

CHAP	5	SP 517	SERVICING PROCEDURES						AP. 101B-1000-5A3 E			TIME	ACT		
TRADE	FLT SYST		LIGHTNING						Section (1st Edition) 1						
SHEET	1	OF 5	SHEET/S				3	5	6	AL NO	12	DATE	EST		
TITLE	MRG Mk 2 system, Gyro reference unit and/or Electronic unit						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>										MAN HOURS	TRADESMAN INIT	BRIEF DETAILS OF DEFECT OR SUSPECTED DEFECT	P. 720B NO	N.C.O. INITIALS	
Test Set MRG Mk 2 1st line.															
NB This Procedure is applicable only if a serviceable component is replaced in a known serviceable system.															
▶															
FLT SYST															
1. <u>Preparation</u>															
1.1 MRG Mk 2 test set. Connect to aircraft.															
1.2 External power supplies. (A.c. and d.c.). (i) Connect to aircraft. (ii) Set to 'ON'.															
1.3 Instrument master switch.) Set to 'ON'.															
1.4 MRG On/Off switch.)															
1.5 MRG Mk 2 test set. (i) Check starting cycle using table in test set. (ii) On completion of starting cycle check a.c and d.c. outputs from MRG.															
1.6 PCU. (a) Master switch. Set to 'ON'. (b) Stab switch. Set to 'STAB'. (c) Attitude switch. Select.															
1.7 FD/AP switch. Set to 'AP'.															
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ASSOCIATED PROCEDURE CARDS

ASSOCIATED TRADES

CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	517	CONTINUED	LIGHTNING		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)
FLT SYST						
1.	<u>Preparation</u> (Contd)					
1.8	Attitude indicator.					
	(a)	Power failure warning flag.	Ensure cleared.			
	(b)	Bank and elevation angle indications.	Ensure approximatley zero.			
	(c)	FD bead.	Ensure at centre of presentation.			
1.9	Navigation display.					
	(a)	Compass mode.	Select.			
	(b)	Comp/DG switch.	Set to 'COMP'.			
	(c)	Compass system.	Synchronize.			
2.	<u>Testing</u>					
2.1	MRG Mk 2 test set set motor off switch.		Motor off 20 degrees nose up.			
2.2	Attitude indicator.					
	(a)	Elevation indication.	Ensure 20 degrees nose up.			
	(b)	Bank indication.	Ensure approximatley zero.			
	(c)	FD bead.	Ensure indicates Fly Down.			
2.3	Navigation display compass system.		Ensure synchronized.			
2.4	MRG MK 2 test set elevation output.		Using fast then normal erection return to zero.			
2.5	Attitude indicator bank elevation indications.		Ensure approximatley zero.			
SMS/80/453/45A			Continued			

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CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E				
SP NO	517	CONTINUED		Section (1st Edition) 1				
SHEET	3	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)	
FLT SYST								
2.	<u>Testing</u> (Contd)							
2.6	MRG Mk 2	Motor off 20 degrees nose down.						
	test set motor off switch.							
2.7	Attitude indicator.							
	(a) Elevation indication.	Ensure 20 degrees nose down.						
	(b) Bank indication.	Ensure approximatley zero.						
	(c) FD bead.	Ensure indicates Fly Up.						
2.8	Navigation display compass system.	Ensure synchronized.						
2.9	MRK Mk 2	Using fast then normal erection return to zero.						
	test set elevation output.							
2.10	Attitude indicator bank and elevation indications.	Ensure approximatley zero.						
2.11	MRG Mk 2	Motor off 20 degrees right wing low.						
	test set motor off switch.							
2.12	Attitude indicator							
	(a) Bank indication.	Ensure 20 degrees right wing low.						
	(b) Elevation indication.	Ensure approximatley zero.						
	(c) FD bead.	Ensure indicates Fly Left.						
2.13	Navigation display compass system.	Ensure synchronized.						
2.14	MRG Mk 2 test set bank output.	Using fast then normal erection return to zero.						
2.15	Attitude indicator bank and elevation indications.	Ensure approximatley zero.						
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CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	517	CONTINUED		AC NO DATE				
SHEET	4	AL 12		SERVICING RECORD				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.			(1)	(2)	(3)	(4)	(5)	
<p style="text-align: center;">FLT SYST</p> <p>2. <u>Testing</u> (Contd)</p> <p>2.16 MRG Mk 2 test Motor off 20 degrees set motor off left wing low. switch.</p> <p>2.17 Attitude indicator. (a) Bank Ensure 20 degrees left indication. wing low. (b) Elevation Ensure approximately indication. zero. (c) FD bead. Ensure indicates Fly Right.</p> <p>2.18 Navigation Ensure synchronized. display compass system.</p> <p>2.19 MRG Mk 2 test Using fast then normal set bank erection return to zero. output.</p> <p>2.20 Attitude Ensure approximately indication bank zero. elevation indication.</p> <p>2.21 MRG Mk 2 test Operate in plus 3 degrees set Mag Non minute direction for 1 switch. minute then set to centre.</p> <p>2.22 Navigation Ensure heading increased. display. (a) Compass indication. (b) Annunciator. Ensure shows a cross. (c) Compass Allow to precess until system. synchronized.</p> <p>2.23 MRG Mk 2 Operate in the minus 3 test set Mag degrees/minute direction Non switch. for 1 minute then set to centre.</p>								
SMS/80/453/46A			Continued					

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CHAP	5	FLI SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E	
SP NO	517	CONTINUED		Section 1 (1st Edition)	
SHEET	5	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)

FLI SYST			(1)	(2)	(3)	(4)	(5)
2.	<u>Testing</u> (Contd)						
2.24	Navigation display.						
	(a) Compass indication.	Ensure heading decreased.					
	(b) Annunciator.	Ensure shows a dot.					
	(c) Compass system.	Allow to precess until synchronized.					
3.	<u>General</u>						
3.1	PCU.						
	(a) Master Switch.	Set to 'OFF'.					
	(b) Stab switch.)						
3.2	FD/AP switch.)	Set to 'OFF'.					
3.3	Instrument master switch.)						
3.4	MRG On/Off switch.)						
3.5	External power supplies.	(i) Set to 'OFF'.					
		(ii) Disconnect and remove from aircraft.					
3.6	MRG Mk 2 test set.	Disconnect and remove from aircraft.					

SMS/80/453/47

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