

HERTZ DP-4.300

Hertz DP 4.300 AB-Class 4 Channel Amplifier User Manual

Model: DP-4.300 | Brand: HERTZ

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Hertz DP 4.300 AB-Class 4 Channel Amplifier. Please read this manual thoroughly before attempting to install or operate the amplifier to ensure proper function and to prevent damage.

Safety Information

- Always disconnect the vehicle's battery negative terminal before starting any installation work.
- Ensure all wiring is correctly routed and secured to prevent damage from moving parts or sharp edges.
- Use appropriate gauge wiring for power and ground connections as specified in the installation section.
- Do not expose the amplifier to moisture or extreme temperatures.
- Seek professional assistance if you are unsure about any part of the installation process.

2. PRODUCT OVERVIEW AND FEATURES

The Hertz DP 4.300 is a high-performance AB-Class 4-channel amplifier designed for car audio systems. It offers robust power output in a compact design, ensuring high-fidelity audio reproduction.



Image 2.1: Top view of the Hertz DP 4.300 amplifier, showcasing its sleek design and central Hertz logo with an illuminated status indicator.

Key Features:

- **High-Resolution Audio Certification:** Features a frequency response of 10 Hz – 50 kHz, meeting Hi-Res Audio standards.
- **Compact Size with Maximum Power:** A fully bridgeable 4-channel Class-AB amplifier with 2Ω stable power outputs, designed for space-efficient installation.
- **Attractive Design:** Incorporates an elegant status LED, solid machined terminal blocks, and a removable top panel to protect controls and connections.
- **Universal Compatibility:** Operates with a supply voltage from 9 to 16.5 V and offers speaker-in input sensitivity from 1.6 to 40 Vrms, including an integrated Universal Speaker Simulator.
- **High-Noise Rejection:** Equipped with balanced input circuitry for both Pre-in and Speaker-in connections to minimize interference.

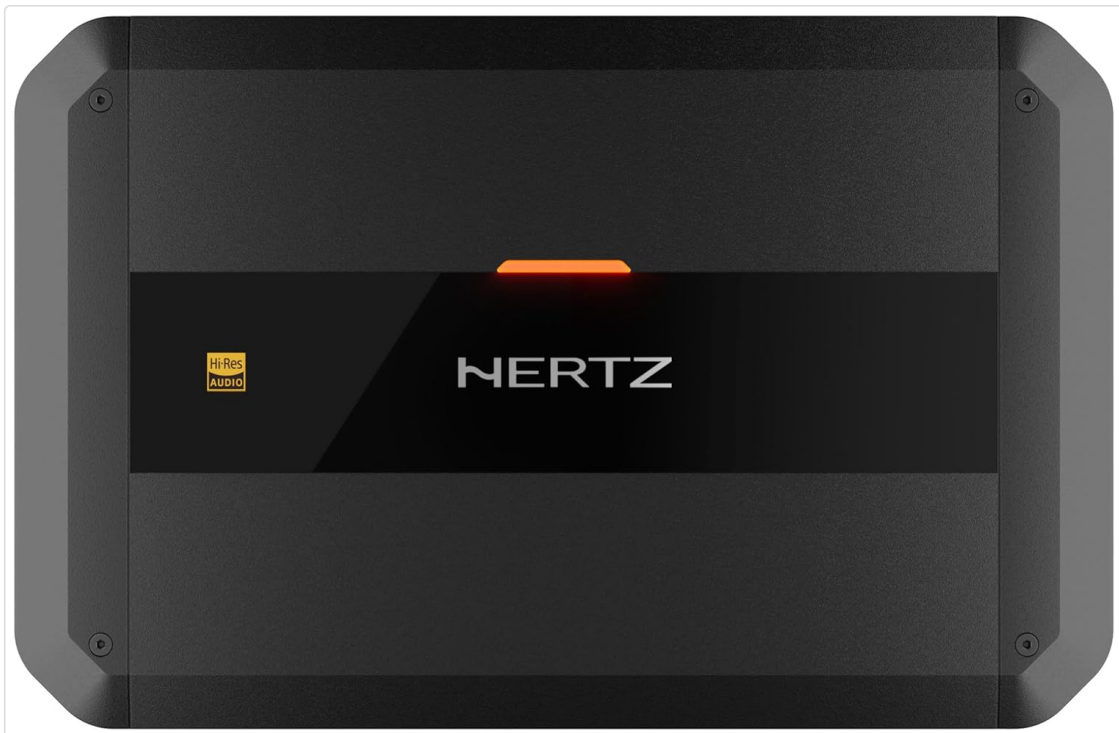


Image 2.2: Graphic illustrating key specifications of the DP 4.300, including 2-4 channel mode, AB-Class technology, 60W x 4 @ 4Ω output power, 0.01% THD, and 100 dBA S/N ratio.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. Ensure you have all necessary tools and wiring before beginning.

3.1 Mounting the Amplifier

- Choose a mounting location that is dry, well-ventilated, and protected from direct sunlight or excessive heat.
- Ensure sufficient space around the amplifier for air circulation.
- Use the provided mounting hardware to secure the amplifier firmly to a solid surface.

3.2 Wiring Connections

Refer to the diagrams below for correct wiring connections. Always use high-quality cables.



Image 3.1: Rear panel of the Hertz DP 4.300 amplifier, showing power (GND, REM, +12V), fuse, and speaker output terminals.

Power Connections:

- **+12V (Power):** Connect to the positive terminal of the vehicle's battery via an appropriate fuse holder (not supplied) located within 18 inches of the battery.
- **GND (Ground):** Connect to a clean, unpainted metal point on the vehicle chassis. Ensure a solid, low-resistance connection.
- **REM (Remote Turn-On):** Connect to the remote output of your head unit. This signal turns the amplifier on and off with the head unit.

Speaker Connections:

- Connect your speakers to the 'SPK OUT' terminals. Observe correct polarity (+/-) for each speaker.
- The amplifier supports 2Ω stable operation. Ensure your speaker impedance matches the amplifier's capabilities.
- For bridged mode operation, consult the specific wiring diagram in the full product manual for your speaker configuration.



Image 3.2: Front panel of the Hertz DP 4.300 amplifier, displaying RCA inputs (Mono In, Front In, Rear In, Pre Out), Speaker-In terminals, Auto Turn-On switch, Level controls, Filter Mode switches, and Frequency/Boost adjustments.

Input Connections:

- **RCA Inputs (FRONT IN, REAR IN):** Connect these to the corresponding RCA pre-outs from your head unit for low-level signal input.
- **Speaker-In:** For head units without RCA pre-outs, connect the speaker-level outputs directly to the 'SPK-IN' terminals. The amplifier features a Universal Speaker Simulator for compatibility.

- **Auto Turn-On:** If using speaker-level inputs, the 'AUTO TURN ON' switch can be set to 'ON' to detect DC offset or audio signal for automatic amplifier turn-on, eliminating the need for a remote wire.

4. OPERATING INSTRUCTIONS

Once installed, the amplifier requires proper adjustment for optimal sound quality.

4.1 Adjusting Input Levels (Gain)

- Set the head unit volume to about 75% of its maximum.
- Play a dynamic piece of music.
- Slowly increase the 'LEVELS' control on the amplifier until you hear slight distortion, then back off slightly until the sound is clear.
- Avoid setting the gain too high, as this can lead to clipping and speaker damage.

4.2 Crossover Settings (Filter Mode)

- The 'FILTER MODE' switches allow you to select Full Range, High Pass (HI), or Low Pass (LO) filtering for each channel pair.
- **FULL:** No filter applied.
- **HI:** Allows frequencies above the set point to pass. Useful for tweeters or full-range speakers.
- **LO:** Allows frequencies below the set point to pass. Useful for subwoofers.
- Adjust the 'FREQUENCY' knob to set the desired crossover point (e.g., 80 Hz for subwoofers, 100 Hz for mid-range speakers).

4.3 Bass Boost

- The '50Hz BOOST' control allows you to increase bass output at 50 Hz.
- Use this feature sparingly and adjust carefully to avoid distortion or damage to speakers.

5. MAINTENANCE

Regular maintenance ensures the longevity and performance of your amplifier.

- **Cleaning:** Use a soft, dry cloth to wipe the amplifier's exterior. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure that the amplifier's cooling fins are free from dust and debris to maintain proper heat dissipation.
- **Connections:** Periodically check all power, ground, and speaker connections to ensure they are secure and free from corrosion.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse, loose power/ground/remote wire, no remote signal, incorrect Auto Turn-On setting.	Check amplifier fuses and vehicle's main fuse. Verify all power, ground, and remote connections. Ensure head unit is on and sending a remote signal, or check Auto Turn-On switch.
No Sound Output	Loose RCA/speaker wires, incorrect input selection, amplifier in protection mode, gain set too low.	Check all input and output connections. Ensure RCA cables are securely connected. Verify amplifier is not in protection mode (status LED). Adjust gain levels.
Distorted Sound	Gain set too high, incorrect crossover settings, poor ground connection, damaged speakers.	Reduce gain level. Adjust crossover settings. Check ground connection for corrosion or looseness. Inspect speakers for damage.
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high-volume operation.	Ensure adequate airflow around the amplifier. Verify speaker impedance is within specifications. Reduce listening volume or duration.

7. SPECIFICATIONS

Detailed technical specifications for the Hertz DP 4.300 amplifier.



Image 7.1: Table detailing the dimensions (mm and inches) and weight (Kg and lbs) of the Hertz DP 4.300 amplifier.

Specification	Value
Model Number	DP-4.300
Item Weight	5.36 pounds (2.43 kg)
Product Dimensions (L x W x H)	11.42 x 7.48 x 1.97 inches (290 x 190 x 50 mm)
Channels	4
Amplifier Class	AB-Class
Output Power (RMS)	105 WRMS x 4 at 2Ω (Refer to Image 2.2 for 4Ω rating)
Frequency Response	10 Hz – 50 kHz (Hi-Res Audio Certified)
Operating Voltage	9 to 16.5 V
Speaker-In Input Sensitivity	1.6 to 40 Vrms
Total Harmonic Distortion (THD)	0.01% (Refer to Image 2.2)

Specification	Value
Signal-to-Noise Ratio (S/N)	100 dBA (Refer to Image 2.2)

8. WARRANTY INFORMATION

The Hertz DP 4.300 amplifier comes with a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

The warranty does not cover damage caused by improper installation, accident, misuse, abuse, negligence, unauthorized modification, or normal wear and tear. For specific terms and conditions, please refer to the warranty card included with your product or contact Hertz customer support.



9. SUPPORT





For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Hertz customer support. You can typically find contact information on the official Hertz website or through your authorized dealer.

When contacting support, please have your product model number (DP-4.300) and proof of purchase readily available.


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Related Documents - DP-4.300

	<p>Hertz SP 4.500 SPL Show User's Manual</p> <p>User's manual for the Hertz SP 4.500 SPL Show D-Class Mono Amplifier, detailing installation, connections, technical specifications, and safety precautions.</p>
	<p>Hertz ML Power 5 Amplifier: Advanced Web Manual</p> <p>This comprehensive manual provides detailed information on the Hertz ML Power 5 car audio amplifier, including installation guides, operational controls, configuration diagrams, safety precautions, and technical specifications. Optimize your vehicle's sound system with Hertz.</p>

	<p>Hertz Dieci DP Series Amplifiers Quick Start Guide</p> <p>Quick start guide for Hertz Dieci DP Series car amplifiers (DP 1.500, DP 2.200, DP 4.300, DP 4.400), covering installation, safety precautions, and connections.</p>
	<p>Hertz MP 15K UNLIMITED Advanced Manual</p> <p>This advanced manual provides comprehensive details on the Hertz MP 15K UNLIMITED car amplifier, covering its features, installation, operation modes, technical specifications, and connection guidelines.</p>
	<p>Hertz H8 DSP Digital Interface Processor User's Manual - Optimize Your Car Audio</p> <p>Comprehensive user manual for the Hertz H8 DSP Digital Interface Processor. Learn about installation, connections, software setup, and technical specifications to maximize your car audio system's acoustic performance.</p>
	<p>Hertz S8 DSP Digital Interface Processor Installation and User Guide</p> <p>This document provides comprehensive instructions for the installation, connection, and operation of the Hertz S8 DSP Digital Interface Processor. It includes safety precautions, technical specifications, and detailed wiring diagrams.</p>

Documents - HERTZ – DP-4.300

	<p>Hertz Dieci DP Series Amplifiers Quick Start Guide</p> <p>Quick start guide for Hertz Dieci DP Series car amplifiers (DP 1.500, DP 2.200, DP 4.300, DP 4.400), covering installation, safety precautions, and connections.</p> <p>lang:en score:28 filesize: 3.05 M page_count: 11 document date: 2024-10-10</p>
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hertz DP 4.300 4-Kanal/Class-AB Auto-Audioverstärker

Allgemeine Daten	
Kanäle	4 - 3 - 2
Amp-Klasse	AB
STROMVERSORGUNG	
Nennversorgungsspannung (Sicherung)	11 + 15 VDC (2 x 20 A)
Betriebsversorgungsspannung	6,5 + 16,5 VDC
Leerlaufstrom	0,8 A
Standby-Stromaufnahme	5 µA
Verbrauch, minimale Lastimpedanz (maximale Musikleistung)	24 A
Remote-Eingang	4 + 15 VDC (1,5 W)
ART – Automatisches Ein-/Aussschalten per Fernbedienung über SPK-IN (nur BTL-Radio)	1,5 V Gleichstrom
Effizienz	59 %
VERSTÄRKERSTUFE	
Verzerrung – THD bei 100 Hz, 70 % Nennleistung	0,015 %
Dämpfungsfaktor bei 1 kHz, 1 W	105
Bandbreite @ -3 dB	10 Hz - 45 kHz
SN-Verhältnis (A-gewichtet bei 1 V Eingang)	100 dBA
Minimale Lastimpedanz	
@ 4 Oh:	2 Ω
@ 3-Kanal:	2 Ω + 2 Ω + 4 Ω
@ 2 Oh:	4 Ω
Einzelbare Frequenzweichen	Ja

Hertz Audio Media Center AG, 10119 Berlin

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A compact line of amplifiers with an invincible value/performance combination

The groundbreaking DIECI POWER amplifier series

Characterized by cutting-edge technologies and top-notch audio performance, the Dieci Power line offers a wide range of options for an uncompromising sonic experience.
The Dieci Power range includes two four-channel Class-AB amplifiers: the DP 4.300, delivering 75 W RMS x 4 at 4 Ω, and the DP 4.300, providing 60 W RMS x 4 at 4 Ω. Additionally, there is a stereo model, also in Class-AB, the DP 2.300, delivering 60 W RMS x 2 at 4 Ω, and the DP 1.500, an ultra-compact monoamping Class-D amplifier capable of delivering a whopping 500 W RMS on a 1 Ω load.

Hi-Res AUDIO

The Hi-Res audio certification for four and two channel models attests to a bandwidth reaching up to 40 kHz, positioning them at the top of their category and making them ideal for reproducing hi-res audio files from leading streaming platforms. The monoamping amplifier is characterized by a state-of-the-art Class-D circuitry with high efficiency, delivering 500 W RMS in a super-compact form factor.

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