

CHAP	5	SP 503	SERVICING PROCEDURES										AP. 101B-1000-5A3 E Section 1 (1st Edition)				TIME ACT	EST		
TRADE	FLT SYST		LIGHTNING																	
SHEET	1	OF	4	SHEET/S						3		5	6	AL NO	12	DATE				
TITLE	ADS Air Data Computer													SERVICING RECORD AC NO DATE				TIME EST		
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	F. 720B NO	N.C.O. INITIALS			
Test Set Type 8A. Test Set Pitot/Static Mk 4 or 5.																				
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 Pitot/Static test set. Connect to aircraft.																				
1.2 Type 8A test set. (i) Connect to aircraft test socket J, F and L (ii) Connect to FC5 on FCC. (iii) Connect to AD4 on ADC.																				
1.3 External power supplies. (A.c and d.c.). (i) Connect to aircraft. (ii) Set to 'ON'.																				
1.4 Instrument master switch. } Set to 'ON'.																				
1.5 AI23B master switch. }																				
1.6 PCU. (a) Master switch. Set to 'ON'. (b) Stab switch. Set to 'STAB'. (c) Track switch. Select.																				
1.7 Height display unit millibar scale. Set to prevailing Barometric Pressure (QFE).																				
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ASSOCIATED PROCEDURE CARDS

ASSOCIATED TRADES

CHAP	5	FLT SYST	SERVICING PROCEDURES	AP101B-1000-5A3 E	
SP NO	503	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)
FLT SYST					
1. <u>Preparation</u> (Contd)					
1.8 Type 8A test set.					
(a) Switch S1.			(i)	Set to 'TEST 1' and check servo indicator shows 01500 PLUS OR MINUS 00010.	
			(ii)	Set to 'TEST 2' and check servo indicator shows 00000 PLUS OR MINUS 00002.	
(b) Switch S2.			(iii)	Set to 'AP HEIGHT'.	
(c) Switch S3.				Set to 'TAS'.	
				Set to 'ROC'.	
1.9 Pitot/Static test set static pressure.				Adjust to prevailing Barometric Pressure (QFE).	
1.10 Height display unit.			(i)	Check pointer indicates zero PLUS OR MINUS 90 ft.	
			(ii)	Adjust as near as possible to zero.	
2. <u>Testing</u>					
2.1 Pitot/Static test set.				Set airspeed to 275 kt.	
2.2 Speed display.				Check indicates 275 kt and 0.425M.	
2.3 Type 8A test set.					
(a) 300 kt lamp.				Check lights at 275 PLUS OR MINUS 10 kt.	
(b) Meter M1.				Check indicates an increasing voltage. (Approximately 9V).	
2.4 Pitot/Static test set.				Set airspeed to 400 kt.	
2.5 Speed display.				Check indicates 400 kt and 0.625M.	
2.6 Type 8A test set 400 kt lamp.				Check lights at 400 PLUS OR MINUS 12 kt.	
SMS/30/453/15A			Continued		

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CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	503	CONTINUED	LIGHTNING		Section 1 (1st Edition)	
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)	
<p style="text-align: center;">FLT SYST</p> <p>2. <u>Testing</u> (Contd)</p> <p>2.7 Pitot/Static test set. Set Mach No to 0.98M.</p> <p>2.8 Speed display. Check indicates 611 kt and 0.98M.</p> <p>2.9 Type 8A test set 0.98M lamp. Check lights at 611 plus 5 minus 29 kt.</p> <p>2.10 Pitot/Static test set. Set airspeed to 700 kt.</p> <p>2.11 Speed display. Check indicates 700 kt and 1.06M.</p> <p>2.12 Type 8A test set 1.06M lamp. Check lights at 700 PLUS OR MINUS 20 kt.</p> <p>2.13 Pitot/Static test set. (i) Reduce airspeed to zero. (ii) Set height to 30000 ft.</p> <p>2.14 Height display. (i) Check indicates 30000 ft approximately. (ii) Check VSI indicates climb during ascent.</p> <p>2.15 Type 8A test set. (a) 30000 ft lamp. Check lights at 30000 PLUS OR MINUS 500 ft. (b) Servo indicator. Check shows 20547 approximately. (c) Switch S2. Set to VSI.</p> <p>2.16 Pitot/Static test set. Set height to 45000 ft.</p> <p>2.17 Height display unit. (i) Check indicates 45000 ft approximately. (ii) Check VSI indicates climb during ascent</p>						
SMS/80/453/16					Continued	

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