

CHAP	5	SP 517	SERVICING PROCEDURES						AP. 101B-1000-5A3 E Section (1st Edition) 1				TIME EST	ACT		
TRADE	FLT SYST		LIGHTNING													
SHEET	1	OF	5	SHEET/S				3	5	6	AL NO	12	DATE			
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)	
Special Tools and Equipment											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.																
<p style="text-align: center;">▶</p> <p style="text-align: center;">FLT SYST</p>																
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'.																
SMS/80/453/45											Continued				SP NO	517

ASSOCIATED PROCEDURE CARDS

ASSOCIATED TRADES

SMS 17

CHAP	5	FLT SYST	SERVICING PROCEDURES	AP101B-1000-5A3 E	
SP NO	517	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)	
<p style="text-align: center;">FLT SYST</p> <p>1. <u>Preparation</u> (Contd)</p> <p>1.8 Attitude indicator.</p> <p>(a) Power failure warning flag. Ensure cleared.</p> <p>(b) Bank and elevation angle indications. Ensure approximatley zero.</p> <p>(c) FD bead. Ensure at centre of presentation.</p> <p>1.9 Navigation display.</p> <p>(a) Compass mode. Select.</p> <p>(b) Comp/DG switch. Set to 'COMP'.</p> <p>(c) Compass system. Synchronize.</p> <p>2. <u>Testing</u></p> <p>2.1 MRG Mk 2 test set set motor off switch. Motor off 20 degrees nose up.</p> <p>2.2 Attitude indicator.</p> <p>(a) Elevation indication. Ensure 20 degrees nose up.</p> <p>(b) Bank indication. Ensure approximatley zero.</p> <p>(c) FD bead. Ensure indicates Fly Down.</p> <p>2.3 Navigation display compass system. Ensure synchronized.</p> <p>2.4 MRG MK 2 test set elevation output. Using fast then normal erection return to zero.</p> <p>2.5 Attitude indicator bank elevation indications. Ensure approximatley zero.</p>					
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 test set motor nose down. off switch.								
2.7 Attitude indicator.								
(a) Elevation Ensure 20 degrees nose indication. down.								
(b) Bank Ensure approximatley indication. zero.								
(c) FD bead. Ensure indicates Fly Up.								
2.8 Navigation Ensure synchronized. display compass system.								
2.9 MRK Mk 2 Using fast then normal test set erection return to zero. elevation output.								
2.10 Attitude Ensure approximatley indicator bank zero. and elevation indications.								
2.11 MRG Mk 2 Motor off 20 degrees test set motor right wing low. off switch.								
2.12 Attitude indicator								
(a) Bank Ensure 20 degrees right indication. wing low.								
(b) Elevation Ensure approximatley indication. zero.								
(c) FD bead. Ensure indicates Fly Left.								
2.13 Navigation Ensure synchronized. display compass system.								
2.14 MRG Mk 2 test Using fast then normal set bank erection return to zero. output.								
2.15 Attitude Ensure approximatley indicator bank zero. and elevation indications.								
GMS/80/453/46				Continued				

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				

SMS 17A

CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	517	CONTINUED		AC NO DATE				
SHEET	5	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>2.24 Navigation display.</p> <p> (a) Compass Ensure heading decreased. indication.</p> <p> (b) Annunciator. Ensure shows a dot.</p> <p> (c) Compass Allow to precess until system. synchronized.</p> <p>3. <u>General</u></p> <p>3.1 PCU.</p> <p> (a) Master) Switch.) Set to 'OFF'.</p> <p> (b) Stab switch.)</p> <p>3.2 FD/AP switch.) 3.3 Instrument) master switch.) Set to 'OFF'.</p> <p>3.4 MRG On/Off) switch.)</p> <p>3.5 External power (i) Set to 'OFF'.</p> <p> supplies. (ii) Disconnect and remove from aircraft.</p> <p>3.6 MRG Mk 2 Disconnect and remove test set. from aircraft.</p>								
SMS/80/453/47								

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