COMPONENT MAINTENANCE MANUAL with IPL

TDR-94, PART NO 622-9352

STEP	PROCEDURE	DESIRED RESULTS
1.21	Verify that no fault codes are indicated on the monitor in either the "F3" CSDB output word or in the "350" ARINC-429 Maintenance Data Output word.	
1.22	If the UUT fails the Mode-S_Only reply rate as specified in Table 1001/Table 34-50-96-99A-009-A01 step 1.1.A at ambient or during temperature test, first verify the DPSK alignment. If alignment is satisfactory but UUT still fails Table 1001/Table 34-50-96-99A-009-A01 step 1.1.A, replace A7R430 with another value from the test select listing as shown in the associated parts list. Reverify DPSK alignment and complete temperature testing as required.	
1.23	After alignment is complete, remove all power from test equipment and reassemble unit under test.	
2.0	Receiver IF/LVPS Assembly, Alignment for CPN 687-0727-005 or subsequent.	
2.1	Monitor the 5 VDC output (J7-26) with a DVM while adjusting A7R507 on the IF/Power Supply board.	5 VDC output adjusted to 4.99 to 5.01 Vdc.
2.2	Monitor J7-33 on the Video Processor board with an oscilloscope.	
2.3	Set the MODE-S Test Set to generate ATCRBS MODE-C interrogations and apply to the bottom antenna connector. Set the interrogation rate to 450/second.	
2.4	a. Set the MODE-S Test Set signal strength for -79 dBm.	
	 Adjust A7R196 to the fully clock-wise position. Monitor the Bottom Video signal at pin 33 of A6P22 with an oscilloscope while adjusting A7R95. 	An observed video level of 0.7 volts Peak.
	NOTE: The oscilloscope must be set to the averaging mode to properly measure the video pulse at the low signal levels required.	
	c. Set the MODE-S test set signal strength to -77 dBm.	
	 d. Monitor the Bottom Video signal at pin 33 of A6P22 while adjusting A7R196. 	An observed video level of 0.7 volts Peak.
	 Verify that the reply rate is between 90% and 100%. If necessary, readjust A7R195 to the get the desired result. 	A reply rate between 90% and 100%.
2.5	a. Set the MODE-S Test Set signal strength for -31 dBm.	
	 Monitor the P1 pulse at J7-33 with a DVM whiling adjusting A7R179 on the IF-Receiver. 	The P1 pulse adjusted to 4.99 to 5.01 V dc.

Alignment Procedure Cont. Table 1002/Table 34-50-96-99A-010-A01

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Roderick W. Simpson, Rod Simpson

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