

RECOIL RLS8

RECOIL RLS8 8" Ultra-Thin Powered Under Seat Car Subwoofer

Instruction Manual

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INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RECOIL RLS8 8" Ultra-Thin Powered Under Seat Car Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the unit or your vehicle.

SAFETY INFORMATION

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Ensure all wiring is properly routed and secured to prevent pinching, cutting, or short-circuiting.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Avoid installing the subwoofer in locations where it may be exposed to moisture or excessive heat.
- If you are unsure about any part of the installation process, seek assistance from a qualified professional car audio installer.
- Do not operate the subwoofer at excessively high volumes for prolonged periods, as this may cause hearing damage.

PRODUCT OVERVIEW AND FEATURES

The RECOIL RLS8 is an 8-inch ultra-thin powered subwoofer designed to deliver enhanced bass performance in vehicles with limited space. It features a built-in Class D amplifier and includes a wired remote control for convenient bass level adjustments.

Key Features:

- **Compact Design:** Ultra-thin 2.3-inch profile for discreet installation under seats.
- **Integrated Amplifier:** Built-in 150W RMS Class-D amplifier eliminates the need for an external amplifier.
- **Flexible Inputs:** Supports both RCA and speaker-level inputs for compatibility with various head units.
- **Remote Bass Control:** Wired remote knob allows for on-the-fly bass level adjustments.
- **Adjustable Audio Controls:** Features variable low-pass filter (50-150Hz), bass boost (+18dB), and phase switch (0/180 degrees).
- **Auto Turn-On:** Automatically activates and deactivates with the audio signal.
- **Protection Circuitry:** Equipped with thermal, overload, and short-circuit protection for reliable operation.

Low-Impedance Design

The ultra-low 0.4 Ohm impedance design maximizes power transfer and efficiency. Paired with a high-current Class D amplifier, it delivers deeper bass and cleaner sound with less distortion.



Size
8"

RMS
300
Watts

Impedance
0.4 Ω

Height
2.3"

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Image: The RECOIL RLS8 8-inch powered subwoofer, showcasing its compact design and integrated components.

Power Beneath Your Seat

Experience rich, immersive bass from a compact design built to fit seamlessly in any vehicle. Clean sound, strong impact, no wasted space.



Image: The RECOIL RLS8 subwoofer discreetly installed under a car seat, demonstrating its space-saving design.

Precision Bass. Zero Compromise.

A low-profile RECOIL subwoofer designed for tight, distortion-free performance. Advanced engineering packs big sound into a sleek, space-saving form.



Image: The RECOIL RLS8 subwoofer positioned in a car trunk, highlighting its versatility for various vehicle types.

INSTALLATION GUIDE

Proper installation is crucial for optimal performance and safety. Follow these steps carefully.

What's Included:

Accessory Pack

Includes everything needed for installation, high level input harness, remote knob and mounting brackets.



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Image: Contents of the RECOIL RLS8 accessory pack, including mounting brackets, Velcro strips, high-level input wiring harness, and remote knob.

Step-by-Step Installation:

- 1. Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
- 2. Choose Mounting Location:** Select a secure, dry location, typically under a seat or in the trunk. Ensure adequate ventilation around the unit. Use the included mounting brackets and screws for a firm installation.
- 3. Power Wiring:**
 - **+12V (Power):** Connect a suitable gauge power wire (e.g., 8-gauge) directly from the vehicle's positive battery terminal to the +12V terminal on the subwoofer. Install an in-line fuse (not included, recommended 20A) within 18 inches of the battery.
 - **GND (Ground):** Connect a short (less than 3 feet) and equally thick ground wire from the GND terminal on the subwoofer to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
 - **REM (Remote Turn-On):** Connect a remote turn-on wire from your head unit's remote output (typically blue/white wire) to the REM terminal on the subwoofer. This wire signals the subwoofer to turn on/off with your head unit. If your head unit lacks a remote output, the RLS8 features an auto turn-on function via high-level inputs.

4. Audio Input Connection:

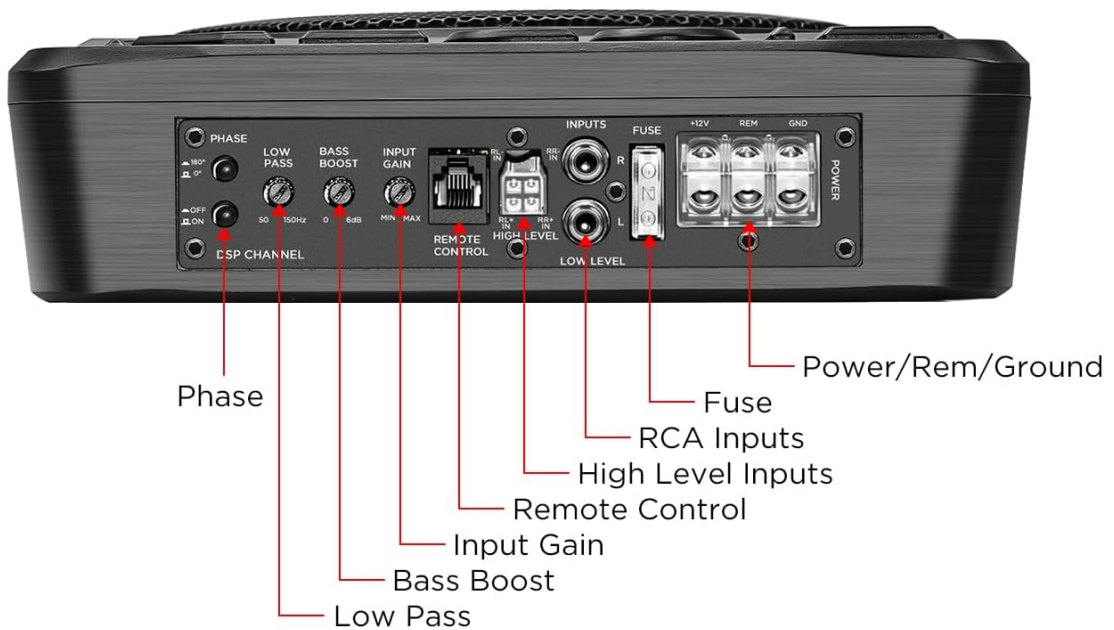
- **RCA Input:** If your head unit has RCA pre-outs, connect RCA cables from the head unit to the RCA INPUTs (L and R) on the subwoofer.
- **High-Level Input:** If your head unit does not have RCA pre-outs, use the included high-level input harness. Connect the speaker wires from your head unit (or factory speaker wires) to the corresponding wires on the high-level input harness. Plug the harness into the HIGH INPUT port on the subwoofer.

5. **Remote Bass Knob:** Connect the wired remote bass knob to the 'REMOTE' port on the subwoofer. Route the cable to a convenient location for the driver.

6. **Reconnect Battery:** Once all connections are secure and verified, reconnect the negative battery terminal.

Wiring Diagram and Controls:

Inputs & Outputs



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Image: Detailed view of the RECOIL RLS8's control panel, showing power/ground terminals, fuse, RCA inputs, high-level inputs, remote control port, and audio adjustment knobs (Phase, Low Pass, Bass Boost, Input Gain).

Installation Video Reference:

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Video: General installation guide for an under-seat subwoofer. While not specific to the RECOIL RLS8, this video provides a visual

reference for the typical steps involved in installing a powered under-seat subwoofer, including wiring and placement considerations.

Your browser does not support the video tag.

Video: Overview of the RECOIL SS65, a similar ultra-thin powered subwoofer. This video demonstrates the compact design and features common to RECOIL's under-seat subwoofer line, offering insight into the product's form factor and basic connections.

OPERATING INSTRUCTIONS

Adjust the subwoofer settings to achieve optimal bass response for your vehicle and listening preferences.

Control Panel Adjustments:

- **Input Gain:** This control matches the output level of your head unit to the subwoofer. Start with the gain at minimum, then slowly increase it until you hear distortion, then back off slightly.
- **Low-Pass Filter (LPF):** This filter allows only frequencies below the set point to pass through to the subwoofer. Adjust between 50Hz and 150Hz. A common starting point is 80-100Hz. Experiment to blend the subwoofer's output seamlessly with your main speakers.
- **Bass Boost:** This control provides an increase in bass output at a specific frequency. Use sparingly to avoid distortion. The RLS8 offers up to +18dB of bass boost.
- **Phase Switch (0°/180°):** This switch helps to correct phase alignment issues between the subwoofer and your main speakers. Listen to music with strong bass and switch between 0° and 180° to determine which setting provides the most impactful and cohesive bass.
- **Remote Bass Knob:** This knob provides convenient control over the subwoofer's output level from the driver's seat. It adjusts the overall bass volume without affecting other settings.

SPECIFICATIONS

Detailed technical specifications for the RECOIL RLS8 subwoofer.

Dimensions



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Image: Diagram illustrating the physical dimensions of the RECOIL RLS8 subwoofer, including length, width, and height.

Feature	Detail
Model Number	RLS8
Speaker Type	Subwoofer
Speaker Size	8 inches
Amplifier Type	Class D Mono
RMS Output Power	150 Watts
Maximum Output Power	300 Watts
Impedance	2 Ohms
Low-Pass Filter	50Hz - 150Hz (Variable)
Bass Boost	+18dB
Phase Switch	0° / 180°

Feature	Detail
Connectivity Technology	RCA, High-Level Input
Mounting Type	Car Mount (Under-seat)
Product Dimensions (L x W x H)	31.8 cm x 24.1 cm x 5.8 cm (12.5" x 9.5" x 2.3")
Item Weight	4.9 kg (10.8 lbs)

TROUBLESHOOTING

If you encounter issues with your RECOIL RLS8 subwoofer, refer to the following common problems and solutions:

- **No Power:**

- Check the in-line fuse on the +12V power wire. Replace if blown.
- Verify all power, ground, and remote turn-on connections are secure and properly connected.
- Ensure the vehicle's battery has sufficient charge.

- **No Sound:**

- Confirm the head unit is on and playing audio.
- Check RCA or high-level input connections for proper seating and continuity.
- Adjust the 'Input Gain' control on the subwoofer.
- Ensure the head unit's subwoofer output (if applicable) is enabled and volume is up.

- **Distorted Sound:**

- Reduce the 'Input Gain' setting.
- Lower the 'Bass Boost' setting.
- Check for loose speaker wires or damaged audio cables.
- Ensure the subwoofer is not overdriven by the head unit.

- **Subwoofer Overheats:**

- Ensure adequate ventilation around the subwoofer. Do not block cooling fins.
- Reduce the 'Input Gain' and 'Bass Boost' settings.
- Verify the impedance of the connected speakers (if applicable) matches the subwoofer's requirements.

MAINTENANCE

To ensure the longevity and optimal performance of your RECOIL RLS8 subwoofer, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe down the exterior of the subwoofer. Avoid using harsh chemicals, solvents, or abrasive cleaners, as these can damage the finish.
- **Ventilation:** Periodically check that the cooling fins and surrounding area are free from dust, debris, or obstructions that could impede airflow. Proper ventilation prevents overheating.
- **Connection Checks:** Annually, or if you notice any performance issues, inspect all wiring connections (power, ground, remote, and audio inputs) to ensure they are secure and free from corrosion.
- **Environmental Protection:** While designed for vehicle use, avoid prolonged exposure to extreme temperatures or direct moisture.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact RECOIL directly. Refer to your purchase documentation or the official RECOIL website for the most current warranty terms and contact details.

Manufacturer Contact Information:

RECOIL

3757 E Broadway Rd Suite 3

Phoenix, Arizona 85040, USA

You can also visit the official RECOIL store on Amazon for additional product information and support resources:

[RECOIL Store](#)