Alpha Systems Merlin AOA Calibration Error Definitions

(1	
	_	

FAILURE	AUDIO RESPONSE	DISPLAY RESPONSE
Ground, Zero Calibration - on gro		
Pressure - Too High	"Invalid set-point"	
(IM) and repeat steps 1-3 of section 3 If the condition persists, then the fail If the setting is successful, the failure	inical or electrical problems, the air hoses should be disconnected from the IF module I.5 in the operations manual. ure is electrical and the IM should be returned for an authorized repair. is mechanical, such as a blockage in the air hoses or AOA probe, etc. Identify the os 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 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 GOE
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 FLAS
too high. Fly at weight corrected, Va speed and try the calibration again.		GREEN BAR EVERY 5 TO 6 SECOND
		UNTIL ACCEPTABLE VALUE IS ENTERED