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› Recoil REQ7 7-Band Car Audio Equalizer User Manual

RECOIL REQ7

RECOIL REQ7 7-Band Car Audio Equalizer User Manual

Model: REQ7

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RECOIL REQ7 7-Band Car Audio Parametric Graphic Equalizer. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage.

2. KEY FEATURES

- 7-Band High Performance Car Audio 1/2 DIN Pre-Amp Electronic Equalizer.
- Fully Adjustable -12 dB to +12 dB EQ Bands (50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6kHz and 16kHz).
- 2 channels of speaker level inputs & 6 channels of RCA outputs (front, rear, sub).
- Auxiliary stereo RCA input & front panel auxiliary stereo input.
- Separate level controls on front of EQ for convenience (master, sub, front/rear fader, main/auxiliary inputs).
- Exceptional 83 dB signal-to-noise performance.
- Extended frequency response from 20 Hz to 30 kHz.
- High Voltage (Max Output Voltage 7V) Premium Tiffany RCA connectors.
- ISO mounting holes and removable trim ring for custom installation.
- Includes installation brackets and hardware.

3. SAFETY INFORMATION

Always observe the following safety precautions during installation and operation:

- Disconnect the vehicle's negative battery terminal before any electrical work.
- Ensure all wiring is correctly routed and secured to prevent damage or short circuits.
- Do not operate the unit in wet conditions or expose it to excessive moisture.
- Consult a professional car audio installer if you are unsure about any installation steps.

- Avoid adjusting audio settings while driving to maintain focus on the road.

4. PACKAGE CONTENTS

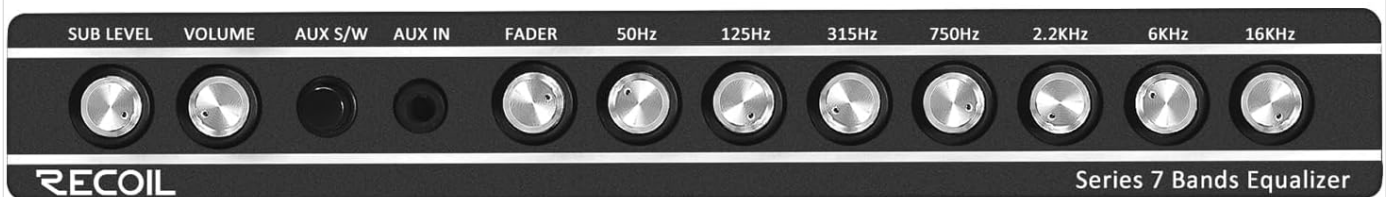
Verify that all items are present in the package:

- RECOIL REQ7 Equalizer Unit
- Installation Brackets
- Mounting Hardware (screws, etc.)
- Power/Ground Wiring Harness
- User Manual (this document)

5. PRODUCT OVERVIEW

5.1 Front Panel Controls

- Adjustable EQ Bands (50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6kHz and 16kHz)
- Separate Level Controls on Front Panel for Convenience
- Front Panel Auxiliary Stereo Input



- High Voltage Output (Max 7V)
- Premium Tiffany RCA connectors
- Auxiliary Stereo RCA Input



Image: Front panel of the RECOIL REQ7 equalizer, showing the seven EQ band controls, master volume, subwoofer level, fader, and auxiliary input.

- **SUB LEVEL:** Adjusts the output level of the subwoofer channel.
- **VOLUME:** Master volume control for all channels.
- **AUX S/W:** Switch to select between Main and Auxiliary input.
- **AUX IN:** 3.5mm stereo jack for auxiliary audio input.
- **FADER:** Balances the audio output between front and rear channels.
- **EQ Bands (50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6kHz, 16kHz):** Seven individual rotary controls to adjust the gain (-12dB to +12dB) for specific frequency ranges.

5.2 Rear Panel Connections

7-Band High Performance Car Audio 1/2 DIN Pre-Amp Electronic Equalizer

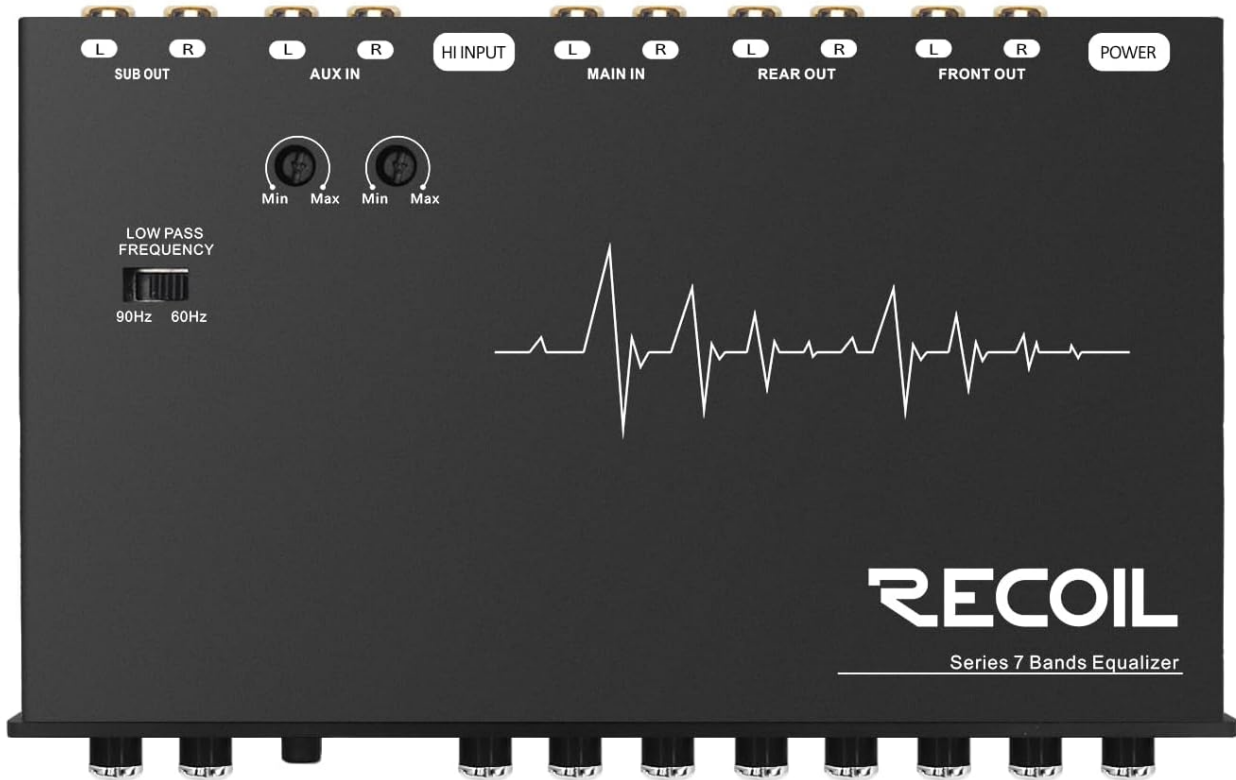


Image: Rear panel of the RECOIL REQ7 equalizer, displaying RCA inputs (Main In, Aux In, Hi Input), RCA outputs (Front Out, Rear Out, Sub Out), and power connection.

- **SUB OUT (L/R):** RCA outputs for connecting to a subwoofer amplifier.
- **AUX IN (L/R):** RCA inputs for auxiliary audio sources.
- **HI INPUT (L/R):** Speaker level inputs for connecting to a factory head unit without RCA outputs.
- **MAIN IN (L/R):** RCA inputs for the primary audio source (e.g., head unit).
- **REAR OUT (L/R):** RCA outputs for connecting to a rear channel amplifier.
- **FRONT OUT (L/R):** RCA outputs for connecting to a front channel amplifier.
- **POWER:** Connection terminal for power, ground, and remote turn-on wires.
- **LOW PASS FREQUENCY Switch (90Hz/60Hz):** Selects the low-pass crossover frequency for the subwoofer output.

6. INSTALLATION

Proper installation is crucial for optimal performance. If you are not comfortable with car audio wiring, seek professional assistance.

6.1 Mounting

1. Choose a suitable mounting location that is dry, well-ventilated, and accessible for adjustments. The REQ7 is a 1/2 DIN size, allowing for flexible placement.
2. Use the provided mounting brackets and hardware to secure the equalizer. Ensure the unit is firmly attached to

prevent vibration.

3. The removable trim ring can be used for custom installations to achieve a flush look.

6.2 Wiring Connections

Refer to the diagram below for typical wiring connections.



Image: Top-down view of the RECOIL REQ7 equalizer, illustrating the various input and output connections for a car audio system.

- **Power (RED wire):** Connect to a fused +12V constant power source from the vehicle's battery.
- **Ground (BLACK wire):** Connect to a clean, solid chassis ground point in the vehicle. Ensure good metal-to-metal contact.
- **Remote (BLUE wire):** Connect to the remote turn-on output of your head unit or other switched +12V source. This turns the equalizer on/off with your audio system.
- **Audio Inputs:**
 - **RCA Inputs (MAIN IN / AUX IN):** Connect RCA cables from your head unit's pre-amp outputs to the MAIN IN. Use AUX IN for additional RCA sources.

- **High Level Inputs (HI INPUT):** If your head unit does not have RCA outputs, connect the speaker wires directly to the HI INPUT terminals.
- **Audio Outputs (FRONT OUT / REAR OUT / SUB OUT):** Connect RCA cables from these outputs to the corresponding inputs on your external amplifiers.

7. OPERATING INSTRUCTIONS

7.1 Initial Power-Up

1. After completing all wiring, reconnect the vehicle's negative battery terminal.
2. Turn on your head unit. The REQ7 should power on automatically via the remote wire.
3. Start with all EQ bands at their center (flat) position, master volume low, and subwoofer level low.

7.2 Adjusting Audio Settings

- **Source Selection:** Use the **AUX S/W** switch to toggle between the MAIN IN (RCA from head unit) and AUX IN (front panel 3.5mm or rear RCA auxiliary inputs).
- **Master Volume:** Slowly increase the **VOLUME** knob to a comfortable listening level.
- **Subwoofer Level:** Adjust the **SUB LEVEL** knob to blend the subwoofer output with the main speakers.
- **FADER Control:** Use the **FADER** knob to balance the sound between the front and rear speakers.
- **Equalization:** Adjust the individual **EQ Band** controls (50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6kHz, 16kHz) to fine-tune the audio frequency response to your preference. Increase (+) to boost a frequency, decrease (-) to cut it.
- **Low Pass Filter:** Use the **LOW PASS FREQUENCY** switch on the rear panel to select the desired crossover point (60Hz or 90Hz) for the subwoofer output. This ensures only low frequencies are sent to the subwoofer.

8. MAINTENANCE

- Keep the unit clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not use harsh chemicals or abrasive cleaners.
- Ensure all connections remain secure over time. Periodically check wiring for any signs of wear or corrosion.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Blown fuse, incorrect wiring, no remote signal.	Check the fuse on the power wire. Verify power, ground, and remote connections.
No sound	Incorrect input/output connections, volume too low, wrong source selected.	Ensure RCA cables are connected correctly. Increase volume. Check AUX S/W switch.
Distorted sound	Input signal too high, EQ bands over-boosted, poor ground connection.	Reduce head unit volume. Adjust EQ bands to a more neutral setting. Check ground wire.
Hissing or noise	Ground loop, poor quality RCA cables, improper gain staging.	Ensure a clean ground connection. Use shielded RCA cables. Adjust gain levels on all components.

10. SPECIFICATIONS

Feature	Detail
Model Number	REQ7
EQ Bands	7 (50Hz, 125Hz, 315Hz, 750Hz, 2.2KHz, 6kHz, 16kHz)
EQ Boost/Cut	-12 dB to +12 dB
Signal-to-Noise Ratio	83 dB
Frequency Response	20 Hz to 30 kHz
Max Output Voltage	7V
Inputs	2-channel Speaker Level, RCA Main In, RCA Aux In, Front Panel 3.5mm Aux In
Outputs	6-channel RCA (Front, Rear, Sub)
Low Pass Filter	Selectable 60Hz or 90Hz
Dimensions (Approx.)	21.41 x 15.29 x 6.5 cm
Weight (Approx.)	780 g

11. WARRANTY AND SUPPORT

RECOIL products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the warranty card included with your product or visit the official RECOIL website. Keep your purchase receipt as proof of purchase.

For further assistance, you may contact RECOIL customer support through their official channels.