



CHAP	2	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E				
SP NO	111	CONTINUED	LIGHTNING		Section 1				
SHEET	2	AL 12			(1st Edition)				
					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)
FLT SYST									
4.	<u>Preparation</u>								
4.1	MRG On/Off switch.	) Set to 'ON'.							
4.2	Instrument master switch.								
AIR RADAR									
5.	<u>Test</u>								
5.1	In this Sub-item, Sub-sub-item (b) is applicable only to control units Type 9273 and Sub-sub-item (d) is applicable only to control units Type 9273A.								
	Tacan control unit.								
	(a)	On/Off switch.	Set to 'ON'.						
	(b)	Function switch.	Set to 'BRG'.						
	(c)	Channel switch.	Set to '39'.						
	(d)	AA/AG switch.	Set to 'AG'.						
5.2	Test set.								
	(a)	Meter switch.	Set to 'TX POWER'.						
	(b)	Attenuator control.	Set to junction of Red and Green sectors.						
	(c)	Set Zero control.	Adjust to set meter to '0'.						
	(d)	Meter switch.	Set to 'RX SENSE'.						
	(e)	RF Level control.	Adjust to set meter to '30'.						
5.3	Tacan control unit volume control.		Operate and ensure headset ident tone is audible.						
5.4	Test set meter switch.		Set to 'TX POWER'.						
5.5	Tacan offset computer.								
	(a)	Range	) Set to '000'.						
	(b)	Bearing.							
5.6	This Sub-item is applicable only to control units Type 9273.								
	Tacan control unit function switch.		Set to 'DIST BRG'.						
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SP NO	111	CONTINUED	LIGHTNING		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)	(3)	(4)	(5)
NAV INSTRUMENTS									
6.	<u>Test</u>								
6.1	Nav display unit.								
	(a)	Mode selector.	Set to 'TAC'.						
	(b)	Roller blind.	Check tacan range display appears within 10 seconds.						
	(c)	Range counter.	Ensure flag clears.						
	(d)	Roller blind.	Check range scale alternately increases slowly to 200 nm, then moves rapidly back to zero.						
	(e)	Range counter.	Ensure indication is approximately that of roller blind.						
	(f)	Roller blind carriage.	Ensure bearing display rotates slowly anti-clockwise.						
AIR RADAR									
7.	<u>Test</u>								
7.1	Test set.								
	(a)	Meter switch.	Set to 'RX SENSE'.						
	(b)	RF level control.	Adjust as required.						
	(c)	Range switch.	Set to '105'.						
	(d)	Bearing switch.	Set to '140'.						
7.2	Tacan coupling unit.								
	(a)	Range indication.	Check indication is 105 PLUS OR MINUS 3 nm.						
	(b)	Bearing indication.	Check indication is 140 PLUS OR MINUS 5 degrees.						
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SP NO	111	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)
NAV INSTRUMENTS							
8.	<u>Test</u>						
8.1	Nav display unit roller blind carriage.	Check bearing is between 133 and 147 degrees.					
AIR RADAR							
9.	<u>Test</u>						
9.1	Test set bearing switch.	Set to '323'.					
9.2	Tacan coupling unit.						
	(a) Range indication.	Check indication is 105 PLUS OR MINUS 3 nm.					
	(b) Bearing indication.	Check indication is 323 PLUS OR MINUS 5 degrees.					
NAV INSTRUMENTS							
10.	<u>Test</u>						
10.1	Nav display unit roller blind carriage.	Check bearing is between 318 and 328 degrees.					
AIR RADAR							
11.	<u>Test</u>						
11.1	Test set.						
	(a) RF level control.	Adjust to set meter to '30'.					
	(b) Attenuator control.	Set to Green sector.					
	(c) Range switch.	Set to '4.5'.					
11.2	Tacan coupling unit range indication.	Check indication is 5 PLUS OR MINUS 2.5 nm.					
NAV INSTRUMENTS							
12.	<u>Test</u>						
12.1	Nav display unit.						
	(a) Range counter.	Check indication is between 2.5 and 7.5 nm.					
	(b) Roller blind.						

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SP NO	111	CONTINUED		AC NO . . . . . DATE . . . . .				
SHEET	5			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								
13.	<u>Test</u>							
13.1	Test set range switch.	Set to '105'.						
13.2	Tacan coupling unit range indication.	Check indication is 105 PLUS OR MINUS 5 nm.						
NAV INSTRUMENTS								
14.	<u>Test</u>							
14.1	Nav display unit.	Check indication is between 100 and 110 nm.						
	(a) Range counter.							
	(b) Roller blind.							
AIR RADAR								
15.	<u>Test</u>							
15.1	Test set bearing switch.	Set to '140'.						
15.2	Tacan offset computer.	Adjust to that of Tacan coupling until plus 90 degrees.						
	(a) Bearing		Adjust to that of Tacan coupling unit.					
	(b) Range.							
NAV INSTRUMENTS								
16.	<u>Test</u>							
16.1	Nav display unit.	Check that bearing is that of tacan coupling unit plus 45 degrees PLUS OR MINUS 2 degrees.						
	(a) Roller blind carriage.		Check that range identification is that of Tacan coupling unit multiplied 1.414, PLUS OR MINUS 3 nm.					
	(b) Range counter.			Set to 'DL'.				
	(c) Roller blind.)				Check bearing is between 133 and 147 degrees.			
	(d) Mode selector.							
	(e) Roller blind carriage.							
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SP NO	111	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)
AIR RADAR						
17.	<u>Test</u>					
17.1	Test set.					
	(a)	Meter switch.	Set to 'TX POWER'.			
	(b)	Attenuator control.	(i) Adjust to set meter to '30'.			
			(ii) Ensure cursor lies above Green sector.			
17.2	In this Sub-item, sub-sub-item (b) is applicable only to control units Type 9273.					
	Tacan control unit.					
	(a)	On/Off switch.	Set to 'OFF'.			
	(b)	Function switch.	Set to 'BRG'.			
NAV INSTRUMENTS						
18.	<u>Test</u>					
18.1	Nav display unit mode selector.		Set to 'COMP'.			
19.	<u>General</u>					
19.1	MRG On/Off switch.	}	Set to 'OFF'.			
19.2	Instrument master switch.)					
AIR RADAR						
20.	<u>General</u>					
20.1	Test set power connector.		Disconnect 115V ac supply.			
20.2	Test kit Type 6996.					
	(a)	RF cover Type 4345.	Remove from aerial.			
	(b)	Connector.	Disconnect from RF cover and test set RF socket.			
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