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› JBL R4500 Wake Series Source Unit User Manual

JBL JBL-R4500

JBL R4500 Wake Series Source Unit

USER MANUAL

Model: JBL-R4500

1. Introduction

Thank you for choosing the JBL R4500 Wake Series Source Unit. This marine receiver is designed to provide high-quality audio and versatile connectivity for your vessel. Featuring a 4-inch color screen, Bluetooth 5.0, AM/FM/WB tuner, USB input/charging, auxiliary input, and video input, the R4500 offers a comprehensive entertainment solution. Its robust design is engineered to withstand the marine environment, ensuring reliable performance. Key features include:

- Integrated AM, FM, and Weather Band (WB) tuner.
- 2 Ohm stability for connecting additional speakers without an external amplifier.
- Bluetooth 5.0 for improved speed and extended range.
- Vivid 4-inch LCD color screen for easy viewing.
- Rigorous reliability testing against UV, salt spray, rain, and spills.
- USB input with charging capability, auxiliary input, and video input.
- Rotary encoder for intuitive control.
- Three zone line level differential outputs.

2. Safety Information

Please read all safety instructions carefully before installing and operating the JBL R4500 Wake Series Source Unit. Failure to follow these instructions may result in injury or damage to the unit or vessel.

- **Power Supply:** Ensure the unit is connected to a 12V DC power source with proper grounding. Incorrect wiring can cause damage or fire.
- **Installation:** Professional installation is recommended. Ensure all connections are secure and insulated to prevent short circuits.
- **Water Exposure:** While the unit is water-resistant, avoid direct high-pressure water jets or submersion.

Ensure all covers and seals are properly secured.

- **Ventilation:** Do not block ventilation openings. Adequate airflow is necessary to prevent overheating.
- **Cleaning:** Use a soft, damp cloth for cleaning. Avoid abrasive cleaners or solvents.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

3. What's in the Box

Upon opening the packaging, please verify that all components are present:

- JBL JBL-R4500 WAKE Series Marine Source Unit
- Mounting hardware (screws, brackets)
- Wiring harness
- User Manual (this document)

4. Setup and Installation

Proper installation is crucial for optimal performance and longevity of your JBL R4500 unit. Consult a professional installer if you are unsure about any steps.

4.1 Mounting

The JBL R4500 is designed for flush mounting. Choose a location that is easily accessible, provides adequate ventilation, and is protected from direct exposure to extreme elements.

1. Cut an opening in the mounting surface according to the provided template (not included in this digital manual, refer to physical template).
2. Insert the unit into the opening.
3. Secure the unit using the supplied mounting brackets and screws.

4.2 Wiring Connections

Ensure the vessel's power is disconnected before making any electrical connections. Refer to the wiring diagram provided with your unit for detailed pinouts.

- **Power:** Connect the yellow wire to constant 12V DC (battery positive), the red wire to switched 12V DC (ignition), and the black wire to ground (battery negative/chassis ground).
- **Speakers:** Connect your speakers to the corresponding speaker output wires. The R4500 supports 2 Ohm stability, allowing for flexible speaker configurations.
- **RCA Outputs:** Utilize the three sets of line-level differential outputs (Front, Rear, Subwoofer) for connecting external amplifiers.
- **USB Input:** Connect USB devices for media playback or charging.
- **Auxiliary Input:** Connect external audio sources using a 3.5mm stereo cable.
- **Video Input:** Connect a video source for display on the unit's screen.
- **Antenna:** Connect your AM/FM/WB antenna.



Figure 1: Rear view of the JBL R4500 with wiring harness. This image illustrates the comprehensive wiring connections available on the back of the unit, including power, speaker outputs, RCA pre-outs, and various inputs like USB, auxiliary, and video.

5. Operating Instructions

Familiarize yourself with the controls and functions of your JBL R4500 unit.

5.1 Front Panel Controls

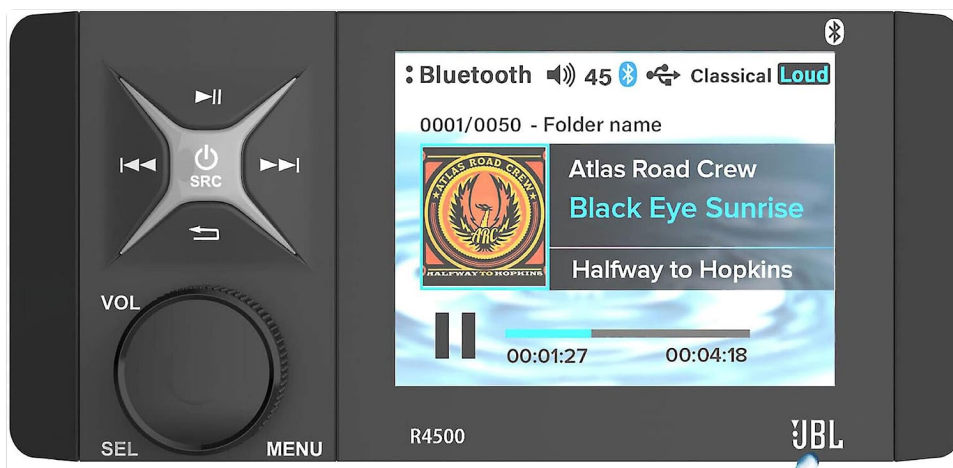


Figure 2: Front panel of the JBL R4500. This image shows the main display, the large rotary encoder for volume and menu navigation, and the directional control buttons for playback and source selection.

- **Power/SRC Button:** Press to turn the unit on/off. Press briefly to cycle through audio sources (AM/FM, Bluetooth, USB, AUX, Video).
- **Rotary Encoder (VOL/SEL/MENU):** Rotate to adjust volume. Press to select menu options or confirm settings. Press and hold to access the main menu.
- **Directional Buttons (◀◀, ▶▶, ▶▶, ◀◀):** Used for track skipping, station tuning, or menu navigation.
- **Play/Pause Button (▶ ▶):** Controls playback for media sources.

5.2 Bluetooth Operation

1. Turn on the JBL R4500.
2. Select Bluetooth as the source using the SRC button.
3. On your mobile device, search for Bluetooth devices and select "JBL R4500".
4. Once paired, you can stream audio from your device to the R4500.

5.3 Tuner Operation (AM/FM/WB)

1. Select AM, FM, or WB as the source.
2. Use the directional buttons to manually tune or seek for stations.
3. Save favorite stations to presets (refer to the on-screen menu for preset management).

5.4 USB and Auxiliary Input

- **USB:** Insert a USB drive into the USB port. The unit will automatically switch to USB source and begin playback of compatible audio files. The USB port also provides charging for connected devices.
- **Auxiliary:** Connect an external audio device to the 3.5mm AUX input. Select AUX as the source to listen to audio from the connected device.

5.5 Video Input

Connect a compatible video source to the video input. Select Video as the source to display the video feed on the 4-inch color screen.



Figure 3: JBL R4500 feature overview. This image highlights the key capabilities of the unit through a series of descriptive icons, including its tuner bands, Bluetooth version, display type, impedance stability, and various connectivity options.

6. Maintenance

Regular maintenance will help ensure the longevity and optimal performance of your JBL R4500 unit.

- **Cleaning:** Gently wipe the unit's surface with a soft, damp cloth. For stubborn dirt, use a mild soap solution and then wipe dry. Do not use harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish or screen.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent performance or damage.
- **Environmental Care:** While the R4500 is designed for marine environments, prolonged exposure to direct sunlight, extreme temperatures, or salt spray can affect its lifespan. Consider using a protective cover when the unit is not in use for extended periods.

7. Troubleshooting

If you encounter issues with your JBL R4500, refer to the following common problems and solutions before contacting customer support.

Problem	Possible Cause	Solution
No Power	Blown fuse; Incorrect wiring; Low battery voltage.	Check the fuse on the power wire and replace if necessary. Verify all power and ground connections. Ensure the vessel's battery is adequately charged.
No Sound	Volume too low; Mute activated; Incorrect source selected; Speaker wiring issue.	Increase volume. Check if the unit is muted. Select the correct audio source. Verify speaker connections are secure and not shorted.
Bluetooth Not Connecting	Device not in pairing mode; Unit not in Bluetooth source; Interference.	Ensure your device's Bluetooth is on and in pairing mode. Select Bluetooth source on the R4500. Move closer to the unit. Try unpairing and re-pairing the device.
USB Playback Issues	Incompatible file format; Corrupted USB drive; USB drive not properly inserted.	Ensure audio files are in a compatible format. Try a different USB drive. Reinsert the USB drive firmly.
Screen Not Displaying Correctly	Software glitch; Power issue.	Try turning the unit off and on again. Ensure stable power supply.

8. Specifications

Detailed technical specifications for the JBL R4500 Wake Series Source Unit:

Feature	Specification
Model Name	JBL-R4500
Product Dimensions (D x W x H)	0.44"D x 6.44"W x 3"H

Feature	Specification
Item Weight	2.1 Pounds
Material	Plastic
Color	Black
Speaker Maximum Output Power	55 Watts
Impedance	2 Ohm
Wireless Communication Technology	Bluetooth 5.0
Connectivity Technology	Auxiliary, Bluetooth, USB
Tuner	AM, FM, WB
Display	4-inch Color Screen (LCD)
Audio Output Mode	Left, Right, Subwoofer (3 Zone Line Level Differential Outputs)
Control Method	Rotary Encoder, Buttons, Remote (optional)
Water Resistance Level	Water Resistant
Recommended Uses For Product	For Music Players, Marine Applications
Included Components	JBL JBL-R4500 WAKE Series Marine Source Unit
UPC	648701264514

9. Warranty and Support

The JBL R4500 Wake Series Source Unit comes with a Full Warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official JBL website.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact JBL customer service. You can find contact information on the official JBL website or through your authorized dealer. Visit the [JBL Store on Amazon](#) for more information on JBL products and accessories.

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