

CHAP	5	SP 506		SERVICING PROCEDURES				AP 101B-1000-5A3 E (Section 1 (1st Edition))				TIME	ACT	
TRADE	FLT SYST		LIGHTNING											
SHEET	1	OF	16	SHEET/S		3		5	6	AL NO	12	DATE		EST
TITLE	FCS Computer Type 'D'								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. Test Set Pitot/Static Mk 4 or 5. Test Set Mk 2 MRG 1st Line. Test Set Type 391 ILS.														
NB This Procedure is applicable only if a serviceable component is replaced in a known serviceable system. ▶◀  <div style="text-align: center;">FLT SYST</div> <ol style="list-style-type: none"> <li>1. <u>Preparation</u> <ol style="list-style-type: none"> <li>1.1 Pitot/Static test set. Connect to aircraft.</li> <li>1.2 Type 8A test set.               <ol style="list-style-type: none"> <li>(i) Connect to aircraft test socket J, F and L.</li> <li>(ii) Connect to test socket FC5 and FCC.</li> </ol> </li> <li>1.3 MRG Mk 2 1st line test set. Connect to electronic unit test socket Q.</li> <li>1.4 External power supplies. (A.c. and d.c.).               <ol style="list-style-type: none"> <li>(i) Connect to aircraft.</li> <li>(ii) Set to 'ON'.</li> </ol> </li> <li>1.5 Instrument master switch. }               <li>1.6 MRG On/Off switch. } Set to 'ON'.               <li>1.7 PCU master switch. }</li> <li>1.8 Height display unit. Set to zero ft.</li> <li>1.9 Type 8A test set. Set to 'AP HEIGHT'.</li> </li></li></ol> </li> </ol>														
SMS/80/453/19									Continued				SP NO	506

CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E				
SP NO	506	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)
<p align="center">FLT SYST</p> <p>1. <u>Preparation</u> (Contd)</p> <p>1.10 ILS test set (i) Position as near to localizer aerials as possible Type 391. (ii) Connect supply ensuring correct polarity.</p> <p>2. <u>Interlock Checks</u></p> <p>2.1 Pilots control unit. (PCU). (a) Master switch. } Set to 'OFF'. (b) Stab switch. }</p> <p>2.2 FD/AP switch. Set to 'OFF'.</p> <p>2.3 PCU. (a) Supplies M1. } Ensure show Off. (b) Mode M1. }</p> <p>2.4 FD bead. Ensure in parking position.</p> <p>2.5 PCU. (a) Master switch. (i) Set to 'ON'. (ii) Allow 3 minutes to warm up. (b) Supplies M1. Ensure shows Black. (c) Mode M1. Ensure shows Off.</p> <p>2.6 FD bead. Ensure in parking position.</p> <p>2.7 PCU attitude switch. Select.</p> <p>2.8 FD/AP switch. Set to 'AP'.</p> <p>2.9 PCU. (a) Supplies M1. } Ensure show Off. (b) Mode M1. }</p> <p>2.10 FD bead. Ensure in parking position.</p>									
SMS/80/453/19A					Continued				

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CHAP	5	FLIT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	506	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)	
FLIT SYST						
2. <u>Interlock Checks</u> (Contd)						
2.11 PCU.						
(a) Stab switch. Set to 'STAB'.						
(b) Supplies } Ensure show Off.						
M1. } Note: Mode M1 fitted to						
(c) Mode M1. } Type B PCU is to						
show Auto.						
2.12 FD bead. Ensure in parking						
position.						
Note: Bead is to move to						
centre if Type B						
PCU is fitted.						
2.13 PCU.						
(a) Master switch. } Set to 'OFF'.						
(b) Stab switch. }						
2.14 FD/AP switch. (i) Set to 'OFF'.						
(ii) Set to 'AP'.						
2.15 PCU.						
(a) Stab switch. Set to 'STAB'.						
(b) Master switch. Set to 'ON'.						
(c) Supplies M1. ) Ensure show Off.						
(d) Mode M1. )						
2.16 FD bead. Ensure in parking						
position.						
2.17 PCU.						
(a) Stab switch. ) Set to 'OFF'.						
(b) Master switch. )						
2.18 FD/AP switch. Ensure set to 'AP'.						
2.19 PCU.						
(a) Master switch. Set to 'ON'.						
(b) Stab switch. Set to 'STAB'.						
(c) Supplies M1. ) Ensure show Off.						
(d) Mode M1. )						
2.20 FD bead. Ensure in parking						
position.						
SMS/80/453/20					Continued	

CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E	
SP NO	506	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)	
<p style="text-align: center;">FLT SYST</p> <p>2. <u>Interlock Checks</u> (Contd)</p> <p>2.21 PCU.</p> <p style="margin-left: 40px;">(a) Master switch. ) Set to 'OFF'.</p> <p style="margin-left: 40px;">(b) Stab switch. )</p> <p>2.22 FD/AP switch. Set to 'OFF'.</p> <p>2.23 PCU stab switch. Set to 'STAB'.</p> <p>2.24 FD/AP switch. Set to 'AP'.</p> <p>2.25 PCU.</p> <p style="margin-left: 40px;">(a) Master switch. Set to 'ON'.</p> <p style="margin-left: 40px;">(b) Supplies M1. ) Ensure show Off.</p> <p style="margin-left: 40px;">(c) Mode M1. )</p> <p>2.26 FD bead. Ensure in parking position.</p> <p>2.27 PCU.</p> <p style="margin-left: 40px;">(a) Stab switch. )</p> <p style="margin-left: 40px;">(b) Master switch. ) Set to 'OFF'.</p> <p>2.28 FD/AP switch. Set to 'OFF'.</p> <p>2.29 PCU.</p> <p style="margin-left: 40px;">(a) Stab switch. Set to 'STAB'.</p> <p style="margin-left: 40px;">(b) Master switch. Set to 'ON'.</p> <p>2.30 FD/AP switch. Set to 'AP'.</p> <p>2.31 PCU.</p> <p style="margin-left: 40px;">(a) Supplies M1. ) Ensure show Off.</p> <p style="margin-left: 40px;">(b) Mode M1. )</p> <p>2.32 FD bead. Ensure in parking position.</p> <p>2.33 PCU.</p> <p style="margin-left: 40px;">(a) Stab switch. )</p> <p style="margin-left: 40px;">(b) Master switch. ) Set to 'OFF'.</p> <p>2.34 FD/AP switch. Set to 'OFF'.</p>						
SMS/453/20A					Continued	

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CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E				
SP NO	506	CONTINUED			Section 1 (1st Edition)				
SHEET	5	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>Interlock Checks</u> (Contd)</p> <p>2.35 PCU.</p> <p style="padding-left: 20px;">(a) Master switch. Set to 'ON'.</p> <p style="padding-left: 20px;">(b) Stab switch. Set to 'STAB'.</p> <p>2.36 FD/AP switch. Set to 'AP'.</p> <p>2.37 PCU.</p> <p style="padding-left: 20px;">(a) Supplies M1. Ensure shows Black.</p> <p style="padding-left: 20px;">(b) Mode M1. Ensure shows Auto.</p> <p style="padding-left: 20px;">(c) Attitude switch. Ensure cannot be cancelled by depressing.</p> <p>2.38 FD bead. Ensure moves to centre of presentation.</p> <p>2.39 FD/AP switch. Set to 'OFF'.</p> <p>2.40 PCU glide switch. Ensure cannot be selected.</p> <p>2.41 FD bead. Ensure moves to parking position.</p> <p>2.42 PCU.</p> <p style="padding-left: 20px;">(a) Track switch. Select.</p> <p style="padding-left: 20px;">(b) Attitude switch. Ensure cancels.</p> <p style="padding-left: 20px;">(c) Height switch. Select.</p> <p style="padding-left: 20px;">(d) Track switch. Ensure cancels.</p> <p>2.43 FD/AP switch. Set to 'AP'.</p>									
SMS/80/453/21					Continued				



CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	506	CONTINUED	LIGHTNING		Section 1	
SHEET	6	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>2. <u>Interlock Checks</u> (Contd)</p> <p>2.44 PCU.</p> <p>(a) Heading switch. (i) Select. (ii) Cancel.</p> <p>(b) Climb switch. } Ensure cannot be (c) Attitude switch. } selected by depressing. (d) Glide switch. }</p> <p>(e) Track switch. Select. (f) Height switch. Ensure cancels.</p> <p>(g) Climb switch. } (h) Attitude switch. } Ensure cannot be (j) Height switch. } selected by depressing. (k) Heading switch. }</p> <p>(l) Glide switch. Select. (m) Track switch. Ensure remains selected.</p> <p>(n) Climb switch. } (p) Attitude switch. } Ensure cannot be selected (q) Height switch. } by depressing. (r) Heading switch. }</p> <p>2.45 FD/AP switch. Set to 'OFF'.</p>						
SMS/80/453/21A			Continued			

CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	506	CONTINUED	LIGHTNING		Section 1	
SHEET	7	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 align="center">FLT SYST</p> <p>2. <u>Interlock Checks</u> (Contd)</p> <p>2.46 PCU.</p> <p>(a) Glide switch. Ensure cancelled.</p> <p>(b) Track switch. Ensure remains selected.</p> <p>(c) Heading switch. Select.</p> <p>(d) Height switch. Ensure selects automatically.</p> <p>(e) Track switch. Ensure cancels.</p> <p>2.47 FD/AP switch. Set to 'FD'.</p> <p>2.48 PCU.</p> <p>(a) Climb switch. ) Ensure cannot be selected by depressing.</p> <p>(b) Attitude switch. )</p> <p>(c) Glide switch. )</p> <p>(d) Heading switch. (i) Cancel using keylip.</p> <p>(d) Heading switch. (ii) Reselect.</p> <p>(e) Mode M1. Ensure shows 'DIR'.</p> <p>(f) Master switch. ) Set to 'OFF'.</p> <p>(g) Stab switch. )</p> <p>2.49 FD/AP switch. Set to 'OFF'.</p> <p>2.50 PCU.</p> <p>(a) Supplies M1. ) Ensure show Off.</p> <p>(b) Mode M1. )</p> <p>2.51 FD bead. Ensure in parking position.</p> <p>3. <u>Functional Test</u></p> <p>3.1 PCU.</p> <p>(a) Master switch. Set to 'ON'.</p> <p>(b) Stab switch. Set to 'STAB'.</p> <p>(c) Attitude switch. Select.</p> <p>3.2 FD/AP switch. Set to 'AP'.</p>						
SMS/80/453/22					Continued	



CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E				
SP NO	506	CONTINUED			Section 1				
SHEET	8	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>3. <u>Functional Test</u> (Contd)</p> <p>3.3 PCU.</p> <p>(a) Supplies M1.    Ensure shows Black.</p> <p>(b) Mode M1.        Ensure shows Auto.</p> <p>3.4 FD bead.        Ensure at centre of presentation.</p> <p>3.5 'G' test switch.    Set to '3G' position.</p> <p>3.6 PCU.</p> <p>(a) Supplies M1.    ) Ensure show Off.</p> <p>(b) Mode M1.        )</p> <p>3.7 FD bead.        Ensure in parking position.</p> <p>3.8 'G' test switch.    Set to 'NORMAL'.</p> <p>3.9 PCU.</p> <p>(a) Stab switch.) Set to 'OFF'.</p> <p>(b) Master switch.)</p> <p>3.10 FD/AP switch.    Set to 'OFF'.</p> <p>3.11 PCU master switch.    Set to 'ON'.</p> <p>3.12 Type 8A test set.</p> <p>(a) Roll rate gyro switch.    Select.</p> <p>(b) M2 measure switch.    Set to 'RG ROLL'.</p> <p>(c) Deflect increase switch.    Set to 'MAX'.</p> <p>(d) Precess rate gyro switch.    Operate.</p> <p>(e) Meter M2.        Note indication.</p> <p>3.13 PCU stab switch.    Set to 'STAB'.</p> <p>3.14 Type 8A test set.</p> <p>(a) Precess rate gyro switch.    Operate.</p> <p>(b) Meter M2.        Ensure indication decreases from that noted in Sub-item 3.12.</p> <p>Note: Reverse sense indication is acceptable</p>									
SMS/80/453/22A					Continued				

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CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E				
SP NO	506	CONTINUED			Section 1 (1st Edition)				
SHEET	9	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>3. <u>Functional Test</u> (Contd)</p> <p>3.15 PCU stab switch. Set to 'OFF'.</p> <p>3.16 Type 8A test set.  (a) Yaw rate gyro switch. Select.  (b) M2 measure switch. Set to 'RG YAW'.  (c) Precess rate gyro switch. Operate.  (d) Meter M2. Note indication.</p> <p>3.17 PCU stab switch. Set to 'STAB'.</p> <p>3.18 Type 8A test set.  (a) Precess rate gyro switch. Operate.  (b) Meter M2. Ensure indication decreases from that noted in Sub-item 3.16.</p> <p>3.19 PCU Stab switch. Set to 'OFF'.</p> <p>3.20 Type 8A test set.  (a) Pitch rate gyro switch. Select.  (b) M2 measure switch. Set to 'RG PITCH'.  (c) Precess rate gyro switch. Operate.  (d) Meter M2. Note indication.</p> <p>3.21 PCU stab switch. Set to 'STAB'.</p> <p>3.22 Type 8A test set.  (a) Precess rate gyro switch. Operate.  (b) Meter M2. Ensure indication reduces from that noted in Sub-item 3.20.</p> <p>3.23 Navigation display unit.  (a) Compass system. Ensure synchronized.  (b) Select heading pointer. Set to lubber.</p>									
SMS/80/453/23					Continued				

CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E				
SP NO	506	CONTINUED			Section 1 (1st Edition)				
SHEET	10	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>3. <u>Functional Test</u> (Contd)</p> <p>3.24 PCU track switch. Select.</p> <p>3.25 FD/AP switch. Set to 'AP'.</p> <p>3.26 FD bead. Ensure at centre of presentation.</p> <p>3.27 Type 8A test set precess rate gyro switch. Operate.</p> <p>3.28 FD bead. Ensure moves down.</p> <p>3.29 AP trim indicator pointer. Check indicates Nose Up.</p> <p>3.30 FD/AP switch. Set to 'OFF'.</p> <p>3.31 AP trim indicator pointer. Ensure returns to centre</p> <p>3.32 Test socket 'J'. (a) Test lead. Remove. (b) Blanking plug. Refit.</p> <p>3.33 PCU attitude switch. Select.</p> <p>3.34 FD/AP switch. Set to 'AP'.</p> <p>3.35 4-axis trim indicator tailplane pointer. Ensure does not move rapidly to fsd.</p> <p>3.36 MRG Mk 2 test set Motor Off switch. Motor off LWL.</p> <p>3.37 FD bead. Ensure moves to right.</p> <p>3.38 MRG Mk 2 test set. (a) Motor Off switch. Release. (b) Erection switch. (i) Set to 'FAST'. (ii) Set to 'NORMAL'.</p> <p>3.39 FD bead. Ensure returns to centre.</p> <p>3.40 PCU BAC. Rotate anti-clockwise.</p>									
SMS/80/453/23A					Continued				

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CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	506	CONTINUED							
SHEET	11	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>3. <u>Functional Test (Contd)</u></p> <p>3.41 FD bead.                      Ensure moves to left.</p> <p>3.42 PCU BAC.                      Return to centre.</p> <p>3.43 FD bead.                      Ensure returns to centre.</p> <p>3.44 Tailplane trim switch.                      Trim nose down.</p> <p>3.45 FD bead.                      Ensure moves up.</p> <p>3.46 Tailplane trim switch.                      Trim to datum.</p> <p>3.47 FD bead.                      Ensure returns to centre.</p> <p>3.48 PCU VSC.                      Rotate VSC fully up and leave in position.</p> <p>3.49 FD bead.                      Ensure moves up then returns to centre.</p> <p>3.50 AP trim indicator pointer.                      Ensure indicates nose down.</p> <p>3.51 Test socket 'J'.              (a) Blanking plug. Remove.              (b) Test lead.            Fit.</p> <p>3.52 FD/AP switch.                      Set to 'OFF'.</p> <p>3.53 PCU height and heading switch.                      Select.</p> <p>3.54 Navigation display unit selected heading pointer.                      Ensure aligned with lubber.</p> <p>3.55 FD/AP switch.                      Set to 'AP'.</p> <p>3.56 Navigation display unit selected headings.                      Increase by 90 degrees.</p> <p>3.57 FD bead.                      Ensure moves to right.</p> <p>3.58 Navigation display unit selected heading.                      Decrease to 10 degrees from lubber.</p>									
SMS/80/453/24					Continued				



CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	506	CONTINUED	LIGHTNING		Section 1	
SHEET	12	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>3. <u>Functional Test</u> (Contd)</p> <p>3.59 PCU BAC. Rotate fully clockwise then release.</p> <p>3.60 This Sub-item is applicable only to systems Pre Mod FCS 65. PCU BAC. Ensure moves to centre.</p> <p>3.61 This Sub-item is applicable only to systems Post Mod FCS 65. PCU BAC. (i) Ensure remains at fully clockwise position. (ii) Return to centre.</p> <p>3.62 Navigation display unit selected heading pointer. Align with lubber mark.</p> <p>3.63 MRG Mk 2 test set Motor Off switch. Motor off to 30 degrees LWL.</p> <p>3.64 FS bead. Ensure moves to right.</p> <p>3.65 PCU VSC. Operate, but not back to detent.</p> <p>3.66 FD bead. Ensure does not move.</p> <p>3.67 PCU VSC. (i) Return to centre detent. (ii) Operate.</p> <p>3.68 Attitude indicator. Ensure follows VSC after movement from detent.</p> <p>3.69 MRG Mk 2 test set. (a) Motor Off switches. Ensure central. (b) Erection switch. (i) Set to 'FAST'. (ii) Set to 'NORMAL'.</p> <p>3.70 FD bead. Ensure returns to centre.</p> <p>3.71 FD/AP switch. Set to 'OFF'.</p> <p>3.72 PCU track switch. Select.</p> <p>3.73 FD/AP switch. Set to 'AP'.</p> <p>3.74 P-S test set. Increase height gradually</p> <p>3.75 FD bead. Ensure moved down.</p>						
SMS/80/453/24A					Continued	

CHAP	5	FLT SYST	SERVICING PROCEDURES	AP101B-1000-5A3 E				
SP NO	506	CONTINUED	LIGHTNING	Section 1				
SHEET	13	AL 12		(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 style="text-align: center;">FLT SYST</p> <p>3. <u>Functional Test</u> (Contd)</p> <p>3.76 P-S test set. Restore height to ambient.</p> <p>3.77 FD bead. Ensure returns to centre.</p> <p>3.78 P-S test set. Increase airspeed to 175 kt.</p> <p>3.79 Throttles. Set to mid-position and engage clutch.</p> <p>3.80 P-S test set. Increase airspeed to 185 kt.</p> <p>3.81 Throttles. Ensure move backward.</p> <p>3.82 P-S test set. Decrease airspeed to 165 kt.</p> <p>3.83 Throttles. Ensure move forward.</p> <p>3.84 P-S test set. Restore airspeed to zero kt.</p> <p>3.85 Throttles. Disengage clutch.</p> <p>3.86 ILS test set. Type 391.</p> <p style="padding-left: 20px;">(a) Test set. Set to 'ON'.</p> <p style="padding-left: 20px;">(b) Function switch. Set to 'LOCAL'.</p> <p style="padding-left: 20px;">(c) Tuning switch. Set to 'XTAL'.</p> <p>3.87 ILS master switch. Set to 'ON'.</p> <p>3.88 ILS channel selector. Select appropriate channel for test set.</p> <p>3.89 ILS test set Type 391.</p> <p style="padding-left: 20px;">(i) Adjust deflection until meter indicates zero.</p> <p style="padding-left: 20px;">(ii) Set maximum right deflection.</p> <p>3.90 FD bead. Ensure moves to right.</p> <p>3.91 ILS test set Type 391. Set deflection to zero.</p> <p>3.92 FD bead. Ensure returns to centre.</p>								
SMS/8C/453/25				Continued				



CHAP	5	FLT SYST	SERVICING PROCEDURES LIGHTNING		AP101B-1000-5A3 E Section 1 (1st Edition)				
SP NO	506	CONTINUED			AC NO . . . . . DATE . . . . .				
SHEET	14	AL 12							
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>Functional Test</u> (Contd)</p> <p>3.93 ILS test set Type 391.</p> <p>(a) Test set. Position as near to glide path aerial as possible.</p> <p>(b) GP aerial. Extend.</p> <p>(c) Function switch. Set to 'GLIDE PATH'.</p> <p>(d) Test set. Adjust deflection until meter indicates zero.</p> <p>3.94 PCU glide switch. Select.</p> <p>3.95 AP trim indicator pointer. Ensure indicates nose up</p> <p>3.96 ILS test set Type 391. Set maximum up deflection</p> <p>3.97 FD bead. Ensure moves.</p> <p>3.98 ILS test set Type 391.</p> <p>(a) Test set. Set deflection to zero.</p> <p>(b) Function switch. } Set to 'OFF'.</p> <p>(c) Tuning switch. }</p> <p>3.99 FD bead. Ensure returns to centre</p> <p>3.100 FD/AP switch. Set to 'OFF'.</p> <p>3.101 PCU climb switch. Select.</p> <p>3.102 AP trim indicator pointer. Ensure indicates nose down.</p> <p>3.103 FD/AP switch. Set to 'FD'.</p> <p>3.104 FD bead.</p> <p>(i) Ensure moves vertically above centre.</p> <p>(ii) Note position.</p>									
SMS/80/453/25A					Continued				

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CHAP	5	FLT SYST	SERVICING PROCEDURES		AP101B-1000-5A3 E	
SP NO	506	CONTINUED	LIGHTNING		Section 1	
SHEET	15	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>3. <u>Functional Test</u> (Contd)</p> <p>3.105 P-S test set.      Increase height at 3000 ft/min to 30000 ft then 45000 ft.</p> <p>3.106 Type 8A test set.</p> <p style="margin-left: 40px;">(a) 30000 ft      )</p> <p style="margin-left: 80px;">lamp.      )</p> <p style="margin-left: 40px;">(b) 45000 ft      )</p> <p style="margin-left: 80px;">lamp.      )</p> <p style="margin-left: 120px;">Ensure light at relevant indicated height.</p> <p>3.107 FD bead.      Ensure moves down from position noted in Sub-item 3.104.</p> <p>3.108 P-S test set.      Restore height to ambient</p> <p>3.109 FD bead.      Ensure returns to position noted in Sub-item 3.104.</p> <p>3.110 P-S test set.      Increase airspeed slowly to 1.06M.</p> <p>3.111 Type 8A test set.</p> <p style="margin-left: 40px;">(a) 275 kt      )</p> <p style="margin-left: 80px;">lamp.      )</p> <p style="margin-left: 40px;">(b) 400 kt      )</p> <p style="margin-left: 80px;">lamp.      )</p> <p style="margin-left: 120px;">Ensure light at relevant indicated airspeed.</p> <p>3.112 FD bead.      At 0.89M ensure moves in the vertical plane as Mach number is increased.</p> <p>3.113 P-S test set.      Restore airspeed to zero kt.</p> <p>3.114 FD bead.      Ensure moves down.</p> <p>3.115 FD/AP switch.      Set to 'OFF'.</p> <p>3.116 PCU.</p> <p style="margin-left: 40px;">(a) Stab switch.)</p> <p style="margin-left: 40px;">(b) Master      )</p> <p style="margin-left: 80px;">switch.      )</p> <p style="margin-left: 120px;">Set to 'OFF'.</p>						
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