

AIRMAN8+

AIRMAN8P-0210 DOUBLE SIDE ANR+ HEADSET | AIRMAN8P-0211
DOUBLE SIDE ANR+ HEADSET



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Record of revisions

Revision No.	Revision Date	Change Description
01	06/2020	Created

2 Purpose of manual

This manual contains information for overhaul and servicing of the Airman 8+ headsets.

2.1 Technical support

A liaison between the customer and factory is provided by the Bosch Product Support Department. Consultation and assistance on technical problems, part information, and availability of local and factory repair facilities is available.

When writing, include all information concerning problems and mail to:

To find the proper address and phone number for your region, please reference <https://telex.com/aviation-solutions/about-telex-aviation-headsets/contact-telex-aviation/>

2.2 Parts ordering

Replacement parts may be ordered from our parts department. When ordering, please include the following information:

- Model Number
- Part Description
- Part Number
- Quantity

To find the proper address and phone number for your region, please reference <https://telex.com/aviation-solutions/about-telex-aviation-headsets/contact-telex-aviation/>

2.3 Repairs

In order to maintain the FAA certification, all repairs to the headset must be made only by persons authorized under Part 43 of the Federal Aviation Agency regulations. Bosch offers full support, repair, and recertification.

2.4 Safety precautions

**Caution!**

This information is for use by qualified personnel only. Have all service work and repairs performed by a trained technician.

- Unauthorized changes, modifications, or alterations to the product is prohibited.

**Caution!**

An ESD protection method should be applied before proceeding with any Mechanical/Electrical instructions.

**Caution!**

Use of any replacement part, which does not have the same specifications, may cause malfunction in the device and could make the product not air-worthy.

**Notice!**

Any material to be disposed of should be done according to local environmental laws.

3 Introduction

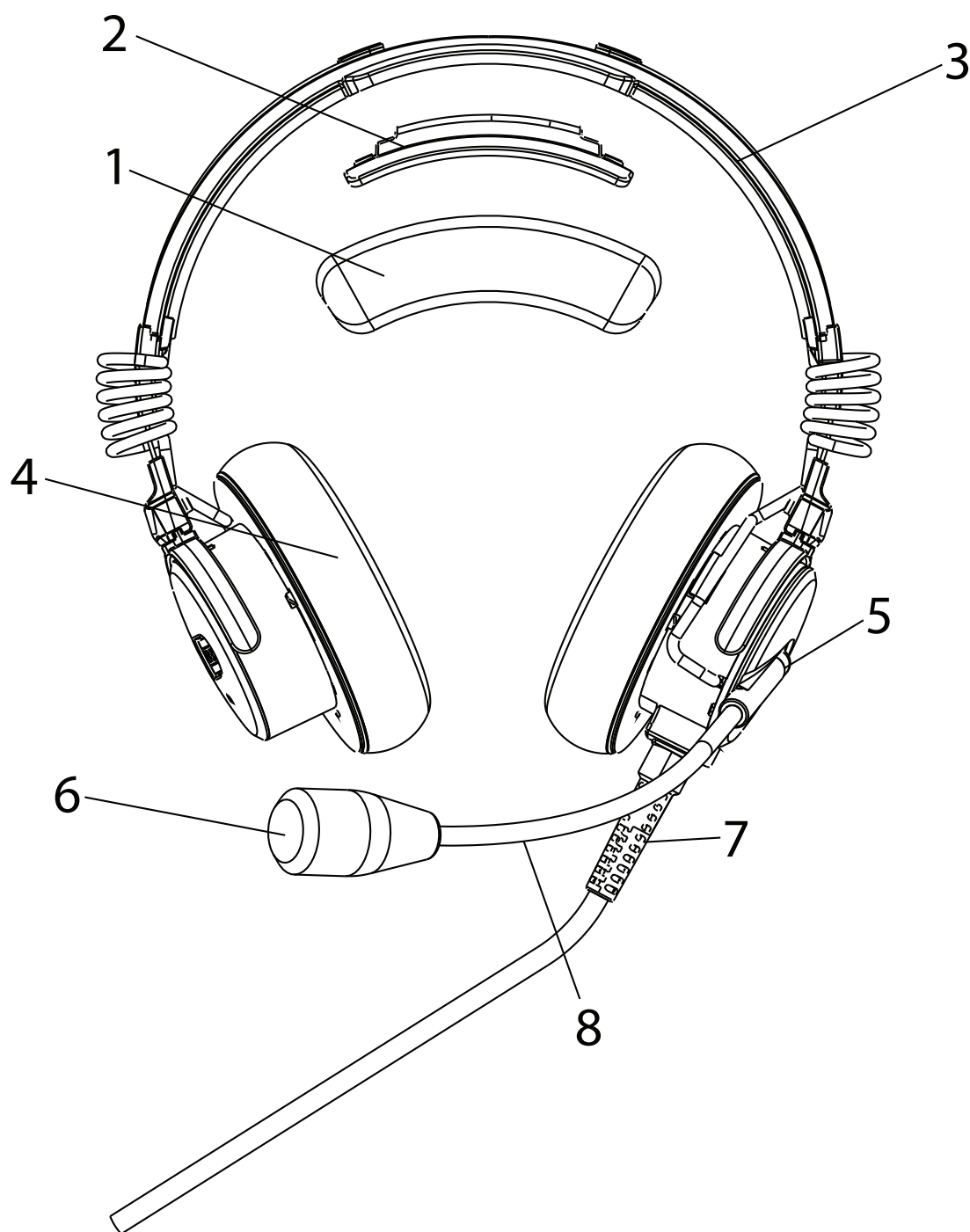
General Description

The Telex Airman 8+ is a lightweight noise-reducing headset designed specifically for optimizing pilot communications in commercial and business turbine aircraft. Building on the tradition of the Airman 850 and the Airman 8, Airman 8+ has improved durability, intelligibility, and comfort. The Airman 8+ is among the lightest Active Noise Reduction headsets on the market and one of only three FAA TSO C139a approved ANR headsets to utilize Telex's proprietary battery-free system. Soft pliable ear cushions and headband pads combine with dual direction ear cup pivots to provide long flight wearing comfort.

Models Covered

Model Number	Description
AIRMAN8P-0210	DOUBLE SIDE ANR HEADSET 2PJ 600 OHM
AIRMAN8P-0211	DOUBLE SIDE ANR HEADSET XLR5 600 OHM

Tab. 3.1: AIRMAN 8+ Models and Connector/Wiring

Reference View

1. Headband Pad
2. Headband Pad Holder
3. Headset Gliders
4. Ear Cushions
5. Boom Rotator
6. Windscreen / Microphone
7. Cord with Strain Relief
8. Boom

4 Parts list and exploded view

4.1 Parts list

Item	CTN	SPR ACC	Part No.	Description	Model	
					-0210	-0211
1 ^{a,b}	AIRMAN8P- 0909	SPR	F.01U.382.338	CARRYING CASE	1	1
2 ^b	AIRMAN7-0900	ACC	F.01U.313.415	WINDSCREEN (2PCS)	1	1
	S-F01U327249	SPR	F.01U.327.249	WINDSCREEN (SINGLE)		
3 ^b	AIRMAN8P-0908	ACC	F.01U.382.336	HEAD PAD	1	1
	ESP-F01U360393	SPR	F.01U.383.827			
4 ^{a,b}	AIRMAN8P-0910	ACC	F.01U.382.339	SANITARY COVER, AIRMAN 8+ (10PCS)	1	1
	ESP-F01U379003	SPR	F.01U.383.830	SPP SANITARY COVER, AIRMAN 8+ (2PCS)		
5 ^b	AIRMAN8P-0903	ACC	F.01U.382.337	EAR CUSHION, AIRMAN 8+ (2PCS)	1	1
	ESP-F01U347235	SPR	F.01U.383.825	SPP Ear cushion Airman 8+ (2pcs)		
6 ^{a,b}	AIRMAN7-0904	ACC	F.01U.313.419	CLOTHING CLIP	1	1
	S-F01U342113	SPR	F.01U.342.113			
7 ^{b,c}	AIRMAN7.0908	ACC	F.01U.344.857	MIC PREFILTER	1	1
	S-F01U346184	SPR	F.01U.346.184			
8	S-F01U109816	SPR	F.01U.109.816	SCREW, PT, PAN HEAD, K15 X 6MM, BLK ZINC	6	6
9 ^a	S-F01U150106	SPR	F.01U.150.106	WIRE 28 AWG 212 WHITE	2	2
10 ^a	S-F01U150110	SPR	F.01U.150.110	WIRE 28 AWG RED	2	2
11	S-F01U342083	SPR	F.01U.342.083	CORD UNIT, PJ Y-BLOCK	1	0
12	S- F01U342084	SPR	F.01U.342.084	EAR SHELL, BOOM SIDE, AIRMAN 8	1	1
13	S-F01U342085	SPR	F.01U.342.085	EAR SHELL, NON BOOM SIDE, AIRMAN 8	1	1
14	S-F01U342086	SPR	F.01U.342.086	COVER, NON BOOM SIDE, AIRMAN 8	1	1
15	S-F01U342087	SPR	F.01U.342.087	SWITCH ACTUATOR, AIRMAN 8	1	1
16	S-F01U342088	SPR	F.01U.342.088	GLIDER STOP (2PCS)	1	1
17	S-F01U342090	SPR	F.01U.342.090	HEADBAND COVER	1	1

Item	CTN	SPR ACC	Part No.	Description	Model	
					-0210	-0211
18	ESP-F01U380743	SPR	F.01U.383.834	PCBA, NON BOOM SIDE, AIRMAN 8+	1	1
19	ESP-F01U380742	SPR	F.01U.383.833	PCBA, BOOM SIDE, AIRMAN 8+	1	1
20	S-F01U342097	SPR	F.01U.342.097	LABEL, TELEX	1	1
21	ESP-F01U384604	SPR	F.01U.383.824	CORD UNIT, XLR, 5M	0	1
22 ^d	ESP-F01U379469	SPR	F.01U.389.975	SPEAKER ASSY, AIRMAN 8+ (including faceplate and seal)	2	2
23	S-F01U344918	SPR	F.01U.344.918	OVER HEAD CABLE	1	1
24	S-F01U344922	SPR	F.01U.344.922	BOOM MIC ASSY, AIRMAN 8	1	1
25	ESP-F01U360396	SPR	F.01U383.835	GLIDER YOKE ASSY, AIRMAN 8+	2	2
26	S-F01U344924	SPR	F.01U.344.924	SCREW, PT PAN HEAD K15 X 3.5MM (25PCS)	4	4
27	ESP-F01U378961	SPR	F.01U.389.974	SPP Headpad holder Airman 8+ (with Velcro	1	1
28 ^a	ESP-F01U359353	SPR	F.01U.383.826	AIRMAN 8+ VELCRO HOOK, ADHESIVE BACK	1	1
29 ^a	S-F01U359827	SPR	F.01U.359.827	AIRMAN REFRESH, Headband Pad Holder	1	1
30	AIRMAN7.0906	ACC	F.01U.313.421	AIRMAN REFRESH, Headband Pad	1	1

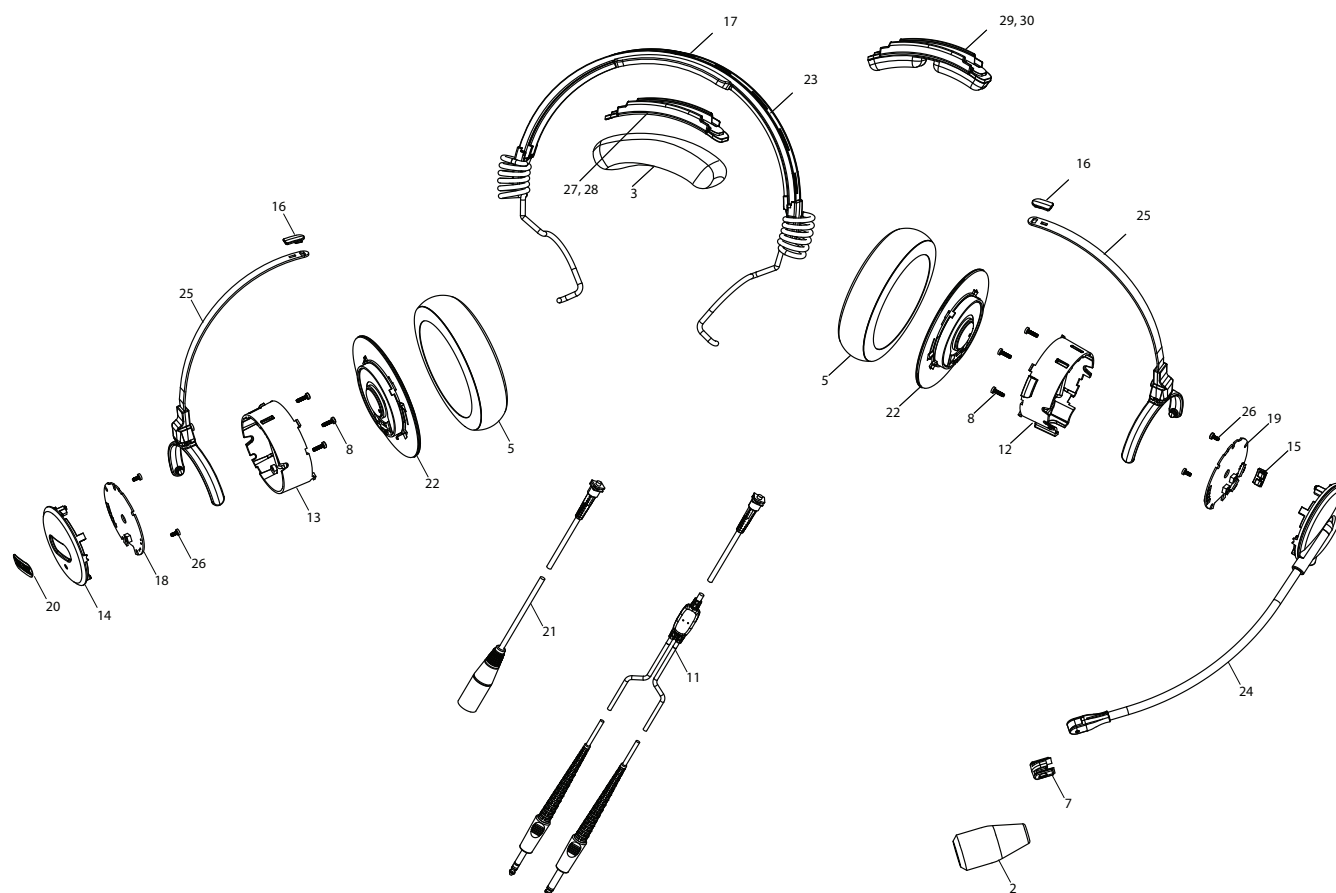
a. Not shown.

b. Either part number is acceptable.

c. Acoustic cloth is included as part of this item.

d. The speaker assembly includes the speaker and the faceplate.

4.2 Exploded view



5 Maintenance

The Airman 8+ headset is designed so that ANR performance and boom microphone sensitivity can be adjusted as required to meet specification requirements. These headset adjustments are made in order to alter performance. All other maintenance requires replacement of parts, fixing open wires, or removing shorted wires. See specification instructions for ANR or boom microphone adjustment.

5.1 Recommended maintenance schedule

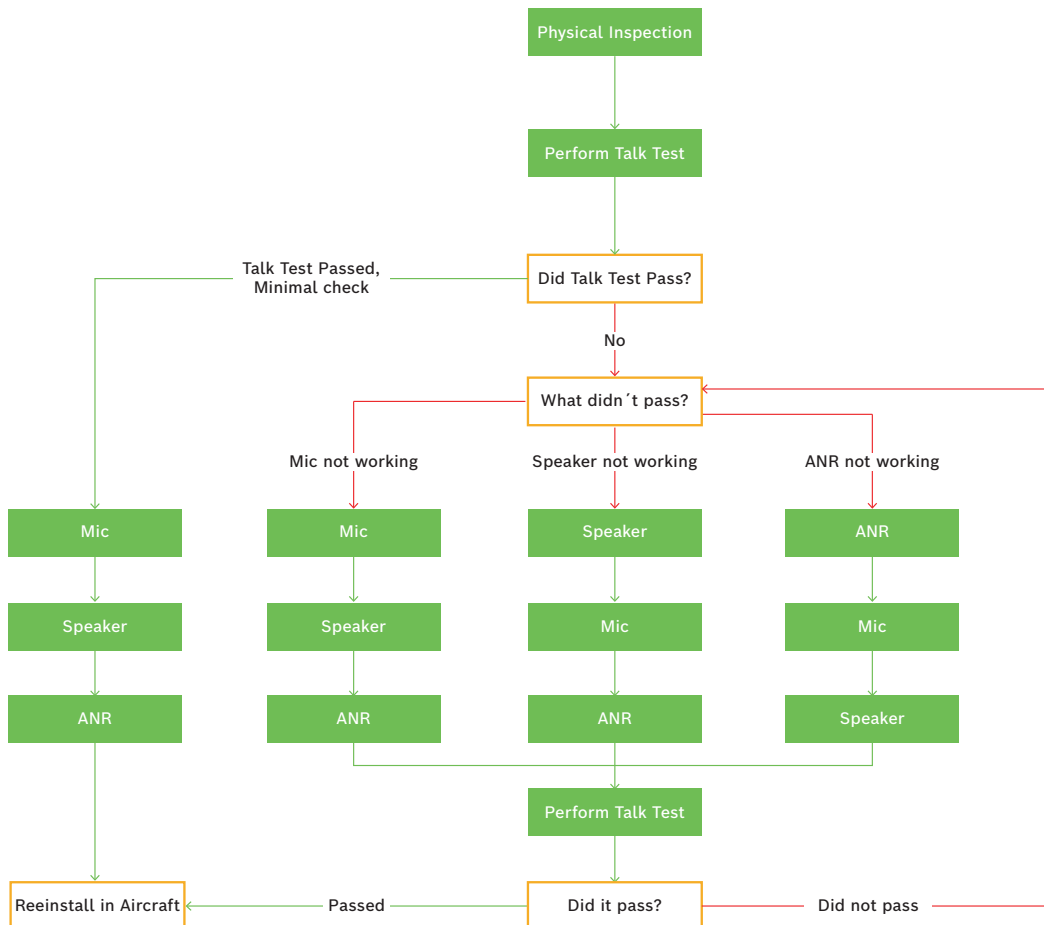
**Notice!**

Ear cushions, headband pads, and microphone windscreens are wear items. For proper headset performance, inspect and replace these items at regular intervals. See the maintenance schedule for more information. Failure to replace items when deterioration or damage is apparent diminishes headset performance.

Task	Per Use	Monthly	6 months
Check boom mic placement	X		
Check ear cup placement	X		
Check headband fit	X		
Inspect and clean connectors			X
Clean ear cushions		X	
Clean headband pad		X	
Check connection cable		X	
Inspect and replace windscreen			X
Inspect and replace ear cushions			X
Inspect and replace headband pad			X

5.2 Basic inspection

Basic Inspection



5.2.1 Physical inspection

Review all plastic parts for cracks or breaks

To review plastic parts, do the following:

- Note any parts which need to be replaced

Review all cables for obvious signs of damage to the insulating materials

To review cables, do the following:

- Look for any cables that have been pulled out of the housings.
- Look for any cables with unnatural or unusual bends or breaks.
- Note any cable assemblies that need to be replaced.

Review user replaceable items

To review user replaceable items, do the following:

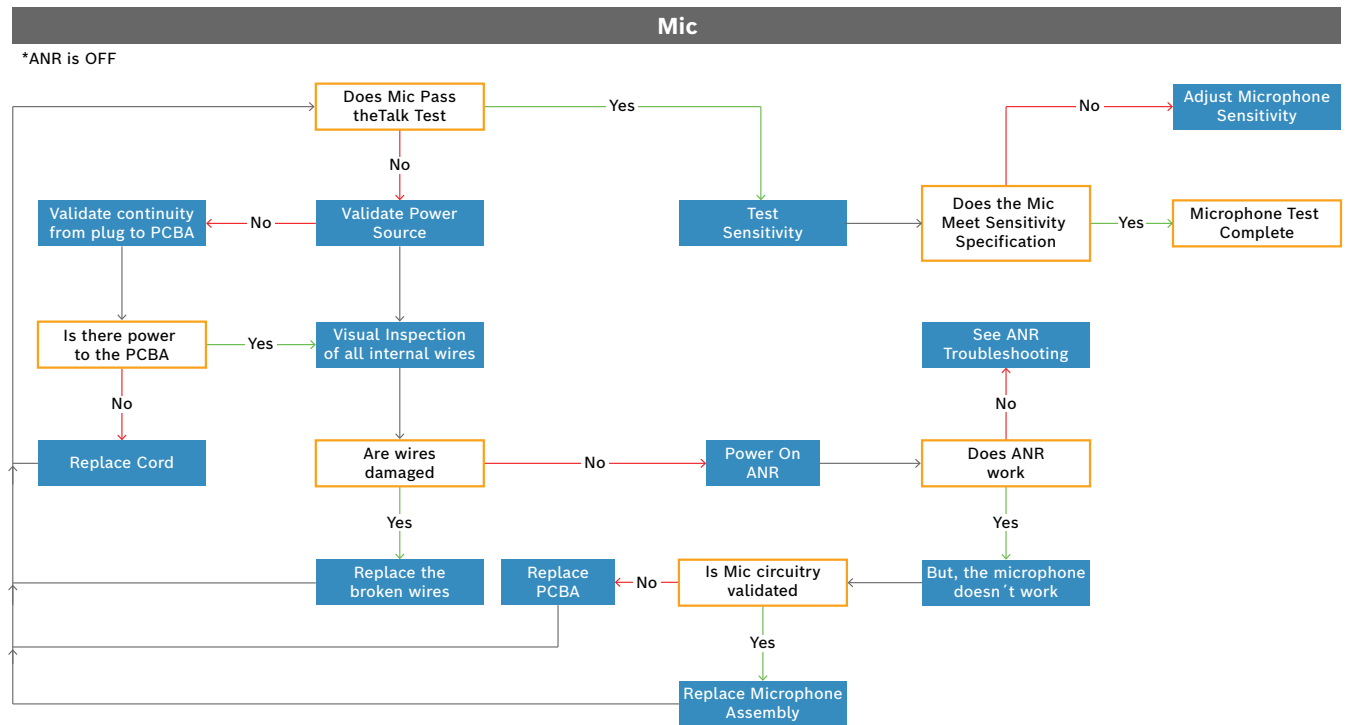
- Check ear cushions.
- Check headband pads.
- Check microphone windscreen.
- Check clothing clips.
- Note any replaceable items that need to be replaced. Talk test.

Test

When performing a talk test, things to be aware of:

- Note any unusual or unexpected noises, static, and oscillations.
- Note any distorted audio.
- Turn ANR on and note noise reduction of fans, ambient noise etc.
- Turn ANR off and note noise levels return to normal.
- Verify sound is heard in both ears.

5.3 Microphone troubleshooting



5.3.1 Validate continuity from plug to PCBA

To **validate continuity from the plug to the PCBA**, do the following:

1. Using an Ohmmeter, place one **probe** on the ring terminal of the plug.
2. Place the **other probe** at J1 on the PCBA.
3. Record the **measurement**.
4. Using an Ohmmeter, place **one probe** on the sleeve terminal of the plug.
5. Place the **other probe** at J2 on the PCBA.
6. Record the **measurement**.

If the reading is approximately zero, continuity is good.

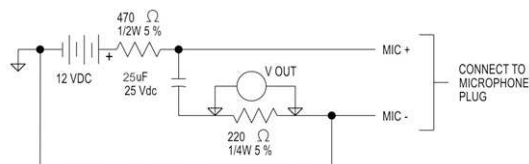
If any other reading is seen, the continuity is bad. Replace the cable.

5.3.2

Validate mic circuitry

To **validate the mic PCBA**, do the following:

1. Construct a **test circuit**.



2. Connect the **test circuit to the microphone plug** of the headset.
For more information, see Connectors.
3. Test for an **audio signal**.
If audio signal is detected, the board is valid.
If audio signal is not detected, the board should be replaced.

5.3.3

Microphone/amplifier sensitivity test



Notice!

This headset was designed, tested, and approved to FAA TSO C139a. The TSO requires the headset meet the minimum performance specifications as defined in RTCA DO-214a. This document and specifications listed here reference the test procedures and equipment used as defined in these standards. Refer to the standard for details on how to perform individual tests.

To **test sensitivity of the microphone**, do the following:

1. Calibrate an **artificial mouth**.
2. Using the test circuit from the mic validation and TSO procedures, measure the **output** of the headset microphone with a true RMS AC voltmeter.

5.3.4

Microphone sensitivity adjustment

The microphone gain has been factory-adjusted to the nominal level required for normal radio operation. Microphone sensitivity adjusts by turning the gain adjustment control.

To **adjust the microphone**, do the following:

1. Rotate the **boom mic** clockwise until the microphone gain adjustment access hole is aligned and open.
2. Insert a **2mm x 0.5mm flat-bladed screwdriver** into the gain adjustment access hole.



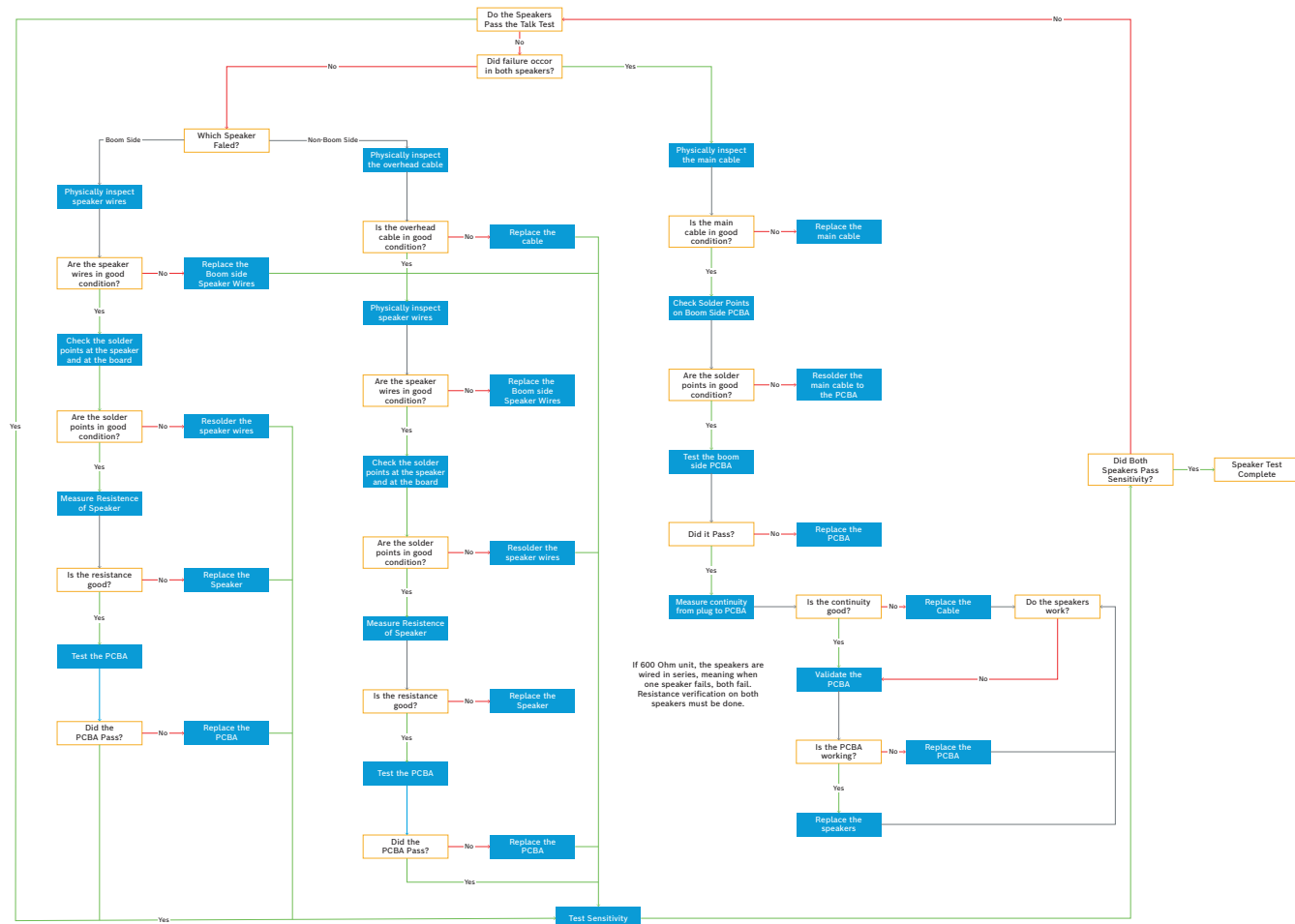
Notice!

If the gain adjustment access hole is properly aligned, the screwdriver can be inserted approximately 1/2-inch into the hole. If not properly aligned, the screwdriver only inserts approximately 1/8-inch into the hole.

3. Turn the gain adjustment potentiometer **clockwise** to increase the gain.
OR
Turn the gain adjustment potentiometer **counterclockwise** to decrease the gain.

5.4 Speaker troubleshooting

Speakers- Airman 8



5.4.1 Speaker sensitivity and frequency response verification



Notice!

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All models tested, unless noted otherwise.

Transducer Type:	Dynamic
Transducer:	600Ω
Impedance (at the earphone plug):	Must meet standards outlined in the specifications table in either the technical manual or the technical data sheet.
Sensitivity:	
Frequency Response:	

5.4.2 Measure the resistance (plug to PCBA)

To **measure the resistance**, do the following:

1. Using an ohmmeter, place one **probe on J5**.
2. Place the other **probe on J6 or J17**.

If measured at $300\Omega \pm 20\%$, continuity is good.

If measured at 600Ω , one of the speaker paths is defective.

If measured at 270Ω or less, there is a short in the speaker path.

5.4.3 Validate the boom side PCBA

To **validate the boom side PCBA**, do the following:

1. On the boom side PCBA, send a **1kHz sine wave, 1Vrms signal** from J5 to J6.
2. Verify the **ANR switch is in the off position**.
3. Using an oscilloscope, place a probe at **J13**.
4. Place the other probe at **J14**.

If a signal is found, the board is good and if no sound is heard from the speaker, the speaker or wiring is bad. Determine if the speaker needs to be replaced or the wires need re-soldering.

If a signal is not found, the board is not good and should be replaced.

5.4.4 Validate the non-boom side PCBA

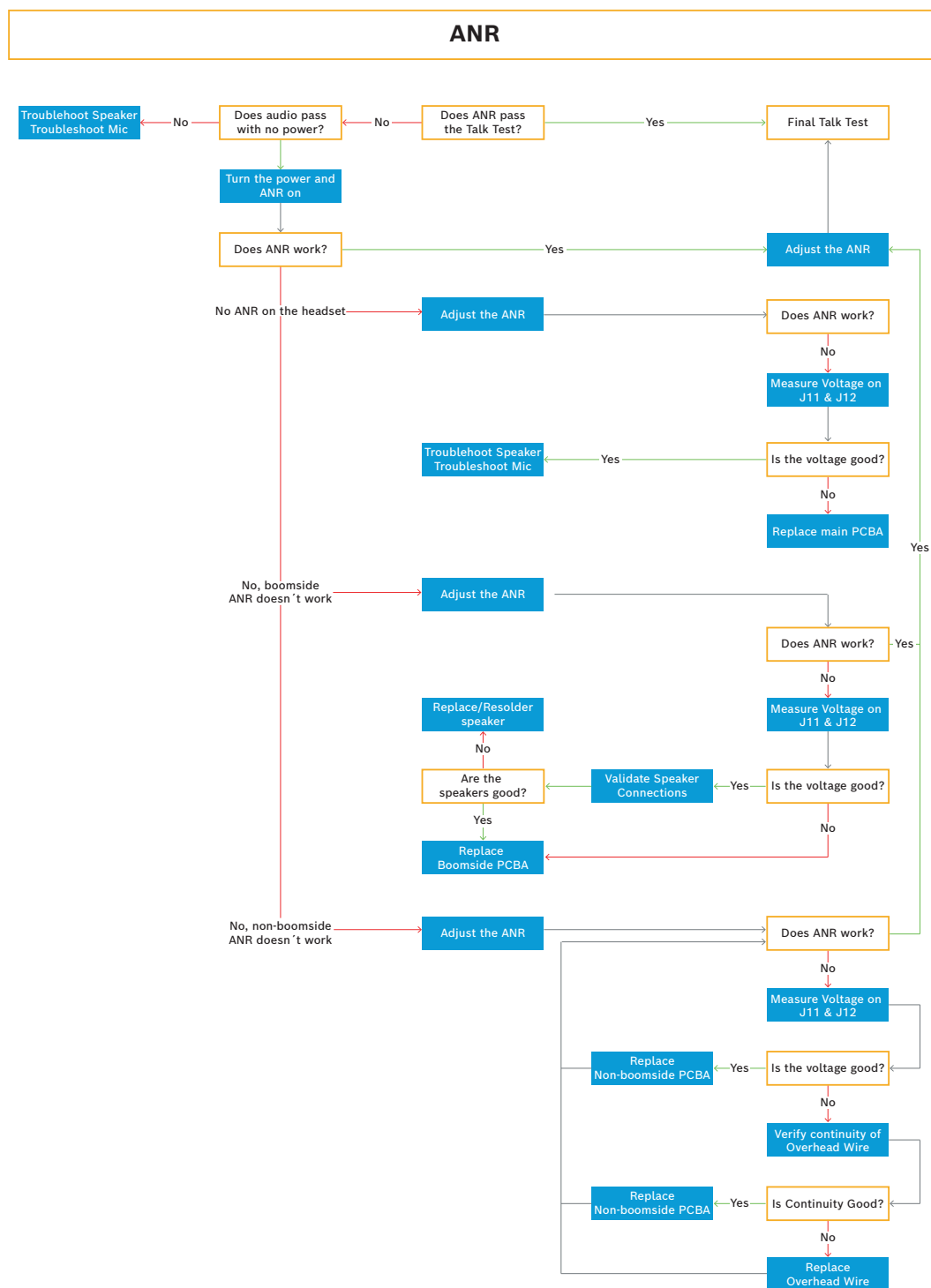
To **validate the non-boom side PCBA**, do the following:

1. On the non-boom side PCBA, send a **1kHz sine wave, 1Vrms signal** from J5 to J6.
2. Verify the **ANR switch is in the off position**.
3. Using an oscilloscope, place a probe at **J13**.
4. Place the other probe at **J14**.

If a signal is found, the board is good and if no sound is heard from the speaker, the speaker or wiring is bad. Determine if the speaker needs to be replaced or the wires need re-soldering.

If a signal is not found, the board is not good and should be replaced.

5.5 ANR troubleshooting



5.5.1 Measuring ANR circuit voltages and switch function

**Notice!**

This headset was designed, tested, and approved to FAA TSO C139a. The TSO requires the headset meet the minimum performance specifications as defined in RTCA DO-214a. This document and specifications listed here reference the test procedures and equipment used as defined in these standards. Refer to the standard for details on how to perform individual tests.

**Notice!**

Minimum attenuation requirements are not requirements of FAA TSO. To achieve the minimum attenuation, Bosch approved test system is required.

To **measure voltage and switch function on the boom side**, do the following:

1. Verify the **headset main cable plugs are on**.
2. Using a voltage meter, place the **ground probe at J10**.
3. Place the **positive probe on TP14**.
If the measurement is 3.3Vdc, the power regulator is good. If the measurement is anything other than 3.3Vdc $\pm 10\%$, the power regulator is bad. Replace the board.

To **measure the switch functionality on the boom side**, do the following:

1. If the regulator is good, verify the **ANR switch is in the off position**.
2. Place the **positive probe at J11**.
If the measurement is near zero, the switch is open.
3. Move the **ANR switch to the on position**.
If the measurement is at 3.3Vdc $\pm 10\%$, the switch is good. If the measurement is anything else, the switch is bad. Replace the board.

To **measure the fail-safe control logic for ANR**, do the following:

1. Verify the **ANR switch is in the on position**.
2. Place the **voltage meter probe at J12** on the boom-side.
If the measurement is greater than -6Vdc, the fail-safe logic is working properly. If the measurement is anything below -6Vdc, the fail-safe logic is not working. Replace the board.

To **measure voltage and switch function on the non-boom side**, do the following:

1. If the boom side is good, place the **positive probe at J11 on the non-boom side**.
If the measurement is near 0, the switch is open
2. Move the **ANR switch to the on position**.
If the measurement is at 3.3Vdc $\pm 10\%$, the switch is good. If the measurement is anything else, the switch is bad. Replace the board.

To **measure the fail-safe control logic for ANR**, do the following:

1. Verify the **ANR switch is in the on position**.
2. Place the **voltage meter probe at J12 on the non-boom-side**.
If the measurement is greater than -6Vdc, the fail-safe logic is working properly. If the measurement is anything below -6Vdc, the fail-safe logic is not working. Replace the board.

**Notice!**

For board replacement, contact Bosch ASA or a Bosch certified facility for replacement and adjustment.

5.6 Cleaning the headset and connectors

**Caution!**

Do not allow alcohol or any liquid to touch the speaker or microphone element directly.

To **clean the headset**, do the following:

- ▶ Using a mild detergent with water and a soft towel, or isopropyl alcohol wipes, clean the plastic and metal headset parts.

**Caution!**

Do not soak or allow liquid to puddle on the unit.

5.7 Cleaning the ear cushions and headband pads

**Caution!**

Do not soak the cushions or pads.

To **clean the ear cushions and headband pad**, do the following:

- ▶ Using a damp (not wet) soft towel or isopropyl alcohol wipe, gently wipe the **ear cushions and headband pad** thoroughly.

5.8 Replacing ear cushions and headband pads

To ensure optimal product performance, it is recommended you replace ear cushions and headband pads periodically (every six months, or sooner if needed). See *Recommended maintenance schedule*, page 11.

For detailed instructions on replacing the ear cushions, refer to *Ear cushion replacement*, page 21.

For detailed instructions on replacing the headband pads, refer to *Headband pad and headband pad replacement*, page 22.

5.9 Installing and replacing the hygienic covers

**Notice!**

Two hygienic covers are included with the headset. However, extra hygienic covers can be purchased separately.

To **replace the hygienic covers**, do the following:

1. Grasp the **edge of the hygienic cover** where it folds into the slot on the ear cup.
2. Gently pull the **hygienic cover** up and away from the ear cup.
3. Starting at the top of the ear cup, carefully work the **cover** around the ear cup until it is in place.

5.10 Replacing the windscreen

The foam windscreen can be cleaned using low-pressure air to blow contaminants off the exterior. If low-pressure air does not provide effective results, the windscreen should be replaced.



Caution!

Do not use any liquid on the foam windscreen.

To **remove the windscreen**, do the following:

- ▶ Grasp the **microphone windscreen** and gently pull away from the microphone.

To **replace the windscreen**, do the following:

- ▶ Slide the **new windscreen** over the microphone.

5.11 Headset storage

To **store the headset**, do the following:

1. Move the **boom mic above the headband**.
2. Coil the **cord** into a loop.
3. Place the **coiled cord and headset** in the carrying case.

6 Disassembly

The following procedure describes the complete disassembly of the Airman 8+ headset.



Notice!

The removal process requires the following steps to be followed in the order described. Assembly is the reversal of the disassembly procedure. Please take care when disassembling to note details that may be required in the reassembly process, such as the locations of disconnected wires.

When soldering, be careful not to touch the plastic housing of the headset/headphone with the soldering iron.



Notice!

Only disassemble parts that are necessary for the repair.

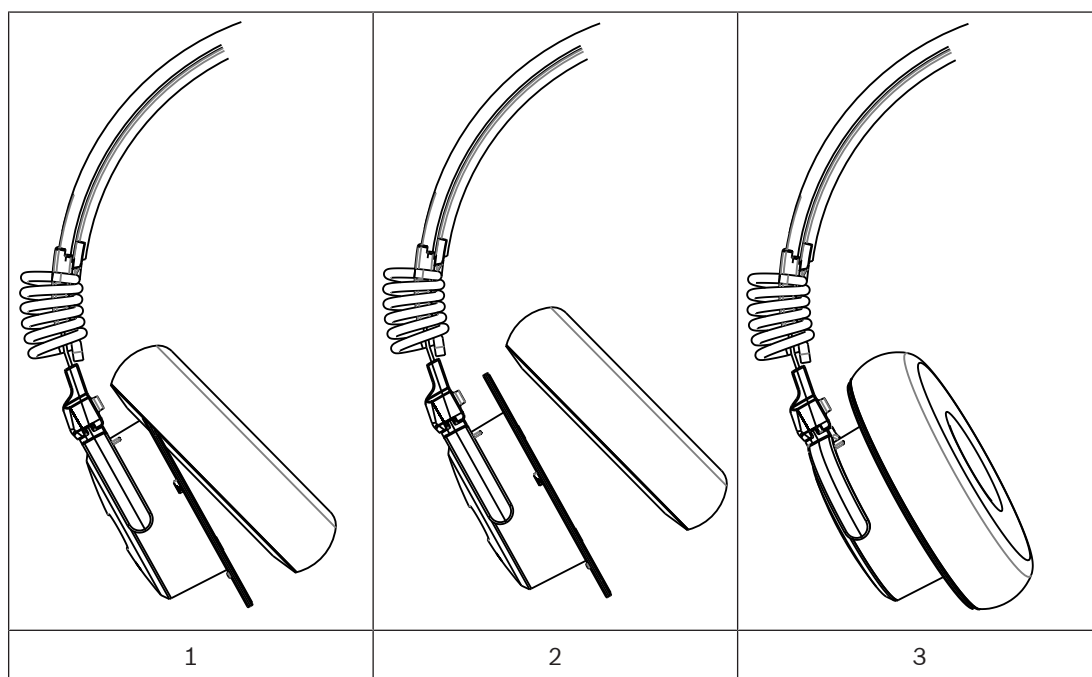
6.1 Ear cushion replacement

To ensure optimal product performance, replace cushions and pads periodically.

For the recommended maintenance schedule, please refer to *Recommended maintenance schedule*, page 11.

To **replace the ear cushions**, do the following:

1. Grasp the **edge of the ear cushion** where it folds into the slot on the ear cup.
2. Gently pull the **ear cushion up and away** from the ear cup.
3. Starting at the **top of the ear cup** (1), carefully work the **cushion around the cup** (2) until it is **in place** (3).

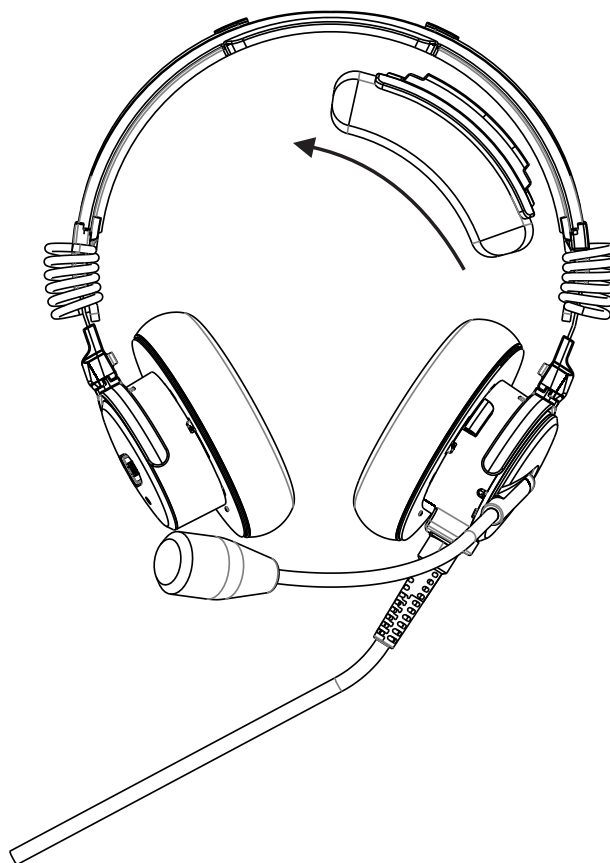
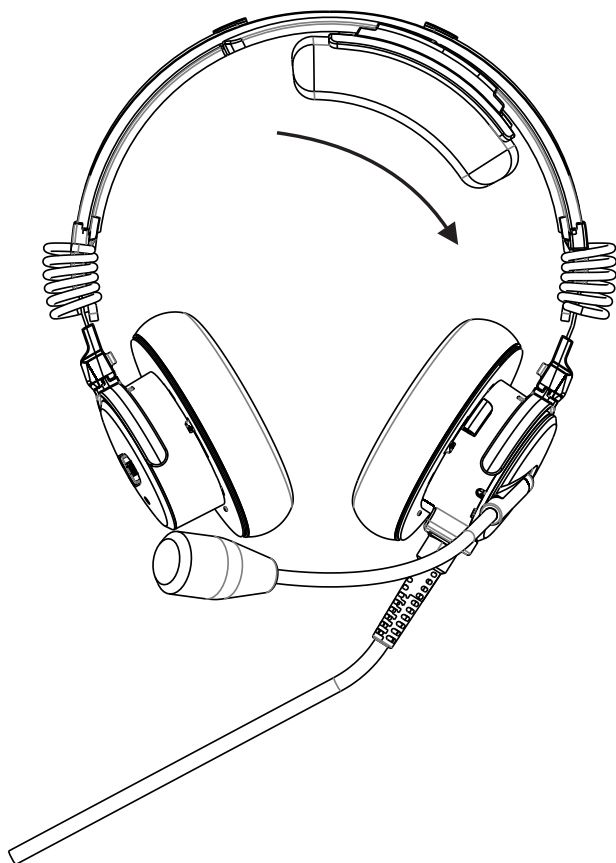


4. Verify the **replacement** is acceptable by visually inspecting around the cushion before use.

6.2 Headband pad and headband pad replacement

To **replace the headband pads**, do the following:

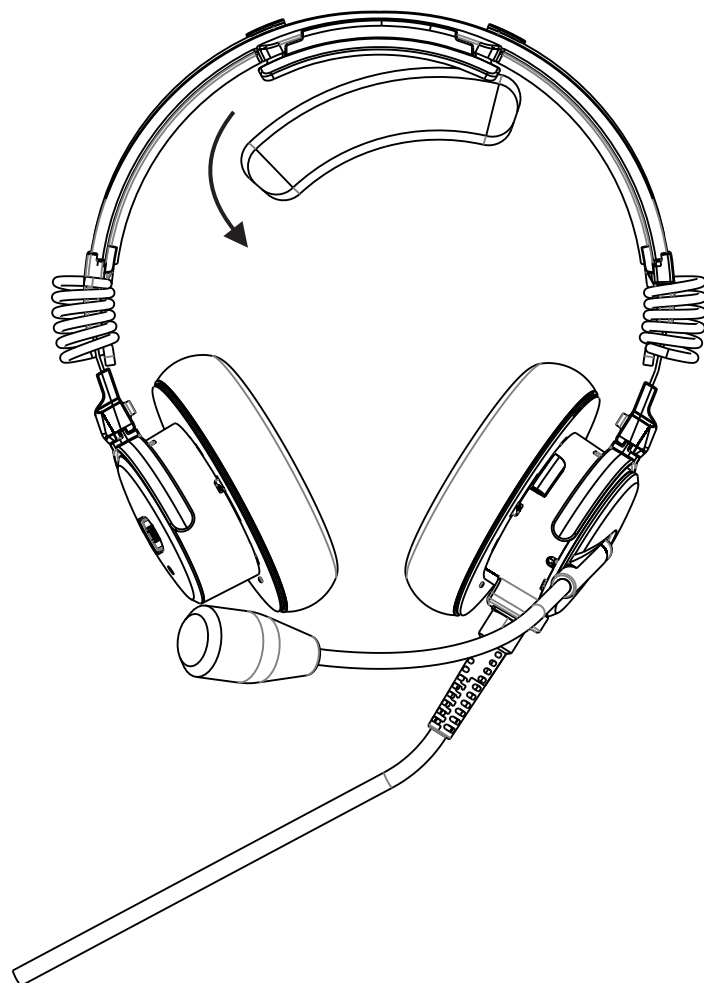
1. At one end of the headband pad holder, carefully slide the **holder** from the headband cover.



2. With the new headband pad holder, slide the **headband pad holder** over the headband cover.

To **replace the headband pad**, do the following:

1. Grasp the **edge** of the headband pad.



2. Gently pull the **headband pad** away from the headpad holder.
3. Align the **new headband pad** with the Velcro on headpad holder.

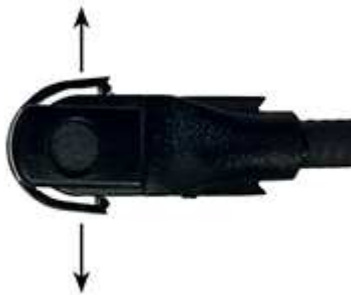


4. Firmly press **the new headband pad** into place.

6.3 Remove the mic prefilter

To **remove the prefilter**, do the following:

- ▶ Carefully pry the **prefilter** from the mic.



6.4 Remove the yoke assembly from the headband assembly

To **remove the yoke assembly from the headband assembly**, do the following:

1. Use a fingernail to lift the **bottom edge of the black plastic spacer**.
2. Swivel the **black plastic spacer** to the side and remove it from the assembly.



3. Slide the **yoke assembly** off of the headband.

6.5 Boom side disassembly

To **remove the speaker assembly and sleeve**, do the following:

1. At the same time, push the **two retaining cams** located in the speaker assembly out of the way.
2. Rotate the **speaker faceplate** approximately 15° clockwise.



3. Using a T-5 screwdriver, remove **three screws** (as shown).



4. Remove the **house and the yoke/glider assembly**.



5. Using a T-5 screwdriver, remove **two screws** (as shown).



6. Remove the **PCBA**.
7. Using a soldering iron, carefully **disconnect the wires** from the speaker, overhead cord, boom mic assembly, and ANR mic solder terminals, as needed.

**Notice!**

Take care to avoid touching the plastic housing with the soldering iron.

6.6

Non-boom side disassembly

To **remove the speaker assembly and sleeve**, do the following:

1. Pushing the two retaining cams simultaneously on the speaker assembly, rotate the **speaker faceplate approximately 15° clockwise**.

**Notice!**

To avoid pulling the wires from the board, do not pull the speaker assembly more than 12mm from the ear shell.

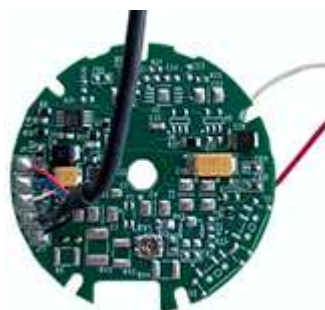
2. Using a T-5 screwdriver, remove **three screws** (as shown).



3. Remove the **house and the yoke/glider assembly**.



4. Using a T-5 screwdriver, remove **two screws** (as shown).
5. Remove the **PCBA**.
6. Using a soldering iron, carefully disconnect the **wires from the speaker and overhead cord**, and ANR mic solder terminals, as needed.



7

7.1

Assembly

Boom side assembly

To **assemble the boom side assembly**, do the following:

1. Solder the **overhead cord** to the PCBA.

J11	Red
J12	Blue
J9	White
J10	Shield
J17	Black



2. Solder the **cable assembly** to the PCBA.
3. Thread the **boom mic wires** through the center hole.
4. Using the two shorter screws, attach the **PCBA** to the boom mic assembly.
5. Solder the **boom mic wires to the PCBA**.



Notice!

Use shield as an anchor point so there is slack on smaller wires.

J7	Red
J8	Green
J18	Shield



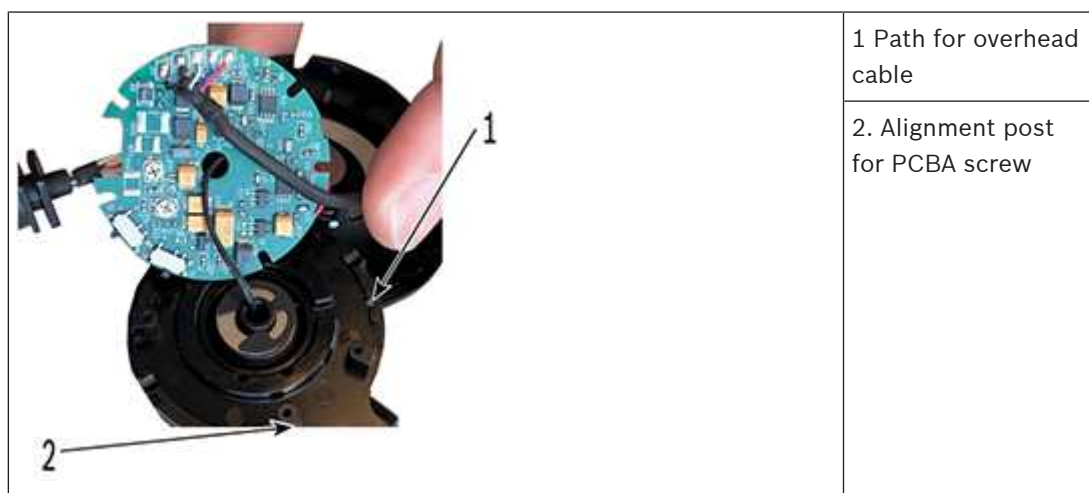
6. Solder the main cord to the PCBA

	PJ	XLR
J5	Yellow	
J6	No connection	
J2	Drain wire + blue	
J1	White	
J15	No Conn.	Red

7. Route the **speaker wires** through the housing and solder to the PCBA.

J13	Red
J14	White

8. Route the **overhead cord** and the **headset cord** through the corresponding grooves provided on the boom.



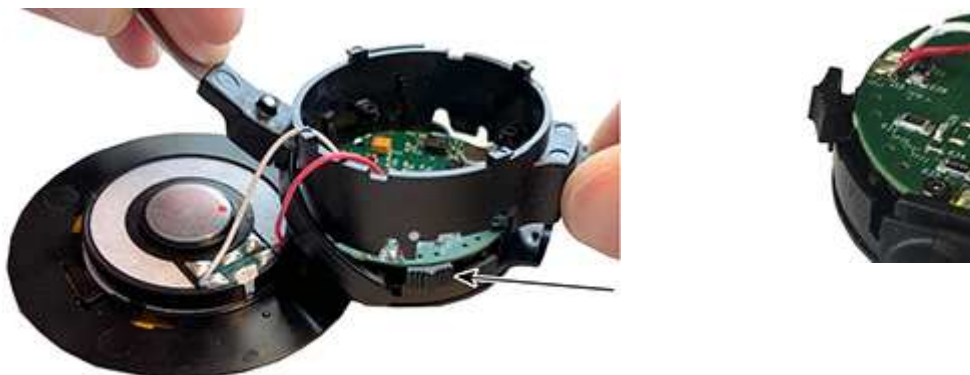
9. Place **yoke** on the housing.



Notice!

Take care to verify the orientation of the yoke, because it does not rotate 360°.

10. Place the **switch cover** on the ANR switch.



**Notice!**

The side with the deep grooves goes toward the speaker.

11. Place the **housing** on the boom mic assembly.
12. Make sure the overhead cord is in the correct slot and the jacket is fully inside the housing. Also, make sure the headset cord is properly located in the housing.



13. Using a T-5 screwdriver, replace the **three screws** (as shown) to attach the yoke and housing to the PCBA.



14. Position the **overhead cord** in the guide, and then align the knob of the faceplate toward the bottom.
15. Align the **four tabs** on the faceplate, and then rotate counterclockwise to lock.

**Notice!**

Verify all four tabs engage and retaining tabs are in the groove.



16. Carefully wind the **overhead cord** around the glider.

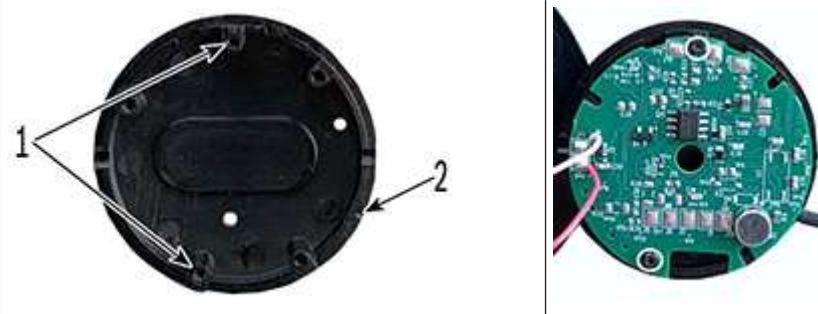
7.2 Non-boom side assembly

To **assemble the non-boom side assembly**, do the following:

1. Solder the **overhead cord** to the PCBA.

J11	Red	
J12	Blue	
J9	White	
J10	Shield	
J17	Black	

2. Using the two shorter screws, attach the **PCBA** to the cover.

	
1	Alignment posts for PCBA screw
2	Path for overhead cord

3. Solder the **wires** to the speaker.



Notice!

Align the red wire with the polarity dot on the speaker (as shown)

J13	Red	
J14	White	

4. Route the **speaker wires** through the housing and solder to the PCBA.
5. Place **yoke** on the housing.

**Notice!**

Take care to verify the orientation of the yoke, because it does not rotate 360°.

6. Place the **cover** on the housing.



7. Using a T-5 screwdriver, replace the **three screws** (as shown) to attach the yoke and housing to the PCBA.



8. Position the **overhead cord** in the retaining clip and align the **knob** of the faceplate toward the bottom.
9. Align the **four tabs** on the faceplate, and then rotate counterclockwise to lock.

**Notice!**

Verify all four tabs engage and retaining tabs are in the groove.



10. Carefully wind the **overhead cord** around the glider.

7.3 Attach the prefilter

To **attach the prefilter**, do the following

- ▶ Carefully clip the **prefilter** to the mic.



7.4 Replace the yoke assembly on the headband assembly

To **replace the yoke assembly on the headband assembly**, do the following:

1. Slide the **yoke assembly** onto the headband.



2. Place the **glider stop** in the appropriate hole on the glider.
3. Swivel the **spacer** in line with the glider.



4. Click the **bottom edge of the black plastic spacer** into the retaining hole.

7.5 Reinstall the headband cover

To **reinstall the headband cover**, do the following:

1. Take care to verify the **overhead cord** lays between the guides.
2. Ensure the **cover** fully encloses around the headband at both sides.



8 Wiring Diagrams and Connectors

Airman 8+ Series headsets are available with multiple connector styles depending on the application of use. All models utilize custom cables developed specifically for in cockpit use. All connection points implement strain and bend relief features to provide long-term durability. Shielded wire throughout the headset protects against **RFI** (Radio Frequency Interference) and **EMI** (Electromagnetic Interference).

PJ-068 / PJ-055 Connector Diagram for Airman8+ - 0210

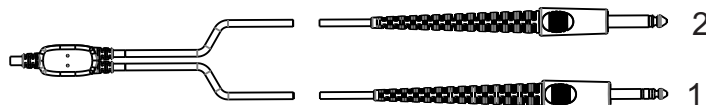


Figure 8.1: PJ Connector

1	PJ-068 or equivalent	Description
	Tip	Not Used
	Ring	Mic Signal (ANR Power +)
	Sleeve	Mic GND (ANR Power -)
2	PJ-055 or equivalent	Description
	Tip	Headphone Signal
	Sleeve	Headphone GND

5-Pin XLR Aircraft Cable

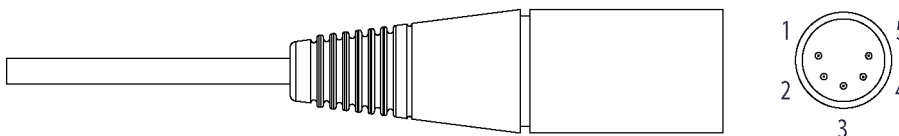


Figure 8.2: 5-pin XLR Connector

Pin	Description	Color
1	Headphone Signal	Yellow
2	Headphone GND	Black/Outer Shield
3	Mic Power and Signal (ANR Power +)	White
4	Mic Power and Signal (ANR Power -)	Blue/Inner Shield
5	ANR Power	Red



Notice!

The Airman 8+ automatically uses power from pin 5, if it is provided by the aircraft.

F01U373590, AIRMAN 8+ 2PJ, HEADSET WIRING DIAGRAM.

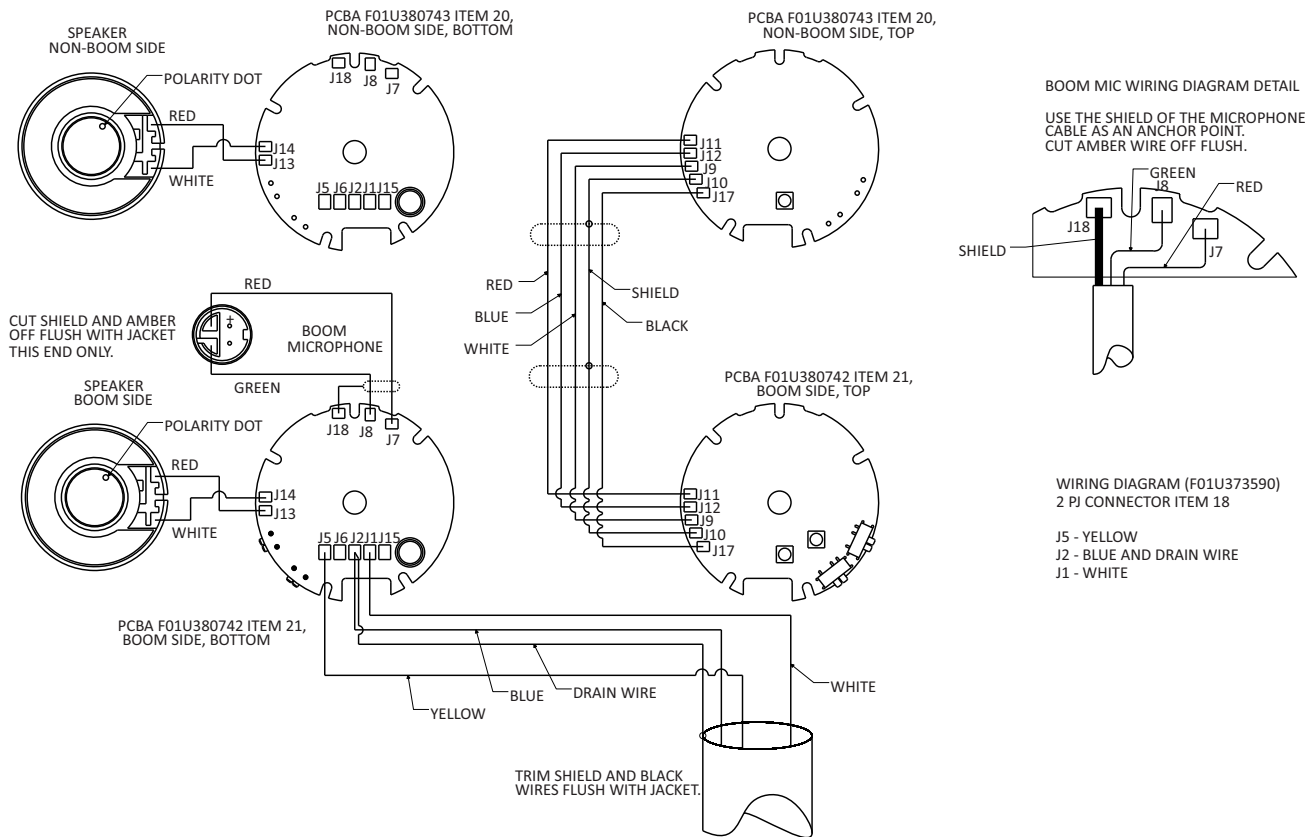


Figure 8.3: Airman 8+ 2PJ Wiring Diagram

F01U373591 AIRMAN 8+ XLR HEADSET WIRING DIAGRAM.

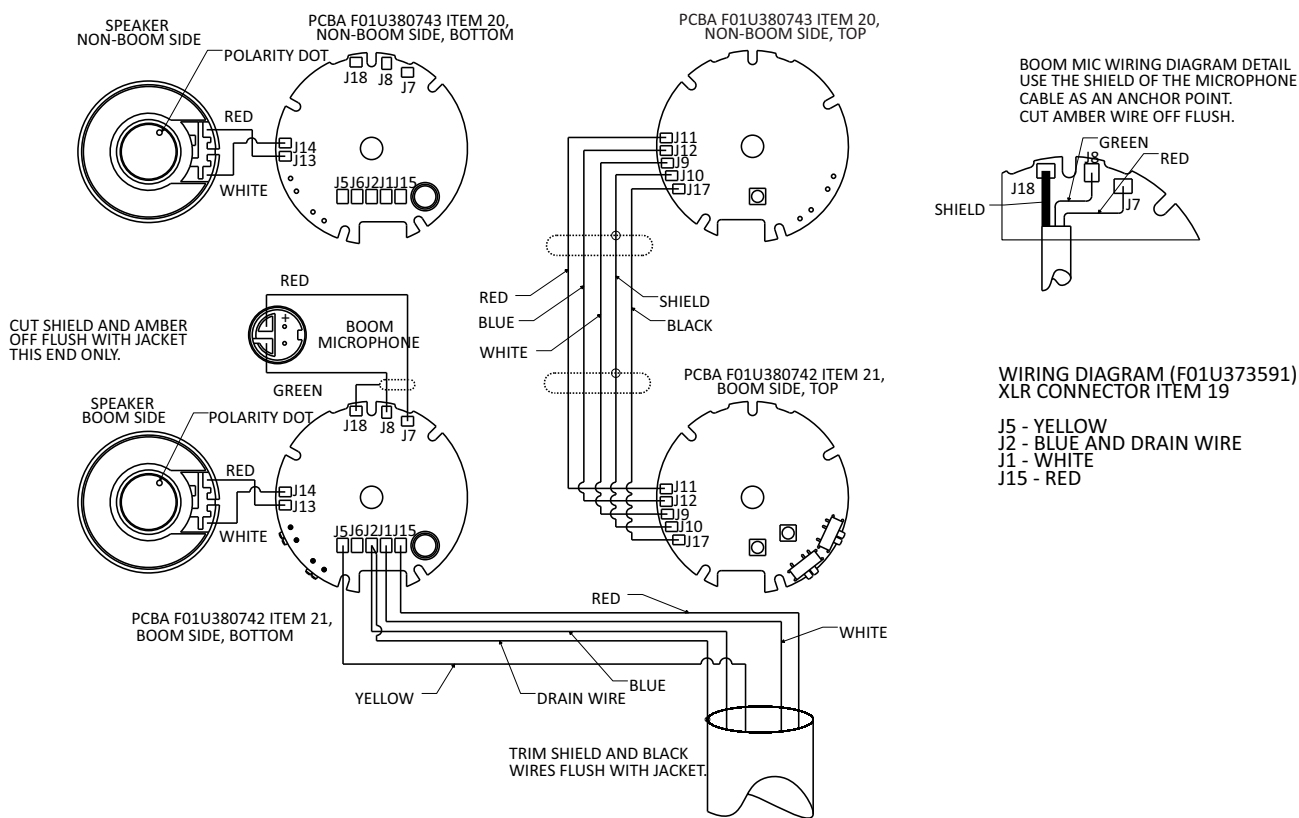


Figure 8.4: Airman 8+ XLR Wiring Diagram

The logo consists of the word "TELEX" in a bold, white, sans-serif font. The letters are outlined with two thin horizontal lines, one above and one below the text. The logo is positioned on a blue rectangular background.

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