

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			
<p style="text-align: center;">FLT SYST</p> <p>1. <u>Preparation</u></p> <p>1.1 External power supplies. (A.c and d.c.). Ensure switched on.</p>														
<p style="text-align: center;">AIR COMMS</p> <p>2. <u>Preparation</u></p> <p>2.1 Localizer and glidepath receiver pre-set control seals. Ensure intact.</p> <p>2.2 Test set Type 391.</p> <p>(a) Test set. Position as near to Localizer aerials as possible.</p> <p>(b) Power connector. Connect to 28V d.c. supply.</p> <p>(c) Localizer aerial. Extend.</p> <p>(d) On/Off switch Set to 'ON'.</p> <p>(e) Supply/Operate. Depress and ensure meter indicates in Red sector, then release.</p> <p>2.3 Headset. Connect to Pilot's mic/tel socket.</p> <p>2.4 ILS master switch. Set to 'ON'.</p> <p>2.5 Control unit Type 705. Select channel appropriate to working frequency to test set.</p> <p>2.6 ILS/VP switch. Set to 'ILS'.</p>														
SMS/80/453/8						Continued					SP NO	110	AC	

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SP NO	110	CONTINUED		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)
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FLT SYST

3. Preparation

- 3.1 MRG On/Off switch.) Set to 'ON'.
- 3.2 Instrument master switch)

4. Test

- 4.1 Nav display unit.
 - (a) Mode selector Set to 'COMP'.
 - (b) Compass card. Ensure motors to random heading in 2 to 3 seconds
 - (c) Comp/DG selector. Set to 'COMPASS'.
 - (d) Annunciator flag. Ensure remains central for 2 to 3 seconds and then either oscillates slowly or indicates dot or cross.
 - (e) Compass card. Synchronize and check heading approximately to that of E2B compass.
 - (f) Mode selector Set to 'ILS'.
 - (g) GP bar. Check driven to zero datum in less than 10 seconds.
 - (h) Roller blind. Check driven to localizer zero datum in less than 10 seconds.
 - (j) Heading knob. Pull out and turn.
 - (k) Selected heading pointer. Ensure no movement occurs
 - (l) Localizer. Ensure can be set to any desired heading.
 - (m) Localizer datum. Set to lubber mark.

AIR COMMS

5. Test

- 5.1 Test set.
 - (a) Function switch. Set to 'LOCAL'.
 - (b) Tuning switch. Set to 'XTAL'.
 - (c) Deflection control. Adjust to set meter to '0'.

SMS/80/453/8A

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SP NO	110	CONTINUED		AC NO DATE				
SHEET	3			SERVICING RECORD				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.				(1)	(2)	(3)	(4)	(5)
NAV INSTRUMENTS								
6.	<u>Test</u>							
6.1	Nav display unit.							
	(a)	Localizer warning flag.	Ensure clears.					
	(b)	Localizer beam bar.	Ensure takes up a position midway between lines of localizer datum.					
AIR COMMS								
7.	<u>Test</u>							
7.1	Test set deflection control.		Adjust to set meter to maximum left.					
NAV INSTRUMENTS								
8.	<u>Test</u>							
8.1	Nav display unit localizer beam bar.		Check moves left of datum by approximately 3/4 in.					
AIR COMMS								
9.	<u>Test</u>							
9.1	Test set deflection control.		Adjust to set meter to maximum right.					
NAV INSTRUMENTS								
10.	<u>Test</u>							
10.1	Nav display unit localizer beam bar.		Check moves right of datum by approximately 3/4 in.					
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SP NO	110	CONTINUED	LIGHTNING		Section 1 (1st Edition)		
SHEET	4				AC NO DATE		
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD		
					(1)	(2)	(3)
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.				
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SP NO	110	CONTINUED	LIGHTNING		Section 1 (1st Edition)		
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)
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					
	(b) Marker aerial.	Extend.					
	(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	I LS master switch.	Set to 'OFF'.					
20.3	Headset.	(i) Disconnect. (ii) Remove.					
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CHAP	2	NAV INST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	110	CONTINUED	LIGHTNING		Section 1 (1st Edition)	
SHEET	6				AC NO DATE	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD	
					(1)	(2)
NAV INSTRUMENTS						
21. <u>General</u>						
2.1 External power (i) Ensure switched off						
supplies. (A.c. (ii) Disconnect.						
and d.c.). (iii) Remove.						
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