

SMS 17

CHAP	2	SP 106	SERVICING PROCEDURES										AP.101B-1000-5A3 F Section 1 (1st Edition)				TIME	ACT					
TRADE	AIR RADAR		LIGHTNING																				
SHEET	1	OF	7	SHEET/S	1	1A	2	2A	3	4	5	6	AL NO	DATE		EST							
TITLE	IFF/SSR Installation (Using Test Set CRM)												SERVICING RECORD AC NO DATE										
Safety and Servicing Notes are to be complied with throughout the work detailed on this Card.														(1)	(2)	(3)	(4)	(5)					
<u>Special Tools and Equipment</u> Test Kit Radar, 105/1050/59 Test Set CRM544 Co-axial Adapter BNC 50 ohm female-to-female, 5935-99-999-T889														MAN HOURS	TRADESMAN INIT	BRIEF DETAILS OF DEFECT OR SUSPECTED DEFECT	F. 720B NO	N.C.O. INITIALS					
AIR RADAR 1. <u>Preparation</u> 1.1 TR. Pressurize to 4 lbf/in2. 1.2 Test set. CRM544. (i) Position relative to aircraft. (ii) Connect to appropriate power. 1.3 RF cover Type 4345. (i) Position on upper aerial. (ii) Connect to CRM544 aerial socket using two connectors with adapters and attenuator. Note: Total attenuation is 60.5 dB. 1.4 Aircraft. (a) Upper and lower aeriels. Ensure correctly connected to aerial switch unit Type 16941 Set to 'UPPER'. (b) Aerial test (c) External Power switch (i) Set to 'ON' (ii) Check failure warning lamp is lit. 1.5 Control transponder set 16929. (a) Mode 1 switch. Set to 'ON'. (b) Mode 2, C and D switches.) Set to 'OFF', (c) Mode 3 A B switch.)														ASSOCIATED PROCEDURE CARDS					ASSOCIATED TRADES				
RM 52011/78																							
														Continued									

CHAP	2	AIR RADAR	SERVICING PROCEDURES		AP101B-1000-5A3F	
SP NO	106	CONTINUED	LIGHTNING		Section 1 (1st Edition)	
SHEET	2				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)	
AIR RADAR						
1. <u>Preparation</u> (Contd)						
1.5 Control						
transponder set						
16929.						
(d) Mode 1 and 3 code switches. Set to '0000'.						
(e) Civil/Mil switch. Set to 'MIL'.						
(f) Function switch.						
(i) Set to 'S/BY'.						
(ii) Check failure warning lamp extinguishes.						
(iii) Set to 'NORM'.						
(i) Depress.						
(ii) Check failure warning lamp flashes.						
(iii) Release.						
(iv) After one minute warm up depress. and check Green confidence lamp lights and failure warning lamp extinguishes.						
(v) Release.						
2. <u>Test Set CRM544</u>						
2.1 Power switch. Set to 'ON' and check power indicator lamp lights.						
2.2 Function switch. Set to 'SELF TEST' and check meter indicates at nominal setting on dB scale.						
3. <u>TR Serviceability Tests</u>						
3.1 Control transponder set 16929 and CRM 544. Carry out system check in accordance with the following Table 1.						
RM 52011/78A					Continued	

CHAP	2	AIR RADAR	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 F	
SP NO	106	CONTINUED			Section 1 (1st Edition)	
SHEET	3				AC NO DATE	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD	
					(1)	(2)

AIR RADAR			
TABLE 1			
Test	CU 16929 Switch Positions	CRM544 Switch Positions	Meter Indication
1.	Mode 1,2,C and D switches to 'ON'	Mode switch to Mode 1. Function switch to 'FREQ/PWR'	Green
	Mode 3A/B switch to 3A Mode 1, 2 and 3 code switches to 7777, Civl/Mil switch to 'MIL'. Function switch to 'NORM'.		
2.	As for Test 1.	Mode switch to Mode 2	Green
3.	As for Test 1.	Mode switch to Mode 3A	Green
4.	As for Test 1.	Mode switch to Mode C	Green
5.	As for Test 1.	Mode switch to Mode D	Green
6.	Function switch to 'LOW SENS'.	Mode 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 below:- 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 below. Check meter indicates 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

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CHAP	2	AIR RADAR	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 F Section 1 (1st Edition)	
SP NO	106	CONTINUED				
SHEET	4	AL 9			AC NO DATE	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD	
					(1)	(2)

AIR RADAR			
TABLE 1 (Contd)			
Test	CU 16929 Switch Positions	CRM544 Switch Positions	Meter Indication
9.	Operate Mode 2 code switches as in Test 8	Mode switch to Mode 2 Operate Code switches as in Test 8.	Green
10.	Operate Mode 3 code switches as in Test 8.	Mode switch to Mode 3A Operate Code switches as in Test 8.	
11.	Mode 1 code switches to 7777	Code switches to 7777 Mode switch to Mode 1 Function switch to 'NO REPLY'.	Red
12.	As for Test 11.	Function switch to 'REPLY RATE'.	Approx 40 per cent detection
13.	As for Test 11.	Function switch to 'IDENT'.	Red
14.	Press and release IP switch.	As for Test 13.	Green for approx 20 secs.
15.	Mode 2 code switches to 7777.	Mode switch to Mode 2	Red
16.	Press and release IP switch.	As for Test 15.	Green for approx 20 secs.
17.	Mode 3 code switches to 7777.	Mode switch to Mode 3A	Red
18.	Press and release IP switch.	As for Test 17.	Green for approx 20 secs.
19.	Mode 3A/B switch to 'B'.	Mode switch to Mode B	Red
20.	Press and release IP switch.	As for Test 19.	Green for approx 20 secs.

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CHAP	2	AIR RADAR	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3F Section 1 (1st Edition)	
SP NO	106	CONTINUED			AC NO DATE	
SHEET	5					
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD	
					(1)	(2)
					(3)	(4)
					(5)	(5)
AIR RADAR						
TABLE 1 (Contd)						
Test	CU 16929 Switch Positions		CRM544 Switch Positions		Meter Indication	
21.	Mode 2, C and D switches to 'OFF' Mode 3A/B switch to 'OFF'. Mode 1 Code switches to 0077. Mode 2 code switches to 0055. Mode 3 code switches to 0066.		Code switches to 0077 Mode switch to Mode 1 Function switch to 'EMERG'.		Red	
22.	Function switch to 'EMGY'.		As for Test 21.		Green	
23.	Mode 1 switch to 'OFF'.		As for Test 21.		Green	
24.	As for Test 23.		Code switches to 0055 Mode switch to Mode 2		Green	
25.	As for Test 23.		Code switches to 0066 Mode switch to 3A.		Green	
26.	As for Test 23.		Mode switch to B		Green	
27.	Civil/Mil switch to 'CIVIL'.		Code switches to 7700		Green	
28.	As for Test 27.		Mode switch to 3A		Green	
NB	Transfer RF cover Type 4345 to lower aerial and set aircraft aerial test switch to 'LOWER'.					
29.	Mode 1 switch to 'ON'. Function switch to 'NORM'.		Code switches to 7777 Mode switches to Mode 1. Function switch to 'FREQ/POWER'.		Green	
30.	As for Test 29.		Function switch to 'REPLY'.		Green	
31.	Set Aerial Test switch to 'FLIGHT' As for Test 29.		As for Test 30.		Approx 50 per cent deflection	
RM 52011/80						
Continued						

CHAP	2	AIR RADAR	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3F Section 1 (1st Edition)				
SP NO	106	CONTINUED			AC NO DATE				
SHEET	7				SERVICING RECORD				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					(1)	(2)	(3)	(4)	(5)

AIR RADAR

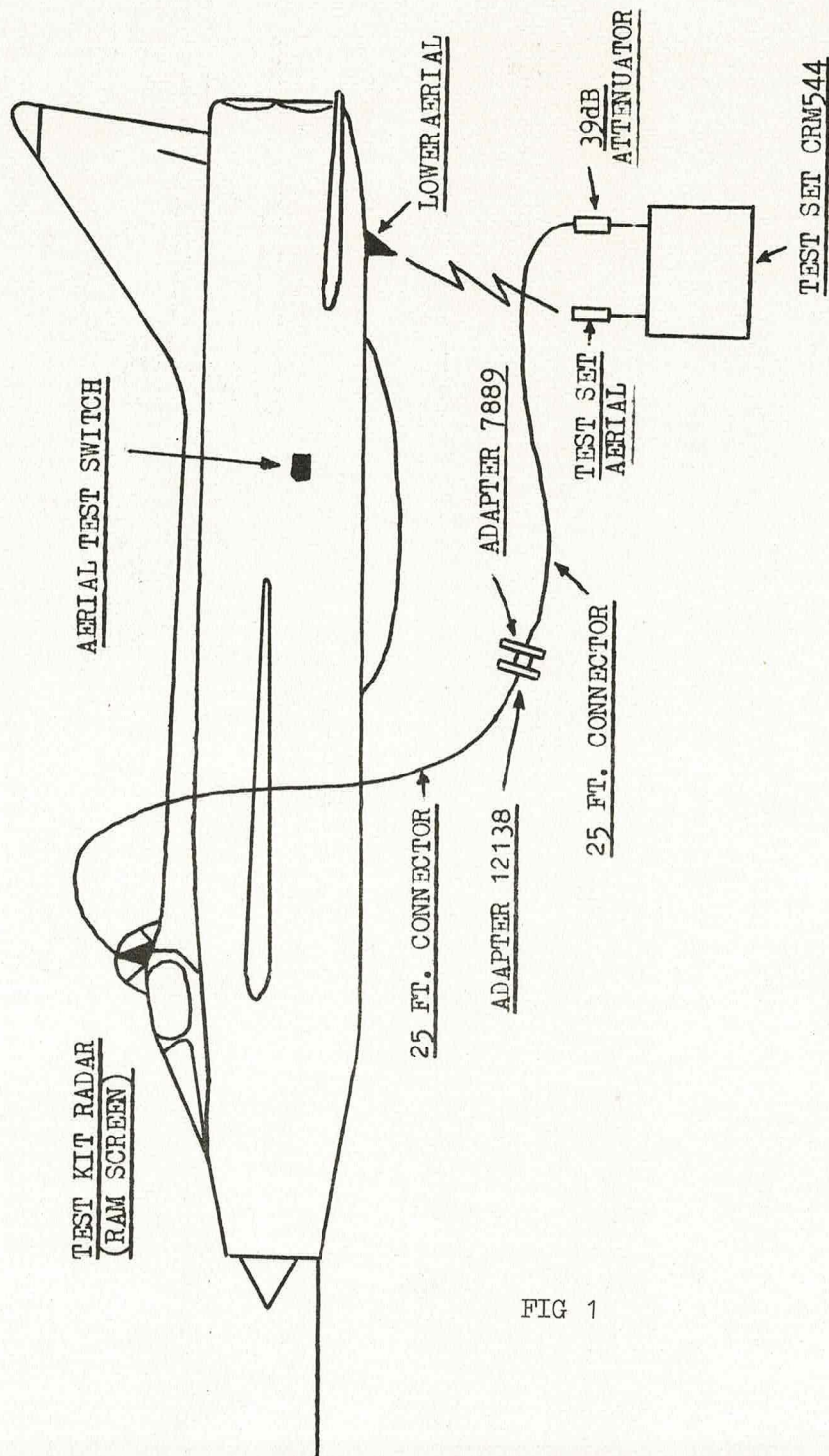


FIG 1

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