

CHAP	2	SP 114	SERVICING PROCEDURES	AP 101B-1000-5A3E (Section 1 (1st Edition))				TIME EST	ACT				
TRADE	FLT SYST		LIGHTNING										
SHEET	1	OF	5	SHEET/S	3	5	6			AL NO	11	DATE	
TITLE	Aileron Autostabiliser Actuator Test - After Fitment.							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	
Test Set Type 11 Gyro Deflection Box 6C/2201. Gauge Aileron Travel Port. 26DK 95772. Gauge Aileron Travel. Starboard 26DK/95773													
FLT SYST													
1. Preparation													
1.1 Test set Type 11. Connect to aircraft test sockets F, L and J.													
1.2 External power supplies. (AC and DC). (i) Connect. (ii) Switch 'ON'.													
AIRFRAME													
2. Preparation													
2.1 Hydraulic reservoir No 1 controls system. Replenish. SP 604 (AF).													
2.2 Hydraulic reservoir services system.													
2.3 Hydraulic accumulator No 1 controls system. Check pressure SP 603 (AF).													
2.4 Hydraulic accumulator No 1 services system.													
2.5 Hydraulic servicing trolleys. (i) Connect to No 1 controls system test connections (Access panel 45P). (ii) Connect to No 1 services system test connection (Access panel 45P).													
SMS/80/92/7								Continued					
SP NO								ASSOCIATED TRADES				SP 107(NI) 603(AF) 604(AF)	
114								AF					

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section (1st Edition)				
SP NO	114	CONTINUED			AC NO DATE				
SHEET	2	AL 11							
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.				SERVICING RECORD					
				(1)	(2)	(3)	(4)	(5)	
AIRFRAME									
2.	<u>Preparation</u>								
2.6	Aileron travel gauge Port.	Fit.							
2.7	Aileron travel gauge Starboard.	Fit.							
2.8	No 1 controls system.	} Pressurize to 3000 lbs/in2.							
2.9	No 1 services system.								
2.10	Ailerons.	Set to neutral.							
FLT SYST									
3.	<u>General</u>								
3.1	Instrument master switch.	Set to 'ON'.							
3.2	MRG switch.	(i) Set to 'ON'. (ii) Allow to complete starting cycle.							
3.3	Nav display heading pointer.	Ensure set at lubber line.							
3.4	Pilot's control unit master switch.	Set to 'ON'.							
3.5	Pilot's control unit stab switch.	Set to 'STAB'.							
3.6	Pilot's control unit supply magnetic indicator.	Ensure show Black.							
3.7	Test set red indicator lamp.	Ensure lit.							
3.8	Test set rate gyro switch.	Set to maximum.							
SMS/80/92 / 7A				Continued					

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CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section (1st Edition)				
SP NO	114	CONTINUED			AC NO DATE				
SHEET	3	AL 16							
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>Testing</u>									
4.1 Test set Type 11 Set to 'ROLL'. rate gyro switch.									
4.2 Test set Type 11 Depress. deflection switch.									
4.3 Port aileron, trailing edge. Ensure moves up approximately 1 degree then decays to neutral.									
4.4 Starboard aileron, trailing Ensure moves down edge. approximately 1 degree then decays to neutral.									
4.5 Test set Type 11 Release. deflection switch.									
4.6 Port aileron, trailing edge. Ensure moves down then decays to neutral.									
4.7 Starboard aileron, Ensure moves up then trailing edge. decays to neutral.									
4.8 Pilot's control Select to 'ATTITUDE'.									
4.9 AP/FD switch. Set to 'AP'.									
▶ 4.10 Pilots control Turn fully units B.A.C. anti clockwise.									
4.11 Port aileron Ensure moves up trailing edge. approximately 2.4 degrees.									
4.12 Starboard aileron Ensure moves down trailing edge. approximately 2.4 degrees.									
4.13 Pilot's control Return to centre. unit B.A.C.									
4.14 Port aileron Ensure moves to neutral. trailing edge.									
4.15 Starboard aileron Ensure moves to neutral. trailing edge.									
SMS/82/166/2			Continued						

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CHAP	2	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3E	
SP NO	114	CONTINUED	LIGHTNING		Section	
SHEET	4	AL 11			(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>4. <u>Testing</u> (Contd)</p> <p>4.16 Pilot's control Turn fully clockwise. unit B.A.C.</p> <p>4.17 Port aileron Ensure moves down trailing edge. approximately 2.4 degrees.</p> <p>4.18 Starboard aileron Ensure moves up trailing edge. approximately 2.4 degrees.</p> <p>4.19 Pilot's control Return to centre. unit B.A.C.</p> <p>4.20 Port aileron Ensure return to trailing edge. neutral.</p> <p>4.21 Starboard aileron Ensure returns to trailing edge. neutral.</p> <p>5. <u>Dither Test</u></p> <p>5.1 Dither setting. Test SP 107 (NI).</p> <p>6. <u>Completion</u></p> <p>6.1 AD/FP switch.)</p> <p>6.2 Pilot's control)</p> <p>6.3 Pilot's control)</p> <p> unit stab switch.)</p> <p>6.4 Pilot's control)</p> <p> unit master)</p> <p> switch.)</p> <p>6.5 MRG master)</p> <p> switch.)</p> <p> Set to 'OFF'.</p> <p>6.5 Instrument Set to 'OFF'. master switch.</p> <p>6.6 External (i) Switch off. electrical power (ii) Disconnect. supplies.</p> <p>6.7 Test Set (i) Disconnect. gyro deflection (ii) Remove. box.</p>						
SMS/82/166/2A					Continued	

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section (1st Edition)				
SP NO	114	CONTINUED			AC NO DATE				
SHEET	5	AL 11							
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>6. <u>Completion</u> (Contd)</p> <p>6.8 Test sockets (i) Refit shorting plug. and shorting (ii) Fit blanks. plug.</p>									
<p style="text-align: center;">AIRFRAME</p> <p>7. <u>Completion</u></p> <p>7.1 Hydraulic) (i) Release pressure. servicing) (ii) Remove. trolleys.)</p> <p>7.2 Aileron travel Remove. gauges.</p> <p>7.3 Servicing Ensure relevant entries documents. are made for Independent checks.</p>									
SMS/80/92/9					Continued				

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DATE	DESCRIPTION	AMOUNT	CHECK NO.	INITIALS
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