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AIR RADAR SP 258 (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)		
TACAN INSTALLATION		NB: This Procedure is applicable only to Mk 7, 7A and 8B Aircraft.			TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable 3		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:									
Test Kit Aerial Type 6996; Performance Tester Type 10166.									
BLOCK 1		AIR RADAR							
1. Preparation									
1.1 TR aerial connector.		Disconnect from TR.							
1.2 PT 10166 attenuator lead.		Connect between PT RF socket and TR aerial socket.							
1.3 PT 10166. (a) Power lead. (b) On/Off switch.		Connect to 115V a.c supply. Set to 'ON' and allow a 5 minute warm up period.							
1.4 Power supplies. (a) Installation switch. (b) 115V a.c. supply. (c) 28V d.c. supply.		Set to 'ON'. Check between 113 and 117 volts. Check between 27.5 and 28.5 volts.							
1.5 Control unit. (a) On/Off switch (If fitted). (b) Function switch. (c) Panel lamps. (d) Channel selector.		Set to 'ON'. Set to 'REC' and allow installation a 5 minute warm up period. Ensure lit. Set to 39.							
SMS/ <i>160</i>		Continued							

AIR RADAR SP 258 (2)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD		RAF Form 2988B (Revised Jan 85)		
TACAN INSTALLATION				Aircraft Ser No: Date:				
				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		
				Code	MAN HRS 1	INITS & TDM 2	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. (If fitted).) Ensure Bearing needle rotates smoothly,						
2.6	Nav display unit. (If fitted).) Distance counters rotate in direction of increasing distance and Yellow bar is 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.						

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

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED
ON THIS CARD

BLOCK 1

AIR RADAR

3. Identity Tone (Contd)

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. Receiver Sensitivity, Bearing and Distance

- | | |
|--|--|
| 4.1 Indicator Type 9547.
(If fitted). |) |
| 4.2 Nav display unit.
(If fitted). |) Check Bearing needle and Bearing dials indicate between 135 and 145 degrees. |
| 4.3 Coupling unit. |) |
| 4.4 PT 10166 Bearing selector. | Set to 323. |

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Continued

AIR RADAR
SP 258 (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

SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED
ON THIS CARD

BLOCK 1

AIR RADAR

4. Receiver Sensitivity, Bearing
and Distance (Contd)

- 4.5 Indicator Type 9547.) (i) Ensure lock breaks after Memory
(If fitted).) time.
4.6 Nav display unit.) (ii) Check lock re-occurs first time
(If fitted).) round at between 318 and 328.
4.7 Coupling unit.)

4.8 Control unit Function switch. Set to 'TR'.

4.9 PT 10166 Attenuator control. Set to Green '4'.

4.10 Indicator Type 9547.) (i) Ensure Distance counters and
(If fitted).) dials indicate between 4.75 and
4.11 Nav display unit.) 5.25 nm.
(If fitted).) (ii) Ensure Yellow bar has
4.12 Coupling unit.) disappeared.

4.13 PT 10166 Range selector. Set to 105.

4.14 Indicator Type 9547.) (i) Ensure lock breaks after Memory
(If fitted).) time.
4.15 Nav display unit.) (ii) Ensure Yellow bar reappears.
(If fitted).) (iii) Check lock re-occurs first time
4.16 Coupling unit.) round at between 102 and 108 nm.

4.17 Control unit Function switch. Set to 'REC'.

Code	TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5	

SMS/ 11.11

Continued

AIR RADAR SP 258 (5)	SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD				RAF Form 2988B (Revised Jan 85)					
			Aircraft Ser No: Date:				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
			Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5				
<u>TACAN INSTALLATION</u>												
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD												
BLOCK 1 AIR RADAR												
4.	<u>Receiver Sensitivity, Bearing and Distance (Contd)</u>											
4.18	PT 10166.	Disconnect from TR aerial socket.										
	(a) Attenuator connector.)										
	(b) Function switch.)										
	(c) On/Off switch. (If fitted).)										
	(d) Complete unit.	Reposition adjacent to lower aerial.										
BLOCK 2 AIR RADAR												
5.	<u>Lower Aerial</u>											
5.1	Aerial switch. (If fitted).	Set to 'LOWER'.										
5.2	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.										
5.3	PT 10166.	(i) Ensure controls are set as specified in Sub-item 3.1. (ii) Set On/Off switch to 'ON'. (iii) Ensure meter indicates 30 micro A.										
5.4	Control unit. (a) On/Off switch. (If fitted). (b) Function switch.	Set to 'ON'. Set to 'TR'.										
SMS/ <u>162</u>								Continued				

AIR RADAR SP 258 (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				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
				Code	MAN HRS 1	INITS 2	3	MAN HRS 4	INITS 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD									
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					
			RAF Form 2988B (Revised Jan 85)					
<u>TACAN INSTALLATION</u>		Aircraft Ser No: Date:		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable 3	SUPERVISOR	
		Code	MAN HRS 1	INITS & TDM 2	MAN HRS 4		INITS & TDM 5	
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD								
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.						
(h) Set RF level control.		Adjust for meter indication of 30 micro A.						
(j) Range switch.		Set to '100'.						
SMS/ 163						Continued		

AIR RADAR SP 258 (8)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS		AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD RAF Form 2988B (Revised Jan 85)						
<u>TACAN INSTALLATION</u>		Aircraft Ser No: Date:				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
		Code	MAN HRS 1	INITS 2	MAN HRS 4						
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD											
BLOCK 1		AIR RADAR									
9. <u>Range Checks</u>											
9.1 Control unit.											
(a) On/off switch. (If fitted).		Set to 'ON' and allow a 5 minute warm up period.									
(b) Function switch.		Set to 'A/A' or 'TR' as appropriate.									
(c) External A/A switch. (If fitted).		Set to 'A/A'.									
(d) Channel selector.		Set to '39'.									
9.2 Air-to-Air TS.											
(a) Reject (Red) lamp.		Ensure extinguished.									
(b) Accept (Green) lamp.		Ensure lit.									
9.3 Indicator type T9547. (If fitted).)									
9.4 Nav display unit. (If fitted).)		Ensure Distance indication is between 98 and 102 nm.							
9.5 Range indicator.)									
9.6 BDHI Type 1D 1103/ARN.)									
9.7 Air-to-Air TS Range switch.		Set to '0'.									
9.8 Indicator type T9547. (If fitted).)									
9.9 Nav display unit. (If fitted).)		Ensure Distance indication is between 199.75 and 0.25 nm.							
9.10 Range indicator. (If fitted).)									
9.11 BDHI Type 1D 1103/ARN.)									
SMS/163A						Continued					

AIR RADAR SP 258 (9)	SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD				RAF Form 2988B (Revised Jan 85)	
			Aircraft Ser No: Date:		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable	
TACAN INSTALLATION			Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD								
BLOCK 1 AIR RADAR								
9. <u>Range Checks</u> (Contd)								
9.12 Air-to-Air TS. (a) Normal/Decode switch. (b) Green lamp. (c) Red lamp.				Hold to 'DECODE'. Ensure extinguished after few seconds. Ensure lit.				
BLOCK 2 AIR RADAR								
10. <u>TR Transponder</u>								
10.1 Air-to-Air TS. (a) Function switch. (b) Green lamp. (c) Red lamp.				Set to 'INTERROGATE'. Ensure lit. 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. (If fitted).)	Check Distance indication is between 199.75 and 0.25 nm.			
11.4 Range indicator. (If fitted).)				
11.5 BDHI 1D 1103/ARN.)				
SMS/164								

Continued

AIR RADAR SP 258 (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)	
TACAN INSTALLATION		TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
		MAN	INITS	MAN	INITS		
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD		Code	HRS 1	& TDM 2	3	HRS 4	& TDM 5
BLOCK 1		AIR RADAR					
12. <u>General</u>							
12.1 Control unit function switch.		Set to 'OFF'.					
12.2 Air-to-Air TS.		Set to 'OFF'.					
(a) On/Off switch.		(i) Disconnect from Direct socket and RT 636 aerial socket.					
(b) Attenuator connector.		(ii) Stow. Disconnect.					
(c) Power cable.							
12.3 RT 636 Antenna socket.		Reconnect aerial.					
SMS/ <u>H-1A</u>						Continued	

AIR RADAR SP 258A (1) (1 to 11)		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		
TRADE AR Elect	M/HRS	TRADE	M/HRS	ASSOCIATED PROCEDURE CARDS		Code	MAN HRS 1	INITS & TDM 2	MAN HRS 3	INITS & TDM 4		
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD												
<u>Special Tools and Equipment:</u>												
Test Kit Aerial Type 6996; Performance tester Type 10166.												
BLOCK 1		AIR RADAR										
1. <u>Preparation</u>												
1.1	TR aerial connector.			Disconnect from TR.								
1.2	TP 10166A.			Connect to 115V ac supply.								
	(a) Power lead.			Connect between RF socket and TR								
	(b) Attenuator.			aerial socket.								
	(c) Direct/Radiate switch.			Set to 'DIRECT'.								
	(d) On/Off switch.			Set to 'ON' and allow 5 minutes to								
				warm.								
BLOCK 2		ELECTRICAL										
2. <u>Preparation</u>												
2.1	External power supply.			(i) Connect.								
	(ii) Switch On.											
2.2	Inverter test switches.			Set to 'TEST'.								
2.3	Engine master switch.			Set to 'ON'.								
2.4	Invertors.			Ensure one inverter on 'MAIN' and one								
				inverter on 'STBY'.								

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|Continued

AIR RADAR SP 258A (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-(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								
3. <u>Preparation</u>										
3.1 Headset.		Connect to pilots MCC/TEL socket.								
3.2 Control Unit 9273A.		(a) Function switch. (b) Channel selector. (c) On/Off switch. (d) Panel lamps.			Set to 'A/G'. Set to '39'. Set to 'ON' and allow 5 minutes to warm. 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. <u>Power Output</u>										
4.1 TP 10166A.		(a) Meter switch. (b) Meter. (c) Attenuator control.			Set to 'TX POWER'. Ensure reading Zero. (i) Adjust until meter indication is 30 micro amps. (ii) Ensure green appears under cursor.					
4.2 Indicator type 9547. (If fitted).)			Ensure bearing needle and distance					
4.3 Nav display unit. (If fitted).)			counters rotate freely and black/yellow					
))			bar is visible.					
SMS/ []		Continued								

AIR RADAR SP 258A (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-(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>										
5.1 Control unit 9273A channel selector.		Set to '38'.								
5.2 Tacan display.		Ensure: (i) Roller blinds move smoothly through the range 0-200 miles. (ii) Rotate to give continuous changing bearing.								
5.3 Control unit 9273A.		Set to '39'.								
5.4 TP 10166A. (a) Bearing selector switch. (b) Range selector switch. (c) Meter switch. (d) Set RF level control.		Set to '140'. Set to '5'. Set to 'RX SENS'. Adjust for a meter reading indication of 30 micro amp.								
NB: During Sub-items 5.5 to 5.7 inclusive meter indication of 30 micro amp is to remain constant.										
5.5 Tacan display.		Ensure: (i) Bearing needle locks first time round at between 138 and 142 degrees. (ii) Distance counters lock first time round at between 4 and 5 miles and 'OFF' bar disappears.								
SMS/ 166		Continued								

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)			
<u>TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)</u>				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
				Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD									
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.							
SMS/ <i>W.A.C.</i>									Continued

AIR RADAR SP 258A (5)		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							
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. (b) Bearing selector.						Set to '5'. 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		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. (ii) Set for suitable audio level.								
		(b) On/Off switch. Set to 'OFF'.								
7.4 TP 10166A. (a) On/Off switch. (b) Attenuator cable.		Set to 'OFF'. 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.								
		Set to 'RAD ATE'.								
(b) RF element.		Set to 'ON and allow 5 minutes to warm.								
(c) Direct/Radiate switch.		Set to 'TX POWER'.								
(d) On/Off switch.		Ensure indicating Zero.								
(e) Function switch.		Set to 'RX SENS'.								
(f) Meter.										
(g) Function switch.										
SMS/ 11/11									Continued	

AIR RADAR SP 258A (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-(CONTROL UNIT 9273A FITTED)				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
				MAN	INITS	MAN	INITS		
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD				Code	HRS	1	2	HRS	4
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.							
SMS/ <i>168</i>								Continued	

AIR RADAR SP 258A (8)	SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD				RAF Form 2988B (Revised Jan 85)	
			Aircraft Ser No: Date:					
<u>TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)</u>			TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR	
			Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD								
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'. (ii) Ensure reject (red) lamp lit. (h) Set RF level. Adjust for a meter indication of 30 micro amps. (j) Range switch. Set to '100'.								
SMS/							Continued	

AIR RADAR SP 258A (9)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect. 2 Chap 7	SERVICING RECORD		RAF Form 2988B (Revised Jan 85)	
TACAN INSTALLATION-(CONTROL UNIT 9273A FITTED)		Aircraft Ser No: Date:					
		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		MAN HRS 4	INITS & TDM 5
BLOCK 1		AIR RADAR					
11. <u>Range Checks</u>							
11.1 Control unit 9273A. (a) On/off switch.		Set to 'ON' and allow 5 minutes warm up.					
(b) Function switch. (c) Channel selector.		Set to 'A/A'. Ensure set to '39'.					
11.2 Air to Air test set. (a) Reject (red) lamp. (b) Accept (green) lamp.		Ensure extinguished. 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. (b) Accept lamp. (c) Reject lamp. (d) NORMAL/DECODE switch.		Hold to 'DECODE'. Ensure extinguished after a few seconds. Ensure lit. Release.					
SMS/ 169							

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)			
<u>IFF/SSR INSTALLATION - (ABRIDGED TEST)</u>						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. <u>Preparation</u>											
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. <u>Built in Self Test</u>											
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.											
SMS/ <u>171</u>										Continued	

AIR RADAR SP 259 (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	
					Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
SAFETY AND SERVICING NOTES ARE TO BE COMPLIED WITH THROUGHOUT THE WORK DETAILED ON THIS CARD										
BLOCK 1 AIR RADAR										
2. <u>Built in Self Test</u> (Contd)										
2.2 Secondary warning panel. Ensure IFF warning lamp flashes or remains lit.										
2.3 CU 16929. (a) Self Test button. (b) Function switch. CU 16929. (c) Self Test button.					Release. Set to 'NORM' and allow a one minute warm up period. (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. (b) Function switch. (c) Self Test button. (d) Function switch.					Release. Set to 'EMGY'. (i) Depress and ensure Green confidence lamp lights. (ii) Release. Set to 'OFF'.					
2.6 Secondary warning panel. Ensure IFF warning lamp lights.										
BLOCK 2 AIR RADAR										
3. <u>General</u>										
3.1 Installation power supplies. Switch 'OFF'.										
SMS/ \ / \ /								Continued		

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Continued

AIR RADAR SP 260 (2)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD		RAF Form 2988B (Revised Jan 85)	
IFF/SSR INSTALLATION - FULL TEST				Aircraft Ser No: Date:			
				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable	
				MAN HRS 1	INITS & TDM 2		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.					

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Continued

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1. *Electrode* \rightarrow *Electrode* \rightarrow *Electrode* \rightarrow *Electrode* \rightarrow *Electrode* \rightarrow *Electrode*

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/ V1.1

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)

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Continued

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/ VTA/P

Continued

AIR RADAR SP 260 (7)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD		RAF Form 2988B (Revised Jan 85)	
IFF/SSR INSTALLATION - FULL TEST				Aircraft Ser No: Date:			
				TRADESMAN	Brief Details of Suspected Defect and SNOW When Applicable		SUPERVISOR
		Code	MAN HRS 1	INITS & TDM 2	3	MAN HRS 4	INITS & TDM 5
BLOCK 1		AIR RADAR					
4. <u>Radiation Check</u>							
4.1 Aircraft aerial test switch.		Set to 'Upper'.					
4.2 CU 16929 function switch.		Set to 'S.BY'.					
4.3 TR 16928.		Disconnect RF cable and attenuators.					
4.4 Aircraft aerial system.		Reconnect.					
4.5 TS CRM 544.		(i) Connect radiating element to RF O/P - I/P socket. (ii) Position Test Set approx 50 ft from aircraft.					
4.6 Functional checks.		Carry out iaw Table 2.					
SMS/ 175						Continued	

AIR RADAR
SP 260 (8)

SERVICING PROCEDURES
FUNCTIONAL CHECKS AND TESTS
HUNTER ALL MARKS

AP101B-1300-5A3B
Sect 2
Chap 7

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

SMS/ \ | / \ /

Continued

AIR RADAR SP 260 (9)		SERVICING PROCEDURES FUNCTIONAL CHECKS AND TESTS HUNTER ALL MARKS	AP101B-1300-5A3B Sect 2 Chap 7	SERVICING RECORD		RAF Form 2988B (Revised Jan 85)		
IFF/SSR INSTALLATION - FULL TEST				Aircraft Ser No: Date:				
				TRADESMAN		Brief Details of Suspected Defect and SNOW When Applicable		
				Code	MAN HRS 1	INITS & TDM 2	MAN HRS 4	INITS & TDM 5
BLOCK 1		AIR RADAR						
4. <u>Radiation Check</u> (Contd)								
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.		(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.		(i) Set to off. (ii) Disconnect.						
5.4 Aircraft aerial test switch.		Ensure set to 'FLIGHT' and replace guard.						
SMS/ <u>176</u>								Continued

AIR RADAR
SP 260 (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

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>Completion</u> (Contd)						
5.5 Test set CRM 544.	(i) Power switch 'OFF'. (ii) Disconnect and stow cables and attenuators.					
5.6 Simulator unit.	Disconnect from upper socket on frame 19.					
5.7 Cable 'SSR 2F'.	Reconnect to socket on Frame 19.					
SMS/ <i>VTHA</i>						

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