Alpha Systems Eagle 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 fai If the setting is successful, the failure	anical or electrical problems, the air hoses should be disconnected from the IF module 1.5 in the operations manual. Iure is electrical and the IM should be returned for an authorized repair. It is mechanical, such as a blockage in the air hoses or AOA probe, etc. Identify the pos 1-3 of section 1.5 in the operations manual.	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 DOUGHNUT 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 DOUGHNUT 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 (weight adjusted pattern speed)		
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		DARK AND CONTINUES TO FLASH
too high. Fly at weight adjusted pattern speed and try the calibration again.		GREEN BAR EVERY 5 TO 6 SECONDS
		UNTIL ACCEPTABLE VALUE IS ENTERED.