Alpha Systems Falcon AOA Calibration Error Definitions

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FAILURE		AUDIO RESPONSE	DISPLAY RESPONSE	
Ground, Zero Calibration - on ground, engine off, no airflow at AOA probe (clears all settings)				
Pressure - Too High		"Invalid set-point"	_	
(IM) and repeat steps 1-3 of section If the condition persists, then the fail If the setting is successful, the failure	1.5 in the operations manual. lure is electrical and the IM should be	the air hoses or AOA probe, etc. Identify the	ALL LEDS FLASH CONTINUOUSLY	



In-Flight Calibrations Optimum Alpha Angle (OAA) Vs x 1.3 "Invalid set-point" Pressure - Too Low **ERROR: FLASHES 3X THEN GOES** If the pilot could not get a valid OAA value entered during the CAL button push and the display flashed BLUE and RED DARK AND CONTINUES TO FLASH segments, the aircraft must be landed, and the AOA probe angle must be unpinned, rotated away from the leading edge **BLUE SEGMENT EVERY** of the wing 5 degrees and re-pinned, allowing the new angle to be secured and tightened. The in-flight OAA calibration **5 TO 6 SECONDS UNTIL** procedure must be repeated. ACCEPTABLE VALUE IS ENTERED. "Invalid set-point" Pressure - Too High **ERROR: FLASHES 3X THEN GOES** If the pilot could not get a valid OAA value entered during the CAL button push and the display flashed a BLUE and **DARK AND CONTINUES TO FLASH** YELLOW segments. The aircraft must be landed, and the AOA probe angle must be unpinned, rotated toward the leading **BLUE SEGMENT EVERY** edge of the wing 5 degrees, re-pinned and tightened. The OAA in-flight calibration procedure must be repeated. **5 TO 6 SECONDS UNTIL ACCEPTABLE VALUE IS ENTERED.**



Cruise (Va)				
Pressure - Too Low	"Invalid set-point"	ERROR: FLASHES 3X THEN GOES		
If the pilot could not get a valid Cruise value entered and the display flashed the GREEN segment, the angle of attack was too high. Fly at weight corrected, Va speed and try the calibration again.		DARK AND CONTINUES TO FLASH GREEN BAR EVERY 5 TO 6 SECONDS UNTIL ACCEPTABLE VALUE IS ENTERED.		