TELEX

AIRMAN8+

AIRMAN8P-0210 DOUBLE SIDE ANR HEADSET 2PJ,600 OHM
AIRMAN8P-0211 DOUBLE SIDE ANR HEADSET XLR5,600 OHM
AIRMAN8P-0212 DOUBLE SIDE ANR HEADSET P5P,XLR5,600 OHM
AIRMAN8P-0214 DOUBLE SIDE ANR HEADSET-XLR5,600 OHM

en Operation manual

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1 Front matter

Proprietary notice

The product information and design disclosed herein were originated by and are the property of Bosch Security Systems, LLC. Bosch reserves all patent, proprietary design, manufacturing, reproduction, use and sales rights thereto, and to any article disclosed therein, except to the extent rights are expressly granted to others.

Copyright Notice

Warranty and service

For warranty and service information, see http://www.telex.com/warranty.

Customer support

Technical questions should be directed to:
Customer Service Department
Bosch Security Systems, LLC
http://www.telex.com/aviation
Technical Support
Telex Aviation Technical Support - 1-800-898-6723
After-Sales Support - 1-800-553-5992

Disclaimer

The manufacturer of the equipment described herein makes no expressed or implied warranty with respect to anything contained in this manual and shall not be held liable for any implied warranties of fitness for a particular application or for any indirect, special, or consequential damages. The information contained herein is subject to change without prior notice and shall not be construed as an expressed or implied commitment on the part of the manufacturer.

2 Important!

Read Before Use

General

- Read this technical manual completely before using the product.
- This technical manual is also available at www.telex.com/aviation.

Health and Safety

- Always keep at least 4 in. (~10 cm) between the ear cups and a pacemaker or implanted defibrillator because this product generates magnetic fields.
- Keep away from children - product parts and accessories are a choking hazard.
- With **ANR** (Active Noise Reduction) active, typical aircraft sounds may not sound the same as when not using ANR. Before operating in an aircraft, verify ANR is active and you can hear and recognize sounds properly. Set the volume to a safe level that does not diminish your hearing of alarms and warnings.
- This headset is capable of producing sound pressure over 85 dB (A). In many countries, this is the maximum legal level for continuous noise exposure during the working day. To prevent hearing damage, do not listen at high volume levels for extended periods of time.

Preventing Damage and Malfunctions

- Always keep the headset dry and do not expose it to extreme temperatures to avoid corrosion or deformation.
- Never attempt to repair a headset which is not operating correctly. Contact the Telex dealer you purchased the headset through or an authorized repair facility.
- Only replace parts of the headset whose replacement is described within this manual. All other parts must be replaced by an authorized repair facility.

3 Introduction

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.

- Flexible boom-mounted, noise-reducing microphone that can be positioned for right or left-side use.
- Lightweight, battery-free ANR with onboard fail-safe to ensure constant communication.
- Soft, pliable ear cushions and headband pads.
- Stainless steel headband and pivot points for superior durability.
- FAA TSO C139a approved.

3.1 FAA

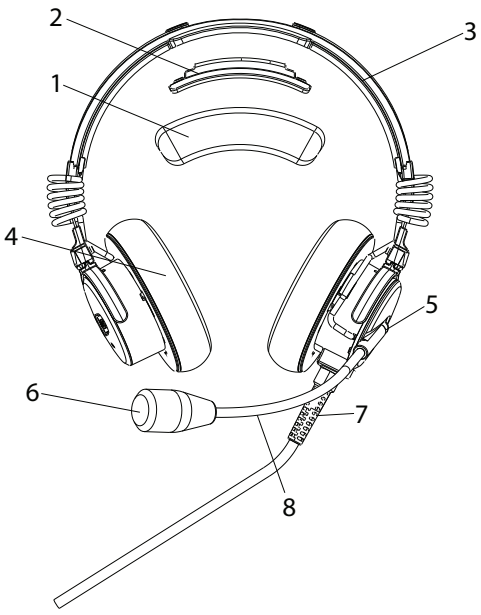
The Telex Airman 8+ Headset is approved for aircraft use under FAA TSO-C139A.
The conditions and tests required for the TSO approval of this article are minimum performance standards. It is the responsibility of those installing this article, either on or within a specific type or class of aircraft, to determine that the aircraft installation conditions are within the TSO standards. TSO articles may have separate approval for installation on aircraft. The article may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements.
Tests were conducted per the minimum standards defined in RTCA DO-214A and DO-160G. The headset was designed and is manufactured to meet the following environmental categories.

Environmental Qualification Form

Conditions		DO-160G Section	Description of Tests Conducted
Temperature and Altitude		4.0	
	Ground Survival Low-Temp / Short-Time Operating Low-Temp	4.5.1	Equipment tested to Category A1
	Operating Low Temperature	4.5.2	Equipment tested to Category A1
	Ground Survival High-Temp & Short-Time Operating High Temp	4.5.3	Equipment tested to Category A1 with 70° C max exception by DO-214a 2.5.1.2
	Operating High Temperature	4.5.4	Equipment tested to Category A1
	In-Flight Loss of Cooling	4.5.5	Not Applicable
	Altitude	4.6.1	Equipment tested to Category A1/15000 ft.
	Decompression	4.6.2	Equipment tested to Category A1/45000 ft.
	Overpressure	4.6.3	Equipment tested to Category A1
Temperature Variation		5.0	Equipment tested to Category C
Humidity		6.0	Equipment tested to Category A
Operational Shock and Crash Safety		7.0	Not Applicable
Vibration		8.0	Equipment tested to Category S aircraft zone 2 (instrument panel or console mounting), Aircraft type 2 (Fixed Wing Turbojet or Turbofan engines), using vibration test curve B.
Explosive Atmosphere		9.0	Not Applicable
Waterproofness		10.0	Not Applicable
Fluids susceptibility		11.0	Not Applicable
Sand and Dust		12.0	Not Applicable
Fungus		13.0	Not Applicable

Conditions	DO-160G Section	Description of Tests Conducted
Salt Fog Test	14.0	Not Applicable
Magnetic Effect	15.0	Equipment tested to Category Z
Power Input	16.0	Equipment tested to Category A
Voltage Spike	17.0	Equipment tested to Category A
Audio Frequency Susceptibility	18.0	Not Applicable
Induced Signal Susceptibility	19.0	Equipment tested to Category ZC
Radio Frequency Susceptibility	20.0	Equipment tested to Category R
Momentary RF	20.0	Equipment tested to Category R
Steady State RF	20.0	Equipment tested to Category R
Emission of RF Energy	21.0	Equipment tested to Category M
Lightning Induced Transient Susceptibility (multiple burst)	22.0	Equipment identified as Category L2
Lightning Direct Effects	23.0	Not Applicable
Icing	24.0	Not Applicable
Electrostatic Discharge	25.0	Equipment tested to Category A
Fire, Flammability	26.0	Equipment tested to FAR PART25 and Appendix F **NOTE**: Some components not tested as they are considered small parts.
Wire Flammability		FAR, Wire tested to Part 25 and appendix F

3.2 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 Connection

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).

Dual-Plug

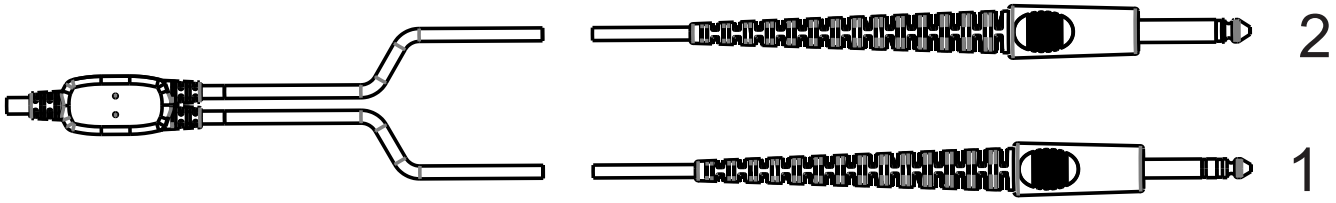


Figure 4.1: PJ Connector

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

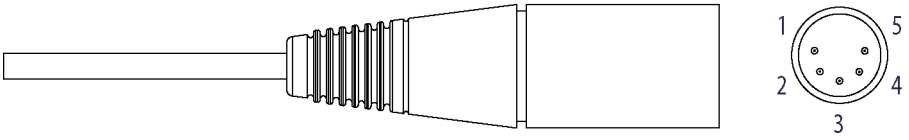


Figure 4.2: 5-pin XLR Connector, AIRMAN8P-0211

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 Airman8P-0211 and Airman8P-0214 automatically switches to power from pin 5 if it is provided by the aircraft.

5-Pin XLR Aircraft Cable, AIRMAN8P-0212 and AIRMAN8P-0214

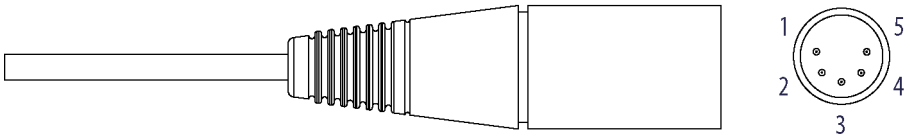


Figure 4.3: 5-pin XLR Connector, AIRMAN8P-0212 and AIRMAN8P-0214

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

Notice!
The AIRMAN8P-0212 requires 8-28 VDC power applied to pin 5 for ANR operation.

Model Comparisons

	AIRMAN8P-0210	AIRMAN8P-0211	AIRMAN8P-0212	AIRMAN8P-0214
Dual phone plug connectors	X			
5-pin XLR Connector		X	X	X
ANR power derived from the aircraft mic bias	X			
ANR can use power from either the microphone bias or XLR pin 5 (if available)		X		X
ANR REQUIRES power from XLR pin 5 in order to function			X	
Microphone and COM utilize a single common ground	X	X		
Microphone and COM grounds are isolated from each other.[A]			X	
Automatic ground switching keeps microphone and COM grounds isolated when XLR pin 5 power is used.[B]				X

A - Intended for aircraft where connecting these grounds together can result in noise or other issues.
B - Provides the best compatibility when the availability of pin 5 power is unknown or when used with multiple aircrafts that have different pin 5 configurations

5 Installation

To install the headset for use, do the following:

1. Inspect the headset for signs of damage. Do not use the headset if signs of damage are evident.
2. Plug the headset into the aircraft console. For more information, see *Plug the headset into the aircraft, page 13*.
3. Adjust the headband. For more information, see *Adjust the headband, page 14*.
4. Adjust the mic for proper use. For more information, see *Adjust the microphone, page 14*.
5. Verify ANR is active. For more information, see *ANR system, page 17*.
6. Attach the clothing clip. Using the clothing clip reduces the cord weight from the headset. For more information, see *Clothing clip assembly and attachment, page 15*.

Notice!
If required, adjust the volume, and then repeat steps 1 through 6.

5.1 Plug the headset into the aircraft

5.1.1 Install the dual plug headset in an aircraft

To **install the dual plug headset in an aircraft**, do the following:

1. Insert the **microphone plug (smaller plug)** into the microphone jack on the aircraft audio panel.
2. Insert the **headset plug (larger plug)** into the headset jack on the aircraft audio panel.

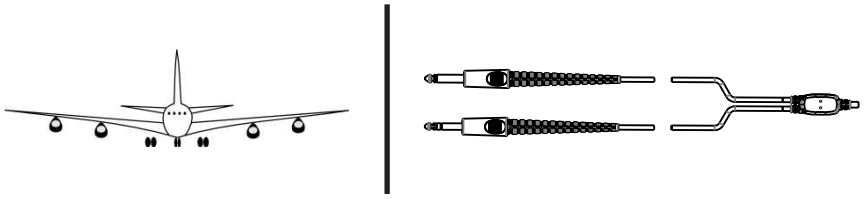


Figure 5.1: PJ Connector Installation

5.1.2 Install the XLR plug headset in an aircraft

To **install the XLR plug in an aircraft**, do the following:

- Insert the **XLR plug into the XLR jack** on the aircraft audio panel, taking care to properly align the signal pins.

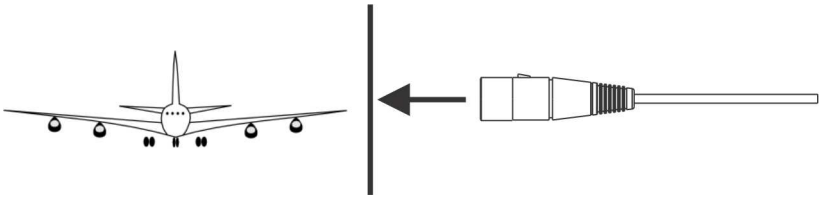


Figure 5.2: XLR Plug Installation

5.2 Adjust the headband

The Airman 8+ headset is designed to rest evenly on top of the head with each ear cup sitting centered and flush on each ear. The headset should fit over the head without pinching or gapping.

To **adjust the headband size**, do the following:

1. Secure the **headset** on the top of the head.
2. Slide **the ear cup up and down to center the ear cup over the ear**.

Notice!
The headset works best when the headband pad is centered on the head. Both sides of the headset should be slid evenly for proper use.

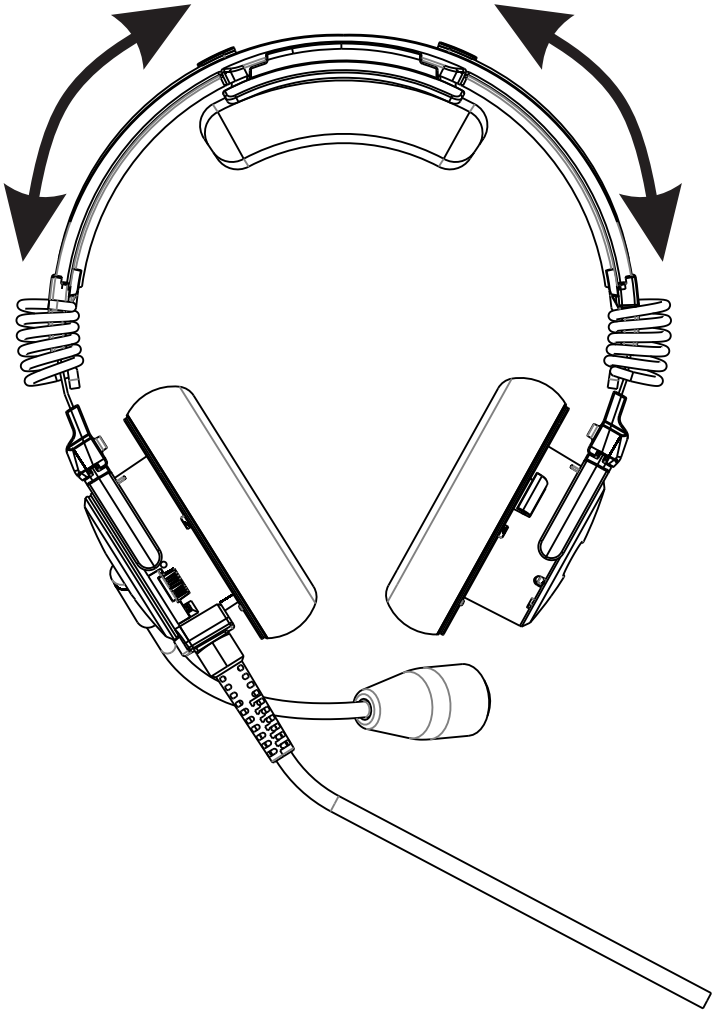


Figure 5.3: Headband Adjustment

5.3 Adjust the microphone

The headset ships with the boom positioned at the top of the headband.

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

- Move the **entire boom** overhead to wear the mic on either the right or left side of the head.

Caution!
There are boom rotation stops on each side of the boom rotation. The boom mic is adjusted upward to move to the other side of the headset.
Do not adjust the boom past the built-in stops. Adjusting the boom past the built-in stops will damage the microphone.

To **properly place the mic**, do the following:

1. Move the **boom** to the preferred side of the headset.
2. Bend the **boom** to put the mic in front of the mouth.

Notice!
For best noise-cancelling quality, put the boom mic as close to the mouth as possible and talk into the mic.

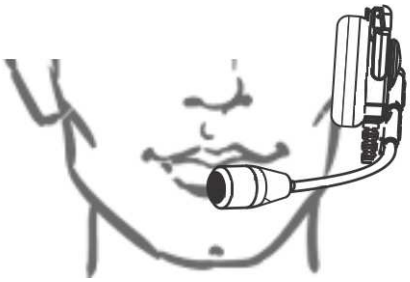


Figure 5.4: Mic Placement

5.4 Clothing clip assembly and attachment

Using the clothing clip reduces the cord weight from the headset. The clothing clip comes attached to the cord and only needs to be adjusted up or down, for best use.

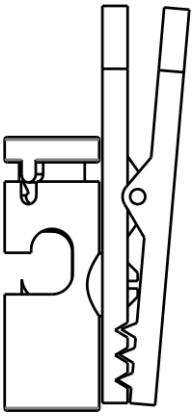
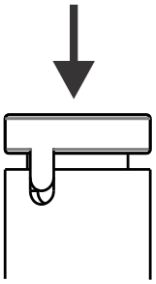


Figure 5.5: Clothing Clip

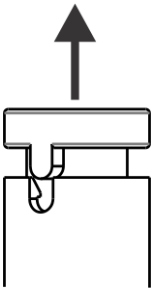
To **assemble the clothing clip**, do the following:

1. Align the **notch**



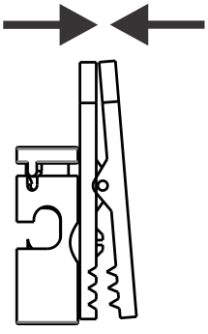
2. Depress the **button**.
3. Thread the **headset cable through the cable tunnel**.

4. Release the **button** to secure the cable.



To **attach the clothing clip**, do the following:

1. Pinch the **levers** together to open the clip.



2. Attach the **clip** to the clothing. Allow enough slack in the cable for movement.
3. Release the **clip** to secure it to your clothing.

6 Operation

6.1 ANR system

ANR (Active Noise Reduction) is used to reduce unwanted noise in the headset from the surrounding environment. By reducing unwanted background noise, the user is able to reduce the volume level of the intended sounds providing more intelligible communications and long-term hearing safety.

The AIRMAN8P-0211 and AIRMAN8P-0212 use power obtained from the aircraft through the boom microphone connection (microphone bias voltage).

The AIRMAN8P-0211 and AIRMAN8P-0214 can also use power from pin 5 of the XLR connection, if available.

The AIRMAN8P-0212 requires 8-28 VDC applied to pin 5 of the XLR for ANR operation.

The ANR system only works properly when power is received from the aircraft continuously. If power to the headset is lost, the failover system automatically reroutes audio to the speaker so you can still hear communications, even though ANR is not functioning.

If power to the headset is lost, the failover system automatically reroutes audio to the speaker so you can still hear communications, even though ANR is not functioning properly.

Notice!
ANR is only available when power is applied to the microphone or pin 5 of the XLR connection. When conditions allow for power only during push-to-talk, keep the ANR power switch in the off position. Leaving the ANR power switch in the on position in these intermittent power conditions can result in unintended ANR performance.

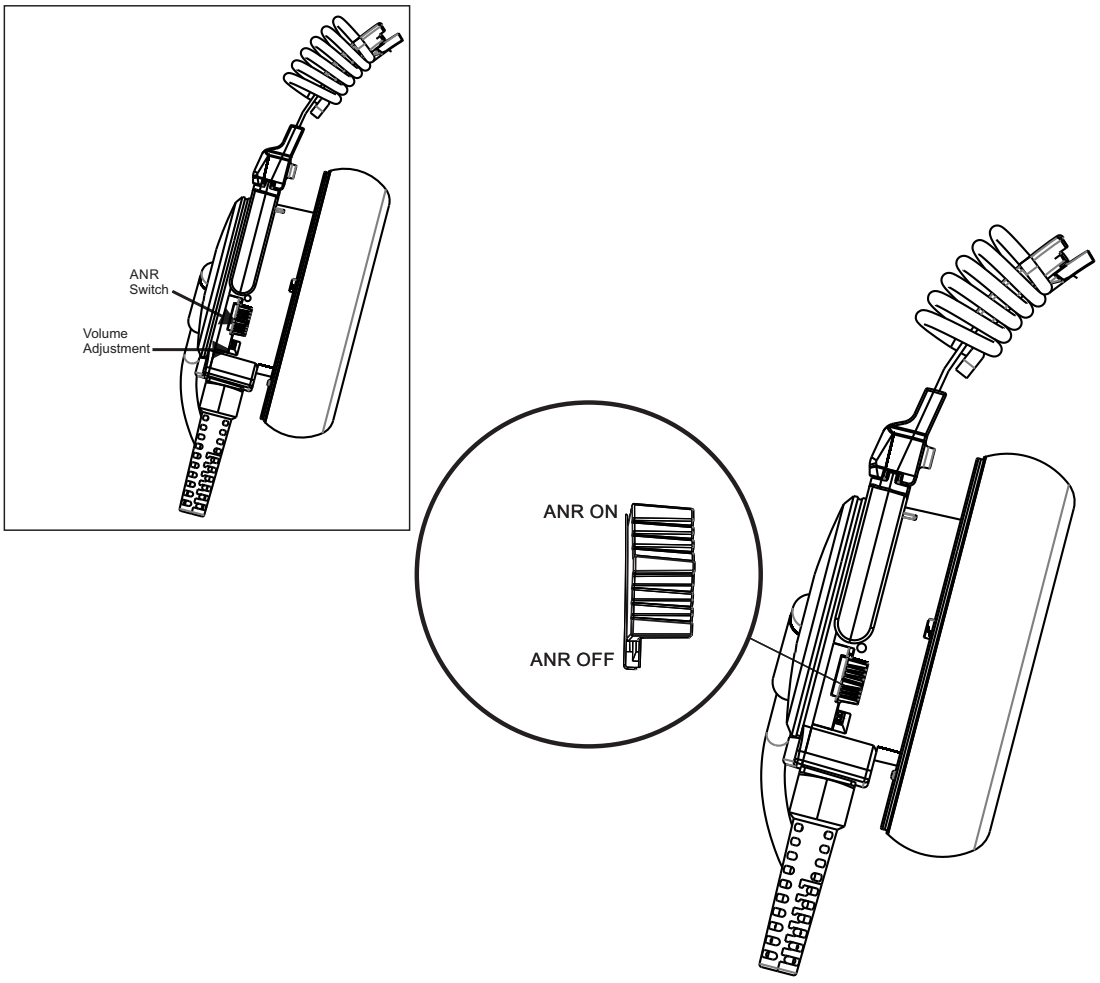


Figure 6.1: ANR Switch

Notice!
The ANR switch ships in the on position and usually does not need to be turned off.

To **start ANR**, do the following:

- Move the **ANR switch** into the up position (located on the ear cup with the mic).

6.2 Headphone volume adjustment

The Airman 8+ is equipped with a headset volume adjustment switch. When required, the user can increase or decrease the headphone volume level by moving the switch from normal to high.

Notice!
The Airman 8+ is shipped in the normal position and functions properly with most avionics equipment. Under normal circumstances, volume adjustment is not required. The volume adjustment only affects the headphone volume, not the boom mic. If the high setting is used, the boom mic sidetone level may seem low. If so, it should be adjusted on the radio or intercom to compensate.

Caution!
The headset is capable of producing high SPLs (Sound Pressure Levels). High volumes and/or long durations can damage hearing.

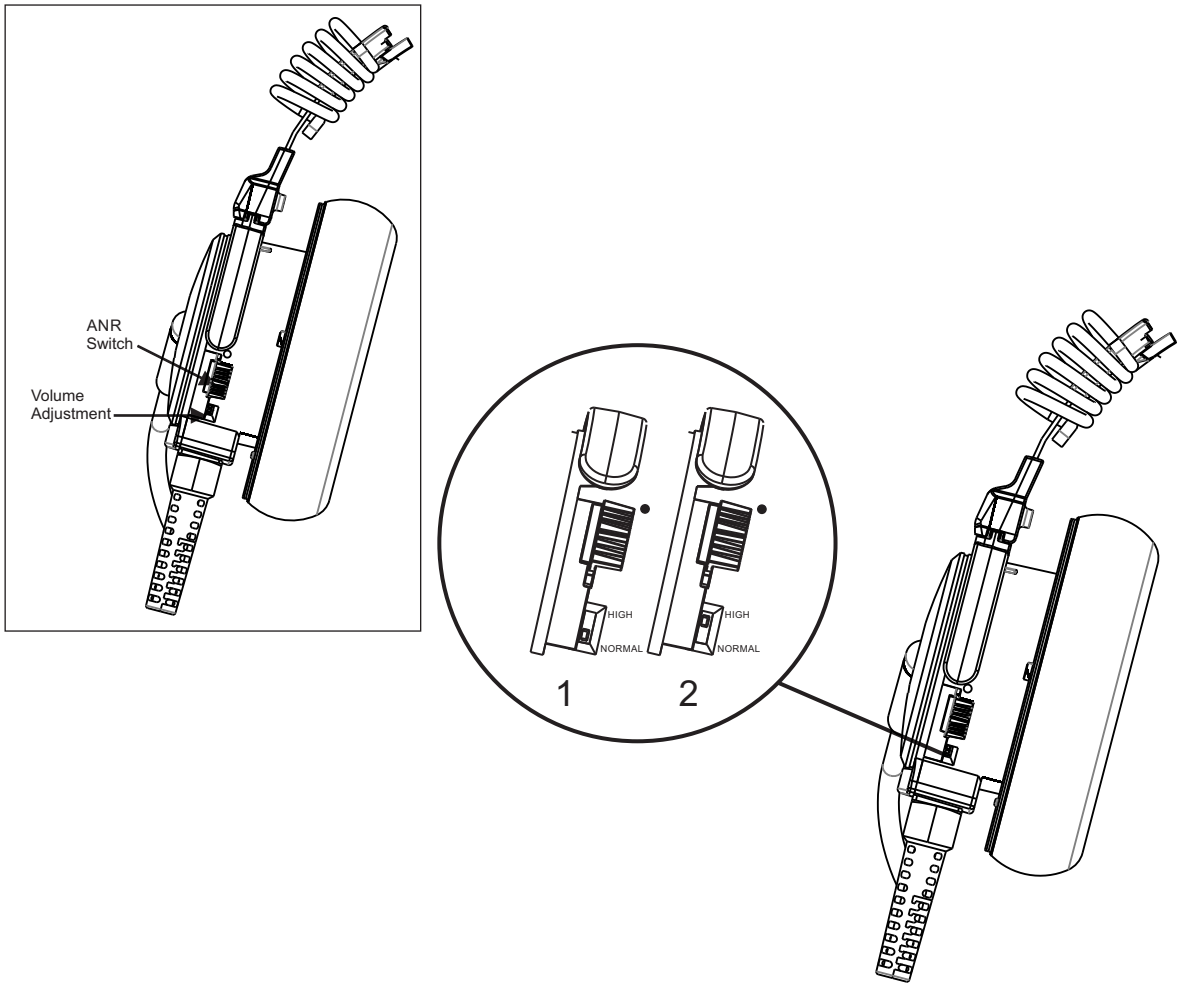


Figure 6.2: Volume Switch

Notice!
Because this switch is inside the headset, use a small pointed object, such as a paperclip, to change the switch setting.

7 FAQ

7.1 Troubleshooting

Issue	Possible Cause	Solution
No one can hear me when I talk	Microphone not connected correctly.	Make sure the microphone is plugged in correctly. Make sure there are no breaks or damage to the cord. (If damaged, headset needs to be serviced.)
	Microphone is not placed correctly.	Reposition microphone to correct location closely to the front of the mouth. For more information on mic placement, see *Adjust the microphone, page 14*.
	Intercom system is not adjusted properly, not functioning, or compatible with microphone.	Authorized avionics technician needs to make sure compatibility and proper function of the intercom.
	Microphone gain is not adjusted properly.	Authorized avionics technician or repair facility needs to adjust and test microphone amplifier.
	Microphone is not functioning.	Return headset to an authorized repair center for maintenance.
Others only hear me sporadically or my voice is distorted and unintelligible	Microphone is not placed correctly.	Reposition microphone to correct location, close to the front of the mouth. Also, try rotating microphone to assure proper orientation. For more information on mic placement, see *Adjust the microphone, page 14*.
	Microphone windscreen is missing or needs to be replaced.	Replace the windscreen. For more information on windscreen replacement, see *Replace the windscreen, page 32*.
	Pilot is speaking too loudly or too quietly into the microphone.	Alter speaking level. Increase the sidetone level on the radio or intercom.

Issue	Possible Cause	Solution
	Intercom system is not adjusted properly, not functioning, or compatible with microphone.	Authorized avionics technician needs to make sure compatibility and proper function of the intercom.
	Microphone gain is not adjusted properly.	Authorized avionics technician or repair facility needs to adjust and test microphone amplifier.
	Microphone is not functioning.	Return headset to an authorized repair center for maintenance.
I cannot hear anyone who is trying to speak to me	Headphones not connected correctly.	Make sure the microphone is plugged in correctly. Make sure there are no breaks or damage to the cord.
	Headphones are not worn properly	Reposition headphones to ensure properly covering the ear. For more information on proper position, see *Adjust the headband, page 14*.
	Intercom system is not adjusted properly, not functioning, or compatible with headphones.	Authorized avionics technician needs to make sure compatibility and proper function of the intercom.
	Headphone volume setting is not adjusted properly.	Adjust volume, as required (if equipped). For more information on volume adjustment, see *Headphone volume adjustment, page 19*.
	Headphones are not functioning.	Return headset to authorized repair center for maintenance.
	Sidetone volume levels are not correct (only applies to not being able to hear yourself over sidetone.	Adjust the sidetone level on the intercom or radio system, if applicable. The headset does not create or modify sidetone level.
I hear others only sporadically or what I hear is distorted and unintelligible	Headphones have poor connection to the aircraft.	Check and clean connectors and re-connect to the aircraft.

Issue	Possible Cause	Solution
	Headphones are not worn properly	Reposition headphones to ensure properly covering the ear. For more information on proper position, see *Adjust the headband, page 14*.
	Headphone ear cushions are missing or need to be replaced.	Replace ear cushions.
	Intercom system is not adjusted properly, not functioning, or compatible with headphones.	Authorized avionics technician needs to make sure compatibility and proper function of the intercom.
	Headphone volume setting is not adjusted properly.	Adjust volume, as required (if equipped). For more information on volume adjustment, see *Headphone volume adjustment, page 19*.
	Headphones are not functioning.	Return headset to authorized repair center for maintenance.
Headphones are not blocking background noise	ANR power switch is not set to the on position.	Switch the ANR power switch to the on position.
	Power is not being received from the aircraft.	Have an authorized avionic technician make sure the microphone is powered correctly.
	Ear cushion is not properly installed.	Make sure ear cushions are properly installed or replace, if damaged. For more information on ear cushion replacement, see *Replace the ear cushions, page 27*.
	Headphones are not worn properly	Reposition headphones to ensure properly covering the ear. For more information on proper position, see *Adjust the headband, page 14*.
	ANR system is not functioning.	After verifying all proper connections and microphone is provided needed power, then return headset for repair.

Issue	Possible Cause	Solution
	ANR function is not compatible with Aircraft systems.	Contact Bosch customer service to determine if there are any known compatibility issues.
	Aircraft has a grounding or other system related problem.	Authorized avionics technician needs to make sure all grounding of avionics systems is connected properly.
Headphones are oscillating, creating unexpected noise, or are only blocking background noise intermittently	Power is not being receive from the aircraft.	Authorized avionics technician need to make sure the microphone is working.
	Headset is not working.	Verify the connectors are clean and not damaged and ensure the connectors are fully inserted.
	Ear cushion is not properly installed.	Make sure ear cushions are properly installed or replace, if damaged. For more information on ear cushion replacement, see *Replace the ear cushions, page 27*.
	Headphones are not worn properly	Reposition headphones to ensure properly covering the ear. For more information on proper position, see *Adjust the headband, page 14*.
	ANR system is not functioning.	After verifying all proper connections and microphone is provided needed power, then return headset for repair.
	ANR function is not compatible with Aircraft systems.	Contact Telex customer service to determine if there are any known compatibility issues.

7.2 Label Information

The Datamatrix ECC200 holds the following information:

- CTN Number
- Serial Number
- SAP Part Number

7.3 Headband Information

Figure 7.1: Example Headband

1	CTN/Model Number
2	Serial Number (in format YYWW####)

8 Maintenance

8.1 Recommended maintenance schedule

Notice!
Ear cushions, headband pads, and microphone wind screens are considered wear items. For proper headset performance, these items need to be inspected and replaced at regular intervals. See the maintenance schedule below for more information. Headset performance diminishes if items are not replaced when deterioration or damage is apparent.

Tasks	Per Use	Monthly	6 Months
Check boom mic placement	X		
Check ear cup placement	X		
Check headband fit	X		
Clean connectors			X
Clean ear cushions		X	
Clean headband pad		X	
Check connection cable		X	
Inspect & replace windscreen, if necessary			X
Inspect & replace ear cushions, if necessary			X
Inspect & replace headband pad, if necessary			X

8.2 Clean the headset and connectors

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

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

- Clean the **plastic and metal headset parts** with a mild detergent with water and a soft towel or isopropyl alcohol wipes.

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

8.3 Clean the ear cushions and headband pads

Notice!
Do not soak cushions or pads.

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

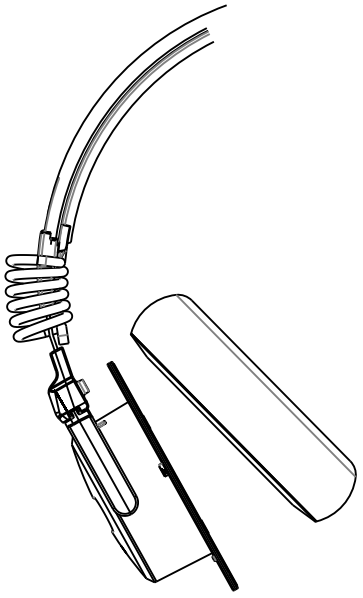
- Gently wipe the **ear cushions** and **headband pad** thoroughly with a soft towel dampened with water or isopropyl alcohol.

8.4 Replace the ear cushions

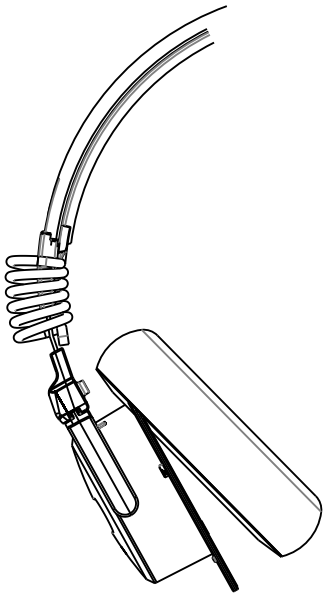
To ensure optimal product performance, it is recommended you replace ear cushions and headband pads periodically (every six months, or sooner if needed).

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

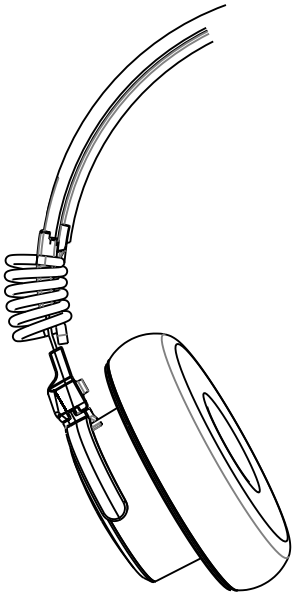
1. Grasp the **edge of the ear cushion** where it folds into the slot on the ear cup.
2. Gently pull the **ear cushion up and away** from the ear cup.
3. Attach the **new cushion** at the top of the ear cup.



4. Work the **cushion** around the ear cup.



5. Secure the **cushion in place** around the bottom of the ear cup.



6. Make sure the **cushion is seated properly** on the ear cup.

8.5 Replace the headband pads

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

1. Grasp the **edge of the headband pad**.
2. Gently pull the **headband pad away from the headband**.

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

1. Align the **headband pad** with the recessed area on the headband.

2. Firmly press the **headband cushion** into place.

8.6 Replace the headband pad holder

The Airman 8+ comes with two headband pads, a small one and a large one.

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

1. Slide the existing **headband pad holder** left or right to remove it from the headband.
2. Align and push the **smaller headband pad holder** onto the headband.

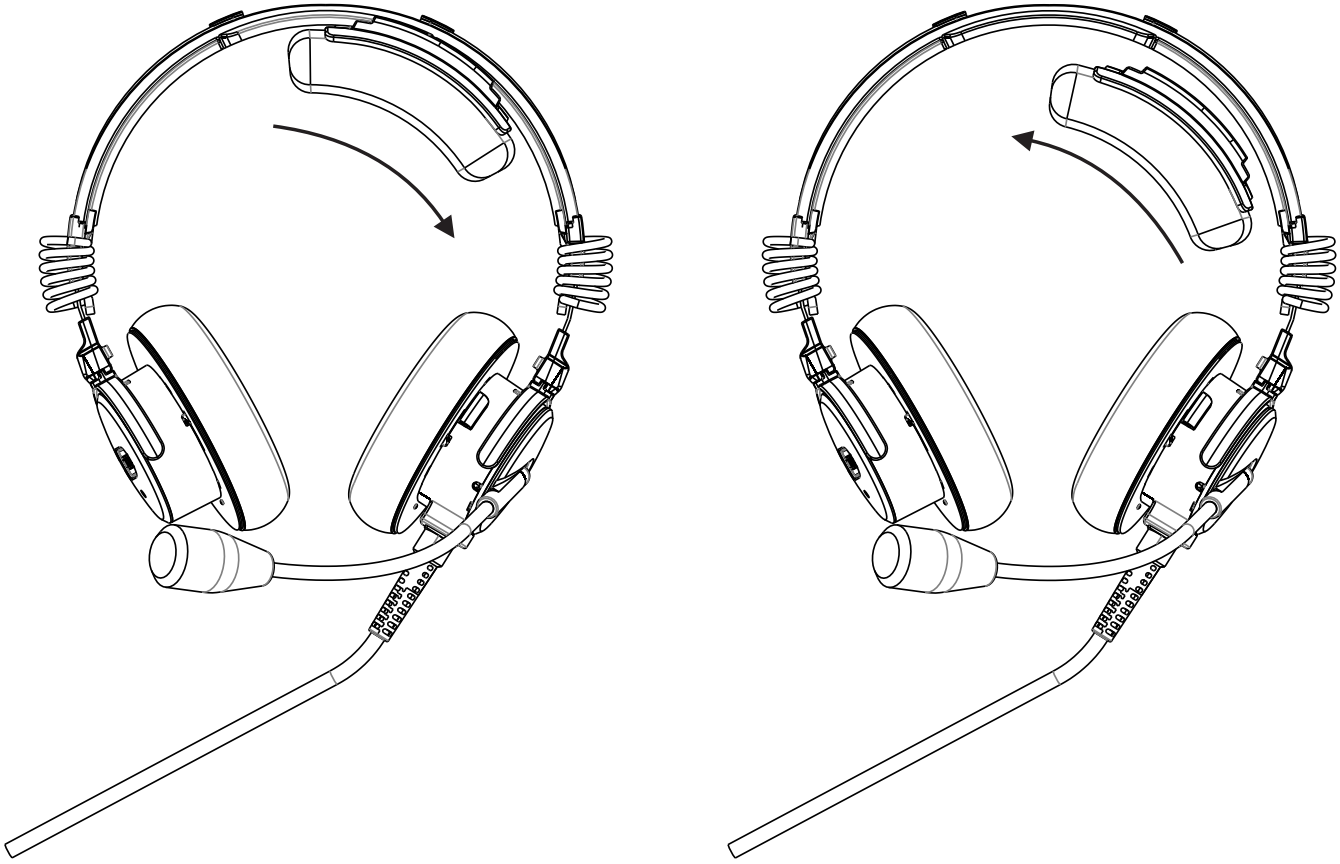


Figure 8.1: Replace the Headband Pad Holder

8.7 Replace the hygienic covers

Notice!
Two hygienic covers are included with the headset. 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. Carefully work the **new cover** (starting at the top of the ear cup) around the ear cup until it is in place.

8.8 Replace the windscreen

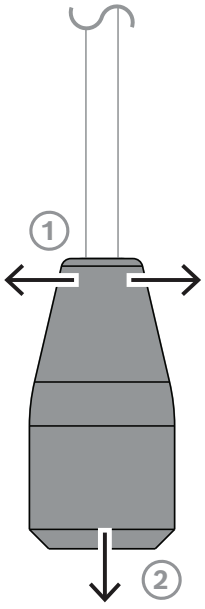
The foam windscreen, once removed from the microphone, can be cleaned using low pressure air to blow contaminates off from the exterior. If low-pressure air does not provide effective results, the windscreen should be replaced.

Notice!
Do not use any liquid on the foam windscreen.

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

Notice!
Do not use excessive force when removing the windscreen.
This may result in damage to the microphone.

1. Take care to **pull the sides of the windscreen away** from the mic pre-filter wings before removing the windscreen to avoid damaging the windscreen or microphone.



2. 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.

8.9 Headset storage

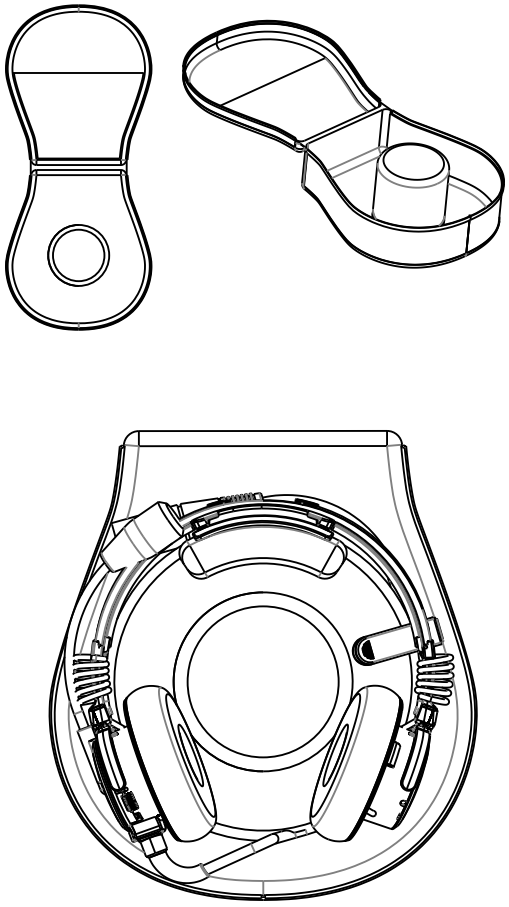
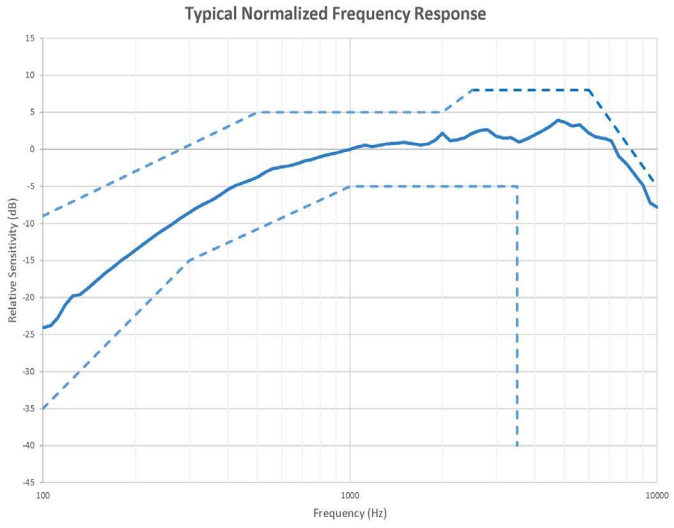


Figure 8.2: Airman 8+ carrying case

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

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

9 Technical data

Headphones	
Type:	
	Dynamic
Impedance:	
	600 Ω ±20% @ 1 kHz
Frequency Response: (Per RTCA DO-214a)	
	< 15 dB max. to min. over the range 315 to 3150 Hz
Sensitivity (Per RTCA DO-214a)	
	92 dB ±5 dBSPL (normal) 98 dB ±5 dBSPL (high)
Microphone and Amplifier	
Element Type:	
	Noise-canceling amplified electret
Frequency Response: (Per RTCA DO-214a)	
	
Sensitivity: (Per RTCA DO-214a)	
	-28 dB ±3 re 1 V/Pa at 1 kHz, 12 V via DO-214a 2.6.2.1
Total Harmonic Distortion (THD)	
	<5% at 114 dBSPL in 350 Hz and 6 kHz; and output shall increases at least 5 dB when inpu7t is increased from 114 to 120 dBSPL at response peak.
Operating Voltage: (Per RTCA DO-214a)	

	8 to 28 VDC at boom microphone (470 Ω TSO load circuit) or at pin 5 of the XLR connector if provided by the aircraft. (AIRMAN8P-0212 requires both power sources)

ANR		
	Power Supply:	
	Receives power from either boom microphone connection (see operating voltage above) or 8-28 VDC supplied on pin 5 of the XLR connector if provided by the aircraft.	
	-0210	Receives power from boom microphone connection. Dual PJ phone plugs (See operating voltage above)
	-0211	Receives power from either the boom microphone connection. 5-pin XLR connector (See operating voltage above)
	-0212	Microphone receives power from boom microphone connection. ANR is powered separately from XLR pin 5 connection.
	-0214	Microphone receives power from boom mic connection. ANR is powered from either the boom microphone connection or XLR pin 5, with isolated ground if pin 5 power is used.
	Attenuation:	
	Provides nominal noise reduction 18 dB or higher between 100 Hz and 400 Hz and 15 dB (minimum) of attenuation between 100 Hz and 300 Hz.	
Connector Type		
	For model AIRMAN8P-0210 Dual Plug Connector	
	Microphone:	PJ-068 or equivalent
	Headphones:	PJ-055 or equivalent
	For model AIRMAN8P-0211, -0212, -0214 XLR Connector	
	Microphone and Headphones:	5-pin Male XLR
Physical		
Weight:		
		Headset weight (with cord)	Headset weight (without cord)
	AIRMAN8P-0210 (Dual plug)	6.77 oz (192 g)	4.4 oz (125 g)
	AIRMAN8P-0211, -0212, -0214 (XLR plug)	6.70 oz (190 g)	4.4 oz (125 g)
Cord Length:		
	6 ft. ±4 in. (1.8 m ±10 cm	

Color:	
	Black and stainless steel
Controls:	
	Active Noise Reduction On/Off Switch
	Volume Normal/High Switch

10 Appendix A - Ordering and Part Number Information

Part Number Information

CTN	Item Type	Description
AIRMAN8P-0210		Double Side ANR Headset, 2PJ, 600 Ohm
AIRMAN8P-0211		Double Side ANR Headset, XLR5, 600 Ohm
AIRMAN8P-0212		Double Side ANR Headset, P5P, XLR5 600 Ohm
AIRMAN8P-0214		Double Side ANR Headset-XLR5, 600 Ohm
AIRMAN8P-0908	Replacement	Headband Pad for Airman 8+
AIRMAN8P-0903	Replacement	Ear Cushion for Airman 8+, 2 pcs
AIRMAN7-0900	Replacement	Windscreen for Airman 7/8/8+, 2pcs
AIRMAN7-0904	Replacement	Clothing Clip for Airman 7/8/8+
AIRMAN8P-0909	Replacement	Carry Case for Airman 8+
AIRMAN8P-0910	Replacement	Hygiene Cover for Airman 8+, 10 pcs

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