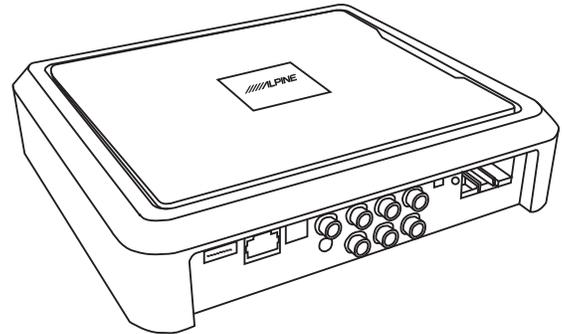


PXE-0850S

Advanced Digital Wireless Sound Processor Installation Manual



* The specified vehicles have been tested and have met compatibility specs at the time of testing. Compatibility is not guaranteed if the manufacturer has made production changes to the listed vehicles above.

⚠ Warning: Before you begin wiring, remove the ground wire from the negative terminal of the battery. Failing to do so can lead to electric shock, injury or damage to equipment.

Introduction

- Congratulations on purchasing the PXE-0850S. This installation manual is designed to take you through the installation of PXE-0850S. Please familiarize yourself with the owners manual and if you still have additional questions please call 1-800-TECH-101.

Note

- Design and specifications are subject to change without notice for improvement.

To Ensure Safe Use, Always Follow These Precautions

- The installation of this product requires specialized skills and experience. We recommend that you have the product installed by an Alpine authorized dealer.
- Before you use this product, be sure to carefully read this installation manual and the separate user's manual so that you can use the product correctly. Alpine Electronics bears no responsibility for problems that arise as a result of failure to follow the instructions in the manuals.
- This manual includes a number of symbols that are intended to help you use the product safely, to prevent harm to you and others, and to protect against damage to property. These symbols and their meanings are listed below. Make sure you fully understand these symbols before you begin reading the main text.

Explanations of Injury and Damage That May Result from Incorrect Use

| | |
|----------------|---|
| Warning | Ignoring the content marked by this indication and using the product incorrectly is expected to lead to death or serious injury. |
| Caution | Ignoring the content marked by this indication and using the product incorrectly is only expected to lead to injury or property damage. |

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Types of Precautions

| | |
|--|--|
|  Forbidden | Indicates actions that are forbidden (must not be performed) |
|  Forbidden | Indicates that disassembly is forbidden. |
|  Mandatory | Indicates actions that are mandatory (must be performed) |
|  Warning | Marks content that should receive your full attention. |

 **Warning**

Do not disassemble or modify the product. Doing so could lead to an accident, fire, or electric shock.


Forbidden

Store screws and other small objects where small children cannot reach them. If one of these small objects is swallowed, consult with a doctor immediately.



When replacing fuses, be sure to use fuses with the specified current rating. Failing to do so could lead to an accident or fire.

 
Forbidden Mandatory

Only connect the product to a 12 VDC negative ground car. Failing to do so could lead to an accident or fire.


Mandatory

Before you begin wiring, remove the ground wire from the negative terminal of the battery. Failing to do so could lead to electric shock or injury.



Do not cut the insulation on a cord and take power from another device. Doing so could lead to fire or electric shock.


Forbidden

Do not install the product in a location where it will obstruct the driver's forward view; interfere with the operation of the steering wheel, gearshift, or the like; or pose a threat to passengers. Doing so could lead to an accident or injury.


Forbidden

When making a hole in the vehicle body, be careful to avoid damaging pipes, the fuel tank, electrical wiring, and the like. This kind of damage could lead to an accident or fire.



When installing and grounding the product, do not use any of the bolts or nuts of the steering wheel, brakes, fuel tank, or the like. Doing so could make the brakes stop working or lead to fire.


Forbidden

Do not install the product near the passenger-side airbag. Doing so could interfere with the operation of the airbag and lead to an accident or injury.


Forbidden

Bundle cords so that they don't interfere with driving. Wrapping cords around the steering wheel, gearshift, brake pedal, or the like, could lead to an accident or damage equipment.



 **Caution**

Connect the product properly according to the instructions. Failing to do so could lead to fire or an accident.


Forbidden

Do not sandwich cords between the seat railing or allow them to touch protrusions. Resulting breaks or shorts could lead to electric shock or fire.



Do not block vents or heat sinks. Doing so could lead to fire or damage equipment.



Use the accessories according to the instructions, and attach them securely. Failing to do so could lead to an accident or damage equipment.


Forbidden

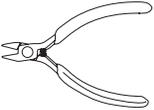
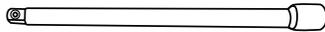
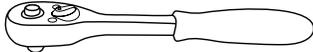
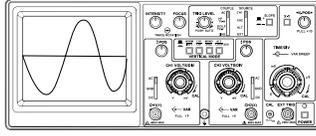
Do not install the product where it may be exposed to water or in a place with high levels of humidity or dust. Doing so could lead to fire or damage equipment.


Forbidden

The installation and wiring of this product requires specialized skills and experience. Have the product installed by an Alpine authorized dealer.

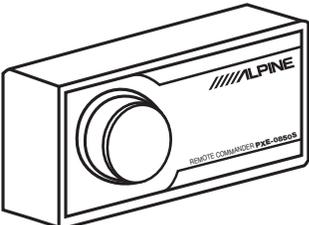
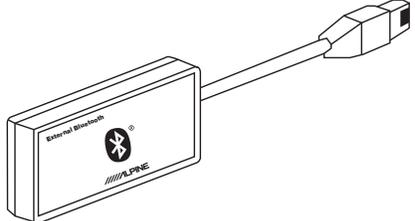
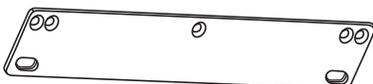
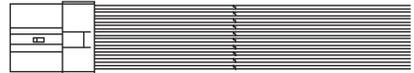
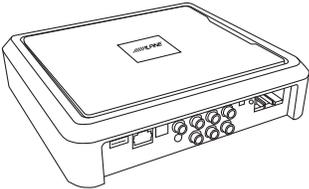


Tools Possibly Required (This Will Vary Depending On The Vehicle)

| | | | |
|---|---|---|---|
| Panel Removing Tool | Sockets | Torx Screwdriver | Power Drill |
|  |  |  |  |
| Wire Cutters | Extension | Phillips Screwdriver | Ratchet |
|  |  |  |  |
| Crimpers | Pliers | RTA | Oscilloscope |
|  |  |  |  |

Accessory List

Installation Kit Parts

| | | |
|---|--|---|
| Wired Controller | Bluetooth Adapter | USB 3.0 Cable |
|  |  |  |
| Speaker Harness x 2 | Stand Mount x 4 | High Level Input Connector |
|  |  |  |
| Processor | Screws x 10 | Screws x 4 |
|  |  |  |

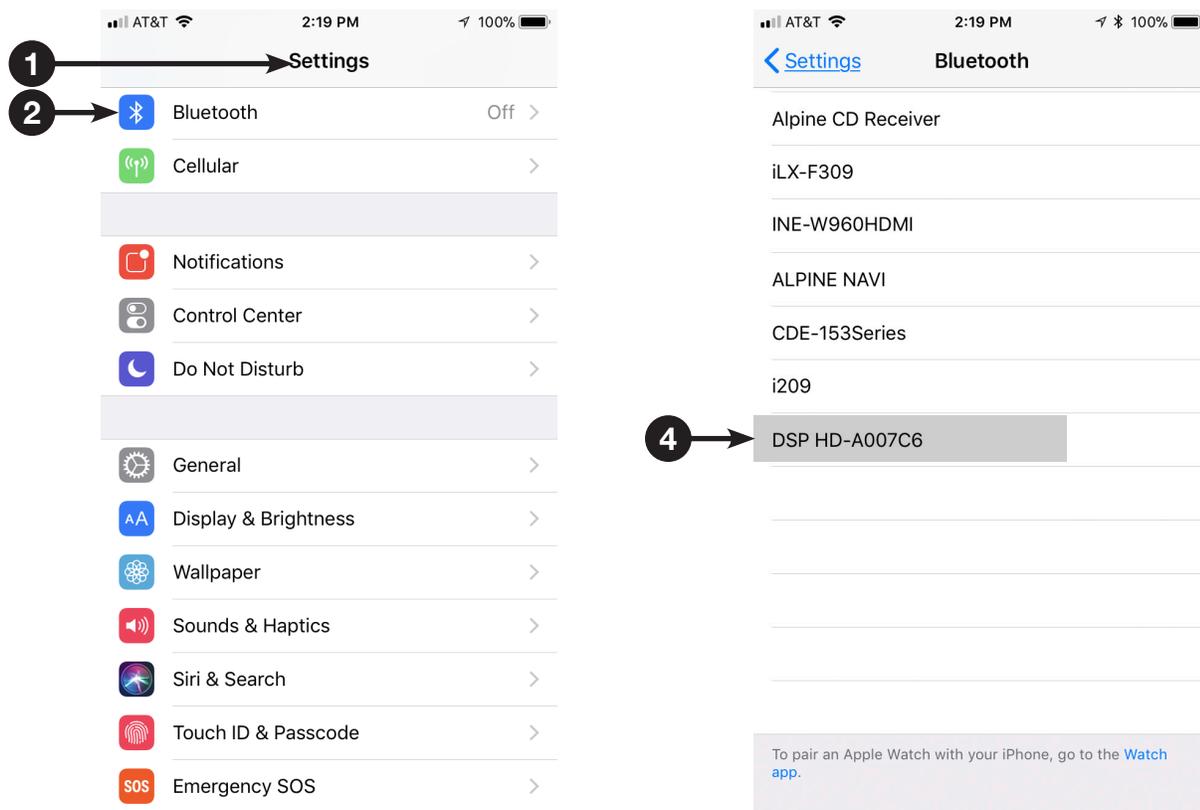
Download The App

- 1 For Android users the PXE-0850S app is available on the Google Play store. The name of the app is PXE-DSP-APP.
- 2 For iPhone users the PXE-0850S app is available through iTunes. The name of the app is PXE-DSP-APP.
- 3 The PC App is located on the Alpine web site in the Knowledge Center. Go to www.alpine-usa.com. Click on Support, then Knowledge Center, and type PXE-0850S in the search bar. Download the zip file, unzip, and double click on the app. The full link is here: <https://kb.alpine-usa.com/article/pxe-0850s-pc-application-software-for-windows.html>

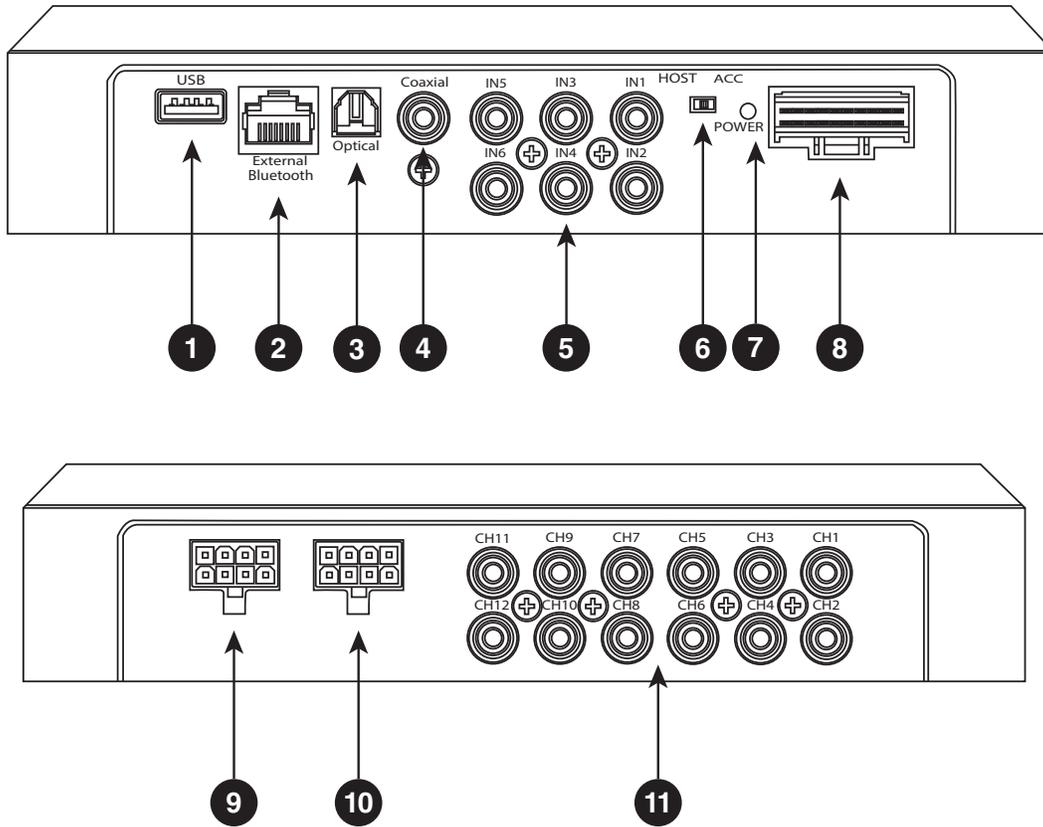
Pairing The Device

- 1 Open the settings menu of the smart device.
- 2 Go to the Bluetooth settings and make sure it is turned on.
- 3 Scan for devices.
- 4 The tablet or phone will find DSP-HD-AXXXXX. Click to connect to it.

Note: The light on the Bluetooth adapter will flash until a device has been paired. Once a device is paired it will remain steady.

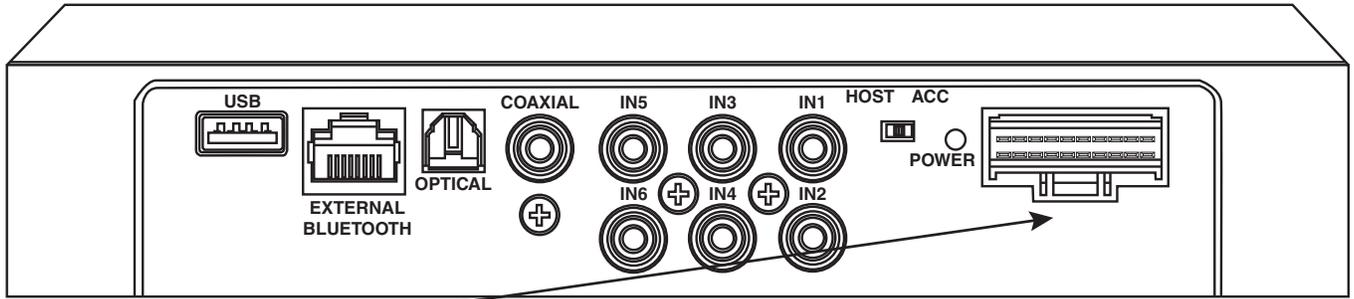


Component Locations

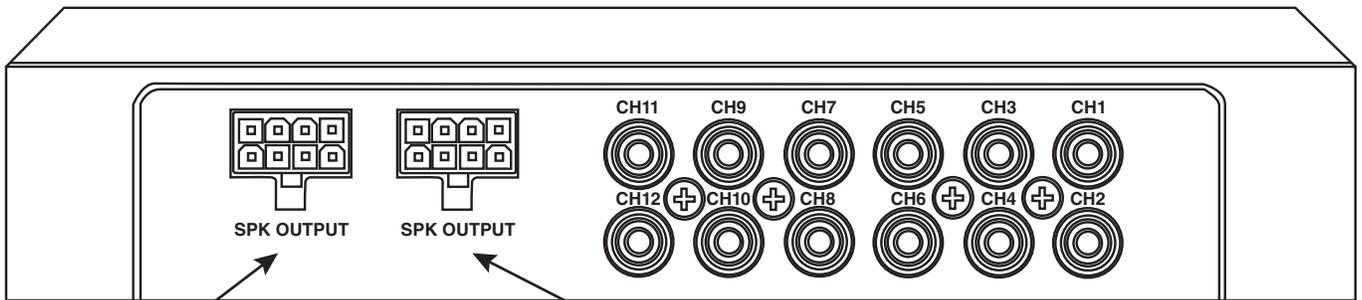


| | Component Name | Component Definition |
|--------|--------------------------|---|
| 1 | USB Input | The USB 3.0 cable is used to connect to a Windows PC to tune with software. The cable also has the connection for the wired controller. |
| 2 | External Bluetooth Input | The Bluetooth interface is used for streaming lossless music and for tuning with the phone app. After a phone is paired the indicator light turns on. |
| 3 | Optical Input | Optical Input. |
| 4 | Coaxial Input | Optical Coaxial Input. |
| 5 | RCA Inputs | 6 channels of low-level inputs. |
| 6 | Remote Input Switch | If ACC is selected then ACC will power on the processor. If HOST is selected the processor will turn on by signal sensing with the high level input. |
| 7 | Power Indicator Light | Power Indicator Light. |
| 8 | High Level Input Harness | Used to input speaker level signals up to 10W or 30V. |
| 9 & 10 | High Level Output | Each channel is rated at 18W RMS. |
| 11 | RCA Outputs | 6 RCA low level outputs to go to aftermarket amplifiers. |

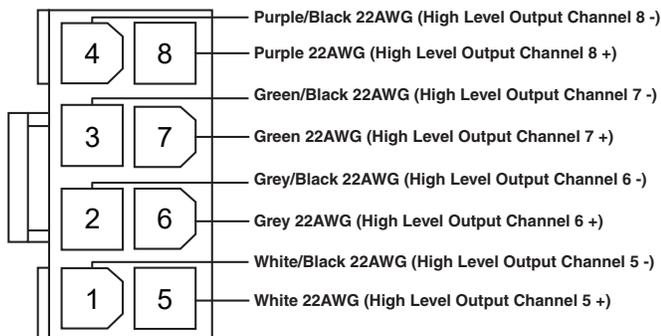
Wire Harness Pin Outs



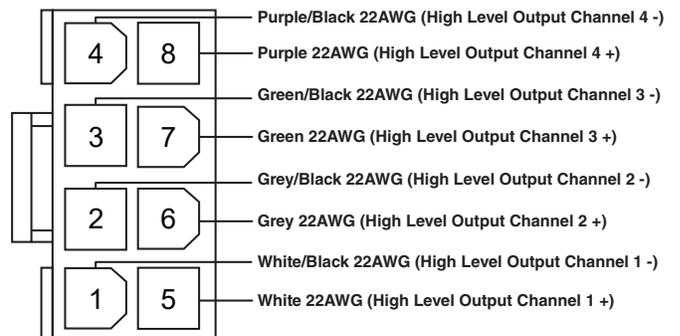
Main Harness



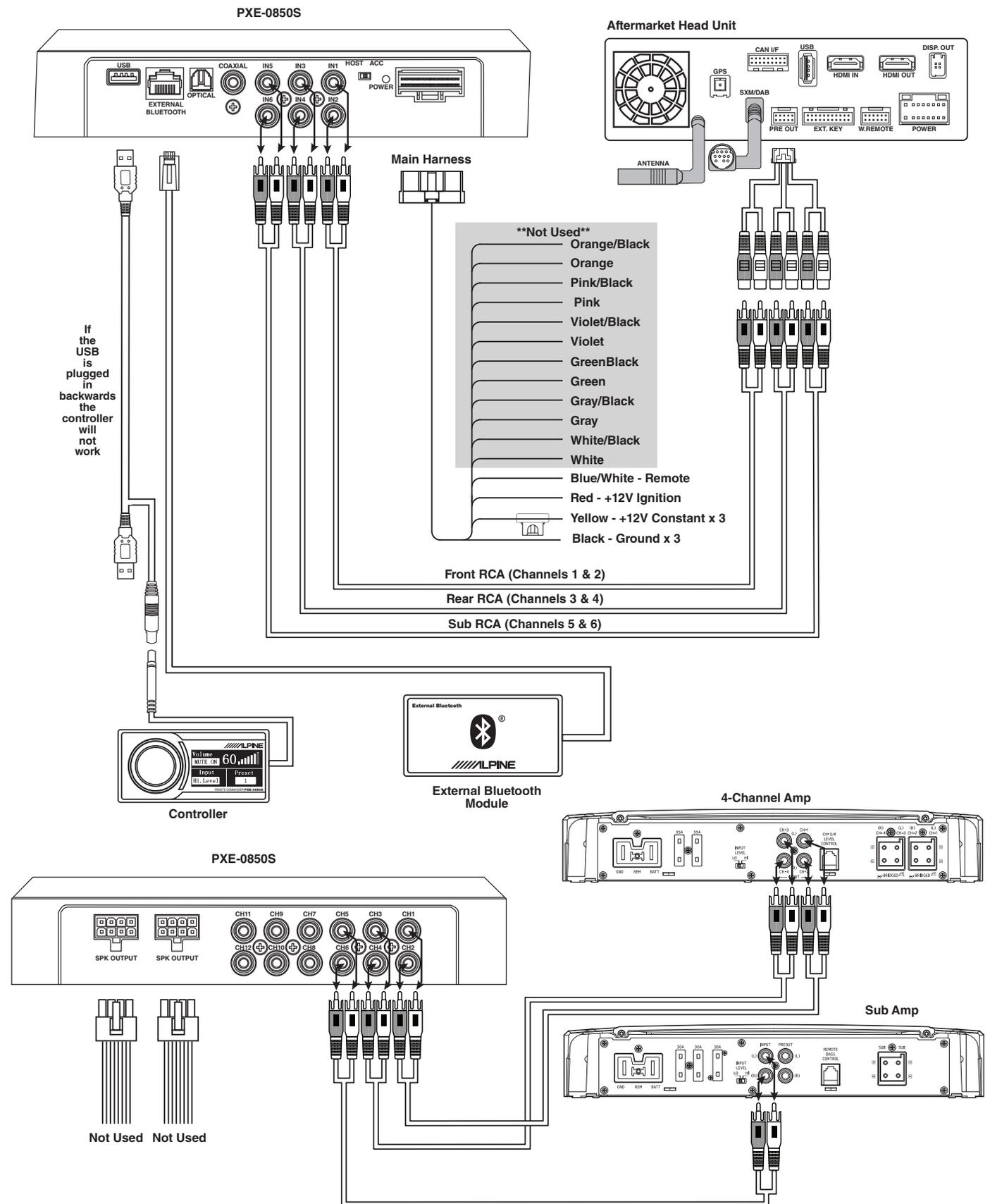
SPK Output



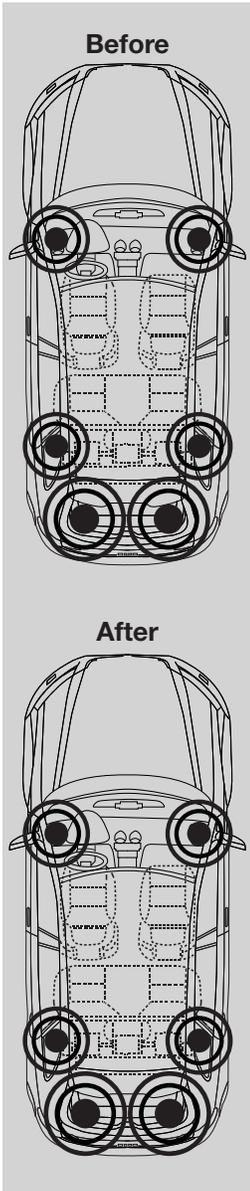
SPK Output



Installation Example- 6-Channel In/6-Channel Out (With Aftermarket Head Unit)



Mixer Setup- 6-Channel In/6-Channel Out (With Aftermarket Head Unit)



Channel 1

Channel 2

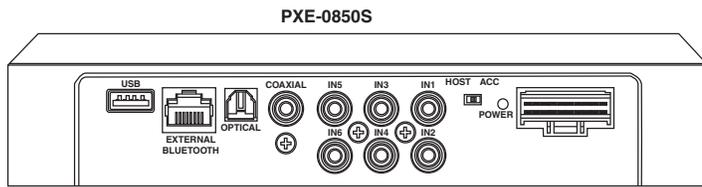
Channel 3

Channel 4

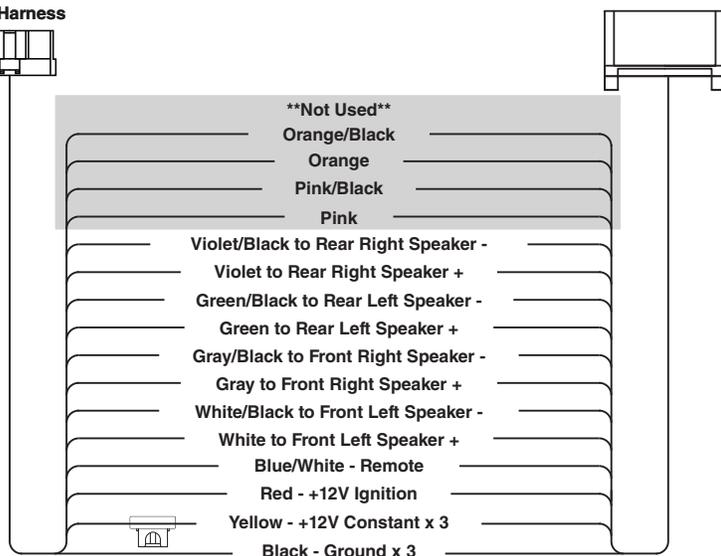
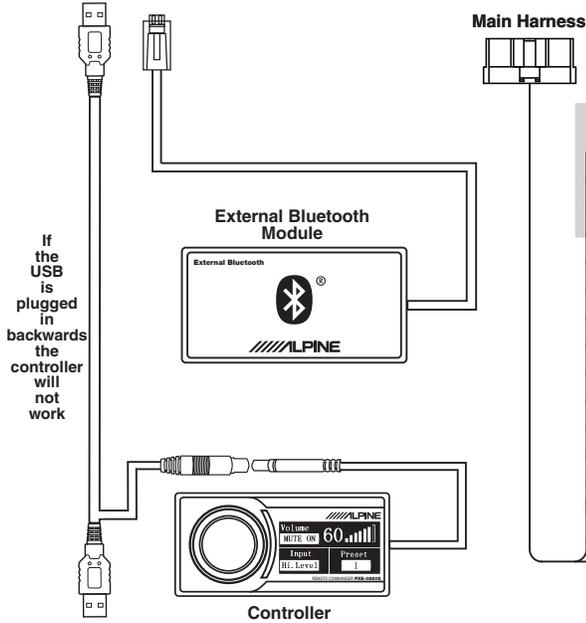
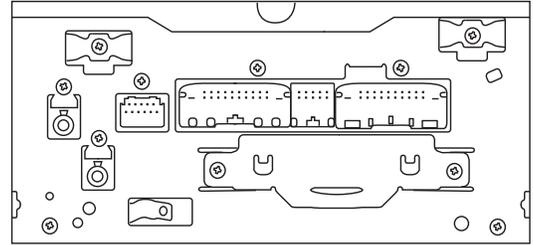
Channel 5

Channel 6

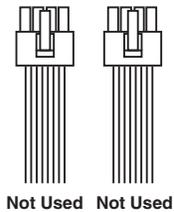
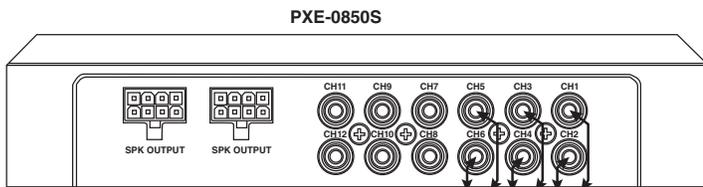
Installation Example- 4-Channel In/6-Channel Out (With OEM Head Unit)



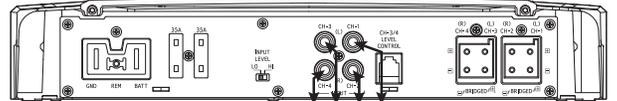
OEM Head Unit



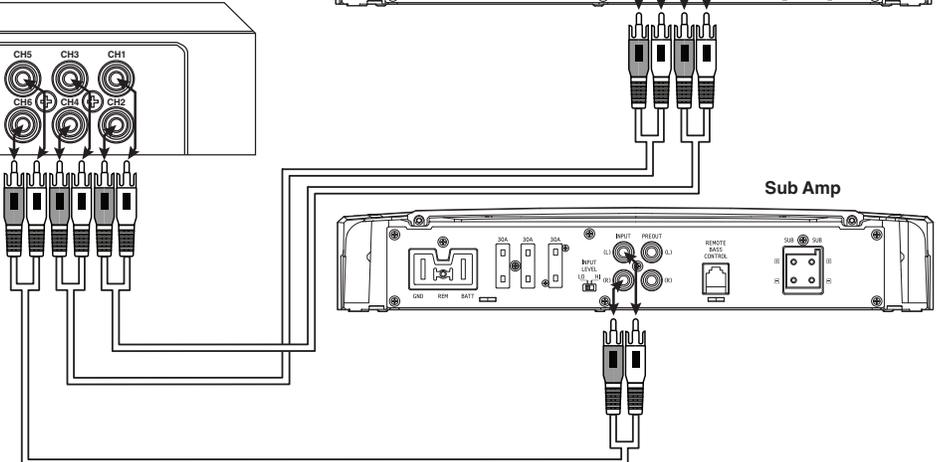
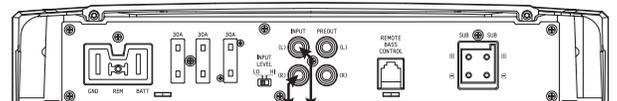
Note: These are all full-range outputs from the OEM head unit.



4-Channel Amp

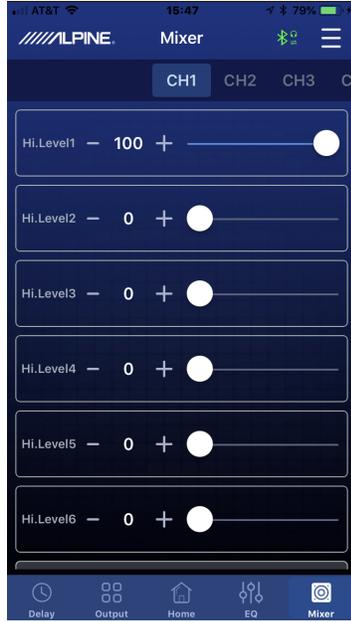


Sub Amp

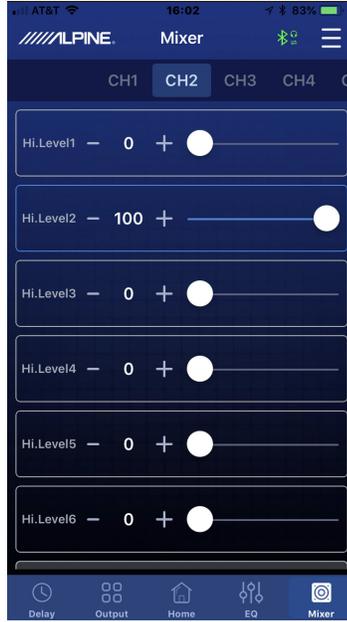


Mixer Setup- 4-Channel In/6-Channel Out (With OEM Head Unit)

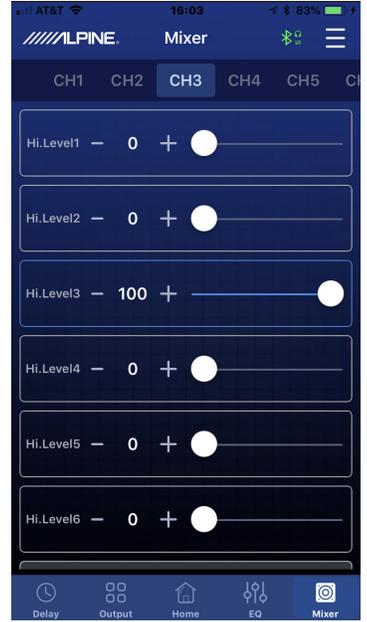
Channel 1



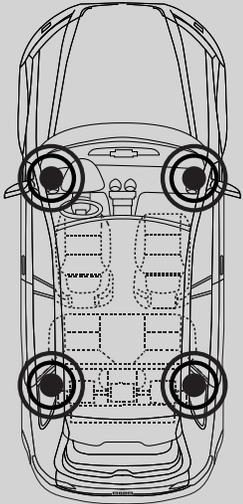
Channel 2



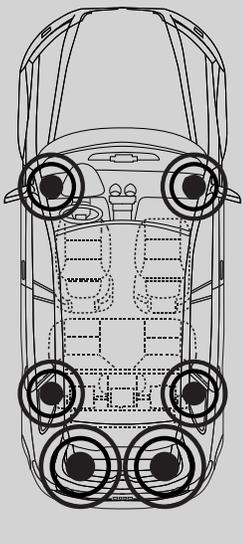
Channel 3



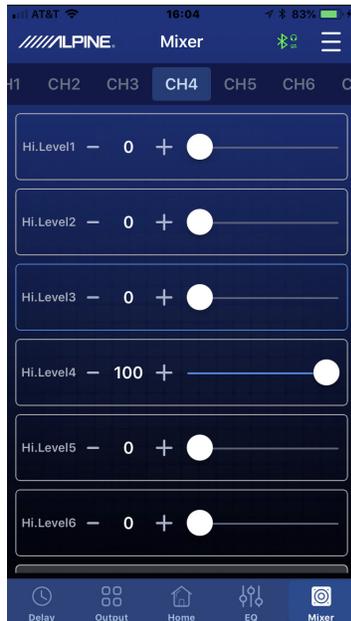
Before



After



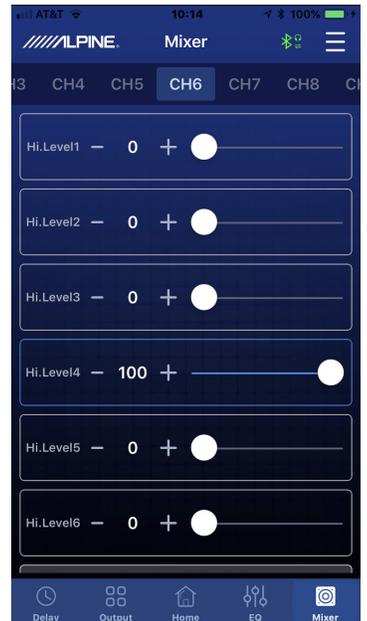
Channel 4



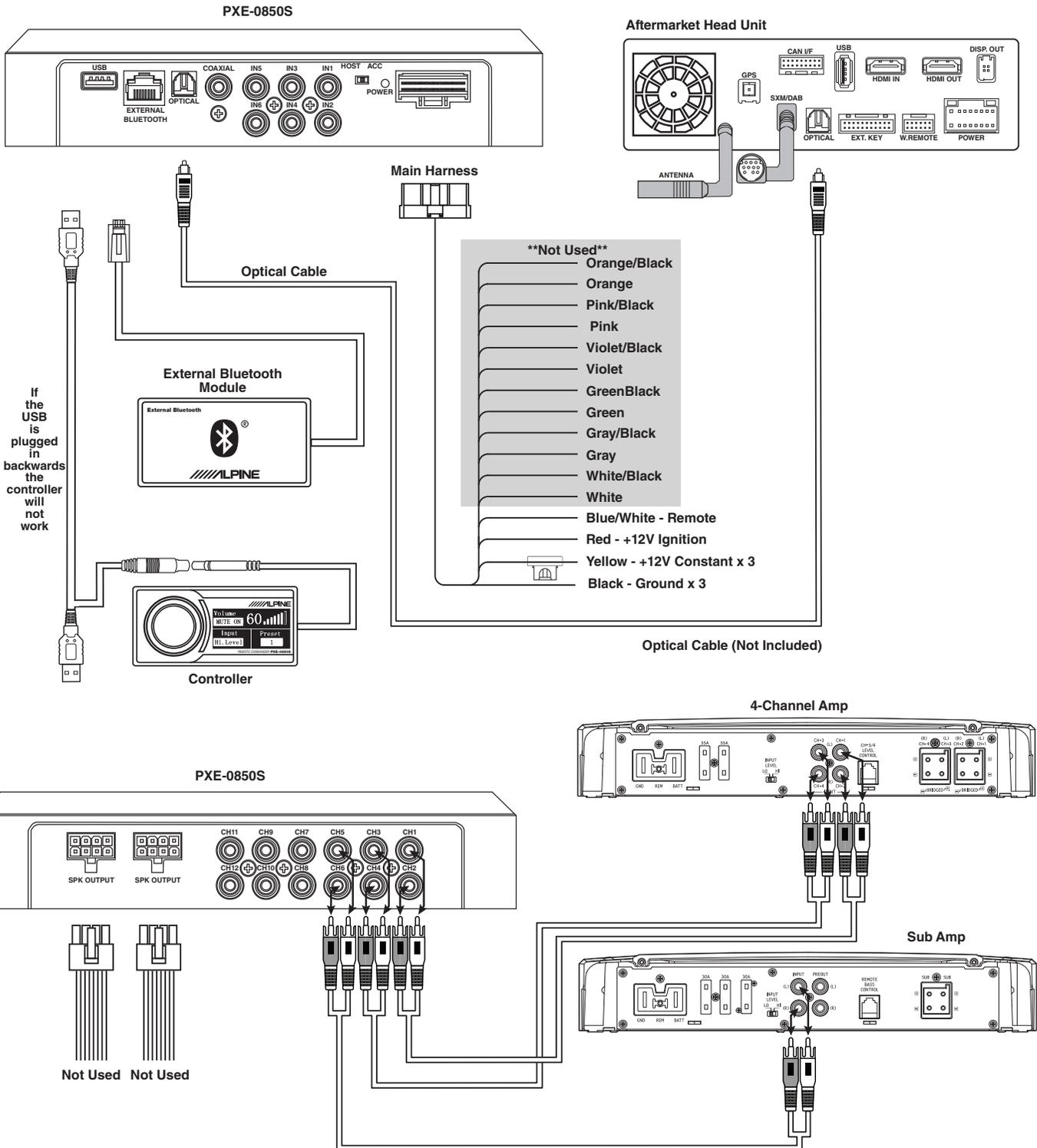
Channel 5



Channel 6



Installation Example- Digital In/6-Channel Out Using Aftermarket Amplifiers (With Aftermarket Head Unit)

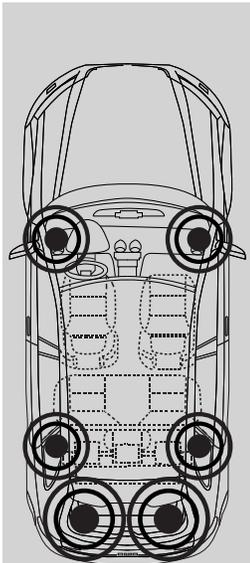
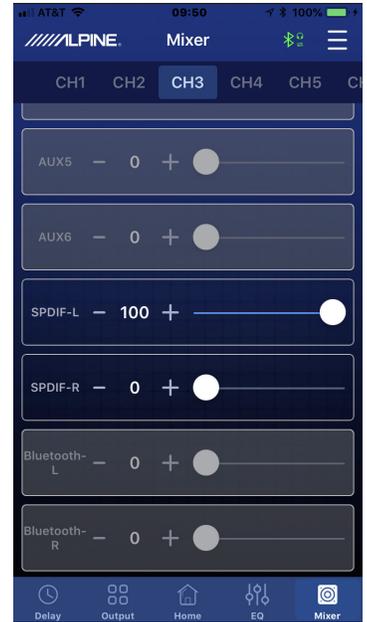


Mixer Setup- Digital In/6-Channel Out Using Aftermarket Amplifiers (With Aftermarket Head Unit)

Channel 1

Channel 2

Channel 3

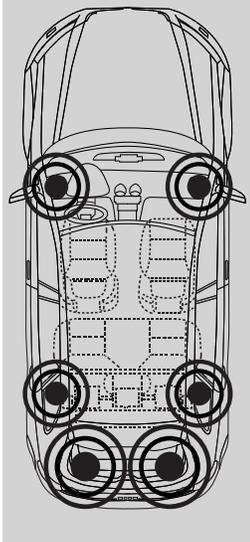
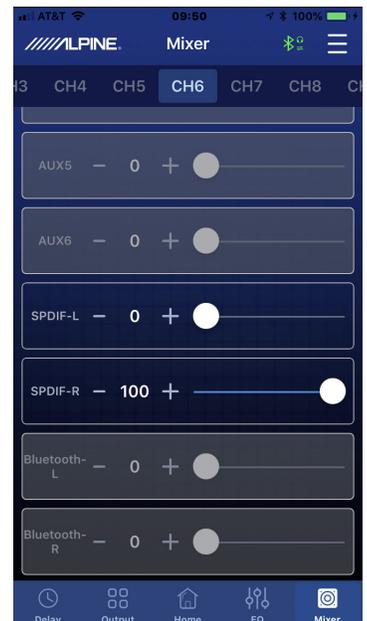
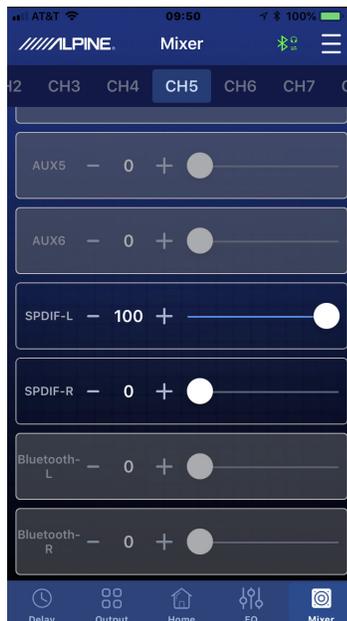
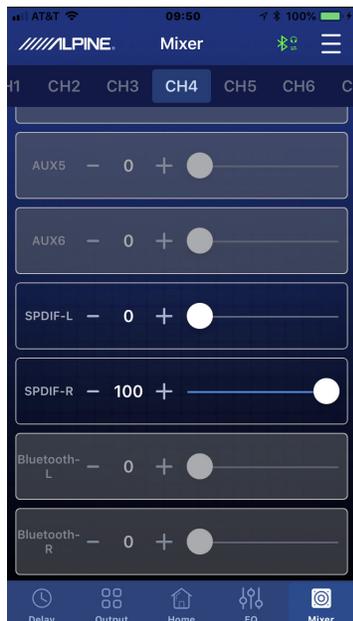


After

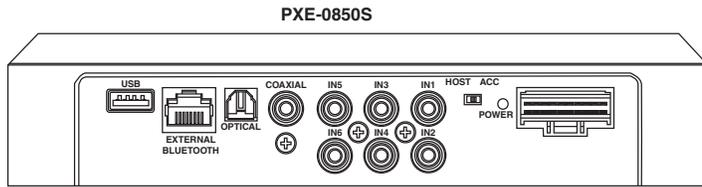
Channel 4

Channel 5

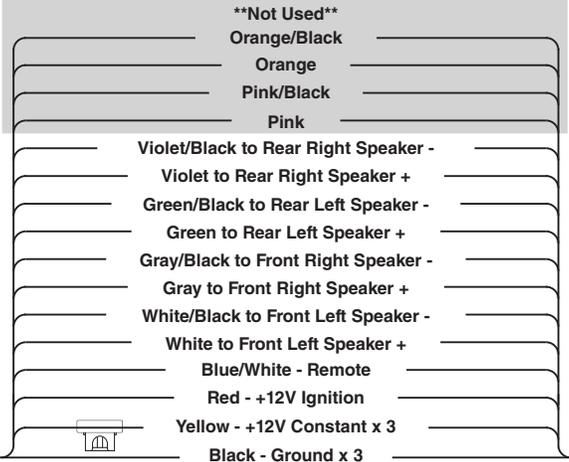
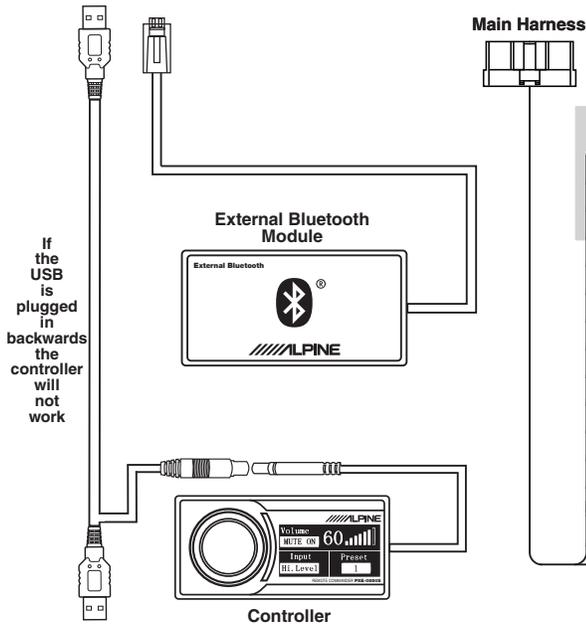
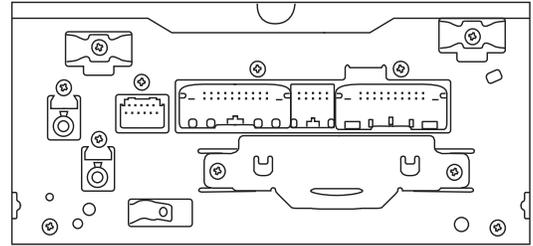
Channel 6



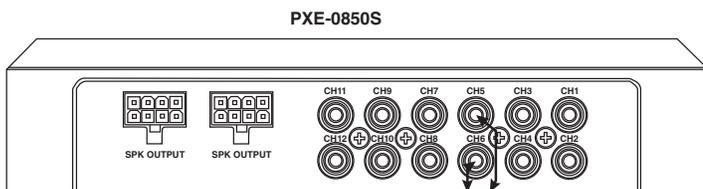
Installation Example- 4-Channel In/6-Channel Out Using High Level Out (With OEM Head Unit)



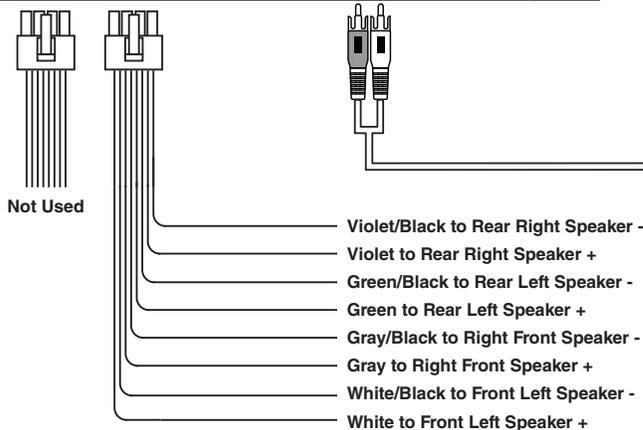
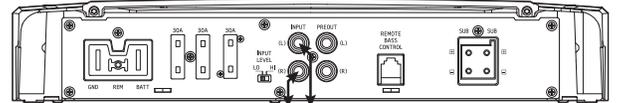
OEM Head Unit



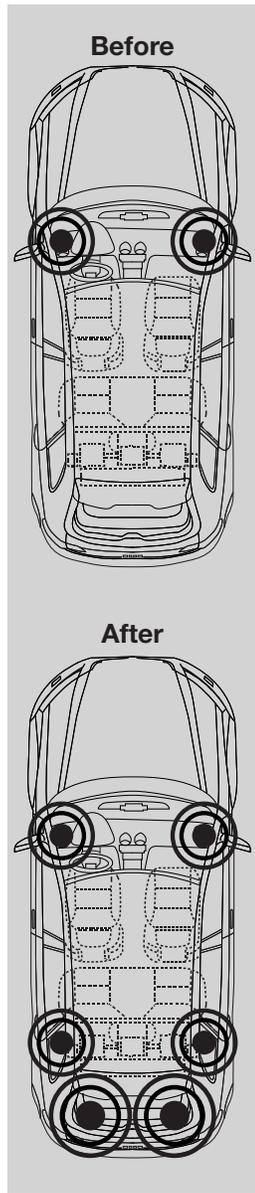
Note: These are all full-range outputs from the OEM head unit.



Sub Amp



Mixer Setup- 4-Channel In/6-Channel Out Using High Level Out (With OEM Head Unit)



Channel 1

ALPINE Mixer
CH1 CH2 CH3 CH4 CH5 CH6

Hi.Level1 - 100 +

Hi.Level2 - 0 +

Hi.Level3 - 0 +

Hi.Level4 - 0 +

Hi.Level5 - 0 +

Hi.Level6 - 0 +

Delay Output Home EQ Mixer

Channel 2

ALPINE Mixer
CH1 CH2 CH3 CH4 CH5 CH6

Hi.Level1 - 0 +

Hi.Level2 - 100 +

Hi.Level3 - 0 +

Hi.Level4 - 0 +

Hi.Level5 - 0 +

Hi.Level6 - 0 +

Delay Output Home EQ Mixer

Channel 3

ALPINE Mixer
CH1 CH2 CH3 CH4 CH5 CH6

Hi.Level1 - 0 +

Hi.Level2 - 0 +

Hi.Level3 - 100 +

Hi.Level4 - 0 +

Hi.Level5 - 0 +

Hi.Level6 - 0 +

Delay Output Home EQ Mixer

Channel 4

ALPINE Mixer
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8

Hi.Level1 - 0 +

Hi.Level2 - 0 +

Hi.Level3 - 0 +

Hi.Level4 - 100 +

Hi.Level5 - 0 +

Hi.Level6 - 0 +

Delay Output Home EQ Mixer

Channel 5

ALPINE Mixer
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8

Hi.Level1 - 0 +

Hi.Level2 - 0 +

Hi.Level3 - 100 +

Hi.Level4 - 100 +

Hi.Level5 - 0 +

Hi.Level6 - 0 +

Delay Output Home EQ Mixer

Channel 6

ALPINE Mixer
CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8

Hi.Level1 - 0 +

Hi.Level2 - 0 +

Hi.Level3 - 0 +

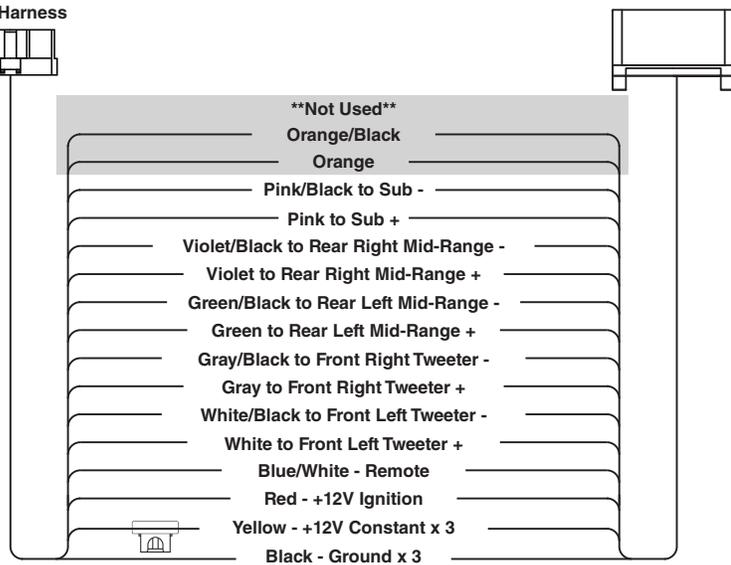
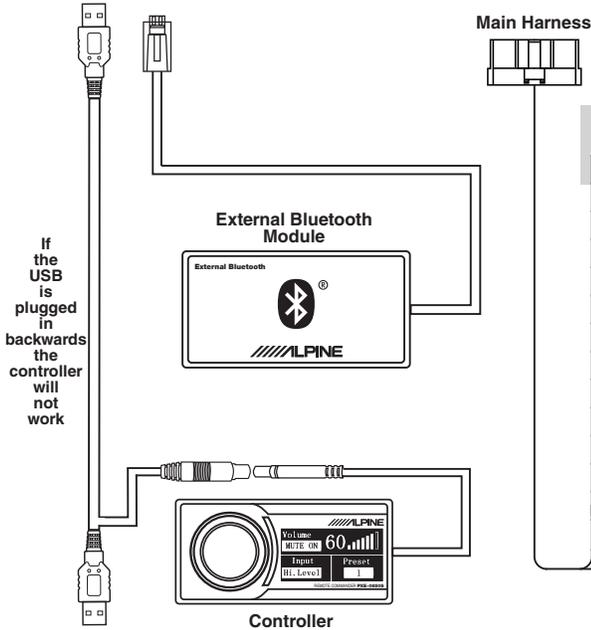
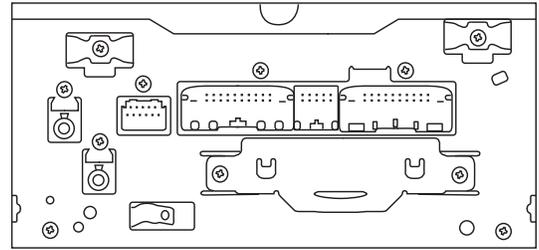
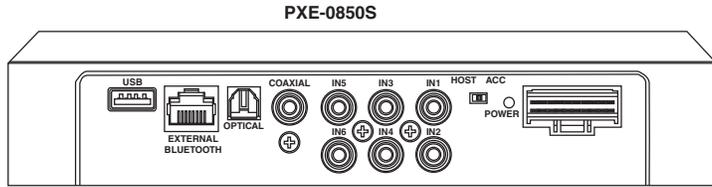
Hi.Level4 - 100 +

Hi.Level5 - 0 +

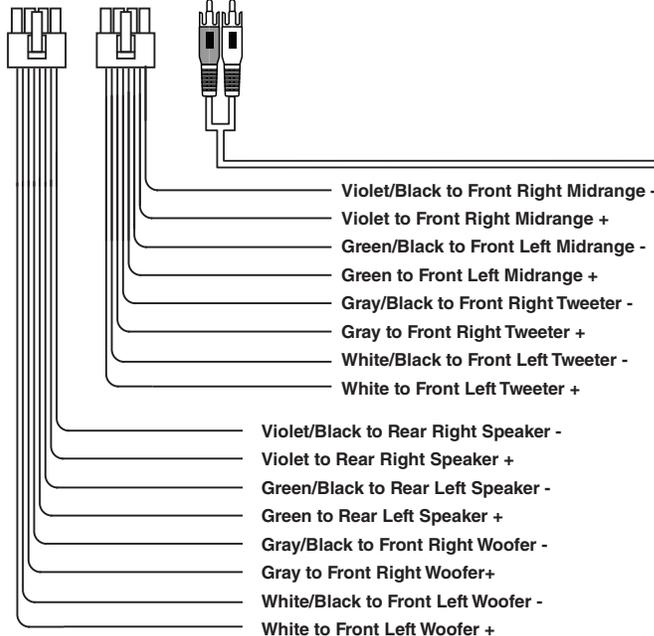
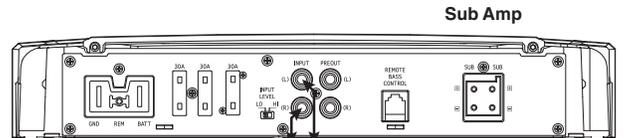
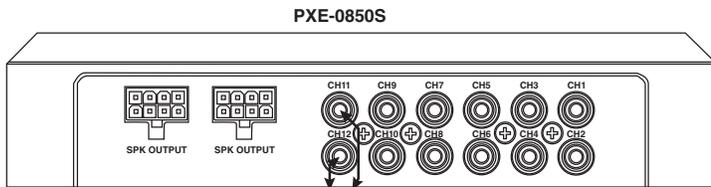
Hi.Level6 - 0 +

Delay Output Home EQ Mixer

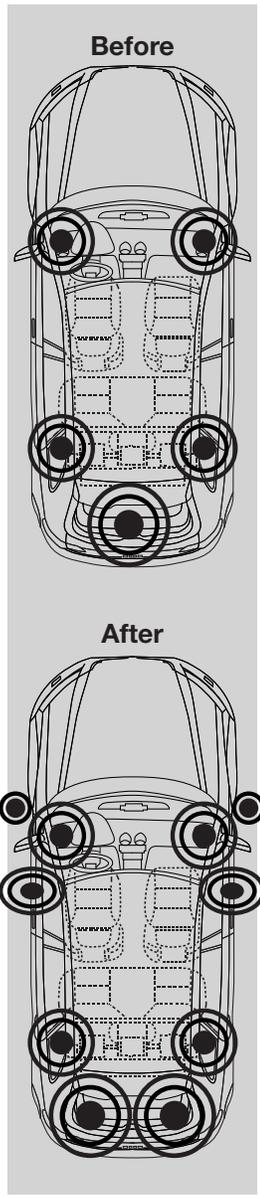
Installation Example- 5-Channel In/10-Channel Out Using High Level Out (With OEM Head Unit)



Note: These are all crossed over outputs from the OEM head unit.



Mixer Setup- 5-Channel In/10-Channel Out Using High Level Out (With OEM Head Unit)



Channel 1

ALPINE Mixer CH1

Hi.Level1 - 50 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 50 + [Slider]

Hi.Level4 - 0 + [Slider]

Hi.Level5 - 0 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 2

ALPINE Mixer CH2

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 50 + [Slider]

Hi.Level3 - 0 + [Slider]

Hi.Level4 - 50 + [Slider]

Hi.Level5 - 0 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 3

ALPINE Mixer CH3

Hi.Level1 - 33 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 33 + [Slider]

Hi.Level4 - 0 + [Slider]

Hi.Level5 - 33 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 4

ALPINE Mixer CH4

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 33 + [Slider]

Hi.Level3 - 0 + [Slider]

Hi.Level4 - 33 + [Slider]

Hi.Level5 - 33 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 5

ALPINE Mixer CH5

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 50 + [Slider]

Hi.Level4 - 0 + [Slider]

Hi.Level5 - 50 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 6

ALPINE Mixer CH6

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 0 + [Slider]

Hi.Level4 - 50 + [Slider]

Hi.Level5 - 50 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 7

ALPINE Mixer CH7

Hi.Level1 - 33 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 33 + [Slider]

Hi.Level4 - 0 + [Slider]

Hi.Level5 - 33 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 8

ALPINE Mixer CH8

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 33 + [Slider]

Hi.Level3 - 0 + [Slider]

Hi.Level4 - 33 + [Slider]

Hi.Level5 - 33 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 9

ALPINE Mixer CH9

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 33 + [Slider]

Hi.Level4 - 33 + [Slider]

Hi.Level5 - 33 + [Slider]

Hi.Level6 - 0 + [Slider]

Channel 10

ALPINE Mixer CH10

Hi.Level1 - 0 + [Slider]

Hi.Level2 - 0 + [Slider]

Hi.Level3 - 33 + [Slider]

Hi.Level4 - 33 + [Slider]

Hi.Level5 - 33 + [Slider]

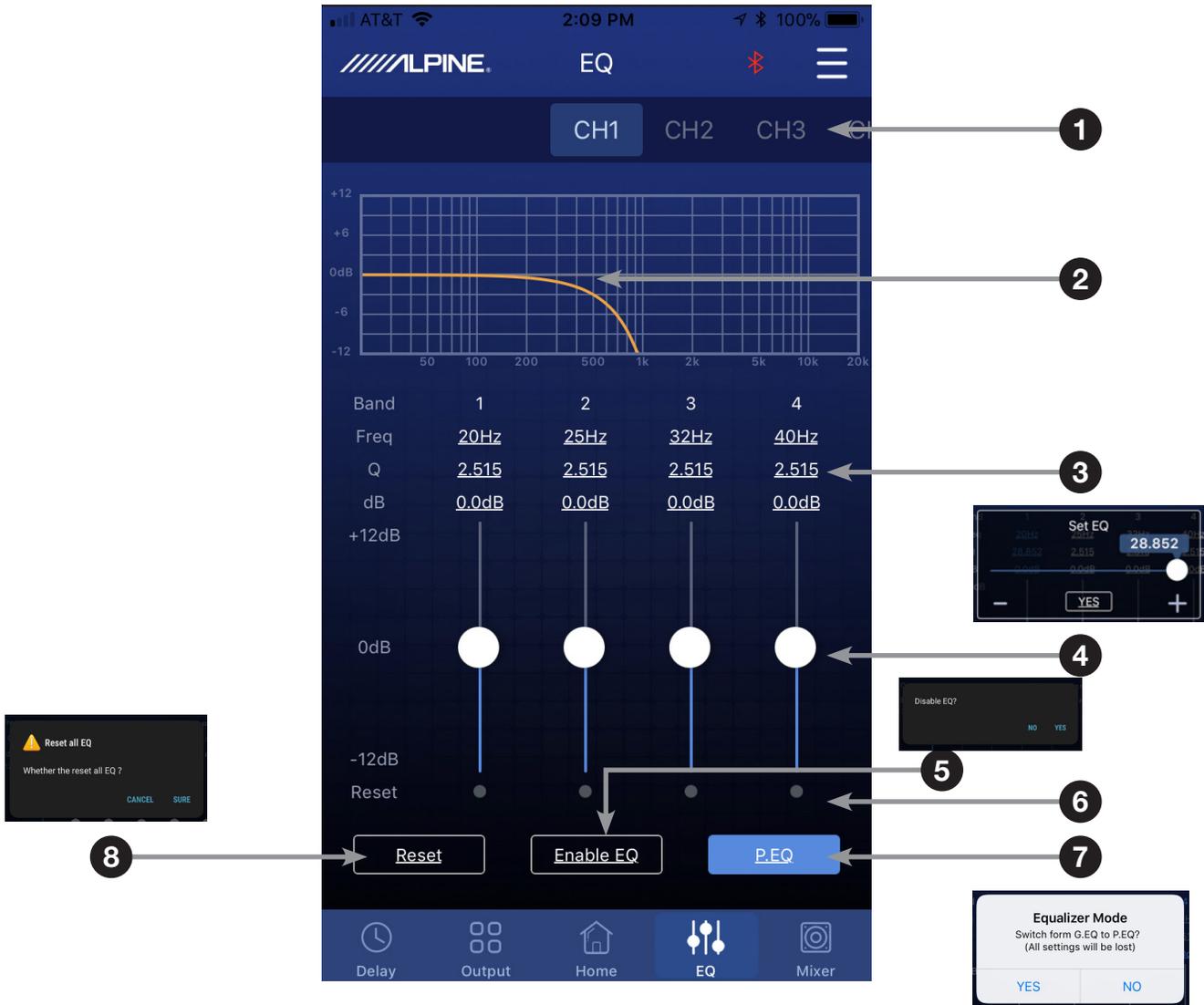
Hi.Level6 - 0 + [Slider]

Mobile Phone App Instructions- Home Screen



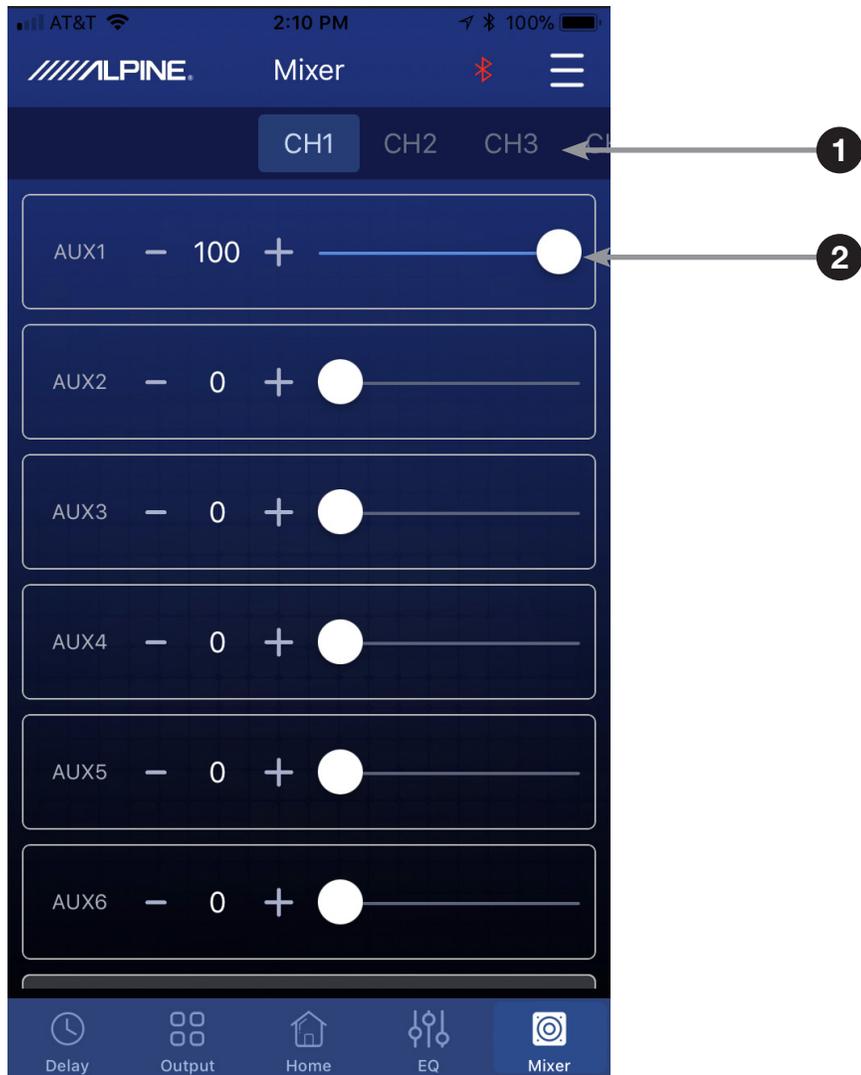
| | | |
|---|-----------------------|---|
| 1 | Lock Button | Create a 6 digit password to encrypt Delay, Output, EQ, and Mixer functions. |
| 2 | Connections Indicator | If the Bluetooth icon is red then there is no phone paired. If the icon is green that indicates a phone is currently paired. If a phone has previously been paired then just start the app and the icon will turn green. Pressing on the icon will allow selection of streaming audio and data operation. |
| 3 | Files Tab | User is able to Save, Share, and Load presets; along with viewing the software version. |
| 4 | Source Button | Select input source (Hi-level, Aux, Bluetooth, and S/PDIF). |
| 5 | Preset Buttons | Store and recall up to 6 preset sound settings. |
| 6 | Mute Button | Mutes the audio. |
| 7 | Master Volume | Adjusts the system volume up and down. |
| 8 | Tuning Interface | Switches between the app tuning screens. |

Mobile Phone App Instructions- EQ



| | | |
|---|--------------------------|--|
| 1 | Output Channel | The 12 output channels can be selected by sliding left or right. |
| 2 | EQ Curve | Displays the current curve of the EQ adjustments. |
| 3 | Frequency, Q Value, Gain | Adjust the Frequency, Q-Factor, and Level. Note: Q and Frequency can only be adjusted when using the Parametric EQ. Only level can be adjusted in Graphic EQ mode. |
| 4 | Gain | Slide up or down to increase or decrease the gain between -12dB and +12dB. |
| 5 | Enable/Disable EQ | Press to turn the EQ settings on or off. |
| 6 | Band On/Off | Turns the EQ band on or off. |
| 7 | P. EQ/ G. EQ Mode | Selects either the Parametric EQ mode or the Graphic EQ mode. Switching the mode will result in a loss of all settings. |
| 8 | Reset EQ | Reset the EQ settings. |

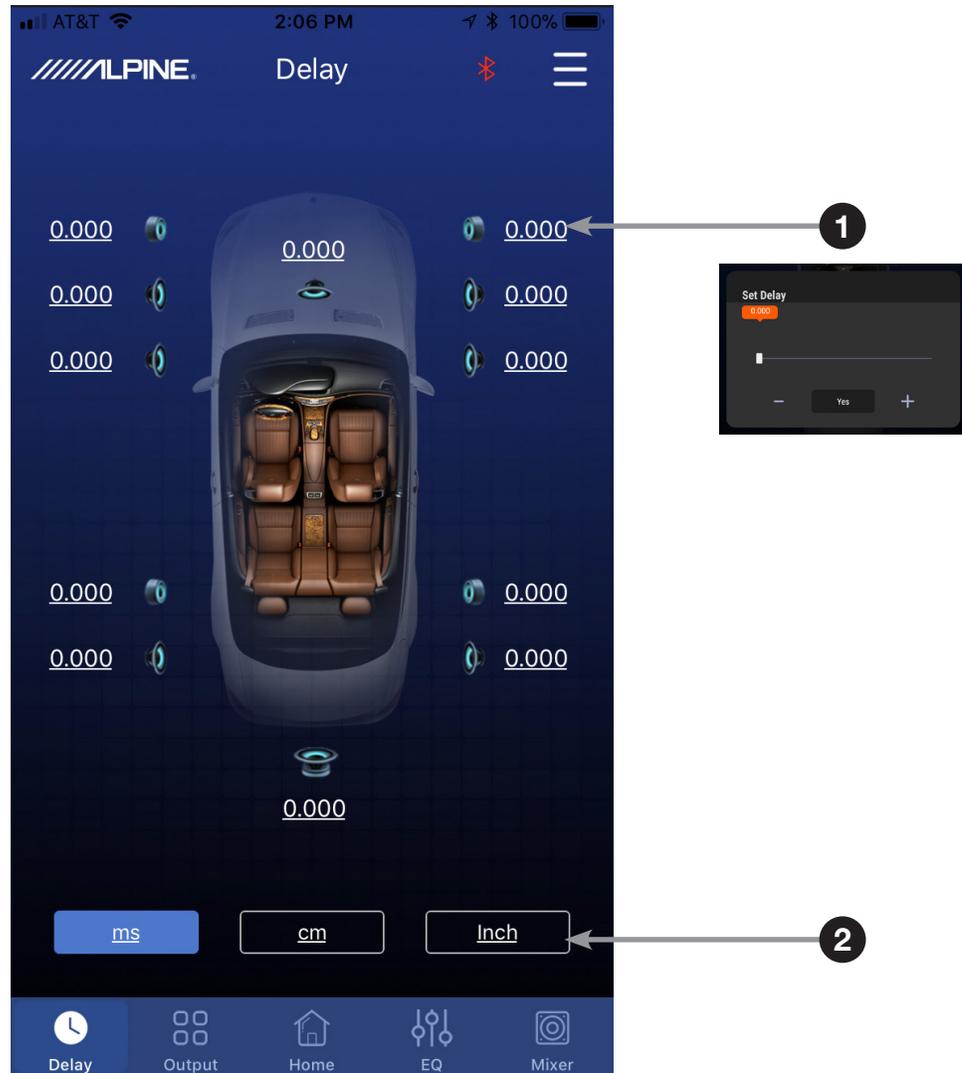
Mobile Phone App Instructions- Mixer



| | | |
|---|---------------|---|
| 1 | Mixer Channel | The 12 channels for mixing can be selected by sliding left or right. Matrix mixing allows routing any of the 6 High or Low Level inputs to any of the 12 Low Level or 8 High Level (25w) outputs. |
| 2 | Input Level | Adjust the slider left to right to move from 0 to 100% of the signal to mix in from that specific channel. |

Note: It is highly recommended that the total for one channel equal 100 to prevent clipping.

Mobile Phone App Instructions- Delay



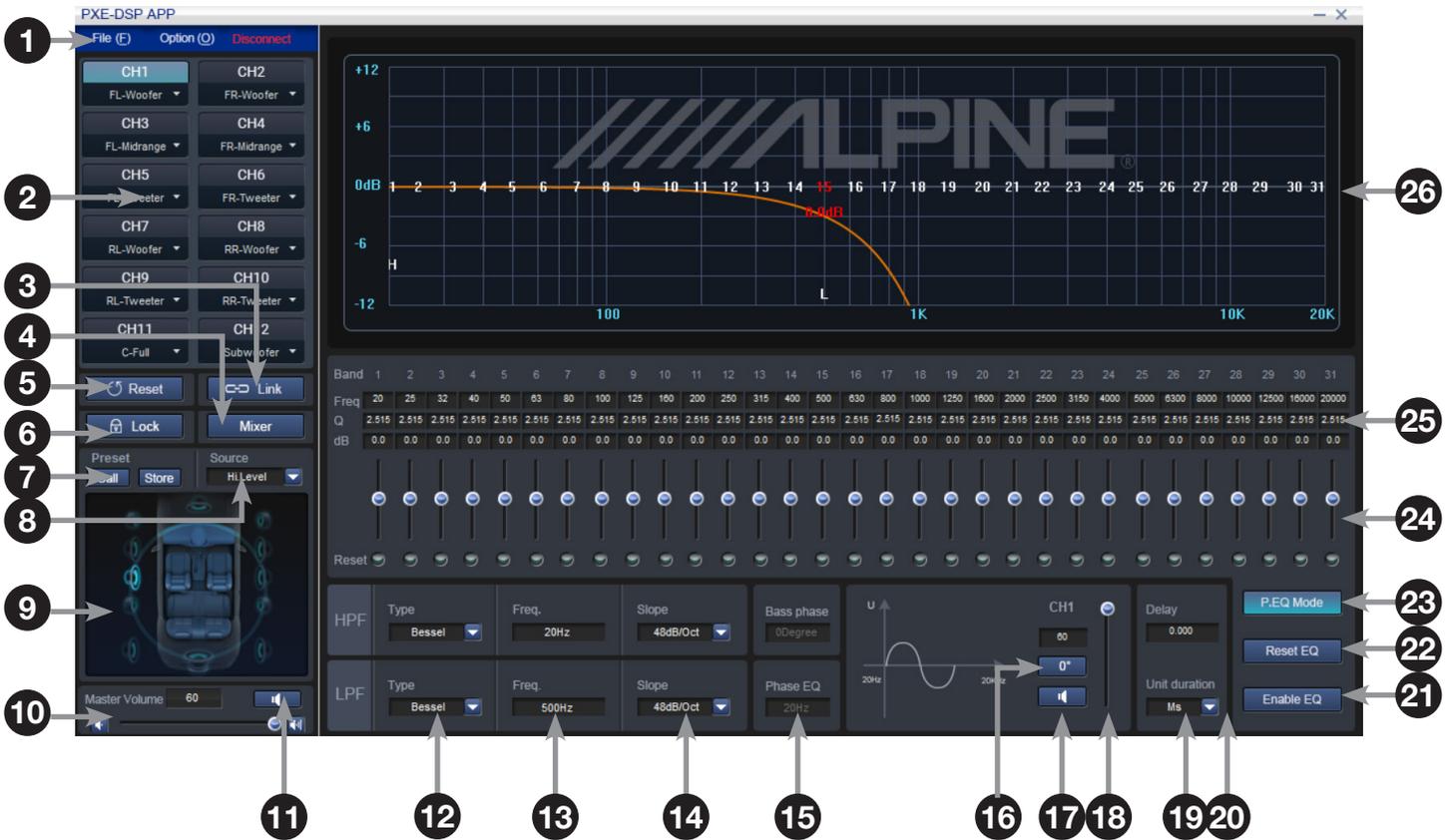
| | | |
|---|----------------|--|
| 1 | Speaker Select | Tap the speaker icon of each channel to select the channel to delay. A slider will pop up to enter the value of the delay. |
| 2 | Delay Units | Select between Milliseconds, Centimeters, and Inches as the increment to adjust the delay. |

Mobile Phone App Instructions- Output



| | | |
|----|---------------------|--|
| 1 | Channel Selection | The 12 output channels can be selected by swiping left or right. |
| 2 | Filter Type | Select between 3 filter types: Linkwitz-Riley, Bessel, and Butterworth. |
| 3 | Crossover Frequency | Select the crossover frequency (between 20Hz & 20kHz). |
| 4 | Slope Range | Select the crossover slope (12dB, 18dB, 24dB, 30dB, 36dB, 42dB, or 48dB). |
| 5 | Channel Output | Adjust Channel Output levels between 0-60. |
| 6 | Channel Type | Select the type of speaker being used. This will bring up a popup menu that gives every speaker type. |
| 7 | Link Tuning | Press to select to combine the data for the left and right channels. Select method to copy from left to right or from the right to left. |
| 8 | Reset | Select "All" to clear out all settings. Select "Default" to restore to factory default values. |
| 8 | Channel Mute | Press to mute the selected channel. |
| 10 | Channel Phase | Sets the phase from 0 to 180. |

PC App Overview



| | | |
|----|----------------------------|--|
| 1 | File, Option, Connect Tabs | File- load or save presets Options- Not used Connect- Plug in USB to PC and press "Connect" to connect to the PXE-0850S. This will show "Disconnected" when the USB is not plugged in. |
| 2 | Output Channels | The 12 output channels can be selected and configured. |
| 3 | Link | Press to select to combine the data for the left and right channels. Select method to copy from left to right or from the right to left. |
| 4 | Mixer | Select to show the mixer panel. The following page shows this in detail. |
| 5 | Reset | Select "All" to clear out all settings. Select "Default" to restore to factory default values. |
| 6 | Lock | Create a 6 digit password to encrypt Delay, Output, EQ, and Mixer functions. |
| 7 | Preset | Select the type of speaker being used. |
| 8 | Source | Select input source (Hi-level, Aux, Bluetooth, and S/PDIF). |
| 9 | Output Channels | Press the speaker to select on of the output channels from 1. |
| 10 | Volume Slider | Adjusts the system volume up and down. |
| 11 | Mute | Mutes the audio. |
| 12 | Filter Type | Select between 3 filter types: Linkwitz-Riley, Bessel, and Butterworth |
| 13 | Crossover Frequency | Select the crossover frequency (between 20Hz & 20kHz). |
| 14 | Slope Range | Select the crossover slope (12dB, 18dB, 24dB, 30dB, 36dB, 42dB, or 48dB). |
| 15 | Bass Phase/Phase EQ | Not Used. |

PC App Overview Continued

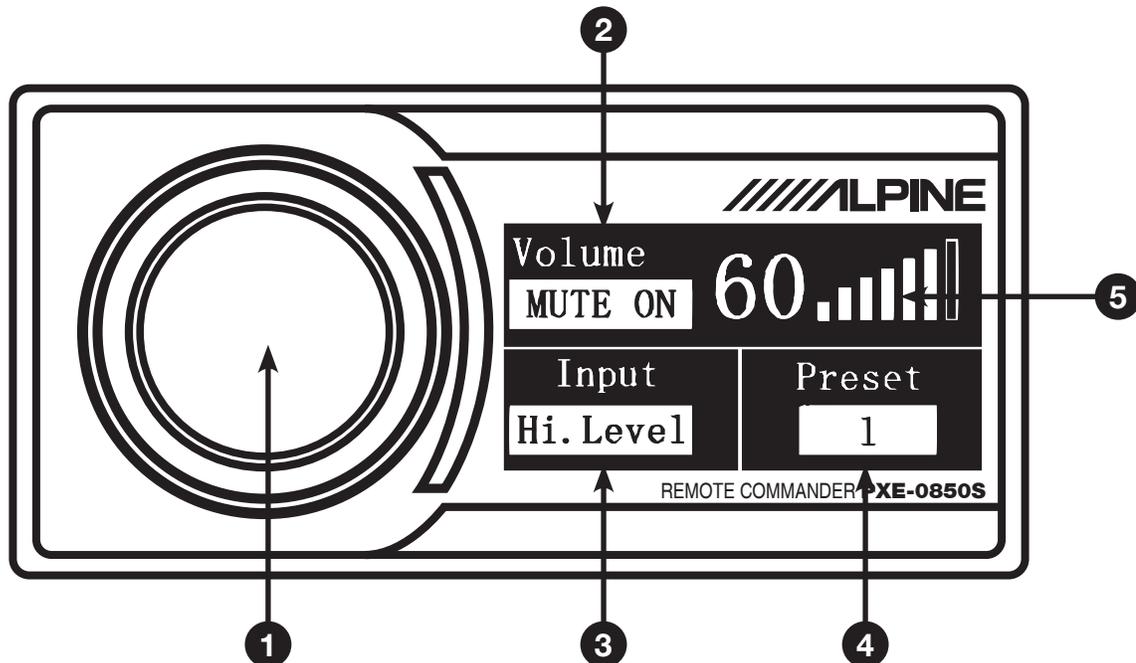
| | | |
|----|--------------------------|--|
| 16 | Channel Phase | Sets the phase from 0 to 180. |
| 17 | Channel Mute | Press to mute the selected channel. |
| 18 | Channel Output | Adjust Channel Output levels between 0-60. |
| 19 | Delay Units | Select between Milliseconds, Centimeters, and Inches as the increment to adjust the delay. |
| 20 | Delay Time | Enter the value of the channel delay. |
| 21 | Enable/Disable EQ | Press to turn the EQ settings on or off. |
| 22 | Reset EQ | Reset the EQ settings. |
| 23 | P. EQ/ G. EQ Mode | Selects either the Parametric EQ mode or the Graphic EQ mode. Switching the mode will result in a loss of all settings. |
| 24 | Gain | Slide up or down to increase or decrease the gain between -12dB and +12dB. |
| 25 | Frequency, Q Value, Gain | Adjust the Frequency, Q-Factor, and Level. Note: Q and Frequency can only be adjusted when using the Parametric EQ. Only level can be adjusted in Graphic EQ mode. |
| 26 | EQ Curve | Displays the current curve of the EQ adjustments. |

Mixer Adjustment

The screenshot shows the PXE-DSP APP interface. On the left, there is a list of 12 channels (CH1-CH12) with dropdown menus for selecting speaker types (e.g., FL-Woofer, FR-Woofer, etc.). Below this list are buttons for 'Reset', 'Link', 'Lock', and 'EQ'. At the bottom left, there is a 'Preset' section with 'Call' and 'Store' buttons, and a 'Source' dropdown set to 'HiLevel'. A speaker layout diagram is visible at the bottom left. On the right, the 'Mix & mixing setting' panel shows various input levels (Hi.Level1-6, AUX1-6, SPDIF-L/R, Bluetooth-L/R) with sliders and volume icons. A red circle '1' points to the channel selection list, and a red circle '2' points to the Hi.Level1 mixer control.

| | | |
|---|---------------------|--|
| 1 | Channel Selection | Select a channel to modify |
| 2 | Mix & Mixer Setting | Matrix mixing allows routing any of the 6 High or Low Level inputs to any of the 12 Low Level or 8 High Level outputs. |

Controller Interface

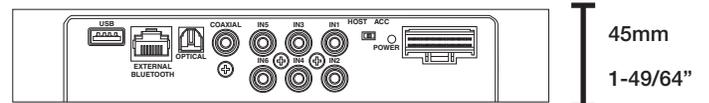
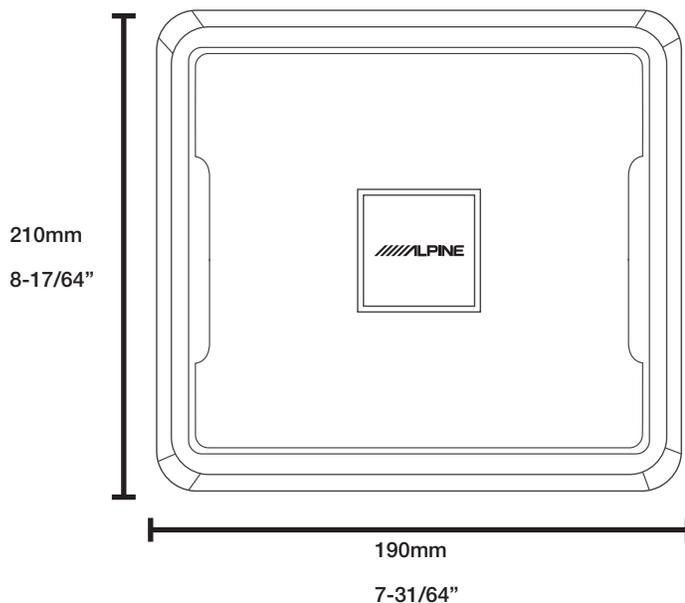


| | | |
|---|----------------|---|
| 1 | Rotary Encoder | Short press (less than 1 second) to scroll through the menus. Turn to scroll through different selections within each menu. Long press (press and hold for 2 seconds) to exit the selected menu. |
| 2 | Mute | <p>1. The first short press of the Rotary Encoder selects the Mute menu and it will flash to give visual confirmation that it is selected.</p> <p>2. Turn the Rotary Encoder left or right to select either Mute On or Mute Off. If Mute On is selected the Volume will display 0. If Mute Off is selected the Volume will go back to the original setting.</p> <p>3. Once the desired setting is made a short press will move to the Input menu or a Long press will store the selection and exit the menu. The menu will automatically time out if nothing is pressed for 20 seconds.</p> |
| 3 | Input | <p>1. The second short press of the Rotary Encoder selects the Input menu and it will flash to give visual confirmation.</p> <p>2. Turn the Rotary Encoder left or right to scroll through the Input selections. : S/PDIF (digital), Hi.Level (high-level), Phone (Bluetooth), AUX (low-level).</p> <p>3. Once the desired setting is made a short press will move to the Preset menu or a Long press will store the selection and exit the menu. The menu will automatically time out if nothing is pressed for 20 seconds.</p> |
| 4 | Preset | <p>1. The third short press of the Rotary Encoder selects the Preset menu and it will flash to give visual confirmation.</p> <p>2. Turn the Rotary Encoder left or right to scroll through Presets 1-6. A short press will select the Preset and then bring up a loading screen.</p> <p>3. Once the Preset has loaded the menu will be exited. The menu will automatically time out if nothing is pressed for 20 seconds.</p> |
| 5 | Volume | Adjust the master Volume by turning the rotary encoder clockwise or counterclockwise. Clockwise will increase the Volume and counterclockwise will decrease the Volume. The interface will display the volume numerically 0-66 and it will also display it incrementally (in tenths until the final 6) with the bars. |

Note: If a laptop is connected or the phone app is launched and connected the Controller will be inoperable. It will display the Alpine logo and can't be used.

Specifications

| | |
|----------------------------------|--|
| Dynamic Range | ≥110dB |
| Signal-To-Noise Ratio | ≥100dB |
| Total Harmonic Distortion | ≤0.05% |
| Frequency Response | 20Hz~20KHz |
| Input Impedance | Low-level input: 20KΩ High-level input: 330Ω |
| Low-Level Output Impedance | 51Ω |
| Scope Of Signal Input And Output | RCA input: 7.5Vpp; High-level: 24Vpp; RCA output: 7.5Vpp |
| Ambient Temperature | -20 - 60°C |
| Storage Temperature | -40 - 85°C |
| Power Source | 9V - 15V DC |
| Active REM Input | Options of high-level activation (H1+/H1-) and ACC activation for selection |
| Active REM Output | +12V activation voltage output (0.1A) |
| Stand-by Power Consumption | ≤0.1W |
| Gross Weight | 1.7kg 3 pounds 12 ounces |
| Dimensions | 210mm (length) x 190mm (width) x 45mm (height) 8-17/64" (length) x 7-31/64" (width) x 1-49/64" (height) |



Specifications

| | |
|---------------------------------|--|
| Type Of Input Signals | 6-channel high-level, 6-channel Aux, S/PDIF, Coaxial, Bluetooth |
| Output Type | 12-Channel RCA output, 8-Channel high-level |
| Output Signal Gain | Range of gain: mute, -59.9dB - 0dB |
| Native Sample Rate | 32k - 96k |
| Output Signal EQ | <ol style="list-style-type: none"> 1. Range of frequency: 20Hz - 20KHz, resolution 1Hz 2. Q-factor: 0.404 - 28.85, resolution 0.01 3. Gain: -12.0dB - +12.0dB, resolution 0.1dB |
| Output Crossover | <ol style="list-style-type: none"> 1. Types of filters: Butterworth, Linkwitz-Riley, and Bessel 2. Filter crossover points: 20Hz - 20KHz. Resolution 1Hz 3. Filter slope (Slope) setting: 12dB/Oct - 48dB/Oct |
| Output Phase Position And Delay | <p>Phase: 0°/180°</p> <p>Delay: 0.000-20 milliseconds, 0.00 - 692 cm, 0.00 - 273 inches</p> |
| Number Of Preset Sound Settings | 6 |

Troubleshooting

| Symptom | Possible Cause | Remedy |
|---|---|--|
| 1 Controller only displays Alpine logo and doesn't allow controls. | The USB cable is not plugged in the right direction, a laptop is plugged in, or the phone app is connected. | The USB cable needs to be plugged into the PXE-0850S with the side that has the connection for the controller going away from the PXE-0850S. |
| | | A PC can't be plugged into the PXE-0850S and have use of the Controller at the same time. Disconnect the device. |
| | | The phone app can't be connected via Bluetooth to the PXE-0850S and have use of the Controller at the same time. Disconnect the app. |
| 2 Not getting full range of sound. | OEM head unit has crossed over outputs. | Outputs should be tested with an oscilloscope and RTA to see what frequencies they are outputting. |
| | | If the outputs are crossed over they will need to be mixed with others to get a full range signal. Test the output of the PXE with an RTA to see what channels need to be mixed in more. |
| 3 Top light on PXE-0850S is flashing. | Device is connected and the app is being used. | When the app is connected the lights on the unit will flash. Once the app is disconnected they will go back to steady. |
| 4 Light stays on after shutting vehicle off. | The PXE-0850S stays on for 2 minutes after the system shuts off. | This is normal operation. |
| 5 Bluetooth module is flashing. | No devices are paired to the unit. | If a device is paired to the PXE-0850S the Bluetooth extension light will stop flashing and will go light steady. |