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- › **Massive Audio** /
- › Massive Audio FC6X 6.5" 2-Way Coaxial Speakers Instruction Manual

## Massive Audio FC6X

# Massive Audio FC6X 6.5" 2-Way Coaxial Speakers Instruction Manual

## INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Massive Audio FC6X 6.5" 2-Way Coaxial Speakers. These speakers are designed to deliver high-quality audio performance in a vehicle environment. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.

## SAFETY INFORMATION

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Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's battery before beginning any electrical work to prevent short circuits.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration or sharp edges.
- Do not install speakers in locations that obstruct vehicle operation or safety features.
- Use appropriate tools and protective gear during installation.
- Avoid exposing speakers to excessive moisture or extreme temperatures. These speakers are not water resistant.

## PACKAGE CONTENTS

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Verify that all items are present in the package:

- (2) FC6X Coaxial Speakers

## SETUP AND INSTALLATION

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### Pre-Installation Checks

- Confirm the mounting location in your vehicle can accommodate 6.5-inch speakers.
- Ensure there is sufficient depth for the speaker's magnet structure, considering the shallow mount design.
- Check for any existing wiring and plan your new speaker wire routing.

## Mounting Instructions

The FC6X speakers feature a shallow mount design for easier integration into various vehicle door panels or speaker locations. The mounting type is surface mount.

1. Carefully remove the existing speakers or trim panels from the desired installation location.
2. Position the FC6X speaker in the opening. Mark the screw holes if not pre-drilled.
3. Drill pilot holes if necessary, ensuring not to damage any underlying components.
4. Secure the speaker using appropriate screws, ensuring a snug fit without overtightening.



**Image 1:** Front view of the Massive Audio FC6X 6.5 inch coaxial speaker, showing the cone and central tweeter. This image illustrates the speaker's primary appearance when installed.



**Image 2:** Side profile of the Massive Audio FC6X speaker. This view emphasizes the shallow mounting depth, which allows for easier installation in confined spaces within a vehicle.

### Wiring

The FC6X speakers have a 4 Ohm impedance. Ensure your amplifier or head unit is stable at this impedance. Connect the positive (+) terminal of the speaker to the positive (+) output of your amplifier/head unit, and the negative (-) terminal of the speaker to the negative (-) output.

- Use high-quality speaker wire of appropriate gauge for your power levels.
- Maintain correct polarity for all speakers to ensure proper sound staging and bass response.



**Image 3:** Rear view of the Massive Audio FC6X speaker. This image displays the magnet structure and the wiring terminals, indicating where to connect the speaker wires.

## OPERATION

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Once installed, the FC6X speakers are ready for operation. They are designed for car audio systems but can also be used with compatible devices such as smartphones, tablets, MP3 players, desktops, laptops, televisions, and projectors, provided appropriate amplification is used.

- **Power Handling:** The speakers can handle 100W RMS and 200W peak power. Ensure your amplifier's output matches these specifications to prevent damage.
- **Impedance:** The nominal impedance is 4 Ohms.
- **Frequency Response:** The speakers have a frequency response up to 10 KHz.
- **Signal-to-Noise Ratio:** A signal-to-noise ratio of 91 dB indicates efficient sound reproduction.
- **Audio Output Mode:** Stereo.
- **Control Method:** Touch (referring to the connected audio source's controls).

Adjust volume levels gradually to avoid sudden loud sounds. For optimal sound quality, consider tuning your audio system's equalizer and crossover settings.

## MAINTENANCE

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Proper maintenance ensures the longevity and performance of your speakers.

- **Cleaning:** Use a soft, dry cloth to gently wipe dust from the speaker cones and grilles. Avoid using harsh chemicals or abrasive cleaners.
- **Environmental Conditions:** These speakers are not water resistant. Avoid exposure to water, excessive humidity, or direct sunlight for prolonged periods.
- **Inspection:** Periodically check speaker connections for tightness and inspect speaker surrounds for any signs of wear or damage.

## TROUBLESHOOTING

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If you encounter issues with your FC6X speakers, refer to the following common problems and solutions:

- **No Sound:**

- Check all wiring connections at both the speaker and the amplifier/head unit. Ensure they are secure and correctly polarized.
- Verify that the amplifier/head unit is powered on and functioning correctly.
- Check the audio source for proper playback.

- **Distorted Sound:**

- Reduce the volume level. Distortion often occurs when the amplifier or speakers are overdriven.
- Check for loose wiring or short circuits.
- Ensure the amplifier's gain settings are not set too high.
- Inspect the speaker cone and surround for physical damage.

- **Weak Bass or Treble:**

- Verify correct speaker polarity. Incorrect polarity can cause phase cancellation, leading to weak bass.
- Adjust the equalizer settings on your head unit or amplifier.
- Ensure the speakers are properly sealed in their mounting location to optimize bass response.

## **SPECIFICATIONS**

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Feature	Specification
Model Name	FC6X
Speaker Type	Coaxial
Speaker Size	6.5 Inches
Woofer Diameter	6.5 Inches
Tweeter Diameter	20 Millimeters
RMS Power	100 Watts (estimated from product description, max output 150W)
Peak Power	200 Watts (estimated from product description, max output 150W)
Impedance	4 Ohms
Frequency Response	10 KHz (upper limit provided)
Signal-to-Noise Ratio	91 dB
Mounting Type	Surface Mount
Material	Aluminum
Product Dimensions	15"D x 8"W x 5.5"H
Item Weight	10 pounds
Water Resistance Level	Not Water Resistant
Included Components	(2) FC6X Coaxial Speakers

## WARRANTY

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The Massive Audio FC6X speakers are covered by a Manufacturer Warranty. For specific details regarding warranty duration and terms, please refer to the warranty card included with your product or contact Massive Audio customer support directly.

## CUSTOMER SUPPORT

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If you have any questions, require technical assistance, or need to report a problem that cannot be resolved using the troubleshooting guide, please contact Massive Audio customer support. Refer to the product packaging or the official Massive Audio website for contact information.