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PRORECK PR-122M

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Instruction Manual

1. INTRODUCTION

Thank you for choosing the PRORECK PR-122M Complete Car Subwoofer System. This system is designed to provide powerful and clear bass for your vehicle's audio setup. It includes a dual 12-inch subwoofer in a loaded enclosure, a mono block amplifier, and a complete wiring installation kit. This manual provides essential information for the safe and correct installation, operation, and maintenance of your new car audio system.

2. SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these guidelines may result in damage to the product, vehicle, or personal injury.

- **Professional Installation Recommended:** If you are unsure about any aspect of installation, consult a qualified car audio technician.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits.
- **Proper Wiring:** Ensure all wiring is correctly routed, secured, and insulated to prevent damage from pinching, abrasion, or heat. Use appropriate gauge wires as specified.
- **Ventilation:** Mount the amplifier in a location that allows for adequate airflow to prevent overheating.
- **Secure Mounting:** Securely mount the subwoofer enclosure and amplifier to prevent them from shifting during vehicle movement, which could cause injury or damage.
- **Volume Levels:** Prolonged exposure to high volume levels can cause hearing damage. Adjust volume responsibly.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- PRORECK PR-1500.1M Mono Block Amplifier (1)
- Dual 12-inch Car Subwoofer in Loaded Enclosure (1)
- Complete Amplifier Installation Wire Kit (1)

The wiring kit includes:

- High Grade Twisted Pair 100% Copper RCA Cables
- Blue Super Flex Power Cable
- Black Ground Wire
- Black Remote Cable and Remote Control
- Black Split Tube
- Speaker Wire
- Gold Plated ANL Heat Resistant Fuse Holder
- 30 Amp ANL Gold Plated Fuse
- Accessories: Wire ties, ring terminals, butt connectors, spades, and grommet



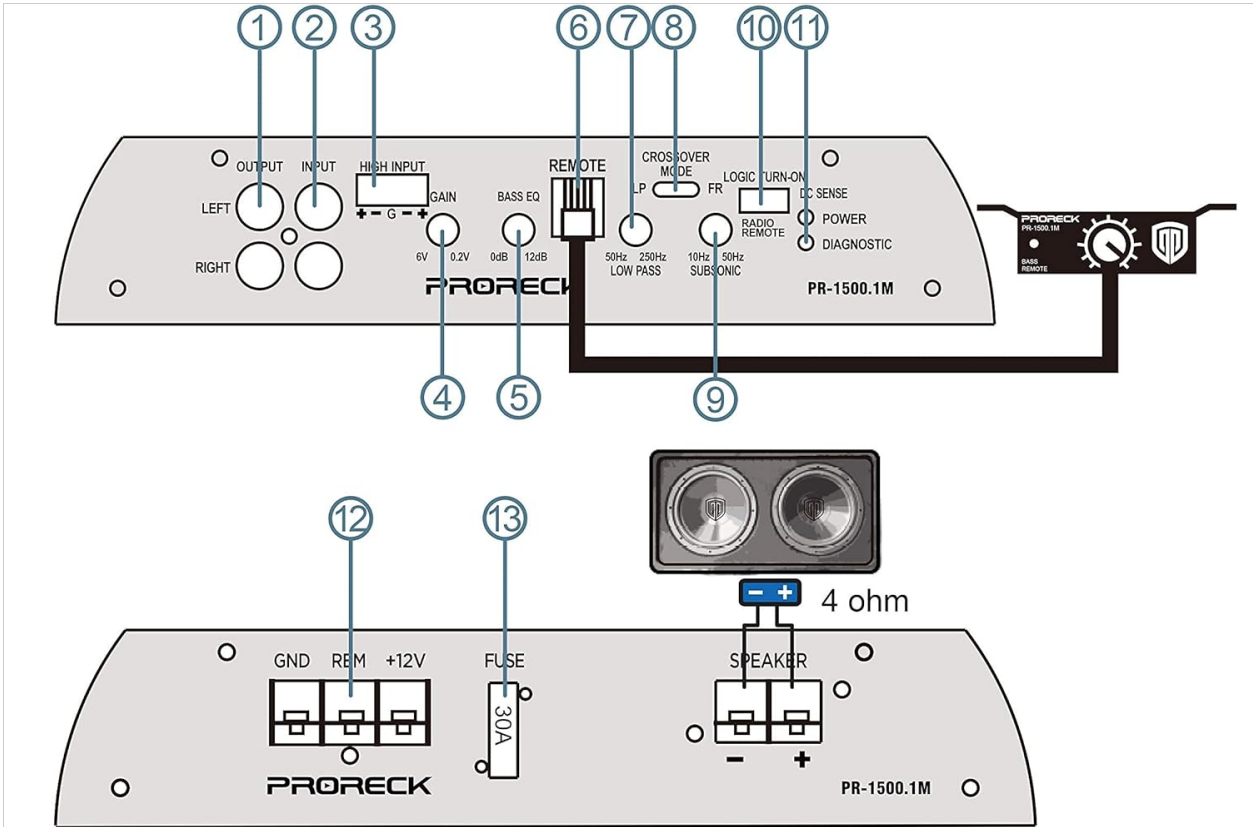
Image: All components included in the PRORECK wiring installation kit.

4. SETUP AND INSTALLATION

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

4.1 Subwoofer Enclosure Placement

Place the dual 12-inch subwoofer enclosure in a secure location within your vehicle, typically the trunk or cargo area. Ensure it is firmly anchored to prevent movement during driving. The enclosure features a 15% angle for optimal vehicle bass alignment.



1.Full-Range RCA Output	2.RCA Line Input
3.High Level Input	4.Input Gain Control
5.12dB Narrow Bass Equalizer	6.Dashboard Bass Remote Control Interface
7.Fully Adjustable Low Pass Crossover	8.On / Full Range Control Switch
9.Fully Adjustable Subsonic Filter	10.Mute & Delay Turn On Circuitry
11.Power & Diagnostic LED Indicators	12.High Speed MosFET Power Supply
13.30A FUSE	

Image: Front view of the PRORECK PR-122M dual 12-inch subwoofer enclosure.



Image: Top view of the PRORECK PR-1500.1M amplifier, showing the control panel.



Image: Side view of the PRORECK PR-1500.1M amplifier, showing the power and speaker terminals.

4.3 Wiring Connections

Refer to the diagram below for detailed connection points on the PRORECK PR-1500.1M amplifier. Use the provided wiring kit for all connections.



Image: Detailed diagram of the PRORECK PR-1500.1M amplifier's input, output, and control connections.

1. Power Connections (GND, REM, +12V):

- **GND (Ground):** Connect the black ground wire from the wiring kit to a clean, unpainted metal surface on the vehicle chassis. Ensure a solid, low-resistance connection.
- **REM (Remote Turn-On):** Connect the black remote cable from the wiring kit to the remote turn-on output of your head unit. This wire turns the amplifier on and off with your car's stereo.
- **+12V (Power):** Connect the blue super flex power cable from the wiring kit to the positive terminal of your car battery. Install the 30 Amp ANL fuse holder and fuse as close to the battery as possible (within 18 inches) for protection.

2. **Speaker Output (4 ohm):** Connect the speaker wire from the subwoofer enclosure to the speaker output terminals on the amplifier. Ensure correct polarity (+ to + and - to -). The subwoofer system is designed for a 4-ohm mono-block connection.

3. **RCA Line Input:** Connect the RCA cables from your head unit's RCA pre-outs to the RCA Line Input on the amplifier.

4. **High Level Input:** If your head unit does not have RCA pre-outs, you can use the High Level Input by

connecting it directly to your head unit's speaker outputs.

5. **Full-Range RCA Output:** This output can be used to daisy-chain the audio signal to another amplifier.
6. **Dashboard Bass Remote Control Interface:** Connect the remote control cable to this port.
7. **FUSE (30A):** The amplifier has a built-in 30A fuse for protection.

5. OPERATING INSTRUCTIONS

Once installed, adjust the amplifier settings for optimal sound performance.

5.1 Amplifier Controls

The PRORECK PR-1500.1M amplifier features several controls to fine-tune your bass output:

- **Input Gain Control:** Adjust this to match the output voltage of your head unit. Start with the gain at minimum and slowly increase it until you achieve clear, undistorted bass. Avoid setting it too high, as this can cause distortion.
- **Bass EQ (5-12dB Narrow Bass Equalizer):** Use this control to boost the bass frequencies. Adjust carefully to avoid over-emphasizing bass, which can lead to distortion.
- **Fully Adjustable Low Pass Crossover (LPF):** This filter allows only frequencies below the set point to pass through to the subwoofer. Adjust the LPF (e.g., 50Hz-250Hz) to blend the subwoofer's output seamlessly with your main speakers.
- **Fully Adjustable Subsonic Filter:** This filter removes extremely low frequencies that are inaudible and can cause the subwoofer to waste power and potentially damage itself. Set it slightly below your LPF setting, typically between 15Hz-50Hz.
- **Mute & Delay Turn On Circuitry:** This feature prevents turn-on thumps or pops.
- **Power & Diagnostic LED Indicators:** These LEDs indicate the amplifier's status. A green light typically indicates power, while a red light may indicate a protection mode or fault.

5.2 Dashboard Bass Remote Control

The included dashboard remote allows you to conveniently adjust the bass level from your driver's seat without needing to access the amplifier directly.

6. MAINTENANCE

To ensure the longevity and performance of your PRORECK subwoofer system, follow these simple maintenance guidelines:

- **Cleaning:** Periodically wipe down the amplifier and subwoofer enclosure with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Check Connections:** Regularly inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure the amplifier's ventilation fins remain clear of obstructions to prevent overheating.
- **Avoid Moisture:** Keep the system dry and away from excessive moisture.

7. TROUBLESHOOTING

If you experience issues with your PRORECK subwoofer system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	<ul style="list-style-type: none"> • Blown fuse (battery or amplifier) • Loose power or ground connection • No remote turn-on signal 	<ul style="list-style-type: none"> • Check and replace fuses. • Verify all power, ground, and remote connections are secure. • Ensure head unit is providing a remote turn-on signal.
No Sound Output	<ul style="list-style-type: none"> • Loose RCA or speaker connections • Amplifier in protection mode • Gain set too low • Head unit settings 	<ul style="list-style-type: none"> • Check all RCA and speaker wire connections. • Check for short circuits in speaker wiring. • Increase gain slowly. • Verify head unit's subwoofer output is enabled and volume is up.
Distorted Sound	<ul style="list-style-type: none"> • Gain set too high • Bass EQ set too high • Improper crossover settings • Damaged speaker wire 	<ul style="list-style-type: none"> • Reduce amplifier gain. • Lower Bass EQ setting. • Adjust LPF and Subsonic filter settings. • Inspect speaker wires for damage.
Amplifier Overheating	<ul style="list-style-type: none"> • Insufficient ventilation • Improper impedance load • Gain set too high 	<ul style="list-style-type: none"> • Ensure adequate airflow around the amplifier. • Verify speaker impedance matches amplifier specifications (4 ohms). • Reduce gain setting.

8. SPECIFICATIONS

Detailed specifications for the PRORECK PR-122M Subwoofer System:

- **Product Type:** Complete Car Subwoofer System
- **Model:** PR-122M
- **Subwoofer Size:** Dual 12-inch
- **Peak Power:** 1500 Watts
- **RMS Power (Amplifier):** 200 Watts RMS Mono-block at 4 Ohms and 1% THD+N
- **Dynamic Power (Amplifier):** 400 Watts @ 2 Ohms
- **Frequency Response:** 15Hz - 20kHz
- **Amplifier Class:** Class A/B Mono-Block

- **Enclosure Material:** High quality aviation grade tweed carpet with embroidery
- **Enclosure Angle:** 15% (for vehicle bass alignment)
- **Voice Coils:** High power 1.5" aluminum 4-layer voice coils
- **Connectivity Technology:** RCA
- **Audio Output Mode:** Mono
- **Amplifier Dimensions (L x W x H):** 11 x 9.1 x 1.9 inches
- **Subwoofer Dimensions (L x W x H):** 28.7 x 14.2 x 15.7 inches

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official PRORECK website. Keep your proof of purchase for any warranty claims.