RECOIL MS10-4

RECOIL MS10-4 10-Inch Midrange Pro Audio Car Speaker

Instruction Manual

Introduction

The RECOIL MS10-4 is a high-efficiency 10-inch midrange speaker designed for car audio systems. It combines elements from professional and car audio to deliver high output levels, making it suitable for upgrading stock speaker locations. This manual provides essential information for the proper installation, operation, and maintenance of your speaker.
This speaker is engineered to handle the most significant part of the audible sound spectrum, ensuring clear and powerful midrange reproduction in your vehicle's audio system.

Safety Information

- Always disconnect the vehicle's battery before beginning any electrical installation to prevent electrical shock or damage.
- Ensure all wiring is properly insulated and secured to prevent short circuits and potential fire hazards.
- Mount the speaker securely to prevent it from becoming a projectile in the event of a sudden stop or accident.
- Avoid exposing the speaker to excessive moisture or extreme temperatures.
- Do not operate the speaker at distortion levels, as this can cause permanent damage to the speaker and your hearing.
- If you are unsure about any installation steps, consult a professional car audio installer.

Package Contents

Verify that all items are present in the package:

- One (1) RECOIL MS10-4 10-Inch Midrange Speaker
- One (1) Instruction Manual
- Eight (8) Mounting Screws

Setup and Installation

Proper installation is crucial for optimal performance and longevity of your RECOIL MS10-4 speaker. Follow these general guidelines:

1. **Choose a Mounting Location:** Select a suitable location in your vehicle that can accommodate a 10-inch speaker. Ensure there is sufficient depth and clearance for the speaker and its magnet structure.
2. **Prepare the Mounting Surface:** If replacing an existing speaker, remove the old unit. If creating a new opening, carefully cut a hole of the appropriate diameter, ensuring no wires or structural components are damaged.
3. **Wiring:** Connect the speaker wires from your amplifier or head unit to the speaker terminals. Pay close attention to polarity (+ to + and - to -) to ensure correct phase and optimal sound quality. The MS10-4 has a 4-Ohm impedance.
4. **Secure the Speaker:** Place the speaker into the mounting hole. Use the provided mounting screws to firmly secure the speaker to the mounting surface. Do not overtighten.
5. **Connect to Audio System:** Ensure all connections are secure and properly insulated. Reconnect the vehicle's battery.
6. **Test the System:** Before reassembling interior panels, test the speaker with your audio system to ensure it is functioning correctly.

Dimensions

Figure 1: RECOIL MS10-4 Speaker Dimensions. Ensure adequate space for installation.

Figure 2: Rear view of the RECOIL MS10-4 speaker, highlighting the terminals for wiring connections.

Operating Instructions

Once installed, operating your RECOIL MS10-4 speaker is straightforward:

- **Power On:** Turn on your car's audio system.
- **Volume Control:** Gradually increase the volume to a comfortable listening level. Avoid setting the volume so high that distortion is audible.
- **Audio Settings:** Adjust your head unit's equalizer, balance, and fader settings to achieve your preferred sound profile. The MS10-4 is a midrange speaker, so it will reproduce frequencies typically between 70 Hz and 9,000 Hz.
- **Avoid Overdriving:** Do not continuously play audio at maximum volume or with excessive bass boost if your amplifier is not properly matched, as this can damage the speaker.

Figure 3: Key features of the RECOIL MS10-4 speaker, including power handling and frequency response.

Maintenance

To ensure the longevity and performance of your RECOIL MS10-4 speaker, follow these simple maintenance tips:

- **Cleaning:** Gently wipe the speaker cone and surround with a soft, dry cloth to remove dust. Avoid using harsh chemicals or excessive moisture.
- **Inspection:** Periodically check the speaker for any signs of damage, such as tears in the cone or surround, or loose connections.
- **Environmental Protection:** Keep the speaker away from direct sunlight for extended periods and protect it from extreme temperatures and humidity.

Troubleshooting

If you encounter issues with your RECOIL MS10-4 speaker, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No sound from speaker	Loose or incorrect wiring, amplifier off or faulty, head unit issue.	Check all speaker connections for proper polarity and tightness. Verify amplifier is powered on and functioning. Check head unit output.
Distorted sound	Input signal too high, amplifier gain set too high, speaker overdriven, incorrect impedance match.	Reduce head unit volume. Adjust amplifier gain settings. Ensure speaker is not being overdriven. Verify amplifier is compatible with 4-Ohm speakers.
Low volume output	Incorrect wiring, low amplifier power, fader/balance settings.	Check wiring for proper connection and polarity. Ensure amplifier has sufficient power. Adjust fader and balance settings on your head unit.
Speaker not fitting	Incorrect mounting hole size or insufficient depth.	Verify mounting dimensions against speaker specifications (refer to Figure 1). Adjust mounting hole or consider a different location.

Specifications

Detailed specifications for the RECOIL MS10-4 speaker:

- **Model Number:** MS10-4
- **Speaker Size:** 10 Inches
- **Woofer Diameter:** 10 Inches
- **Peak Power Handling:** 500 Watts
- **RMS Power Handling:** 250 Watts
- **Impedance:** 4 Ohms
- **Voice Coil:** 2-Inch High Temperature Kapton
- **Frequency Response:** 70 Hz - 9,000 Hz
- **Connectivity Technology:** Coaxial
- **Audio Output Mode:** Stereo
- **Mounting Type:** Flush Mount
- **Enclosure Material:** Metal, Plastic
- **Specific Uses:** In-car audio systems
- **Product Dimensions:** 9.25 x 25.7 x 9.91 cm (3.64 x 10.12 x 3.90 inches)
- **Item Weight:** 3.09 kg (6.81 lbs)
- **Country of Origin:** China

Figure 4: Power handling capabilities of the RECOIL MS10-4 speaker.

Warranty Information

The RECOIL MS10-4 speaker comes with a **1-year manufacturer's limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact RECOIL customer support.

Support

For technical assistance, warranty inquiries, or further information regarding your RECOIL MS10-4 speaker, please contact the manufacturer:

Manufacturer: Recoil

Place of Business: 3757 E Broadway Rd Suite 3, Phoenix, Arizona 85040, USA

You may also visit the official RECOIL website for additional resources and support.