 1974-1986 (all)	05-03877 Stc'd	**$551.00**	05-03914	**$728.00**	05-03951	**$728.00**
180A thru H, 182 thru D, 185 thru E, F Models Prior to 1974	05-03878 Stc'd	**$573.00**	05-03915	**$750.00**	05-03952	**$750.00**
180J, 185 (1974-1986)	05-03879	**$573.00**	05-03916	**$750.00**	05-03953	**$750.00**
182 (1962-1963)	05-03880	**$551.00**	05-03917	**$728.00**	05-03954	**$728.00**
182 1964-1965 (Early Slight Radius on Top.)	05-03881	**$551.00**	05-03920	**$750.00**	05-03957	**$750.00**
182 (1969-1974)	05-03884	**$573.00**	05-03921	**$750.00**	05-03958	**$750.00**
182 (1975 only)	05-03885	**$573.00**	05-03922	**$750.00**	05-03959	**$750.00**
182 1976-1986, 182R	05-03886	**$551.00**	05-03923	**$728.00**	05-03960	**$728.00**
205 (1963-1965 early)	05-03887	**$573.00**	05-03924	**$750.00**	05-03961	**$750.00**
206 1965 (Late) -1967 Not avail. for 1968-1969, 210 1965 (Late) -1967 Not avail. for 1968-1969.	05-03888	**$573.00**	05-03925	**$750.00**	05-03962	**$750.00**
206 (1970-1986), 210 (1970-1986)	05-03889	**$573.00**	05-03926	**$750.00**	05-03963	**$750.00**
210 (1960-1961)	05-03890	**$573.00**	05-03927	**$750.00**	05-03964	**$750.00**
210 (1962 only)	05-03891	**$573.00**	05-03928	**$750.00**	05-03965	**$750.00**
XP210	05-04096	**$573.00**	05-04097	**$743.00**	05-04098	**$743.00**
336 (all), 337 (all)	05-03892	**$503.00**	05-03929	**$681.00**	05-03966	**$681.00**

PIPER

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No/	Price	Part No/	Price	Part No/	Price
PA-23 (1956-1963)	05-03893	**$573.00**	05-03930	**$750.00**	05-03967	**$750.00**
PA-24, PA24-250, 260, 400, PA-30 (all)	05-03894 Stc'd	**$573.00**	05-03931	**$750.00**	05-03969	**$750.00**
PA-28-140, 150, 151, 160, 161, 181, 201T, 235, 236, PA-28S-160, 180, PA-28R-180, 200, 201, 201T, PA-28RT-201, 201T, PA-44-180, 180T	05-03895 Stc'd	**$573.00**	05-03932	**$750.00**	05-03970	**$750.00**

PIPER PA28/32/34 GLARESHIELDS

These beautiful new Glareshields are designed for the Piper models PA28, PA32 and PA34. The new Glareshield is made of FAA approved temperature stable Lexan covered with sound proofing foam and a new non-glare vinyl that looks like leather. With a 3 inch eyebrow over the instrument panel, it not only adds beauty to your plane but also improves forward visibility. The new Glareshield is easy to install and comes with all hardware and detailed instructions. The standard PA-28 glare shield has 20 inches from center to center between the defroster holes and has the SCAT defroster hose application. This is most PA-28 aircraft made before 1974. Post 1978 aircraft have 22 2/4" separation between holes, and a fiberglass distribution system. Please confirm applicability and dimensional information prior to order.

Piper PA28 Pre 1974 .....P/N 05-02221 .....**$523.00**
Piper PA28 Post 1974.....P/N 05-12762 .....**$523.00**
Piper PA32 & 34.....P/N 05-02222 .....**$551.00**

PIPER CONT.

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No/	Price	Part No/	Price	Part No/	Price
PA-28(1964-1967), PA-28-150, 160, 180, 235 (Large Hump over Radio Stack)	05-03896 Stc'd	**$573.00**	05-03933	**$750.00**	05-03971	**$750.00**
PA-32-260, 300, 301, 301T, 301FT, 301XTC, PA-32S-300, PA-32R-300, 301T, 301(SP), 301(HP), PA-32RT-300, 300T PA-34-200, 200T, 220T	05-03897 Stc'd	**$573.00**	05-03934	**$750.00**	05-03972	**$750.00**
PA-38 (all)	05-03898	**$551.00**	05-03935	**$728.00**	05-03973	**$728.00**

BEECHCRAFT

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No/	Price	Part No/	Price	Part No/	Price
BE-23	05-04093	**$573.00**	05-04094	**$743.00**	05-04095	**$743.00**
BE-33 1947-1961, BE-35 1947-1961	05-03899	**$551.00**	05-03936	**$728.00**	05-03974	**$728.00**
BE-33 1962-1971, BE-35 1962-1971, BE-55 1962-1971, BE-95 1962-1971	05-03901	**$573.00**	---	---	---	---
BE-33 1962-1971, BE-35 1962-1971, BE-55 1962-1971, BE-95 1962-1971	05-03903 With Plenum	**$684.00**	05-03940	**$860.00**	05-03977	**$860.00**
BE-33 1972-1983, BE-35 1972-1983, BE-36 1971-1983, BE-58 1971- 1983	05-03905 With Plenum	**$684.00**	05-03942	**$860.00**	05-03979	**$860.00**
BE-33 1962-1983, BE-35 1962-1983	05-03904	**$510.00**	---	---	---	---

MOONEY

For Model	Glareshield		w/ 12V Lights		w/24V Lights	
	Part No/	Price	Part No/	Price	Part No/	Price
201 (1977-1983)	05-03907	**$573.00**	05-03944	**$750.00**	05-03981	**$750.00**

LIGHTS

PMA Approved Panel Rope Lights, 12 or 24 Volts DC, 18" or 34" Long. Illuminates instruments with 8 or 12 2000+ hour bulbs, respectively.

Lights	Part No.	Price
12 Volts, 8 Bulbs, 18"	05-03998	**$103.75**
24 Volts, 8 Bulbs, 18"	05-03999	**$103.75**
12 Volts, 12 Bulbs, 34"	05-03994	**$179.75**
24 Volts, 12 Bulbs, 34"	05-03995	**$179.75**

GLARE SHIELD KIT

Superior Panel Technology's Glare Shield Kit provides the materials to produce a professional looking custom padded glare shield. The kit can work with any aircraft that has a smoothly curved glare shield (without raised sections or bumps). The pictures show the Glare Shield kit installed on a Cessna 175 and a Marchetti. The kit contains 1.5 linear yards of 54" wide of leather-like vinyl, 1.5 linear yards of 48" wide 1/8" foam cushioning, 1/6" x 8" x 50" ABS flexible base plastic, aluminum stiffener, bull-nose for the front edge (allows for a nice rounded front lip), flexible foam and cardboard material used for making a template plus complete installation instructions. The material passes the FAR 25.853 burn requirements and a burn certificate is provided with the kit. Superior Panel Technology's electroluminescent Glow Strips glare shield lighting (ACS#11-10618 and 11-10619) work beautifully with this Glare Shield. .....P/N 11-06324 .....**$385.00**

WINDSHIELDS – VORTEX GENERATOR KITS

CEE BAILEY AIRCRAFT WINDSHIELDS

Cee Bailey's Aircraft Plastics has been producing superior replacement windows and windshields for light aircraft since 1955. These windshields are custom built to fit your aircraft's serial number. This handcrafting insures a perfect, distortion-free windshield, trimmed and ground to fit your aircraft with little or no modification. Optical qualities, contour, shape and fit are exceptional. All windshields and windows are FAA/PMA approved. Cee Most windows and windshields are available in clear, green, and solar grey. Prices are for clear. Add 15% to prices for green or grey tints. When ordering, specify model number, year, and serial number of the aircraft.

See www.aircraftspruce.ca for unlisted windshields and windows for Beechcraft Bonanza, Debonair, Baron, Musketeer, Travelair, Bellanca, Cruisair, Aeronca Champion, Aeronca Sedan, and Aerocommander.

Make/Model	Price
Aero Commander 2pc w/s Left	**$183.00**
500, 520, 560, 680 Right	**$183.00**
Aero Commander 100 Darter-Lark Volaire 10 or Volaire 10A	**$373.00**
Aeronca Citabria	**$260.00**
Aeronca Chief	**$299.00**
Beechcraft Musketeer, Sundowner, Sierra, Sport (.125)	**$338.00**
Musketeer, Sundowner, Sierra, Sport (.187)	**$391.00**
Bonanza 33/35, 2pc w/s (per side)	**$178.00**
Bonanza 33/35/36/55/58/95 1pc w/s (must check s/n carefully)	**$500.00**
Bellanca Cruisemaster models 14-19, 14-19-2, 14-19-3	**$367.00**
Viking, Super Viking 14-19-3A,17-30 17-30A, 17-31A, 17-31ATC	**$296.00**
Cessna 120-140 (S/N 8800 & up)	**$251.00**
140A, 150, 152	**$251.00**
152	**$281.00**

Make/Model	Price
172 (S/N50573 to 72884)	**$365.00**
180,182 (S/N52556 to 53598)	**$393.00**
182 (S/N 53599 to 55844)	**$400.00**
182 (S/N 55845 to 64296)	**$450.00**
205, 206, U206, P206	**$400.00**
207	**$460.00**
210 (S/N 58716 to 58818)	**$454.00**
Ercoupe - Fornair (bubble type w/s)	**$245.00**
Grumman - AA1, AA1A, AA1B	**$302.00**
GrummanCanopy-AA1,AA1A,AA1B	**$328.00**
Luscombe 8 series	**$230.00**
Mooney M20, M20a/b/c/d/e prior to 1965 (2pc w/s)	**$176.00/side**
Mark21,M20c,Super21,M20e,Master M20d, Executive21 M20f, after 1965	**$118.00/side**
Ranger M20c, Chaparral M20e, Executive M20f, Statesman M20g	**$230.00**
Navion A/B/D/E/F Std. or flush type (2pc w/s)	**$137.00/side**

Make/Model	Price
Navion Rangemaster G&H 2pc w/s	**$137.00**
Piper J-3 Cub	**$158.00**
PA-12 square top (late model)	**$261.00**
PA-12 square top (early model)	**$282.00**
PA-15/16/17/22 108 colt bubble	**$285.00***
Apache 23 (S/N 1502 & up) RorL	**$250/side**
Pawnee 25 (S/N 656 & up)	**$130.00**
Cherokee PA-28 (.125) RorL	**$142./side**
Cherokee PA-28 (.250) RorL	**$172./side**
Stinson HW-75 2pc	**$176./side**
Stinson Voyager108, 108-1/2/3 2pc w/s	**$171./side**
Taylorcraft BC-12D, 1946 & up	**$229.00**
Taylorcraft B 1940–41	**$229.00**
Yak 52 Windshield (4 sections) *all windows available canopy, side windows, center fixed, aft siding, rear fixed	**$395.00**
Yak CJ69 (*all windows available canopy, fwd sliding, center fixed, aft siding, rear fixed)	**$360.00**

MICRO VORTEX GENERATOR KITS

Micro Vortex Generators from Micro Aerodynamics, Inc. are available for a wide range of aircraft and can reduce stall speed, improve aileron response, improve cross wind control, and reduce landing and takeoff roll. The kits consist of vortex generators mounted on the wings, the horizontal stabilizer, and the vertical stabilizer. The generators are manufactured under FAA/PMA from 6063T6 aluminum and are curved to fit the contour of the wing. Included in the kits are installation tools, detailed drawings and instructions, templates for positioning VG's, spares, Loctite Depend adhesive and all the materials needed for the easy one-day installation. When ordering, specify aircraft, serial number, N number, paint name and number (additional **$345.00** to match), make and model, and any modifications to aircraft. Generic VG kit used on LongEZ, RV-4/6/8, Rans, Murphy Rebel and others. Specify Aircraft make and model.

Make/Model	Part No.	Price
CESSNA TWINS 310G thru 310Q	05-00602	**$2,691.00**
310R & T310R (ZFW & GWI - 180 lbs)	05-00604	**$3,381.00**
320B/C/D/E/F	05-00605	**$2,691.00**
336 & 337	05-04404	**$2,691.00**
340A, 340, 335 (GWI 300 lbs)	05-00606	**$4,071.00**
401, 401A, 401B	05-00607	**$2,691.00**
402, 402A, 402B	05-00608	**$2,691.00**
402C (ZFW & GWI - 360 lbs)	05-00609	**$4,071.00**
411, 411A	05-00610	**$3,381.00**
414	05-00611	**$2,691.00**
414A, 414AW (ZFW & GWI - 350 lbs)	05-00613	**$4,071.00**
421, 421A	05-00614	**$2,691.00**
421B & 421C (GWI - 129 lbs)	05-00615	**$4,071.00**
CESSNA SINGLES		
120, 140 Series	05-04393	**$960.00**
150, 152 (all models)	05-04394	**$960.00**
170 "Rag Wing"	05-04189	**$1,311.00**
170A, 170B	05-00616	**$2,001.00**
172, 175 Series	05-00618	**$2,001.00**
177, 177A, 177B, 177RG, F177RG	05-04397	**$2,001.00**
180, 185 Series	05-00617	**$2,001.00**
182 Series	05-04469	**$2,001.00**
205, 206, 207 Series	05-00619	**$2,001.00**
210 (all models)	05-04470	**$2,001.00**
Cessna P210N	05-04265	**$2,001.00**
Cessna P210R	05-04266	**$2,001.00**
Cessna (T)210 SER	05-04264	**$2,001.00**
Cessna 310I/310J	05-04258	**$2,691.00**
Cessna 402B	05-04259	**$2,691.00**
Cessna 421C	05-04261	**$4,071.00**
Baron 55 A/B/C/D/E	05-00621	**$3,381.00**
Baron 58, 58A	05-00623	**$4,071.00**
Hawker Beechcraft G58 Baron	05-04471	**$4,071.00**
Baron 58TC, 58P	05-00624	**$3,381.00**
Baron 55 Upgrade kit (w/older VG system)	05-00625	**$1,311.00**
Duke 60, A60, B60	05-00626	**$3,381.00**
Twin Bonanza	05-00627	**$2,691.00**
Travel Air	05-00628	**$2,691.00**
BEECH SINGLES		
Musketeer, Sierra, Sundowner	05-04391	**$2,001.00**
Bonanza 35 Series	05-00629	**$2,001.00**
Bonanza 33, 36, A36, A36TC, B36TC	05-00630	**$2,001.00**
Beechcraft Debonair 33	05-04392	**$2,001.00**
Hawker Beechcraft G36 Bonanza	05-04192	**$2,001.00**

Make/Model	Part No.	Price
PIPER TWINS		
Aztec PA-23-250	05-00633	**$2,691.00**
Geronimo PA-23-180	05-00634	**$2,691.00**
Twin Comanche PA-30, PA-39	05-00635	**$2,691.00**
Seneca II (ZFWI - 168 lbs)	05-04472	**$2,691.00**
Seneca I, III, IV, V	05-04398	**$2,691.00**
Seminole PA-44-180, PA-44-180T	05-00636	**$2,691.00**
PIPER SINGLE		
J-3, J-4, J-5, PA-11 (includes the horizontal stabilizer)	05-00640	**$960.00**
J-3 Upgrade Kit - Tail VGs on underside of stabilizer provide full-span elevator authority and improve controllability.	10-04227	**$207.95**
PA-12/PA-18	05-00639	**$960.00**
PA-15, PA-16, PA-17	05-04399	**$960.00**
PA-22, PA-20	05-00641	**$960.00**
PA-24 Comanche	05-04401	**$2,001.00**
PA-28 All Models	05-00642	**$2,001.00**
PA-32 Cherokee Six, Lance (except T-Tail)	05-00939	**$2,289.00**
PA-32 Saratoga	05-00938	**$2,001.00**
MOONEY		
M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S	05-04402	**$2,001.00**
ROCKWELL COMMANDER		
112, 112TC, 112TCA, 114, 114A, 114B, 114TC, 115TC	05-00646	**$2,001.00**
LAKE		
LA-4, LA-4A, LA-4P LA-4-200, Model 250	05-00647	**$2,691.00**
AMERICAN CHAMPION		
Aeronca Champ, Scout Citabria: 7AC, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KC, 7KCAB, 8KCAB, 8GCBC	05-00644	**$960.00**
Aeronca Chief: 11AC, S11AC, 11BC, S11BC, 11CC, S11CC	05-04473	**$960.00**
Aeronca Sedan: 15AC, S15AC	05-04190	**$1,311.00**
AVIAT Husky A-1, A-1A, A-1B	05-00643	**$960.00**
MAULE M-4, M-5, M-6, M-7 MT-7, MX-7, MXT-7, M-8	05-00645	**$960.00**
STINSON 108, 108-1, 108-2, 108-3, 108-5	05-04403	**$960.00**
TAYLORCRAFT Taylorcraft Series	05-01208	**$960.00**
AGRICULTURAL Air Tractor, Ayres Thrush, Brave, Cessna 188, Dromader, Weatherly	05-00648	**$2,415.00**
KIT PLANES RV, Murphy Rebel, Long EZ	05-00001	**$682.00**

AIRCRAFT SPEED BRAKES

SPEEDBRAKES FOR EXPERIMENTAL AIRCRAFT

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility. Kit will arrive complete with cockpit switch, all installation hardware and documentation. Average installation time is 35-45 hours with an installed weight of 9 pounds.

12V .....P/N 05-07198 .....**$8,452.00**
24V .....P/N 05-07199 .....**$8,452.00**

SPEEDBRAKES FOR LANCAIR LEGACY AIRCRAFT

Deployable at any speed below Vne (175 Knot limit if you have tip tanks. Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility. Kit will arrive complete with cockpit switch, all installation hardware and documentation. Average installation time is 35-45 hours with an installed weight of 9 pounds.

12V .....P/N 05-07201 .....**$8,441.00**
24V .....P/N 05-07202 .....**$8,962.00**

SPEEDBRAKES FOR PIPER PA 28 AND PA 32 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Piper PA28/32 Series Aircraft, STC SA00762SE. Available for both 12 or 24 volt aircraft

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 25-35 hours with an installed weight of 9 pounds.

STC'd For: PA28R-201, PA28-201T, PA28RT-201, PA28R-201T, PA32-260, PA32-300, PA32S-300, PA32R-300, PA32RT-300, PA32R-301, PA32R-301T, PA32-301, PA32-301T

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07203 .....**$8,238.00**
24V .....P/N 05-07204 .....**$8,236.00**

SPEEDBRAKES FOR PIPER PA 3 AND PA 39 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Piper PA30, PA39 Series Aircraft, STC SA0107SE. Available for both 12 or 24 volt aircraft

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 25-35 hours with an installed weight of 9 pounds.

STC'd For: PA-30, PA39

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07206 .....**$8,236.00**
24V .....P/N 05-07207 .....**$8,236.00**

SPEEDBRAKES FOR PIPER PA 46 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Piper PA46 Malibu/Mirage Series Aircraft (STC SA00520SE).

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 25-35 hours with an installed weight of 9 pounds.

STC'd For: PA46-310P & PA46-350P

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07208 .....**$8,238.00**
24V .....P/N 05-07209 .....**$9,892.00**

SPEEDBRAKES FOR MOONEY M20 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Mooney M20 Series, STC SA4342NM. Available for both 12 or 24 volt aircraft.

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 25-35 hours with an installed weight of 9 pounds.

STC'd For: M20 Series Mooney

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07211 .....**$8,217.00**
24V .....P/N 05-07212 .....**$8,744.00**

SPEEDBRAKES FOR BEECH 33 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Beechcraft Bonanza Model 33 Series, STC SA0107SE. Available for both 12 or 24 volt aircraft.

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 35-45 hours with an installed weight of 9 pounds.

STC'd For: 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, F33, F33A, F33C & G33

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07213 .....**$8,238.00**
24V .....P/N 05-07214 .....**$8,236.00**

SPEEDBRAKES FOR BEECH 36 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Beechcraft Bonanza Model 36 Series, STC SA0107SE. Available for both 12 or 24 volt aircraft.

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 25-35 hours with an installed weight of 9 pounds.

STC'd For: 36, A36 & A36TC

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07216 .....**$8,236.00**
24V .....P/N 05-07217 .....**$8,242.00**

SPEEDBRAKES FOR BEECH 35 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Beechcraft Bonanza Model 35 Series, STC SA0107SE. Available for both 12 or 24 volt aircraft.

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 35-45 hours with an installed weight of 9 pounds.

STC'd For: A35, B35, C35, D35, E35, F35, G35, 35R, H35, J35, K35, M35, N35, P35, S35, V35, V35A & V35B

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft dra. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07218 .....**$8,236.00**
24V .....P/N 05-07219 .....**$8,236.00**

SPEEDBRAKES FOR CESSNA 210 AIRCRAFT

2000 Series Aftermarket SpeedBrake Kit For Cessna 210 Series, STC SA2602NM. Available for both 12 or 24 Volt aircraft.

Kit will arrive complete with STC, cockpit switch, all installation hardware and documentation. Average installation time is 25-35 hours with an installed weight of 9 pounds.

STC'd For: 210G, T210G, 210H, 210J, T210K, T210J, 210L, T210L, 210M, T210M, 210N, P210N, T210N, P210R, T210R, T210H

Deployable at any speed below Vne (175 Knot limit if you have tip tanks). Doubles aircraft drag. Doubles normal rate of descent. Helps prevent engine shock cooling. Improves aircraft value and utility.

12V .....P/N 05-07221 .....**$8,238.00**
24V .....P/N 05-07222 .....**$8,236.00**

AP

WEMAC AIRCRAFT LIGHT & EYEBALL AIR VENT REMOVAL TOOL

The WEMAC Aircraft Overhead Cabin Light & Air Vent Removal Tool quickly and safely removes WEMAC cabin light and air vent housings for servicing. **Features:** • Does not damage the housing when removing. • Manufactured with high friction elastomer tip for maximum grip. • Made of high quality durable material and will not break or crack • Saves time and money on airplane technician labor costs. **Specifications:** • 3 5/8" High x 2 1/8" Diameter ..... P/N 06-01565 ..... **$48.50**

EYEBALL AIR VENT ADAPTER

The extension on the back of these aluminum eyeball air vents is very narrow and allows little room to attach SCAT ducting. This adapter enables the user to attach 2" diameter SCAT ducting to the back of the vent using a stainless steel clamp ..... P/N 05-04067 ..... **$39.90**

EYEBALL SWIVEL VENT

Front **Back**
P/N 05-00779

This high quality, economical swivel air vent is made from 2024T351 aluminum and is available anodized black or grey. Diameter of the flange is 2.75" and the vent is designed to attach with a standard 2" air duct flange. The vent hole of this eyeball swivel vent is 7/8". The knurled collar on the vent swivels 60° to adjust air volume and direct air flow as desired. The vent features 4 mounting holes (1/8" dia.) which are spaced 2-3/8" apart or a mounting plate with a thickness of .71". Made in USA

Eyeball Swivel Vent - Black ..... P/N 05-00779 ..... **$137.75**
Eyeball Swivel Vent - Grey ..... P/N 05-00787 ..... **$137.75**
2" Flange Adapter ..... P/N 10350-8 ..... **$20.60**

PLASTIC EYEBALL AIR VENTS

Front **Back**

These ball and socket air vents are injection molded T grade ABS. The vent orifice is 1" dia., and the ball swivels 45°. The mounting flange is 2-1/8" square, and the distance between mounting hold centers is 1-11/16". Mounts in 1.75" dia. hole & uses 1-3/4" ducting. Wt: 1.25 oz. ea.

Gray ..... P/N 05-04082 ..... **$27.50**
White ..... P/N 13-01943 ..... **$24.80**
Black ..... P/N 05-04079 ..... **$27.50**
Beige ..... P/N 05-04081 ..... **$27.50**

CESSNA 210 FRESH AIR VENT SYSTEM

Replaces the forward cabin vent. Features durable Wemac air vents, full/partial closure, directional control, and positive shut-off. All metal construction. Completely replaces the old style, plastic overhead fresh air vents in most Cessna 210 aircraft. Full system includes the forward center, and aft systems. STC approved.

Full system ..... P/N 05-04092 ..... **$2,123.00**
Pilot & Co-Pilot ..... P/N 05-04083 ..... **$1,332.00**
Center Vents (total of 2 units) ..... P/N 05-04085 ..... **$468.00**
Rear Vents (total of 2 units) ..... P/N 05-04087 ..... **$724.00**

ACTIVENT ACV-100 COCKPIT VENTILATOR

Solar Powered Cockpit ventilator installs in place of the normal can type vent while the aircraft is parked. An 8ft cord allows use with the panel on the glare shield or outside the aircraft when an outsidecover is used. The system provides a minimum of 7CFM airflow through the cabin per vent. The fan is a ball bearing design with a 10,000 hr design life. Made from aircraft grade aluminum.The Solar Panel is injection molded acrylic with an integral lens system.

Standard ..... P/N 05-04072 ..... **$179.75**
For Cessnas with ventubes ..... P/N 05-04074 ..... **$172.75**

CABIN WINDOW VENTILATOR

Plexiglass cabin ventilator. Mounts firmly at four points. Closes tight for winter flying. Uses 2-1/2" dia. hole.

P/N 05-08078 ..... **$36.60**

PIPER FAA / PMA ORIGINAL STYLE AIR VENT

PA-22 Style Air Vent. Can be installed in side window, door skin or side skin. 2-3/4" square with 1-1/2" square opening ..... P/N 05-08093 ..... **$126.75**

VENTUBE FOR CESSNAS

The Ventube is a plastic unit that consists of an exterior tube and a lockable interior tube with a cap. Air flow control is accomplished by extending or retracting the interior tube. Ventube enhances pilot and passenger comfort, allows reliable closure of the air vent, controls vent direction and flow, and reduces air vent noise and leakage. FAA approved for Cessna 120, 140, 150, 152, 170, 172, 175, 180, 182, 185, 190, 195, 205, 206, 207, 210-210F, and 305. Detailed instructions, STC, FAA Form 337, etc. are enclosed with each pair.

P/N 05-04091 ... **$159.90/pr.**

AIRFLOW ENHANCEMENT KIT

Improves the cabin airflow in General Aviation aircraft, specifically Cessnas. Combined with Ventubes they enhance the pilot and passengers comfort (cooling & heating), allow reliable closure of the inlet air vents, control cabin air direction, increase cabin air flow, and reduce inlet air noise and leakage. The kit consists of two cabin exit vents, CEV, to allow the cabin air to exit into the aft fuselage and the fuselage exit vent, FEV in the modified inspection plate, to allow the cabin air to exit the fuselage of the aircraft.

P/N 05-04080 ..... **$114.75**

THE COMPLETE AIRFLOW KIT

Ventubes™ (pair) - controls air flow into the cabin. Cabin Exit Vents - allows air to exit to fuselage. Fuselage Exit Vent - allows air to exit the aircraft.

P/N 13-03577 ..... **$273.95**

VISTA-VENTS

Knob adjustment permits complete control of cabin air. Mounts at four points in 2-1/2" dia. hole. Cessna Supplemental Approval available online.

P/N 13-03500 ..... **$34.50**

CABIN AIR VENTILATOR

Aluminum 90° elbow type. Knurled collar rotates to control air volume. Mounts to a 2 1/2 in. Dia flange. For 1-1/4 Id scat ducting. Also good for cabin heat vents.

P/N 05-04075 ..... **$177.75**

SNAPVENT™ AIR VENTS

Adjustable plastic ventilators for use as fresh air intakes or air exhausts. Easily installed in plastic windshield or metal cowling. Two sizes:

MODEL A-2-100 Mounts in a 2" dia. opening. Can be turned to provide any degree of ventilation. The "Off" position is with the opening downward. ..... P/N 05-01178 ..... **$26.50/pr.**

MODEL CC3251 Mounts in 31/4" dia. opening. Rotates to provide any degree of ventilation. Retracts to a closed position nearly flush with the mounting surface. ..... P/N 05-01179 ..... **$32.65/pr.**

MODEL F325A Large tabs on lower flange and tapered profile make this vent ideal for higher airspeeds. Mounts in 3-1/4" opening in plastic windshield or metal cowling ..... P/N 05-04088 ..... **$26.95/pr.**

MODEL F318 Tapered in profile in back provides a more direct flow of air. Mounted in 3-3/16" opening in plastic windshields or metal cowling.

P/N 05-04089 ..... **$29.70pr.**

MODEL CC3251F - This Snapvent is a custom hand manufactured part. It has two tabs welded opposite each other on the outer ring to better facilitate holding itself in the window and in addition, it also has a custom made thicker wire inserted internally to give great support laterally. **This is a non-standard part custom made specifically for faster aircraft. It is Not Required for normal applications. For normal application, please install the standard (CC3251) 05-01179 Snapvents, which are sold in pairs** ..... P/N 05-01253 ..... **$46.50**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

LARGE ROUND FLANGE EYEBALL VENT

This The round flange version of our large square-flange eyeball vent. Fits in a 2-3/4" hole, and has a 3" outside flange diameter.

w/ 2" Scat Adptr., Black.....P/N 05-04064 .....**$241.95**
w/ 2" Scat Adptr., Clear.....P/N 05-04066 .....**$241.95**
w/ Plenum Nut, Clear .....P/N 05-04414 .....**$239.95**
w/ Plenum Nut, Black.....P/N 05-04415 .....**$230.95**

STEINAIR AV125B EYEBALL VENT

These high quality vents have a nylon/delrin bushing encapsulated between the eyeball and the flange to protect the aluminum! With these vents you simply cut a hole, install the vent and tighten the plenum or retaining nut behind it and hook up the tubing! The vents include everything needed for install. On the small vents you can just directly attach a 2" scat tube to the vent - and on the large vents they have 2" plenums. These will come with a "BAC" part number on them, but that's because they are normally for the cockpits of fighters.

Description	Part No.	Price
1 1/4" Aluminum Eyeball Vent - (Air outlet size). Anodized BLACK. OD is 2" and allows for direct connection of a 2" scat tube. AV125B	05-04061	**$196.99**
1 1/4" Aluminum Eyeball Vent - (Air outlet size). Anodized CLEAR. OD is 2" and allows for direct connection of a 2" scat tube. AV125C	05-04063	**$196.99**
1 3/4" Aluminum Eyeball Vent - (Air outlet size). Anodized BLACK. OD is 2 3/4" (hole size required for mounting). INCLUDES 2" Plenum Cup. AV1625B	05-04084	**$205.95**
1 3/4" Aluminum Eyeball Vent - (Air outlet size). Anodized CLEAR. OD is 2 3/4" (hole size required for mounting). INCLUDES 2" Plenum Cup. AV1625C	05-04086	**$205.95**

NACA INLETS

These are in two half pieces. Assembly is required.

Part No.	Model No.	0° Axes or air flow	90° Axes Total w/ Length	Duct Outlet Size Openings	Duct Flange Angle	Price
05-00859	904 MI	11.75"	8.25"	4"	90°	**$124.75**
05-00862	001 HE	7.75"	4"	2.5"	Straight	**$78.75**
05-00865	007 JO	5.75"	2.75"	2"	Straight	**$60.75**
05-04250	009 MU-B	3"	2.75"	N/A	--	**$24.50**
05-04249	009 MU-A	6.5"	3.5"	N/A	--	**$28.80**

LARGE NACA SCOOP

This large NACA scoop is the largest inlet available anywhere. 0° axes of air flow 17", 90° axes total width, 10 inches with a 9" x 2" outlet or 18 square inches. A separate two-part duct can be purchased separately. This allows the user to take the air directly into a 2" or 4" hose connection. High impact polycarbonate, formed at 375° F.

Cameron NACA inlet 006-TR-A (Scoop Only).... P/N 05-01701 ..**$129.75**

KOOL SCOOP VENTS

Very popular with Piper owners who need quick, high volume ventilation during ground operations on hot days. Kool Scoop is very easy to mount; simply peel off the adhesive backing sealer and stick it in place on the side window. It will fit any side window vent that does not have a thick frame. Made of top quality plexiglass. Really "scoops" the air from the outside to keep the pilot and passengers comfortable. Window frame not included.

Left hand (Pilot Side).....P/N 05-04076 .....**$48.50**
Right hand (Co-Pilot Side) .....P/N 05-04078 .....**$47.90**

LONESTAR VENTILATION BLOWER KIT

The Frosty dc motor is the same as our FAA PMA 6 port blower and has been STC approved as well. The blower's footprint is an ultra small size measuring (3.50L"x 3.50W"x 4.50H) for the blower, universal mounting bracket and speed control module. This ventilation kit is compatible with Experimental, Sport, GA, Rotor-craft, Business, Commercial aircraft, as well as Land-Mobile, Marine and Military Vehicles.

Designed for 12 and 24 volt systems the blower kit can be easily upgrade any aircraft with space for the blower, panel eyeball vents and a speed control POT. The Frosty ventilation blower includes the blower, (12/24vdc) universal mounting bracket and install Kit (LS03-02060) only.

Description	Part No.	Price
Lonestar Ventilation Blower Kit 12 Volt	11-08627	**$642.00**
Lonestar Ventilation Blower Kit 24 Volt	11-08640	**$648.00**

AVEOAIR™ - BALL VENTS

AveoAir™ Ball Vents are machined from 2024 aluminium alloy, and these lightweight vents are anodized in your choice of 2 color finishes: Silver or Black.

Installation is simple with 2-piece design, no screws are required as they simple thread together to hold securely.

ONLY AVEO VENTS come with a choice of 3 rear standard SCAT tube coupler diameters so you can optimize your air flow. Choose from 1.5", 1.75" or 2.0" diameters (38 mm, 44 mm, 50 mm).

1.5 Inch			1.75 Inch			2.0 Inch		
Black	05-04198	**$172.75**	Black	05-04459	**$172.75**	Black	05-04464	**$172.75**
Silver	05-04199	**$172.75**	Silver	05-04460	**$172.75**	Silver	05-04465	**$172.75**

AVEOAIR™ - MAXI VENTS

AveoAir™ vents line is the Maxi version. At 44% larger outlet diameter now you can get greater air flow in low speed aircraft and low-flow situations. Available with 1.5" or 2.0" diameter rear SCAT adapters and made to the same fine standards as the standard AveoAir™ vents.

Features: • CNC machined from 2024 aluminum • Anodized in matte silver or matte black • Single-hand operation • Easy install • Fits all SCAT tubing • Adjustable air flow.

Matte Black 1.5" .....P/N 05-04649 .....**$216.95**
Matte Black 1.75".....P/N 05-04935 .....**$216.95**
Matte Black 2" .....P/N 05-04650 .....**$219.95**
Matte Silver 1.5" .....P/N 05-04651 .....**$217.95**
Matte Silver 1.75" .....P/N 05-04936 .....**$216.95**
Matte Silver 2" .....P/N 05-04652 .....**$216.95**

AVEOAIR FOR PIPER AIRCRAFT

AveoAir Vents for Piper - the identical top quality air vent from Aveo but with a square mounting plate that is a drop-in replacement for standard plastic Piper aircraft vents.

Features: • CNC machined from 2024 aluminum • Single-hand operation • Easy install • Adjustable air flow

Silver.....P/N 05-05170 .....**$172.75**
Black.....P/N 05-05171 .....**$172.75**

ROUND ALUMINUM EYEBALL AIR VENT (SMALL)

Small round-flange eyeball vent. Made from aircraft-grade 6061-T6 aluminum and hard anodized, it weighs just 3 oz. and mounts in a 2" round hole. Outside flange diameter is 2-1/4", and has 25 degrees of freedom from the vent centerline. The vent is secured with a mounting ring that will accept a 1-1/2" or 2" scat hose OR a plenum mounting nut. This vent has an opening of 1.2" which is larger than competitive vents that mount in the same size hole.

with 1-1/2" Scat Adapter, Aluminum.....P/N 05-04410 .....**$231.95**
with 1-1/2" Scat Adapter, Black.....P/N 05-04411 .....**$230.95**
with 2" Scat Adapter, Aluminum.....P/N 05-01903 .....**$230.95**
with 2" Scat Adapter, Black.....P/N 05-01904 .....**$234.95**
with Plenum Nut, Aluminum .....P/N 05-04412 .....**$230.95**
with Plenum Nut, Black .....P/N 05-04413 .....**$230.95**

LARGE SQUARE EYEBALL AIR VENTS

Large square-flange eyeball vent. Made from aircraft-grade 6061-T6 aluminum and hard anodized, it weighs just 5 oz. and mounts in a 2-3/4" hole. The mounting flange is 3" square with a 2-1/2" mounting hole pattern, and has 25 degrees of freedom from the vent centerline (50% more than in our first generation vents.) This is a direct replacement for the "whisperflo" black plastic vents. Flows 30% more air and eliminates 99% of the leakage associated with the plastic vents when closed.

Aluminum.....P/N 05-04068 .....**$234.95**
Black.....P/N 05-04070 .....**$231.95**

SMALL SQUARE FLANGED EYEBALL VENT

Small square-flange eyeball vent. Made from aircraft-grade 6061-T6 aluminum and hard anodized, it weighs just 3 oz. Mounting flange is 2.20" square, with a hole mounting pattern of 1.70". Vent adjustment is 25 degrees of freedom from the vent centerline, and has an opening of 1.2" which is much larger than vents typical of this size.

Aluminum.....P/N 05-01905 .....**$219.95**
Black.....P/N 05-01906 .....**$219.95**

REPLACEMENT VENTS FOR CESSNA 172

This vent will replace both the upper and lower vent in most Cessna 172. It is available in Black Anodized or Clear Coat Anodized and will attach to a 2" hose or the plastic cup that fit's the lower vent with 1" hose (Adapter cup not included. Reuse the cup off old OEM vent).

Black.....P/N 05-08323 .....**$234.95**
Clear .....P/N 05-10785 .....**$242.95**

ACS DUAL AIR VENTS

ACS Dual Air Vents. The vent orifices are 1" diameter and both balls swivel 45°. The mounting flange is 5 1/4" x 2 1/2" rectangular.

Black .....P/N 05-12636 .....**$147.75**
Gray .....P/N 05-12637 .....**$147.75**

AP

UNIVERSAL SPRING LOADED LATCHES

These universal spring loaded latches are designed for aircraft canopies, cockpit doors, and baggage doors. They are available in right hand and left hand models with different striker angle lock pins on the two models. These latches work great on a wide variety of experimental aircraft. Latch flange has 3/16" holes drilled for mounting.

Left hand latch (Lock Pin) .....P/N 05-04520 .....**$58.75**
Right hand latch (Lock Pin).....P/N 05-04521 .....**$58.75**

Also available in retracted bolt lock type latch with blunt striker (left hand and right hand).
Left hand latch (Retracted Bolt Lock)
P/N 05-00895 .....**$59.75**
Right hand latch (Retracted Bolt Lock)
P/N 05-00896 .....**$59.75**

BAGGAGE DOOR LOCKING LATCH FLUSH MOUNT

The locking latch has a 90° rotation handle that opens by pushing the key side of the base face. This deflection opens with the help of a spring and by rotating the handle you will pull locking pins out of the receptacles that are mounted to the inside skin of the Aircraft and outside of baggage door frame. Face opening dimension H 1 3/8" W 5.5" with radius at both ends and a .090 deep lip that will insure a flush mounting. Latch base has 4 10-32 anchor nuts for mounting to the door. The base is made of aluminum and nickel plated. Internal parts are nickel plated or stainless. Locks are weather resistant with 90° cam rotation.

Left Hand Latch.....P/N 05-12512 .....**$689.00**
Right Hand Latch.....P/N 05-12513 .....**$689.00**

SLIDER PINS AND BRACKET FOR BAGGAGE DOOR LATCH ASSEMBLY

Slider pins and bracket kit for baggage door latch assembly. **In the box:** • Quantity 2 - Kit consists of 3/8" diameter 303 SS slider pins with 3/16 diameter bolt hole at one end of slider for linkage to baggage door assembly • Quantity 2 - Slider bracket dimension H 2" W 1.2" • Quantity 1 - Switch receptacle bracket dimension H 2/3/4" W 1.4" • Quantity 1 - Receptacle bracket dimension H 2" W 1.2" *All brackets are aluminum gold anodized with 10-32 anchor nuts .....P/N 05-12514 .....**$336.00**

RV-12 CANOPY LOCK

This is an easy to retrofit canopy handle for the RV-12 with an integrated locking mechanism. Over two years was put into the design and testing of this handle. This handle was designed as an easy to install accessory that can be retrofit to an existing aircraft whether painted or unpainted. In addition, it is cnc machined and powder coated and provides a much nicer finish than the stock handle.

P/N 05-12908 .....**$439.00**

ROLL BAR GRAB HANDLES

These Aircraft Roll Bar Grab Handles assists Pilots and Passengers getting in and out of the aircraft. Facilitates the repairman getting out of precarious positions when working under the instrument panel. **Specifications**: The handles are made from light weight aluminum • They are a solid design for strength • They are 5/16" in diameter and measure 3-1/2" long • The center to center dimension is 4" • The handle length was intentionally designed rather long • It is intended to extend thru a 1-1/2" to 2" diameter roll bar • If the handle it too long for your application, you may simply cut the length short, re-drill, & tap the handle ends.

P/N 06-03154 .....**$22.80**

EASY EXIT BAR FOR VANS RV-A AIRCRAFT

The "Easy Exit Bar" a specialty accessory, developed specifically for use in the RV-A models. The product is installed by the handles on the roll bar to help leverage. Then, a console between the seats to push on the bar is installed. As people get older, getting in and out of the aircraft seems more difficult all the time. When you try to use your feet, you wind up stuffing the carpeting down under the rudder pedals, causing more work and frustration. Not the case with "Easy Exit Bar". With this current design being the all-around top performer. This one accessory can really save the day, and ease wear and tear on the body when exiting and entering the cockpit. The legs are considerably stronger than you're arms, and are accustomed to lifting one's body weight as well.

Carburated.....P/N 05-22376 .....**$157.75**
Fuel Injected .....P/N 05-22375 .....**$150.75**

EXPERIMENTAL AIRCRAFT DOOR LATCH

3D view Opening from Exterior Interior View Open Position This door latch was originally designed for a gull wing door with linkage rods extending both forward and aft, however it can be adapted to virtually any style door with appropriately designed linkage rods. The linkage rods are not included.

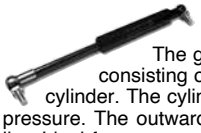
Features: • Identically keyed locks for set • Armrest flush mount interior handle • Spring loaded, flush mount exterior handle • Spring ball detent for positive open/ closed stop action

Specifications: • Made from 2024-T3 aluminum • Each latch weighs approx. 10 ounces • Dimensions for applicability pictured below • Driver travel approx. 1.25" forward and aft

For linkage rods the following aluminum is recommended: 1/4" x 1/2" 2024T3 .....P/N 03-00104 .....**$10.50**
Left Hand Door Latch.....P/N 05-01415 .....**$544.00**
Right Hand Door Latch.....P/N 05-01416 .....**$543.00**
Set of Left/Right Latches.....P/N 05-01420 .....**$1,087.00**

CESSNA EXTERIOR DOOR HANDLE

The "Help You Out Handle" is a FAA-PMA approved replacement part for a wide variety of Cessna aircraft. When your flimsy cast pot metal OEM door handle breaks in your hand, replace it with this solid metal handle milled from a single Billet of Aluminum. Never again wonder if the OEM handle will break the day someone tries to get you out of the aircraft. .....P/N 05-15411 .....**$274.95**



THE GAS SPRING

The gas spring is a self-contained counterbalance unit consisting of a piston and piston rod in a hermetically closed cylinder. The cylinder is factory-loaded with an inert gas at a given pressure. The outward force generated is continuous and linear at 45 lbs. Ideal for a canopy closure on homebuilts, as designed for George Meads Adventure.

Thread size: 5/16-18 .....P/N 05-01177 .....**$35.70**

SMALL GAS SPRING H-9530-22

Gas Springs with Composite Ends. Applications Include: Doors, lids, hatches, furniture, boats, recreational vehicles, office equipment and many more. **Note**: All composite end props use 10 mm ball studs. Safety clips are not necessary .....P/N 06-03054 .....**$25.55**

DOOR STEWARD™

The Door Steward is an STC and FAA-PMA approved modification for aircraft doors. The modern gas spring greatly improves and replaces easily broken, malfunctioning mechanical type door stops and restraints that become ineffectual with repeated use and age. Pilots enjoy the fact that the Door Steward gently opens and firmly holds the door open. The Door Steward consists of a modern inert gas spring with all the necessary brackets and hardware. Detailed installation instructions are included and make it easy to install and requires virtually no maintenance. Model 200C10

Features: With the Door Steward the door will open and stay open when needed. No more door flopping around in wind gusts or prop wash from taxiing aircraft. The cost is usually much less than repairing or replacing existing OEM door stops. Great on float equipped aircraft when water taxiing. FAA Approved on many single and light twins.

Application	Part No.	Price
Cessna 170,172, 175, 180, 182, 185, 205, 206, 207 and 210 (nonpressurized)	05-00922 Pair	**$591.00**
Cessna Left Hand Only	05-11841	**$303.00**
Cessna Right Hand Only	05-11842	**$303.00**
Beech model Series: 33, 35, 36, 55, 56, 58 and 95 Piper Model Series 23, 24, 28, 30, 32, 34, 39, 40 and 44	05-03574	**$358.00**
Fwd Utility Door Cessna 206, 206H, U206, TU206 and 207	05-03575	**$260.95**
Cessna 177, 177A, 177B and 177RG	05-04251	**$648.00**
Replacement Gas Spring Assembly for the Beech and Piper Door Steward™ with special threaded spherical bearing.	05-03574-1	**$92.75**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

ULTRALIGHT BUCKET SEAT

Bucket seat for Ultralight aircraft.

Features:
- Molded, High Impact Nylon Seat
- Reinforced Mounting Sockets
- Expanding Anchors for Positive Mounting
- Top Quality Seat Covers

Description	Part No.	Price
Bucket Seat Only	15-06383	**$90.75**
Bucket Seat Kit with Cover and Hardware	15-05070	**$234.95**
Accessories	**Part No.**	**Price**
Bucket Seat Bracket 17.25"	15-05066	**$18.65**
Bucket Seat Bracket 18.5"	15-05067	**$19.50**
Bucket Seat Cover Only	15-05068	**$100.75**
Bucket Seat Hardware Bracket Kit	15-05069	**$27.50**
Bucket Seat Expanding Anchor (Anchor Only)	15-08284	**$3.45**
Bucket Seat Clamp (Clamp Only)	15-08285	**$1.59**

HALL BROTHERS VORTEX GENERATORS FOR HOMEBUILTS

These Vortex Generators can be temporarily attached to the wing with tape for testing without harming the wing surface and then moved or attached permanently. This temporary attachment capability allows the pilot to prove out their effectiveness before permanent attachment. The design also gives a generous surface area for bonding. The Vortex Generators are made from .025" 6061-T6 aluminum for maximum durability. Hall Brothers Vortex Generators are not just used for lowering the stall speed. The stall characteristics are normally improved as well as aileron response. Some pilots have reported an increase in the rate of climb of their airplane. Many pilots say that the overall "feel" and handling of their airplane has improved throughout its speed range. The Hall Brothers Vortex Generator Kit includes enough Vortex Generators for a typical homebuilt wing (46 pairs) and stabilizer (16 pairs), tape for temporary attachment, adhesive for permanent attachment and instructions.

P/N 05-01480. .....**$311.00**

STOLSPEED VORTEX GENERATORS

Stolspeed VGs are streamlined for less drag and better appearance than other VGs. Stolspeed VGs have no sharp points and are flexible, so it's easier to wash or cover the wings. The special 3M adhesive is removable without damaging aircraft paint. Stolspeed VGs have a very slim rounded fin to give them good flexibility, and a rounded, tapered base that 'flows' into the wing surface. In clear material they're almost invisible.

80 (Enough for the tail).....P/N 05-04458 .....**$121.75**
120 (Enough for the main wing plus spares)...P/N 05-04457 .....**$169.75**

AIR WAVE VORTEX GENERATOR

As air normally flows over the wing of an aircraft in flight, the air "sticks" to the surface of the wing. This adherence to the wing's surface produces lift. If the airflow loses its adherence and separates from the wing, aircraft performance can suffer in the form of increased drag, loss of lift and higher fuel consumption. The kit contains 100pcs which is enough to do the wings. They are made from a durable poly carbonate clear material with UV protective additive. The kit comes with the instructions of where and how to attach them. The only other thing you will need is the glue.

P/N 05-04662 .....**$86.75**

FIBERGLASS WING BOLT COVERS

Fiberglass Wing Bolt Covers. Piper PA-28 / PA-32 / PA-34 / PA-44 Models. FAA-PMA Approved.

Description	Part No.	Price
GF63942-00 Wing Bolt Cover, Left	05-15278	**$131.75**
GF63942-01 Wing Bolt Cover, Right	05-15279	**$131.75**

COWLING/HOOD SCOOPS INLET/EXIT SCOOPS

BLI-16.9A
P/N 05-04306 .....**$96.75**

BLI-24.1A
P/N 05-04305 .....**$96.75**

BLI-16.9B
P/N 05-04308 .....**$78.75**

BLI-24.1B
P/N 05-04304 .....**$78.75**

VINTAGE WHEEL PANTS

Vintage style Wheel Pants, when fiberglass just won't do for that true vintage appeal. Formed out of .024 thick stainless steel. Weigh 2.9 lbs each. Fit 5x5 wheels .....P/N 05-12791 .....**$964.00**

AEROTAR PIPER SENECA COWL BRACKET

Cowl bracket for Piper PA-34 Seneca. Replacement for Piper OEM 78314-000. ....P/N 05-21777 .....**$631.00**

CARBON FIBER REPLACEMENT COWLINGS FOR CESSNAS

This line of carbon fiber cowlings are a part for part replacement for Cessna cowlings. These cowlings install just like the original Cessna parts, however no hardware is provided. North Central Aircraft Products are made of the finest quality carbon fiber and resin. Complete cowls are available on request.

Cessna 172 products are STC-PMA pending as of Sept. 2012. Cessna 182 products are STC-PMA approved.

172 Series - Lower Nose Cap - 600				
Year	**Serial No.**	**Description**	**Part No.**	**Price**
83-85	75869-76516	Standard Nose Cap - Lyc. No Light	05-04681	**$1,008.00**

180/182 Series - Upper Nose Cap - 300				
Year	**Serial No.**	**Description**	**Part No.**	**Price**
53-56	30000-32661	Upper Nose Cap- Ctr. Nose- Screws	05-04682	**$1,270.00**
57-59	32662-50661	Upper Nose Cap - Elliptical Nose - Screws	05-04683	**$1,270.00**
C182 56-58	33000-51556			

180/182 Series - Lower Nose Cap - 600				
Year	**Serial No.**	**Description**	**Part No.**	**Price**
57-59	62662-50661	Lower Nose Cap- Elliptical Nose- Screws	05-04688	**$1,236.00**
C182 56-58	33000-51556			

Please provide aircraft N number and serial number when ordering.

AP

FIBERGLASS COWLINGS

All parts are aircraft quality, hand layed for uniform thickness and light weight. Items are finished with white primer gel coat.
Note: Light fill and sanding is required for smooth ready to paint surface. A finishing service is available as an option at checkout that will leave a primer smooth surface.

AP

MC-1A NOSE COWL

Styled after the Piper Comanche, this cowl can be used on just about any homebuilt powered by the Lycoming engine. It is made in two parts, allowing the easy removal of the cowl without having to remove the prop. Used on the following airplanes: Starduster I and II, Playboy, EAA Bipe, Jodel D-11, Tailwind, Tempete & the Skybolt. Measures 35" wide by 21" high. Will accommodate a spinner approx. 12" in dia.
P/N 05-01180 .....**$238.95**

MC-1B NOSE COWL

Similar in shape and dimensions as the MC-1A cowl except, it is manufactured as a one piece unit for those who prefer a cleaner front end. The MC-1B is a few inches larger than the MC-1A .....P/N 05-01181 .....**$237.95**

MC-2 NOSE COWL

This design can be used with most any Continental or Lycoming engine. Used on the original Smith Miniplane but has been installed on the Pitts, EAA Bipe, Playboy, Flybaby & Baby Great Lakes. Measures 35"wide by 19.5" high. Face of center opening 8-1/2" O.D.
P/N 05-01182 .....**$246.95**

MC-3A NOSE COWL

Suitable for just about any Lycoming powered aircraft, this cowl comes equipped with a bump that conceals the starter motor. It is the standard Pitts Special cowl but has been installed on these aircraft: Mong, Miniplane, Playboy, Emeraude, Playmate, Baby Ace, Junior Ace, EAA Bipe, Baby Great Lakes, Skyhopper and the Falconar F-11 & 12 series. Measures 35-1/2" wide and 22-1/2" high. Center opening 8-1/ 2" dia..... P/N 05-01183 .....**$239.95**

MC-3B NOSE COWL

Same shape and size as used on the Piper PA-14. Can be used on the same aircraft as listed for the MC-3A design. For builders not wishing to use an electrical system and is seen on most Pitts Specials built for competitive aerobatics. 35" wide x 21" high. Center opening 9-1/4" dia .....P/N 05-01184 .....**$242.95**

MC-10 NOSE COWL

For installation on Tailwind or Cougar. Used with 4" prop extension. Shape rounds out the boxy appearance of the standard design. **Size:** 35"w x 22.5"h. Has been installed on Starduster I and various Lycoming powered homebuilts. Face of center opening 11-3/4" O.D .....P/N 05-01185 .....**$239.95**

CESSNA 150 NOSE COWLS

This Cessna 150 Cowl Nose Cap (shaded part shown in cowl assembly figure), Upper Cowl is a replacement part within the upper cowl assembly. This part is a NEW part not a USED or refurbished part and replaces Cessna part number 0452002-6 or 0452011-2. This part is fiberglass and comes without paint. This part fits aircraft with the 150 HP STC SA4795SW or equivalent conversion.

This Cessna 150 Cowl Nose Cap (shaded part shown in cowl assembly figure), Lower Cowl is a replacement part within the lower cowl assembly. This part is a NEW part not a USED or refurbished part and replaces Cessna part number 0452002-45 or 0452011-1. This part is fiberglass and comes without paint. This part fits aircraft with the 150 HP STC SA4795SW or equivalent conversion.

Description	Part Number	Price
150 HP Upper Cowl	05-26703	**$1,374.00**
150 HP Lower Cowl	05-26704	**$1,788.00**
180 HP Upper Cowl	05-26705	**$2,340.00**
180 HP Lower Cowl	05-26706	**$2,754.00**

MC-3C NOSE COWL

Identical to the MC-3B, but, has an opening for an oil cooler. Measures 35" wide by 21" high..P/N 05-01186 .....**$239.95**

MC-4 NOSE COWL

This nose cowl was designed for the T-18 pressure cowl system. A 4-inch prop extension is required and it is generally used with the MC-5 Bottom Cowl. Measures 36" wide by 20"high. Face of center opening 12-5/8" O.D.
P/N 05-00551 .....**$249.95**

MC-7 NOSE COWL

Originally made for the Thorp T-18, this cowl has been used on several other types. The starter ring is enclosed when used with the Lycoming. Makes a nice front end on the CA-61 & CA-65. Measures 35"W by 19.5" high. Face of center opening 13-1/2" O.D.
P/N 05-01176 .....**$239.95**

DZUS COWL LATCHES

These Dzus "over the center" type latches are used extensively on cowl doors and other applications on aircraft such as Cessna, Piper, Grumman, and many homebuilts. Available in 2 styles as shown.

MODEL #1

These Dzus over the center type latches are used extensively on cowl doors and other applications on aircraft such as Cessna, Piper, Grumman, and many homebuilts.
Model I latch: This latch provides 700 lbs. Ultimate strength and 100 lbs. Working strength. Pull up ability is 0.6 inch. Mounting holes will accept .156 in. diameter rivets or #6 round head screws. Order strikes separately.

Description Dimensions (closed)	Part No.	Price Ea.
Cowl Latch Model I	05-01187	**$3.85**
Latch Strike C8	05-01188	**$1.73**
Latch Strike C7	05-01189	**$1.25**

MODEL #2

These Dzus over the center type latches are used extensively on cowl doors and other applications on aircraft such as Cessna, Piper, Grumman, and many homebuilts. Model II latch: This latch provides 220 lbs. of ultimate strength and 45 lbs. of working strength. Pull up ability is .2 inch. Mounting holes will accept .156 in. diameter rivets or #6 round head screws. Order strikes separately. Cowl latch will ship in either clear zinc, or Cad plated. Cowl latch will ship in either clear zinc, or Cad plated.

Description Dimensions (closed)	Part No.	Price Ea.
Cowl Latch Model II	05-01190	**$3.35**
Latch Strike C9	05-04183	**$1.96**
Latch Strike C2	05-04184	**$0.97**

FLUSH LATCH

The H-5000-2 style latch is a unique spring-loaded, trigger action latch for cowling and access doors. Made of corrosion resistant steel. Rivet or spot weld to structure. Bolt Offset: .132. Trigger Offset: .102. Max. Depth: 1.23
H-5000-2.....P/N 05-11830 .....**$162.75**
New Surplus H5000-2
P/N 05-01017 .....**$64.75**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

FIBERGLASS COMPONENTS

MC-6 NOSE CHEEKS

From the latest design of John Thorp, this is a 2 piece cowl used on the T-18. Can be adapted to most homebuilts where the builder wishes to use cheeks. They have been installed on the Midget Mustang as well as the Miniplane. Makes a fine nose section .....P/N 05-01213 .....**$257.95**

MT-1 WING TIPS

Manufactured from the original T-18 plans and come ready to slip over the ends of the wing. Nav. lights are normally installed by notching the leading edge corner of these fairings and installing Plexiglass.....P/N 05-01214 .....**$456.00**

CARBURETOR INTAKE SCOOP

Carburetor intake scoop with 4-1/4" x 8" rectangular opening.....P/N 05-22500 .....**$90.95**

HEAD REST

Originally designed for the Smith Miniplane but can be used on other bipes.

P/N 05-22100 .....**$76.95**

BABY GREAT LAKES COWL

05-02883

05-02884

Fiberglass Cowl set fits Baby Great Lakes, Super Baby Great Lakes, and Buddy Great Lakes. Top and Bottom Cowl halves sold separately.

Dimensions:
33"x29"x9-1/2" (PN 05-02883) 33"x33"x19" (PN 05-02884)

Top Nose Cowl

P/N 05-02883 .....**$664.00**

Bottom Nose Cowl

P/N 05-02884 .....**$664.00**

BUDDY BABY GREAT LAKES SEAT

This fiberglass seat was designed to fit the Baby Great Lakes aircraft and is recommended by the designer. **Dimensions**: 26"x30"x19".....P/N 05-02885 .....**$416.00**

GEL-COATED FIBERGLASS WHEEL PANTS

Flat

Aero

Keep gravel, mud, dew and grass out of your prop, off your wings and off your face with these easy-to repair fiberglass reinforced polyester wheel pants. Supplied in gel-coated finish, they have a small seam along the top edge, easily removed by sanding, if desired. Sorry, no mounting hardware is included. Easy to cut and customize. White, red, black.

Wheel Pant Dimensions					
Size	Width	Height	Length	Opening	Weight
4"	5	9	22	4.4X12	1
5"	7	9	23	5.5X13.75	1.3
6"	8	9	28	8X15.75	11.5

Description	Part No.	Price
5" White Flat	06-01293	**$194.75**
6" White Flat	06-01294	**$198.75**
4" White Aero	06-01299	**$179.75**
5" White Aero	06-01296	**$237.95**
6" White Aero	06-01295	**$239.95**
6" Red Flat	06-01304	**$203.95**
5" Red Aero	06-01603	**$196.99**
6" Red Aero	06-01604	**$239.95**
5" Black Flat	06-01606	**$196.99**
6" Black Flat	06-01607	**$195.75**
4" Black Aero	06-01302	**$266.95**
5" Black Aero	06-01297	**$265.95**
6" Black Aero	06-01301	**$278.95**

MC-5 BELLY PAN

Designed to work in conjunction with the MC4 Nose Cowl. This is the most popular combination being used today and it gives your T-18 all the compound curves and beauty it deserves.

P/N 05-00025 .....**$206.95**

BUCKET SEATS

For Starduster or Skybolt. Flat Gray finish, 18" wide. Can be upholstered or used plain. Contoured bottom for parachute. These are not chopped glass seats. Hand layed up for extreme lightness. Wt. 3 lbs. 10 oz.

Note: This oversized item ships in a 21 x 21 x 21 box with a dimensional weight of 48 lbs. (56 lbs internationally)

P/N 05-22600 .....**$143.75**

TURTLE DECK

Fits the Acroduster or Skybolt. With flat mounting pad to accommodate a VHF antenna. Approx. Height 19" at front, 13" at back. Overall length, approximately 57".....P/N 05-22200 .....**$243.95**

HOERNER DESIGN WING TIPS

These wing tips are constructed of hand laid-up fiberglass which is extremely strong, has great impact strength, and is resistant to chemicals. The Hoerner design of these wing tips reduce the vortex that emanates from the trailing edge of the wing tip thereby reducing drag on the aircraft, leaving more energy available for lift and speed. Stall speed is decreased and lateral stability is improved. You will see increased cruise speed, more positive aileron control, increased rate of climb, decreased take-off distance, and improved appearance with these tips. All STC and approval data is furnished.

CHEROKEE STRAIGHT WING TIPS

PA-28 140 thru 200R models.
P/N 05-90000 ..... **$1,292.00 pr.**

CHEROKEE TAPER WING TIPS

PA-28 151 thru 236 models
P/N 05-91000 ..... **$1,047.00 pr.**

CESSNA WING TIPS

140A, 150, 170B, 172, 175, 180, 182,185,210 (pre 1974 models only)
P/N 05-94000 ..... **$1,132.00 pr.**

COMANCHE WING TIPS

All singles and PA-30 twins.
P/N 05-92000 ..... **$1,218.00 pr.**

CHEROKEE DORSAL FIN FORWARD

PA-28/PA-32
P/N 05-93000 ..... **$319.00 pr.**

BONANZA WING TIPS

35 series thru P models
P/N 05-95000 ..... **$1,527.00 pr.**

Other Products:		
Description	**Part No.**	**Price**
Cherokee Dorsal Fin Forward	05-93000	**$319.00**
Cherokee Dorsal Fin Aft.	05-02602	**$369.00**
Cherokee Tail Cone Upper	05-02603	**$330.00**
Cherokee Tail Cone Lower	05-02604	**$340.00**
Cessna 172-206 Left Wing Tip	05-12917	**$518.00**
Cessna 172-206 Right Wing Tip	05-12918	**$518.00**

AP

WHEEL FAIRINGS

All wheel fairings furnished with reinforcing bulkheads for added stability and cleanliness. Note: Light fill and sanding is required for smooth ready to paint surface. A finishing service is available as an option at checkout that will leave a primer smooth surface.

MF-1A - 5:00 X 5 fairing that is small and compact. The same shape and size as the early model Cessna 150 & measures 26" long by 7" wide. Has been used on the CA-61, Tailwind, T-18, Baby Ace, Cougar, or any homebuilt that requires this size.
P/N 05-01215.....**$438.00 Pair**

MF-2 - 5:00 X 5 teardrop style as used on the later model Cessna 150. Measuring 36" by 7", it has been installed on Tailwinds, Smyth Sidewinder, Cougar or any wheel this size.
Overall size: 35"L x 7-1/2"W
Opening Size:7.5"W x 151/2"L
P/N 05-01216.....**$352.00 Pair**

MF-3 - 5:00 X 5 with the long, narrow profile. A standard on Pitts Specials, Acro Sport, T-I 8, Cassutt & Midget Mustang. Truly a universal shape.
Overall size: 39"l x 7.5"w Opening Size:4-3/4"W x 101/2"L
P/N 05-01217.....**$438.00 Pair**

MF-4 - 5:00 X 5 Thorp T-18 fairing. This style was one of our original developments specifically for the T-18 and has proven to be very popular. Like all other listed pants, it will fit any wheel this size.
Overall size: 31.5"L x 7-1/2"w
Opening Size:14.75"wx 7"L
P/N 05-01218.....**$438.00 Pair**

MF-5 - 6:00 X 6 wheel fairing in the same shape as the J-3 Cub but, scaled down to fit this size wheel. Popular on the bi-planes, Spezio and the parasols. Gives a very classic look to your airplane.
Overall size: 30"L x 9-1/2"W
Opening Size: 7-1/2"W x 18-1/2"L
P/N 05-01219.....**$438.00 Pair**

MF-6 - 6:00 X 6 fairing styled after the late model Cessna 172 and is used on just about any designed aircraft. Measure 42" by 8" and are very pretty.
Overall size: 44"L x 8-1/4"W.
Opening Size: 8-1/4"W x 23-1/4"L
P/N 05-01220.....**$437.00 Pair**

E-Z WHEEL FARING - This wheel fairing was originally designed to fit aircraft that are using 11x400x5 wheels and tires but is suitable for many other aircraft using that tire size. This wheel fairing is made from woven fiberglass and epoxy and is split vertically (lap joint) just forward of the axle center line. Aerodynamically, this fairing is very clean. Requires screws and nutplates to attach sections, hardware not included. L-31 3/8" x H-10 1/4" x W- 8 1/2".
P/N 05-12769.....**$624.00**

MF-7 - 6:00 X 6. Same size and shape as the Piper Cherokee fairings. A standard on the Stardusters, Skybolt and used on m any other designs.
Overall size: 37"L x 8"W
Opening Size: 13-1/2"W x 7"L
P/N 05-01221.....**$438.00 Pair**

MF-8 - 5:00 X 5 pant. Almost the same dimension as the MF-3 however, has more of a point on the tip. Also popular on the Pitts, Cassutt, T-18 and Midget Mustang.
Overall size: 37-1/2"L x 8"W
Opening Size: 14-3/4"W x 6"L
P/N 05-01222.....**$438.00 Pair**

MF-9 - J-3 Cub design for any bi-plane or parasol using the larger size wheels.
Overall size: 29"L x101/2"W
Opening Size:8-1/4"Wx18"L
P/N 05-01223.....**$455.00 Pair**

MF-10 - 7:00 X 6. For aircraft using the larger wheels and also for the Stinson or Funk. Much lighter than the factory originals.
Overall size: 31"L x 11"W
Opening Size: 19"L x 10"W
P/N 05-01224.....**$438.00 Pair**

MF-11 - 6:00 X 6 wheel fairings. Same size and shape as used on the Tripacer, Pacer or Colt. More streamlined design than the MF-9. A nice installation on the Super Cub w/ 8.00 x 4 wheels.
Overall size: 43"L x 9-1/2"w
Opening Size: 9.5"w x 18.5"L
P/N 05-01225.....**$456.00 Pair**

MF-12 - 5:00 X 5 RACING FAIRINGS. Fits the V-Witt, Cassutt, Owl or any Formula One, Formula V or Bi-plane using this size wheel. Race proven.
Overall size: 40"L x 7-1/2"W
Opening Size: 4.5"W x10-3/4"L
P/N 05-01226.....**$438.00 Pair**

WHEEL PANT COVERS

Stop tow-bar wheel pant scuffing. & Avoid costly wheel pant repainting. Available in standard black, navy or burgundy. Fits models: Cessna 172 I 182 I 206 Cherokee

- Made from heavy-duty vinyl
- Padded backing
- Attaches quickly using Velcro(tm)
- Stores easily
- Personalization available

Navy .....P/N 05-03048 .....**$110.75**
Black.....P/N 05-03049 .....**$110.75**
Burgundy .....P/N 05-03050 .....**$110.75**
Red.....P/N 05-22091 .....**$110.75**

PA28/PA32 REFINED SPEED PANTS

FAA approved Laminar Flow Speed Pants will add up to 10.5 mph over bare wheels and up to 8 mph over stock wheel pants for all Piper PA-28 and PA-32 aircraft models. A special pressure recovery design improves rate of climb with most installations.
At 10 pounds, these second generation Speed Pants are lighter and up to 5 times stronger than conventional Piper wheel pants. They are made of three layers of hand-laid, 10 ounce fiberglass which is oven cured with a high strength resin. Additional layers of cloth are applied to stress areas. A removable panel allows easy access to brakes. Wing to wheel fairing improve the aesthetics of the main gear.
Fancy Pants - Gains up to 10 MPH .....P/N 05-22157 .....**$1,779.00**
Speed Pants without Strut Fairings.....P/N 05-22156 .....**$4,755.00**
Speed Pants with Strut Fairings.....P/N 05-03627 .....**$5,482.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

F. ATLEE DODGE REPLACEMENT PARTS

F. Atlee Dodge has been providing quality aviation services since 1957, known for modifications to Super Cubs and many other types of aircraft, along with supplying a wide selection of general aviation aircraft parts. Products such as: Engine Cowlings, Exhaust Systems, Heaters, Folding Seats, Long Range Fuel Tanks, Float Fittings, Skis & Ski Rigging Parts, Enclosed Baggage Compartments, Shoulder Harnesses & Attach Mounts, Custom Steps & Stainless Steel Handles, Super Cub Landing Gear Components, Super Cub Tailfeathers, Standard & oversize, and External Load Modification. It is emphasize that some of these products are intended to provide components primarily for non-certificated/experimental aircraft, and other possible non-aviation uses. Just because it fits doesn't make it appropriate for aircraft, please be sure to check with the FAA if using outside the parameters of experimental aircraft. **When requesting STC Documents an additional charge may apply. STC Documents must be requested at time of order and may not be cancelled or returned.**

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
150	RH Tailpipe			K0450338-66	05-07837	**$174.95**
150	LH Tailpipe			K0450338-67	05-07839	**$174.95**
150	RH Muffler			K0450400-26	05-07841	**$656.00**
150	RH Muffler			K0450400-26M	05-07843	**$575.00**
150	LH Muffler			K0450400-3	05-07844	**$653.00**
150	LH Riser			K0450400-69	05-07847	**$174.95**
150	RH Riser			K0450400-70	05-07849	**$103.75**
150	RH Riser			K0450400-74	05-07851	**$103.75**
150	152 Muffler			K0454009-6	05-07852	**$864.00**
170	Muffler			KAVCON-01	05-07853	**$951.00**
172	Right Rear Riser			K1754007-1	05-07861	**$408.00**
172	Left Rear Riser			K1754008-1	05-07862	**$332.00**
172	Left Front Riser			K1754009-1	05-07863	**$332.00**
172	Right Front Riser			K1754010-1	05-07864	**$332.00**
170, 180, 185, 206	Water Rudder - Lift Handle	N	N	3359-1	05-07797	**$536.00**
170/172	Right hand muffler			K0550157-32	05-07858	**$899.00**
170/172	Riser			K0550157-7	05-07857	**$128.75**
170/172	Riser			K0550157-8	05-07856	**$237.95**
170/172	Left hand muffler			K0550157-9	05-07854	**$899.00**
170/172	172/175 Muffler			K0550176-59	05-07859	**$864.00**
180/182	Muffler			K0750130-12	05-07873	**$732.00**
180/182	Muffler			K0750130-9	05-07874	**$750.00**
180/182	Collector STC'd			K0750130M-48	05-07871	**$1,329.00**
180/182	Collector 12.5"			K0750161-67A	05-07868	**$1,182.00**
180/182	Collector 13"			K0750161-67B	05-07869	**$1,124.00**
180HP	Fuel Caps	N	N	3267-180	05-03458	**$188.75**
206/207/210	Muffler RH			K1250251-13	05-07878	**$724.00**
206/207/210	Right Hand Collector			K1250264-2	05-07877	**$1,007.00**
28-140/150/160/180	Left Front Stack			K63726-02	05-07894	**$697.00**
28-140/150/160/180	Right Front Stack			K63726-04	05-07892	**$570.00**
28-140/150/160/180	Left Rear Stack			K63726-05	05-07893	**$350.00**
28-150/151/160/161/180/181	Left Front Riser			K35300-00	05-07901	**$287.95**
28-150/151/160/161/180/181	Right Front Stack			K62230-00	05-07898	**$327.00**
28-150/151/160/161/180/181	Right Rear Stack			K62232-00	05-07899	**$250.95**
28-150/151/160/161/180/181	Muffler			K66894-00	05-07897	**$581.00**
28-150/151/160/161/180/181	Piper 28-140 Muffler			K99482-00	05-07904	**$943.00**
28-150/151/160/161/180/181	Piper 28-180 Muffler			K99482-02	05-07906	**$943.00**
28-235	Muffler			K65012-00	05-07909	**$782.00**
28-235	Left hand stack			K65038-00	05-07907	**$1,040.00**
28-235	Right hand stack			K65039-00	05-07908	**$986.00**
28-235	Muffler			K65813-00	05-07912	**$899.00**
28-235	Muffler			K68718-03	05-07911	**$1,012.00**
28R-180	Muffler			K67517-00	05-07918	**$667.00**
28R-180	Left Front Riser			K67617-00	05-07913	**$292.95**
28R-180	Left Rear Riser			K67618-00	05-07914	**$292.95**
28R-180	Right Front Riser			K67619-00	05-07915	**$1,945.00**
28R-180	Right Rear Riser			K67620-00	05-07916	**$292.95**
31-300/310/325	Left hand elbow			K16000-11	05-07926	**$260.95**
31-300/310/325	Left rear elbow			K16000-13	05-07924	**$518.00**
31-300/310/325	Right hand elbow			K16000-15	05-07926	**$260.95**
31-300/310/325	Right rear elbow			K16000-17	05-07925	**$518.00**
31-300/310/325	Left hand tube			K16000-3	05-07922	**$256.95**
31-300/310/325	Right hand tube			K16000-5	05-07927	**$256.95**
31-300/310/325	Right hand assembly			K16825A	05-07921	**$1,498.00**
31-300/310/325	Left hand assembly			K16826A	05-07919	**$1,498.00**
31-300/310/325	Upper tailpipe			K40310-08	05-07928	**$907.00**
31-300/310/325	Lower tailpipe			K40310-09	05-07929	**$978.00**
31-350	Right rear elbow			K16000-7	05-07932	**$521.00**
31-350	Right hand elbow			K16000-9	05-07931	**$181.85**
31-350	Upper tailpipe			K40310-09	05-07933	**$907.00**
31-350	Upper tailpipe			K40310-10	05-07929	**$978.00**
32-300	Left Rear Stack			K38137-02	05-07939	**$336.00**
32-300	Left Center Stack			K38137-03	05-07938	**$336.00**
32-300	Left Front Stack			K38137-04	05-07937	**$326.00**
32-300	Right Front Stack			K38137-05	05-07941	**$362.00**
32-300	Right Center Stack			K38137-06	05-07942	**$362.00**
32-300	Right Rear Stack			K38137-07	05-07943	**$362.00**
32-300	Muffler			K67517-00	05-07918	**$667.00**
32-300	Stack			k68793-00	05-07946	**$873.00**
32-300	Muffler: Listed as "STEERING HORN:			K68796-00	05-07944	**$1,082.00**
C-170	Ski Attach Kit Cessna	N	N	3168-170	05-07738	**$575.00**

F. ATLEE DODGE REPLACEMENT PARTS

AP

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
C-170, C-180, C-185	Step Kit Replacement - Side Cowl	N	N	3354-S	05-07756	**$166.75**
C-170, C-180, C-185	Step Kit Replacement - Handle	N	N	3354-H	05-07757	**$147.75**
C-170, C-180, C-185	Step Powder Coated White	Y	N	8013-01	05-07754	**$677.00**
C-170, C-182, C-185	V-Brace - CUSTOM FABRICATED	N	N	N/A	05-07789	**$1,162.00**
C-180	Ski Attach Kit Cessna	N	N	3168-180	05-07739	**$575.00**
C-180	Step Kit Replacement - Strut	N	N	3354-12	05-07759	**$170.80**
C-180	V-Brace	Y	Y	180-VBE	05-07788	**$1,284.00**
C-180, C-185	Shroud - Muffler	Y	N	4236	05-03478	**$857.00**
C180-C185	Muffler - Seaplane Extended	Y	N	AD750161-89	05-07686	**$1,180.00**
C-185	Collectors	N	N	CES0002	05-07552	**$1,701.00**
C-185	Collector HD	N	N	CES0003(HD)	05-07553	**$2,095.00**
C-185	Ski Attach Kit Cessna	N	N	3168-206	05-07741	**$851.00**
C-185	Step Kit Replacement - Strut	N	N	3354-13.5	05-07761	**$191.80**
C-206	Exhaust Deflector	Y	Y	3238	05-07568	**$766.00**
C-206	Ladder - Boarding	Y	Y	3193	05-07652	**$1,541.00**
C-206	Ski Attach Kit Cessna	N	N	3168-185	05-07742	**$575.00**
C-206	Tail Pipe Deflector	Y	Y	3238	05-07786	**$1,376.00**
C-206	Tailpipe - Landplane	N	N	LH = AD1250256-7	05-07779	**$820.00**
C-206	Tailpipe - Landplane	N	N	RH = AD1250264-6	05-07781	**$820.00**
C-206	Tailpipe - Seaplane	N	N	LH = AD1242013-1	05-07782	**$1,011.00**
C-206	Tailpipe - Seaplane	N	N	RH = AD1242013-2	05-07783	**$1,011.00**
C-206, C-207	Muffler - 206 Heavy Duty, LH	Y	N	AD1250250-5	05-07679	**$961.00**
C-206, C-207	Muffler - 206 Heavy Duty, RH	Y	N	AD1250251-16	05-07681	**$645.00**
C-206, C-207	Seat Back Frame - Heavy Duty	Y	N	3226	05-07714	**$856.00**
C-206, C-207	Shroud - Muffler, LH, HD	N	N	AD125250-6	05-07731	**$871.00**
C-206, C-207	V-Brace	Y	N	AD1242001-18	05-07787	**$1,070.00**
C-207	Tailpipe	N	N	LH = AD1254004-3	05-07777	**$485.00**
C-207	Tailpipe	N	N	RH = AD1254004-4	05-07778	**$485.00**
C-208	Seat Removal Tool	N	N	208-SRT	05-07723	**$100.75**
C-208	Seat Track Tie Downs	Y	Y	TDC-208	05-07724	**$144.75**
Cessna	Battery Rack Firewall	Y	Y	8008-01	05-03460	**$782.00**
Cessna	Clamp - Exhaust 206	Y	N	AD1250259-1	05-07539	**$693.00**
Cessna	Door Hinge Pins - Large Dia 1/8	N	N	AD0711038-1	05-07563	**$71.75**
Cessna	Door Hinge Pins - Small Dia 3/32	N	N	AD0711001-59	05-07562	**$61.75**
Cessna	Filler Neck Red. Dia (Shaw) w/o Cap	Y	Y	3188	05-07586	**$468.00**
Cessna	Jack Pad	N	N	AD180-JP-2	05-07647	**$125.75**
Cessna	Seat Jump - Folding	Y	Y	3187-L, -R	05-07722	**$6,491.00**
Citabria/Bellanca	Front stack	N	N	7-1298	05-07949	**$1,110.00**
Citabria/Bellanca	Rear stack	N	N	7-1299	05-07947	**$1,110.00**
Citabria/Bellanca	Muffler w/ Tailpipe			K3-1493	05-07952	**$580.00**
Citabria/Bellanca	Muffler w/o Tailpipe			K4-1104	05-07951	**$510.00**
DHC-2	Beaver Ladder - Boarding	N	N	N/A	05-07508	**$1,172.00**
DHC-2	Beaver Floor Tie Down Attach	Y	Y	3181	05-07511	**$820.00**
DHC-2	Beaver Strut Assy Door Post	Y	Y	3309	05-07509	**$1,013.00**
DHC-2	Beaver Tube - Torque; Tail Wheel Steering	N	N	N/A	05-07512	**$1,735.00**
DHC-2	Front Fuselage Strut Assy	Y	Y	3309	05-07509	**$1,013.00**
DHC-2	Gasket - Inspection Cover	N	N	N/A	05-07613	**$26.95**
DHC-2	Gasket - Sending Unit	N	N	N/A	05-07612	**$31.50**
DHC-2	Ladder - Boarding	N	N	N/A	05-07653	**$1,172.00**
DHC-2	Seat - Center Row Folding Seat	Y	Y	3180	05-07719	**$4,356.00**
DHC-2	Seat Belt Tie Down	Y	Y	3181	05-07511	**$820.00**
DHC-2	Water Rudder Tiller	N	N	N/A	05-07802	**$194.75**
EDO 2000	EDO 2000 Post & Blade Assy	N	N	N/A	05-07564	**$1,365.00**
EDO 2000	Float Pulleys	N	N	N/A	05-07598	**$17.95**
EDO 2000	Rudder Posts	N	N	N/A	05-07699	**$969.00**
EDO 2000	Splash Rails Kit 89-8000	N	N	N/A	05-07753	**$303.00**
EDO 2000	Water Rudder - Blade Assy	N	N	N/A	05-07792	**$485.00**
EDO 2000	Water Rudder - Blade Only	N	N	N/A	05-07793	**$220.95**
EDO 2000	Water Rudder - Hinge	N	N	N/A	05-07794	**$115.75**
EDO 2000	Water Rudder - Posts	N	N	N/A	05-07799	**$969.00**
EDO 89-2000	Float Splash Rails	N	N	N/A	05-07602	**$264.95**
EDO 89-2000	Water Rudder - Pickup Handle	Y	N	3359-2	05-07798	**$132.75**
Helio Courier	Right hand stack			K395-061-001-02	05-07953	**$1,042.00**
Helio Courier	Left hand tailpipe			K395-061-001-52	05-07956	**$288.95**
Helio Courier	Right hand tailpipe			K395-061-001-54	05-07957	**$288.95**
J3	Right Stack			K70671-00	05-07879	**$757.00**
J3	Muffler			K71053-02	05-07881	**$932.00**
J3	Left Stack			K71082-00	05-07882	**$757.00**
J3	Tailpipe			K74501-00	05-07883	**$409.00**
J3 & PA-11, -18	Float Fittings - Weld On	Y	Y	3143-18	05-02529	**$921.00**
J-3 thru PA-18	Shoulder Harness Attach Bracket - Front	Y	N	3232-1	05-07728	**$179.75**
J-3 thru PA-18	Shoulder Harness Attach Bracket - Rear	Y	N	3232-2	05-07729	**$232.95**
J-3 thru PA-18	Stick Covers	N	N	3343	05-07767	**$794.00**
J-3 thru PA-18	Stringers, Large or Small	N	N	1232-162	05-07768	**$57.99**
J3 thru PA-19	Step Main Landing Gear - Long	Y	Y	3195	05-03461	**$524.00**
J3 thru PA-22	Fuel Caps - VENTED	Y	Y	3267	05-03459	**$191.75**
J3 thru PA-22	Remote Compass Mount Bracket	Y	Y	1033	05-07694	**$332.00**
J3 thru PA-22	Step Refueling	Y	Y	3190-10	05-07762	**$185.99**
J3 thru PA-22	Step Refueling	Y	Y	3190-11	05-07764	**$185.99**
J3 thru PA-22	Step Refueling	Y	Y	3190-12	05-03462	**$250.95**
J-3 thru PA-22	Tail Handles - Weld On	N	N	J20652-000	05-07502	**$256.95**
J-3, PA-11, -18	Water Rudder - Pickup Tubes	N	N	3359-6	05-07803	**$118.75**

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F. ATLEE DODGE REPLACEMENT PARTS

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
J3, PA-11, -18, -19	Main Landing Gear - 1 1/4" Std RH or LH	Y	N	3225-1, -2	05-07661	**$820.00**
J-3, PA-11, -18, -19	Safety Cables MLG - STD	Y	Y	2089-18	05-03463	**$410.00**
PA-11 thru -18	Seat Belt Attach Kit Front	Y	Y	3246	05-07716	**$434.00**
PA-12	Boot Cowling Assy	N	N	12-BC	05-07516	**$1,892.00**
PA-12	Bracket - Lift Strut Reinforcing	Y	Y	3192-12	05-07518	**$101.80**
PA-12	Defroster Kit	N	N	3242-12	05-07558	**$1,545.00**
PA-12	Firewall - Titanium	N	N	12-TFW	05-07592	**$1,102.00**
PA-12	Float Fittings - Weld On	Y	Y	3143-12	05-03476	**$1,495.00**
PA-12	Instrument Panel	N	Y	1034	05-07642	**$662.00**
PA-12	Muffler - PA-12 under repair station	N	N	AD10308-002	05-07682	**$1,033.00**
PA-12 STC ONLY	X Brace Top Deck - SA02379AK	N	Y	8031	05-07812	**$435.00**
PA-12, -14	Cabane	Y	Y	3166-2	05-07523	**$733.00**
PA-12, -14	Cabane Attach Fittings - Weld On	N	N	3166-2AF	05-07526	**$354.00**
PA-12, -14	Fuel Tank 30.5 Gal RH w/ Kit	Y	Y	3140-516	05-07608	**$4,708.00**
PA-12, -14	Fuel Tank 30.5 Gal LH w/ Kit	Y	Y	3140-516	05-11160	**$4,708.00**
PA-12, -14	Muffler - Hot Rod, PA-12	N	Y	AD10308-HR	05-07683	**$2,545.00**
PA-12, -14	Safety Cables MLG - 3X	Y	Y	3344-12	05-03466	**$406.00**
PA-12, -14	Safety Cables MLG - STD	Y	Y	2089-12	05-03465	**$350.00**
PA-12, -14	Tailbrace Beef Up	N	N	1022-12	05-07773	**$343.00**
PA-12, -14, -18	Shock Strut- 3" EXT	Y	Y	3164-3, -4	05-07658	**$209.95**
PA-12, -14, -18	Shock Strut- STD	Y	Y	3164-1, -2	05-07657	**$209.95**
PA-12, -18	Aircraft Tie Down Loop	Y	N	3218	05-07499	**$84.75**
PA-12, -18	Elevator Square	N		Ron Sullivan	05-07548	**$766.00**
PA-12, -18	Lumber Rack	N	N	12-LR, 18-LR	05-07656	**$1,013.00**
PA-12, -18	Rudder Square	N		Ron Sullivan	05-07551	**$856.00**
PA-12, -18	Shock Strut- 6" EXT	N	N	3164-5, -6	05-07659	**$278.95**
PA-12, -18	Stabilizer Square	N		Ron Sullivan	05-07549	**$766.00**
PA-14	Instrument Panel	N	N	1034-2	05-07644	**$649.00**
PA-18	Aircraft Tie Down Bracket	Y	Y	3197	05-07498	**$231.95**
PA-18	Baggage - Extended	Y	Y	2103	05-07503	**$1,683.00**
PA-18	Battery Rack Front Seat	Y	Y	3304	05-04766	**$824.00**
PA-18	Battery Strap	Y	N	3278	05-07507	**$72.95**
PA-18	Blank Panel	N	N	1034-B	05-07646	**$39.90**
PA-18	Boot Cowling Assy	N	N	18-BC	05-07514	**$2,087.00**
PA-18	Boot Cowling Assy - Titanium	N	N	N/A	05-07517	**$2,861.00**
PA-18	Bracket - Lift Strut Reinforcing	Y	Y	3192-18	05-07519	**$74.75**
PA-18	Brake Reinforcing Channel	Y	N	4231	05-07521	**$179.75**
PA-18	Cabane	Y	Y	3166-1	05-07524	**$541.00**
PA-18	Cables Push Pull	Y	N	3310	05-07528	**$83.95**
PA-18	Carb Heat Box	N	N	AD15005-00	05-07529	**$2,144.00**
PA-18	Cargo Nets	N	N	3234	05-07531	**$750.00**
PA-18	Channels - Cowling Lower	Y	N	3277	05-07536	**$169.75**
PA-18	Channels - Cowling Upper	Y	N	3276	05-07537	**$169.75**
PA-18	Defroster Kit	N	N	3242-18	05-07559	**$925.00**
PA-18	Exterior Paneling - Boot Cowl L.H. Rear	N	N	N/A	05-07567	**$70.75**
PA-18	Exterior Paneling - Boot Cowl R.H. Rear	N	N	N/A	05-07566	**$70.75**
PA-18	Fairings	Y	N	AD12274-00	05-07572	**$89.75**
PA-18	Fairings	Y	N	AD12274-02	05-07573	**$85.75**
PA-18	Fairings	Y	N	AD12275-00	05-07574	**$100.75**
PA-18	Fairings	Y	N	AD12275-01	05-07576	**$95.75**
PA-18	Fairings	Y	N	AD11523-00	05-07577	**$84.75**
PA-18	Fairings	Y	N	AD12276-00	05-07579	**$115.95**
PA-18	Fairings	Y	N	AD12276-01	05-07581	**$110.75**
PA-18	Fairings	Y	N	AD11719-00	05-07582	**$146.75**
PA-18	Fairings	Y	N	AD11719-01	05-07583	**$129.75**
PA-18	Filler Neck Repair Kit	N	N	3140-60R	05-07587	**$285.95**
PA-18	Firewall - SS	Y	N	8007-01	05-07588	**$881.00**
PA-18	Firewall - Titanium	Y	N	8007-02	05-07591	**$1,005.00**
PA-18	Firewall - Titanium w/ Boot Cowl	N	N	18-BC-T	05-07593	**$2,812.00**
PA-18	Fuel Tank 30.5 Gal LH w/ Kit	Y	Y	3140-L	05-07609	**$5,893.00**
PA-18	Fuel Tank 30.5 Gal RH w/ Kit	Y	Y	3140-R	05-11161	**$5,893.00**
PA-18	Headliner	N	N	18-HL	05-07622	**$926.00**
PA-18	Hydrasorb units	N	N	12998-S	05-07627	**$1,447.00**
PA-18	Instrument Panel - w/ Insert	N	Y	1034-1	05-07643	**$649.00**
PA-18	Interior Panel Set (Excludes Upper Wing Panels)	N	N		05-07641	**$997.00**
PA-18	Interior Paneling - LH Center	N	N	12308-05	05-07629	**$156.99**
PA-18	Interior Paneling - LH Front, FWD	N	N	10776-02	05-07628	**$122.75**
PA-18	Interior Paneling - LH Rear	N	N	12444-00	05-07631	**$130.80**
PA-18	Interior Paneling - RH Center	N	N	10930-00	05-07633	**$97.75**
PA-18	Interior Paneling - RH Front	N	N	12311-00	05-07632	**$115.75**
PA-18	Interior Paneling - RH Rear	N	N	12445-00	05-07634	**$224.95**
PA-18	Interior Paneling - Throttle Panel FWD	N	N	12309-00	05-07636	**$300.95**
PA-18	Interior Paneling - Throttle Panel Rear	N	N	12314-00	05-07637	**$150.75**
PA-18	Interior Paneling - Upper Wing RH	N	N	12618-00	05-07638	**$108.75**
PA-18	Interior Paneling -Upper Wing Butt LH	N	N	12617-03	05-07639	**$176.75**
PA-18	Knobs - Mixture	Y	N	3312-1	05-07651	**$18.65**
PA-18	Lifting Eyes	N	N	3217	05-07654	**$142.75**
PA-18	Main Landing Gear - 1 1/2" 3" Ext RH or LH	Y	Y	3284-1A, -2A	05-07664	**$975.00**
PA-18	Main Landing Gear - 1 1/2" Std RH or LH	Y	Y	3225-A1, -A2	05-07662	**$820.00**
PA-18	Mount - Oil Cooler LH	Y	Y	6018	05-07674	**$679.00**
PA-18	Mount - Oil Cooler RH	Y	Y	6003	05-07673	**$238.95**

F. ATLEE DODGE REPLACEMENT PARTS

AP

A/C Type	Description	FAA PMA	STC	OEM Part No.	Part No.	Price
PA-18	Muffler - Hot Rod, PA-18	Y	Y	3241-HR	05-07684	**$2,977.00**
PA-18	Muffler - STD - Heavy Duty	Y	Y	3241	05-03425	**$64.75**
PA-18	Oversize Round Elevator	N	N		05-07556	**$820.00**
PA-18	Oversize Round Rudder	N	N		05- 07554	**$961.00**
PA-18	Rear Seat Cross Bar	Y	Y	3146	05-07692	**$336.00**
PA-18	Rear Seat Heater w/ Hose	Y	Y	3175	05-07693	**$1,031.00**
PA-18	Safari Seat	Y	Y	6151	05-07701	**$1,173.00**
PA-18	Safety Cables - 3X, LOWER ONLY	N	N	3344-18-LOWER	05-07712	**$256.95**
PA-18	Safety Cables MLG - 3X, WIDE BODY	N	N	3344-18-4W	05-07708	**$355.00**
PA-18	Safety Cables MLG - 3X	Y	Y	3344-18	05-03464	**$388.00**
PA-18	Seat - Folding Front Kit	Y	Y	3186	05-03474	**$780.00**
PA-18	SEAT BOTTOM - FOLDING	N	N	3186-SBL	05-07718	**$151.75**
PA-18	Shroud - Muffler, 2 Piece	Y	Y	3236	05-03456	**$1,016.00**
PA-18	Shroud - Pre-Heat, 2 Piece	Y	Y	3182	05-03457	**$528.00**
PA-18	Sight Gage 30.5	Y	Y	3286-1	05-07737	**$104.75**
PA-18	Ski Spring - Gold	Y	Y	2127	05-07746	**$272.95**
PA-18	Ski Springs - Silver	Y	Y	2097	05-07747	**$272.95**
PA-18	Strobe Light Mounting Bracket	Y	Y	2087	05-07769	**$296.95**
PA-18	Water Rudder Tiller	N	N	PP1023	05-07801	**$79.95**
PA-18	Winter Front	N	N	WINTER FRONT	05-07809	**$115.75**
PA-18	Front Stack			K12457-12	05-07569	**$946.00**
PA-18	Rear Stack			K12457-13	05-07571	**$1,102.00**
PA-18 STC ONLY	X Brace Top Deck - SA2011AK	N	Y	3261	05-07813	**$398.00**
PA-18, -19	Header Tanks - Front	Y	Y	3169-1	05-07619	**$495.00**
PA-18, -19	Header Tanks - Rear	Y	Y	3169-2	05-03469	**$514.00**
PA-18, -19	Tailbrace Beef Up	N	N	1022-18	05-07774	**$380.00**
PA-18-150	Dome - Carb Air Filter	Y	N	3281	05-07561	**$206.95**
PA-22	Fuel Tank 30.5 Gal LH w/ Kit	Y	Y	3258	05-11162	**$4,708.00**
PA-22	Fuel Tank 30.5 Gal RH w/ Kit	Y	Y	3258	05-07611	**$4,708.00**
PA-22	Front Stack			K12093-23	05-07888	**$997.00**
PA-22	Rear Stack w/shroud			K13238-05	05-07889	**$1,295.00**
Piper	Cabin Heater Box	N	N	18-CHB	05-07527	**$504.00**
Piper	Seat Track Tie Downs	Y	N	TDP-31	05-07727	**$174.95**
Piper & Husky MLG	Axe - Survival	N	N	AD-18-SA	05-07502	**$256.95**
PA-12 and PA-18	6X Safety Cable Kits / Built to Order			3344-12-6X	05-07709	**$327.00**
PA-12 and PA-18	6X Safety Cable Kits / Built to Order			3344-18-6X	05-07711	**$327.00**
---	Axel Adapter, Pair	N	N	2079	05-07501	**$522.00**
---	Belly Pan Clean Out Kit	Y	N	3285	05-07513	**$495.00**
---	Cargo Tie Down Bases	N	N	40000-11	05-07532	**$31.50**
---	Cargo Tie Down Hooks - Weld On 4130N	N	N	3234-10	05-07534	**$48.99**
---	Cargo Tie Down Rings	N	N	40340-20	05-07533	**$31.50**
---	Clamps - Heavy Duty 1/2"	N	N	N/A	05-07542	**$17.50**
---	Clamps - Heavy Duty 1/4"	N	N	N/A	05-07543	**$17.50**
---	Clamps - Heavy Duty 3/8"	N	N	N/A	05-07544	**$17.50**
---	Clamps - Muffler	N	N	N/A	05-07547	**$84.75**
---	Clamps Umpco Any Size	N	N	N/A	05-07541	**$18.65**
---	Cleveland Wheel & Brake - Will Not Work With Cessna Tubular Style Land Gear	N	N	STC Only	05-07538	**$434.00**
---	Exhaust Stack - Front	N	N	K12457-12	05-07569	**$946.00**
---	Exhaust Stack - Rear	N	N	K12457-13	05-07571	**$1,102.00**
---	Float Pulley w/ Brackets	N	N		05-07599	**$35.50**
---	Float Pulleys w/ Eyebolts	N	N		05-07601	**$82.75**
---	FUEL CAP KEEPER w/o CAP	N	N	3267-KPR	05-07607	**$54.75**
---	Gaskets - Gas Cap	N	N	4050	05-07616	**$33.85**
---	Gaskets - Gas Cap	N	N	4969	05-07617	**$40.75**
---	GUST LOCKS	N	N	AD18-GL	05-07618	**$234.95**
---	Heat Shield Engine Mount	N	N	3274-8, -10, -12	05-07624	**$75.75**
---	Husky Gear	Y	N	AD45017, - 501HD, -502HD	05-07626	**$3,072.00**
---	Knobs - Push Pull (Plain)	N	N	3311	05-07649	**$17.60**
---	Main Landing Gear - 1 1/2" 6" Ext RH or LH / Built to Order				05-07666	**$997.00**
---	Main Landing Gear - HD Cabane for 6X MLG / Built to Order				05-07669	**$645.00**
---	Main Landing Gear Bolt Kits	N	N	N/A	05-07668	**$93.75**
---	MLG 3X3 - Fabricated Per Customer Request/ Needs Cabane				05-07671	**$961.00**
---	Muffler - Maul	Y	N	AD5266 (LH)	05-07677	**$1,785.00**
---	Muffler Clamp	N	N		05-07676	**$84.75**
---	Reservoir - for Hydraulic Skis	N	N	2080-S1, -H1, -L1	05-07696	**$457.00**
---	Rigging - w/ Springs	N	N	2609-S	05-07697	**$1,118.00**
---	Rigging - w/o Springs	N	N	2609-X	05-07698	**$575.00**
---	Safety Cable Bolt Kit	N	N	N/A	05-07713	**$40.75**
---	Ski / Brake Keepers	N	N	2609-BK	05-07743	**$119.99**
---	Ski Plates	N	N	VA1013	05-07751	**$37.95**
---	Ski Selector Valve	N	N	2609-SV	05-07744	**$310.00**
---	Ski Washers	N	N	VA1016	05-07752	**$18.70**
---	Washer - Axle	N	N	N/A	05-07791	**$79.75**

PMA PRODUCTS REPLACEMENT PARTS

PMA Products, Inc.

For more than 15 years PMA Products, Inc. has been the reliable, affordable alternative for the highest quality FAA/PMA approved parts for Piper, Beech, Cessna, Embraer, and Pratt & Whitney. In 2006 PMA Products, Inc. received the Leadership Award from MARPA, the Modification & Replacement Parts Association. Aircraft Spruce is proud to offer more than 200 PMA Products Inc. parts to the general aviation community.

Oem	Description	Oem Part No.	Spruce Part No.	Price
Beech / Cessna	Fuel Cap Seal	38241	05-07332	**$50.75**
Cessna	Fuel/alcohol Pump	476411	05-07373	**$478.00**
Embraer	Back Up Ring	Bds3115-026c	05-07493	**$2.56**
Lear	Bushing	2341120-1	05-07307	**$57.75**
Marvel Sc	Gasket, Fuel Screen	16-a48	08-06629	**$7.50**
Mccauley	Carbon Block	B5121	05-07492	**$174.99**
Mooney	Transducer, Fuel Press.	3060-00017	05-07318	**$202.95**
	Transducer, Oil Press.	3060-00018	05-07319	**$274.95**
	Transducer, Fuel Press.	880007-501	05-07463	**$202.95**
	Transducer, Oil Press.	880008-501	05-07464	**$202.95**
Piper	Bushing, Landing Gear	14843-016	05-07289	**$15.50**
	Bushing, Landing Gear	14843-018	05-07291	**$26.50**
	Bushing, Steering	14976-102	05-07292	**$46.50**
	Cap, Fuel	17672-000	05-07299	**$176.75**
	Bushing, Gear Housing	20737-023	05-07301	**$36.65**
	Bushing, Nose Gear Idler	20737-032	05-07302	**$31.50**
	Bushing	20737-040	05-07303	**$37.95**
	Bushings, Door Mech.	20737-044	05-07304	**$33.85**
	Fastener	26246-000	05-07309	**$58.75**
	Cap, Fuel	27221-000	05-07311	**$137.95**
	Axle, Nose Wheel	31797-000	05-07327	**$508.00**
	Bulkhead	35323-012	05-07328	**$456.00**
	Fuel Pump	35328-800	05-07329	**$379.00**
	Hinge, Aileron	35636-000	05-07331	**$168.75**
	Bushing, Nose Gear Housing	40250-002	05-07333	**$103.75**
	Bushing, Flap Roller	41413-005	05-07334	**$31.50**
	Bushing, Seat Roller	41413-038	05-07336	**$35.75**
	Bushing, Door Mech.	41413-041	05-07337	**$31.50**
	Bushing, Main Gear Fork	43256-002	05-07339	**$34.50**
	Bushing, Main Gear Housing	43256-005	05-07341	**$41.50**
	Bushing, Nose Gear Housing	43256-006	05-07342	**$46.50**
	Stall Switch Assembly	450-742	05-07344	**$827.00**
	Bearing, Rod End	452-334	05-07346	**$33.95**
	Bearing, Rod End	452-335	05-07347	**$46.50**
	Bearing, Rod End	452-336	05-07348	**$47.65**
	Bearing, Rod End	452-368	05-07349	**$87.99**
	Bearing, Flap	452-387	05-07351	**$53.75**
	Bearing, Stabilator	452-394	05-07352	**$85.75**
	Bearing, Rod End	452-412	05-07353	**$64.75**
	Bearing, Rod End	452-439	05-07354	**$103.75**
	Bearing, Stabilator	452-538	05-07356	**$576.00**
	Bearing, Landing Gear	452-575	05-07357	**$137.80**

Oem	Description	Oem Part No.	Spruce Part No.	Price
Piper Cont'd	Bearing, Aileron	452-584	05-07358	**$52.75**
	Bearing, Rod End	452-860	05-07359	**$46.65**
	Bushing	453-903	05-07361	**$20.60**
	Static Discharger	456-802	05-07362	**$35.70**
	Universal	46203-002	05-07366	**$1,750.00**
	Pitot Heater Element	464-356	05-07367	**$151.75**
	Pitot Heater Element	464-357	05-07368	**$151.75**
	Pitot Heater Element	464-440	05-07369	**$145.95**
	Pitot Heater Element	464-441	05-07371	**$155.75**
	Quad Ring	484-769	05-07374	**$8.50**
	Quad Ring	484-770	05-07377	**$13.50**
	Ring Scraper	486-188	05-07378	**$18.99**
	Transducer, Fuel Press.	486-439	05-07379	**$219.95**
	Transducer, Oil Press.	486-440	05-07381	**$219.95**
	Bulkhead	587-330	05-07393	**$547.00**
	Hinge Pin	62002-002	05-07396	**$9.50**
	Hinge Pin	62002-003	05-07397	**$10.80**
	Hinge Pin	62002-004	05-07398	**$15.90**
	Hinge, Aileron	62371-008	05-07399	**$143.75**
	Universal	62834-802	05-07401	**---**
	Bushing, Torque Link	63310-000	05-07402	**$31.50**
	Barrel, Trim	63530-000	05-07403	**$119.75**
	Hinge, Tab	63560-002	05-07404	**$27.55**
	Hinge, Tab	63560-003	05-07406	**$31.50**
	Capacitor, Alternator	63897-006	05-07407	**$74.75**
	Bushing, Flap Hinge	63900-019	05-07408	**$22.50**
	Bushing, Landing Gear	63900-089	05-07409	**$21.50**
	Bushing, Nose Gear	63900-109	05-07411	**$24.75**
	Bushing, Nose Gear	63900-122	05-07412	**$28.85**
	Bushing, Main Gear	65003-041	05-07413	**$27.55**
	Bushing, Main Gear	65003-044	05-07414	**$28.85**
	Bushing Nse. Gr. Drag Brce.	65003-045	05-07416	**$31.70**
	Bushing, Nose Gear	65003-046	05-07417	**$37.95**
	Shaft, Trim	65246-000	05-07422	**$133.75**
	Shaft, Trim	65246-002	05-07423	**$125.75**
	Tube, Nose Strut	65280-000	05-07424	**$1,058.00**
	Fuel Pump	65628-800	05-07426	**$365.00**
	Gasket, Fuel Cap	66815-000	05-07427	**$10.50**
	Bushing, Torque Link	67026-007	05-07428	**$28.85**
	Bearing	67026-011	05-07429	**$23.50**
	Bushing, Main Gear	67026-012	05-07431	**$64.75**
	Switch, Landing Gear	67411-002	05-07432	**$196.99**
	Switch, Landing Gear	67411-003	05-07433	**$196.99**
	Switch, Landing Gear	67411-004	05-07434	**$196.99**
	Switch, Landing Gear	67411-005	05-07436	**$196.99**
	Switch, Landing Gear	67411-006	05-07437	**$196.99**

Oem	Description	Oem Part No.	Spruce Part No.	Price
Piper Cont'd	Switch, Landing Gear	67411-007	05-07438	$196.99
	Switch, Landing Gear	67411-008	05-07439	$196.99
	Switch, Landing Gear	67411-020	05-07441	$194.75
	Switch, Landing Gear	67411-021	05-07442	$196.99
	Down Limit Switch	95232-000	05-10891	$245.95
	Bushing, Teflon	69790-000	05-07443	$15.90
	Plate, Cowl	69791-000	05-07444	$41.50
	Fitting, Swivel	70371-002	05-07446	$17.90
	Stud Swivel	70371-003	05-07448	$32.50
	Gasket, Fuel Bowl	751-871	05-07451	$16.50
	Bushing, Torque Link	77780-005	05-07452	$33.85
	Strut, Alternator Brace	78483-000	05-07453	$50.60
	Bumper, Nose Gear	79072-000	05-07454	$8.99
	Roller, Flap	86102-104	05-07457	$24.75
	Roller, Flap	86102-105	05-07458	$24.50
	Roller, Flap	86102-106	05-07459	$29.70
	Bulkhead, Spinner	87325-010	05-07461	$557.00
	Roller, Seat	87332-002	05-07462	$33.85
	Bushing, Aileron Hinge	95061-108	05-07469	$30.50
	Bushing, Nose Gear	95061-133	05-07471	$40.75
	Hinge, tab	95864-002	05-07472	$20.50
	Hinge, tab	95866-002	05-07473	$20.65
	Barrel, Trim	96596-002	05-07474	$221.95
Pratt & Whitney	Fuel Transfer Tube	3011155	05-07312	$62.80
	Bearing, Rod End	3011587	05-07313	$133.75
	Fuel Transfer Tube	3020030	05-07314	$74.75
	Gasket, Fuel Nozzle	3029566	05-07316	$3.60
	Gasket, Fuel Nozzle	3029678	05-07317	$6.50
	Retainer Plate	3103345-01	05-07321	$123.90
	Diaphragm	3103346-01	05-07322	$336.00
	Diaphragm	3103347-01	05-07323	$340.00
	Shim, Prop Shaft	3110998-01	05-07324	$156.99
	Gasket	3118962-01	05-07326	$28.50
	Gasket, Fuel Nozzle	Ms9371-16	05-07497	$6.50
Raytheon / Beech	Seat Foot	100-530448-5	05-07239	$110.75
	Seat Foot	100-530448-7	05-07242	$118.75
	Bushing, Nose Gear	100-820017-1	05-07243	$28.60
	Bushing, Landing Gear	101-810014-1	05-07244	$28.50
	Bushing	101-810014-3	05-07246	$31.50
	Bushing, M. Torque Link In Gear	101-810024-3	05-07252	$31.55
	Torque Link Bushing	101-810024-5	05-07253	$41.50
	Pin, Torque Link	101-810025-1	05-07254	$158.75
	Bolt	101-810090-1	05-07257	$242.95
	Bolt	101-810090-3	05-07258	$224.95
	Bolt, Main Gear Drag Brace	101-810145-1	05-07261	$278.95
	Bolt, Main Gear Drag Brace	101-810146-1	05-07262	$137.75
	Door Closure Roller	105739x-yn1437	05-07263	$34.50
	Bushing, N. Torque Link Ctr	105740x-ya0630	05-07264	$29.95
	Bushing, M. Torque Link Ctr	105740x-ya1625	05-07266	$40.75
	Bushing	105740x-yd0160	05-07267	$55.75

Oem	Description	Oem Part No.	Spruce Part No.	Price
Raytheon / Beech Cont'd	Bushing	105740x-yk0563	05-07269	$40.75
	Bushing	105740x-yn0520	05-07271	$64.75
	Bushing, N. Torque Link Center	105740x-yn0625	05-07272	$28.50
	Bushing, M. Torque Link Center	105740x-yn0677	05-07273	$29.70
	Bushing, Gear Door	105740x-zu0260	05-07274	$29.65
	Bushing, Nose Steering	105740x-zv0312	05-07276	$20.50
	Bushing, Main Drag Link Center	114-810038-1	05-07277	$62.80
	Bushing, Main Drag Link In Gear	114-810042-1	05-07279	$59.75
	Bushing, Main Drag Link In Gear	114-810049-3	05-07281	$46.50
	Bushing, Nose Attach Lug	114-820113-1	05-07282	$36.85
	Steering Roller	114-820062-1	05-07283	$31.55
	Bushing	115-610019	05-07284	$31.55
	Bushing, Main Gear	115-810064-1	05-07286	$74.75
	Bushing	115-810066-3	05-07287	$54.75
	Thrust Washer	115-810074	05-07288	$33.85
	Switch, Stall	151	05-07294	$794.00
	Fuel Cap Seal	457-98	05-07363	$31.50
	Bushing, Torque Link	45-815013	05-07364	$60.75
	Fuel Pump	476284	05-07372	$478.00
	Washer	50-105000-3	05-07382	$8.50
	Wiper Blade (refill Only)	50-384082-1	05-07383	$32.65
	Bushing	50-524476-1	05-07384	$74.75
	Bushing	50-524476-3	05-07386	$74.75
	Seat Foot	50-534436-5	05-07387	$39.50
	Bushing, Upper Torque Link	50-810034	05-07388	$33.90
	Main Strut Upper Bearing	50-810326	05-07389	$210.95
	Pin	50-810343-5	05-07391	$46.50
	Pin	50-810343-7	05-07392	$46.50
	Switch, Mic	601-4300	05-07394	$75.75
	Bushing, Ns Torque Link Center	90-810019-1	05-07466	$23.50
	Bushing, Drag Link	90-820010-1	05-07467	$29.70
	Bolt, Nose Gear	90-820011-1	05-07468	$185.99
	Mic Switch	99-340253-1	05-07476	$129.75
	Bushing, Torque Link	99-810060-1	05-07477	$39.50
	Bushing	99-810064-1	05-07478	$33.95
	Bushing	99-810064-3	05-07479	$31.50
	Bushing, Main Drag Link Center	99-810066-1	05-07481	$32.50
	Bearing, Nose Gear	99-820099	05-07482	$284.95
	Yoke	A3025	05-07483	$51.75
	Carbon Block	A3026	05-07484	$100.75
	Carbon Block Assembly	A3044	05-07486	$173.75
	Seal, Drain Valve	Cca1269	05-07494	$4.65
	Seal, Drain Valve	Cca1319	05-07496	$4.65
Saab	Bearing	Air130986	05-07488	$824.00
	Bearing	Air130988	05-07489	$795.00
Various	Filter / Gasket	Various	05-07338	$29.70

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

CESSNA COWL FLAP RIGHT AND LEFT

These cowl flaps feature a replaceable stainless steel hinge that may be removed and replaced using screws. The specific model applicability for these cowl flaps are the C-180C, D, E, F, G, H, J and 180K; the 182B, C and D; 185, 185A, B,C,D, 185E, A185E and A185F. FAA Approved.

Left.....P/N 05-03393 .....**$1,967.00**
Right .....P/N 05-03394 .....**$1,967.00**

HORIZONTAL STABILIZER ADJUSTING SCREW AND BARREL
FOR C-180, 185 AND C-182 THRU C-182D

Screw.....P/N 05-07000 .....**$499.00**
Barrel .....P/N 05-07005 .....**$191.75**

HORIZONTAL STABILIZER ADJUSTING CAM

Cessna Adjusting Cam. - U0712502; Trim screw adjusting cam. FAA/PMA Approved .....P/N 05-07010 .....**$65.99**

STABILIZER TRIM SCREW BOOT
FOR C-180, C-185, AND C-182 THRU C-182D

Boot .....P/N 05-07015 .....**$101.80**

CESSNA 120/140 FUEL VALVE KIT

This valve has a very smooth action with positive detents. Like the original valve, it has positions for left-on, right-on and both-off. Unlike the original, it is not prone to sticking or binding. It does not require periodic seal replacement or lubrication. This PMA'd replacement valve will mount almost identically to the original OEM valve. It uses the same tank selector plate and the same mounting hardware as the original. This valve is sold in a kit that includes the handle and installation instructions. The handle has no "pointer." This is in compliance with AD47-43-02.

P/N 05-03407 .....**$710.00**

C-120, C-140 LIFT STRUT ROD ENDS

Front Rod End.....P/N 05-07020 .....**$177.75**
Rear Rod End.....P/N 05-07025 .....**$147.75**

C-172 OIL DOOR

Applicable on the following models:
(172, 172A, B, C, D, E, F, G, H, I, J, K, L, M, N, P, Q)
P/N 05-07030 .....**$499.00**

C-180, 182, & 185 SERIES COWL OIL DOOR

Applicable on the following models: For 180—180G, 182—182G & 185—185C .....P/N 05-07035 .....**$602.00**

CESSNA AILERON HINGE

For all C-150, 152, 170A, 170B, 172, 180, 182 & 185.
P/N 05-07040 .....**$148.99**

AIRCRAFT TAIL SKID - NON FAA-PMA

This easy-to-install tail skid is designed to save the tail feathers on most single engine Cessna's. Made from 4130 aircraft steel.....P/N 13-17010 .....**$21.50**

MCFARLANE CDHP-KT-1 HINGE PIN KIT

McFarlane CDHP-KT-1 Hinges for Cessna 172 & 175 Aircraft. **Features**: • AA-PMA solid welded design • Precision pin holes for longer life • Straight or bent to fit older aircraft • Pre-drilled and epoxy primed • Heat treated where required for extra strength and wear resistance
FAA-PMA approved.....P/N 05-26511 .....**$158.75**

MCFARLANE SHOCK STRUT BEARING

FAA-PMA approved for Cessna aircraft.
P/N 05-27105 .....**$150.75**

C-170 TAILWHEEL SPRINGS

Tailwheel Spring Assembly.... P/N 06-15000 **$413.00**
Main Leaf Only..... P/N 06-15100 **$163.90**

C-120/140 TAILWHEEL SPRING SETS
(LATER CESSNA SPRING SET SHOWN)

Early 120-140 (single bend, originally on SN 8001-14026)
P/N 05-07055 .....**$387.00**
120-140 (SN 14027 and up).....P/N 06-14800 .....**$377.00**
120-140 main leaf only (SN 8001-14026) ...P/N 05-07065 .....**$123.90**
120-140 main leaf only (SN 14072 & up)....P/N 06-14900 .....**$114.75**

RUDDER BELLCRANK
FOR C-120, 140 & 170

P/N 05-07075 .....**$541.00**

WING FABRIC CLIP
FOR C-120/140/170

P/N 09-19900 .....**$1.04**

RUDDER & ELEVATOR SKINS

Cessna 180, 185, 182-182B FAA-PMA. Sold in pairs only, includes both Right and Left sides.
P/N 05-07090 .....**$655.00**

ALL METAL COWLING PARTS FOR 120-140

1946 Cowling Items
Lower Cowl Skin, Left .....P/N 05-07165 .....**$1,826.00**
Lower Cowl Skin, Right.....P/N 05-07170 .....**$1,826.00**
Nose Cowl Only.....P/N 05-07175 .....**$1,311.00**

C-120/140 COWL GRILLS

FAA/PMA Approved. Also approved for 170, 170A, and170B thru SN 25372.
Cessna 140/170 left hand grill (U0452207)
P/N 05-07180 .....**$326.00**
Cessna 140/170 right hand grill (U0452207-1)
P/N 05-07185 .....**$312.00**

C-120/140 ENGINE MOUNT ASSEMBLY

120-140 .....P/N 05-07190 .....**$1,556.00**
140A.....P/N 05-07195 .....**$2,253.00**

CESSNA 182 SERIES OIL DOOR

Applicability: Cessna 182H, 182J, 182L, 182M, 182N, 182P (through serial number 18261425)
• FAA-PMA approved
• Supercedes part numbers 1552004-10 and 0552173-6
P/N 05-04788 .....**$391.00**

EXHAUST CUFF FOR CESSNA 340

The problem • The exhaust pipe creates parasitic drag within the slip stream • Non-laminar flow conditions occur at the opening of the cowl • Aircraft esthetics are affected by the protrusion of the pipe. The exhaust cuff solution eliminates non-laminar airflow about the exhaust port • Reduces cylinder head temperatures • Cruise performance increased • Enhances the esthetics of the aircraft
Cessna Exhaust Cuff 340 .....P/N 05-04475 .....**$546.00**

AP

(FAA/PMA APPROVED)

AP

LEVER TYPE WINDOW LATCHES & COMPONENT PARTS

05-07130

Latch Assembly Applicable on: 120, 140, 140A, 170, 170A, 170B, (SN 20267 thru 25372).
P/N 05-07100 .....**$539.00**

05-07145

W/ High Polish
P/N 05-11449 .....**$595.00**

05-07140 05-07125

Latch Assembly Applicable on: 170B (SN 25373 & on), 172, 175, 180 & 182
P/N 05-07105 .....**$539.00**
W/ High Polish
P/N 05-11450 .....**$639.00**

COMPONENT PARTS

Arm (for -2 assy.)(U0413362-8) .....P/N 05-07110 .....**$70.75**
Arm (for -3 assy.)(U0413362-9) .....P/N 05-07115 .....**$74.75**
Bracket (U0413362-13) .....P/N 05-07120 .....**$100.75**
Knob (U0413359) .....P/N 05-07125 .....**$36.99**
Extension Arm (U0413362-12) .....P/N 05-07130 .....**$111.75**
Angle (left side)(U0413362-10) .....P/N 05-07135 .....**$14.50**
Angle (right side)(U0413362-11) .....P/N 05-07140 .....**$13.50**
Pin (U0413362-14) .....P/N 05-07145 .....**$31.50**
Pin (U0413362-16) .....P/N 05-07150 .....**$33.85**
Pin (U0413362-15) .....P/N 05-07155 .....**$33.85**
Spacer (U0413362-7) .....P/N 05-07160 .....**$17.50**
Washer (2 req'd) .....P/N AN960-10 .....**$0.07**
Washer (2 req'd) .....P/N AN960-10L **$0.06**

CABIN ENTRY STEP FOR CESSNA AIRCRAFT

Cabin Entry Step for Cessna Aircraft. Applicable to:
- 170, 170A, B - 18000 thru 27169
- 180,180A,B,C,D,E,F-30000thru18051312
- 185, 185A, B, C, D, E, A185E* - 1850001 thru 1851300
- Partial model eligibility

Left Cabin Access.....P/N 05-04176 .....**$714.00**
Right Cabin Access .....P/N 05-04177 .....**$710.00**

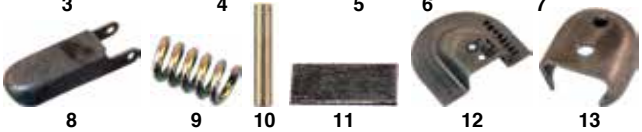
COWL LATCHES AND DETAILS FOR 120-140 AND 170 SERIES

1 2

HOOK & LEVER ASSEMBLIES

1) Hook Assembly .....P/N 05-07200 .....**$159.75**
2) Lever Assembly.....P/N 05-07205 .....**$500.00**

3 4 5 6 7


8 9 10 11 12 13

DETAIL PARTS

3) Recess .....P/N 05-07210 .....**$57.75**
4) Lever .....P/N 05-07215 .....**$44.85**
5) Clip .....P/N 05-07220 .....**$53.75**
6) Pin .....P/N 05-07225 .....**$26.50**
7) Housing .....P/N 05-07230 .....**$48.99**
8) Hook.....P/N 05-07235 .....**$57.75**
9) Spring.....P/N 05-07240 .....**$35.50**
10) Pin .....P/N 05-07245 .....**$26.50**
11) Shim .....P/N 05-07250 .....**$3.35**
12) Recess .....P/N 05-07255 .....**$92.75**
13) Hook.....P/N 05-07260 .....**$86.90**

CESSNA SPINNERS

05-07275 05-09030

NOTE: Cessna 172 Spinner Dome P/N 05-09045 will not work for 1960 Cessna 172A.
Cessna spinner dome for - F, G, H, J, 150 K
P/N 05-09030 .....**$577.00**
Cessna front plate for - 150 F, G, H, J, 150 K
P/N 05-09035 .....**$918.00**
Cessna rear plate for - 150 F, G, H, J, 150 K
P/N 05-09040 .....**$710.00**
Cessna spinner backplate for - early Cessna 170 & 172 for Continental 8 hole flanges .P/N 05-07265 .....**$272.95**
Cessna spinner dome for- early Cessna 170 & 172 for Continental 8 hole flanges .....P/N 05-07270 .....**$933.00**
Cessna spinner kit - early Cessna 170 & 172 for Continental 8 hole flanges .....P/N 05-07275 .....**$1,321.00**
Cessna Spinner Kit - 170B S/N: 25373 & Up & 172 S/N:2800 Thru 46754 Front Backplate Attached Directly To Spinner.
Rear 8-Hole Backplate .....P/N 05-22125 .....**$566.00**
Cessna dome for - 172 A-F.....P/N 05-09045 .....**$976.00**
Cessna front plate for - 172 A-F .....P/N 05-09050 .....**$797.00**
Cessna rear plate for - 172 A-F .....P/N 05-09055 .....**$590.00**
Cessna dome for - 172 I, K, L, M, N, & P ...P/N 05-07280 .....**$797.00**
Cessna front plate for - 172 I, K, L, M, N, & P...P/N 05-07285 .....**$504.00**
Cessna rear plate for - 172 I, K, L, M, N, & P..P/N 05-07290 .....**$652.00**

CESSNA 182 ALUMINUM SPINNERS

These aluminum spinners and spinner support spacers are FAA approved for installation on several models of Cessna 182 series aircraft using McCauley two blade constant speed propellers. The Spinner Dome replaces original Cessna p/n 0752637K200, 0752637-5 and 0752637-11. The Spinner Spacer replaces original Cessna p/n 0752620-1 and 0752620-3. The Spinner Dome is approved on the Cessna 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q and the 182R. The Spinner Support Spacer is approved on Cessna Models 180H, 180J, 180K, A185E, A185F, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 210-5 (205), 210-5A (205A), 206, U206, P206 and the U206A.
Spinner Dome U0752637K200 .....P/N 05-01901 .....**$1,307.00**
Spinner Sport Spacer U0752620-3 .....P/N 05-01902 .....**$13.50**

FLAP TRACK WEAR GAGE

McFarlane Aviation Products has developed a new tool to determine Flap track wear. McFarlane developed this tool to positively indicate when the flap track is worn beyond service limits. Flap Track Wear Gage Use to determine if a Cessna flap track is worn beyond service limits. Flap Track Wear Gage Instructions: Run the gage plug along each slot in each flap track while verifying that the gage will not enter the slot. Reposition the flaps as required to gage the entire length of each slot. If the gage enters a slot at any point the track is worn beyond service limits. The diameter of the gage is .6035 inches (diameter tolerance +.000/-.002)Periodically verify the gage diameter by measuring the age diameter with a calibrated micrometer .....P/N 05-02145 .....**$81.75**

VENT TUBE ADAPTER BRACKET CESSNA

CW-172001 replacement for Cessna part #0700325-2 adapter assembly. Eligible for installation on Cessna 172, 172A, 172B, 172C, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q.
P/N 05-04645 .....**$114.75**

MCFARLANE SHROUD ASSEMBLY AIRBOX SEALS KITS

Air Filter Shroud Assemblies for Cessna - FAA-PMA approved. McFarlane now has FAA-PMA approval on their improved Cessna Airbox Shroud/Seal Assemblies for various 150, 152 and 172 aircraft! McFarlane Airbox Seal Assemblies for select Cessna aircraft have drastically improved the life of their part using aluminum instead of plastic. McFarlane patented Cowl Saver Material with Bi-Flex is used with the new shroud to prevent cowl damage.
ABS-KT-01 Airbox Seals Kit .....P/N 05-27127 .....**$68.95**
ABS-KT-02 Airbox Seals Kit .....P/N 05-27128 .....**$110.75**
ABS-KT-03 Airbox Seals Kit .....P/N 05-27129 .....**$144.85**

AILERON HINGE FOR CESSNA

FAA – PMA APPROVED AS0523816-1
P/N 05-00048 ...**$150.75 ea.**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

CESSNA PARTS

Aircraft Spruce and Specialty stocks a large inventory of Cessna replacement parts. Some of the most commonly required parts are listed on this page. If you require Cessna parts not listed here, please provide us with the Cessna part numbers and we will provide you with a prompt quotation. All of the parts listed here are authentic Cessna factory parts and all carry our low price guarantee. Please verify that the parts are correct for your Cessna model/year by referring to the applicable Cessna parts manual prior to ordering.

Call for Prices on Unlisted Cessna Parts

Part. No.	Description	Price
S1258-1	Sump	$27.55
SK172-1F	Strut Kit	$115.75
S1093-1	Flap Buttons	$0.34
NAS75-3-009	Bushing	$6.50
NAS77-3-23	Bushing	$4.65
NAS77-8-88	Bushing	$8.99
MS25171-1	Nipple	$1.66
MS25171-2	Nipple	$1.95
C156003-0101	Fuel Cap	$250.95
C592001-0201	Static Wick Certified	$106.75
11-10574	Static Wick Non Certified	$37.95
B100142-1	Fuel Cap Gasket	$21.50
S1991A1	Contactor	$267.95
S2020-2	Drain Valve	$64.75
S2106-4	Drain Valve	$54.90
S2160-1	Switch	$12.50
S2237-3	Seat Belt Bushing	$3.35
S2416-1-31.0	Alt Belt	$68.80
0400213-6	Compass Placards	$10.80
0413613-1-279	Panel Nut	$4.65
0511242-1	Seat Stop	$28.65
1220114-1	Spacer	$1.80
1243030-5	Shim	$30.50
1243030-6	Shim	$21.60
1243030-7	Shim	$21.50
1250860-29219	Clamp	$116.99
1298119-4	Exhaust Spring	$16.50
06-03498	Fastener S2319-1	$9.50
0711021-9	Door Spring for Window	$20.50
1414104-54	Bushing	$60.75
1513174-3	Grey Panel Nut	$19.50
1513174-5	Black Panel Nut	$19.50
0523919	Bushing	$19.50
0523920	Roller	$131.99
0523921	Roller	$114.75
0541139	Plug	$86.75
9910306-1	Westgate Gasket	$59.75
0711001-59	Hinge Pin	$40.75
0713348-1	Stall Horn	$137.90
S2488-1	Stall Horn Reed	$88.75
0756009-8	Gasket	$74.75
0851559-1	Washer	$9.60
0756010-6	Plunger	$577.00
0756011-1	Standpipe	$711.00
S1450-6B14-010	Washer	$4.65
S1597-1-37.5	Belt V	$114.75
B3-5-1	Filter Vac	$4.99
S1921-1	Clamp	$219.95
U10C062-262M	Clamp	$69.85
S2870-1	Switch Press To Test	$24.50
S2091-5	Resistor	$350.00
S339-1	Clip	$9.50
S339-3	Clip	$10.99
111190-8	Ring Scraper	$75.75
S11L-162C	Ring	$9.50
B40012	Brush	$381.00
A2748	Seal	---
A2749	Seal Wiper	$24.50
MS25253-1	Switch	$17.60
1234665-10	Tab	$2,319.00
S1906-1	Switch	$44.85
S1906-2	Switch	$24.50
S1230-17	Control	$172.75
S1230-19	Control	$314.00
RD0015H1600JBL	Rheostat	$3,264.00
0441139-6	Shim	$148.75
0541111-2	Shim	$435.00
0441157-2	Shim	$211.95

Part. No.	Description	Price
0441157-1	Shim	$110.75
1250405-1	Nut	$577.00
MS29513-338	O-Ring	$3.70
AN6235-2A	Filter Hyd	$21.50
AN6235-3A	Element	$27.50
1250922-200	Adapter	$7,998.00
1250922-201	Adapter	$7,686.00
0750142-1	Gasket	$123.75
0756009-1	Fuel Filter	$143.75
0741623-4	Tread	$34.50
0441157-3	Shim	$65.75
0556010-200	Adapter Ass'y.	$1,329.00
1232040-5	Boot	$179.75
79C1	Drain Valve	$246.95
S2485-1	Drain Valve	$82.75
P52-0016	Contactor	$330.00
S1579A2	Contactor	$234.95
S1580A1	Contactor	$227.95
S1588-1	Gasket	$122.75
S1588-2	Gasket	$54.90
0750143-2	Deflector	$76.95
0750143-3	Bracket	$72.75
0851559-1	Washer	$9.60
S1915-1	Capacitor	$170.75
S1915-2	Capacitor	$203.95
S1994-1-1	Switch	$64.75
S2334-3	CHT Probe	$660.00
S1258-1	Sump	$27.55
S3010-1	Switch	$115.75
S1104-3	Rod End	$48.99
S1105-4	Rod End	$79.85
C592001-0201	Wick	$106.75
C592001-0203	Wick	$99.75
S1704-1	Roller	$4.35
1714000-22	Washer	$7.70
16165	Wick	$114.75
KM610-64	Latch	$75.75
S11L-161C	Spring	$9.50
S11L-174C	Spring	$15.85
S11K-3A	Seal	$58.99
S11K-4R	Seal	$58.75
3009022	Washer	$57.75
B3-11-1	Gasket	$72.80
S1477-3	Nut	$1.87
S1477-08	Nut Clip	$2.56
NH1000897-30	Clamp	$564.00
NH1000897-40	Clamp	$953.00
NH1000897-50	Clamp	$668.00
NH1000897-60	Coupling	$697.00
DGR3	ACU	$631.00
DGR6	Regulator	$303.00
SK152-25A	Rudder Stop	$234.95
P52-0016	Contactor	$330.00
05-14700	O-Ring	$1.59
390K4E	Alternator Belt	$204.95
0422344	Tie Down Bolt	$310.00
P264-5037-1	Oil Pressure Sender	$895.00
05-22397	Oil Pressure Switch 83278	$115.90
05-22149	R860025 Seal CM 2919-2.50	$4.45
06-03306	Nose Strut Pressure Valve S1827-1	$27.55
06-03307	Pulley S378-4	$68.95
06-03308	Ammeter 53280-1	---
06-03309	Cross Arm 0713020-2	$158.75
06-03310	Cowling Cover 075273-14	$1,767.00
06-03313	Door Handle	$546.00
06-03314	Switch S3443-1-1	$32.50
06-03315	Toggle Switch S1158-2-1	$206.95
06-03316	Rubber Bushing 0550155	$20.50

Part. No.	Description (cont'd)	Price
06-03317	Recepticle	$1.32
06-03318	Fasteners	$25.95
06-03319	Right Side Retainer	$492.00
06-03322	Bracket	$544.00
06-03325	Spinner Front Plate	$1,509.00
06-03326	Fastners S3412-105	$13.50
06-03327	Fastners S3412-108	$17.50
06-03328	Textron Fuel Cap 100-381005-15	$2,756.00
06-03329	Body Assembly JMDX36-001	$1,138.00
06-03330	Bf Goodrich Aerospace Cleaner (32 Oz)	$78.75
06-03331	Toggle Switch S1160-1-1	$256.95
06-03334	Nose Faring 05436079-15	$1,771.00
06-03336	Float Switch	$2,197.00

Part. No.	Description	Price
06-03337	Knob Assembly	$22.80
06-03338	Resistor	$147.75
06-03339	Inserts 182D	$13.60
05-22169	AA1K1-4-8 Fitting	$137.75
05-22889	Bearing S1004-15A	$2.97
06-03534	Terminal S1493-2	$1.94
06-03535	Brackett 0517018-8	$148.75
1552010-1	Spring	$7.75
RG65	Grommet	$30.50
S2800-797	Resistor	$199.80
50-820038	Retainer	$45.50
NAS561P12-48	Roll Pin	$3.35

CESSNA TRIM CONTROL CHAINS

We carry FAA-PMA approved replacement trim control chains for Cessna 120 through 210 series aircraft. Call the Cessna/Piper parts specialist at Aircraft Spruce (1-877-4-SPRUCE) for assistance in determining the correct chain for your aircraft.

Model No.	Part No.	Price Ea.
ASS2294-25	05-00289	$8.50
ASS2295-25-185	05-00291	$511.00
ASS2295-25-249	05-00292	$385.00
ASS2295-25-43	05-00294	$123.99
ASS2295-25-47	05-00295	$136.75
ASS2295-25-61	05-00296	$235.95
ASS2295-25-63	05-00297	$413.00
ASS2295-25-67	05-00298	$289.95
ASS2295-25-70	05-00299	$49.70
ASS2295-25-71	05-00301	$74.75
ASS2295A25-111	05-00302	$61.75
ASS2295P25-113	05-00303	$282.95
ASS2295P25-155	05-00304	$341.00
ASS2295P25-159	05-00305	$185.99
ASS2295P25-185	05-00306	$114.75
ASS2295P25-321	05-00307	$265.95
ASS2295P25-47	05-00308	$94.90
ASS2295P25-55	05-00309	$116.99
ASS2295P25-59	05-00311	$71.75
ASS2295P25-63	05-00312	$114.75
AS2295P25-67	05-00313	$177.75
ASS2295P25-69	05-00314	$205.95
ASS2295P25-71	05-00315	$208.95
AS0432138-2	05-00316	$275.95

6260 RETAINING NUT 7/16-20

The retaining nut threads onto the threaded section of the control on the back side of the instrument panel to secure the control. Replacement retaining nut p/n 6260 for all McFarlane MC6350 dual push-to-unlock controls.....P/N 05-04581 .....**$10.50**

INTER-CYLINDER BAFFLE

Intercylinder Baffles for Teledyne Six Cylinder Engines. Replaces Cessna Part Number 0750135-1 and 0851833-1 .....P/N 05-02362 .....**$104.75**

CESSNA FLAP TRAILING EDGE STIFFENER

Improved Fit to Reduce Skin Stress. The stiffeners are accurately shaped to the same angle that the top and bottom skins come together to completely eliminate the bending stress due to riveting the skins together. FAA/PMA Approved. For application please call or visit our website.

Flap Tracing Edge Stiffener 79.5".....P/N 05-00046 .....**$142.75**
Flap Tracing Edge Stiffener 116.25".....P/N 05-07237 .....**$254.95**

CESSNA WHEEL PANT MOUNTING PLATES

These FAA-PMA approved mounting plates are anodized for improved corrosion resistance and will save over $100 compared to factory mounting plates. Approved with partial eligibility for the Cessna 150, 152, and 172. Verify approval for your aircraft with Aircraft Spruce prior to ordering.

Cessna P/N	Aircraft Model	Our P/N	Price Each
0441225-1 (Left)	150/152	05-01497	$291.95
0441225-2 (Right)	150/152	05-01498	$292.95
0441220-1 (Left)	172	05-01499	$176.75
0441220-2 (Right)	172	05-01501	$148.80

CESSNA CARAVAN BUSHING KITS ELEVATOR AND RUDDER

Cessna has issued several non-mandatory service bulletins and service kits for the rudder and elevator hinge bearings on the Caravan due to a corrosion issue with the needle bearing. The service kits require modification to the hinge structure, not just the bearing itself. The new bearing is a different size than the "original" design, so the mounting hardware is different as well. Because of these structural changes any aircraft that has had the service kits installed cannot use hardware from a non-service kit aircraft. Includes bearings and all attaching hardware.

Caravan Elevator Bushing Kit EBC-KT-7 ....P/N 05-06879 .....**$163.90**
Caravan Elevator Bushing Kit EBC-KT-8 ....P/N 05-06880 .....**$704.00**
Rudder Bushing Kit RBC-KT-9.....P/N 05-06881 .....**$100.75**
Rudder Bushing Kit RBC-KT-10.....P/N 05-06882 .....**$457.00**

CESSNA CABLE & CHAIN KITS

Complete flight control and trim chain kits for each of the 150 different cable groups required to service all single engine aircraft from the model 120 through model 185 airplanes. It is a tedious and time consuming job to research the part manuals for all of the cables required for a complete aircraft. We carry stock on all of the cables in either Galvanized-Carbon Steel or Stainless Steel. All components are fully traceable, high quality, and proof tested.

Cable & Chain Kit CCKT206H-01S .....P/N 05-04605 .....**$3,391.00**
Cable & Chain Kit CCKT172175-13S.....P/N 05-04599 .....**$3,816.00**
Cable & Chain Kit CCKT206H-01G.....P/N 05-04604 .....**$3,296.00**
Cable & Chain Kit CCKT172175-13 .....P/N 05-04598 .....**$3,710.00**
Cable & Chain Kit CCKT182-13G .....P/N 05-04601 .....**$3,223.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

FAA-PMA APPROVED CONTROLS FOR CESSNAS THROTTLES – PROP – MIXTURE

Throttle, Propeller, Mixture, controls are available for most Cessna single engine aircraft from the Cessna 120 through the 210 series. These FAA-PMA controls are ultra-smooth, flexible with no stretch, arctic tested to -50°F, and tested to 250,000 cycles. They feature brass body assembly, teflon lined conduit, stainless steel ends, viton dust boots, aluminum friction lock, and a high quality phenolic knob (throttle, mixture, and prop).

Throttle Controls

Model	Serial No.	Model No.	Part No.	Price
120	8000 thru 11846	MC0411091-7	05-00272	**$653.00**
140	11847 thru 15075	MC0411091-7	05-00272	**$653.00**
140A	15200 thru 15724	MC0411091-7	05-00272	**$653.00**
150	17001 thru 59018	MC0411091-7	05-00272	**$653.00**
150 A, B, C, D, E ,F	15059019 thru 15064532	MCS1222-11S	05-00197	**$391.00**
F150F	F1500001 thru F1500067	MCS1222-11S	05-00197	**$391.00**
150G	15064533 thru 15067198	MCS1222-14S	05-00199	**$896.00**
F150G	F1500068 thru F1500219	MCS1222-14S	05-00199	**$896.00**
150 H, I, J, K, L, M	15067199 thru 15079405	MCC299505-0202S	05-00262	**$606.00**
A150 K, L, M	A1500001 thru A1500734	MCC299505-0202S	05-00262	**$606.00**
F150 H, J, K, L, M	F1500220 thru F1501428	MCC299505-0202S	05-00262	**$606.00**
FA150 K, L	FA1500001 thru FA1500120	MCC299505-0202	05-00262	**$606.00**
152*	15279406 thru 15282031	MC9863053-20	05-00248	**$1,034.00**
A152*	A1520735 thru A1520808	MC9863053-20	05-00248	**$1,034.00**
F152*	F15201429 thru F15201528	MC9863053-20	05-00248	**$1,034.00**
FA152*	FA1520337 thru FA1520347	MC9863053-20	05-00248	**$1,034.00**
152*	15282032 thru 15286033	MC9863056-1	05-00251	**$641.00**
A152*	A1520809 thru A1521049	MC9863056-1	05-00251	**$641.00**
F152*	F15201529 thru F15201929	MC9863056-1	05-00251	**$641.00**
FA152*	FA1520348 thru FA1520425	MC9863056-1	05-00251	**$641.00**
170, 170A, B*	18000 thru 25372	MC0411091-2	05-00269	**$639.00**
170B*	25373 thru 27169	MCS1222-2S	05-00206	**$561.00**
172, 172A, B, C, D	28000 thru 17250572	MCS1222-2S	05-00206	**$561.00**
F172D	F1720001 thru F1720018	MCS1222-2S	05-00206	**$561.00**
172 E, F, G, H	17250573 thru 17256512	MCS1222-15S	05-00201	**$678.00**
F172 E, F, G, H*	F1720019 thru F1720559	MCS1222-15S	05-00201	**$678.00**
172 I, K, L, M	17256513 thru 17267584	MCC299505-0102	05-00259	**$800.00**
F172 M*	F17201035 thru F1720151	MCC299505-0102	05-00259	**$800.00**
172 N*	17267585 thru 17271034	MC9863053-15	05-00246	**$1,201.00**
F172 N*	F17201515 thru F17201749	MC9863053-15	05-00246	**$1,201.00**
172 N*, P, Q	17271035 thru 17276673	MC9863056-3	05-00253	**$946.00**
F172 N*, P	F17201750 thru F17202254	MC9863056-3	05-00253	**$946.00**
172R	17280001 and On	MC565-549-021	05-00988	**$576.00**
172 S	172S8001 and On	MC565-549-021	05-00988	**$576.00**
175*	55001 thru 55703	MC0411091-27	05-00271	**$660.00**
177	17700001 thru 17701164	MCS1222-19	05-00203	**$1,033.00**
177 A, B*	17701165 thru 17702539	MCC299505-030	05-00264	**$482.00**
180 A, B, C, 9D, E, F, G	30000 thru 18051445	MCS1222-1S	05-00204	**$880.00**
180 H*	18051446 thru 18051875	MCS1222-13S	05-00198	**$336.00**
180 H*, J	18051876 thru 18052770	MCC299505-0201S	05-00261	**$355.00**
180 K*	18052771 thru 18053000	MC9863053-5	05-00249	**$1,098.00**
182 A, B, C, D	33000 thru 18253598	MCS1222-1S	05-00204	**$880.00**
182 E, F, G	18253599 thru 18255844	MCS1222-6S	05-04606	**$833.00**
182 H, J, K	thru 18258505	MCS1222-13S	05-00198	**$336.00**
182 L, M, N, P*	18258506 thru 18261425	MCC299505-0201S	05-00261	**$355.00**
182 P*	18261426 thru 18264835	MCC299505-0205	05-00263	**$443.00**
182 P*, Q*	18264836 thru 18266590	MC9863053-5	--	**--**
F182 P*, Q	F18200001 thru F18200094	MC9863053-5	--	**--**
182 S	18280001 thru 18280944	MC565-549-031	05-00989	**$862.00**
182 T	18280945 and On	MC565-549-031	05-00989	**$862.00**
T182 T	T18208001 and On	MC565-549-031	05-00989	**$862.00**
T182	18267716 thru 18268615	MC9863056-7	05-00257	**$980.00**
R182*	R18200001 thru R18200583	MC9863053-11	05-00244	**$1,292.00**
FR182*	FR18200001 thru FR18200020	MC9863053-11	05-00244	**$1,292.00**
R182*	R18200584 thru R18202041	MC9863056-6	05-00256	**$1,051.00**
FR182*	FR18200021 thru FR18200070	MC9863056-6	05-00256	**$1,051.00**
TR182	R18200584 thru R18202041	MC9863056-7	05-00257	**$980.00**
A185 E*	185-1301 thru 185-1599	MCC299505-0301	05-00264	**$482.00**
A185 E*	18501600 thru 18502007	MCC299505-0301	05-00264	**$482.00**
A185 E*	18502026 and 18502027	MCC299505-0301	05-00264	**$482.00**
A185 E*, F*	18502008 thru 18502025	MCC299505-0501	05-00265	**$1,208.00**
A185 E*, F*	18502028 thru 18503153	MCC299505-0501	05-00265	**$1,208.00**

FOR CARBURETOR HEAT CONTROLS FOR CESSNA 140-185, VISIT OUR WEBSITE AT WWW.AIRCRAFTSPRUCE.CA.

Model (cont'd)	Serial No.	Model No.	Part No.	Price
188A, A188B*	18800833 thru 18802745	MCS2149-1	05-00226	**$1,463.00**
A188 B*	18802746 thru 18803856	MCC299508-0301	05-00184	**$432.00**
205, 205 A	205-0001 thru 205-0577	MCS1219-1	05-00193	**$1,085.00**
206	206-0001 thru 206-0275	MCS1219-1	05-00193	**$1,085.00**
P206 C, D, E	P206-0420 thru P20600647	MCC299505-0101	05-00258	**$529.00**
U206 C, D, E, F	U206-0915 thru U20603521	MCC299505-0101	05-00258	**$529.00**
U206G*/ TU206G*	U20603522 thru U20604649	MC9863053-13	05-00245	**$979.00**
U206G*/ TU206G*	U20604650 thru U20606439	MC9863056-2	05-00252	**$552.00**
206H	20608001 and On	MC565-549-041	05-00990	**$787.00**
T206H	T20608001 and On	MC565-549-041	05-00990	**$787.00**
207, T207	20700007 thru 20700362	MCS1222-25A	05-00205	**$321.00**
207A*/ T207A*	20700363 thru 20700482	MC9863053-16	05-00247	**$1,477.00**
207A*/ T207A*	20700483 thru 20700788	MC9863056-4	05-00254	**$655.00**
210 B, C, D	21057841 thru 21058510	MCS1219-1	05-00193	**$1,085.00**
210 H, J, K, L	21058937 thru 21061573	MCC299505-0101	05-00258	**$529.00**
T210 H, J, K, L	T210-0308 thru 21061573	MCC299505-0101	05-00258	**$529.00**
210 M / T210 M	21061574 thru 21062954	MC9863053-13	05-00245	**$979.00**
210 N* / T210 N*	21062955 thru 21064897	MC9863056-2	05-00252	**$552.00**
P210 N*	P21000001 thru P21000150	MC9863053-13	05-00245	**$979.00**
P210 N*	P21000151 thru P21000834	MC9863056-2	05-00252	**$552.00**

***PARTIAL MODEL ELIGIBILITY**

Accessories

Cessna Rod End S1104-3..... P/N 06-00684 ..... **$48.99** Cessna Controls 1230-17..... P/N 06-00686..... **$172.75**

Propeller Controls				
Model	**Serial Number**	**Part No.**	**Our P/N**	**Price**
177B*	17701371 thru 17702539	C299506-0105	05-00177	**$432.00**
177RG*	177RG0001 thru 177RG1051	C299506-0105	05-00177	**$432.00**
F177RG*	F177RG0001 thru F177RG0160	C299506-0105	05-00177	**$432.00**
180A,B,C,D,E,F,G	30000 thru 18051445	S1223-4	05-00209	**$435.00**
180H*, J	18051876 thru 18052770	S1223-4	05-00209	**$329.00**
182,A,B,C,D	33000 thru 18253598	C299506-0103	05-00268	**$435.00**
182E,F,G	33000 thru 18253598	S1223-4	05-00209	**$435.00**
182E,F,G	18253599 thru 18255844	S1223-6S	05-00207	**$811.00**
182H,J,K	18255845 thru 18258505	S1223-3	05-00208	**$345.00**
182L,M,N,P	18258506 thru 18265175	S1223-6	05-00211	**$380.00**
FR182P	F18200001 thru F18200025	C299506-0102	05-00267	**$380.00**
180H, 185, 185A,B,C,D,E, A185E	18051446 thru 18051875, 185-0001 thru 185-0237, 185-0238 thru 185-1149, 185-0968-185-1300	MCS1223-5	05-11062	**$363.00**
182Q,R	18265176 thru 18268615	C299506-0102	05-00267	**$719.00**
A185E*	185-1301 thru 18502007	C299506-0103	05-00268	**$329.00**
A185E*	18502026 and 18502027	C299506-0103	05-00268	**$329.00**
A185E*,F	18502008 thru 18502025	C299506-0201	05-00178	**$1,059.00**
A185E*,F	18502028 thru 18503153	C299506-0201	05-00178	**$1,059.00**
A188B*	18800833 thru 18802745	S2149-2	05-00228	**$1,466.00**
A188B*	18802746 thru 18803856	C299508-0302	05-00187	**$695.00**
T188C	T18803297T thru T18803422T	C299508-0304	05-00191	**$1,053.00**
U206, U206A,B,	U206-0276 thru U206-0914	S1223-4	05-00209	**$435.00**
TU206A,B	U206-0276 thru U206-0914	S1223-4	05-00209	**$435.00**
P206, P206A,B	P2060001 thru P2060419	S1223-4	05-00209	**$435.00**
U206C,D,E,F	U2060915 thru U20603521	C299506-0101	05-00266	**$405.00**
TU206C,D,E,F	U2060915 thru U20603521	C299506-0101	05-00266	**$405.00**
P206C,D,E	P206-0420 thru P20600647	C299506-0101	05-00266	**$405.00**
U206G, TU206G	U20603522 thru U20607020	9862067-1	05-00241	**$1,363.00**
207A, T207A	20700363 thru 20700788	9862067-12	05-00242	**$917.00**
210E,F,G	21058511 thru 21058936	S1223-4	05-00209	**$435.00**
Mixture Controls				
Model	**Serial Number**	**Part No.**	**Our P/N**	**Price**
T210F,G	T2100001 thru T2100307	S1223-4	05-00209	**$435.00**
210H,J,K,L	21058937 thru 21061573	C299506-0101	05-00266	**$405.00**
T210H,J,K,L	T2100308 thru T2100454	C299506-0101	05-00266	**$405.00**
210M,N,T210M,N	21061574 thru 21064897	9862067-1	05-00241	**$1,363.00**
P210N	P21000001 thru P21000834	9862067-1	05-00241	**$1,363.00**
R172E,F,G,H,J,K	R1722000 thru R1723454	9862066-6	05-00239	**$1,244.00**
185A,B,C,D,E	185-0238 thru 185-1599	C299507-0201	05-00181	**$441.00**
A185E,F*	18501600 thru 18502007	C299507-0201	05-00181	**$441.00**
A185E,F*	18502026 and 18502027	C299507-0201	05-00181	**$441.00**
A185F*	18502008 thru 18502025	C299507-0401	05-00183	**$1,193.00**
A185F*	18502028 thru 18503153	C299507-0401	05-00183	**$1,193.00**
188,188A	1880001 thru 1880572	S1220-13	05-00195	**$1,220.00**
A188	18800573 thru 18800832	S1220-13	05-00195	**$1,220.00**
188B, A188B*	1880833 thru 18802745	C299507-0301	05-00182	**$1,880.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

Mixture Controls (cont'd)				
Model	**Serial Number**	**Part No.**	**Our P/N**	**Price**
A188B*	18802746 thru 18803856	C299508-0401	05-00189	**$737.00**
T188C	T18803297T thru T18803422T	C299508-0402	05-00191	**$1,053.00**
205, 205A	205-0001 thru 205-0577	S1220-3	05-00196	**$1,049.00**
206	206-0001 thru 206-0275	S1220-3	05-00196	**$1,049.00**
U206, U206A,B	U206-0276 thru U206-0914	S1220-3	05-00196	**$1,049.00**
P206, P206A,B	P206-0001 thru P206-0419	S1220-3	05-00196	**$1,049.00**
U206C,D,E,F	U206-0915 thru U20603521	C299507-0101	05-00179	**$496.00**
TU206C,D,E,F	U206-0915 thru U20603521	C299507-0101	05-00179	**$496.00**
P206C,D,E	P206-0420 thru P2060647	C299507-0101	05-00179	**$496.00**
U206G, TU206G	U20603522 thru U20607020	9862066-1	05-00237	**$1,306.00**
207, T207	20700001 thru 20700362	S1220-12A	05-00194	**$915.00**
207A, T207A	20700363 thru 20700788	9862066-5	05-00238	**$1,180.00**
210B,C,D,E,F,G	21057841 thru 21058936	S1220-3	05-00196	**$1,049.00**
T210F,G	T210-0001 thru T210-0307	S1220-3	05-00196	**$1,049.00**
210K,L, T210K,L	21059200 thru 21061573	C299507-0101	05-00179	**$496.00**
210M,N, T210M,N	21061574 thru 21064897	9862066-6	05-00239	**$1,244.00**
P210N	P21000001 thru P21000834	9862066-6	05-00239	**$1,244.00**
182S	18280001 - 18280944	C565-548-042	05-00994	**$964.00**
182T	18280945 - On	C565-548-042	05-00994	**$964.00**

CESSNA COWL FLAP CONTROLS

Cowl Flap controls are available for most Cessna single engine aircraft from the Cessna 120 through the 210 series. These FAA-PMA controls are ultra-smooth, flexible with no stretch, arctic tested to -50°F, and tested to 250,000 cycles. They feature brass body assembly, teflon lined conduit, stainless steel ends, viton dust boots, aluminum friction lock, and a high quality phenolic knob (throttle, mixture, and prop). Our P/Ns are interchangeable with Cessnas P/Ns; "AS" prefix denotes Aircraft Spruce!

Model	Serial Number	Location	Part No.	Our P/N	Price	Location	Part No.	Our P/N	Price
R172K	R1722000 thru R1723454	1 per A/C	S1391-26	05-00222	**$231.95**	----	----------	-----	------
FR172K	FR17200591 thru FR17200675	1 per A/C	S1391-26	05-00222	**$231.95**	----	----------	-----	------
177B	17701371 thru 17702752	Left	S1391-25	05-00221	**$286.95**	Right	S1391-26	05-00221	**$286.95**
177RG	177RG0001 thru 177RG1366	Left	S1391-27	05-00223	**$198.75**	Right	S1391-27	05-00223	**$198.75**
180D,E	18050912 thru 18051183	Left	S1245-1	05-00217	**$384.00**	Right	S1245-1	05-00217	**$384.00**
180F	18051184 thru 18051312	Left	S1245-1	05-00217	**$384.00**	Right	S1245-2	05-00218	**$242.95**
180G	18051313 thru 18051445	Left	S1245-3	05-00219	**$552.00**	Right	S1245-2	05-00218	**$242.95**
180H,J	18051446 thru 18052770	Left	S1572-1	-----	-----	Right	S1245-2	05-00218	**$242.95**
180K	18052771 thru 18053203	Left	9860074-3	05-00232	**$951.00**	Right	9860074-4	05-00233	**$819.00**
182D	18253008 thru 18253598	Left	S1245-1	05-00217	**$384.00**	Right	S1245-1	05-00217	**$384.00**
182E,F,G,H,J,K,L,M,N,P,Q,R	18253599 thru 18268615	Left	9860058-3	05-00229	**$1,165.00**	Right	9860058-4	05-00231	**$1,029.00**
T182	18267716 thru 18268541	Left	9860075-3	05-00234	**$906.00**	Right	9860075-4	05-00235	**$962.00**
R182/TR182	R18200002 thru R18202041	Left	9860075-3	05-00234	**$906.00**	Right	9860075-4	05-00235	**$962.00**
182S, 182T	18280001 and On	Left	580-703-024	05-01736	**$714.00**	Right	580-703-025	05-01737	**$624.00**
T182T	T18208001 and On	Left	580-703-024	05-01736	**$714.00**	Right	580-703-025	05-01737	**$624.00**
185, 185A,B,C	185-0001 thru 185-0776	Left	S1245-3	05-00219	**$552.00**	Right	S1245-2	05-00218	**$242.95**
185D,E, A185E,A185F*	185-0777 thru 18503153	Left	S1572-1	-----	-----	Right	S1245-2	05-00218	**$242.95**
A185F*	185603154 thru 18504448	Left	9860074-3	05-00232	**$951.00**	Right	9860074-4	05-00233	**$819.00**
205, 205A	205-0001 thru 205-0577	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
206, U206	206-0001 thru 206-0275	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
U206A,B,C,D,E,F*	U206-0276 thru U20602199	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
P206, P206A,B,C,D,E	P206-0001 thru P20600647	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
TP206A*	P206-0161 thru P206-0274	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
TU206A*	U206-0438 thru U206-0617	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
TP206A*,B,C,D,E	P206-0275 thru P20600647	Left	S1244-32	05-00215	**$533.00**	Right	S1244-31	05-00214	**$426.00**
TU206A*,B,C,D,E,F,G	U206-0618 thru U20607020	Left	S1244-32	05-00215	**$533.00**	Right	S1244-31	05-00214	**$426.00**
U206F*,G	U20602200 thru U20607020	Left	S1244-32	05-00215	**$533.00**	Right	S1244-31	05-00214	**$426.00**
206H	20608001 and On	Left	580-703-026	05-01738	**$715.00**	Right	580-703-027	05-01739	**$430.00**
T206H	T20608001 and On	Left	580-703-026	05-01738	**$715.00**	Right	580-703-027	05-01739	**$430.00**
207, 207A,T207,T207A	20700001 thru 20700788	Left	S1244-29	05-00212	**$282.95**	Right	S1244-30	05-00213	**$224.95**
210, 210A	57001 thru 21057840	Left	1213040-1	05-00224	**$783.00**	Right	1213040-2	05-00225	**$902.00**
210B,C,D,E,F,G,H,J,K*	21057841 thru 21059240	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
T210F	T210-0001 thru T210-0197	Left	S1244-5	05-00216	**$321.00**	Right	S1244-31	05-00214	**$426.00**
210K*,L,M,N	21059241 thru 21064897	Left	S1244-32	05-00215	**$533.00**	Right	S1244-31	05-00214	**$426.00**
T210G,H,J,K,L,M,N	T210-0198 thru 21064897	Left	S1244-32	05-00215	**$533.00**	Right	S1244-31	05-00214	**$426.00**
P210N*	P21000001 thru P21000834	Left	S1244-32	05-00215	**$533.00**	Right	S1244-31	05-00214	**$426.00**

***Denotes partial model eligibility**

UNIVERSAL PUSH TO UNLOCK CONTROLS

Universal Push to Unlock Controls MC6150/MC6250 - Perfect for home built or custom projects! Quality stainless steel construction • Teflon lined for smooth operation • Heavy duty strength and long life • 3" maximum travel and 15lb. locking force • Anodized aluminum knobs in red, black, blue or clear • Custom laser marking available
MC6150 Series: - • Solid wire end • Available in 4, 6, 8, 10 and 12 foot lengths • Maybe cut to length.
MC6250 Series: - • 10-32 threaded end • Available in 4, 6, 8, 10 and 12 foot lengths

MC6150 CONTROLS (SOLID WIRE END)

Description	Part No.	Price
Black Knob, 4Ft.	05-04151	**$137.75**
Black Knob, 6Ft.	05-04152	**$137.75**
Black Knob, 8Ft.	05-04153	**$162.75**
Black Knob, 10Ft.	05-04154	**$176.75**
Black Knob, 12Ft.	05-04155	**$170.99**
Clear Knob, 4Ft.	05-04490	**$147.75**
Clear Knob, 6Ft.	05-04491	**$155.75**
Clear Knob, 8Ft.	05-04492	**$164.75**
Clear Knob, 10Ft.	05-04493	**$190.75**
Clear Knob, 12Ft.	05-04494	**$176.75**
Blue Knob, 4Ft.	05-04495	**$141.80**
Blue Knob, 6Ft.	05-04496	**$155.75**
Blue Knob, 8Ft.	05-04497	**$176.75**
Blue Knob, 10Ft.	05-04498	**$219.95**
Blue Knob, 12Ft.	05-04499	**$181.85**
Red Knob, 4Ft.	05-04156	**$137.75**
Red Knob, 6Ft.	05-04157	**$139.75**
Red Knob, 8Ft.	05-04158	**$162.75**
Red Knob, 10Ft.	05-04159	**$184.75**
Red Knob, 12Ft.	05-04160	**$168.75**

MC6250 CONTROLS (THREADED END)

Description	Part No.	Price
Black Knob, 4Ft.	05-04501	**$190.75**
Black Knob, 5Ft.	05-04502	**$196.99**
Black Knob, 6Ft.	05-04503	**$184.75**
Black Knob, 7Ft.	05-04504	**$220.95**
Black Knob, 8Ft.	05-04505	**$224.95**
Black Knob, 9Ft.	05-04506	**$230.95**
Black Knob, 10Ft.	05-04507	**$210.95**
Clear Knob, 4Ft.	05-04508	**$193.75**
Clear Knob, 5Ft.	05-04509	**$196.99**
Clear Knob, 6Ft.	05-04510	**$209.95**
Clear Knob, 7Ft.	05-04511	**$220.95**
Clear Knob, 8Ft.	05-04512	**$224.95**
Clear Knob, 9Ft.	05-04513	**$230.95**
Clear Knob, 10Ft.	05-04514	**$228.95**
Blue Knob, 4Ft.	05-04515	**$179.75**
Blue Knob, 5ft	05-04516	**$196.99**
Blue Knob, 6ft.	05-04517	**$216.95**
Blue Knob, 7Ft.	05-04518	**$196.99**
Blue Knob, 8Ft.	05-04519	**$225.95**
Blue Knob, 9Ft.	05-04522	**$234.95**
Blue Knob, 10ft.	05-04523	**$239.95**
Red Knob, 4Ft.	05-04524	**$168.75**
Red Knob, 5Ft.	05-04525	**$186.75**
Red Knob, 6Ft.	05-04526	**$202.95**
Red Knob, 7Ft.	05-04527	**$221.95**
Red Knob, 8Ft.	05-04528	**$208.95**
Red Knob, 9Ft.	05-04529	**$230.95**
Red Knob, 10Ft.	05-04530	**$205.95**

WIRE CLAMP BOLTS FOR CESSNAS

Wire clamps for solid wire controls for Cessna Aircraft. Wire clamps are used on solid wire controls including cabin air, mixture control, strainer drain, cabin heat, defrost, flap and many others.
FAA-PMA approved for Cessna 120 through the 425 series aircraft. Unique design to reduce wire stress. Manufactured from heat treated stainless steel for better wear and corrosion resistance. ***Please visit our website for part specifications and application information.**

Manufacturer Part No.	Part No.	Price
MCS2323-1	05-04583	**$41.50**
MCS2323-2	05-04584	**$39.50**
MCS2323-3	05-04585	**$39.50**
MCS2323-4	05-04586	**$41.50**
MCS2323-5	05-04587	**$29.70**
MCS2323-6	05-04588	**$38.50**
MCS2323-7	05-04589	**$43.65**
MCS2323-8	05-04590	**$50.50**
MCS2323-9	05-04591	**$50.50**
MCS2323-10	05-04592	**$41.50**
MCS2323-11	05-04593	**$40.75**
MCS2323-12	05-04594	**$40.75**
MCS2323-13	05-04595	**$40.75**
MCS2323-14	05-04596	**$27.50**
MCS2323-19	05-04597	**$21.95**

MC1660300-30 AILERON DIRECT CABLE

This Aileron Direct cables eligible for installation in Cessna 188A and A188A aircraft, serial range 18800573 thru 18800707. This cable has also been added to the cable kit CCKT188-04 188A, A188A 1970-1971 Serial Number 18800573-18800707 .....P/N 05-04614 ..... **$196.99**

MC600 SERIES UNIVERSAL SOLID WIRE VERNIER MIXTURE CONTROL

FAA-PMA approved for use as a minor alteration part on the following aircraft: • Cessna • Raytheon • Maule • Cessna/Reims • Mooney • Univair (Stinson) • Piper Call for Specific Models - Easily field approved for other applications - Trim to exact length.....P/N 05-01254 ..... **$336.00**

THROTTLE CONTROL

Fittings and components are made from anodized aluminum, stainless steel, and brass. All critical swage connections are metal to metal for continued dependability. Vernier locking devices are precision formed and heat treated in critical wear areas. .....P/N 05-02209 ..... **$777.00**

CESSNA/PIPER VERNIER ASSIST CONTROLS

Vernier-Assist for non-certified aircraft and an extended line of FAA-PMA approved controls, the breakthrough design is now approved on throttle controls for Cessna, Piper, Beechcraft, Grumman, and Bellanca.
These light weight controls use a patented roller action and do not use a positive lock thread engagement. Coarse adjustments are made by pushing the knob inwards or pulling the knob outwards. Fine adjustments are made by rotating the knob clockwise or counterclockwise. For extreme conduit routing or heavy carburetor load installation, slight inward or outward assist pressure could be required during rotation.

Part Numbering Note:
Part numbers for Vernier-Assist™ are the same as McFarlane's original push-pull FAA-PMA approved controls, except the "MC" prefix changes to "MCVA".

OEM PN	Aircraft	Part No.	Price
MCVA565-549-021	172: R, S	05-26515	**$679.00**
MCVAC299505-0102	172: I, K, L, M, F172M	05-26516	**$846.00**
MCVA9863056-3	172: N, P, Q, F172N, F172P	05-26517	**$962.00**
MCVA9863056-1	152: A152, F152, FA152	05-26520	**$708.00**
MCVAC299505-0202S	150: H, J, K, L, M A150: K, L, M F150: H, J, K, L, M FA150: K, L FRA150: L, M	05-26521	**$673.00**
MCVAC299505-0101	P206: C,D, E TP206: C, D, E TU206: C, D, E, F U206: C, D, E, F 210: H, J, K, L T210: H, J, K, L	05-26522	**$584.00**
MCVA9863056-2	206: TU206G, U206G 210: N, P210N, T210N	05-26523	**$678.00**
MCVAS1222-1S	180: A, B, C, D, E, F, G 182: A, B, C, D	05-26524	**$888.00**
MCVA12693-04	PA-22 PA-28: -140, -150, -160, -180, -235	05-26525	**$889.00**
MCVA9863053-20	152: A152, F152, FA152	05-26526	**$942.00**
MCVA9863053-15	172: N, F172N	05-26527	**$1,081.00**
MCVAC299505-0205	182: 182P	05-26528	**$496.00**
MCVAC299505-0201S	180: H, J 182: L, M, N, P	05-26529	**$430.00**
MCVA565-549-031	182: S, T, T182T	05-26530	**$1,073.00**
MCVAS1222-2S	170 B 172: A, B, C, D, F172D	05-26531	**$576.00**
MCVA9863055-9	180K 182, R, F182Q	05-26532	**$1,142.00**
MCVAS1222-15S	172: E, F(T-41A), G, H(T-41A) F172: E, F, G, H	05-26533	**$713.00**
MCVAS1222-6S	182: E, F, G	05-26534	**$943.00**
MCVAC299505-0501	185 - A185: E, F	05-26535	**$1,157.00**
MCVA507005-3	AA-5: AA-5B	05-26536	**$808.00**
MCVA9863053-13	206: TU206G, U206G 210: P210N, T210M	05-26537	**$975.00**
MCVA9863056-8	172: 172RG	05-26540	**$771.00**
MCVAC299505-0301	177: A, B 185: A185E	05-26541	**$565.00**
MCVAS1222-11S	150: A, B, C, D, E, F, F150F	05-26542	**$448.00**
MCVAS1222-13S	180: H 182: J, K	05-26543	**$426.00**
MCVA9863053-5	180: K 182: Q, F182P, F182Q	05-26544	**$1,053.00**
MCVAS1222-10A	206: P206- A, B, TP206- A, B, TU206- A, B, U206- A, B 210: E, F, G, T210- F, G	05-26545	**$1,031.00**
MCVA9863056-5	185: A185F	05-26546	**$920.00**

OEM PN	Aircraft	Part No.	Price
MCVAC299505-0401	177: RG, F177RG	05-26547	**$891.00**
MCVA0411091-7	120, 140 140: A 150	05-26548	**$737.00**
MCVA565-549-041	206: H, T206H	05-26549	**$902.00**
MCVAS1219-1	205: 210-5(205),210-5A(205A) 206 210: B, C, D	05-26550	**$1,082.00**
MCVA9863056-6	182: FR182, R182	05-26551	**$1,045.00**
MCVA507005-2	AA-5: AA-5A	05-26552	**$808.00**
MCVA9863056-7	182: T182, TR182	05-26553	**$1,015.00**
MCVAS1222-14S	150: G, F150G	05-26554	**$871.00**
MCVA9863053-10	172: FR172K, R172K	05-26555	**$1,103.00**
MCVA0411091-2	170: A, B	05-26556	**$815.00**
MCVA9863053-17	185: A185F	05-26557	**$1,045.00**
MCVA9863056-4	207: A, T207A	05-26558	**$726.00**
MCVAS1222-19	177	05-26559	**$997.00**
MCVA69530-02	PA-32: PA-32-300	05-26560	**$744.00**
MCVA9863055-10	FR172K, R172K	05-26561	**$1,194.00**
MCVA1213228-2	210: 210A	05-26562	**$689.00**
MCVAS1294-1	185: A, B, C, D, E, A185E	05-26563	**$377.00**
MCVAS1222-25A	207: T207	05-26564	**$409.00**
MCVAS1222-4	172: FP172, P172D 175: A, B, C	05-26565	**$326.00**
MCVA9863053-10	172: FR172K, R172K	05-26566	**$962.00**
MCVA9863053-16	207: A, T207A	05-26567	**$1,231.00**
MCVAC299505-0203S	172: F172- H, K, L, M	05-26568	**$838.00**
MCVAC299505-0204S	172: FR172- F, G, H, J	05-26569	**$1,102.00**
MCVA0411091-4	190 195A, B, 195 (LC-126A, B, C)	05-26570	**$1,222.00**
MCVAC299513-0101	210: R, P210R, T210R	05-26571	**$947.00**
MCVA0411091-27	175	05-26572	**$765.00**
MCVA455-139	PA-20, PA-22	05-26573	**$678.00**
MCVA507005-1	AA-1: A, B, C	05-26574	**$777.00**
MCVA565-549-013	177: B	05-26575	**$623.00**
MCVAS191783-18	17-30: A, 17-31A, 17-31ATC	05-26576	**$856.00**
MCVA0411091-30	175	05-26577	**$831.00**
MCVA1213228-3	185	05-26578	**$443.00**

CESSNA FLAP SKINS – AILERON SKINS

- Better and costs less!
- No pre-drilled holes to misalign
- Precisely formed and trimmed
- Plastic coated on both sides for better protection during handling (remove before installation)
- Direct replacement - No STC required

AP

FLAP SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-FLP1	Flap skin kit	05-04164	**$671.00**
1 ea	MC0426901-10	Flap Upper RH	05-03371	**$133.75**
1 ea	MC0426901-11	Flap Upper LH	05-03372	**$191.75**
1 ea	MC0426901-6	Flap Lower LH	05-03369	**$150.75**
1 ea	MC0426901-7	Flap Lower RH	05-03370	**$166.75**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP2	Flap skin kit	05-04169	**$724.00**
1 ea	MC0523901-4	Flap Upper LH	05-04113	**$150.75**
1 ea	MC0523901-5	Flap Upper RH	05-04114	**$201.95**
1 ea	MC0523901-6	Flap Lower LH	05-04115	**$256.95**
1 ea	MC0523901-7	Flap Lower RH	05-04116	**$259.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP3	Flap skin kit	05-04170	**$875.00**
2 ea	MC0523901-201	Flap Upper LH RH	05-04125	**$274.95**
1 ea	MC0523901-6	Flap Upper LH	05-04115	**$256.95**
1 ea	MC0523901-7	Flap Lower RH	05-04116	**$259.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP4	Flap skin kit	05-04171	**$668.00**
1 ea	MC0523901-21	Flap Upper LH	05-04119	**$201.95**
1 ea	MC0523901-22	Flap Upper RH	05-04120	**$201.95**
1 ea	MC0523901-19	Flap Lower LH	05-04117	**$168.75**
1 ea	MC0523901-20	Flap Lower RH	05-04118	**$209.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP5	Flap skin kit	05-04172	**$972.00**
1 ea	MC0523901-25	Flap Upper LH	05-04121	**$289.95**
1 ea	MC0523901-26	Flap Upper RH	05-04122	**$280.95**
1 ea	MC0523901-27	Flap Lower LH	05-04123	**$318.00**
1 ea	MC0523901-28	Flap Lower RH	05-04124	**$264.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP6	Flap skin kit	05-04173	**$1,902.00**
1 ea	MC0523901-25	Flap Upper Inbd LH	05-04121	**$289.95**
1 ea	MC1220100-20	Flap Upper Inbd RH	05-04135	**$271.95**
1 ea	MC1220100-5	Flap Upper Otbd LH	05-04132	**$238.95**
1 ea	MC1220100-6	Flap Upper Otbd RH	05-04133	**$459.00**
1 ea	MC1220100-27	Flap Lower Inbd LH	05-04123	**$318.00**
1 ea	MC1220100-18	Flap Lower Otbd RH	05-04134	**$238.95**
1 ea	MC1220100-3	Flap Lower Otbd LH	05-04130	**$248.95**
1 ea	MC1220100-4	Flap Lower Otbd RH	05-04131	**$247.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP7	Flap skin kit	05-04174	**$1,948.00**
1 ea	MC0523901-25	Flap Upper Inbd LH	05-04121	**$289.95**
1 ea	MC1220100-26	Flap Upper Inbd RH	05-04122	**$280.95**
1 ea	MC1220100-5	Flap Upper Otbd LH	05-04132	**$238.95**
1 ea	MC1220100-6	Flap Upper Otbd RH	05-04133	**$459.00**
1 ea	MC1220100-27	Flap Lower Inbd LH	05-04123	**$318.00**
1 ea	MC1220100-28	Flap Lower Inbd RH	05-04124	**$264.95**

FLAP SKIN KIT COMPONENTS CONT.

Qty	MFG P/N	Description	Part No.	Price
1 ea	MC1220100-3	Flap Lower Otbd LH	05-04130	**$248.95**
1 ea	MC1220100-4	Flap Lower Otbd RH	05-04131	**$247.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP8	Flap skin kit	05-04175	**$1,695.00**
1 ea	MC1220100-33	Flap Upper Inbd LH	05-04133	**$459.00**
1 ea	MC1220100-34	Flap Upper Inbd RH	05-04134	**$238.95**
1 ea	MC1220100-5	Flap Upper Otbd LH	05-04132	**$238.95**
1 ea	MC1220100-6	Flap Upper Otbd RH	05-04133	**$459.00**
1 ea	MC1220100-35	Flap Lower Inbd LH	05-04138	**$291.95**
1 ea	MC1220100-36	Flap Lower Inbd RH	05-04139	**$101.80**
1 ea	MC1220100-3	Flap Lower Otbd LH	05-04130	**$248.95**
1 ea	MC1220100-4	Flap Lower Otbd RH	05-04131	**$247.95**

AILERON SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-AIL1	Skin Kit	05-04140	**$1,923.00**
1 ea	MC0523800-6	Aileron Upper Inbd LH	05-03373	**$187.75**
1 ea	MC0523800-7	Aileron Upper Inbd RH	05-03374	**$187.75**
1 ea	MC0523800-8	Aileron Upper Otbd LH	05-03375	**$209.95**
1 ea	MC0523800-9	Aileron Upper Otbd RH	05-03376	**$201.95**
1 ea	MC0523800-10	Aileron Lower Inbd LH	05-03377	**$252.95**
1 ea	MC0523800-11	Aileron Lower Inbd RH	05-03378	**$248.95**
1 ea	MC0523800-12	Aileron Lower Otbd LH	05-03379	**$244.95**
1 ea	MC0523800-13	Aileron Lower Otbd RH	05-03380	**$244.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-AIL2	Skin Kit	05-04141	**$2,109.00**
1 ea	MC1624001-5	Aileron Upper Inbd LH	05-04145	**$249.95**
1 ea	MC1624001-6	Aileron Upper Inbd RH	05-04146	**$291.95**
1 ea	MC1624001-9	Aileron Upper Otbd LH	05-04149	**$341.00**
1 ea	MC1624001-10	Aileron Upper Otbd RH	05-04150	**$224.95**
1 ea	MC1624001-3	Aileron Lower Inbd LH	05-04143	**$282.95**
1 ea	MC1624001-4	Aileron Lower Inbd RH	05-04144	**$291.95**
1 ea	MC1624001-7	Aileron Lower Otbd LH	05-04147	**$341.00**
1 ea	MC1624001-8	Aileron Lower Otbd RH	05-04148	**$341.00**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-AIL3	Skin Kit	05-04142	**$1,023.00**
1 ea	MC1220085-11	Aileron Upper LH	05-04126	**$245.95**
1 ea	MC1220085-12	Aileron Upper RH	05-04127	**$303.00**
1 ea	MC1220085-13	Aileron Upper LH	05-04128	**$303.00**
1 ea	MC1220085-14	Aileron Upper RH	05-04129	**$299.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-AIL4	Skin Kit	05-13255	**$1,211.00**
2 ea	MC0424000-10	Skin, Aileron	05-13234	**$310.00**
2 ea	MC0424000-20	Skin, Aileron	05-13235	**$310.00**

CESSNA 206/207/210 SKIN FLAP LOWER OUTBOARD

• More precise corrugation spacing and shape • No pre-drilled holes to misalign • Precisely formed and CNC cut to shape to match OEM skins • Direct replacement - No STC required

Left Hand.....P/N 05-04130 .....**$248.95**
Right Hand.....P/N 05-04131 .....**$247.95**

See website for eligibility list.

CESSNA FLAP – ELEVATOR – RUDDER SKINS

More precise corrugation spacing and shape
No pre-drilled holes to misalign
Precisely formed and CNC cut to shape to match OEM skins
Direct replacement - No STC required

FLAP SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-FLP9	Flap Skin Kit	05-13258	**$928.00**
2 ea	MC0425000-10	Skin, Flap Upper	05-13244	**$235.95**
2 ea	MC0425000-20	Skin, Flap Lower	05-13245	**$234.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP10	Flap Skin Kit	05-13259	**$918.00**
2 ea	MC0426900-2	Skin, Flap Upper	05-13246	**$234.95**
2 ea	MC0426900-4	Skin, Flap Lower	05-13247	**$231.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP11	Flap Skin Kit	05-13260	**$979.00**
2 ea	MC0525000-10	Skin, Flap Upper	05-13246	**$234.95**
2 ea	MC0525000-10	Skin, Flap Lower	05-13247	**$231.95**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-FLP12	Flap Skin Kit	05-13261	**$947.00**
2 ea	MC0523900-10	Skin, Flap Upper	05-13248	**$300.95**
2 ea	MC0523900-20	Skin, Flap Lower	05-13250	**$241.95**

ELEVATOR SKIN KIT COMPONENTS

Qty	MFG P/N	Description	Part No.	Price
KIT	SKN-KT-ELEV8	Elevator Skin Kit	05-13256	**$1,096.00**
1 ea	MC0434134-4	Skin, Elevator, Lower, RH	05-13239	**$190.75**
1 ea	MC0434135-10	Skin, Elevator Tab, Upper	05-13240	**$165.75**
1 ea	MC0434135-11	Skin, Elevator Tab, Lower	05-13241	**$165.75**
1 ea	MC0434140-2	Skin, Elevator, Upper, RH	05-13237	**$190.75**
1 ea	MC0434141-1	Skin, Elevator, Upper, LH	05-13236	**$210.95**
1 ea	MC0434142-3	Skin, Elevator, Lower, RH	05-13238	**$198.75**
Qty	**MFG P/N**	**Description**	**Part No.**	**Price**
KIT	SKN-KT-ELEV9	Elevator Skin Kit	05-13257	**$1,096.00**
1 ea	MC0434134-4	Skin, Elevator, Lower, RH	05-13239	**$190.75**
1 ea	MC0434135-15	Skin, Elevator Tab, Upper	05-13242	**$169.75**
1 ea	MC0434135-16	Skin, Elevator Tab, Lower	05-13243	**$169.75**
1 ea	MC0434140-2	Skin, Elevator, Upper, RH	05-13237	**$190.75**
1 ea	MC0434141-1	Skin, Elevator, Upper, LH	05-13236	**$210.95**
1 ea	MC0434142-3	Skin, Elevator, Lower, RH	05-13238	**$198.75**

RUDDER SKIN KIT COMPONENTS

Qty	MFG Part No.	Description	Part No.	Price
KIT	SKN-KT-RUD6	Rudder Skin Kit	05-13262	**$512.00**
1 ea	MC0433000-30	Skin, Rudder, LH	05-13252	**$235.95**
1 ea	MC0433000-40	Skin, Rudder, RH	05-13253	**$208.95**
1 ea	MC0433127	Skin, Rudder tab	05-13254	**$52.75**

CESSNA RUDDER TIP

FAA-PMA replacement parts from Knots 2U are made from the highest quality hand laid fiberglass. This provides for superior strength, reduced weight, and long life. The latest technology resins are used to prevent warping and shrinkage that can happen with other fiberglass. Advanced tooling and pattern techniques assure a superior fit.

P/N 05-11965 .....**$198.75**

CESSNA TAILCONE FAIRING

Fairing, Tailcone (Cable Covers), LH or RH. Small triangle at the front of the dorsal fin. White ABS plastic. Parts are trimmed for easy installation. Replaces Cessna part number 0530011-2.

P/N 05-11973 .....**$45.50**

CESSNA DORSAL FIN FAIRING TIP

Dorsal Fin Faring Tip 28-16. Replaces Cessna part number 0531020-1. Small triangle at the front of the dorsal fin. White ABS plastic. Parts are trimmed for easy installation. Replaces Cessna part number 0531020-1 .....P/N 05-11972 .....**$58.90**

CESSNA STRUT FAIRING KIT

Strut Fairing Kit for Cessna. The tie-down bolt projects through the upper strut fairings. White ABS plastic. Parts are trimmed for easy installation. Replaces Cessna part numbers 0522150-1, 0522150-2, 0523047-1 and 0523047-2.

P/N 05-11967.....**$519.00**

CESSNA LANDING GEAR FAIRING KIT

Landing Gear Fairing Kit for Cessna Replacement part numbers 1741005-239 and 1741005-240.

P/N 05-11966.....**$391.00**

VISIT WWW.AIRCRAFTSPRUCE.CA FOR AIRCRAFT ELIGIBILITY CHART

AP

CESSNA STEERING RODS

These Cessna Steering Rods are better than the originals. Replace old, weak steering rods with these stainless steel, FAA-PMA approved steering rods and save up to $100 each.

Cessna Series	Serial Number	Part Number	Replaces Cessna P/N	Price Each
150	ALL	05-00273	0543022-3; L	**$798.00**
152	ALL	05-00274	0543022-4; R	**$783.00**
172,172A	28000 to 17247746	05-00275	0543022-1; L	**$711.00**
		05-00276	0543022-2; R	**$711.00**
172B,C	17247747 to 17249544	05-00589	0743008-1; L	**$1,169.00**
		05-00590	0743008-2; R	**$1,169.00**
172D, E, F, G, H, I, K, L. M, R172K	17247747 to 17249544 R1722000 to R1723454	05-00275	0543022-1; L	**$711.00**
F172D, E, F, G, H, K, L, M, N, P FP172 FR172E, F, G, H, J, K	F1720001 to F17202254 FP1720001 to FP1720003 FR17200001 to FP17200675	05-00276	0543022-2; R	**$711.00**
175,175A/B/C	55001 to 17557119	05-00589	0743008-1; L	**$1,169.00**
		05-00590	0743008-2; R	**$1,169.00**
182,182A/B/C/D	33000 to 53007 18253008 to 18253598	05-00589	0743008-1; L	**$1,169.00**
		05-00590	0743008-2; R	**$1,169.00**

CESSNA STEERING ROD BOOTS

Keep the exhaust and cold out of the cabin with these Kevlar/Fiberglass FAA/PMA approved Steering Rod Boots. These will last much longer & are less expensive than original Cessna boots.

FAA/PMA approved Steering Rod Boot application chart for Cessna Model Series 150, 152, 172, 175, and 182 Aircraft.

Model	Serial No.	Part No.	Price
150 150A-M A150K-M F150F-M FA150K-L FRA150L-M	17001-59018 15059019-15079405 A1500001-A1500734 F1500001-F15001428 FA1500001-F1500120 FRA1500121-FRA1500336	05-00277	**$147.75**
152 A152 F152 FA152	15279406-15286033 A1520735-A1521049 F15201429-F15201980 FA1520337-FA1520425	05-00277	**$147.75**
172 172A-P F172D-P FP172 FR172E-K	28000-46754 46755-17276673 F1720001-F17202254 FP1720001-FP1720003 FR17200001-FR17200675	05-00279	**$161.75**
175 175A-C	55001 – 56238 56239 – 17557119	05-00279	**$161.75**
182 182A-D	33000-53007 18253008-18253598	05-00279	**$161.75**

INTAKE HEAT SHIELD DEFLECTOR

This part replaces Cessna part number 0750121. This intake Heat Shield Deflector is vibration dampened to prevent cracking! It is made of polished stainless steel for better heat control. FAA approved.

P/N 05-02361 .....**$318.00**

Eligibility List	
Aircraft Models	**Serial Numbers**
175*, A,B,C	56083 thru 17557118
P172	P17257120 thru P17257188
180, A,B,C,D,E,F,G,H,J,K	30000 thru 18053203
182,A,B,C,D,E,F,G,H,J,K,L,M,N,P,Q,R	33000 thru 18268615
F182P,Q	F18200001 thru F18200169
A182J,K,L,M,N	A182-0001 thru A182-0148
T182	18267716 thru 18268615
185,A,B,C,D,E/A185E,F	185-0001 thru 18504448
185,A,B/A188,A,B	188-0001 thru 18803968T
T188C	T18803297T thru T18803968T
205,A	205-0001 thru 205-0577
206	206-0001thru 206-0275
U206,A,B,C,D,E,F,G	U206-0276 thru U20607020
P206,A,B,C,D,E,/TP206A,B,C,D,E	P206-0001 thru P20600647
TU206A,B,C,D,E,F,G	U206-0438 thru U20607020
207,A/T207,A	20700001 thru20700788
210,A,B,C,D,E,F,G,H,J,K,L,M,N,R/ T210K,LM,N,R	57001 thru 21065009
P210N,R	P21000001 thru P21000874
T210G,H,J	T210-0198 thru T210-0454

Our P/N's are interchangeable with Cessna's P/N's; "AS" prefix denotes Aircraft Spruce! Call our parts specialists at Aircraft Spruce for part number assistance.

CESSNA TORQUE LINK SHIM KIT

Brass Nose Gear Torque Link Shim Kit for Cessna Aircraft **Features**: • Only McFarlane has three shim sizes for a precision fit • Eliminates undampened torque link motion to prevent shimmy .....P/N 05-15394 .....**$53.75**

CESSNA FUEL SCREEN STANDPIPE

This FAA-PMA approved stainless steel Cessna Fuel Screen Standpipe is the last one you will need to buy. Improved design eliminates corrosion pits and stripped threads. 1963 and on.

P/N AS0756011-1 ..**$318.00**

CESSNA FUEL QUANTITY TRANSMITTERS

Saves hundreds of dollars in labor and kits and eliminates replacement of fuel quantity gages and wiring when not required. Engineered to be compatible with the original fuel quantity gage and wiring which uses time proven technology and reliability. Made from dupont viton, offering flexibility and fuel resistance at all temperature extremes.

Part No.	Description	Price Ea.
AS0426517-1	Fuel Transmitter	**$619.00**
AS0523557-1	Fuel Transmitter	**$601.00**
AS0726110-1	Fuel Transmitter	**$633.00**
ASS1588-1	Gasket (Viton Fuel Trans.)	**$68.80**
ASS1588-2	Gasket (Viton Fuel Trans.)	**$43.50**
ASS35010R10	Screw (5 Needed) Sold each	**$8.99**

CESSNA / PIPER FUEL QUANTITY TRANSMITTER KITS

Mft. Part No.	Kit Contents	Part No.	Price
FQT-KT-1	1 each Transmitter (MC0426517-1), 1 each Cover Gasket (C0523619-1), each Gasket (MCS1588-1, 5 each Screw Seal (MCS35010R10)	05-04109	**$737.00**
FQT-KT-2	1 each Transmitter (MC0523557-1), 1 each Cover Gasket (MC0523619-1), 1 each Gasket (MCS1588-1), 5 each Screw Seal (MCS35010R10)	05-04110	**$707.00**
FQTP-KT-1	1 each Transmitter (MC68101-02), 1 each Gasket (MC462-021), 5 each Screw/seal assemblies (MC1802)	05-04874	**$642.00**
FQTP-KT-2	1 each Transmitter (MC68101-02), 1 each Gasket (MC461-931), 5 each Screw/seal assemblies (MC1802)	05-04875	**$649.00**
FQT-KT-3	1 each Transmitter, 1 each Gasket (C0726110-1), 1 each Gasket (MCS1588-2), 25 each Screw Machine, 10-32 x 0.625	05-12944	**$702.00**
FQT-KT-4	1 each Transmitter (MCC668002-0201), 1 each Gasket (MCS1588-1), 1 each Gasket (MCS1588-2), 25 each Screw Machine, 10-32 x 0.625	05-12945	**$746.00**
FQT-KT-5	1 each Transmitter (MC0726110-1), 2 each Gasket (MCS1588-2), 25 each Screw Machine 10-32 x 0.625 (MS35207-264)	05-12946	**$608.00**
FQT-KT-6	1 each Transmitter (MC0726110-1), 1 each Gasket (MCS1588-1), 25 each Screw Machine 10-32 x 0.625 (MS35207-264)	05-12947	**$679.00**

FUEL SELECTOR PLATE FOR CESSNAS

Before

After

This new fuel selector plate is billet machined and anodized, with the text engraved on the plate. It is an efficient one piece design which is easy to install & factory guaranteed. FAA-PMA approved.

Cessna 172 - 37 Gals. .....P/N 05-00227 .....**$116.99**
Cessna 170 - 37 Gals. .....P/N 05-00899 .....**$117.75**
Cessna 172 - 36 Gals. .....P/N 05-00901 .....**$116.99**
Cessna 180 - 55 Gals. .....P/N 05-00902 .....**$116.99**
Cessna 180 - 60 Gals. .....P/N 05-00903 .....**$116.99**
Cessna 180 - 79 Gals. .....P/N 05-00904 .....**$116.99**
Cessna 172 - 84 Gals. .....P/N 05-00905 .....**$116.99**
Cessna 182 - 55 Gals. .....P/N 05-00906 .....**$115.75**

P/N 05-04427

CESSNA NOSE GEAR TORQUE LINK REPAIR KITS

This convenient kit includes all commonly replaced torque link parts. • FAA approved and certified standard hardware • Fits most single engine Cessna aircraft Please visit our website for kit components.

TL-KT-1 ...P/N 05-04427 ..**$275.95** TL-KT-2... P/N 05-04619...**$395.00**
TL-KT-4 ...P/N 05-04620 ..**$379.00** TL-KT-5... P/N 05-04621...**$379.00**
TL-KT-6 ...P/N 05-04622 ..**$336.00** TL-KT-7... P/N 05-04623...**$356.00**

P/N 05-04298

CESSNA FUEL SELECTOR VALVES

P/N 05-04299

Description	Model	Part No.	Price
Lt/Rt/Off FAA PMA C120 & C140	SHA200F202-120	05-04298	**$1,594.00**
Lt/Rt/Both/off FAA PMA C120 & C140	SHA200F204-140	05-04299	**$1,345.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

CESSNA SEAT RAILS, ROLLERS, WASHERS, & BUSHINGS

These FAA-PMA replacement seat parts were developed to assist in complying with the parts replacement requirements of A.D. 87-20-03. This A.D. requires the periodic inspection and replacement of seat components of the entire Cessna light aircraft fleet. Our Parts are direct replacements for the wear related seat components. These seat parts are superior to the O.E.M. parts in many ways. Our rollers are fabricated from molydisulfide filled nylons for improved strength and self lubrication. All rollers are fully machined from extruded stock for finer surface finishes and higher strength. Our wear washers are tougher with far better wear and aging resistance. Seat rails were carefully engineered with small improvements for added strength, longer life, and easier installation without any sacrifice of full interchangeability with the O.E.M. parts.

SEAT RAILS **ROLLERS**

Description	Part No.	Price Ea.	Description	Part No.	Price Ea.
AS0410219-1	05-00327	**$339.00**	AS0711693-4	05-00380	**$435.00**
AS0410219-2	05-00328	**$599.00**	AS0711693-6	05-00381	**$753.00**
AS0410230-2	05-00329	**$350.00**	AS0711693-7	05-00382	**$550.00**
AS0410230-3	05-00341	**$519.00**	AS0711693-8	05-00383	**$685.00**
AS0410235-1	05-00342	**$356.00**	AS0711693-9	05-00384	**$528.00**
AS0410235-2	05-00343	**$518.00**	AS1210025-2	05-00385	**$915.00**
AS0410235-6	05-00344	**$737.00**	AS1210025-3	05-00386	**$835.00**
AS0411545-1	05-00345	**$227.95**	AS1210408-1	05-00387	**$459.00**
AS0411545-2	05-00346	**$202.95**	AS1210408-12	05-00388	**$468.00**
AS0411545-3	05-00347	**$264.95**	AS1210408-14	05-00389	**$729.00**
AS0411545-4	05-00348	**$196.99**	AS1210408-15	05-00390	**$521.00**
AS0511000-14	05-00331	**$570.00**	AS1210408-16	05-00391	**$535.00**
AS0511000-15	05-00332	**$759.00**	AS1210408-17	05-00392	**$485.00**
AS0511000-64	05-00333	**$522.00**	AS1210408-18	05-00393	**$801.00**
AS0511000-68	05-00334	**$358.00**	AS1210408-21	05-00394	**$435.00**
AS0511000-69	05-00335	**$936.00**	AS1210408-22	05-00395	**$460.00**
AS0511000-70	05-00336	**$588.00**	AS1210408-23	05-00396	**$984.00**
AS0511240-10	05-00337	**$374.00**	AS1210408-24	05-00397	**$838.00**
AS0511240-11	05-00338	**$533.00**	AS1210408-4	05-00398	**$319.00**
AS0511240-12	05-00339	**$237.95**	AS1210408-5	05-00399	**$604.00**
AS0511240-14	05-00349	**$332.00**	AS1210408-6	05-00401	**$325.00**
AS0511240-15	05-00351	**$311.00**	AS1210408-8	05-00402	**$650.00**
AS0511240-2	05-00352	**$373.00**	AS1210408-9	05-00403	**$590.00**
AS0511240-3	05-00353	**$443.00**	AS1210520-11	05-00404	**$344.00**
AS0511240-4	05-00354	**$350.00**	AS1210520-12	05-00405	**$554.00**
AS0511240-5	05-00355	**$569.00**	AS1210520-15	05-00406	**$786.00**
A S0511240-6	05-00356	**$326.00**	AS1210520-16	05-00407	**$1,220.00**
AS0511240-7	05-00357	**$445.00**	AS1210520-2	05-00408	**$918.00**
AS0511240-8	05-00358	**$488.00**	AS1210520-3	05-00409	**$606.00**
AS0511240-9	05-00359	**$460.00**	AS1210520-4	05-00410	**$161.75**
AS0511243-4	05-00362	**$529.00**	AS1210520-9	05-00411	**$645.00**
AS0511243-5	05-00363	**$455.00**	AS1211514-1	05-00412	**$891.00**
AS0511243-6	05-00364	**$299.95**	AS1211514-2	05-00413	**$678.00**
AS0511293-1	05-00365	**$717.00**	AS2414002-1	05-00414	**$519.00**
AS0511293-2	05-00366	**$826.00**	AS2414002-2	05-00415	**$533.00**
AS0511293-3	05-00367	**$423.00**	ASS1551-1	05-00420	**$12.50**
AS0511293-4	05-00368	**$483.00**	ASS1554-1 Qty-8	05-00421	**$41.50**
AS0611134-2	05-00369	**$689.00**	ASS1704-1	05-00423	**$4.90**
AS0611134-3	05-00370	**$689.00**	AS1714000-22	05-00419	**$54.75**
AS0710618-1	05-00371	**$477.00**	AS1714000-41	05-00422	**$55.90**
AS0710618-4	05-00372	**$488.00**	AS0311310	05-00325	**$21.50**
AS0710618-5	05-00373	**$421.00**	AS0311586	05-00326	**$53.75**
AS0710618-6	05-00374	**$896.00**	AS0311715-3	05-00416	**$508.00**
AS0710658-2	05-00375	**$826.00**	AS0311715-4	05-00417	**$522.00**
AS0711693-1	05-00376	**$1,150.00**	AS43DD1-9	05-00432	**$8.50**
AS0711693-10	05-00377	**$729.00**	AS1613423-3	05-00418	**$191.75**
AS0711693-11	05-00378	**$482.00**	AS1414104-54	05-00424	**$40.75**
AS0711693-2	05-00379	**$305.00**			

SEAT KIT COMPONENTS (1 SEAT)

Kit No.	Description	Qty.	Part No.	Price
05-00425	Full articulating seat (2 crank handles).	Washers 8	AS1714000-22	**$201.95**
		Rollers 4	ASS1704-1	
		Bushings 4	AS1414104-54	
05-00427	Standard seat (1 or no crank handles).	Washers 8	ASS1554-1	**$213.95**
		Rollers 4	ASS1551-1	
		Bushings 4	AS1414104-54	
05-00428	1946-1962 and all 150-152	Rollers 4	AS0311310	**$271.95**
		Bushings 4	AS0311586	

For Cessna Roller Kit 141410-212 use:
- (1) Roller (P/N ASS155-1)
- (1) Bushing (P/N AS1414104-54)
- (2) Washers (P/N ASS1554-1)

These parts are generally used on the standard seats

For Cessna Roller Kit 1714000K200 use:
- (1) Roller (P/N ASS1704-1)
- (1) Bushing (P/N AS1414104-54)
- (2) Washers (P/N AS1714000-22)

These parts are generally used on the infinitely adjustable seats.

FAA-PMA Application chart for replacement parts for Cessna seats.		
Description	Part No.	Model Series Eligible
AS0311310 roller	05-00325	150, 152, 170, 172, 175, 180, 182, 185, 195, 210
AS0311586 bushing	05-00326	
ASS1554-1 washer	05-00421	172, 180, 182, 185, 188, 205, 206, 207, 210
AS1714000-22 washer	05-00419	
AS1714000-41 washer	05-00422	
AS1414104-22 bushing	05-00323	
ASS1704-1 roller	05-00423	
ASS1551-1 roller	05-00420	

CESSNA FLAP ROLLER KITS

FLP-KT-1

FLP-KT-2

Flap attachment kits are available for Cessna aircraft from Cessna 150 thru T210. Each kit contains FAA-PMA replacement rollers, bushings, and spacers for the flap attachment of one airplane. Our ASS1450-5N12-050 shims are stainless steel for better corrosion resistance. Individual FAA-PMA components are available on request.

Model	Serial No.	Year	Kit No.	Part No.	Kit Price
150	17001-15071128	59-69	FLP-KT-1	05-00317	**$689.00**
150	15071129 & on	70-77	FLP-KT-2	05-00318	**$689.00**
152	15279406 - 15285564	78-80	FLP-KT-2	05-00318	**$689.00**
152	15285565 & on	81 & on	FLP-KT-3	05-00319	**$550.00**
F152	F15201429-F15201908	78-80	FLP-KT-2	05-00318	**$689.00**
F152	F15201909 & on	81 & on	FLP-KT-3	05-00319	**$550.00**
A152	A1520735-A1521014	78-80	FLP-KT-2	05-00318	**$689.00**
A152	A1521015 & on	81 & on	FLP-KT-3	05-00319	**$550.00**
FA152	FA1520337-FA1520387	78-80	FLP-KT-2	05-00318	**$689.00**
FA152	FA1520388 & on	81 & on	FLP-KT-3	05-00319	**$550.00**
170B	ALL	52-54	FLP-KT-1	05-00317	**$689.00**
172	28000-17249544	55-62	FLP-KT-1	05-00317	**$689.00**
172	17249545-17274009	63-80	FLP-KT-2	05-00318	**$689.00**
172	17274010 & on	81 & on	FLP-KT-3	05-00319	**$550.00**
177	ALL	68-78	FLP-KT-4	05-00321	**$904.00**
175	ALL	58-62	FLP-KT-1	05-00317	**$689.00**
180	ALL	53-82	FLP-KT-1	05-00317	**$689.00**
182	33000-18253598	56-62	FLP-KT-1	05-00317	**$689.00**
182	18253599 & on	63 & on	FLP-KT-3	05-00319	**$550.00**
185	ALL	61-82	FLP-KT-1	05-00317	**$689.00**
188	ALL	66-84	FLP-KT-3	05-00319	**$550.00**
205	ALL	63-64	FLP-KT-1	05-00317	**$689.00**
206	2060001-20601568	64-70	FLP-KT-4	05-00321	**$904.00**
207	ALL	69-84	FLP-KT-4	05-00321	**$904.00**
210	57001-21058220	60-63	FLP-KT-1	05-00317	**$689.00**
210	21058819 & on	80 & on	FLP-KT-7	05-00324	**$801.00**
T210	T2100001-T2100197	64-66	FLP-KT-6	05-00323	**$1,150.00**

ASS14503510-032 Wear washer kit (8 req/kit) .P/N 05-00587 ..**$5.35 ea.**

SEAT RAIL WEAR GAUGE FOR CESSNA AIRCRAFT

For checking seat rail wear limits as per FAA A.D. 87-20-03, Effective 09/24-/1990 Seat Rail Directive The gauge is to be used for inspection of the Cessna seat rail wear. This gauge is designed to measure the actual radius wear near the seat stop holes. Notice the different sized steps in each corner.

P/N 05-04428 .....**$75.75**

CESSNA FLAP ROLLER UPGRADE KIT FLP-KT-9U

Upgrade kits include: rollers, bushings, shims, spacers where required, MCSK100 Flap Service Kits, wear washers, a copy of SEB95-3 Rev 1, and hardware (nuts, bolts, washers). Part numbers for the upgrade kits end in "U" SEB95-3 Rev 1 is not applicable to 172R,S, 182S,T, T182T, 206H, T206H, 208, 336 and 337 aircraft. Flap upgrade kits contain nuts, bolts and washers for several aircraft models. The installer must determine the correct nut, bolt and washer combination for each installation. Each flap roller kit contains enough components for one aircraft. **See our website for Aircraft Eligibility list** .....P/N 01-01345 .....**$1,222.00**

SEAT ROLLER HOUSING GAUGE

Aircraft Spruce now offers a seat roller housing measuring tool for Cessna aircraft. This gauge is designed to facilitate inspection of seat roller housings for wear as required by mandatory FAA AD 2011-10-09. This gauge simplifies determining whether the housing is in or out of tolerance by allowing the areas of concern to be gauged as opposed to measuring individual attributes of each housing with calipers. Results are positive and quick with this gauge.

P/N 05-06819 .....**$216.95**

CESSNA SEAT RAIL TEMPLATES

These template blanks are used to transfer holes from the old seat rail to the new seat rail when replacing Cessna seat rails. These templates are economical and convenient to use. One per seat rail is required. For seat rail series AS511240, AS511243, and AS24114002 use SRTEM2. All other seat rail series can use SRTEM1. NOTE: Models 150-152 do not require templates as the screw holes are predrilled. Model 177 cardinal seat rails require (2) SRTEM1 templates per rail.

Dimensions: • SRTEM1-1.5" x 38" x .025" • SRTEM2-2.25" x 30" x .025"

SRTEM1 .....P/N 05-00449 .....**$13.50**

SRTEM2 .....P/N 05-00450 .....**$12.50**

AP

REPLACEMENT PARTS FOR CESSNA

SEAT RAILS FOR CESSNA AIRCRAFT

These seat rails have only pilot holes drilled in the rail base allowing the installer to exactly match the aircraft floor rivet pattern. The manufacturer discovered while installing and developing our replacement seat rails that the seat rail attachment hole pattern was not consistent from aircraft to aircraft. Even small inconsistencies in the hole locations in the aircraft floor make installation of new seat rails very difficult. For this reason, all these seat rails have only a few smaller pilot attachment holes drilled at the factory. This allows the installer to precisely locate the attachment holes to match the holes in the aircraft floor. It is necessary to install all required fasteners when seat rails are installed. After studying countless worn and failed seat rails these rails were designed with 15% more metal in critical areas. The result is more crack resistant, durability, strength and longer life. **Installation Tip**: The aircraft floor is subject to corrosion from moisture under the seat rails, be sure to remove and treat any corrosion before installing the new seat rails.

Description	Part No.	Price
AS0411545-2	05-00346	**$202.95**
AS0411545-1	05-00345	**$227.95**
AS0411545-3	05-00347	**$264.95**
AS0411545-4	05-00348	**$196.99**
AS0410219-2	05-00328	**$599.00**
AS0410219-1	05-00327	**$339.00**
AS0410230-2	05-00329	**$350.00**
AS0410230-3	05-00341	**$519.00**
AS0410235-6	05-00344	**$737.00**
AS0410235-1	05-00342	**$356.00**
AS0410235-2	05-00343	**$518.00**
AS0511000-14	05-00331	**$570.00**
AS0511000-15	05-00332	**$759.00**
AS0511293-1	05-00365	**$717.00**

Description	Part No.	Price
AS0511293-3	05-00367	**$423.00**
AS0511293-4	05-00368	**$483.00**
AS0511293-2	05-00366	**$826.00**
AS0511240-4	05-00354	**$350.00**
AS0511240-2	05-00352	**$373.00**
AS0511240-3	05-00353	**$443.00**
AS0511240-6	05-00356	**$326.00**
AS0511240-7	05-00357	**$445.00**
AS0511240-8	05-00358	**$488.00**
AS0511240-9	05-00359	**$460.00**
AS0511243-4	05-00362	**$529.00**
AS0511243-5	05-00363	**$455.00**
AS0511243-6	05-00364	**$299.95**
AS2414002-1	05-00414	**$519.00**
AS2414002-2	05-00415	**$533.00**

RUDDER PEDALS FOR CESSNA AIRCRAFT

COMPLETELY NEW RUDDER PEDAL

- Less money and longer life!
- Bronze bushings at the pivot points resist wear and vibration for longer pedal life.
- Precision cast heat treated aluminum alloy
- Power coat finish for durability and corrosion protection.
- FAA-PMA direct replacement for Cessna (Part #1460320-1)

Model AP2000-01 .....PN 05-04165 .....**$355.00**

SAF-T-STOP

Saf-T-Stop is an auxiliary seat stop mechanism approved by the FAA for use with Cessna seat track A. D. #87-20-03. Installs easily, sliding over seat track. Approved for: Cessna 150, 152, 172, R172, 175, 180, 182, 185, 190, 205, 206, 207, 210, 303, 337. Not a seat lock, Saf-T-Stop is designed to restrict rearward motion if the seat lock fails..... P/N 13-18510 .....**$105.95**

SEAT STOPPERS

Insert in the seat track before flight to secure pilot and passenger seats and prevent any aft movement if the seat lock fails. Effective in all flight conditions and in turbulence. The o-ring is sized to ensure a snug fit in the seat track. Easy to reach back, insert and remove from the seat track when you're seated. Designed for use in the Piper Aerostar when the EZ-Glide upgrade is incorporated but compatible with any aircraft using 210078 or equivalent seat track. Make it your key fob and never have to search for your keys again! Package of 1 .....P/N 05-14950 .....**$150.75**

CESSNA TAIL SLIDE

This Patented Cessna Tail slide is designed to slide across the surface and gently lift the tail at the same time. It attaches to the original point and the bulkhead forward providing extra strength and the lifting action as opposed to the factory ring digging in and pulling. It also cradles the rear bulkhead and adds considerable strength preventing crushing.....P/N 06-03274 .....**$2,070.00**

CAM STYLE SEAT LOCK

A unique cam style lock that locks in place when the handle is firmly pressed down and makes contact with the seat rails. Version 2.1 is fully adjustable to accommodate between different seat rail manufacturers, specifically Cessna and McFarlane. Adjustments are also useful when slight wear is experienced on seat rails. This product has been FAA-PMA approved .....P/N 05-22220 .....**$172.75**

SEAT STOP KITS FOR CESSNAS

These seat stops and related hardware are available in convenient kits for your aircraft. Call for the correct kit part no. for your Cessna aircraft.
Kit #1 (1 ea. AS0713074-1, 1 ea. MS24665-132-1, 1 ea. MS20392-1C21).....P/N 05-00580.....**$47.65**
Kit #2 (1 ea. AS0511242-1, 1 ea. MS35265-41) . P/N 05-00581.....**$28.60**
Kit #3 (1 ea. AS0713074-1, 1 ea. MS24665-132, 1 ea. MS20392-1C21, 2 ea. NAS43DD1-9) .....P/N 05-00582.....**$63.75**

FUEL STRAINER KIT FOR CESSNA AIRCRAFT

FUEL STRAINER SEAL KIT

Kit contains: Gasket and 3 O- Rings Approved for Cessna models: 180H*, J, K.....P/N 05-01705 .....**$28.80**

FS-KT-2 FUEL BOWL KIT (FAA-PMA)

Kit contains: 1 MC0756009-8 Gasket 1 MC0756008-1 Fuel bowl 1 MCM83248/1-010 O-ring 1 MCM83248/1-111 O-ring 1 MCM83248/1-138 O-ring 1 MC0756015-1 Washer 1 MCS1573-3 Nut .....P/N 05-04425 .....**$326.00**

FS-KT-3 FUEL STRAINER REBUILD KITS

Kit contains: (1) FS-KT-1 Gasket kit (1) MC0756008-1 Fuel bowl (1) MC0756015-1 Washer (1) MCS1573-3 Nut (1) MC0756010-11 Plunger (1) MC0756011-1 Standpipe (2) MCS145027 A7-032 Washer (1) 0756012-1 Spring
P/N 05-04426 .....**$740.00**

FUEL STRAINER PLUNGER

MC0756010-11 • Special electro polished shaft for longer o-ring life. • McFarlane's blue Viton rubber tip will outlast the original in any fuel!.....P/N 05-04424 .....**$256.95**

FUEL STRAINER ASSEMBLY

Kit contains: Gasket Kit, Fuel Bowl, 2 Washers, Nut, Plunger, Standpipe, Spring, and Top Assembly. Approved for Cessna models: 182 H*, J, K, L , M, N , P , Q, R
P/N 05-04111 .....**$1,167.00**

FUEL STRAINER AND CABLE KIT

Kit contains: Gasket Kit, Fuel Bowl, 2 Washers, Nut, Plunger, Standpipe, Spring, Top Assembly, Filter, and Strainer Drain Cable Approved for Cessna models: F182P, Q
P/N 05-04112 .....**$1,364.00**

FUEL STRAINER BOWL

Engineered to last! Manufactured using improved materials for added strength and gold anodized for corrosion resistance. Computer machined (not die cast).
P/N 05-01704 .....**$304.00**

FUEL STRAINER STANDPIPE

The last one you will buy! Stainless steel, No more corrosion pits or stripped threads, Costs less!
P/N 05-00281 .....**$318.00**

FUEL STRAINER TOP ASSEMBLY FOR CESSNA AIRCRAFT

Applicable to many Cessna aircraft models. Assembly, part number MC0756005-2 includes multiple improvements to address corrosion related service problems with the original Cessna housing. The fuel inlet tube attached has also been improved with redundant methods of attachment to ensure a reliable, secure fit. FAA Approved.....P/N 05-07238 .....**$633.00**

FUEL STRAINER SEAL KIT FOR CESSNA AIRCRAFT

For Cessna models using aluminum Gasket and "O" Rings. Kit contains: Gasket and 3 O- Rings.
P/N 06-02463 .....**$12.50**

CESSNA FLAP SWITCH

Cessna Flap Switch S1661-1 .....P/N 05-26742 .....**$896.00**

AEROTAR BELLCRANK FOR CESSNA

Aerotar 0514030-4 Bellcrank for Cessna.
P/N 08-15787 .....**$546.00**

CESSNA 177RG FUEL RESERVOIR DRAIN PLUNGER

In addition to the Fuel Strainer Plunger McFarlane now has the Fuel Reservoir Plunger for the Cessna Cardinal 177RG aircrarft.
P/N 05-04613 .....**$508.00**

CESSNA 208 CREW LADDER COMPONENTS

Airforms has been awarded FAA PMA approvals for a number of the components for the C208/208B Crew Ladder Assembly, including left hand and right hand Upper and Lower Arm Assembles, Upper and Lower Step Assemblies, Bracket Assemblies, Spacers and replacement tread for the steps

OEM Part No.	Type of Hinge	Part No.	Price
AF2606033-10	Step Assembly, Lower with Tread	05-26618	**$1,349.00**
AF2606033-12	Step Assembly, Upper with Tread	05-26619	**$1,349.00**
AF2606033-14	Tread, Tread Step	05-26621	**$72.80**
AF2606033-15	Tread, Upper Step	05-26622	**$72.80**
AF2606033-36	Bracket Assembly, Left Hand	05-26624	**$765.00**
AF2606033-37	Bracket Assembly, Right Hand	05-26625	**$765.00**
AF2606033-43	Arm Assembly, Upper, Left Hand	05-26626	**$2,302.00**
AF2606033-44	Arm Assembly, Upper, Right Hand	05-26627	**$2,302.00**
AF2606033-2	Arm Assembly, Lower, Left Hand	05-26623	**$1,281.00**
AF2606033-4	Arm Assembly, Lower, Right Hand	05-26631	**$1,281.00**
AF133-4P28	Spacers, Bracket	05-26628	**$217.95**
AF133-4P32	Spacers, Arm	05-26629	**$219.95**

RUDDER AND ELEVATOR BUSHING KITS FOR CESSNA

These kits include two bushing sizes for each hinge location. This allows a selective fit and solves the common Cessna fit and interference problems. • Hardened corrosion resistant stainless steel. • Cessna models 120 thru 177 • All components are also available separately.

Model	Elevator Bushing Kit	Rudder Bushing Kit
120, 140, 140A (Bushing)	MC0422215	MC0431119K
150, 150A, B, C, D, E	EBC-KT-1	RBC-KT-1
150F, G, H, J	EBC-KT-1	RBC-KT-2
150K*, A150K* Eligibility Note 1 (150K S/N 15071129 THRU 15071621; A150K S/N A1500001 THRU A1500129)	EBC-KT-1	RBC-KT-3
150K*, L,M, A150K*, L,M Eligibility Note 2 (150K S/N 15071622 THRU 15072003; A150K S/N A1500130 THRU A1500226)	EBC-KT-2	RBC-KT-3
A-150L, A-A150L	EBC-KT-2	RBC-KT-3
F150F,G,H,J	EBC-KT-1	RBC-KT-2
F150K, L*, FA150K* Eligibility Note 3 (F150L S/N 15000659 THRU F15000699; FA150K S/N FA1500001 THRU FA1500039)	EBC-KT-1	RBC-KT-3
F150L*, M, FA150K*,L,M Eligibility Note 4 (F150L S/N 15000700 THRU F15001143; F150K S/N FA1500040 THRU FA1500081)	EBC-KT-2	RBC-KT-3
FRA150L, M	EBC-KT-2	RBC-KT-3
152*, A152* Eligibility Note 5 (152 S/N 15279406 THRU 15285833; A152 S/N A1520735 THRU A1521025)	EBC-KT-3	RBC-KT-3
152*, A152* Eligibility Note 6 (152 S/N 15285834 THRU 15286033; A152 S/N A1521026 THRU A1521049)	EBC-KT-4	RBC-KT-3
F152*, FA152* Note Eligibility Note 7 (F152 S/N 15201429 THRU F15201943; FA152 S/N FA1520337 THRU FA15203879)	EBC-KT-3	RBC-KT-3
F152*, FA152* Eligibility Note 8 (F152 S/N F1501944 THRU F15201980; FA152 S/N FA1520388 THRU FA1520425)	EBC-KT-4	RBC-KT-3
172, 175	EBC-KT-5	RBC-KT-4
172A,B,C* 175A,B,C* Eligibility Note 9 (172C S/N 17248735 THRU 17249085; 175C S/N 17557003 THRU17557064)	EBC-KT-5	RBC-KT-5
172C*,175C* Eligibility Note 10 (172C S/N 17249086 THRU 17249544; 175C S/N 17557065 THRU 17557119)	EBC-KT-5	RBC-KT-6
172D, E, F, G, H, I, K, L, M, N, P* Eligibility Note 11 (172P S/N 17274010 THRU 17275963)	EBC-KT-5	RBC-KT-6
172P*, Q, R, S Eligibility Note 12 (172P S/N 17275964 THRU 17276654)	EBC-KT-5	RBC-KT-7
172RG, P172D, R172K	EBC-KT-5	RBC-KT-6
F172D, E, F, G, H, K, L, M, N, P* Eligibility Note 13 (172P S/N F17202040 THRU F17202208)	EBC-KT-5	RBC-KT-6
F172P* Note Eligibility Note 14 (172P S/N F17202209 THRU F17202254)	EBC-KT-5	RBC-KT-7
F172, FR172 E, F, G, H, J, K	EBC-KT-5	RBC-KT-6
177,177 A, B, 177 RG, F177 RG	-	MC0532104K

Unless otherwise noted, approval is for all serial numbers for each model listed. The eligibility for the kits also applies to the component bushings and bearings.

ELEVATOR BUSHING KIT COMPONENTS:

2 Bearings, 2 Bushings, 2 Bolts, 2 Washers, 2 Nuts, and 2 Pins.

EBC-KT-1 .....P/N 05-04576 .....**$74.75**
EBC-KT-2 .....P/N 05-04577 .....**$79.75**
EBC-KT-3 .....P/N 05-04578 .....**$86.75**
EBC-KT-4 .....P/N 05-04579 .....**$135.75**
EBC-KT-5 .....P/N 05-04580 .....**$130.80**

RUDDER BUSHING KIT COMPONENTS:

2 Bearings, 2 Bushings, 2 Bolts, 2 Washers, 2 Nuts, and 2 Pins.

RBC-KT-1 .....P/N 05-04569 .....**$44.95**
RBC-KT-2 .....P/N 05-04570 .....**$158.75**
RBC-KT-3 .....P/N 05-04571 .....**$156.99**
RBC-KT-4 .....P/N 05-04572 .....**$77.75**
RBC-KT-5 .....P/N 05-04573 .....**$129.75**
RBC-KT-6 .....P/N 05-04574 .....**$126.75**
RBC-KT-7 .....P/N 05-04575 .....**$119.80**

ELEVATOR & RUDDER HINGE BEARING TOOL

This unique tool is specifically designed to prevent damage when installing or removing sintered bronze elevator and rudder hinge bearings in Cessna aircraft. Seven piece kit for common bearing sizes. Heat treated stainless steel will last a lifetime. Kit comes in a convenient storage pouch.....P/N 05-04869 .....**$133.75**

CESSNA ROD ENDS

Description	Part Number	Price
Cessna Rod End S1105-4	06-00685	**$79.85**
Cessna Rod End S1819-3	05-01819-3	**$68.75**

FLAP ROLLER INSTALL TOOL 970

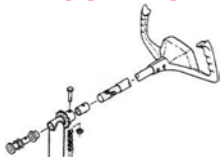
Makes installation of the aft flap roller, bushing and washers easy. Holds parts in alignment while inserting the bolt. Long handle allows access through the small inspection openings. Cessna 150 thru 210 .....P/N 05-04764 .....**$68.95**

CESSNA 182 GROSS WEIGHT INCREASE STC

A Supplemental Type Certificate (STC) that will increase the useful load of a Cessna 182P or 182Q by 150 to 160 pounds, and the ramp weight (in most cases) by 160 pounds. This STC requires no parts, no modifications, and no installation labor costs.

P/N 05-04889 .....**$1,035.00**

CONTROL YOKE UNIVERSAL JOINTS



A universal joint attaches to each control yoke shaft behind the instrument panel. Replacement of the universal joint is recommended if any free motion or rust around the joint pivots is detected.

CESSNA CONTROL YOKE UNIVERSAL JOINT FAA-PMA

MC0411257 - A universal joint attaches to each control yoke shaft behind the instrument panel. Slack or roughness in control yoke motion commonly indicates excess universal joint wear or corrosion that may necessitate replacement. Includes protective sleeve.

• Restores safe, responsive control.
• Cessna models 120 thru 210A.....P/N 05-04558 .....**$467.00**

SLEEVE, PIN RETENTION FAA-PMA

MC6183 - A universal joint attaches to each control yoke shaft behind the instrument panel. Slack or roughness in control yoke motion commonly indicates excess universal joint wear or corrosion that may necessitate replacement.

The universal joints and the sleeve are available separately or together in the kit UJC-KT-1 for Cessna models 150 thru A185. Each convenient kit also includes installation hardware.

P/N 05-04559 .....**$14.60**

BLUE SKY LATCH FOR CESSNAS

Install it right on the plane. Simply dri ll out the two rivets holding your old latch system on your door. You will use these two same holes to install the Blue Sky Latch. The latch is made from TPE (thermal plastic rubber), it has excellent weather ability, and stands up to extreme temperatures. Next use a hack saw blade and cut off that point on your door stem. Then use a small hammer and tap the strike on the end. Align your door using the phillips head adjustment on your door stem. You're done. The Thermal plastic rubber acts a bumper as well as a latch. You get all the hardware including structural AN screws and elastic stop nuts in the kit. Step by Step installation guide with photos showing how easy it is to install.

C150 & 152.....P/N 05-04563 .....**$55.75**

AP

CESSNA BEARING ELEVATOR S1003-29A

FAA-PMA Approved.
Please check your Owner's Manual for Eligibility.
P/N 06-02538 .....**$3.80**

CESSNA WINDOW LATCH ASSEMBLIES

208 Window Latch Aircraft Assembly .....P/N 06-02522 .....**$867.00**
176 Window Latch Aircraft Assembly .....P/N 06-02523 .....**$906.00**

WASHER FUEL BOWL FOR CESSNA AIRCRAFT

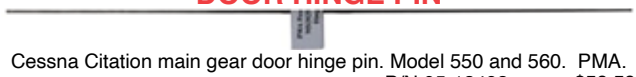
Washer Fuel Bowl for Cessna Aircraft - MC0756015-1.
P/N 01-01354 .....**$34.50**

CESSNA UNIVERSAL JOINT KIT

A universal joint attaches to each control yoke shaft behind the instrument panel. Replacement of the universal joint is recommended if any free motion or rust around the joint pivots is detected. McFarlane also has FAA-PMA approval for the protection sleeve that slides over the universal joint to reduce vibration wear and act as a safety device. The sleeve is included with every MC0411257 universal joint. Each convenient kit includes nuts and two bolt sizes; only two of the four bolts provided are required when installing the universal joint.....P/N 05-22942 .....**$496.00**

SEE OUR WEBSITE FOR AIRCRAFT ELIGIBILITY LIST.

CESSNA CITATION MAIN GEAR DOOR HINGE PIN



Cessna Citation main gear door hinge pin. Model 550 and 560. PMA.
P/N 05-12492 .....**$50.50**

CESSNA O-RING NOSE STRUT

MCS1628-329 Cessna O-Ring Nose Strut. FAA-PMA.
P/N 06-01586 .....**$3.70**

S2418-1 CESSNA SCRAPER RING NOSE STRUT

S2418-1 Cessna Scraper, Ring, Nose Strut. FAA-PMA
P/N 06-01588 .....**$12.50**

BRASS SHIM TORQUE LINK

FAA-PMA APPROVED

Eliminates undampened torque link motion to prevent shimmy.

Part No.	Cessna Part No.	Thickness	Price ea
05-00429	S1450-6B14-010	.010"	**$6.50**
05-00430	S1450-6B14-007	.007"	**$6.50**
05-00431	S1450-6B14-005	.005"	**$6.50**

CESSNA BEARING FIN S1004-42A

FAA-PMA Approved. Please check your Owner's Manual for Eligibility. .....P/N 06-02539 .....**$26.50**

CESSNA SPACERS

Spacer sleeve: made of aluminum alloy 2024 overall
P/N 06-00639 .....**$0.35**

CESSNA STUDS

S115-32 Cessna Stud .....P/N 06-02841 .....**$2.14**
S115-35 Cessna Stud .....P/N 06-02842 .....**$3.40**

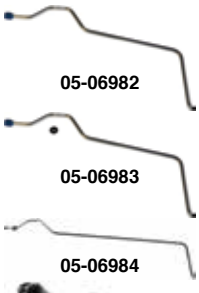
150/152 SEAT RAIL SCREW KIT SR150-SCREW-KIT

This is screw kit specifically for the Cessna 150/152 seat rails. This #10 Structural Screw Kit contains all screws and nuts required to install four seat rails. Kit Contains: 40 MS27039-1-08 Screw 10-32 x .531, 2 MS27039-1-09 Screw 10-32 x .594, 2 MS27039-1-17 Screw 10-32 x 1.094, 40 MS21044N3 Nut, Nylon Lock.....P/N 05-04107.....**$46.60**

CESSNA MOTOR MOUNT BLOCK LOCK WASHER

One side is embossed with a surface texture for improved locking strength and to make sure the washer does not slip while tightening. FAA approved using stronger material than the original, allowing the standard washer to be eliminated. *Designed with six tabs instead of two.*Cessna 180, 182, 185, 188, 205, 206, 207, 210, 310, 320, 411, and 414 model aircraft.....P/N 05-01742 .....**$16.50**

CESSNA FUEL VENT LINES



We now have the improved fuel vent lines approved for many additional Cessna 150, 172, and 175 series aircraft. Parts ending with a "K" suffix indicate the inclusion of a rubber grommet, p/n MS3548-14, and hose, p/n MCS1495-8. **Features**: • Stops environmental and asphalt damage • Fly with known full tanks • Extends useful range • FAA-PMA direct replacement – No STC or 337 for needed

Model	Part No.	Price
MC0523559-6	05-06982	**$384.00**
MC0523559-6K	05-06983	**$392.00**
MC0523559-8	05-06984	**$390.00**
MS0523559-8K	05-06985	**$333.00**

CESSNA S1878-1 STUD TRIMOUNT

Cessna S1878-1 Stud Trimount.
P/N 06-02839 .....**$1.52**

MC1243426-2 UPPER TORQUE LINK ASSEMBLY

A stronger upper torque link for Cessna 210 Aircraft ..... P/N 05-22403.... **$3,797.00**

CARAVAN SPOILER HINGES

FAA-PMA direct replacement. Eligible for all Cessna Caravan 208,208B. Selective fit components. Cadmium plated stainless pins and anodized aluminum hinges for better corrosion resistance. No looseness in the hinge to start vibration wear.

Description	Part No.	Price
MC2622187-R Hinge, Spoiler, RH TAB	05-17644	**$216.95**
MC2622187-L Hinge, Spoiler, LH TAB	05-17648	**$233.95**

CARAVAN TORQUE LINKS

Nose gear torque links for Cessna 208/208B Caravan aircraft. These durable and finely machined replacement torque links are designed to meet the rigors of the Alaskan bush.

Description	Part Number	Price
Torque Link Upper	05-12925	**$1,368.00**
Torque Link Lower	05-12926	**$1,440.00**

PASSENGER DOOR STEP FOR CESSNA CARAVAN

Engineered for increased longevity and constructed solely from aluminum. No more delamination. Direct replacement for all positions, Cessna P/Ns 2617076-1 (lower), 2617076-10 (upper), and 2617076-11 (middle)..... P/N 05-22906 .....**$2,289.00**

ROLLER HOUSINGS FOR CESSNA

McFarlane Part No.	Spruce Part No.	Description	Price
MC0700645-1	05-15011	Left Seat Roller Housing	**$347.00**
MC0700645-2	05-15010	Right Seat Roller Housing	**$363.00**
MC0700645-3	05-15009	Left Seat Roller Housing	**$363.00**
MC0700645-4	05-15008	Right Seat Roller Housing	**$347.00**
MC1200603-38	05-15012	Right Seat Roller Housing	**$78.75**
MC1200603-38	05-15013	Left Seat Roller Housing	**$67.75**
MC1200603-41	05-15015	Left Seat Roller Housing	**$312.00**
MC1200603-42	05-15014	Right Seat Roller Housing	**$110.75**
MC1414104-25	05-15001	Left Seat Roller Housing	**$265.95**
MC1414104-39	05-15002	Left Seat Roller Housing	**$202.95**
MC1414104-40	05-14996	Right Seat Roller Housing	**$217.95**

McFarlane Part No.	Spruce Part No.	Description	Price
MC1414104-41	05-14995	Left Seat Roller Housing	**$156.99**
MC1414104-42	05-14994	Right Seat Roller Housing	**$141.80**
MC1414104-61	05-15004	Right Seat Roller Housing	**$245.95**
MC1414104-65	05-15007	Right Seat Roller Housing	**$267.95**
MC1414104-67	05-14997	Left Seat Roller Housing	**$260.95**
MC1414104-71	05-14999	Left Seat Roller Housing	**$351.00**
MC1414104-72	05-15005	Right Seat Roller Housing	**$358.00**
MC1714000-33	05-15016	Right Seat Roller Housing	**$286.95**
MC1714000-33	05-15017	Left Seat Roller Housing	**$300.95**
MC1414104-8	05-15041	Universal Bracket for Cessna Seat Roller Housings	**$16.50**
See the website for complete application information.			

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

FLAP TRACKS FOR CESSNA CARAVAN

Replace worn-out tracks to prevent dangerous and expensive binding problems!

Description	Part No.	Price
Cessna Caravan Flap Tracks MC2622075-4	05-13089	**$2,451.00**
Cessna Caravan Flap Tracks MC2622075-5	05-13091	**$1,378.00**
Cessna Caravan Flap Tracks MC2622075-6	05-13092	**$1,390.00**

FLIGHT CONTROL CABLES - AILERON

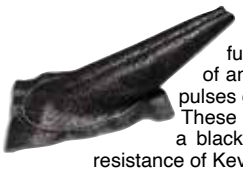
FAA-PMA approved cables for most 172 series Cessna aircraft. See website for aircraft eligibility.

Model No.	Description	Part No.	Price
MC0510105-360	Aileron Direct To Cabin Control Cable	05-13305	**$238.95**
MC0510105-362	Aileron Direct To Bellcrank Control Cable	05-13306	**$165.75**
MC0510105-364	Aileron Carry Thru LH Control Cable	05-13307	**$169.75**
MC0510105-365	Aileron Carry Thru RH Control Cable	05-13308	**$165.75**

CESSNA FUEL STRAINER GASKET

Cessna Fuel Strainer Gasket - FAA PMA. MC0756009. See our website for Aircraft Eligibility information.
Each.....P/N 05-14676 .....**$28.80**
Pack of 5.....P/N 05-12515 .....**$120.75**

CESSNA NOSE WHEEL STEERING ROD BOOT



Cessna steering rod boots to keep out exhaust gases and prevent smoke and fumes from entering the cockpit in the event of an engine fire while tolerating the constant air pulses caused by the rotating propeller.
These steering rod boots are manufactured with a black Kevlar/fiberglass blend fabric. The fatigue resistance of Kevlar is uniquely mated with the fire resistance of fiberglass. This is a super tough, high temperature fabric that will provide many years of outstanding performance.

Description	Part No.	Price
Cessna 150 & 152 Series Boot	05-00277	**$147.75**
Cessna 172, 175, & 182 Early Series Boot	05-00279	**$161.75**
Cessna 150, 151, 152 Series	05-22408	**$452.00**
Cessna 172, 175, Early 182 Series	05-22409	**$490.00**

CESSNA BEARING S16474-1

Cessna Bearing Halves for torque tube / inboard / outboard braking system use. S16474-1 Cessna Bearing Half. Replaces 0411263, 0411263-5, 0411263-6. Sold as each half, quantity (2) halves required for most applications. Refer to your Cessna Manual for proper eligibility.
P/N 06-02547 .....**$7.50**

CESSNA BEARING S16475-1

Cessna Bearing Halves for torque tube / inboard / outboard braking system use. S16475-1 Cessna Bearing Half. Replaces of 0411264, 0411264-5, 0411264-6. Sold as each half, quantity (2) halves required for most applications. Refer to your Cessna Manual for proper eligibility.....P/N 06-02548 .....**$8.99**

CESSNA CARAVAN CHAINS AND CABLES

Quality standards exceed the applicable military specifications to produce the safest cables possible. Now these quality cables are available as FAA-PMA direct replacements for the Cessna Caravan 208 and 208B.
• DOD QML 6117 certified cable manufacturer • Innovative design • Longer service life • Refined ball seat eliminates stress concentration and 17-4 stainless steel increases strength and corrosion resistance. • Added offset link eliminates binding.

Description	Part No.	Price
Aileron Trim Chain MCS2295-25-35	05-13098	**$72.80**
Aileron Trim Chain MCS2295-25-43	05-13099	**$83.85**
Elevator Electric Trim Chain MCS2295-25-101	05-13101	**$210.95**
Elevator Trim Chain MCS2295-25-87	05-13102	**$62.80**
Pitch Trim Servo Chain MCS2295-25-107	05-13103	**$181.85**
Elevator Trim Wheel Chain MCS2295-25-247	05-13104	**$199.80**
Elevator Up Aft Cable MC2660001-100	05-13105	**$373.00**
Elevator Up Fwd Cable MC2660001-101	05-13106	**$103.75**
Elevator Down Aft Cable MCS2660001-102	05-13107	**$249.95**
Elevator Down Fwd Cable MCS2660001-103	05-13108	**$931.00**
Rudder Right Aft Cable MCS2660001-104	05-13109	**$445.00**
Flap Cable MCS2660001-105	05-13110	**$282.95**
Rudder Right Fwd Cable MCS2660001-106	05-13111	**$835.00**
Rudder Left AFT Cable MCS2660001-107	05-13112	**$345.00**
Rudder Left Fwd Cable MCS2660001-108	05-13113	**$906.00**
Elevator Trim Act To Act Cable MCS2660001-109	05-13114	**$238.95**
Elevator Trim Up Aft Cable MCS2660001-110	05-13115	**$510.00**
Elevator Trim Down Aft Cable MCS2660001-112	05-13116	**$492.00**
Aileron To Bellcrank Cable MCS2660001-114	05-13117	**$263.95**

Description	Part No.	Price
LH Column To Quad Barrel MCS2660001-118	05-13118	**$448.00**
RH Column To Quad Barrel Cable MCS2660001-119	05-13119	**$203.95**
A-700 Control 120" Black Knob	05-13120	**$159.75**
Lwr Quadrant Cable MCS2660001-122	05-13121	**$188.75**
Cntrl Column Intcnct RH Inbd Cbl MCS2660001-123	05-13122	**$206.95**
Cntrl Column Intcnct LH Inbd MCS2660001-124	05-13123	**$195.75**
Cntrl Column Inrcnct RH Outbd MCS2660001-125	05-13124	**$210.95**
Cntrl Column Intrcnct LH Outbd MCS2660001-126	05-13125	**$281.95**
Elevator Down Fwd Cable MCS2660001-147	05-13126	**$443.00**
Rudder Right Fwd Cable MCS2660001-148	05-13127	**$500.00**
Elevator Trim Up Fwd Cable MCS2660001-149	05-13128	**$293.95**
Elevator Trim Down Fwd Cable MCS2660001-150	05-13129	**$972.00**
Aileron LH Column Quad To Brrl MCS2660001-151	05-13130	**$434.00**
Aileron RH Column Quad To Brrl Cble MC2660001-152	05-13131	**$377.00**
Elevator Up Fwd Cable MC2660001-153	05-13134	**$329.00**
Rudder Right Fwd Cable MC2660001-154	05-13135	**$446.00**
Elevator Trim Down Fwd Cable MC2660001-155	05-13136	**$228.95**
Elevator Trim Down Fwd Cable MC2660001-156	05-13137	**$341.00**
Aileron Lower Quadrant Cable MC2660001-157	05-13138	**$737.00**

COWL FLAP CONTROLS EARLY CESSNA 180 SERIES

FAA-PMA approval for cowl flap controls for early Cessna 180 model series aircraft. These new controls are the dual style, push to unlock type, eligible for Cessna 180, 180A, and 180B series aircraft. They feature a hardened stainless steel housing that won't wear and prematurely lose locking strength like the OEM brass housings. The new cowl flap controls offer solid metal construction and Teflon lined conduit, providing precise, positive control even after years of service in the harshest environments. Available with your choice of a black anodized knob or original style chrome knob.

MC0713041-1 Chrome Knob.....P/N 05-06979 .....**$379.00**
MC0713041-1B Black Knob .....P/N 05-06980 .....**$336.00**

CESSNA PMA'D SEAT TRACK HOUSING

These PMA'D parts are eligible on 172, 180, 185, 205, 206, 207, 210, 336 and 337. These are made of a strong alloy and are thicker at wear points. PMA'd

Model No.	Part No.	Price
1414104-39	06-01961	**$178.75**
1414104-40	06-01962	**$182.75**
1414104-42	06-01964	**$117.75**
1414104-61	06-01965	**$219.95**
1414104-65	06-01967	**$240.95**
1414104-67	06-01968	**$231.95**
1414104-71	06-01969	**$329.00**
1414104-72	06-01970	**$322.00**
1414104-8	06-01971	**$17.75**
1200604-13	06-01972	**$788.00**
1200604-14	06-01973	**$816.00**
1200604-28	06-01974	**$456.00**
1200604-29	06-01975	**$423.00**
0700645-1	06-01976	**$318.00**
0700645-2	06-01977	**$332.00**
0700645-3	06-01978	**$332.00**
0700645-4	06-01979	**$318.00**
1200603-38	06-01980	**$62.75**
1200603-41	06-01981	**$281.95**
1200603-42	06-03295	**$89.75**
1212162-1	06-01982	**$840.00**
1214022-2	06-01983	**$855.00**
1214023-1	06-01984	**$528.00**
1214023-2	06-01985	**$463.00**
1714000-33	06-01987	**$259.95**

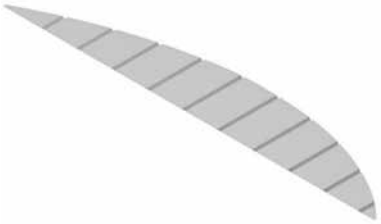
STABILIZER JACK SCREW ACTUATOR KIT FOR CESSNA 180, 182 AND 185 AIRCRAFT

This is a FAA-PMA/STC Stabilizer Jack Screw Actuator Kit for Cessna models 180, 180A-K, 182, 182A-C, 185, 185A-E, and A185E-F aircraft. Directly replaces the original Cessna assembly.

The original low-grade steel components have been replaced with duplex stainless steel for extreme corrosion resistance even in a harsh saltwater environment. This high strength stainless steel was developed by the British for under-sea concrete reinforcing. Saltwater does not have any effect on this steel. Precision bearings are used with precision machining to reduce free play, while using extra-low temperature grease for easy turning in low temperatures. For improved strength and reliability, McFarlane redesigned the sprocket and retaining collar to allow for the use of a 5/32" roll pin for attachment, as opposed to the 3/32" roll pins originally used. This more than doubles the strength of the design. Bushings and a stainless steel chain with connectors are included.

P/N 05-06467 .....**$3,016.00**

ELEVATOR TRIM SKINS CESSNA 170/190/195



Features:
- More precise corrugation spacing and shape
- No pre-drilled holes to misalign
- Precisely formed and CNC cut to shape to match OEM skins
- Plastic coated on both sides for better protection during handling (remove before installation)
- Direct replacement - No STC required

Description	Part Number	Price
Elevator Tab Lower MC0334100-4	05-07174	**$169.75**
Elevator Tab Upper MC0334100-3	05-07176	**$177.75**
Elevator Upper RH MC0334100-5	05-07177	**$372.00**
Elevator Lower RH MC0334100-6	05-07178	**$372.00**
Elevator Upper LH MC0334200-4	05-07179	**$370.00**
Elevator Lower LH MC0334200-3	05-07181	**$172.75**

COWL SAVER BAFFLE SEALS FOR 172R/S CESSNA AIRCRAFT

FAA-PMA Approved Baffle Seals for 172R/S Cessna Aircraft.

Features:
- FAA-PMA Approved
- Part Numbers MC0509070-4, MC0509071-2, MC0509072-4, MC0509074-2 are applicable to Cessna 172Q/R/S aircraft
- Cowl SaverTM new low friction laminated material (30x less friction than silicone)
- Precut seals for fast installation
- Addresses issues raised in SB 08-53-01 regarding cracking due to vibration
- BSC-KT-1 kit includes all required baffle seals, MS20470A4-5 soft rivets and 6036-012 retainer strips for one aircraft

McFarlane Part Number	Description	Our Part Number	Price
BSC-KT-1	Baffle Seal KIT	05-06475	**$849.00**
MC0509069-4	Baffle Seal, RH AFT	05-06476	**$81.75**
MC0509070-4	Baffle Seal, LH AFT	05-06477	**$81.75**
MC0509071-2	Baffle Seal, CYL 1 RH FWD	05-06478	**$74.75**
MC0509072-4	Baffle Seal, CYL 2 LH FWD	05-06479	**$74.75**
MC0509073-6	Baffle Seal, CYL 3 RH AFT	05-06480	**$74.75**
MC0509074-2	Baffle Seal, CYL 4 LH AFT	05-06481	**$74.75**
MC0509079-2	Baffle Seal, Air Intake Heat M	05-06482	**$126.75**
MC0555250-17	Baffle Seal, Fwd RH Lower	05-06483	**$103.75**
MC0555250-18	Baffle Seal, Fwd RH Middle	05-06484	**$92.75**
MC0555250-19	Baffle Seal, Fwd RH Upper	05-06485	**$74.75**
MC0555259-25	Baffle Seal, Fwd LH Lower	05-06486	**$107.75**
MC0555259-26	Baffle Seal, Fwd LH Middle	05-06487	**$92.75**
MC0555259-27	Baffle Seal, Fwd LH Upper	05-06488	**$110.75**
MC2455076-1	Baffle Seal, RH AFT Sub Panel	05-06489	**$64.75**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

CESSNA ENGINE BAFFLES

Powder Coat: Only color is Hammertone (Gray) Powder Coating
Complete Engine Baffle Kits for Cessna 150 (Years: 1964 -70).
These baffles are FAA/PMA approved, have the silicone seals attached, and arrive ready to install.
Airforms is the premier manufacturer of FAA-PMA replacement baffle components.

Note:
- If aftermarket components of different dimensions have been installed, it is the installer's responsibility to adjust the baffles to fit. Components include: starters, alternators, exhaust, etc.
- Mounting hardware is not included (nuts, bolts, screws, washers, retaining springs, and Tinnerman clips).

Features:
- Baffles are made of 6061-T6 aluminum with many improvements over the original baffling
- Improvements include: stainless steel brackets where needed, hard rivet construction, half inch backing plates on seals, and an improved fit to increase engine cooling
- All Airforms engine baffles are designed to replace the factory installations and are individually interchangeable • The baffle seals are fiberglass reinforced, high temperature silicone: black is standard. Orange or blue are available for an extra charge.

SEE OUR WEBSITE FOR AIRCRAFT ELIGIBILITY AND FOR INDIVIDUAL BAFFLES!

AP

CESSNA 150 (1964-70) KITS

Part No.	Metal Coat	Seal Color	Price
05-22470	Bare Coat	Black	$1,379.00
05-22471	Bare Coat	Blue	$1,461.00
05-22472	Bare Coat	Orange	$1,461.00
05-22474	Gray Powder Coat	Blue	$1,652.00
05-22475	Gray Powder Coat	Orange	$1,652.00

CESSNA 150 (1971-77) KITS

Part No.	Metal Coat	Seal Color	Price
05-22476	Bare Coat	Black	$1,379.00
05-22477	Bare Coat	Blue	$1,461.00
05-22478	Bare Coat	Orange	$1,461.00
05-22479	Gray Powder Coat	Black	$1,571.00
05-22480	Gray Powder Coat	Blue	$1,652.00
05-22481	Gray Powder Coat	Orange	$1,652.00

CESSNA 152 (1980-82) KITS

Part No.	Metal Coat	Seal Color	Price
05-22489	Bare Coat	Blue	$1,677.00
05-22490	Bare Coat	Orange	$1,677.00
05-22492	Gray Powder Coat	Blue	$1,939.00
05-22493	Gray Powder Coat	Orange	$1,939.00

CESSNA 170 KITS

Part No.	Metal Coat	Seal Color	Price
05-22495	Gray Powder Coat	Black	$2,202.00

CESSNA 172A KITS

Part No.	Metal Coat	Seal Color	Price
05-22497	Bare Coat	Blue	$1,706.00
05-22498	Bare Coat	Orange	$1,706.00
05-22501	Gray Powder Coat	Blue	$1,837.00
05-22502	Gray Powder Coat	Orange	$1,948.00

CESSNA 172A KITS

Part No.	Metal Coat	Seal Color	Price
05-22503	Bare Coat	Black	$1,596.00
05-22504	Bare Coat	Blue	$1,677.00
05-22505	Bare Coat	Orange	$1,677.00
05-22506	Gray Powder Coat	Black	$1,843.00
05-22507	Gray Powder Coat	Blue	$1,920.00
05-22508	Gray Powder Coat	Orange	$1,920.00

CESSNA 172M KITS

Part No.	Metal Coat	Seal Color	Price
05-22509	Bare Coat	Black	$1,793.00
05-22510	Bare Coat	Blue	$1,870.00
05-22511	Bare Coat	Orange	$1,870.00
05-22512	Gray Powder Coat	Black	$2,028.00
05-22513	Gray Powder Coat	Blue	$2,111.00
05-22514	Gray Powder Coat	Orange	$2,111.00

CESSNA 172N (1977-1979.5) KITS

Part No.	Metal Coat	Seal Color	Price
05-22516	Bare Coat	Blue	$1,949.00
05-22517	Bare Coat	Orange	$1,949.00
05-22518	Gray Powder Coat	Black	$2,116.00
05-22519	Gray Powder Coat	Blue	$2,200.00
05-22520	Gray Powder Coat	Orange	$2,200.00

CESSNA 172N (1979.5-1980) KITS

Part No.	Metal Coat	Seal Color	Price
05-22521	Bare Coat	Black	$1,870.00
05-22522	Bare Coat	Blue	$1,949.00
05-22523	Bare Coat	Orange	$1,949.00
05-22525	Gray Powder Coat	Blue	$2,200.00
05-22526	Gray Powder Coat	Orange	$2,200.00

CESSNA 172P KITS

Part No.	Metal Coat	Seal Color	Price
05-22527	Bare Coat	Black	$1,901.00
05-22528	Bare Coat	Blue	$1,870.00
05-22529	Bare Coat	Orange	$1,870.00
05-22530	Gray Powder Coat	Black	$2,028.00
05-22531	Gray Powder Coat	Blue	$2,111.00
05-22532	Gray Powder Coat	Orange	$2,111.00

CESSNA 172RG KITS

Part No.	Metal Coat	Seal Color	Price
05-22540	Bare Coat	Blue	$5,044.00
05-22541	Bare Coat	Orange	$5,044.00
05-22543	Gray Powder Coat	Blue	$5,326.00
05-22544	Gray Powder Coat	Orange	$5,326.00

CESSNA ENGINE BAFFLES

CESSNA 172S KITS

Part No.	Metal Coat	Seal Color	Price
05-22546	Powder Coat	Blue	$4,146.00
05-22547	Powder Coat	Orange	$4,146.00

CESSNA 177 (68) KITS

Part No.	Metal Coat	Seal Color	Price
05-22549	Bare Coat	Blue	$1,818.00
05-22550	Bare Coat	Orange	$1,818.00
05-22552	Gray Powder Coat	Blue	$2,057.00
05-22553	Gray Powder Coat	Orange	$2,057.00

CESSNA 177 (1973-74) KITS

Part No.	Metal Coat	Seal Color	Price
05-22555	Bare Coat	Blue	$2,716.00
05-22556	Bare Coat	Orange	$2,716.00
05-22558	Gray Powder Coat	Blue	$2,977.00
05-22559	Gray Powder Coat	Orange	$2,977.00

CESSNA 177RG KITS

Part No.	Metal Coat	Seal Color	Price
05-22561	Bare Coat	Blue	$2,534.00
05-22562	Bare Coat	Orange	$2,534.00
05-22563	Gray Powder Coat	Black	$2,722.00
05-22564	Gray Powder Coat	Blue	$2,805.00
05-22565	Gray Powder Coat	Orange	$2,805.00

CESSNA 180 (1956-81) / 182 (1958-73) KITS WITH OIL COOLERS

Part No.	Metal Coat	Seal Color	Oil Cooler	Price
05-22574	Bare Coat	Blue	Package A	$2,716.00
05-22575	Bare Coat	Orange	Package A	$2,716.00
05-22580	Bare Coat	Blue	Package B	$2,716.00
05-22581	Bare Coat	Orange	Package B	$2,716.00
05-22586	Bare Coat	Blue	Package C	$2,716.00
05-22587	Bare Coat	Orange	Package C	$2,716.00
05-22591	Bare Coat	Blue	Package D	$2,716.00
05-22592	Bare Coat	Orange	Package D	$2,716.00
05-22577	Gray Powder Coat	Blue	Package A	$2,977.00
05-22578	Gray Powder Coat	Orange	Package A	$2,977.00
05-22583	Gray Powder Coat	Blue	Package B	$2,977.00
05-22584	Gray Powder Coat	Orange	Package B	$2,977.00
05-22589	Gray Powder Coat	Blue	Package C	$2,977.00
05-22590	Gray Powder Coat	Orange	Package C	$2,977.00
05-22595	Gray Powder Coat	Blue	Package D	$2,977.00
05-22596	Gray Powder Coat	Orange	Package D	$2,977.00

CESSNA 182 (1974-76) KITS WITH OIL COOLERS

Part No.	Metal Coat	Seal Color	Oil Cooler	Price
05-22598	Bare Coat	Black	Package G	$3,419.00
05-22599	Bare Coat	Blue	Package G	$3,500.00
05-22601	Bare Coat	Orange	Package G	$3,500.00
05-22605	Bare Coat	Black	Package H	$3,419.00
05-22606	Bare Coat	Blue	Package H	$3,500.00
05-22607	Bare Coat	Orange	Package H	$3,500.00
05-22603	Gray Powder Coat	Blue	Package G	$3,790.00
05-22604	Gray Powder Coat	Orange	Package G	$3,790.00
05-22608	Gray Powder Coat	Black	Package H	$3,707.00
05-22609	Gray Powder Coat	Blue	Package H	$3,790.00
05-22610	Gray Powder Coat	Orange	Package H	$3,790.00

CESSNA 182 (1977-86) KITS WITH OIL COOLERS

Part No.	Metal Coat	Seal Color	Oil Cooler	Price
05-22613	Bare Coat	Black	Package G	$3,419.00
05-22614	Bare Coat	Blue	Package G	$3,500.00
05-22615	Bare Coat	Orange	Package G	$3,500.00
05-22619	Bare Coat	Black	Package H	$3,419.00
05-22620	Bare Coat	Blue	Package H	$3,500.00
05-22621	Bare Coat	Orange	Package H	$3,500.00
05-22616	Gray Powder Coat	Black	Package G	$3,707.00
05-22617	Gray Powder Coat	Blue	Package G	$3,790.00
05-22618	Gray Powder Coat	Orange	Package G	$3,790.00
05-22622	Gray Powder Coat	Black	Package H	$3,707.00
05-22623	Gray Powder Coat	Blue	Package H	$3,790.00
05-22624	Gray Powder Coat	Orange	Package H	$3,790.00

BEECHCRAFT BARON A55 / B55 ENGINE BAFFLE KITS

Part No.	Metal Coat	Seal Color	Price
05-22464	Bare Coat	Black	$2,366.00
05-22465	Bare Coat	Blue	$2,719.00
05-22466	Bare Coat	Orange	$2,719.00
05-22468	Gray Powder Coat	Blue	$2,959.00
05-22469	Gray Powder Coat	Orange	$2,959.00

BEECHCRAFT BARON A55 / B55 ENGINE BAFFLE KITS

Part No.	Metal Coat	Seal Color	Price
05-22452	Bare Coat	Black	$2,300.00
05-22453	Bare Coat	Blue	$2,381.00
05-22454	Bare Coat	Orange	$2,381.00
05-22455	Gray Powder Coat	Black	$2,540.00
05-22456	Gray Powder Coat	Blue	$2,622.00
05-22457	Gray Powder Coat	Orange	$2,622.00

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 150/152

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

PN 05-03703 PN 05-03706 PN 05-12799

Description	Part No.	Price
150/152 Strut Cuff Upper RH (SA-0522150-4)	05-03703	**$217.95**
150/152 Strut Cuff Upper LH (SA-0522150-3)	05-03702	**$213.95**
150/152 Strut Cuff Lower RH (SA-0421002-2)	05-03701	**$217.95**
150/152 Strut Cuff Lower LH (SA-0421002-1)	05-03699	**$210.95**
150/152 Aerobat Strut Cuff Upper RH (SA-0421002-3)	05-03706	**$248.95**
150/152 Aerobat Strut Cuff Upper LH (SA-0421002-4)	05-03707	**$203.95**
Set - 150/152 Aerobat Strut Cuff (SA-0421002-3476)	05-12799	**$791.00**
150/152 Aerobat Strut Cuff Lower RH (SA-0522150-6)	05-03704	**$203.95**
150/152 Aerobat Strut Cuff Lower LH (SA-0522150-7)	05-03705	**$203.95**

ELEVATORS & STABILIZERS

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

PN 05-03710 PN 05-03711 PN 05-03709

Description	Part No.	Price
150 Horizontal Stabilizer Tip 1959-'63 (SA-0430004-6)	05-03710	**$205.95**
150/152 Horizontal Stabilizer Tip 1964&on (SA-0430004-11)	05-03711	**$198.75**
150/152 Elevator Tips (left/right) 1964&on (SA-0430004-10)	05-03709	**$275.95**
150/152 Elevator Tips (left/right) 1959-'63 (SA-0430004-5)	05-03708	**$201.95**

GEAR LEG AND BRAKE FAIRINGS

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

PN 05-03731 PN 05-03732 PN 05-03734

Description	Part No.	Price
150/152 Upper Gear Leg 1971&on RH (SA-0441217-14)	05-03731	**$224.95**
150/152 Upper Gear Leg 1971&on LH (SA-0441217-15)	05-03732	**$234.95**
150/152 Right Brake Fairing 1974&on (SA-0441227-2)	05-03734	**$243.95**
150/152 Left Brake Fairing 1974&on (SA-0441227-1)	05-03733	**$243.95**

RUDDER & VERTICAL FIN CAPS

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

PN 05-03713 PN 05-03714 PN 05-03721

Description	Part No.	Price
150 Vertical Fin Cap 1964-1965 (SA-0430004-9)	05-03713	**$210.95**
150 Vertical Fin Cap (no beacon) 1966-'74 (SA-0431013-3)	05-03715	**$221.95**
150 Vertical Fin Cap (small beacon) 1966-'74 (SA-0431017-1)	05-03714	**$220.95**
150/152 Vertical Fin Cap (small beacon) 1975 & on (SA-0430011-1)	05-03716	**$220.95**
150 Rudder Top 1959-1963 (SA-0430004-2)	05-03717	**$206.95**
150 Rudder Top 1964-1965 (SA-0430004-8)	05-03718	**$217.95**
150/152 Rudder Top 1966-1974 (SA-0431013-1)	05-03719	**$220.95**
150 Rudder Top 1975&on (SA-0430011-2)	05-03720	**$220.95**
150 Rudder Bottom 1959-1965 (SA-0430004-1)	05-03721	**$216.95**
150 Rudder Bottom 1966&on (SA-0431005-1)	05-03722	**$275.95**

WING & DORSAL TIPS

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing-tip met metal. Here's the solution: replacement fiberglass wing-tips from Stene Aviation.

PN 05-12800 PN 05-03725 PN 05-03724

Description	Part No.	Price
150D/150E Dorsal Tip (SA-0430004-7)	05-12800	**$428.00**
150/152 Wing-Tip (small droop) LH (SA-0523565-29)	05-03726	**$631.00**
150/152 Wing-Tip (small droop) RH (SA-0523565-30)	05-03727	**$551.00**
150/152 Std. Small Wing Tip (SA-0430008-3)	05-03725	**$441.00**
150 Dorsal Fin 1959-'65 (SA-0430004-4)	05-03723	**$449.00**
150/152 Dorsal Tip 1966&on (SA-0431024-1)	05-03724	**$78.75**
150/152 Wing Tips, Small Droop (Set) (SA-0523565-2930)	05-12805	**$1,162.00**
150/152 Set Of Wing Tips For Led Lighting (SA-0523565-2930LED)	05-12806	**$983.00**
150/152 Wing Tip For Led Lighting LH (SA-0523565-29LED)	05-12807	**$524.00**

WHEEL PANTS

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

PN 05-03728 PN 05-03730 PN 05-12812

Description	Part No.	Price
150/152 Wheel Pant 1971-'74 RH (SA-0541223-16)	05-03728	**$700.00**
150/152 Wheel Pant 1971-'74 LH (SA-0541223-17)	05-03729	**$700.00**
150/152 Nose Wheel Pant 1975 &on (SA-0543079-3)	05-03730	**$710.00**
150/152 LH Wheel Pant (SA-0541203-1)	05-12811	**$663.00**
150/152 RH Wheel Pant (SA-0541203-2)	05-12812	**$663.00**
150/152 Nose Wheel Pant (SA-0543065-1)	05-12813	**$663.00**

AP

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 170/172/175

AP

ELEVATORS & STABILIZERS

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original high impact plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

PN 05-03744

PN 05-04743

PN 05-03740

Description	Part No.	Price
172 Horizontal Tip 1963 & on (SA-0532001-93)	05-03744	**$227.95**
172/175 Horizontal Tip Straight Tail (SA-0532001-61)	05-03743	**$172.75**
172 Elevator Tip 1963 & on LH (SA-0532001-94)	05-03742	**$311.00**
172 Elevator Tip 1963 & on RH (SA-0532001-100)	05-03741	**$248.95**
172/175 Elevator Tip Straight Tail (SA-0532001-62)	05-03740	**$245.95**

STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

PN 05-03739

PN 05-03738

PN 05-03736

Description	Part No.	Price
172 Strut Cuff Upper 1973 & on RH (SA-0523047-2)	05-03739	**$224.95**
172 Strut Cuff Upper 1973 & on LH (SA-0523047-1)	05-03738	**$223.95**
172 Strut Cuff Lower (all models) RH (SA-0522150-2)	05-03736	**$176.75**
172 Strut Cuff Lower (all models) LH (SA-0522150-1)	05-03735	**$174.95**

GEAR LEG AND BRAKE FAIRINGS

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

PN 05-03767

PN 05-03768

PN 05-12872

Description	Part No.	Price
172 Upper Gear Leg 1971&on RH (SA-1741005-240)	05-03767	**$268.95**
172 Upper Gear Leg 1971&on LH (SA-1741005-239)	05-03766	**$274.95**
172 Brake Fairing 1974& on LH (SA-0541224-1)	05-03768	**$274.95**
172 Brake Fairing 1974&on RH (SA-0541224-2)	05-03769	**$272.95**
172 Upper Gear Leg Fairing LH 172R, 172S (SA-1741005-59)	05-12872	**$330.00**
172 Upper Gear Leg Fairing RH 172R, 172S (SA-1741005-60)	05-12873	**$344.00**

WHEEL PANTS

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

PN 05-03728

PN 05-03730

PN 05-03730

Description	Part No.	Price
172 Wheel Pant 1974&on RH (SA-0541223-16)	05-03728	**$700.00**
172 Wheel Pant 1974&on LH (SA-0541223-17)	05-03729	**$700.00**
172 Nose Wheel Pant 1974 & on (SA-0543079-3)	05-03730	**$710.00**

RUDDER & VERTICAL FIN CAPS

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

PN 05-03745

PN 05-03752

PN 05-03756

Description	Part No.	Price
172 Vertical Fin (no beacon) 1956-'59 (SA-0531001-36)	05-03745	**$232.95**
172 Vertical Fin (large beacon) 1956-'59 (SA-0531004-3)	05-03746	**$234.95**
172 Vertical Fin (no beacon) 1960-'68 (SA-0531006-33)	05-03747	**$228.95**
172 Rudder Top 1969-75 (SA-0533009-1)	05-03752	**$317.00**
172 Vertical Fin (small beacon) 1960-'68 (SA-0531009-1)	05-03748	**$230.95**
172 Vertical Fin (small beacon) 1969-'75 (SA-0531013-1)	05-03749	**$303.00**
172 Rudder Top 1976-'85 (SA-0531006-112)	05-03753	**$237.95**
172 Rudder Top 1997&on (SA-0533155-2)	05-03754	**$288.95**
172 Vertical Fin (small beacon) 1976&on (SA-0531003-1)	05-03750	**$299.95**
172 Rudder Top 1960-'68 (SA-0531006-34)	05-03751	**$240.95**
172 Rudder Bottom 1960-'68 (SA-0531006-35)	05-03756	**$223.95**
172/175 Rudder Bottom Straight Tail (SA-0531104)	05-03755	**$219.95**
172 Rudder Bottom 1969-'97 (SA-0531006-80 172 Vertical Fin (small beacon) (SA-0531033-6)	05-03757	**$223.95**
172 Vertical Fin (small beacon) (SA-0531033-6)	05-12809	**$228.95**
172 Rudder Bottom (SA-0533155-1)	05-12810	**$224.95**

WING & DORSAL TIPS

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

PN 05-03726

PN 05-03759

PN 05-03770

Description	Part No.	Price
172 Wing Tip (small droop) 1968-'72 LH (SA-0523565-29)	05-03726	**$631.00**
172 Wing Tip (small droop) 1968-'72 RH (SA-0523565-30)	05-03727	**$551.00**
172 Wing Tip (small droop) 1973&on LH (SA-0723200-5)	05-03762	**$638.00**
172 Wing Tip (small droop) 1973&on RH (SA-0723200-6)	05-03764	**$507.00**
172 Mid-Dorsal (SA-0531012-2)	05-03759	**$234.95**
172 Dorsal Tip 1972&on (SA-0531020-1)	05-03760	**$86.75**
Cable Covers (SA-0530011-2)	05-03770	**$107.75**

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 177/180/185/188

CESSNA FIBERGLASS REPLACEMENT PARTS FOR 177

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

RUDDER & VERTICAL TOPS

Cessna fiberglass replacement parts for 177 rudder and vertical tops

PN 05-03841

PN 05-03840

Description	Part No.	Price
177 Rudder Top (All) (SA-1733009-2)	05-03841	**$246.95**
177 Vertical Top (All) (SA-1731009-4)	05-03840	**$231.95**

GEAR LEG FAIRINGS

Cessna fiberglass replacement parts for 177 gear leg fairing.

PN 05-03846

PN 05-03848

PN 05-03849

Description	Part No.	Price
177 Upper Gear Leg (All) RH (SA-1741005-44)	05-03846	**$246.95**
177 Upper Gear Leg (All) LH (SA-1741005-43)	05-03845	**$246.95**
177 Brake Fairings 1972-'74 RH (SA-0741634-14)	05-03848	**$254.95**
177 Brake Fairings 1972-'74 LH (SA-0741634-13)	05-03847	**$254.95**
177 Brake Fairings 1975&on RH (SA-1741027-2)	05-03849	**$254.95**
177 Brake Fairings 1975&on LH (SA-1741027-1)	05-03850	**$254.95**

CESSNA FIBERGLASS REPLACEMENT PARTS FOR 180/185

ELEVATORS & STABILIZERS

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

LH/RH Horizontal Tip (SA-0732613-1).....P/N 05-03779 .....**$191.80**

GEAR LEG AND BRAKE FAIRINGS

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

PN 05-03804

PN 05-03805

Description	Part No.	Price
180/185 Brake Fairing RH(SA-0741059-2)	05-03804	**$220.95**
180/185 Brake Fairing LH(SA-0741059-1)	05-03805	**$242.95**

180/185 CONT. STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

PN 05-03774

PN 05-03773

PN 05-03772

Description	Part No.	Price
180 Strut Cuff Upper RH (SA-0723605-4)	05-03774	**$184.75**
180 Strut Cuff Upper LH (SA-0723605-3)	05-03773	**$184.75**
180 Strut Cuff Lower RH (SA-0723605-2)	05-03772	**$177.75**
180 Strut Cuff Lower LH (SA-0723605-1)	05-03771	**$177.75**

RUDDER & VERTICAL FIN CAPS

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

PN 05-03781

PN 05-03787

PN 05-03790

Description	Part No.	Price
180/182/188 Vertical Top No Beacon (SA-0731000-200)	05-03781	**$295.95**
180/182/188 Vertical Top Small Beacon (SA-0731019-1)	05-03782	**$232.95**
180/185 Vertical Top Small Beacon (SA-0731019-2)	05-03787	**$238.95**
185 Vertical Top No Beacon (SA-0742025-1)	05-03788	**$227.95**
180/182 Vertical Top Large Beacon (SA-0700031-2)	05-03789	**$227.95**
185 Vertical Top Large Beacon (SA-0731015-1)	05-03790	**$225.95**

WING & DORSAL TIPS

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

PN 05-03797

PN 05-03727

PN 05-03764

Description	Part No.	Price
180 Wing Tip (staight tip)- 1955-'67 (SA-0723615-200)	05-03797	**$435.00**
180/185 Wing Tip (small droop) 1969-'72 LH(SA-0523565-29)	05-03726	**$631.00**
180/185 Wing Tip (small droop) 1969-'72 RH(SA-0523565-30)	05-03727	**$551.00**
180/185 Wing Tip (small droop) 1973&on LH(SA-0723200-5)	05-03762	**$638.00**
172 RH Wing Tip (small droop) 1973&on (SA-0723200-6)	05-03764	**$507.00**

AP

CESSNA FIBERGLASS REPLACEMENT PARTS

CESSNA 182

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

AP

ELEVATORS & STABILIZERS

PN 05-03777 PN 05-03779 PN 05-12827

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

Description	Part No.	Price
182 Elevator Tip 1965&on LH (SA-1234608-3)	05-03777	**$245.95**
182 Elevator Tip 1965&on RH (SA-1234608-4)	05-03778	**$246.95**
LH/RH 182 Horizontal Tip 1956-'59 (SA-0732613-1)	05-03779	**$191.80**
LH/RH 182 Horizontal Tip 1965&on (SA-1232604-1)	05-03780	**$242.95**
LH/RH 182 Horizontal Tip (SA-1232604-2)	05-12850	**$196.99**
LH/RH 182 Horizontal Tip (SA-0732613-3)	05-12827	**$241.95**

PN 05-03774 PN 05-03776 PN 05-03772

STRUT CUFFS

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

Description	Part No.	Price
182 Strut Cuff Upper RH (SA-0723605-4)	05-03774	**$184.75**
182 Strut Cuff Upper LH (SA-0723605-3)	05-03773	**$184.75**
182 Strut Cuff Lower 1962&on RH (SA-0723612-4)	05-03776	**$184.75**
182 Strut Cuff Lower 1962&on LH (SA-0723612-3)	05-03775	**$184.75**
LH 180 Strut Cuff Lower (SA-0723605-1)	05-03771	**$177.75**
RH 180 Strut Cuff Lower (SA-0723605-2)	05-03772	**$177.75**

RUDDER & VERTICAL FIN CAPS

PN 05-03786 PN 05-12846 PN 05-12848

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

Description	Part No.	Price
205/206/207/210 Vertical Fin (small beacon) 1964 - (SA-1231064-1)	05-03786	**$296.95**
206/207 Vertical Fin (small beacon) 1967 - (SA-0731606-3)	05-03785	**$234.95**
205/206/207/210 Rudder Top 1964 - (SA-0731606-9)	05-03793	**$241.95**
206/207 Rudder Top 1967 - (SA-0731606-6)	05-03792	**$241.95**
SA-1227402-3456SP	05-12846	**$1,033.00**
SA-1227402-3456	05-12845	**$225.95**
182 Rudder Top (SA-1231001-2)1976 & on	05-12847	**$225.95**
182 Vertical Top (SA-1231059-1) 182P	05-12848	**$234.95**
182 Vertical Fin (SA-1231064-10)182T, T182T	05-12849	**$225.95**

182 TAILCONE

Replace your wore and cracked tailcone with a stronger than factory original fiberglass tailcone from Stene Aviation.
182 TailCone 1962&on (SA-1212010-15)
P/N 05-03794 .....**$601.00**

GEAR LEG AND BRAKE FAIRINGS

PN 05-03799 PN 05-03806 PN 05-12828

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

Description	Part No.	Price
182 Upper Gear Leg 1972-`75 RH (SA-1741005-200)	05-03799	**$311.00**
182 Upper Gear Leg 1972-`75 LH (SA-1741005-201)	05-03801	**$305.00**
182 Upper Gear Leg Fairing 1976&on RH (SA-1741052-200)	05-03802	**$311.00**
182 Upper Gear Leg 1976&on LH (SA-1741052-201)	05-03803	**$311.00**
182 Brake Fairing 1972-`74 RH (SA-0741634-18)	05-03806	**$238.95**
182 Brake Fairing 1972-`74 LH (SA-0741634-19)	05-03807	**$239.95**
182 Brake Fairing 1975-`78 RH (SA-0741634-10)	05-03808	**$267.95**
182 Brake Fairing 1975-`78 LH (SA-0741634-11)	05-03809	**$267.95**
182 Upper Gear Leg RH (SA-0741052-12)	05-12829	**$238.95**
182 Upper Gear Leg LH (SA-0741052-11)	05-12828	**$238.95**

WING & DORSAL TIPS

PN 05-03726 PN 05-03762 PN 05-03797

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

Description	Part No.	Price
182 Wing Tip (small droop) 1969-'72 LH (SA-0523565-29)	05-03726	**$631.00**
182 Wing Tip (small droop) 1969-'72 RH (SA-0523565-30)	05-03727	**$551.00**
182 Wing Tip (small droop) 1973&on LH (SA-0723200-5)	05-03762	**$638.00**
182 Wing Tip (small droop) 1973&on RH (SA-0723200-6)	05-03764	**$507.00**
182 Wing Tip (straight tip)- 1955-'67 (SA-0723615-200)	05-03797	**$435.00**

WHEEL PANTS

PN 05-03728 PN 05-12830 PN 05-12834

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

Description	Part No.	Price
182 Wheel Pant 1975&on RH (SA-0541223-16)	05-03728	**$700.00**
182 Wheel Pant 1975&on LH (SA-0541223-17)	05-03729	**$700.00**
182 Nose Wheel Pant 1975&on (SA-0543079-3)	05-03730	**$710.00**
180K/A185F LH Wheel Pant (SA-0741070-1)	05-12830	**$668.00**
180K/A185F RH Wheel Pant (SA-0741070-2)	05-12831	**$668.00**
182T/T182T LH Wheel Pant (SA-0741647-1)	05-12832	**$1,557.00**
182T/T182T RH Wheel Pant (SA-0741647-2)	05-12833	**$1,557.00**
182T/T182T Nose Wheel Pant (SA-0743050-14)	05-12834	**$1,058.00**

CESSNA 205/206/207/210

What Makes These Composite Parts Such An Excellent Value?

- Stronger than factory originals with no weight increase.
- Easily repaired with locally available fiberglass kits if ever damaged.
- Exact replacements of original equipment means easy installation.
- Money back guarantee if not completely satisfied!

ELEVATORS & STABILIZERS

PN 05-03777

PN 05-03780

PN 05-03779

Here are some of our most popular items. These tips take a good deal of stress in just normal flying circumstances. They're also frequent victims of ramp rash. The original plastic simply can't stand up to the task as well as fiberglass replacements from Stene Aviation. Plus, if these parts ever do withstand damage, they're easily repaired with readily available fiberglass repair kits from your local automotive parts store.

Description	Part No.	Price
206/207 Elevator Tips 1965-`67 LH (SA-1234608-3)	05-03777	**$245.95**
206/207 Elevator Tips 1965-`67 RH (SA-1234608-4)	05-03778	**$246.95**
206/207 Horizontal Tip 1967 & on (SA-1232012-1)	05-03833	**$140.75**
206/207 Horizontal Tip 1965-1967 (SA-1232604-1)	05-03780	**$242.95**
210 (1967 & on) Elevator Tips LH (SA-1234640-1 left hand)	05-03831	**$275.95**
210 (1967 & on) Elevator Tips RH (SA-1234640-2 right hand)	05-03832	**$270.95**
210 (1967 & on) Horizontal Tip (SA-1232012-1)	05-03833	**$140.75**
LH/RH 182 Horizontal Tip (SA-1232604-2)	05-12850	**$196.99**
LH/RH Horizontal Tips (SA-1232616-1)	05-12851	**$134.90**
LH/RH Horizontal Tip 1956-'59 (SA-0732613-1)1963 - 64	05-03779	**$191.80**

WING TIPS

PN 05-03726

PN 05-03764

PN 05-03796

Wing tips are a common victim of hanger and ramp rash. Maybe you thought the plane was going to clear those doors as you wheeled it back into the hanger...the first indication that you were wrong was that grating sound as the wing tip met metal. Here's the solution: replacement fiberglass wing tips from Stene Aviation.

Description	Part No.	Price
206 Wing Tip (small droop) 1969-'72 LH (SA-0523565-29)	05-03726	**$631.00**
207 Wing Tip (small droop) 1969&on LH (SA-0523565-29)	05-03726	**$631.00**
206 Wing Tip (small droop) 1973&on LH (SA-0723200-5)	05-03762	**$638.00**
206 Wing Tip (small droop) 1973&on RH(SA-0723200-6)	05-03764	**$507.00**
210 Wing Tip 1971&on LH(SA-1221111-203)	05-03835	**$823.00**
210 Wing Tip 1971&on RH(SA-1221111-202)	05-03834	**$823.00**
Wing Tip Large Conical Tip LH (SA-1223000-7)	05-03795	**$627.00**
Wing Tip Large Conical Tip RH (SA-1223000-8)	05-03796	**$627.00**

RUDDER & VERTICAL FIN CAPS

PN 05-03786

PN 05-03792

PN 05-12852

These parts are a snap to replace on most planes. Please note, indicate if you have a straight tail or a swept tail. It is also important to let us know if your fin cap needs to accommodate a strobe or beacon, and if so, if the light is front-mounted or center-mounted.

Description	Part No.	Price
205/206/207 Vertical Fin (small beacon) 1964-'67 and 1976&on (SA-1231064-3)	05-03786	**$296.95**
206/207 Vertical Fin (small beacon) 1967-'75 (SA-0731606-3)	05-03785	**$234.95**
206/207 Rudder Top 1967-'75 (SA-0731606-6)	05-03792	**$241.95**
205/206/207 Rudder Top 1964-'66 & 1976&on (SA-0731606-9)	05-03793	**$241.95**
206 Rudder Top (SA-1233736-1)	05-12852	**$369.00**

GEAR LEG AND BRAKE FAIRINGS

PN 05-03813

PN 05-03836

PN 05-12855

These are excellent items for replacing worn plastic originals. Your fiberglass replacements will be more durable with an improved finish over the original plastics.

Description	Part No.	Price
207 Right Upper Gear Leg 1969&on(SA-1241217-2)	05-03813	**$255.95**
207 Left Upper Gear Leg 1969&on(SA-1241217-1)	05-03812	**$255.95**
206 Right Brake Fairing (Heavy Duty)(SA-1241232-2)	05-03837	**$260.95**
206 Left Brake Fairing (Heavy Duty)(SA-1241232-1)	05-03836	**$267.95**
207 Left Brake Fairing (SA-1241228-1)	05-12854	**$260.95**
207 Right Brake Fairing (SA-1241228-2)	05-12855	**$260.95**

STRUT CUFFS

PN 05-03817

PN 05-03829

PN 05-12844

Here's an unbeatable item for renovating your Cessna; a set of replacement strut cuffs. Order just one cuff to replace a damaged original, or get a set of four for a complete replacement.

Description	Part No.	Price
210 Strut Cuff Upper Right 1960-'63(SA-1227002-4)	05-03817	**$216.95**
210 Strut Cuff Upper Left 1960-'63(SA-1227002-5)	05-03818	**$246.95**
206/207 Strut Cuff Upper Right 1964-'71 (SA-1227002-10)	05-03821	**$230.95**
206/207 Strut Cuff Upper Left 1964-'71 (SA-1227002-11)	05-03822	**$230.95**
206/207 Strut Cuff Upper Right 1972 & on (SA-1227005-6)	05-03826	**$300.95**
206/207 Strut Cuff Upper Left 1972 & on (SA-1227005-5)	05-03825	**$292.95**
210 Strut Cuff Lower Right 1960&'61(SA-1227002-2)	05-03815	**$216.95**
210 Strut Cuff Lower Right 1962&'63(SA-1227402-6)	05-03820	**$217.95**
210 Strut Cuff Lower Left 1962&'63(SA-1227402-5)	05-03819	**$270.95**
205 Strut Cuff Lower Right 1963&'64(SA-1227401-4)	05-03829	**$216.95**
205 Strut Cuff Lower Left 1963&'64(SA-1227401-5)	05-03830	**$217.95**
206 Strut Cuff Lower Right 1964-'71(SA-1227402-4)	05-03824	**$230.95**
206 Strut Cuff Lower Left 1964-'71(SA-1227402-3)	05-03823	**$230.95**
206/207 Strut Cuff Lower Right 1972&on (SA-1227010-2)	05-03828	**$296.95**
206/207 Strut Cuff Lower Left 1972&on (SA-1227010-1)	05-03827	**$298.95**
210 Strut Cuff Upper 1960-'63 RH(SA-1227002-4)	05-03817	**$216.95**
210 Strut Cuff Upper 1960-'63 LH(SA-1227002-5)	05-03818	**$246.95**
210 Strut Cuff Lower 1960&'61 RH(SA-1227002-2)	05-03815	**$216.95**
207 LH Upper Strut Cuff (SA-1227011-5) 207, T207, 207A, T207A	05-12838	**$291.95**
210 LH Strut Cuff Lower 210D, 210E (SA-1227402-1) 210D, 210E	05-12843	**$215.95**
210 RH Strut Cuff Lower (SA-1227402-2) 210D, 210E	05-12844	**$215.95**

WHEEL PANTS

PN 05-03777

PN 05-03780

PN 05-03779

Replace your original plastic wheel pants with high quality and durable fiberglass replacements. All wheel pants come with a 2" access plug for checking tire pressure. Original hardware is required for mounting.

Description	Part No.	Price
206 Wheel Pant 1975&on RH (SA-0541223-16)	05-03728	**$700.00**
206 Wheel Pant 1975&on LH (SA-0541223-17)	05-03729	**$700.00**
206 Nose Wheel Pant 1975&on (SA-0543079-3)	05-03730	**$710.00**
206 Oversize Wheel Pant (SA-1234045-1)	05-12853	**$888.00**
206 LH Oversize Wheel Pant (SA-1241229-1)	05-12856	**$888.00**
206 RH Oversize Wheel Pant (SA-1241229-2)	05-12857	**$918.00**
206 Oversize Wheel Pant (SA-1243045-12)	05-12858	**$924.00**

Piper Throttle Controls

Model	Serial Number	P/N	Our P/N	Price
PA20,PA20S,PA20-115	20-1 thru 20-933	455-139	05-01743	$681.00
PA20S-115,PA20-135	20-934 thru 20-1121	455-139	05-01743	$681.00
PA20S-135	20-934 thru 20-1121	455-139	05-01743	$681.00
PA22 (125hp)	22-1 thru 22-533	455-139	05-01743	$681.00
PA22-135	22-534 thru 22-2377	455-139	05-01743	$681.00
PA22-135	22-2379 thru 22-2424	455-139	05-01743	$681.00
PA22-135,PA22S-135	22-2378, 22-2425 thru 22-3217	12693-04	05-02209	$777.00
PA22-135,PA22S-135	22-3219 thru 22-3386	12693-04	05-02209	$777.00
PA22-150,PA22S-150	22-2378, 22-2425 thru 22-7642	12693-04	05-02209	$777.00
PA22-160,PA22S-160	22-5139, 22-5603 thru 22-7642	12693-04	05-02209	$777.00
PA22-108	22-8000 and On	12693-04	05-02209	$777.00
PA28-140	28-20002 thru 28-24999	12693-04	05-02209	$777.00
PA28-140	28-25000 thru 28-26956	455-353	-	-
PA28-140	28-7125001 thru 28-7725290	455-353	-	-
PA28-150	28-1 thru 28-4377	12693-04	05-02209	$777.00
PA28-151	28-7415001 thru 28-7715314	455-350	05-01745	$293.95
PA28-160	28-1 thru 28-4377	12693-04	05-02209	$777.00
PA28-161	28-7716002 thru 28-8616057	455-350	05-01745	$293.95
PA28-161	2816001 thru 2816110 (Less 2816066)	455-350	05-01745	$293.95
PA28-161 Cadet	2841001 and On	455-350	05-01745	$293.95
PA28-180	28-671 thru 28-4377	12693-04	05-02209	$777.00
PA28-180	28-4378 thru 28-5152	455-333	05-01746	$521.00
PA28-180	28-5153 thru 28-5869	455-350	05-01745	$293.95
PA28-180	28-7105001 thru 28-7505261	455-350	05-01745	$293.95
PA28R-180	28R-30005 thru 28R-30481	455-322	05-01747	$546.00
PA28R-180	28R-30483 thru 28R-31279	455-322	05-01747	$546.00
PA28R-180	28R-7130001 thru 28R-7130019	455-322	05-01747	$546.00
PA28-181	28-7690001 thru 28-8290174	455-350	05-01745	$293.95
PA28-181	28-8390001 and On	455-350	05-01745	$293.95
PA28-201T	28-7921001 thru 28-7921095	455-322	05-01747	$546.00
PA28R-200	28R-30482,28R-35001 thru 28R-35830	455-322	05-01747	$546.00
PA28R-200	28R-7135001 thru 28R-7635545	455-322	05-01747	$546.00
PA28R-201	28R-7737002 thru 28R-7837317	455-322	05-01747	$546.00
PA28R-201	2837001 thru 2837061	455-322	05-01747	$546.00
PA28R-201T	28R-7703002 thru 28R-7803372	455-322	05-01747	$546.00
PA28R-201T	2803001 thru 2803015	455-322	05-01747	$546.00
PA28RT-201	28R-7918001 thru 28R-8018116	455-322	05-01747	$546.00
PA28RT-201	28R-8118001 and On	455-322	05-01747	$546.00
PA28RT-201T	28R-7931001 thru 28R-8031188	455-322	05-01747	$546.00
PA28RT-201T	28R-8131001 and On	455-322	05-01747	$546.00
PA28-235	28-10003 thru 28-11039	12693-04	05-02209	$777.00
PA28-235	28-11040 thru 28-11393	455-333	05-01746	$521.00
PA28-235	28-7110001 thru 28-7210033	455-333	05-01746	$521.00
PA28-235	28-7310001 thru 28-7710089	455-333	05-01746	$521.00
PA28-236	28-7911001 thru 28-8211060	455-333	05-01746	$521.00
PA28-236	28-8311001 and On	455-333	05-01746	$521.00
PA32-260	32-1111 thru 32-1320	455-360	05-01748	$329.00
PA32-260	32-7100001 thru 32-7800008	455-360	05-01748	$329.00
PA32-300	32-40000 thru 32-40565	69530-02	-	-
PA32-300	32-40566 thru 32-41018	455-358	05-01749	$412.00
PA32-300	32-7140001 thru 32-7940282	455-358	05-01749	$412.00
PA32-301	32-8006001 thru 32-8406020	455-358	05-01749	$412.00
PA32-301	32-8506001 and On	455-358	05-01749	$412.00
PA32-301T	32-8024001 thru 32-8424002	455-344	05-01750	$299.95
PA32-301T	32-8524001 and On	455-344	05-01750	$299.95
PA32R-301T	32R-8029001 thru 32R-8229078	455-360	05-01748	$329.00
PA32R-301T	32R-8329001 and On	455-360	05-01748	$329.00
PA32RT-300T	32R-7887001 thru 32R-7987146	455-360	05-01748	$329.00

Piper Mixture Controls

Model	Serial No.	P/N	Our P/N	Price
PA-18,PA-8S,PA-18"105"	All	600-72	05-01254	$336.00
PA18S"105",PA-18A,PA-18"125"	All	600-72	05-01254	$336.00
PA-18S"125",PA-18AS"125"	All	600-72	05-01254	$336.00
PA-18"135", PA-18S"135"	All	600-72	05-01254	$336.00
PA-18A"135", PA-18AS"135"	All	600-72	05-01254	$336.00
L-21A, L-21B, PA-18"150"	All	600-72	05-01254	$336.00
PA-18A"150", PA-18S"150"	All	600-72	05-01254	$336.00
PA-18AS"150"	All	600-72	05-01254	$336.00
PA-19, PA-19S, L-18C	All	600-72	05-01254	$336.00
PA-20, PA-20S, PA-20-115	All	600-72	05-01254	$336.00
PA-20S-115,PA-20-135,PA-20S-135	All	600-72	05-01254	$336.00
PA-22, PA-22-108, PA-22-135	All	600-72	05-01254	$336.00
PA-22S-135,PA-22-150,PA-22S-150	All	600-72	05-01254	$336.00
PA-22-160, PA-22S-160	All	600-72	05-01254	$336.00
PA-24-180	All	600-72	05-01254	$336.00
PA-24-250	All	600-72	05-01254	$336.00
PA-24-260	All with Carbureted Engine	600-72	05-01254	$336.00
PA24-400	26-2 thru 26-148	22633-04	05-01757	$1,107.00
PA-28-140	28-20002 thru 28-24999	600-72	05-01254	$336.00
PA-28-150, PA-28-160	28-1 thru 28-4377	600-72	05-01254	$336.00
PA-28S-160	28-1 thru 28-1760	600-72	05-01254	$336.00
PA-28-180, PA-28S-180	28-671 thru 28-4377	600-72	05-01254	$336.00
PA-28-235	28-10003 thru 28-11038	600-72	05-01254	$336.00
PA28-140	28-25000 thru 28-26956	455-352	05-01755	$456.00
PA28-140	28-7125001thru28-7725290	455-352	05-01755	$456.00
PA28-151	28-7415001thru28-7715314	455-352	05-01755	$456.00
PA28-161	28-7716002 thru 28-8616057	455-352	05-01755	$456.00
PA28-161	2816001 thru 2816110 (Less2816066)	455-352	05-01755	$456.00
PA28-161 Cadet	2841001 and On	455-352	05-01755	$456.00
PA28-180	28-4378 thru 28-5152	455-332	05-02212	$330.00
PA28-180	28-5153 thru 28-5869	455-352	05-01755	$456.00
PA28-180	28-7105001 thru 28-7505261	455-352	05-01755	$456.00
PA28R-180	28R-30005 thru 28R-30481	455-322	05-01747	$546.00
PA28R-180	28R-30483 thru 28R-31279	455-322	05-01755	$456.00
PA28R-180	28R-7130001 thru 28R-7130019	455-322	05-01755	$456.00
PA28-181	28-7690001 thru 28-8290174	455-352	05-01755	$456.00
PA28-181	28-8390001 and On	455-352	05-01755	$456.00
PA28-201T	28-7921001 thru 28-7921095	455-361	05-02213	$295.95
PA28R-200	28R-30482,28R-35001thru28R-35830	455-322	05-01755	$456.00
PA28R-200	28R-7135001 thru 28R-7635545	455-322	05-01755	$456.00
PA28R-201	28R-7737002 thru 28R-7837317	455-322	05-01755	$456.00
PA28R-201	2837001 thru 2837061	455-322	05-01755	$456.00
PA28R-201T	28R-7703002 thru 28R-7803372	455-361	05-02213	$295.95
PA28R-201T	2803001 thru 2803015	455-361	05-02213	$295.95
PA28RT-201	28R-7918001 thru 28R-8018116	455-322	05-01757	$1,107.00
PA28RT-201	28R-8118001 and On	455-322	05-01757	$1,107.00
PA28RT-201T	28R-7931001 thru 28R-8031188	455-361	05-02213	$295.95
PA28RT-201T	28R-8131001 and On	455-361	05-02213	$295.95
PA28-235	28-11040 thru 28-11393	455-332	05-02212	$330.00
PA28-235	28-7110001 thru 28-7210033	455-332	05-02212	$330.00
PA28-235	28-7310001 thru 28-7710089	455-332	05-02212	$330.00
PA28-236	28-7911001 thru 28-8211060	455-332	05-02212	$330.00
PA28-236	28-8311001 and On	455-332	05-02212	$330.00
PA32-260	32-1111 thru 32-1320	455-361	05-02213	$295.95
PA32-260	32-7100001 thru 32-7800008	455-361	05-02213	$295.95
PA32-301T	32-8024001 thru 32-8424002	455-344	05-01750	$299.95
PA32-301T	32-8524001 and On	455-344	05-01750	$299.95
PA32R-301T	32R-8029001 thru 32R-8229078	455-360	05-01748	$329.00
PA32R-301T	32R-8329001 and On	455-360	05-01748	$329.00
PA32RT-300T	32R-7887001 thru 32R-7987146	455-360	05-01748	$329.00

Piper Prop Controls

Model	Serial Number	P/N	Our P/N	Price
PA24-250	24-105 thru 24-2174	455-184	05-02214	$715.00
PA24-250	24-2176 thru 24-2298	455-184	05-02214	$715.00
PA24-250	24-2175, 24-2299 thru 24-3687	455-252	05-02215	$768.00
PA24-260	24-3642, 24-4000 thru 24-4782	455-252	05-02215	$768.00
PA24-260	24-4784 thru 24-4803	455-252	05-02215	$768.00
PA28R-180	28R-30005 thru 28R-30481	455-322	05-01747	$546.00
PA28R-180	28R-30483 thru 28R-31279	455-322	05-01747	$546.00
PA28R-180	28R-7130001 thru 28R-7130019	455-322	05-01747	$546.00
PA28-201T	28-7921001 thru 28-7921095	455-322	05-01747	$546.00
PA28R-200	28R-30482	455-322	05-01747	$546.00
PA28R-200	28R-35001 thru 28R-35830	455-322	05-01747	$546.00
PA28R-200	28R-7135001 thru 28R-7635545	455-322	05-01747	$546.00
PA28R-201	28R-7737002 thru 28R-7837317	455-322	05-01747	$546.00
PA28R-201	2837001 thru 2837061	455-322	05-01747	$546.00
PA28R-201T	28R-7703002 thru 28R-7803372	455-322	05-01747	$546.00
PA28R-201T	2803001 thru 2803015	455-322	05-01747	$546.00
PA28RT-201	28R-7918001 thru 28R-8018116	455-322	05-01747	$546.00
PA28RT-201	28R-8118001 and On	455-322	05-01747	$546.00
PA28RT-201T	28R-7931001 thru 28R-8031188	455-322	05-01747	$546.00
PA28RT-201T	28R-8131001 and On	455-322	05-01747	$546.00
PA28-235	28-7310001 thru 28-7710089	455-344	05-01750	$299.95
PA28-236	28-7911001 thru 28-8211060	455-344	05-01750	$299.95
PA28-236	28-8311001 and On	455-344	05-01750	$299.95
PA32-300	32-40000 thru 32-40565	65451-04	05-02216	$758.00

Throttle Controls for Bellanca Viking Aircraft

P/N S191783-18

Model	Serial Number	Our P/N	Price
17-30A	30263 & On, and aircraft w/S/N prefix: "75-"	05-01763	$856.00
17-31A	73-32-128 & On, and aircraft w/ S/N prefix "75-"	05-01763	$856.00
17-31ATC	73-31067 & On, and aircraft w/S/N prefix "75-"	05-01763	$856.00

Throttle Controls for Grumman Aircraft

Model	Serial Number	P/N	Our P/N	Price
AA-1	AA1-0433 and On	507005-1	05-01760	$794.00
AA-1A	AA1A-0001 and On	507005-1	05-01760	$794.00
AA-1B	AA1B-0001 and On	507005-1	05-01760	$794.00
AA-1C	AA1B-0601	507005-1	05-01760	$794.00
AA-1C	AA1C-0001 and On	507005-1	05-01760	$794.00
AA-5	AA5-0001 and On	507005-2	05-01761	$833.00
AA-5A	AA5A-0283 and On	507005-2	05-01761	$833.00
AA-5B	AA5B-0001 and On	507005-3	05-01762	$838.00

MCFARLANE THROTTLE CONTROLS FOR PIPER AIRCRAFT

Description	Part Number	Price
Mcfarlane MC12694-000 Control Throttle	05-26640	$675.00
Mcfarlane MC12694-002 Control Throttle	05-26641	$663.00
Mcfarlane MC12694-003 Control Throttle	05-26642	$634.00

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

KNOTS 2U PIPER REPLACEMENT PARTS

P/N 05-07038

P/N 05-07044

P/N 05-07001

Hand laid fiberglass replaces the OEM plastic, from Tail Cone to Nose Fairing we can help you find the right carbon fiber / kevlar FAA/PMA approved replacement aircraft parts for your aircraft.

PA-23

MFR PN	Description	Part No.	Price
GF16109-00	K2U Piper PA-23Tip Stabilator	05-07001	**$247.95**
GF32464-00	K2U Piper PA-23 Faring Left Wing Root	05-07037	**$255.95**
GF32464-01	K2U Piper PA-23 Faring Right Wing Root	05-07038	**$255.95**
GF32466-00	K2U Piper PA-23 Faring Nacelle Left Inboard	05-07039	**$255.95**
GF32466-01	K2U Piper PA-23 Faring Nacelle Right Inboard	05-07041	**$255.95**
GF32471-00	K2U Piper PA-23 Faring Nacelle Left Outboard	05-07042	**$255.95**
GF32471-01	K2U Piper PA-23 Faring Nacelle Right Outboard	05-07043	**$255.95**
GF32467-00	K2U Piper PA-23 Left Wing Tip	05-07044	**$581.00**
GF34267-01	K2U Piper PA-23 Right Wing Tip	05-07045	**$581.00**
K16792-00	K2U Piper PA-23 Rudder Tip	05-11059	**$258.95**

PA-24

MFR PN	Description	Part No.	Price
GF20804-12	Fiberglass Bulkhead Assembly (Tail) Piper PA-24-180 S/N 24-3337 & up. PA-24-250 S/N 24-2844 & up, PA-24-260	05-07016	**$214.95**
GF21143	Fiberglass Lower Scoop Inlet PA24 (not for use on aircraft with cowl P/Ns 21950-07/-14, 22858-02, 22857-12, 24895-02/-17 or if carburetor air filter kit is installed)	05-07017	**$567.00**
GF21555-00	Fiberglass Rudder Tip (W/O Antenna Slot) Piper PA-24-180, PA-24-250	05-07018	**$223.95**
GF21555-02	Fiberglass Rudder Tip (Antenna Slot) Piper PA-24-180, PA-24-250	05-07019	**$232.95**
GF21556-00	Fiberglass Stabilator Tip Piper PA-24-180, PA-24-250, PA-24-260, PA-30 s/n 30-2 thru 30-1716 and 30-1718 thru 30-1744 inclusive	05-07021	**$227.95**
GF21557-00	Fiberglass Vertical Fin Tip Piper PA-24-180, PA-24-250	05-07022	**$212.95**
GF21605-05	Fiberglass Bulkhead Assembly (Tail) Piper PA-24-180 S/N 24-1 thru 24-3336, PA-24-250 S/N 24-105 thru 24-2843, PA-24-400	05-07023	**$214.95**
GF24846-00	Fiberglass Rudder Cap Piper PA-24-260	05-07032	**$260.95**
GF24896-00	Fiberglass Vertical Fin Tip Piper PA-24-260	05-07033	**$226.95**
GF28041-00	Fiberglass Stabilator Tip Piper PA24-250, PA-24-260. (Use if stabilator modification kit 760-747 has been installed.)	05-07036	**$235.95**
K21947-00	Piper PA-24 Comanche Cowl Scoop Piper PA-24-180 & PA-24-250 S/N 24-1477 thru 24-2843. PA-24-250 S/N 24-103 thru 24-1476 if carburetor air filter kit 754 285 has been installed. PA-24-180 S/N 24-2844 thru 24-3163, PA-24-250 S/N 24-2844 & Up, PA-24-180 & PA-24-260 S/N 24-3164 & Up.	05-11060	**$582.00**
K23451-00	K2U Piper PA-24 Rudder Tip	05-10861	**$260.95**

PA-28/32

MFR PN	Description	Part No.	Price
GF35885-03	K2U Piper PA-28 Lower Rudder Faring	05-07046	**$496.00**
GF35885-10	K2U Piper PA-28 Lower Rudder Faring W/O Light	05-07047	**$479.00**
GF35944-15	K2U Piper PA-28 Nose Wheel Faring Assembly 6.00 X 6 W/ Door	05-07049	**$1,459.00**
GF67352-00	K2U Piper PA-28 Left Nose Gear Door Assembly	05-07073	**$1,033.00**
GF67352-01	K2U Piper PA-28 Right Nose Gear Door Assembly	05-07074	**$1,033.00**
GF37925-06	Aft Nose Gear Strut Fairing PA-28-181 S/N 28-7890001 & up.	05-15368	**$227.95**
GF3A25-07	Forward Nose Gear Strut Fairing Piper Models: PA-28-181 S/N 28-7890001 & up.	05-15280	**$225.95**
GF78913-00	K2U Piper PA-28/32/44 Forward Dorsal	05-07083	**$406.00**
GF79890-00	K2U PA-28/32 Faring Left Main Wheel SHELL	05-07084	**$1,823.00**
GF79890-01	K2U Piper PA-28/32 Faring Right Main Wheel SHELL	05-07086	**$1,823.00**
GF79890-02	K2U Piper PA-28/32 Faring Left Main Wheel ACCESS PANEL	05-07087	**$667.00**
GF79890-03	K2U Piper PA-28/32 Faring Right Main Wheel ACCESS PANEL	05-07088	**$667.00**
GF79892-04	K2U Piper PA-28/32 Faring Assembly Left Upper Forward Main Wheel	05-07089	**$374.00**
GF79892-05	K2U Piper PA-28/32 Faring Assembly Right Upper Forward Main Wheel	05-07091	**$374.00**

PA-28/32 CONT.

GF79892-09	K2U Piper PA-28/32 Faring Assembly Main Wheel Right Upper AFT	05-07092	**$370.00**
GF79892-10	K2U Piper PA-28/32 Faring Assembly, Main Wheel Left Upper AFT	05-07093	**$370.00**
K2U65300-00	K2U Piper PA-28 Stabilator Tip Extended	05-07111	**$487.00**
K35512-00	K2U Piper PA-28-151/161 Faring Assembly Nose Wheel 5.00 X 5	05-07112	**$875.00**
K65203-00	K2U Piper PA-28/32 Faring Assembly-Main Left Wheel	05-07113	**$669.00**
K65203-01	K2U Piper PA-28/32 Faring Assembly Main Right Wheel	05-07114	**$669.00**
K65331-00	K2U Piper PA-28/32 Faring Assembly Nose Wheel 6.00 X 6	05-07116	**$692.00**
GF35944-014	K2U Nose Wheel Pant. No Door 6.00 X 6 Tire Piper PA-28 PA-32	05-11055	**$1,092.00**
RD-0094-00	K2U Stabilator Tip Piper PA-28 PA-32 PA-44	05-12491	**$361.00**

PA-30

MFR PN	Description	Part No.	Price
GF25066	K2U Piper PA-30 S/N 30-1717 & 30-1745 & UP PA-39 Stabilator Tip	05-07034	**$238.95**
GF23595-00	K2U Piper PA-30/39 Rudder Tip	05-07031	**$260.95**

PA-31

MFR PN	Description	Part No.	Price
GF40364-02	K2U Piper PA-31 Tip Stabilator	05-07050	**$266.95**
GF42426-00	K2U Piper PA-31Faring Assembly Nacelle Left Outboard	05-07051	**$361.00**
GF42426-01	K2U Piper PA-31 Faring Assembly Nacelle Right Outboard	05-07052	**$361.00**
GF42455-00	K2U Piper PA-31 Faring Assembly Nacelle Left Top Inboard	05-07053	**$273.95**
GF42455-01	K2U Piper PA-31 Faring Assembly Nacelle Right Top Inboard	05-07054	**$273.95**
GF42455-02	K2U Piper PA-31 Faring Assembly Nacelle Left Forward Inboard	05-07056	**$317.00**
GF42455-03	K2U Piper PA-31 Faring Assembly Nacelle Right Forward Inboard	05-07057	**$317.00**
GF42455-04	K2U Piper PA-31 Faring Assembly Nacelle Left Bottom Inboard	05-07058	**$197.75**
GF42455-05	K2U Piper PA-31 Faring Assembly Nacelle Right Bottom Inboard	05-07059	**$197.75**
GF43741-00	K2U Piper PA-31 Elevator Left Tip	05-07062	**$319.00**
GF43741-01	K2U Piper PA-31 Elevator Right Tip	05-07063	**$319.00**
GF43786-00	K2U Piper PA-31 Elevator Leading EDGE	05-07064	**$268.95**
GF44943-00	K2U Piper PA-31 Fin Tip	05-07069	**$319.00**
GF55802-12	K2U Piper PA-31 Left Wing Tip w/Reco Light	05-07071	**$1,397.00**
GF55802-13	K2U Piper PA-31 Right Wing Tip w/Reco Light	05-07072	**$1,397.00**
K40363-1	K2U PA-31 Series Rudder Tip	05-10862	**$428.00**

PA-32

Description	Part No.	Price
K2U Piper PA-32 Nose Wheel Faring Assembly 6.00 X 6 With door	05-07048	**$1,425.00**

PA-34

MFR PN	Description	Part No.	Price
GF95620-07	K2U Piper PA-34 Stabilator Tip	05-07096	**$388.00**
GF95907-00	K2U Piper PA-34 Rudder Tip Faring	05-07097	**$457.00**
GF96338-04	K2U Piper PA-34 Upper Tail Cone	05-07103	**$462.00**
GF96338-08	K2U Piper PA-34 Lower Tail Cone	05-07104	**$432.00**

PA-38

MFR PN	Description	Part No.	Price
GF77328-02	K2U Piper PA-38 Left Main Gear Wing Faring	05-07076	**$271.95**
GF77328-03	K2U Piper PA-38 Right Main Gear Wing Faring	05-07077	**$271.95**
GF77606-03	K2U Piper PA-38 Forward Dorsal Fin	05-07078	**$333.00**
GF77606-08	K2U Piper PA-38 Dorsal Fin AFT	05-07079	**$253.95**
GF77607-00	K2U Piper PA-38 Faring Dorsal Fin	05-07081	**$271.95**
GF77613-00	K2U Piper PA-38 Lower Rudder Faring	05-07082	**$270.95**

PA-44

Description	Part No.	Price
K2U Piper PA-44 Nacelle AFT Tip	05-07094	**$376.00**

KNOTS 2U PIPER/CESSNA/COMMANDER PARTS

AP

PA-60

MFR PN	Description	Part No.	Price
GF200038-901	K2U Piper PA-60 Left Long Tip, Short Wing Assembly	05-07011	**$886.00**
GF200038-902	K2U Piper PA-60 Right Long Tip, Short Wing Assembly	05-07012	**$886.00**
GF200102-901	K2U Piper PA-60 Left Short Tip, Long Wing Assembly	05-07013	**$886.00**
GF200102-902	K2U Piper PA-60 Right Short Tip, Long Wing Assembly	05-07014	**$886.00**
GF220021-505	K2U Piper PA-60 Vertical Fin Tip w/o Beacon	05-07024	**$478.00**
GF220021-903	K2U Piper PA-60 Horizontal Tip Assembly	05-07026	**$478.00**
GF220021-913	K2U Piper PA-60 Vertical Tip Assembly With Beacon	05-07027	**$558.00**

PA28/PA34

MFR PN	Description	Part No.	Price
GF78022-00	K2U Piper PA-28 / Pa-34 Wing Tip Left 4 Inch Nav Pad	05-14684	**$609.00**
GF78022-01	K2U Piper PA-28 / Pa-34 Wing Tip Right 4 Inch Nav Pad	05-14685	**$609.00**
GF78022-02	K2U K2U Piper PA-28 / Pa-34 Wing Tip Left 6 Inch Nav Pad	05-14971	**$609.00**
GF78022-03	K2U Piper PA-28 / Pa-34 Wing Tip Right 6 Inch Nav Pad	05-14972	**$609.00**

CESSNA

MFR PN	Description	Part No.	Price
GF55200-00	K2U Cessna 170/172 Lower Cowl Lip	05-07070	**$212.95**
K0741648-01	K2U Cessna 182T T182T Left Wheel Fairing Assembly	05-07107	**$2,057.00**
K0741648-02	K2U Cessna 182T T182T Right Wheel Fairing Assembly	05-07108	**$2,057.00**
K0743050	K2U Cessna 182T T182T Nose Fairing Assembly	05-07109	**$1,403.00**
K1234640-1	K2U Cessna 206/207/210 Late Models Tip Elevator LH	05-10858	**$257.95**
K1234640-2	K2U Cessna 206/207/210 Late Models Tip Elevator RH	05-10859	**$248.95**
K0531006-34	K2U Cessna 172 Models Rudder Cap	05-11056	**$212.95**
K0531006-112	K2U Cessna 172 Rudder Cap	05-11057	**$212.95**
K0531012-2	K2U Cessna 172 Dorsal Fairing	05-11058	**$160.75**
F0531033-1	Vertical Fin Tip GF0531033-1	05-11975	**$227.95**
GF1212010-00	K2U Cessna 206 207 210 Fiberglass Tail Stinger	05-15525	**$542.00**
K0421002-1	K2U Cessna 150/152 Strut Faring Lower left	05-11019	**$194.75**
K0421002-2	K2U Cessna 150/152 Strut Faring Lower Right	05-11020	**$194.75**
K0522150-4	K2U Cessna 150/172/175 Strut Fairing Upper Left	05-11024	**$202.95**
K0522150-3	K2U Cessna 150/172/175 Strut Fairing Upper Right	05-11023	**$212.95**
K0522150-1	K2U Cessna 172/175 Strut Faring Lower Left	05-11021	**$217.95**
K0522150-2	K2U Cessna 172/175 Strut Faring Lower Right	05-11022	**$217.95**
K0723605-1	K2U Cessna 180/182 Strut Faring Lower Left	05-11025	**$202.95**
K072305-2	K2U Cessna 180/182 Strut Faring Lower Right	05-11026	**$212.95**
GF0532001	Elevator Tip Left 28-09-L	05-11968	**$212.95**
GF0532001	Elevator Tip Right 28-09-R	05-11969	**$216.95**
GF 0532001-00	Fiberglass Stabilizer Tip LH or RH. Cessna 172 (1963 & Up)	05-11970	**$177.75**
GF 0531006-80-791	Fiberglass Rudder Bottom. Cessna 172 1969 thru 85.	05-11971	**$205.95**

COMMANDER

MFR PN	Description	Part No.	Price
GF175009-3	K2U Commander 112 Left Wing Tip	05-07008	**$643.00**
GF175009-8	K2U Commander 112 Right Wing Tip	05-07009	**$643.00**
GF43367-210	K2U Commander 114 TAIL Stinger	05-07060	**$626.00**
GF43650-501	K2U Commander 112/114 Dorsal Fairing	05-07061	**$942.00**
GF44233-11	K2U Rockwell Commander 114 Rudder Cap	05-07066	**$268.95**
GF44300-3	K2U Rockwell Commander Vertical Fin Cap	05-07067	**$287.95**
GF44324-400	K2U Commander 112/114 Tip Stabilator	05-07068	**$413.00**

BEECH

MFR PN	Description	Part No.	Price
GF105-1010-00	K2U Beech 76 Left Wing Tip	05-06995	**$589.00**
GF105-1010-01	K2U Beech 76 Right Wing Tip	05-06996	**$589.00**
GF108-1700-00	K2U Beech 77 Left Wing Tip	05-06997	**$589.00**
GF108-1700-01	K2U Beech 77 Right Wing Tip	05-06998	**$589.00**
GF108-4400-17	K2U Beech 77 Tail Cone	05-06999	**$434.00**
GF169-1100-00	K2U Beech 23/24 Left Wing Tip	05-07002	**$568.00**
GF169-1100-01	K2U Beech 19/23/24 Right Wing Tip	05-07003	**$568.00**
GF169-420028-11	K2U Beech 19/23/24 Fuel Sump Drain Cover	05-07004	**$180.95**
GF169-440013-11	K2U Beech 19/23/24 Dorsal	05-07006	**$570.00**
GF169-4411-S	K2U Beech 19/23/24 Tail Conr	05-07007	**$628.00**
GF96110010-17	K2U Beech 55/56/58 Fairing Engine Nacelle Left Outboard	05-07098	**$458.00**
GF96110010-19	K2U Beech 55/56/58 Fairing Engine Nacelle Right Outboard	05-07099	**$458.00**
GF96110010-21	K2U Beech 55/56/58 Fairing Engine Nacelle Left Inboard	05-07101	**$458.00**
GF96110010-23	K2U Beech 55/56/58 Fairing Engine Nacelle Right Inboard	05-07102	**$458.00**
GF96-4415-00	K2U Beech 55/58 Dorsal Saddle	05-07106	**$660.00**
K33-440011-2	K2U Beechcraft 33 & 3 Models Dorsal Fin	05-11061	**$570.00**
GF169-910013-157	K2U Beech 19 23 24 Faring Lower Cowl	05-11963	**$197.75**

KNOTS 2 U CIRRUS NOSE WHEEL FAIRING

This nose wheel fairing is made of carbon fiber for a superior weight to strength ratio compared to the OEM part. We have also included a door for checking the tire pressure! K15312-001. Finish - White Primer, ready for paint. **Replaces**: Cirrus part 12446-105, 12446-106, 15312-002, 15310-001, 15310-002, 15312-001. **Aircraft Eligibility**: Cirrus Models SR20 S/N 1005 thru 1885, SR22 S/N 0528 thru 2437. FAA-PMA Approved.

P/N 05-11986 .....**$1,788.00**

KNOTS 2 U CESSNA WHEEL FAIRING

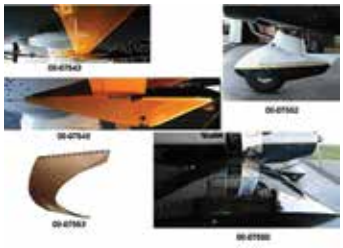
K2U Fiberglass Replacement of Main Wheel Pant Assembly with Door.

Right.....P/N 05-22069 .....**$782.00**

Left .....P/N 05-15512 .....**$782.00**

SEE WEBSITE FOR AIRCRAFT ELIGIBILITY

LAMINAR FLOW PIPER SPEED MODS



The first and still the best! Laminar Flow has been producing high quality Speed Mods for the Piper fleet since 1983. All of their products are time tested, race proven (with the results documented by such well respected publications as Aviation Consumer) and come with a money back guarantee. LFS under-wing Speed Mods are fabricated from aircraft grade aluminum eliminating the cracking and warping that frequently occur when composite components are fastened to a metal wing.

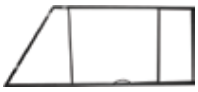
Aircraft Modification	Aircraft Model	Gains / Installation Time	Part No.	Price
Aileron Gap Seal Square Wing	All PA 28 / 32	3 MPH / 1.5 Hrs	08-07543	**$587.00**
Aileron Gap Seal Taper Wing	All PA 28 with Taperwing	3 MPH / 2 Hrs	08-07544	**$533.00**
Flap Gap Seals	PA 34	3 MPH / 2.5 Hrs	08-07546	**$326.00**
Flap Gap Seals	All PA 28 / 32	3 MPH / 2.5 Hrs	08-07547	**$481.00**
Flap Hinge Fairings 6 Pairs	All PA 28 / 32	2 MPH / 3.5 Hrs	08-07548	**$587.00**
Flap Hinge Fairings 8 Pairs	PA 34	2 MPH / 4 Hrs	08-07549	**$773.00**
Tank Fairings / Smoothing Kit	PA 28 / 32	4-15 MPH / 5-15 Hrs	08-07550	**$1,287.00**
Tank Fairings / Smoothing Kit Lance and Seneca	PA 32R / 34	8-15 MPH / 10-15 Hrs	08-07551	**$2,153.00**
Fixed Nose Fairing	All Fixed Gear PA 28 / 32 to 1978	2-3 MPH / 2 Hrs	08-07552	**$363.00**
Wheel Well Fairings	PA 28R Only	3 MPH / 4 Hrs	08-07553	**$826.00**
Wheel Well Fairings	PA 32 / 34	4 MPH / 3 Hrs	08-07554	**$897.00**

REPLACEMENT PIPER PARTS

J-3 LOWER DOOR

FAA/PMA'D. Uncovered, with pin. Includes handle and plunger. Does not include glass. Replaces Piper P/N 50173-00..P/N 05-05034 .....**$881.00**

UPPER DOOR ASSEMBLY



FAA/PMA'D. Uncovered. Does not include glass. Replaces Piper P/N 51853-00.
P/N 05-05035 .....**$750.00**

J-3 BRAKE PEDAL

FAA/PMA'd. LH Replaces Piper 41602-02.
P/N 05-04978 .. **$224.95 ea.**
FAA/PMA'd. RH Replaces Piper 41602-03.
P/N 05-04979 .. **$224.95 ea.**

J-3 RUDDER PEDAL KIT

FAA/PMA'd. Consists of two rear and front pedal assemblies. Replaces Piper P/N 40842-04 & 40842-05
P/N 05-04980 .. **$528.00 ea.**

J-3 STEP

FAA/PMA'd. Replaces Piper P/N 81903-02.
P/N 05-05003 ..... **$172.75**

PIPER FAA / PMA WING TIP FAIRING

Wing Tip Mount, FAA/PMA'd For use in installing lights on PA22, PA22-108, PA22-135, PA22S-135, PA22-150, PA22S-150, PA22-160 and PA22S-160 only.
P/N 05-08094 .....**$104.75**

J-3 EXHAUST COMPONENTS

FAA/PMA'd. J-3 Muffler only (no shroud). Replaces Piper P/N 71053-02.
P/N 05-04981 ..... **$857.00**

FAA/PMA'd. J-3 Tailpipe (This tailpipe will not fit J-4s) Replaces Piper P/N 74501-00.
P/N 05-04982 ..... **$379.00**

FAA/PMA'd. J-3 Tailpipe Shroud. Replaces Piper P/N 70912-00 .....P/N 05-04983 ..... **$253.95**

FAA/PMA'd. J-3 Muffler Shroud Replaces Piper P/N 70963-00 .....P/N 05-06460 .....**$524.00**

J-3 MUFFLER CLAMP WITH PIN

FAA/PMA'd. J-3, 4, 5, & PA-15, 17, PA-22 Tri-Pacer & Colt Styles, PA-28-140 Cherokee Style. Also suitable for use on Lycoming powered homebuilts 108 hp thru 150 hp. 2 required for full system. Sold as each. Replaces Piper P/N 70591-02.
P/N 05-04985 .....**$55.75**

J-3 TAILPIPE CLAMP

FAA/PMA'd. for full system-J-3, 4, 5, & PA-12, 14, 15, 16, 17, PA-18 Super Cub, PA-22 Tri-Pacer & Colt Styles, PA- 28-140 Cherokee Styles. Also suitable for use on Lycoming powered homebuilts 108 hp thru 150 hp. 1 required. Sold as each. Replaces Piper P/N 72691-00 .....P/N 05-05253 .....**$61.75**

J-3 EXHAUST SUPPORT BRACKET

FAA/PMA'd Replaces Piper P/N 70581-00....P/N 05-04987 .....**$61.75**

J-3 REAR WINDOW CHANNEL

FAA/PMA'd. Replaces Piper P/N 10057-00 & 10058-00 .....P/N 05-05038 .....**$76.95**

SLIDING WINDOW GUIDE ASSEMBLY KIT, LH

Consists of front and rear frames and slides. Includes opening stop. 2-3 ft. pieces Replaces Piper P/Ns 21671-00, 10059-00
P/N 05-05075 .....**$148.95**

FULL EXHAUST SYSTEM J-3

FAA PMA'd. Includes all component parts listed below plus the PMA'd header stacks. Fits all J-3 and homebuilts using A-65 engines without accessories. Uses treated aluminized mild steel stacks, including clamps.
Complete System.....P/N 05-06461 .....**$2,738.00**

Replacement system includes:

Muffler	Replaces Piper P/N 71053-02
Tailpipe	Replaces Piper P/N 74501-00
Tailpipe Shroud	Replaces Piper P/N 70912-00
Muffler Shroud	Replaces Piper P/N 70963-00
Muffler Clamps, two	Replaces Piper P/N 70591-02
Tail Pipe Clamp	Replaces Piper P/N 72691-00
Bracket	Replaces Piper P/N 70581-00
Stack, LH	Replaces Piper P/N 71082-00
Stack, RH	Replaces Piper P/N 70671-00

J-3, A-65 HEADER STACKS

FAA/PMA'd. Exhaust stacks built to exact dimensions of J-3 header pipes of mild steel with long-life hot aluminized finish.
Both Stacks .....P/N 05-04993 .....**$822.00**
LH Replaces Piper P/N 71082-00 .....P/N 05-04994 .....**$460.00**
RH Replaces Piper P/N 70671-00.....P/N 05-04995 .....**$460.00**

J-3 HORIZONTAL STABILIZER

FAA/PMA'd. Newly manufactured. Uncovered. Replaces Piper P/N 40643-00 .....P/N 05-05036 .....**$1,008.00**

J-3 STABILIZER ATTACH LINK ASSEMBLY

FAA/PMA'd. Replaces Piper P/N43122-00...P/N 05-05015 .....**$227.95**

J-3 RUDER ASSEMBLY

FAA/PMA'd. Uncovered. Replaces Piper P/N 41313-00
P/N 05-05037 .....**$862.00**

J-3 VERTICAL FIN

FAA/PMA'd. Uncovered. Replaces Piper P/N 40592-00.
P/N 05-04998 .....**$591.00**

STABILATOR CABLE KITS FOR PIPERS

McFarlane has complete stock of FAA-PMA stabilator cables for the Piper aircraft affected by AD 2013-02-13 (except PA-44) and Piper Service Bulletin 1245A.

McFarlane flight controls cables offer quality that is second to none in the aircraft industry, and a set of four stabilator cables typically costs over $200 less than the equivalent Piper cables. Cables are available individually or as complete airplane kits at 15% savings. McFarlane also stocks all common turnbuckle barrels and clips. Convenient and money saving kits include all four stabilator cables (two forward and two aft), two MS21251-B5S turnbuckle barrels and ten MS21256-1 locking clips (spares always come in handy).

Description	Part No.	Price
Stabilator Cable Kit For Piper PCKT-STAB-01	05-10727	**$660.00**
Stabilator Cable Kit For Piper PCKT-STAB-02	05-10728	**$472.00**
Stabilator Cable Kit For Piper PCKT-STAB-03	05-10729	**$503.00**
Stabilator Cable Kit For Piper PCKT-STAB-04	05-10730	**$800.00**
Stabilator Cable Kit For Piper PCKT-STAB-05	05-10731	**$740.00**
Stabilator Cable Kit For Piper PCKT-STAB-06	05-10732	**$875.00**
Stabilator Cable Kit For Piper PCKT-STAB-07	05-10733	**$637.00**
Stabilator Cable Kit For Piper PCKT-STAB-08	05-10734	**$966.00**
Stabilator Cable Kit For Piper PCKT-STAB-10	05-10736	**$795.00**
Stabilator Cable Kit For Piper PCKT-STAB-11	05-10737	**$682.00**
Stabilator Cable Kit For Piper PCKT-STAB-12	05-10739	**$644.00**

SEE WWW.AIRCRAFTSPRUCE.CA FOR APPLICATION CHART

J-3C-65 COWLING ASSEMBLY STC 'D #SA 158GL

FAA/PMA'd. Nose pieces on cowling are made of high strength fiberglass.
Complete Unit.....P/N 05-04999 .....**$1,491.00**

Top Half Cowl Replaces Piper P/N 72543-00
P/N 05-06462 .....**$953.00**

Bottom Half Cowl Replaces Piper P/N 72473-00
P/N 05-05001 .....**$906.00**

J-3 STYLE ENGINE EYEBROW KIT

J-3 Style Aluminum Engine Eyebrow Kit. Hardware inclu-ded. Copy of original. For continental engines A65 & A-75. Mounting Brackets for this kit are available 05-08089.
Eyebrow Kit .....P/N 05-08088 .....**$867.00**
Mounting Bracket.....P/N 05-08089 .....**$79.99**

J-3 BOOT COWL

FAA/PMA'd. Includes fire wall and windshield frame. Replaces Piper P/N 23993-00
P/N 05-05013 .....**$947.00**

J-3 WINDSHIELD FRAME

FAA/PMA'd. Replaces Piper P/N 23942-00 & 23952-00 ..... P/N 05-05014.....**$179.75**

J-3 FUSELAGE TAILPOST

FAA/PMA'd. Replaces Piper P/N 20012.....P/N 05-05047 .....**$152.85**

J-3 ELEVATOR BELL CRANK MOUNT

Bracket Assembly. FAA/PMA'd.
LH Replaces Piper P/N 21442-02 ...P/N 05-05045 .....**$110.75**
RH Replaces Piper P/N 21442-03...P/N 05-05046 .....**$103.75**

J-3 WING SPAR-TO-FUSELAGE ATTACH FITTING KIT

FAA/PMA'd. For wood spar wing only. Front and rear. Replaces Piper P/N 12801-00 & 12791-00
P/N 05-05076 .....**$224.95**

J-3 PREFORMED AILERON GAPS

FAA/PMA'd. For use with metal ribs only. Replaces Piper P/N 15572-00 & 15572-01
P/N 05-05079 .....**$134.90**

J-3METALRIBWINGREPAIRKIT

Made from H14 1100 Aluminum, .020 thickness, kit consists of material to properly repair main and nose ribs and uprights for Piper J-3 ribs. This kit patches the rib (not replaces). Rivets not included.
P/N 05-05043 .....**$168.75**

J-3C-40, 50, 50S, 65, 65S WING TRAILING EDGES

FAA/PMA'd.
For metal spar
Replaces Piper P/N 15773-00.....P/N 05-05031 .....**$107.75**
For wood spar
Replaces Piper P/N 15593-00.....P/N 05-05032 .....**$126.75**
Aileron Trailing Edge Replaces Piper P/Ns 42922-00,42933-00, 40411-00.....P/N05-05033 .....**$127.99**

J-3 WING LEADING EDGE

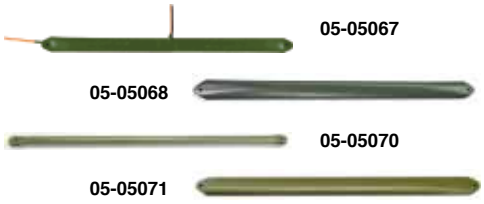
J-3 and Sport Trainer Wing Leading Edge Skin Kit. Kit Includes 4pc of formed leading edge material and it is not a single piece leading edge.
FAA/PMA'd.....P/N 05-05041 .....**$489.00**

SEALED J-3 LIFT STRUTS WITH CLAMPS

FAA/PMA'd. Includes jury strut clamps, original size 7/16" X 20 thread. J-3 Front and Rear Lift Struts are oiled and sealed and are manufactured to revision levels and installed per AD-93-10-06 are an FAA approved alternate means of compliance and is considered terminating actions for repetitive inspection requirement of AD-99-01-05. For lift struts, forks require a five year inspection per A.D. 93-10-06.
Struts are oiled, sealed and made from high quality 4130 streamline tubing.
Front .....P/N 05-05016 .....**$1,249.00**
Rear.....P/N 05-05017 .....**$1,074.00**

J-3 JURY STRUTS

FAA/PMA'd. Front with pitot tube



Replaces Piper P/N 12931-00.....P/N 05-05067 .....**$243.95**
FAA/PMA'd. Front w/o pitot tube
Replaces Piper P/N 12571-02.....P/N 05-05068 .....**$210.95**
FAA/PMA'd. Jury Strut Fittings (Set of 4)
Replaces Piper P/N 12581-00.....P/N 05-05069 .....**$125.75**
FAA/PMA'd. Jury Strut Interconnect
Replaces Piper P/N 12591-00.....P/N 05-05070 .....**$126.75**
FAA/PMA'd. Rear
Replaces Piper P/N 12571-03.....P/N 05-05071 .....**$177.90**

J-3 AND PA-11 LANDING GEAR

FAA/PMA'd. Completely fabricated. Ready to install landing gear with 1-1/4" axle.
LH - Replaces Piper P/N 10033-00
P/N 05-05005 .....**$1,067.00**
RH - Replaces Piper P/N 10033-01
P/N 05-05006 .....**$1,070.00**

J-3 BOOT COVERS

FAA/PMA'd. Sold as a pair. Replaces Piper P/N 31073-00.....P/N 05-05008 .....**$65.75**

J-3 CABANE VEE ASSEMBLY

FAA/PMA'd. J-3 Series s/n 2315 to s/n 8277 except s/n 2316, 2332 & 2353. Uses 1/4" bolt. Replaces Piper P/N 21-09
P/N 05-05009 .....**$446.00**
FAA/PMA'd. J-3 Series s/n 8278 & up, uses 5/16" bolt. Replaces Piper P/N 30602-00
P/N 05-05010 .....**$438.00**

J-3 SHORT SHOCK STRUT

FAA/PMA'd. Fits both J-3 s/n 8278 and up, and L4 series. 15" length. Replaces Piper P/N 31392-00
P/N 05-05011 .....**$421.00**

J-3 LONG SHOCK STRUT

FAA/PMA'd. Fits both J-3 s/n 8278 and up, and L4 series. 25" Length. Replaces Piper P/N 31382-00
P/N 05-05012 .....**$457.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

REPLACEMENT PIPER PARTS

J-3 ELEVATOR PUSH-PULL TUBE

FAA/PMA'd. Fits J-3 & PA-11 aircraft. Uses control cable. Replaces Piper P/N 40901-02
P/N 05-05074 .....**$488.00**

J-3 PIPER STABILIZER YOKE INSPECTION COVER

FAA/PMA'd Replaces Piper P/N 60571-00 & 60571-01 .....P/N 05-05078 .....**$66.95**

J-3 CONTROL STICK TORQUE TUBE ASSEMBLIES

FAA/PMA'd. Replace your worn J-3 unit with a newly manufactured unit. Replaces Piper P/N 40223-00..P/N 05-05004 .....**$895.00**

J-3 CONTROL STICK CONNECTOR

FAA/PMA'd. Fits J-3 & PA-11 aircraft. Replaces Piper P/N 40261-00.
P/N 05-05073 .....**$231.95**

J-3 THROTTLE COVER PLATE

FAA/PMA'd. Exact reproduction of J-3 throttle plate with imprinted wording. High quality, unpainted. Ideal for most light aircraft. Replaces Piper P/N 41501-00
P/N 05-05081 .....**$65.75**

J-3 STICK ASSEMBLY

FAA/PMA'd. Fits J-3 & PA-11 aircraft. Includes socket and removable stick. Replaces Piper P/N 42812-00.....P/N 05-05072 .....**$427.00**

J-3 MAIN TANK

FAA/PMA'd. Exact replacement, aluminum. Ideal for most homebuilts.12 gal. tank, 17-1/2"L x 13"W x14-1/2"H. Uses a CAV-110-H-4 drain valve, not included. Replaces Piper P/N 70723-00
P/N 05-04984 .....**$990.00**

STC'D J-3 WING TANKS

Kit includes mounting brackets, installation instructions and STC paperwork. Requires a gas cap, a 2-way shut-off valve and 3/8" x 1/4" brass fuel strainer which are not included.

11-1/2 Gallon Kit
LH Wood Spar .....P/N 05-04989 .....**$1,085.00**
RH Wood Spar .....P/N 05-04991 .....**$1,082.00**
11-1/2 Gallon Kit
LH Metal Spar.....P/N 05-04990 .....**$1,082.00**
RH Metal Spar .....P/N 05-06839 .....**$1,087.00**

J-3, PA-11 GAS CAP & FLOAT

FAA/PMA'd. 15" depth. Replaces Piper P/N 71041-00.
P/N 05-05022 .....**$127.99**

PIPER FAA / PMA ENGINE MOUNTS

Application	Description	Part No.	Price
M-525-000 Piper J-3, PA-18, and Sport Trainer Dynafocal Swing-Out Mount. Fits firewall mounting points, 18-3/4"W x 18-3/8"H. For Lycoming 150 thru 180 hp. Note: This mount does not have FAA/PMA Approval.	M-525-000 Dynafocal Swing Out Mount	05-08083	**$1,212.00**
Installation brackets for dynafocal mounts	Install Brackets for Swing Out Mounts	05-08087	**$220.95**

J-3 FIREWALL CABIN AIR BOX

FAA/PMA'd. Replaces Piper P/N 70422-00
P/N 05-05002 ...**$165.75**

J-3 NOSE COWL RAM AIR BOX

FAA/PMA'd. Provides a source of ram air for both cabin and carb heat shrouds. 2" diameter. Replaces Piper P/N 72522-00
P/N 05-05044 .....**$270.95**

J-3 FRONT SEAT FRAME ASSEMBLY

FAA/PMA'd. Replaces Piper P/N 51013-02
P/N 05-04997 .....**$848.00**

J-3 REAR SEAT CROSS TUBE

FAA/PMA'd. Replaces Piper P/N 50381-02..P/N 05-05061 .....**$130.80**

J-3 GAS TANK FUSELAGE STRAP KIT

FAA/PMA'd. For main fuel tank applications. Includes one each listed below and felt padding 180-150 ..... P/N 05-06463.....**$243.95**
Front Upper ..... Replaces Piper P/N 70462-00
Front Lower ..... Replaces Piper P/N 70451-03
Rear Upper..... Replaces Piper P/N 70472-00
Rear Lower..... Replaces Piper P/N 70451-02

J-3 FAIRING SETS & FAIRINGS

05-05020 **05-05023** **05-05025** **05-05027** **05-05029**

05-05021 **05-05024** **05-05026** **05-05028** **05-05030**

FAA/PMA'd. LH Fairing Set
Includes one each LH Wing Root Fairing, LH Fairing Top, LH Rear Fairing Bottom and LH Front Fairing Bottom. See Replacement Piper P/Ns Below ..... P/N 05-05020 ..... **$259.95**

FAA/PMA'd. RH Fairing Set
Includes one each RH Wing Root Fairing, RH Fairing Top, RH Rear Fairing Bottom and RH Front Fairing Bottom. See Replacement Piper P/Ns Below ..... P/N 05-05021 ..... **$259.95**

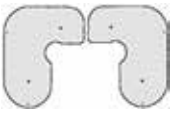
FAA/PMA'd. Wing Root Fairing
LH Replaces Piper P/N 60803-00 ..... P/N 05-05023 ..... **$68.95**
RH Replaces Piper P/N 60803-01..... P/N 05-05024 ..... **$70.75**

FAA/PMA'd. Fairing Top
LH Replaces Piper P/N 60772-00 ..... P/N 05-05025 ..... **$71.75**
RH Replaces Piper P/N 60702-01..... P/N 05-05026 ..... **$71.75**

FAA/PMA'd. Rear Fairing Bottom
LH Replaces Piper P/N 60782-00 ..... P/N 05-05027 ..... **$58.95**
RH Replaces Piper P/N 60782-01..... P/N 05-05028 ..... **$58.95**

FAA/PMA'd. Front Fairing Bottom
LH Replaces Piper P/N 60792-00 ..... P/N 05-05029 ..... **$64.75**
RH Replaces Piper P/N 60872-00..... P/N 05-05030 ..... **$64.75**

AP



ELEVATOR HORN INSPECTION PLATES

FAA/PMA'd Metal, unpainted. Sold as a Set of 2 Replaces Piper P/N 60742-00 & 60742-01.

P/N 05-05039 .....**$104.75**

FLEXIBLE HEAT TUBE ADAPTER

FAA/PMA'd. Replaces Piper P/N 72911-00

P/N 05-05059 .....**$107.75**

ENGINE FRONT COWLING ATTACH BRACKET

FAA/PMA'd Sold as a set of 2. Replaces Piper P/N 72651-00 & 72571-00

P/N 05-05060 .....**$271.95**

J-3 BOOT COWL NAMEPLATE

Exact reproduction of the original. Raised metal lettering requires painting. 6-1/8" x 1-1/2". Replaces Piper P/N 480 921 .....P/N 05-04996 .....**$43.70**

TRIM TAB CONTROL COVER PLATE

Nose Up / Down markings need to be applied to plate. Replaces Piper P/N 41131-00

P/N 05-05040 .....**$78.75**

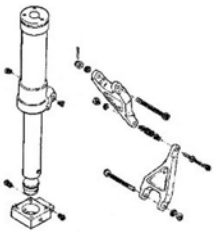
INSTRUMENT PANEL WITH CUT OUTS

FAA/PMA'd. with Cutouts Five holes each of 3-1/8" dia. Replaces Piper P/N 00024-94

P/N 05-05018 .....**$114.75**

FAA/PMA'd. Blank instrument panel for Piper. Replaces Piper P/N 54703-00

P/N 05-05019 .....**$108.75**



TORQUE LINK REPAIR KITS FOR PIPER AIRCRAFT

Torque Link Repair Kits for Piper Aircraft. Solves many wheel shimmy problems. Save up to 60%.

Features: • Convenient kits replace all common wear torque link components. • Fits most prop driven Piper aircraft. • Contains all FAA approved parts and standard hardware. • Save time and money! No more research and ordering of individual parts.

SEE WWW.AIRCRAFTSPRUCE.CA FOR APPLICATION CHART AND PRICING.

PULLEY BUSHING

Pulley Bushing for Piper Bushing U80012-003. Applicability: Piper J-3, L-4, NE-1, NE-2, PA-11, PA-18, PA-19, L-18, L-21. Wing aileron pulley bushing. **Outer diameter**: 1/4 inch. **Inner diameter**: 3/16 inch. **Length**: 5/16 inch. FAA/PMA approved. Supercedes part numbers 80012-003, 80012-03, 80012-3, J2-453.....P/N 05-15331 .....**$9.60**

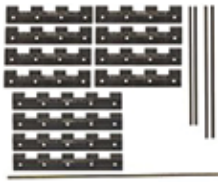
CONTROL SURFACE BUSHINGS

Piper Long Bushing U80022-044

P/N 05-15332 .....**$2.01**

Piper Short Bushing U80022-045

P/N 05-15333 .....**$2.63**



PIPER TRIM HINGE KITS

Trim Hinge Kits for Piper Aircraft. FAA-PMA Approved - Fits many popular Piper Aircraft.

Model No.	Description	Part No.	Price
PTH-KT-1	Trim Hinge	05-13093	**$408.00**
PTH-KT-2	Trim Hinge	05-13094	**$327.00**
PTP-KT-1	Trim Pin	05-13095	**$62.80**
PTP-KT-2	Trim Pin	05-13096	**$66.75**

SOLD SEPARATELY

PIPER NOSECONE BAGGAGE DOOR LATCH & PLACARD

Improved FAA-PMA direct replacement lock & placard for Piper aircraft series PA-23, PA-31, PA-42 Door Lock/Latch: Pre-assembled lock and offset cam helps prevent installation mistakes, Includes clear instructions. Placard: Contains both a black and white version to contrast with any paint scheme.

Description	Part No.	Price
Nosecone lock/latch assembly	05-13144	**$118.75**
Nosecone placard	05-13145	**$86.75**

J-3 HARNESS KITS

Starting at:	**Front $303.00**	**Rear $351.00**
Black	13-00913-1	13-00914-1
Navy	13-00913-2	13-00914-2
Brown	13-00913-3	13-00914-3
Royal Blue	13-00913-4	13-00914-4
Red	13-00913-5	13-00914-5
Tan	13-00913-6	13-00914-6
Olive Green	13-00913-7	13-00914-7
Silver Gray	13-00913-8	13-00914-8

PIPER FLIGHT CONTROL CABLE KITS

It is a tedious and time consuming job to research the part manuals for all of the cables required for a complete aircraft. You not only gain tremendous time savings with McFarlane cable kits, you receive substantial price discounts. All components are fully traceable, high quality, and proof tested.

See our website for a detailed list of kit components.

PCKT200-03 Flight Control Cable Kit.....P/N 05-04629 .....**$2,622.00**
PCKT200-07 Flight Control Cable Kit.....P/N 05-04630 .....**$2,645.00**
PCKT200-04 Flight Control Cable Kit.....P/N 05-04631 .....**$2,645.00**
PCKT200-08 Flight Control Cable Kit.....P/N 05-04632 .....**$2,665.00**
PCKT200T-01 Flight Control Cable Kit.....P/N 05-04633 .....**$3,456.00**
PCKT200T-02 Flight Control Cable Kit.....P/N 05-04634 .....**$3,315.00**
PCKT200T-03 Flight Control Cable Kit.....P/N 05-04635 .....**$2,450.00**
PCKT200T-04 Flight Control Cable Kit.....P/N 05-04636 .....**$2,478.00**
PCKT220T-01 Flight Control Cable Kit.....P/N 05-04637 .....**$3,337.00**

FUEL STRAINER SEALS AND KITS FOR PIPER AIRCRAFT

05-06821 **05-06828** **05-06829** **05-00126**

FAA approved improved fuel strainer seals for Piper aircraft. Many of the new seals feature fuel proof fluorocarbon that won't swell or degrade like the original Buna N seals. All seals may be purchased separately, or in convenient kits containing both the upper and lower seal for one fuel strainer.

Model No.	Description	Spruce Part No.	Price
FSP-KT-1	Fuel Gasket Kit	05-06821	**$29.70**
FSP-KT-2	Fuel Gasket Kit	05-06822	**$23.50**
FSP-KT-3	Fuel Gasket Kit	05-06823	**$29.70**
FSP-KT-4	Fuel Gasket Kit	05-06824	**$20.50**
MC751-882	Gasket, Upper Seal	05-06825	**$10.99**
MC753-205	Gasket, Lower Seal	05-06826	**$21.90**
MC757-255	O-Ring, Upper Seal	05-06827	**$14.80**
MC751-898	Gasket, Lower Seal	05-06828	**$17.50**
CA751-871	Gasket, Fuel Strainer	05-06829	**$20.50**
MS29513-008	O-Ring	05-00126	**$0.58**
MS29513-043	O-Ring	05-06830	**$55.75**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

(FAA/PMA APPROVED)

PIPER NOSE COWLING
(ALL METAL)

PA 12 & 14

PA-20-22

J-3 & PA-11

Description	Part No.	Price
PA-11, For cowls using screws	05-07295	$2,170.00
PA-11, For cowls using Lion fasteners	05-07305	$1,743.00
J-3 Eyebrow baffle LH	05-00061	$838.00
J-3 Eyebrow baffle RH	05-00062	$838.00
Front piece for Top cowl	05-00063	$761.00
Top cowl for J-3	05-00064	$1,063.00
Bottom cowl for Continental powered J-3	05-00065	$1,576.00
Front piece for bottom cowl	05-00066	$1,073.00
Fuselage cowl	05-00067	$1,269.00
Top cowl for PA-11	05-00068	$245.95
Bottom cowl for PA-11	05-00069	$496.00
Side cowl for PA-11LH	05-00071	$557.00
Side cowl for PA-11 RH	05-00072	$557.00

PA-12

Bottom cowl	05-00078	$430.00
Top cowl	05-00079	$258.95
Fuselage cowl	05-00081	$2,028.00
Left side cowl	05-00082	$664.00
Right side cowl	05-00083	$664.00

PA-12 & 14

Nose cowl for all serial numbers	05-07310	$2,358.00

PA-18 (95 HP)

PA-18, For cowls using screws	05-07295	$2,170.00
PA-18, For cowls using Lion fasteners	05-07305	$1,743.00
Left side cowl, used w/shielded ignition lead	05-00073	$540.00
Right side cowl, used w/shielded ignition lead	05-00074	$550.00
Top cowl	05-00075	$238.95
Bottom cowl	05-00076	$536.00
Bottom cowl, installed w/machine screws	05-00077	$466.00

PA-18 - 105, 125, 135, 150 HP

Fuselage cowl, S/N 2168-5938,105,125,135HP	05-00089	$2,090.00
Fuselage cowl, S/N 5939-8019, 135, 150 HP	05-00091	$2,039.00
Fuselage cowl, S/N 8020 and up, 150 HP	05-00092	$1,948.00
PA-18-105 thru 125 HP, no starter hole	05-07315	$1,815.00
PA-18-105 thru 125 HP, with starter hole	05-07320	$2,364.00
PA-18-135 & 150 HP, w/starter hole & oil scoop	05-07325	$2,507.00
PA-18-135 & 150 HP, w/oil scoop, no starter hole	05-07330	$2,210.00
Top cowl, 105 HP	05-00093	$446.00
Top cowl, 125, 135, 150 HP	05-00094	$390.00
Left side cowl, 105 HP	05-00095	$686.00
Right side cowl, 105 HP	05-00096	$686.00
Left side cowl, 125, 135, 150 HP	05-00097	$811.00
Right side cowl, 125, 135, 150 HP	05-00098	$757.00
Lower cowl ass'y, 135 HP, S/N 3014 thru 4617	05-00099	$1,495.00
Lower cowl ass'y, 150 HP, S/N 6964 and up	05-00102	$1,886.00

PA-20 & PA-22

PA-22-108, S/N 8000 & up, w/o oil scoop	05-07345	$2,054.00
PA-20 Nose cowl, 115 HP	05-07335	$2,113.00
PA-22 Nose cowl, S/N 1 thru 533	05-07335	$2,113.00
PA-20 Nose cowl, 135 HP	05-07340	$2,732.00
PA-20 Bottom cowl, 125 HP	05-00049	$1,887.00
PA-20 Bottom cowl, 135 HP	05-00051	$1,571.00
PA-22 Bottom cowl, 125 HP, S/N 1 – 353	05-00052	$2,265.00
PA-22 Bottom cowl, 125 HP, S/N 354 – 533	05-00053	$2,236.00
PA-22 Bottom cowl, 125 HP, S/N 534 – 1759	05-00054	$1,977.00
PA-22 Bottom cowl,135-160HP,S/N 1760–7630	05-00055	$4,581.00
PA-22(Colt) Bottom cowl, 108HP,S/N 8000 &up	05-00056	$4,590.00
PA-22 Left side cowl	05-00057	$742.00
PA-22 Right side cowl	05-00058	$740.00
PA-20/22 Top center cowl	05-00059	$497.00
PA-25 Pawnee Nose cowl, 150 HP	05-07340	$2,732.00

ONE PIECE STAMPED ALUMINUM RIBS
(STC APPROVED)

These durable ribs are direct replacements for the original style "Truss" type ribs originally used by Piper. These ribs are designed for the various modes of Piper including J-3 and PA-18 with metal spars. The ribs listed are the more commonly requested ribs for this series.

Description	Part No.	Replaces	Price
Nose Rib, Tip R/H	05-07375	16192-001	$44.85
Full Rib	05-07380	13052-002	$253.95
Full Butt Rib, L/H	05-07385	10634-000	$295.95
Full Butt Rib, R/H	05-07390	10634-008	$274.95
Full Tank Bay Rib, L/H	05-07395	10653-000	$234.95
Full Tank Bay Rib, R/H	05-07405	10653-006	$215.95
Full I.B. Ail. Bay, L/H	05-07410	13042-000	$203.95
Full I.B. Ail. Bay, R/H	05-07415	13042-001	$228.95
3/4 Butt Rib, L/H	05-02396	10634-005	$350.00
3/4 Tank Bay Rib	05-02397	10635-002	$217.95

STABILIZER LINER TUBE

Forward Link Assembly Liner Tube (U86062-080) ... P/N 05-07450 ... $161.75
Rear Liner Tube (U86062-079) ... P/N 05-07455 ... $104.75

STABILIZER YOKE & ADJUSTMENT SCREW

Yoke ... P/N 05-07465 ... $383.00
Adjustment Screw ... P/N 05-07470 ... $152.85

CA452-538 PIPER STABILATOR BEARING

CA452-538 Piper stabilator bearing.
P/N 05-04626 ... $573.00

WING NAVIGATION LIGHT BRACKET

For use with Grimes Model "E" Type Light or equivalent.
P/N 05-07460 ... $162.75

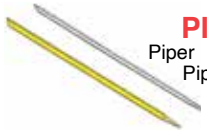
ENGINE MOUNTS

J-3 Continental Mount ... P/N 05-00873 ... 1,449.00
PA-11 Mount ... P/N 05-00874 ... $1,300.00

J-3, PA-11, PA-18

Left Gear, uncovered ... P/N 05-07350 ... $1,121.00
Right Gear, uncovered ... P/N 05-07355 ... $1,071.00

PIPER METAL WING SPARS



Piper Metal Wing Spars. Metal spar. Applicability: Piper J-3, PA-11, PA-18-95. Highlighted part in illustration. FAA/PMA approved.

Description	Part Number	Price
J-3 & Pa-11 Front LH Wing Spar	05-00875	$552.00
J-3 & Pa-11 Front Right Wing Spar	05-12728	$543.00
J-3 & Pa-11 Rear LH Wing Spar	05-06993	$452.00
J-3 & Pa-11 Rear Right Wing Spar	05-12729	$434.00

PIPER HEATER TEMPERATURE CONTROL LOCK

For years Piper PA28 and PA32 owners have been plagued with a Heater Temperature Control that will not stay positioned. This Heater Temperature Control Lock that can be installed in minutes and provides a positive adjustable lock for the Heater Control Lever.
P/N 08-04939 ... $37.50

VERTICAL FIN EXP40592-00

Vertical Fin for Piper J-3/PA-11/PA-18. Experimental Only. Duplicate Part. Built to the same specifications as OEM 40592-00. ... P/N 05-12467 ... $435.00

AP

LIFT STRUTS FOR PIPER AIRCRAFT

05-21961

Eliminate repetitive AD inspections of your struts and Forks. These struts include the new heavy duty, heat treated, 5/8" rolled thread strut fork and nut.

Model Number	Description	Part Number	Price
U85556-002	PA-15/17 Front Lift Strut	05-21961	**$1,064.00**
U85557-002	PA-15/17 Rear Lift Strut	05-21962	**$1,049.00**
U85558-002	PA-16 Front Lift Strut	05-21963	**$1,029.00**

LIFT STRUT FORKS FOR PIPER AIRCRAFT

Model Number	Description	Part Number	Price
U1600-01	5/8 Lift Strut Fork PA-15 & PA-17 Stainless Steel	05-21964	**$209.95**
U11281-005	3/8 Inch Lift Strut Fork for PA-15 & Pa-17 U11281-005	05-21965	**$361.00**

AP

PA-15 AND PA-17 STABILIZER TUBE

Univair PA-15 & PA-17 Stabilizer Tube .....P/N 05-21971 .....**$281.95**

PIPER PA-15/17 UNCOVERED AILERONS

Model Number	Description	Part Number	Price
U42585-000	Left Uncovered Aileron	05-21956	**$1,886.00**
U42585-001	Right Uncovered Aileron	05-21957	**$1,790.00**

PIPER CONTROL SYSTEMS

Model Number	Description	Part No.	Price
U40572-000	Elevator Uncovered	05-21951	**$925.00**
U40622-000	Vertical Stabilizer	05-21952	**$1,012.00**
U40643-000	Horizontal Stabilizer Uncovered	05-21953	**$987.00**
PSK-1	Rudder Attach Hardware	05-21954	**$43.50**
PSK-2	Elevator Attach Hardware	05-21955	**$89.75**

SEE WWW.AIRCRAFTSPRUCE.CA FOR AIRCRAFT MODEL APPLICABILITY.

PIPER DECALS

Description	Part No.	Price
PA-15 Piper Cub Vagabond Blue Letters Decal	05-21958	**$19.50**
PA-17 Trainer Blue Letter Decal	05-21959	**$20.50**
PA-16 Piper Clipper Gold/Red Lettrs Black Trim Decal	05-21960	**$19.50**

PIPER PA-15 / 17 WING RIBS

05-21925

Model Number	Description	Part Number	Price
U1233-00	PA-15/17 3/4 Rib Left or Right #4	05-21925	**$166.75**
U1228-02	PA-15/17 Inboard Aileron Bay Rib Left #3	05-21926	**$183.75**
U1228-03	PA-15/17 Inboard Aileron Bay Rib Right #3	05-21927	**$183.75**
U01228-05	PA-15/17 Full Rib Left or Right #2	05-21928	**$151.75**
U1227-02	PA-15/17 Butt Rib Left #1	05-21929	**$183.75**
U1227-03	PA-15/17 Butt Rib Right #1	05-21930	**$233.95**
U1229-00	PA-16 Butt Rib Left #	05-21931	**$237.95**
U1224-00	PA-16 Tank Bay Rib Left #2	05-21932	**$211.95**
U1232-00	PA-16 Inboard Aileron Bay Rib Left #3	05-21933	**$140.75**
U1225-02	PA-16 3/4 Tank Bay Rib Left #4	05-21934	**$217.95**
U1228-05	PA-16 Full Rib Right #2	05-21935	**$174.95**
U1228-03	PA-16 Inboard Aileron Bay Rib Right #3	05-21936	**$203.95**
U1233-00	PA-16 3/4 Rib Left #5 Right #4	05-21937	**$184.75**
U1227-03	PA-16 Butt Rib Right #1	05-21939	**$249.95**
RK-1501	PA-15/17 Rib Kit Left	05-21940	**$1,770.00**
RK-1502	PA-15/17 Rib Kit Right	05-21941	**$1,897.00**
RK-1601	PA-16 Rib Kit Left	05-21942	**$1,955.00**
RK-1602	PA-16 Rib Kit Right	05-21943	**$1,861.00**
15/17FM	PA-15/17 Flight Manual	05-21944	**$11.75**
16PS	PA-16 Paint Scheme Manual	05-21945	**$1.90**

PIPER PA-16 WING RIBS

05-21931

Model Number	Description	Part Number	Price
U1229-00	PA-16 Butt Rib Left #1	05-21931	**$237.95**
U1224-00	PA-16 Tank Bay Rib Left #2	05-21932	**$211.95**
U1232-00	PA-16 Inboard Aileron Bay Rib Left #3	05-21933	**$140.75**
U1225-02	PA-16 3/4 Tank Bay Rib Left #4	05-21934	**$217.95**
U1228-05	PA-16 Full Rib Right #2	05-21935	**$174.95**
U1228-03	PA-16 Inboard Aileron Bay Rib Right #3	05-21936	**$203.95**
U1233-00	PA-16 3/4 Rib Left #5 Right #4	05-21937	**$184.75**
U1227-03	PA-16 Butt Rib Right #1	05-21939	**$249.95**

RIB KITS

05-21940

Model Number	Description	Part Number	Price
RK-1501	PA-15/17 Rib Kit Left	05-21940	**$1,770.00**
RK-1502	PA-15/17 Rib Kit Right	05-21941	**$1,897.00**
RK-1601	PA-16 Rib Kit Left	05-21942	**$1,955.00**
RK-1602	PA-16 Rib Kit Right	05-21943	**$1,861.00**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

PIPER PARTS

(FAA/PMA APPROVED)

SPINNER ASSEMBLIES & COMPONENTS

Short Spinner Assembly for Piper
Models PA-12, PA-16, PA-18, PA-20 & PA-22 with O-235 or O-290 engines with AM series Sensenich propellers.
Spinner Dome ..... P/N 05-07670 ..... **$481.00**
Front Plate ..... P/N 05-07675 ..... **$214.95**
Back Plate ..... P/N 05-07680 ..... **$230.95**
Complete Assembly ..... P/N 05-07685 ..... **$824.00**

PA-25 Spinner Components
Assembly for Fixed Pitch Propellers serial numbers 2986-3691
Back Plate ..... P/N 05-07695 ..... **$272.95**
Front Plate ..... P/N 05-07705 ..... **$241.95**
Complete Assembly ..... P/N 05-07710 ..... **$961.00**

Spinner Components for 235 hp. with FA8452 McCauley Propeller.
Dome Only ..... P/N 05-07715 ..... **$710.00**
Back Plate ..... P/N 05-07720 ..... **$374.00**
Front Plate ..... P/N 05-07725 ..... **$336.00**
Spinner Assembly for PA-18/18A, 150 hp.For Dm Series Propellers.
Spinner Dome ..... P/N 05-07730 ..... **$690.00**
Front Plate ..... P/N 05-07735 ..... **$265.95**
Back Plate ..... P/N 05-07740 ..... **$339.00**
Complete Assembly ..... P/N 05-07745... ... **$1,004.00**

RIB KITS FOR PIPERS

Description	Part Number	Price
J3 RIB KIT (LH)	05-02373	**$2,433.00**
J3 RIB KIT (RH)	05-02374	**$2,302.00**
PA18-150 RIB KIT (LH)	05-02375	**$2,749.00**
PA18-150 RIB KIT (RH)	05-02376	**$2,762.00**

INDIVIDUAL RIBS FOR PIPERS

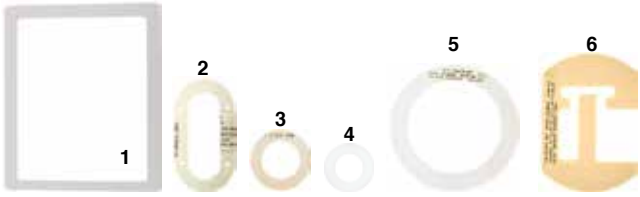
J-3

Piper#	Our P/N	Description	Price	# Per Wing
10742-002	05-02407	Tip Rib, LH #13	**$246.95**	1
10742-003	05-02394	Tip Rib, RH #13	**$259.95**	1
12662-002	05-02389	Nose Rib	**$42.80**	10
12902-000	05-02387	Outboard Aileron Bay Rib, LH #12	**$256.95**	1
12902-001	05-02393	Outboard Aileron Bay Rib, RH #12	**$256.95**	1
13022-002	05-02386	3/4 Rib, #10 and #11	**$200.75**	2
13022-002	05-02383	3/4 Rib, LH or RH #7	**$176.75**	1
13022-002	05-02384	3/4 Rib, LH or RH #8	**$214.95**	1
13022-005	05-02382	3/4 Rib. LH or RH #6	**$162.75**	1
13022-006	05-02385	3/4 Rib, #9 at strut point	**$303.00**	1
13042-000	05-02381	Inboard Aileron Bay Rib, LH #5	**$201.95**	1
13042-001	05-02392	Inboard Aileron Bay Rib, RH #5	**$213.95**	1
13052-002	05-02379	Full Rib, LH or RH #2	**$216.95**	1
13052-004	05-02378	Butt Rib, LH #1	**$253.95**	1
13052-004	05-02391	Butt Rib, RH #1	**$271.95**	1
15712-000	05-02390	Nose Rib at strut point	**$61.75**	1
16192-000	05-02377	Tip Nose Rib, LH	**$48.50**	1

PA-18 150 HP

Piper#	Our P/N	Description	Price	# Per Wing
10634-0 05	05-02396	Butt Rib, LH #1	**$350.00**	1
10634-007	05-02404	Butt Rib, RH #1	**$341.00**	1
10635-002	05-02397	Tank Bay Rib, #2 and #3	**$217.95**	2
10653-002	05-02398	3/4 Rib, LH #4	**$226.95**	1
10653-005	05-02405	3/4 Rib, RH #4	**$235.95**	1
10742-002	05-02407	Tip Rib, LH #16	**$246.95**	1
10742-003	05-02394	Tip Rip, RH #16	**$259.95**	1
12662-002	05-02389	Nose Rib	**$42.80**	10
12902-000	05-02387	Outboard Aileron Bay Rib, LH #15	**$256.95**	1
12902-001	05-02393	Outboard Aileron Bay Rib, RH #15	**$256.95**	1
13022-002	05-02386	3/4 Rib, #10, #13 and #14	**$200.75**	3
13022-009	05-02385	3/4 Rib, LH or RH, #11	**$303.00**	1
13022-010	05-02403	3/4 Rib, LH or RH, #8	**$227.95**	1
13022-011	05-02386	3/4 Rib, LH or RH, #9 and #12	**$200.75**	2
13042-002	05-02402	3/4 Rib, LH #7	**$214.95**	1
13042-003	05-04857	3/4 Rib RH #7	**$242.95**	1
13042-003	05-04587	3/4 Rib, RH #7	**$29.70**	1
13052-007	05-02399	3/4 Rib, LH or RH, #5	**$250.95**	1
13052-009	05-02406	3/4 Rib, RH #6	**$278.95**	1
13052-010	05-02401	3/4 Rib, LH #6	**$205.95**	1
15712-000	05-02390	Nose Rib at strut point	**$61.75**	1
16192-000	05-02377	Tip Nose Rib, LH	**$48.50**	1
6192-001	05-02393	Tip Nose Rib, RH	**$256.95**	1

COMMON PIPER GROMMETS



1) Grommet, Tail ..... P/N 05-07750 ..... **$21.60**
2) Grommet ..... P/N 05-07755 ..... **$27.50**
3) Grommet ..... P/N 05-07765 ..... **$7.50**
4) Grommet ..... P/N 05-07770 ..... **$7.50**
5) Grommet, Inspection Plate (original Piper type: 80122-49)
P/N 05-07775 ..... **$13.50**
6) Grommet, Strut ..... P/N 05-07780 ..... **$14.70**

7) Grommet, Tail (used on PA-25 and later PA-18's)
P/N 05-07785 ..... **$48.99**
8) Grommet, Tail ..... P/N 05-07790 ..... **$17.50**
9) Grommet, Cover ..... P/N 05-07795 ..... **$20.50**
10) Grommet, Pulley Cover ..... P/N 05-07800 ..... **$18.65**

PIPER FABRIC REINFORCEMENTS

Model	Dimension	Part No.	Price
U60863-005	2"W x 4-1/2"L	05-07625	**$14.50**
U60863-003	2"W x 4-1/2"L	05-07635	**$6.50**
U60863-002	2"W x 4-1/2"L	05-07630	**$6.50**
U60481-000	2"W x 4-1/2"L	05-07620	**$13.50**
U60863-009	2"W x 2-1/2"L	05-07640	**$16.50**

J-3 FUEL VALVE

This J-3 fuel valve includes a steel handle for use with the original pushpull shut off control. this valve is a significant improvement over the original brass style fuel valve. The new valve has a stainless steel ball seated in an inert composite seat. This improved design eliminates the stiff operation and leaking around the shaft that the original design was prone to.
PMA approved ..... P/N 05-00848 ..... **$255.95**

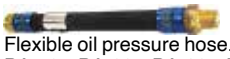
J-3/PA-11 THROTTLE CONTROL

FAA approved replacement throttle control.
P/N 05-03397 ..... **$725.00**

FLEXIBLE RUBBER BRAKE LINE

From brake master cylinder to copper lines on gear vee ..... P/N 05-07530 ..... **$233.95**

OIL PRESSURE HOSE



Flexible oil pressure hose. Applicability: Piper J-3, PA-11, PA-14, PA-16, PA-18, PA-20, PA-22, PA-28. Length: 6-3/4". FAA/PMA approved. Supercedes part numbers 71061-000, 71061-00.
P/N 05-07360 ..... **$199.80**

WING TIP BOWS

Preformed wooden wing tip bows for use in all Piper Aircraft Models J-3 to PA-22. It is recommended to soak the wing tip bows in water before installation to avoid breakage... P/N 02-18500 ..... **$72.80/ea.**
Note: Wing tip bows can be shipped via UPS with an oversized package rate equal to the 30 Lb. rate.

AP

HEAVY DUTY MUFFLER

Heavy Duty Muffler STC/PMA
P/N 05-03475 .....**$1,512.00**

PRE-HEAT SHROUD PA-18

Pre-heat shroud PA-18 STC/PMA
P/N 05-03457 .....**$528.00**

HEADER TANKS

Heavy duty light weight design is approximately 9 oz. PA-18, PA-19 STC
Front .....05-03468 .....**$653.00**
Rear.....05-03469 .....**$514.00**

PIPER DOOR HINGE CLEVIS PINS

Due to normal wear and lack of lube, the door hinge clevis pins should be replaced from time to time to maintain the proper operation of the doors. The set includes 2 clevis pins, 2 thick washers, 2 thin washers, and 2 cotter keys. All the hardware is FAA approved for Piper PA28, PA32, and PA34 aircraft.....P/N 05-03633 .....**$13.50**

PIPER DOOR HINGE EYEBOLT SET

The eyebolts are probably the most neglected parts on the plane. They hardly ever get lubricated and due to their exposure to the elements, rust in the pivot point can prevent the door from closing properly and should be replaced from time to time as they wear. The set contains two of the proper eyebolts and detailed installation instructions. The hardware is FAA approved for Piper PA28, PA32, and PA34 aircraft.
Rear Door.....P/N 05-03636 .....**$46.75**
Front Door .....P/N 05-03635 .....**$47.65**

FOLDING JUMP SEATS

Folding Jump Seats - 170, 172, 172S, 175, 180, 180K, 182, 182R, 185, A185F STC/PMA

Description	Part No.	Price
Right hand pair	05-03470	**$2,966.00**
Left & right hand pair	05-03472	**$2,966.00**

FOLDING FRONT SEAT KIT

Kit STC .....P/N 05-03474 .....**$780.00**

PIPER PA-34 EXTERIOR PASSENGER DOOR HANDLE

Piper PA-34 exterior passenger door handle. Cabin Door Handle (Plastic). **Dimensions**: 1" x 3" x 0.75" (WxLxH) ..... P/N 05-12476 .....**$36.60**

BUSHING WITH RETAINING RING FOR PIPER AIRCRAFT

COWL BUSHING R-RING MC69790-00 - Material that outlasts the original nylon or glass filled teflon materials. Used on most Piper Cherokee models. Includes the retaining ring (snap ring).
P/N 05-01764 .....**$46.50**

COWL PLATE ASSEMBLY MC69791-000 - Stainless steel mounting plate with MC69790-00 teflon glass bushing and MC484-840 retaining ring. Upper cowl retaining part for most Piper Cherokee models ....P/N 05-04476 .....**$105.95**

PIPER PA-28-181 ENGINE BAFFLES

Model No.	Description	Part No.	Price
AF63605-00	Baffle	05-12684	**$44.85**
AF85485-002	Baffle	05-12685	**$289.95**
AF85485-004	Baffle	05-12686	**$437.00**
AF85485-014	Baffle	05-12687	**$289.95**
AF85485-015	Baffle	05-12688	**$270.95**
AF85486-002	Baffle	05-12689	**$747.00**
AF85486-003	Baffle	05-12690	**$747.00**
AF85486-009	Baffle	05-12691	**$30.50**
AF85487-002	Baffle	05-12692	**$793.00**
AF85487-003	Baffle	05-12693	**$579.00**

PIPER 31 ENGINE BAFFLE

AF41606-13.....P/N 05-12679 .....**$1,136.00**

V-BELTS FOR PIPER AIRCRAFT

This V-Belt has received FAA-PMA approval for a high quality V-Belt used on many Piper aircraft.

OEM PN	Description	Part No.	Price
M73965-003	V-BELT A37.50	05-26633	**$119.75**
M73965-009	V-BELT B40.55	05-26634	**$136.75**
M73965-010	V-BELT C40.55	05-26635	**$179.75**
M73965-011	V-BELT D35.00	05-26636	**$129.75**
M73965-016	V-BELT E39.09	05-26637	**$126.75**
M73965-020	V-BELT E42.08	05-26638	**$133.75**
M73965-023	V-BELT E22.08	05-26639	**$136.75**

VENTED FUEL CAPS

Vented Fuel Caps J3 thru PA-22 STC
P/N 05-03459 .....**$191.75**

180HP FUEL CAP

180 Fuel Cap PA-12 thru PA-18 with 180HP Engine.
P/N 05-03458 .....**$188.75**

UNDER SEAT BATTERY RACK

Under Seat Battery Rack PA 18 STC
P/N 05-03460 .....**$782.00**

REFUELING STEP

Refueling Step J3 thru PA-22 STC. Note: Priced and sold each. Image is for reference only. Does not come as a pair ...P/N 05-03462 .....**$250.95**

MAIN LANDING GEAR LONG STEP

Main landing gear Long Step J3 thru PA-19 STC
P/N 05-03461 .....**$524.00**

WELD ON AIRCRAFT FLOAT FITTINGS

Weld on aircraft float fittings PA-12, -14, PN 05-03476 PA-18 PN 05-03477 STC
Float Fittings PA-12/14.....P/N 05-03476 .....**$1,495.00**
Float Fittings PA-18.....P/N 05-03477 .....**$960.00**

MAIN LANDING GEAR SAFETY CABLES

Main Landing Gear Safety Cables (All STC)
Standard Gear J-3, PA-11, PA-18, PA-19...PN 05-03463 .....**$410.00**
3" Extension Gear.....PN 05-03464 .....**$388.00**
Standard Gear PA-12, PA-14.....PN 05-03465 .....**$350.00**
3" Extended Gear PA-12, PA-14 .....PN 05-03466 .....**$406.00**

AILERON HINGE FOR PIPER

Piper Eligibility PA-28-140,-150, -160, -180, -235; PA-28R-180,-200,-201,-201T; PA-28-181, -236, -201T; PA-28-181,-236, -201T; PA-32-260, -300; PA-32R-300; PA-32-RT-300, -300T; PA-34-200
P/N 05-04197 ...**$165.75 ea.**

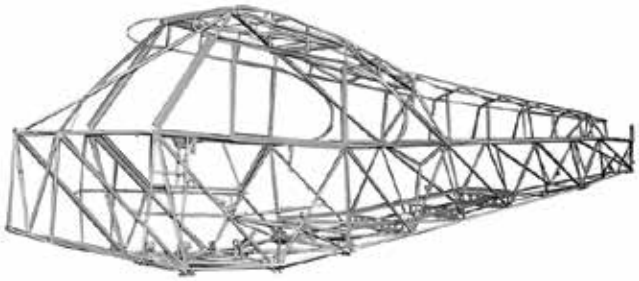
PIPER J3 EXHAUST SYSTEM

New Manufactured, FAA/PMA Approved, Stainless Steel Original Design, Exhaust Headers and Muffler with Safety Bail already installed.
1- Left exhaust stack.....P/N 05-07475 .....**$1,109.00**
2- Right exhaust stack.....P/N 05-07480 .....**$1,107.00**
3- Muffler Assembly, less shroud.....P/N 05-07485 .....**$1,176.00**
4- Tailpipe .....P/N 05-07490 .....**$441.00**
5- Tailpipe Shroud.....P/N 05-07495 .....**$332.00**
6- Muffler Shroud .....P/N 05-07505 .....**$633.00**
7- Slide Clip.....P/N 05-07510 .....**$86.75**
8- Muffler stack connecting clamp (2 req.) .P/N 05-07515 .....**$50.50**
9- Tailpipe brace clamp.....P/N 05-07520 .....**$57.75**
10- Muffler clamp .....P/N 05-07525 .....**$50.50**

PIPER DOOR LATCH CLEVIS PIN

Restore solid latching of the doors to the fuselage Due to normal wear and lack of lube, the door latch clevis pin should be replaced from time to time to maintain the proper operation of the door. The set includes 1 clevis pin and 1 cotter key. All the hardware is FAA approved for Piper PA28, PA32, and PA34 aircraft.
P/N 05-04644 .....**$9.60**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.



COMPLETE SUPERCUB FUSELAGE

Replacement fuselage for the PA 18 Supercub incorporating the latest improvements and mods. The fuselage tubes and fittings are all 4130 steel and the standard mods are: "X" reinforcement in the top deck, extended baggage with "dog leg" bulkhead reversed, standard baggage area increased to 180 lbs. capacity, removable rear seat bar, reinforcement sleeves under stabilizer attach bracket, modernized tabs and attach brackets. Completely FAA approved under PMA and STC. Excellent workmanship.

P/N 05-00466.....**$23,886.00**

Shipped freight collect from factory in Alaska.
Add $500 crate fee.

PA18 UPPER DOOR

Constructed using all square tubing. FAA approved. .....P/N 05-00459 .....**$1,358.00**

PA18 LOWER DOOR

Latching mechanism greatly improved over original. Utilizes push rods instead of wires. Powder coated ....P/N 05-00460 .....**$1,216.00**

PA18 STABILIZER

Bushings installed, powder coated and ready to cover. FAA-PMA approved.

P/N 05-00461 .....**$1,011.00**

PA18 ELEVATOR

Bushings installed, powder coated and ready to cover. FAA-PMA approved.

P/N 05-00462 .....**$823.00**

PA18 RUDDER

Bushings installed, powder coated and ready to cover. FAA-PMA approved.

P/N 05-00463 .....**$982.00**

PA18 VERTICAL FIN

Bushings installed, powder coated and ready to cover. FAA-PMA approved.

P/N 05-00464 .....**$660.00**

$10 crate charge for all items above

PA18 TAILPOST

Bushings installed, powder coated and ready to cover. FAA-PMA approved.

P/N 05-00465 .....**$219.95**

FLAP HINGE-OUTBOARD

For fabric wing piper models, powder coated. FAA-PMA approved.

P/N 05-00480 .....**$140.75**

PA 18 FUSELAGE HANDLE

Oversized lifting handle can be used with winter gloves, 8" long with 2" clearance. Weld on, FAA-PMA approved.

P/N 05-00477 .....**$58.75**

AILERON HINGE

For fabric wing piper models. Powder coated. FAA-PMA approved.

P/N 05-00478 .....**$112.85**

PA-18 8.5' SPAR BLANK

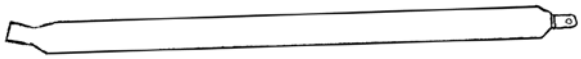
P/N 05-03596 .....**$116.99**

PIPER PA-18 BLANK INSTRUMENT PANEL

Piper PA-18 Blank instrument panel.
Specifications: • 8 inches high
Applicability: Piper PA-18

P/N 05-22400 .....**$158.75**

SEALED LIFT STRUTS
WITH HEAVY DUTY FORKS



FAA-PMA - complies with all A.D.'s - high strength struts will not fail under wind or snow loads. $20 CRATE CHARGE FOR LIFT STRUTS

Description	Part Number	Price
PA 18 Front Lift Strut	05-00485	**$856.00**
PA 18 Heavy Duty Rear Lift Strut	05-00486	**$994.00**
PA 12-14 Front Lift Strut	05-00487	**$867.00**
PA 12-14 High Strength Rear Lift Strut	05-00488	**$867.00**
PA18 Rear Lift Strut	05-03868	**$853.00**
J-3 Front Strut	05-04931	**$1,013.00**
J-3 Rear Strut	05-04932	**$830.00**

PA18 ARCHES FOR FABRIC FORMERS

Complete set of 6 "turtle deck" arches precut to correct size, weld on as is. FAA-PMA

Per Set.....P/N 04-00469 .....**$467.00**

PA 18 WING FITTINGS

Weld on, FAA-PMA approved.

Front left side.....P/N 05-00470 .....**$199.80**
Front right side.....P/N 05-00471 .....**$185.99**
Rear left side.....P/N 05-00472 .....**$57.75**
Rear right side .....P/N 05-00473 .....**$58.75**

PA 18 LANDING GEAR / LIFT STRUT FITTING

Piper PA-18 Landing Gear and Lift Strut fitting. Weld on, FAA-PMA approved. Left or right hand. Supercedes U12184-003.

P/N 05-00475 .....**$298.95**

PA 18 FRONT GEAR FITTING

Weld on, FAA-PMA approved. Fits right or left side.

P/N 05-00476 .....**$280.95**

WELD-ON FLOAT FITTING

Weld-on float fitting for all models Piper Supercub, PA18. FAA approved by STC. Weighs less than similar fittings.

Pair.....P/N 05-02529 .....**$921.00**

PA-18 125 135 150 EXHAUST SYSTEM

PA-18 Exhaust Systems - FAA/PMA Approved
PA-18 125, 135, 150 hp. Exhaust System

Description	Part No.	Price
Muffler and Shroud Assy. (Pictured)	05-07560	**$2,709.00**
Muffler Clamp, SN 1-3013 (2 Req.)	05-07515	**$50.50**
Muffler Clamp, SN 3014 and up (2 Req.)	05-07570	**$50.50**
Muffler Shroud 150HP.	05-07585	**$646.00**
Front Shroud Assy.	05-07590	**$343.00**
Front Cylinders Stack Assy.	05-07595	**$1,459.00**
Rear Cylinders Stack Assy.	05-07605	**$1,521.00**
Clip (for 12436-000/-010)	05-07610	**$62.90**
Clip (for 14239-000)	05-07615	**$74.75**

AP

PA-18 SUPERCUB PARTS

FRONT LOWER WINDOW CHANNEL
Left Side ..... FAA-PMA..... P/N 05-00491..... **$33.85**

AFT LOWER WINDOW CHANNEL
Left Side ..... FAA-PMA..... P/N 05-00492..... **$119.75**

FRONT WINDOW CHANNEL
Left Side ..... FAA-PMA..... P/N 05-00493..... **$86.90**

UPPER WINDOW FORMER
Left Side ..... FAA-PMA..... P/N 05-00494..... **$86.90**

FORWARD VERTICAL WINDOW CHANNEL
Left Side ..... FAA-PMA..... P/N 05-00495..... **$46.80**

AFT VERTICAL WINDOW CHANNEL
Left Side ..... FAA-PMA..... P/N 05-00496..... **$32.50**

PIPER PA-18 FAIRINGS

Examples of Fairings are for Reference Only!

Description	A/C Model	Part No.	Price
Upper Wing Root Fairing	Piper PA-14, PA-15, PA-16, PA-17, PA-18, PA-20, PA-22	05-14961	**$100.75**
Bottom Front Wing Root Fairing - Left	Piper PA-18	05-07572	**$89.75**
Bottom Front Wing Root Fairing - Right	Piper PA-18	05-07573	**$85.75**
Rear Bottom Fairing - Left	Piper PA-18	05-07574	**$100.75**
Rear Bottom Fairing - Right	Piper PA-18	05-07576	**$95.75**
Wing Root Fairing - Left	Piper PA-18	05-07579	**$115.95**
Wing Root Fairing - Right	Piper PA-18	05-07581	**$110.75**
Fairing Attachment Plate - Left	Piper PA-18	05-07582	**$146.75**
Fairing Attachment Plate - Right	Piper PA-18	05-07583	**$129.75**

ADDITIONAL FAA-PMA PARTS FOR PA18 SUPERCUB

Description	Part No.	Price
Piper hinge - half	05-00510	**$19.50**
Interior tab	05-00511	**$9.65**
Pulley bracket	05-00512	**$24.50**
Pulley bracket	05-00513	**$24.50**
Forward elevator pulley half	05-00514	**$40.75**
Flap lever hinge - weld on fuselage or seat	05-00516	**$62.90**
Shock strut	05-00518	**$288.95**
Fuel selector bracket	05-00520	**$43.90**
Tailspring bracket	05-00521	**$57.75**
Tailspring mount pad - forward	05-00522	**$49.50**
Aileron pulley bracket	05-00523	**$15.90**
Floorboard tabs	05-00525	**$11.75**
Cabane Vee	05-00526	**$688.00**
Elevator horn	05-00530	**$53.75**
Rudder horn blank	05-00531	**$78.75**
RH Rudder Pedal Assembly	05-00532	**$196.99**
LH Rudder Pedal Assembly	05-00533	**$195.75**
RH Brake Pedal Assembly	05-00534	**$278.95**
LH Brake Pedal Assembly	05-00535	**$278.95**
3/8" U Channel - 6' Lengths	05-04564	**$18.65**
Muffler Assembly - PA18 150 hp	05-00544	**$1,209.00**

PA18 LANDING GEAR

Specify right or left side.
11/4 axle, heavy duty; FAA-PMA
P/N 05-00489 ..... **$1,277.00**
11/2 axle, heavy duty; FAA-PMA
LEFT.....P/N 05-00490 ..... **$1,364.00**
1-1/2 Axle, Heavy Duty, FAA/PMA
RIGHT .....P/N 05-11813 ..... **$1,361.00**
LANDING GEAR AVAILABLE – CALL FOR QUOTE!

REAR TORQUE TUBE SUPPORT & BEARING

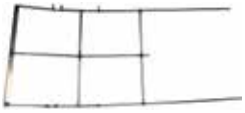
Weld on; FAA-PMA .....P/N 05-00497 ..... **$282.95**

FRONT TORQUE TUBE SUPPORT & BEARING

Weld on; FAA-PMA .....P/N 05-00498 ..... **$363.00**

HEAVY DUTY 5/8 LIFT STRUT FORK

Rolled threads, stainless, heat treated.
P/N 05-00501 ..... **$198.75**



TOP DECK SUPERSTRUCTURE

P/N 05-00502 ..... **$1,107.00**
$30 CRATE FEE

JACK SCREW TOWER

P/N 05-00503 ..... **$506.00**
$20 CRATE FEE

MUFFLER BAIL U452-093

Muffler Bail Welded inside muffler outlet to guard against Flame Tube failure and obstruction of exhaust outlet.
P/N 05-02150 ..... **$64.75**

TAIL REPAIR SECTION - 4'

Without Jack screw tower.
P/N 05-00504 ..... **$4,382.00**
With Jack screw tower
P/N 05-00505 ..... **$2,326.00**
$20 CRATE FEE

FUEL QUANTITY TRANSMITTER FOR PIPER AIRCRAFT

McFarlane fuel quantity transmitters are a direct replacements for originally installed Stewart Warner type fuel quantity transmitters. Eliminates the need for expensive transmitter conversion kits that require replacement of fuel gauges and wiring. These transmitters are engineered to be compatible with the original fuel quantity gauge and wiring which uses time proven technology and reliability.

Each transmitter is manufactured using the new Stewart Warner "thick film ceramic" resistor technology. The benefits are longer life and increased accuracy. All components are thoroughly tested to ensure reliable operation.

NOTE: Does NOT include screw/seal assembly or gasket (see accessories to order separately).

MC68101-02 kit .....P/N 05-04874 ..... **$642.00**

Accessories - See our website for application information.

Transmitter MC68101-02 .....P/N 05-04870 ..... **$591.00**
Gasket MC461-931 .....P/N 05-04871 ..... **$21.70**
GA Gasket SKET MC462-021 .....P/N 05-04872 ..... **$20.50**
Screw Seal Assy. MC1802.....P/N 05-04873 ..... **$8.50**
Pack of 5 - Screw Seal Assy. MC1802 .....P/N 05-04873-5 ..... **$42.60**

Prices Subject to Change Without Notice - Valid as of June 3, 2022.

PIPER / LUSCOMBE PARTS

PIPER J3 STYLE PARTS

These experimental Piper J3 like style parts will help you achieve the pre or post war appearance you are looking for without taking away from the performance. **NOT FAA APPROVED.**

Description	Part No.	Price
Landing Gear - Left - 3/8" Bolts	05-12281	**$492.00**
Landing Gear - Right - 3/8" Bolts	05-12282	**$492.00**
Hub Caps - Sold as Pair	05-12283	**$41.50**
Tail Spring 1-1/4"	05-12284	**$133.75**
Shock Cord Install Tool	05-12285	**$172.75**
Cabane Vee Assembly - 5/16" Bolts	05-12286	**$230.95**
Cabane Vee Assembly - 1/4" Bolts	05-12287	**$214.95**
Axle Nut 1-1/4"	05-12288	**$18.65**
Step	05-12289	**$122.75**
Shock Strut Assembly - 1-Long & 1-Short	05-12290	**$412.00**
Rudder	05-12291	**$456.00**
Trim Crank	05-12293	**$31.50**
Escutcheon	05-12294	**$17.75**
Escutcheon Spring	05-12295	**$10.50**
Bellcrank Assembly with Tube	05-12296	**$333.00**
Rudder Return Spring - 1 Spring	05-12298	**$12.50**
Rudder Pedal Floor Plate - 1 Plate	05-12299	**$3.80**
Rudder Pedal Clamp - 1 Clamp	05-12300	**$8.50**
Torque Tube	05-12301	**$575.00**
Control Stick Connector	05-12302	**$136.75**
Stick Assembly with Socket	05-12303	**$219.95**

Description	Part No.	Price
Throttle Handle Set with Interconnect	05-12304	**$123.90**
Throttle - 1 Throttle	05-12305	**$44.85**
Throttle Interconnect - 1 Interconnect	05-12306	**$64.75**
Throttle Knob - 1 Knob	05-12307	**$12.50**
Fuel On/Off Well	05-12308	**$43.50**
Carb Heat On/Off Well	05-12309	**$43.50**
Trim Cover Plate	05-12310	**$43.50**
Cabin Heat Air Box	05-12311	**$94.90**
Floorboards - Pair	05-12312	**$137.75**
Rear Seat Cross Tube	05-12313	**$96.75**
Front Seat Frame - Standard	05-12314	**$488.00**
Front Seat Frame - Heavy Duty	05-12315	**$518.00**
Brake Pedal Kit - 2 pieces	05-12316	**$250.95**
Exhaust Stack - Left	05-12317	**$322.00**
Exhaust Stack - Right	05-12318	**$322.00**
Nose Cowl Ram Air Box	05-12321	**$151.75**
C-75 - O-200 Generator Cover Plate	05-12322	**$50.75**
C-75 - O-200 Starter Cover Plate	05-12323	**$49.70**
Fiberglass Nose Bowl Set	05-12324	**$288.95**
Continental Lifting Eye	05-12325	**$17.75**

AP

(FAA/PMA APPROVED)

LUSCOMBE 8E & 8F EXHAUST STACKS

Left Hand Exhaust Stack
P/N 05-07805 ..... **$987.00**
Right Hand Exhaust Stack
P/N 05-07810 ..... **$1,037.00**

LUSCOMBE CABIN HEAT SHROUD

8E & 8F AND 8A-2pc Stacks
P/N 05-07820 ..... **$532.00**

LUSCOMBE 8A CARBURETOR & CABIN HEAT SHROUD

FAA/PMA approved.
P/N 05-08115 ..... **$601.00**

RUDDER & ELEVATOR HINGE PIN & BRACKET

Hinge Pin.....P/N 05-07825 ..... **$47.65**
Hinge Pin Bracket.....P/N 05-07830 ..... **$39.90**

GAS CAP & LANDING LIGHT LENS

Luscombe Gas Cap.P/N 05-07835 ..... **$246.95**
Landing Light Lens..P/N 05-07840 ..... **$86.75**
Landing Light Lens..P/N 05-07845 ..... **$101.85**

VERTICAL FIN FRONT ATTACH

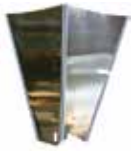
Fitting.....P/N 05-07985 ..... **$395.00**

Note: This fitting is welded 4130 steel and complies with all provisions of A.D. 79-25-05. This fitting is required only on those Luscombes with the "round tip" vertical stabilizer.

TAILWHEEL LEAF SPRINGS

Complete Assembly
P/N 06-14600 ..... **$347.00**
Main Leaf Only
P/N 06-14700 ..... **$86.90**

ALL-ALUMINUM LANDING GEAR FAIRING



FOR STANDARD GEAR

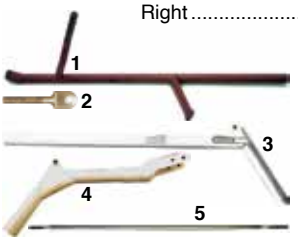
Left.....P/N 05-07865 ..... **$292.95**
Right .....P/N 05-07870 ..... **$272.95**

FOR SILFLEX GEAR

Left.....P/N 05-07875 ..... **$410.00**
Right .....P/N 05-07880 ..... **$410.00**

FAA/PMA LANDING GEAR PARTS

(FOR STANDARD GEARS)



Left Hand Jack Strut (1)
P/N 05-07885 ..... **$954.00**
Right Hand Jack Strut (1)
P/N 05-07890 ..... **$947.00**
Fork End (S-9) (2)
P/N 05-07895 ..... **$112.85**
Left Hand Lower Leg (3) .....P/N 05-07900 ..... **$1,469.00**
Right Hand Lower Leg (3) .....P/N 05-07905 ..... **$1,469.00**
Left Hand Upper Arm (4).....P/N 05-07910 ..... **$1,899.00**
Right Hand Upper Arm (4) .....P/N 05-07915 ..... **$1,945.00**
Tie Rod without fittings, 361/4" long (5) .....P/N 05-07920 ..... **$479.00**
Left Hand Jack Strut (Silflex).....P/N 05-07930 ..... **$911.00**

FAA/PMA WING PARTS

Left hand aileron.....P/N 05-00452 ..... **$4,792.00**
Right hand aileron .....P/N 05-00453 ..... **$4,789.00**
Left hand lift strut (metal wing).....P/N 05-00454 ..... **$2,977.00**
Right hand lift strut (metal wing) .....P/N 05-00455 ..... **$2,977.00**
Carry-thru spar (front or rear).....P/N 05-00456 ..... **$671.00**

FAA/PMA TAIL SECTION PARTS

Fin, square tip.....P/N 05-07940 ..... **$3,477.00**
Rudder, square tip.....P/N 05-07945 ..... **$2,258.00**
Rudder Horn for square tip rudder .....P/N 05-07950 ..... **$165.75**
Tailwheel Leaf Spring Assembly .....P/N 06-14600 ..... **$347.00**
Main Leaf only .....P/N 06-14700 ..... **$86.90**

LUSCOMBE PARTS

(FAA/PMA APPROVED)

AP

ALL ALUMINUM COWLING

Bottom Cowl .....P/N 05-07995 .....**$1,185.00**
Top Cowl .....P/N 05-08000 .....**$598.00**
L/H Cowl .....P/N 05-08005 .....**$270.95**
R/H Cowl .....P/N 05-08010 .....**$252.95**

Note: Cowling is trimmed oversize requiring a finish trim for each individual airplane.

REPLICA CLASSIC LUSCOMBE WHEEL PANTS

These fiberglass wheel fairings are a copy of the classic metal fairings used on many classic Luscomb and other Aircraft. The streamline ridges on each side of the fairing make these more stylish than the rest! These units are NOT FAA approved. Sold as a set, but left and right are the same, and the installer must make the cut-outs for installation. Installation brackets and hardware are not provided. Some finish work will be required before paint. Length: 30". Width: 10-1/2". Height: 13-3/4". Wheel Cut Out Dimensions: 19" X 8-1/2".

Weight: 3.75 Lbs .....P/N 05-11834 .....**$518.00**

FIREWALL DISHPAN

Used on Luscombe with an electrical system.....P/N 05-08015 .....**$775.00**

FIREWALL TO ENGINE MOUNT RUBBER BUSHING

6 ea. required per aircraft.
P/N 05-08020 .....**$61.75**

LUSCOMBE ENGINE MOUNT

For all Continental powered Luscombe, A-65 thru C-90 ..... P/N 05-08025 ....**$2,253.00**

MANUALS

8A Owner's Manual
P/N 13-00230 .....**$8.99**
8E Owner's Manual
P/N 13-00235 .....**$8.99**
8 Series Master Parts List, illustrated
P/N 13-00240 .....**$33.85**
Service Manual, early fabric wings
P/N 13-00245 .....**$20.50**

BLANK INSTRUMENT PANEL

Luscombe Blank Instrument Panel.
Applicability: Luscombe 8 Series
FAA/PMA approved.....P/N 05-08030 .....**$747.00**

CONTROL CABLES (GALVANIZED)

Luscombe Control Cables.
- Applicability: Luscombe 8 Series
- Galvanized steel
- FAA/PMA approved

Description	Dimensions	Part No.	Price
Brake Cable Assembly	--	05-08035	**$136.75**
Early Elevator Cable	12' 11-3/4"	05-08040	**$205.95**
Late Elevator Cable	13' 1-7/8"	05-08045	**$217.95**
Left Hand Rudder Cable	15' 2-7/8"	05-08050	**$224.95**
Right Hand Rudder Cable	15' 3-5/8"	05-08055	**$199.80**
Stick To Aileron Cable	18' 2-3/8"	05-08065	**$238.95**
Left Hand Aileron Cable	16' 7/8"	05-08070	**$198.75**
Left Hand Balance Cable	15' 10-3/4"	05-08075	**$176.75**
Forward Trim Cable	75' 7-7/16"	05-08080	**$205.95**
AFT Trim Tab Cable	140-1/16"	05-08085	**$198.75**

8A EXHAUST COMPONENTS FITS ALL A-65 CONTINENTAL ENGINES

Luscombe 8A Exhaust Components - Fits all A-65 Continental Engines.
- Applicability: Luscombe 8 Series
- Galvanized steel
- FAA/PMA approved

Description	Part No.	Price
Rear Crossover	05-08090	**$522.00**
Left Hand Stack	05-08095	**$577.00**
Right Hand Stack	05-08100	**$519.00**
Exhaust Clamp	05-08105	**$75.75**
Complete Assembly (includes 2 exhaust clamps)	05-08110	**$1,567.00**

ERCOUPE FIBERGLASS SUPER NOSE BOWL

Ercoupe Fiberglass Super Nose Bowl - KE2-635 SMK 72 - STC SA3502WE.
The KE2-635 Super Nose Bowl has been developed to allow owners and operators of Univair (ERCO) 415-C, A-2, F-1 and M10 series aircraft to replace their aging OEM aluminum nose bowls with a fiberglass replacement nose bowl; ERCO 415-40421, 415-40451, 415-40460E, Forney F4063. The KE2-635 Fiberglass Replacement Nose Bowl provides the same fit and finish as the OEM aluminum article with the advantage of improved airflow, durability and reparability.
P/N 05-22909 .....**$827.00**

(TYPE CERTIFICATE APPROVED)

EXHAUST SYSTEM

Muffler
SN 1-3109 ..... P/N 05-08120 ..... **$1,466.00**
SN 3110 and up ..... P/N 05-08125 ..... **$1,461.00**
Perforated Tube
SN 1-3109 ..... P/N 05-08130 ..... **$370.00**
Perforated Tube
SN 3110 and up ..... P/N 05-08135 ..... **$282.95**
Tailpipe, Left Hand
SN 112-3109 ..... P/N 05-08140 ..... **$533.00**
SN 3110 and up ..... P/N 05-08145 ..... **$463.00**
Tailpipe, Right Hand
SN 112-3109 ..... P/N 05-08150 ..... **$583.00**
SN 3110 and up ..... P/N 05-08155 ..... **$356.00**

HEAT SHROUDS

Carb. Heat Shroud .. P/N 05-08165 ..... **$608.00**
Cabin Heat Shroud, For SN 744 & up
P/N 05-08170 ..... **$645.00**
Shroud Clip ..... P/N 05-08175 ..... **$87.99**

COMPLETE SPINNER ASSEMBLIES

READY FOR INSTALLATION FOR STINSON WITH WOOD OR METAL PROPELLERS.

05-08180

05-08185

Wood Propeller Spinner Assembly ..... P/N 05-08180 ..... **$1,099.00**
Metal Propeller Spinner Assembly ..... P/N 05-08185 ..... **$1,095.00**

CUFF AIR INDUCT

For 108, 108-1, 108-2, 150 hp. (SN 1-2249) .. P/N 05-08190 ..... **$203.95**
For 108-2, 108-3, 165 hp. (SN 1-2249) ..... P/N 05-08195 ..... **$187.75**

FUEL GAUGE & SENDER

DIRECT REPLACEMENT FOR ORIGINAL AC GAUGE AND SENDER

Gauge ..... P/N 05-08200 ..... **$292.95**
Sender ..... P/N 05-08205 ..... **$503.00**

RUDDER ARM

Stinson Rudder Arm.. P/N 05-08210 ..... **$196.99**

CARBURETOR AIR FILTER

For Franklin 150-165 hp. Stinson 108 Series
P/N 05-08215 ..... **$124.75**
Leading Edge Slat for all 108 Series.
P/N 05-08220 ..... **$497.00**
Leading Light Lens .. P/N 05-08225 ..... **$112.85**

STINSON MANUALS

108 Series Parts Catalog ..... P/N 05-08230 .. **$38.50**
General Service Manual ..... P/N 05-08235 .. **$68.90**
Service Bulletins and Letters ... P/N 05-08240 .. **$41.50**
Stinson Specs, ADs and STCs P/N 05-08245 .. **$18.65**
108 CAA Operating Limits ..... P/N 05-08250 .. **$10.50**
108-1 CAA Operating Limits .... P/N 05-08255 .. **$14.50**
108-2 CAA Operating Limits .... P/N 05-08265 .... **$9.50**
108-3 CAA Operating Limits .... P/N 05-08270 .. **$11.75**
108-1 Owner's Manual ..... P/N 05-08275 .. **$22.99**
108-2 Owner's Manual ..... P/N 05-08280 .. **$24.50**
108-3 Owner's Manual ..... P/N 05-08285 .. **$23.50**
108-1 Seaplane Operating Limits..... P/N 05-08290 .. **$14.65**
108-2 Seaplane Operating Limits..... P/N 05-08295 .. **$11.75**
108-3 Seaplane Operating Limits..... P/N 05-08300 .. **$13.50**
108 Ski-Plane Supplement..... P/N 05-08305 .... **$3.35**
108-1 Ski-Plane Supplement..... P/N 05-08310 .... **$3.35**
Appendix A Supplement..... P/N 05-08315 .... **$2.78**
Stinson Story of Aircraft Progress..... P/N 05-08320 .. **$33.85**
Stinson Time-Speed-Distance Computer..... P/N 05-08325 .. **$20.70**
Stinson Computer Instructions ..... P/N 05-08330 .. **$13.50**

ALUMINUM NOSE COWL

Applicable to 108 through 108-3 series Stinsons.
Nose Cowl ..... P/N 05-08335 ..... **$1,418.00**

LANDING GEAR FAIRINGS

Left Fairing..... P/N 05-08340 ..... **$406.00**
Right Fairing ..... P/N 05-08345 ..... **$406.00**

FUSELAGE TO LANDING GEAR FILLETS

Left..... P/N 05-08350..... **$693.00**
Right ..... P/N 05-08355..... **$568.00**

ENGINE COWL LEVER ASSEMBLY

Cowl Fastener Assembly..... P/N 05-08365 ..... **$123.90**
Cowl Fastener Pin..... P/N 05-08370 ..... **$2.28**
Cowl Fastener Receptacle ..... P/N 05-08375 ..... **$10.60**
Receptacle Cup..... P/N 05-08380 ..... **$42.80**

WING LIFT STRUTS

Front Strut..... P/N 05-08385 ..... **$2,338.00**
Rear Strut ..... P/N 05-08390 ..... **$1,877.00**

LANDING LIGHT LENS

Landing Light Lens .. P/N 05-08225 ..... **$112.85**

PITOT TUBE

Pitot Tube ..... P/N 05-08395 ..... **$336.00**

CONTROL SURFACE BEARING

Control Surface Bearing ..... P/N 05-08400 ..... **$57.75**

CONTROL CABLES

Description	No. Req'd	P/N	Price
Aileron Idler Cable	2	05-08405	**$163.90**
Aileron Control Cable	2	05-08410	**$130.80**
Flap Control Cable	2	05-08415	**$174.95**
Rudder Cable—1946, 1947	2	05-08420	**$169.75**
Rudder Cable, 1948	2	05-08425	**$172.75**
Aileron Idler Cable (in fuselage)	1	05-08430	**$73.75**
Control Column Cable, Left Half	1	05-08435	**$190.75**
Control Column Cable, Right Half	1	05-08440	**$188.75**
"Up" Elevator Cable	1	05-08445	**$162.80**
"Down" Elevator Cable	1	05-08450	**$152.85**
Upper Flap Control Cable (in fuselage)	1	05-08455	**$101.80**
Elevator Tab Control Cable, SN 1 thru 2249	1	05-08465	**$103.75**
Elevator Tab Control Cable, SN 2250 and up	1	05-08470	**$118.75**
Rudder Trim Cable, SN 2250 and up	2	05-08475	**$65.85**
Rudder Trim Driver Cable, SN 2250 and up	1	05-08480	**$93.75**

STRUT FILLETS

Rear Lift Strut Upper Fillet
Left..... P/N 05-08485 ... **$201.95 ea.**
Rights ..... P/N 05-08490 ... **$232.95 ea.**
Forward Lift Strut Upper Fillet
Left..... P/N 05-08495 ... **$232.95 ea.**
Right ..... P/N 05-08500 ... **$109.75 ea.**
Lift Strut, Lower Fillet
Left..... P/N 05-08505 ... **$235.95 ea.**
Right ..... P/N 05-08510 ... **$235.95 ea.**

AP

AERONCA/BELLANCA REPLACEMENT PARTS

RIBS - FAA/PMA'D

P/N 05-06069

P/N 05-06098

P/N 05-06069

P/N 05-06097

P/N 05-06118
P/N 05-06117

P/N 05-06101

P/N 05-06256

P/N 05-06221

P/N 05-06122

P/N 05-06123

P/N 05-06253

P/N 05-06099

P/N 05-06255

AP

Description	Models	OEM P/Ns	Part No.	Price
Main Wing Rib	Most 7 &11 Series	5-142	05-06069	**$210.95**
Main Wing Rib	8KCAB	5-357L (left)	05-06118	**$119.75**
		5-357R (right)	05-06117	**$68.90**
Wing Tip Rib	Most 7 &11 Series	5-143	05-06070	---
Aileron Bay Rib	Most 7 &11 Series	5-181	05-06097	**$191.75**
Aileron Bay Rib	8KCAB	2-1978L (left)	05-06253	**$38.60**
		2-1978R (right)	05-05254	**$1,047.00**
Aileron Rib Inboard	8GCBC	5-377R (right)	05-06255	**$210.95**
Aileron Bay Rib	8GCBC	5-374	05-06122	**$256.95**
		5-375	05-06256	**$165.75**
Aileron Flap Rib - Inside	Most 7, 8 & 11 Series	3-445	05-06257	**$43.90**
Aileron Flap Rib - End	Most 7, 8 & 11 Series	3-446	05-06258	**$64.75**
Flap Bay Rib	8GCBC	5-373	05-06259	**$95.75**
Flap Bay Support Rib	8GCBC	5-378 (left)	05-06260	**$109.75**
		5-378 (right)	05-06261	**$109.75**
Nose Rib, Tank Area	7ECA, 7GCBC, 7GCAA, 7KCAB, 8GCBC	3-1516	05-05802	**$58.75**
Wing Tip Ribs w/Strip	7EC thru 7KCAB	4-1030 (left)	05-05876	---
		4-1030 (right)	05-05877	---
Aileron and Flap Rib	Most 7, 8 & 11 Series	3-445	05-06257	**$43.90**
Rib - Trailing Tank Area	8KCAB	4-1527	05-06262	**$44.50**
Butt Rib	8KCAB	5-365 (left)	05-06119	**$268.95**
		5-365 (right)	05-06120	---
Butt Rib	Most 7 & 11 Series	7-445L (left)	05-06169	**$214.95**
		7-445R (right)	05-06170	---
Rib Assy. Butt Rib (wing with wing tank)	Most 7 & 11 Series	7-791L (left)	05-06220	**$377.00**
		7-791R (right)	05-06221	**$377.00**
Rib Replacement Sections for 5-142				
Rear Section	Most 7 &11 Series	5-185-1	05-06098	**$66.95**
Nose Section	Most 7 &11 Series	5-185-2	05-06099	**$72.80**
Rear Section, w/support, same as 5-185-1, includes 1-8875 support	Most 7 &11 Series	5-185-5	05-06101	**$129.75**
Other Aeronca ribs are available. Please call for availability and price for your specific needs!				

WING TIPS - FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Wing Tips - Fiberglass	7EC, 7GC, 7GCA, 7FC, 7HC,7JC, 7GCB, 7GCBC, 7KC, 7ECA, 7GCAA	5-267L (left)	05-06270	**$387.00**
Wing Tips - Fiberglass	8GCBC	7-1480L (left)	05-06271	---
		7-1480R (right)	05-06164	---
Wing Tip Bow - Metal	7AC, 7BCM, 7CCM, 7DC, 7EC, 7FC, 11AC, 11B, 11C	7-440L (left)	05-06166	**$445.00**
		7-440R (right)	05-06167	**$472.00**

RIB COMPONENTS - FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Rib Reinforcement - Flap Bay	7GCB, 7GCBA, 7GCBC	2-1590 (left)	05-06263	**$29.70**
		2-1590 (right)	05-06264	**$29.70**
		2-1591 (left)	05-06265	**$29.70**
		2-1591 (right)	05-06266	**$29.70**
Rib Reinforcement - Flap Inboard Forward	7GCB, 7GCBA, 7GCBC	2-1598	05-06267	**$31.50**
Rib Reinforcement - Flap Inboard Aft	7GCB, 7GCBA, 7GCBC	2-1599	05-06268	**$28.60**
Rib Stiffener	Most 7 & 11 Series	2-699	05-05691	**$48.50**

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AERONCA/BELLANCA REPLACEMENT PARTS

OTHER WING COMPONENTS - ALL FAA/PMA'D

P/N 05-05459

P/N 05-05389

P/N 05-08461

P/N 05-05798

P/N 05-05845

P/N 05-06295

Description	Models	OEM P/Ns	Part No.	Price
Drag Wire	Most 7, 8 and 11 Series	1-2527-1	05-05459	**$46.50**
Drag Wire	Most 7, 8 and 11 Series	1-2527-2	05-06292	**$46.95**
Drag Wire	Most 7, 8 and 11 Series	1-2595-1	05-05480	**$104.75**
Drag Wire	Most 7, 8 and 11 Series	1-2595-2	05-05481	**$104.90**
Aeronca Wing Tip Drag Tube	Most 7 Models - 11A,11B,11C	2695	05-08461	**$127.99**
Wing Root Drag Wire Lug	Most 7, 8 and 11 Series	1-2299	05-05389	**$27.50**
Flap Hinge Inboard-Left	7GCB, 7GCBA, 7GCBC, 8GCBC	1-9015L (left)	05-06293	**$180.75**
Flap Hinge Inboard-Right	7GCB, 7GCBA, 7GCBC, 8GCBC	1-9015R (right)	05-06294	**$180.75**
Flap Fairing-Lower	7GCBC, 8GCBC	1-9803	05-06295	**$22.80**
Gap Cover	8KCAB	3-1448R (right)	05-05798	**$112.85**
		3-1448L (left)	05-05797	**$112.85**
Gap Cover	8KCAB	4-1553R (right)	05-05945	**$107.75**
		4-1553L (left)	05-05944	**$107.75**
Front Wing Gap Cover	Most 7 Series	3-451L (left)	05-05820	---
Front Wing Gap Cover	Most 7 Series	3-451R (right)	05-05821	---
Top Rear Wing Gap Cover	Most 7 Series	3-453L (left)	05-05823	---
Top Rear Wing Gap Cover	Most 7 Series	3-453 R (right)	05-05824	---
Top Center Wing Gap Cover	Most 7 Series	3-452	05-05822	---
Bottom Rear Wing Gap Cover	Most 7 Series	3-454L (left)	05-05825	---
Bottom Rear Wing Gap Cover	Most 7 Series	3-454R (right)	05-05826	---
Bottom Center Wing Gap Cover	Most 7 Series	3-455	05-05827	**$31.50**
Inspection Cover Assy.	Most 7, 8 & 11Series	3-639	05-05868	**$57.75**
Airspeed Pitot Head	Most 7 & 11 Series	3-535	05-05845	**$406.00**
Spacer Aileron Sector and Hinge	7A, 7ACA, 7B, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB, 8KCAB, 8GCBC, 11A, 11B, 11C	1-2576	05-05470	**$18.65**
Aileron Spar	Most 7 Series	5-157	05-06079	**$107.75**
Aileron Control and Balance Cable	7AC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7HC, 7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	1-2339	05-05404	**$96.75**
Aileron Balance	Most 7, 8 & 11 Series	5-179R (right)	05-06096	**$158.75**
		5-179L (left)	05-06095	**$158.75**
Fairlead-Aileron Balance Cable	All Models	1-2396	05-05427	**$41.50**
Pulley - Aileron Control	7ACA, 7ECA, 7GCAA, 7GCBC, 7KCAB	1-10309	05-05348	**$71.80**
Spacer - Aileron Sector & Hinge Bracket	Most 7, 8, & 11 Series	1-2576	05-05470	**$18.65**

INSTRUMENT PANELS - FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Instrument Panel blank no holes	7AC, 7BCM, 7CCM, 7DC	5-150	05-06075	**$165.75**
Instrument Panel	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	4-1428	05-05914	---
Instrument Panel	7ECA, 7GCAA, 7GCBC, 8KCAB, 8GCBC	5-390	05-06127	**$190.75**
Radio Panel	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	2-1919-1	05-05652	---
Electrical Panel Blank	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	4-1363	05-05885	**$72.80**

DOOR COMPONENTS - ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Fiberglass Door Frame	7EC, 7FC, 7GC, 7HC, 7GCA, 7GCB, 7GCBA, 7KC	710841	05-06298	**$857.00**
Fiberglass Door	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	71265	05-06144	---
Upper Door or Window Handle Assy. *Meets AN, MS, NAS, or MIL-Spec	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB,	H-863-000	05-06299	**$71.75**
Photo Door Frame	8GCBC	714571 (window)	05-06157	**$405.00**
Photo Door Frame	8GCBC	714572 (lower)	05-06158	**$442.00**
Door Hinge	7A, 7BCM, 7CCM, 7DC, 7EC	12423	05-05439	**$43.50**
Cabin Door Latch	7AC, 7BCM, 7CCM, 7DC, 7EC, 15AC	12594	05-05479	**$118.75**
Cabin Door Stop Assy.	All models except 8KCAB	13514	05-05529	**$75.75**
Tube	All models except 8KCAB	135142	05-05531	---
Brace Assembly Door Latch	All 7 Series & 8KCAB	21451	05-05615	**$36.99**
Wood Spacer	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	712656	05-06145	**$13.50**

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WINDOWS, WINDOW SETS & SKYLIGHTS - ALL FAA/PMA'D

Factory fresh, free from distortion. Manufacturer guarantees their windows and skylights to be optically perfect and free from defects. Please specify year, model and serial number of your aircraft when ordering. Many out-of-date aircraft have been modified and measurements included with the order will help alleviate any problems if your aircraft is not standard. Check or charge card number must accompany order. Orders are noncancellable and nonreturnable. All windows and skylights available in green or grey tint at additional 20% charge. Windows and skylights requiring a Certificate of Authenticity for export have an additional $80.00 charge. Windows and skylights. Shipped FOB factory. Prepayment required.

Description	Models	LP Aero P/N	OEM P/Ns	Part No.	Price
Left Front Sliding Window Forward (clear)	Most 7 Series	231	3-572 (replaces 3-469, window only)	05-02783	$75.75
Left Front Sliding Window Rearward (clear)	Most 7 Series	232	3-573 (replaces 3-470, window only)	05-02784	$71.75
Rear Window (Left or Right) (clear)	Most 7 Series	233	7-463	05-02785	$101.80
Right Front Door Window (clear)	Most 7 Series	234	7-538	05-06406	$92.75
Right Door Window Bubbled	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	291	4-1446	05-02821 (clear)	$204.95
				05-06409 (green)	$245.95
Left Rear Bubbled Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	290	7-1256-L	05-06411 (clear)	$216.95
Right Rear Bubbled Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	289	7-1256-R	05-02820 (clear)	$216.95
Left Front Swinging Bubbled Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	297	4-1487	05-06438 (clear)	$199.99
				05-06439 (green)	$242.95
				05-06440 (gray)	$242.95
Left or Right Door - Front Sliding Window (clear)	11AC, 11BC, 11CC, S11AC, S11BA, S11CC	225	4-715	05-06441	$71.75
Left or Right Door - Rear Sliding Window (clear)	11AC, 11BC, 11CC, S11AC, S11BA, S11CC	226	4-714	05-06444	$71.75
Left or Right Rear Window (clear)	11AC, 11BC, 11CC, S11AC, S11BA, S11CC	227	4-594	05-06447	$78.75
Left Front Pilot Window (clear)	14-19-3A, 17-30, 17-30A, 17-31A, 17-31ATC (Viking)	816	196940-1	05-06450	$312.00

SKYLIGHT

Description	Models	LP Aero P/N	Color	Part No.	Price
7ACA, 7GCBC, 7ECA, 7GCAA, 7KCAB, 8GCBC, 8KCAB	7-1286	288GT	Clear	05-02818	$267.95
			Green	05-02819	$254.95

WINDOW SETS

Description	OEM P/Ns	Part No.	Price
Window Set - Includes one each left front sliding window fwd., left front sliding window rwd. right and left rear bubble window and right door bubble	231, 232, 289, 290 & 291	05-06465	$982.00

WINDOW & WINDSHIELD FRAMES & COMPONENTS

Description	Models	OEM P/Ns	Part No.	Price
Rear Window Frame	7AC, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCB, 7HC	7-461 (RT)	05-06176	$383.00
		7-461 (LT)	05-06177	$392.00
Rear Window Sill Strip (wood)	7AC, 7DC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB	2-786	05-05723	$28.75
Retainer - LT Side Windshield	7AC, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GCAA, 7GCBA, 7GCBC, 7KCAB	3-473	05-05831	$50.65
Retainer - RT Side Windshield	7GCAA, 7GCBC	3-474-1R (RT)	05-06301	$21.50
Retainer Windshield - Top	7AC, 7DC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCBA	3-549	05-05854	$22.80
Retainer Windshield -Pair - Windshield to Wraparound	7AC, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7HC	7-487	05-06194	$151.75/pr.
Rear Window Channel - Bottom	7ACA, 7ECA, 7GCAA, 7GCBA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	2-1875R (RT)	05-05635	---
		2-1875L (LT)	05-05634	---
Rear Window Channel - Top	7ACA, 7ECA, 7GCAA, 7GCBA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	2-1876R (RT)	05-05637	$74.75
		2-1876L (LT)	05-05636	$74.75
Rear Window Channel - Aft	7ACA, 7ECA, 7GCAA, 7GCBA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	1-9919L (LT)	05-06303	$90.95
Moulding - Rear Window Upper	7ACA, 7ECA, 7GCAA, 7GCBA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	2-1877R (RT)	05-06304	$54.75
		2-1877L (LT)	05-06305	$54.75
		2-1877-1R (RT)	05-06306	$35.90
		2-1877-1L (LT)	05-06307	$35.90
Retainer Windshield -Side - Windshield to Wraparound	7ECA, 7GCAC, 7GCAA, 8KCAB	3-474-2R	05-06308	$42.80
		3-474-2L	05-06309	$42.50
Retainer - RT Side Windshield to Wraparound (bottom)	7ACA, 7GCBC, 7ECA, 7GCAA, 7KCAB, 8KCAB, 8GCBC	4-1369R (RT)	05-05887	$129.75
		4-1369L (LT)	05-05886	$129.75
LT Front Window Frame	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	7-1318	05-06310	$373.00
Top Window Support Assy.	7BCM, 7CCM, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCBA	3-585	05-05859	$329.00
U Rubber Channel	Meets AN, MS, NAS, or MIL-Spec	CH-35	05-02200	$2.17
Hinge for LT Side Window	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	1-9872	05-05595	$45.50
Sliding Window Center Stiffener	Most 7 & 11 Series	1-2417-1	05-05436	$49.50
End Stiffener LT Rear Sliding Window	Most 7 Series	1-2418-1	05-05437	$47.65
End Stiffener LT Front Sliding Window	Most 7 Series	1-2418-2	05-05438	$46.75
Sliding Window Track Moulding Upper (31.37")	Most 7 Series	2-853-1	05-05736	$81.75
Sliding Window Track Moulding Lower (37.43")	Most 7 Series	2-853-2	05-05737	$81.75

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BRAKE COMPONENTS & TOE BRAKE KITS - ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Toe Brake Kit -Gerdes System. Wheels & brakes not included.	7AC, 7ACA, 7BCM, 7CCM, 7EC, 7ECA, 7FC, 7GCBC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7KCAB	4-1624K	05-06311	**$4,916.00**
Toe Brake Conversion Kit - Converts VanSickle or Goodyear brakes systems to Cleveland wheels and brakes for aircraft with oleo gear only! Includes parts list, three installation drawings and two brake line drawings and two STCs (SA34CH &5A507CH)	7AC, 7BCM, 7CCM, 7EC, 7ECA, 7FC, 7GCBC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7HC, 7KCAB	4-1624OG	05-06312	**$10,796.00**
Heel Brake Conversion Kit - Converts existing hydraulic heel brakes to hydraulic toe brakes. Does not include new wheels, brake discs, calipers or spacers. Can be used on aircraft with spring steel gear.	7ACA, 7ECA, 7GCBC, 7GCAA, 7KCAB 8KCAB, 8GCBC	4-1624K	05-06311	**$4,916.00**
Rudder Pedals, Toe Brake	7ECA, 7GCAA, 7GCBC, 7KCAB, 7ACA, 8KCAB	3-1537-1 (front)	05-05809	**$111.75**
		3-1537-2L (left rear)	05-05810	**$136.75**
		3-1537-2R (right rear)	05-05811	**$136.75**
Brake Torque Plate	7AC, 7BCM, 7CCM, 7EC, 7FC, 7GC, 7HC, 11A, 11BC	1-2258	05-06315	**$36.80**
Brake Cable	7AC, 7BCM, 7DC, 7EC	1-2358-2	05-05409	**$57.75**
Eyebolt Brake Cable	11AC	1-2499	05-05457	**$42.80**
Brake Rod	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	1-9850	05-06316	**---**
Cable Brake Assembly, LH	11A, 11B, 11C	2-7762	05-06317	**$128.75**
Cable Brake Assembly, RH	11A, 11B, 11C	2-7763	05-06318	**$136.75**
Tube, Parking Brake Beam	7Ac, 7BCM, 7CCM, 7DC	2-796-1	05-05727	**$17.50**
Parking Brake Lever Release Plate	All 7 & 11 Series Models	1-2325	05-05396	**$40.75**
Parking Brake Lever Spring	All 7 & 11 Series Models	1-2519	05-05458	**$26.95**
Hydraulic Brake Line Assembly	7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7ECA, 7GCBC, 7GCAA, 7KCAB, 7KC	1-8966	05-05579	**$42.60**
Brake Pedal - Right	7A, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KCAB, 8GCBC, 8KCAB	1-2613R	05-06320	**$46.60**
Toe Brake Rudder Pedal	7ACA, 7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	3-1534	05-05803	**$156.99**
Bracket Toe Brake Master Cylinder	All 7 & 8 Series Models	3-1536 (right)	05-05807	**$132.75**
		3-1536 (left)	05-05806	**$132.75**

OLEO STRUT & COMPONENTS - FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Repair, Oleo Strut Assembly (standard) One year Warranty. Allow four to six weeks turnaround.	7AC, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7ECA	3-433	05-06322	**$637.00**
Oleo Strut Frame	Most 7 & 11 Series	7-1004	05-06133	**$936.00**
Landing Gear Oleo Fairing - LH	7DC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCBC, 7GCBA,	4-701L	05-06027	**$66.75**
Landing Gear Oleo Fairing - RH	7GCBC, 7ECA, 7GCAA, 7KCAB, 7KC, 11A, 11B & 11C	4-701R	05-06028	**$78.75**
Landing Gear Frame Tube	Most 7 & 11 Series	7-1004-1	05-06134	**$85.75**
Oleo Bushing, Shock Strut	Most 7 & 11 Series	1-2565	05-06323	**$82.75**
Piston Rod Assembly	7AC, 7BCM, 7CCM, 7DC, 11A, 11B, 11C	1-2255	05-05375	**$159.75**
Piston Rod	7AC, 7BCM, 7CCM, 7DC, 11A, 11B, 11C	1-2255-1	05-05376	**$110.75**
Piston Rod Assembly	Most 7 & 11 Series	2-952	05-05758	**$344.00**
Oleo Spring for no bounce oleo assembly	7AC,7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCAA, 7GCBC, 7ECA, 7GCAA, 7GCAB, 7KC	3-666	05-06324	**$57.75**
Landing Gear Oleo Strut, Lower Tube	7AC, 7BCM, 7CCM, 7DC, 11AC, 11B, 11C	1-2253	05-05374	**$152.85**
Oleo Spring	7AC, 7BCM, 7CCM, 7DC, 11AC, 11B, 11C	1-2256	05-05378	**$89.75**
Aeronca Tube - Cylinder Assembly	Most 7 & 11 Series	3-668	05-05870	**$488.00**
Taxi Spring	Most 7 & 11 Series	2-953	05-05760	**$104.75**
Oleo Packing 12"	Most 7 & 11 Series (need one per strut)	1-2119	05-05373	**$33.85**
Retainer Oleo Shock Strut Spring	7AC-7DC & 11 Series	1-316	05-06325	**$64.75**

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AERONCA/BELLANCA REPLACEMENT PARTS

FIBERGLASS WHEEL FENDERS & BRACKETS ALL FAA/PMA'D

Description	Model	LH	RH	LH	RH	Price
Fender, LH/RH	7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCB, 7GCAA, 7GCBC,7HC, 7KCAB	7-1141LH	7-1141RH	05-06141	05-06142	**$835.00**
Fender, LH/RH	7GCBC, 7ECA, 7GCAA, 7KCAB, 8KCAB	7-1301LH	7-1301RH	05-06326	05-06327	**$305.00**
Wheel Pant Cover for 7-1301 LH/RH	7GCBC, 7ECA, 7GCAA, 7KCAB, 8KCAB	2-1945LH	2-1945RH	05-05654	05-05655	**$92.75**

LANDING GEAR, FAIRINGS & COMPONENTS ALL FAA/PMA'D

Description	Models	OEM #	Part No.	Price
Landing Gear Axle Strut	7AC, 7BCM, 7DC, 11A, 11C	7-807	05-06222	**$962.00**
Spring Gear Axle	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	3-1600	05-06330	**$442.00**
Landing Gear Axle Fitting	Most 7 & 11 Series	1-2260	05-05379	**$33.85**
Axle Upper End Fitting (4" long)	7AC, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7GC, 7GCA, 7GCB, 7GCAA, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB	1-9997-1	05-06331	**$77.75**
Axle Upper End Fitting (6-1/4" long)	7AC, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7GC, 7GCA, 7GCB, 7GCAA, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB	1-9997-2	05-06332	**$74.75**
Landing Gear Yoke Plate	Most 7 Series	1-2326	05-06333	**$53.75**
Landing Gear Wheel Retaining Nut	Most 7, 8 & 11 Series	1-706	05-06334	**$64.75**
Landing Gear Axle Spring	7ECA, 7GCAA, 7GGCBC, 7KCAB, 8KCAB	2-1917	05-06335	**$356.00**
Axle Tube	7ECA, 7GCAA, 7GGCBC, 7KCAB, 8KCAB	2-1917-1	05-06336	**$168.75**
Axle Strut Tube	7EC, 7ECA, 7GCAA, 7GCBC, 7HC, 7KCAB	4-1138	05-06337	**$593.00**
Wheel Pant Axle Nuts	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	2-2145	05-06338	**$115.75**
Tail Wheel Spring	7ACA, 7EC, 7GC, 7GCA, 7GCB, 7GCBA, 7GCBC, 7ECA, 7GCAA, 7KC, 7KCAB, 8KCAB, 8GCBC	2-1525	05-06339	**$46.50**
Fitting Assembly	7ACA, 7EC, 7FC, 7GCA, 7GCB, 7GCBA, 7GCBC, 7GC, 7HC, 7KC, 7ECA, 7GCAA, 7KCAB, 8KCAB	18854	05-05555	**$97.75**
Stud Tail Leaf Spring	7ACA, 7EC, 7FC, 7GC, 7GCA, 7GCA, 7HC, 7GCB, 7GBA, 7GCBC, 7ECA, 7GCAA, 7KC, 7KCAB, 8KCAB	18854-1	05-05556	**$10.50**
Fitting	7A, 7ACA, 7B, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7GCBC, 7ECA, 7GCAA, 7KC, 7KCAB, 8KCAB, 11A, 11B, 11C	1555-1	05-05536	**$20.60**
Fairing Clip (narrow)	Most 7, 8, & 11 Series	1-2273	05-05381	**$11.75**
Oleo Packing	7AC, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB, 11AC, 11BC, 11CC	1-2119	05-05373	**$33.85**
Landing Gear Wheel Retaining Nut	7ECA, 7GCBC, 7GCAA, 7KCAB, 8KCAB, 8GCBC	1-10538	05-06340	**$46.60**
Landing Gear Oleo Strut Piston	7AC, 7BCM, 7CCM, 7DC, 11AC, 11BC	1-318	05-06341	**$41.50**

STRINGERS ALL FAA/PMA'D

Mushroom Stringers

Bull Nose Stringers

Requirements for the 7AC Models	# per Aircraft	Style	Length in Inches	OEM P/Ns	Part No.	Price
Stringer	1	Mushroom	84-11/16"	1-2376-1	05-05421	**$74.75**
Stringer	1	Mushroom	92-3/16"	1-2376-2	05-05422	**$74.75**
Stringer	3	Bull Nose	80"	1-2367-1	05-05415	**$64.75**
Stringer	2	Bull Nose	101"	1-2367-2	05-05416	**$72.75**
Stringer	2	Mushroom	103"	1-2366	05-05414	**$75.75**
Stringer	2	Mushroom	144-1/2"	1-2679-1	05-05486	**$48.50**
Requirements for the 7EC - 7FC Models						
Stringer	1	Mushroom	84-11/16"	1-2376-1	05-05421	**$74.75**
Stringer	1	Mushroom	92-3/16"	1-2376-2	05-05422	**$74.75**
Stringer	3	Bull Nose	80"	1-2367-1	05-05415	**$64.75**
Stringer	2	Bull Nose	101"	1-2367-2	05-05416	**$72.75**
Stringer	2	Mushroom	103-1/8"	1-2366	05-05414	**$75.75**
Stringer	2	Mushroom	125"	1-2679-6	05-05489	**$39.50**
Requirements for the 7GC, 7GCA, 7GCB, 7HC Models						
Stringer	1	Mushroom	84-11/16"	1-2376-1	05-05421	**$74.75**
Stringer	1	Mushroom	92-3/16"	1-2376-2	05-05422	**$74.75**
Stringer	3	Bull Nose	80"	1-2367-1	05-05415	**$64.75**
Stringer	2	Mushroom	103-1/8"	1-2366	05-05414	**$75.75**
Stringer	2	Mushroom	125"	1-2679-6	05-05489	**$39.50**
Requirements for the 7ECA, 7GCBC, 7GCAA, 7KCAB Models						
Stringer	3	Bull Nose	80"	1-2367-1	05-05415	**$64.75**
Stringer	2	Bull Nose	101"	1-2367-2	05-05416	**$72.75**
Stringer	1	Mushroom	84-11/16"	1-2376-1	05-05421	**$74.75**
Stringer	1	Mushroom	92-3/16"	1-2376-2	05-05422	**$74.75**
Stringer	2	Mushroom	144-1/2"	1-2679-1	05-05486	**$48.50**
Stringer	2	Mushroom	103-1/8"	1-2366	05-05414	**$75.75**
Requirements for the 8GCBC Model						
Stringer	2	Mushroom	103-1/8"	1-2366	05-05414	**$75.75**
Stringer	2	Bull Nose	80"	1-2367-1	05-05415	**$64.75**
Stringer	2	Bull Nose	101"	1-2367-2	05-05416	**$72.75**
Stringer	2	Mushroom	144-1/2"	1-2679-1	05-05486	**$48.50**
Add if greenhouse is used	2	Mushroom	114"	1-9992	05-05608	**$64.75**
Requirements for the 8KCAB Model						
Stringer	2	Mushroom	114"	1-9992	05-05608	**$64.75**
Stringer	2	Mushroom	103-1/8"	1-2366	05-05414	**$75.75**
Stringer	3	Bull Nose	80"	1-2367-1	05-05415	**$64.75**
Stringer	2	Bull Nose	101"	1-2367-2	05-05416	**$72.75**
Stringer	1	Mushroom	84-11/16"	1-2376-1	05-05421	**$74.75**
Stringer	1	Mushroom	92-3/16"	1-2376-2	05-05422	**$74.75**
Requirements for the 11AC Model						
Stringer	1	Bull Nose	132"	1-2367-6	05-05418	**$35.50**
Stringer	4	Bull Nose	117-1/2"	1-2367-3	05-05417	**$50.75**
Stringer	2	Bull Nose	103"	2-771	05-05719	**$30.50**
Stringer	2	Mushroom	113-1/2"	2-772	05-05720	**$61.75**

NOTE: Some parts on this page are primed or varnished in accordance to FAA Approved Drawings.

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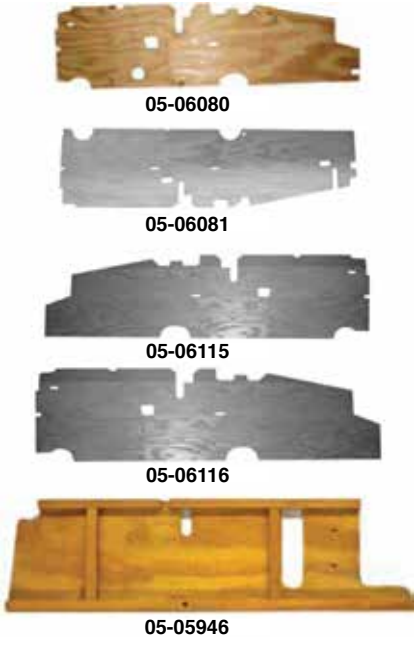
BULKHEADS ALL FAA/PMA'D

Requirements for the 7AC Models	# per Aircraft	OEM P/Ns	Part No.	Price
Bulkhead	2	4-555	05-05986	$68.75
Bulkhead	2	4-556	05-05987	$49.55
Bulkhead	2	4-557	05-05988	$54.75
Bulkhead	2	7-455	05-06175	$86.75
Requirements for the 7EC & 7FC Models				
Bulkhead	2	4-555	05-05986	$68.75
Bulkhead	2	4-556	05-05987	$49.55
Bulkhead	2	4-557	05-05988	$54.75
Bulkhead	2	7-455	05-06175	$86.75
Bulkhead	2	5-393	05-06130	$79.75
Requirements for the 7GC, 7GCA, 7GCB, 7HC Models				
Bulkhead	2	4-556	05-05987	$49.55
Bulkhead	2	4-555	05-05986	$68.75
Bulkhead	2	5-393	05-06130	$79.75
Bulkhead	2	7-455	05-06175	$86.75
Bulkhead	2	4-557	05-05988	$54.75
Requirements for the 7ECA, 7GCAA, 7GCBC, 7KCAB Models				
Bulkhead	2	7-1259	05-06143	$100.75
Bulkhead	2	5-393	05-06130	$79.75
Bulkhead	2	4-555	05-05986	$68.75
Bulkhead	2	4-556	05-05987	$49.55
Bulkhead	2	4-557	05-05988	$54.75
Bulkhead	1	2-2046	05-05665	$40.75
Requirements for the 8GCBC Models				
Bulkhead	2	7-1259	05-06143	$100.75
Bulkhead	2	5-393	05-06130	$79.75
Bulkhead	2	4-555	05-05986	$68.75
Bulkhead	2	4-556	05-05987	$49.55
Bulkhead	1	2-2046	05-05665	$40.75
Requirements for the 8KCAB Models				
Bulkhead	2	7-1259	05-06143	$100.75
Bulkhead	2	5-10000	05-06066	$67.75
Bulkhead	2	4-555	05-05986	$68.75
Bulkhead	2	4-556	05-05987	$49.55
Bulkhead	1	2-2046	05-05665	$40.75
Requirements for the 11AC Models				
Bulkhead	2	4-586	05-05999	$67.75
Bulkhead	2	4-587	05-06001	$44.50
Bulkhead	2	4-589	05-06002	$54.75
Bulkhead	2	7-510	05-06209	$60.75
Bulkhead	2	7-512	05-06210	$86.75

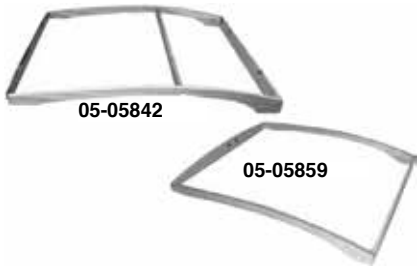
FLOORBOARDS ALL FAA/PMA'D

Requirements for the 7AC Models	# per Aircraft	OEM P/Ns	Part No.	Price
Floorboard	1	5-158L	05-06080	$144.85
Floorboard	1	5-158R	05-06081	$144.85
Floorboard	1	3-484	05-05833	$96.75
Requirements for the 7EC Models				
Floorboard	1	5-158L	05-06080	$144.85
Floorboard	1	5-158R	05-06081	$144.85
Floorboard	1	4-878	05-06343	$134.90
Requirements for the 7FC Models				
Floorboard	1	3-484	05-05833	$96.75
Requirements for the 7GC, 7GCA, 7GCB, 7HC Models				
Floorboard, All models	1	4-1032	05-05878	$110.75
Floorboard, 7GC, 7GCA, 7GCB only	1	5-158L	05-06080	$144.85
Floorboard, 7GC, 7GCA, 7GCB only	1	5-158R	05-06081	$144.85
Requirements for the 7ECa Models				
Floorboard	1	5-296L	05-06115	$129.75
Floorboard	1	5-296R	05-06116	$129.75
Floorboard	1	4-1032	05-05878	$110.75
Floorboard	1	4-1378	05-05891	$121.75
Requirements for the 8GCBC & 8KCAB Models				
Floorboard	1	5-296L	05-06115	$129.75
Floorboard	1	5-296R	05-06116	$129.75
Floorboard	1	4-1032	05-05878	$110.75
Floorboard	1	4-1378	05-05891	$121.75
Floorboard	1	4-1600	05-05946	$101.80
Requirements for the 11AC Models				
Floorboard	1	3-510	05-05835	$89.75
Floorboard	1	3-511	05-06346	$108.75
Floorboard Clamp for all Models EXCEPT 11 Series	-	1-2575	05-05469	$16.50



TOP CABIN ASSEMBLY & COMPONENTS ALL FAA/PMA'D

Requirements for the 7AC, 7ACA, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBC, 7ECA, 7GCAA, 7HC, 7KC, 7KCAB, 8GCBC Models	OEM P/Ns	Part No.	Price
Top Cabin Assembly	3-525	05-05842	$292.95
Requirements for the 7BCM & 7CCM			
Top Window Support Assembly	3-585	05-05859	$329.00
Requirements for the 11AC Models			
Top Cabin Components, Sides	5-170	05-06090	$100.75
Top Cabin Components, Front	5-171	05-06091	$103.75
Top Cabin Components, Rear	5-163	05-06084	$72.80
Top Cabin Components, Middle	5-178	05-06094	$47.65
Requirements for the 8KCAB Models			
Top Cabin Assembly	3-1439	05-06347	$216.95



AP

AERONCA/BELLANCA REPLACEMENT PARTS

FUEL TANKS & COMPONENTS ALL FAA/PMA'D

Description	Models	Strap Length	OEM P/Ns	Part No.	Price
13 Gallon Wing Tank Kit LH/RH	7AC, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7KC	---	7-10001R (right tank only)	05-06132	**$1,098.00**
Fuel Tank Strap (inboard & outboard) for tank 7-10001	7ECA, 7GCAA, 7GCBC, 7KCAB	28.938"	2-942-8	05-05854	**$22.80**
Fuel Tank Strap	8KCAB	23.38"	2-761-10	05-06352	**$32.50**
Fuel Tank Strap	11AC, 11BC, 11CC	9.68"	2-761-1	05-05709	**$43.75**
6 Gallon Fuel Tank LH/RH	7CCM, 7DC, 7EC	---	7-772L	05-06215	**$857.00**
			7-772R	05-06216	**$1,000.00**
Fuel Tank Strap (outboard) for tank 7-772	7CCM, 7DC, 7EC	27.75"	2-942-5	05-05758	**$344.00**
Fuel Tank Strap for tank 7-511	11AC	77.875"	2-761-1	05-05709	**$43.75**
		39.50"	2-761-2	05-05710	**$42.80**
		11.00"	2-761-3	05-05711	**$32.50**
Fuel Tank Strap for tank 7-460	7AC, 7CCM, 7DC, 7E	67.50"	2-761-5	05-05712	**$40.75**
Fuel Tank Strap for tank 7-460	7AC	45.50"	2-761-6	05-05713	**$40.80**
Fuel Tank Strap	7ECA, 7GCAA, 7GCBC, 7KCAB	29.63"	2-761-8	05-06561	**$46.50**
Fuel Tank Channel Support	8KCAB	---	4-1496	05-06353	**$64.75**
Wing Tank Channel Support	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC	---	4-1498	05-06354	**$104.75**
Fuel Manifold, front	7EC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC	---	1-8880-1	05-06355	**$78.75**
Fuel Manifold, front	7EC, 7ECA, 7FC, 7JC	---	1-8880-2	05-05567	**$63.75**
Fuel Shut Off Tube	7A, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7HC	---	1-2456-1	05-05445	**$54.99**
Non-Vented Fuel Cap	Most 7 & 11 Series		1-2593-2	05-05478	**$26.95**
Vented Fuel Cap	Most 7 & 11 Series	---	1-2593-1	05-06357	**$12.50**
Fuel Tank Vent Fitting	8GCBC	---	1-10522	05-06358	**$34.50**
Fuel Shut Off Universal Joint	Most 7 Series	---	1-2458	05-05448	**$47.65**

COWLING PARTS ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Top Cowl	7AC & 11AC	7-473	05-06185	**$442.00**
Bottom Cowl	7AC, 7B, 7BCM, 7CCM, 7DC, 11AC, 11B	7-472	05-06184	**$435.00**
Windshield Retainer	Most 7 Series	7-487	05-06194	**$151.75**
Lower Cowling	7ECA, 7GCAA, 7GCBC, 7KCAB, 1965 to Early 1973	7-1282-2	05-06147	**$642.00**
Fiberglass Upper Cowling w/o Doors	7ECA, 7GCAA, 7GCBC, 7KCAB, 1965 to Early 1973	7-1282-1	05-06146	**$490.00**
Angle Support Cowl Upper	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	2-1890-1	05-06361	**$12.50**
Cowling	7ECA, 7GCAA, 7GCBC, 7KCAB 1973, 8KCAB w/150 hp	7-1455-1 (upper)	05-06156	**$355.00**
		7-1455-2 (lower)	05-06362	**$742.00**
Cowling	8KCAB w/180 hp, 1973	7-1455-3 (lower)	05-06363	**$994.00**
Cowling	7ECA, 7GCAA, 7GCBC, 7KCAB, 1974 to 1980, 8KCAB w/150 hp only	7-1469-1 (upper)	05-06364	**$522.00**
Cowling	8KCAB w/180 hp, 1973	7-1482-1 (upper)	05-06365	**$448.00**
		7-1482-2 (lower)	05-06366	**$784.00**
Nose Bowl Fiberglass	7AC, 7BCM, 7CCM, 7DC, 7EC, 7FC, 11AC	4-576	05-06367	**$522.00**
Nose Bowl Fiberglass	7EC, 7FC	7-1081	05-06140	**$536.00**

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FIREWALLS ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Firewall (no large holes)	7AC, 7BC, 7CC, 7EC, 7FC, 7GC, 7GCB, 7HC, 7JC, 7KC, 7GCA, 7GCBA, 7GCAA, 7GCBC, 7KCAB, 7ECA, 8KCAB, 11AC, 11BC, 11CC	4-860-2	05-06043	**$356.00**
Firewall (2 large holes, w/bottom cut out, Scout)	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB. w/cutout	4-1640	05-05950	**$110.75**

ELEVATORS & COMPONENTS ALL FAA/PMA'D

Description	Models	OEM P/Ns	Cat. No.	Price
Elevators	8KCAB	4-1701 (left)	05-06370	**$1,009.00**
Elevators	7AC, 7ACA,7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7JC, 11AC, 11BC, 11CC *4-864 replaces 4-544 per service bulletin #19 *4-865 replaces 4-543 per service bulletin #19	4-544 (left)*	05-06045	**$947.00**
		4-543 (right)*	05-06046	**$921.00**
Elevators	7ECA, 7GCAA, 7KCAB, 7GCBC	4-1669 (right)	05-05960	**$601.00**
Elevator Frame Assembly, RH	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	4-1479	05-05929	**$782.00**
Guard Tab Cable Pulley	7A, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7KC, 7KCAB, 8KCAB, 11A, 11B, 11C	1-2399	05-05430	**$14.50**
Elevator Trim Tab	All Models	4-562	05-05990	**$63.75**
Elevator Trim Cable	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	2-1905	05-05646	**$101.95**
Elevator Trim Control Cable	7AC, 7EC, 7FC, 7GC, 7GCA, 7HC	2-698	05-05690	**$115.75**
Up Elevator Control Cable	7A, 7B, 7BCM, 7CCM, 7DC, 7EC, 7FC	3-471	05-05830	**$193.75**
Up Elevator Cable	7ECA, 7GC, 7GCA, 7HC, 7KC, 8KCAB, 8GCBC	3-1072	05-05764	**$314.00**
Down Elevator Cable	7ECA, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBC, 7HC, 7KC, 7KCAB, 8GCBC, 8KCAB	2-1534	05-05619	**$190.75**
Elevator Stop Bolt	7AC, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA, 7KC, 11AC, 11BC, 11C	1-2540	05-05461	**$30.50**

STABILIZER FRAME & COMPONENTS ALL

Description	Models	OEM P/Ns	Cat. No.	Price
Stabilizer Drag Wire Assembly, Lower	7ECA, 7GCAA, 7KCAB, 8KCAB, 8GCBC	3-1107-2	05-05766	**$169.75**
Stabilizer Drag Wire Assembly, Upper	7ECA, 7GCAA, 7KCAB, 8KCAB, 8GCBC	2-1746-4	05-05632	**$136.75**
Stabilizer Brace Wire	Most 7, 8, and 11 Series	1-2340	05-05405	**$67.75**
Stabilizer Brace Wire Lug	Most 7, 8, and 11 Series	1-2357	05-05408	**$15.90**

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AERONCA LOGO HAT

Go back with us to a bi-gone era and wear the symbols of these vintage aircraft. These hats are chino washed unconstructed cotton twill. They have velcro closures and pre-curved bills. They are putty with navy sandwich bills.

P/N 14-00176 ..... **$14.50**

ENGINE BAFFLE ASSEMBLY & COMPONENTS ALL FAA/PMA'D

05-05371

05-05544

05-06376

05-06180

05-06186

05-05955

05-05814
05-05816

05-06059

Description	Models	OEM P/Ns	Part No.	Price
Inter-Cylinder Baffle - Cylinder Head	7AC, 7BC, 7CC, 7DC, 7EC, 7FC, 7JC, 11AC, 11B, 11C	1-1737	05-05371	**$29.90**
Inter-Cylinder Baffle	7AC, 7BC, 7CC, 7DC, 7EC, 7FC, 11AC, 11B, 11C	1-873	05-05544	**$16.50**
Cylinder Head Baffle Spring Rod	7AC, 7BC, 7BCM, 7CCM, 7DC7EC, 7FC, 11A, 11B, 11C	1-2424	05-05440	**$11.75**
Cylinder Head Baffle Spring	7AC, 7BC, 7BCM, 7CCM, 7DC7EC, 7FC, 11A, 11B, 11C	1-1776	05-06376	**$32.50**
Baffle, Crankcase	7AC, 11AC	7-470 (right)	05-06180	**$174.95**
		7-469 (left)	05-06178	**$172.75**
		7-471 (upper)	05-06182	**$112.90**
Cylinder Baffles	7AC, 11AC	7-475 (right rear)	05-06186	**$122.75**
Bracket Front Cylinder Baffle (Component to 7-477 & 7-478)	7AC, 7CCM, 7DC, 11AC	1-2414R	05-05434	**$20.50**
		1-2414L	05-05433	**$20.50**
Engine Baffle Assembly	7GCBC, 7KCAB, 7GCAA, 8KCAB w/150 hp only	3-1395R (right side)	05-05785	**$216.95**
		3-1395L (left side)	05-05783	**$213.95**
Engine Baffle Assembly	7GCAA, 7GCBC, 7KCAB, 8KCAB	4-1421 (left front)	05-05908	**$184.75**
		4-1422 (right front)	05-05910	**$185.99**
		4-1427 (right rear)	05-05912	**$234.95**
Engine Baffle Assembly	8GCBC, 8KCAB	3-1563R (right side)	05-05816	**$96.75**
		3-1563L (left side)	05-05814	**$94.90**
		4-1654 (right front)	05-05955	**$179.75**
		4-1653 (left front)	05-05954	**$206.95**
		4-1656 (right rear)	05-05957	**$133.75**
		4-1658 (left rear)	05-05959	**$232.95**
		4-741 (lower left)	05-06039	**$115.75**
		4-742 (lower right)	05-06041	**$101.80**
Engine Baffle Assembly	7EC, 7FC	4-879 (left front)	05-06057	**$229.95**
		4-880 (right front)	05-06059	**$209.95**
		4-881 (left rear)	05-06061	**$162.75**
		4-882 (right rear)	05-06063	**$228.95**
Flange Air Heater Inlet	7A, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7JC, 7KC, 11AC, 11BC, 11CC	1-2442	05-05442	**$62.75**
Engine Baffle w/1" holes	8GCBC	4-1657	05-05958	**$86.75**
Engine Baffle Seal Material *Meets AN, MS, or Mil-Spec	**Sold per square foot.**	T8071-1	05-06377	**$45.50**

If the baffle you need is not listed, please call and inquire. We have many more Aeronca, Bellanca and Champion baffles. Too many to list here.

TAIL FEATHER COMPONENTS & HARDWARE ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Rudder	7AC, 7ACA, 7BCM, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCA, 7GCB, 7GCBA,7HC, 7KC, 11CC, 11BC	4-866	05-06047	**$674.00**
Guard - Rudder Cable Pulley	Most 7 and 11 Series	1-2398-1 (unpainted)	05-05429	**$17.50**
		1-2398-2 (unpainted)	05-06379	**$13.75**
Hinge Bushing	Most 7EC and up Series, 8GCBC & 8KCAB (.25 ream)	1-3737	05-06380	**$14.50**
Hinge Bushing	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	1-3737-1	05-06381	**$9.50**
Bolt (Code 5)	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	AN23-40	AN23-40	**$2.42**
Pin (Code 5)	7, 8 & 11 Series	AN394-71	05-06382	**$2.47**
Rudder Pedal Control Bearing Block	11B, 11C	1-2892-2	05-06383	**$93.75**
Cable - Front to rear rudder pedal	7AC, 7BCM, 7CCM, 7DC, 7EC, 7GC, 7GCBC, 7CCA, 7GCBA, 7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC	1-2280	05-05384	**$100.75**
Rudder Control Cables, Left & Right	11AC, 11B , 11C	1-2496-2 (left)	05-05455	**$72.80**
		1-2496-3 (right)	05-05456	**$72.80**
Rear Rudder Pedal Spring	Most 7 Series	1-2568	05-06384	**$28.50**
Rudder Pedal Spring	Most 7 Series	1-769	05-06385	**$19.50**

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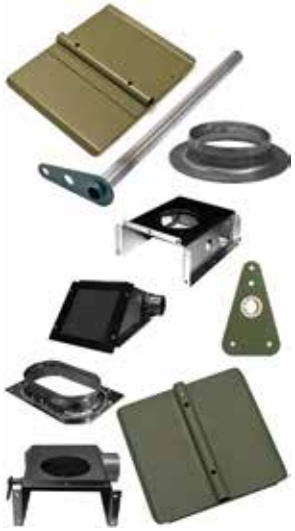

CARB AIR SCOOP AND HEATER BOX ASSEMBLIES FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Carb Air Scoop Bearing Plate Assembly	Most 7 & 11 Series	1-2563	05-05465	**$48.50**
Carb Air Scoop Valve Shaft Arm	Most 7 Series	1-8950	05-05573	**$103.75**
Carb Air Scoop Valve Assembly	7GCBC, 7ECA, 7GCAA, 7KCAB	2-2141	05-05670	**$46.50**
Carb Air Scoop Valve Assembly	8KCAB	2-2142	05-06386	**$81.75**
Air Box Outer Housing	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	3-1546	05-05812	**$248.95**
Carb Air Scoop Flange	7GCBC, 7ECA, 7GCAA, 7KCAB, 8KCAB, 8GCBC	2-2083	05-05667	**$121.75**
Flange - Carb Heat Inlet	7AC, 7BCM, 7CCM, 11AC	1-2492	05-05454	**$34.50**
Air Filter	7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB	CA121PL	05-06387	**$39.50**
NAPA Air Filter - Direct replacement of FRAM	7GCA, 7GCB, 7GC, 7HC ***EXPERIMENTAL ONLY**	CA161PL	05-06388	**$39.50**

AP

HARDWARE PARTS ALL FAA/PMA'D

Description	Models	OEM P/Ns	Part No.	Price
Aileron Control Sector Bushing	7GCBC, 7ECA, 7GCAA, 7KCAB, 8GCBC	1-10369	05-06389	**$92.75**
Socket-Control Stick Bushing	Most 7 & 8 Series	1-2550	05-06390	**$25.70**
Oleo Shock Strut Bushing	Most 7 & 11 Series	1-2565	05-06323	**$82.75**
Fairlead Pulley Bushing	Most Models. Except 8GCBC	1-2636	05-06391	**$17.75**
Oleo Strut Bushing	Most 7 & 11 Series. Except 7AC, 11AC	1-2788	05-05505	**$24.50**
Hinge Bushing	Most 7EC and up Series, 8GCBC & 8KCAB (.25 ream)	1-3737	05-06380	**$14.50**
Hinge Bushing	Most 7EC and up Series, 8GCBC & 8KCAB (.187 ream)	1-3737-1	05-06381	**$9.50**
Cable - Front to rear rudder pedal	7AC, 7BCM, 7CCM, 7DC, 7EC, 7GC, 7GCBC, 77CCA, 7GCBA,7ECA, 7GCAA, 7GCBC, 7KCAB, 8KCAB, 8GCBC.	1-2280	05-05384	**$100.75**
Stabilizer Cable Wire Brace	Most 7, 8, & 11 Series	1-2340	05-05405	**$67.75**
Rudder Control Cables, Left & Right	11AC, 11B , 11C	1-2496-2 (left)	05-05455	**$72.80**
		1-2496-3 (right)	05-05456	**$72.80**
Air Duct Flange	Most 7EC-7KCAB, 8 Series	1-3670	05-06392	**$17.60**
Rectangular Gasket	Most 7 & 8 Series	1-10019	05-06393	**$8.99**
Large Light Bracket Retainer	7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7GCBA, 7KC	1-8745	05-06394	**$43.55**
Cleveland O-Ring*	---	101-50353	05-06395	**$21.95**
Cushioned Clamps - Loop-type, Cushioned, line support clamps, made of aluminum alloy. Cushion is non-fuel resistant.				
5/8" Clamp*	---	MS21919-DG10	MS21919-DG10	**$0.53**
1/8" Clamp*	---	MS21919-DG2	MS21919-DG2	**$0.80**
3/16" Clamp*	---	MS21919-DG3	MS21919-DG3	**$0.63**
1/4" Clamp AN742-4*	---	MS21919-DG4	MS21919-DG4	**$0.32**
7/16" Clamp*	---	MS21919-DG7	MS21919-DG7	**$0.72**
Pulley - Aileron Control	7ACA, 7ECA, 7GCAA, 7GCBC, 7KCAB	1-10309	05-05348	**$71.80**
Pulley - Fairlead (aluminum)	Most 7, 8 & 11 Series	1-2395	05-06397	**$34.50**
Pulley Guard (rudder cable)	Most 7, 8 & 11 Series	1-2398-1	05-05429	**$17.50**
Pulley*	---	(AN210) MS24566-4B	MS24566-4B	**$48.99**
Anti Friction Bearing Pulley (Non-Metallic)*	MS24566-3B	MS24566-3B	MS24566-3B	**$37.50**
Pulley - Aileron Control Cable	7GCBC, 7ECA, 7GCAA, 7KCAB, 8GCBC	1-10365	05-06398	**$85.75**
Cylinder Head Baffle Spring	Most 7AC-7FC, & 11Series	1-1776	05-06376	**$32.50**
Rear Rudder Pedal Spring	Most 7 & 8 Series	1-2568	05-06384	**$28.50**
Rudder Pedal Spring	Most 7 & 8 Series	1-769	05-06385	**$19.50**
Torque Tube Bearing Block (phenolic)	Most 7 Series and 8KCAB	1-2599	05-06399	**$115.75**
Torque Tube Bearing Block (aluminum)	7ECA, 7GCAA, 7GCBC, 7KCAB, 8GCBC, 8KCAB	1-10370	05-06400	**$97.75**
Fabric Hold Down Washer	Most 7 & 11 Series	1-2331	05-06401	**$0.28**
Clamp Assembly 1-1/2" Diameter Tube	7CCM, 7EC, 7FC, 7GC, 7GCA, 7HC, 7GCB, 7ECA, 7GCAA, 7KCAB, 7KC	1-2941	05-05516	**$43.50**
Bowden Cables - (solid wire ends). Spiral wound galvanized wire casing. Used for push-pull controls of any length. I.D. .078 and O.D. 7/32" dia.				
Bowden Cable Casing, 38-1/8" long	7ECA	1-2578-11	05-06402	**$26.50**
Bowden Cable Casing, 56" long	7ECA	1-2578-12	05-06403	**$28.50**
Bowden Cable Casing, 56" long	7AC, 7CCM, 7DC, 7EC, 7FC, 7GC, 7GCB, 7JC	1-2578-3	05-05472	**$48.99**
Bowden Cable Casing, 24-3/4" long	7EC, 7BCM, 11AC, 11B	1-2578-4	05-05473	**$44.85**
Bowden Cable Casing, 16" long	11AC, 11B	1-2578-5	05-06404	**$60.75**
Bowden Cable Casing, 21" long	11AC, 11B	1-2578-6	05-05474	**$44.85**
Bowden Cable Casing, 23" long	11AC, 11B	1-2578-7	05-05475	**$44.85**

*** Meets AN, MS, or Mil-Spec**

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(FAA/PMA APPROVED)

WING LIFT STRUTS

New, Improved Steel Struts—Sealed and Oiled to prevent Internal Corrosion. (Except Decathlon aluminum front struts)

7AC Front Strut ..... P/N 05-08515 ..... **$942.00**
7AC Rear Strut ..... P/N 05-08520 ..... **$757.00**
Citabria Front Strut ..... P/N 05-08535 ..... **$1,001.00**
Decathlon Front Strut, Left ..... P/N 05-08545 ..... **$1,387.00**
Decathlon Front Strut, Right ..... P/N 05-08550 ..... **$1,397.00**
Decathlon Rear Strut ..... P/N 05-08555 ..... **$787.00**
Scout Front Strut ..... P/N 05-08565 ..... **$841.00**
Scout Rear Strut ..... P/N 05-08570 ..... **$786.00**

Heavy Duty Wing Lift Struts - Wall tube: .049" & complies with ad 77-22-05 for: Aeronca: 7AC, Champion: 7EC, Citabria: 7ECA. Visit our website for complete application info.

11AC Front Strut ..... P/N 05-08525 ..... **$989.00**
11AC Rear Strut ..... P/N 05-08530 ..... **$748.00**

WING LIFT STRUT FORK

P/N 05-08575 ..... **$123.90**

7AC CONTROL CABLES (GALVANIZED STEEL)

Short Aileron Cable (2 req'd) ..... P/N 05-08580 ..... **$64.75**
Rudder Cable, Long (2 req'd) ..... P/N 05-08585 ..... **$161.75**
Rudder Cable, Short (2 req'd) ..... P/N 05-08590 ..... **$148.99**
Aileron Control Cable (4 req'd) ..... P/N 05-08595 ..... **$129.75**
Brake Cable and Housing Assembly (2 req'd), (PMA App.) ..... P/N 05-08600 ..... **$174.95**
Brake Cable Only (2 req'd) ..... P/N 05-08605 ..... **$71.75**
Down Elevator Cable (1 req'd) ..... P/N 05-08610 ..... **$201.95**
Down Elevator Cable ..... P/N 05-08615 ..... **$243.95**
Trim Cable (2 req'd) ..... P/N 05-08620 ..... **$126.75**
Up Elevator Cable (1 req'd) ..... P/N 05-08625 ..... **$486.00**

CITABRIA AIR INDUCTION TUBE

P/N 05-08630 ..... **$43.50**

CITABRIA FUEL GAUGE COVER

P/N 05-08635 ..... **$165.75**

TAILBRACE WIRE LUG

P/N 05-08640 ..... **$28.50**

EXHAUST SYSTEM FOR 7AC/11AC

LH Stack ..... P/N 05-08705 ..... **$547.00**
RH Stack ..... P/N 05-08710 ..... **$510.00**
Heat Muff ..... P/N 05-08715 ..... **$405.00**

CITABRIA FUEL VENT DEFLECTOR

P/N 05-08655 ..... **$110.75**

AERONCA 7AC STYLE HUB CAPS

These experimental Aeronca 7AC like style Caps will help you achieve the pre or post war appearance you are looking for without taking away from the performance. Sold as a pair.... P/N 05-12326 ..... **$133.75**

AERONCA 7AC STYLE CONTROL STICK WOOD KNOBS

These experimental Aeronca 7AC like style Control Stick Wood Knobs will help you achieve the pre or post war appearance you are looking for without taking away from the performance. Sold as a pair.

P/N 05-12327 ..... **$33.50**

MAGNETO BLAST TUBE ASSEMBLY

Magento Blast Tube Assembly. 7ECA, 8KCAB, 8GCBC..... P/N 05-09141 ..... **$37.50**

STAINLESS STEEL TAILBRACE WIRE

7AC, 7EC, 7FC—UPPER & LOWER

Citabria, Decathlon, Scout—Lower

1. Wire Only ..... P/N 05-08665 ..... **$76.95**
3. Assembly ..... P/N 05-08670 ..... **$114.75**

Citabria, Decathlon, Scout—Upper

2. Wire Only ..... P/N 05-08675 ..... **$75.75**
4. Assembly ..... P/N 05-08680 ..... **$110.75**

ALL ALUMINUM COWLING

This nose cowl is approved for the Aeronca with a 65 or 75 HP Continental engine. The depth is 7.25", top to bottom, 25.25" and left to right, 34.25".

Nose Cowl ..... P/N 05-08685 ..... **$2,295.00**
Fuselage Cowl (7AC only) P/N 05-08690 ..... **$1,185.00**
Top Cowl ..... P/N 05-08695 ..... **$652.00**
Bottom Cowl ..... P/N 05-08700 ..... **$253.95**

LANDING GEAR U-BOLTS

Citabria/Decathlon. ..... P/N 05-08645 ..... **$307.00**
Scout (new style) ..... P/N 05-08650 ..... **$234.95**
(Hardware required—see below)

LANDING GEAR ATTACH HARDWARE FOR CITABRIA, DECATHLON, SCOUT

For Citabria and Decathlon

Nut (6 required) ..... P/N 05-08720 ..... **$30.50**
Bolt (2 required) ..... P/N 05-08725 ..... **$40.75**
Cupped Washer (2 req.) ..... P/N 05-08730 ..... **$0.36**
Washer (6 required) ..... P/N 05-08735 ..... **$0.63**

For Scout

Nut (6 required) ..... P/N 05-08720 ..... **$30.50**
Bolt (2 required) ..... P/N 05-08745 ..... **$47.85**
Cupped Washer (2 req.) ..... P/N 05-08730 ..... **$0.36**
Washer (6 required) ..... P/N 05-08735 ..... **$0.63**

OLEO SHOCK STRUT

Fits 7ECA, 7GCAA and 7GCBC:
with High Energy Taxi Spring ..... P/N 05-08740 ..... **$1,563.00**
with Standard Spring ..... P/N 05-08750 ..... **$1,296.00**
Fits 7AC and 11AC ..... P/N 05-08755 ..... **$1,469.00**
7AC and 11AC Spring Only ..... P/N 05-08760 ..... **$126.80**

LANDING GEAR OLEO CASE FRAME

Oleo Case Frame (Uncovered)

7AC & 11AC Series ..... P/N 05-08765 ..... **$1,240.00**
Early Citabria ..... P/N 05-08770 ..... **$1,071.00**

TAILWHEEL LEAF SPRINGS – COMPLETE SETS

Citabria/Decathlon (short) .. P/N 05-08780 ..... **$285.95**
Scout (long) ..... P/N 05-08785 ..... **$304.00**

LANDING GEAR AXLE ASSEMBLY FOR AERONCA & CITABRIA

Early Citabria Axle Strut. P/N 05-08790 ..... **$1,220.00**
Aeronca Axle Strut ..... P/N 05-08795 ..... **$1,324.00**

AERONCA HINGE BUSHING

P/N 05-06380 ..... **$14.50**

AERONCA REAR RUDDER PEDAL SPRING

P/N 05-06384 ..... **$28.50**

AERONCA RUDDER PEDAL SPRING

P/N 05-06385 ..... **$19.50**

AERONCA TAILSPRING U BOLT

P/N 05-08066 ..... **$55.90**

AERONCA WING SPIN SUPPORT BLOCK

P/N 05-05337 ..... **$8.99**

NAVION – TAYLORCRAFT PARTS

(FAA/PMA APPROVED)

NAVION PARTS

Aircraft Spruce is a factory authorized distributor for these Navion parts manufactured under FAA/PMA approval. These parts are eligible for installation on all Navion models unless otherwise noted.

Description	Navion P/N	Part No.	Price
Fuel Selector Valve Main-off	147-30013-201	05-04271	**$2,037.00**
Fuel Selector Valve Main-Auxoff	147-30013-202	05-04272	**$2,133.00**
Fuel Selector Valve Left-Main-RGT-O	147-30013-203	05-04273	**$2,174.00**
Digital fuel qty gauge Main	147-40002-1001	05-04274	**$1,303.00**
Digital fuel qty gauge MN/AUX	147-40002-1002	05-04275	**$1,374.00**
Digital fuel qty gauge L/R	147-40002-1003	05-04276	**$1,129.00**
Fuel level Transmitter 5 hole	173-70010-20	05-04277	**$616.00**
Fuel level Transmitter AUX TNK	145-51071-4	05-04279	**$1,081.00**
Fuel level Transmitter TIP TNK	161.30015.67	05-04280	**$551.00**
Flush Fuel Cap	147-30012-150	05-04281	**$1,019.00**
Mixture Cable-Vernier	205-30001-1002	05-04283	**$1,096.00**
Propeller Cable-Vernier	205-30001-1003	05-04284	**$1,034.00**
Baggage Door	--	05-04285	**$5,296.00**
Overhead Panel	147-40002-136-1	05-04286	**$495.00**
Cable Roller Assembly Set of 4	145-52301-3	05-04287	**$165.75**
Primary Monitor - CHT, EGT, and more	147-40002-1007	05-04288	**$2,897.00**
Pilot & Co-Pilot Shoulder Restraints	173-53001	05-04289	**$546.00**
Nose Gear Seal Kits	145-S145-34102-900	05-04290	**$234.95**
Main Gear Seal Kit	145S33102-900	05-04291	**$68.75**
Aft. Equipment rack	147-40005	05-04292	**$2,162.00**
Texas Patch LH	161-31023-1	05-04293	**$163.90**
Texas Patch RH	161-31023-2	05-04294	**$163.90**
Canopy Felt with Inst Letter 28	--	05-04295	**$134.90**
Heated Pitot Tube Mast	161-51002-11	05-04296	**$783.00**
Sloped Windshield	162-31801	05-04297	**$2,816.00**

(FAA/PMA APPROVED)

TAYLORCRAFT ENGINE MOUNT

For 65 hp. Continental . P/N 05-08955 ..... **$1,632.00**
For 85 hp. Continental . P/N 05-08960 ..... **$1,717.00**

TAYLORCRAFT EXHAUST SYSTEM

For all 65 hp. Continental engines in B series through BC 12 series..... P/N 05-08965 ..... **$2,719.00**

TAYLORCRAFT B, BC, & LIFT STRUTS
(OILED AND SEALED)

Taylorcraft Front Lift Strut ..... P/N 05-08970 ..... **$995.00**
Taylorcraft Rear strut..... P/N 05-08975 ..... **$882.00**
Note: all post WWII will not work on a Taylor A/C F/L2M

TAYLORCRAFT LEADING EDGE SKINS

Outboard Leading Edge (54 1/4") ..... P/N 05-08980 ..... **$150.75**
Center Leading Edge (57 1/4")..... P/N 05-08985 ..... **$166.75**
Inboard Leading Edge (64") ..... P/N 05-08990 ..... **$184.80**
Note: all post WWII will not work on a Taylor A/C F/L2M

TAYLORCRAFT HEAT SHROUD

P/N 05-08995 ..... **$1,579.00**

TAYLORCRAFT ALUMINUM NOSE COWL

Applicable to B series and BC12D Continental powered Taylorcraft (cowl grills not included)
P/N 05-09005 ..... **$1,985.00**

TAYLORCRAFT NOSE COWL GRILLS

Stamped aluminum grills with natural aluminum finish. For all standard Taylorcraft nose cowls.
Left Grill ..... P/N 05-09010 ..... **$109.75**
Right Grill..... P/N 05-09015 ..... **$104.75**

TAYLORCRAFT WHEEL FENDER

FAA approved Taylorcraft Fiberglass Wheel Fender Fits 6.00 x 6-6ply tires and other classic models. Code 4 ..... P/N 05-07231 ..... **$351.00**

TAYLORCRAFT AILERON BALL STUD

P/N 05-07229 ..... **$54.80**

TAYLORCRAFT TAIL SURFACE HINGE BUSHING

Taylorcraft Controls Bushing - graphite SAE 841 Bronze Sleeve bearing, for 1/4" Shaft Diameter, 5/16" OD, 3/4 " Length.
P/N 05-11459 ..... **$10.50**

TAYLORCRAFT HINGE PIN

Pin - Tail Surface Hinge Taylorcraft.
P/N 05-11460 ..... **$8.50**

AP