

DR DOUBLE ROCK DR-1200.1

DR DOUBLE ROCK DR-1200.1 Class D Monoblock Car Audio Amplifier User Manual

Model: DR-1200.1

1. INTRODUCTION

Thank you for purchasing the DR DOUBLE ROCK DR-1200.1 Class D Monoblock Car Audio Amplifier. This amplifier is designed to provide powerful and clear bass output for your car audio system. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage.

The DR-1200.1 is a high-performance Class D amplifier featuring a MOSFET power supply, designed specifically for driving subwoofers. It offers stable power output and multiple protection circuits for reliable operation.

2. SAFETY INFORMATION

WARNING: Improper installation or use of this amplifier can result in serious injury or property damage. Always seek professional installation if you are unsure about any steps.

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly routed and secured to prevent pinching, cutting, or short-circuiting.
- Use appropriate gauge wiring for power, ground, and speaker connections as specified in this manual.
- Do not mount the amplifier in areas exposed to direct sunlight, excessive heat, moisture, or dust. Ensure adequate ventilation.
- Never operate the amplifier with damaged wiring or if it has been exposed to water.
- Avoid listening to loud audio for extended periods, as this can cause hearing damage.

3. PRODUCT FEATURES

- MOSFET Class-D design for mono car audio subwoofer amplification.
- RMS Power Output: 1200W x 1CH at 1 Ohm, 850W x 1CH at 2 Ohm, and 550W x 1CH at 4 Ohm.
- Multi-protection circuit design: Overheating protection, Short-circuit protection, Under-voltage protection.
- 4 Gauge Power & Ground Input Terminals for maximum current flow.
- Adjustable Low Pass Filter (LPF), Subsonic Filter, and Bass Boost.
- Includes a remote bass level control knob.

4. PACKAGE CONTENTS

Verify that all items are present in the package:

- DR-1200.1 Monoblock Amplifier
- Remote Bass Level Control Knob with Cable
- Mounting Hardware (screws)
- User Manual



Image: DR-1200.1 amplifier shown with its included remote bass level control knob and cable.

5. CONTROLS AND CONNECTIONS

5.1. Front Panel Controls

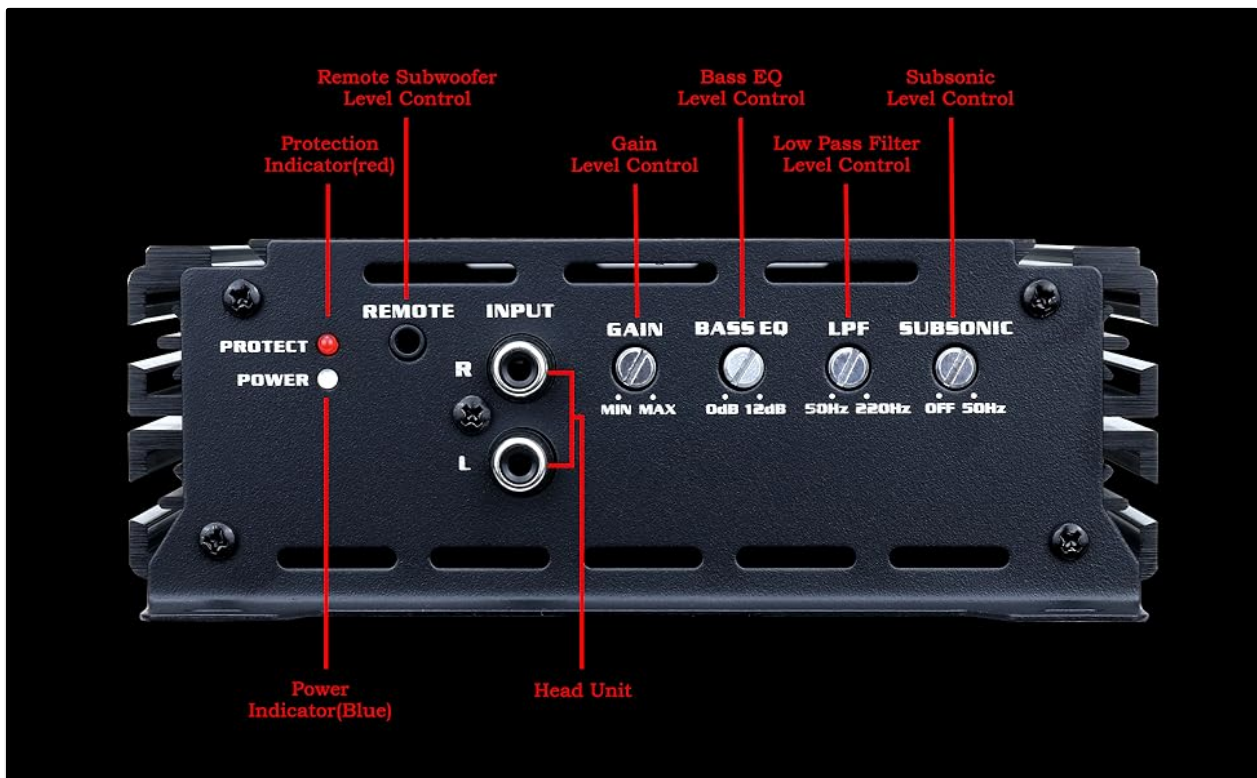


Image: Detailed view of the amplifier's front panel, showing all controls and indicators.

- **REMOTE:** Input for the remote bass level control knob.
- **INPUT (R/L):** RCA audio input from the head unit.
- **GAIN (MIN/MAX):** Adjusts the input sensitivity to match the head unit's output.
- **BASS EQ (0dB/12dB):** Selectable bass boost level.
- **LPF (50Hz-220Hz):** Low Pass Filter adjustment. Sets the upper frequency limit for the subwoofer.
- **SUBSONIC (OFF-50Hz):** Subsonic Filter adjustment. Filters out ultra-low frequencies below the audible range to protect the subwoofer.
- **PROTECT (Red LED):** Illuminates when the amplifier is in protection mode due to overheating, short-circuit, or under-voltage.
- **POWER (Blue LED):** Illuminates when the amplifier is powered on and operating normally.

5.2. Rear Panel Connections

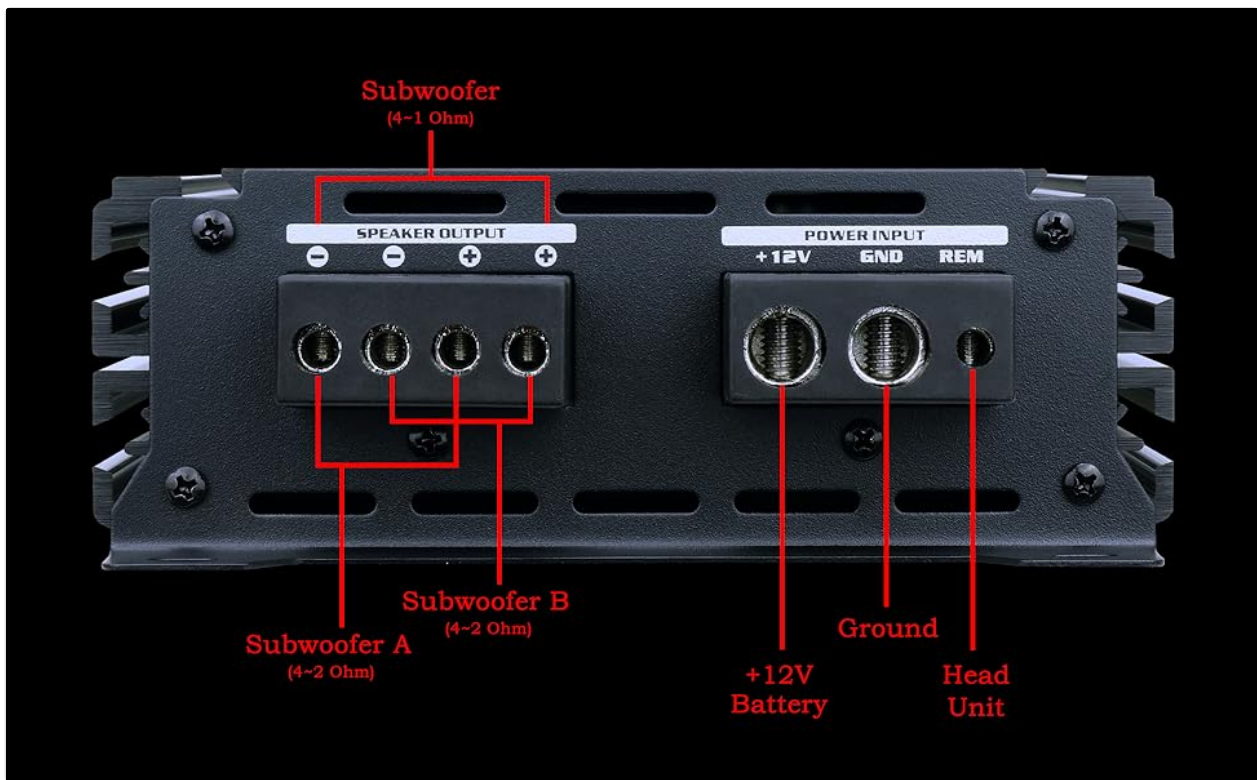


Image: Detailed view of the amplifier's rear panel, showing power and speaker output terminals.

- **SPEAKER OUTPUT (+/-):** Connects to your subwoofer(s). Ensure correct polarity. This amplifier supports 1 Ohm, 2 Ohm, and 4 Ohm loads.
- **POWER INPUT (+12V):** Connects to the vehicle's positive battery terminal. Use a 4-gauge wire and an inline fuse (100A recommended) within 18 inches of the battery.
- **GND (Ground):** Connects to a clean, unpainted metal surface on the vehicle chassis. Use a 4-gauge wire, as short as possible.
- **REM (Remote):** Connects to the remote turn-on lead from your head unit (typically a blue/white wire). This turns the amplifier on and off with the head unit.

6. INSTALLATION

Professional installation is recommended. If you choose to install it yourself, follow these steps carefully:

6.1. Mounting Location

- Choose a dry, well-ventilated location away from heat sources and direct sunlight.
- Ensure the mounting surface is sturdy enough to support the amplifier's weight.
- Allow at least 2 inches of clearance around the amplifier for proper heat dissipation.



Image: Example of the DR-1200.1 amplifier mounted in a vehicle's trunk area.

6.2. Wiring Steps

1. **Power Wire (+12V):** Run a 4-gauge power wire from the vehicle's positive battery terminal to the amplifier's +12V terminal. Install an inline fuse (100A) within 18 inches of the battery.
2. **Ground Wire (GND):** Run a 4-gauge ground wire from the amplifier's GND terminal to a clean, unpainted metal surface on the vehicle chassis. The ground wire should be as short as possible (ideally less than 3 feet).
3. **Remote Turn-On Wire (REM):** Run a remote turn-on wire (typically 18-gauge) from your head unit's remote output (usually blue/white) to the amplifier's REM terminal.
4. **RCA Audio Input:** Connect RCA cables from your head unit's subwoofer output to the amplifier's INPUT (R/L) terminals.
5. **Speaker Output:** Connect your subwoofer(s) to the amplifier's SPEAKER OUTPUT terminals. Ensure correct polarity (+ to + and - to -). Verify the subwoofer's impedance matches the amplifier's capabilities (1-4 Ohms).
6. **Remote Bass Knob:** Connect the remote bass knob cable to the REMOTE port on the amplifier's front panel. Mount the knob in an accessible location.
7. **Final Check:** Double-check all connections for proper polarity, tightness, and insulation. Reconnect the vehicle's negative battery terminal.

7. OPERATING INSTRUCTIONS

Once installed, follow these steps to configure your amplifier:

1. **Turn on Head Unit:** The amplifier should power on automatically (blue POWER LED illuminates).
2. **Set Gain:** Start with the GAIN control at minimum. Play a familiar music track with strong bass. Slowly increase the GAIN until you hear distortion, then back off slightly. This matches the amplifier's input to your head unit's output.
3. **Adjust LPF (Low Pass Filter):** Set the LPF to filter out frequencies above your subwoofer's optimal

range, typically between 50Hz and 100Hz. Experiment to blend the subwoofer output smoothly with your main speakers.

4. **Adjust Subsonic Filter:** If your subwoofer is in a ported enclosure or you want to protect it from extreme low frequencies, set the SUBSONIC filter. A common setting is 20-30Hz, or slightly below your enclosure's tuning frequency. If unsure, start with OFF.
5. **Set Bass EQ:** Use the BASS EQ to add a boost at a specific frequency if desired. Start with 0dB and only use 12dB if necessary and without causing distortion. Excessive bass boost can damage your subwoofer.
6. **Remote Bass Knob:** Use the remote bass knob for convenient real-time adjustment of the subwoofer level from your driving position.

8. MAINTENANCE

- Keep the amplifier clean and free of dust. Use a soft, dry cloth for cleaning.
- Ensure proper ventilation around the amplifier to prevent overheating.
- Regularly check all wiring connections for tightness and signs of corrosion.
- Do not spray cleaning liquids directly onto the amplifier.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power (POWER LED off)	Blown fuse, poor power/ground connection, no remote signal.	Check inline fuse, verify +12V, GND, and REM connections.
PROTECT LED is on	Short circuit in speaker wiring, amplifier overheating, impedance too low, under-voltage.	Check speaker wiring for shorts, ensure proper ventilation, verify subwoofer impedance, check vehicle battery voltage.
No Sound Output	RCA cables disconnected, gain too low, speaker wires disconnected, head unit settings.	Check RCA connections, adjust GAIN, verify speaker connections, check head unit's subwoofer output settings.
Distorted Sound	Gain set too high, LPF incorrect, damaged speaker.	Reduce GAIN, adjust LPF, inspect subwoofer for damage.
Weak Bass	Gain too low, LPF too high, incorrect subwoofer wiring.	Increase GAIN, lower LPF, verify subwoofer wiring polarity.

10. SPECIFICATIONS

Feature	Specification
Model Number	DR-1200.1
Amplifier Type	Class D Monoblock

Feature	Specification
RMS Power (1 Ohm)	1200W x 1CH
RMS Power (2 Ohm)	850W x 1CH
RMS Power (4 Ohm)	550W x 1CH
Input Sensitivity	6V - 0.2V
Low Pass Filter (LPF)	50Hz - 220Hz
Subsonic Filter	OFF - 50Hz
Bass Boost	6dB - 12dB
Frequency Response	20Hz - 250Hz
Fuse Rating	100A
Dimensions (L x W x H)	13.39 x 6.30 x 2.20 inches (approx.)
Item Weight	5.95 pounds
Material	Metal, Electronic Components



Image: DR-1200.1 amplifier with its physical dimensions (length, width, height) indicated.

11. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video from DOUBLE ROCK AUDIO showcasing the DR-1200.1 amplifier and its features.

12. WARRANTY AND SUPPORT

DR DOUBLE ROCK products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official DR DOUBLE ROCK website. Keep your proof of purchase for warranty claims.

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