

ORION XTX654

ORION XTR XTX654 6.5" Mid-Range Bullet Loudspeaker Instruction Manual

Model: XTX654

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ORION XTR XTX654 6.5" Mid-Range Bullet Loudspeakers. Please read this manual thoroughly before attempting to install or operate the speakers to ensure proper function and safety. Keep this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Disconnect the vehicle's battery before beginning any electrical work.
- Ensure all wiring is correctly connected and insulated to prevent short circuits.
- Do not expose speakers to excessive moisture or extreme temperatures.
- Avoid mounting speakers in locations that obstruct vehicle safety features or driver visibility.
- Use appropriate tools and protective gear during installation.
- Consult a professional installer if you are unsure about any part of the installation process.

3. PRODUCT FEATURES

The ORION XTR XTX654 Mid-Range Bullet Loudspeakers are engineered for high-efficiency car audio performance. Key features include:

- **High Power Handling:** 1400W Max Power and 350W RMS for robust sound output.
- **Optimal Impedance:** 4 Ohm configuration for versatile amplifier compatibility.
- **Advanced Voice Coil:** 1.5" CCAW (Copper Clad Aluminum Wire) voice coil for enhanced efficiency and thermal management.
- **Proprietary Basket Design:** Cast aluminum basket designed to minimize vibrations and distortion,

ensuring clean sound.

- **Protective Magnet Cover:** Rubber magnet cover safeguards the magnet from damage and adds a sleek finish.
- **Durable Surround & Bullet Phase Plug:** Enhances longevity and improves high-frequency dispersion for a full spectrum of sound.
- **High Sensitivity:** 97 dB sensitivity ensures efficient power conversion into sound.
- **Wide Frequency Response:** 140 Hz - 12 KHz for detailed audio reproduction.
- **Convenient Terminals:** Push-to-connect terminals with clear polarity icons for easy and secure wiring.



Image: ORION XTX654 speaker with key specifications: 350W RMS / 1400W Max Power, 4 Ohms Impedance, 140 Hz ~ 12 KHz Frequency Response, 1.5 Inches Voice Coil Diameter.



Image: Detailed view of the XTX654 speaker's internal components, including the precision-engineered spider, bullet speaker, cast aluminum basket, CCAW voice coil, push terminals, and robust 40 Oz ferrite magnet structure.

4. PACKAGE CONTENTS

Your ORION XTR XTX654 package should contain the following items:

- ORION XTR XTX654 6.5" Mid-Range Bullet Loudspeakers (Pair)

5. INSTALLATION AND SETUP

Proper installation is crucial for optimal performance. Follow these general guidelines:

5.1 Mounting

Ensure the mounting location in your vehicle provides sufficient space and structural integrity. Refer to the dimensions below for precise fitting:

- Overall Diameter: 7.01 inches
- Overall Depth: 3.31 inches
- Mounting Diameter: 5.75 inches
- Mounting Depth: 2.96 inches



Image: XTX654 speaker with annotated measurements for installation: Overall Diameter: 7.01 inches, Mounting Diameter: 5.75 inches, Overall Depth: 3.31 inches, Mounting Depth: 2.96 inches.

5.2 Wiring

The XTX654 speakers feature convenient push-to-connect terminals. To connect:

1. Gently push down on the terminal lever.
2. Insert the speaker wire into the exposed opening.
3. Release the lever to secure the wire.
4. Ensure correct polarity (+ to + and - to -) as indicated on the terminals.



Image: Rear view of the ORION XT654 speaker, clearly showing the push-to-connect terminals with positive and negative indicators for easy wiring.

5.3 Magnet Protection

The speaker is equipped with a protective rubber magnet cover. This cover is designed to shield the magnet from physical damage and enhance the speaker's aesthetic appeal. No special action is required for this component during installation.



Image: Angled rear view of the ORION XTX654 speaker, highlighting the protective rubber magnet cover with the ORION logo, which protects the magnet from external damage.

6. OPERATION

Once properly installed and connected to a compatible amplifier, your ORION XTR XTX654 speakers are ready for use. Adjust the volume and audio settings on your head unit or amplifier to achieve your desired sound. Start with low volume and gradually increase it to prevent damage to the speakers or your hearing.

Your browser does not support the video tag.

Video: Official product video demonstrating the sound and features of the ORION XTX654 speaker, titled "Ultimate Sound: XTX654 Speaker Demo | Hear the Power!".

7. MAINTENANCE

To ensure the longevity and optimal performance of your speakers:

- Regularly clean the speaker cones and surrounds with a soft, dry cloth.
- Avoid using harsh chemicals or abrasive cleaners.
- Inspect wiring connections periodically to ensure they remain secure.
- Do not expose speakers to direct sunlight for extended periods, as this can degrade materials.

8. TROUBLESHOOTING

If you experience issues with your ORION XTR XTX654 speakers, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound from speaker	Loose or incorrect wiring; Amplifier off or faulty; Speaker damaged.	Check all wiring connections and polarity. Ensure amplifier is powered on and functioning. Test with another speaker if possible.
Distorted sound	Volume too high; Amplifier clipping; Incorrect gain settings; Damaged speaker.	Reduce volume. Check amplifier gain settings. Inspect speaker cone for damage.
Weak or inconsistent sound	Poor connection; Incorrect impedance matching; Low power from amplifier.	Verify all connections are secure. Ensure amplifier impedance matches speaker. Check amplifier power output.

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

9. SPECIFICATIONS

Detailed technical specifications for the ORION XTR XTX654 6.5" Mid-Range Bullet Loudspeakers:

Feature	Specification
Model Name	XTX654
Speaker Type	Midrange
Speaker Size	6.5 Inches
Max Power	1400 Watts
RMS Power	350 Watts
Impedance	4 Ohms
Voice Coil	1.5" CCAW
Sensitivity	97 dB
Frequency Response	140 Hz - 12 KHz
Magnet Structure	40 Oz
Overall Diameter	7.01"
Overall Depth	3.31"
Mounting Diameter	5.75"
Mounting Depth	2.96"

Feature	Specification
Item Weight	8.6 pounds (for the pair)
Color	BLACK
Number of Items	2 (Pair)
Recommended Uses	In-Car Audio, Music

10. WARRANTY AND SUPPORT

ORION products are designed for quality and reliability. This product comes with a limited warranty. For specific warranty details, claims, or technical support, please refer to the warranty card included with your purchase or visit the official ORION website. You can also contact ORION customer service directly for assistance.