

Alpine INE-W970HD

Alpine INE-W970HD & PXE-C80-88 User Manual

Comprehensive Guide for Installation, Operation, and Maintenance

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Alpine INE-W970HD Audio/Video/Navigation System and Alpine PXE-C80-88 OPTIM8 8-Channel Hi-Res DSP Amplifier. Please read this manual thoroughly before using the product to ensure proper and safe operation.

The Alpine INE-W970HD is an advanced in-dash unit compatible with Apple CarPlay and Android Auto, offering comprehensive audio, video, and navigation functionalities. The Alpine PXE-C80-88 OPTIM8 is a high-resolution digital sound processor amplifier designed to enhance your vehicle's audio system with precise sound tuning capabilities.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the unit:

- Do not operate the system in a way that distracts you from driving.
- Ensure proper wiring and connections to avoid electrical shorts or fire hazards.
- Consult a professional for installation if you are unsure about any steps.
- Keep the unit away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- Alpine INE-W970HD Audio/Video/Nav System
- Alpine PXE-C80-88 OPTIM8 8-Channel Hi-Res DSP Amplifier

- Wiring Harnesses
- Mounting Hardware
- GPS Antenna (for INE-W970HD)
- USB Extension Cable
- User Manuals (this document)



Image: The Alpine INE-W970HD head unit and the Alpine PXE-C80-88 DSP amplifier, showing both main components of the bundle.

4. SETUP AND INSTALLATION

Professional installation is highly recommended for these components. Incorrect wiring can cause damage to the units or your vehicle's electrical system.

4.1. INE-W970HD Installation

The INE-W970HD is designed for in-dash mounting. Ensure adequate space and proper ventilation.

1. **Preparation:** Disconnect the vehicle's negative battery terminal before starting any electrical work.
2. **Mounting:** Securely mount the INE-W970HD into the vehicle's double-DIN opening using the provided mounting brackets.
3. **Wiring:** Connect the main power harness, speaker wires, and other input/output cables (RCA, USB, HDMI, GPS antenna) as per the wiring diagram provided in the separate installation guide.
4. **Antenna Connection:** Connect the GPS antenna and radio antenna. Position the GPS antenna in a location with a clear view of the sky.



Image: The Alpine INE-W970HD head unit displaying the Apple CarPlay interface, showing various app icons.

4.2. PXE-C80-88 OPTIM8 Installation

The PXE-C80-88 OPTIM8 should be mounted in a dry, well-ventilated area, such as under a seat or in the trunk.

1. **Mounting Location:** Choose a location that is protected from moisture and excessive heat, and allows for proper cable routing.
2. **Power Connection:** Connect the power and ground wires directly to the vehicle's battery, ensuring proper fusing.
3. **Input Connections:** Connect the audio input signals from the INE-W970HD (or other source) to the PXE-C80-88. This can be done via RCA or speaker-level inputs.
4. **Output Connections:** Connect the speaker outputs from the PXE-C80-88 to your vehicle's speakers.



Image: A detailed view of the Alpine PXE-C80-88 OPTIM8 DSP amplifier, highlighting its compact design and connection ports.

5. OPERATING INSTRUCTIONS

5.1. INE-W970HD Basic Operation

- **Power On/Off:** Press and hold the power button (usually located on the front panel) to turn the unit on or off.
- **Volume Control:** Use the rotary encoder or on-screen controls to adjust the volume.
- **Source Selection:** Tap the "Source" icon on the touchscreen or use the physical buttons to select between Radio, USB, Bluetooth Audio, HDMI, Apple CarPlay, Android Auto, and other inputs.
- **Navigation:** Access the built-in navigation system by tapping the "NAV" button. Enter destinations, view maps, and follow turn-by-turn directions.
- **Apple CarPlay / Android Auto:** Connect your compatible smartphone via USB. The system will automatically launch the respective interface, allowing access to phone functions, messaging, music, and navigation apps.



Image: The Alpine INE-W970HD head unit displaying the Android Auto interface, showing various app icons like Maps, Spotify, and YouTube Music.

5.2. PXE-C80-88 OPTIM8 Sound Tuning

The OPTIM8 offers advanced sound tuning capabilities. It can be configured via a PC application or an iOS app.

1. **App Connection:** Connect your PC or iOS device to the PXE-C80-88 via USB or Bluetooth (if applicable).
2. **Automatic Tuning:** Utilize the "5 Minute Self-Tuning" feature for quick and optimized sound calibration. This process uses a microphone (sold separately) to analyze your vehicle's acoustics.
3. **Manual Tuning:** For advanced users, the PC App provides comprehensive control over equalization, crossovers, time correction, and level adjustments for each of the 8 channels.
4. **Preset Management:** Save and recall custom sound presets for different music genres or listening preferences.



Image: A top-down view of the Alpine PXE-C80-88 OPTIM8 DSP amplifier, showcasing its sleek design and central branding.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Alpine system.

- **Cleaning the Display:** Use a soft, dry cloth to wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen cleaner designed for electronics. Do not use abrasive cleaners.
- **Software Updates:** Periodically check the Alpine website for firmware updates for both the INE-W970HD and PXE-C80-88. Updates can improve performance, add features, and fix bugs.
- **Cable Connections:** Occasionally check all cable connections to ensure they are secure and free from corrosion.
- **Ventilation:** Ensure that the PXE-C80-88's ventilation fins are not obstructed to prevent overheating.



Image: The Alpine INE-W970HD head unit displaying the radio interface, showing frequency and time information.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No Power	Blown fuse, loose power connection.	Check vehicle fuses and unit's inline fuse. Verify power and ground connections.
No Sound	Muted, incorrect source, loose speaker wires, DSP not configured.	Check mute function. Select correct audio source. Verify speaker connections. Ensure PXE-C80-88 is properly configured via its app.
Navigation Not Working	GPS antenna not connected or obstructed.	Ensure GPS antenna is securely connected and has a clear view of the sky.
CarPlay/Android Auto Not Connecting	Faulty USB cable, phone not compatible, software glitch.	Try a different USB cable. Ensure your phone's OS is up to date. Restart both phone and head unit.



Image: The Alpine INE-W970HD head unit displaying a navigation map with route information.

8. SPECIFICATIONS

8.1. Alpine INE-W970HD

- **Display:** Touchscreen
- **Connectivity:** USB, HDMI, Ethernet, optical audio, component video, RCA
- **Compatibility:** Apple CarPlay, Android Auto
- **Audio Output Mode:** Stereo, Surround
- **Surround Sound Channel Configuration:** 7.1
- **Video Encoding:** H.264, H.265/HEVC

8.2. Alpine PXE-C80-88 OPTIM8

- **Amplifier Channels:** 8-Channel
- **Power Output:** 50W x 6 @ 2 Ω + 300W x 2 @ 2 Ω
- **Processing:** Hi-Res Digital Sound Processor (96kHz/24Bit)
- **Tuning:** Automatic (5-minute self-tuning) & Manual via PC/iOS App

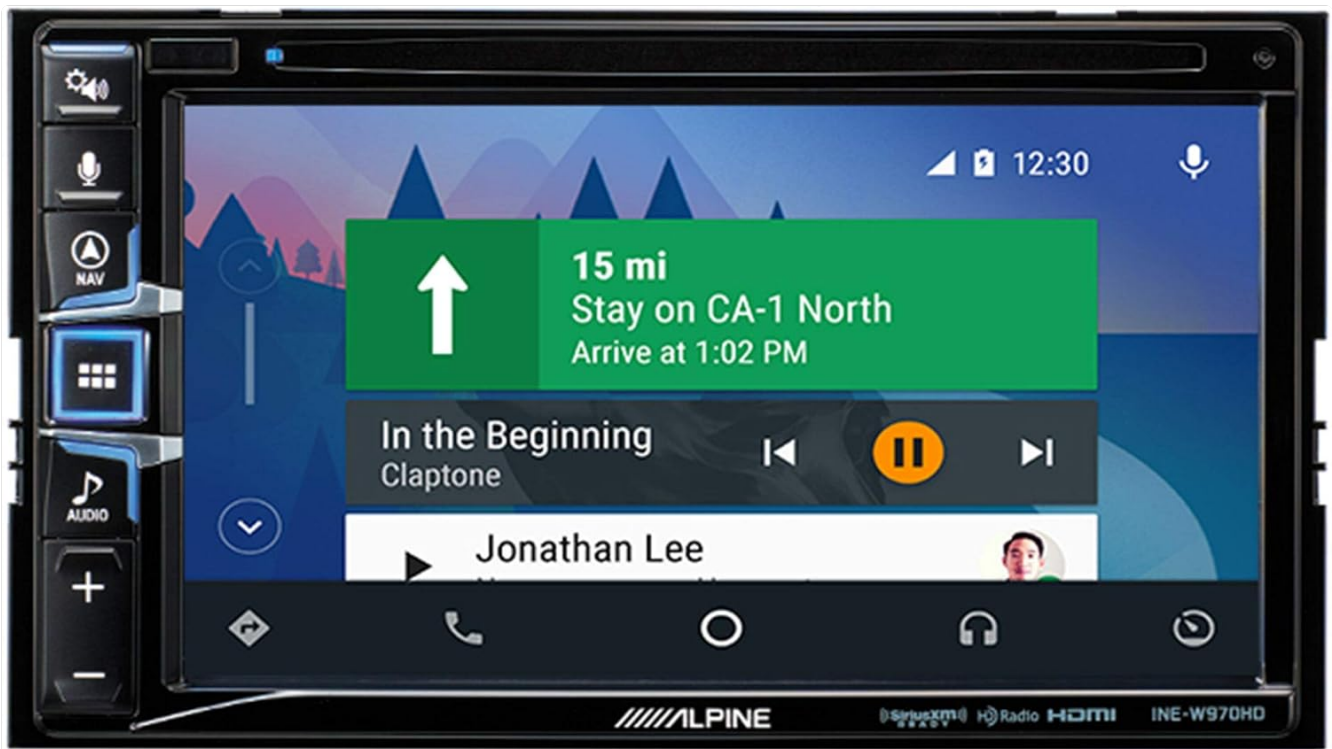


Image: A side view of the Alpine PXE-C80-88 OPTIM8 DSP amplifier, showing its compact profile and connection points.

9. WARRANTY INFORMATION

Alpine products are covered by a limited warranty. Please refer to the warranty card included with your product or visit the official Alpine website for detailed terms and conditions. Typically, the warranty covers defects in materials and workmanship for a specified period from the date of purchase.

Keep your proof of purchase (receipt) as it will be required for any warranty claims.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Alpine customer support:

- **Website:** Visit www.alpine-usa.com/support for FAQs, software downloads, and contact information.
- **Phone:** Refer to the Alpine website for the most current customer service phone numbers.
- **Authorized Dealers:** Your authorized Alpine dealer can also provide support and service.

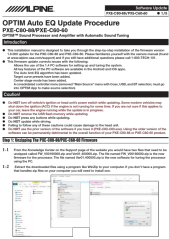


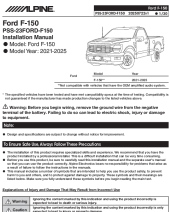


Image: The Alpine RUX-CSP1 remote control, an optional accessory for the DSP, featuring a rotary knob and display.

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Product specifications are subject to change without notice.

Related Documents - INE-W970HD

<div>Auto EQ 2.0 Manual</div> <div>For PXE-C80-88/PXE-C60-60</div> <div></div> <div><small>The content being used is under development and may differ from the actual product. Please refer to the actual product for the latest information and specifications. The company is not liable for any loss or damage caused by the use of this document.</small></div>	<div>Alpine PXE-C80-88/PXE-C60-60 Auto EQ 2.0 Manual</div> <div>User manual for the Alpine PXE-C80-88 and PXE-C60-60 Auto EQ 2.0 digital signal processors, detailing firmware updates, app control, audio settings, measurement, and tuning.</div>
<div></div> <div>ALPINE HALO9 9" ADVANCED NAVIGATION SYSTEM INE-F904D</div> <div></div> <div><small>1. PRELIMINARY CONTENT 2. GENERAL INFORMATION 3. INSTALLATION 4. OPERATION 5. MAINTENANCE 6. TROUBLESHOOTING 7. SPECIFICATIONS 8. ACCESSORIES 9. WARRANTY 10. INDEX</small></div>	<div>Инструкция по эксплуатации Alpine HALO9 INE-F904D</div> <div>Полное руководство пользователя для автомобильной навигационной системы Alpine HALO9 INE-F904D, охватывающее установку, функции, настройки и меры безопасности.</div>

	<p>Alpine PXE-C80-88/PXE-C60-60 OPTIM Auto EQ Firmware Update Procedure</p> <p>Step-by-step guide for updating the firmware and software for the Alpine PXE-C80-88 and PXE-C60-60 OPTIM™ Sound Processor and Amplifier. Includes unzipping files, updating firmware, and troubleshooting.</p>
	<p>Alpine PXE-C80-88/PXE-C60-60 Auto EQ 2.0 Manual</p> <p>User manual for the Alpine PXE-C80-88 and PXE-C60-60 Auto EQ 2.0 system, detailing firmware updates, smartphone app control, AutoEQ setup, audio tuning, and system specifications.</p>
	<p>Alpine Navi Station X409/X308U/INE-W987HD Owner's Manual</p> <p>Comprehensive owner's manual for Alpine's Advanced Navi Station models X409, X308U, and INE-W987HD. Covers installation, operation, features, safety precautions, and troubleshooting for these advanced car audio and navigation systems.</p>
	<p>Alpine PSS-23FORD-F150 Installation Manual for Ford F-150 (2021-2025)</p> <p>Comprehensive installation guide for the Alpine PSS-23FORD-F150 audio system in Ford F-150 vehicles (2021-2025). Includes tools, accessories, step-by-step instructions, wiring diagrams, and specifications.</p>