

CHAP	2	SP 102	SERVICING PROCEDURES				AP 1018-1000-5A3 F Section 2				TIME	ACT					
TRADE	AIR COMMS		LIGHTNING														
SHEET	1	OF	5	SHEET/S		3	5	6	AL NO	13	DATE		EST				
TITLE	UHF Stand by Installation				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 DEFECT OR SUSPECTED DEFECT	F. 720B NO	N.C.O. INITIALS	ASSOCIATED PROCEDURE CARDS			
TS15077.																	
NB During this functional test, under conditions of radio silence, the aircraft aerial is not to be connected to TS15077.																	
<p style="text-align: center;">AIR COMMS</p> <p>1. <u>Preparation</u></p> <p>1.1 External dc supply. Connect to aircraft.</p> <p>1.2 TR aerial connector. Disconnect from TR.</p> <p>1.3 Connector Type 5995-99-9434142. Connect between TS Test socket and installation Test socket.</p> <p>1.4 Connector Type 5995-99-9434145. Connect between TS Radio and TR aerial socket.</p> <p>1.5 Headsets (2 off). Connect to TS Radio and Pilot's mic/tel sockets.</p> <p>1.6 I/C ON/OFF switch (If fitted). Ensure set to OFF.</p> <p>2. <u>Power Supplies</u></p> <p>2.1 Power supply switch. Set to 'NORMAL'.</p> <p>2.2 Battery Master switch. Set to 'ON'.</p> <p>2.3 UHF Selector switch. Set to 'STBY' and allow 30 second warm up period.</p> <p>2.4 TS 15077 (a) Meter switch. Set to '1'. (b) Harrier/Normal switch. Set to 'NORMAL'.</p>																	
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													102				

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SP NO	102	Contd	LIGHTNING	Section 2				
SHEET	2	AL 13		AC NO..... DATE				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.				SERV RECORD - F. 2983B				
				(1)	(2)	(3)	(4)	(5)
AIR COMMS								
2. <u>Power Supplies</u> (Contd)								
2.5 Power supply switch. (i) Momentarily set to 'EMERGENCY' and check indication is in Green zone. NB. If indication is low, check battery voltage. (ii) Set to 'NORMAL'.								
2.6 External dc supply. Switch on.								
2.7 Battery Master switch. Set to 'OFF'.								
2.8 TS 15077. (a) Supply switch. Set to 'ON' and allow 30 seconds warm up period. (b) Meter switch. Set to '1' and check meter indication is in Green zone.								
2.9 I/C facility. Ensure available between TS and Pilot's station.								
3. <u>Receiver Sensitivity and Channel Selection</u>								
In Sub-item 3.1 indications of zero (link disconnected) and six (link connected) can be expected.								
3.1 TS 15077 (a) Co-axial link. Ensure disconnected. (b) Meter switch. (i) Set to '11'. (ii) Ensure meter indication is less than 10. (iii) Note meter indication. (c) Co-axial link. Connect between TS Rx and noise generator sockets. (d) Power switch. (i) Set to 'LOW' and ensure meter indication is at least twice that noted in Sub-item 3.1(b) (iii).								
Sub-item 3.2 is applicable only if alternative channel is fitted.								
3.2 Channel switch. (i) Set to 'ALTERNATIVE' and repeat Sub-item 3.1 (ii) Set to 'GUARD'.								
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CHAP	2	AIR COMMS	SERVICING PROCEDURES	AP101B-1000-5A3F					
BP NO	102	Contd	LIGHTNING	Section 2					
SHEET	3	AL 13		AC NO..... DATE					
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.			SERV RECORD - F. 2983B		(1)	(2)	(3)	(4)	(5)
AIR COMMS									
3. <u>Receiver Sensitivity and Channel Selection</u>									
3.3 TS 15077.									
(a) Attenuator. Connect between TS Rx and Sig Gen sockets.									
(b) Sig Gen switch. Set to 'X'.									
(c) Meter switch. Set to '5' and ensure tone is audible in headset.									
3.4 Channel switch. (i) Set to 'ALTERNATIVE' and ensure tone is inaudible in headset.									
(ii) Set to 'GUARD'.									
4. <u>Transmitter Power</u>									
4.1 TS 15077.									
(a) Co-axial link. Connect between TS Tx and Load sockets.									
(b) Meter switch. Set to '5'.									
4.2 Pilot's Press-to Transmit switch. Depress.									
4.3 TS 15077 Power switch. (i) Set to 'LOW' and check meter indication is not less than '40', note indication.									
(ii) Release.									
4.4 Channel switch. Set to 'ALTERNATIVE'.									
4.5 TS 15077 Power switch. (i) Set to 'LOW' and check meter indication is not less than '40', note indication.									
Note: If meter indications noted at Sub-item 4.3 Operation (i) and Sub-item 4.5 Operation (i) are identical it is possible that a crystal selection fault exists.									
(ii) Release.									
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SP NO	102	Contd	LIGHTNING		Section 2				
SHEET	4	AL 13			AC NO..... DATE				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.					SERV RECORD - F. 2983B				
					(1)	(2)	(3)	(4)	(5)
AIR COMMS									
4. <u>Transmitter Power</u>									
4.6 Pilot's Press- Release. to-Transmit switch.									
4.7 Channel switch. Set to 'GUARD'.									
5. <u>Modulation Depth and Sidetone</u>									
5.1 Pilot's Switch off. microphone.									
NB: Item 5.2.(a) is applicable only if TS15077 to Post Mod A3327.									
5.2 TS15077.									
(a) Sig Gen/Mic Set to 5mV 300 ohms. Sim output switch.									
(b) Meter switch. Set to '6'.									
(c) Talk switch. Depress to 'ON'.									
(d) DC Cal Adjust for meter control. indication of 'D'.									
(e) Meter switch. (i) Set to '7' and ensure meter indication is not less than 'A'.									
(ii) Set to '5'.									
5.3 TS headset. Speak into microphone and ensure Pilot's sidetone is clear.									
5.4 TS Talk switch. Release.									
5.5 Channel switch. Set to 'ALTERNATIVE'.									
6. <u>Aerial Reflection Coefficient</u>									
6.1 Connector Type Connect between TS 5595-99 aerial socket and TS 9434144. aerial connector.									
6.2 TS15077									
(a) Co-axial Connect between TS Tx link. and aerial sockets.									
(b) Meter Set to '6'. switch.									
(c) Talk Depress to 'ON'. switch.									
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CHAP	2	AIR COMMS	SERVICING PROCEDURES	AP101B-1000-5A3F				
GP NO	102	Contd	LIGHTNING	Section 2				
SHEET	5	AL 13		AC NO..... DATE				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.				SERV RECORD - F. 2983B				
				(1)	(2)	(3)	(4)	(5)
AIR COMMS								
6. <u>Aerial Reflection Coefficient</u> (Contd)								
6.2 TS15077 (Contd)								
(d)DC Cal switch. Adjust for meter indication of 'B'.								
(e)Meter switch. Set to '8' and ensure meter indication does not exceed 10 divisions.								
(f)Talk switch. Release.								
6.3 Channel switch. Set to 'GUARD'.								
7. <u>General</u>								
7.1 TS supply switch. Set to 'OFF'.								
7.2 UHF Selector switch. Set to 'MAIN UHF'.								
7.3 Headsets (2 off). Disconnect.								
7.4 TS15077. Disconnect and remove.								
7.5 TR aerial connector. Reconnect to TR aerial socket.								
7.6 Pilot's PEC cover. Refit.								
7.7 External dc supply. (a) Switch off. (b) Disconnect.								
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