A30 AVIATION HEADSET

Please read and keep all safety and use instructions.

For more information about your A30 Aviation Headset, visit: support.Bose.com/A30

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

This product conforms to all applicable EU directive requirements. The complete declaration of conformity can be found at: www.Bose.com/compliance

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

WARNINGS/CAUTIONS

- To reduce the risk of fire or electrical shock, do NOT expose this product to rain, dripping, splashing, or moisture and do not place liquid filled objects such as vases, on or near the product.
- Do NOT make unauthorized alterations to this product.
- The battery provided with this product may present a risk of fire, explosion or chemical burn if mishandled, incorrectly replaced or replaced with an incorrect type.
- 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.
- Do not expose products containing batteries to excessive heat (e.g. from storage in direct sunlight, fire or the like).
- Keep batteries out of reach of children.
- Please dispose of used batteries properly, following any local regulations.
- Batteries may cause a fire or chemical burn if mishandled. Do not recharge, disassemble, heat, or incinerate.

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.

NOTE: Damage could occur to avionics equipment by the use of these headsets if equipment was manufactured for use with 600 Ω headsets only. If in doubt, consult the avionics equipment manufacturer.

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 54.
- **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 "Aircraft Connectors" on page 34.
- **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.
- **Use AA (LR06) batteries, alkaline preferred.**
  Alkaline batteries are recommended for best results. Other battery chemistries may yield different results. Battery life may differ and battery life indication may not be accurate. 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 48 for cleaning instructions.
- **Keep the earcup free of debris.**
  Proper headset operation requires that the headset acoustic 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 48 for cleaning instructions.

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 product or 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 ISED 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.

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.

This device complies with FCC and ISED 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

CAN ICES-3(B)/NMB-3(B)

For Europe:

Frequency band of operation 2400 to 2483.5 MHz.

Maximum transmit power less than 20 dBm EIRP.

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.

廢電池請回收

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

NOM NYCE

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 a 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.

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Names and Contents of Toxic or Hazardous Substances or Elements						
	Toxic or Hazardous Substances and Elements					
Part Name	**Lead (Pb)**	**Mercury (Hg)**	**Cadmium (Cd)**	**Hexavalent (CR(VI))**	**Polybrominated Biphenyl (PBB)**	**Polybrominated diphenylether (PBDE)**
PCBs	X	O	O	O	O	O
Metal Parts	X	O	O	O	O	O
Plastic Parts	O	O	O	O	O	O
Speakers	X	O	O	O	O	O
Cables	X	O	O	O	O	O
This table is prepared in accordance with the provisions of SJ/T 11364. O: 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; "3" is 2013 or 2023.

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

Mexico Importer: Bose de México S. de R.L. de C.V., Avenida Prado Sur #150, Piso 2, Interior 222 y 223, Colonia Lomas de Chapultepec V Sección, Miguel Hidalgo, Ciudad de México, C.P. 11000 Phone Number: +5255 (5202) 3545

Taiwan Importer: Bose Limited Taiwan Branch (H.K.), 9F., No.10, Sec. 3, Minsheng E. Road, Zhongshan Dist. Taipei City 10480, Taiwan Phone Number: +886-2-2514 7676

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

Model: 429358. The CMIIT ID is located on the inside of the battery cover.

Please complete and retain for your records

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

Serial number: _____

Model number: _____

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

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Packages: CMSIS Version 5.6.0 & SDK CMSIS Peripheral Drivers 2.x.x

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Package: Mbed TLS Version 2.26.0

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WHAT'S IN THE BOX

Contents 15
Headset components 16
Control module options 17

IMPORTANCE OF PROPER FIT

Fit the headband 18
Adjust the microphone 19
Conditions related to fit 21
Secure the cable and control module 21
    Cable clips 21
    Control module holder 21

HEADSET CONTROLS

Power on 22
Power off 22

ACOUSTIC NOISE CANCELLING

Acoustic Noise Cancelling (ANC) switch 23
Tap Control for talk-through communication 24
    Switch earcups 25
    Reset Tap Control 25

OPERATION SWITCHES

Operation switch functions 26
Change the operation switches 28

MICROPHONE PLACEMENT

Move the microphone 30

BATTERIES

Replace the batteries 32

AIRCRAFT CONNECTORS

Dual plug (general aviation) 34
- Connect to the aircraft 34
- Disconnect from the aircraft 34

U174, 5-pin XLR, and 6-pin Lemo 35
- Connect to the aircraft 35
- Disconnect from the aircraft (U174 and 5-pin XLR) 35
- Disconnect from the aircraft (6-pin Lemo) 35

STATUS LIGHTS

Power light 36
Bluetooth® light 37
Dim the status lights 37
Turn off the status lights 37

SECONDARY AUDIO SOURCES

AUX connections 38
Bluetooth connections 39
- Connect using the *Bluetooth* menu on your mobile device 39
- Disconnect a mobile device 40
- Reconnect a mobile device 40
- Recover a lost connection 40
- Connect an additional mobile device 40
- Switch between connected devices 41
- Clear the headset pairing list 41

Bluetooth functions 42
- *Bluetooth* volume functions 42
- Call functions 43

SECONDARY AUDIO PRIORITY

Secondary Audio Mode switch 45
PRIORITY operation switch 46
Secondary audio priority chart 46

CARE AND MAINTENANCE

Store the headset 47
Clean the headset 48
Limited warranty 49
Serial number location 49
Replacement parts and accessories 50
- Ear cushions 50
- Headband cushions 52
- Microphone windscreen 53
- Batteries 53
- Microphone or terminator cover 53

TROUBLESHOOTING

Try these solutions first 54
Other solutions 54
- Acoustic Noise Cancelling 54
- Intercom communications 55
- Audio 56
- Microphone 57
- *Bluetooth* audio source 58
- Auto on/off 59
- Reversionary mode 59

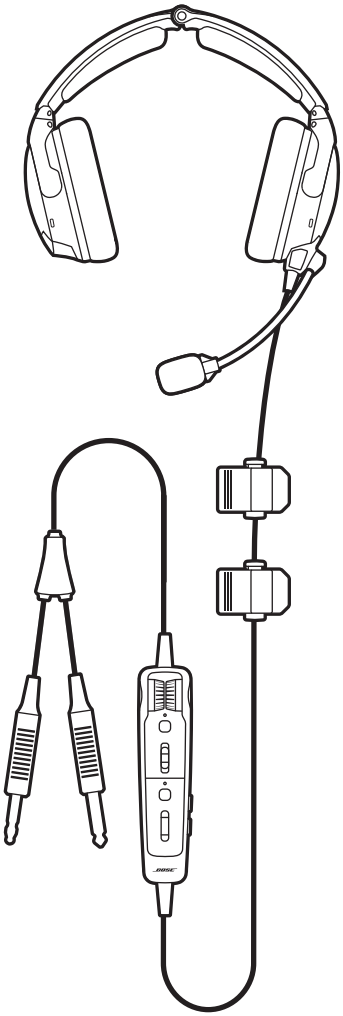
INSTALLATION

Mount the aircraft panel connector 60
Mono connection diagram 61
Stereo connection diagram 62
Details on making the connections 63

TECHNICAL INFORMATION

Headset specifications 64
FAA Technical Standard Order 66

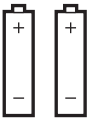
CONTENTS



Bose A30 Aviation Headset

Carry case

3.5 mm AUX audio cable



AA batteries (2)

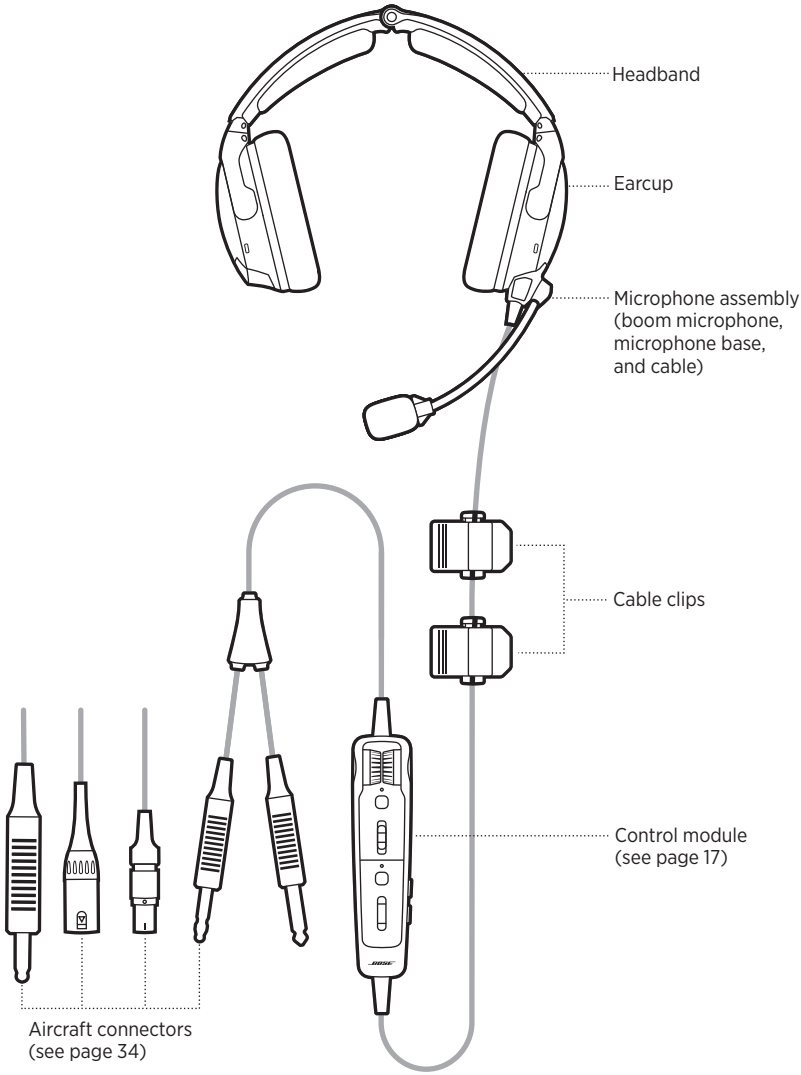
Control module holder

NOTES:

- For control module options, see page 17.
- For aircraft connector types, see page 34.
- If any part of the product is damaged, don't use it. Contact your authorized Bose dealer or Bose customer service.

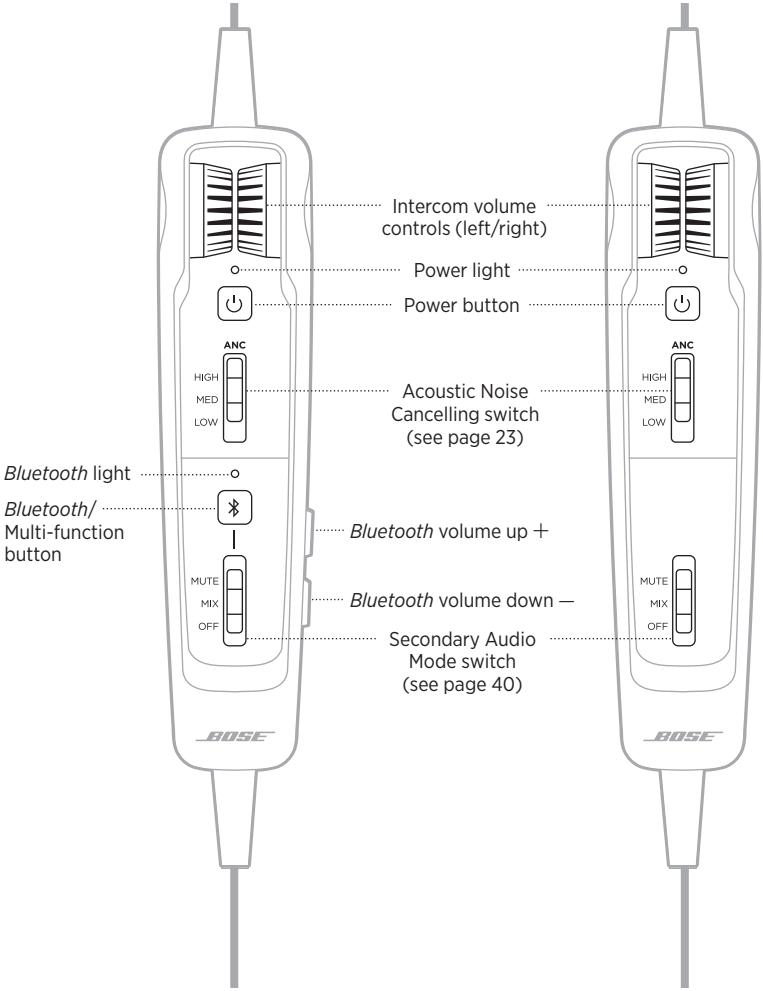
  Visit: support.Bose.com/A30

HEADSET COMPONENTS



CONTROL MODULE OPTIONS

Control module with *Bluetooth* capability | **Conventional control module**

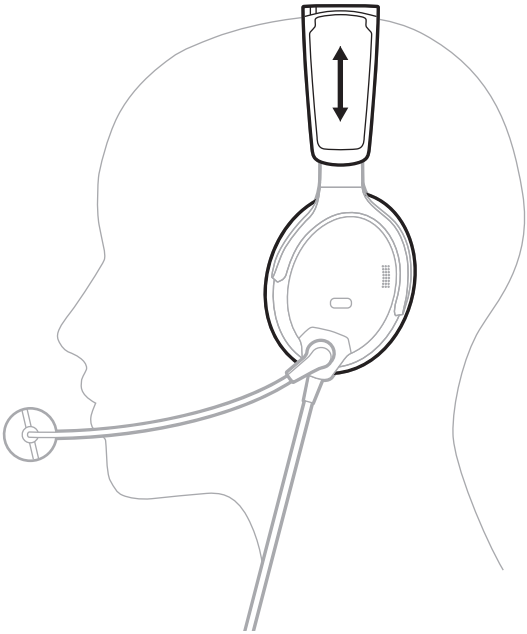


FIT THE HEADBAND

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

1. Locate the left Ⓛ and right Ⓡ icons inside the earcups to orient the headset properly.
2. Place the headset on your head.
3. Adjust the headband so the ear cushions completely cover your ears.

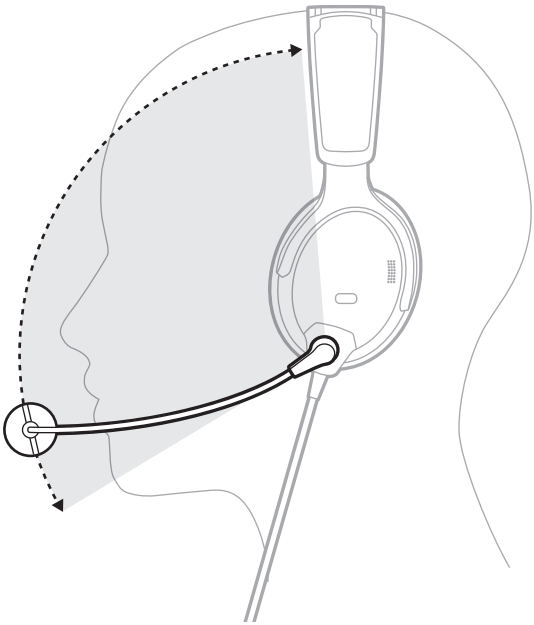
   NOTE: For best performance, make sure the ear cushions fit securely around your ears so they create a seal.



ADJUST THE MICROPHONE

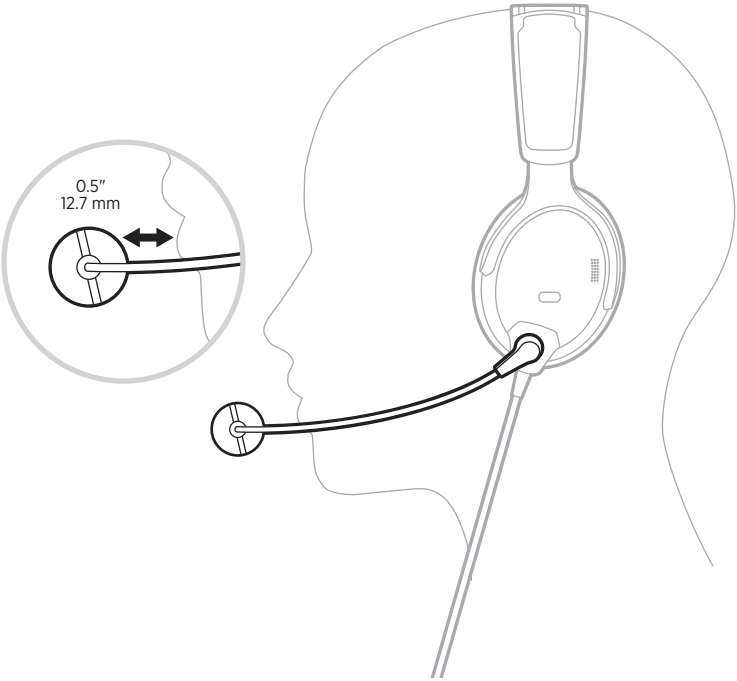
1. Grasp the microphone base and adjust the boom so the microphone is level with your mouth.

   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.



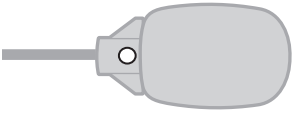
2. Make sure the microphone is 0.5″ (12.7 mm) from your lips.

   NOTE: The microphone should not be touching your lips.



3. Make sure the white dot on the microphone base faces your mouth.

   NOTE: If needed, twist the microphone base.



4. 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 23. If it persists, see “Troubleshooting” on page 54.

A low rumbling sound or frequent, brief losses of noise cancellation may indicate an improper fit or blocked earcup openings. See “Clean the headset” on page 48 for instructions on removing blockages.

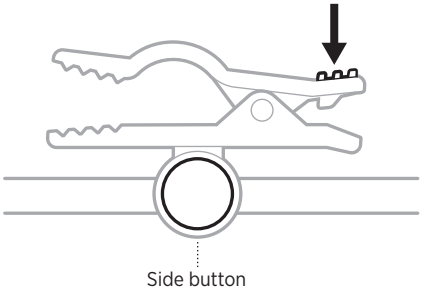
During a long flight, you may feel a slight pressure point, which can be relieved by adjusting the headband position.

SECURE THE CABLE AND CONTROL MODULE

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.

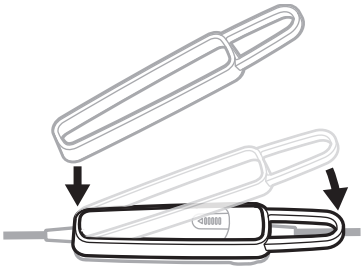
Cable clips

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

Stretch the holder over the back of the control module to secure it in place.



POWER ON

Press the Power button ⏻.

The Power light glows amber then blinks according to the battery level.
See “Power light” on page 36.

NOTE: The first time you power on your headset, noise cancellation is fully enabled.
See “Acoustic Noise Cancelling” on page 23.

POWER OFF

Press and hold ⏻ until the Power light glows amber, then release.

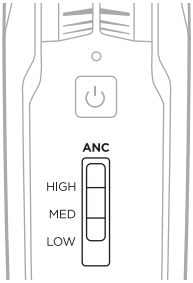
NOTE: When powered off, the headset provides passive audio communications.

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 (ANC) SWITCH

Sets the noise cancellation level.



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

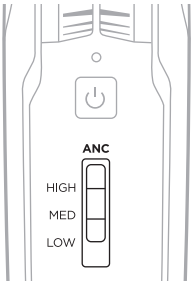
TAP CONTROL FOR TALK-THROUGH COMMUNICATION

When you need to focus on interpersonal communication coming from a specific direction, you can automatically set noise cancellation to LOW in one earcup.

NOTES:

- By default, the TAP CONTROL operation switch is set to OFF.
- Tap Control is available only when the Acoustic Noise Cancelling (ANC) switch is in the HIGH or MED position.
- Tap Control is disabled during extreme levels of ambient noise to ensure proper noise reduction performance and intercom communication quality. However, you can still set the noise cancellation level to LOW in both earcups using the Acoustic Noise Cancelling (ANC) switch (see page 23).

1. Make sure the Acoustic Noise Cancelling (ANC) switch is in the **HIGH** or **MED** position.



2. Inside the control module battery compartment, set the TAP CONTROL switch to **ON**. See “Change the operation switches” on page 28.

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.

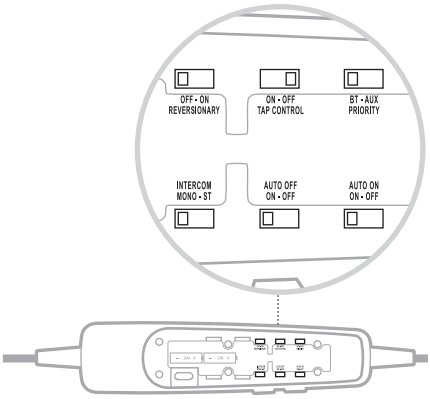
Reset Tap Control

To resume noise cancellation in both earcups, double-tap the earcup where Tap Control is currently active, or move the Acoustic Noise Cancelling (ANC) 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.



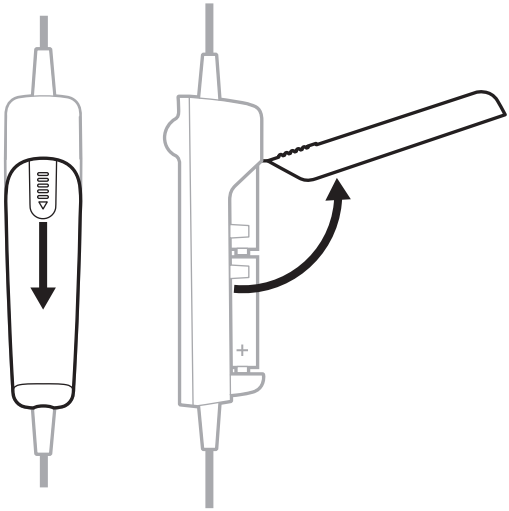
FUNCTION	POSITION	DEFAULT	DESCRIPTION
REVERSIONARY	OFF • ON REVERSIONARY	OFF	Disables all non-critical functions, including *Bluetooth* audio, AUX audio, and Tap Control. Only intercom communications and Acoustic Noise Cancelling are enabled. In case of emergency hardware or software failure, set the switch to **ON**. For more information, see page 59.
TAP CONTROL	ON • OFF TAP CONTROL	OFF	Enables/Disables Tap Control feature (see page 24).
PRIORITY	BT • AUX PRIORITY	BT	Establishes priority between two secondary audio sources connected at the same time. Select **BT** to give the *Bluetooth* (wireless) connection higher priority. Select **AUX** to give the wired connection higher priority. For more information, see page 46.

FUNCTION	POSITION	DEFAULT	DESCRIPTION
INTERCOM	INTERCOM MONO - ST	MONO	Processes intercom audio as mono or stereo. Available for configurations that support two-channel or stereo intercom systems only. **NOTE:** 5-pin XLR and U174 models are mono-only configurations.
AUTO OFF	AUTO OFF ON - OFF	ON	Power off automatically after 3 to 45 minutes of inactivity. **NOTES:** • When running on battery power and unplugged from the intercom, the headset powers off unless there is audio from an active mobile device present. • If you are on a call and unplugged from the intercom, the headset powers off approximately 3 minutes after the call is ended.
AUTO ON	AUTO ON ON - OFF	ON	Power on automatically when connected to aircraft power. **NOTES:** • Available in Flex Power models only (see page 34). • *Bluetooth* models return to the previous *Bluetooth* state when powered on.

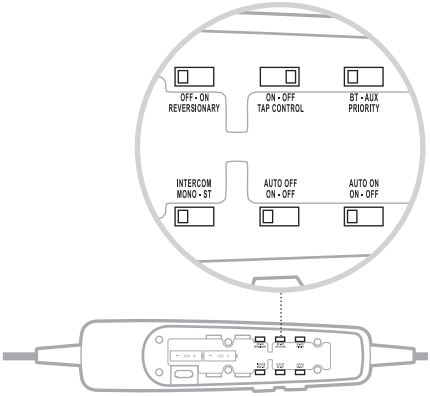
CHANGE THE OPERATION SWITCHES

1. Power off the headset (see page 22).
2. On the back of the control module, press down firmly on the finger indent and slide the cover down.

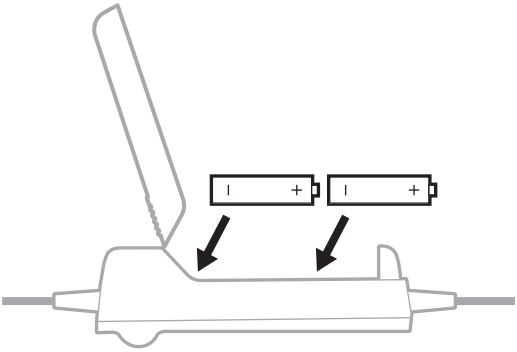
   CAUTION: The battery cover is tethered to the control module. Do NOT attempt to detach it.



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

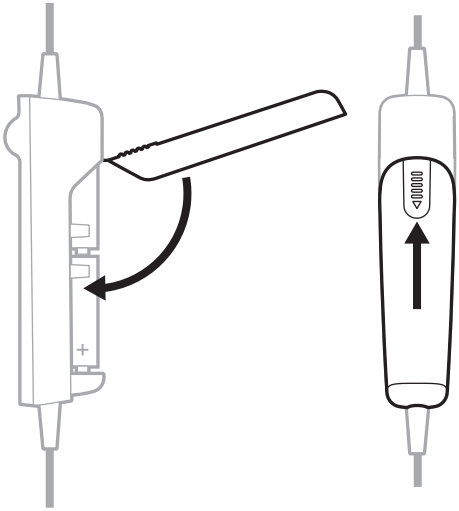


5. Insert two AA batteries (alkaline preferred), observing proper polarity.

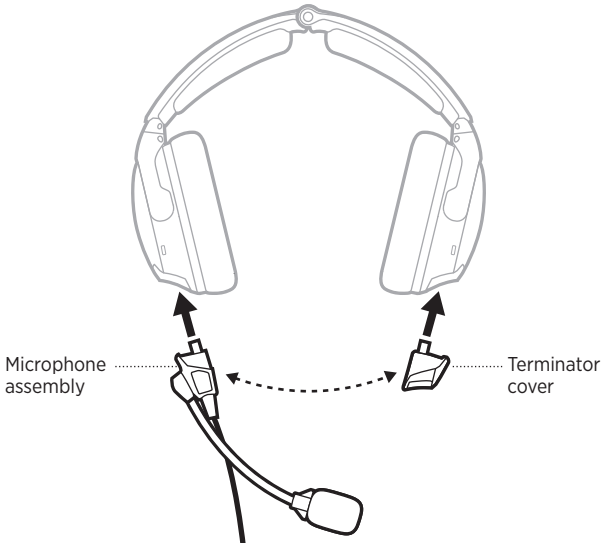


CAUTION: If the batteries don't fit correctly, do NOT force them in. Forcing an improper connection will cause permanent damage to the control module.

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



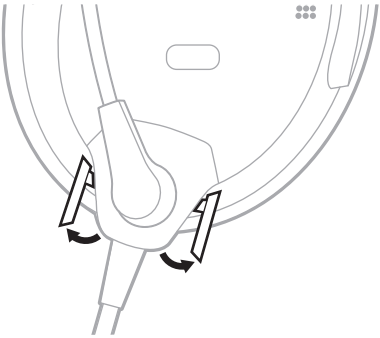
By default, the microphone assembly ships from the factory attached to the left earcup (although in some configurations it may ship unattached). It can be easily moved from one earcup to the other.



MOVE THE MICROPHONE

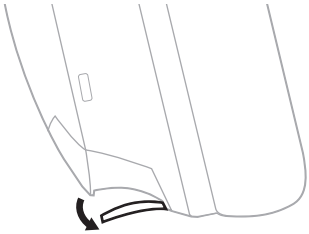
Remove the microphone assembly and terminator cover

1. At the base of the microphone assembly, open the two latches.



2. Gently pull the microphone assembly from the socket.

3. On the terminator cover, open the latch.



4. Gently pull the terminator cover from the socket.

Replace the microphone assembly and terminator cover

1. Align the base of the microphone assembly with the socket on the earcup and slide in until secure.

2. At the base of the microphone assembly, close the two latches.

3. Align the terminator cover with the socket on the other earcup and slide in until secure.

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

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

4. On the terminator cover, close the latch.

5. Test the headset before flight.

REPLACE THE BATTERIES

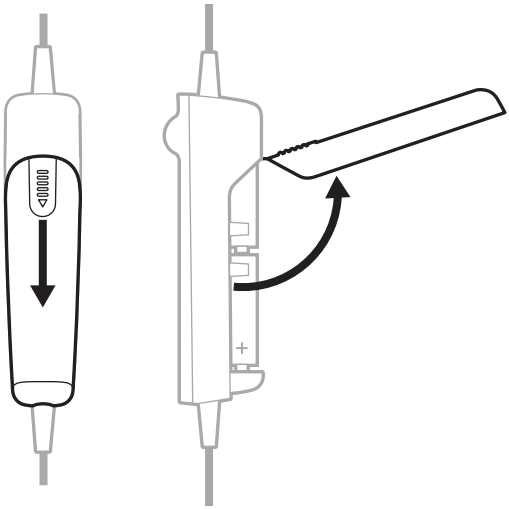
When the battery light blinks red, the batteries must be replaced.

NOTE: For aircraft-powered headsets, batteries are not required for operation if aircraft power is available. However, you can still install batteries when connected to aircraft power as a backup in case of power interruptions or disconnections. See “Aircraft Connectors” on page 34.

1. Power off the headset (see page 22).

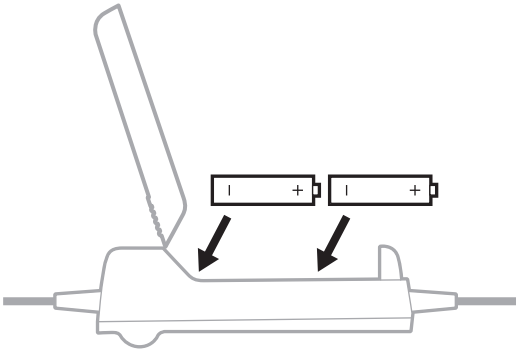
2. On the back of the control module, press down firmly on the finger indent and slide the cover down.

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



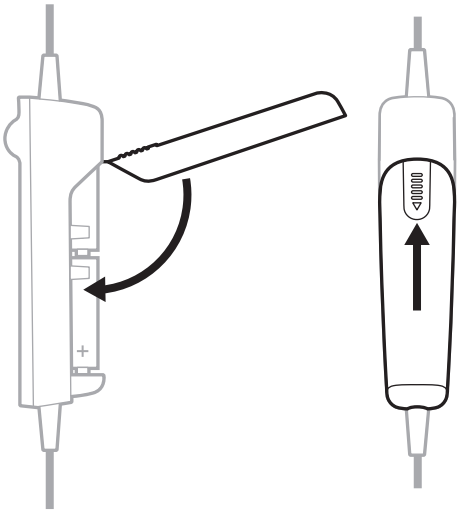
3. Remove the batteries.

4. Insert two AA batteries (alkaline preferred), 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.



NOTES:

- New AA alkaline batteries supply up to 45 hours of power for the headset. Battery life varies with the ambient noise level of the aircraft, temperature, ear cushion condition, *Bluetooth* feature use, and age of the batteries.
- Other battery chemistries may yield different results. Battery life may differ and battery life indication may not be accurate.

Your 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** **NOTES:** • Batteries aren't needed when connected to aircraft power. • This model comes with an Auto On function (see page 27).	5-pin XLR 6-pin Lemo **NOTES:** • Adapters are available to convert a 6-pin Lemo connector to a Dual plug or U174 connector for additional connection flexibility. • Not all aircraft provide power to multi-pin connectors. Check the power status to confirm power is suppled to the headset (see page 37).

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

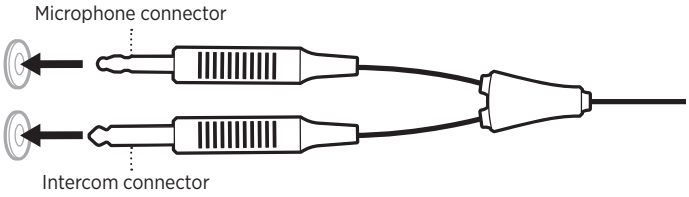
DUAL PLUG (GENERAL AVIATION)

Dual plug models have 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 intercom 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.

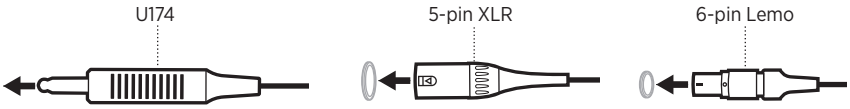
U174, 5-PIN XLR, AND 6-PIN LEMO

5-pin XLR and 6-pin Lemo aircraft connectors provide the headset with both aircraft power and intercom audio. U174 connectors provide the headset with only intercom audio.

Connect to the aircraft

1. Align the connector with the socket on the aircraft control panel, matching the narrow bar on the connector with the slot in the socket.

2. Firmly insert the connector into the aircraft control panel.



Disconnect from the aircraft (U174 and 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.

Disconnect from the aircraft (6-pin Lemo)

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

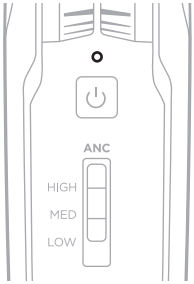
CAUTION: You must pull back on the sleeve before you pull out the connector. Forcing the connector out will damage the cable and/or the aircraft control panel.

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

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

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 (about 8 hours or more remaining)
Battery	Blinking amber	Power On—batteries low (about 2 to 8 hours remaining)
Battery	Blinking red	Power On—batteries low (about 2 hours or less remaining) **NOTE:** In *Bluetooth* models, when the batteries reach this level, the *Bluetooth* feature is disabled to conserve remaining power. You hear a tone, indicating that your *Bluetooth* device is disconnecting and the *Bluetooth* feature is turning off.
Aircraft or battery	None	Power Off or batteries depleted

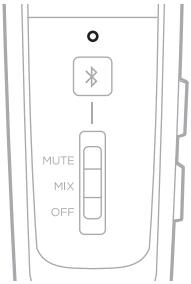
NOTES:

- New AA alkaline batteries supply up to 45 hours of power for the headset. Battery life varies with the ambient noise level of the aircraft, temperature, ear cushion condition, *Bluetooth* feature use, and age of the batteries.
- Other battery chemistries may yield different results. Battery life may differ and battery life indication may not be accurate.

BLUETOOTH LIGHT

NOTE: This section applies to *Bluetooth* models 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 (in sync with Power light)	Connecting/Connected

DIM THE STATUS LIGHTS

To dim the *Bluetooth* and Power lights, double-press the Power button ⏻.

To restore brightness, press ⏻ again, or turn the headset off and then on.

TURN OFF THE STATUS LIGHTS

To turn off the *Bluetooth* and Power lights, triple-press ⏻.

To turn the lights back on, press ⏻ again, or turn the headset off and then on.

NOTE: The status lights will return to default brightness each time the headset is powered on.

You can connect your headset to a secondary audio source in two ways:

- AUX (wired) connection
- *Bluetooth* (wireless) connection (applies to *Bluetooth* models only)

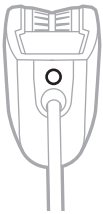
AUX CONNECTIONS

Use the 3.5 mm AUX audio cable to connect a non-wireless device.

1. Make sure the Secondary Audio Mode switch is in the **MUTE** or **MIX** position (see page 45) and the REVERSIONARY operation switch is set to **OFF** (see page 28).

   NOTE: If the Secondary Audio Mode switch is set to OFF or the REVERSIONARY operation switch is set to ON, AUX audio functionality is disabled.

2. Connect the cable to the 3.5 mm AUX port on the back of the control module.



3. Connect the other end of the cable to the 3.5 mm port on your audio source.

NOTE: The functions of a connected AUX audio source are not controlled by the control module.

BLUETOOTH CONNECTIONS

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

Connect using the *Bluetooth* menu on your mobile device

1. Make sure the Secondary Audio Mode switch is in the **MUTE** or **MIX** position (see page 45) and the REVERSIONARY operation switch is set to **OFF** (see page 28).

   NOTE: If the Secondary Audio Mode switch is set to OFF or the REVERSIONARY operation switch is set to ON, *Bluetooth* functionality is disabled.

2. Press and hold the *Bluetooth*/Multi-function button ⚹ for 1 second.

   The *Bluetooth* light blinks purple.

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

   NOTE: 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 ⚹.
- 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 attempts to reconnect to any other devices in the pairing list, then returns to pairing mode. See “Reconnect a mobile device” on page 40.

Disconnect a mobile device

1. Press and hold the *Bluetooth*/Multi-function button ⚹ for 5 seconds to turn the *Bluetooth* feature off.

2. Move the Secondary Audio Mode switch to the **OFF** position (see page 45).

NOTE: 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 for 5 minutes. If the headset is unable to reconnect, it returns to pairing mode. After 5 minutes of inactivity, the *Bluetooth* feature turns off.

1. Move the device back into range.

2. Press ⚹ to reconnect.

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 (see page 39).

NOTES:

- Only one secondary audio source can be heard at a time.
- Secondary 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 the *Bluetooth*/Multi-function button ⯐ and — (the *Bluetooth* volume down button, located on the side of the control module) simultaneously for 7 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.

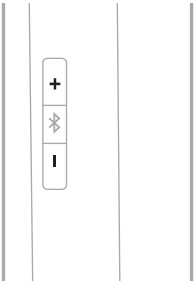
   All devices are cleared, and the headset is ready to connect.
   See "*Bluetooth* connections" on page 39.

BLUETOOTH FUNCTIONS

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

Bluetooth volume functions

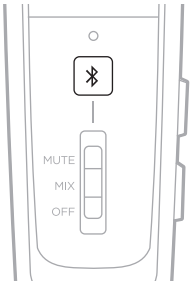
The *Bluetooth* volume controls are located on the side of the control module.



FUNCTION	WHAT TO DO
***Bluetooth* volume up**	Press +.
***Bluetooth* volume down**	Press —.

Call functions

The *Bluetooth*/Multi-function button ⁑ 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 ⁑. You hear a short beep before you hear the incoming call.
End a call	Press ⁑. You hear two short beeps indicating the call has ended.
Decline an incoming call	Press and hold ⁑ for 1 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 ⁑. 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 1 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 ⁑.

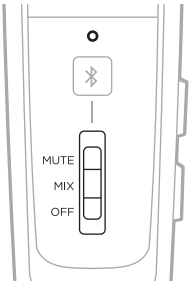
FUNCTION	WHAT TO DO
Transfer audio to the mobile device	While on a call, press and hold the *Bluetooth*/Multi-function button ⁑ for 3 to 4 seconds. The audio is transfered to the mobile phone while the *Bluetooth* connection remains active.
Activate voice control	When there are no active or incoming 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 3 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 26.
- Some functions may not be available for some mobile devices. Refer to your device owner’s guide for more information.

SECONDARY AUDIO MODE SWITCH

Controls how secondary audio sources are heard in relation to the intercom.



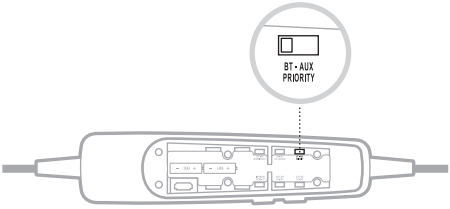
FUNCTION	POSITION	DESCRIPTION
MUTE	MUTE MIX OFF	When an intercom signal is detected, secondary audio is temporarily muted until intercom audio ceases.
MIX	MUTE MIX OFF	When an intercom signal is detected, secondary audio is mixed with intercom audio. You hear a maximum of two audio sources: the intercom plus one secondary device.
OFF	MUTE MIX OFF	Only intercom audio is active. All secondary audio sources, (AUX and *Bluetooth*) are muted. **NOTES:** • All *Bluetooth* connections are disabled and antennae power is removed. • If you switch to OFF while connected to a *Bluetooth* device, you may need to re-establish your *Bluetooth* connection the next time you turn on the headset or the next time you move the switch from the OFF position.

NOTES:

- Only one secondary audio source can be heard at a time.
- Audio from a secondary source will never override intercom communications.
- When MUTE or MIX are selected, incoming and outgoing phone calls automatically mute all other secondary audio sources.
- During a phone call, intercom and phone call audio are mixed.

PRIORITY OPERATION SWITCH

Establishes priority between two secondary audio sources connected at the same time.

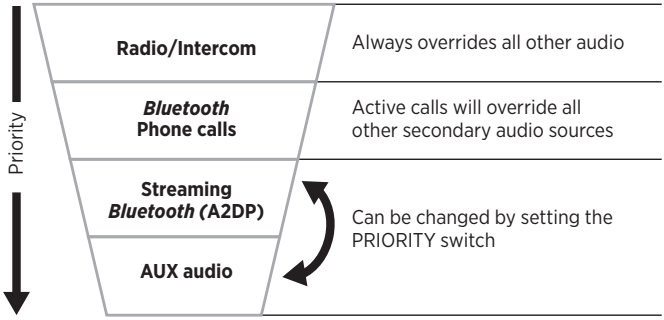


1. Locate the PRIORITY operation switch inside the battery compartment.
2. Set the switch to the correct source (**BT** or **AUX**). See “Change the operation switches” on page 28.
   - When the switch is in the BT position, the *Bluetooth* source will override the AUX source if a signal is detected.
   - 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.

SECONDARY AUDIO PRIORITY CHART

Audio sources are heard according to priority:

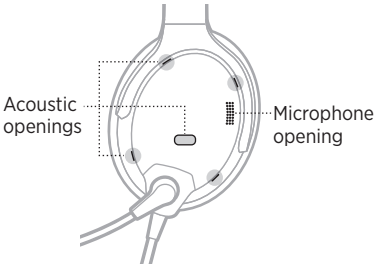


STORE THE HEADSET

- 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	Wipe the outside surfaces of the headband, headband cushion, earcup cushions, connectors, and plastic parts using a soft, damp cloth (water only) and mild soap. **CAUTION:** Do NOT immerse the headset in water or any liquid.
Earcup openings	Check to make sure that the openings on the outside of each earcup are clean and free of debris before each flight. When wiping down the 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.  **CAUTION:** Do NOT blow air into or vacuum the openings, as this may damage the headset.
Earcup inner screen	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 customer service. If the inner screen becomes damp from environmental moisture such as light rain, dew, perspiration, or condensation, allow it to air dry only. **CAUTION:** Do NOT use electric heaters, blowers, or hair dryers to dry the inner screen.
Microphone windscreen	1. Gently slide or roll the windscreen off the microphone. 2. Rinse and dry the windscreen. 3. Once the windscreen is completely dry, slide the windscreen 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.

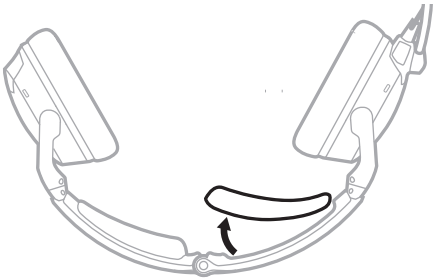
1. Contact the Bose organization in your country/region (visit wordwide.Bose.com for Bose contact information in your country/region) for specific return and shipping instructions.

2. 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 and ear cushions may require periodic replacement. Replacement parts and accessories can be ordered through Bose customer service.

Visit: support.Bose.com/A30

Available accessories

- Ear cushions (pair)
- Headband cushions (pair)
- Electret microphone windscreen
- Dynamic microphone windscreen
- Service kit (ear cushions, electret microphone windscreen, headband cushions)
- Carry case
- Terminator cover
- Control module with cable and microphone assembly
- 6-pin to Dual plug cable adapter
- 6-pin to U174 cable adapter
- 3.5 mm AUX audio cable
- Installation kit
- Cable clip

Ear cushions

Ear cushions should be replaced every six months or every 350 hours of use. You may need to replace them more often if you:

- Have a full beard or heavy whiskers.
- Subject the headset to severe temperature extremes such as parking your airplane outside in severe cold or heat.
- Put excess strain on the cushions because of improper storage.

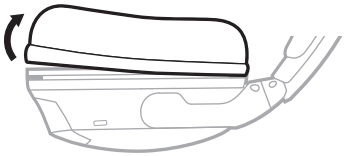
Indications that the ear cushions need replacing include:

- Flaking of the outer covering
- Cuts or tears
- Flattening of the cushion, reducing the effectiveness of the seal

NOTE: To extend the life of the ear cushions, perform regular cleaning (see page 48).

Remove the old ear cushion

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.



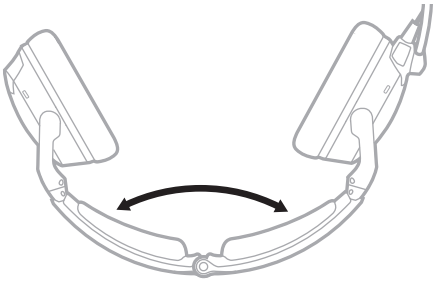
Install the new ear cushion

1. Properly align the new ear cushion with the earcup.
2. Tuck an edge of the ear cushion skirt into the slot behind the ear cushion flange. Be careful not to fold the skirt over.
3. Gently stretch the cushion around the earcup, working the skirt into the slot as you go.
4. Grasp the ear cushion and adjust its position to remove any folds in the skirt and wrinkles in the cushion.

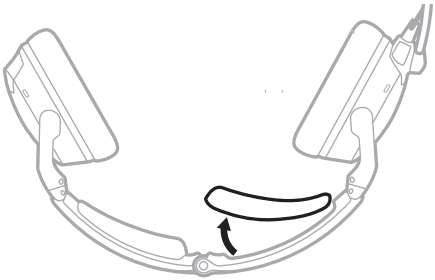
Headband cushions

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.



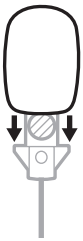
3. While still holding the headband open, align the center of the new cushion with the center of the headband and press firmly from the center toward the outside.

Microphone windscreen

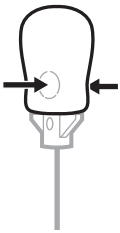
You can remove the windscreen to wash it or to replace it as needed.

1. Gently grasp 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 32.

Microphone or terminator cover

See “Microphone Placement” on page 30.

TRY THESE SOLUTIONS FIRST

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

- Power on the headset (see page 22).
- Check the state of the status lights (see page 36).
- Make sure the REVERSIONARY operation switch is set to **OFF** (see “Change the operation switches” on page 28).
- For *Bluetooth* models:
  - Make sure your mobile device supports *Bluetooth* 4.2 and greater.
  - Increase the volume on your *Bluetooth* device or music app.
  - Try connecting another *Bluetooth* device (see page 40).

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: worldwide.Bose.com/Contact

Acoustic Noise Cancelling

PROBLEM	WHAT TO DO
Communication, but no noise cancellation in either ear	If using battery power, make sure the batteries are fresh and correctly installed (see page 32). If using aircraft power, check the aircraft fuse or circuit breaker. If using aircraft power, make sure the connector is firmly seated in the control panel and the control panel has power (see page 34). Power off, then power on the headset (see page 22). **NOTE:** Don’t press the Power button ⏻ repeatedly.
No active noise cancellation and no communication	If using battery power, make sure the batteries are fresh and correctly installed (see page 32). If using aircraft power, make sure the connector is firmly seated in the control panel and the control panel has power (see page 34). Power off, then power on the headset (see page 22). **NOTE:** Don’t press the Power button ⏻ repeatedly. Use the headset in a different seat location. Remove microphone assembly from the headset, and check for damage to the connector or pins (see page 30).

PROBLEM	WHAT TO DO
Tap Control doesn't function during extreme ambient noise conditions	Tap Control is disabled during extreme levels of ambient noise to ensure proper noise reduction performance and intercom communication quality. However, you can still set the noise cancellation level to LOW in both earcups using the Acoustic Noise Cancelling (ANC) switch (see page 23).

Intercom communications

PROBLEM	WHAT TO DO
Noise cancellation active, but no incoming audio	Make sure the volume controls are not set too low on the control module or the intercom. Make sure the aircraft connectors are securely inserted into the aircraft control panel (see page 34). Use a different seat location in the aircraft.
Low volume of incoming communications	Make sure the volume controls are not set too low on the control module or the intercom. Make sure the INTERCOM operation switch is correctly set for your intercom system (see page 26). Make sure all headsets sharing the intercom have the INTERCOM operation switch in the correct position (see page 26). Unplug all other headsets and see if the volume can be adjusted to an acceptable level.
Intermittent communication	Make sure the aircraft connectors are securely inserted into the aircraft control panel (see page 34). Use a different seat location in the aircraft.
Reduced volume in one ear only	Make sure the volume controls are not set too low on the control module or the intercom. Make sure the INTERCOM operation switch is correctly set for your intercom system (see page 26).
No stereo separation or communications in one ear only	Make sure the INTERCOM operation switch is correctly set for your intercom system (see page 26). Make sure the terminator cover is securely installed (see page 30). Depending on how your audio jacks are wired, there may be only one channel of audio supplied to the headphone jack. If the INTERCOM 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.

Audio

PROBLEM	WHAT TO DO
Reduced noise cancellation, intermittent clicking sounds, or communication distortion in a loud environment	Make sure the earcups are clean and free of debris (see page 48). Remove the microphone, then attach again (see page 30). If the headset emits any loud noise and related loss of communications while in Acoustic Noise Cancelling mode, turn the power off. The headset will continue to provide communications in the passive noise reducing mode.
Squealing or whistling sound when the headset powers on	Make sure the headset orientation is correct. Use the Left Ⓛ and Right Ⓡ markings on the headset to orient the headset correctly. Make sure the ear cushions fully cover your ears (see page 18). Make sure the earcups are clean and free of debris (see page 48).
Crackling sound audible with headset turned on in a loud environment, or noise cancelling is intermittent	Make sure the headset orientation is correct. Use the Left Ⓛ and Right Ⓡ markings on the earcups to orient the headset correctly. Make sure the earcups are clean and free of debris (see page 48). Remove the microphone, then attach again (see page 30). If using battery power, check if the battery is low (see page 36). If using aircraft power, make sure the voltage powering the headset is no less than 10 VDC.

WARNING: If the headset emits any loud noise and related loss of communications while in 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
Microphone doesn't pick up sound	Make sure the white dot on the microphone is facing your mouth (see page 19). Make sure the microphone is fully connected to the headband (see page 30). Check the Squelch level on the intercom and adjust if needed. Try another intercom position in the aircraft. For *Bluetooth* phone calls, make sure the batteries are fresh and correctly installed (see page 32). **NOTE:** For *Bluetooth* models only.

Bluetooth audio source

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

PROBLEM	WHAT TO DO
No audio from the *Bluetooth* source to the headset while on a call	Make sure the Secondary Audio Mode switch is in the **MUTE** or **MIX** position (see page 45). Turn on and off *Bluetooth* on the mobile device. Make sure the *Bluetooth* feature is on, and the *Bluetooth* light is flashing (see page 37). Make sure the headset and device are in range (30 ft or 9 m). Make sure the mobile device is connected properly and the headset is ready to pair (see page 39). Make sure the *Bluetooth* volume is not set too low on the control module (see page 42).
Headset does not pair with a device	Turn on and off *Bluetooth* on the mobile device. Make sure the *Bluetooth* feature is on, and the *Bluetooth* light is flashing (see page 37). If operating on battery power, check the Power light (see page 36). If it's flashing red, the *Bluetooth* feature is disabled to conserve power. Replace the batteries. Make sure the Secondary Audio Mode switch is in the **MUTE** or **MIX** position (see page 45). Clear the headset pairing list (see page 41) and connect again. Delete the headset from your device's *Bluetooth* device list and pair again.
Cannot answer/end a call	Make sure your mobile device is connected to the headset. Turn your device off and on. Connect again.
Headset does not reconnect to a previously connected device	Make sure the headset and device are in range (30 ft or 9 m). Make sure the Secondary Audio Mode switch is in the **MUTE** or **MIX** position (see page 45). Make sure the *Bluetooth* feature is on, and the *Bluetooth* light is flashing (see page 37). If operating on battery power, check the Power light (see page 36). If it's flashing red, the *Bluetooth* feature is disabled to conserve power. Replace the batteries. On your mobile device, make sure the *Bluetooth* feature is on. Delete the headset from your device's *Bluetooth* device list and pair again.

Auto on/off

NOTE: This function is not available for Dual plug and U174 models.

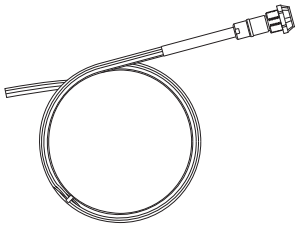
PROBLEM	WHAT TO DO
Headset does not power on automatically	Make sure the AUTO ON operation switch is set to **ON** (see page 26). Check the aircraft specifications to see if the jack is getting at least 10V of DC power from the aircraft's electrical system.
Headset does not power off automatically	Make sure the AUTO OFF operation switch is set to **ON** (see page 26). Disconnect the headset from the aircraft. Then power on the headset and wait 15 minutes. 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.

Reversionary mode

PROBLEM	WHAT TO DO
Headset is in an unresponsive or unusable state	Set the REVERSIONARY operation switch to **ON** (see page 28). This disables all non-critical functions, including *Bluetooth* audio, AUX audio, and Tap Control. Only intercom communications and Acoustic Noise Cancelling are enabled.

MOUNT THE AIRCRAFT PANEL CONNECTOR

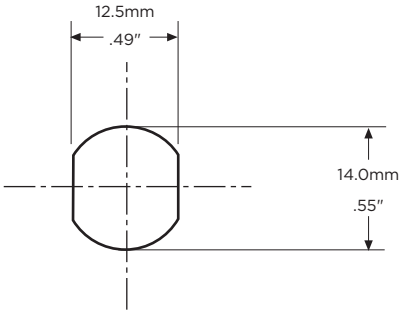
The aircraft panel connector is part of the optional 6-pin wiring harness assembly.



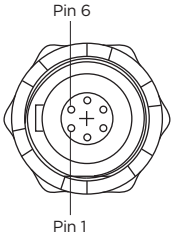
Visit www.Bose.com or global.Bose.com for information or to purchase.

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.

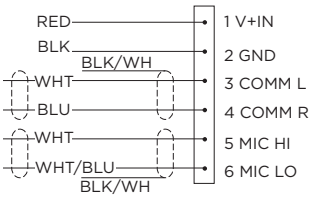
Mount the connector into a cutout, using the diagrams below as a guide.



Receptacle - Pinout (front view)



Aircraft Interface Schematic



Connect the eight wires as follows:

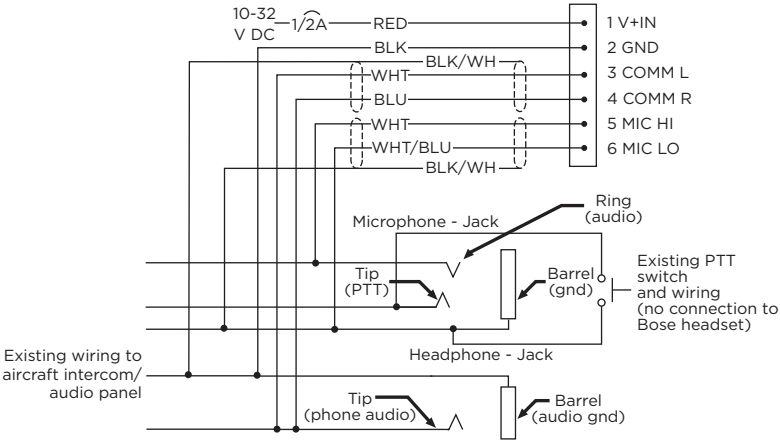
- Two for the microphone
- Two for audio
- One for power
- One for ground
- Two for audio shields

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.

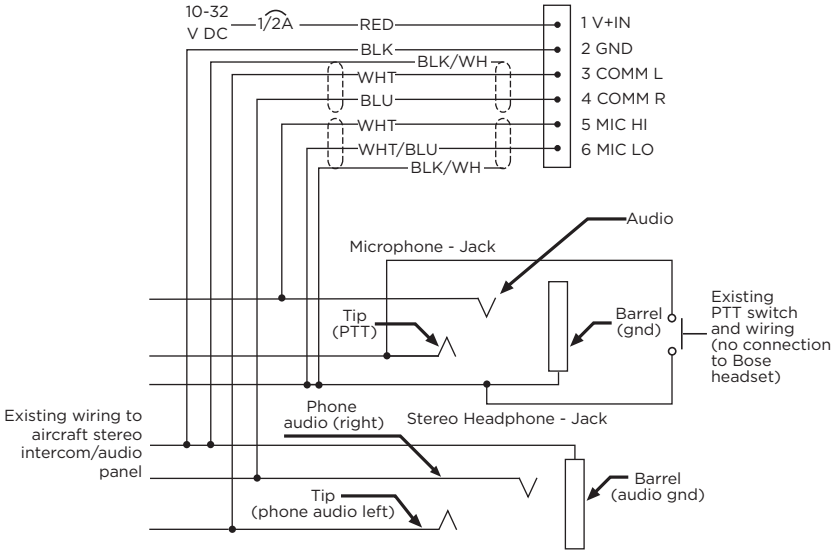
CAUTION: Do NOT use excessive force or bend the installed connector. This may damage or break internal solder joints.

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.		

HEADSET SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Headphone sensitivity	96.5 +/- 3.5 dBA SPL* *Measured per RTCA DO-214A Subparagraph 2.7.2.1(a)
Headphone impedance	Mono mode: 150 Ohm* Stereo mode: 300 Ohm* *Measured per RTCA DO-214A Subparagraph 2.3.4.1
Headphone frequency response	Total span (max - min) +/- 7.5 dB* *Measured per RTCA DO-214A Subparagraph 2.7.2.1(b)
Boom microphone sensitivity	400 mV RMS +/- 3 dB for 114 dB SPL at 1000 Hz* *Measured per RTCA DO-214A Subparagraphs 2.2.3.1 and 2.6.2.1
Boom microphone bias	Operating range: 8.0 - 16 VDC* *Measured per RTCA DO-214A Subparagraph 2.6.2.1
Maximum ambient noise level	Full active noise reduction operating range: 115 dB SPL Reduced active noise reduction operating range: 134 dB SPL
Battery power source	Two (2) AA alkaline batteries
Battery life	Up to 45 hours. Duration varies with battery quality, ambient noise levels, and use of the *Bluetooth* feature.
Aircraft power source	Aircraft power voltage range: 10 to 32 VDC
Average power consumption	300 mW
Fuse/breaker	1/4 amp, fast-blow fuse (AGC 1/4 amp fuse) or 1/2 amp circuit breaker
Headset weight	12 ounces (headset only)

SPECIFICATION	DESCRIPTION
Headset size range	Slider not extended: 8.425″ (214 mm) H x 6.34″ (161 mm) W x 3.15″ (80 mm) D Slider extended: 10.2″ (259 mm) H x 6.6″ (168 mm) W x 3.15″ (80 mm) D
Control module dimensions	1.5″ (38.1 mm) H x 1.5″ (38.1 mm) W x 4.92″ (125 mm) D
Temperature and Altitude (Category A2)	Operating: 5°F - 158°F (-15°C - 70°C) Storage: -67°F - 158°F (-55°C - 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

NOTE: Damage could occur to avionics equipment by the use of these headsets if equipment was manufactured for use with 600 Ω headsets only. If in doubt, consult the avionics equipment manufacturer.

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	A2
Salt fog	S
AF conducted susceptibility	B
Humidity	B
Magnetic effect	A
Power input	B
RF Susceptibility	TR
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 ISED Canada RF radiation exposure limits for general population. It must not be collocated or operating in conjunction with any other antenna or transmitter.

876056-0010

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