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› Linear Series LSBT1B-AMP Bluetooth 5.3 Receiver-Amplifier User Manual

Linear Series LSBT1B-AMP

Linear Series LSBT1B-AMP Bluetooth 5.3 Receiver-Amplifier User Manual

Model: LSBT1B-AMP

For RVs, Auto, & Motorhomes

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Linear Series LSBT1B-AMP Bluetooth 5.3 Receiver-Amplifier. Please read this manual thoroughly before using the device to ensure proper function and safety.

SAFETY INFORMATION

- **Power Supply:** This device operates on a 12V DC power supply. Ensure the power source is stable and correctly wired to prevent damage to the unit or vehicle electrical system.
- **Wiring:** Always connect the power wires correctly (positive to positive, negative to negative). Incorrect wiring can cause damage and void the warranty. The unit features reverse polarity protection.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not cover the device or install it in an enclosed space without airflow.
- **Moisture:** Avoid exposing the unit to excessive moisture or water. This device is not waterproof unless explicitly stated.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified professional.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Linear Series LSBT1B-AMP Bluetooth 5.3 Receiver-Amplifier Module
- 6-Pin connector with 5A Fuse
- Mounting Screws

- User Manual (this document)

PRODUCT OVERVIEW

The Linear Series LSBT1B-AMP is a compact Bluetooth 5.3 receiver-amplifier designed to expand your audio system in RVs, automobiles, and motorhomes. It allows you to connect a single Bluetooth audio source to two sets of wired speakers.

Components and Controls



Image: Top view of the LSBT1B-AMP module, highlighting the control interface.

- **Power Button** (): Press and hold to power the unit on or off. A short press will mute/unmute the audio.
- **Link Button** (): Used to initiate Broadcast Mode, allowing multiple Linear Series devices to link together for expanded audio coverage.
- **LED Indicators**: Two small LEDs provide status feedback for power, Bluetooth connection, and broadcast mode.

SETUP AND INSTALLATION

1. Power Connection



Image: LSBT1B-AMP module with its 6-pin wiring harness.

1. Identify the 6-pin connector with the integrated 5A fuse.
2. Connect the **Red wire** to a switched 12V DC positive (+) power source.
3. Connect the **Black wire** to a chassis ground (-) or negative battery terminal.
4. The unit features reverse polarity protection, but correct wiring is always recommended.

2. Speaker Connection

1. The LSBT1B-AMP supports two sets of speakers.
2. Connect the **White wire** to the Left Front Speaker (+).

3. Connect the **White/Black wire** to the Left Front Speaker (-).
4. Connect the **Gray wire** to the Right Front Speaker (+).
5. Connect the **Gray/Black wire** to the Right Front Speaker (-).
6. Ensure all speaker connections are secure and correctly polarized to avoid audio issues.

3. Mounting

1. Choose a suitable, discreet location for mounting the unit. The compact design allows for flexible placement.
2. Use the provided mounting screws to secure the unit to a flat surface.
3. Ensure the mounting location allows for easy access to the power and link buttons if needed.

OPERATING INSTRUCTIONS

1. Powering On/Off

- To power on the unit, press and hold the Power button (I) for approximately 3 seconds. The power LED will illuminate.
- To power off, press and hold the Power button again for approximately 3 seconds. The power LED will turn off.
- A short press of the Power button will mute or unmute the audio output.

2. Bluetooth Pairing

1. Ensure the LSBT1B-AMP is powered on. The Bluetooth LED will flash, indicating it is in pairing mode.
2. On your Bluetooth-enabled device (smartphone, tablet, computer), go to the Bluetooth settings.
3. Scan for available devices. You should see "Linear Series" or a similar name appear in the list.
4. Select "Linear Series" to connect. Once connected, the Bluetooth LED on the LSBT1B-AMP will become solid.
5. You can now stream audio from your device to the LSBT1B-AMP.

3. Audio Playback

- Once paired, play audio from your connected device. The sound will be output through the speakers connected to the LSBT1B-AMP.
- Adjust the volume directly from your Bluetooth source device.

BROADCAST MODE

The LSBT1B-AMP features a Broadcast Mode, allowing you to link multiple Linear Series devices wirelessly to expand audio coverage across larger spaces or multi-room setups.

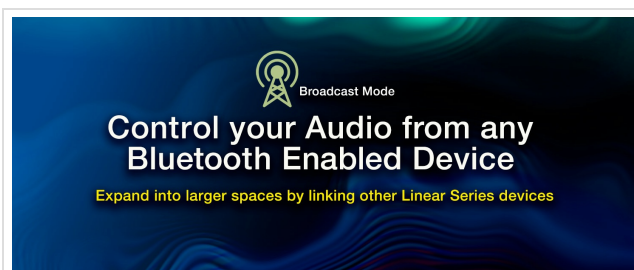


Image: Visual representation of the Broadcast Mode feature.

How to Use Broadcast Mode:

1. **Primary Unit:** Pair your Bluetooth device to one LSBT1B-AMP unit as described in the "Bluetooth Pairing" section. This will be your primary broadcasting unit.
2. **Secondary Units:** For each additional Linear Series device you wish to link, ensure it is powered on and not currently paired to any Bluetooth device.
3. **Initiate Broadcast:** On the primary unit, press the Link button (). The Link LED will flash.
4. **Link Secondary Units:** On each secondary unit, press its Link button. The Link LED on the secondary unit will also flash and then become solid once linked to the primary unit.
5. Audio from the primary unit's Bluetooth source will now be broadcast to all linked secondary units.
6. Up to 99 Linear Series devices can be linked in Broadcast Mode.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the unit. Do not use abrasive cleaners or solvents.
- **Storage:** If storing the unit for an extended period, disconnect it from the power source.
- **Fuse Replacement:** If the unit loses power, check the inline 5A fuse. Replace it with a fuse of the same rating if blown.

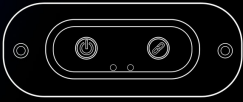
TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to the unit.	Incorrect wiring, blown fuse, no 12V supply.	Check 12V power connection. Verify ground connection. Inspect and replace 5A fuse if necessary.
Cannot pair via Bluetooth.	Unit not in pairing mode, device too far, interference, already paired to another device.	Ensure unit is powered on and Bluetooth LED is flashing. Move device closer. Disconnect from other Bluetooth devices. Restart both the LSBT1B-AMP and your source device.
No sound from speakers.	Incorrect speaker wiring, muted, low volume on source, faulty speakers.	Check speaker connections for correct polarity. Ensure unit is not muted (short press Power button). Increase volume on your source device. Test speakers with another audio source if possible.
Broadcast Mode not linking.	Secondary units already paired, not Linear Series devices, out of range.	Ensure secondary units are not paired to other Bluetooth devices. Confirm all units are Linear Series compatible. Bring units closer together.

SPECIFICATIONS

LSBT1B-AMP

- Wall Mount 2 x 25W Bluetooth Receiver-Amplifier Module
- Bluetooth 5.3
- 12V Power/Ground Connection
- Reverse Polarity Protection
- Multi Pairing feature (With other select Linear Series products) up to 99 devices
- 6-Pin connector w/ 5A Fuse
- Mounting Screws Included
- Patent Pending



5.2" W x 2" H x 1.8" D

Image: Technical specifications and dimensions of the LSBT1B-AMP.

- **Model:** LSBT1B-AMP
- **Type:** Wall Mount 2 x 25W Bluetooth Receiver-Amplifier Module
- **Bluetooth Version:** 5.3
- **Power Connection:** 12V DC (Power/Ground)
- **Protection:** Reverse Polarity Protection
- **Multi-Pairing:** Up to 99 devices (with select Linear Series products)
- **Connector:** 6-Pin with 5A Fuse
- **Audio Output Mode:** Stereo
- **Number of Channels:** 2
- **Dimensions (W x H x D):** 5.2" x 2" x 1.8"
- **Item Weight:** 5.3 ounces (0.15 Kilograms)
- **Color:** Black
- **Special Features:** Advanced Connectivity, Broadcast Mode, Effortless Pairing

WARRANTY AND SUPPORT

This Linear Series product is manufactured by Magnadyne and comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty details, please refer to the warranty card included with your purchase or visit the official Magnadyne website.

For technical support, troubleshooting assistance, or warranty claims, please contact Magnadyne customer service. Contact information can typically be found on the product packaging or the manufacturer's website.

Note: Unauthorized repairs or modifications will void the product warranty.