

Bose AMS-1 RA-8

Bose AMS-1 RA-8 Tuner-Integrated Amplifier User Manual

Model: AMS-1 RA-8

1. INTRODUCTION

Thank you for choosing the Bose AMS-1 RA-8 Tuner-Integrated Amplifier. This unit combines a high-quality AM/FM tuner with a powerful stereo amplifier, designed to deliver excellent audio performance. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. Please read it thoroughly before using the product and retain it for future reference.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, please observe the following precautions:

- **Power Source:** Connect the unit only to an AC power outlet of the specified voltage (100V, 50/60Hz for Japan).
- **Ventilation:** Ensure adequate ventilation. Do not block ventilation openings. Avoid installing the unit in a confined space.
- **Water and Moisture:** Do not expose the unit to rain or moisture. Do not place objects filled with liquids, such as vases, on the unit.
- **Heat:** Keep the unit away from heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
- **Cleaning:** Unplug the unit from the wall outlet before cleaning. Use a dry cloth only.
- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.
- **Speaker Connections:** Ensure correct polarity when connecting speakers to prevent damage to the

amplifier and speakers.

3. PRODUCT OVERVIEW

3.1 Front Panel Controls



Figure 1: Front view of the Bose AMS-1 RA-8 Tuner-Integrated Amplifier. This image shows the main display, input selector, tuning controls, and volume knob.

- **POWER/STANDBY:** Turns the unit on or off.
- **PHONES:** Headphone output jack.
- **INPUT SELECTOR:** Rotary knob to select the audio input source (e.g., TUNER, CD, MD, TAPE/AUX).
- **MULTI (Tuning/Enter):** Rotary knob used for tuning radio stations or navigating menu options. Press to confirm.
- **FUNCTION:** Button to cycle through various tuner functions or settings.
- **VOLUME:** Rotary knob to adjust the overall output volume.
- **DISPLAY/CLOCK:** Button to change display modes or set the clock.
- **MEMORY:** Button to store radio station presets.
- **CLEAR:** Button to clear settings or presets.
- **BAND:** Button to switch between AM and FM radio bands.
- **Display:** Digital display showing current input, frequency, and other operational information.

3.2 Rear Panel Connections



Figure 2: Rear view of the Bose AMS-1 RA-8 Tuner-Integrated Amplifier. This image displays the various input/output jacks, speaker terminals, and power connections.

- **AC IN:** Power cord input.
- **MAX 100W AC OUTLET UNWITCHED:** Unswitched AC power outlet for connecting other audio components.
- **SPEAKER SYSTEM:** Terminals for connecting left and right speakers. Ensure correct polarity (+/-).
- **FM (75Ω) ANTENNA:** Coaxial input for FM antenna.
- **GND:** Ground terminal.
- **AM ANTENNA:** Terminals for AM loop antenna.
- **SYSTEM CONTROL:** Connector for system control with compatible Bose components.
- **TAPE/AUX IN/OUT:** RCA input/output jacks for a tape deck or auxiliary device.
- **MD IN/OUT:** RCA input/output jacks for a MiniDisc player/recorder.
- **CD IN:** RCA input jacks for a CD player.

4. SETUP AND CONNECTIONS

Follow these steps to properly set up your Bose AMS-1 RA-8 amplifier.

4.1 Speaker Connections

1. Ensure the amplifier is turned off and unplugged from the power outlet.
2. Connect your speakers to the **SPEAKER SYSTEM** terminals on the rear panel.
3. Match the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier to the negative (-) terminal of the speaker. Incorrect polarity can result in poor sound quality.
4. Use high-quality speaker wire for optimal performance.

4.2 Audio Source Connections

Connect your audio components (CD player, MD player, tape deck, or other auxiliary devices) to the corresponding RCA input jacks on the rear panel.

- **CD Player:** Connect the RCA output cables from your CD player to the **CD IN** jacks.
- **MD Player:** Connect the RCA output cables from your MD player to the **MD IN** jacks. For recording, connect the MD input cables to the **MD OUT** jacks.
- **Tape Deck / Auxiliary Device:** Connect the RCA output cables from your tape deck or auxiliary device to the **TAPE/AUX IN** jacks. For recording, connect the tape deck input cables to the **TAPE/AUX OUT** jacks.

4.3 Antenna Connections

- **FM Antenna:** Connect a 75Ω coaxial FM antenna to the **FM (75Ω) ANTENNA** terminal. For best reception, use an outdoor FM antenna.
- **AM Antenna:** Connect the supplied AM loop antenna (or an external AM antenna) to the **AM ANTENNA** terminals. Position the AM loop antenna for optimal reception.

4.4 Power Connection

After all audio and speaker connections are made, plug the amplifier's power cord into a suitable AC power outlet.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation

1. **Power On/Off:** Press the **POWER/STANDBY** button to turn the amplifier on. Press it again to put the unit into standby mode.
2. **Input Selection:** Rotate the **INPUT SELECTOR** knob to choose your desired audio source (e.g., CD, MD, TAPE/AUX, TUNER). The selected input will be shown on the display.
3. **Volume Adjustment:** Rotate the **VOLUME** knob clockwise to increase the volume and counter-clockwise to decrease it. Start with a low volume level to avoid sudden loud sounds.
4. **Headphones:** Plug headphones into the **PHONES** jack for private listening. This will mute the main speaker output.

5.2 Tuner Operation

1. **Select Tuner Input:** Rotate the **INPUT SELECTOR** to TUNER.
2. **Select Band:** Press the **BAND** button to switch between AM and FM radio bands.
3. **Manual Tuning:** Rotate the **MULTI** knob to manually tune to a desired frequency.
4. **Automatic Tuning:** Press and hold the **MULTI** knob for a few seconds to initiate automatic scanning for the next available station.
5. **Storing Presets:**
 - a. Tune to the desired station.
 - b. Press the **MEMORY** button. The preset number will flash on the display.
 - c. Rotate the **MULTI** knob to select the desired preset number.
 - d. Press the **MULTI** knob again to confirm and store the station.
6. **Recalling Presets:** Press the **MEMORY** button, then rotate the **MULTI** knob to select the desired preset station. Press **MULTI** to confirm.

6. MAINTENANCE

Proper care will ensure the longevity and optimal performance of your amplifier.

- **Cleaning:**
 - Always unplug the unit before cleaning.
 - Use a soft, dry cloth to wipe the exterior surfaces.
 - Do not use abrasive cleaners, waxes, or solvents as they may damage the finish.
- **Ventilation:** Periodically check that the ventilation openings are not obstructed by dust or debris.
- **Storage:** If storing the unit for an extended period, unplug it from the power outlet and cover it to protect against dust.

7. TROUBLESHOOTING

If you experience problems with your amplifier, refer to the following table for possible solutions.

Problem	Possible Cause	Solution
No power	Power cord not securely connected.	Check power cord connection to the unit and wall outlet.
No sound	Incorrect input selected. Volume turned down. Speakers not connected properly. Headphones plugged in.	Select the correct input source. Increase the volume. Check speaker wire connections and polarity. Unplug headphones.
Poor radio reception	Antenna not connected or poorly positioned. Interference from other electronic devices.	Connect and adjust the position of the FM/AM antenna. Move the amplifier away from other electronic devices.

If the problem persists after trying these solutions, please contact Bose customer support.

8. SPECIFICATIONS

Feature	Description
Model	AMS-1 RA-8
Brand	Bose
Type	Tuner-Integrated Amplifier
Power Requirements	AC 100V, 50/60Hz (Assembled in Japan, 40W)
Weight	3.1 kg
Inputs	CD, MD, TAPE/AUX, FM Antenna (75Ω), AM Antenna
Outputs	Speakers, Headphones, TAPE/AUX OUT, MD OUT

Note: Specifications are subject to change without notice for product improvement.

9. WARRANTY AND SUPPORT

Bose products are designed for reliability and performance. For warranty information specific to your region and purchase, please refer to the warranty card included with your product or visit the official Bose website. For technical support, service, or replacement parts, please contact Bose customer service. Have your model number (AMS-1 RA-8) and serial number ready when contacting support.

You can find contact information on the official Bose website: www.bose.com/support

