



A30 AVIATION HEADSET

Please read and keep all safety, security, and use instructions.

CE Bose Corporation hereby declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and all other applicable EU directive requirements. The complete declaration of conformity can be found at: www.Bose.com/compliance

UKCA This product conforms to all applicable Electromagnetic Compatibility Regulations 2016 and all other applicable UK regulations. The complete declaration of conformity can be found at: www.Bose.com/compliance

Bose Corporation hereby declares that this product is in compliance with the essential requirements per Radio Equipment Regulations 2017 and all other applicable UK regulations. The complete declaration of conformity can be found at: www.Bose.com/compliance

Important Safety Instructions

WARNINGS/CAUTIONS

- Do NOT use the headphones with noise canceling mode at any time the inability to hear surrounding sounds may present a danger to yourself or others, e.g., while riding a bicycle or walking in or near traffic, a construction site or railroad, etc.
- Keep batteries out of reach of children.
- Please dispose of used batteries properly, following any local regulations.
- Danger of explosion if batteries are incorrectly replaced.
- Batteries may cause a fire or chemical burn if mishandled. Do not recharge, disassemble, heat, or incinerate.
- When a replacement is needed, use only AA (LR06) alkaline batteries.

Please read and save this guide

Please read this guide carefully. Save this guide for future reference and make it easily accessible for passengers and third parties who use this headset.

• Switch to an alternate communications method in the event of a headset issue.

In the unlikely event of any headset issue or failure in the passive noise reducing mode, switch to an alternate communications method and use standard cockpit resource management skills to minimize distractions.

• Use the headset at a moderate volume level.

To avoid hearing damage, use the headset at a comfortable, moderate volume level. Limit the headset volume to safe levels that do not interfere with your ability to hear informational sounds and warning alarms, such as stall warnings or gear up, while piloting.

• Turn the headset off if it emits any loud noise.

As with any complex electronic device, it is possible for this headset to fail during operation. Symptoms of failure, which may include loud tones, distortion, feedback squeals and loss of communications signal in the headset, can occur in either the Acoustic Noise Cancelling mode (turned on) or in the passive mode (turned off). If the headset emits any loud noise and the related loss of communications in the Acoustic Noise Cancelling mode, turn off the power switch. The headset will continue to provide communications in the passive noise-reducing mode. If the problem persists, see "Troubleshooting" on page 48.

• Be aware of sound differences while wearing the headset.

With the headset's active and passive noise reduction, typical aircraft sounds (such as engines, propellers, warning alarms, and other sound sources) may not sound familiar. Make sure you can hear and recognize these sounds when using the headset while operating any aircraft.

• Do NOT make phone calls while piloting.

Do not use the headset for telephone calls during flight operations.

- **Make sure your aircraft communications system volume control is easily accessible.**

This control affects the strength of the communications signal coming into the headset. Make sure you can understand critical communications even with Acoustic Noise Cancelling mode turned off. In this case, you may need to turn up the aircraft communications system volume. In passive mode, the volume controls on the control module will automatically be set to maximum volume. For additional volume control, use the intercom or radio volume control. If your headset is aircraft powered, connect the headset to the aircraft power sources only as described in "Technical Information" on page 58.

- **Make sure portable devices do not interfere with the aircraft's navigation and communication systems.**

Reference FAA AC 91.21-1D, or later revision, for installation approval.

It is the pilot's responsibility to ensure that portable devices do not interfere with the aircraft's navigation and communication systems, as well as to determine if the portable device is suitable for use with the headset.

- **Do NOT use this headset with avionics equipment that was manufactured for use with 600Ω headsets only.**

Damage could occur to the equipment. If in doubt, consult the avionics equipment manufacturer.

- **Use only AA alkaline batteries.**

To avoid risk of explosion, replace the batteries only with AA alkaline batteries. Properly dispose of used batteries.

- **Do NOT repair the headset yourself.**

Contact the Bose organization in your country/region for specific care, return and shipping instructions.

Visit: global.Bose.com

- **Do not use the headset with a helmet or as part of a crash protection system.**

The headset is not intended for such use, and has not been certified for crash protection. Dismantling, reassembly or modification of the headset, or any part, for use in a helmet or other crash protection system could result in severe bodily injury and such unauthorized use will void the limited product warranty.

- **Do NOT immerse the headset or any parts in water or any other liquid.**

See "Clean the Headset" on page 44 for cleaning instructions.

- **Keep the earcup free of debris.**

Proper headset operation requires that the headset TriPort and microphone openings located on the outside of each earcup are kept free of debris to ensure clear communications. See "Clean the Headset" on page 44 for cleaning instructions.



Contains small parts which may be a choking hazard. Not suitable for children under age 3.



This product contains magnetic material. Consult your physician on whether this might affect your implantable medical device.

- Do NOT expose this product to dripping or splashing, and do not place objects filled with liquids, such as vases, on or near the product.
- Do NOT make unauthorized alterations to this product.
- Do not expose products containing batteries to excessive heat (e.g. from storage in direct sunlight, fire or the like).
- If the battery leaks, do NOT allow the liquid to come in contact with the skin or eyes. If contact is made, seek medical advice.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Bose Corporation could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with FCC and Industry Canada radiation exposure limits set forth for general population. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC ID: A94429358

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

CAN ICES-3 (B)/NMB-3(B)**For Europe:**

Frequency band of operation 2400 to 2483.5 MHz.

Maximum transmit power is below regulatory limits such that SAR testing is not necessary and exempt per applicable regulations.



This symbol means the product must not be discarded as household waste, and should be delivered to an appropriate collection facility for recycling. Proper disposal and recycling helps protect natural resources, human health and the environment. For more information on disposal and recycling of this product, contact your local municipality, disposal service, or the shop where you bought this product.



Please dispose of used batteries properly, following local regulations. Do not incinerate.



Management Regulation for Low-power Radio-frequency Devices

Article XII

According to "Management Regulation for Low-power Radio-frequency Devices" without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices.

Article XIV

The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications operated in compliance with the Telecommunications Act.

The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

Low-power Radio-frequency Devices Technical Regulations

Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to an approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Management Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

低功率電波輻射性電機管理辦法

第十二條 經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條 低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

China Restriction of Hazardous Substances Table

Names and Contents of Toxic or Hazardous Substances or Elements						
Part Name	Toxic or Hazardous Substances and Elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent (CR(VI))	Polybrominated Biphenyl (PBB)	Polybrominated diphenylether (PBDE)
PCBs	X	0	0	0	0	0
Metal Parts	X	0	0	0	0	0
Plastic Parts	0	0	0	0	0	0
Speakers	X	0	0	0	0	0
Cables	X	0	0	0	0	0
This table is prepared in accordance with the provisions of SJ/T 11364.						
0: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.						
X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.						



Date of Manufacture: The eighth digit in the serial number indicates the year of manufacture; "2" is 2012 or 2022.

China Importer: Bose Electronics (Shanghai) Company Limited, Level 6, Tower D, No. 2337 Gudai Rd. Minhang District, Shanghai 201100

EU Importer: Bose Products B.V., Gorslaan 60, 1441 RG Purmerend, The Netherlands

Taiwan Importer: Bose Taiwan Branch, 9F-A1, No. 10, Section 3, Minsheng East Road, Taipei City 104, Taiwan
Phone Number: +886-2-2514 7676

Mexico Importer: Bose de México, S. de R.L. de C.V., Paseo de las Palmas 405-204, Lomas de Chapultepec, 11000 México, D.F. Phone Number: +5255 (5202) 3545

UK Importer: Bose Limited, Bose House, Quayside Chatham Maritime, Chatham, Kent, ME4 4QZ, United Kingdom

The CMIIT ID is located under the headband cushion.

Please complete and retain for your records

The serial and model numbers are located under the headband cushion.

Serial number: _____

Model number: 429358

Please keep your receipt with your owner's guide. Now is a good time to register your Bose product.
You can easily do this by going to [worldwide.bose.com/ProductRegistration](https://www.worldwide.bose.com/ProductRegistration)

The **Bose Privacy Policy** is available at [worldwide.bose.com/privacypolicy](https://www.worldwide.bose.com/privacypolicy)

The **Bose Terms of Use** are available at <https://www.worldwide.bose.com/termsofuse>

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Enhance your headset experience with the Bose Connect app.

FEATURES

Easily connect to and switch between multiple mobile devices with a single swipe.

Customize your headset experience:

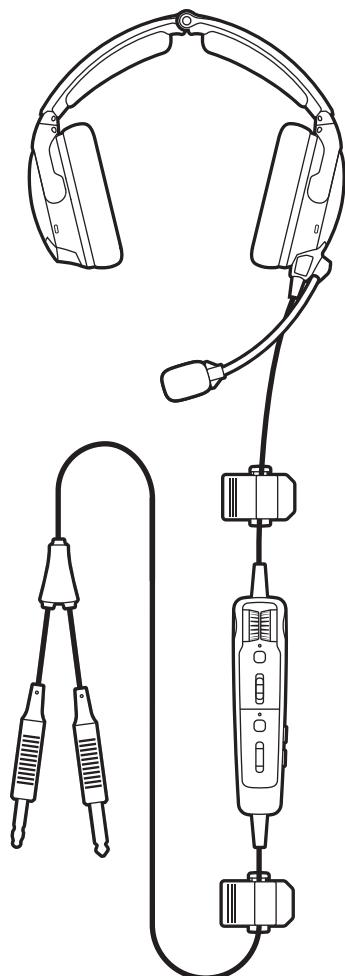
- Name your headset.
- Share audio and music.
- Adjust *Bluetooth* volume.

NOTE: Applies to *Bluetooth* headsets only.

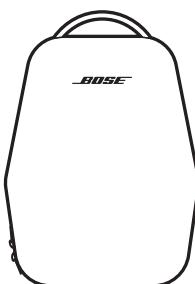
- Find answers to frequently asked questions.



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Bose A30 Aviation Headset



Carry case



3.5mm cable



Cable clips (2)



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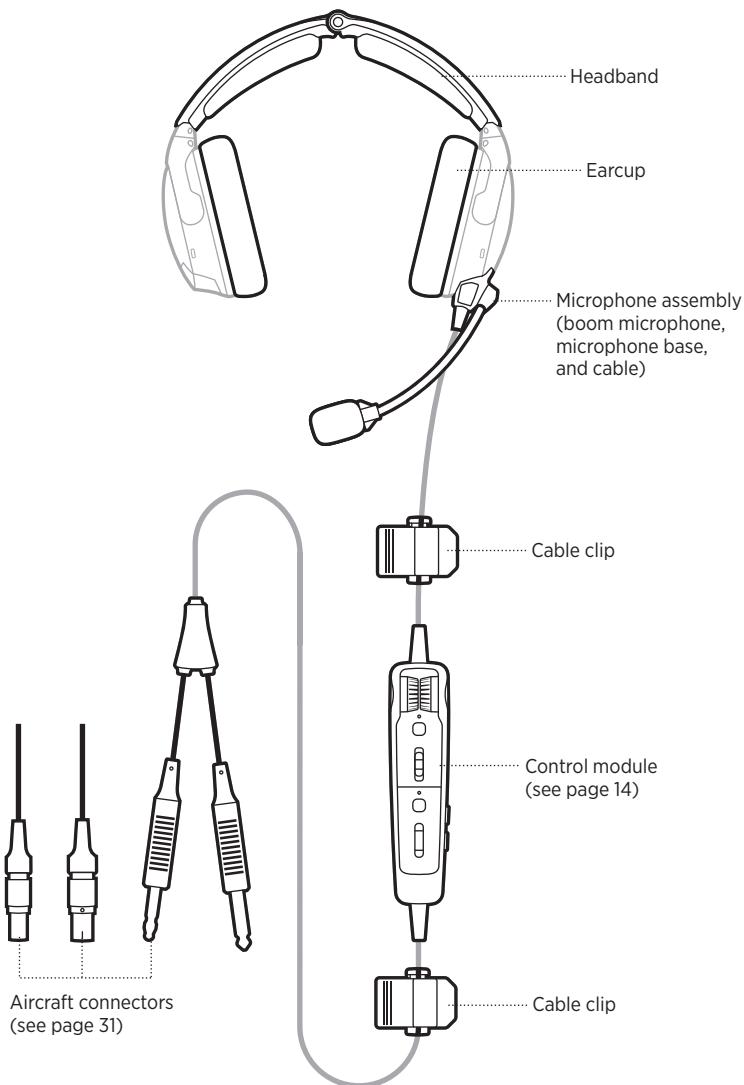
Control module holder

NOTES:

- For control module options, see page 14.
- For aircraft connector types, see page 31.
- If any part of the product is damaged, don't use it. Contact your authorized Bose dealer or Bose customer service.

Visit: worldwide.Bose.com/Support/A30

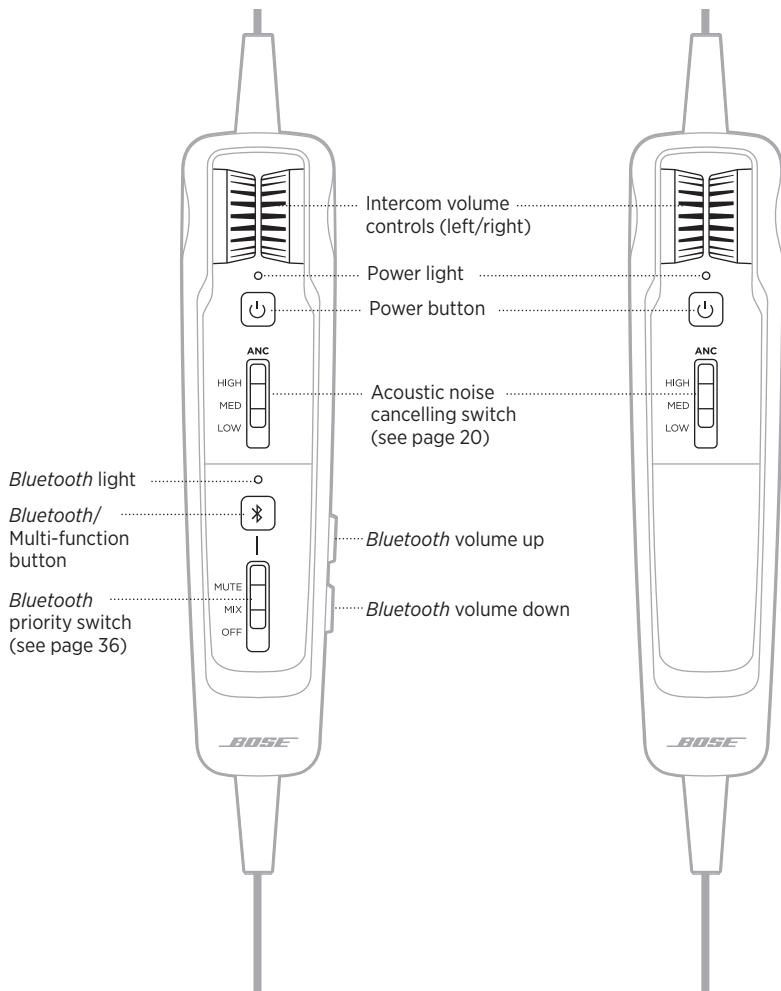
HEADSET COMPONENTS



CONTROL MODULE OPTIONS

Two types of control module are available:

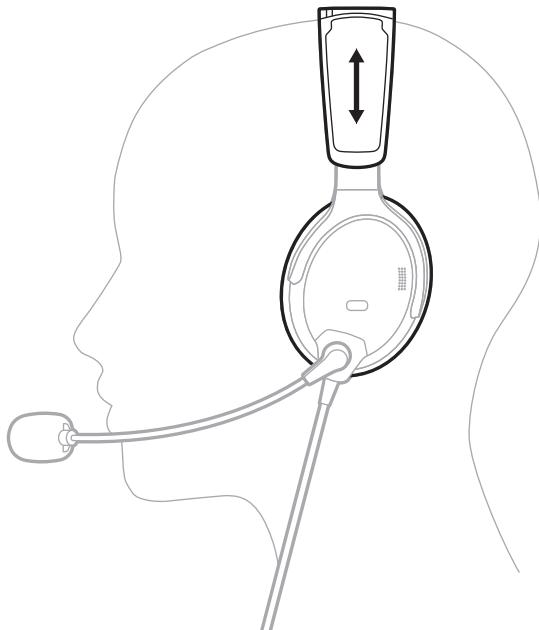
Control module with *Bluetooth* capability Conventional control module



FIT THE HEADBAND

Proper fit is important both for comfort and optimal noise cancellation performance.

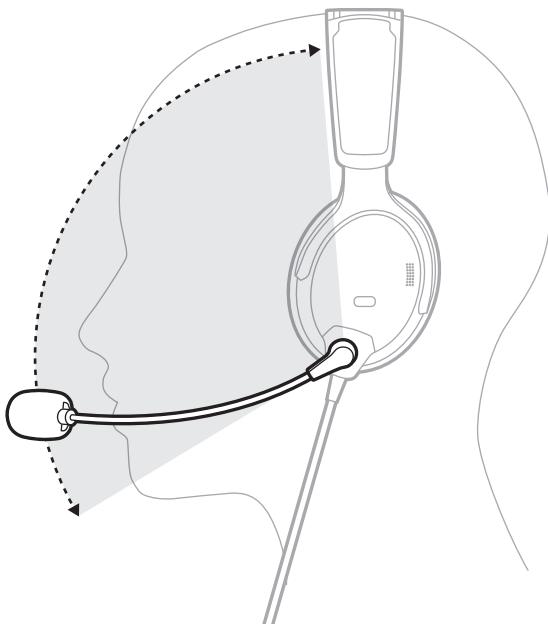
1. Use the left Ⓣ and right Ⓤ icons above the earcups to orient the headset properly.
2. Place the headset on your head.
3. Adjust the headband so it rests gently on top of your head and the ear cushions completely cover your ears.



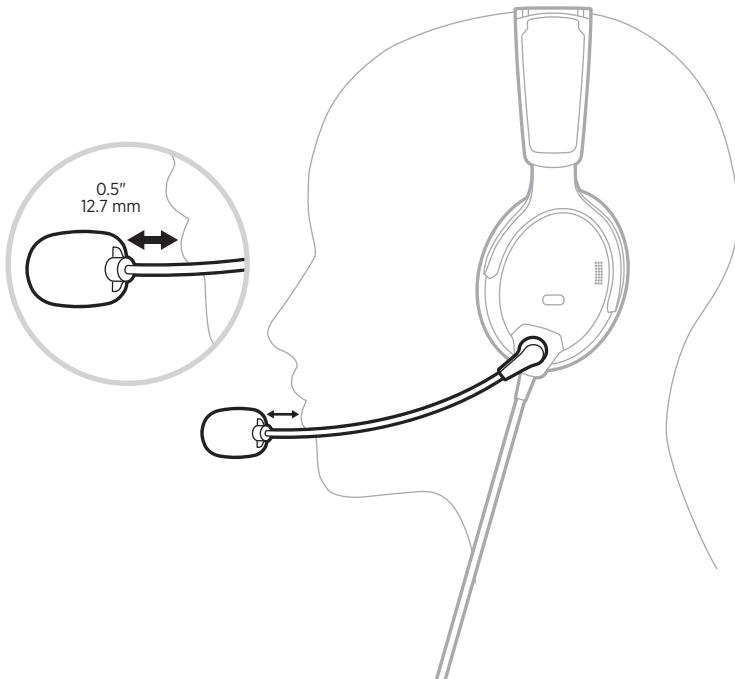
ADJUST THE MICROPHONE

1. Grasp the microphone base and adjust the boom so the microphone is level with your mouth.

CAUTION: Microphone placement is important for clear communication. The microphone boom can rotate 160°. Do NOT force it beyond the intended rotation or damage could occur.



2. Position the microphone so it is 0.5" (12.7 mm) from your lips, and the white surface on the base is facing your mouth.

**NOTES:**

- If necessary, twist the microphone base to rotate the microphone into position.
- The microphone should not be touching your lips.

3. Test the headset before flight.

CONDITIONS RELATED TO FIT

In very loud conditions, such as during takeoff, you may experience a brief reduction in noise cancellation as the headset compensates for a momentary pressure change. If this continues when the sound level returns to normal, see “Acoustic Noise Cancelling” on page 20. If it persists, see “Troubleshooting” on page 48.

A low rumbling sound or frequent, brief losses of noise cancellation may indicate an improper fit or blocked earcup ports. See “Clean the Headset” on page 44” for instructions on removing blockages.

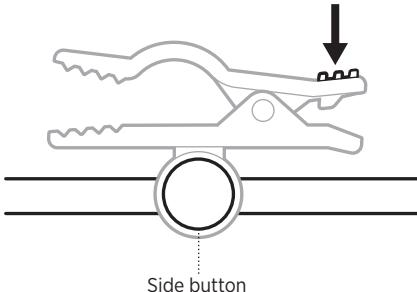
During a long flight, you may feel a slight pressure point, which can be relieved by adjusting the headband position.

SECURE CABLE CLIPS AND CONTROL MODULE HOLDER

The cable clips and control module holder secure the cable and control module to your clothing, a safety harness, sun visor rail, or aircraft headset hook for quick and easy access.

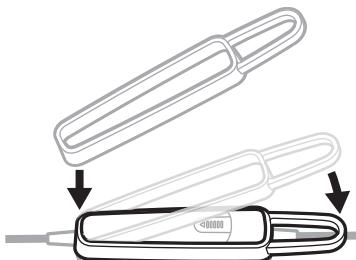
Clothing clip

Squeeze the narrow end of the clip to open. Press the side button to release and reposition the clip along the cable.



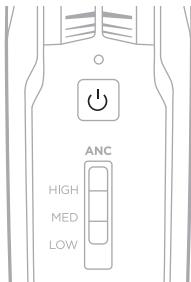
Control module holder

Pull the strap over the control module to secure it in place.



POWER ON

Press the Power button .



The Power light glows amber then blinks according to the power level.
See "Power Light" on page 34.

NOTE: The first time you power on your headset, noise cancellation is fully enabled.
See "Acoustic Noise Cancelling" on page 20.

POWER OFF

Press and hold  for three seconds, then release.

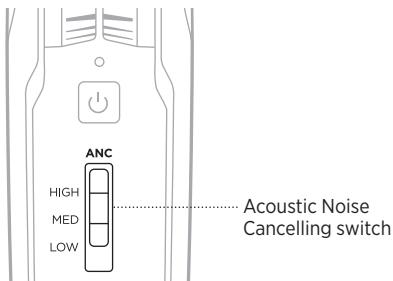
When powered off, the headset provides passive audio communications.

Acoustic Noise Cancelling reduces unwanted noise, providing a clearer, more lifelike audio performance. You can choose your noise cancellation level based on your listening preferences and environment.

NOTE: When you receive a call, the headset remains at the current noise cancellation level.

ACOUSTIC NOISE CANCELLING FUNCTIONS

The Acoustic Noise Cancelling switch is located on the front of the control module.



FUNCTION	POSITION	DESCRIPTION
High		Maximum quiet and noise cancellation across the entire spectrum. Best signal-to-noise ratio for radio and intercom communications in loud aircraft.
Medium		Consistent noise reduction across a wide range of frequencies. Best for clear and comfortable noise cancellation in typical jet aircraft.
Low		Best for improved interpersonal communication outside of the intercom.

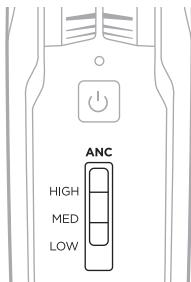
TAP CONTROL FOR TALK-THROUGH COMMUNICATION

When you need to focus on interpersonal communication coming from a specific direction, you can automatically set noise cancelling to Low in one earcup by firmly double-tapping the earcup.

NOTES:

- By default, Tap Control is set to Off.
- Tap Control is available only when the Acoustic Noise Cancelling switch is in the High or Medium position.

1. Make sure the Acoustic Noise Cancelling switch is in the High or Medium position.



2. Set the Tap Control switch to On.
See "Change the Operation Switches" on page 25.



3. Firmly double-tap the outside of the earcup.



Switch earcups

To switch Tap Control to the other earcup, firmly double tap the other earcup.

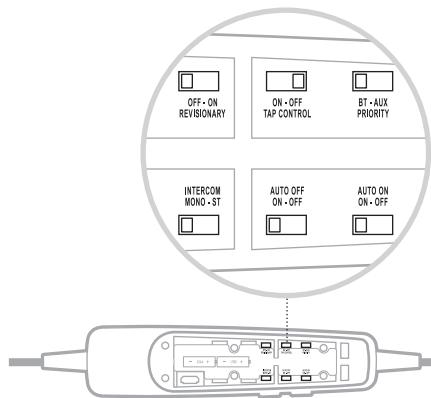
Reset Tap Control

To reset Tap Control and resume noise cancelling in both earcups, double-tap the earcup with Tap Control active, or move the Acoustic Noise Cancelling switch to another position.

OPERATION SWITCH FUNCTIONS

The operation switches are located in the control module battery compartment.

NOTE: Some operation switches are not available on all models.



FUNCTION	POSITION	DEFAULT	DESCRIPTION
Revisionary mode	OFF - ON REVISIONARY		Deactivates all Non-TSO functionality (NTF).
Tap control	Off		See page 21.
Priority	BT - AUX PRIORITY		Establishes priority between two secondary audio sources. Select BT to give the <i>Bluetooth</i> (wireless) connection higher priority. Select AUX to give the wired connection higher priority. See page 36.

FUNCTION	POSITION	DEFAULT	DESCRIPTION
Intercom	INTERCOM MONO - ST 	Mono	<p>Process audio as mono or stereo.</p> <p>Available for configurations that support two-channel or stereo intercom systems only.</p>
Auto off	AUTO OFF ON - OFF 	On	<p>Power off automatically after 3 to 45 minutes of inactivity.</p> <p>NOTES:</p> <ul style="list-style-type: none"> When running on battery power and unplugged from the intercom, the headset powers off unless there is an active mobile device audio present. If you are on a call and unplugged from the intercom, the headset powers off approximately three minutes after the call is ended.
Auto on	AUTO ON ON - OFF 	On	<p>Power on automatically when connected to aircraft power.</p> <p>NOTES:</p> <ul style="list-style-type: none"> Available in Flex power models only (see page 31). <i>Bluetooth</i> headsets return to the previous <i>Bluetooth</i> state when powered on.

CHANGE THE OPERATION SWITCHES

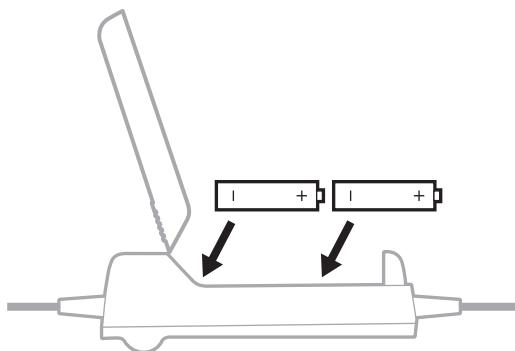
1. Power off the headset. See page 19.
2. On the back of the control module, press down firmly on the finger indent and slide the cover down.

CAUTION: The battery cover is tethered to the control module. Do NOT attempt to detach it.



3. Remove the batteries.
4. Using a pen or a small, flat-tipped screwdriver, gently move the switch(es).

5. Insert the two alkaline AA batteries, observing proper polarity.

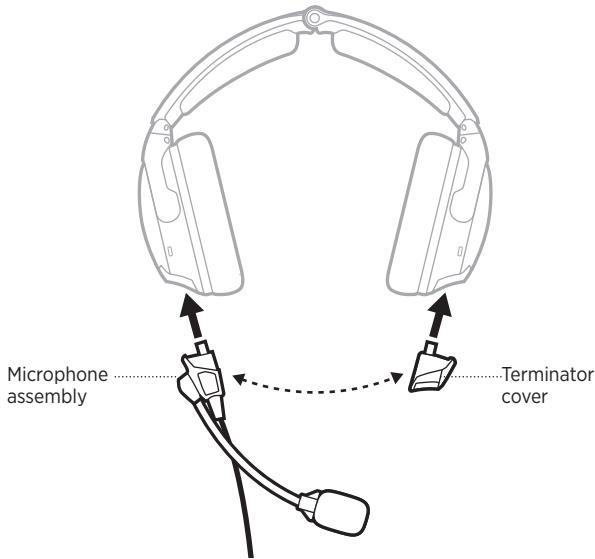


CAUTION: If the batteries don't fit correctly, do NOT force them in. Forcing an improper connection will cause permanent damage to the control module.

6. Close the battery cover, press firmly down on the finger indent, and slide the cover into place.

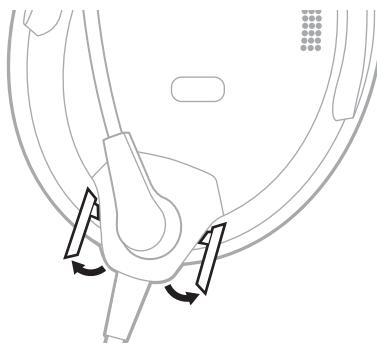


By default, the microphone assembly ships from the factory attached to the left earcup, however, in some configurations it may ship separately. It can be easily moved from one earcup to the other.



MOVE THE MICROPHONE

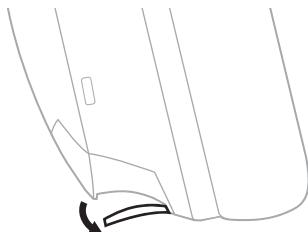
1. Remove the microphone assembly from the left earcup.
 - a. At the base of the microphone assembly, flip up the two latches.



- b. Gently pull the microphone assembly from the connector socket.

2. Remove the terminator cover from the right earcup.

- a. On the terminator cover, flip up the latch.



- b. Gently pull the terminator cover from the socket.

3. Install the terminator cover on the left earcup.

- a. Align the terminator cover with the socket.
 - b. Slide the terminator cover into the socket until secure.
 - c. Flip down the latch.

CAUTION: Do NOT force the terminator cover into the connector socket.

NOTE: If the terminator cover is not securely installed, there will be no audio in the earcup.

1. Install the microphone assembly on the right earcup.
 - a. Align the microphone assembly connector with the socket.
 - b. Slide the connector into the socket until secure.
 - c. At the base of the microphone assembly, flip down the two latches.
2. Test the headset before flight.

REPLACE THE BATTERIES

When the battery light blinks red, the batteries must be replaced.

NOTE: For aircraft-powered headsets, batteries are not required for operation if aircraft power is available. “Aircraft Connectors” on page 31.

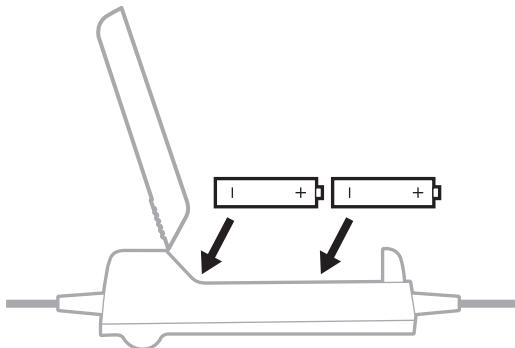
1. Power off the headset. See page 19.
2. On the back of the control module, press down firmly on the finger indent and slide the cover down.

CAUTION: The battery cover is tethered to the control module. Do NOT attempt to detach it.



3. Remove the batteries.

4. Insert two alkaline AA batteries, observing proper polarity.



CAUTION: If the batteries don't fit correctly, do NOT force them in. Forcing an improper connection will cause permanent damage to the control module.

5. Close the battery cover, press firmly down on the finger indent, and slide the cover into place.



NOTE: New alkaline AA batteries supply up to 45 hours of power for the headset. Battery life varies with the ambient noise level of the aircraft, temperature, ear tip condition, *Bluetooth* use, and age of the batteries.

The headset comes with one of several standard aircraft connector options.

POWER TYPE	CONNECTOR OPTIONS
Battery power only.	Dual plug (general aviation) U174
Flex Power: Aircraft power or battery power. No battery needed when connected to aircraft power. NOTE: This version comes with an Auto On function (see page 24).	5-pin XLR 6-pin Lemo NOTES: <ul style="list-style-type: none"> An adapter is available to convert a 6-pin Lemo connector to a Dual plug for additional connection flexibility. Not all aircraft provide power to multi-pin connectors. Check the power status to confirm power is supplied to the headset (see page 34).

NOTE: Contact Bose customer service for more information about these connectors.

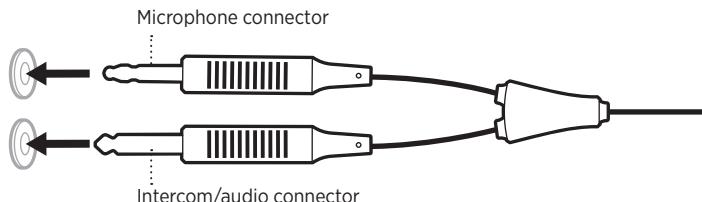
DUAL PLUG AND U174

The battery only powered version of the headset has two general aviation aircraft connectors that insert into specific jacks on the aircraft control panel.

NOTE: The microphone connector is shorter, thinner and has a slightly different shape than the intercom connector

Connect to the aircraft

1. Insert the intercom connector into the audio jack on the aircraft control panel.
2. Insert the microphone connector into the microphone jack on the aircraft control panel.



Disconnect from the aircraft

Gently pull back on each connector to remove the connector from the aircraft control panel.

5-PIN XLR AND 6-PIN LEMO

The 5-pin XLR and 6-pin Lemo aircraft connectors insert into the aircraft control panel and provide the headset with aircraft power and intercom audio.



Connect to the aircraft

1. Align the connector to the connector keyway by matching the narrow bar on the connector to the slot on the connector.
2. Firmly insert the connector into the connector jack on the aircraft control panel.



Disconnect from the aircraft

5-pin XLR

1. Press the button/latch on the aircraft control panel to release the connector, if necessary.
2. Gently pull back to remove the connector from the aircraft control panel.



6-pin Lemo

1. Pull back on the sleeve near the end of the connector.



CAUTION: You must pull back on the sleeve before you pull out the connector. Forcing the connector out will damage the cable and/or the aircraft control panel.

2. Continue gently pulling back to remove the connector from the aircraft control panel.



The *Bluetooth* and Power lights are located on the front of the control module.

BLUETOOTH LIGHT

NOTE: This section applies to *Bluetooth* headsets only.

Shows the connection status of a mobile device.

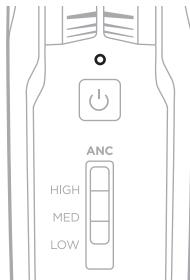


LIGHT ACTIVITY	SYSTEM STATE
Blinking purple (in sync with Power light)	Ready to connect
Blinking blue (alternating with Power light)	Connecting
Blinking blue (in sync with Power light)	Connected

NOTE: To dim the *Bluetooth* and Power lights, double-press .

POWER LIGHT

Shows the power source and level.



POWER SOURCE	LIGHT ACTIVITY	SYSTEM STATE
Aircraft	Slow blinking green	Power On
Battery	Blinking green	Power On—batteries high (8 hours or more)
Battery	Blinking amber	Power On—batteries low (2 to 8 hours remaining)
Battery	Blinking red	Power On—batteries low (2 hours or less remaining) NOTE: In <i>Bluetooth</i> headsets, when the batteries reach this level, the <i>Bluetooth</i> feature is disabled to conserve remaining power. You hear a tone, indicating that your <i>Bluetooth</i> device is disconnecting and the <i>Bluetooth</i> feature is turning off.
Aircraft or battery	None	Power Off or batteries depleted

NOTE: To dim the Power and *Bluetooth* lights, double-press .

New alkaline AA batteries supply up to 45 hours of power for the headset. Battery life varies with the ambient noise level of the aircraft, temperature, ear tip condition, *Bluetooth* use, and age of the batteries.

Bluetooth wireless technology lets you stream audio from mobile devices such as smartphones, tablets, and laptop computers. Before you can stream audio from a device, you must connect the device with your headset.

NOTE: This section applies to *Bluetooth* headsets only.

CONNECT USING THE **BLUETOOTH** MENU ON YOUR MOBILE DEVICE

1. Make sure the *Bluetooth* priority switch is in the Mute or Mix position. See “*Bluetooth* Audio Priority” on page 36.

NOTE: If the *Bluetooth* priority switch is set to Off, *Bluetooth* is disabled.

2. Press and hold the *Bluetooth*/Multi-function button $\mathbb{8}$ for one second.

The *Bluetooth* light blinks purple.

3. On your mobile device, enable the *Bluetooth* feature.

TIP: The *Bluetooth* feature is usually found in the Settings menu.

4. Select the headset from the device list.



Once connected you hear a tone, and the *Bluetooth* light blinks blue.

NOTES:

- After 5 minutes of inactivity, the headset automatically exits pairing mode, and the *Bluetooth* light turns off. To turn the *Bluetooth* feature back on, press $\mathbb{8}$.
- Each time you turn on the *Bluetooth* feature, the headset attempts to reconnect with the two most recently connected *Bluetooth* devices. If the device(s) are turned off or out of range, the headset returns to pairing mode after 5 minutes. See “Reconnect a Mobile Device” on page 38.

CONNECT YOUR MOBILE DEVICE USING THE BOSE CONNECT APP

Download the Bose Connect app, and follow the on-screen connection instructions.



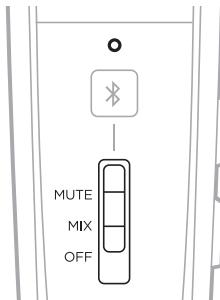
Once connected you hear a tone, and the *Bluetooth* light blinks blue.

BLUETOOTH AUDIO PRIORITY

The aircraft intercom system (ICS) is always the headset's primary audio source. When the headset is plugged in to the aircraft, intercom signals are always heard and cannot be muted by the headset. You can configure how you hear the device audio with the intercom.

NOTE: *Bluetooth* audio will never override the intercom.

The *Bluetooth* priority switch is located on the front of the control module.



FUNCTION	POSITION	DESCRIPTION
Mute		When an intercom signal is detected, <i>Bluetooth</i> audio is temporarily muted until intercom audio ceases.
Mix		When an intercom signal is detected, <i>Bluetooth</i> audio is mixed with intercom audio. You hear a maximum of two audio sources; the intercom plus 1 <i>Bluetooth</i> device.
Off		Only intercom audio is active. <i>Bluetooth</i> functionality is disabled. NOTES: <ul style="list-style-type: none"> All <i>Bluetooth</i> connections are disabled and antennae power is removed. If you switch to OFF while connected to a <i>Bluetooth</i> device, you may need to re-establish your <i>Bluetooth</i> connection the next time you turn on the headset or the next time you move the switch from the OFF position.

NOTES:

- When Mute or Mix are selected, incoming and outgoing phone calls automatically mute all other secondary audio sources.
- During a phone call, the intercom and the phone call are heard as mixed.

DISCONNECT A MOBILE DEVICE

Press and hold the *Bluetooth*/Multi-function button  for five seconds to turn the *Bluetooth* feature off.

Move the *Bluetooth* priority switch to the Off position.

Use the Bose Connect app to disconnect your mobile device.

TIP: You can also use *Bluetooth* settings to disconnect your device. Disabling the *Bluetooth* feature disconnects all other devices.

RECONNECT A MOBILE DEVICE

When powered on, the headset tries to reconnect with the two most recently-connected devices.

NOTE: The devices must be within range (30 ft. or 9 m) and powered on.

RECOVER A LOST CONNECTION

When your connected mobile device moves out of range, the connection is lost. The headset automatically attempts to reconnect. If the headset is unable to reconnect, it returns to pairing mode. After five minutes of inactivity, the *Bluetooth* feature turns off.

1. Move the device back into range.
2. Press the *Bluetooth*/Multi-function button  to reconnect.

You can pair additional devices to your headset. These *Bluetooth* connections are controlled with the *Bluetooth*/Multi-function button \diamond . Before connecting an additional mobile device, make sure this feature is enabled.

TIP: You can also easily manage multiple connected devices using the Bose Connect app.

NOTE: This section applies to *Bluetooth* headsets only.

CONNECT AN ADDITIONAL MOBILE DEVICE

You can store up to eight paired devices in the headset pairing list, and your headset can be actively connected to two devices at a time.

To connect an additional device, use the *Bluetooth* menu on your device or download the Bose Connect app.

NOTES:

- Only one device can be heard at a time.
- *Bluetooth* audio will never override the intercom.

SWITCH BETWEEN CONNECTED DEVICES

1. Pause audio on your first device.
2. Play audio on your second device.

CLEAR THE HEADSET PAIRING LIST

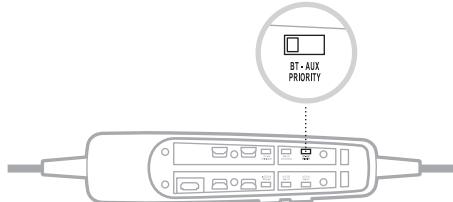
1. Press and hold \diamond and — simultaneously for seven seconds, or until the *Bluetooth* light blinks purple in sync with the Power light.
2. Delete the headset from the *Bluetooth* list on your device.

All devices are cleared, and the headset is ready to connect.
See “*Bluetooth* Connections” on page 35.

SETTING THE PRIORITY (BT-AUX) SWITCH

To assign priority to one of your secondary sources:

1. Locate the Priority (BT-AUX) switch inside the battery compartment.



2. Set the switch to the correct source (BT or AUX).

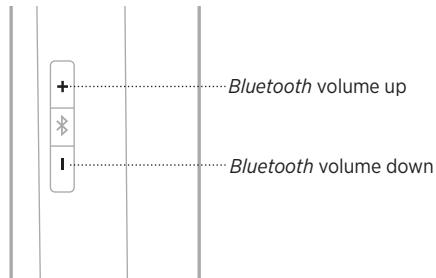
- When the switch is in the BT position, the *Bluetooth* source will override the AUX source if a signal is detected
- When the switch is in the AUX position, the AUX source will override the *Bluetooth* source if a signal is detected

NOTE: Incoming and outgoing phone calls will always override any other secondary source.

NOTE: This section applies to *Bluetooth* headsets only.

BLUETOOTH VOLUME FUNCTIONS

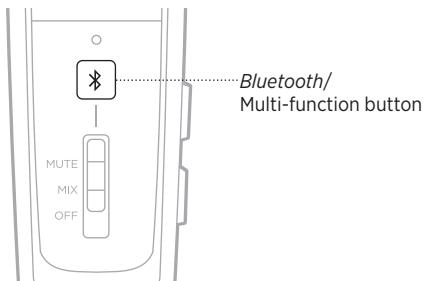
The *Bluetooth* volume controls are located on the side of the control module.



FUNCTION	WHAT TO DO
Bluetooth volume up	Press +.
Bluetooth volume down	Press -.

CALL FUNCTIONS

The *Bluetooth*/Multi-function button \diamond is located on the front of the control module.



FUNCTION	WHAT TO DO
Make a call	Dial from your connected phone. The call automatically transfers to the headset.
Answer a call	Press \diamond . You hear a short beep before you hear the incoming call.

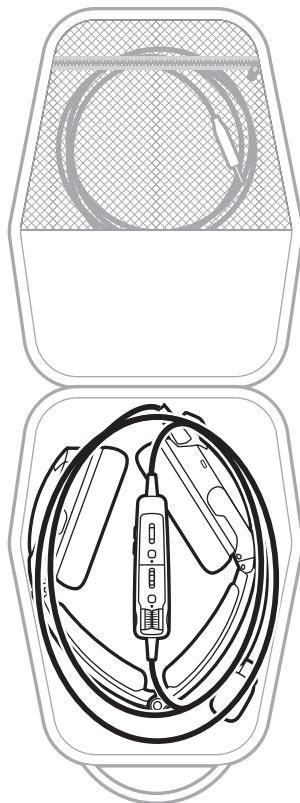
FUNCTION	WHAT TO DO
End a call	Press $\#$. You hear two short beeps indicating the call has ended.
Decline an incoming call	Press and hold $\#$ for one second. You hear two short beeps indicating the call has been declined.
Answer a second incoming call and put the current call on hold	While on a call, press the <i>Bluetooth/Multi-function</i> button $\#$. You hear a short beep before you hear the second call.
Decline a second incoming call and stay on current call	While on a call, press and hold $\#$ for one second. You hear two short beeps indicating the call has been declined.
Switch between two calls	With two active calls, double-press $\#$. You hear a short beep before you hear the incoming call.
Redial the last number	When there are no active or incoming calls, double-press $\#$.
Transfer audio to the mobile device	While on a call, press and hold $\#$ for three to four seconds. The audio is transferred to the mobile phone while the <i>Bluetooth</i> connection remains active.
Activate voice control	When there are no active or incoming calls, press $\#$.
Mute/unmute a call	While on a call, press $+$ and $-$ simultaneously. You hear two short beeps indicating the call has been muted/unmuted.

NOTES:

- If you are on a call and unplugged from the intercom, the headset powers off approximately three minutes after the call is ended.
- To use the headset when unplugged from the intercom (to listen to audio or to make or receive calls), Bose recommends to disable the Auto Off feature for uninterrupted functionality. See “Operation Switches” on page 23.
- Some functions may not be available for some mobile devices. Refer to your device owner’s guide for more information.

STORE THE HEADSET

- Place the headset in the carry case for easy, convenient storage.
- Store the headset in a ventilated area away from direct sunlight.
- Remove the batteries before storing the headset for extended periods.



CLEAN THE HEADSET

Your headset may require periodic cleaning.

COMPONENT	CLEANING PROCEDURE
Headset	<p>Wipe the outside surfaces of the headband, headband cushion, ear cushions, connectors, and plastic parts using a soft, damp cloth (water only) and mild soap.</p> <p>CAUTION: Do NOT immerse the headset in water or any liquid.</p>
Earcup openings	<ul style="list-style-type: none"> Check to ensure that the openings on the outside of each earcup are clean and free of debris before each flight. When wiping down the headset earcups, be sure not to force any dirt or debris into the openings. Carefully use tweezers, if necessary, to remove foreign matter that may be lodged in the openings. <p>CAUTION: Do NOT blow air into or vacuum the openings as this may damage the headset.</p>
Earcup inner screen	<ul style="list-style-type: none"> Do not attempt to remove, replace, repair, or clean the inner screen inside the earcup. If the screen appears to be damaged or worn out, contact Bose. If the inner screen becomes damp from environmental moisture such as light rain, dew, perspiration, or condensation, allow it to air dry only <p>CAUTION: Do NOT use electric heaters, blowers, or hair dryers to dry the inner screen.</p>
Microphone windscreens	<ol style="list-style-type: none"> Gently slide or roll the windscreens off the microphone. Rinse and dry the windscreens. Once the windscreens are completely dry, slide the windscreens back on the microphone. Make sure it fits completely over the microphone.

LIMITED WARRANTY

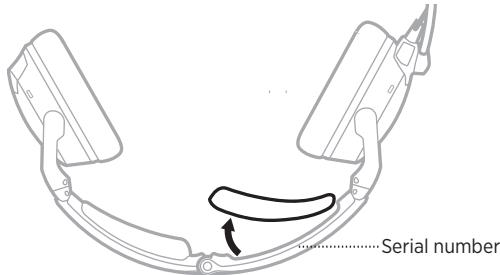
The headset is covered by a limited warranty. Details of the limited warranty are provided on the product registration card that is in the carton. Please refer to the card for instructions on how to register. Failure to do so will not affect your limited warranty rights.

- Contact the Bose organization in your country/region (visit global.Bose.com for Bose contact information in your country/region) for specific return and shipping instructions.
- Label and ship the product, freight prepaid, to the address provided by the Bose organization in your country.

3. Place any necessary return authorization number prominently on the outside of the carton. Cartons not bearing a return authorization number, where required, will be refused.

SERIAL NUMBER LOCATION

The serial number is located under the headband cushion. To view the serial number, gently grab and peel the cushion from away from the headband.



Refer to this serial number when you register your product or contact Bose for technical support.

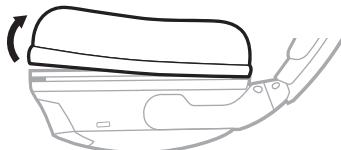
REPLACEMENT PARTS AND ACCESSORIES

Through normal use, parts like windscreens ear cushions may require periodic replacement. Replacement parts and accessories can be ordered through Bose customer service.

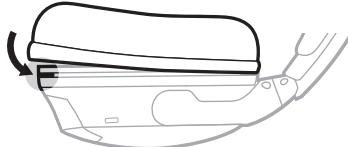
Visit: worldwide.Bose.com/Support/A30

To replace the ear cushions:

1. Grasp the ear cushion skirt where it folds into the slot on the earcup.
2. Gently pull the ear cushion skirt up and away from the earcup.



3. Properly align the replacement ear cushion with the earcup.
4. Tuck an edge of the ear cushion skirt into the slot behind the ear cushion flange. Be careful not to fold the skirt over.
5. Gently stretch the cushion around the earcup, working the skirt into the slot as you go.

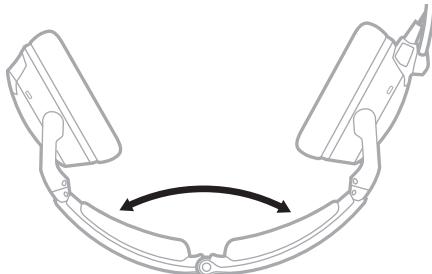


6. Grasp the ear cushion and adjust its position to remove any folds in the skirt and wrinkles in the cushion.

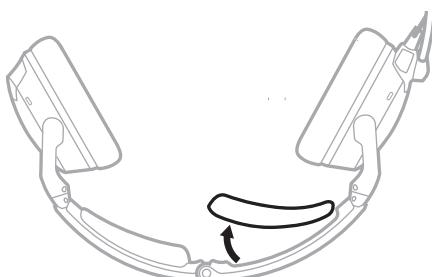
Headband cushion

Replace the cushion once regular care and maintenance fails to restore the cushion to its original size and shape.

1. On a protected surface, turn the headset upside down.



2. Remove the old cushion from the headband.



3. While still holding the headband open, align the center of the new cushion with the center of the headband and press firmly from the center toward the outside.

Microphone windscreen

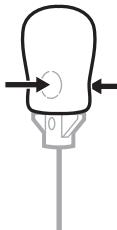
1. Gently grab the microphone base and peel the windscreen away from the microphone.



2. Slide the windscreen off the microphone.
3. Slide the new windscreen on the microphone. Make sure it fits completely over the microphone.



4. Press the sides of the windscreen to secure into place.



Batteries

See “Batteries” on page 29.

Microphone or terminator cover

See “Microphone Placement” on page 27.

TRY THESE FIRST

If you experience problems with your headset, try these solutions first:

- Power on the headset (see page 19).
- Check the state of the status lights (see page 33).
- For *Bluetooth* headsets:
 - Make sure your mobile device supports *Bluetooth* 2.1 and greater.
 - Increase the volume on your *Bluetooth* device (see page 41) and audio or music app.
 - Try connecting another *Bluetooth* device (see page 39) .

OTHER SOLUTIONS

If you could not resolve your issue, see the table below to identify symptoms and solutions to common problems. If you are unable to resolve your issue, contact Bose customer service.

Visit: www.Bose.com/contact

Acoustic Noise Cancelling

PROBLEM	WHAT TO DO
Communication, but no noise cancellation in either ear	<p>If using aircraft power, check the aircraft fuse or circuit breaker.</p> <p>If using battery power, make sure the batteries are fresh and correctly installed. See “Batteries” on page 29.</p> <p>If using aircraft power, make sure the connector is firmly seated in the control panel and the control panel has power. See “Aircraft Connectors” on page 31.</p> <p>Power off, then power on the headset. See “Headset Controls” on page 19.</p> <p>NOTE: Don’t press the Power button  repeatedly.</p>

PROBLEM	WHAT TO DO
No active noise cancellation and no communication	<p>If using battery power, make sure the batteries are fresh and correctly installed. See “Batteries” on page 29.</p> <p>If using aircraft power, make sure the connector is firmly seated in the control panel and the control panel has power. See “Aircraft Connectors” on page 31.</p> <p>Power off, then power on the headset. See “Headset Controls” on page 19.</p> <p>NOTE: Don’t press the Power button  repeatedly.</p> <p>Use the headset in a different seat location.</p> <p>Remove microphone assembly from the headset, and check for damage to the connector or pins. See “Move the Microphone” on page 27.</p>

Intercom communications

PROBLEM	WHAT TO DO
Noise cancellation active, but no incoming audio	<p>Make sure the volume controls are not set too low on the control module or the intercom.</p> <p>Make sure the aircraft connectors are securely inserted into the aircraft control panel. See “Status Lights” on page 33.</p> <p>Use a different seat location in the aircraft.</p>
Low volume of incoming communications	<p>Make sure the volume controls are not set too low on the control module or the intercom.</p> <p>Make sure the Intercom operation switch is correctly set for your intercom system. See “Operation Switches” on page 23.</p> <p>Make sure all headsets sharing the intercom have the Intercom operation switch in the correct position. See “Operation Switches” on page 23.</p> <p>Unplug all other headsets and see if the volume can be adjusted to an acceptable level.</p>
Intermittent communication	<p>Make sure the aircraft connectors are securely inserted into the aircraft control panel. See “Aircraft Connectors” on page 31.</p> <p>Use a different seat location in the aircraft.</p>
Reduced volume in one ear only	<p>Make sure the volume controls are not set too low on the control module or the intercom.</p> <p>Make sure the Intercom operation switch is correctly set for your intercom system. See “Operation Switches” on page 23.</p>

PROBLEM	WHAT TO DO
No stereo separation or communications in one ear only	<p>Make sure the Intercom operation switch is correctly set for your intercom system. See “Operation Switches” on page 23.</p> <p>Make sure the terminator cover is securely installed. See “Move the Microphone” on page 27.</p> <p>Depending on how your audio jacks are wired, there may be only one channel of audio supplied to the headphone jack. If the Intercom (MON-ST) operation switch is set to ST and you only hear communications on one side, set the operation switch to MON to play audio on both sides. 5-pin XLR models are mono audio only.</p>

Audio

PROBLEM	WHAT TO DO
Reduced noise cancellation, intermittent clicking sounds, or communication distortion in a loud environment	<p>Make sure the earcups are clean and free of debris. See “Clean the Headset” on page 44.</p> <p>Remove the microphone, then attach again. See “Move the Microphone” on page 27.</p> <p>If the headset emits any loud noise and related loss of communications while in the Acoustic Noise Cancelling mode, turn the power off. The headset will continue to provide communications in the passive noise reducing mode.</p>
Squealing or whistling sound when the headset powers on	<p>Make sure the headset orientation is correct. Use the Left Ⓣ and Right Ⓤ markings on the headset to orient the headset correctly.</p> <p>Make sure the earcup cushions fully cover your ears. See “Fit the Headband” on page 15.</p> <p>Make sure the earcups are clean and free of debris.</p>
Crackling sound audible with headset turned on in a loud environment, or noise cancelling is intermittent	<p>Make sure the headset orientation is correct. Use the Left Ⓣ and Right Ⓤ markings on the earbuds to orient the headset correctly.</p> <p>Make sure the earcups are clean and free of debris. See “Clean the Headset” on page 44.</p> <p>Remove the microphone, then attach again. See “Move the Microphone” on page 27.</p> <p>If using battery power, check if the battery is low. See “Power Light” on page 34.</p> <p>If using aircraft power, make sure the voltage powering the headset is no less than 10 VDC.</p>

WARNING: If the headset emits any loud noise and related loss of communications while in the Acoustic Noise Cancelling mode, turn the power off. The headset will continue to provide communications in the passive noise reducing mode.

Microphone

PROBLEM	WHAT TO DO
No sound to the microphone	<p>Make sure the white surface on the microphone is facing your mouth. See “Adjust the Microphone” on page 16.</p> <p>Make sure the microphone is fully connected to the headband. See “Microphone Placement” on page 27.</p> <p>Check the Squelch level on the intercom. The Squelch level may need to be adjusted.</p> <p>Try another intercom position in the aircraft.</p> <p>For <i>Bluetooth</i> phone calls, make sure the batteries are fresh and correctly installed. See “Batteries” on page 29.</p> <p>NOTE: For <i>Bluetooth</i> headsets only.</p>

Bluetooth audio source

NOTE: This section applies to *Bluetooth* headsets only.

PROBLEM	WHAT TO DO
No audio from the <i>Bluetooth</i> source to the headset while on a call	<p>Make sure the <i>Bluetooth</i> priority switch is in the Mute or Mix position. See “<i>Bluetooth</i> Audio Priority” on page 36.</p> <p>Turn on and off <i>Bluetooth</i> on the mobile device.</p> <p>Make sure the <i>Bluetooth</i> feature is on, and the <i>Bluetooth</i> light is flashing. See “<i>Bluetooth</i> Light” on page 33.</p> <p>Make sure the headset and device are in range (30 ft. or 9 m).</p> <p>Make sure the mobile device is connected properly and the headset is ready to pair. See “<i>Bluetooth</i> Connections” on page 35.</p> <p>Make sure the <i>Bluetooth</i> volume is not set too low on the control module. See “<i>Bluetooth</i> Volume Functions” on page 41.</p>
Headset does not pair with a device	<p>Turn on and off <i>Bluetooth</i> on the mobile device.</p> <p>Make sure the <i>Bluetooth</i> feature is on, and the <i>Bluetooth</i> light is flashing. See “<i>Bluetooth</i> Light” on page 33.</p> <p>Make sure the <i>Bluetooth</i> priority switch is in the Mute or Mix position. See “<i>Bluetooth</i> Audio Priority” on page 36.</p> <p>Clear the headset pairing list (see page 39) and connect again.</p> <p>Delete the headset from your device’s <i>Bluetooth</i> device list and pair again.</p>
Cannot answer/end a call	<p>Make sure your mobile device is connected to the headset.</p> <p>Turn your device off and on. Connect again.</p>
Headset does not reconnect to a previously connected device	<p>Make sure the headset and device are in range (30 ft or 9 m).</p> <p>Make sure the <i>Bluetooth</i> priority switch is in the Mute or Mix position. See “<i>Bluetooth</i> Audio Priority” on page 36.</p> <p>Make sure the <i>Bluetooth</i> feature is on, and the <i>Bluetooth</i> light is flashing. See “<i>Bluetooth</i> Light” on page 33.</p> <p>On your mobile device, make sure the <i>Bluetooth</i> feature is on.</p> <p>Delete the headset from your device’s <i>Bluetooth</i> device list and pair again.</p>

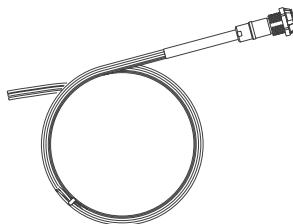
Auto on/off

NOTE: This function is not available for Dual plug connectors.

PROBLEM	WHAT TO DO
Headset does not power on automatically	<p>Make sure the Auto on operation switch is set to ON. See "Operation Switches" on page 23.</p> <p>Check the aircraft specifications to see if the jack is getting power from the aircraft's electrical system.</p>
Headset does not power off automatically	<p>Make sure the Auto off operation switch is set to ON. See "Operation Switches" on page 23.</p> <p>Disconnect the headset from the aircraft. Then power on the headset and wait 15 minutes.</p> <p>It may take up to 9 minutes for the headset to power off when not in use immediately after initial power up. If the headset has not powered off after 15 minutes, contact Bose customer service.</p>

MOUNT THE AIRCRAFT PANEL CONNECTOR

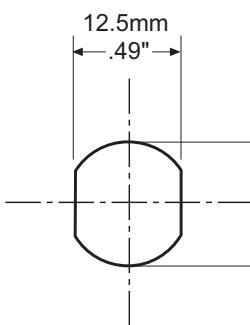
The aircraft panel connector is part of the optional 6-pin wiring harness assembly.



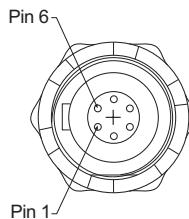
Visit www.Bose.com or global.Bose.com for information or purchase.

WARNING: The aircraft panel connector must be mounted by a technician who is qualified to perform this type of avionics installation for the aircraft you are using.

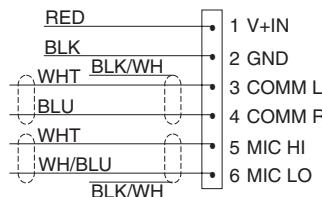
Mount the connector into a cutout, using the diagrams below as a guide.



Receptacle - Pinout (front view)



Aircraft Interface Schematic



Connect the eight wires as follows:

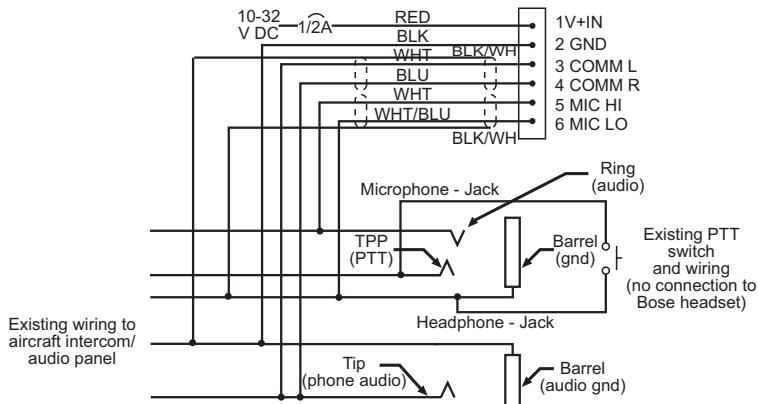
- Two for the microphone
- Two for audio
- One for power
- One for ground
- Two for audio shields

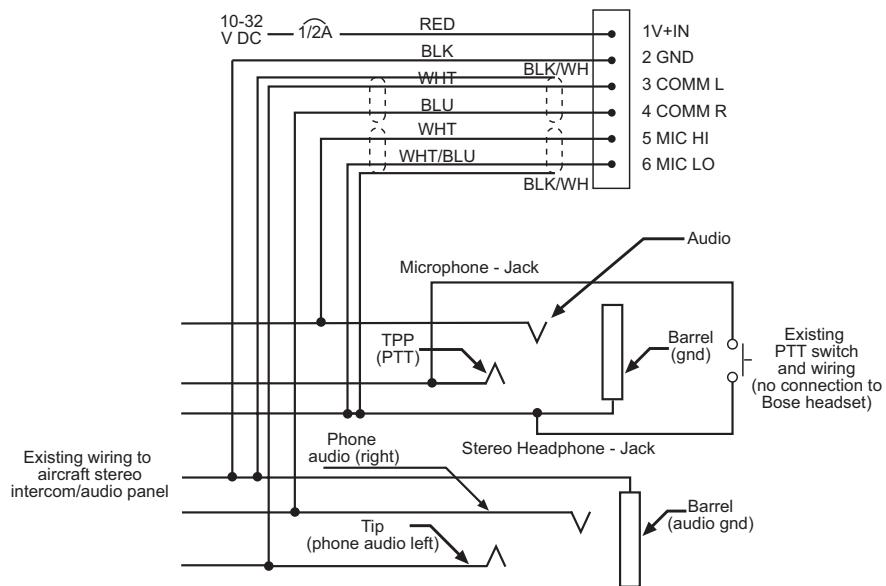
Audio and microphone wires should be connected to the back of the existing microphone and headphone jacks, leaving existing jacks intact for use with conventional headsets. This is usually the fastest installation method.

CAUTION: Do NOT use excessive force or bend the installed connector. This may damage or break internal solder joints.

NOTE: The aircraft panel connector cannot be installed in an audio system using transformer-coupled audio outputs. Contact Bose customer service.

Mono connection diagram



Stereo connection diagram

Details on making the connections

The pinouts for the optional installed connector are detailed in the table below.

PIN NUMBER	COLOR	PURPOSE
1	Red	V+IN: Headset power (10-32 VDC). Use a 1/4 amp fuse or a 1/2 amp circuit breaker.
2	Black	GND: System ground. Connect to the existing audio ground.
3	White	COMM L: Phone communication: Left.
4	Blue	COMM R: Phone communication: Right.
NOTE: For stereo operation, connect the left and right channels to their respective positions. For monaural operation, connect pins 3 and 4 together, and to the tip of the existing phone jack.		
5	White	MIC HI: Microphone/Hi-audio. Connect to the portion of the existing microphone jack that corresponds to the ring position of a headset microphone plug. Don't connect to the tip (PTT) segment.
6	White/Blue	MIC LO: Microphone/Lo-ground. Connect to the portion of the microphone jack that corresponds to the barrel position of a headset microphone plug.
NOTE: If the microphone works on radio transmit but not through the intercom, check pin 6. It may be incorrectly wired to the PTT segment of the microphone jack.		
Comm Shield	Black	Shield from Comm L and Comm R wire pair.
Mic Shield	Black	Shield from Mic Hi and Mic Lo wire pair.
NOTE: The wires connecting pins 3 and 4 and pins 5 and 6 are shielded, twisted pairs with a black wire shield termination exiting each pair. If the existing wiring is not shielded, connect the shields to the existing audio wiring shields, or connect the shield from Comm L and Comm R wire pair to audio ground.		

SPECIFICATION	DESCRIPTION
Headphone sensitivity	92 dB SPL typical, measured at 1 mw, 1 kHz, full volume on a KEMAR ear simulator
Headphone impedance	Mono mode: 160 Ohms ON and OFF Stereo mode: 320 Ohms ON and OFF
Headphone frequency response	15 Hz to 15 kHz
Boom microphone sensitivity	Varies depending on bias and AC radio input impedance. Typical output is 600 mV at 114 dB SPL. To assure proper modulation of the radio, it is recommended that an avionics technician adjusts its input to match the output of the microphone.
Boom microphone bias	Bias required: 8 to 16 VDC through 220 to 2200 Ohms
Maximum ambient noise level	115 dBC SPL for full active noise reduction performance
Battery power source	Two (2) AA alkaline batteries
Battery life	Up to 45 hours in typical commercial jet aircraft noise. Duration varies with battery age, ambient noise levels, temperature, ear tip condition, and use of the <i>Bluetooth</i> feature.
Aircraft power source	Aircraft power voltage range: 10 to 32 VDC
Average power consumption	250mW
Fuse/breaker recommended	1/4 amp, fast-blow fuse (AGC 1/4 amp fuse) or 1/2 amp circuit breaker
Headset weight	12 ounces
Headset size range	Slider not extended: 8.425" (214mm) H x 6.34" (161mm) W x 3.15" (80mm) D Slider extended: 10.2" (259mm) H x 6.6" (168mm) W x 3.15" (80mm) D
Control module dimensions	1.5" (38.1mm) H x 1.5" (38.1mm) W x 4.92" (125mm) D

SPECIFICATION	DESCRIPTION
Temperature and Altitude (Category A)	Operating: 5 to 131°F (-15 to 55°C) Storage: -67 to 158°F (-55 to 70°C) Altitude: 15,000 feet maximum pressure altitude for full cancellation
Bluetooth wireless technology	4.2
Headset cable length	6.56 ft. or 2 m

FAA TECHNICAL STANDARD ORDER

The Bose A30 Aviation Headsets that are approved to TSO and ETSO C139a are appropriately marked. The product interface, cables, and microphones have been designed to function in or withstand exposure to the environmental conditions below.

This article meets the minimum performance and quality control standards required by a technical standard order (TSO). Installation of this article requires separate approval.

CONDITION	CATEGORY
Altitude and temperature	A1
Salt fog	S
AF conducted susceptibility	B
Humidity	B
Magnetic effect	Z
Power input	B
RF Susceptibility	T
Vibration	S, R and U
Voltage spike	A
Shock drop	12 times, 1 m onto concrete (per DO-214a)
Explosive atmosphere	Passed

Environmental categories cited refer to RTCA/DO-160G and RTCA/DO-214a (December 18, 2013).

The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within the TSO standards which include any accepted integrated non-TSO functions. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.

This device complies with FCC and Industry Canada RF radiation exposure limits for general population. It must not be collocated or operating in conjunction with any other antenna or transmitter.



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