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Hifonics HFXR

Hifonics HFXR Hide Away 2 Or 3-Way Crossover User Manual

Model: HFXR

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Hifonics HFXR Hide Away 2 or 3-Way Crossover. The HFXR is designed to optimize your audio system's sound by precisely routing audio frequencies to the appropriate speakers. It features front, rear, and subwoofer level adjustments, along with a rear channel high-pass frequency range of 32-400Hz.

Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the unit or your audio system.

2. SAFETY INFORMATION

Always disconnect the vehicle's battery before installing or servicing any electrical components. Ensure all wiring is correctly connected to prevent short circuits or damage. This product is intended for use in 12V DC automotive systems. Do not expose the unit to moisture or extreme temperatures. Professional installation is recommended.

Proposition 65 Warning: This product can expose you to chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Hifonics HFXR Hide Away 2 or 3-Way Crossover Unit
- Wire (for connections)
- Remote Level Control



Figure 1: Hifonics HFXR Crossover unit, showing the main unit, remote level control, and included wiring.

4. SETUP AND INSTALLATION

The HFXR crossover is designed for flexible installation in various locations within your vehicle. Choose a location that is dry, well-ventilated, and away from direct heat sources or moving parts. Ensure sufficient space for wiring connections.

4.1 Wiring Connections

Refer to the diagram below for proper wiring. All connections should be secure and insulated to prevent short circuits.

1. **Power (12V+):** Connect to a switched 12V power source (e.g., ignition wire).
2. **Ground (GND):** Connect to a solid chassis ground point.
3. **Remote (REM):** Connect to the remote turn-on output of your head unit or amplifier.
4. **Front Input:** Connect RCA cables from the front output of your head unit.
5. **Rear Input:** Connect RCA cables from the rear output of your head unit.
6. **Mixed Input:** Use if your head unit has only one set of full-range outputs.
7. **Front Output:** Connect RCA cables to the input of your front channel amplifier.
8. **Rear Output:** Connect RCA cables to the input of your rear channel amplifier.
9. **Subwoofer Output:** Connect RCA cables to the input of your subwoofer amplifier.
10. **Remote Level Control:** Connect the provided remote level control to the dedicated port on the crossover unit.



Figure 2: Rear connections of the HFXR Crossover, illustrating the various RCA inputs and outputs, power terminals, and the remote level control port.

5. OPERATING INSTRUCTIONS

The HFXR crossover allows for precise tuning of your audio system. Familiarize yourself with the controls before making adjustments.

5.1 Control Functions



Figure 3: Top view of the HFXR Crossover, highlighting the frequency, level, and mode adjustment knobs.

- **Front Hi-Pass Frequency:** Adjusts the high-pass filter for the front channels. This determines the lowest frequency that will be sent to your front speakers.
- **Rear Hi-Pass Frequency:** Adjusts the high-pass filter for the rear channels (range: 32-400Hz). This determines the lowest frequency that will be sent to your rear speakers.
- **Subwoofer Low-Pass Frequency:** Adjusts the low-pass filter for the subwoofer channel. This determines the highest frequency that will be sent to your subwoofer.
- **Level Controls (Front, Rear, Subwoofer):** Independently adjust the output level for each channel (front, rear,

subwoofer). Start with these at minimum and slowly increase to avoid distortion.

- **Subwoofer Phase (0°/180°):** Adjusts the phase of the subwoofer output. Experiment with both settings to find the one that provides the most impactful bass response in your vehicle.
- **Subwoofer Mode (Mono/Stereo):** Selects between mono or stereo operation for the subwoofer output. Typically, subwoofers are run in mono.
- **Bass Boost:** Provides an adjustable bass boost at a specific frequency. Use sparingly to avoid distortion.
- **Remote Level Control:** Allows convenient adjustment of the subwoofer level from the driver's seat.

5.2 Initial Setup and Tuning

1. Set all level controls on the HFXR to minimum.
2. Set all frequency controls to their approximate desired crossover points based on your speaker specifications.
3. Turn on your head unit and slowly increase the volume to a moderate listening level.
4. Gradually increase the Front, Rear, and Subwoofer level controls on the HFXR until the desired volume balance is achieved without distortion.
5. Fine-tune the frequency controls to blend the sound seamlessly between your speakers and subwoofer.
6. Adjust the Subwoofer Phase and Bass Boost as needed for optimal bass response.

6. MAINTENANCE

The Hifonics HFXR crossover requires minimal maintenance. Keep the unit clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners. Ensure all connections remain secure over time.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No audio output	No power to crossover; Incorrect wiring; RCA cables disconnected or faulty.	Check power, ground, and remote connections. Verify all RCA cables are securely connected. Test RCA cables for continuity.
Distorted audio	Input level too high; Output level too high; Improper gain settings on amplifier.	Reduce input/output levels on the HFXR. Adjust amplifier gain settings.
No bass from subwoofer	Subwoofer level too low; Low-pass frequency set too high/low; Incorrect phase setting.	Increase subwoofer level. Adjust subwoofer low-pass frequency. Try switching subwoofer phase (0°/180°).
Hissing or static noise	Ground loop; Poor quality RCA cables; Improper grounding.	Ensure proper grounding. Use high-quality shielded RCA cables. Consider a ground loop isolator if necessary.

8. SPECIFICATIONS

Feature	Specification
Model Name	HFXR
Input Voltage	8.5 Volts
Material	Metal

Feature	Specification
Color	Silver
Product Dimensions (D x W x H)	2"D x 2"W x 2"H
Item Weight	2.46 pounds
Rear Channel High-Pass Frequency	32-400Hz
Signal-to-Noise Ratio	90 dB
Power Source	DC
Connectivity Technology	Optical (Note: This might refer to internal components or general audio connectivity, the primary connections are RCA)
Audio Output Mode	Surround
Included Components	Wire

9. WARRANTY AND SUPPORT

The Hifonics HFXR Crossover comes with a Full Warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Hifonics website. For technical support or service inquiries, please contact Hifonics customer service directly.

Manufacturer: Hifonics

Brand Store: [Hifonics Amazon Store](#)