

Infinity INFDSP4425

Infinity INFDSP4425 4x25 31-Band DSP with Sub Output

INSTRUCTION MANUAL

Introduction

The Infinity INFDSP4425 is a versatile 4-channel digital signal processor (DSP) with an integrated amplifier, designed to enhance your vehicle's audio system. It provides four finely-tuned and powered outputs, along with a dedicated subwoofer output. This unit accepts both RCA and speaker-level inputs, allowing for integration into various audio setups, including factory systems. The balanced differential inputs ensure optimal sound quality and noise rejection. This manual provides essential information for the proper installation, operation, and maintenance of your INFDSP4425.

Safety Information

Please read all instructions carefully before installing or operating the INFDSP4425. Failure to follow these guidelines may result in injury, damage to the unit, or damage to your vehicle.

- Always disconnect the vehicle's negative battery terminal before beginning any electrical work.
- Ensure proper grounding for all components to prevent electrical hazards.
- Use appropriate wire gauges for power and speaker connections as specified in the installation guide.
- Mount the unit securely in a location that does not obstruct vehicle operation or safety features.
- Avoid mounting the unit in areas exposed to excessive heat, moisture, or direct sunlight.
- Consult a qualified professional if you are unsure about any installation steps.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

What's in the Box

Verify that all components are present before proceeding with installation:

- 1x Infinity INFDSP4425 Digital Signal Processor/Amplifier
- Wiring Harnesses (Power/Speaker Input, RCA Output)
- Mounting Hardware

- User Manual (this document)

Setup

Physical Installation

Choose a mounting location that is dry, well-ventilated, and secure. Ensure there is sufficient space for wiring connections and heat dissipation. The unit can be mounted in various positions, such as under a seat, in the trunk, or behind a dashboard panel. Use the provided mounting hardware to secure the unit firmly to a solid surface.



Figure 1: Angled view of the Infinity INF DSP4425, illustrating its compact design and integrated mounting tabs for secure installation.

Wiring Connections

The INF DSP4425 features clearly labeled wire connections for straightforward installation.

- **Power (PWR):** Connect the main power wire to the vehicle's positive battery terminal, ensuring an inline fuse is installed close to the battery.
- **Ground (GND):** Connect the ground wire to a clean, unpainted metal surface on the vehicle chassis.
- **Remote (REM):** Connect the remote turn-on wire to your head unit's remote output. Alternatively, the unit supports DC offset or audio signal sensing for automatic turn-on.

- **Input:** The DSP accepts both RCA (low-level) and speaker-level (high-level) inputs. Connect your audio source to the appropriate input terminals.
- **Output:** Connect the speaker outputs to your vehicle's speakers and the subwoofer pre-out to an external subwoofer amplifier.



Figure 2: The Infinity INFDSP4425 with its various wiring harnesses connected, including RCA outputs (white and red connectors) and the multi-colored speaker-level input harness. This view highlights the comprehensive connectivity options.



Figure 3: A detailed view of the INFDSP4425's control panel, showing the remote port, turn-on mode switch (REM, DC, AUDIO), input level switch (LOW, HI), PC connection port, and the output/input wiring terminals.

Initial Configuration

After physical installation, the INFDSP4425 requires configuration using its dedicated DSP software. This software allows for precise tuning of equalization, crossovers, time alignment, and other audio parameters. Connect the unit to a computer via the USB port (labeled PC) and download the software from the official Harman website.

Operating Instructions

The primary operation of the INFDSP4425 involves using the DSP software to customize your audio settings.

- **DSP Software:** Launch the DSP software on your connected computer. The interface provides controls for:
 - **Equalization:** Adjust the 31-band equalizer for each channel to fine-tune the frequency response.
 - **Crossovers:** Set high-pass, low-pass, and band-pass filters for each speaker to direct appropriate frequencies.
 - **Time Alignment:** Adjust the delay for each speaker to ensure sound arrives at the listening position simultaneously.
 - **Gain Control:** Independently adjust the output level for each channel.
 - **Phase Control:** Adjust the phase of individual channels to correct acoustic issues.
- **Input Level Switch:** Set the "INPUT LEVEL" switch on the unit to "LOW" for RCA inputs or "HI" for speaker-level inputs.
- **Turn-On Mode:** Select the desired turn-on mode using the "TURN-ON MODE" switch:
 - **REM:** Uses a traditional remote turn-on wire from the head unit.
 - **DC:** Detects a DC offset on the speaker-level inputs to turn on.
 - **AUDIO:** Detects an audio signal on the speaker-level inputs to turn on.

Maintenance

The Infinity INFDSP4425 requires minimal maintenance.

- **Cleaning:** Periodically wipe the unit with a soft, dry cloth to remove dust. Do not use harsh chemicals or abrasive cleaners.

- **Ventilation:** Ensure that the mounting location allows for adequate airflow around the unit to prevent overheating.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

Troubleshooting

If you experience issues with your INF DSP4425, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power indicator (PWR LED off)	Blown fuse Loose power or ground connection Incorrect remote turn-on connection or setting	Check and replace the inline fuse. Verify all power and ground connections are secure. Ensure the "TURN-ON MODE" switch is set correctly (REM, DC, or AUDIO) and the remote wire is connected.
No audio output	Incorrect input level setting Loose input/output connections DSP software settings (e.g., gain too low, muted channels)	Verify the "INPUT LEVEL" switch is set to "LOW" for RCA or "HI" for speaker-level inputs. Check all RCA and speaker wire connections. Connect to the DSP software and check channel gains, mute settings, and crossover configurations.
Distorted sound	Input signal too high Gain set too high in DSP software Improper equalization settings	Reduce the volume from the head unit. Lower the gain settings for individual channels in the DSP software. Adjust equalization settings to remove harsh frequencies.
DSP software freezes or does not connect	Software compatibility issue USB connection problem	Ensure your computer meets the software requirements. Try a different USB port or cable. As noted by users, try enabling airplane mode on your laptop to resolve connectivity issues. Reinstall the DSP software.

Specifications

Model Name	INF DSP4425
Output Power	4 x 25W RMS
Input Voltage	12V (16 Volts Max)
Current Draw	15A
Surround Sound Channel Configuration	4.0
Connectivity Technology	USB (for DSP software)
Product Dimensions (D x W x H)	3.35" x 15.16" x 7.2"
Item Weight	3.39 pounds
Material	Metals, Plastics

Control Method	Remote (via DSP software)
Recommended Uses	Car audio systems

Warranty Information

The Infinity INFDSP4425 comes with a limited warranty. For specific terms, conditions, and duration of the warranty, please refer to the warranty card included with your product or visit the official Infinity website. Keep your proof of purchase for warranty claims.

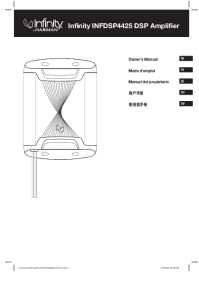
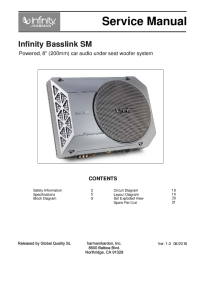
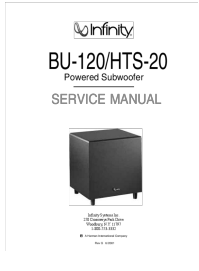
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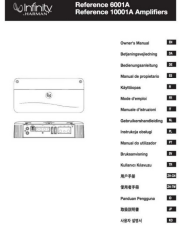

For technical assistance, software downloads, or further inquiries regarding your Infinity INFDSP4425, please visit the official Harman website or contact Infinity customer support.

- **Official Website:** www.harman.com (Harman is the parent company of Infinity)
- **Customer Service:** Refer to the contact information provided on the official website for your region.

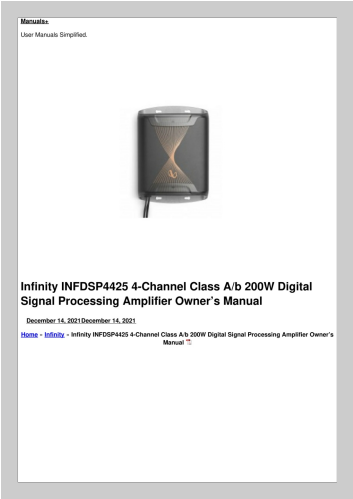
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Related Documents - INFDSP4425

	<p>Infinity INF DSP Amplifier Owner's Manual</p> <p>This manual provides installation guidelines, operation instructions, and troubleshooting for the Infinity INF DSP Amplifier. Learn how to connect, configure, and tune your audio system for optimal performance.</p>
	<p>Infinity Basslink SM Service Manual - Car Audio Under-Seat Woofer System</p> <p>Comprehensive service manual for the Infinity Basslink SM, an 8-inch (200mm) under-seat car audio powered subwoofer system. Includes detailed safety instructions, technical specifications, block diagrams, circuit diagrams for power, pre-amp, and input boards, layout diagrams, a mechanical exploded view, and a spare parts list.</p>
	<p>Infinity BU-120/HTS-20 Powered Subwoofer Service Manual</p> <p>Comprehensive service manual for the Infinity BU-120 and HTS-20 powered subwoofers, detailing specifications, troubleshooting, parts lists, and repair procedures.</p>

	<p>Infinity BassLink T Car Subwoofer Installation and User Manual</p> <p>Comprehensive installation, operation, and troubleshooting guide for the Infinity BassLink T car audio subwoofer. Learn about mounting, wiring, power connections, applications, controls, and tuning.</p>
	<p>Infinity Reference 6001A & 10001A Amplifiers: Owner's Manual & Installation Guide</p> <p>Comprehensive owner's manual and installation guide for the Infinity Reference 6001A and 10001A car audio amplifiers. Includes wiring diagrams, setup instructions, specifications, and troubleshooting.</p>
	<p>Infinity Reference 1200D Subwoofer Owner's Manual Installation & Specifications</p> <p>Official owner's manual for the Infinity Reference 1200D subwoofer. Find installation guides, technical specifications, wiring diagrams, and general care instructions for your car audio system. Learn about power handling, frequency response, and impedance.</p>

Documents - Infinity – INFDSP4425

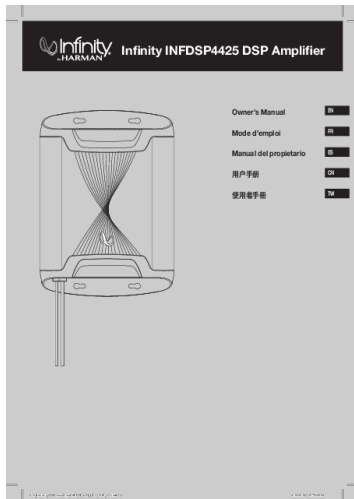


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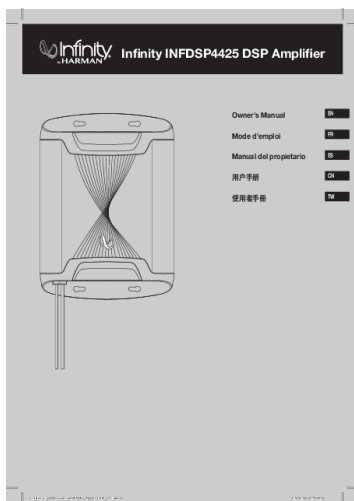
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[Infinity INF DSP4425 DSP Amplifier Owner's Manual](#)

This manual provides installation guidelines, operation instructions, and troubleshooting for the Infinity INF DSP4425 DSP Amplifier. Learn how to connect, configure, and tune your audio system for optimal performance.

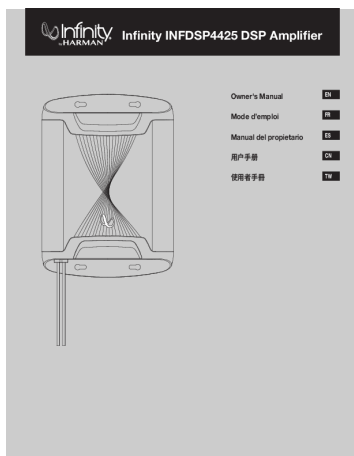
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