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› GRS 3FR-4 Full Range 3" Speaker Driver 4 Ohm User Manual

GRS 3FR-4

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PRODUCT OVERVIEW

The GRS 3FR-4 is a 3-inch full-range speaker driver designed for various audio applications. It features a coated paper cone with a foam surround, providing clear sound reproduction. The driver is built with a pincushion-shape frame and a front gasket for easy mounting, and an economical ferrite magnet assembly ensures reliable performance.

Key Features:

- Coated paper cone with foam surround for clear sound.
- Pincushion-shape frame with front gasket for simplified installation.
- Economical ferrite magnet assembly for efficient operation.
- Quality GRS construction, backed by a 1-year warranty.



Figure 1: Front view of the GRS 3FR-4 speaker driver.

This image displays the front of the GRS 3FR-4 speaker driver, highlighting its 3-inch black coated paper cone and durable foam surround. The design is optimized for clear audio output.



Figure 2: Side view of the GRS 3FR-4 speaker driver.

This image provides a side view of the GRS 3FR-4 speaker driver, illustrating the robust ferrite magnet assembly and the pincushion-shape frame with mounting holes.

SETUP AND INSTALLATION

Proper installation is crucial for optimal performance of your GRS 3FR-4 speaker driver. Follow these steps carefully:

1. **Preparation:** Ensure the mounting surface is clean, flat, and free from obstructions. Verify that the cutout diameter matches the speaker's dimensions (approximately 3 inches).
2. **Mounting:** Position the speaker driver into the cutout. The pincushion-shape frame with its front gasket is designed for easy fitment. Secure the driver using appropriate screws through the pre-drilled holes on the frame. Do not overtighten screws, as this can damage the frame or mounting surface.
3. **Wiring:** Connect the speaker terminals to your amplifier or audio system. The GRS 3FR-4 has an impedance of 4 Ohms. Ensure correct polarity: typically, the wider terminal is positive (+) and the narrower terminal is negative (-). Refer to your amplifier's manual for specific wiring diagrams.
4. **Testing:** After installation, perform a low-volume audio test to confirm proper connection and functionality before increasing volume levels.

Note: If you are unsure about any step, consult a professional audio installer.

OPERATING INSTRUCTIONS

The GRS 3FR-4 speaker driver is designed for straightforward operation once correctly installed. It functions as a full-

range driver, meaning it reproduces a wide spectrum of audio frequencies.

- **Power On/Off:** Control the power to the speaker driver via your connected amplifier or audio source.
- **Volume Control:** Adjust the audio volume using the controls on your amplifier or audio system. Avoid excessively high volumes that cause audible distortion, as this can damage the speaker.
- **Audio Source:** Ensure your audio source (e.g., laptop, personal computer, smartphone) is properly connected to your amplifier.
- **Break-in Period:** Like most new speakers, the GRS 3FR-4 may benefit from a break-in period. Play audio at moderate volumes for several hours to allow the cone and surround materials to loosen and achieve optimal performance.

MAINTENANCE

To ensure the longevity and continued performance of your GRS 3FR-4 speaker driver, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the speaker cone and frame with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the materials.
- **Dust Protection:** If the speaker is installed in an exposed area, consider using a speaker grille to protect it from dust and physical damage.
- **Environmental Conditions:** Avoid exposing the speaker to extreme temperatures, high humidity, or direct sunlight for prolonged periods. While the product is not waterproof, reasonable care in placement will extend its life.
- **Inspection:** Periodically inspect the speaker for any signs of damage to the cone, surround, or wiring. Address any issues promptly.

TROUBLESHOOTING

If you encounter issues with your GRS 3FR-4 speaker driver, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
No sound	Loose or incorrect wiring; amplifier off; audio source issue.	Check all wiring connections for proper polarity and secure fit. Ensure amplifier is powered on and audio source is playing.
Distorted sound	Volume too high; damaged speaker cone/surround; incorrect impedance match.	Reduce volume. Inspect speaker for physical damage. Verify amplifier impedance compatibility.
Weak or inconsistent sound	Partial wiring connection; low power from amplifier.	Re-check wiring. Ensure amplifier is providing sufficient power.

If the problem persists after attempting these solutions, contact customer support.

SPECIFICATIONS

Detailed technical specifications for the GRS 3FR-4 Full Range 3" Speaker Driver:

- **Brand:** GRS
- **Model:** 3FR-4
- **Speaker Type:** Full Range

- **Speaker Size:** 3 Inches
- **Impedance:** 4 Ohms
- **Maximum Output Power:** 25 Watts
- **Product Dimensions:** 3.2"D x 3.7"W x 2"H
- **Item Weight:** 0.7 Pounds (approximately 11.2 ounces)
- **Cone Material:** Coated Paper
- **Surround Material:** Foam
- **Magnet Type:** Ferrite
- **Shape:** Circular (with square frame)
- **Connectivity Technology:** Auxiliary (wired)
- **Compatible Devices:** Laptop, Personal Computer, Smartphone (via amplifier)
- **Date First Available:** May 1, 2014
- **UPC:** 848864015194

WARRANTY AND SUPPORT

The GRS 3FR-4 Full Range 3" Speaker Driver comes with a **1-year limited warranty**, covering manufacturing defects from the date of purchase. This warranty ensures quality GRS construction and reliable performance.

Return Policy: Products can typically be returned for a refund or replacement within 30 days of purchase, subject to the retailer's specific return policy.

For technical assistance, warranty claims, or further inquiries, please contact GRS customer support through their official website or the retailer where the product was purchased. Please have your purchase details and product model number (3FR-4) ready when contacting support.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question