

CHAP	2	SP 110		SERVICING PROCEDURES				AP 101B-1000-5A3E (Section 1 (1st Edition))				TIME	ACT		
TRADE		FLT SYST		LIGHTNING											
SHEET	1	OF	6	SHEET/S		3		5	6	AL NO	12	DATE		EST	
TITLE	Navigational Display System - ILS Mode Functional Test.								SERVICING RECORD - RAF F.2988B AC NO DATE						
Safety and Servicing Notes are to be complied with throughout the work detailed on this Card.									(1)	(2)	(3)	(4)	(5)	ASSOCIATED PROCEDURE CARDS	
Special Tools and Equipment									MAN HOURS	TRADESMEN INIT	BRIEF DETAILS OF OR SUSPECTED DEFECT	F. 720B NO	N.C.O. INITIALS		
Nil.														ASSOCIATED TRADES	AC
FLT SYST															
1. <u>Preparation</u>														SP NO	110
1.1 External power supplies. (A.c and d.c.). Ensure switched on.															
AIR COMMS															
2. <u>Preparation</u>															
2.1 Localizer and glidepath receiver pre-set control seals. Ensure intact.															
2.2 Test set Type 391.															
(a) Test set. Position as near to Localizer aerals as possible.															
(b) Power connector. Connect to 28V d.c. supply.															
(c) Localizer aerial. Extend.															
(d) On/Off switch Set to 'ON'.															
(e) Supply/Operate. switch. Depress and ensure meter indicates in Red sector, then release.															
2.3 Headset. Connect to Pilot's mic/tel socket.															
2.4 ILS master switch. Set to 'ON'.															
2.5 Control unit Type 705. Select channel appropriate to working frequency to test set.															
2.6 ILS/VP switch. Set to 'ILS'.															
SMS/80/453/8									Continued						

CHAP	2	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	110	CONTINUED	LIGHTNING		Section 1 (1st Edition)	
SHEET	2	AL 12			AC NO DATE	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD	
					(1)	(2)
					(3)	(4)
					(5)	
<p align="center">FLT SYST</p> <p>3. <u>Preparation</u></p> <p>3.1 MRG On/Off) switch.) Set to 'ON'.</p> <p>3.2 Instrument) master switch)</p> <p>4. <u>Test</u></p> <p>4.1 Nav display unit.</p> <p>(a) Mode selector Set to 'COMP'.</p> <p>(b) Compass card. Ensure motors to random heading in 2 to 3 seconds</p> <p>(c) Comp/DG Set to 'COMPASS'.</p> <p>selector.</p> <p>(d) Annunciator Ensure remains central for 2 to 3 seconds and then either oscillates slowly or indicates dot or cross.</p> <p>flag.</p> <p>(e) Compass card. Synchronize and check heading approximately to that of E2B compass.</p> <p>(f) Mode selector Set to 'ILS'.</p> <p>(g) GP bar. Check driven to zero datum in less than 10 seconds.</p> <p>(h) Roller Check driven to localizer zero datum in less than 10 seconds.</p> <p>blind.</p> <p>(j) Heading knob. Pull out and turn.</p> <p>(k) Selected Ensure no movement occurs heading pointer.</p> <p>(l) Localizer. Ensure can be set to any desired heading.</p> <p>(m) Localizer Set to lubber mark.</p> <p>datum.</p>						
<p align="center">AIR COMMS</p> <p>5. <u>Test</u></p> <p>5.1 Test set.</p> <p>(a) Function Set to 'LOCAL'.</p> <p>switch.</p> <p>(b) Tuning switch. Set to 'XTAL'.</p> <p>(c) Deflection Adjust to set meter to '0'.</p> <p>control.</p>						
SMS/80/453/8A					Continued	

SMS 17A

[illegible]

CHAP	2	NAV INST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	110	CONTINUED			AC NO DATE				
SHEET	4								
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD				
					(1)	(2)	(3)	(4)	(5)
AIR COMMS									
11. <u>Test</u>									
11.1 Test set.									
(a) Function switch. Set to 'LOC AUDIO'.									
(b) Freq Mod switch. Set to '1300' and ensure 1300 Hz note is audible in headset.									
(c) Set. Position as close to aircraft GP aerial as possible.									
(d) GP aerial. Extend.									
(e) Function switch. Set to 'GLIDE PATH'.									
(f) Tuning switch. Set to 'XTAL'.									
(g) Deflection control. Adjust to set meter to '0'.									
NAV INSTRUMENTS									
12. <u>Test</u>									
12.1 Nav display unit.									
(a) GP warning flag. Ensure clear.									
(b) GP bar. Ensure coincident with central index mark.									
AIR COMMS									
13. <u>Test</u>									
13.1 Test set deflection control. Adjust to set meter to maximum left.									
NAV INSTRUMENTS									
14. <u>Test</u>									
14.1 Nav display unit GP bar. Check moves to upper limit (Approximately 0.55 in. from datum).									
AIR COMMS									
15. <u>Test</u>									
15.1 Test set deflection control. Adjust to set meter to maximum right.									
RM 52010 / 106A					Continued				

SMS 17A

CHAP	2	NAV INST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	110	CONTINUED							
SHEET	5				AC NO DATE				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD				
					(1)	(2)	(3)	(4)	(5)
NAV INSTRUMENTS									
16. <u>Test</u>									
16.1 Nav display unit GP bar. Check moves to lower limit. (Approximately 0.55 in. from datum).									
AIR COMMS									
17. <u>Test</u>									
17.1 Test set.									
(a) Set. Position as close to marker aerial as possible Extend.									
(b) Marker aerial.									
(c) Function switch. Set to 'MARKER'.									
(d) Tuning switch. Set to 'XTAL'.									
(e) Freq Mod switch. Set to '1300' and ensure 1300 Hz note is audible in headset.									
NAV INSTRUMENTS									
18. <u>Test</u>									
18.1 Nav display unit marker lamp. Ensure lit.									
19. <u>General</u>									
19.1 Nav display unit mode selector. Set to 'COMP'.									
19.2 Instrument master switch.) Set to 'OFF'.									
19.3 MRG On/Off switch.)									
AIR COMMS									
20. <u>General</u>									
20.1 Test set.									
(a) On/Off switch. Set to 'OFF'.									
(b) Power connector. Disconnect 28V d.c supply.									
20.2 ILS master switch. Set to 'OFF'.									
20.3 Headset. (i) Disconnect.									
(ii) Remove.									
RM 52010 / 107					Continued				

This file was downloaded
from the RTFM Library.
Link: www.scottbouch.com/rtfm

Please see site for usage terms,
and more aircraft documents.

