

ORION XTX854

ORION XTR XTX854 8-Inch Mid-Range Bullet Loudspeaker User Manual

INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your ORION XTR XTX854 8-inch Mid-Range Bullet Loudspeaker. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and longevity of your product. Retain this manual for future reference.

PRODUCT OVERVIEW

The ORION XTR XTX854 is an 8-inch high-efficiency mid-range bullet loudspeaker designed for professional car audio systems. It features a robust construction and advanced components to deliver clear and powerful sound reproduction.

Key Features:

- **High Efficiency:** Designed for balanced sound and a wide frequency range, providing superior sound quality and exceptional performance.
- **Superior Power Handling:** 1600W Max Power and 400W RMS for powerful and dynamic sound without distortion.
- **Advanced Structure:** Features a 2-inch high-temperature voice coil, 98.5 dB efficiency, and an 88 Oz magnet structure.
- **Mid-Range with Bullet:** The integrated bullet allows the speaker to reproduce high-range frequencies effectively while maintaining strong low to mid-range performance.
- **Proprietary Aluminum Cast Basket:** Crafted for optimal performance and aesthetics, preventing unwanted vibrations and distortion.
- **Convenient Push-to-Connect Terminals:** Ensures secure and easy installation.
- **Protective Rubber Magnet Cover:** Safeguards the magnet from damage and adds a sleek finish.



Image: ORION XTR XTX854 speaker highlighting its 400W RMS / 1600W Max power rating and 4 Ohm impedance.

WHAT'S IN THE BOX

Your ORION XTR XTX854 package should contain the following items:

- ORION XTR XTX854 8-inch Mid-Range Bullet Loudspeaker (Pair)

SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your loudspeakers. If you are unsure about any steps, consult a professional car audio installer.

Safety Precautions:

- Disconnect the vehicle's battery before starting any electrical work.
- Wear appropriate safety gear, including eye protection.
- Ensure all wiring is correctly routed and secured to prevent shorts or damage.
- Verify speaker impedance matches your amplifier's output capabilities.

Mounting the Speakers:

1. **Choose a Location:** Select a suitable mounting location in your vehicle that can accommodate the speaker's dimensions.
2. **Measure and Cut:** Use the provided mounting template (if available) or the speaker's dimensions to mark and carefully cut the mounting hole. The mounting diameter is 7.24 inches and mounting depth is 3.58 inches.
3. **Secure the Speaker:** Place the speaker into the opening and secure it using appropriate screws. Ensure a tight fit to prevent vibrations.



Image: Diagram showing the overall diameter (8.46 inches), mounting diameter (7.24 inches), overall depth (3.96 inches), and mounting depth (3.58 inches) of the ORION XTX854 speaker.

Wiring Connections:

1. **Identify Terminals:** The speaker features convenient push-to-connect terminals with clear polarity markings (+ and -).
2. **Connect Wiring:** Connect the positive (+) speaker wire from your amplifier to the positive (+) terminal on the speaker. Connect the negative (-) speaker wire from your amplifier to the negative (-) terminal on the speaker.
3. **Secure Connections:** Ensure all connections are firm and free from loose strands that could cause short circuits.



Image: Rear view of the ORION XTR XTX854 speaker, illustrating the push-to-connect terminals for easy and secure wiring.

Video Guide:

For a visual demonstration of the ORION XTX854 speaker's features and sound capabilities, please watch the official product video below.

Video: Official product demonstration of the ORION XTX854 speaker, showcasing its sound quality and key features. This video is provided by the seller, ORION CAR AUDIO.

OPERATING INSTRUCTIONS

Once installed, ensure your amplifier settings are appropriate for the speaker's specifications (4 Ohm impedance, 400W RMS). Start with low volume levels and gradually increase to your desired listening level. Avoid prolonged listening at maximum volume to prevent damage to the speakers and your hearing.

MAINTENANCE

To ensure the longevity and optimal performance of your ORION XTR XTX854 loudspeakers, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cones and surrounds. Avoid using harsh chemicals or abrasive materials.
- **Inspection:** Periodically check all wiring connections to ensure they are secure. Inspect the speaker cone and surround for any signs of damage or wear.
- **Environment:** Protect the speakers from extreme temperatures, direct sunlight, and moisture. The speaker is not waterproof.



Image: Front angled view of the ORION XTR XTX854 8-inch Mid-Range Bullet Loudspeaker.

TROUBLESHOOTING

If you encounter issues with your ORION XTR XTX854 speakers, refer to the following common problems and solutions:

No Sound:

- Check all wiring connections from the amplifier to the speakers for proper polarity and secure contact.
- Verify the amplifier is powered on and functioning correctly.
- Ensure the audio source is active and sending a signal.

Distorted Sound:

- Reduce the volume level on your amplifier or head unit.
- Check for loose wiring connections or damaged speaker wires.

- Ensure the amplifier's gain settings are not set too high.
- Inspect the speaker cone and surround for any physical damage.

Weak or Uneven Sound:

- Verify that both speakers are connected with correct polarity. Incorrect polarity can cause phase cancellation and weak bass.
- Check the balance and fader settings on your head unit.

SPECIFICATIONS

Feature	Specification
Brand	ORION
Model Number	XTX854
Speaker Type	Midrange
Speaker Size	8 Inches
Maximum Output Power	1600 Watts
RMS Power	400 Watts
Impedance	4 Ohms
Voice Coil Diameter	2 Inches (CCAW)
Magnet Structure	88 Oz
Sensitivity	98.5 dB
Frequency Response	130 Hz - 12 KHz
Mounting Diameter	7.24 Inches
Mounting Depth	3.58 Inches
Overall Diameter	8.46 Inches
Overall Depth	3.96 Inches
Enclosure Material	Non Pressed Paper
Connectivity Technology	Wired
Number of Items	2 (Pair)
Item Weight	18 Pounds
Is Waterproof	FALSE

WARRANTY AND SUPPORT

Warranty Information:

This product comes with a **1-year manufacturer warranty**. The warranty is void if the voice coil is burned. Please retain your proof of purchase for warranty claims.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact ORION customer support through their official website or the retailer where the product was purchased. Provide your product model number (XTX854) and proof of purchase when contacting support.

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