

CHAP	2	SP 106	SERVICING PROCEDURES				AP 101B-1000-5A3 F Section 2 (1st Edition)				TIME EST	ACT		
TRADE	AIR COMMS		LIGHTNING											
SHEET	1	OF	6	SHEET/S			3	5	6	AL NO	11	DATE		
TITLE	ILS Installation						SERVICING RECORD AC No ..... DATE .....							
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.										(1)	(2)	(3)	(4)	(5)
<u>Special Tools and Equipment</u> T.S. 391										MAN HOURS	TRADESMAN INIT	BRIEF DETAILS OF DEFECT OR SUSPECTED DEFECT	F.720B NO	N.C.O. INITIALS
AIR COMMS														
1.	<u>Preparation</u>													
1.1	External a.c. and d.c. supplies.	Connect to aircraft and switch on.												
1.2	Localizer and glidepath receiver pre-set control seals.	Ensure intact. Note:- If any seal is broken replace unit.												
1.3	T.S.391.	Place near localizer aerial.												
	(a) TS	Connect to T.S. ensuring correct polarity.												
	(b) 28V d.c. supply.	Extend.												
	(c) Localizer aerial.	Set to 'ON'.												
	(d) On/Off switch.	(i) Depress and check T.S. meter pointer is in Red sector												
	(e) Supply/ Operate switch.	(ii) Release.												
1.4	Pilot's P.E.C. cover.	Remove and stow.												
1.5	Headset.	Connect to Pilot's mic/tel socket.												
1.6	I.L.S. Master switch.	Set to 'ON' and allow a 5 minute warm up period.												
1.7	Control unit warning light.	Ensure lit.												
1.8	Dimmer control.	Operate to ensure control unit illuminates.												
1.9	I.L.S./V.P. switch.	Set to 'I.L.S.'.												
SMS/78/219/11										Continued				

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ASSOCIATED PROCEDURE CARDS

ASSOCIATED TRADES

SP NO

106

CHAP	2	AIR COMMS	SERVICING PROCEDURES	AP101B-1000-5A3 F					
SP NO	106	Continued	LIGHTNING	(Section 2 (1st Edition))					
SHEET	2	AL 11		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									
1.10	Voltage regulator Type 60.	Check output voltage is between 18.75 and 19.25 V d.c.							
1.11	I/C On/Off switch.	Ensure set to 'OFF'.							
1.12	UHF control unit.	(i) Switch to TR. (ii) Set volume control to mid point position.							
1.13	Visual/Audio warning.	Cancel.							
1.14	Instrument master switch.	Set to 'ON'.							
1.15	Nav display unit.								
	(a) Mode selector.	Set to 'ILS'.							
	(b) Localizer datum.	Set to lubber mark by pulling out heading knob and rotating.							
	(c) Beam and Glidepath warning lamps.	Ensure lit.							
2.	<u>Localizer Deflection Sensitivity</u>								
2.1	CU Channel selector.	Set to channel corresponding to working frequency of TS391. Note: If there is no crystal fitted corresponding to TS frequency, refer to instructions on inside of TS door.							
2.2	TS391.								
	(a) Function switch.	Set to 'LOC'.							
	(b) Tuning switch.	Set to 'XTAL'.							
	(c) Deflection control.	Adjust for 0 meter indication.							
SMS/78/219/11A			Continued						

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CHAP	2	AIR COMMS	SERVICING PROCEDURES	AP101B-1000-5A3 F				
SP NO	106	Continued	LIGHTNING	Section 2 (1st Edition)				
SHEET	3	AL 16		AC NO..... DATE .....				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.				SERV RECORD - F. 2988B				
				(1)	(2)	(3)	(4)	(5)
AIR COMMS								
2.	<u>Localizer Deflection Sensitivity</u> (Contd)							
2.3	Nav display unit.							
	(a)	Localizer flag.	Ensure clears.					
	(b)	Localizer beam bar.	Ensure takes up a position midway between lines of localizer datum.					
2.4	Test set deflection control.		Adjust to set max left on meter.					
2.5	Nav display unit localizer beam bar.		Check moves left of datum by 3/4 inches.					
2.6	Test set deflection control.		Adjust to set max right on meter.					
2.7	Nav display unit localizer beam bar.		Check moves right of datum by 3/4 inches.					
2.8	TS391.							
	(a)	Function switch.	Set to 'LOC AUDIO'.					
	(b)	Freq Mod CPS switch.	Set to '1300'.					
2.9	Headset.		Ensure 1.3 kHz note is heard.					
2.10	Volume control.		Operate.					
SMS/80/319/8				Continued				

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CHAP	2	AIR COMMS	SERVICING PROCEDURES LIGHTNING	AP101B-1000-5A3 F Section 2 (1st Edition)	
SP NO	106	Continued		AC NO..... DATE .....	
SHEET	4	AL 11		SERV RECORD - F. 2988B	

Safety and Servicing Notes are to be complied with throughout the work detailed on this card.

(1) (2) (3) (4) (5)

**AIR COMMS**

3. Glidepath Deflection Sensitivity

- 3.1 Test set 391.
- (a) Localizer aerial. Stow.
  - (b) Test set. Place near glidepath aerial.
  - (c) Glidepath aerial. Extend
  - (d) Function switch. Set to 'GLIDEPATH'.
  - (e) Tuning switch. Set to 'XTAL'.  
Note: If TS is being used on 'MANUAL', return glidepath frequency.
  - (f) Deflection control. Adjust for zero meter indication.
- 3.2 Nav display unit.
- (a) Glidepath warning flag. Ensure clears.
  - (b) Glidepath bar. Ensure coincident with control index mark.
- 3.3 TS deflection control. Adjust to set meter indication max left.
- 3.4 Nav display unit glidepath bear. Check moves to upper limit. (Approx 0.55 inches).
- 3.5 Test set deflection control. Adjust for meter indication max right.
- 3.6 Nav display unit glidepath bar. Check moves to lower limit. (Approx 0.55 inches).

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CHAP	2	AIR COMMS	SERVICING PROCEDURES	AP101B-1000-5A3 F				
SP NO	106	Continued	LIGHTNING	(Section 2 1st Edition)				
SHEET	5	AL 11		AC NO..... DATE .....				
Safety and Servicing Notes are to be complied with throughout the work detailed on this card.				SERV RECORD - F. 2988B				
				(1)	(2)	(3)	(4)	(5)
AIR COMMS								
4. <u>Marker Receiver</u>								
4.1 TS391.								
(a) Glidepath aerial. Stow.								
(b) Test set Place near marker aerial.								
(c) Marker aerial. Extend.								
(d) Function switch. Set to 'MARKER'.								
(e) Tuning switch. Ensure set to 'XTAL'.								
(f) Frequency Mod switch. Ensure set to '1300'.								
4.2 Nav display unit marker lamp. Ensure Day/Night slider is set to Day.								
4.3 Marker lamp. Ensure lit.								
4.4 Headset. Ensure 1.3 kHz tone is heard.								
4.5 TS On/Off switch.								
(i) Operate and ensure marker lamp flashes on and off in sympathy with T.S. switch.								
(ii) Set to 'OFF'.								
5. <u>General</u>								
5.1 I.L.S. On/Off switch. Set to 'OFF'.								
5.2 Nav Display Max switch. Set to 'COMP'.								
5.3 Main VHF. Switch 'OFF'.								
5.4 Instrument Master switch. Set to 'OFF'.								
5.5 Headsets. Disconnect and remove.								
5.6 P.E.C. covers. Refit.								
5.7 T.S.391 Disconnect and stow aerial.								
SMS/78/219/13				Continued				

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CHAP	2	AIR COMMS	SERVICING PROCEDURES	AP101B-1000-5A3 F				
SP NO	106	Continued	LIGHTNING	Section 2 (1st Edition)				
SHEET	6	AL 11		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								
5. <u>General</u> (Contd)								
5.8 External a.c. and d.c. supplies.      Switch off and disconnect.								
SMS/78/219/13A/STC				Continued				

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Instrument panel from a MiG-21 Provoost (XP558)