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> JBL Club 6500C 6.5-inch Component Speaker System User Manual

JBL CLUB 6500C

JBL Club 6500C 6.5-inch Component Speaker System User Manual

Model: CLUB 6500C

Introduction Safety Information Package Contents Setup &
Installation Operation Maintenance Troubleshooting Specifications Warranty & Support

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your JBL Club 6500C 6.5-inch Component Speaker System. This system is designed to deliver high-quality audio performance in a vehicle environment, featuring a woofer, tweeter, and external crossover for optimized sound reproduction. Please read this manual thoroughly before installation and use to ensure proper setup and to maximize the lifespan of your product.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated to prevent electrical shorts and damage to the vehicle's electrical system.
- Mount speakers securely to prevent them from becoming loose during vehicle operation, which could cause injury or damage.
- Avoid installing speakers in locations that obstruct airbags, driver visibility, or vehicle controls.
- Do not operate the audio system at excessively high volumes for prolonged periods, as this can cause hearing damage.
- Consult a professional installer if you are unsure about any part of the installation process.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- Two (2) 6.5-inch Woofers
- Two (2) Tweeters
- Two (2) External Crossovers
- Mounting Hardware (screws, clips, tweeter mounting cups)
- Speaker Grilles (if included with specific model variant)





Image: Included mounting hardware and accessories for the JBL Club 6500C speaker system.

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JBL CLUB SERIES
Boost your trip with quality tracks
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Image: The retail packaging for the JBL Club 6500C, displaying the woofer, tweeter, and crossover components.

4. SETUP & INSTALLATION

Proper installation is crucial for optimal performance. Follow these steps carefully:

4.1. Planning the Installation

- Choose suitable mounting locations for the woofers, tweeters, and crossovers. Woofers are typically installed in factory speaker locations (e.g., door panels). Tweeters can be flush-mounted, surface-mounted, or angle-mounted depending on the desired sound staging and available space. Crossovers should be mounted in a dry, accessible location, away from heat sources.
- Ensure there is sufficient mounting depth for the woofers. Refer to the specifications section for dimensions.



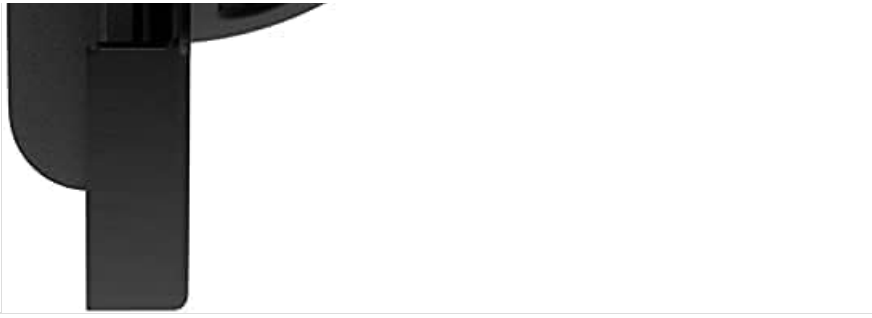


Image: Side profile of the JBL Club 6500C woofer, illustrating its mounting depth requirements.



Image: Detailed technical drawing providing precise dimensions for the JBL Club 6500C woofer, tweeter, and crossover components, essential for custom installations.

4.2. Woofer Installation

1. Remove the existing factory speaker from its mounting location.
2. Place the JBL Club 6500C woofer into the opening. If necessary, use the provided mounting adapters or create a custom adapter plate to ensure a secure fit.
3. Secure the woofer using the supplied screws. Do not overtighten.

4.3. Tweeter Installation

Tweeters can be installed in various ways:

- **Flush Mount:** Cut a circular hole in the desired location (e.g., door panel, A-pillar) using the provided template. Insert the tweeter into the flush-mount cup and secure it.
- **Surface Mount:** Use the surface-mount cup and screws to attach the tweeter directly to a flat surface.
- **Angle Mount:** Utilize the angle-mount cups to direct the tweeter's sound towards the listening position.

4.4. Crossover Installation

Mount the passive crossover network in a secure, dry location, such as inside the door panel or under the dashboard. Ensure it is protected from moisture and excessive heat.

4.5. Wiring Connections

Connect the speakers to the crossover and the crossover to your amplifier/head unit as shown in the diagram below. Pay close attention to polarity (+ and -) to ensure correct phase and optimal sound quality.

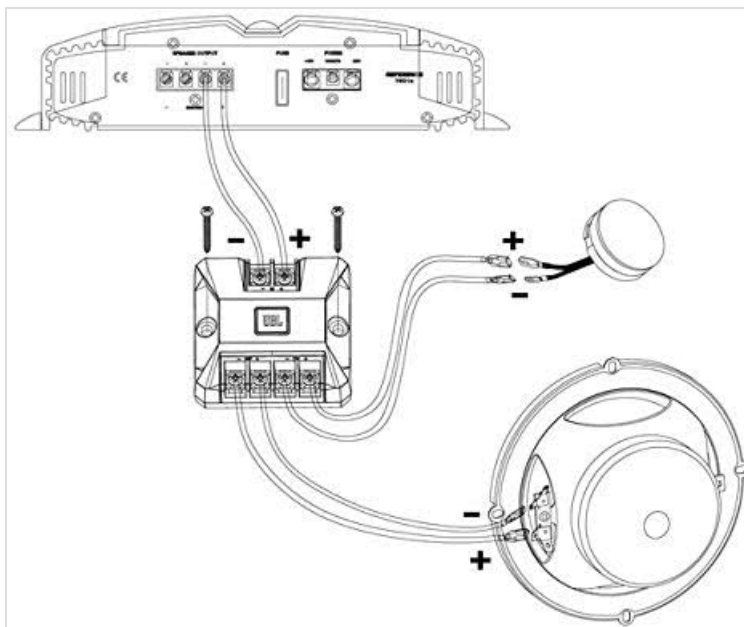


Image: Wiring diagram illustrating connections between the amplifier/head unit, passive crossover, woofer, and tweeter for the JBL Club 6500C system.

- Connect the amplifier's output to the "INPUT" terminals on the crossover.
- Connect the "WOOFER" terminals on the crossover to the woofer.
- Connect the "TWEETER" terminals on the crossover to the tweeter.
- Ensure all connections are tight and secure.



Image: The JBL Club 6500C woofer professionally installed within a car door panel, demonstrating a typical mounting scenario.

5. OPERATION

Once installed, the JBL Club 6500C component speaker system operates as part of your vehicle's audio setup. These speakers are passive and require an external amplifier or head unit to function.

- **Initial Power-Up:** After installation, reconnect the vehicle's battery. Turn on your head unit or amplifier at a low volume setting.
- **Audio Adjustment:** Gradually increase the volume and adjust audio settings (bass, treble, balance, fader) on your head unit or amplifier to achieve your preferred sound.
- **Break-in Period:** Speakers may require a short break-in period (typically several hours of use) to reach their optimal performance. During this time, avoid playing them at extremely high volumes.

6. MAINTENANCE

The JBL Club 6500C speakers are designed for durability and require minimal maintenance.

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the speaker grilles and cones. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Periodically check speaker mounts and wiring connections to ensure they remain secure.
- **Environmental Factors:** While designed for the car environment, avoid exposing speakers to excessive moisture or direct sunlight for prolonged periods, as this can degrade materials over time.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No sound from speakers	<ul style="list-style-type: none">• Loose or incorrect wiring connections• Amplifier/head unit not powered on or faulty• Crossover incorrectly wired	<ul style="list-style-type: none">• Check all wiring connections for proper polarity and secure fit.• Verify amplifier/head unit power and functionality.• Review wiring diagram and ensure crossover connections are correct.
Distorted sound	<ul style="list-style-type: none">• Volume too high, causing clipping• Incorrect gain settings on amplifier• Loose speaker mounting• Damaged speaker cone or voice coil	<ul style="list-style-type: none">• Reduce volume.• Adjust amplifier gain settings according to manufacturer recommendations.• Ensure speakers are securely mounted.• Inspect speakers for physical damage.
One speaker not working	<ul style="list-style-type: none">• Faulty wiring to that specific speaker• Faulty crossover output for that speaker• Damaged speaker	<ul style="list-style-type: none">• Check wiring from crossover to the non-working speaker.• Test the speaker with a known good audio source if possible.• Consult a professional for diagnosis if wiring is confirmed correct.

8. SPECIFICATIONS

Technical specifications for the JBL Club 6500C Component Speaker System:

Feature	Detail
Model Name	CLUB 6500C
Brand	JBL
Speaker Type	Component
Speaker Size	6.5 Inches (16.5 cm) Woofer
Tweeter Diameter	2.54 Centimeters (1 inch)
Speaker Maximum Output Power	180 Watts
Frequency Response	20 KHz (Upper limit, typical range for car audio is broader)
Audio Output Mode	Stereo
Connectivity Technology	Wired
Enclosure Material	Polypropylene
Item Weight	1.67 Kilograms
Compatible with Vehicle Type	Bus, Car, Truck
Audio Driver Type	Dynamic Driver
Signal-to-Noise Ratio	70 dB

9. WARRANTY & SUPPORT

JBL products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official JBL website. For technical support, product registration, or service inquiries, please contact JBL customer service through their official channels.

Note: Unauthorized modifications or improper installation may void the product warranty.

