

CHAP	5	SP 511	SERVICING PROCEDURES			AP 101B-1000-5A3 E (Section 1 (1st Edition))			TIME	ACT	
TRADE		FLT SYST	LIGHTNING								
SHEET	1	OF	5	SHEET/S		3	5	6	EST		
TITLE	FCS 4 Channel Actuator Amplifier					SERVICING RECORD - RAF F.2988B 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	TRADESMEN INIT	BRIEF DETAILS OF OR SUSPECTED DEFECT	F. 720B NO	N.C.O. INITIALS	ASSOCIATED PROCEDURE CARDS
Test Set Type 8A. Ground Rigs, Hydraulic.											
<p>NB This Procedure is applicable only if a serviceable component is replaced in a known serviceable system. ▶◀</p> <p style="text-align: center;">FLT SYST</p> <p>1. <u>Perparation</u></p> <p>1.1 External power supplies. (A.c. and d.c.)</p> <p>1.2 Type 8A test set.</p> <p>1.3 Control surfaces.</p> <p>1.4 Hydraulic gound rigs.</p> <p>1.5 Control surfaces (a) Ailerons.) (b) Rudder.) (c) Tailplane.)</p> <p>1.6 Instrument master switch.)</p> <p>1.7 MRG On/Off switch.)</p>											
SMS/80/453/37						Continued					
						ASSOCIATED TRADES					
						SP NO					
						511					

CHAP	5	FLT SYST	SERVICING PROCEDURES	AP101B-1000-5A3 E	
SP NO	511	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)	(3)
			(4)	(5)	
FLT SYST					
2.	<u>Testing</u>				
2.1	Type 8A test set.				
	(a) M1 measure switch.	Set to 'RATE GYRO'.			
	(b) Rate gyro switch.	Set to 'PITCH'.			
2.2	PCU.				
	(a) Master switch.	Set to 'ON'.			
	(b) Stab switch.	Set to 'STAB'.			
	(c) Attitude switch.	Select.			
	(d) Supplies M1.	Ensure shows Black.			
2.3	FD bead.	Ensure in parking position.			
2.4	Type 8A test set.				
	(a) Meter M1.	(i) One minute after switching on check indicated current is less than 200mA.			
		(ii) Repeat with rate gyro switch in yaw and roll positions.			
		Note: Fsd equals 500mA.			
	(b) M2 measure switch.	Set to 'RG ROLL'.			
	(c) Deflect increase switch.	Set to 'MAX'.			
	(d) Deflect rate gyro switch.	Operate.			
2.5	Aileron trailing edges.	Ensure Starboard moves down and Port up, then both decay to neutral.			
2.6	Type 8A test set deflect rate gyro switch.	Release.			
2.7	Aileron trailing edges.	Ensure Starboard moves up and Port down, then both decay to neutral.			
SMS/80/453/37A			Continued		

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CHAP	5	FLI' SYST'	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	511	CONTINUED		AC NO DATE				
SHEET	3	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)
FLI' SYST'								
2.	<u>Testing</u> (Contd)							
2.8	Type 8A test set.							
	(a)	Rate gyro switch.	Set to 'PITCH'.					
	(b)	M2 measure switch.	Set to 'RG PITCH'.					
	(c)	Deflect rate gyro switch.	Operate.					
2.9	Tailplane leading edge.							
				Ensure moves up then decays to neutral.				
2.10	Type 8A test set deflect rate gyro switch.							
				Release.				
2.11	Tailplane leading edge.							
				Ensure moves down then decays to neutral.				
2.12	Type 8A test set.							
	(a)	Rate gyro switch.	Set to 'YAW'.					
	(b)	M2 measure switch.	Set to 'RG YAW'.					
	(c)	Deflect rate gyro switch.	Operate.					
2.13	Rudder trailing edge.							
				Ensure moves to Starboard and then decays to neutral.				
2.14	Type 8A test set deflect rate gyro switch.							
				Release.				
2.15	Rudder trailing edge.							
				Ensure moves to Port and then decays to neutral.				
2.16	FD/AP switch.							
				Set to 'AP'.				
2.17	FD bead.							
				Ensure moves to centre of presentation.				
2.18	PCU.							
	(a)	Mode M1.	Ensure shows Auto.					
	(b)	VSC.	Rotate fully up.					
2.19	Tailplane leading edge.							
				Ensure moves down.				
2.20	FD bead.							
				Ensure moves up.				
2.21	PCU VSC.							
				Return to centre.				
SMS/80/453/38				Continued				

CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E				
SP NO	511	CONTINUED		Section 1 (1st Edition)				
SHEET	4	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)								
2.22	Tailplane leading edge.	Ensure returns to neutral.						
2.23	FD bead.	Ensure returns to centre.						
2.24	PCU VSC.	Rotate fully down.						
2.25	Tailplane leading edge.	Ensure moves up.						
2.26	FD bead.	Ensure moves down.						
2.27	PCU VSC.	Return to centre.						
2.28	Tailplane leading edge.	Ensure returns to neutral.						
2.29	FD bead.	Ensure returns to centre.						
2.30	PCU BAC.	Rotate fully clockwise.						
2.31	Aileron trailing edge.	Ensure Starboard moves up and Port down.						
2.32	FD bead.	Ensure moves to right.						
2.33	PCU BAC.	Return to centre.						
2.34	Ailerons trailing edges.	Ensure returns to neutral.						
2.35	FD bead.	Ensure returns to centre.						
2.36	PCU BAC.	Rotate fully anti-clockwise.						
2.37	Aileron trailing edges.	Ensure Starboard moves down and Port up.						
2.38	FD bead.	Ensure moves to left.						
2.39	PCU BAC.	Return to centre.						
2.40	FD/AP switch.	Set to 'OFF'.						
2.41	PCU. (a) Stab switch.) (b) Master switch.)	Set to 'OFF'.						
2.42	FD bead.	Ensure in parking position.						
SMS/8c/453/38A				Continued				

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