

CHAP	2	SP 113	SERVICING PROCEDURES				AP 101B-1000-5A3 E (Section 1 (1st Edition)				TIME	ACT		
TRADE	FLT SYST		LIGHTNING											
SHEET	1	OF	22	SHEET/S	3	5	6	AL	20	RAF Form 2988B (Revised Jan 78)				
TITLE	Firestreak Guided Weapon Pack Installation - Test									<b>SERVICING RECORD</b> Aircraft/Equipment Ser No: Date:				EST
Safety and Servicing Notes are to be complied with throughout the work detailed on this Card.														
<b>Special Tools and Equipment</b> Adapters Test Slaving (Plug Unit 70 Way, 10H/9320950). Post Command Mod/Firestreak/049 STC. Fire Control System Test Set 75T/9454979														
NB During this Procedure the ARM/SAFE switch is not to be set to 'ARM' before the 200 volts 400 Hz power supply is switched off.														
WEAPONS														
1. <u>Preparation</u> 1.1 ERUs. Ensure made SAFE.														
FLT SYST														
2. <u>Preparation</u> 2.1 Cockpit switches. (a) GW arming ) switch. ) (b) Master ) Set to 'OFF'. selector ) switch. ) (c) Single/Pairs Ensure set to 'SINGLES'. switch. (d) LFS/CRT Set to 'LFS'. switch. 2.2 Pylons. (a) Base Remove. fairings. (b) Butt (i) Clean. connectors. (ii) Examine. (See Fig 1). (c) Misfire Reset. indicators.														
3. <u>Fire Control System Test Set (Preparation)</u> 3.1 Horizontal/ Set to 'HORIZONTAL'. Vertical switches. 3.2 Pylon Set to 'SO'. selector switch.														
Continued														

Tradesman Man Hrs	Tradesman Initials	Brief Details of Suspected Defect and MOD F720 ORN/SNOW When Applicable	Supervisor Man Hrs	Supervisor Initials	ASSOCIATED PROCEDURE CARDS
1	2	3	4	5	
					ASSOCIATED TRADES
					SP NO

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	2	AL 18							
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>3. <u>Fire Control System Test Set (Preparation)</u> (Contd).</p> <p>3.3 Frequency controls. Set to '3 kHz'.</p> <p>3.4 Line selector. Set to 'LINE 1'.</p> <p>3.5 Function switch. Set to 'INSULN.LL'.</p> <p>3.6 Offset switch. )</p> <p>3.7 Error offset switch. ) Set to '0'.</p> <p>3.8 Power-to-aircraft switch. )</p> <p>3.9 Power-to-console switch. ) Set to 'OFF'.</p> <p>3.10 Insulation scan switch. Set to 'USE'.</p> <p>3.11 Signal phase switch. Set to 'REVERSE'.</p> <p>3.12 Pylon connectors. (i) Clean butt connectors. (ii) Fit to Pylons, ensuring 0.256 in. spacer washer is fitted on rear securing bolt. (iii) Connect to junction box.</p> <p>3.13 Bifurcated cable. Connect.</p> <p>3.14 70 way unitor plug. Remove.</p> <p>3.15 AI slaving cable. Connect in conjunction with adaptor test slaving.</p> <p>3.16 Control box. (i) Position in cockpit. (ii) Connect to junction box.</p>									
SMS/ 17A					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	3	AL 18			SERVICING RECORD				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					(1)	(2)	(3)	(4)	(5)
/ FLT SYST									
3. <u>Fire Control System Test Set (Preparation)</u> (Contd).									
3.17 All control box selector switches. Set to 'NOT SEE'.									
3.18 Control box headsets. Connect.									
4. <u>Safety Break</u>									
4.1 Armament safety break key. Remove.									
4.2 Ground arming link. Fit and operate.									
5. <u>Miscellaneous Supplies</u>									
5.1 28 volt d.c. supply. (i) Connect. (ii) Switch on.									
5.2 115V 2.4 kHz GPU. (i) Connect. (ii) Start. (iii) Adjust to 3000 rev/min. (iv) Switch on supply.									
6. <u>Ground Cooling</u>									
6.1 Trolley. (i) Connect. (ii) Start.									
7. <u>Insulation Checks</u>									
7.1 Power-to-Console switch. Set to 'ON'.									
7.2 Power-to-Console lamp. Ensure lit.									
7.3 Master armament switch. ) Set to 'ON'.									
7.4 Arming switch. )									
7.5 Stopwatch. Start.									
SMS/ 24					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3E	
SP NO	113	CONTINUED	LIGHTNING		Section 1	
SHEET	4	AL 18			(1st Edition)	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					AC NO . . . . . DATE . . . . .	
					SERVICING RECORD	
			(1)	(2)	(3)	(4) (5)
FLT SYST						
7.	Insulation Checks	(Contd)				
7.6	Armed time indicator.	Ensure operating.				
7.7	Arming panel.	(i) Ensure arming lamp is lit. (ii) Ensure armed lamp is flashing.				
7.8	Nose cover lamp.	Ensure lit.				
7.9	Control box Start lamps.	(i) Ensure extinguished (ii) Allow warm up period until M1 deflects.				
7.10	Insulation scan switch.	Set to 'ZERO'.				
7.11	Test set 1M control.	Adjust until M1 indicates 1 Mohm.				
7.12	Insulation scan switch.	Set to 'FSD'.				
7.13	Test set 4M control.	Adjust until M1 indicates 4 Mohms.				
NB:	During Sub-items 7.14 to 7.16 inclusive, if any M1 indication is less than 2 Mohms the test is to be discontinued and NCO informed.					
7.14	Insulation scan switch.	(i) Set to 'USE'. (ii) Check M1 indication.				
7.15	Function switch.	(i) Set to 'INSULN.LE'. (ii) Check M1 indication.				
7.16	Line selector.	(i) Set to 'LINE 2'. (ii) Check M1 indication.				
SMS / 24A			Continued			

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED		AC NO . . . . . DATE . . . . .				
SHEET	5	AL 23		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>8. <u>Line Resistance and 2 Minute Arming Test.</u></p> <p>8.1 Function switch. (i) Set to 'LINE RESISTANCE'. (ii) Check M1 indicates zero.</p> <p>8.2 Power-to-Aircraft switch. Set to 'ON'.</p> <p>8.3 Power-to- ) Aircraft lamp. ) Ensure lit.</p> <p>8.4 Pylon load lamp.)</p> <p>8.5 Arming panel. (i) Ensure arming lamp remains lit and armed lamp is extinguished. (ii) Ensure armed lamp lights after a period of between 1 minute 30 seconds and 2 minutes 15 seconds.</p> <p>NB: Sub-items 8.6 to 8.14 inclusive are to be carried out within the arming time. During Sub-items 8.6, 8.11 and 8.14, if there is no discernible deflection of M1 pointer the test is to be discontinued immediately and the Flt Syst NCO informed.</p> <p>8.6 Meter M1. Note voltage indication on Blue scale.</p> <p>8.7 Line selector. Set to 'LINE 1'.</p> <p>8.8 Meter M1. (i) Note voltage reading on blue scale and add to that noted in Sub-item 8.6. (ii) Ensure sum does not exceed 2.5 volts.</p> <p>8.9 Line selector. Set to 'LINE 2'.</p> <p>8.10 Pylon selector switch. Set to 'PO'.</p>								
SMS/ 2				Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED		AC NO . . . . . DATE . . . . .				
SHEET	6	AL 18		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>8. <u>Line Resistance and 2 Minute Arming Test (Contd).</u></p> <p>8.11 Voltage check. Repeat sub-items 8.6 to 8.8 inclusive.</p> <p>8.12 Function switch. Set to 'AGC'.</p> <p>8.13 Pylon selector switch. Set to 'PO' and 'SO' in turn and ensure meter M2 indicates zero at each position.</p> <p>NB: Item 9 is not to be commenced until the arming sequence actuated in Sub-item 8.5 is completed.</p> <p>9. <u>Target Detector and Fire Control Test.</u></p> <p>9.1 Function switch. Set to 'TARG DET'.</p> <p>9.2 PAS/LFS screen arming panel and CRT. Ensure PAD/LFS lamp, Event 1 and Event 2 indicators and Port and Starboard 'W' markers are not visible.</p> <p>9.3 Control box PO selector. Set to 'SEE'.</p> <p>9.4 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS Event 1 lamps and Port 'W' markers are lit.</p> <p>9.5 Control box PO selector. Set to 'NOT SEE'.</p> <p>9.6 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and Event 2 indicators and Port and Starboard 'W' markers are not visible.</p> <p>9.7 Control box SO selector. Set to 'SEE'.</p> <p>9.8 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp and Event 2 lamps and Starboard 'W' markers are lit.</p>								
SMS/ 2A				Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	7	AL 20							
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>9. <u>Target Detector and Fire Control Test (Contd)</u></p> <p>9.9 Control box SO selector. Set to 'NOT SEE'.</p> <p>9.10 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and Event 2 indicators, and Port and Starboard 'W' markers are not visible.</p> <p>9.11 Control box PO selector. )</p> <p>9.12 Control box SO selector. ) Set to 'SEE'.</p> <p>9.13 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and Event 2 lamps and Port and Starboard 'W' markers are lit.</p> <p>9.14 Singles/Pairs switch. Set to 'PAIRS'.</p> <p>NB. Sub-items 9.15 to 9.22 inclusive are applicable only to weapon packs pre SEM/FS/017/STC</p> <p>9.15 Weapon trigger. Operate and hold.</p> <p>9.16 'PO' and 'SO' Alt start lamps. Ensure light in sequence at intervals of approximately 1/2 second.</p> <p>9.17 Mag/Jet lamp. Ensure not lit.</p> <p>9.18 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and 2 indicators, and Port and Starboard 'W' markers are not visible.</p> <p>9.19 Weapon trigger. Release.</p> <p>9.20 Alt start lamps. )</p> <p>9.21 Mag/Jet lamp. ) Ensure extinguished.</p> <p>9.22 Misfire indicators. Ensure operated.</p>									
SMS/ 13					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED		AC NO . . . . . DATE . . . . .				
SHEET	8	AL 20		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>9. <u>Target Detector and Fire Control Test (Contd)</u></p> <p>NB. Sub-items 9.23 to 9.34 inclusive are applicable only to weapon packs post SEM/FS/017/STC</p> <p>9.23 Weapon trigger. Operate and hold.</p> <p>9.24 'SO' Alt start lamp. Ensure lit.</p> <p>9.25 'PO' Alt start lamp. Ensure not lit.</p> <p>9.26 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and Port 'W' marker extinguish for between 4 to 6 seconds and Event 2 and Starboard 'W' markers extinguish and remain extinguished.</p> <p>9.27 Weapon trigger. Release.</p> <p>9.28 Weapon trigger. Operate and hold</p> <p>9.29 'PO' Alt start lamp. Ensure lit.</p> <p>9.30 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and 2 indicators and Port and Starboard 'W' markers are not visible.</p> <p>9.31 Weapon trigger. Release.</p> <p>9.32 Alt start lamps.)</p> <p>9.33 Mag/Jet lamp. ) Ensure extinguished.</p> <p>9.34 Misfire indicators. Ensure operated.</p>								
18A				Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	9	AL 20							
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>10. <u>Scan Test (Pairs)</u></p> <p>10.1 Function switch. Set to 'PITCH SCAN'.</p> <p>10.2 Insulation scan switch. Set to 'ZERO'.</p> <p>10.3 Set 10V control. Adjust for M1 indication of 10V.</p> <p>10.4 Insulation scan switch. Set to 'FSD'.</p> <p>10.5 Set to 20V control. Adjust for M1 indication of 20V.</p> <p>10.6 Insulation scan switch. Set to 'USE'.</p> <p>10.7 Meter M1. Ensure indication is not greater than 10V.</p> <p>10.8 Pylon selector switch. Set to 'PO'.</p> <p>10.9 Meter M1. Ensure indication is not greater than 10V.</p> <p>10.10 Meter switch. Set to 'YAW SCAN'.</p> <p>10.11 Meter M1. Ensure indication is not greater than 10V.</p> <p>10.12 Pylon selector switch. Set to 'SO'.</p> <p>10.13 Meter M1. Ensure indication is not greater than 10V.</p> <p>10.14 Fire control reset switch. Operate.</p> <p>10.15 Meter M1. Ensure indication is between 15 and 19V.</p> <p>10.16 Pylon selector switch. Set to 'PO'.</p> <p>10.17 Meter M1. Ensure indication is between 15 and 19V.</p>									
SMS/ 19					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	10	AL 20			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									
10. <u>Scan Test (Pairs)</u> (Contd)									
10.18 Function switch. Set to 'PITCH SCAN'.									
10.19 Meter M1. Ensure indication is between 15 and 19V.									
10.20 Pylon selector switch. Set to 'SO'.									
10.21 Meter M1. Ensure indication is between 15 and 19V.									
11. <u>Scan Test (Singles)</u> .									
11.1 Singles/Pairs switch. Set to 'SINGLES'.									
11.2 Function switch. Set to 'TARGET DET'.									
11.3 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp and Event 1 and 2 lamps and Port and Starboard 'W' markers are lit.									
11.4 Weapons trigger. Operate and hold.									
11.5 SO Alt start lamp. Ensure lit.									
11.6 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS lamp, Event 1 and Port 'W' marker extinguish for between 4 and 6 seconds and Event 2 lamp and Starboard 'W' marker extinguish and remain extinguished.									
11.7 Weapons trigger. Release.									
11.8 Function switch. Set to 'PITCH SCAN'.									
11.9 Meter M1. Ensure indication is not greater than 10V.									
11.10 Function switch. Set to 'YAW SCAN'.									
11.11 Meter M1. Ensure indication is not greater than 10V.									
SMS/ 19A					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	11	AL 20							
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>11. <u>Scan Test (Singles)</u> (Contd)</p> <p>11.12 Pylon selector switch. Set to 'PO'.</p> <p>11.13 Meter M1. Ensure indication is between 15 and 19V.</p> <p>11.14 Function switch. Set to 'PITCH SCAN'.</p> <p>11.15 Meter M1. Ensure indication is between 15 and 19V.</p> <p>11.16 Function switch. Set to 'TARGET DET'.</p> <p>11.17 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS on and Event 1 lamps and Port 'W' markers are lit.</p> <p>11.18 Weapons trigger. Operate and hold.</p> <p>11.19 PO and SO Alt start lamps. Ensure lit.</p> <p>11.20 PAS/LFS screen, arming panel and CRT. Ensure PAS/LFS off, Event 1 and 2 lamps and Port and Starboard 'W' markers are extinguished.</p> <p>11.21 Weapons trigger. Release.</p> <p>11.22 Function switch. Set to 'PITCH SCAN'.</p> <p>11.23 Meter M1. Ensure indication is not greater than 10V.</p> <p>11.24 Function switch. Set to 'YAW SCAN'.</p> <p>11.25 Meter M1. Ensure indication is not greater than 10V.</p> <p>11.26 Fire control reset switch. Operate.</p> <p>11.27 Meter M1. Ensure indication is between 15 and 19V.</p> <p>11.28 Misfire indicators. Reset.</p>									
SMS/ 20					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	12	AL 20			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									
12. <u>AI Slaving Tests (Test 1)</u>									
12.1 Function switch. Set to 'AI PITCH'.									
12.2 Offset switch. Set to 'MINUS 5' degrees.									
12.3 Error offset switch. (i) Adjust for M2 indication nearest to zero.									
(ii) Ensure final error does not exceed 0.5 degrees.									
(iii) Set to '0' degrees.									
12.4 Offset switch. Set to 'MINUS 4' degrees.									
12.5 Error offset switch. (i) Adjust for M2 indication nearest to zero.									
(ii) Ensure final error does not exceed 0.35 degrees.									
(iii) Set to '0' degrees.									
12.6 Offset switch. (i) Set to 'MINUS 1', 'PLUS 1' and 'PLUS 4' degrees in turn and for each setting repeat Sub-item 12.5.									
(ii) Set to 'PLUS 5' degrees.									
12.7 Error offset switch. (i) Adjust for M2 indication nearest to zero.									
(ii) Ensure final error does not exceed 0.5 degrees.									
12.8 Offset switch. Set to 'PLUS 10' degrees.									
12.9 Meter M2. Ensure indicates in Green sector lower scale.									
SMS/ 20A					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED		AC NO . . . . . DATE . . . . .				
SHEET	13	AL 23		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>12. <u>AI Slaving Tests (Test 1) (Contd)</u></p> <p>12.10 Offset switch.           (i) Set to 'PLUS 15',   'MINUS 10' and   'MINUS 15' degrees   in turn and for   each setting repeat   Sub-item 12.9.    (ii) Set to '0' degrees.</p> <p>13. <u>AI Slaving Tests (Test 2)</u></p> <p>13.1 Signal Phase           Set to 'NORMAL'.       switch.</p> <p>13.2 Function switch.   Set to 'AI YAW'.</p> <p>13.3 Testing.           Repeat Sub-items 12.2                                      to 12.10 inclusive.</p> <p>14. <u>AI Slaving Tests (Test 3)</u></p> <p>14.1 Pylon selector       Set to 'SO'.       switch.</p> <p>14.2 Function switch.   Set to 'AI PITCH'.</p> <p>14.3 Testing.           Repeat Sub-items 12.2 to                                      12.10 inclusive.</p> <p>15. <u>AI Slaving Tests (Test 4)</u></p> <p>15.1 Signal Phase       Set to 'REVERSE'.       switch.</p> <p>15.2 Function switch.   Set to 'AI YAW'.</p> <p>15.3 Testing.           Repeat Sub-item 12.2 to                                      12.10 inclusive.</p> <p>▶ ◀</p>								
SMS/ 3				Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	14	AL 23							
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>NB 1: Items 16 to 19 inclusive are applicable only to packs with SEM/FS/015/STC embodied.</p> <p>NB 2: During Items 16 to 19 inclusive, if the indications on meter M2 are not within the limits specified, the 'error offset switch' is to be adjusted until the correct indication is obtained. If the correct indication still cannot be obtained set 'offset switch' to PLUS 4 degrees or MINUS 4 degrees as applicable and use the 'error offset switch' as required.</p> <p>16. <u>Depressed LFS Tests (Test1)</u></p> <p>16.1 Pylon selector switch. Set to 'P0'.</p> <p>16.2 Function switch. Set to 'AI PITCH'.</p> <p>16.3 Meter M2. Ensure indicates within green sector lower scale.</p> <p>16.4 LFS/CRT switch. Set to 'LFS D'.</p> <p>16.5 Meter M2. Ensure deflects fully right.</p> <p>16.6 Offset switch. Set to 'PLUS 5' degrees.</p> <p>16.7 Meter M2. Ensure indicates within green sector.</p> <p>16.8 LFS/CRT switch. Set to 'LFS'.</p> <p>16.9 Meter M2. Ensure indicates within green sector.</p> <p>16.10 Offset switch. Set to '0' degrees.</p> <p>17. <u>Depressed LFS Tests (Test 2)</u></p> <p>17.1 Signal phase switch. Set to 'NORMAL'.</p> <p>17.2 Function switch. Set to 'AI YAW'.</p> <p>17.3 Meter M2. Ensure indicates within green sector.</p> <p>17.4 Testing. Repeat Sub-items 16.4 to 16.10 inclusive.</p>									
					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section (1st Edition)				
SP NO	113	CONTINUED							
SHEET	15	AL 23			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>18. <u>Depressed LFS Tests (Test 3)</u></p> <p>18.1 Pylon selector switch. Set to 'SO'.</p> <p>18.2 Signal phase switch. Set to 'REVERSE'.</p> <p>18.3 Meter M2. Ensure indicates within green sector.</p> <p>18.4 LFS/CRT switch. Set to 'LFS D'.</p> <p>18.5 Meter M2. Ensure deflects fully left.</p> <p>18.6 Offset switch. Set to 'MINUS 5' degrees.</p> <p>18.7 Meter M2. Ensure indicates within green sector.</p> <p>18.8 LFS/CRT switch. Set to 'LFS'.</p> <p>18.9 Meter M2. Ensure indicates within green sector.</p> <p>18.10 Offset switch. Set to '0' degrees.</p> <p>19. <u>Depressed LFS Tests (Test 4)</u></p> <p>19.1 Signal phase switch. Set to 'NORMAL'.</p> <p>19.2 Function switch. Set to 'AI PITCH'.</p> <p>19.3 Meter M2. Ensure indicates within green sector.</p> <p>19.4 Testing. Repeat Sub-items 18.4 to 18.10 inclusive.</p>									
SMS / 4					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	16	AL 23							
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>20. <u>Cold Air checks</u></p> <p>20.1 Port and Starboard pylon connector boxes.</p> <p>(a) Air pressure gauge. Ensure indicates between 175 and 225 lbf/in2.</p> <p>(b) Red plunger. Depress.</p> <p>(c) Air pressure gauge. Ensure indication constant after initial fall and rise.</p> <p>(d) Red plunger. Release.</p> <p>21. <u>Load Shed and Mag/Jet Circuit Tests</u></p> <p>21.1 Function switch. Set to 'LOAD SHED MAG/JET'.</p> <p>21.2 PAS/LFS screen, arming panel and CRT. Examine PAS/LFS, Event 1 and Event 2 lamps and Port and Starboard 'W'. markers are lit.</p> <p>21.3 Pylon load lamp. Ensure lit.</p> <p>21.4 Weapons trigger. Operate and hold.</p> <p>21.5 SO Alt start lamp. Ensure lit.</p> <p>21.6 Shed switch. Operate.</p> <p>21.7 Mag/Jet lamp. Ensure lights momentarily.</p> <p>21.8 SO Alt start lamp. Ensure extinguished.</p> <p>21.9 Port acquisition lamp. Ensure extinguishes for 4 to 6 seconds.</p> <p>21.10 Pylon load lamp. Ensure extinguished.</p> <p>21.11 Weapons trigger. Release.</p> <p>21.12 Starboard pylon connector box.</p> <p>(i) Vent pressure to zero.</p> <p>(ii) Ensure pressure gauge continues to indicate zero.</p>									

Continued

SMS 17A

SMS/4A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	17	AL 23			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 align="center">FLT SYST</p> <p>21. <u>Load Shed and Mag/Jet Circuit Tests (Contd)</u></p> <p>21.13 Misfire indicators. (i) Ensure Starboard indicator has operated. (ii) Ensure Port indicator has not operated. (iii) Reset Starboard indicator.</p> <p>21.14 Pylon selector switch. Set to 'PO'.</p> <p>21.15 Pylon load lamp. Ensure lit.</p> <p>21.16 Shed switch. Operate.</p> <p>21.17 Pylon load lamp.) 21.18 Power-to- ) Ensure extinguished. Aircraft lamp. )</p> <p>21.19 Arming panel. (i) Ensure 'ARMING' lamp lit. (ii) Ensure 'ARMED' lamp flashing.</p> <p>21.20 'ARMING' switch.) 21.21 Master Armament ) Set to 'OFF'. selector. )</p> <p>21.22 Arming panel. (i) Ensure 'ARMING' lamp extinguished. (ii) Ensure 'ARMED' lamp extinguished.</p> <p>21.23 Nose cover lamp. Ensure extinguished.</p> <p>21.24 Armed time indicator. Reset to zero.</p> <p>21.25 Master Armament selector. Set to 'GW'.</p> <p>21.26 Arming switch. Set to 'ON'.</p>									
SMS/5					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition).				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	18	AL 23			SERVICING RECORD				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					(1)	(2)	(3)	(4)	(5)
<p align="center">FLT SYST</p> <p>21. <u>Load Shed and Mag/Jet Circuit Tests (Contd)</u></p> <p>21.27 'ARMING' lamp. )</p> <p>21.28 Arming indicator )</p> <p>                          lamp. )</p> <p>21.29 Pylon load lamp.) Ensure lit.</p> <p>21.30 Power-to- )</p> <p>                  Aircraft lamp. )</p> <p>21.31 Nose cover lamp.)</p> <p>NB: Sub-item 21.32 is not to be commenced until the arming period initiated in Sub-item 21.26 is completed and the 'ARMED' lamp lit.</p> <p>21.32 Control box SO Set to 'NOT SEE'.</p> <p>          SEE/NOT SEE</p> <p>          switch.</p> <p>21.33 PAS/LFS screen, Ensure PAS/LFS, Event 1</p> <p>          arming panel lamp and Port 'W' marker</p> <p>          and CRT. lit.</p> <p>21.34 Weapons trigger. Operate and hold.</p> <p>21.35 Control box PO Ensure lit.</p> <p>          Alt start lamp.</p> <p>21.36 Shed switch. Operate.</p> <p>21.37 Mag/jet lamp. Ensure lit momentarily.</p> <p>21.38 Control box PO )</p> <p>          Alt start lamp. ) Ensure extinguished.</p> <p>21.39 Pylon load lamp.)</p> <p>21.40 Weapons trigger. Release.</p> <p>21.41 Port pylon connector. (i) Vent pressure to zero.</p> <p>                                 (ii) Ensure gauge continues to indicate zero pressure.</p> <p>21.42 Misfire indicators. (i) Ensure Port indicator operated.</p> <p>                                 (ii) Ensure Starboard indicator not operated.</p> <p>                                 (iii) Reset Port indication.</p>									
SMS/SA					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	19	AL 23			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>22. <u>Altitude Gain Control Unit Checks (Test 1)</u></p> <p>22.1 Function switch. Set to 'AGC'.</p> <p>22.2 Meter M1. Check that indication is between 9 and 5 in. Hg.</p> <p>22.3 Leak tester. (i) Connect to LSU static test point. (ii) Set to 'SUCTION TO STATIC'. (iii) Operate pump until meter M1 indicates 20 in. Hg.</p> <p>22.4 Pylon selector switch. Set to 'P0'.</p> <p>22.5 Meter M1. Check indication is 20 in. Hg.</p> <p>22.6 Pylon selector switch. Set to 'S0'.</p> <p>22.7 Leak test selector. Set to 'RELEASE' and reduce vacuum until Meter M1 indicates 5 in. Hg.</p> <p>22.8 AGC switch. Set to 'RELAY SET' and hold.</p> <p>22.9 AGC set control. (i) Adjust clockwise until meter M2 indicates zero. (ii) Continue clockwise adjustment until meter M2 suddenly deflects.</p> <p>22.10 Meter M2. Ensure indicates within Green sector.</p> <p>22.11 AGC switch. Set to 'RELAY'.</p> <p>22.12 Meter M2. Ensure pointer remains steady.</p> <p>22.13 AGC switch. Set to 'RELAY SET' and hold.</p>									
SMS/6					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)		
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .		
SHEET	20	AL 23	Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		SERVICING RECORD		
					(1)	(2)	(3)
FLT SYST							
22. <u>Altitude Gain Control Unit Checks (Test 1)</u> (Contd)							
22.14 AGC set control. (i) Adjust anti-clockwise until meter M2 indicates zero.							
(ii) Continue anti-clockwise adjustment until meter M2 suddenly deflects.							
22.15 Meter M2. Ensure indicates within Green sector.							
22.16 AGC switch. Set to 'RELAY'.							
22.17 Meter M2. Ensure pointer remains steady.							
23. <u>Altitude Gain Controls Unit Check (Test 2)</u>							
23.1 Pylon selector switch. Set to 'P0'.							
23.2 Testing. Repeat Sub-items 22.8 to 22.17 inclusive.							
23.3 Leak tester. (i) Set to 'RELEASE'.							
(ii) Reduce vacuum to zero.							
(iii) Disconnect and stow							
24. <u>General</u>							
24.1 Master armament switch. ) Set to 'OFF'.							
24.2 Arming switch. )							
24.3 Arming panel. Ensure all lamps extinguished.							
24.4 Weapons trigger. Set to 'SAFE'.							
24.5 FLS switch. Set to 'CRT'.							
SMS/6A			Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	21	AL 23			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>25. <u>General</u></p> <p>25.1 Armament safety break key. Fit.</p> <p>25.2 Ground arming link. Remove.</p> <p>25.3 Misfire indicator. Reset.</p> <p>25.4 Fire control system test set.  (a) Power-to- Aircraft switch. )  (b) Power-to- Console switch. )  Set to 'OFF'.</p> <p>25.5 115V 2.4 kHz GPU. (i) Set to 'OFF'.  (ii) Stop engine.  (iii) Disconnect from fire control system test set.</p> <p>25.6 28V d.c. supply.) (i) Set to 'OFF'.  25.7 Ground cooling trolley. ) (ii) Disconnect.</p> <p>25.8 Armament installation test set cables. (i) Disconnect.  (ii) Stow.</p> <p>25.9 AI slaving cable and adapter. Remove.</p> <p>25.10 AI 70 way UNITOR test plug. Replace.</p> <p>25.11 GW pack test points. Close protective caps.</p> <p>25.12 Pylon connectors. (i) Remove.  (ii) Stow.</p> <p>25.13 Pylon base fairings. Fit.</p>									
SMS / 7 STC					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	113	CONTINUED	LIGHTNING		Section 1	
SHEET	13	AL 20			(1st Edition)	
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					AC NO . . . . . DATE . . . . .	
					SERVICING RECORD	
			(1)	(2)	(3)	(4) (5)
<p>FLT SYST</p> <p>12. <u>AI Slaving Tests (Test 1)</u> (Contd)</p> <p>12.10 Offset switch. (i) Set to 'PLUS 15', 'MINUS 10' and 'MINUS 15' degrees in turn and for each setting repeat Sub-item 12.9.</p> <p>(ii) Set to '0' degrees.</p> <p>13. <u>AI Slaving Tests (Test 2)</u></p> <p>13.1 Signal Phase Set to 'NORMAL' switch.</p> <p>13.2 Function switch. Set to 'AI YAW'.</p> <p>13.3 Testing. Repeat Sub-items 12.2 to 12.10 inclusive.</p> <p>14. <u>AI Slaving Tests (Test 3)</u></p> <p>14.1 Pylon selector Set to 'SO' switch.</p> <p>14.2 Function switch. Set to 'AI PITCH'.</p> <p>14.3 Testing. Repeat Sub-items 12.2 to 12.10 inclusive.</p> <p>15. <u>AI Slaving Tests (Test 4)</u></p> <p>15.1 Signal Phase Set to 'REVERSE' switch.</p> <p>15.2 Function switch. Set to 'AI YAW'.</p> <p>15.3 Testing. Repeat Sub-item 12.2 to 12.10 inclusive.</p> <p>NB: Items 16 to 19 inclusive are applicable only to packs fitted with SE400 Post SEM/FS/014/STC.</p> <p>16. <u>Depressed LFS Tests (Test 1)</u></p> <p>16.1 Pylon selector Set to 'PO' switch.</p>						
SMS/ 21			Continued			

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	14	AL 20							
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>16. <u>Depressed LFS Tests (Test 1) (Contd)</u></p> <p>16.2 Function switch. Set to 'AI PITCH'.</p> <p>16.3 Meter M2. Ensure indicates within green sector lower scale.</p> <p>16.4 LFS/CRT switch. Set to 'LFS D'.</p> <p>16.5 Meter M2. Ensure deflects fully right.</p> <p>16.6 Offset switch. Set to 'PLUS 5' degrees.</p> <p>16.7 Meter M2. Ensure indicates within green sector.</p> <p>16.8 LFS/CRT switch. Set to 'LFS'.</p> <p>16.9 Meter M2. Ensure indicates within green sector.</p> <p>16.10 Offset switch. Set to '0' degrees.</p> <p>17. <u>Depressed LFS Tests (Test 2)</u></p> <p>17.1 Signal phase switch. Set to 'NORMAL'.</p> <p>17.2 Function switch. Set to 'AI YAW'.</p> <p>17.3 Meter M2. Ensure indicates within green sector.</p> <p>17.4 Testing. Repeat Sub-items 16.4 to 16.10 inclusive.</p> <p>18. <u>Depressed LFS Tests (Test 3)</u></p> <p>18. Pylon selector switch. Set to 'SO'.</p> <p>18.2 Signal phase switch. Set to 'REVERSE'.</p> <p>18.3 Meter M2. Ensure indicates within green sector.</p> <p>18.4 LFS/CRT switch. Set to 'LFS D'.</p>									
SMS/ 21A					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	16	AL 20	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									
21. Load Shed and Mag/Jet Circuit Tests (Contd)									
21.2 PAS/LFS screen, arming panel and CRT. Examine PAS/LFS, Event 1 and Event 2 lamps and Port and Starboard 'W'. markers are lit.									
21.3 Pylon load lamp. Ensure lit.									
21.4 Weapons trigger. Operate and hold.									
21.5 SO Alt start lamp. Ensure lit.									
21.6 Shed switch. Operate.									
21.7 Mag/Jet lamp. Ensure lights momentarily.									
21.8 SO Alt start lamp. Ensure extinguished.									
21.9 Port acquisition lamp. Ensure extinguishes for 4 to 6 seconds.									
21.10 Pylon load lamp. Ensure extinguished.									
21.11 Weapons trigger. Release.									
21.12 Starboard pylon connector box. (i) Vent pressure to zero. (ii) Ensure pressure gauge continues to indicate zero.									
21.13 Misfire indicators. (i) Ensure Starboard indicator has operated. (ii) Ensure Port indicator has not operated. (iii) Reset Starboard indicator.									
21.14 Pylon selector switch. Set to 'PO'.									
21.15 Pylon load lamp. Ensure lit.									
SMS/ 22A			Continued						

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	17	AL 20			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>21. <u>Load Shed and Mag/Jet Circuit Tests</u> (Contd).</p> <p>21.16 Shed switch.                      Operate.</p> <p>21.17 Pylon load lamp.)</p> <p>21.18 Power-to-                      )    Ensure extinguished.</p> <p>      Aircraft lamp.                )</p> <p>21.19 Arming panel.                (i)    Ensure 'ARMING'</p> <p>   lamp lit.</p> <p>   (ii)   Ensure 'ARMED'</p> <p>   lamp flashing.</p> <p>21.20 'ARMING' switch.)</p> <p>21.21 Master Armament )    Set to 'OFF'.</p> <p>      selector.                      )</p> <p>21.22 Arming panel.                (i)    Ensure 'ARMING'</p> <p>   lamp extinguished.</p> <p>   (ii)   Ensure 'ARMED'</p> <p>   lamp extinguished.</p> <p>21.23 Nose cover lamp.            Ensure extinguished.</p> <p>21.24 Armed time                    Reset to zero.</p> <p>      indicator.</p> <p>21.25 Master Armament            Set to 'GW'.</p> <p>      selector.</p> <p>21.26 Arming switch.              Set to 'ON'.</p> <p>21.27 'ARMING' lamp.            )</p> <p>21.28 Arming indicator)            )</p> <p>      lamp.                            )</p> <p>21.29 Pylon load lamp.)            Ensure lit.</p> <p>21.30 Power-to-                      )</p> <p>      Aircraft lamp.                )</p> <p>21.31 Nose cover lamp.)</p> <p>NB:    Sub-item 21.32 is not to be commenced until          the arming period initiated in Sub-item          21.26 is completed and the 'ARMED' lamp lit.</p> <p>21.32 Control box SO              Set to 'NOT SEE'.</p> <p>      SEE/NOT SEE</p> <p>      switch.</p>									
SMS/ 23					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	18	AL 20							
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>21. <u>Load Shed and Mag/Jet Circuit Tests (Contd)</u></p> <p>21.33 PAS/LFS screen,      Ensure PAS/LFS, Event 1 arming panel              lamp and Port 'W' marker and CRT.                      lit.</p> <p>21.34 Weapons trigger.      Operate and hold.</p> <p>21.35 Control box PO        Ensure lit. Alt start lamp.</p> <p>21.36 Shed switch.        Operate.</p> <p>21.37 Mag/jet lamp.        Ensure lit momentarily.</p> <p>21.38 Control box PO ) Alt start lamp. )      Ensure extinguished.</p> <p>21.39 Pylon load lamp.)</p> <p>21.40 Weapons trigger.      Release.</p> <p>21.41 Port pylon            (i) Vent pressure to connector.                  zero.                                   (ii) Ensure gauge                                   continues to                                   indicate zero                                   pressure.</p> <p>21.42 Misfire                (i) Ensure Port indicators.                  indicator operated.                                   (ii) Ensure Starboard                                   indicator not                                   operated.                                   (iii) Reset Port                                   indication.</p> <p>22. <u>Altitude Gain Control Unit Checks (Test 1)</u></p> <p>22.1 Function switch.      Set to 'AGC'.</p> <p>22.2 Meter M1.              Check that indication is                                   between 9 and 5 in. Hg.</p> <p>22.3 Leak tester.            (i) Connect to LSU                                   static test point.                                   (ii) Set to 'SUCTION TO                                   STATIC'.                                   (iii) Operate pump until                                   meter M1 indicates                                   20 in. Hg.</p>									
SMS/ 23A					Continued				

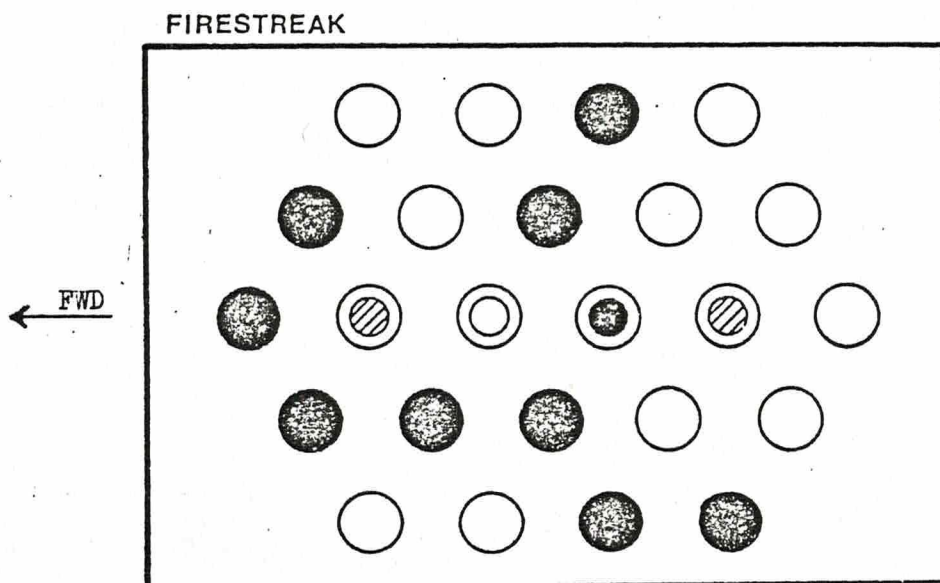
CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	19	AL 20			AC NO . . . . . DATE . . . . .				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERVICING RECORD				
					(1)	(2)	(3)	(4)	(5)
<p style="text-align: center;">. FLT SYST</p> <p>22. <u>Altitude Gain Control Unit Checks (Test 1)</u> (Contd)</p> <p>22.4 Pylon selector switch. Set to 'PO'.</p> <p>22.5 Meter M1. Check indication is 20 in. Hg.</p> <p>22.6 Pylon selector switch. Set to 'SO'.</p> <p>22.7 Leak test selector. Set to 'RELEASE' and reduce vacuum until Meter M1 indicates 5 in. Hg.</p> <p>22.8 AGC switch. Set to 'RELAY SET' and hold.</p> <p>22.9 AGC set control. (i) Adjust clockwise until meter M2 indicates zero. (ii) Continue clockwise adjustment until meter M2 suddenly deflects.</p> <p>22.10 Meter M2. Ensure indicates within Green sector.</p> <p>22.11 AGC switch. Set to 'RELAY'.</p> <p>22.12 Meter M2. Ensure pointer remains steady.</p> <p>22.13 AGC switch. Set to 'RELAY SET' and hold.</p> <p>22.14 AGC set control. (i) Adjust anti-clockwise until meter M2 indicates zero. (ii) Continue anti-clockwise adjustment until meter M2 suddenly deflects.</p>									
SMS/ 24					Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section I (1st Edition)		
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .		
SHEET	20	AL 20			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>22.    <u>Altitude Gain Control Unit Checks (Test 1)</u>          (Contd)</p> <p>22.15 Meter M2.                 Ensure indicates within Green sector.</p> <p>22.16 AGC switch.              Set to 'RELAY'.</p> <p>22.17 Meter M2.                 Ensure pointer remains steady.</p> <p>23.    <u>Altitude Gain Controls Unit Check (Test 2)</u></p> <p>23.1 Pylon selector          Set to 'PO'. switch.</p> <p>23.2 Testing.                   Repeat Sub-items 22.8 to 22.17 inclusive.</p> <p>23.3 Leak tester.              (i)    Set to 'RELEASE'.                                       (ii) Reduce vacuum to zero.                                       (iii) Disconnect and stow</p> <p>24.    <u>General</u></p> <p>24.1 Master armament ) switch.                   ) Set to 'OFF'.</p> <p>24.2 Arming switch.        )</p> <p>24.3 Arming panel.            Ensure all lamps extinguished.</p> <p>24.4 Weapons trigger.       Set to 'SAFE'.</p> <p>24.5 FLS switch.              Set to 'CRT'.</p> <p>25.    <u>General</u></p> <p>25.1 Armament safety       Fit. break key.</p> <p>25.2 Ground arming         Remove. link.</p> <p>25.3 Misfire                 Reset. indicator.</p>							
SMS/ 24A			Continued				

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	113	CONTINUED							
SHEET	21	AL 20			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>25. <u>General</u> (Contd)</p> <p>25.4 Fire control system test set.</p> <p>(a) Power-to- ) Aircraft ) switch. ) Set to 'OFF'.</p> <p>(b) Power-to- ) Console ) switch. )</p> <p>25.5 115V 2.4 kHz GPU. (i) Set to 'OFF'. (ii) Stop engine. (iii) Disconnect from fire control system test set.</p> <p>25.6 28V d.c. supply.) (i) Set to 'OFF'.</p> <p>25.7 Ground cooling ) (ii) Disconnect. trolley. )</p> <p>25.8 Armament installation (i) Disconnect. (ii) Stow. test set cables.</p> <p>25.9 AI slaving cable and adapter. Remove.</p> <p>25.10 AI 70 way UNITOR test plug. Replace.</p> <p>25.11 GW pack test points. Close protective caps.</p> <p>25.12 Pylon connectors. (i) Remove. (ii) Stow.</p> <p>25.13 Pylon base fairings. Fit.</p>									
SMS/ 25					Continued				

SMS 17A

CHAP	2	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3E Section 1 (1st Edition)		
SP NO	113	CONTINUED			AC NO . . . . . DATE . . . . .		
SHEET	22	AL 20	Safety and Servicing Notes are to be complied with throughout the work detailed on this card.		SERVICING RECORD		
					(1)	(2)	(3)



- NO PITTING PERMISSABLE
- ▨ SLIGHT PITTING PERMISSABLE
- MUST BE CLEAN

FIG 1

FIRESTREAK pylon connector



10/10/10 10/10/10 10/10/10

10/10/10 10/10/10 10/10/10



This file was downloaded  
from the RTFM Library.

Link: [www.scottbouch.com/rtfm](http://www.scottbouch.com/rtfm)

Please see site for usage terms,  
and more aircraft documents.

ENGINE  
INHIBITED  
DO NOT  
TURN  
PROP