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> [Alpine PXE-C60-60 Optim6 6-Channel Hi-Res Sound Processor Instruction Manual](#)

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Alpine PXE-C60-60 Optim6 6-Channel Hi-Res Sound Processor Instruction Manual

Model: PXE-C60-60 | Brand: Alpine

1. INTRODUCTION AND OVERVIEW

The Alpine PXE-C60-60 Optim6 is a sophisticated 6-channel high-resolution sound processor designed to optimize your vehicle's audio system. It offers advanced features for precise sound tuning, ensuring an immersive listening experience. This manual provides essential information for setting up, operating, and maintaining your Optim6 processor.



Figure 1.1: Alpine PXE-C60-60 Optim6 Sound Processor.

Key Features:

- **Effortless Sound Optimization:** Streamlines tuning via OPTIM IOS App or PC App with KTX-CSP1 External Mic kit (sold separately).
- **Intelligent Auto-EQ Technology:** Analyzes vehicle acoustics and adjusts audio output for optimal sound.
- **Real-Time Sound Customization:** Fine-tune audio with crossover adjustments, time correction, and six customizable presets.

- **Hi-Res Audio Playback:** Supports 96kHz/24Bit audio for crystal-clear sound.
- **Versatile Connectivity:** Features 6-channel 4V RCA outputs, coaxial and USB (DAC) digital inputs, and speaker input up to 30V.

2. SETUP AND INSTALLATION

2.1 Physical Installation

Ensure the processor is mounted securely in a dry, well-ventilated area away from direct heat or moisture. Its compact design allows for flexible placement within your vehicle.



Figure 2.1: Input side of the Alpine PXE-C60-60 Optim6, showing RCA inputs, coaxial, mic input, and power connections.

2.2 Connections

- **Power Connection:** Connect the processor to a stable 12V power source, ground, and remote turn-on lead.
- **Input Sources:** Utilize the 6-channel RCA inputs for standard audio signals or the coaxial and USB (DAC) digital inputs for high-resolution sources. The unit also supports speaker-level inputs up to 30V.
- **Output Channels:** Connect your amplifiers to the 6-channel 4V RCA outputs.



Figure 2.2: Output side of the Alpine PXE-C60-60 Optim6, showing RCA outputs, external Bluetooth, controller, and USB ports.

2.3 Software and App Setup

The Alpine PXE-C60-60 Optim6 is primarily configured and controlled via a dedicated app. Download the OPTIM IOS App (for Apple devices) or the PC App (for Windows computers).

- **App Installation:** Install the appropriate app on your smartphone or PC.
- **Microphone Connection:** For automatic sound tuning, connect the KTX-CSP1 External Mic kit (sold separately) to the processor.
- **Initial Connection:** Follow the app's instructions to connect to the PXE-C60-60 via Bluetooth or USB.



Figure 2.3: Smartphone displaying the OPTIM app interface for sound tuning.

3. OPERATING INSTRUCTIONS

3.1 Automatic Sound Tuning (Auto-EQ)

The Auto-EQ feature simplifies the tuning process. Using the KTX-CSP1 External Mic kit and the OPTIM App, the system will measure your vehicle's interior acoustics and automatically adjust the audio output for optimal sound.

- Place the microphone in the primary listening position (e.g., driver's seat).

- Initiate the Auto-EQ process through the OPTIM App.
- The system will play test tones and analyze the sound, then apply corrections.

3.2 Manual Sound Customization

For advanced users, the OPTIM App provides extensive manual control over various audio parameters:

- **Crossover Adjustments:** Set high-pass, low-pass, and band-pass filters for each channel to direct specific frequency ranges to appropriate speakers.
- **Time Correction:** Adjust the delay for each speaker to ensure sound from all speakers reaches the listener's ear at the same time, creating a precise soundstage.
- **Equalization:** Fine-tune the frequency response of each channel to match your preferences or compensate for vehicle acoustics.
- **Presets:** Save up to six custom tuning settings for different music genres or listening preferences. These can be easily recalled via the app or an optional remote control.

3.3 Hi-Res Audio Playback

The PXE-C60-60 supports high-resolution audio playback at 96kHz/24Bit. Ensure your audio source and files are of high resolution to fully experience the clarity and detail this processor offers.

4. MAINTENANCE

To ensure the longevity and optimal performance of your Alpine PXE-C60-60 Optim6, follow these maintenance guidelines:

- **Keep Dry:** Protect the unit from moisture and liquids. Water damage can lead to malfunction and void the warranty.
- **Clean Gently:** Use a soft, dry cloth to clean the exterior. Avoid abrasive cleaners or solvents.
- **Ventilation:** Ensure adequate airflow around the unit to prevent overheating. Do not block ventilation openings.
- **Connection Checks:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

5. TROUBLESHOOTING

If you encounter issues with your Alpine PXE-C60-60 Optim6, refer to the following common troubleshooting steps:

- **No Power:** Check all power, ground, and remote connections. Ensure the vehicle's battery has sufficient charge.
- **No Audio Output:** Verify all RCA and speaker connections. Check input source selection in the app. Ensure amplifier(s) are powered on and functioning correctly.
- **Noisy Output (White Noise/Humming):** This can be caused by grounding issues. Ensure a

clean, solid ground connection. Consider using a ground loop isolator if the problem persists. Check for proper signal gain staging to avoid clipping.

- **Software Connection Issues (App not connecting):** Ensure Bluetooth is enabled on your device and the processor. Try restarting both the app and the processor. Verify that you are using the correct app version and that it is up to date. If issues persist, contact Alpine support.
- **Incorrect Fader/Balance/Subwoofer Control:** Review the routing and mixing settings within the OPTIM App to ensure channels are assigned and configured correctly.
- **Distorted Sound:** Reduce input gain to prevent clipping. Check speaker impedance and ensure it matches your amplifier's capabilities.

6. SPECIFICATIONS

Feature	Detail
Model Number	PXE-C60-60
Item Weight	3.06 pounds
Product Dimensions	12 x 11.5 x 5 inches
Audio Playback	Hi-Res (96kHz/24Bit)
RCA Outputs	6-channel 4V
Digital Inputs	Coaxial, USB (DAC)
Speaker Input	Up to 30V

7. WARRANTY

The Alpine PXE-C60-60 Optim6 comes with a **2-year manufacturer warranty**. Please retain your proof of purchase for any warranty claims. For detailed terms and conditions, refer to the warranty information provided with your product packaging or visit the official Alpine website.

8. SUPPORT

For technical assistance, product inquiries, or troubleshooting beyond the scope of this manual, please contact Alpine customer service:

- Visit the official Alpine website for support resources, FAQs, and contact information.
- Refer to the contact details provided in your product packaging.

