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DD Audio SS6000

DD Audio SS6000 Monoblock Amplifier Instruction Manual

INTRODUCTION

Thank you for choosing the DD Audio SS6000 Monoblock Amplifier. This amplifier is designed to deliver high-performance audio for your vehicle's sound system. This manual provides essential information for the correct installation, operation, and maintenance of your SS6000 amplifier. Please read this manual thoroughly before attempting installation or operation to ensure optimal performance and safety.

SAFETY INFORMATION

Observe the following safety precautions to prevent injury and damage to the amplifier or vehicle:

- Always disconnect the vehicle's battery negative terminal before starting any electrical work.
- Ensure proper grounding of the amplifier to the vehicle chassis.
- Use appropriate wire gauges for power, ground, and speaker connections as specified in this manual.
- Install the amplifier in a dry, well-ventilated location, away from direct sunlight, heat sources, and moisture.
- Avoid mounting the amplifier in areas where it could interfere with vehicle operation or safety systems.
- Do not attempt to open or modify the amplifier. Refer all servicing to qualified personnel.
- Protect all wiring from sharp edges and moving parts.

PACKAGE CONTENTS

Verify that all items are present in the package:

- DD Audio SS6000 Monoblock Amplifier
- Remote Gain Control Unit
- Mounting Hardware (screws, etc.)
- Instruction Manual (this document)



Image: The remote gain control unit, featuring a voltage display, power indicator, clip indicator, and a rotary knob for gain adjustment.

SETUP AND INSTALLATION

1. Mounting Location

Choose a mounting location that is secure, dry, and provides adequate ventilation for the amplifier. Avoid mounting on carpet or in enclosed spaces without airflow. Ensure the amplifier is accessible for wiring and adjustments.

2. Wiring Connections

Proper wiring is crucial for performance and safety. Refer to the diagram below for connection points.



Image: Top and bottom views of the DD Audio SS6000 amplifier. The top view shows dual 0 AWG power and ground terminals. The bottom view displays RCA inputs, gain and filter controls (SENS, SUB SONIC, LPF), a remote port, and speaker output terminals.

- **Power (BATT+):** Connect a 0 AWG power cable directly from the positive terminal of the vehicle's battery to the +12V terminals on the amplifier. Install an appropriate fuse (600A recommended) within 18 inches of the battery. The SS6000 features dual 0 AWG power terminals for robust current delivery.
- **Ground (GND):** Connect a 0 AWG ground cable from the GND terminals on the amplifier to a clean, unpainted metal surface of the vehicle chassis. The ground point should be as short as possible and securely fastened. The SS6000 features dual 0 AWG ground terminals.
- **Remote (REM):** Connect a 18 AWG or larger wire from the vehicle's head unit remote output to the REM terminal on the amplifier. This wire turns the amplifier on and off with the head unit.
- **RCA Input (INPUT L/R):** Connect RCA cables from your head unit's pre-amp outputs to the RCA INPUTs on the amplifier.
- **Speaker Output (SPEAKER):** Connect your subwoofer speaker wires (4 AWG recommended) to the SPEAKER terminals. Ensure correct polarity (+ to + and - to -). The SS6000 is a monoblock amplifier designed for a single channel output.

- **Remote Gain Control:** Connect the included remote gain control unit to the "REMOTE" port on the amplifier using the provided cable.

OPERATING INSTRUCTIONS

1. Initial Power-Up and Gain Setting

After all connections are made, reconnect the vehicle's battery. Turn on your head unit. The amplifier should power on (PWR indicator will illuminate). Begin with the amplifier's SENS (gain) control set to minimum (fully counter-clockwise) and the head unit volume at a low level.

- Play a familiar audio track.
- Increase the head unit volume to about 75-80% of its maximum.
- Slowly increase the SENS (gain) control on the amplifier until you hear distortion or the CLIP indicator on the remote gain control unit illuminates. Then, back off the gain slightly until the distortion disappears or the CLIP indicator turns off.
- The remote gain control unit allows for convenient adjustment of the amplifier's output level from the driver's seat.

2. Filter Adjustments

The SS6000 features adjustable filters to optimize sound quality for your subwoofer system:

- **SUB SONIC (High Pass Filter):** This filter removes extremely low frequencies that are inaudible or harmful to subwoofers. Adjust between 20Hz and 80Hz. A common setting is around 25-30Hz, depending on your subwoofer's capabilities and enclosure tuning.
- **LPF (Low Pass Filter):** This filter allows only frequencies below the set point to pass to the subwoofer, preventing it from playing higher frequencies meant for full-range speakers. Adjust between 80Hz and 20kHz. Typically, for subwoofers, this is set between 80Hz and 120Hz, depending on the crossover point of your main speakers.

MAINTENANCE

The DD Audio SS6000 amplifier requires minimal maintenance. Keep the amplifier clean and free of dust and debris. Periodically check all wiring connections for tightness and corrosion. Ensure that the amplifier's cooling fins are not obstructed to maintain proper heat dissipation.

TROUBLESHOOTING

If you experience issues with your amplifier, consult the table below for common problems and solutions before contacting support.

Problem	Possible Cause	Solution
Amplifier does not turn on (no PWR light)	No power, no ground, or no remote signal. Blown fuse.	Check battery connections, ground connection, and remote wire. Verify fuse at battery is intact.
No sound output	RCA cables disconnected, speaker wires disconnected, gain too low, head unit muted.	Check RCA and speaker connections. Adjust gain. Ensure head unit is playing audio.

Problem	Possible Cause	Solution
Distorted sound	Gain set too high, improper filter settings, poor quality audio source.	Reduce gain. Adjust SUB SONIC and LPF settings. Use a high-quality audio source.
Amplifier goes into protect mode (PRO light on)	Overheating, short circuit in speaker wiring, impedance too low.	Ensure proper ventilation. Check speaker wiring for shorts. Verify speaker impedance is within amplifier's rated limits (1 Ohm minimum).
Noise (hissing, whining)	Ground loop, poor RCA shielding, power wire too close to signal wires.	Ensure good ground connection. Reroute RCA cables away from power wires. Consider a ground loop isolator if necessary.

SPECIFICATIONS

The following are the technical specifications for the DD Audio SS6000 Monoblock Amplifier:

Feature	Specification
Model	SS6000
Operating Voltage	9 - 16 Volts
Test Voltage	14.4 Volts
Output Channels	1 (Monoblock)
Continuous Wattage @ 4 Ohm	2000 Watts RMS
Continuous Wattage @ 2 Ohm	4000 Watts RMS
Continuous Wattage @ 1 Ohm	6000 Watts RMS
Max Current Draw	600 Amps
RCA Input Voltage Sensitivity	0.4 - 4 Volts
Signal-to-Noise Ratio (S/N)	>95 dB
Damping Factor	>100
Total Harmonic Distortion (THD)	<1.0%
Frequency Response	20 - 20,000 Hz
Sub-Sonic Filter (HPF)	20 - 80 Hz (12dB/Oct)
Low-Pass Filter (LPF)	80 - 20,000 Hz (12dB/Oct)
Power Wire Gauge	0 AWG (Dual Terminals)
Speaker Wire Gauge	4 AWG
Dimensions (L x W x H)	11.25 x 7.3 x 2.4 inches (286 x 185 x 60 mm)
Item Weight	11 pounds

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official DD Audio website. If you encounter issues not covered in the troubleshooting section, or require further assistance, please contact DD Audio customer support or your authorized dealer. Do not attempt to repair the amplifier yourself, as this may void your warranty.

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