

Excalibur X693

Excalibur X693 6x9 inch 3-Way Car Speaker Instruction Manual

Model: X693

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Excalibur X693 6x9 inch 3-Way Car Speakers. These speakers are designed to enhance your in-car audio experience by delivering powerful bass, clear mid-range, and precise treble. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.



Figure 1: Front view of the Excalibur X693 6x9 inch 3-Way Car Speaker.

2. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- **Professional Installation Recommended:** Car audio installation can be complex. If you are unsure about any step, seek assistance from a qualified professional installer.
- **Disconnect Power:** Before beginning any installation, disconnect the vehicle's battery to prevent electrical shorts and damage.
- **Wiring:** Ensure all wiring is correctly connected and insulated to prevent short circuits. Use appropriate gauge wires for power and speaker connections.
- **Mounting:** Securely mount speakers to prevent them from becoming loose during vehicle operation, which could cause injury or

damage.

- **Ventilation:** Ensure adequate ventilation around the speakers and any connected amplifiers to prevent overheating.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume to a comfortable level.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2x Excalibur X693 6x9 inch 3-Way Car Speakers
- 2x Protective Grilles
- Mounting Accessories (screws, clips, etc.)



Figure 2: Excalibur X693 product packaging.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Checks

- Ensure the speaker dimensions (16.4 x 23.4 cm) and mounting depth (75mm) are compatible with your vehicle's speaker locations.
- Confirm that your car audio system (head unit or amplifier) can support a 4 Ohm impedance load.
- Gather necessary tools: screwdriver set, wire strippers, crimping tool, drill (if new holes are needed), and safety glasses.

4.2 Mounting the Speakers

1. Carefully remove the existing speakers or trim panels from the desired installation location (e.g., rear deck, door panels).
2. Position the Excalibur X693 speaker in the opening. If necessary, use the provided mounting template (if included) to mark and drill new screw holes.
3. Secure the speaker using the supplied mounting screws. Ensure it is firmly seated and does not vibrate.
4. Attach the protective grilles over the speakers if desired, using the provided clips or screws.



Excalibur Speakers

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Figure 3: Example of car speaker installation.

4.3 Wiring Connections

1. Identify the positive (+) and negative (-) terminals on the Excalibur X693 speaker. These are typically marked on the speaker's terminal block.
2. Connect the positive (+) speaker wire from your car's audio system to the positive (+) terminal on the speaker.
3. Connect the negative (-) speaker wire from your car's audio system to the negative (-) terminal on the speaker.
4. Ensure all connections are secure and properly insulated to prevent short circuits.



Figure 4: Rear view of the speaker with wiring terminals.

5. OPERATING INSTRUCTIONS

Once the speakers are correctly installed and wired, reconnect your vehicle's battery. Turn on your car's audio system and test the sound output.

- **Initial Playback:** Start with a low volume and gradually increase it to ensure all speakers are functioning correctly and without distortion.
- **Sound Adjustment:** The Excalibur X693 speakers offer a wide frequency response from 50Hz to 20kHz. Use your car stereo's equalizer or tone controls to fine-tune the bass, mid-range, and treble to your preference.
- **Power Handling:** These speakers have a nominal RMS power handling of 100W and a peak power handling of 500W. Avoid exceeding these limits to prevent damage. The 90dB sensitivity ensures efficient sound output even with factory head units.

6. MAINTENANCE

To ensure optimal performance and longevity of your Excalibur X693 speakers, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker grilles and surrounds. Avoid using harsh chemicals or abrasive cleaners, which can damage the speaker materials.
- **Inspection:** Periodically check the speaker mounting screws and wiring connections to ensure they remain secure. Loose connections can lead to poor sound quality or intermittent operation.
- **Environmental Factors:** While the speakers are designed for automotive use, avoid exposing them to excessive moisture or extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your Excalibur X693 speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speakers	Loose or incorrect wiring; amplifier/head unit off or faulty; speaker damaged.	Check all wiring connections for proper polarity and security. Ensure the audio source is on and functioning. Test with another known-good speaker if possible.
Distorted sound	Volume too high; incorrect equalizer settings; damaged speaker; insufficient power.	Reduce volume. Adjust equalizer settings to flat or default. Inspect speaker cone for damage. Ensure amplifier provides adequate power without clipping.
Intermittent sound	Loose wiring connection; faulty speaker wire.	Check and secure all wiring connections. Replace speaker wire if damaged.

If the problem persists after attempting these solutions, contact customer support or a qualified car audio technician.

8. SPECIFICATIONS

Feature	Specification
Brand	Excalibur
Model Name	Excalibur x693
Speaker Type	3-Way Coaxial (Woofer, Mid-range, Tweeter)
Speaker Size	16 x 23 cm (6x9 inches)
Maximum Output Power	500 Watts
RMS Power	100 Watts
Frequency Response	50Hz – 20kHz
Sensitivity	90 dB
Impedance	4 Ohms
Mounting Depth	75 mm
Material	Metal (internal components)

Feature	Specification
Compatible Vehicle Types	Ford, Mazda, Fiat (and others with compatible dimensions)
Number of Items	2 (pair of speakers)



Figure 5: Excalibur X693 dimensional drawing.

9. WARRANTY INFORMATION

The Excalibur X693 speakers come with a **2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, abuse, accidents, or unauthorized modifications.

10. CUSTOMER SUPPORT

For further assistance, technical support, or warranty inquiries, please refer to the contact information provided with your purchase or visit the official Excalibur website. When contacting support, please have your product model (X693) and proof of purchase readily available.