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HERTZ ML-Power-1, ML 2500.3

Hertz Mille Legend Series ML-Power-1 Amplifier and ML 2500.3 Subwoofer Instruction Manual

Brand: HERTZ
Models: ML-Power-1 (Amplifier), ML 2500.3 (Subwoofer)

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Hertz Mille Legend Series ML-Power-1 D-Class Mono Amplifier and ML 2500.3 10-inch Subwoofer. Please read this manual thoroughly before attempting installation or operation to ensure proper use and to prevent damage to the components or your vehicle.

2. Safety Information

- **Professional Installation Recommended:** Due to the complexity of car audio systems and the electrical nature of these components, professional installation by a qualified technician is highly recommended.
- **Electrical Safety:** Always disconnect the vehicle's battery negative terminal before starting any electrical work to prevent short circuits and electrical shock. Ensure all wiring is properly insulated and fused.
- **Hearing Protection:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Adjust volume to a safe level.
- **Ventilation:** Ensure the amplifier is installed in a location with adequate ventilation to prevent overheating. Do not block cooling fins.
- **Secure Mounting:** Securely mount both the amplifier and subwoofer to prevent them from becoming projectiles in the event of a sudden stop or collision.

3. Package Contents

Verify that all items are present in your package:

- Hertz Mille Legend Series ML-Power-1 D-Class Mono Amplifier
- Hertz Mille Legend Series ML 2500.3 10-inch Subwoofer
- Mounting hardware (screws, brackets)
- User Manual (this document)

4. Product Overview

4.1 ML-Power-1 D-Class Mono Amplifier

The ML-Power-1 amplifier is engineered for high-performance bass reproduction, featuring advanced D-Class technology for efficient power delivery and pure sound quality. Its compact design and robust heat sink ensure stable operation even under demanding conditions.



Figure 1: Top view of the Hertz ML-Power-1 D-Class Mono Amplifier.



Figure 2: Input and output connections on the Hertz ML-Power-1 D-Class Mono Amplifier.

4.2 ML 2500.3 10-inch Subwoofer

The ML 2500.3 subwoofer delivers deep, impactful bass with its 10-inch Exponential V-cone design and mineral-injected paper cone, ensuring high stiffness and damping. The anti-resonant aluminum alloy basket with built-in venting holes contributes to its superior performance and durability.



Figure 3: Front view of the Hertz ML 2500.3 10-inch Subwoofer.



Figure 4: Rear view of the Hertz ML 2500.3 10-inch Subwoofer, showing the magnet structure.

5. Setup and Installation

Proper installation is crucial for optimal performance and safety. It is highly recommended to have these components installed by a certified car audio professional.

5.1 Amplifier Installation (ML-Power-1)

- **Mounting Location:** Choose a dry, well-ventilated location away from direct sunlight and heat sources. Ensure sufficient airflow around the amplifier's heat sink.
- **Power Wiring:** Connect a heavy-gauge power cable (e.g., 4 AWG or larger, depending on cable length) directly from the vehicle's positive battery terminal to the amplifier's +12V terminal. Install an appropriate fuse (not supplied) within 18 inches (45 cm) of the battery.
- **Ground Wiring:** Connect a heavy-gauge ground cable of the same size as the power cable from the amplifier's GND terminal to a clean, unpainted metal point on the vehicle's chassis. Ensure a solid, low-resistance connection.
- **Remote Turn-On:** Connect a remote turn-on wire from your head unit's remote output to the amplifier's REM

terminal. This wire signals the amplifier to turn on and off with your head unit.

- **Signal Input:** Connect RCA cables from your head unit's subwoofer pre-out to the amplifier's RCA input jacks. If your head unit does not have RCA outputs, use the speaker-level inputs if available (refer to amplifier specific wiring diagram).
- **Speaker Output:** Connect the subwoofer to the amplifier's speaker output terminals. Ensure correct polarity (+ to + and - to -).

5.2 Subwoofer Installation (ML 2500.3)

- **Enclosure:** The ML 2500.3 subwoofer is optimized for sealed box applications. Construct or acquire a sealed enclosure with the recommended internal volume for optimal performance.
- **Mounting:** Securely mount the subwoofer into the enclosure using appropriate screws, ensuring an airtight seal between the subwoofer frame and the enclosure.
- **Wiring:** Connect the subwoofer's terminals to the amplifier's speaker output terminals, observing correct polarity. The ML 2500.3 has a 4-Ohm SVC (Single Voice Coil).

6. Operating Instructions

6.1 Initial Power-Up and Basic Settings

- **Verify Connections:** Before turning on the system, double-check all power, ground, remote, and speaker connections.
- **Turn On Head Unit:** With the vehicle's ignition on, turn on your head unit. The amplifier should power on (indicated by an LED).
- **Gain Adjustment:** Start with the amplifier's gain control set to minimum. Play a familiar piece of music with strong bass. Slowly increase the gain until you hear distortion, then back off slightly. The goal is to match the amplifier's input sensitivity to the head unit's output voltage, not to use the gain as a volume control.
- **Lo-Pass Filter (LPF):** The ML-Power-1 features an adjustable 24 dB/Oct Lo-Pass filter. Set this filter to allow only low frequencies to pass to the subwoofer. A common starting point is between 80 Hz and 100 Hz, but this can be adjusted to blend seamlessly with your main speakers.
- **Subsonic Filter:** If your amplifier has a subsonic filter, set it slightly below your enclosure's tuning frequency (if ported) or around 25-30 Hz for sealed enclosures to protect the subwoofer from over-excursion.
- **Phase Control:** Experiment with the phase switch (0° or 180°) to find the setting that provides the most impactful and coherent bass response from your listening position.

7. Maintenance

- **Cleaning:** Periodically clean the amplifier's heat sink and the subwoofer cone with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals or liquids.
- **Connection Check:** Annually inspect all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Environmental Factors:** Ensure the amplifier remains in a well-ventilated area and is not exposed to excessive moisture or extreme temperatures.

8. Troubleshooting

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

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No Power / Amplifier LED Off	Blown fuse (battery or amplifier) Loose power or ground connection No remote turn-on signal	Check and replace fuses Verify all power and ground connections are secure Check remote wire connection and head unit output
No Sound from Subwoofer	Loose RCA or speaker wires Gain set too low Crossover settings incorrect Subwoofer damaged	Check all signal and speaker connections Adjust amplifier gain Review LPF settings Test subwoofer with another amplifier if possible
Distorted Sound	Gain set too high Poor quality signal input Damaged subwoofer or amplifier	Reduce amplifier gain Check RCA cables for damage or interference Consult a professional for diagnosis
Amplifier Overheating (Protection Mode)	Insufficient ventilation Improper impedance load Sustained high volume levels	Ensure adequate airflow around amplifier Verify subwoofer impedance matches amplifier's capabilities Reduce volume, allow amplifier to cool

9. Specifications

9.1 ML-Power-1 D-Class Mono Amplifier

Parameter	Value
Power Supply Voltage	11–15 VDC
Idling Current	2 A
Power Consumption @ 1Ω, 14.4 VDC	83.5 A
Distortion - THD (100 Hz @ 4Ω)	0.08%
Bandwidth (-3 dB)	18 – 500 Hz
Speaker-In Sensitivity	0.8 – 20 V RMS
Damping Factor (100 Hz @ 4Ω)	100
Dimensions (Product)	15 x 9 x 19 inches (approximate for bundle)
Weight (Item)	23.3 pounds (approximate for bundle)

9.2 ML 2500.3 10-inch Subwoofer

Parameter	Value
Size	10 inches (250mm)
Peak Power Handling	1400 W

Parameter	Value
Continuous Power Handling (RMS)	700 W
Impedance	4 Ohms (SVC)
Frequency Response	27 – 500 Hz
Sensitivity	88 dB SPL

10. Warranty Information

This Hertz Mille Legend Series product bundle is covered by a**1-Year Manufacturer Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, accident, misuse, abuse, negligence, unauthorized modification, or normal wear and tear. Please retain your proof of purchase for warranty claims.

11. Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact your authorized Hertz dealer or visit the official Hertz website for support resources and contact information.

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