Manuals+

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APLINE PXE-C80-88,PXE-C60-60 Channel Hi-Res Sound Processor Instruction Manual 📄

Contents [hide]

//////ALPINE

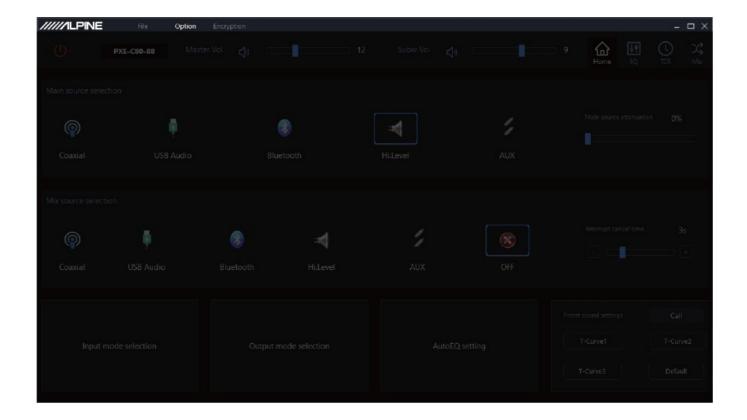## APLINE PXE-C80-88,PXE-C60-60 Channel Hi-Res Sound Processor

The screen being used is under development and may differ from the actual product.

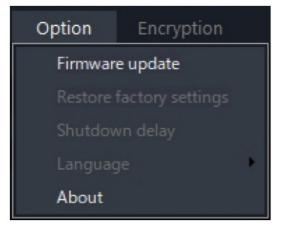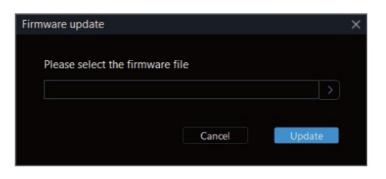## Firmware Update Software Installation

Precautions installation

- The software can only be used under the Microsoft® Windows® operating system. Operating system: Windows 10, Windows 11.
- Before connecting the PXE-C80-88 or PXE-C60-60 machine to the computer, please install the ALPINE_OPTIM_for_update computer software correctly.
- After installing the ALPINE_OPTIM _ for _ update software, you can update the PXE-C80-88 or PXE-C60-60 machine firmware on the computer.
- * You can download the latest PC software file from the Alpine website.

Firmware Update Introduction

1. Turn on the power of the product's main unit.
2. Connect one end of the USB cable to the main unit's USB port and the other end to your PC.
3. Double-click the ALPINE_OPTIM_for_update application icon to open the application.
4. Select [Firmware Update] from [Option] to open the firmware update.

5. Click [>] and select the main unit firmware update file first.
6. Click [Update] to update the main unit firmware.
   - The firmware update successfully ends when the update process reaches 100%.
7. Click [OK] to finish updating the main unit firmware.
   - After it is updated, the device will restart automatically.
8. Click [>] and select the controller firmware update file.
9. Click [Update] to make the controller firmware updated.
   - The firmware update successfully ends when the update process reaches 100%.

10. Click [OK] to finish updating the controller firmware.
    - After it is updated, the device will restart automatically.
    - * The firmware update file for the main unit and controller can be downloaded from the Alpine website.

F View About

Select [About] from the options page to enter the about page.

About page

You can view the version number.

Smartphone App

Connection

1. Open your smartphone or tablet's settings.
2. Open the Bluetooth settings and make sure that Bluetooth is enabled.
3. Scan your device.
4. On your smartphone or tablet, when "DSP-HD-XXXXXX" is detected, select it to make a connection.
    - The indicator on the Bluetooth adapter will flash while the device is pairing. The indicator will light up when the pairing is complete.
    - Only one Bluetooth-compatible device can be paired.
      It is not possible to connect two Bluetooth-compatible device sat the same time.
5. Scan the QR code of your smartphone or tablet and install the app.

App Store

Play Store
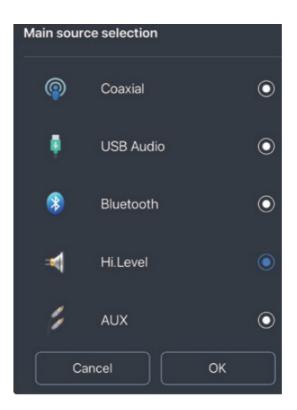

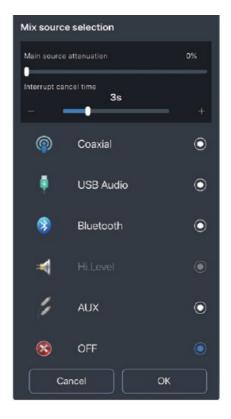6. Launch the app and connect it to the main unit.

Home settings

Main Source Selection

- Setting item: Main source selection
- Setting content: Coaxial/USB Audio/Bluetooth/Hi.Level/AUX

Mix Source Selection

- Setting item: Mix Source Selection
- Setting content: Coaxial/USB Audio/Bluetooth/Hi. Level/AUX/OFF

Main source attenuation setting

You can set the amount of attenuation at the time of Mix source audio interruption by sliding the slider bar.

Mix sauce is equivalent to mixing.

The greater the attenuation of the main sound source the lower the main volume at the time of audio interruption.

- Adjustable range: 0% to 100% Mix Source Selection
- Setting item: Main source attenuation
- Setting content: 0% to 100% (default 0%)

Interrupt cancel time setting

- Setting item: Interrupt cancel time
- Setting content: 1s to 10s (default: 3s)

Master volume setting

- Setting item: Master Volume
- Setting content: 0 to 35 (default: 12)
  1. You can adjust the volume by sliding the slider bar.
  2. Touch the main volume [🔊] button toen able mute [🔇] . Touch it again to disable mute. (Mute will be automatically canceled when the volume is adjusted.)

Subwoofer level setting

- Subwoofer Level Setting Subwoofer Level
- Setting content: 0 to 15 (default: 9)

Auto EQ setting

- Perform Auto EQ measurement and adjustment.

Target Curve Preset setting

- Setting item: Target curve preset setting
- Setting content: Call
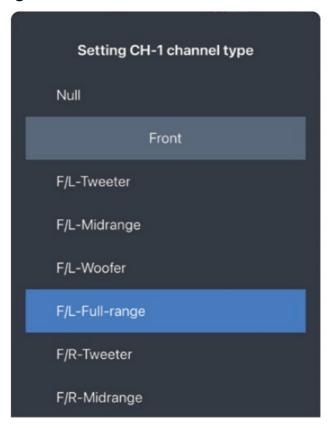- Touch the preset button to recall the saved target curve.

Channel settings

Output mode settings

Customize the output type. You can set the output type according to your system.

Output type custom page

1. Touch the Output mode custom box.
2. Select the output type in the pop-up window. Set the output type in the output type setting dialog box.
   - [Front] has the [Tweeter], [Midrange],
   - [Woofer], and [Full-range] options.
   - For [Rear], the [Tweeter], [Midrange],
   - [Woofer], and [Full-range] options are available.
   - For [Center], [Front Center],
   - [Rear Center], [F/C-Tweeter] (Front/Center tweeter), and [R/C-Tweeter] (Rear/Center tweeter) options are available.
   - For [Subwoofer], the [L-subwoofer],
   - [R-subwoofer], and [Sub foofer] options are available.

Output volume settings|

Setting item: Output volume setting

Setting content: Gain/Phase

1. Gain setting:
   - Gain can be adjusted by directly entering the value or by touching [-] and [+].
   - Adjustable range: -60 dB to 6 dB
2. Phase setting:
   - This is used to switch between normal phase or reverse phase.

X-Over Setting

- Setting item: X-Over setting
- Setting content: Type/Frequency/Slope
    1. Type setting:

        [Link-Ril], [Bessel], and [Butter-W].
    2. Frequency setting:

        The frequency can be adjusted by directly entering the value or by touching [-] and [+].
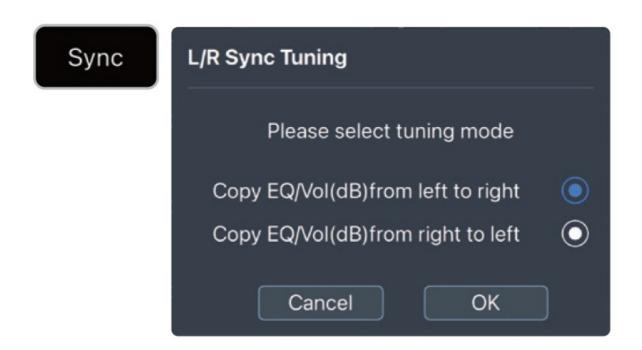
        Adjustable range: 20 Hz to 20000 Hz
    3. Slope setting:

        Options are -6dB/Oct,

        - 12dB/Oct, -18dB/Oct,
        - 24dB/Oct, -30dB/Oct,
        - 36dB/Oct, -42dB/Oct, and -48dB/Oct.

Sync setting

- Click [**Sync**].

  Available sync options are Copy EQ/Vol(dB) from left to right or Copy EQ/Vol(dB) from right to left.

Lock setting

- Click [Lock].

  All output channel types are locked.

Reset setting

- Click [Reset].

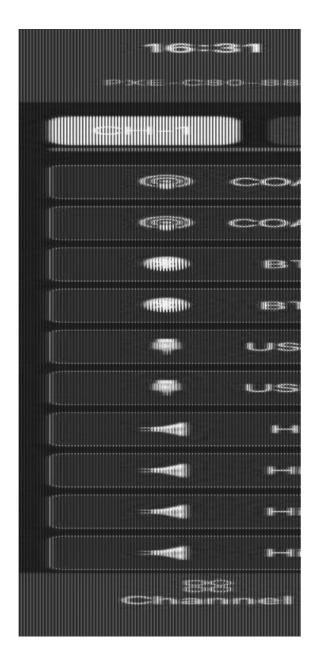 All output channel types are cleared.

Store setting

- Click [Store]
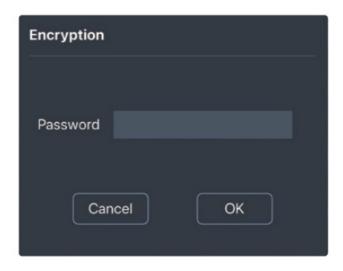
  The current output channel settings are saved.

MIX setting

When you set the sound source signal on the PXE-C80-88/PXE-C60-60 main unit, it is divided into volumes for each output channel, the volumes of the respective sound sources on the channels are adjusted, and they are mixed.

- **Option settings** Touch [] to open the Option page.
- **Load** Use this to load the saved configuration data.
- **Save** Use this to save the current configuration data. You can recall it later.
- **Encryption Settings** Touch [Encryption] to enter the encryption page, and touch [Decryption] to enter the decryption page.

Encryption/Decryption page

Setting item: Encryption/Decryption

1. Encryption:

   Enter the password to encrypt the setting data.
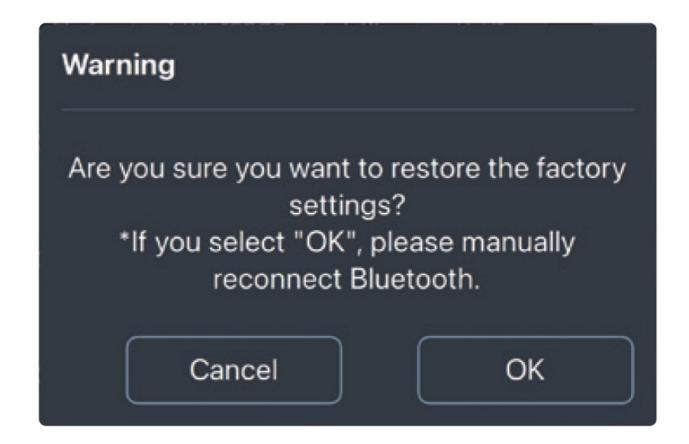2. Decryption:

   You can enter a password to decrypt or clear data to EQ default data.

   - Encryption of setting data.
   - Encryption only encrypts a single group of audio data currently in use, not all data of the whole machine.

Restore Factory Settings

Select [Restore Factory Settings] from the option page to enter the factory reset page.
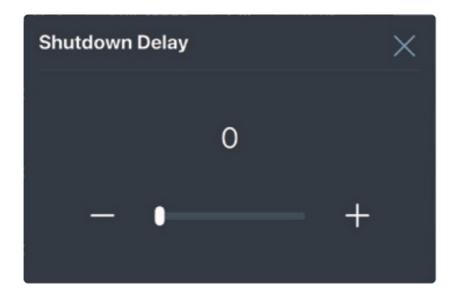
Restore factory settings page

Setting item: Encryption/Decryption

1. Touch the "OK" button to restore all the data set in the machine to the factory default state.
2. After selecting "OK", manually retry the Bluetooth connection.

Shutdown Delay

Select [Shutdown Delay] from the options page to enter the shutdown delay setting page.

Shutdown delay page

- Setting item: shutdown delay
- Setting content: 0 to 255s (initial value: 0s)

About

Select [About] from the options page to enter the about page.

About page

You can view the version number.

Auto EQ

* To use this function on a device other than the iPhone, an external microphone (KTXCSP1) is required.

Auto Anti EQ

- It is usable when Hi.Level is selected for Main source.
- Insert a USB storage into your audio device and play the sweep signal file.

- * The sweep signal file can be downloaded from the Alpine website.

Volume Adjustment

- Place the microphone in the middle of your car, about 30 cm (1 foot) from the center console. Then, click the button to proceed.
- A sweep sound will be played at a low volume. Using the on-screen volume slider, gradually increase the volume until the input level is close to the center of the volume monitor.
- Once a good level is detected for a few seconds, the signal playing will automatically stop.
- Once the level adjustment is complete, you will be prompted to proceed to the next step (measurement).

Measurement

Microphone movement

Correct microphone movement during sound measurement is critical to setting a good result from Auto EQ. Please read this section carefully.

1. Overview
   - To make a measurement, you will move the microphone through the space of the

cabin while Auto EQ plays a frequency sweep ("whoop-whoop" sound).

- The key is to move the microphone constantly and consistently so that all of the space in the cabin is evenly covered during measurement.
- This is important, so we will explain it in detail.

2. Measurement points
   - One AutoEQ measurement consists of at least 200 measurement points. That is, the frequency sweep ("whoop-whoop") will be played 200 times in order to measure the cabin's sound.
   - The exact point in space where the microphone is when it hears one frequency sweep is a measurement point. The sound was measured at that point.
   - The goal of microphone movement is to space these measurement points as evenly as possible in the frontal space of the car cabin.

3. Range of movement

   Spaces through which you should move the microphone include:
   - The space above the dashboard.
   - The space in front of the driver and passenger, as low as the front of their shins (going slightly into the foot wells) and as high as the ceiling.

4. What to avoid

   When moving the microphone for a measurement:
   - Do not stop moving the microphone at all, including for individual measurement points.
   - Do not go deep into the foot well spaces in the measurement.

Perform measurement

- When you are ready, touch the button to begin measurement.
- A countdown will begin on the screen, and then the measurement process will begin. For the duration of the measurement, move the microphone through the cabin of the car as described in the previous section.
- During measurement, the result of each sweep will be displayed on the screen with a faint curve and the average will be shown with a strong curve.

- The progress of the entiremeasurement will be shown in a progress bar at the bottom of the screen.
- The app will confirm when measurement is completed.

- If you see no obvious problems with the measurement, you can accept it. If not, choose "remeasure" to retry measurement.

Tuning

With measurement complete, you are ready to tune the sound in the vehicle.

Tuning screen

This section is an introduction to the tuning screen. Figure 6. It will cover the controls shown on the screen without discussing procedure.

1. Side Panel Controls

   These are the controls available outside of the main graph area:

   - Center Stage Mode

     This is used to recall driver-specific Center Stage Mode settings.

- EQ Gain Offset

  This setting adjusts the boost and cut of the EQ. This will be the first step in your tuning process.

- Reset to Default

  This button resets everything on this tuning screen to defaults.

- Bypass EQ

  This toggle allows you to A/B test the sound with the EQ on and off.

- Level

  This slider controls the volume of the music source.

- Store / Recall

  This allows you to save the adjusted target curve or recall the saved target curve.

2. Graph Curves

   These are the curves shown in the main graph area. The display of each one can be toggled on and off.

- Target (yellow)

  This is the curve which you will manipulate to tune the system. AutoEQ will match your system's sound to this curve.

- Measurement (dark teal)

  This is the measured APVD of your car's system.

- EQ (blue)

  This is the correction curve AutoEQ will apply in order to achieve your target curve.

- Predicted (gray)

  This curve shows what the predicted result from your target curve will be. It will vary slightly from the target (yellow) curve, or may be hidden behind it if AutoEQ is going to hit your target exactly.

Distortion & Noise (magenta) – This curve shows the distortion and noise that were present during your measurement.

Tuning Process

This section covers the standard procedure using the tuning screen to create your EQ.

1. Play reference audio

   You can play audio while tuning. You can make tuning in real time while playing audio from the device selected as Main source.

2. Adjust the Target Curve

   - Enable the display of the Target curve.
     (Displaying other curves is optional.) This is the yellow curve with control points which you can set to define your desired outcome. Each control point is represented as a node (white dot) on the curve.

   - Moving the control points
     To move a control point, simply drag it to the desired location. You can move it side to side or up and down.

   - Adding a control point
     To add a control point, double-tap on the Target curve where you want to create the new point. Then, drag that point to adjust its position.

   - Deleting a control point
     To delete a control point, double-top on it. You will have an option to delete that control point, or to cancel deletion.
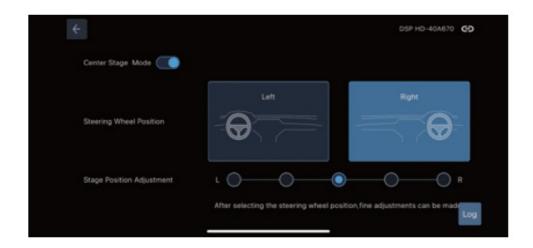   As you modify the target curve, AutoEQ will update the EQ curve and send it to the amp so you can hear your result. There is a delay of a few seconds from when you make an adjustment to when you hear it from the system.

3. Storing the EQ Curve

   - After adjusting the target curve, touch the [Store/Recall] button to call up the preset screen.

   - Touch the [Store] button and select T-Curve1/2/3 to save the current target curve data.

   - Touch the [Recall] button and select T-Curve1/2/3/Default to call the target curve data stored in it.

Center Stage Mode setting

In this mode, adjust the sound stage to the center of the car instead of in front of the driver.

* This setting is dedicated only for the driver seat. Sound balance is lost at non-driver seats.

- **Center Stage Mode**

  This toggle allows you to turn Center Stage Mode ON/OFF.
- **Steering Wheel Position**

  Select the Steering Wheel position.
- **Micro adjustment**

  Adjust the Stage position left or right.

FAQ

Q: Where can I download firmware update files?

A: Firmware update files for the main unit and controller can be downloaded from the Alpine website.

Documents / Resources

Auto EQ 2.0 Manual For PXE-C80-88/PXE-C60-60 //////ALPINE The screen being used is under development and may differ from the actual product. Les paramètres de l'écran de développement réponse et être différent du produit actualités. La pantalla utilizada está en fase de desarrollo y puede diferir del producto real. PX-CH-KP8	[APLINE PXE-C80-88,PXE-C60-60 Channel Hi-Res Sound Processor](#) [[pdf](#)] Instruction Manual PXE-C80-88, PXE-C60-60, PXE-C80-88 PXE-C60-60 Channel Hi-Res Sound Processor, PXE-C80-88 PXE-C60-60, Channel Hi-Res Sound Processor, Sound Processor

References

- [User Manual](#)

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