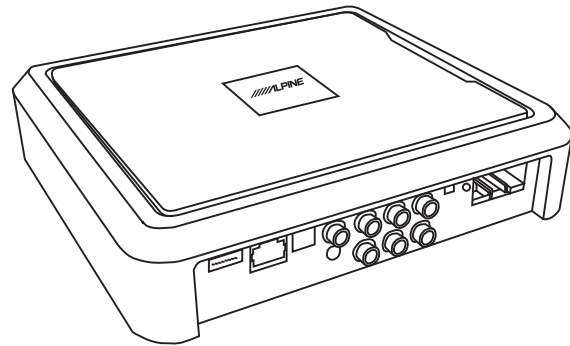


# PXE-0850X

## 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-0850X. This installation manual is designed to take you through the installation of PXE-0850X. 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

<b>Warning</b>	Ignoring the content marked by this indication and using the product incorrectly is expected to lead to death or serious injury.
<b>Caution</b>	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)
	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 children cannot reach them. If one of these small objects is swallowed, consult with a doctor immediately.** 


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


**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, gear shift, 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 could 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.** 



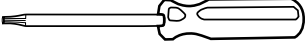
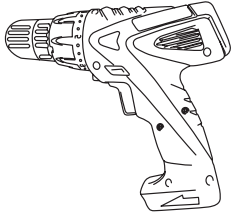
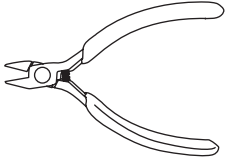
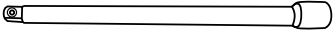
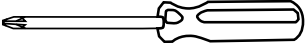
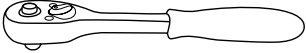



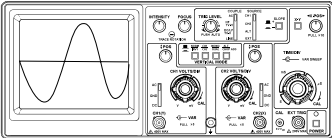
**Do not block vents or heat sinks. Doing so could lead to fire or damage equipment.** 

**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

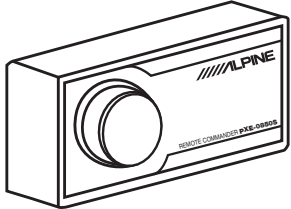
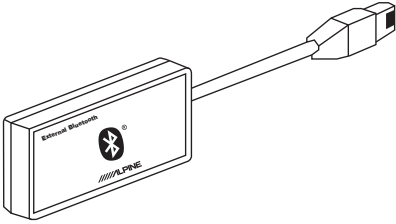
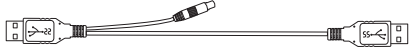

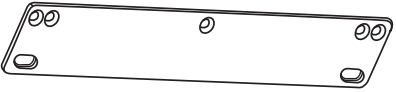

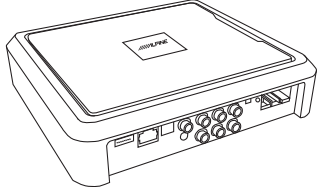
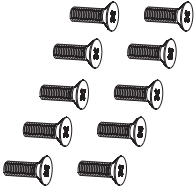
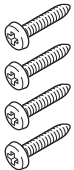
**The installation and wiring of this product requires specialized skills and experience. Have the product installed by an Alpine authorized dealer.** 

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

<b>Panel Removing Tool</b>	<b>Sockets</b>	<b>Torx Screwdriver</b>	<b>Power Drill</b>
			
<b>Wire Cutters</b>	<b>Extension</b>	<b>Phillips Screwdriver</b>	<b>Ratchet</b>
			
<b>Crimpers</b>	<b>Pliers</b>	<b>RTA</b>	<b>Oscilloscope</b>
			

**Accessory List**

**Installation Kit Parts**

<b>Wired Controller</b>	<b>Bluetooth Adapter</b>	<b>USB 3.0 Cable</b>
		
<b>Speaker Harness x 2</b>	<b>Stand Mount x 4</b>	<b>High Level Input Connector</b>
		
<b>Processor</b>	<b>Screws x 10</b>	<b>Screws x 4</b>
		

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## Download The App

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- 1 For Android users the PXE-0850X app is available on the Google Play store.
- 2 For iPhone users the PXE-0850X app is available through iTunes.
- 3 The PC App is located on the Alpine web site in the Knowledge Center. Go to [www.alpine-usa.com](http://www.alpine-usa.com). Click on Support, then Knowledge Center, and type PXE-0850X in the search bar. Download the zip file, unzip, and double click on the app.

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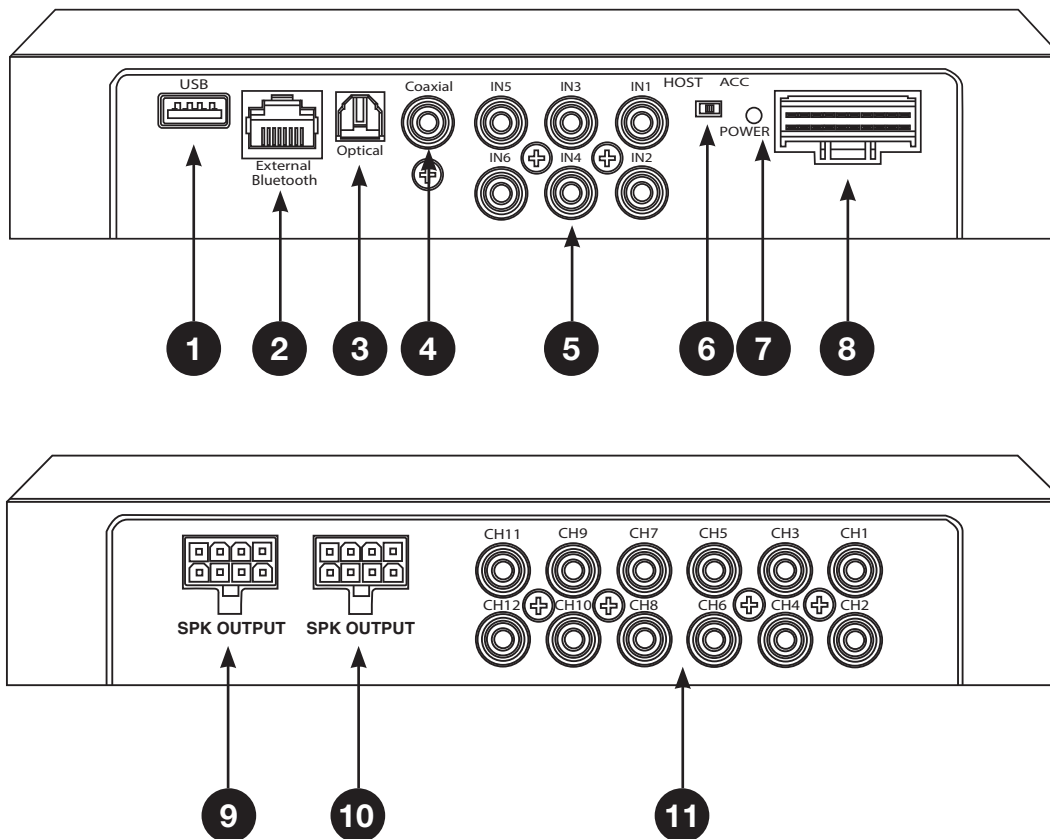
## Pairing The Device

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- 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.

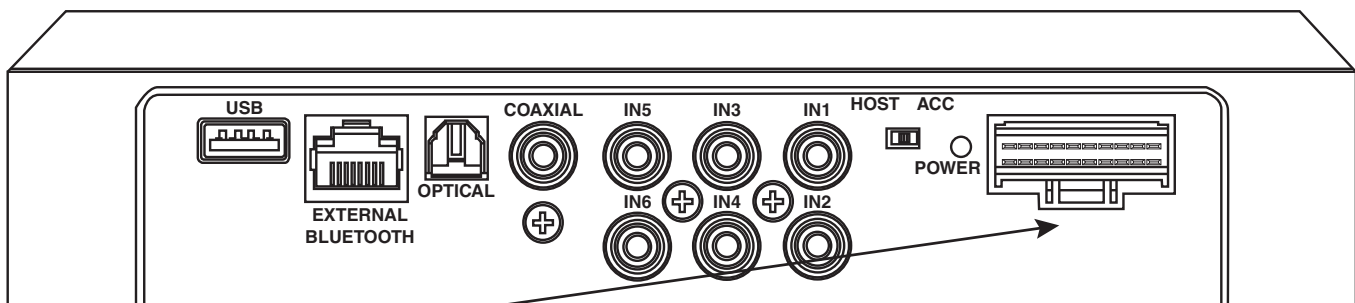
Note: The light on the Bluetooth adapter will flash until a device has been paired. Once a device is paired it will remain steady.

## Component Locations

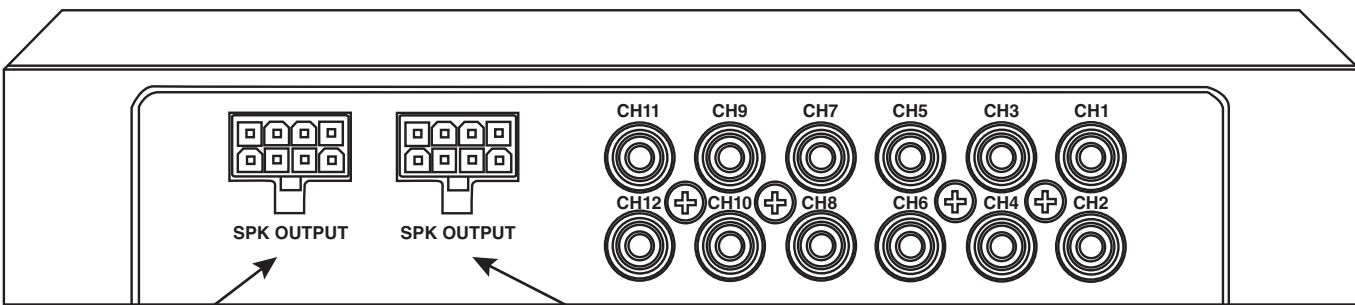
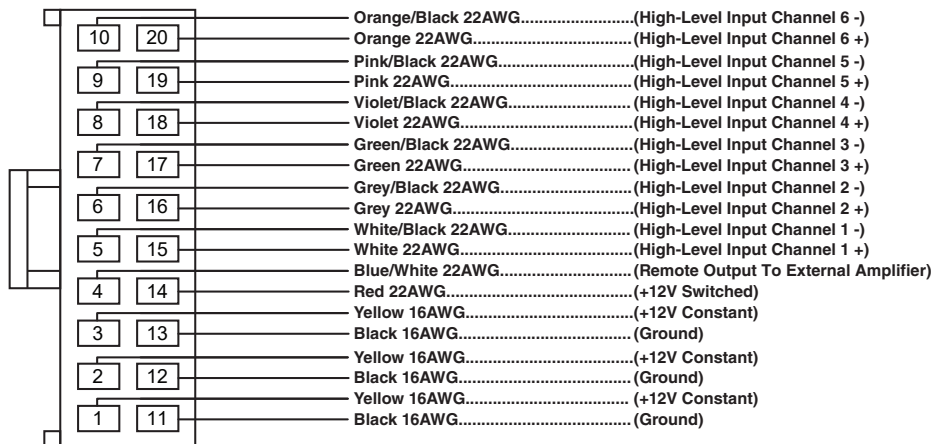


	Component Name	Component Definition
1	USB Input	The USB 3.0 cable is used to connect to a Windows PC to tune with software. The cable also has the connection for the wired controller.
2	External Bluetooth Input	The Bluetooth interface is used for streaming lossless music and for tuning with the phone app. After a phone is paired the indicator light turns on.
3	Optical Input	Optical Output.
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 run 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.

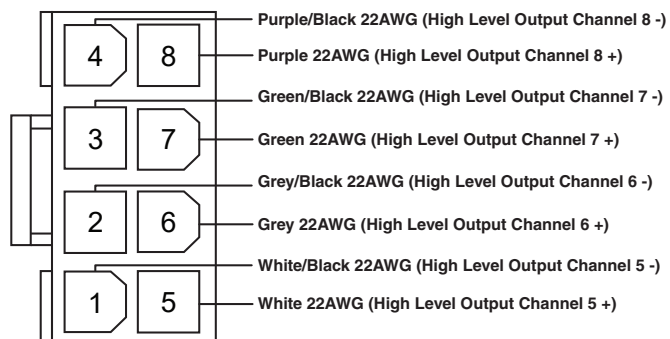
## Wire Harness Pinouts



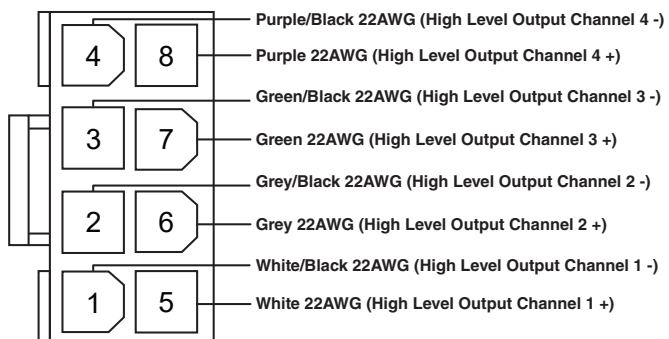
### Main Harness



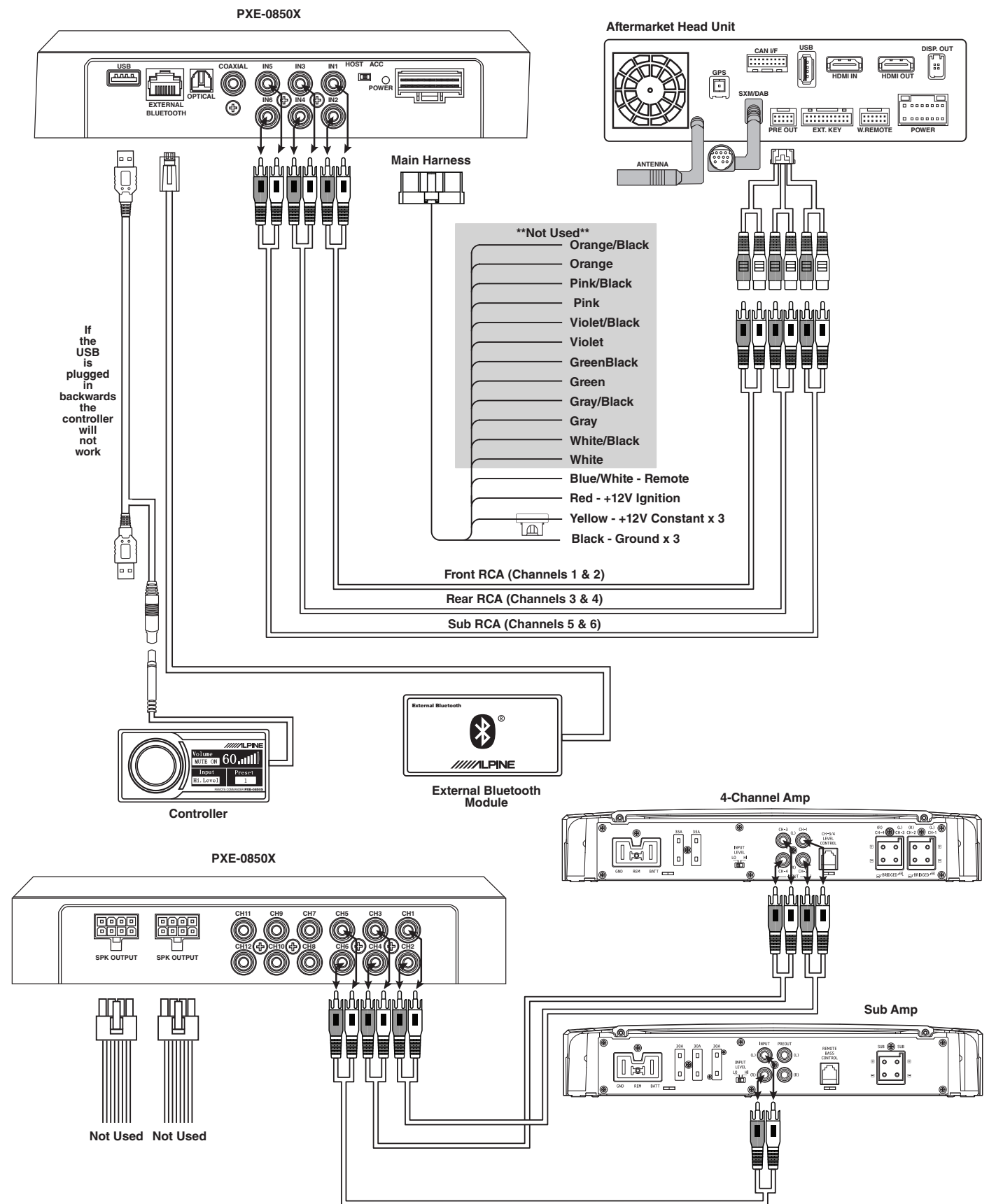
### SPK Output



### 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)

**Before**

**After**

**Channel 1**

**Channel 2**

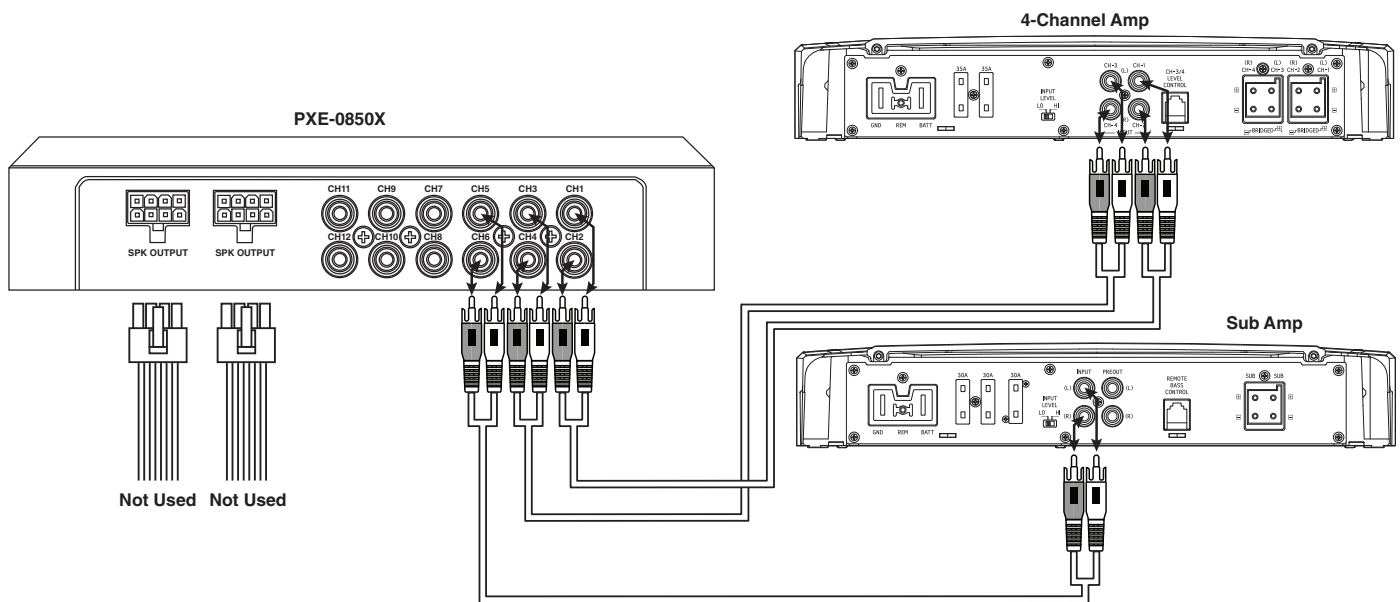
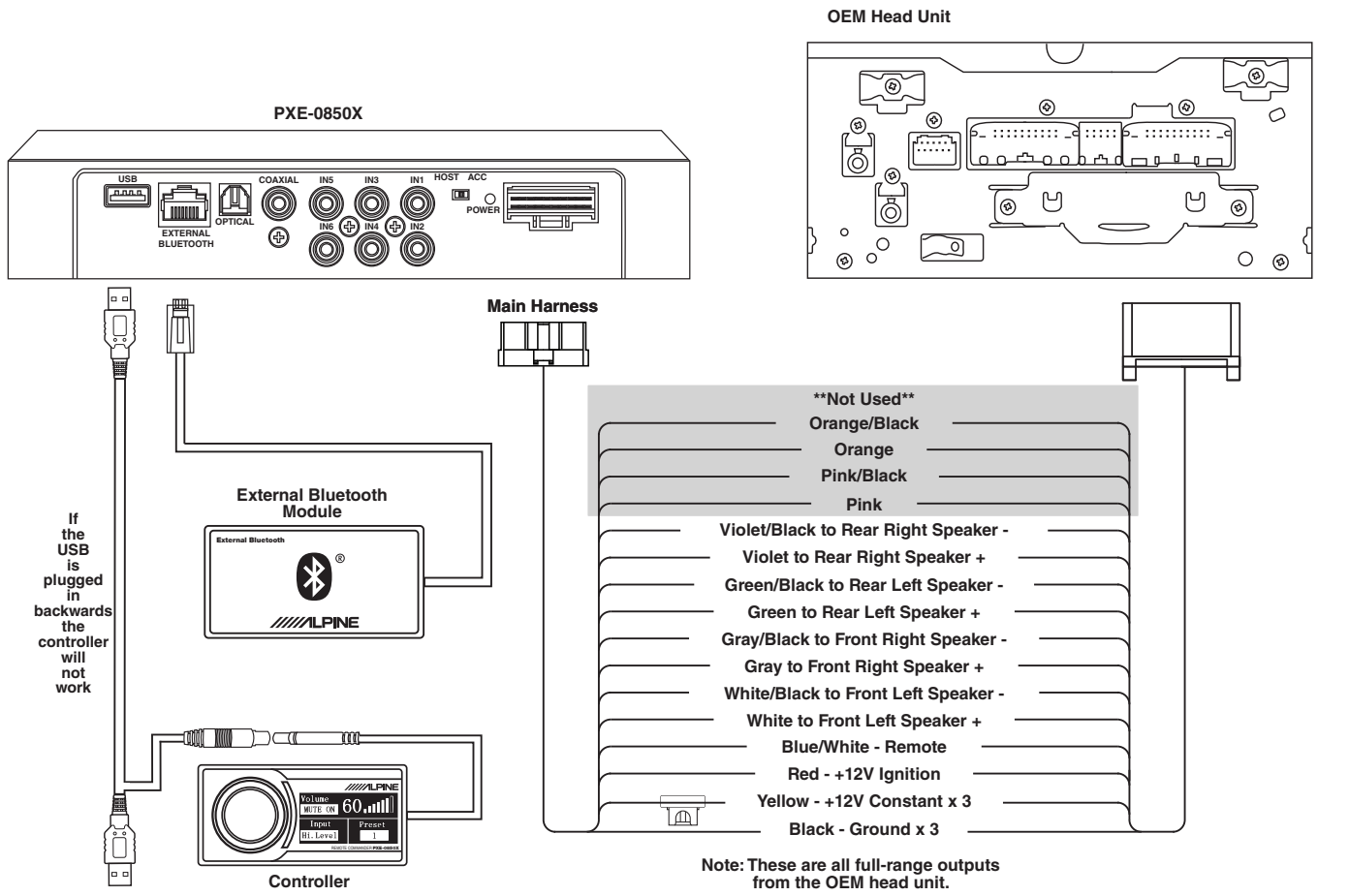
**Channel 3**

**Channel 4**

**Channel 5**

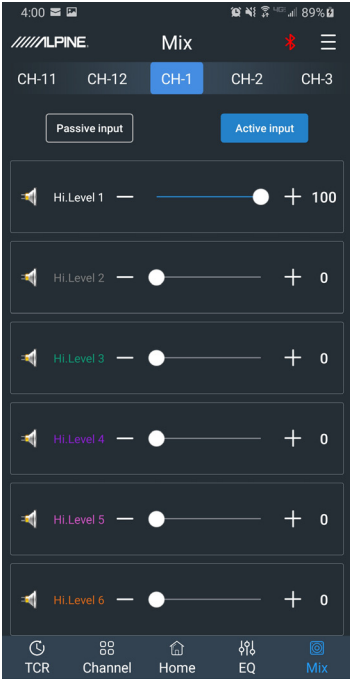
**Channel 6**

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

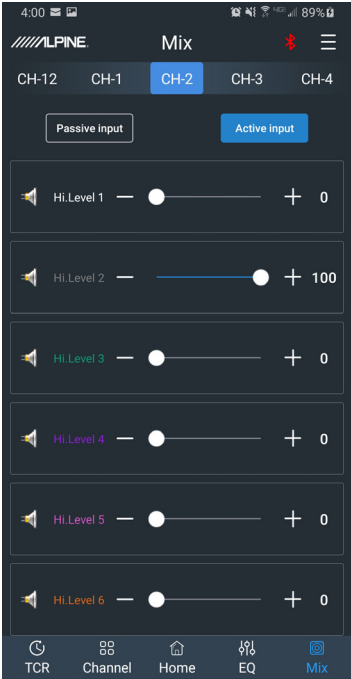


**Mixer Setup- 4-Channel In/6-Channel Out (With OEM Head Unit)**

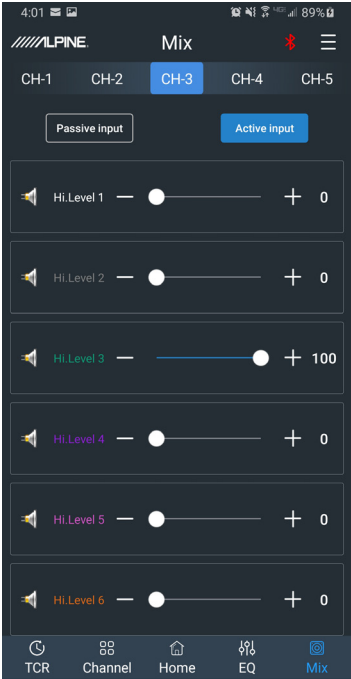
**Channel 1**



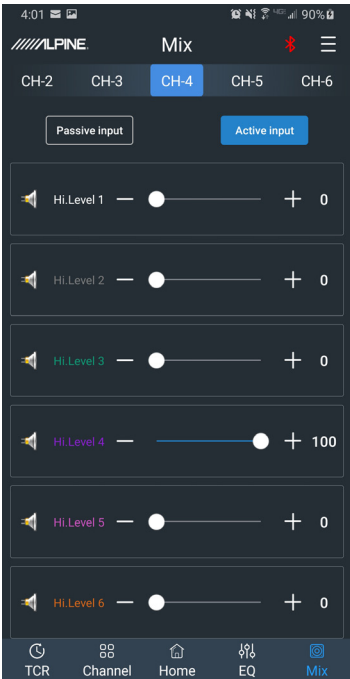
**Channel 2**



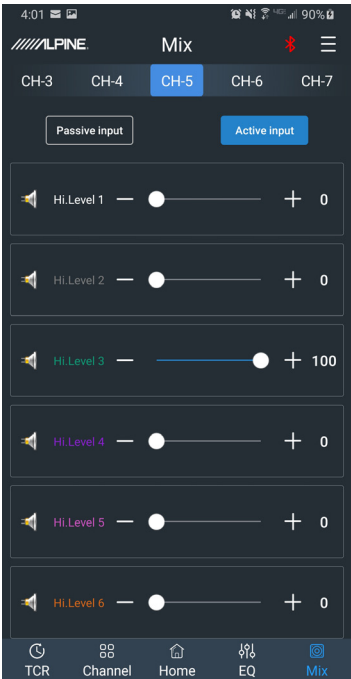
**Channel 3**



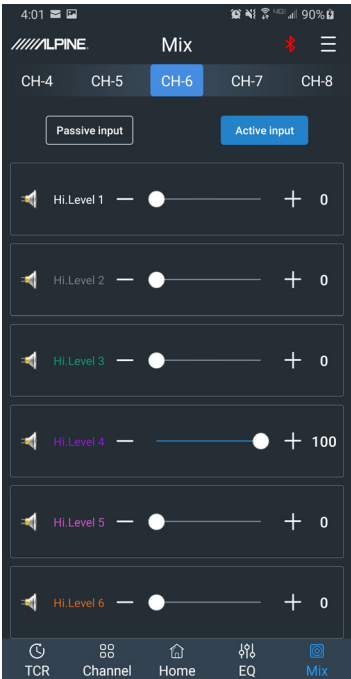
**Channel 4**



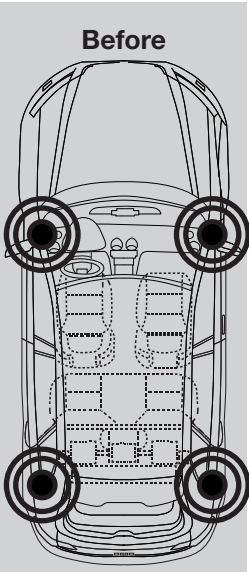
**Channel 5**



**Channel 6**



**Before**

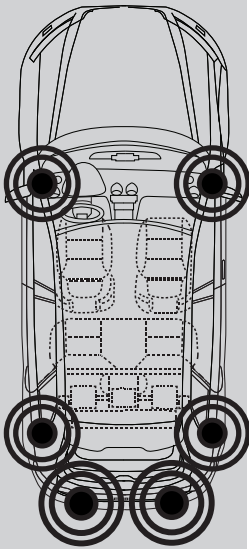


**Channel 1**

**Channel 2**

**Channel 3**

**After**

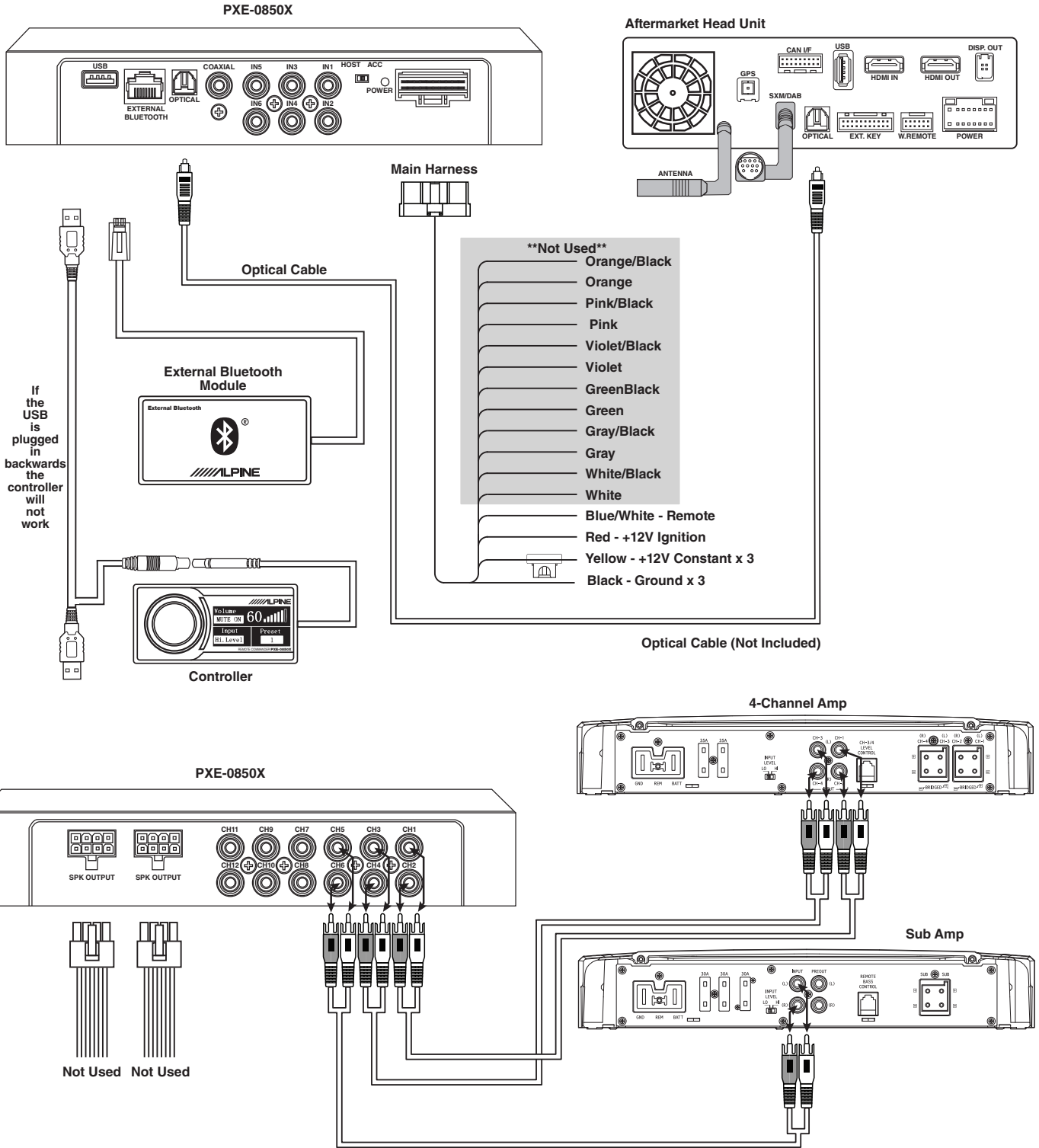


**Channel 4**

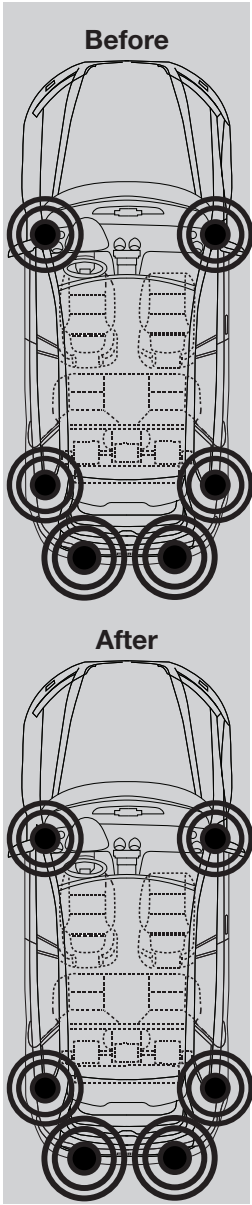
**Channel 5**

**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**

ALPINE Mix

CH-11 CH-12 CH-1 CH-2 CH-3

Passive input Active input

AUX 5 — ● — + 0

AUX 6 — ● — + 0

SPDIF-L — ● — + 100

SPDIF-R — ● — + 0

BT-L — ● — + 100

BT-R — ● — + 0

TCR Channel Home EQ Mix

**Channel 2**

ALPINE Mix

CH-12 CH-1 CH-2 CH-3 CH-4

Passive input Active input

AUX 5 — ● — + 0

AUX 6 — ● — + 0

SPDIF-L — ● — + 0

SPDIF-R — ● — + 100

BT-L — ● — + 0

BT-R — ● — + 100

TCR Channel Home EQ Mix

**Channel 3**

ALPINE Mix

CH-1 CH-2 CH-3 CH-4 CH-5

Passive input Active input

AUX 5 — ● — + 0

AUX 6 — ● — + 0

SPDIF-L — ● — + 100

SPDIF-R — ● — + 0

BT-L — ● — + 100

BT-R — ● — + 0

TCR Channel Home EQ Mix

**Channel 4**

ALPINE Mix

CH-2 CH-3 CH-4 CH-5 CH-6

Passive input Active input

AUX 5 — ● — + 0

AUX 6 — ● — + 0

SPDIF-L — ● — + 0

SPDIF-R — ● — + 100

BT-L — ● — + 0

BT-R — ● — + 100

TCR Channel Home EQ Mix

**Channel 5**

ALPINE Mix

CH-3 CH-4 CH-5 CH-6 CH-7

Passive input Active input

AUX 5 — ● — + 0

AUX 6 — ● — + 0

SPDIF-L — ● — + 100

SPDIF-R — ● — + 0

BT-L — ● — + 100

BT-R — ● — + 0

TCR Channel Home EQ Mix

**Channel 6**

ALPINE Mix

CH-4 CH-5 CH-6 CH-7 CH-8

Passive input Active input

AUX 5 — ● — + 0

AUX 6 — ● — + 0

SPDIF-L — ● — + 0

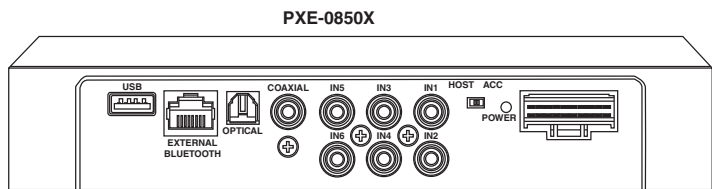
SPDIF-R — ● — + 100

BT-L — ● — + 0

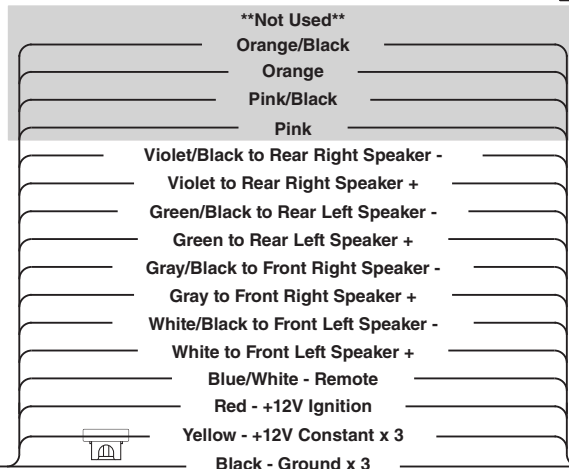
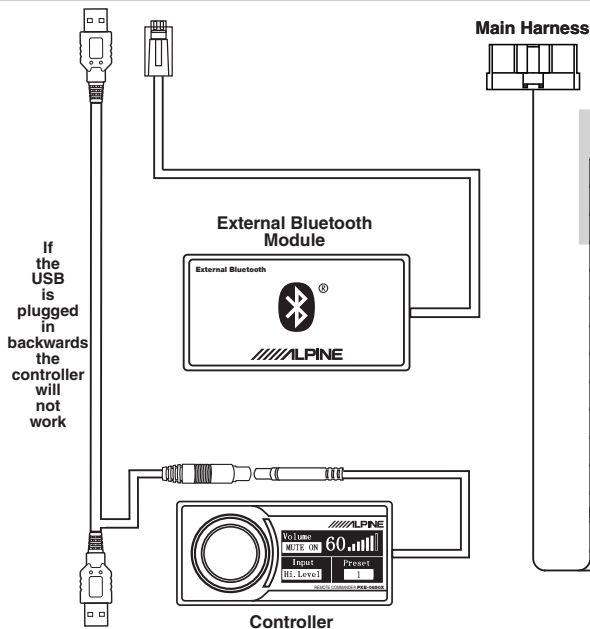
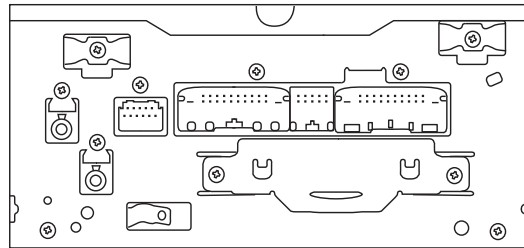
BT-R — ● — + 100

TCR Channel Home EQ Mix

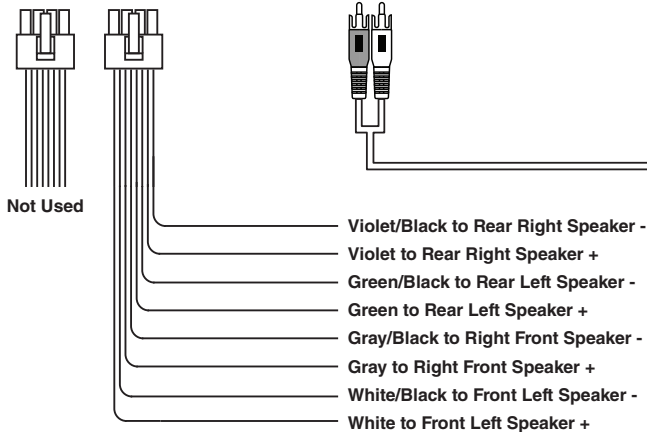
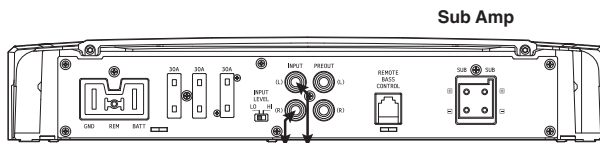
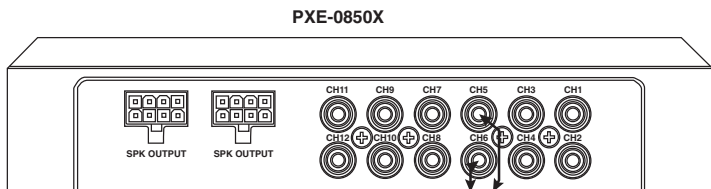
## Installation Example- 4-Channel In/6-Channel Out Using High Level Out (With OEM Head Unit)



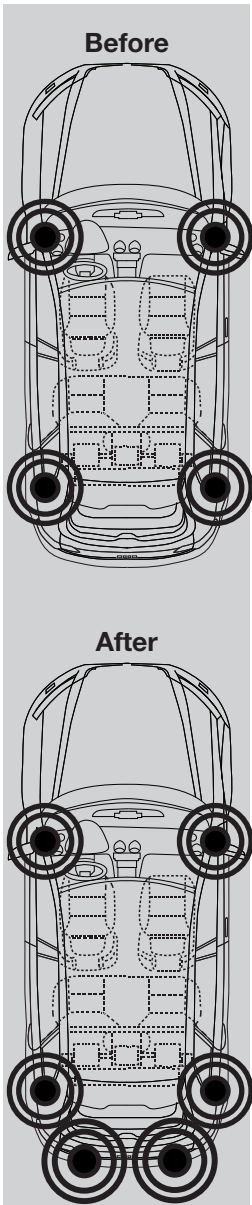
OEM Head Unit



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



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



**Channel 1**

ALPINE Mix

CH-11 CH-12 CH-1 CH-2 CH-3

Passive input Active input

Hi.Level 1 — [Slider at 100] + 100

Hi.Level 2 — [Slider at 0] + 0

Hi.Level 3 — [Slider at 0] + 0

Hi.Level 4 — [Slider at 0] + 0

Hi.Level 5 — [Slider at 0] + 0

Hi.Level 6 — [Slider at 0] + 0

TCR Channel Home EQ Mix

**Channel 2**

ALPINE Mix

CH-12 CH-1 CH-2 CH-3 CH-4

Passive input Active input

Hi.Level 1 — [Slider at 0] + 0

Hi.Level 2 — [Slider at 100] + 100

Hi.Level 3 — [Slider at 0] + 0

Hi.Level 4 — [Slider at 0] + 0

Hi.Level 5 — [Slider at 0] + 0

Hi.Level 6 — [Slider at 0] + 0

TCR Channel Home EQ Mix

**Channel 3**

ALPINE Mix

CH-1 CH-2 CH-3 CH-4 CH-5

Passive input Active input

Hi.Level 1 — [Slider at 0] + 0

Hi.Level 2 — [Slider at 0] + 0

Hi.Level 3 — [Slider at 100] + 100

Hi.Level 4 — [Slider at 0] + 0

Hi.Level 5 — [Slider at 0] + 0

Hi.Level 6 — [Slider at 0] + 0

TCR Channel Home EQ Mix

**Channel 4**

ALPINE Mix

CH-2 CH-3 CH-4 CH-5 CH-6

Passive input Active input

Hi.Level 1 — [Slider at 0] + 0

Hi.Level 2 — [Slider at 0] + 0

Hi.Level 3 — [Slider at 0] + 0

Hi.Level 4 — [Slider at 100] + 100

Hi.Level 5 — [Slider at 0] + 0

Hi.Level 6 — [Slider at 0] + 0

TCR Channel Home EQ Mix

**Channel 5**

ALPINE Mix

CH-3 CH-4 CH-5 CH-6 CH-7

Passive input Active input

Hi.Level 1 — [Slider at 0] + 0

Hi.Level 2 — [Slider at 0] + 0

Hi.Level 3 — [Slider at 100] + 100

Hi.Level 4 — [Slider at 0] + 0

Hi.Level 5 — [Slider at 0] + 0

Hi.Level 6 — [Slider at 0] + 0

TCR Channel Home EQ Mix

**Channel 6**

ALPINE Mix

CH-4 CH-5 CH-6 CH-7 CH-8

Passive input Active input

Hi.Level 1 — [Slider at 0] + 0

Hi.Level 2 — [Slider at 0] + 0

Hi.Level 3 — [Slider at 0] + 0

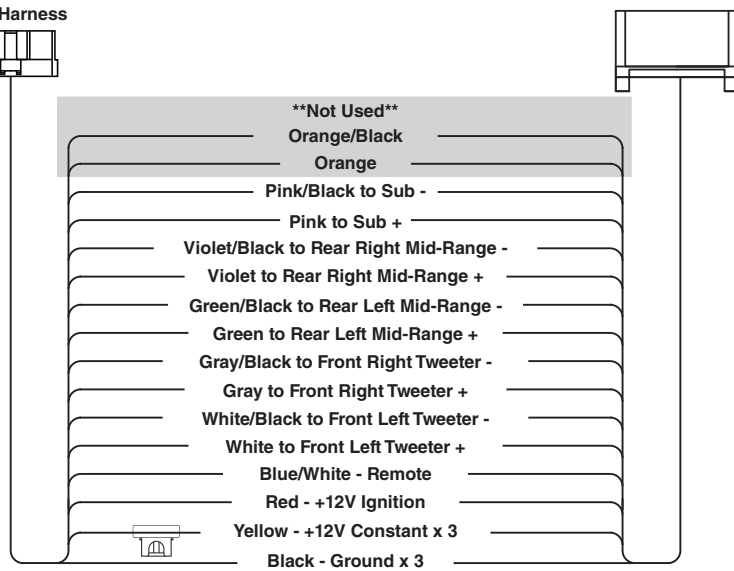
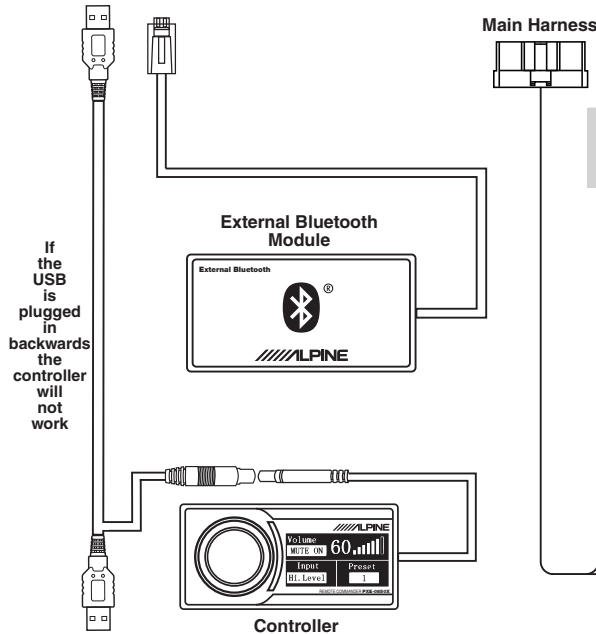
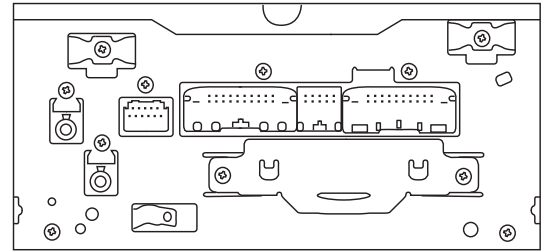
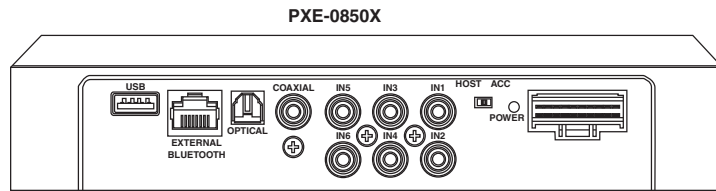
Hi.Level 4 — [Slider at 100] + 100

Hi.Level 5 — [Slider at 0] + 0

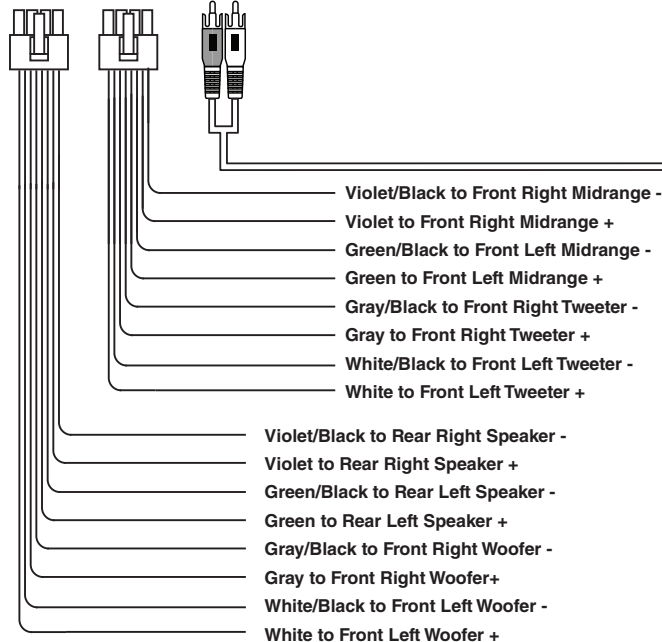
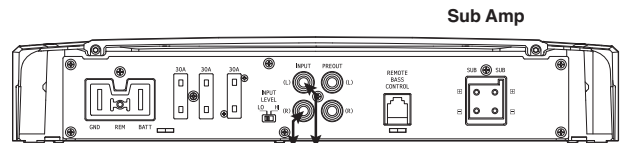
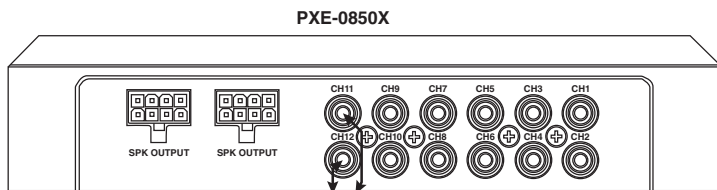
Hi.Level 6 — [Slider at 0] + 0

TCR Channel Home EQ Mix

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

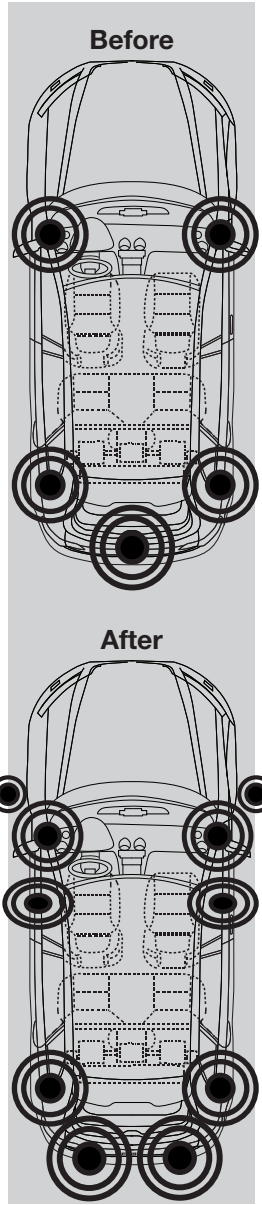


Note: These are all crossed over outputs from the OEM head unit.





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



**Channel 1**

**Channel 2**

**Channel 3**

**Channel 4**

**Channel 5**

**Channel 6**

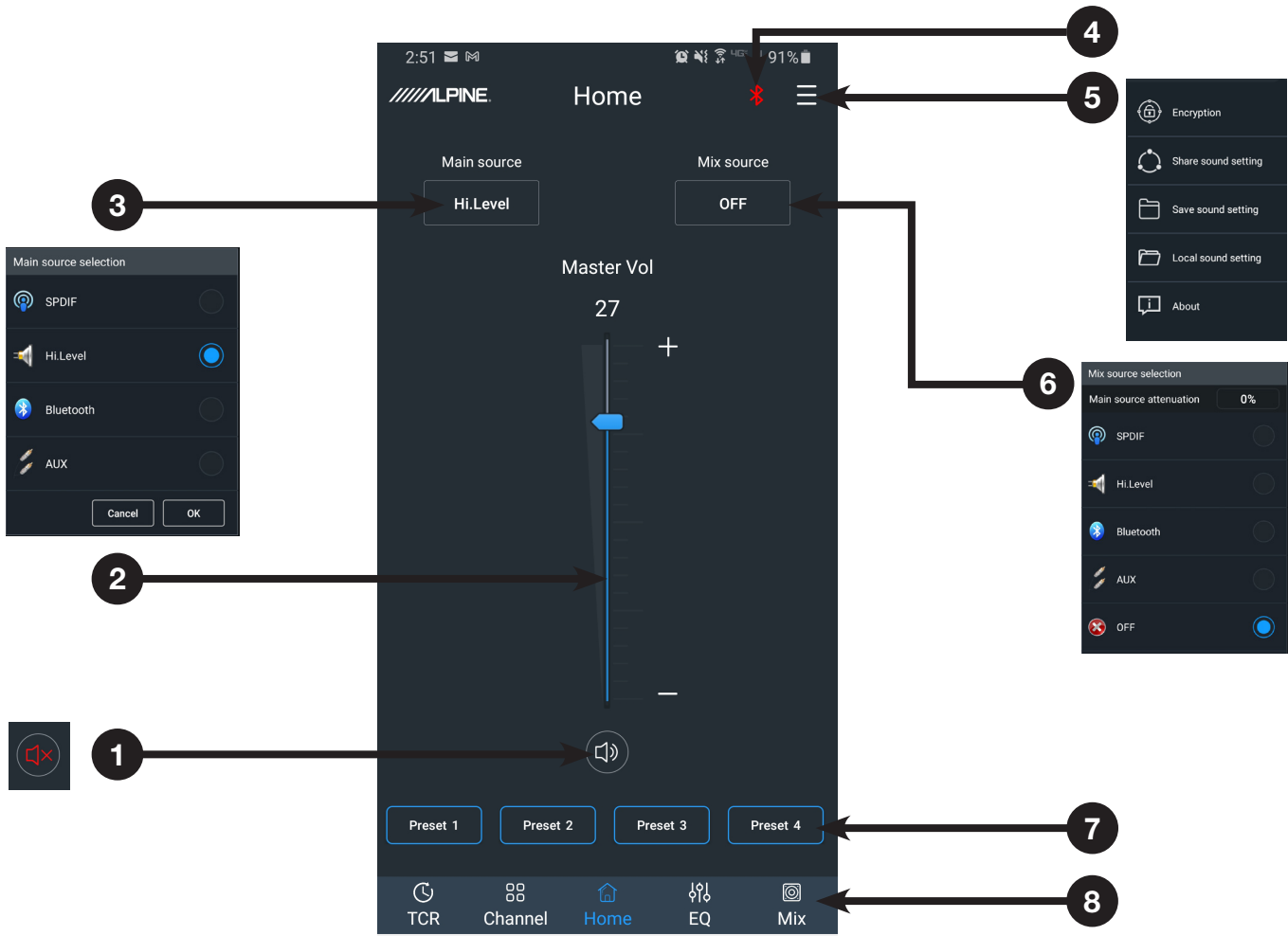
**Channel 7**

**Channel 8**

**Channel 9**

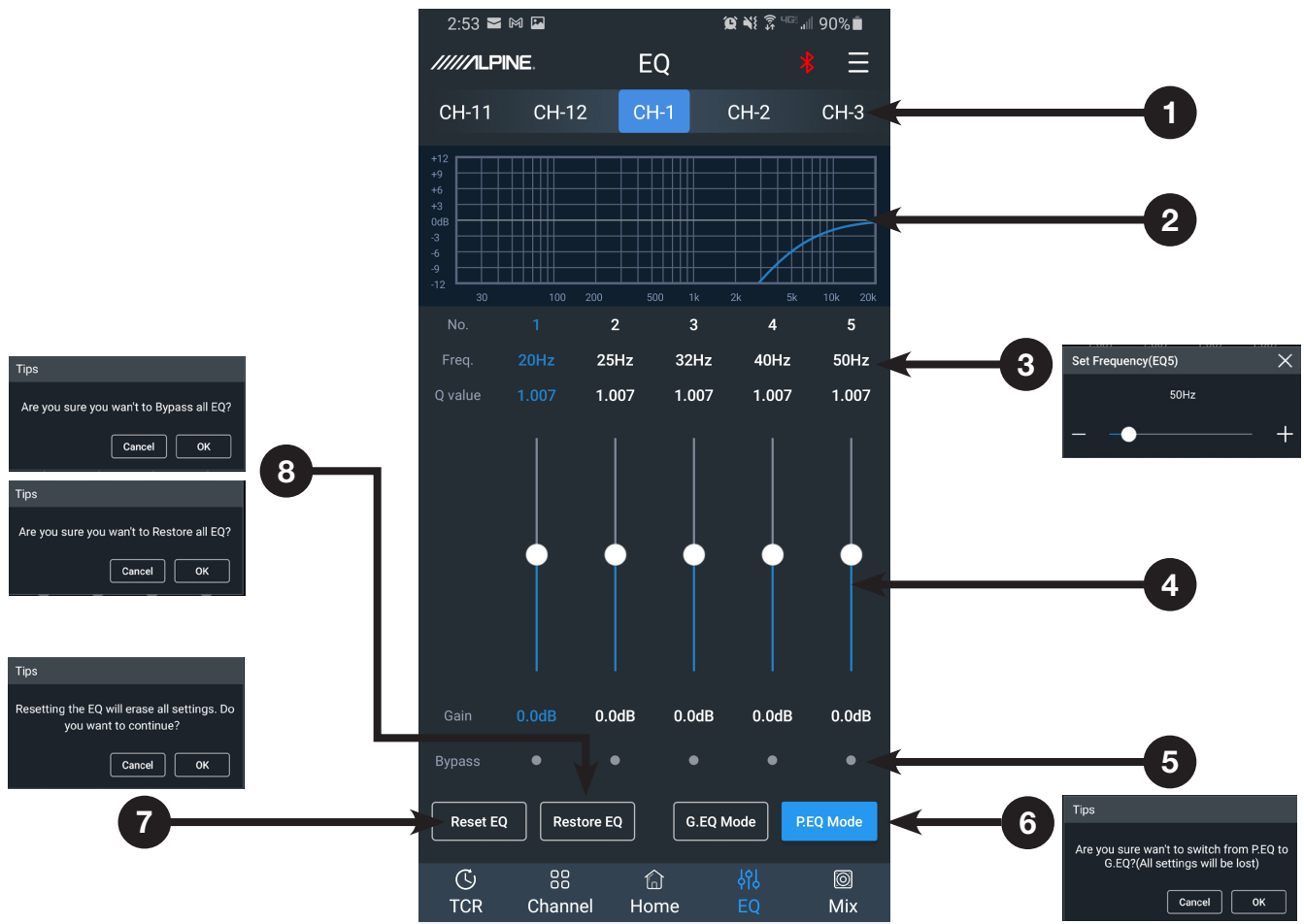
**Channel 10**

**Mobile Phone App Instructions- Home Screen**



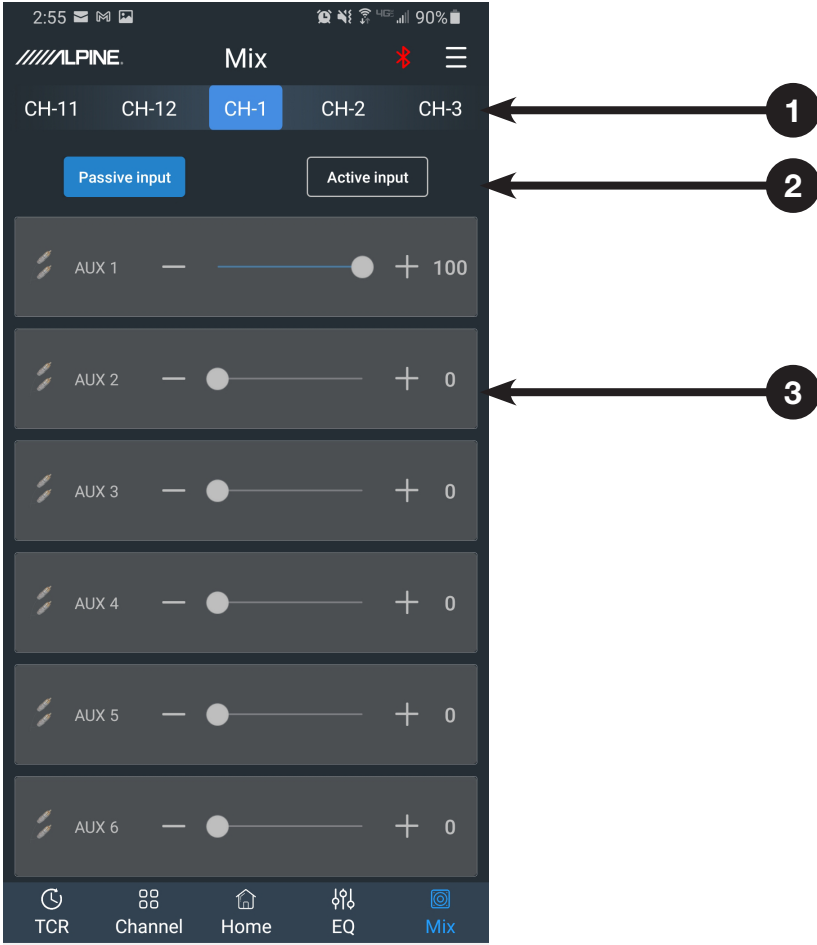
1	Mute Button	Mutes the audio.
2	Master Volume	Adjusts the system volume up and down.
3	Main Source	Select input source (Hi-level, Aux, Bluetooth, and S/PDIF).
4	Connections Indicator	If the Bluetooth icon is red then there is no phone paired. If the icon is green that indicates a phone is currently paired. If a phone has been previously 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.
5	Files Tab	User is able to Save, Share, and Load presets; along with viewing the software version.
6	Mix Source	Mixes the audio in from a 2nd source (external GPS, radar detector, DVD player, etc).
7	Preset Buttons	Store and recall up to 6 preset sound settings. Only 4 presets can display on the screen at a time. Slide from left to right to select the different presets.
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-Value, 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	Band On/Off	Press to bypass the EQ band. Press again to put the setting back to where it was.
6	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.
7	Reset EQ	Reset the EQ settings.
8	Restore/Bypass EQ	Press to temporarily bypass the EQ settings. Press again to restore the 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 Passive or Active inputs to any of the 12 Low Level or 8 High Level (25W) outputs.
2	Active/Passive Input	Not used. Leave in the default setting of Passive. Warning: If this gets changed you will lose the mixer settings for that channel.
3	Input Level	Adjust the slider left to right to move from 0 to 100% of the signal to mix in from that specific channel.

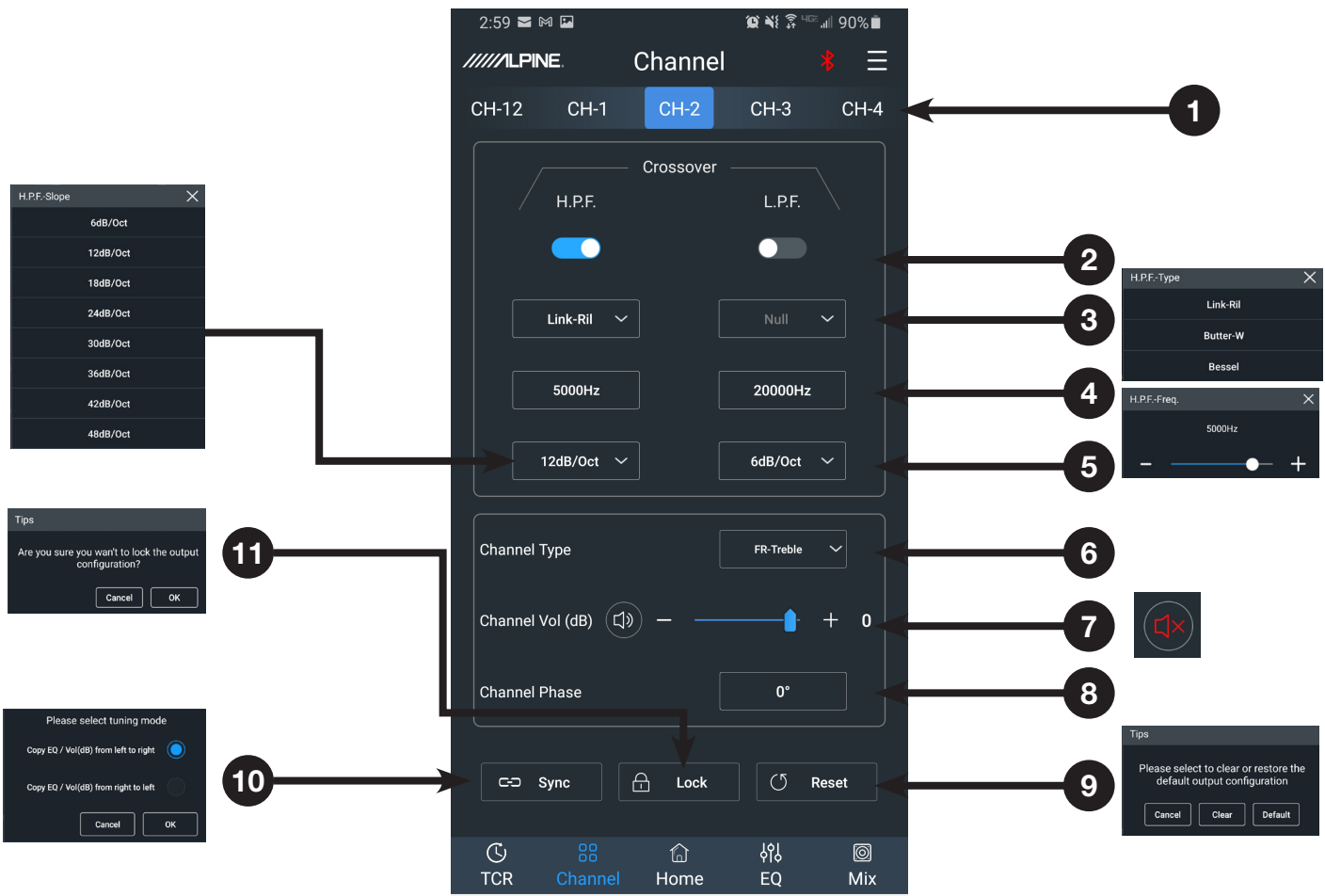
Note: It is highly recommended that the total for one channel equal 100 to prevent clipping.

**Mobile Phone App Instructions- TCR**



1	Delay Group	Allows the user to delay multiple linked channels at the same time.
2	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.
3	Delay Units	Select between Milliseconds, Centimeters, and Inches as the increment to adjust the delay.

## Mobile Phone App Instructions- Channel



1	Channel Selection	The 12 output channels can be selected by swiping left or right.
2	Crossover	Press to select to turn the H.P.F or the L.P.F on or off.
3	Filter Type	Select between 3 filter types: Linkwitz-Riley, Bessel, and Butterworth.
4	Crossover Frequency	Select the crossover frequency (between 20Hz & 20kHz).
5	Slope Range	Select the crossover slope (12dB, 18dB, 24dB, 30dB, 36dB, 42dB, or 48dB).
6	Channel Type	Select the type of speaker being used. This will bring up a popup menu that will list every speaker type.
7	Channel Output	Adjust Channel Output levels between 0-60. Press the speaker icon to mute.
8	Channel Phase	Sets the phase from 0 to 180.
9	Reset	Select "Clear" to clear out all the settings. Select "Default" to restore to factory default values.
10	Sync	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.
11	Lock	Sets the phase from 0 to 180.

## PC App Overview

The main interface of the LPINE PXE-0850X PC app is shown with the following numbered callouts:

- 1**: File menu
- 2**: Option menu
- 3**: Encryption menu
- 4**: Master Volume slider
- 5**: Main source selection (HiLevel)
- 6**: Mix source selection (OFF)
- 7**: Preset sound effect selection
- 8**: Channel selection (CH-1 to CH-12)
- 9**: EQ frequency response graph
- 10**: EQ parameter table (No., Freq., Q value, Gain)
- 11**: EQ mode selection (G.EQ Mode, PEQ Mode)
- 12**: H.P.F. (High Pass Filter) settings
- 13**: L.P.F. (Low Pass Filter) settings
- 14**: Volume (Vol) control for the selected channel
- 15**: Phase control for the selected channel
- 16**: TCR (Time Constant Rate) control
- 17**: Speaker layout diagram
- 18**: Lock button
- 19**: Sync button
- 20**: Channel list (CH-1 to CH-12)
- 21**: Power button

The Channel settings dialog box (callout 17) shows a speaker layout diagram with various settings for the selected channel (CH-4):

- Driver group:** FL-Bass
- Unit:** 0
- Subwoofer:** 0
- TCR:** 0.000 ms
- Unit:** 0 cm
- Unit:** 0 inch
- Volume (Vol):** 0
- Phase:** 0

The Input Mix setting dialog box (callout 3) shows a grid of volume controls for various input sources:

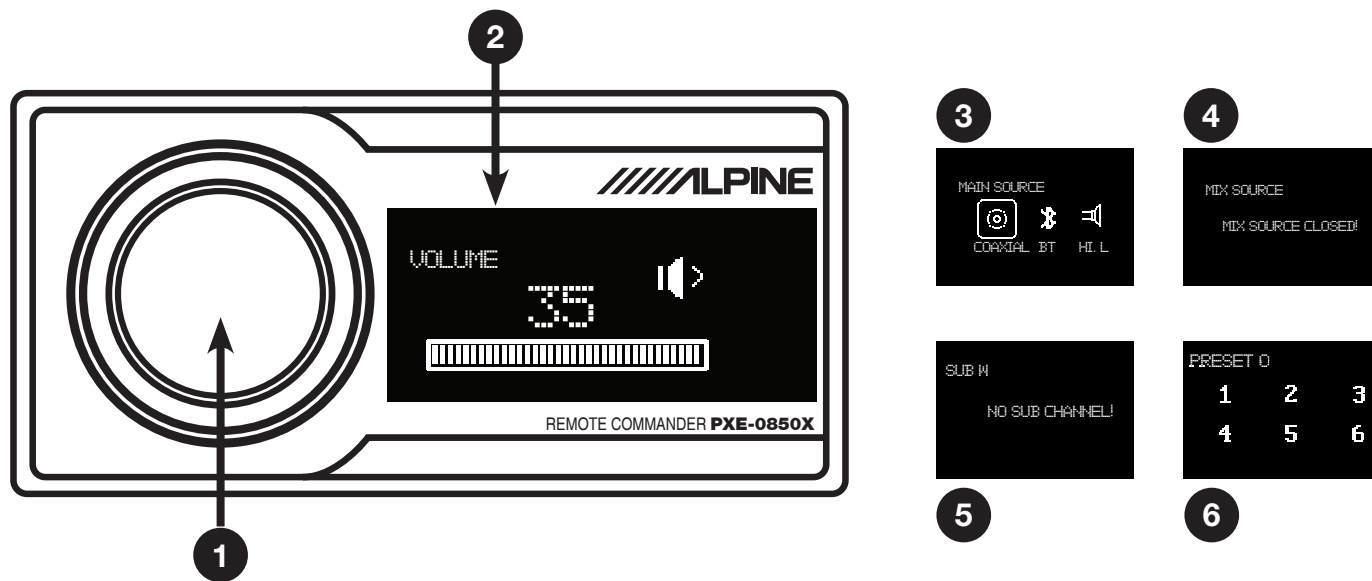
- Passive input:** HI Level 1-6, AUX 1-6, SPDIF-L, SPDIF-R, BTL, BTR
- Active input:** HI Level 1-6, AUX 1-6, SPDIF-L, SPDIF-R, BTL, BTR

**PC App Overview Continued**

1	Main Source	Select input source (Hi-level, Aux, Bluetooth, and S/PDIF).
2	File Tab	Load or Save presets stored on your PC.
3	Option Tab	Input Mix Setting- opens the Mixer popup screen. The 12 channels for mixing can be selected by sliding left or right. Matrix mixing allows routing any of the 6 Passive or Active inputs to any of the 12 Low Level or 8 High Level (25W) outputs.
		Firmware Update- opens the explorer for a firmware update file. Restore Factory Settings- resets everything to factory defaults. Language- allows the user to change the language to Chinese. About- shows device info
4	Encryptpion Tab	Create a 6 digit password to encrypt the settings.
5	Mute	Mutes the audio.
6	Volume Slider	Adjusts the system volume up and down.
7	Preset Sound Effect	Store and recall up to 6 preset sound settings.
8	Channel Selector	Select the desired channels to overlay in the EQ Curve Window.
9	EQ Curve Window	Displays the current curve of the EQ adjustments. The numbers can be used to move the bands of the EQ up and down. H and L can be used to drag the crossover settings.
10	EQ Settings	Frequency, Q Value, and Gain for each of the 31 bands can be adjusted. Each channel can be bypassed as well.
11	P. EQ/G. EQ Mode	Select either the Parametric EQ mode or the Graphic EQ mode. Switching the mode will result in a loss of all settings.
12	Low Pass Filter	Switch the Low Pass Filter on or off to cut high frequencies. Select between 3 filter types: Linkwitz-Riley, Bessel, and Butterworth. Select the crossover frequency (between 20Hz & 20kHz). Select the crossover slope (12dB, 18dB, 24dB, 30dB, 36dB, 42dB, or 48dB).
13	High Pass Filter	Switch the High Pass Filter on or off to cut low frequencies. Select between 3 filter types: Linkwitz-Riley, Bessel, and Butterworth. Select the crossover frequency (between 20Hz & 20kHz). Select the crossover slope (12dB, 18dB, 24dB, 30dB, 36dB, 42dB, or 48dB).
14	Channel Output	Adjust Channel Output levels between -60-0.
15	Channel Phase	Sets the phase from 0 to 180.
16	TCR	Enter the value of the channel delay. The slider will display ms, cm, and inches.
17	Channel Settings	Clicking on one of the speaker icons will open the Channel Settings popup. Channel Output, Channel Phase, TCR, and Delay Group can all be adjusted.
18	Restore/Bypass EQ	Press to temporarily bypass the EQ settings. Press again to restore the settings.
19	Reset EQ	Reset the EQ settings.
20	Output Channels	The 12 Output Channels can be selected and configured. Clicking on the channel will display it in the EQ Curve window. Each channel can be assigned a location. Clicking on the speaker icon will Mute channels indivually.
21	Connect Tab	Plug in the PC via USB and press the Connect Tab to allow the software to communicate with the PXE-0850X.



## Controller Interface

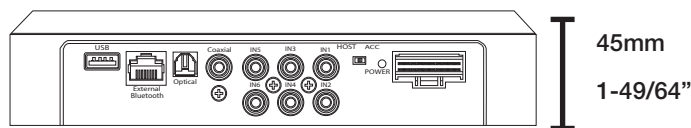
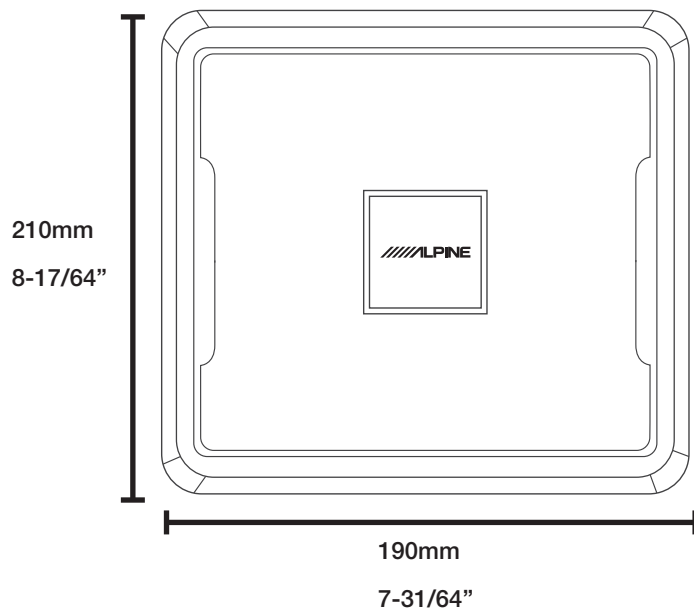


1	Rotary Encoder	Rotate clockwise or counter-clockwise to scroll through selections. Press and hold for 3 seconds to bring up the other menus. A short press forwards to the next menu screen.
2	Volume	The default screen is Volume. Adjust the master Volume by turning the Rotary Encoder clockwise or counter-clockwise. Clockwise will increase the Volume and counter-clockwise will decrease the Volume. The interface will display the Volume numerically 0-35 and it will also display it incrementally with the bars. Press the Rotary Encoder to Mute.
3	Main Source	<p>1. Press and hold the Rotary Encoder for 3 seconds to bring up the source screen.</p> <p>2. Rotate the Rotary Encoder right or left to scroll between Coaxial (digital), BT (Bluetooth), Hi.L (high-level), Aux (low-level). When Bluetooth and either the Hi or Aux are connected at the same time, the Bluetooth will default as the main source.</p> <p>3. The selected Main Source is displayed by a box around the icon. There is no reason to press the Rotary Encoder to select the source. The menu will automatically time out if nothing is pressed for 5 seconds and go back to the default Volume screen.</p>
4	Mix Source	<p>1. The second short press of the Rotary Encoder will select the Mix Source menu.</p> <p>2. Rotate the Rotary Encoder right or left to scroll between Coaxial (digital), BT (Bluetooth), Hi.L (high-level), Aux (low-level), and Mix Source Closed. When Mix Source Closed is selected the Mix Source is set to off.</p> <p>3. The selected Mix Source is displayed by a box around the icon. There is no reason to press the Rotary Encoder to select the source. The menu will automatically time out if nothing is pressed for 5 seconds and go back to the default Volume screen.</p>
5	Sub W	<p>1. The third short press of the Rotary Encoder will select the Sub W menu.</p> <p>2. Turn the rotary encoder left or right to adjust the subwoofer level between 0-15. If there is no sub output defined in the Channel settings it will show the error message No Sub Channel!.</p>
6	Preset	<p>1. The fourth short press of the Rotary Encoder will select the Preset menu.</p> <p>2. Turn the Rotary Encoder left or right to scroll through Presets 1-6.</p> <p>3. The selected Preset is displayed by highlighting the number. Short press the rotary encoder and the Preset will load. The menu will automatically time out if nothing is pressed for 5 seconds and go back to the default Volume screen.</p>

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"



## 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	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	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	Phase: 0°/180° Delay: 0.000-20 milliseconds, 0.00-692cm, 0.00-273inches
Number Of Preset Sound Settings	6

## Troubleshooting Guide

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-0850X with the side that has the connection for the controller going away from the PXE-0850X.
		A PC can't be plugged into the PXE-0850X 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-0850X and have use of the controller at the same time. Disconnect the app.
2 Not getting full range 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-0850X to see what channels need to be mixed in more.
3 Top light on PXE-0850X 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 vehicle is shut off.	The PXE-0850X 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-0850X the Bluetooth extension light will stop flashing and the light will go steady.

## Limited Warranty

ALPINE ELECTRONICS OF AMERICA, INC. ("Alpine"), is dedicated to quality craftsmanship and are pleased to offer this Warranty. We suggest that you read it thoroughly. Should you have any questions, please contact your Dealer or contact Alpine at one of the telephone numbers listed below.

### ● PRODUCTS COVERED:

This Limited Warranty ("Limited Warranty") covers Alpine Car Audio Products and Related Accessories ("the Product"). Products purchased in Canada are only covered in Canada. Products purchased in the U.S.A. are only covered in the U.S.A.

### ● LENGTH OF WARRANTY:

This Warranty is in effect for one year (1) from the date of the original retail purchase of the Product.

### ● WHO IS COVERED:

This Warranty only covers the original purchaser of the Product, who must reside in the United States, Puerto Rico, or Canada.

### ● WHAT IS COVERED:

This Warranty covers defects in materials or workmanship (parts and labor), under normal use, in the product.

### ● WHAT IS NOT COVERED:

This Limited Warranty does not cover the following:

- ① Damage occurring during shipment of the Product to Alpine for repair (claims must be presented to the carrier).
- ② Damage caused by normal wear and tear, accident or abuse, including burned voice coils caused by over-driving the speaker (amplifier level is turned up and driven into distortion or clipping). Speaker mechanical failure (e.g. punctures, tears, or rips). Cracked or damaged LCD panels. Dropped or damaged hard drives.
- ③ Damage caused by negligence, misuse, improper operation, or failure to follow instructions contained in the Owner's manual.
- ④ Damage caused by act of God, including without limitation, earthquake, fire, flood, storms, or other acts of nature.  
Any cost or expense related to the removal or reinstallation of the product.
- ⑤ Service performed by an unauthorized person, company, or association.
- ⑥ Any product which has the serial number defaced, altered, or removed.
- ⑦ Any product which has been adjusted, altered, or modified with Alpine's consent.
- ⑧ Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
- ⑨ **Any product not purchased from an Authorized Alpine dealer.**

### ● HOW TO OBTAIN WARRANTY SERVICE:

- ① You are responsible for delivery of the Product to an Authorized Alpine Service Center or Alpine for repair and for payment of any initial shipping charges. Alpine will, at its option, repair or replace the product with a new or reconditioned product without charge. If the repairs are covered by this Limited Warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges. The repaired or replaced Product will continue to be covered under the original Limited Warranty period.
- ② You should provide a detailed description of the problem(s) for which service is required.
- ③ You must supply proof of your purchase of the product.
- ④ You must package the product securely to avoid damage during shipment. To prevent lost packages it is recommended to use a carrier that provides a tracking service.

This Limited Warranty is provided by ALPINE ELECTRONICS OF AMERICA, INC., whose principal office is at 1500 Atlantic Blvd. Auburn Hills, MI 48326, U.S.A.

**Do not send products to this address.**

Call the toll-free number or visit the website to locate a service center.

### ● HOW WE LIMIT IMPLIED WARRANTIES:

ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON OR THIRD PARTY IS AUTHORIZED TO ADD, MODIFY, OR EXTEND THE TERMS OF THIS LIMITED WARRANTY AND/OR ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

### ● HOW WE EXCLUDE CERTAIN DAMAGES:

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, ALPINE AND ITS PARENT COMPANY AFFILIATES AND SUBSIDIARIES EXPRESSLY DISCLAIM LIABILITY TO YOU UNDER ANY THEORY OF LIABILITY FOR ALL INCIDENTAL, INDIRECT DAMAGES, SPECIAL PUNITIVE, AND CONSEQUENTIAL DAMAGES WHICH MAY BE INCURRED BY YOU IN RELATION TO THE PRODUCT. THE TERM INCIDENTAL DAMAGES INCLUDES, BUT IS NOT LIMITED TO, COSTS AND EXPENSES OF TRANSPORTING THE PRODUCT TO THE ALPINE SERVICE CENTER, LOSS OF THE ORIGINAL PURCHASER'S TIME, LOSS OF THE USE OF THE PRODUCT, BUS FARES, CAR RENTALS OR OTHER COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM CONSEQUENTIAL DAMAGES INCLUDES, BUT IS NOT LIMITED TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THIS LIMITED WARRANTY AND THE REMEDIES PROVIDED HEREUNDER ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THE TOTAL LIABILITY OF ALPINE, ITS PARENT COMPANY, AFFILIATES, AND SUBSIDIARIES IN CONNECTION WITH THIS LIMITED WARRANTY AND/OR THE PRODUCT SHALL NOT EXCEED THE AMOUNT YOU ACTUALLY PAID FOR THE PRODUCT.

### ● HOW STATE/PROVINCIAL LAW RELATES TO THE WARRANTY:

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state and province to province. In addition, some states/provinces do not allow limitations on how long an implied warranty lasts, and some do not allow the exclusion or limitation of incidental or consequential damages. Accordingly, limitations as to these matters contained herein may not apply to you.

In any of the terms this Limited Warranty are held to be null, void, illegal or unenforceable for any reason, the remaining terms of this Limited Warranty will remain in full force and effect.

### ● IN CANADA ONLY:

For warranty service in the Canadian market contact:

Phone: (905) 513-7733	Fax: (905) 513-7740
Email: info@gentec-intl.com	

Or visit our website at <http://www.alpine-canada.com>

### ● HOW TO CONTACT CUSTOMER SERVICE:

Should the product require service, please call the following number for your nearest Authorized Alpine Service Center:

CUSTOMER SERVICE:	1-800-421-2284, ext. 860304
TECH SUPPORT:	1-800-TECH-101 (1-800-832-4101)

Or visit our website at <http://www.alpine-usa.com>