

JL AUDIO JX360/2

JL AUDIO JX360/2 2-Channel Amplifier Instruction Manual

Model: JX360/2

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JL AUDIO JX360/2 2-Channel Amplifier. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the unit or associated components.

The JX360/2 is a Class A/B full-range amplifier designed to deliver reliable power and high-quality audio performance. It features a high-mass heatsink for improved thermal capacity, captured power and speaker connectors for easier installation and enhanced safety, and comprehensive signal processing capabilities.

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any part of the installation process, consult a qualified professional.

2.1 Mounting the Amplifier

Select a mounting location that provides adequate ventilation and protection from moisture and excessive heat. Ensure the amplifier is securely fastened to a solid surface to prevent movement during vehicle operation.



Image 1: Top-down view of the JL AUDIO JX360/2 amplifier, showcasing its brushed aluminum finish and model number.

2.2 Power Connections

Connect the amplifier to the vehicle's electrical system using appropriate gauge wiring. The JX360/2 features captured power and speaker connectors for secure and simplified wiring.

1. Connect the **+12VDC** terminal to the positive terminal of the vehicle's battery via a fuse or circuit breaker (not included). The fuse/breaker should be located within 18 inches (45 cm) of the battery.
2. Connect the **Ground** terminal to a clean, unpainted metal surface of the vehicle chassis. Ensure a solid electrical connection.
3. Connect the **Remote** terminal to the remote turn-on output of your head unit. This wire signals the amplifier to turn on and off with the head unit.



Image 2: View of the JL AUDIO JX360/2 amplifier's power input (+12VDC, Ground, Remote) and speaker output terminals (Bridged, R, L).

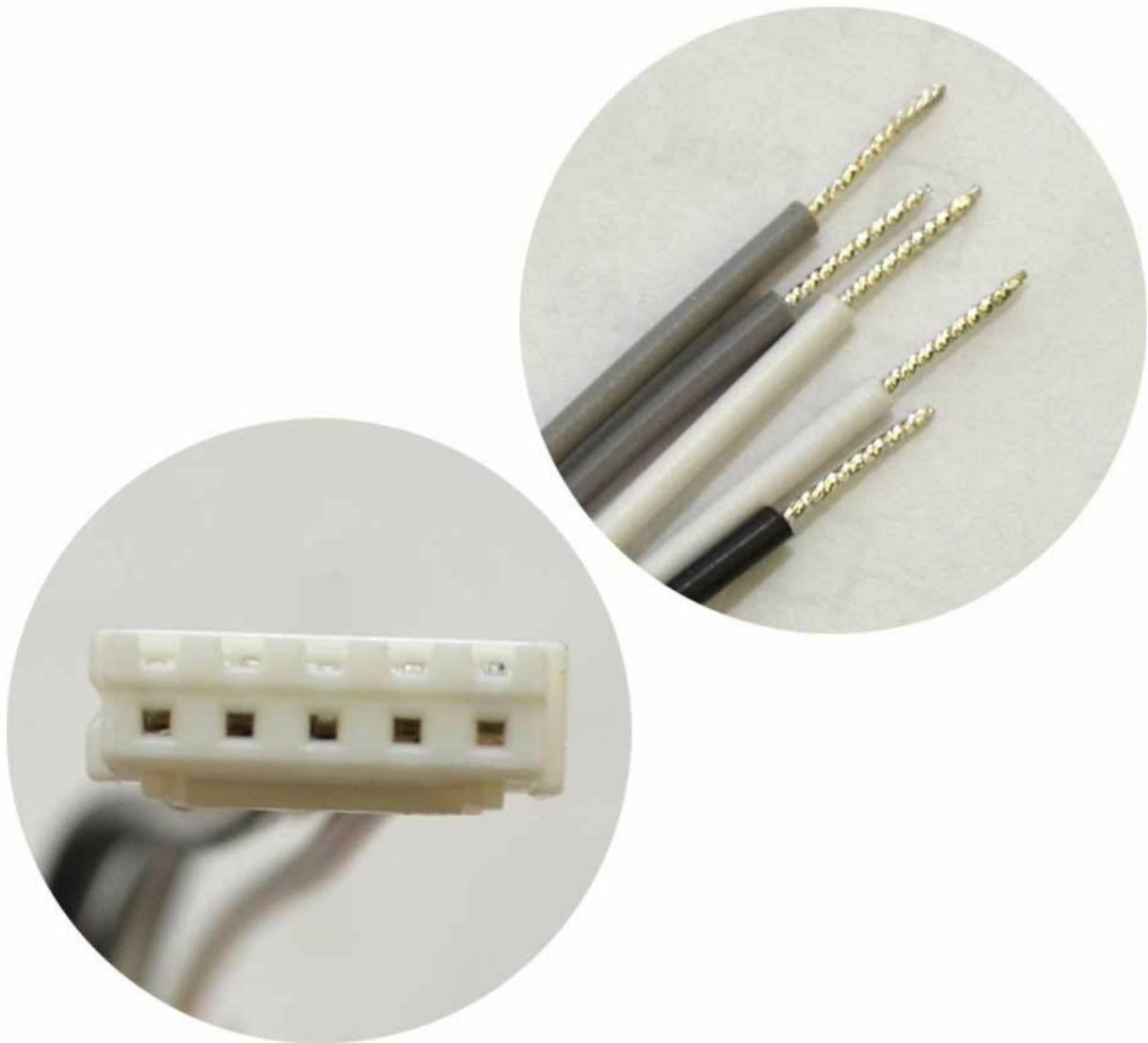


Image 3: Close-up view of the captured wiring connectors for the JL AUDIO JX360/2 amplifier, showing the pre-tinned wire ends for easy insertion.

2.3 Audio Input Connections

The JX360/2 supports both high-level (speaker level) and low-level (RCA) inputs.

- **Low-Level Inputs (RCA):** Connect RCA cables from your head unit's preamp outputs to the amplifier's "Low-Level Inputs."
- **High-Level Inputs:** If your head unit does not have RCA outputs, connect the speaker wires directly to the amplifier's "Hi-Level Inputs" using the provided connector.

2.4 Speaker Output Connections

Connect your speakers to the amplifier's speaker output terminals. Ensure correct polarity (+ to + and - to -) for each speaker.

- For 2-channel stereo operation, connect one speaker to the Left (+) and Left (-) terminals, and another speaker to the Right (+) and Right (-) terminals.
- For bridged mono operation (e.g., for a subwoofer), connect the speaker to the "Bridged" terminals as

indicated on the amplifier. The JX360/2 can deliver 360W into a 4-ohm load when bridged.



Image 4: View of the JL AUDIO JX360/2 amplifier's input and control panel, including RCA inputs, high-level inputs, filter controls, and input sensitivity adjustment.

3. OPERATING THE AMPLIFIER

3.1 Initial Power-Up

After all connections are made, turn on your head unit. The amplifier should power on automatically via the remote turn-on wire. Observe the power indicator light on the amplifier.

3.2 Adjusting Input Sensitivity (Gain)

The "Input Sens." control matches the amplifier's input sensitivity to the output voltage of your head unit. Start with the control at its minimum setting. Play a dynamic piece of music through your system. Slowly increase the "Input Sens." control until you hear distortion, then back it off slightly. This ensures maximum clean output from the amplifier.

3.3 Filter Settings

The JX360/2 features a 12 dB/octave variable filter, adjustable from 50 Hz to 500 Hz. This allows you to optimize the frequency response for your speakers.

- **HP (High-Pass):** Use this setting to block low frequencies from reaching your full-range speakers, preventing distortion and improving clarity.
- **LP (Low-Pass):** Use this setting when driving a subwoofer, allowing only low frequencies to pass through.
- **Full:** Disables the filter, allowing the full frequency range to pass.

Adjust the "Filter Freq." knob to select the desired crossover point.

3.4 Pass-Through Preamp Outputs

The amplifier includes pass-through preamp outputs, allowing you to send the audio signal to another amplifier in your system without requiring additional RCA outputs from your head unit.

4. MAINTENANCE

The JL AUDIO JX360/2 amplifier is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's heatsink fins are not obstructed. Adequate airflow is essential for proper cooling.
- **Connections:** Occasionally check all power, ground, and speaker connections to ensure they remain secure. Loose connections can lead to performance issues or damage.

5. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions:

5.1 No Power / Amplifier Does Not Turn On

- Check the main fuse or circuit breaker on the +12VDC power line.
- Verify the ground connection is secure and making good contact with the chassis.
- Ensure the remote turn-on wire is connected and receiving +12V from the head unit when it is on.
- Check all power and ground connections at the amplifier terminals.

5.2 No Audio Output

- Confirm the amplifier is powered on (power indicator light is illuminated).
- Check all RCA or high-level input connections from the head unit to the amplifier.
- Verify speaker wire connections at both the amplifier and the speakers. Ensure correct polarity.
- Check the head unit's volume and source selection.
- Ensure the "Input Sens." control is not set to minimum.

5.3 Distortion or Poor Sound Quality

- Adjust the "Input Sens." (gain) control. If set too high, it can cause distortion.
- Check speaker impedance. Ensure it is within the amplifier's recommended range (2 ohms stereo, 4 ohms

bridged).

- Verify filter settings (HP/LP/Full) are appropriate for your speakers.
- Inspect speaker wires for shorts or frayed strands.
- Ensure adequate power supply to the amplifier. Voltage drops can cause distortion.

5.4 Amplifier Overheats (Protection Mode)

- Ensure the amplifier has sufficient ventilation. Clear any obstructions around the heatsink.
- Check speaker impedance. Running speakers with too low an impedance can cause overheating.
- Reduce the "Input Sens." (gain) setting.
- Verify the power and ground connections are secure and of adequate gauge.
- Allow the amplifier to cool down. If the issue persists, consult a professional.

6. SPECIFICATIONS

Feature	Detail
Model	JX360/2
Amplifier Class	Class A/B
Channels	2-Channel
Rated Power (RMS) @ 14.4V	2 x 110 W @ 4 ohms 2 x 180 W @ 2 ohms 1 x 360 W @ 4 ohms (bridged)
Maximum Output Power	360 Watts
Operating Voltage	14.4 Volts (nominal)
Signal Processing	12 dB/octave High-Pass or Low-Pass Filter
Filter Frequency Range	50 - 500 Hz (variable)
Inputs	Low-Level (RCA), High-Level (Speaker Level)
Outputs	Pass-Through Preamp Outputs
Dimensions (L x W x H)	41.4 x 24.13 x 9.65 cm (approx. 16.3 x 9.5 x 3.8 inches)
Weight	3.86 kg (8.5 lbs)

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official JL AUDIO website. Keep your purchase receipt as proof of purchase for warranty claims.

For technical support or service inquiries, please contact JL AUDIO customer service or an authorized JL AUDIO dealer. Contact information can typically be found on the manufacturer's website or in your product packaging.

Note: Spare parts availability information is not provided by the manufacturer.

