

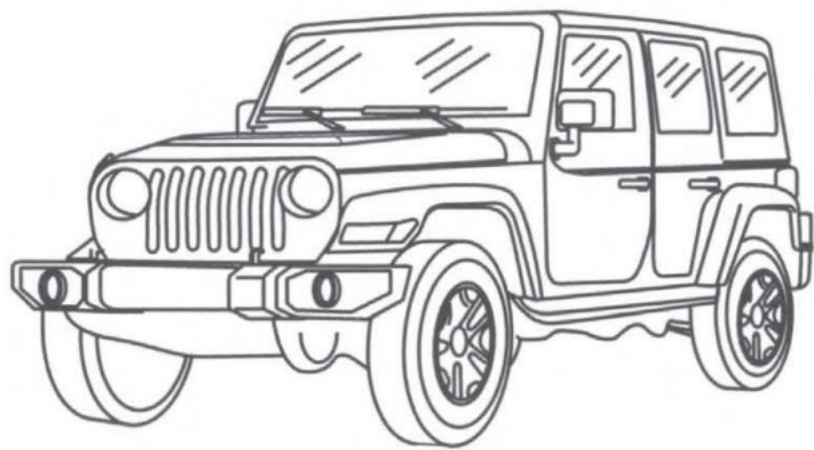


# Alpine PSS-23WRA2 Restyle Speaker System Instruction Manual

[Home](#) » [Alpine](#) » Alpine PSS-23WRA2 Restyle Speaker System Instruction Manual 



Jeep Wrangler  
PSS-23WRA  
20201218v1  
Sound System  
Installation Manual  
• Model: 4-Door Wrangler Unlimited JL  
• Model Year: 2018 -UP



|      |                    |          |
|------|--------------------|----------|
| Jeep | Model              | Year     |
|      | Wrangler Unlimited | 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 above.



**Warning:** Before you begin, 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.

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Introduction



- Congratulations on purchasing the PSS-23WRA. This installation manual is designed to take you through the step-by-step installation of the PSS-23WRA into a 2018 -Up Jeep Wrangler Unlimited. Please familiarize yourself with the owner’s 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












Explanations of Injury and Damage That May Result from Incorrect Use

|   |   |
|---|---|
| <div><div></div><div>Warning</div></div> | Ignoring the content marked by this indication and using the product incorrectly may lead to death or serious injury.   |
| <div><div></div><div>Caution</div></div> | Ignoring the content marked by this indication and using the product incorrectly may lead to injury or property damage. |

Types of Precautions







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

 **Warning**


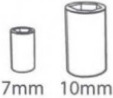
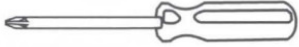
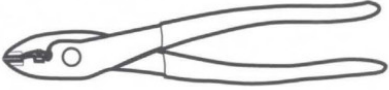
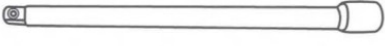
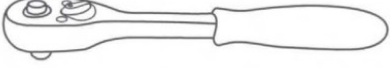
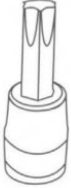


|  |   |
|--|---|
| Do not disassemble or modify the product. Doing so could lead to an accident, fire, or electric shock.   | <br>Forbidden               |
| Store screws and other small objects where small children cannot reach them. If one of these small objects is swallowed, consult with a doctor immediately.  |                            |
| When replacing fuses, be sure to use fuses with the specified current rating. Failing to do so could lead to an accident or fire.  | <br>Forbidden<br>Mandatory |
| Only connect the product to a 12 VDC negative ground car. Failing to do so could lead to an accident or fire.  | <br>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.   | <br>Forbidden              |
| Do not install the product in a location where it will obstruct the driver's forward view; interfere with the operation of the Steering wheel, gearshift, or the like; or pose a threat to passengers. Doing so could lead to an accident or injury. | <br>Forbidden             |
| When making a hole in the vehicle body, be careful to avoid damaging pipes, the fuel tank, electrical wiring, and the like. This kind of damage could lead to an accident or fire.   |                          |
| When installing and grounding the product, do not use any of the bolts or nuts of the steering wheel, brakes, fuel tank, or the like. Doing so could make the brakes stop working or lead to fire.   | <br>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.  | <br>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.  |                          |



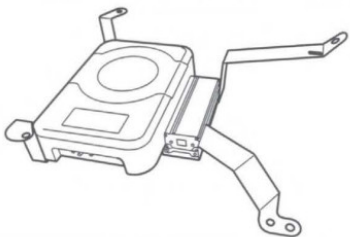
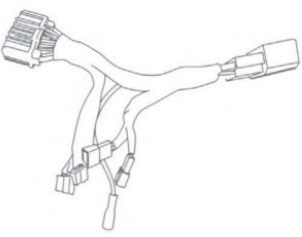


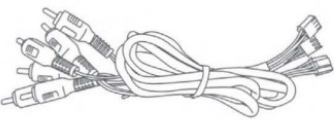
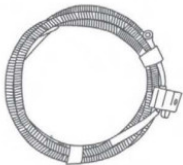
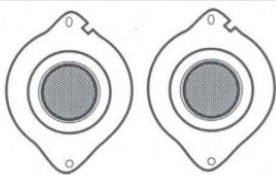
**Caution**

|  |  |
|--|--|
| Connect the product properly according to the instructions. Failing to do so could lead to fire or an accident.  | <br>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.                     | <br>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. | <br>Forbidden |
| The installation and wiring of this product requires specialized skills and experience. Have the product installed by an Alpine authorized dealer.               |               |

## Tools Required

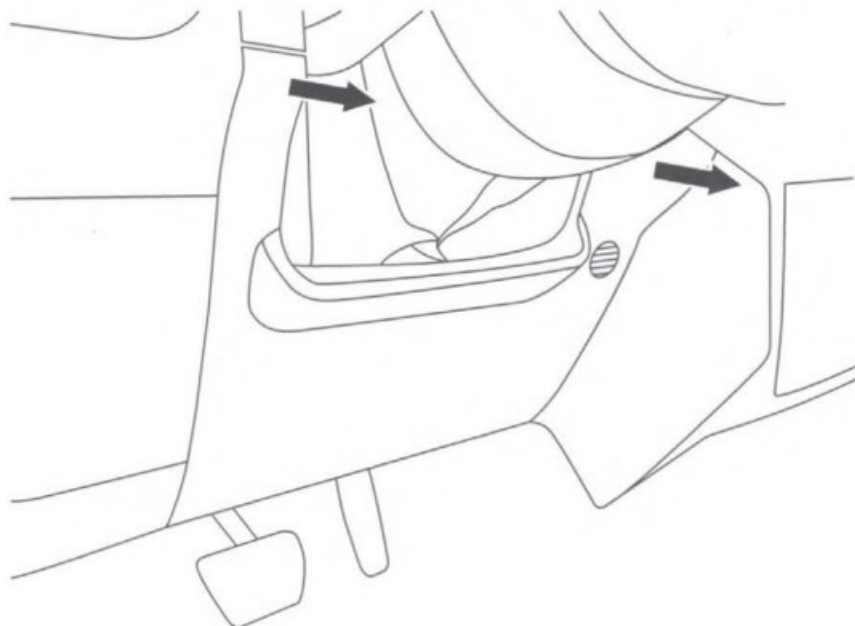
| Panel Removal Tool  | Sockets   | Phillips Screwdriver  |
|---|---|---|
|   |   |   |
| Wire Cutters  | Extension   | Ratchet   |
|  |  |  |
| T50 Torx  | Cordless Power Drill  | Cordless Impact Gun   |
|  |  |  |

## Accessory List

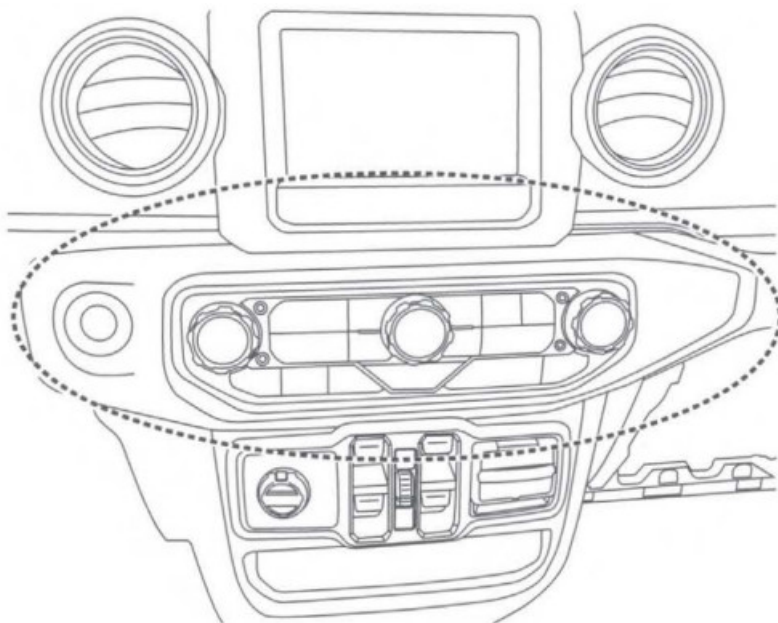
| Amplifier Assembly  | T-Harness   | Main Harness  |
|---|---|---|
|  |  |  |
| (10) Cable Ties   | RCA Adapters  | Power Cable   |
|  |  |  |
| Front Top Dash Speakers   |   |   |
|  |   |   |

## Factory Equipment Removal Process

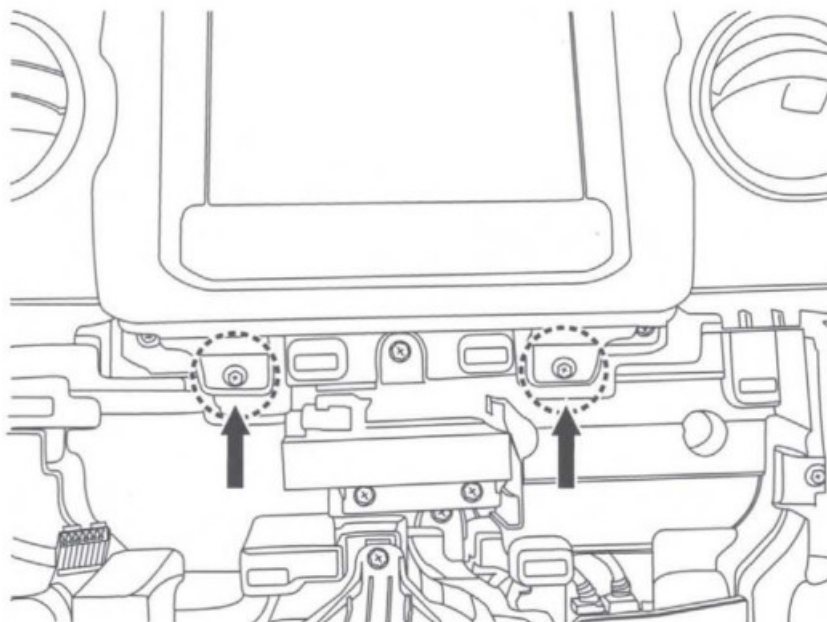
1. Use a panel removal tool to release (2) clips on the top of the plastic knee cover and remove it.



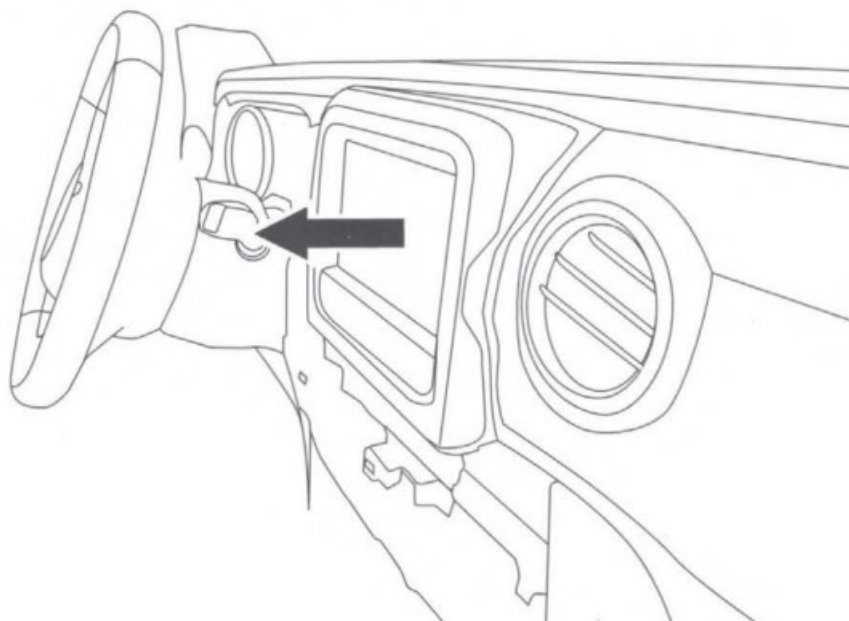
2. Use a panel removal tool to release (10) clips on the HVAC control panel, disconnect and remove it.



3. Extract (2) 7mm/Phillips screws on the bottom of the radio bezel.

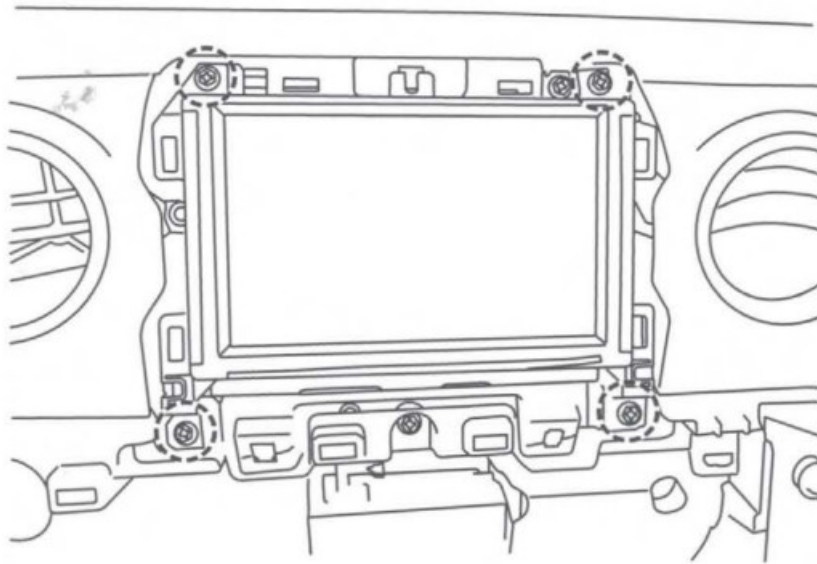


4. Use a panel removal tool to release (6) clips on the radio bezel and remove it.

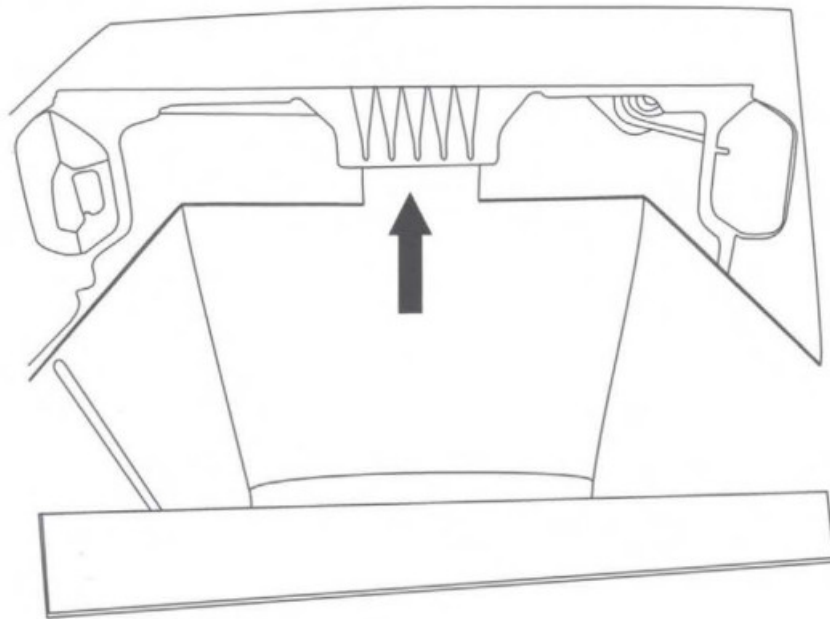


5. Extract (4) 7mm/Phillips screws from the factory radio, disconnect and remove it.

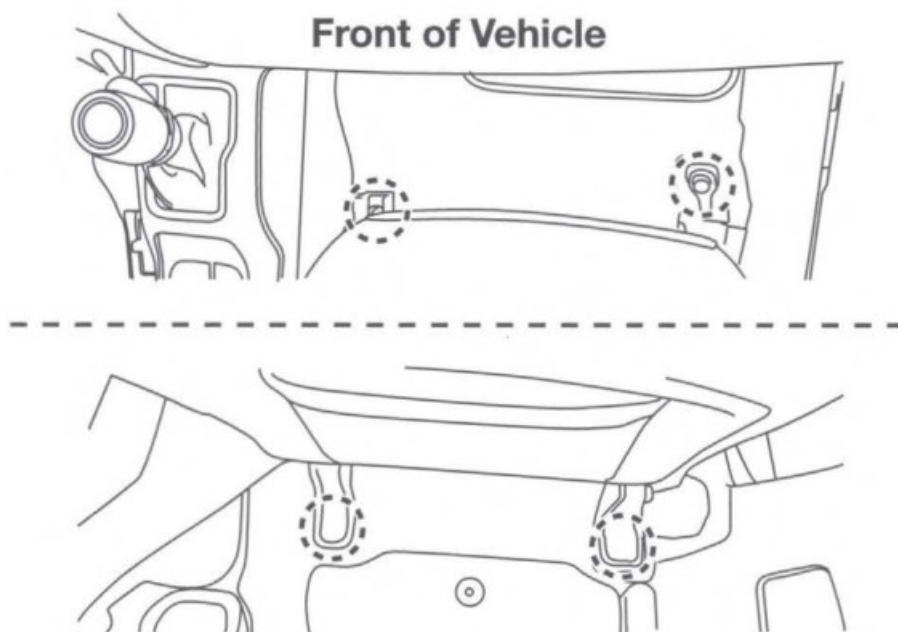




6. Lift the middle tab on the passenger side glovebox to release and remove it.

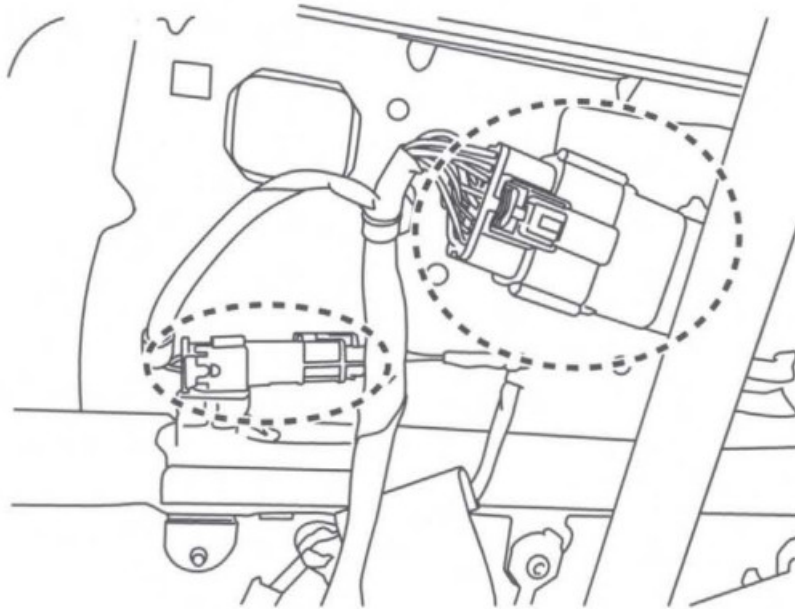


7. Extract (4) TSO Torx Screws from the passenger side seat.

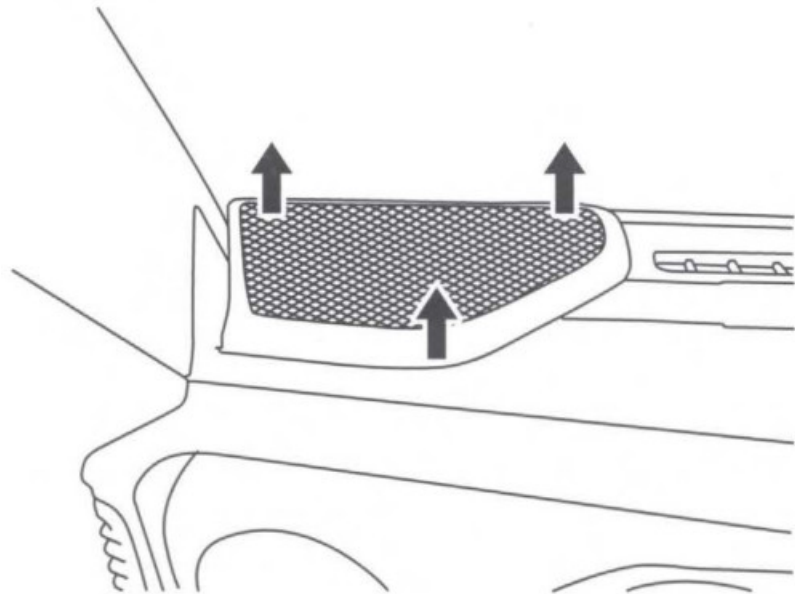


8. Tilt the passenger seat towards the back to reveal (2) connectors, disconnect and remove the seat.

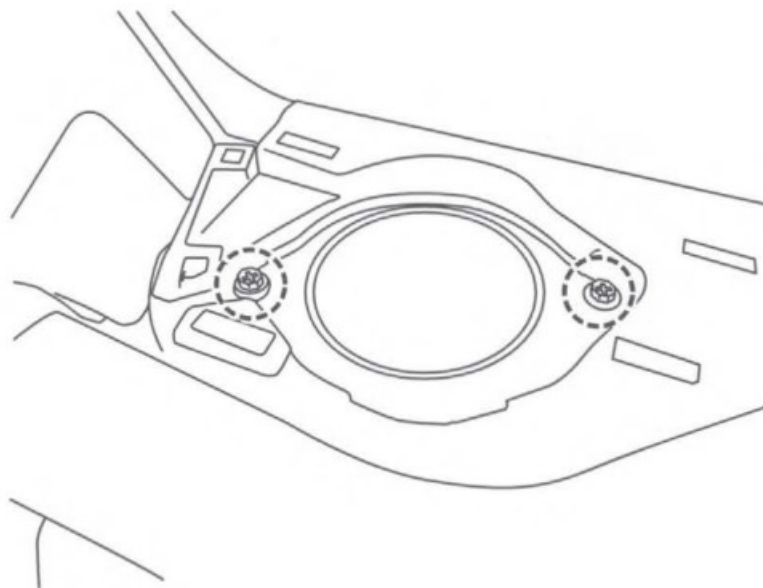




9. Using a panel removal tool, release the clips on the top dash speaker grilles and remove them.

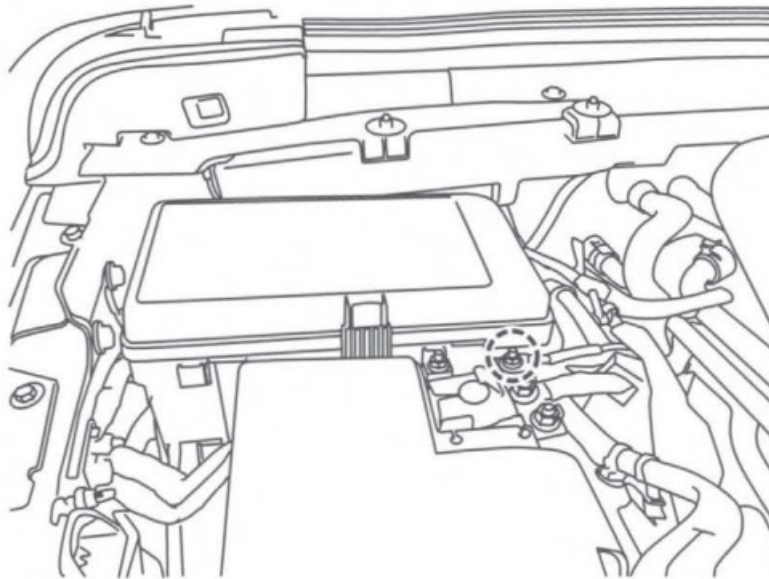


10. Extract (2) 7mm screws from each of the factory top dash speakers and remove them.

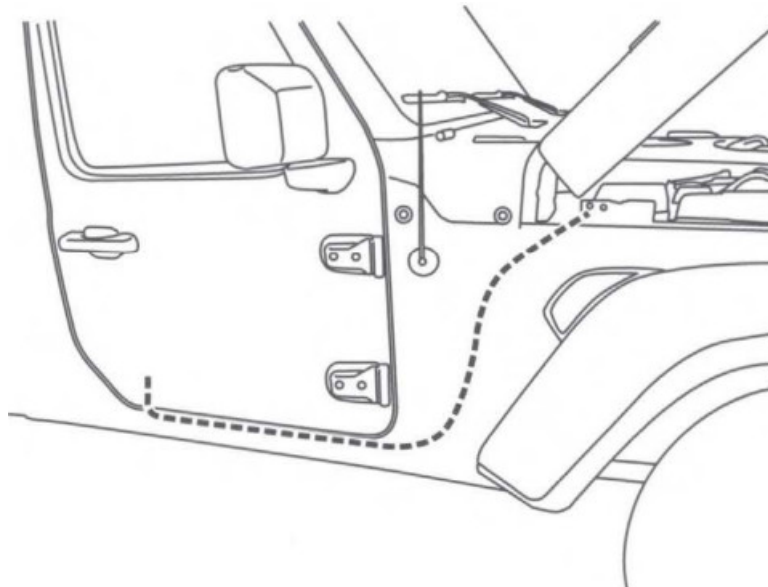


## Installation

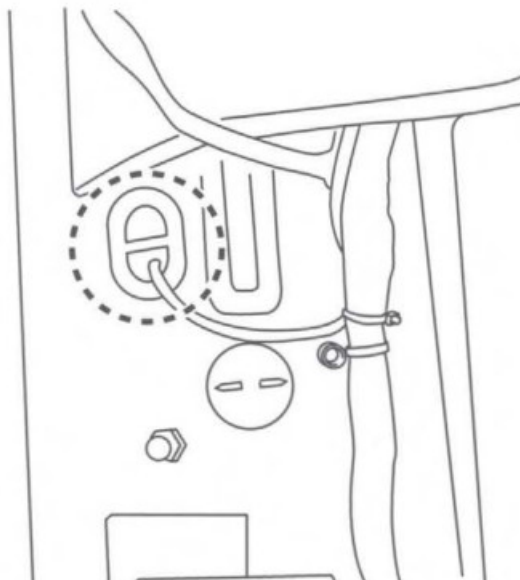
1. Connect the power cable to the Positive(+) battery terminal and route the cable down towards frame of the vehicle. **Note:** The Negative(-) terminal should remain disconnected until the installation is completed.



2. Route the power cable following the factory harness along the vehicle's frame.

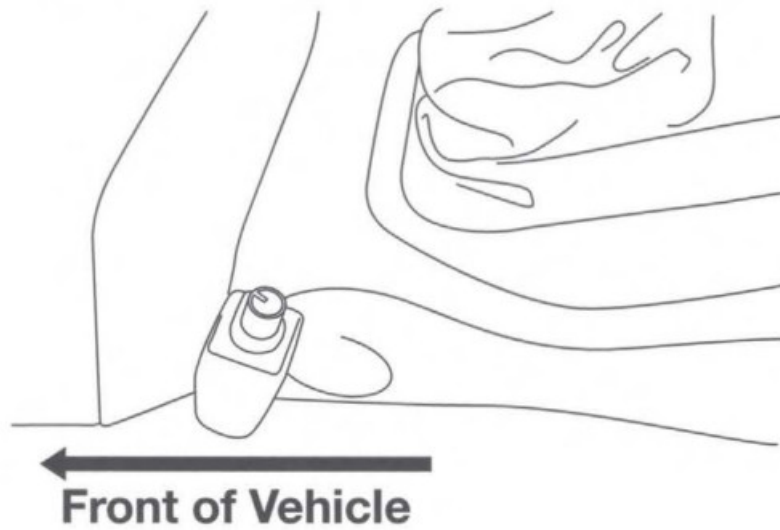


3. Route the Positive(+) power cable through the grommet under the carpet and pull the power cable from under the vehicle. **Note:** seal the grommet with silicone (not included) to prevent water from entering the cabin.

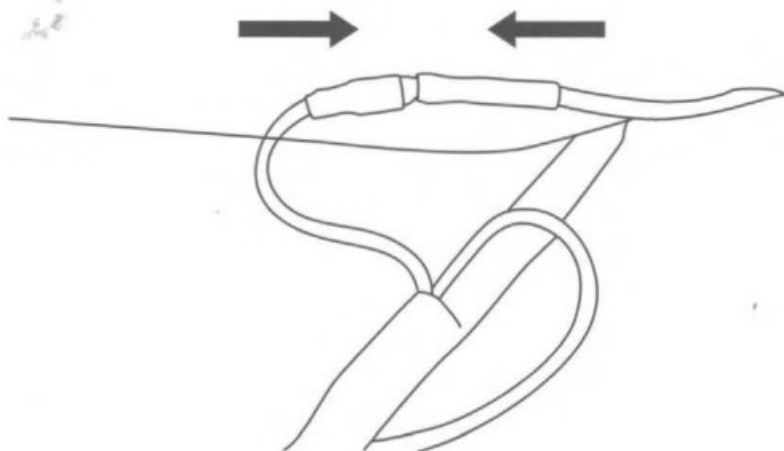


4. Mount the subwoofer level remote on the center console next to the gear shifter and route the cable to the

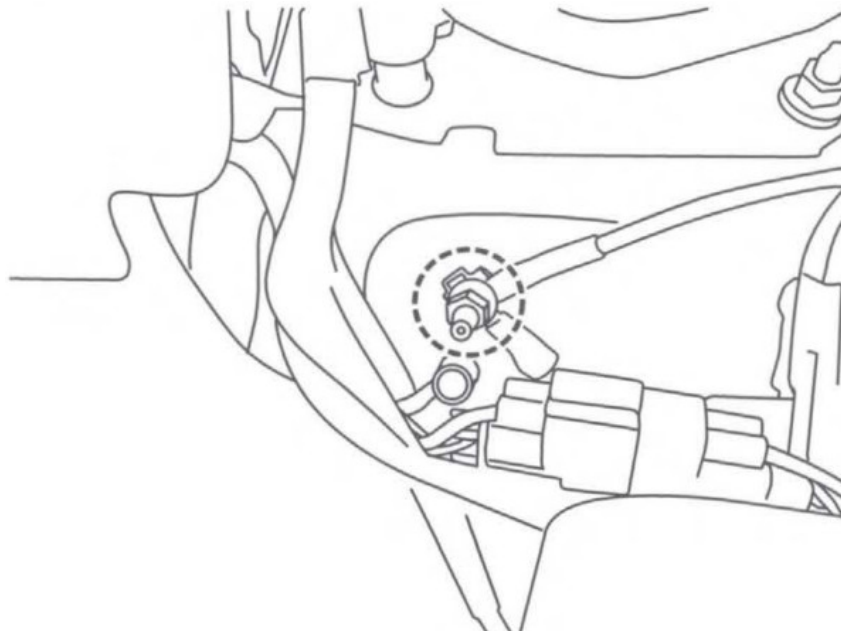
passenger side seat.



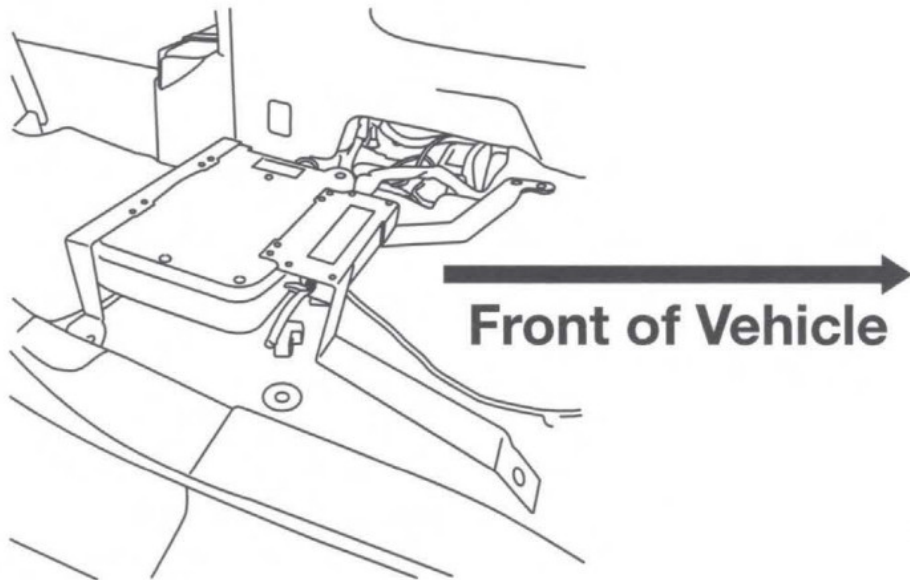
5. Connect the power cable to the main harness.



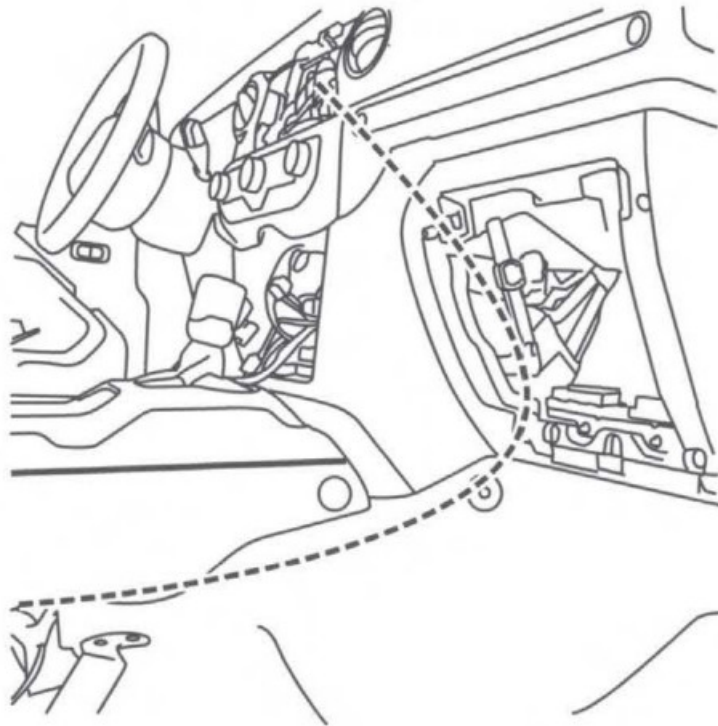
6. Attach the Negative(-) ground terminal to the factory ground stud below the center console.



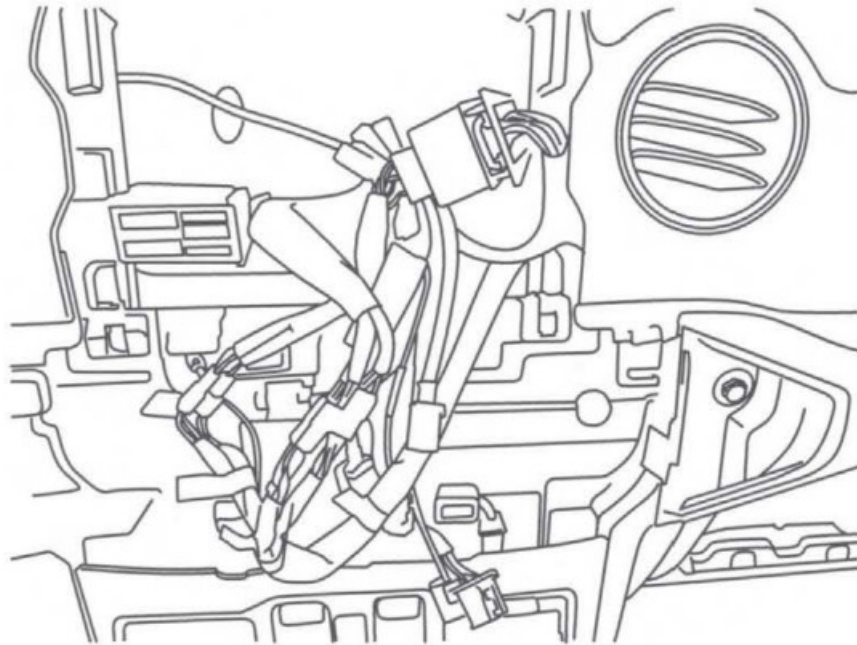
7. Connect the main harness to the amplifier assembly and align it to the seat mounting holes.



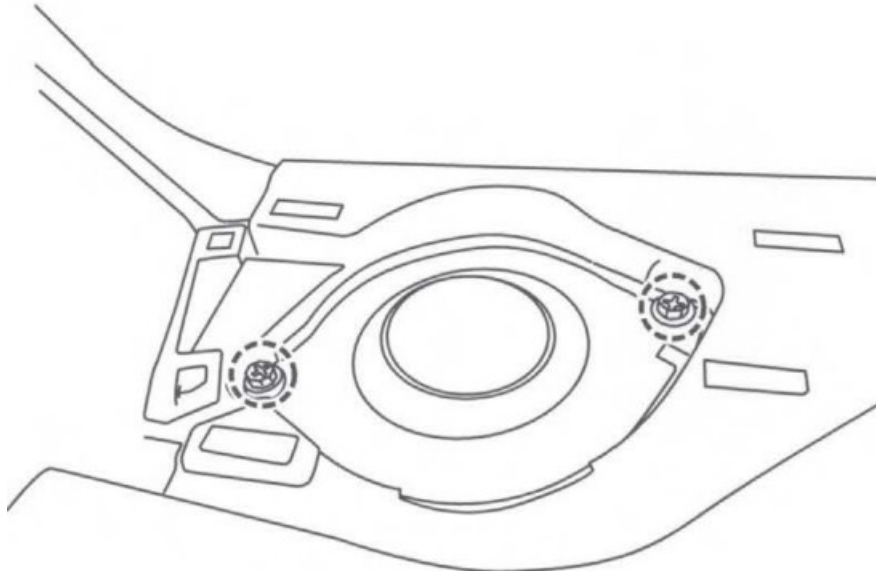
8. Route the main harness along the side of the center console to the radio location.



9. Connect the T-harness and main harness to the radio. Refer to page 8, 9 or 10 for the corresponding system wiring diagram.



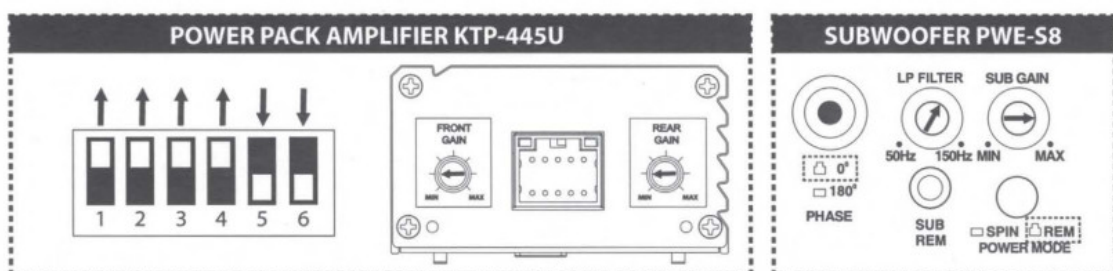
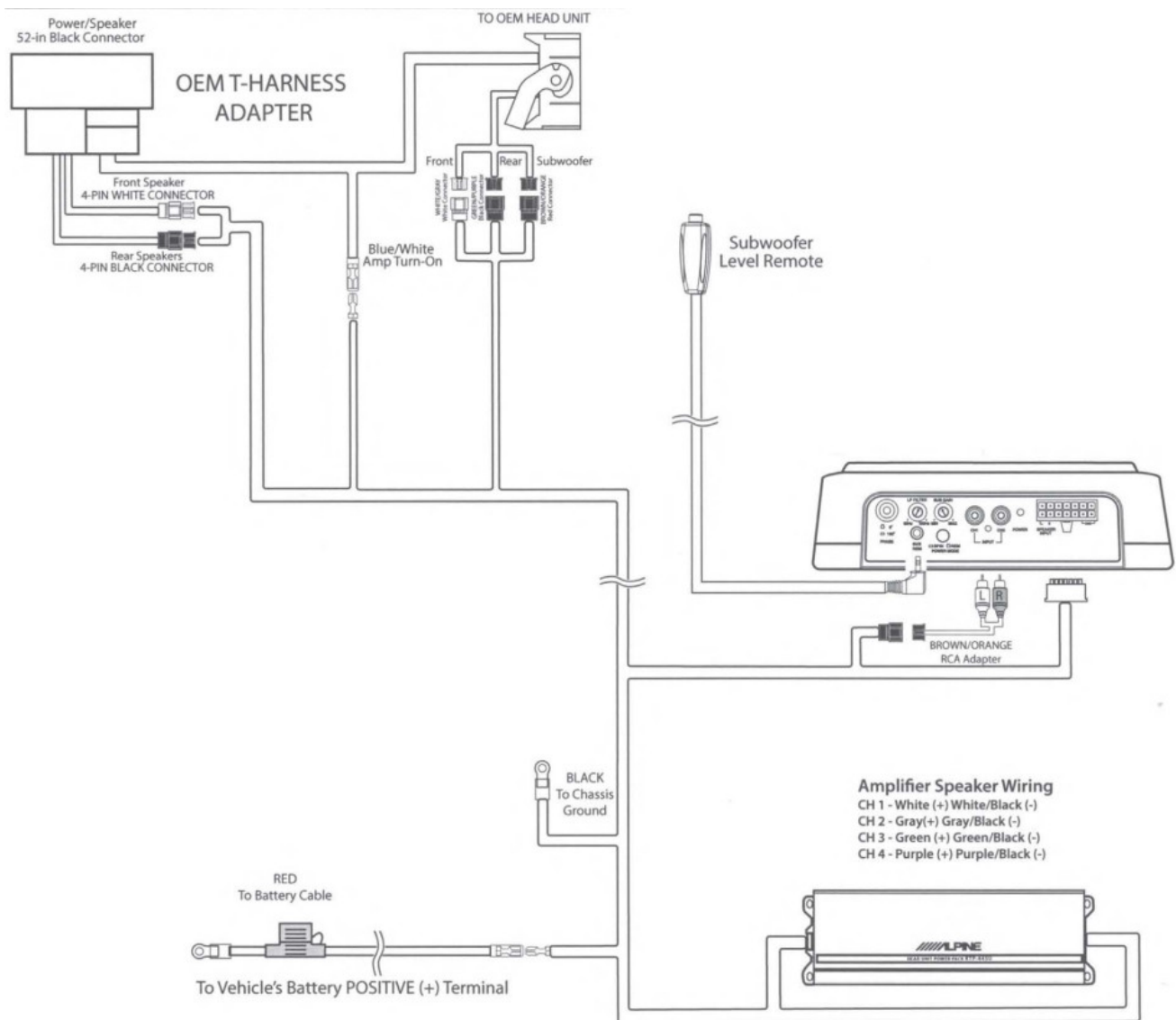
10. Connect the replacement dash speakers and mount them using the factory screws.



11. Return all removed components to their corresponding location and connect the Negative(-) battery terminal.

## **OEM Head Unit Wiring Diagram**

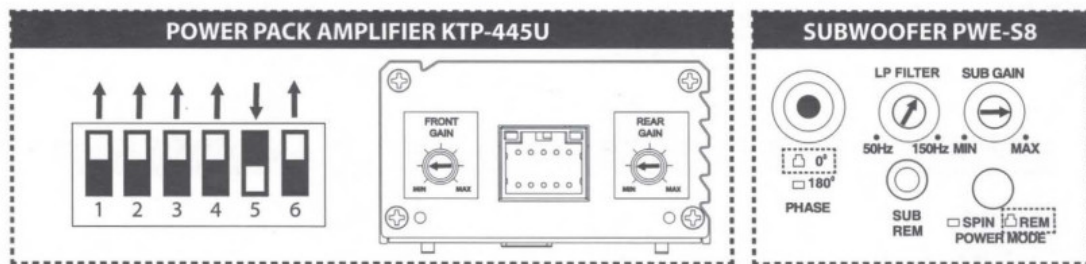
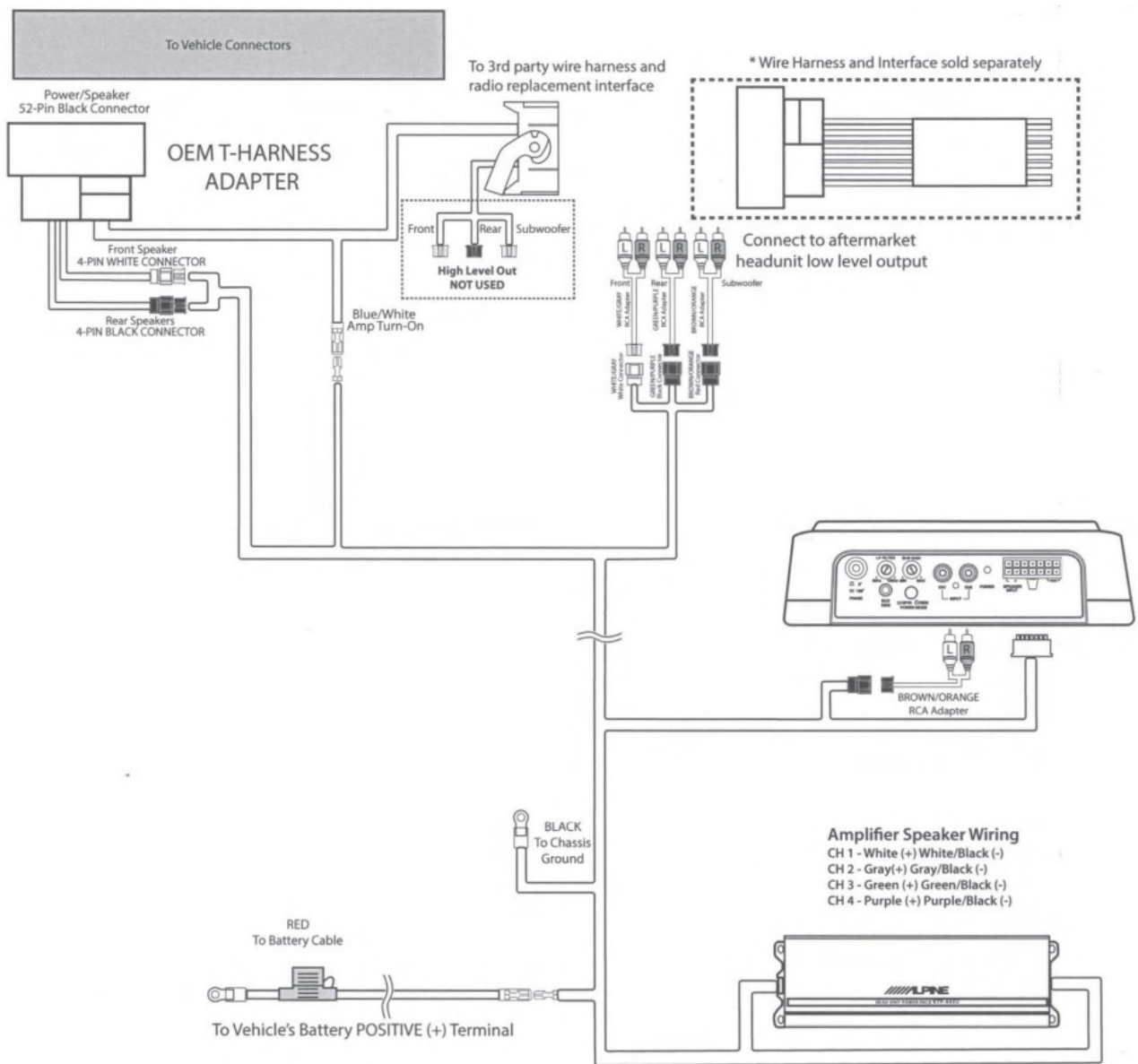
### **To Vehicle Connectors**



**NOTE:** FOR BEST PERFORMANCE SET AMPLIFIER AND SUBWOOFER TO RECOMMENDED SETTINGS AS SHOWN ABOVE

## Aflermarket Head Unit Wiring Diagram

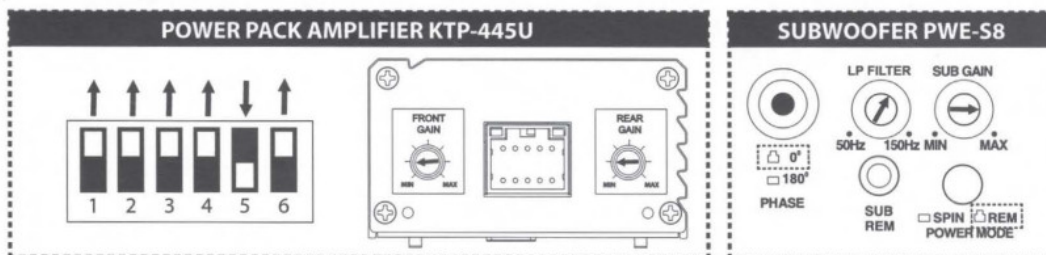
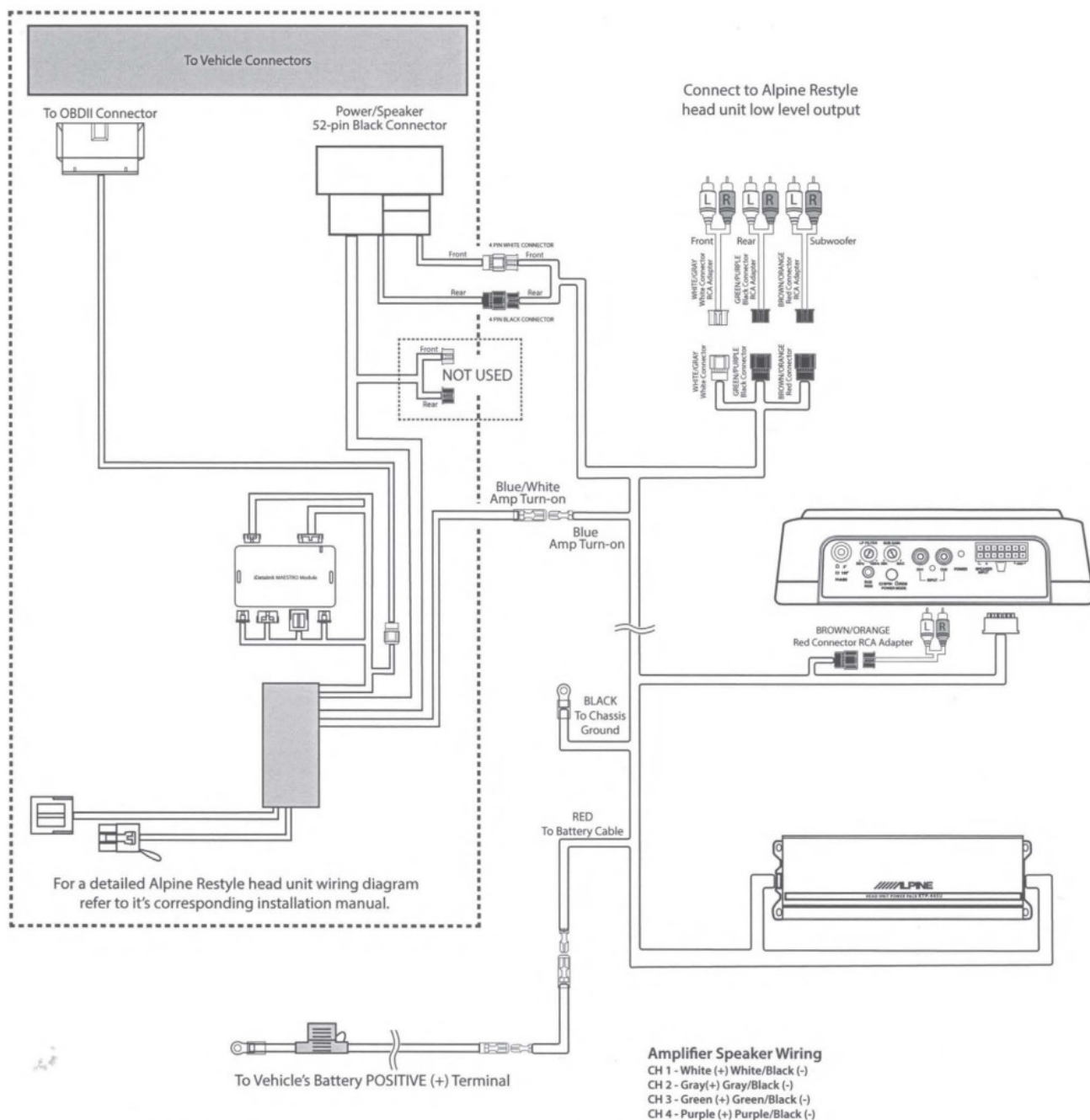




**NOTE:** FOR BEST PERFORMANCE SET AMPLIFIER AND SUBWOOFER TO RECOMMENDED SETTINGS AS SHOWN ABOVE

## Alpine Restyle Head Unit Wiring Diagram





**NOTE:** FOR BEST PERFORMANCE SET AMPLIFIER AND SUBWOOFER TO RECOMMENDED SETTINGS AS SHOWN ABOVE

## 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 a 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 recommended setting (refer to the corresponding wiring diagram).   |
|         |   | Audio Phase may be reversed.                                   | Ensure that the PHASE is set to 0°.  |
| 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.   |

## 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 three years 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 re installation 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.

## Notification

Congratulations on your purchase of an Alpine Restyle System! Alpine Restyle products are covered under a 3-year Manufacturer's limited warranty from the date of the first consumer purchase. PLEASE NOTE THAT THIS PACKAGE INSERT IS NOT THE LIMITED WARRANTY ITSELF. To read and understand the Limited Warranty, please see the Limited Warranty which is printed in the owner's manual and also may be found at [alpine-usa.com/support](http://alpine-usa.com/support).

We encourage you to register this product on Alpine's website at [www.alpine-usa.com/registration](http://www.alpine-usa.com/registration) at the time it is purchased and installed.

We are here to help with any questions you have about your Alpine Restyle product. For any questions, please contact us at 1-800-832-4101, Monday – Friday, 7 AM – 5 PM PST.

We appreciate your support of Alpine Electronics.



## READ BEFORE INSTALLATION

Our goal is to improve your in-vehicle experience. To achieve that, we are here for you. For installation assistance, questions about using your new Alpine Restyle System or if you're having problems with your Alpine product, we can help. Please choose one of the methods below for resolution to any issues you may have.

## TECHNICAL SUPPORT

We are here to help with any questions you have about your Alpine Restyle product. For any questions about using your Alpine Restyle System and installation support, get in touch with us:

**800-TECH-101**  
**Monday, Tuesday, Friday**  
**7 AM – 5 PM PST**

**Online Support Center**  
[supportalpineusa.custhelp.com](http://supportalpineusa.custhelp.com)


**Owner's Manuals**  
[alpine-usa.com/support](http://alpine-usa.com/support)

## SHARE YOUR #ALPINERESTYLE

Alpine Restyle is not just a product, it's a lifestyle. Share yours with us today using #AlpineRestyle.



## Documents / Resources

|  |   |
|--|---|
|  <b>READ BEFORE<br/>INSTALLATION</b><br>Our goal is to improve your in-vehicle experience. To achieve this, we are here for you. For installation assistance, questions about using your Alpine Restyle System or if you're having problems with your Alpine product, we can help. Please choose one of the methods below for installation or any doubts you may have.<br><b>CONTACT SUPPORT</b><br>We are here to help with any questions you have about your Alpine Restyle product. For any questions about your Alpine Restyle System and installation support, get in touch with us.<br>800-722-5555<br>800-722-5555<br>800-722-5555<br>800-722-5555<br>Online Support Center<br>support@alpine-usa.com<br>Owner's Manuals<br>alpine-usa.com/manuals<br><b>SHARE YOUR ALPINE RESTYLE</b><br>Alpine Restyle is not just a product, it's a lifestyle. Share your restyle on social media using #AlpineRestyle.<br>Facebook<br>Twitter<br>Instagram<br>www.alpine-usa.com | <p><a href="#">Alpine PSS-23WRA2 Restyle Speaker System</a> [pdf] Instruction Manual</p> <p>PSS-23WRA2 Restyle Speaker System, PSS-23WRA2, Restyle Speaker System, Speaker System, System</p> |
|--|---|

## References

- [Alpine | Support](#)
- [USA Location information - USA.com](#)
- [Alpine | Car Audio, Stereo, Speakers, Subwoofers, and Amps](#)
- [User Manual](#)