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HERTZ X-690

HERTZ UNO Series X-690 6x9 Four-Way Coaxial Speakers User Manual

Model: X-690

1. INTRODUCTION

Thank you for choosing HERTZ UNO Series X-690 6x9 Four-Way Coaxial Speakers. These speakers are engineered to deliver high-quality audio performance in your vehicle. This manual provides essential information for proper installation, operation, and maintenance to ensure optimal performance and longevity of your speakers.



Image 1.1: HERTZ UNO Series X-690 6x9 Four-Way Coaxial Speaker. This image shows a single speaker from an angled top-down perspective, highlighting its oval shape and central tweeter assembly.

2. SAFETY GUIDELINES

Please read and understand all safety instructions before installing or operating your speakers. Failure to follow these guidelines may result in injury or damage to the product or vehicle.

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified car audio technician.
- **Disconnect Power:** Always disconnect the vehicle's battery negative terminal before beginning any electrical work to prevent short circuits and electrical shock.
- **Wiring:** Ensure all wiring is correctly connected, insulated, and secured to prevent shorts, interference, and damage. Use appropriate gauge wire for power and speaker connections.
- **Mounting:** Securely mount speakers to prevent them from becoming loose during vehicle operation, which could cause injury or damage.
- **Volume Levels:** Avoid prolonged exposure to excessively high volume levels, which can cause hearing damage.

- **Environmental Conditions:** These speakers are water-repellent, but avoid direct exposure to excessive water or extreme temperatures.

3. PACKAGE CONTENTS

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

- X-690 Speakers (Pair)



Image 3.1: HERTZ UNO Series X-690 Speakers (Pair). This image displays two X-690 speakers, showing their matching design and size, as they would appear when unboxed.

4. PRODUCT OVERVIEW AND FEATURES

The HERTZ UNO Series X-690 speakers are designed for enhanced audio reproduction in your vehicle. Key features include:

- **4-Way Coaxial Design:** Integrates multiple drivers for a full-range sound experience.
- **Water-Repellent Pressed Paper Woofer Cone:** Provides durability and consistent performance.
- **Ferrite Woofer Magnet:** Ensures strong magnetic flux for powerful bass response.
- **PEI Tweeter Dome:** Delivers clear and crisp high-frequency sounds.
- **Ferrite Tweeter Magnet:** Contributes to precise high-frequency reproduction.
- **Double 15 mm Piezoelectric Super-Tweeter:** Enhances high-frequency extension and detail.



Image 4.1: HERTZ UNO Series X-690 Speaker Detail. This close-up image shows the front of a single speaker, focusing on the integrated tweeter and super-tweeter assembly within the woofer cone.

5. INSTALLATION INSTRUCTIONS

Proper installation is crucial for optimal sound quality and speaker longevity. If you are not experienced with car audio installation, it is highly recommended to seek professional assistance.

5.1. Before You Begin

- **Tools Required:** Gather necessary tools such as screwdrivers, wire strippers, crimpers, drill, and safety glasses.
- **Vehicle Disassembly:** Carefully remove existing speakers and trim panels as required for access to the mounting locations. Refer to your vehicle's service manual for specific instructions.
- **Speaker Placement:** Ensure the new speakers fit correctly in the designated 6x9 inch openings.

5.2. Wiring

The X-690 speakers have positive (+) and negative (-) terminals. Connect the speaker wires from your head unit or amplifier to the corresponding terminals on the speakers. Ensure polarity is correct (positive to positive, negative to negative) to avoid phase issues that can degrade sound quality.

- Connect the positive (+) wire from your audio source to the larger terminal on the speaker.
- Connect the negative (-) wire from your audio source to the smaller terminal on the speaker.
- Secure all connections firmly using crimp connectors or soldering, and insulate them with heat shrink tubing or electrical tape.

5.3. Mounting

Once wired, carefully place the speakers into the mounting locations. Use the provided screws to secure the speakers firmly. Do not overtighten screws, as this can damage the speaker frame.



Image 5.1: HERTZ UNO Series X-690 Speaker Wiring Terminals. This image shows the rear view of the speaker, clearly displaying the positive and negative wiring terminals for connection.

6. OPERATING INSTRUCTIONS

After successful installation, you can begin using your HERTZ UNO Series X-690 speakers.

- **Power On:** Turn on your car's audio system.
- **Initial Volume:** Start with a low volume level and gradually increase it to a comfortable listening level.
- **Audio Settings:** Adjust the bass, treble, and balance settings on your head unit or amplifier to achieve your preferred sound. Avoid excessive bass or treble boost, which can cause distortion or damage.
- **Break-in Period:** Allow a break-in period of several hours of normal listening to allow the speaker components to loosen up and achieve their optimal sound characteristics.

7. CARE AND MAINTENANCE

To ensure the longevity and performance of your HERTZ UNO Series X-690 speakers, follow these maintenance tips:

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker grilles and cones. Avoid using harsh chemicals or abrasive cleaners.
- **Avoid Moisture:** While the speakers are water-repellent, prolonged exposure to excessive moisture should be avoided. If they get wet, allow them to dry completely before use.
- **Temperature Extremes:** Protect the speakers from extreme temperatures, both hot and cold, as these can affect material integrity over time.

- **Secure Mounting:** Periodically check that the speakers are securely mounted and that all connections are tight.

8. TROUBLESHOOTING

If you experience issues with your speakers, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No sound from speakers	<ul style="list-style-type: none"> • Loose or incorrect wiring • No power to head unit/amplifier • Speaker damaged 	<ul style="list-style-type: none"> • Check all wiring connections for proper polarity and tightness. • Verify head unit/amplifier is powered on and functioning. • Test with another known-good speaker if possible.
Distorted or unclear sound	<ul style="list-style-type: none"> • Volume too high • Incorrect audio settings (bass/treble) • Loose mounting • Damaged speaker cone/surround 	<ul style="list-style-type: none"> • Reduce volume level. • Adjust bass/treble settings on head unit/amplifier. • Ensure speakers are securely mounted. • Inspect speaker for visible damage.
Intermittent sound	<ul style="list-style-type: none"> • Loose wiring connection • Faulty audio source or amplifier 	<ul style="list-style-type: none"> • Check and secure all wiring connections. • Test with a different audio source or amplifier if available.

9. TECHNICAL SPECIFICATIONS

Detailed specifications for the HERTZ UNO Series X-690 speakers:

Feature	Specification
Model Name	X-690
Mounting Type	Coaxial
Speaker Type	4-Way Coaxial
Speaker Size	6x9 Inches
Woofers Diameter	15.24 Centimeters (6 Inches)
Tweeter Diameter	40 Millimeters
Woofers Cone Material	Water-Repellent Pressed Paper
Woofers Magnet	Ferrite

Feature	Specification
Tweeter Dome Material	PEI
Tweeter Magnet	Ferrite
Special Feature	Double 15 mm piezoelectric super-tweeter with PEI dome
Speaker Maximum Output Power	170 Watts
Impedance	4 Ohms
Frequency Response	20 KHz (Upper limit, typical for full-range speakers)
Connectivity Technology	Coaxial (Wired)
Audio Output Mode	Stereo
Water Resistance Level	Water Repellent
Item Weight	4.1 Pounds (per speaker)
Product Dimensions	19"D x 9"W x 15"H (Packaging/Overall dimensions, refer to mounting dimensions for actual speaker fit)

10. WARRANTY AND CUSTOMER SUPPORT

HERTZ products are manufactured to the highest quality standards. These speakers come with a **Limited or Full Warranty**, as specified at the time of purchase and according to local regulations. Please retain your proof of purchase for warranty claims.

For technical assistance, warranty service, or general inquiries, please contact your authorized HERTZ dealer or visit the official HERTZ website. You can also visit the [HERTZ Store on Amazon](#) for more product information.