

Alpine PXA-H800

Alpine PXA-H800 System Integration Audio Processor User Manual

Model: PXA-H800

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1. INTRODUCTION

The Alpine PXA-H800 is a high-performance system integration audio processor designed to enhance your car audio experience. This unit features audiophile-grade components, including a 24-bit high-performance DAC, to deliver superior sound quality. It offers extensive connectivity and advanced sound tuning capabilities, making it a central component for sophisticated car audio systems.

Key features include:

- High-Resolution Audio with 24-Bit DAC
- Versatile Inputs: 6-Channel Analog, 2 Optical, 2 Ai-NET
- Amplified Outputs: 4 Volt Pre-Outs
- Advanced EQ: ImprintEQ, 31-Band Graphic EQ for speakers, 10-Band Graphic EQ for subwoofers, 10-Band Parametric Equalizer for channels, 5-Band Parametric EQ for subwoofers
- 8-Channel Digital Time Correction
- Enhanced Sound with MediaXpander Plus
- Surround Sound Support: Dolby Digital, Dolby Pro Logic II, DTS Digital Surround Sound
- PC Software for comprehensive tuning and preset access
- Compatibility with INA-W910 and RUX-C800 for control

2. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance. It is recommended that installation be performed by a qualified professional. Ensure the vehicle's battery is disconnected before beginning installation.

2.1 Connecting the PXA-H800

The PXA-H800 offers various input and output options for integration into your car audio system.

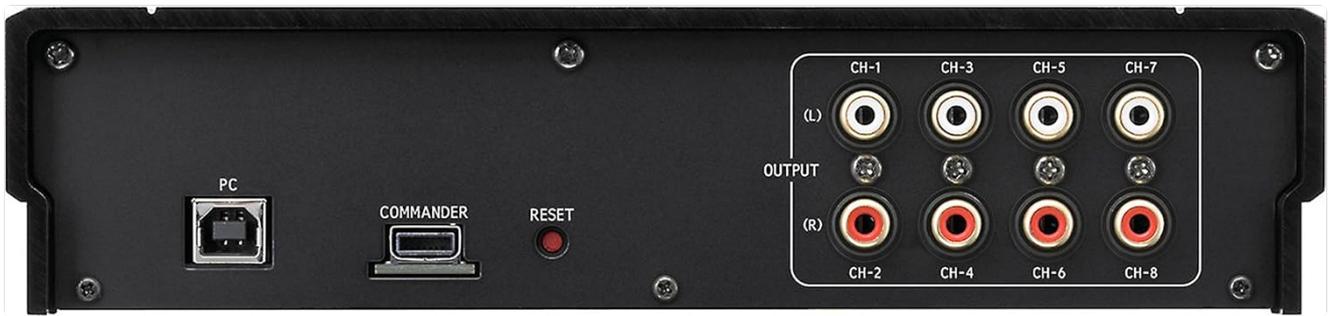


Figure 2.1: Input Connections. This image displays the rear panel of the Alpine PXA-H800, highlighting the auxiliary input (AUX INPUT) with left (L) and right (R) RCA connections for channels 1 through 6. Also visible are the Ai-NET ports for HU (Head Unit) and Changer, digital inputs (DIGITAL 1 and DIGITAL 2) for HU and Changer, and the power supply connector. A microphone (MIC) input is also present for calibration purposes.

Input Connections:

- **Analog RCA Inputs:** Connect up to 6 channels of analog audio from your head unit or other sources. These are labeled CH-1 through CH-6 (L/R).
- **Optical Inputs:** Two optical inputs (DIGITAL 1, DIGITAL 2) are available for high-quality digital audio sources, such as a compatible head unit or CD changer.
- **Ai-NET Inputs:** Two Ai-NET ports allow for direct digital connection with compatible Alpine head units (HU) and CD changers.
- **Microphone Input:** Used for the ImprintEQ automatic sound calibration process.
- **Power Supply:** Connect the provided power harness to the vehicle's power, ground, and remote turn-on leads.

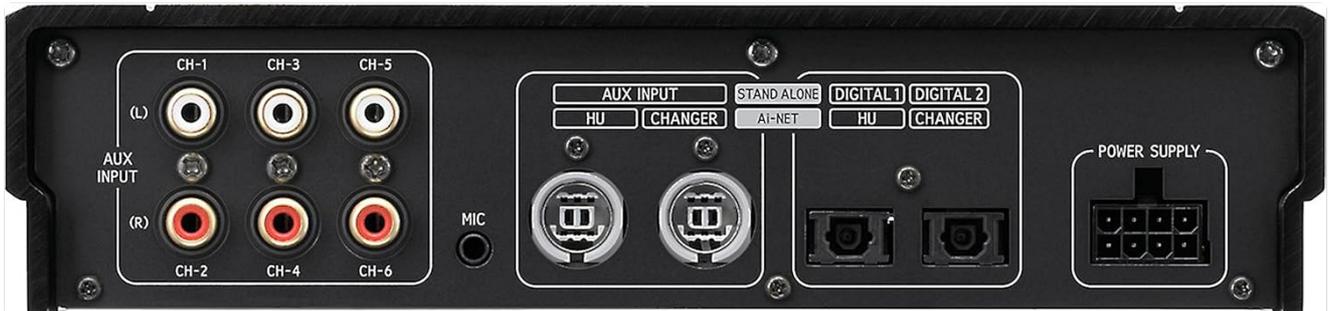


Figure 2.2: Output and Control Connections. This image shows the rear panel of the Alpine PXA-H800, detailing the 8-channel RCA outputs (OUTPUT) labeled CH-1 through CH-8 (L/R). Also visible are the PC USB port for computer connection, the COMMANDER port for the RUX-C800 controller, and a RESET button.

Output and Control Connections:

- **RCA Outputs:** Eight channels of 4-volt RCA pre-outs (CH-1 through CH-8) are provided for connecting to external amplifiers.
- **PC Port:** A USB port allows connection to a computer for detailed sound tuning and system configuration using the dedicated PC software.
- **COMMANDER Port:** This port is for connecting the optional Alpine RUX-C800 controller. *Note: The PXA-H800 requires either a compatible Alpine head unit or the RUX-C800 controller to function correctly and power on.*
- **RESET Button:** Use a pointed object to press this button to reset the unit to factory default settings.

2.2 Initial Power-On and Configuration

After all connections are made, reconnect the vehicle's battery. The PXA-H800 will require initial configuration. This is typically done via the dedicated PC software or the RUX-C800 controller. Ensure the PC software is installed on your computer before connecting the PXA-H800 via USB.

3. OPERATION

The Alpine PXA-H800 offers extensive control over your audio system. Most advanced settings are accessed through the PC software or the RUX-C800 controller.

3.1 Sound Tuning with PC Software

The included PC software provides a graphical interface for precise sound tuning. Connect your computer to the PXA-H800 via the USB port.

- **ImprintEQ:** Utilize the automatic sound calibration feature with the included microphone to optimize sound for your vehicle's acoustics.
- **Graphic Equalizers:**
 - 31-Band Graphic EQ for speaker channels.
 - 10-Band Graphic EQ for subwoofer channels.
- **Parametric Equalizers:**
 - 10-Band Parametric Equalizer for individual channels.
 - 5-Band Parametric EQ for subwoofer channels.
- **Digital Time Correction:** Adjust the timing for each of the 8 channels to ensure precise sound staging and imaging.
- **Crossover Settings:** Configure high-pass, low-pass, and band-pass filters for each channel.
- **MediaXpander Plus:** Enhance compressed audio files by restoring lost frequencies and dynamics.
- **Surround Sound Settings:** Configure Dolby Digital, Dolby Pro Logic II, and DTS Digital Surround Sound modes for compatible systems.
- **Preset Management:** Save and load multiple sound presets for different listening preferences or vehicle conditions.

3.2 Using the RUX-C800 Controller (Optional)

The RUX-C800 controller provides convenient access to essential functions and preset recall without a computer. Connect it to the COMMANDER port. Refer to the RUX-C800 manual for detailed operation instructions.

3.3 Compatibility with INA-W910

The PXA-H800 is compatible with the Alpine INA-W910 head unit, allowing for integrated control and preset access directly from the head unit interface.

4. MAINTENANCE

The Alpine PXA-H800 is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure longevity:

- **Cleaning:** Use a soft, dry cloth to wipe the unit. Avoid abrasive cleaners, solvents, or harsh chemicals.
- **Ventilation:** Ensure the unit has adequate ventilation to prevent overheating. Do not block any vents.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.
- **Software Updates:** Check the official Alpine website for any available firmware or software updates for the PXA-H800. Updates can improve performance and add new features.

5. TROUBLESHOOTING

If you encounter issues with your PXA-H800, refer to the following common troubleshooting steps:

5.1 No Power / Unit Does Not Turn On

- **Check Power Connections:** Verify that the power, ground, and remote turn-on wires are correctly connected and secure.
- **Controller Requirement:** The PXA-H800 requires either a compatible Alpine head unit or the RUX-C800 controller to power on. Ensure one of these is connected and functioning.
- **Vehicle Battery:** Confirm the vehicle battery has sufficient charge.
- **Fuses:** Check the inline fuse on the power cable and any fuses in your vehicle's fuse box related to the audio system.

5.2 No Sound Output

- **Input Source:** Ensure the correct input source is selected on your head unit or controller.
- **RCA Connections:** Verify all RCA cables from the PXA-H800 outputs to your amplifiers are securely connected.
- **Amplifier Status:** Check if your amplifiers are powered on and functioning correctly.
- **Volume Levels:** Confirm that volume levels are not set to minimum on the head unit, PXA-H800 (via software/controller), or amplifiers.
- **Mute Function:** Check if the system is accidentally muted.

5.3 Distorted or Poor Sound Quality

- **Gain Settings:** Adjust gain settings on the PXA-H800 and amplifiers to prevent clipping.
- **ImprintEQ Calibration:** Re-run the ImprintEQ calibration process to ensure optimal acoustic correction for your vehicle.
- **EQ Settings:** Review and adjust equalizer settings in the PC software. Excessive boosting of certain frequencies can cause distortion.
- **Source Quality:** Ensure the audio source (e.g., head unit, media player) is providing a clean signal.
- **Grounding Issues:** Poor grounding can introduce noise. Verify all ground connections are solid.

5.4 PC Software Connection Issues

- **USB Cable:** Try a different USB cable.
- **Driver Installation:** Ensure the correct USB drivers for the PXA-H800 are installed on your computer.
- **Software Version:** Verify you are using the latest version of the Alpine PXA-H800 PC software.
- **Restart:** Restart both the computer and the PXA-H800 unit.

If these steps do not resolve the issue, please contact Alpine customer support or consult a professional installer.

6. SPECIFICATIONS

Product Dimensions	9.06 x 8.66 x 11.02 inches
Item Weight	5.94 pounds
Model Number	PXA-H800

Brand	Alpine
UPC	793276310293
DAC	24-Bit High-Performance
Analog Inputs	6-Channel RCA
Digital Inputs	2 Optical, 2 Ai-NET
Pre-Outs	8-Channel, 4 Volt RCA
Equalization	ImprintEQ, 31-Band Graphic (Speaker), 10-Band Graphic (Subwoofer), 10-Band Parametric (Channel), 5-Band Parametric (Subwoofer)
Time Correction	8-Channel Digital
Surround Sound Support	Dolby Digital, Dolby Pro Logic II, DTS Digital Surround Sound

7. WARRANTY & SUPPORT

7.1 Warranty Information

Alpine products are covered by a limited warranty. For detailed information regarding the warranty period, terms, and conditions applicable to your PXA-H800, please refer to the warranty card included with your product or visit the official Alpine website. Keep your proof of purchase for warranty claims.

7.2 Customer Support

If you require technical assistance, have questions about installation, or need to troubleshoot an issue not covered in this manual, please contact Alpine customer support. You can find contact information, FAQs, and additional resources on the official Alpine website:

www.alpine-usa.com/support

When contacting support, please have your product model number (PXA-H800) and serial number ready.