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Bose A30

Bose A30 Aviation Headset User Manual

Model: A30 | Brand: Bose

1. INTRODUCTION

The Bose A30 Aviation Headset is designed to provide superior comfort, audio clarity, and active noise cancellation for pilots and aviation professionals. This manual provides detailed instructions for the proper setup, operation, and maintenance of your A30 headset, ensuring optimal performance and longevity.

Key features include:

- **Unparalleled Comfort:** Lightweight design with 20% lower clamping force than previous models, ensuring comfort during extended use.
- **Active Equalization:** Shapes and equalizes incoming signals for unmatched audio clarity and intelligibility.
- **Three Selectable Modes of Active Noise Cancellation:** Industry-leading active noise reduction with adjustable modes to suit different environments or pilot preferences.
- **Precision-Focused Noise Cancelling Microphone:** Engineered for aircraft with "hot mic" or PTT systems to increase clarity and reduce background noise.
- **FAA TSO and EASA E/TSO-C139a Certified:** Robust design tested for endurance in challenging flight environments.
- **Removable and Side Swappable Down Cable and Mic:** Allows for flexible configuration without tools.
- **Bluetooth Audio:** Connects to mobile devices, audio systems, and electronic flight bags with audio prioritization.
- **Durable, Thin and Flexible Cable:** Provides increased freedom of movement and easy storage.

2. HEADSET COMPONENTS

Familiarize yourself with the main components of your Bose A30 Aviation Headset.



Figure 2.1: Front view of the Bose A30 Aviation Headset, showing the earcups, headband, and microphone boom arm.

This image displays the Bose A30 Aviation Headset from a slight angle, highlighting its over-ear design, padded headband, and the flexible microphone boom arm extending from the left earcup. The Bose logo is visible on the side of the earcup.

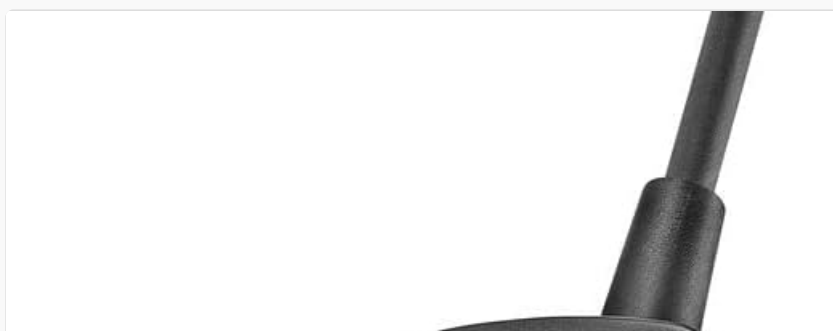




Figure 2.2: The A30 Control Module, showing various controls.

This image shows a close-up of the A30 control module. It features a power button, ANC mode selector (High, Med, Low), Bluetooth

button, and audio mix/mute switch. Volume control dials are located at the top.

- **Headband:** Adjustable for a secure and comfortable fit.
- **Earcups:** Designed for circumaural fit, providing passive noise attenuation and housing the active noise cancellation technology.
- **Microphone Boom:** Flexible arm for precise microphone positioning.
- **Control Module:** Houses power, ANR mode selection, Bluetooth controls, and volume adjustments.
- **Down Cable:** Connects the headset to the aircraft's audio system (XLR 5-Pin connector for this model).

3. SETUP AND INSTALLATION

3.1 Initial Setup

1. **Unpack Contents:** Carefully remove the headset and all accessories from the packaging. Ensure all components are present: A30 headset, control module, carrying case, and any included cables or adapters.
2. **Install Batteries (if applicable):** The A30 control module may require batteries for certain functions. Open the battery compartment and insert the specified battery type, observing polarity.
3. **Adjust Headband:** Extend or retract the headband slides to ensure the earcups rest comfortably and securely over your ears. The top of the headband should sit centrally on your head.
4. **Position Microphone:** Adjust the flexible microphone boom arm so the microphone is approximately one inch from your mouth, slightly to the side, to avoid breathing sounds.

3.2 Connecting to Aircraft

This Bose A30 model features an XLR 5-Pin connector for direct connection to compatible aircraft audio systems.

1. Locate the XLR 5-Pin jack in your aircraft's cockpit.
2. Align the connector on the headset's down cable with the aircraft's jack and firmly insert it until it clicks into place.
3. Ensure the cable is routed safely to avoid interference with controls or movement.



Figure 3.1: Bose A30 Headset shown with its carrying case, control module, and included accessories.

This image displays the Bose A30 headset alongside its protective carrying case, the control module, and other accessories such as batteries and an auxiliary cable, illustrating the complete package.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off and Active Noise Cancellation (ANR)

1. **Power On:** Press and hold the power button on the control module until the indicator light illuminates.
2. **Select ANR Mode:** Use the ANR mode switch on the control module to select between High, Medium, and Low noise cancellation settings. Choose the setting that best suits your environment and preference.
3. **Power Off:** Press and hold the power button until the indicator light turns off.

4.2 Bluetooth Connectivity

The A30 headset allows for Bluetooth connection to mobile devices and electronic flight bags.

1. **Pairing Mode:** With the headset powered on, press and hold the Bluetooth button on the control module until the Bluetooth indicator light blinks.
2. **Connect Device:** On your mobile device, navigate to Bluetooth settings and select "Bose A30" from the list of available devices.
3. **Audio Prioritization:** The headset is capable of prioritizing intercom audio over Bluetooth audio. Refer to the control module's audio mix/mute switch for options to mute or mix Bluetooth audio with intercom audio.

4.3 Microphone Usage

The precision-focused noise cancelling microphone is designed for clear communication.

- Ensure the microphone is positioned correctly, about one inch from your mouth.

- The microphone boom arm is side-swappable without tools, allowing you to configure it for left or right-side use.
- For aircraft with "hot mic" systems, the microphone is always active when the headset is connected and powered. For PTT (Push-to-Talk) systems, press the PTT button to transmit.



Figure 4.1: A pilot wearing the Bose A30 headset while operating an aircraft.

This image shows a male pilot in a cockpit, wearing the Bose A30 headset. The headset is positioned comfortably over his ears, and the microphone boom is correctly placed near his mouth, demonstrating typical in-use configuration.



Figure 4.2: A female pilot wearing the Bose A30 headset in a flight environment.

This image features a female pilot wearing the Bose A30 headset, looking forward in a cockpit setting. The headset's design appears sleek and unobtrusive, emphasizing its comfort and integration into the flight experience.

5. CARE AND MAINTENANCE

Proper care and maintenance will extend the life and performance of your Bose A30 headset.

5.1 Cleaning

- **Ear Cushions and Headband:** Wipe gently with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Control Module and Cables:** Use a dry, soft cloth to wipe surfaces. Avoid getting moisture into ports or openings.
- **Microphone Windscreen:** If removable, clean or replace as needed to maintain clear audio.

5.2 Storage

- Always store the headset in its provided carrying case when not in use to protect it from dust, dirt, and physical damage.
- Store in a cool, dry place, away from extreme temperatures and direct sunlight.
- If storing for an extended period, remove batteries from the control module to prevent leakage.

5.3 Earcup and Headband Cushion Replacement

Over time, ear cushions and headband cushions may wear out. Replacement kits are available from authorized Bose dealers. Follow the instructions provided with the replacement kit for proper installation.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Bose A30 headset.

Problem	Possible Cause	Solution
No audio from headset.	Headset not powered on; loose connection; aircraft intercom issue.	Ensure headset is powered on and batteries are charged. Check all cable connections. Verify aircraft intercom system is operational.
Poor audio quality or excessive noise.	Incorrect ANR mode; worn ear cushions; microphone not positioned correctly.	Adjust ANR mode. Inspect and replace ear cushions if worn. Reposition microphone closer to mouth.
Microphone not transmitting.	Microphone muted; PTT not engaged; faulty connection.	Check microphone mute switch on control module. Ensure PTT button is pressed (if applicable). Verify microphone boom is securely connected.
Bluetooth device not pairing.	Headset not in pairing mode; device too far; interference.	Ensure headset is in Bluetooth pairing mode (blinking light). Bring device closer. Turn off other Bluetooth devices temporarily.

If you continue to experience issues, please refer to the support section or contact Bose customer service.

7. SPECIFICATIONS

- **Brand:** Bose
- **Model:** A30 Aviation Headset
- **Color:** Black
- **Ear Placement:** Over Ear (Circumaural)
- **Form Factor:** Over Ear
- **Noise Control:** Active Noise Cancellation (ANC) with three selectable modes
- **Connectivity:** XLR 5-Pin aircraft connector, Bluetooth
- **Certifications:** FAA TSO C139a, EASA E/TSO-C139a
- **Microphone:** Noise-cancelling, side-swappable
- **Power Source:** Aircraft power via XLR 5-Pin, or batteries (type specified in control module)

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The Bose A30 Aviation Headset is covered by a limited warranty. Please refer to the warranty card included with your product or visit the official Bose website for detailed terms and conditions regarding coverage, duration, and claims process.

8.2 Customer Support

For technical assistance, troubleshooting, or service inquiries, please contact Bose customer support:

- **Website:** Visit the official [Bose Support Website](#) for FAQs, product registration, and contact information.
- **Phone:** Refer to the contact numbers provided on the Bose website for your region.
- **Authorized Service Centers:** For repairs, locate an authorized Bose service center through their website.

Please have your product model number (A30) and serial number ready when contacting support.



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