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HUN/5A3B/2.274

AIR RADAR SP 258 (2)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)	
TACAN INSTALLATION				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD				Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR									
2. <u>Power Output</u>									
2.1 PT 10166.									
(a) Meter switch. Set to 'TX POWER'.									
(b) Attenuator control. Set to Red/Green junction.									
(c) Set Zero control. Adjust for meter indication of zero.									
2.2 Control unit Function switch. Set to 'TR'.									
2.3 PT 10166 Attenuator control.									
(i) Adjust for meter indication of 30 Micro A.									
(ii) Ensure Green is indicated under cursor.									
2.4 Coupling unit. Ensure Distance and Bearing dials are rotating smoothly.									
2.5 Indicator type 9547.) Ensure Bearing needle rotates smoothly,									
(If fitted).) Distance counters rotate in direction									
2.6 Nav display unit.) of increasing distance and Yellow bar is									
(If fitted).) visible.									
2.7 Control unit Function switch. Set to 'REC'.									
BLOCK 2 AIR RADAR									
3. <u>Identity Tone</u>									
3.1 PT 10166.									
(a) Attenuator control. Set to junction of Red/Green.									
(b) Set Zero control. Adjust for meter indication of zero.									
(c) Meter switch. Set to 'RX SENS'.									
(d) Set RF Level control. Adjust for meter indication of 30 micro A.									
SMS/ HCA				Continued					

AIR RADAR SP 258 (3)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)			
TACAN INSTALLATION						TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD						Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR 3. <u>Identity Tone (Contd)</u> 3.1 PT 10166. (Contd) NB: During Sub-items 3.1 (d) to 5 inclusive meter indication of 30 micro A is to remain constant. (e) Range selector. Set to '5'. (f) Bearing selector. Set to '140'. 3.2 Headset. (i) Connect to Pilot's mic/tel socket. (ii) Ensure identity tone is audible. 3.3 Control unit Volume control. (i) Operate. (ii) Set to suitable level. 3.4 Headset. Remove from pilot's mic/tel socket.											
BLOCK 2 AIR RADAR 4. <u>Receiver Sensitivity, Bearing and Distance</u> 4.1 Indicator Type 9547.) (If fitted).) 4.2 Nav display unit.) Check Bearing needle and Bearing dials (If fitted).) indicate between 135 and 145 degrees. 4.3 Coupling unit.) 4.4 PT 10166 Bearing selector. Set to 323.											
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HUN/5A3B/2.277

AIR RADAR
SP 258 (6)

SERVICING PROCEDURES
FUNCTIONAL CHECKS AND TESTS
HUNTER ALL MARKS

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Sect 2
Chap 7

SERVICING RECORD

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TACAN INSTALLATION

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		Code	TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
			MAN HRS 1	INITS & TDM 2		MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR							
5. <u>Lower Aerial</u> (Contd)							
5.5 Indicator unit type 9547. (If fitted).) (i) Check Bearing needle locked at between 137 and 143 degrees.						
5.6 Nav display unit. (If fitted).) (ii) Check Distance counters locked at between 4.75 and 5.25 nm.						
5.7 Coupling unit.)						
5.8 Control unit Function switch.	Set to 'REC'.						
BLOCK 2 AIR RADAR							
6. <u>Upper Aerial</u>							
6.1 Aerial switch. (If fitted).	Set to 'UPPER'.						
6.2 Test kit aerial Type 6996.	(i) Fit to lower aerial using spider provided.						
	(ii) Using appropriate connector and support clip, connect to PT 10166 RF socket.						
	(iii) Repeat Sub-items 5.3 to 5.8 inclusive.						
BLOCK 3 AIR RADAR							
7. <u>General</u>							
7.1 Control unit On/Off switch. (If fitted).)						
7.2 Installation switches.) Set to 'OFF'.						
7.3 PT 10166 On/Off switches.)						

SMS/

Continued

AIR RADAR SP 258 (7)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)	
TACAN INSTALLATION				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD				Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR 7. <u>General</u> (Contd). 7.4 Test kit aerial Type 6996.									
(i) Disconnect from PT 10166. (ii) Remove from upper aerial.									
BLOCK 2 AIR RADAR NB: Items 8 to 12 inclusive are applicable only to XF 967. 8. <u>Preparation</u> 8.1 RT 636 Antenna socket.									
Disconnect aerial.									
8.2 Radio TS (Air-to-Air). (a) RF Direct socket.									
Connect to RT 636 antenna socket using Attenuator connector.									
(b) RF Radiate socket.									
Fit Dummy Load cap.									
(c) Power connector.									
Connect to 115V a.c.									
(d) On/Off switch.									
Set to 'ON' and allow a 5 minute warm up period.									
(e) Function switch.									
Set to 'SET ZERO'.									
(f) Set Zero control.									
Adjust for zero meter indication.									
(g) Function switch.									
(i) Set to 'SYSTEM TEST'.									
(ii) Ensure Reject (Red) lamp lights.									
Adjust for meter indication of 30 micro A.									
(h) Set RF level control.									
Set to '100'.									
(j) Range switch.									

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AIR RADAR SP 258 (9)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)	
TACAN INSTALLATION				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD				Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR 9. <u>Range Checks</u> (Contd) 9.12 Air-to-Air TS. (a) Normal/Decode switch. Hold to 'DECODE'. (b) Green lamp. Ensure extinguished after few seconds. (c) Red lamp. Ensure lit.									
BLOCK 2 AIR RADAR 10. <u>TR Transponder</u> 10.1 Air-to-Air TS. (a) Function switch. Set to 'INTERROGATE'. (b) Green lamp. Ensure lit. (c) Red lamp. Ensure extinguished.									
BLOCK 3 AIR RADAR 11. <u>TR Interrogation Check</u> 11.1 Air-to-Air TS Function switch. Set to 'TRANSPOND'. 11.2 Indicator type 9547.) (If fitted).) 11.3 Nav display unit.) Check Distance indication is between (If fitted).) 199.75 and 0.25 nm. 11.4 Range indicator.) (If fitted).) 11.5 BDHI 1D 1103/ARN.)									

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AIR RADAR
SP 258A (2)

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TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		Code	TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
			MAN HRS 1	INITS & TDM 2		MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR							
3. Preparation							
3.1 Headset. Connect to pilots MCC/TEL socket.							
3.2 Control Unit 9273A.							
(a) Function switch. Set to 'A/G'.							
(b) Channel selector. Set to '39'.							
(c) On/Off switch. Set to 'ON' and allow 5 minutes to warm.							
(d) Panel lamps. Ensure illuminated.							
NB: Sub-items 3.3 to 3.4 apply only to IFIS fit aircraft.							
3.3 Pilots Nav display mode selector. Set to 'DL'.							
3.4 Offsets control unit. Set to '000' miles and '000' degrees.							
BLOCK 2 AIR RADAR							
4. Power Output							
4.1 TP 10166A.							
(a) Meter switch. Set to 'TX POWER'.							
(b) Meter. Ensure reading Zero.							
(c) Attenuator control. (i) Adjust until meter indication is 30 micro amps.							
(ii) Ensure green appears under cursor.							
4.2 Indicator type 9547.) Ensure bearing needle and distance							
(If fitted).) counters rotate freely and black/yellow							
4.3 Nav display unit.) bar is visible.							
(If fitted).)							

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AIR RADAR SP 258A (4)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)			
TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)						TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD						Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR 5. <u>Bearing and Range</u> (Contd) 5.6 TP 10166A. (a) Bearing selector switch. Set to '321'. (b) Range selector switch. Set to '105'. 5.7 Tacan display. Ensure: (i) Lock re-occurs after memory time and bearing indication is between 319 and 323 degrees. (ii) Lock re-occurs after memory time and range indication is between 102 and 108 miles and 'OFF' bar disappears.											
BLOCK 2 AIR RADAR NB: Sub-item 6. is applicable only to IFIS fit aircraft. 6. <u>Offsets</u> 6.1 Pilots nav display mode selector. Set to 'TAC'. 6.2 Pilots nav display. Ensure: (i) Bearing indications remain between 319 and 323 degrees. (ii) Range indications remain between 102 and 108 miles. 6.3 Offset control unit. Set to: (i) '105' miles. (ii) '233' degrees.											
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AIR RADAR
SP 258A (5)

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TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
		MAN HRS 1	INITS & TDM 2		MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR						
6. <u>Offsets</u> (Contd)						
6.4 Pilots nav display. Ensure:						
(i) Range indicates between 130 and 140 miles.						
(ii) Bearing indicates between 269 and 273 degrees.						
6.5 TP 10166A.						
(a) Range selector switch. Set to '5'.						
(b) Bearing selector. Set to '140'.						
6.6 Offsets control unit. Set to:						
(i) '22' miles.						
(ii) '080' degrees.						
6.7 Pilots nav display. Ensure:						
(i) Range indicates between 20 and 30 miles.						
(ii) Bearing indicates between 088 and 092 degrees.						
6.8 Offsets control unit. Set to:						
(i) '000' miles.						
(ii) '000' degrees.						
6.9 Pilots nav display mode selector. Set to 'DL'.						

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AIR RADAR SP 258A (6)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)			
TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)						TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD						Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR											
7. <u>Identity Tone</u>											
7.1 Control unit 9273A volume control. Set fully clockwise.											
7.2 Headset. Ensure tone audible.											
7.3 Control unit 9273A.											
(a) Volume control. (i) Operate.											
(b) On/Off switch. (ii) Set for suitable audio level. Set to 'OFF'.											
7.4 TP 10166A.											
(a) On/Off switch. Set to 'OFF'.											
(b) Attenuator cable. Disconnect from RF socket and TR aerial socket.											
7.5 TR aerial connector. Reconnect.											
BLOCK 2 AIR RADAR											
8. <u>Preparation (Aerial checks)</u>											
8.1 TP 10166A.											
(a) Complete unit. Remove to a point on a line at right angles to aircraft axis at a distance of between 25 and 30 feet from aerial. Fit radiating element.											
(b) RF element. Set to 'RADIATE'.											
(c) Direct/Radiate switch. Set to 'ON and allow 5 minutes to warm.											
(d) On/Off switch. Set to 'TX POWER'.											
(e) Function switch. Ensure indicating Zero.											
(f) Meter. Set to 'RX SENS'.											
(g) Function switch.											
SMS/ <i>WIP</i>						Continued					

AIR RADAR
SP 258A (7)

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TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
		MAN HRS 1	INITS & TDM 2		MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR						
8. <u>Preparation</u> (Aerial checks) (Contd)						
8.1 TP 10166A (Contd). (h) Set RF level control. Set to 'RX SENS'. (j) Bearing selector. Set to '140'. (k) Range selector. Set to '5'.						
BLOCK 2 AIR RADAR						
NB: During Item 9 TP 10166A meter indication of 30 micro amp is to remain constant.						
9. <u>Bearing Range</u>						
9.1 Control unit 9273A. (a) On/Off switch. Set to 'ON' and allow 5 minutes to warm. (b) Function switch. Ensure set to 'A/G'. (c) Channel selector. Ensure set to '39'.						
9.2 Tacan display. Ensure bearing needle locks first time round at between 138 and 142 degrees and range counters lock first time round at between 4 and 5 miles.						
9.3 TP 10166A. (a) Bearing selector. Set to '321'. (b) Range selector. Set to '105'.						
9.4 Tacan display. Ensure bearing needle locks first time round at between 319 and 323 degrees and range counters lock first time round at between 102 and 108 miles.						

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Continued

AIR RADAR SP 258A (8)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:				RAF Form 2988B (Revised Jan 85)	
TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)						TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD						Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR											
9. <u>Bearing Range</u> (Contd)											
9.5 Control unit 9273A On/Off switch. Set to 'OFF'.											
9.6 TP 10166A. (a) Power switch. Set to 'OFF'. (b) Power cable. Disconnect.											
BLOCK 2 AIR RADAR											
NB: Items 10 to 13 inclusive are applicable only to aircraft with Air to Air capability.											
10. <u>Preparation - Air to Air</u>											
10.1 RT 636 antenna. Disconnect.											
10.2 Radio test set. (Air to Air). (a) RF DIRECT socket. Connect to TR 636 aerial socket using attenuator connector. (b) RF RADIATE socket. Fit dummy lead cap. (c) Power cable. Connect to 115V a.c. (d) Power switch. Set to 'ON' and allow 5 minutes to warm. (e) Function switch. Set to 'SET ZERO'. (f) Set zero control. Adjust for a meter indication of zero. (g) Function switch. (i) Set to 'SYSTEM TEST'. (h) Set RF level. (ii) Ensure reject (red) lamp lit. (j) Range switch. Adjust for a meter indication of 30 micro amps. Set to '100'.											
SMS/ 15-1						Continued					

AIR RADAR
SP 258A (9)

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TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
		MAN HRS 1	INITS & TDM 2		MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR						
11. Range Checks						
11.1 Control unit 9273A. (a) On/Off switch. Set to 'ON' and allow 5 minutes warm up. (b) Function switch. Set to 'A/A'. (c) Channel selector. Ensure set to '39'.						
11.2 Air to Air test set. (a) Reject (red) lamp. Ensure extinguished. (b) Accept (green) lamp. Ensure lit.						
11.3 Tacan display. Ensure range indication is between 97 and 102 miles.						
11.4 Air to Air test set range switch. Set to '0'.						
11.5 Tacan display. Ensure range indication is between 199 and 001 miles.						
11.6 Air to Air test set. (a) NORMAL/DECODE switch. Hold to 'DECODE'. (b) Accept lamp. Ensure extinguished after a few seconds. (c) Reject lamp. Ensure lit. (d) NORMAL/DECODE switch. Release.						

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AIR RADAR SP 259 (1) (1 to 2)				SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS				AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:				RAF Form 2988B (Revised Jan 85)	
IFF/SSR INSTALLATION - (ABRIDGED TEST)										TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD										MAN HRS 1	INITS & TDM 2			MAN HRS 4	INITS & TDM 5
TRADE AR	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS						Code					
Special Tools and Equipment:															
Nil.															
NB: SP 208 (ELECTRICAL) is to be carried out if the output of the Encoding Altimeter Mk 30 Series is suspect or the system fails any of the checks detailed in this SP.															
BLOCK 1 AIR RADAR															
1. Preparation															
1.1 CU 16929 Function switch. Ensure set to 'OFF'.															
1.2 Installation power supplies. Switch on.															
1.3 Secondary warning panel. Ensure IFF warning lamp lit.															
BLOCK 2 AIR RADAR															
2. Built in Self Test															
2.1 CU 16929.															
(a) Mode 1 switch. Set to 'ON' (Up position).															
(b) Mode 2, C and D switches. Set to 'OFF' (Down position).															
(c) Mode 1 and 3 Code switches. Set to '0000'.															
(d) Civil/Mil switches. Set to 'MIL'.															
(e) Function switch. Set to 'S.BY'.															
(f) Self Test button. Depress.															
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IFF/SSR INSTALLATION - (ABRIDGED TEST)				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD				Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR									
2. Built in Self Test (Contd)									
2.2 Secondary warning panel. Ensure IFF warning lamp flashes or remains lit.									
2.3 CU 16929. (a) Self Test button. Release. (b) Function switch. Set to 'NORM' and allow a one minute warm up period. (c) Self Test button. (i) Depress. (ii) Ensure Green confidence lamp lights.									
2.4 Secondary warning panel. Ensure IFF warning light extinguishes.									
2.5 CU 16929. (a) Self Test button. Release. (b) Function switch. Set to 'EMGY'. (c) Self Test button. (i) Depress and ensure Green confidence lamp lights. (ii) Release. (d) Function switch. Set to 'OFF'.									
2.6 Secondary warning panel. Ensure IFF warning lamp lights.									
BLOCK 2 AIR RADAR									
3. General									
3.1 Installation power supplies. Switch 'OFF'.									

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AIR RADAR SP 260 (1) (1 to 10)				SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS				AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:				RAF Form 2988B (Revised Jan 85)	
IFF/SSR INSTALLATION - FULL TEST								TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR			
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD								MAN HRS 1	INITS & TDM 2	3		MAN HRS 4	INITS & TDM 5		
TRADE AR	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS				Code							
Special Tools and Equipment:															
105-5895-99-195-0883 Test Set CRM 544 105-5895-99-107-9851 Simulator Unit															
NB: SP 208 (ELECTRICAL) is to be carried out if the output of the Encoding Altimeter Mk 30 Series is suspect or the system fails any of the checks detailed in this SP.															
BLOCK 1 AIR RADAR															
1. <u>Preparation</u>															
1.1 TR 16928.								(i) Ensure pressurised to 4 lbf/in2. (ii) Disconnect aircraft aerial connector at TR.							
1.2 Test Set CRM 544.								Connect to 28V d.c. supply.							
1.3 25 ft RF cable and both attenuators 17 dbs, 39 dbs PLUS 4 dbs from cable. (60 dbs).								Connect between TR aerial socket and CRM 544 O/P - socket.							
NB: Sub-items 1.4 and 1.5 apply to aircraft fitted with height Encoding Data supplied by the Servo Encoding Altimeter.															
1.4 Cable "SSR 2F".								Disconnect 19 way connector from upper socket mounted on bracket near top of Frame 19.							
1.5 Simulator unit.								Connect to floating end of cable "SSR 2F".							
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SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD						Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR											
2. <u>Built in Tests</u>											
2.1 Aircraft power supplies.											
(i) Connect. (ii) Set to 'ON'.											
2.2 IFF Failure warning light.											
Ensure illuminates.											
2.3 CU 16929.											
(i) Front panel and digital code lamps ensure lit. (ii) Mode 1 switch set to 'ON'. (iii) Modes 2, C and D and 3 A/B switches set to 'OFF'.											
2.4 T/R 16928. Mode 2 Code.											
Note.											
2.5 T/R 16928 and CU 16929.											
Modes 1, 2 and 3 A/B switches set to '0000'.											
2.6 CU 16929.											
(i) Civil/Mil switch set to 'MIL'. (ii) Function switch set to 'S.BY' and ensure warning lamp extinguishes.											
2.7 CU 16929. Test Button.											
(i) Depress and ensure failure warning lamp flashes. (ii) Release and set function switch to 'NORM' allowing one minute warm up. (iii) Depress and ensure failure warning light extinguishes and green light illuminates. (iv) Release.											
SMS/ VIDA						Continued					

AIR RADAR SP 260 (3)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)	
IFF/SSR INSTALLATION - FULL TEST				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD				Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR									
2. <u>Built in Tests (Contd)</u>									
2.8 CRM 544 Self Test. <div style="margin-left: 100px;"> (i) Attenuator (If fitted) - set to '0'. (ii) Power switch - set to 'ON'; and ensure power indicator lamp lights. (iii) Function switch - set to 'SELF TEST' and ensure meter indicates 'NOM' on Dbs scale. </div>									
BLOCK 2 AIR RADAR									
3. <u>Tabulated Serviceability Tests</u>									
3.1 IFF/SSR Installation. <div style="margin-left: 100px;"> Carry out serviceability tests iaw with Table 1. </div>									
SMS/ 173				Continued					

IFF/SSR INSTALLATION - FULL TEST

TEST	CU 16929	CRM 544 SWITCHES	METER
1	Modes 1, 2 C and D switches to 'ON'. 3 A/B switch to 3A. Modes 1, 2 and 3 Code switches to '7777'. Height simulator switches to '7777' Civil/Mil switch to 'MIL'.	Code switches set to '7777'. Function switch to Freq/Power Mode switch to Mode 1.	GREEN
2	As Test 1.	Switch to Mode 2.	GREEN
3	As Test 1.	Switch Mode 3A	GREEN
4	As Test 1.	Switch to Mode C.	GREEN
5	As Test 1.	Switch to Mode D.	GREEN
6	Function switch to 'LOW SENS'.	Switch to Mode 1.	RED
7	Mode 1 Code switches to '0000'. Function switch to 'NORM'.	Code switches to '0000'. Function switch to 'REPLY'.	GREEN
8	Operate Mode 1 Code switches in sequence as follows. 1000 2000 3000 4000 5000 6000 7000 0100 0200 0300 0400 0500 0600 0700 0010 0020 0030 0040 0050 0060 0070 0001 0002 0003 0004 0005 0006 0007 0000	Operate Code switches in sequence as follows Ensure meter reads green at each coincident setting. 1000 2000 3000 4000 5000 6000 7000 0100 0200 0300 0400 0500 0600 0700 0010 0020 0030 0040 0050 0060 0070 0001 0002 0003 0004 0005 0006 0007 0000	GREEN

TABLE 1

SMS/ VLEH

Continued

IFF/SSR INSTALLATION - FULL TEST

TEST	CU 16929	CRM 544 SWITCHES	METER
9	Operate Mode 2 switches on T/R as in Test 8.	Switch to Mode 2. Operate code switches as in Test 8.	GREEN
10	Operate mode 3 Code switches as in Test 8.	Switch to Mode 3A operate code switches as in Test 8.	GREEN
NB:	Test 11 is applicable only to Aircraft with Height Encoding facilities.		
11	Operate Mode C simulator code switch in sequence as follows. 1000 2000 3000 4000 5000 6000 7000 0100 0200 0300 0400 0500 0600 0700 0010 0020 0030 0040 0050 0060 0070 0004 0000.	Switch to Mode C operate Code switches in sequence as follows ensuring meter indicates green at coincident settings. 1000 2000 3000 4000 5000 6000 7000 0100 0200 0300 0400 0500 0600 0700 0010 0020 0030 0040 0050 0060 0070 0004 0000.	GREEN
12	Mode 1 Code switches to '7777'.	Switch to Mode 1, Code switches to 7777, function switch to 'NO REPLY'.	RED
13	As Test 12.	Function switch to 'REPLY RATE'.	BETWEEN 10%-90% DEFLECTION
14	As Test 12.	Function switch to 'IDENT'.	RED
15	Press and release I/P switch.	As Test 14.	GREEN for approx 20 secs.
16	Mode 2 Code switches '7777'.	Switch to Mode 2.	RED

TABLE 1 (Contd)

IFF/SSR INSTALLATION - FULL TEST

TEST	CU 16929	CRM 544 SWITCHES	METER
17	Press and release I/P switch.	As Test 16.	GREEN for approx 20 secs.
18	Mode 3 Code switches to '7777'.	Switch to Mode 3A.	RED
19	Press and release I/P.	As Test 18.	GREEN for approx 20 secs.
20	Mode 3 A/B switch to B.	Switch to Mode B.	RED
21	Press and release I/P.	As Test 20.	GREEN for approx 20 secs.
22	Modes 2, C, D and 3 A/B switches to 0077 Mode 3 switches to 0066 Mode 2 switches to 0055.	Switch to Mode 1. Code switches to 0077. Function switch to 'EMGY'.	RED
23	Function switch to 'EMGY'.	As Test 22.	GREEN
24	Mode 1 switch to 'OFF'.	As Test 22.	GREEN
25	As Test 24.	Code switch to 0055. Switch to mode 2.	GREEN
26	Mode 1 switch to 'OFF'.	Code switches to 0066. Switch to Mode 3A.	GREEN
27	Mode 1 switch to 'OFF'.	Switch to Mode 3B.	GREEN
28	Civil/Mil switch to 'CIVIL'.	Code switches to '7700'.	GREEN

TABLE 1 (Contd)

SMS/ V.A.P.

Continued

[illegible]

IFF/SSR INSTALLATION - FULL TEST

TEST	CU 16929	CRM 544	METER
1	Function switch on 'S.BY'.	Function switch to Freq/Power.	
2	Mode 1 switch to 'ON'. Code switches to '7777'. Function switch to 'NORM'.	Switch Mode 1 Code switches to '7777'.	GREEN
3		Function switch to 'REPLY'.	GREEN

TABLE 2

AIR RADAR SP 260 (9)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7		SERVICING RECORD Aircraft Ser No: Date:		RAF Form 2988B (Revised Jan 85)			
IFF/SSR INSTALLATION - FULL TEST						TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD						Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1 AIR RADAR											
4. <u>Radiation Check (Contd)</u>											
4.7 Aircraft aerial test switch. Set to 'LOWER'.											
4.8 Repeat tests 1 to 3 of Table 2.											
4.9 Aircraft aerial test switch. Set to 'FLIGHT'.											
4.10 Test set. Position so one aerial is screened from radiating element.											
4.11 Meter. Check approx 50% deflection.											
BLOCK 2 AIR RADAR											
5. <u>Completion</u>											
5.1 CU 16929. <ul style="list-style-type: none"> (i) All mode switches to 'OFF'. (ii) Mode 1 and 3 Code switches to '0000'. (iii) Civil/Mil switch to 'MIL'. (iv) Function switch to 'OFF'. 											
5.2 TR 16928. Mode 2 Code switches re-set to appropriate aircraft code noted at Item 2.3.											
5.3 Aircraft power supplies. <ul style="list-style-type: none"> (i) Set to off. (ii) Disconnect. 											
5.4 Aircraft aerial test switch. Ensure set to 'FLIGHT' and replace guard.											
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