

Recoil RW8D4

Recoil RW8D4 Echo Series 8-inch Car Audio Subwoofer User Manual

Model: RW8D4

1. INTRODUCTION AND OVERVIEW

The Recoil RW8D4 Echo Series 8-inch Car Audio Subwoofer is designed to deliver powerful and clear bass performance for your vehicle's audio system. This subwoofer features a robust construction for durability and optimal sound reproduction.

Key features include:

- 8-inch subwoofer diameter
- Dual 4-ohm voice coils for flexible wiring configurations
- Maximum power handling: 400 Watts
- RMS power handling: 200 Watts
- 2-inch 4-layer high-temperature black aluminum voice coil
- High-strength pressed paper cone with NBR surround
- Advanced airflow cooling structure for heat dissipation
- Custom Recoil basket, magnet cover, and mounting gasket



Image 1.1: Recoil RW8D4 Subwoofer highlighting its main features including 2-inch 4-layer high-temperature black aluminum voice coil, 8-inch subwoofer size, 400 Watts MAX power, 200 Watts RMS power, Dual Voice Coils, and Dual 2 Ohms impedance.

2. SAFETY INFORMATION

Please read all safety instructions before installing and operating this subwoofer. Failure to follow these instructions may result in damage to the product, vehicle, or personal injury.

- **Electrical Safety:** Always disconnect the vehicle's battery negative terminal before making any electrical connections. Ensure all wiring is properly insulated and secured to prevent short circuits.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use caution when adjusting volume levels.
- **Proper Mounting:** Securely mount the subwoofer to prevent it from becoming a projectile in the event of a sudden stop or accident.
- **Ventilation:** Ensure adequate ventilation around the subwoofer and amplifier to prevent overheating.
- **Professional Installation:** If you are unsure about any aspect of the installation, consult a qualified car audio professional.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Recoil RW8D4 Echo Series 8-inch Subwoofer
- User Manual (this document)

Note: Additional mounting hardware or wiring may be required and is typically sold separately.

4. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and longevity of your subwoofer. The RW8D4 is designed for flush mounting.

4.1 Mounting the Subwoofer

The subwoofer features a custom Recoil basket and mounting gasket for a secure, airtight fit. Ensure the mounting surface is rigid and free from obstructions. Refer to the dimensions diagram for precise cutout and depth requirements.



Image 4.1: Dimensional drawing of the Recoil RW8D4 subwoofer, showing overall diameter, mounting depth, and bolt pattern dimensions in both inches and millimeters.

The subwoofer utilizes an advanced airflow cooling structure for heat dissipation. Ensure that the rear of the subwoofer has sufficient clearance for proper airflow, especially when installed in an enclosure.



Advanced Air
Flow Cooling Structure

Dual 4-Layer Black
Coated Aluminum Voice Coil



Image 4.2: Side view of the Recoil RW8D4 subwoofer, indicating the advanced air flow cooling structure and the dual 4-layer black coated aluminum voice coil.

4.2 Wiring the Subwoofer

The RW8D4 features dual 4-ohm voice coils, offering flexibility in wiring configurations (series or parallel) to achieve the desired impedance for your amplifier. Consult your amplifier's manual for compatible impedance loads.

- **Parallel Wiring (2 Ohms):** Connect the positive terminals of both voice coils together, and the negative terminals of both voice coils together. Then connect the combined positive to the amplifier's positive output and the combined negative to the amplifier's negative output.
- **Series Wiring (8 Ohms):** Connect the positive terminal of one voice coil to the negative terminal of the other voice coil. Then connect the remaining positive terminal to the amplifier's positive output and the remaining negative terminal to the amplifier's negative output.

Ensure all connections are secure and properly insulated. The voice coils are coated with black glue designed to handle extremely high temperatures, contributing to the subwoofer's power handling capabilities.



Image 4.3: Rear view of the Recoil RW8D4 subwoofer, displaying the dual voice coil terminals and key specifications such as peak power (400 Watts) and impedance (Dual 2 Ohm, likely a typo in image, should be Dual 4 Ohm based on product description).

5. OPERATING INSTRUCTIONS

Once installed, connect the subwoofer to a suitable amplifier. The RW8D4 is designed to be controlled by the amplifier's output, which in turn is controlled by the vehicle's head unit or audio source.

- **Initial Power-Up:** Start with the amplifier's gain control at its lowest setting. Gradually increase the volume from your head unit.
- **Gain Adjustment:** Carefully adjust the amplifier's gain to match the output voltage of your head unit. Avoid setting the gain too high, as this can lead to distortion and potential damage to the subwoofer.
- **Crossover Settings:** Utilize the low-pass filter (LPF) on your amplifier or head unit to send only low-frequency signals to the subwoofer. A typical crossover point for an 8-inch subwoofer might be between 80Hz and 120Hz, but this can vary based on your vehicle and personal preference.
- **Phase Control:** Experiment with the phase switch (0° or 180°) on your amplifier to achieve the best blend with your front speakers.

The subwoofer's high-strength pressed paper cone and NBR surround are engineered for sound quality with minimal distortion.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your subwoofer.

- **Cleaning:** Use a soft, dry cloth to wipe down the cone and surround. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check all wiring connections for tightness and corrosion. Inspect the subwoofer cone and surround for any signs of damage or wear.
- **Environment:** Keep the subwoofer free from excessive dust, dirt, and moisture.

7. TROUBLESHOOTING

If you experience issues with your Recoil RW8D4 subwoofer, refer to the following common troubleshooting steps:

7.1 No Sound from Subwoofer

- Check all power and ground connections to the amplifier.
- Verify the remote turn-on wire is connected and receiving power.
- Ensure RCA cables are securely connected between the head unit and amplifier.
- Check the amplifier's fuses and the vehicle's fuses.
- Confirm the amplifier is powered on (indicator light).
- Check subwoofer wiring for proper connection to the amplifier terminals.

7.2 Distorted or Poor Sound Quality

- Reduce the amplifier's gain setting.
- Check for proper crossover settings; ensure the subwoofer is only receiving low frequencies.
- Verify the subwoofer's impedance matches the amplifier's stable operating impedance.
- Inspect the subwoofer cone and surround for any physical damage.
- Ensure the subwoofer is securely mounted and the enclosure is airtight (if applicable).

7.3 Subwoofer Overheating

- Ensure adequate ventilation around the subwoofer and amplifier.
- Check if the amplifier's gain is set too high, causing the subwoofer to be overdriven.
- Verify the subwoofer's impedance is correctly matched to the amplifier.
- Reduce listening volume.

8. SPECIFICATIONS

Feature	Specification
Brand	Recoil

Speaker Type	Subwoofer
Subwoofer Diameter	8 Inches
Max Speaker Output Power	400 Watts
RMS Power	200 Watts
Voice Coil	Dual 4 Ohm, 2-inch 4-layer Black Aluminum High Temperature
Cone Material	High-strength Pressed Paper
Surround Material	NBR
Mounting Type	Flush Mount
Control Method	Voice (via amplifier)
Power Source	Corded Electric (via amplifier)

9. WARRANTY INFORMATION

Recoil products are manufactured to high-quality standards. This product is covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please refer to the warranty card included with your product or visit the official Recoil website.

10. SUPPORT INFORMATION

If you have any questions, require technical assistance, or need to report an issue with your Recoil RW8D4 subwoofer, please contact Recoil customer support.

Please have your product model number (RW8D4) and proof of purchase ready when contacting support.

For the most up-to-date contact information, please visit the official Recoil website.