

LANZAR MAXP1200

Lanzar Max Pro 1800 Watt Mono Block Amplifier User Manual

Model: MAXP1200

1. INTRODUCTION

Thank you for purchasing the Lanzar Max Pro 1800 Watt Mono Block Amplifier, Model MAXP1200. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier. To ensure optimal performance and safety, please read this manual thoroughly before attempting to install or operate the unit. Keep this manual for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the amplifier and connected components.

- **Electrical Safety:** Ensure all power connections are made correctly and securely. Disconnect the vehicle's battery before making any power connections to avoid electrical shorts. Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- **Ventilation:** Install the amplifier in a location that allows for adequate air circulation. Do not cover the amplifier or install it in an enclosed space where heat cannot dissipate. Overheating can lead to amplifier shutdown or damage.
- **Professional Installation:** If you are unsure about any aspect of the installation, it is recommended to seek assistance from a qualified car audio professional.
- **Moisture Exposure:** Do not expose the amplifier to moisture or water. This can cause electrical shock or damage to the unit.
- **Secure Mounting:** Mount the amplifier securely to prevent it from becoming a projectile in the event of a sudden stop or accident.

3. PRODUCT OVERVIEW

The Lanzar MAXP1200 is a high-performance mono block amplifier designed to deliver powerful and clear bass to your car audio system. Featuring 1800 watts of peak power, this amplifier is optimized for driving subwoofers.



Figure 3.1: Lanza Max Pro 1800 Watt Mono Block Amplifier (Model MAXP1200). This image shows the amplifier's main body with its black ribbed heatsink design and the silver-colored side panel where the input and control terminals are located. The "Lanza" logo is prominently displayed on the top surface.

Key Features:

- Mono Block Design for dedicated subwoofer power.
- High Power Output: Up to 1800 Watts.
- MOSFET Power Supply for efficient operation.
- Variable Low Pass Crossover.
- Variable Bass Boost.
- Thermal, Overload, and Short Protection Circuitry.

Component Identification:

Refer to Figure 3.1 for a visual representation of the amplifier's components.

1. **RCA Inputs:** For connecting the audio signal from your head unit.
2. **Gain Control:** Adjusts the input sensitivity to match the output of your head unit.
3. **Low Pass Filter (LPF) Control:** Sets the upper frequency limit for the amplifier's output.
4. **Bass Boost Control:** Increases the output level at a specific bass frequency.
5. **Power/Protect Indicators:** LEDs that show the amplifier's operational status.

6. **Power Terminals:** Connections for +12V, Ground, and Remote Turn-On.
7. **Speaker Terminals:** Output connections for your subwoofer(s).

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of your amplifier.

4.1 Pre-Installation Checks:

- Ensure the vehicle's electrical system can support the amplifier's power requirements.
- Disconnect the negative terminal of the vehicle's battery before starting any wiring.
- Gather all necessary tools and wiring accessories (power wire, ground wire, remote wire, RCA cables, speaker wire, fuse holder, fuse).

4.2 Mounting the Amplifier:

The amplifier is designed for surface mount installation. Choose a mounting location that is:

- Secure and stable, preventing movement during vehicle operation.
- Well-ventilated, allowing heat to dissipate effectively. Avoid enclosed spaces like under carpets or in tight compartments.
- Away from direct sunlight or heat sources.
- Protected from moisture and excessive dust.

Use appropriate screws to secure the amplifier to the chosen surface. Ensure no existing wiring or fuel lines are damaged during drilling.

4.3 Wiring Connections:

1. **Power (+12V) Connection:** Run a power cable (e.g., 4-gauge or larger) directly from the positive terminal of the vehicle's battery to the amplifier's +12V terminal. Install an in-line fuse holder with an appropriate fuse (refer to specifications for fuse rating) within 18 inches (45 cm) of the battery.
2. **Ground (GND) Connection:** Connect a ground cable of the same gauge as the power cable from the amplifier's GND terminal to a clean, unpainted metal surface of the vehicle's chassis. Ensure a solid electrical connection by scraping away any paint or rust. The ground point should be as short as possible, ideally less than 3 feet (1 meter).
3. **Remote (REM) Connection:** Connect a remote turn-on wire (e.g., 18-gauge) from the amplifier's REM terminal to the remote output of your head unit. This wire turns the amplifier on and off with your head unit.
4. **RCA Input Connection:** Connect RCA cables from the pre-amp outputs of your head unit to the RCA inputs on the amplifier.
5. **Speaker Output Connection:** Connect your subwoofer(s) to the amplifier's speaker terminals. Pay close attention to polarity (+ to + and - to -). For multiple subwoofers, ensure proper wiring for the desired impedance load.

5. OPERATING THE AMPLIFIER

5.1 Initial Power-Up:

Once all connections are made and double-checked, reconnect the vehicle's battery. Turn on your head unit. The amplifier's "Power" indicator light should illuminate, indicating it is receiving power and is operational. If the "Protect" light illuminates, refer to the Troubleshooting section.

5.2 Adjusting Controls:

- **Gain Control:** This is not a volume control. It matches the amplifier's input sensitivity to the output voltage of your head unit. Start with the gain set to minimum. Play a familiar track with a strong bass signal at about 75% of your head unit's maximum volume. Slowly increase the amplifier's gain until you hear distortion, then back off slightly.
- **Low Pass Filter (LPF):** Adjust this control to filter out frequencies above the desired range for your subwoofer. A common starting point is between 80Hz and 120Hz, depending on your subwoofer and other speakers.
- **Bass Boost:** Use this control sparingly. Excessive bass boost can lead to distortion and potential damage to your subwoofer. Start at minimum and increase only if more bass impact is desired, ensuring the sound remains clean.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth to remove dust and dirt. Do not use harsh chemicals or abrasive cleaners. Ensure the cooling fins are free of obstructions.
- **Connection Check:** Occasionally inspect all wiring connections (power, ground, remote, RCA, speaker) to ensure they are secure and free from corrosion. Loose connections can cause performance issues or damage.
- **Ventilation:** Ensure the amplifier's mounting location remains well-ventilated. Clear any objects that might obstruct airflow around the unit.

7. TROUBLESHOOTING

If you experience problems with your amplifier, consult the following table before contacting technical support.

Problem	Possible Cause	Solution
No Power (Power LED Off)	Blown fuse; Loose power/ground/remote connection; Faulty wiring.	Check amplifier fuse and in-line battery fuse. Verify all power, ground, and remote connections are secure and have proper voltage.
Protect LED On	Overheating; Speaker short circuit; Low impedance load; DC offset.	Allow amplifier to cool down. Check speaker wiring for shorts. Verify speaker impedance matches amplifier's minimum rating. Disconnect RCA inputs to check for DC offset.
No Sound Output	No input signal; Gain set too low; Speaker wires disconnected/shorted; Head unit settings.	Check RCA connections from head unit. Increase gain. Inspect speaker wiring. Ensure head unit's subwoofer output is enabled and volume is up.
Distorted Sound	Gain set too high; Improper LPF setting; Poor ground connection; Damaged speaker.	Reduce gain. Adjust LPF. Check ground connection for cleanliness and security. Inspect speaker for damage.

8. SPECIFICATIONS

The following are the general specifications for the Lanzar Max Pro 1800 Watt Mono Block Amplifier (Model MAXP1200):

Feature	Detail
Brand	LANZAR

Feature	Detail
Model Number	MAXP1200
Product Dimensions (L x W x H)	38.1 x 32.2 x 11.1 centimeters (15 x 12.67 x 4.38 inches)
Item Weight	3.98 kg (8.77 lbs)
Mounting Type	Surface Mount
Manufacturer	Xtensive Car Audio
ASIN	B003OUI5VO
UPC	068888899864

Note: Specifications are subject to change without notice for product improvement.

9. WARRANTY AND SUPPORT

Lanzar products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Lanzar website.

For technical assistance, troubleshooting beyond this manual, or service inquiries, please contact Lanzar customer support. Contact information can typically be found on the product packaging or the official Lanzar website. Please have your model number (MAXP1200) and purchase details ready when contacting support.



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