



sabena B707	Module: E&E + LWR NOSE C	A/C Reg :	Check :	 D4G2000500
	Oper. : NRT			
	Type : MODIF	Issuer : A46843	Cert.St.: 46928	Page 1 of 7
Spec. : ELECTRICIAN	Release Date: 24.11.2004			

SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

			MAINT	RII/INSP
Execution / Start Date:				
End Date:				


Pos	Mat. Type	P/N	IDN	Description	Qty	Unit
1	KIT	.	861869	.	1.00	EA

--	--	--	--	--	--	--

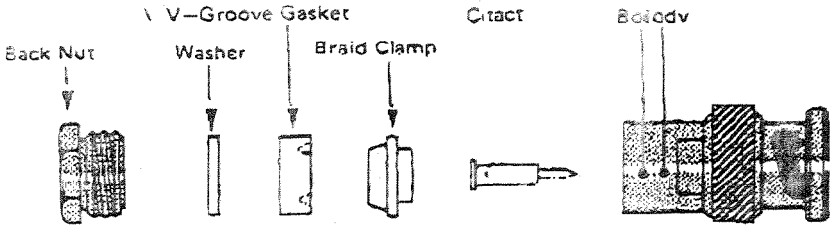

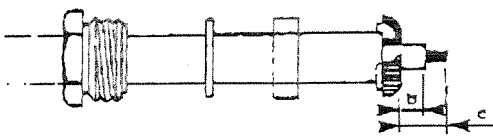
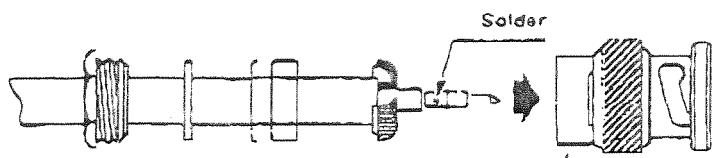
sabena B707	Module: E&E + LWR NOSE C	A/C Reg :	Check :	 D4G2000500
	Oper. : NRT			
	Type : MODIF	Issuer : A46843	Cert.St.: 46928	Page 2 of 7
Spec. : ELECTRICIAN	Release Date: 24.11.2004			


SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

					MAINT	RII/INSP
Nr.	Hardtime	Task	Spec.	Related Documents		
1.	1C		REI	SAB 23-366 rev 04 SEP 00		
Check:						
Zones:						
Access:						
<u>A. PROCEDURE :</u>						
1. <u>Left Hand Radio Rack Equipment:</u>						
1.1		Remove the Coaxial cable W9209-001(W9203) from the Elmer RT 651/N VHF/UHF Transceiver # 1 front face.				
1.2		Cut the coaxial cable W9209-001 (W9203) at the most convenient place and advise Sabena Avionics Engineering where the cable has been split up. (Refer to Figure 2) T.SE.REI Tordeurs Benoit Phone : 00 32 (0)2723 4419 Fax : 00 32 (0)2723 4730				
1,3		Strip the cable at both cut edges of the coaxial cable according to Figure 1 ,				
1.4		Mount the BNC connectors P/N : R141018 at the both end of the stripped & cut cable. (Refer to Figure 1). a) Place the back nut, washer, gasket and braid clamp onto the cable. b) Fold back and trim the braid. c) Strip the dielectric. d) Solder the contact. e) Mount the assembly into the body.				

sabena B707	Module: E&E + LWR NOSE C	A/C Reg :	Check :	
	Oper. : NRT			
	Type : MODIF	Issuer : A46843	Cert.St.: 46928	D4G2000500
	Spec. : ELECTRICIAN	Release Date: 24.11.2004		Page 3 of 7


SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

	MAINT	RII/INSP									
 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;"> <table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> </tr> </thead> <tbody> <tr> <td>M 02 275 (7)</td> <td>.118 (3(3))</td> <td>.216 (5.5)</td> </tr> <tr> <td>M 08 275 (7)</td> <td>.039 (1(1))</td> <td>.157 (4)</td> </tr> </tbody> </table> </div>  </div> <div style="text-align: right; margin-bottom: 10px;">1</div>  <div style="text-align: center;"> <p>FIGURE 1</p> <div style="text-align: right; margin-bottom: 10px;">2</div>  <p style="text-align: center;">Recommended tightening 450 N.cm</p> </div> <div style="text-align: right; margin-top: 10px;">3</div>	a	b	c	M 02 275 (7)	.118 (3(3))	.216 (5.5)	M 08 275 (7)	.039 (1(1))	.157 (4)		
a	b	c									
M 02 275 (7)	.118 (3(3))	.216 (5.5)									
M 08 275 (7)	.039 (1(1))	.157 (4)									

sabena B707	Module: E&E + LWR NOSE C	A/C Reg :	Check :	
	Oper. : NRT			
	Type : MODIF	Issuer : A46843	Cert.St.: 46928	D4G2000500
Spec. : ELECTRICIAN	Release Date: 24.11.2004		Page 4 of 7	


SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

	MAINT	RII/INSP
1.5 Insert the Adapter on the cable end which is routed to the RD9504J (RD9414J) sta 450 Terminal. (Refer to Figure 2)		
1.6 Connect the male BNC connector of the Low Pass Filter LC539-7BBm to the Adapter P/N : R 141704. (Refer to Figure 2)		
1.7 Fix the Filter at the most convenient place on the shelf 4 and advise Sabena Engineering. (Refer to Figure 2)		
1.8 Connect the female BNC connector of the Low Pass Filter LC539-7BBm to the connector P/N : R141018 (Refer to Figure 2)		
1.9 Connect the coaxial cable to the Elmer RT 651/N VHF/UHF transceiver # 1 front face on the Shelf 4,		
1.10 Perform continuity and isolation check of the coaxial cable.		
1.11 Perform operational check of the UHF/VHF according to A.M.M. SN REV. Jul31/99 23-10-01 P501.		
<u>Prepare to test.</u>		
A. Provide ground power to the airplane and energize busses or circuit breaker panel P5.		
B. Ensure all V/uHF circuit breakers and interphone audio selector panel circuit breakers are closed.		
C. Ensure audio selector panels and interphone system are operable.		
<u>Test V/uHF communication system.</u>		
A. At pilot's station, set microphone selector switch to V/uHF-1 on audio selector panel.		
B. At co-pilots station, set microphone selector switch to V/uHF-2 on audio selector panel.		
C. Set "ON/OFF" rotary switch or control panel in T/R position. Verify that the equipment is operating.		
<u>Note : At the power-up the CP-9000/SH performs an automatic lamp test, then after the radio power-up test is completed it sends data to the radio.</u>		
D. <u>Manual Frequency SELECTOR/INDICATOR</u>		
1) Set the " FREQUENCY SELECTOR MODE" rotary switch on CP in "MAN" position.		
2) Select several frequencies on toggle switches and observe the change of indication on control panel display.		
3) On an authorized test frequency press the PTT and establish a two way communication.		
E. <u>STORE/PRESET Operation</u>		
1) Set the "CHAN SEL" toggle switch in one of 99 channels;		
2) Set the "FREQUENCY SELECTOR MODE" in PRE and a frequency value by the "MANUAL FREQUENCY SWITCH" ; the selected frequency will be shown on the control panel display.		
3) Set the "FREQUENCY SELECTOR MODE " in LD ; (the frequency value selected at point 0 will be memorized on the system) .		
4) Set the " FREQUENCY SELECTOR MODE" in MAN; the control panel display shows, the previous frequency value before store operation.		
5) Set the " FREQUENCY SELECTOR MODE" in PRE		
6) Verify that frequency on the display is the memorized one.		

sabena B707	Module: E&E + LWR NOSE C	A/C Reg :	Check :	 D4G2000500 Page 5 of 7
	Oper. : NRT			
	Type : MODIF	Issuer : A46843	Cert.St.: 46928	
Spec. : ELECTRICIAN	Release Date: 24.11.2004			

SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

	MAINT	RII/INSP																												
<p>F. <u>Squelch Toggle Switch</u></p> <ol style="list-style-type: none"> 1) Set in "OFF" position the "SQL" toggle switch on CP. 2) At Pilot's station, set headset selector switch to V/UHF-1 on interphone audio selector panel At Copilot's station, set headset selector switch to V/UHF-2 on interphone AUDIO SELECTS PANEL. 3) Verify on headphone the presence of noise. 4) Set in " ON" position the " SQL" toggle switch on CP . 5) Verify the disappearance of noise on headphone. <p>G. <u>Transceiver Functional Test (Interruptive BIT)</u></p> <ol style="list-style-type: none"> 1) Set by frequency selector a frequency in the 30 to 469.975 MHz band. 2) Set the "FUNCTION SELECTOR SWITCH on "TEST" position to activate the IBIT function (the selector must be held in the TEST until the function has been performed) . 3) Verify that at the end of IBIT is displayed A0 A0 A0. (During the test the "FAIL" lamp is blinking and the frequency display shows the last selected frequency. At the end of the test routine, if no fail has been found, the fail lamp stops blinking) . <p>NOTE : 1) <u>If a FAILURE has been detected</u> the Fail lamp remains lit up fixed and the frequency display shows the indication of failed module(s) (AXAXAX) in decreasing probability order. 2) <u>In case of WARNING condition</u> the fail lamp remains lit up fixed and on the frequency display appears the indication of occurred warning (PX) . 3) The following tables report the meaning of the various failure and warning codes.</p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>FAILED MODULE</th> <th>AX</th> </tr> </thead> <tbody> <tr><td>Test OK</td><td>0</td></tr> <tr><td>FP/Controller</td><td>1</td></tr> <tr><td>ECCM</td><td>2</td></tr> <tr><td>IF/Audio</td><td>3</td></tr> <tr><td>Synthesizer</td><td>4</td></tr> <tr><td>RF/IF Converter</td><td>5</td></tr> <tr><td>Power Supply</td><td>6</td></tr> <tr><td>Power Amplifier</td><td>7</td></tr> <tr><td>Flex Cable</td><td>8</td></tr> </tbody> </table> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>WARNING CONDITION</th> <th>PX</th> </tr> </thead> <tbody> <tr><td>High temperature</td><td>1</td></tr> <tr><td>High VSWR/Controller</td><td>2</td></tr> <tr><td>Low Power Supply</td><td>3</td></tr> </tbody> </table>	FAILED MODULE	AX	Test OK	0	FP/Controller	1	ECCM	2	IF/Audio	3	Synthesizer	4	RF/IF Converter	5	Power Supply	6	Power Amplifier	7	Flex Cable	8	WARNING CONDITION	PX	High temperature	1	High VSWR/Controller	2	Low Power Supply	3		
FAILED MODULE	AX																													
Test OK	0																													
FP/Controller	1																													
ECCM	2																													
IF/Audio	3																													
Synthesizer	4																													
RF/IF Converter	5																													
Power Supply	6																													
Power Amplifier	7																													
Flex Cable	8																													
WARNING CONDITION	PX																													
High temperature	1																													
High VSWR/Controller	2																													
Low Power Supply	3																													

sabena B707	Module: E&E + LWR NOSE C	A/C Reg :	Check :	 D4G2000500
	Oper. : NRT			
	Type : MODIF	Issuer : A46843	Cert.St.: 46928	Page 6 of 7
Spec. : ELECTRICIAN	Release Date: 24.11.2004			

SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

	MAINT	RII/INSP
<p>2. EMI Test procedure reference: Trimble "installation and check-out Manual" document 34-53-01 item 3.4.2.1 Page 3-15 Harmonic interference from VHF transmissions on the following frequencies may affect GPS signal reception:</p> <p>Frequency in MHz :</p> <p>121.125, 121.160, 121.175, 121.200, 121.225, 121.250, 131.200, 131.225, 131.250 131.275, 131.300, 131.325, 131.350.</p> <p>For each of the above frequencies, perform the following test :</p> <ol style="list-style-type: none"> 1. Tune the VHF radio to the Frequency under test 2. While observing the GPS signal page selected (see the remark herebelow) key the VHF transmitter for 30 sec. 3. Check that GPS signal reception is not degraded during VHF transmission. 4. Repeat steps 1-3 for each frequency of above list. <p>Remark: To check the GPS sensor status, press the DAT/ DATA, 4 keys, then. key</p> <div data-bbox="450 1120 833 1400" data-label="Image"> <pre> GPS 2/2* SV 2 6 11 16 22 27 31 1 RAIM PREDICT 2 FPL FDE PRED </pre> </div> <p>This displays information about the tracked satellites. In the lines under the SV label, the first three lines of the display show the Space Vehicle (SV) number. The white numbers indicate selected satellites and the green numbers indicate tracked satellites. One tracked satellite is required for GPS time and three selected satellites are required for 2.D navigation; four selected satellites are required for 3.D navigation.</p>		

SAB 23-366 UHF/VHF FREQUENCY RANGE LOW PASS FILTER INSTALLATION

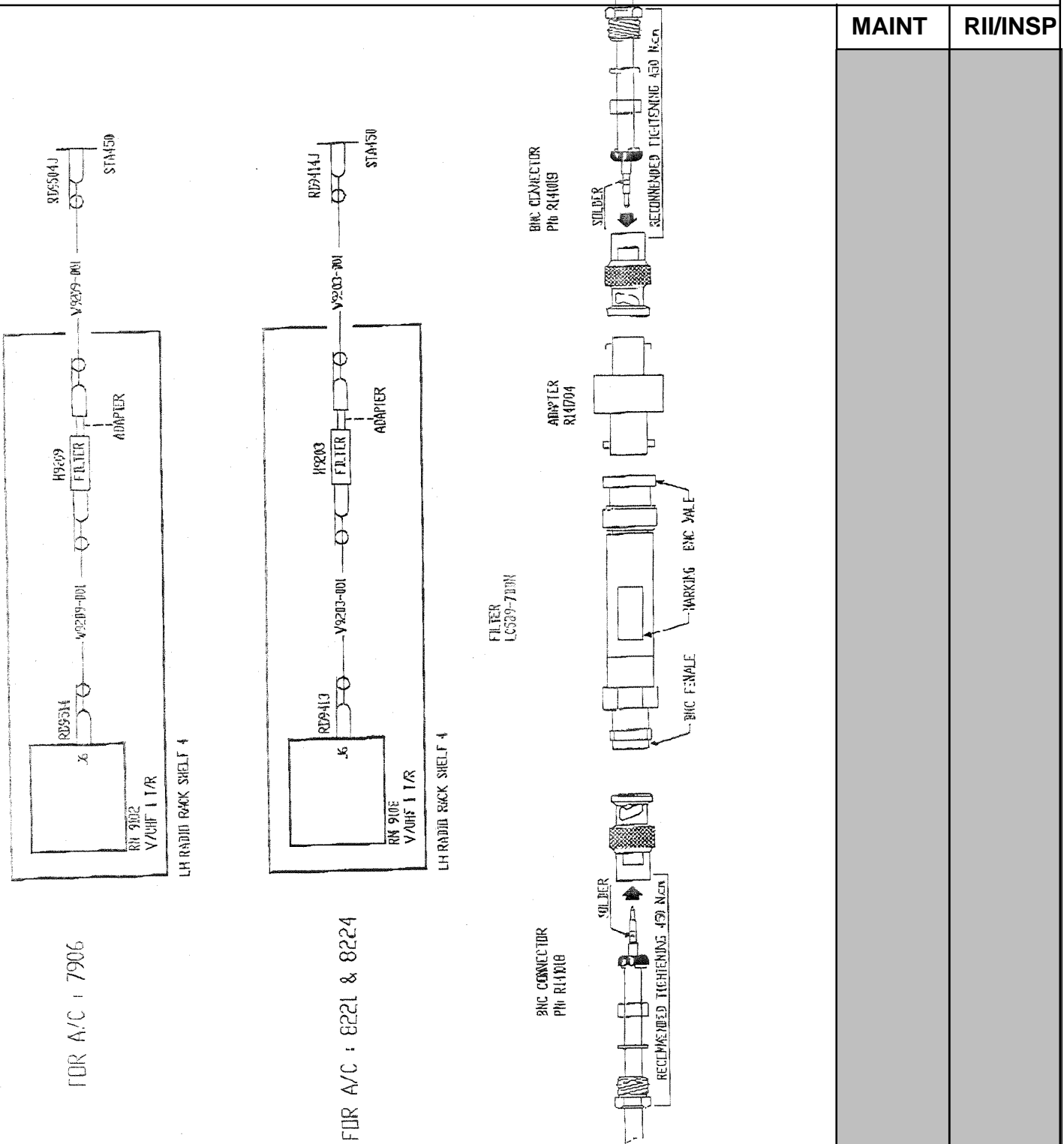


FIGURE 2