Installation Manual

Complete Audio System Upgrade Package
Direct Fit for Polaris® RZR® Vehicles

Make: Polaris Model: RZR** Year: 2018 - Up	**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.

Introduction

Congratulations on purchasing the PSS-PRZR. This installation manual is designed to take you through the step-by-step installation of PSS-PRZR into a 201X-Up Polaris RZR. Please familiarize yourself with the owners manual as this is a challenging installation. 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. This is an installation that is challenging and time consuming even for installers with experience. A professional installer would typically take a minimum of 4-6 hours to complete this installation. 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.

Explanation 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.

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 those 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**

Since this vehicle has two batteries, disconnecting the battery is not a good option. Take caution when testing circuits. 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 willl 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 passengerside 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. ⚠️
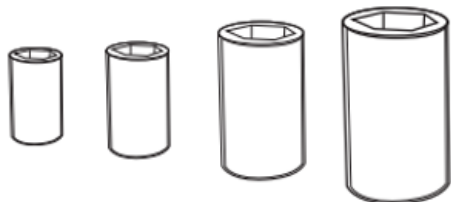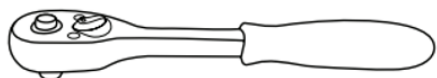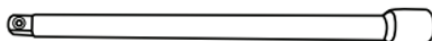
Tool List

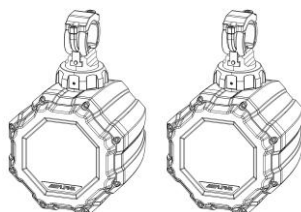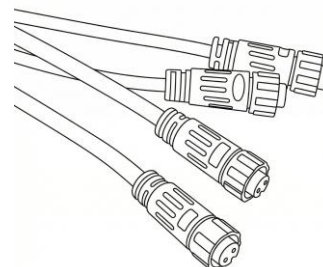| Metric Socket Set	Panel Removal Tools	Pliers
Ratchet	Extension	Torx – T25
#2 Screw Driver	Hex Wrench	Cordless Drill
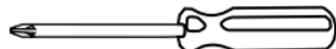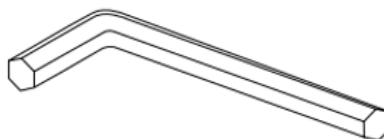
Parts List
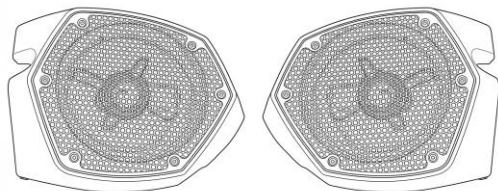
Dash Pods	Rear Speaker Cans	Speaker Can LED Wires
Subwoofer	**Subwoofer Bracket**	**Radio Antenna**
Amplifier Bracket	**KTA-30MW**	**KTA-30FW**
Upper Radio Bezel	**Radio**	LED Controller and Media Hub
Main Harness	**Secondary Harness**	Cable Ties and Bolts
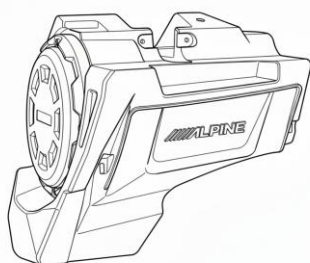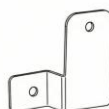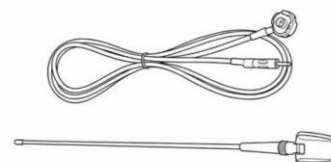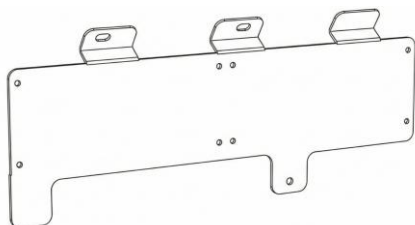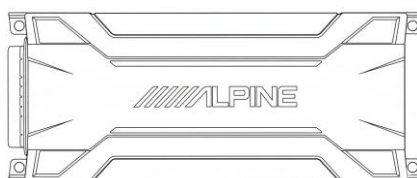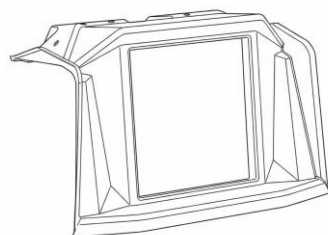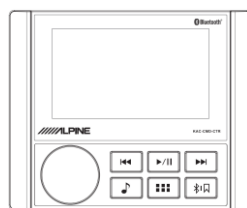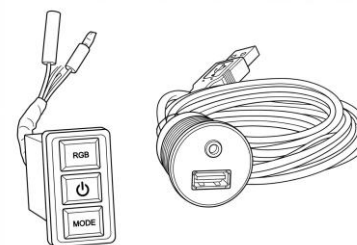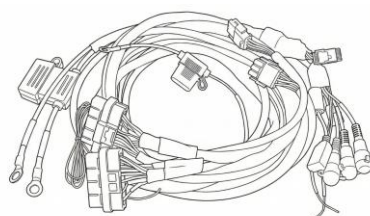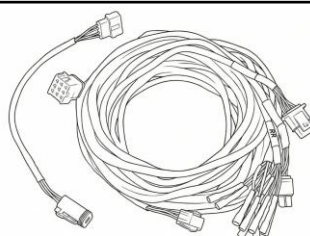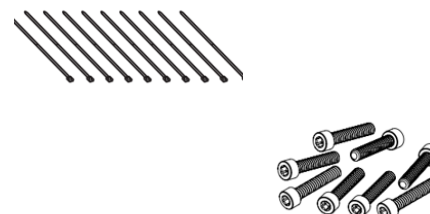
6. If your vehicle has the Ride Command or other ECU installed in the top dash position, proceed to removing the lower Pocket. You will required to use KTX-RZR-LRB for that installation (sold separately).

KTX-RZR-LRB
(Sold Separately)

Disassembly Instructions

1. Remove the negative terminal of the battery
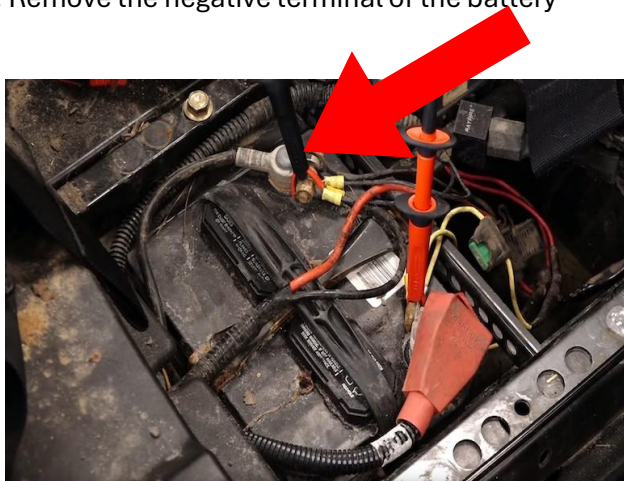
2. Remove the hood by twisting the tabs at the upper left and right corners. Remove by pulling upwards
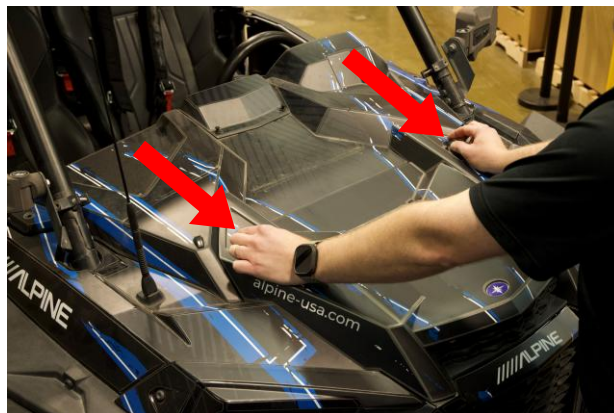
Next remove the dash top cover pulling the 2 push clips shown in the picture. It either covers the Ride Command or pocket.
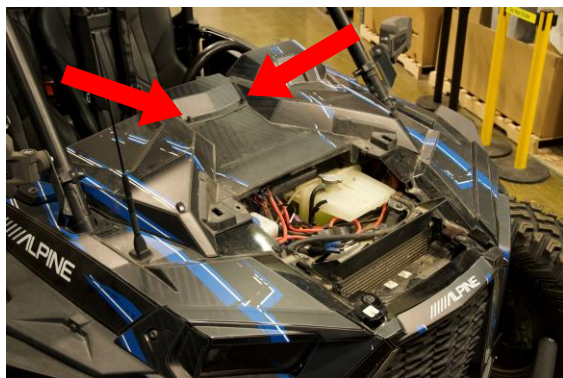
4 Remove 4 T40 screws as shown in the picture. 2 are back by the rollbars, 2 are in the front on either side of the coolant bottle

5. Carefully lift the trim piece up

6. Remove 6 T40 bolts at the top of the dash. If removing the lower bucket, there is an additional t40 bolt hiding under neither the ECU. Move the ECU out of the way and undo the bolt.

Hidden T40
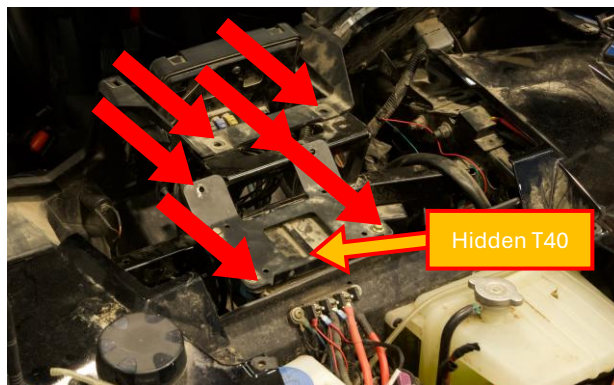
7. Pull pin to remove T-Bar. T-Bar will slide out towards the seat.

9. Ensure to disconnect any connectors such as USB port based on factory features.

11. Remove 2 T40 bolts on either side of the Ride Command. If no ride command, bolts will be above the switch bank.

8. Remove the lower pocket by pushing down slightly and pulling out.

10. Remove 2 pushpins in the bottom to remove the passenger side cubby bin from dash.

12. Begin to gently pry the plastic dash cover using a trim stick.

13. Continue to gently pull the dash panel until all clips are removed.

14. Carefully balance the dash on the steering column being careful not to put too much strain on the wire harness connectors

15. Remove glove box compartment by removing the 2 10mm bolts on the top

16. Next remove both driver and passenger seats by pulling up on the lock clip located in seam at the back of the seat bottom. Seats will pull up and out.
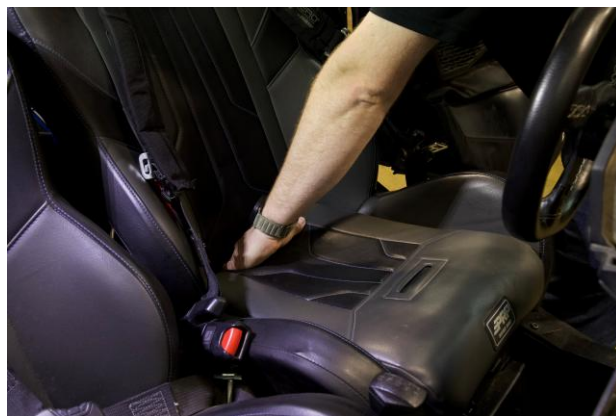
17. Next remove trim clips on both sides of the center column and remove the center console.

Amplifier Assembly and Installation

1. On a work surface, begin by attaching the amplifiers to the bracket using the screws provided in the amplifier kit. Please ensure the KTA-30FW is mounted on the left side of the bracket per the photo. KTA-30MW is mounted on the right side per the photo.

2. Route the power cable down through the hole at the top of the dash. The power fuse, ground, and acc wires will be routed through the space in the dash.

4. Route the other end of the wires through the dash to the correct components. The passenger side harness will also have the subwoofer wire. The amplifier connectors will remain on the top of the dash as shown in the picture.

6. Next plug in the KTA-30MW on the driver side with the connector from step 5.

3. Next pull the power fuse, ground, and acc wires through the hole in the dash below the bus bar.
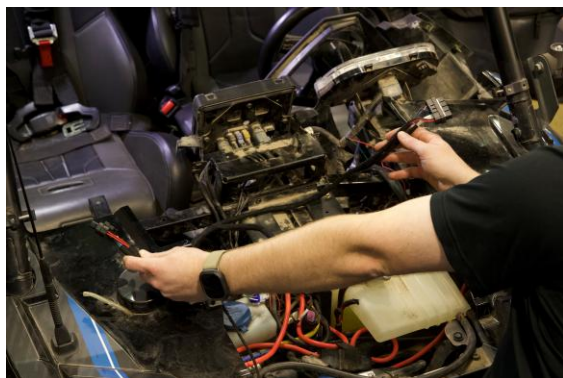
5. If harness is installed correctly, the cable with the white wires will be on the drivers side.

7. Next plug in the KTA-30FW on the passenger side.

8. Bolt down the amplifier bracket using 2 t40 bolts

9. Next install the ACC, Ground and Power wires to the bus bar
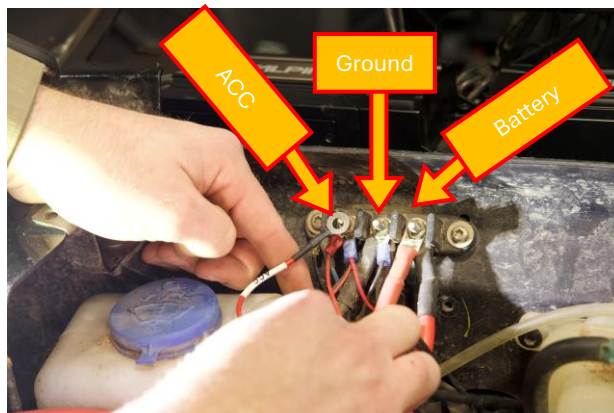
Subwoofer Instalation

1. On a work surface, attach the subwoofer bracket to the subwoofer using the included 10mm bolt.

2. Ensure the bracket is straight when tightening the bolt

3. Slide the subwoofer enclosure into the passenger side below the T-Bracket holder. Hook the bracket installed in previous step on the metal bar.

4. The bracket will help hold the subwoofer while you bolt it in.

5. Install the 2 10m bolt at the top of the subwoofer on either side of the T-bar handle mount

- 6. Next mount the 2 Phillips screws included into the bottom of the subwoofer to the dash

7. Route the subwoofer speaker cable and connect it to the top of the subwoofer.
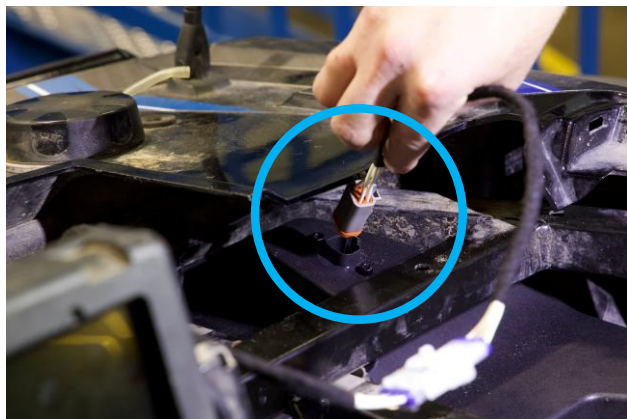
Front Pod Assembly

1. On a work surface, remove the 2 screws from the Pod Grill

2. Remove the 2 screws from the speaker

3. Remove the speaker and crossover network from the pod.

4. Remove the backing for the sticky patch on the back of the speaker

5. Attached the crossover network to the sticky patch from step 4

6. Set speaker assembly aside until the pod is installed in the vehicle.

7. Insert the 2 bolts and washer from inside the pod. Place the metal standoff on the bolt on the outside of the pod

8. Ensure the metal standoff remains on the bolt while installing the pod in the vehicle.

Front Pods Installation

1. Route the speaker wire to the respective side of the vehicle. FR is front passenger side.

2. Connect the pod to the vehicle through the dash opening
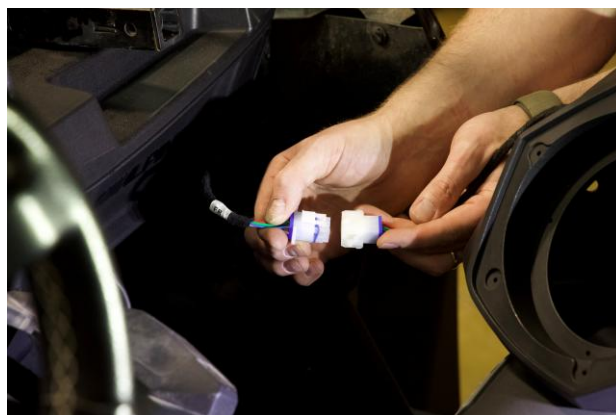
3. Position the pod under the dash

4. Install 2 bolts inside the speaker can to the vehicle dash. Ensure the metal standoff remain on the bolt outside the can.

5. Plug in the speaker cable to the speaker network.
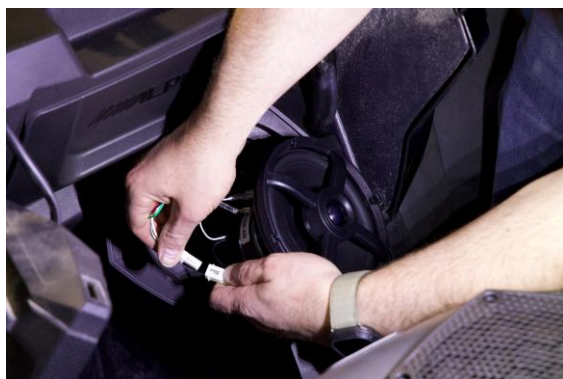
6. Connect the RGB lighting wires to the speaker.

7. Align the speaker screw holes to the pod.

9. Attach the speaker grill

8. Screw in the speaker using 2 screws we removed during the speaker prep. and 2 additional screws included in the kit hardware.

10. Use screws removed during the pod prep. The remaining screws are included in the hardware kit.

10. Repeat for the driver's side

Rear Pod Installation
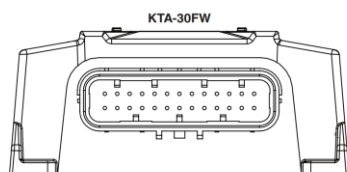
KTA-30FW

NOTE: This amplifier is not included with the product. This is an example of how the speakers can be powered with this specific model amplifier.

26

14

13

1

Switched +12V (Red)

Ground (Black)

RGB+ (Black)

Red- (Red)

Green- (Green)

Blue- (Blue)

RGB

MODE

Rear Right Speaker Output Purple (+)

Front Right Speaker Output Grey/Black (-)

Rear Left Speaker Output Green/Black (-)

Front Left Speaker Output White (+)

To Right White (+)

To Right Black (-)

To Left Black (-)

To Left White (+)

To Right Pod Speaker Terminal

To Left Pod Speaker Terminal
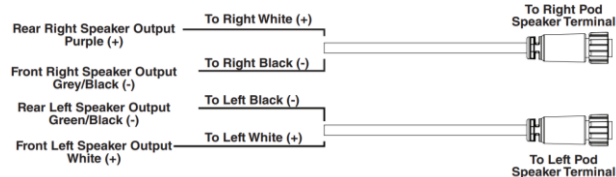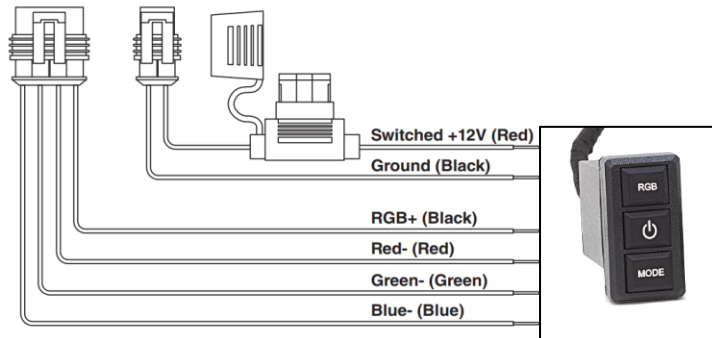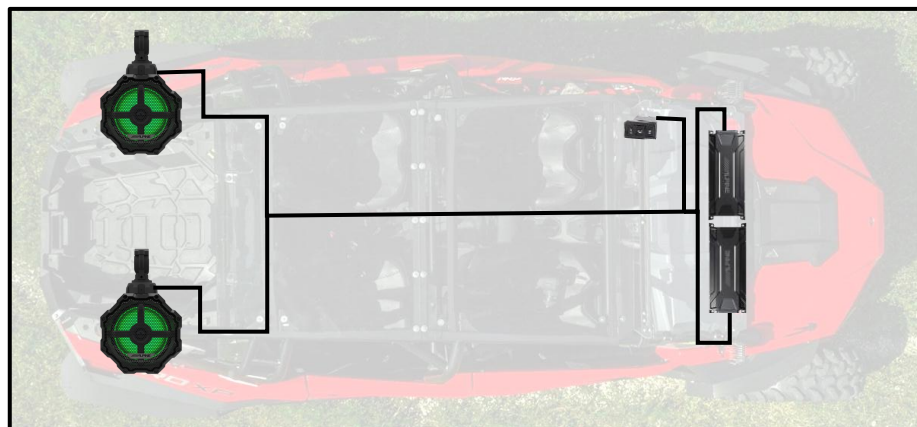
1. Follow the instructions for can assembly and mounting process on page 57

2. Route the wiring per the diagram down the center console and up the roll bar to the pod locations

//////ALPINE
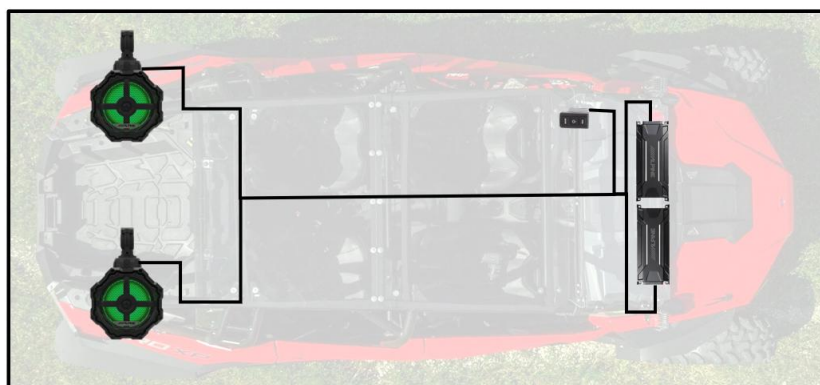
RGB Controller

1. RGB Controller   Connect the 3 wires

Push in switch

Radio Installation Upper Location

1. If using the upper radio mount, install the radio into the included plastic housing and screws. Skip this step if using the Lower mounting bucket accessory (not include).

2. Ensure the radio harness was routed to the top of the dash. Plug in the radio connector.

3. If using a radio antenna, connect it now also.

If using the KTX-RZR-LRB lower mounting bucket (Sold Separately), it mounts below switches in place of the bucket removed in the Step 8 on Page 8

KTX-RZR-LRB
(Sold Separately)

4. Ensure the 2 clips on the back of the upper radio mount align to the dash.

- 4. If using KTX-RZR-LRB, ensure the wire harness is routed to the lower bucket. The lower radio bucket will mount below the switch back first. Push the bucket in until flush. Connect the harness and then mount the radio to the bucket.

Vehicle Reassembly Notes

Step	Description	Reference
1	Ensure Dash and Body Panels are reattached	
2	Ensure seats are reinstalled properly	
3	Ensure seat belts are installed and functioning properly	
4	Ensure battery negative terminal is reconnected	
5		
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Installation Manual

KAC-CMD-CTR Commander Radio
Direct Fit for UTV

Location of Controls
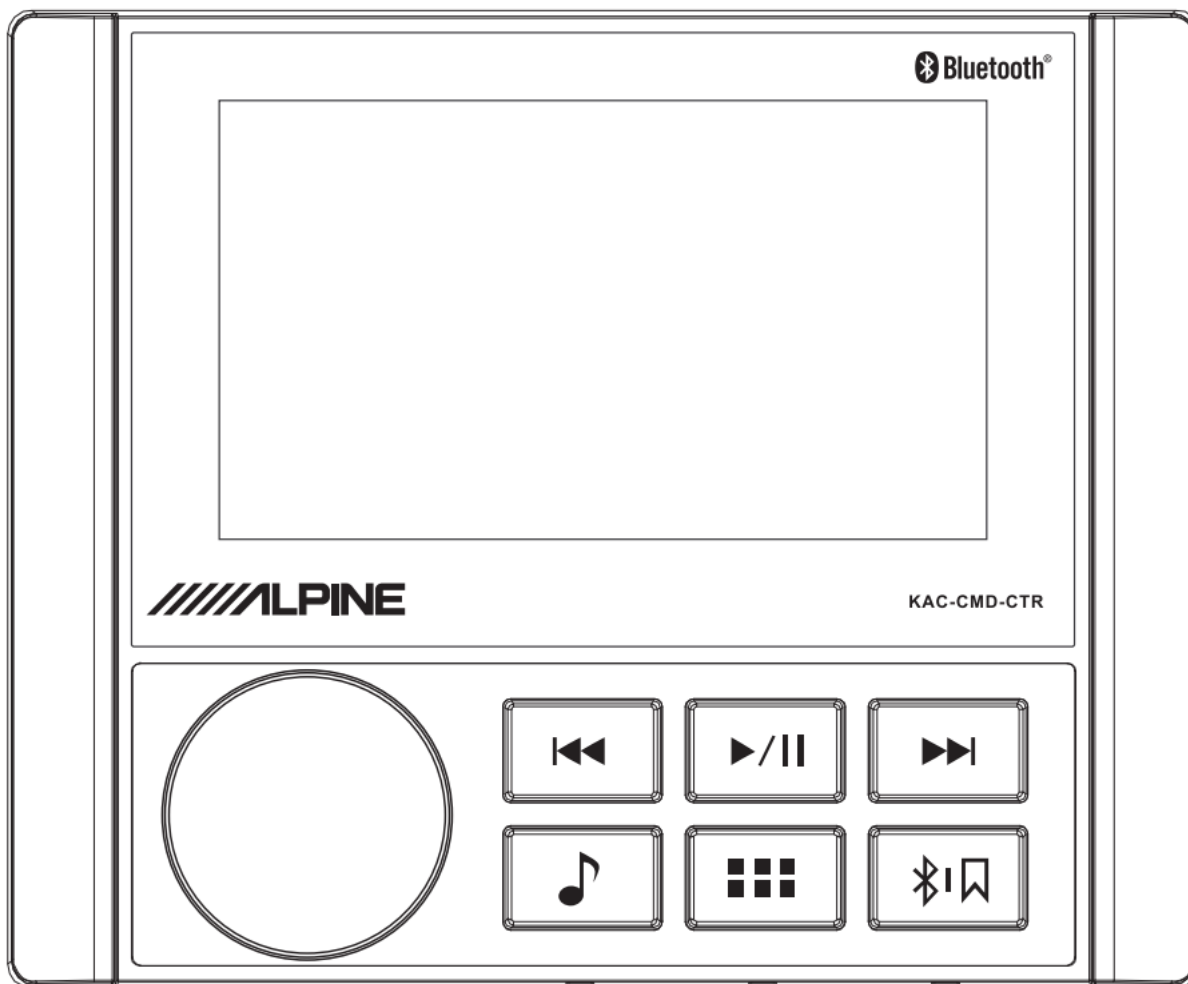
Turning Power On or Off

1 Turn the ignition key to the ACC or ON position. The system turns on.

- When turned on, the system displays the last screen that was displayed before the ignition key was turned off. For example, if the unit is in radio mode when ignition is turned off, it will remain in radio mode when ignition is turned back on.

2 Touch and hold the Music Symbol ♪ (Source Button/Power Off) button for at least 2 seconds to turn the power off/on.

- The unit is a precision device. Careful handling of the unit should provide you with years of trouble-free operation.

Installation

Caution concerning the installation location:

This Unit has two mounting options.
The first is a marine industry standard 3-inch round mounting hole with a universal U mount rear bracket. The second mounting option allows you to secure the faceplate of the radio via 4 hidden corner screws. If your application requires you to cut the required 3-inch hole please make sure to verify that the location you choose is free from all wires, cables, or devices behind the location you plan to cut. Once the hole is cut, please use the either the rear U bracket or the four front screws to securely mount the unit.
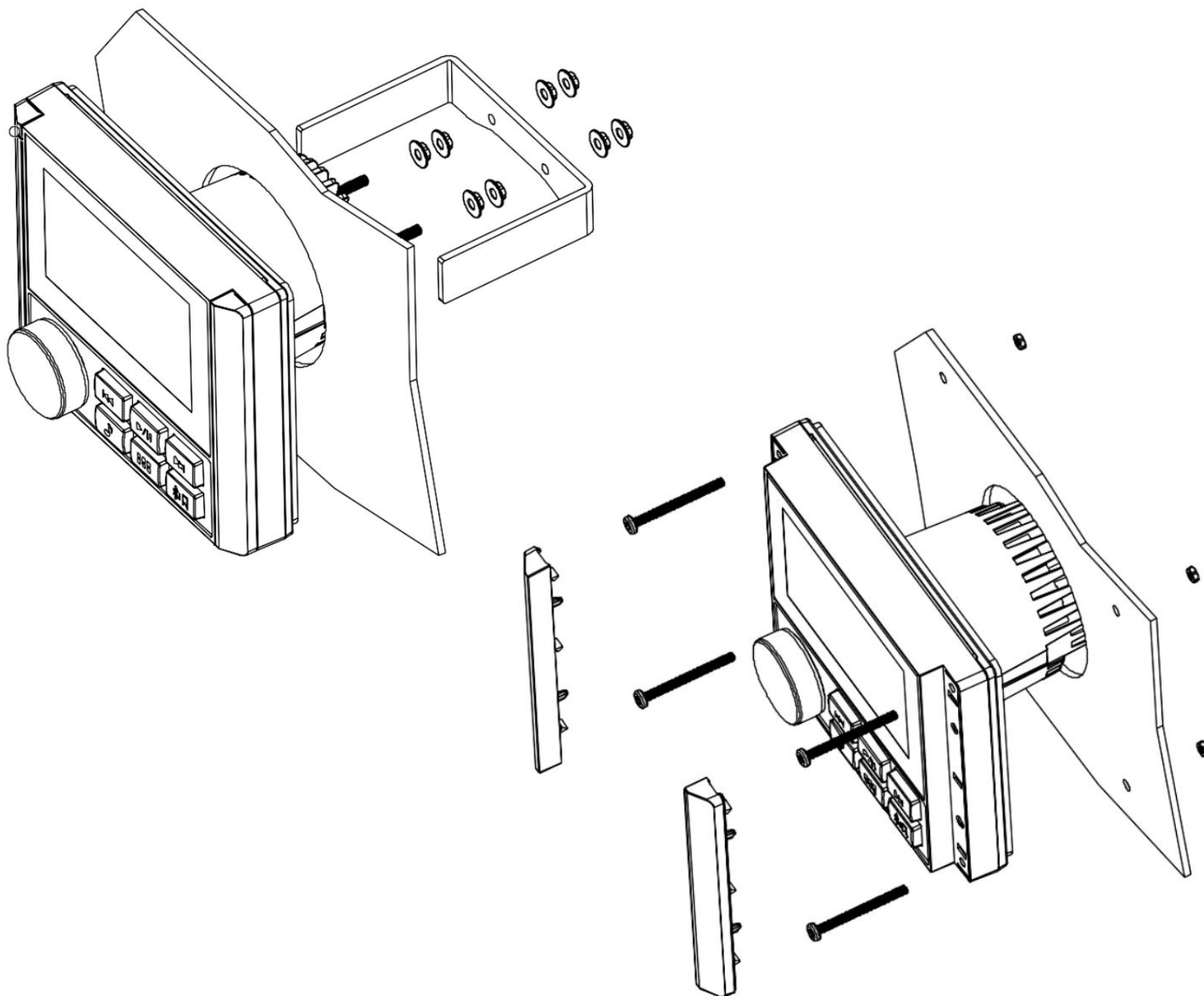
Connections

To securely connect the ground lead, use an already installed screw on a metal part of the vehicle (marked ( )) or a clean, bare metal spot on the vehicle's chassis.

Fix the cables carefully. Do not damage them by mounting them into movable parts, such as the seat rail, or by locating them against sharp or pointed edges.

A VIEW   B VIEW

UNIT	FUNCTION	COLOR
1	Power	Red
2	Front Left -	White/Black
3	Front Left +	White
4	ILL	Orange
5	Front Right -	Grey/Black
6	Front Right +	Grey
7	Amp Turn On	Blue/White
8	Rear Left -	Green/Black
9	Rear Left +	Green
10	GND	Black
11	Rear Right -	Violet/Black
12	Rear Right +	Violet

BLACK — RADIO ANTENNA

BLACK — USB

PINK — REVERSE

BROWN — AUX_DET_IN

BLACK — AUX_RIN — Red

BLACK — AUX_LIN — White

YELLOW — SUB1 — Red

YELLOW — SUB2 — White

GREEN — LINE_RL — White

GREEN — LINE_RR — Red

GREY — LINE_FL — White

GREY — LINE_FR — Red

YELLOW — CAMERA_CVBS — Yellow

A VIEW

B VIEW

Power	Red	
Front Left -	White/Black	
Front Left +	White	
ILL	Orange	
Rear Left -	Green/Black	
Rear Left +	Green	

Blue/White	Amp Turn On
Grey/Black	Front Right -
Grey	Front Right +
Black	GND
Violet/Black	Rear Right -
Violet	Rear Right +

15A FUSE

Radio Antenna Receptacle

Remote Turn-On Lead (Blue/White)
Connect this lead to the remote turn-on lead of your amplifier or signal processor.

Reverse Lead + (Pink) Activates back up camera input

Right Rear (+) Speaker Output Lead (Violet)

Right Rear (–) Speaker Output Lead (Violet/Black)

Right Front (+) Speaker Output Lead (Gray)

Right Front (–) Speaker Output Lead (Gray/Black)

Left Front (+) Speaker Output Lead (White)

Left Front (–) Speaker Output Lead (White/Black)

Left Rear (+) Speaker Output Lead (Green)

Left Rear (–) Speaker Output Lead (Green/Black)

Switched Power Lead (Ignition) (Red)
Connect this lead to an open terminal on the vehicle's fuse box or another unused power source that provides (+) 12V only when the ignition is turned on or in the accessory position.

Ground Lead (Black)
Connect this lead to a good chassis ground on the vehicle. Make sure the connection is made to bare metal and is securely fastened using the sheet metal screw provided.

REAR CAMERA Input RCA Connector (Yellow)
Use when connecting a camera with RCA Output Connector.

Rear Output RCA Connectors
Can be used as Rear Output RCA Connectors. RED is right and WHITE is left.

Front Output RCA Connectors
Can be used as Front Output RCA Connectors. RED is right and WHITE is left.

Subwoofer RCA Connectors
RED WHITE is mono

AUX INPUT RCA Connectors USB Connector
To USB flash drive.

If an ACC power supply is not available

Connection Diagram of SPST Switch (sold separately)
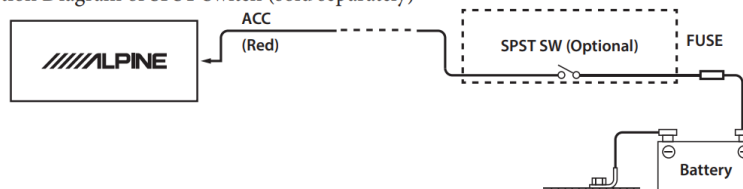
- *If your vehicle has no ACC power supply, add an SPST (Single-Pole, Single-Throw) switch (sold separately).*

Adjusting the Volume

Adjust the volume by turning the Volume knob right for volume up and left for volume down. 0-39 Steps.
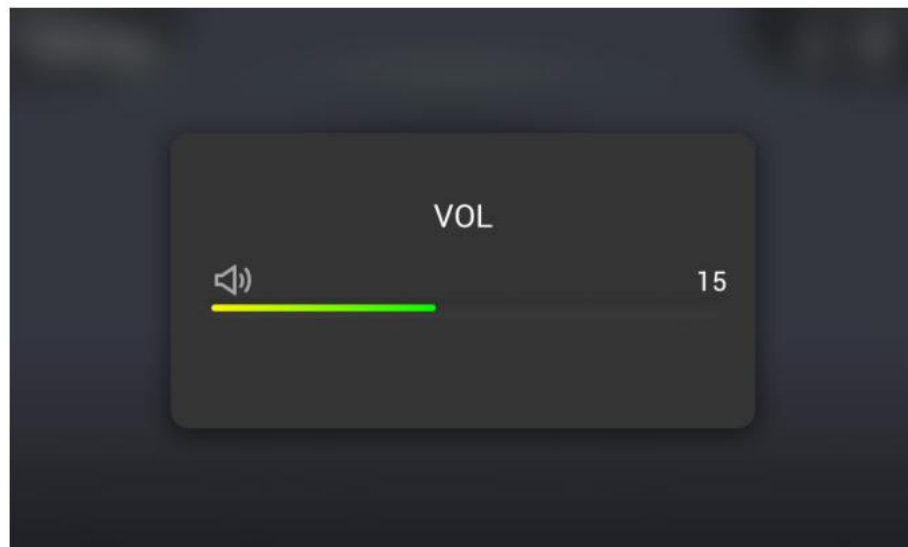
Adjusting the Sub Volume

Adjust the Sub volume by pressing in the knob on when on the main screen. Sub vol will pop up turning the Volume knob right for sub up and down 0-15. To exit press the volume knob in. (the unit will exit Sub volume automatically after 15 seconds of no interaction)
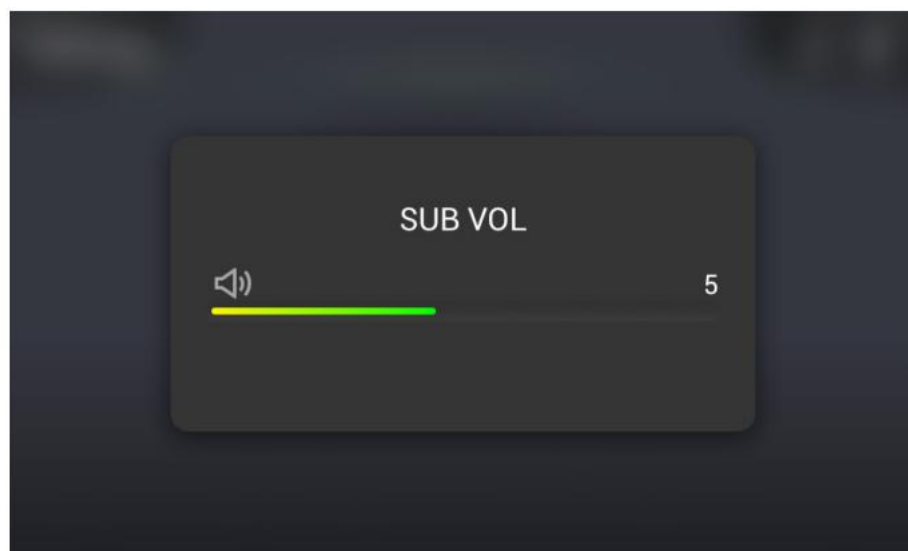
Switching Sources

Press the 🎵 button then use the knob to turn to the source you want and press in on the knob to choose the intended source. Once the source you want is highlighted push in on the knob to select.
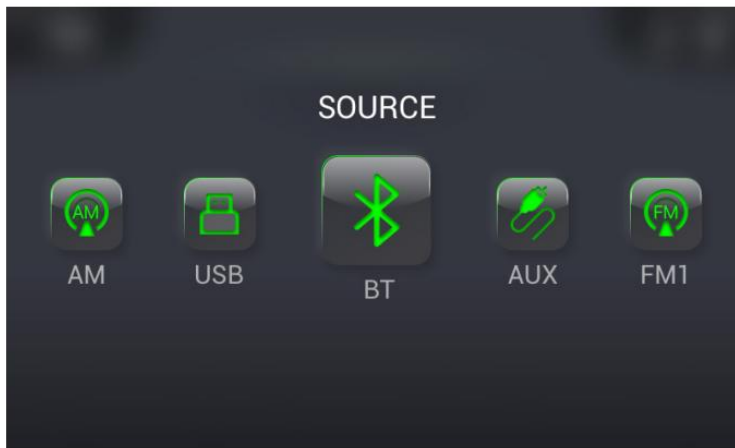
FM/AM

Listening to the Radio

1. To manually seek up.dn press the ⏮ ⏭ buttons momentarily. Use multiple presses to manually tune to your intended station.

2. To automatically seek up.dn press the ⏮ ⏭ buttons for 2 second the tuner will seek to the next available station .

Presetting Stations Manually

1. To save a station press the [⁕ⅼ◲] button. This will highlight the presets use the knob to scroll to the preset you want to save the current station to and press and hold the knob until the preset it saved. Press the [⁕ⅼ◲] button to exit preset menu.

2. Each Radio band can save up to 6 presets.

Presetting Stations Automatically

When in FM/AM press the Home button [▦] a new screen will pop up then choose Auto to have the unit scan and save the first six stations it finds. You can also turn RDS on and off on this screen. To exit press the [▦] button.
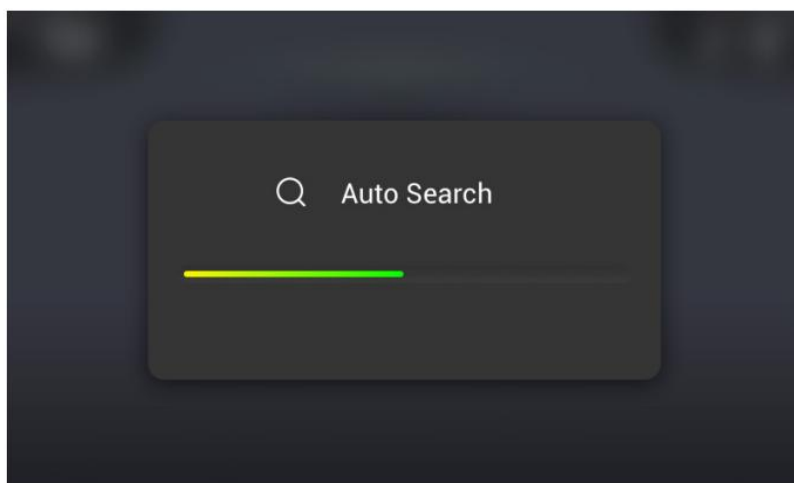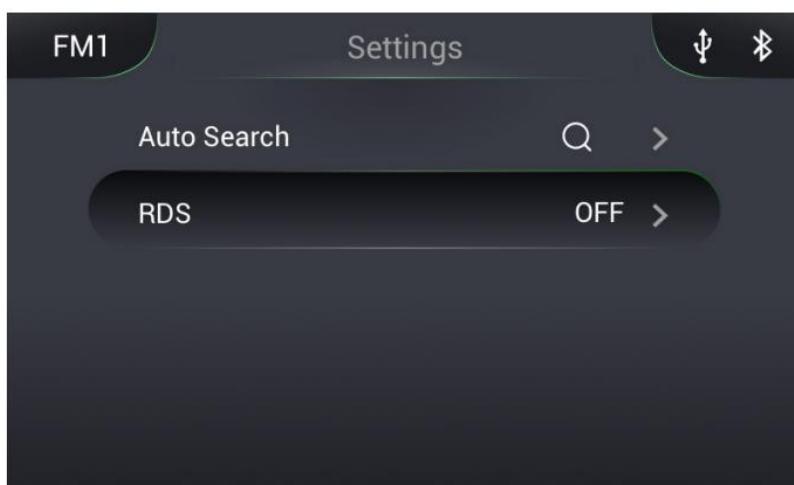
USB

1   Touch the [♪] and select USB mode. The display shows the USB mode screen. If no compatible USB device is installed, you will get the following notification.
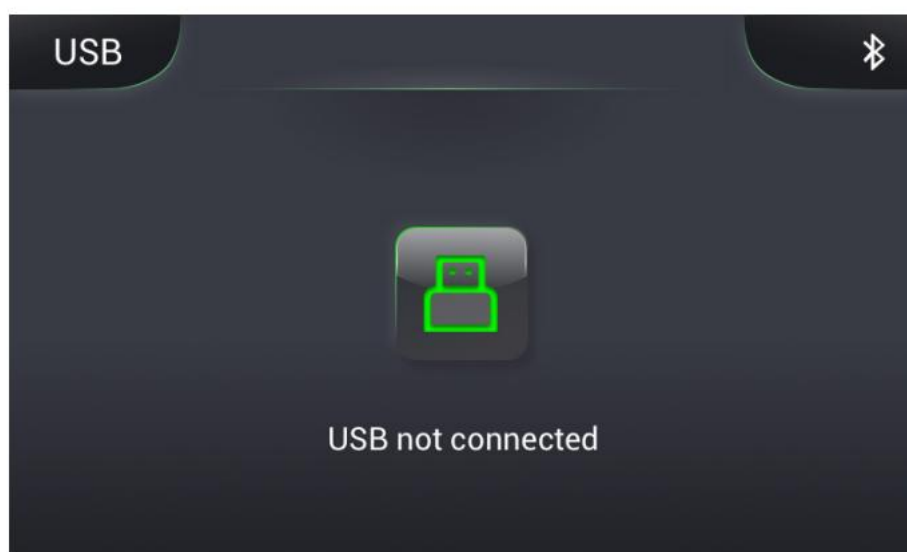
2   Plug in compatible USB with compatible audio tracks loaded on the USB the unit will scan the device and auto play.
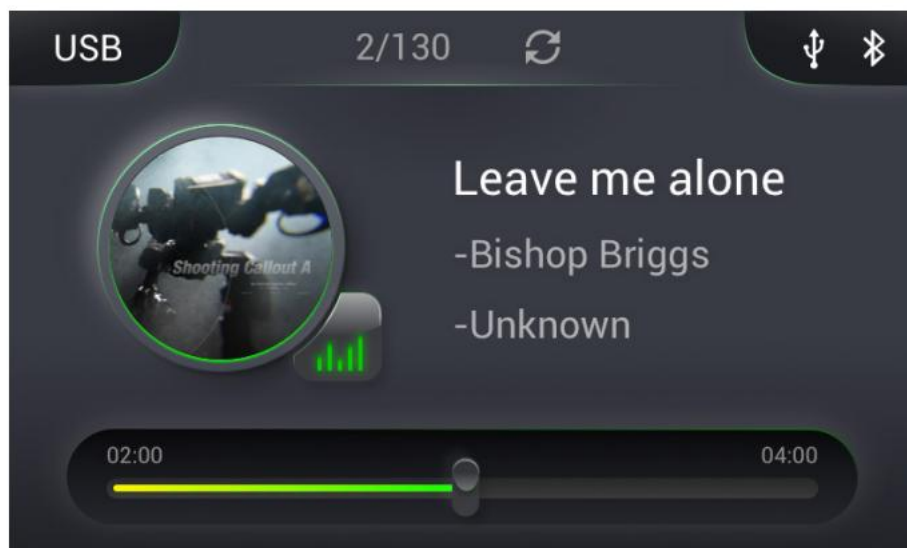
Repeat/Shuffle Play (USB Audio)

1   When in USB press the Home button [▦] **a new screen will pop up then choose Play Mode this will access Repeat One, Repeat All and Shuffle.**
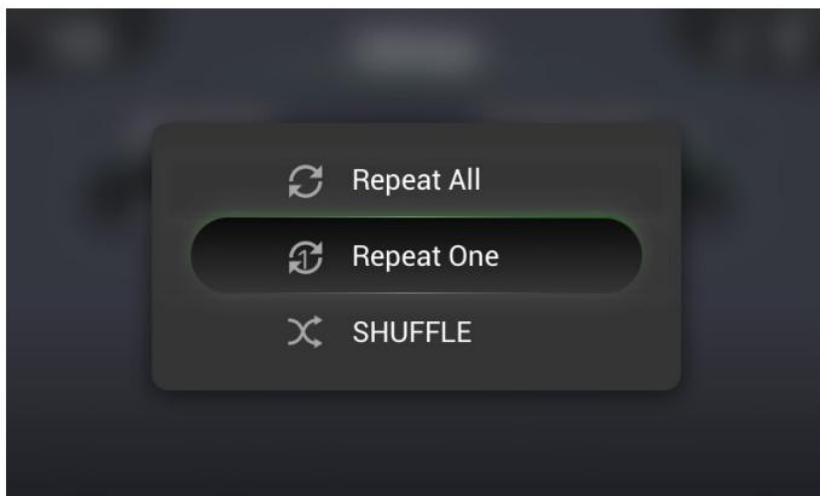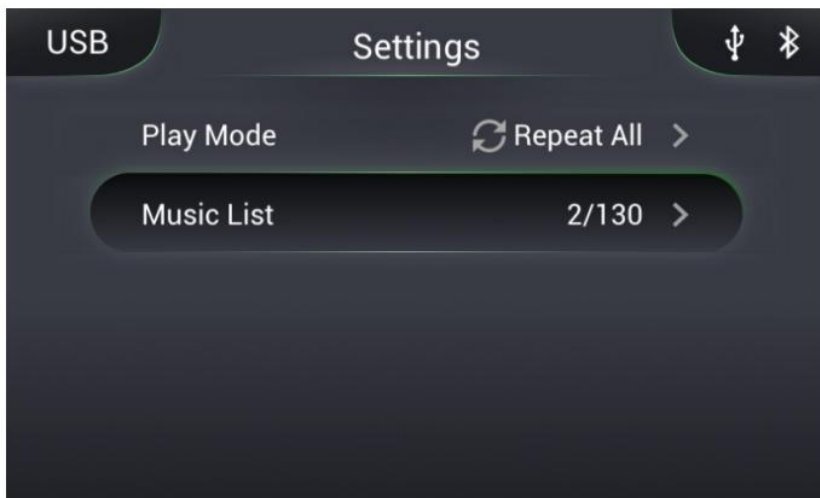
2   To pause playback, touch [▶/II] **. Press** [▶/II] **again to resume playback.**

- The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.
- If there is tag information, artist name/album name/track name is displayed.
- If there is no label information, no name is displayed.
- ID3 tag/WMA tag
  If an MP3/WMA/AAC/WAVE contains ID3 tag/ WMA tag information, the ID3 tag/WMA tag information is displayed. (e.g., song name, artist name, and album name)

Track up/Track down USB Audio

Press either [⏮] [⏭] the unit will track up/dn.

Fast-forwarding/Fast-reversing USB Audio

Press and hold either [⏮] [⏭] the unit will start FF or RWD the audio. Release to stop.

Bluetooth® Operation

Setup Before Using

About Bluetooth

Bluetooth is a wireless technology allowing communication between a mobile device or personal computer over short distances. This enables a hands-free call or data transmission between Bluetooth compatible devices. Bluetooth transmission is available in the unlicensed 2.4 GHz spectrum if the distance between devices is within 10 meters. For details, refer to the Bluetooth website (http://www.bluetooth.com/).

- Depending on the Bluetooth version, a Bluetooth compatible device may not be able to communicate with this unit.
- Proper function of this unit with all Bluetooth compatible devices is not guaranteed. For handling of the Bluetooth compatible device, consult your Alpine dealer or Alpine website.
- Depending on the surroundings, Bluetooth wireless connection may be unstable.
- When you place a call, or perform setup operations, be sure to stop your car in a safe place.
- Depending on the connected Bluetooth compatible device(s), the function may differ. Also refer to the Owner's Manual of the connected device(s).

Bluetooth® Audio

Register a Bluetooth device in this unit.

- **You can search for this unit using a Bluetooth compatible device, and then connect that Bluetooth compatible device to this unit. The device name of this unit is "KAC-CMD-CTR" upon first pairing a device code will pop up on your BT device click yes pair." Also refer to the Owner's Manual of the connected device(s).**

If a Bluetooth compatible mobile phone, portable player, etc. is connected by wireless, you can play back a song (operation is controllable from the unit).

- Operation may vary, depending on the Bluetooth compatible device.

1   Touch the [♪] and select BT mode. The display shows the BT mode screen. If no BT Device is paired, you will get the following notification.
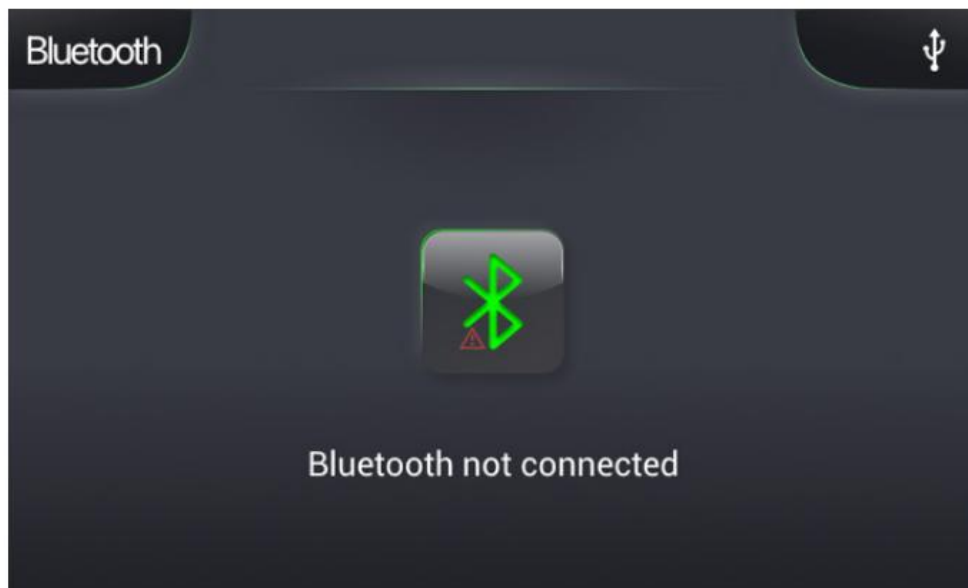
2   Pair a compatible BT device the unit once paired will try to auto play if the BT device supports it. (If BT device supports Artwork unit will show artwork)

To pause playback

Press ▶/‖ . Press ▶/‖ again to resume playback.

- The playback time may not be correctly displayed when a VBR (Variable Bit Rate) recorded file is played back.
- If there is tag information, artist name/album name/track name is displayed.
- If there is no label information, no name is displayed.
- ID3 tag/WMA tag

Track up/Track down BT Audio

Press either ◄◄ ►►‖ the unit will track up/dn.

Fast-forwarding/Rewinding BT Audio (if device supports it)

Press and hold either ◄◄ ►►‖ the unit will start FF or RWD the audio. Release to stop.

AUX Operation

1   Touch the ♪ and select Aux mode. The display shows the Aux mode screen.

AUX screen example
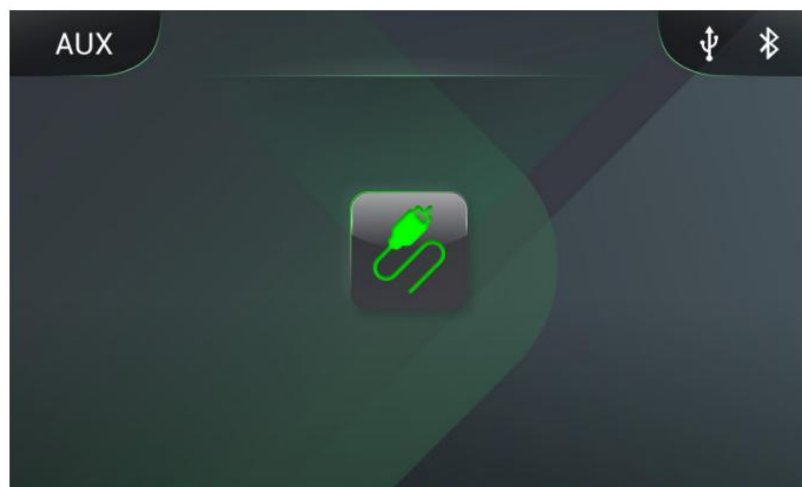
2   Optional AUX operation: This unit has an Aux enable wire that when switched to 12v+ will automatically switch this unit to the aux source to allow AUX audio to pass. When 12v+ is removed from the wire the unit will return to its previous source.

Camera Operation

Camera operation: This unit has a Camera enable wire that when switched to 12v+ will automatically switch this unit to the Camera video input. When 12v+ is removed from the wire the unit will return to its previous screen.

Dimmer

Dimmer operation: This unit has a Dimmer enable wire that when switched to 12v+ will automatically dim this unit to a desired brightness. When 12v+ is removed from the wire the unit will return to its previous screen. See Menu section for brightness adjustment.

Menu Function

To enter the MENU settings press [⦙⦙⦙] for more than 2 seconds. This will bring up the user menu as shown below. To Exit the Menu push the [⦙⦙⦙] while in the main Menu.

Settings	⇕ ✳
EQ	EQ1 >
Balance	0 >
Fader	0 >
Crossover	>
Screen/Lighting	3 >

Settings	⇕ ✳
Voltage Gauge	12.0V >
Key Sound	ON >
Tuner Region	USA >
Language	English >
Software Version	>
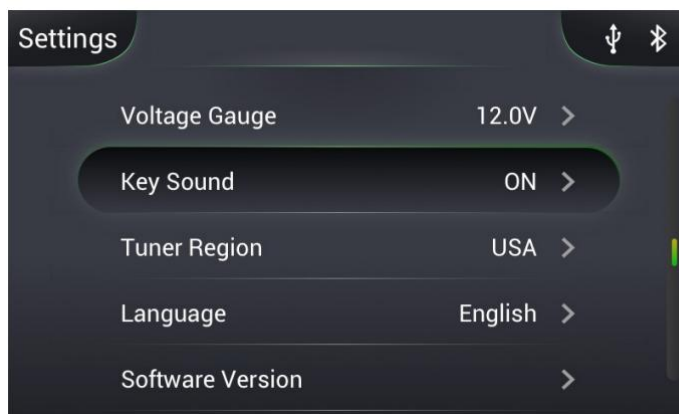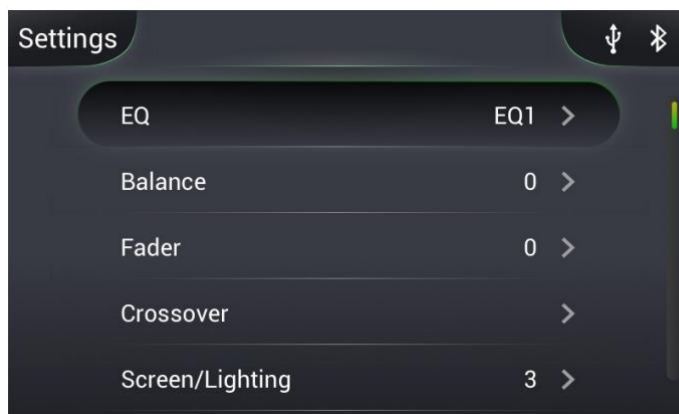
EQ

EQ Operation

Press the Knob to choose EQ then use the knob to scroll to the EQ preset you want to adjust then press in on the knob to choose that preset EQ. This unit has six EQ Memories with six bands of parametric EQ available for each memory as shown below.

Band 1: 20Hz-99Hz
Band 2: 100Hz-490Hz
Band 3: 500Hz-1900Hz
Band 4: 2kHz-3.8kHz
Band 5: 4kHz-7.5kHz
Band 6: 8kHz-20kHz
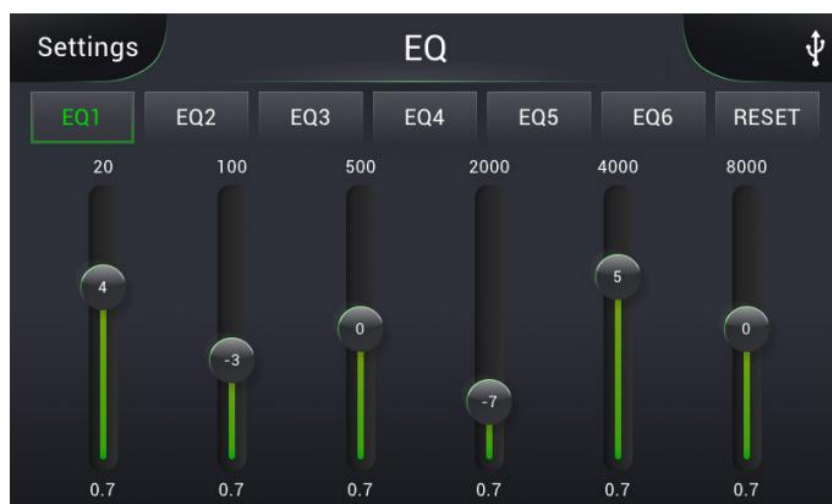
Use the knob to scroll through EQ1 to EQ6 to choose an EQ to adjust press in on the Knob. This will highlight the chosen EQ green around the slider and light up the frequency for that band. You can now use the Knob to scroll to each frequency band on that preset EQ. Once you find the band you want to change press in on the Knob.
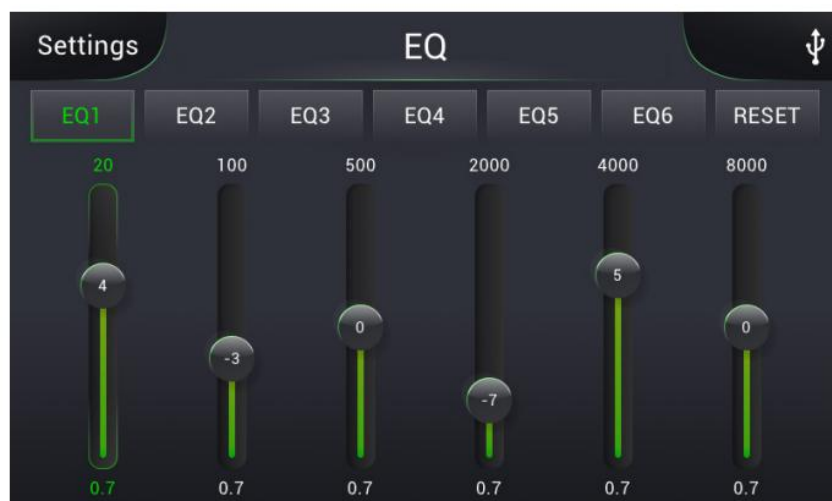
This will unhighlight the slider and just highlight the frequency. You can now turn the knob to adjust the band to the frequency you want to be the center of your EQ. Press and rotate the knob to adjust the current EQ frequency band gain value (from -12 to 12). Then press the knob to lock in the frequency and move to Gain Adjustment.

Gain adjustment this unit allows for up to 12 steps of boost or cut per band. Turn the knob left or right to adjust and press in to move to the bandwidth adjustment. You can adjust the width of the EQ from a Q of .7 to a Q of 4. (.7 is a very wide Q so it will affect a wider band of frequencies with 4 being a narrow Q that will affect a narrower band of frequencies.
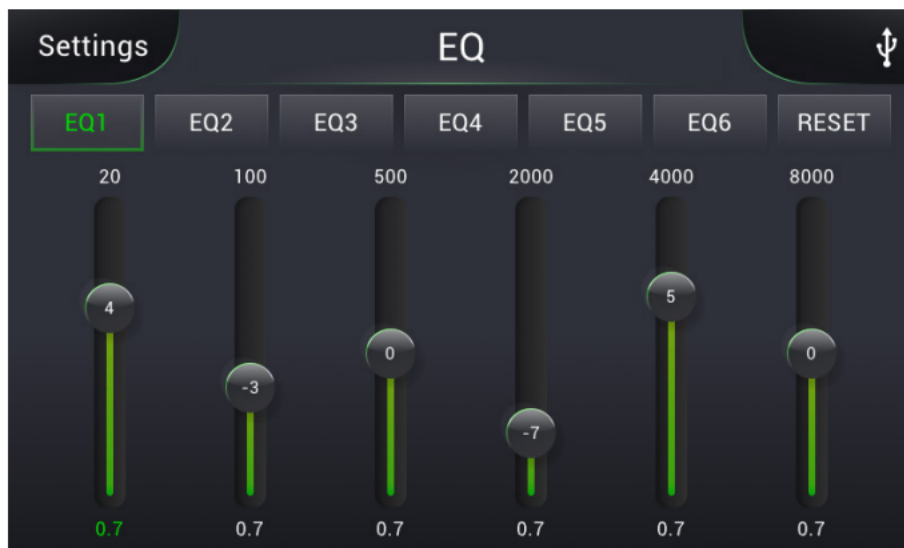
Press the knob again to highlight the Slider then you can use the knob to scroll to other bands to repeat the above process. When you are done adjusting the EQ press the ▦ once to be able to choose a different EQ preset or twice to return to the Main Menu.

If you want to reset the EQs to factory settings, please scroll to Reset then press in on the Knob. A warning will pop up select Yes.
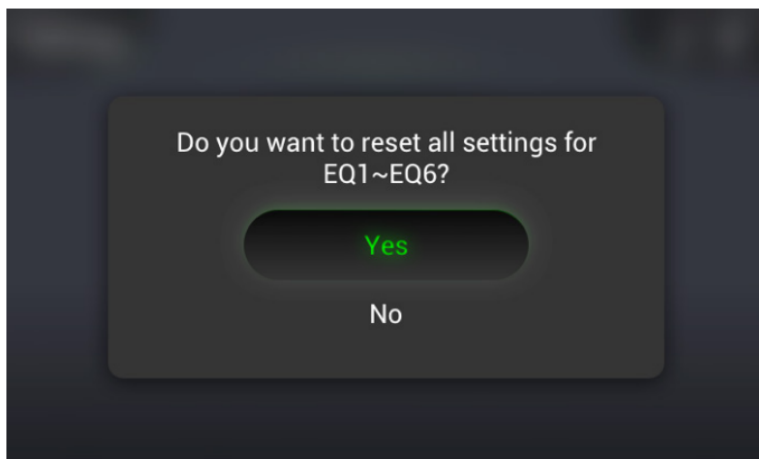
Balance

Press the Knob to choose Balance: then turn the knob to the right to balance to the right and left to balance to the left. Press in on the Knob to return to the Main Menu.

Fader

Press the Knob to choose Fader: then turn the knob to the right to fade to the Front and left to fade to the rear. Press in on the Knob to return to the Main Menu.

Crossover

Press the Knob to choose Crossover: This will pop up the main crossover menu. LP stands for Low pass and will control the Subwoofer out RCAS. HP stands for High pass and will control the front and rear speaker and RCA outputs. You have a couple of options within these menus.
Frequency: Off, 60Hz, 80Hz, 100Hz, 120Hz
Slope: 12dB, 24dB

Use the Knob toe scroll to your desired setting then press in on the Knob to select.
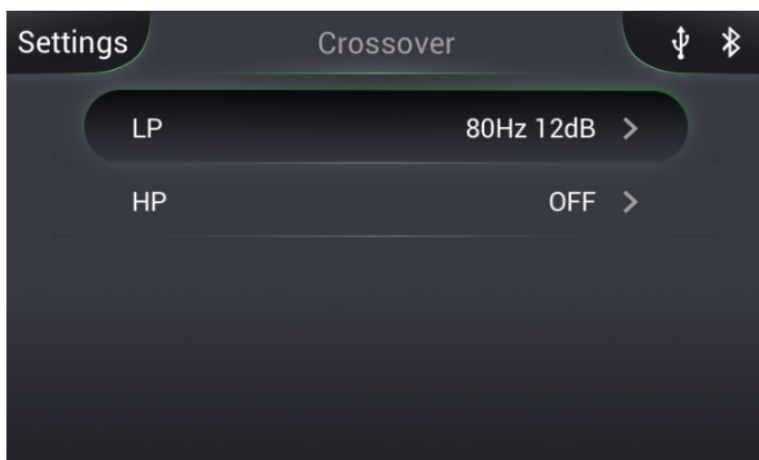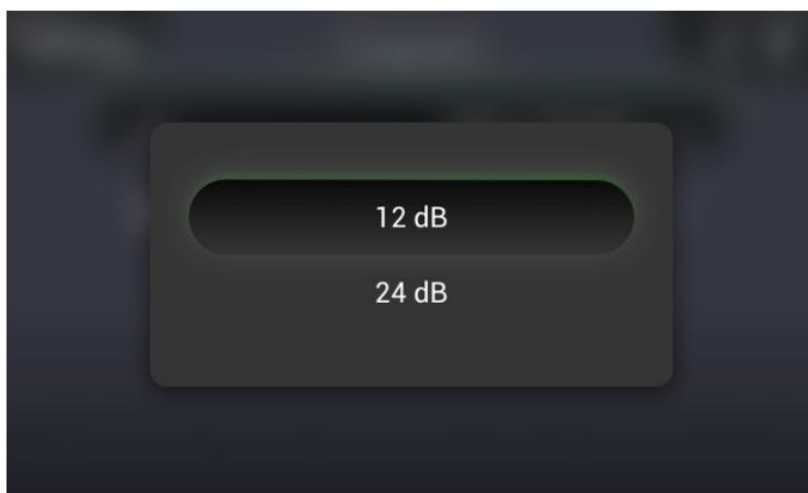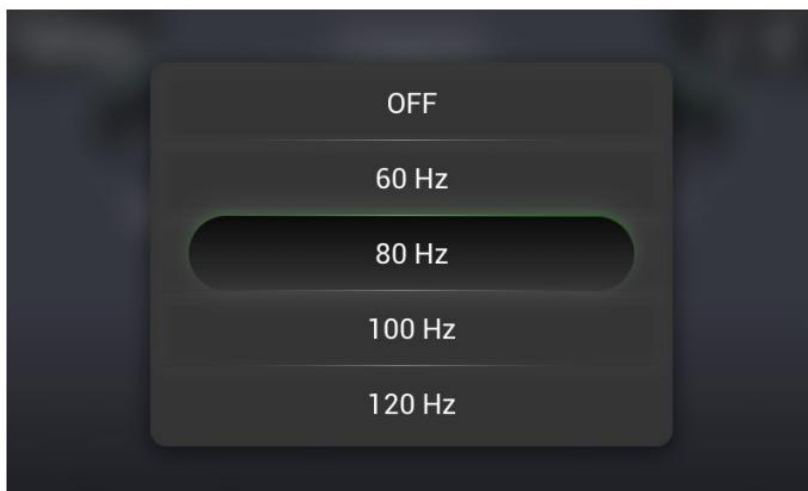
Press in on the [⠿] to return to the Main Menu.

Screen Lighting

Press the Knob to choose Screen Lighting: then turn the knob to the right to increase brightness or left to dim the brightness (1-5). Press in on the Knob to return to the Main Menu.

Voltage Gauge

Press the Knob to choose Voltage Gauge: This will pop up a larger display of the current Dc input voltage. Press in on the Knob to return to the Main Menu.

Key Sound

Press the Knob to choose Key Sound: This will pop up a larger display with Off and On option choose your option then press in on the Knob to return to the Main Menu.

Tuner Region

Press the Knob to choose Tuner Region: This will pop up a larger display with USA or Europe as options choose your option then press in on the Knob to return to the Main Menu.

Language

Press the Knob to choose Language: This will pop up a larger display with English or Spanish as options choose your option then press in on the Knob to return to the Main Menu.

Software Version

Press the Knob to choose Software Version: This will pop up a larger display with the info shown below. Press in on the Knob to return to the Main Menu.

Settings	Software Version	⇅ ✳
MCU	1810171230	
GUI	190530S233P	
Decode	1812100052	
Bluetooth	410B023	
Software Update	>	

Software Update

There are two types of Software that can be user updated on this unit this includes the MCU software and MPU software. If Alpine releases a Software update it will be available on the product page on our website at www.alpine-usa.com you will need to have a compatible USB drive to install these updates.

1. Download both MPU and MCU updated software.
2. Unzip the files and put them on a compatible USB drive.
3. Plug in USB drive to unit.
4. Unit should automatically come up and ask if you want to update.
5. Choose MCU first and push in on the knob to select choose Yes. Unit will take up to 1 minute to complete and will turn off and back on when finished.
6. Now choose MPU first and push in on the knob to select choose Yes. Unit will take up to 3 minute to complete and will turn off and back on when finished.

If the unit does not automatically ask you to update when you install the USB drive with the update files on it press and hold [⠿] for more than 2 seconds to enter the Main Menu. Then scroll down to Software version and push in on the knob to select. You will see Software update MCU and MPU click MCU first then click Yes. Follow the same process for MPU.

Warning do not turn off the unit or power during a Software update process this could damage the unit requiring it to be sent in for service!!!!!!

Factory Reset

Press the Knob to choose Factory Reset: This will pop up a larger display with Yes or No as options if you choose Yes the radio will reset all the settings back to the factory specifications and restart.

Information

About the Supported Formats

About Audio Format

Method for creating ACC, FLAC, MP2, MP3, M4A, OGG, WAV, WMA

Audio data is compressed using software with WAVE/WMA/AAC/ AC3/MPEG/Ogg/FLAC/ APE (USB Flash drive) codecs. For details on creating WAVE/WMA/AAC/AC3/MPEG/Ogg/ FLAC/APE(USB Flash drive files, refer to the user's manual for that software. WAVE/WMA/AAC/ AC3/MPEG/Ogg/FLAC/APE (USB Flash drive) files that are playable on this device have the file extensions.

WMA is not supported for the following files, Windows Media Audio Professional, Windows Media Audio 10 std or Windows Media Audio 10 Pro Lossless.

There are many different versions of the AAC format. Confirm that the software being used conforms to the acceptable formats listed above. It's possible that the format may be unplayable even though the extension is valid.

Playback of AAC files encoded by iTunes is supported.

WAVE (USB Flash drive)
Filename : .wav
Container: Waveform Audio File Format(base on RIFF) Audio Coding: LPCM,IMA-ADPCM

WMA (USB Flash drive)
Filename : .wma,.asf
Container: Advanced Systems Format(ASF) Audio Coding: WMA STD
* Support object: Content Description Object: only Title, Artist

AAC (USB Flash drive)
Filename : .aac
Container: Audio Data Transport Stream (ADTS) Audio Coding: AAC-LC/HE-AAC

AC3 (USB Flash drive)
Filename : .ac3,.ec3 Container: AC3 bit streams Audio Coding: AC3
Container: Enhanced AC3 Bit Stream Audio Coding: E-AC3

MPEG (USB Flash drive)
Filename : .mp1 Container: MPEG PS Audio Coding: MP1
Filename: .mp2,.mpa Container: MPEG PS Audio Coding: MP2
Filename : .mp3 Container: MPEG PS Audio Coding: MP3
* Support Tag:ID3V1 ID3v2.3 : only TPE1, TALB, TCONTIT2, TYER
Filename : .mp4,.m4a Container: MP4 File Format Audio Coding: AAC-LC,HE-AAC

OGG (USB Flash drive)
Filename. : .ogg Container: Ogg Audio Coding: Vorbis
FLAC (USB Flash drive)
Filename. : .flac Container: FLAC Audio Coding: FLAC

APE (USB Flash drive)
Filename. : .ape
Container: APE (Monkey's Audio Lossless Audio File) Audio Coding: Monkey's Audio
Audio Coding: MP1 / MP2 / MP3, AC3, LPCM

File Name:.dat
Video Coding: MPEG-1 Video
Audio Coding: MPEG-1 Audio Layer II

Format: MPEG4
Audio Coding: MP3, AAC-LC/HE-AAC, AC3, LPCM

CAUTION
Except for private use, duplicating audio data or distributing, transferring, or copying it,
whether for free or for a fee, without permission of the copyright holder is strictly prohibited by
the Copyright Act and by international treaty.

Terminology
Bit rate This is the "sound" compression rate specified for encoding. The higher the bit rate, the
higher the sound quality, but also the larger the files.
Sampling rate This value shows how many times per second the data is sampled (recorded). For
example, music CDs use a sampling rate of 44.1 kHz, so the sound is sampled (recorded) 44,100
times per second. The higher the sampling rate, the higher the sound quality, but also the larger the
volume of data.
Encoding Converting music CDs, WAVE (AIFF) files, and other sound files into the specified audio
compression format.
Tag Song information such as track titles, artist names, album names, etc., written into MP3/WMA/
AAC/FLAC/WAVE/Ogg/APE (USB flash drive) files.
Root folder The root folder (or root directory) is found at the top of the file system. The root folder
contains all folders and files. It is created automatically for all burned discs.

In Case of Difficulty

Basic

No function or display.
- Vehicle's ignition is off. - If connected according to the instructions, the unit will not operate
  with the vehicle's ignition off.
- Improper power lead connections. - Check power lead connections.
- Blown fuse.
  - Check the fuse on the battery lead of the unit; replace with the proper value if necessary.
- No sound or unnatural sound.
- Incorrect setting of volume/balance/fader controls. - Readjust the controls.
- Connections are not properly or securely made. - Check the connections and firmly connect.
- Temperature in the vehicle is too low. - Increase the vehicle's interior temperature to operation
  temperature range.
- Connections to the Auxiliary Device are not securely made. - Check the connections and firmly
  connect.
- Temperature in the vehicle is too high.- Allow the vehicle's interior temperature to cool.

Radio

Unable to receive stations.
- No antenna, or open connection in the antenna cable. - Make sure the antenna is properly connected; replace the antenna or cable if necessary.

Unable to tune stations in the seek mode.
- You are in a weak signal area. - Change the radio frequency manually.
- If the area you are in is a primary signal area, the antenna may not be grounded and connected properly.
  - Check your antenna connections; make sure the antenna is properly grounded at its mounting location.
- The antenna may not be the proper length. - Make sure the antenna is fully extended; if broken, replace the antenna with a new one.
- Broadcast is noisy. The antenna is not the proper length. - Extend the antenna fully; replace it if it is broken. The antenna is poorly grounded. Make sure the antenna is grounded properly at its mounting location.
- The station signal is weak and noisy.
  - If above solution does not work, tune in another station.

USB Audio

If you encounter a problem, please turn the power off, then on again. If the unit is still not functioning normally, please review the items in the following checklist. This guide will help you isolate the problem if the unit is at fault. Otherwise, make sure the rest of your system is properly connected, or then consult your authorized Alpine dealer.

This device is not supported
- Unsupported device.
- Change to play supported USB device.

Device No Response.
- No response from the device.

No Audio.
- There is no audio data in the current video file.

Audio format not supported
- Not supported audio format.
- Download supported audio format to USB flash drive.

Audio trick not supported
- Prompts fast forwarding / reversing or jumping on current audio is not supported.
- Change the current audio format.

No Artist (/ No Song / No album)
- There are no tag-info in the USB Audio / iPod Audio.
- Change to play audio-file with tag-info

Bluetooth

No Bluetooth device were found

• The Bluetooth audio device was not connected correctly.

- Check the settings for the unit and the Bluetooth audio device and reconnect

Specifications

GENERAL

Power Requirement	14.4 V DC (10.8 – 15.1 V allowable)
Operating temperature	4°F to +140°F (-20°C to + 60°C)
Power Output	17 W RMS × 4^{*2}

*2 Primary amplifier ratings per CEA-2006 Standard

• Power output: measured at 4 Ohms and ≤ 1% THD+N

• S/N: 80 dBA (reference: 1 W into 4 Ohms)

*1 Frequency response may differ depending on the encoder software/bit rate.

Bluetooth V5.2

< +4dBm Ave. (Power class 2)

A2DP (Advanced Audio Distribution Profile)

FM TUNER

Tuning Range	87.7 – 107.9 MHz (USA) 87.5 – 108 MHz (Europe)

AM TUNER

Tuning Range	530 – 1710 kHz (USA) 522 – 1620 kHz (Europe)

USB SECTION USB 2.0

1,500 mA USB Play From Fat 32 Device

CHASSIS SIZE

Width Height Depth 178 mm 100 mm 68 mm

• **Due to continuous product improvement, specifications and design are subject to change without notice.**

Installation and Connections

Before installing or connecting the unit, please read the following and pages 5 to 8 of this manual thoroughly for proper use.

WARNING

KEEP SMALL OBJECTS SUCH AS SCREWS OUT OF THE REACH OF CHILDREN.
Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

MAKE THE CORRECT CONNECTIONS.
Failure to make the proper connections may result in fire or product damage.

USE ONLY IN CARS WITH A 12 VOLT NEGATIVE GROUND.
(Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.
Failure to do so may result in electric shock or injury due to electrical shorts.

DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.
Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.

DO NOT SPLICE INTO ELECTRICAL CABLES.
Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.

DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.
When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS.
Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.

DO NOT INSTALL IN LOCATIONS WHICH MIGHT HINDER VEHICLE OPERATION, SUCH AS THE STEERING WHEEL OR GEARSHIFT.
Doing so may obstruct forward vision or hamper movement etc. and results in serious accident.

CAUTION

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.
The wiring and installation of this unit requires special technical skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY.
Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit in place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE.
Route the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST.
Avoid installing the unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

Precautions

- Be sure to disconnect the cable from the (–) battery post before installing your unit. This will reduce any chance of damage to the unit in case of a short-circuit.
- Be sure to connect the color-coded leads according to the diagram. Incorrect connections may cause the unit to malfunction or damage to the vehicle's electrical system.
- When making connections to the vehicle's electrical system, be aware of the factory installed components (e.g. on-board computer). Do not tap into these leads to provide power for this unit. When connecting the unit to the fuse box, make sure the fuse for the intended circuit of the unit has the appropriate amperage. When in doubt, consult your Alpine dealer.
- The unit uses female RCA-type jacks for connection to other units (e.g. amplifier) having RCA connectors. You may need an adaptor to connect other units. If so, please contact your authorized Alpine dealer for assistance.
- Be sure to connect the speaker (–) leads to the speaker (–) terminal. Never connect left and right channel speaker cables to each other or to the vehicle body.

Accessory List

Main unit...1
Power/Signal cable....................................1
Transfer wire harness...............................1
Trim...2
Rear mount bracket..................................1
Rear mount bracket Hardware 1

WARRANTY

IMPORTANT

Please record the serial number of your unit in the space provided below and keep it as a permanent record. The serial number plate is located on the bottom of the unit.

SERIAL NUMBER: INSTALLATION DATE: INSTALLATION TECHNICIAN: PLACE OF PURCHASE:

To prevent external noise from entering the audio system.
- Locate the unit and route the leads at least 10 cm away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint, dirt or grease if necessary) of the car chassis.
- If you add an optional noise suppressor, connect it as far away from the unit as possible. Your Alpine dealer carries various noise suppressors, contact them for further information.
- Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

LIMITED WARRANTY

Alps Alpine North America, Inc. ("Alpine"), is dedicated to quality craftsmanship and is 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 Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in Canada. Products purchased in the U.S.A. are covered only in the U.S.A.
LENGTH OF WARRANTY: This Warranty is in effect for one year from the date of the first consumer purchase.

WHO IS COVERED:
This Warranty only covers the original purchaser of the product, who must reside in the United States, Puerto Rico, Mexico, Brazil, Argentina or Canada.

WHAT IS COVERED:
This Warranty covers defects in materials or workmanship (parts and labor) in the product.

WHAT IS NOT COVERED:
This Warranty does not cover the following:
Damage occurring during shipment of the product to Alpine for repair (claims must be presented to the carrier).
Damage caused by 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.
Damage caused by negligence, misuse, improper operation, or failure to follow instructions contained in the Owner's manual.
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.
Service performed by an unauthorized person, company, or association.
Any product which has the serial number defaced, altered or removed.
Any product which has been adjusted, altered, or modified without Alpine's consent.
Any product not distributed by Alpine within the United States, Puerto Rico or Canada.
Any product not purchased from an Authorized Alpine Dealer.

HOW TO OBTAIN WARRANTY SERVICE:
A 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 the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.
B You should provide a detailed description of the problem(s) for which service is required.
C You must supply proof of your purchase of the product.
D 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.

HOW WE LIMIT IMPLIED WARRANTIES:
ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

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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 CANADA ONLY: This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

HOW TO CONTACT CUSTOMER SERVICE: Should the product require service, please call the following number for your nearest Authorized Alpine Service Center.

CAR AUDIO (248) 391-5051
Or visit our website at; http://www.alpine-usa.com

Alps Alpine North America, Inc. 1500 Atlantic Blvd, Auburn Hills, Michigan 48326, U.S.A. Do not send products to this address. Call the toll free telephone number or visit the website to locate a service center.

About the Rules of Bluetooth Electromagnetic Radiation Regulation USA/Canada

FCC/IC CAUTION

This device complies with Part 15 of the FCC Rules and Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- This device may not cause interference; and
- This device must accept any interference, including interference that may cause undesired operation of the device.
  Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
  This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that
  it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20 cm or more away from person's body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- l'appareil ne doit pas produire de brouillage;
- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
  Cet équipement est conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC. Cet équipement émet une énergie RF très faible qui est considérée conforme sans évaluation de l'exposition maximale autorisée (MPE). Cependant, il est souhaitable qu'il devrait être installé et utilisé en gardant une distance de 20 cm ou plus entre le radiateur et le corps humain.

"La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada." resolution 680: "Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados."

Don't forget to take a moment to protect your purchase by registering your product now at the following address: www.alpine-usa.com/ registration.

N'oubliez pas de consacrer un moment à la protection de votre achat en enregistrant votre produit dès maintenant à l'adresse suivante : www.alpine-usa.com/registration.

Recuerde que con solo unos pocos pasos podrá proteger su producto, registrándolo a través de la siguiente dirección: www.alpine-usa.com/ registration.

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* http://www.alpine.com/e/oss/download

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Name: Alps Alpine North America, Inc.

Address: 1500 Atlantic Blvd Auburn Hills, Michigan 48326 United States
Contact Person: Prudencio Cabigao
Tel.: (248) 391-5051

1270750058910

Installation Manual

SPV-65RGB-CAN RGB Outdoor Speaker Cans Direct Fit for UTV

SPV-65RGB-CAN
Weather-Resistant
Powersports Tower Speaker
Installation Manual
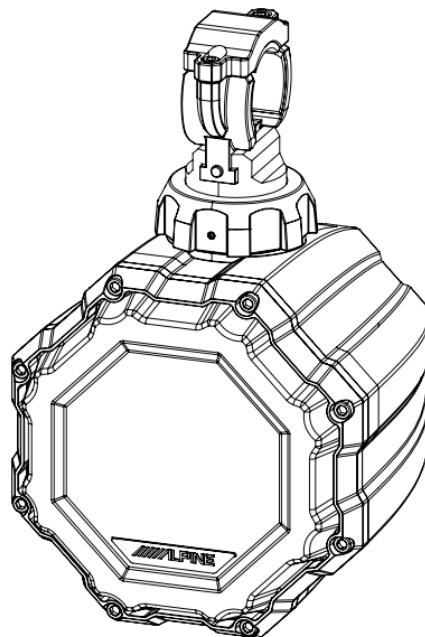
Introduction

- Congratulations on purchasing the SPV-65RGB-CAN. This installation manual is designed to give you an overview of how to install the SPV-65RGB-CAN. Please familiarize yourself with the owners manual before attempting the installation. If you still have additional questions please call 1-800-TECH-101.

Note

- Design and specifications are subject to change without notice for improvement.
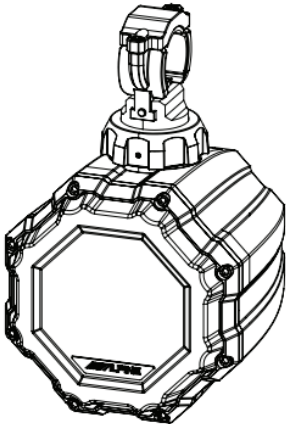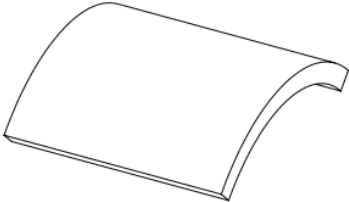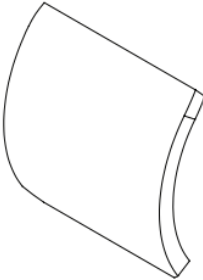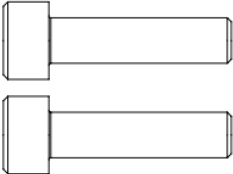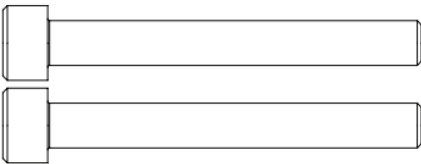
To Ensure Safe Use, Always Follow These Precautions

- 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.

Accessory List

SPV-65RGB-CAN Pod With Speaker x 2	Speaker Terminal	RGB Terminal
Top Gasket x 2	**Side Gasket x 2**	
M5X20 Screw x 2	**M6X50 Screw x 2**	
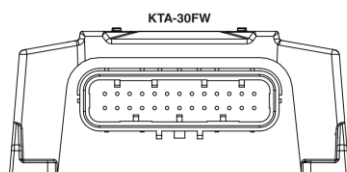
PSS-PRZR
Installation Manual

KTA-30FW

NOTE: This amplifier is not included with the product. This is an example of how the speakers can be powered with this specific model amplifier.

26
14
13
1

Switched +12V (Red)
Ground (Black)

RGB+ (Black)
Red- (Red)
Green- (Green)
Blue- (Blue)

RGB

MODE
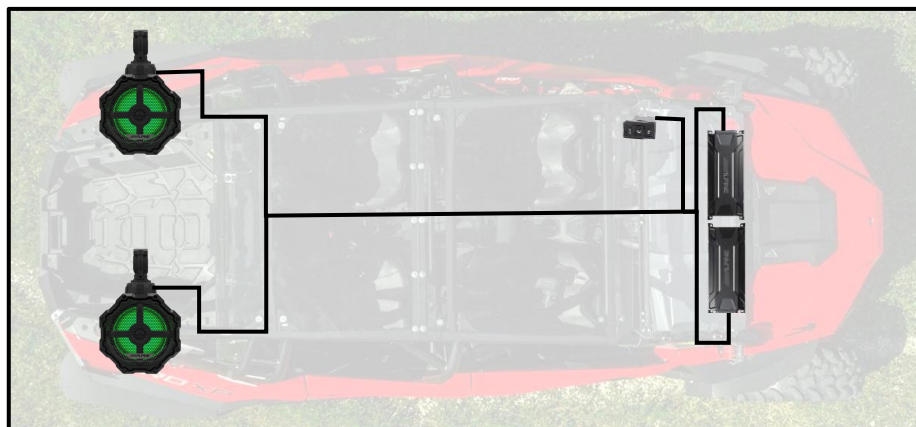
Rear Right Speaker Output Purple (+) ———— To Right White (+)
Front Right Speaker Output Grey/Black (-) ———— To Right Black (-)
Rear Left Speaker Output Green/Black (-) ———— To Left Black (-)
Front Left Speaker Output White (+) ———— To Left White (+)

To Right Pod Speaker Terminal

To Left Pod Speaker Terminal

Unscrew M5 x 20mm socket head cap screws and remote top cap from clamp.

Loosen M5 x 50mm socket head cap screw allowing clamp to go around 2" bar. Add second rubber spacer to the top cap for 1.5"-1.75" bars.
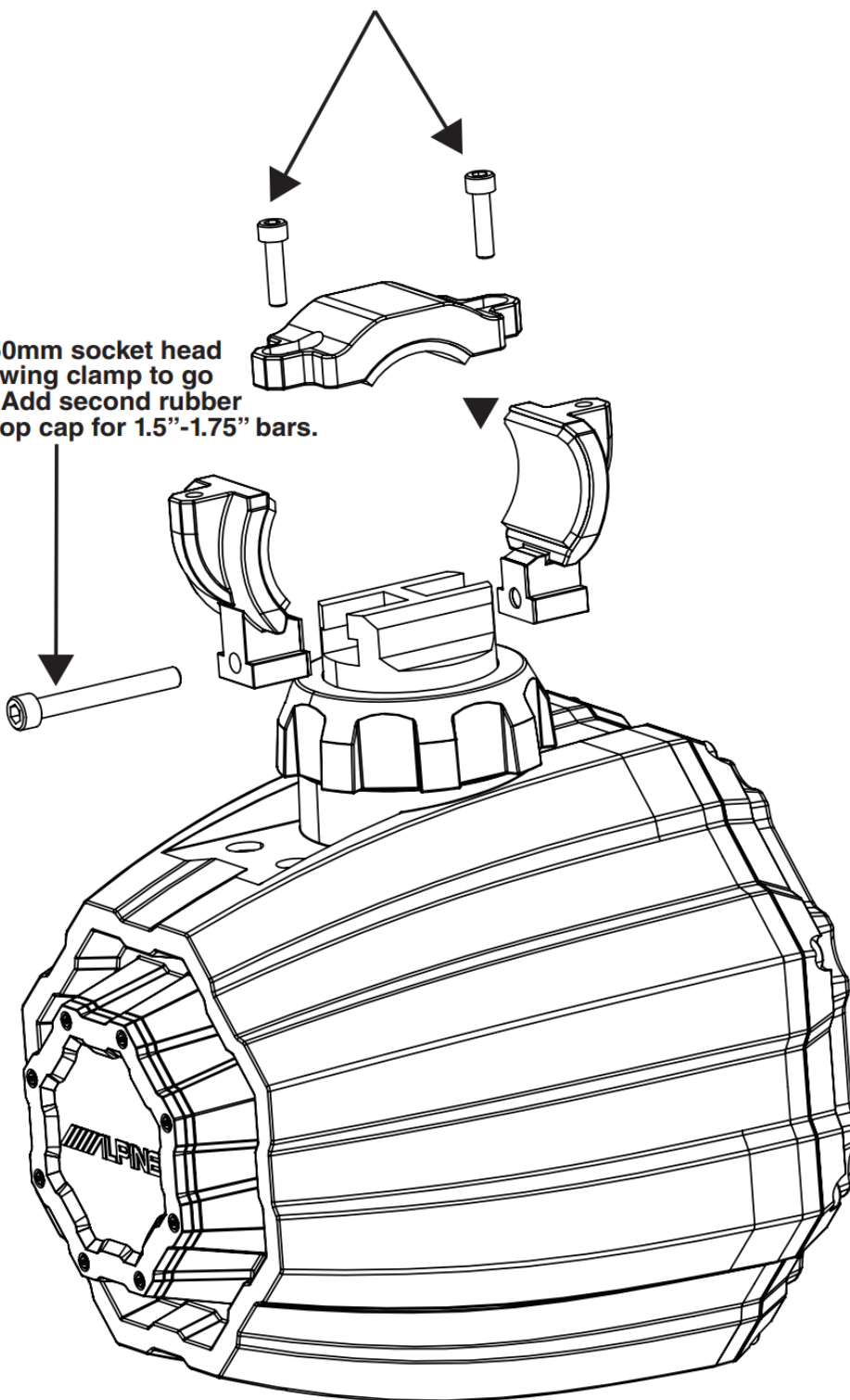
Twist large adjustment nut left to angle and/or remove pod. Ensure to tighten M2 set screw after tightening large adjustment nut.
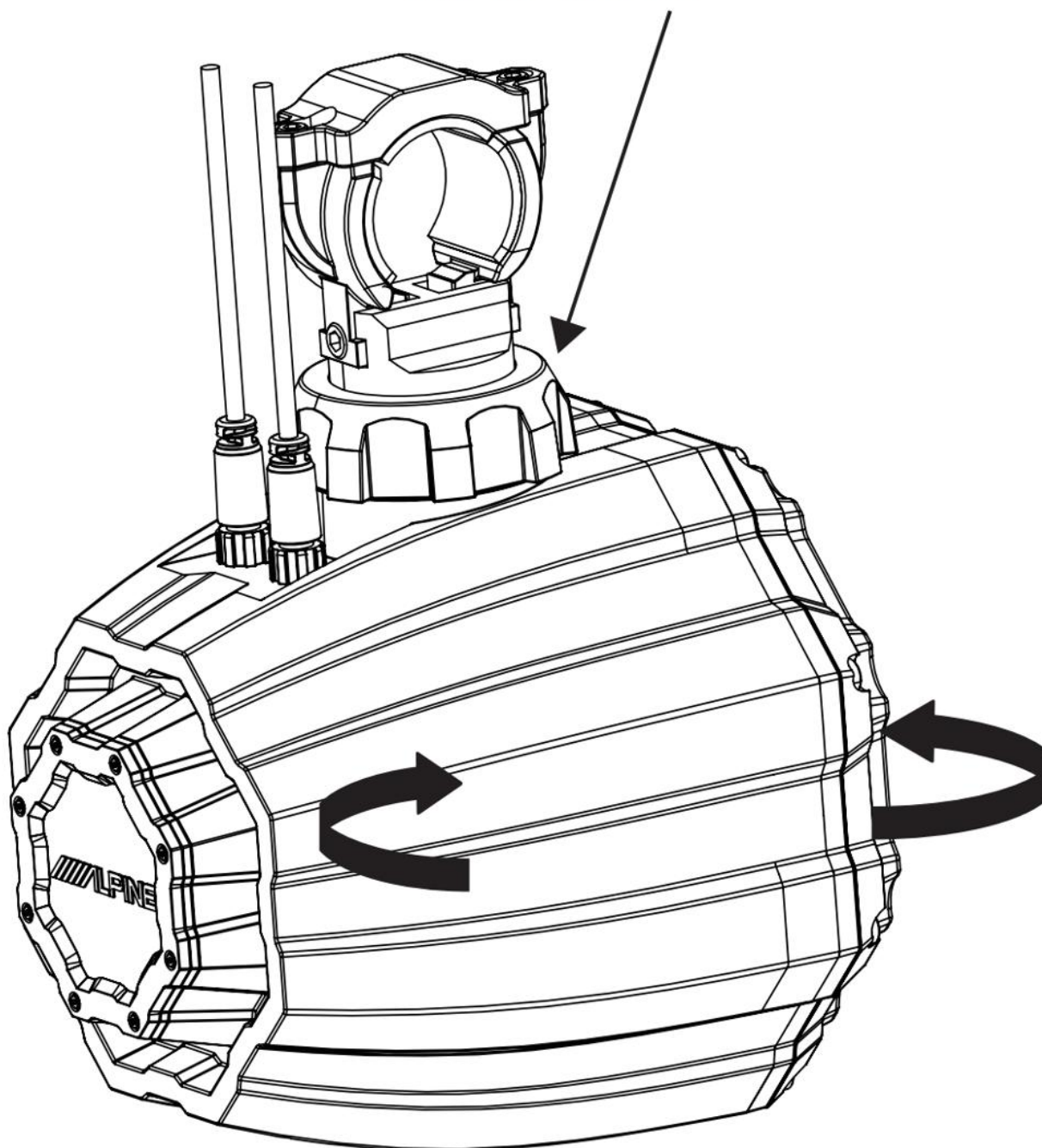
Specifications

Continuous Power Handling (RMS)	90W
Woofer Size	6-1/2"
Nominal Impedance	4 Ohms
Frequency Response	50-22kHz
Voice Coil Resistance (Re)	3.6 Ohms
Free Air Resonance (Fs)	49 Hz
Efficiency	87.8 dB @ 1W / 1m
Electrical "Q" (Qes)	.61
Mechanical "Q" (Qms)	11.19
Total Speaker "Q" (Qts)	.57
Equivalent Compliance (Vas)	20.17 Liters
Moving Mass (Mms)	14.22
Mechanical Compliance (Cms)	735.84 mm/N
Magnetic Strength (BL)	5.13 T-m
Effective Piston Area (Sd)	21.5 sq in
One Way Linear Excursion (Xmax)	4.9mm
IP Rating	IP55

Dimensions

189.01mm
7.44"

300.79mm
11.84"

210.50mm
8.28"

Troubleshooting Guide

	Symptom	Possible Cause	Remedy
1	System will not turn on.	Missing or blown fuse at the battery.	Insert or replace fuse.
		Amp's Remote Turn-On wire may be disconnected.	Use a digital multimeter on the Blue/White remote wire to ensure it gets +12V positive when the audio system is on. If not trace the wire and correct the connection.
		Amp +12V constant wire not getting voltage.	Test the Yellow +12V constant wire with a digital multimeter to ensure it is getting +12V at all times. Trace the wire to the fused battery source.
2	Output is low.	Amplifier gain is not adjusted properly.	Adjust the gain to where it should be according to your specific system setup.
		Signal input to the amp is not good.	Use a known good RCA input into the amplifier to see if that works.
3	One of the speakers is not working.	Disconnected pin or loose connection.	Check all connections to the speaker, loose pins, disconnected terminals etc.. Swap around the speakers for the working one to see if that works.
		Amp channel not installed properly.	Swap the left and right RCA's to see if the other side works. If so the installation of the other amp channel needs to be gone over.
4	RGB will not light up.	Incorrect wiring or a connector is loose.	Ensure ground wire is connected to RGB wiring and power wire is going to back wire. Check connectors to ensure properly secure using twist screw.

Installation Manual

SPV-65RGB-CAN RGB Outdoor Speaker Cans Direct Fit for UTV

KTA-30MW/FW Startup Guide

Fig. 1

KTA-30FW Right side panel/Panneau de droite/Panel derecho
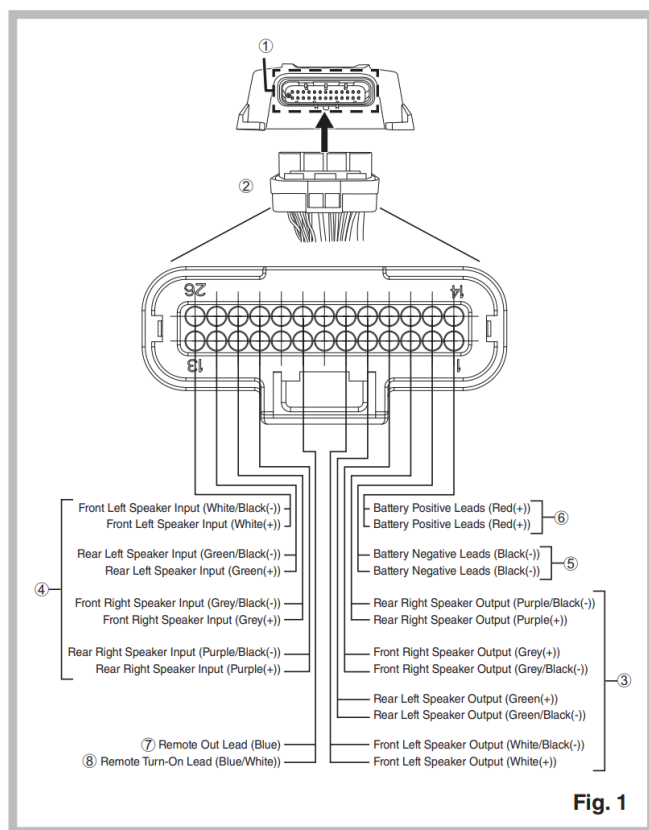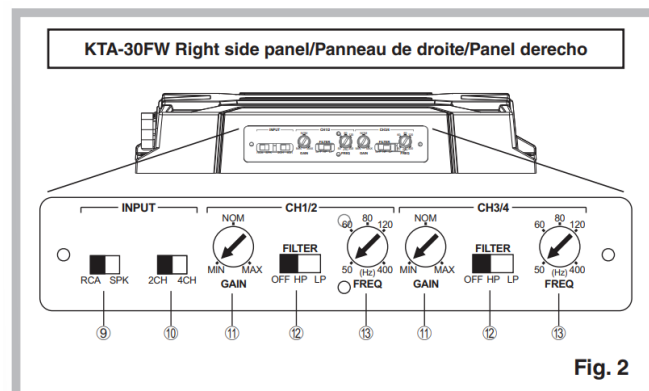
Fig. 2

CONNECTIONS (Fig. 1)

Before making connections, be sure to turn the power off to all audio components. Connect the red battery lead from the amp directly to the positive (+) terminal of the vehicle's battery. Do not connect this lead to the fuse block.

⚠ **CAUTION**

◆ **Caution on connection terminals/parts**
• Keep electrically conductive objects away from the unit's terminals/parts (power terminals, fuses, speaker output terminals, RCA connectors, etc.). Doing so prevents a possible short circuit and damage to the unit.

To prevent external noise from entering the audio system.
• Locate the unit and route the leads at least 10 cm (3-15/16") away from the car harness.
• Keep the battery power leads as far away from other leads as possible.
• Connect the ground lead securely to a bare metal spot (remove any paint or grease if necessary) of the car chassis.
• Your Alpine dealer knows best about noise prevention measures so consult your dealer for further information.

① **Input/Output/Power Connector**

② **Input/Output/Power Wire Harness**

③ **Speaker Output Leads**
Be sure to observe correct speaker output connections in the system. Connect the positive output (+) to the positive speaker terminal and the negative output (-) to the negative speaker terminal.

Note:
• *Do not connect speaker leads together or to chassis ground.*

④ **Input Signal Leads**
There are two options:
a) RCA Input Jacks (FRONT=Grey sleeve, REAR=Violet sleeve)
Connect these jacks to the line out leads on your head unit using RCA extension cables (sold separately)
b) Speaker Level Inputs
Cut off the RCA jacks, then connect the correct corresponding speaker outputs from the head unit directly to these twisted pair wires.

Note:
• *For the "Speaker Level Input System" setting, connecting the Remote Turn-On Lead is not required due to the "REMOTE SENSING" function of this product. However, the "REMOTE SENSING" function may not work depending on the signal source connected. In such a case, connect the Remote Turn-On Lead to an incoming power supply wire (accessory power) in the ACC position.*

⑤ **Ground Lead (Black)**
Connect this lead securely to a clean, bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between that point and the negative (-) terminal of the vehicle's battery. Ground all your audio components to the same point on the chassis to prevent ground loops.

⑥ **Battery Lead (Red)**
Connect battery lead directly to BATT +
Be sure to add a 30A fuse (sold separately) as close as possible to the battery's (+) terminal.

⑦ **Remote Out Lead (Blue)**
Use this lead to turn on additional amplifiers.

Note:
• *This is a pass through Remote Turn-On signal from the head unit.*

⑧ **Remote Turn-On Lead (Blue/White)**
Connect this lead to the remote turn-on or power antenna (positive trigger, (+) 12V only) lead of your head unit.

SWITCH SETTINGS (Fig. 2)

⑨ **Input Signal Type Switch**
a) Slide switch to the left position for RCA Input signals (DEFAULT setting)
b) Slide switch to the right position for speaker level input signals

⑩ **Input Configuration Switch**
a) Slide switch to the right position for 4 channel input (DEFAULT setting)
b) Slide switch to the left position for 2 channel input

Note:
• *Input Configuration Switch should be in the left position for 2CH bridged output system.*

⑪ **Input Gain Adjustment Control**
Set the KTA-30FW input gain to the minimum position. Using a dynamic CD as a source, increase the head unit volume until the output distorts. Then, reduce the volume 1 step (or until the output is no longer distorted).
Now, increase the amplifier gain until the sound from the speakers become distorted. Reduce the gain slightly so the sound is no longer distorted to achieve the optimum gain setting.

⑫ **Filter Selector Switches**
a) Slide switch to the OFF position to turn off filter.
b) Slide switch to the HP position to select high pass filter.
c) Slide switch to the LP position to select low pass filter.

⑬ **Filter Frequency Adjustment Control**
Adjust the filter cutoff frequency within the range of 50-400Hz.

Note:
• *CH1/2 controls the front speakers and CH3/4 controls the rear speakers.*
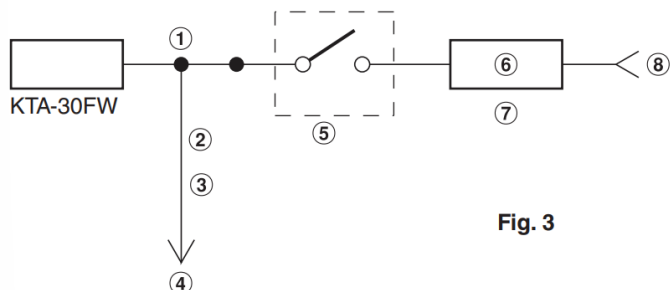
Fig. 3

ALTERNATIVE AMPLIFIER TURN-ON OPTIONS (Fig. 3)

If your head unit does not have a traditional amplifier turn-on lead, refer to the options below for connection.
Please check your head unit for the conditions listed below: (Fig. 3)

a. The head unit does not have a remote turn-on or power antenna lead.
b. The head unit's power antenna lead is activiated only when the radio is on (turns off in Bluetooth or CD mode).
c. The head unit's power antenna lead is logic level output (+) 5V, negative trigger (grounding type), or cannot sustain (+) 12V when connected to other equipment in addition to the vehicle's power antenna. If any of the above conditions exist, the remote turn-on lead of your KTA-30FW must be connected to a switched power source (ignition) in the vehicle. Be sure to use a 3A fuse as close as possible to this ignition tap. Using this connection method, the KTA-30FW will turn on and stay on as long as the ignition switch is on.

If this is objectionable, a SPST (Single Pole, Single Throw) switch, in addition to the 3A fuse mentioned above, may be installed in-line on the KTA-30FW turn-on lead. This switch will then be used to turn on (and off) the KTA-30FW. Therefore, the switch should be mounted so that is accessible by the driver. Make sure the switch is turned off when the vehicle is not running. Otherwise, the amplifier will remain on and drain the battery.

① Blue/White
② Power Antenna
③ Remote Turn-On Lead
④ To other Alpine components' Remote Turn-On Leads
⑤ SPST Switch (optional)
⑥ Fuse (3A)
⑦ As close as possible to the vehicle's ignition tap
⑧ Ignition Source

[English]
㉑ Front Left Speaker (sold separately)
㉒ Front Right Speaker (sold separately)
㉓ Rear Left Speaker (sold separately)
㉔ Rear Right Speaker (sold separately)
㉕ RCA Extension Cable (sold separately)
㉖ Head Unit Speaker Connector
㉗ CD Head Unit
㉘ RCA to Mini Jack Cable (sold separately)
㉙ MP3 Player

[Français]
㉑ Haut-parleur avant gauche (vendu séparément)
㉒ Haut-parleur avant droit (vendu séparément)
㉓ Haut-parleur arrière gauche (vendu séparément)
㉔ Haut-parleur arrière droit (vendu séparément)
㉕ Câble d'extension RCA (vendu séparément)
㉖ Connecteur du haut-parleur de l'unité principale
㉗ Unité principale CD
㉘ Câble pour connecter RCA aux mini-prises (vendu séparément)
㉙ Lecteur MP3

[Español]
㉑ Altavoz delantero izquierdo (vendido separadamente)
㉒ Altavoz delantero derecho (vendido separadamente)
㉓ Altavoz trasero izquierdo (vendido separadamente)
㉔ Altavoz trasero derecho (vendido separadamente)
㉕ Cable de extensión RCA (se vende por separado)
㉖ Conector de bocinas de amplificador principal
㉗ Amplificador principal de CD
㉘ Cable RCA a miniconector (se vende por separado)
㉙ Reproductor MP3

RCA Input System/Système d'entrée RCA/Sistema de entrada RCA

Rear left/Gauche arrière/Posterior izquierdo
Rear right/Droite arrière/Posterior derecha
Front left/Gauche avant/Frontal izquierdo
Front right/Droite avant/Frontal derecha

Rear output terminal/
Terminal de sortie arrière/
Terminal de salida trasero

Front output terminal/
Terminal de sortie avant/
Terminal de salida delantero

Left end panel/
Panneau de gauche/
Panel de la izquierda

(L)   (R)   (L)   (R)

CD Head unit / Unité principale CD / Unidad principal de CD

㉗

Fig. 4

Rear right (+)/Droite arrière (+)/Posterior derecha (+) (Purple)
Front right (-)/Droite avant (-)/Frontal derecha (-) (Grey/Black)

Front left/Gauche avant/Frontal izquierdo
Front right/Droite avant/Frontal derecha

Front left (+)/
Gauche avant (+)/
Frontal izquierdo (+)
(white)

Rear left (-)/
Gauche arrière (-)/
Posterior izquierdo (-) (Green/Black)

Left end panel/
Panneau de gauche/
Panel de la izquierda

㉕

Front output terminal/
Terminal de sortie avant/
Terminal de salida delantero

(L)   (R)   (L)   (R)

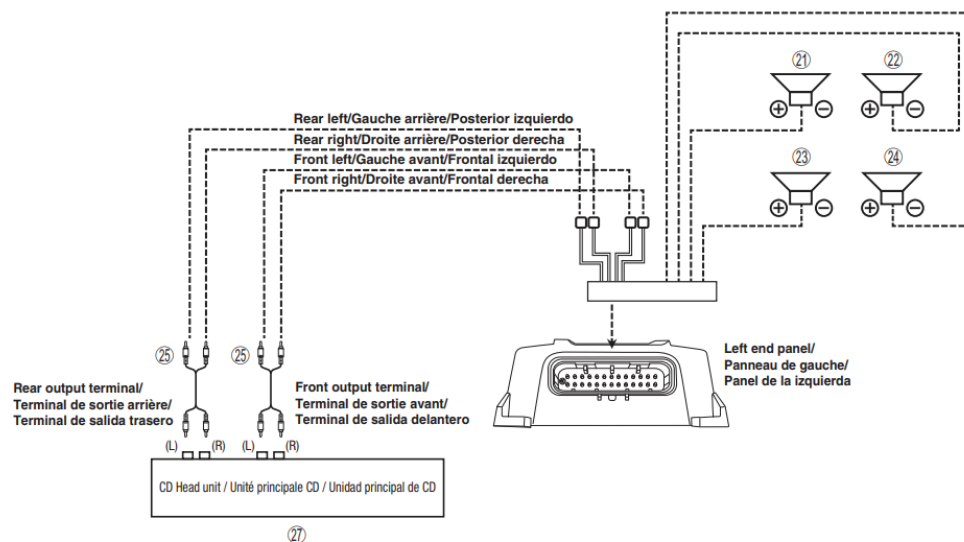CD Head unit / Unité principale CD / Unidad principal de CD
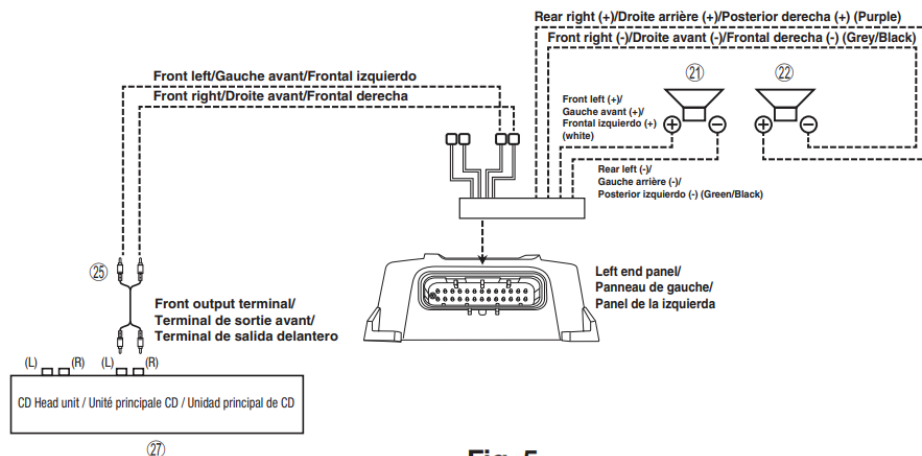
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Fig. 5

Note:
- *Please change Input Configuration Switch from default 4ch to 2ch.*

Remarque :
- *Le sélecteur doit être orienté vers la gauche pour une entrée à deux canaux.*

Nota:
- *El interruptor de configuración de entrada debe estar colocado hacia la izquierda para una entrada de 2 canales.*

//////ALPINE®

LIMITED WARRANTY

ALPINE ELECTRONICS OF AMERICA, INC. ("Alpine"), is dedicated to quality craftsmanship and is 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 Warranty covers Car Audio Products and Related Accessories ("the product"). Products purchased in the Canada are covered only in the Canada. Products purchased in the U.S.A. are covered only in the U.S.A.

●**LENGTH OF WARRANTY:**
This Warranty is in effect for one year from the date of the first consumer purchase.

●**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) in the product.

●**WHAT IS NOT COVERED:**
This 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 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 without 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 the warranty, and if the product was shipped to an Authorized Alpine Service Center or Alpine, Alpine will pay the return shipping charges.
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.

●**HOW WE LIMIT IMPLIED WARRANTIES:**
ANY IMPLIED WARRANTIES INCLUDING FITNESS FOR USE AND MERCHANTABILITY ARE LIMITED IN DURATION TO THE PERIOD OF THE EXPRESS WARRANTY SET FORTH ABOVE AND NO PERSON IS AUTHORIZED TO ASSUME FOR ALPINE ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT.

●**HOW WE EXCLUDE CERTAIN DAMAGES:**
ALPINE EXPRESSLY DISCLAIMS LIABILITY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES CAUSED BY THE PRODUCT. THE TERM "INCIDENTAL DAMAGES" REFERS TO 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 OTHERS COSTS RELATING TO THE CARE AND CUSTODY OF THE PRODUCT. THE TERM "CONSEQUENTIAL DAMAGES" REFERS TO THE COST OF REPAIRING OR REPLACING OTHER PROPERTY WHICH IS DAMAGED WHEN THIS PRODUCT DOES NOT WORK PROPERLY. THE REMEDIES PROVIDED UNDER THIS WARRANTY ARE EXCLUSIVE AND IN LIEU OF ALL OTHERS.

●**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 CANADA ONLY:**
This Warranty is not valid unless your Alpine car audio product has been installed in your vehicle by an Authorized Installation Center, and this warranty stamped upon installation by the installation center.

●**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. 860307 |
| TECH SUPPORT | 1-800-TECH-101 (1-800-832-4101) |

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

ALPINE ELECTRONICS OF AMERICA, INC., 19145 Gramercy Place, Torrance, California 90501, U.S.A.
Do not send products to this address.
Call the toll free telephone number or visit the website to locate a service center.

Troubleshooting Guide

	Symptom	Possible Cause	Remedy
1	System will not turn on	Missing or blown fuse at the battery	Insert or replace fuse
		Radio's Remote Turn-On wire may be disconnected.	Verify that Remote Turn-On wire is connected.
2	Volume is too loud with aftermarket headunit.	Speaker level out is connected at the T-Harness.	Ensure that the low level RCA adapters are used in aftermarket headunit system (refer to the corresponding wiring diagram).
		Amplifiers gain control has not been properly adjusted.	Refer to the corresponding system diagram.
3	Subwoofer sounds very low.	Gain level may be down to the lowest setting.	Adjust level to reccomended setting (refer to the corresponding wiring diagram).
		Audio Phase may be reversed.	Ensure that the PHASE is set to 0°.
		RCA adaptor not installed	Plug, Orange, RCA adaptor into the connector near the PWE-S8 then plug RCA's into PWE-S8.
4	One of the speakers has no sound.	Disconnected pin or loose connection.	Check all connections to the speaker, loose pins, disconnected terminals etc..
5	Airbag light is on	Failed to disconnect the battery while working on the vehicle.	Disconnect the battery and re-connect after 5 minutes. If problem is not solved, the vehicle will have to be taken to a Jeep dealer.
6	System turns on only on radio source	Aftermarket Power Antenna wire is connected to amp	Connect the Remote Turn-On wire (Blue/White) to the Blue wire on the amplifier harness.

3	One of the speakers is not working.	Disconnected pin or loose connection.	Check all connections to the speaker, loose pins, disconnected terminals etc.. Swap around the speakers for the working one to see if that works.
		Amp channel not installed properly.	Swap the left and right RCA's to see if the other side works. If so the installation of the other amp channel needs to be gone over.
4	RGB will not light up.	Incorrect wiring or a connector is loose.	Ensure ground wire is connected to RGB wiring and power wire is going to back wire. Check connectors to ensure properly secure using twist screw.

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