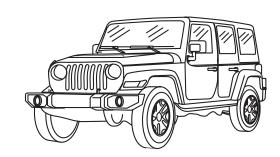


Jeep Wrangler PSS-24WRA Installation Manual

Model: Wrangler JL 2018-UpModel: Gladiator JT 2020-Up



	Model	Year
Jeep	Wrangler JL**	2018 – Up
	Gladiator JT**	2020 – 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.

Introduction

Congratulations on purchasing the PSS-24WRA. This installation manual is designed to take you through
the step-by-step installation of PSS-24WRA into a 2018-Up Jeep Wrangler JL or Jeep Gladiator JT 2020-Up.
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 4-5 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.

Explanations of Injury and Damage That May Result from Incorrect Use

<u> </u>	Ignoring the content marked by this indication and using the product incorrectly is expected to lead to death or serious injury.	
<u> </u>	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)	
<u> </u>	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.



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 will obstruct the driver's forward view; interfere with the operation of the steering wheel, gear shift, or the like; or pose a threat to passengers. Doing so could lead to an accident or injury.

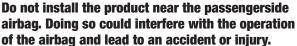


When making a hole in the vehicle body, be careful to avoid damaging pipes, the fuel tank, electrical wiring, and the like. This kind of damage could lead to an accident or fire.



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.







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.



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.



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.



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



● 3/15

Tools Required

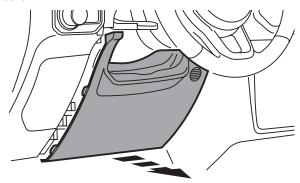
Wire Strippers	Sockets: 7mm, 8mm, 10mm, 13mm	Panel Removal Tools
Wire Cutters	Extension	Ratchet
	@	
#2 Phillips Screwdriver	Torx T15, T20, T30, T50	5mm Allen Wrench
Digital Multimeter	Cordless Power Drill	Air saw or similar
Silicone		

Accessory List

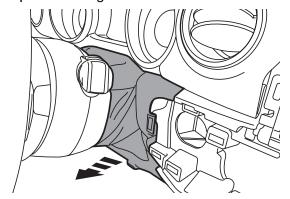
Front speaker pods	6.5" Woofers	Tweeters
Amplifier Assembly	Tweeter Adaptors	SPV-65-JLT
Template	Cable Ties (10)	Replacement Bolts x 8
Crossovers	Bass Control Knob	Main Harness
T-Harness	Power Cable	RCA Adaptors
Polyfill Sheets (4)		

Front speaker removal and installation

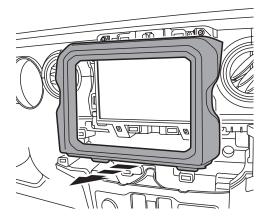
1 Unclip and remove the panel below the steering column.



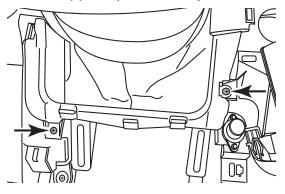
3 Unclip the steering column shroud then set aside.



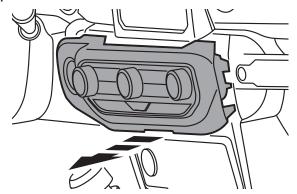
5 Remove the (2) Phillips screws securing the radio trim panel, then unclip and remove.



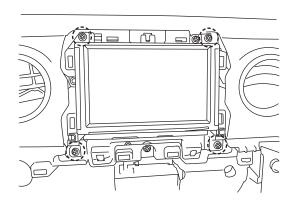
2 Remove the (2) Phillips screws exposed.



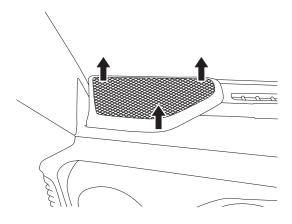
4 Unclip, unplug, and remove the climate control panel.



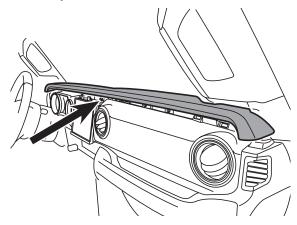
6 Extract the (4) 7mm, screws from the factory radio, disconnect and remove it.



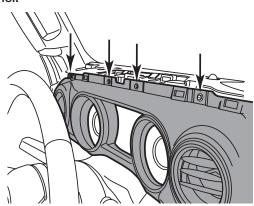
7 Using a panel removal tool, release the clips on the top dash speaker grilles and remove them.



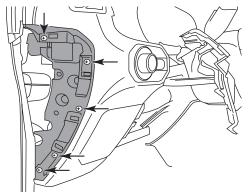
8 Remove (1) Phillips screw securing the dash pad, then unclip and remove.



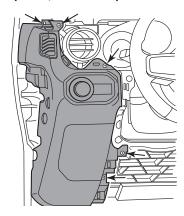
9 Remove the (4) Phillips screws securing the instrument panel on the left side, unclip and remove panel.



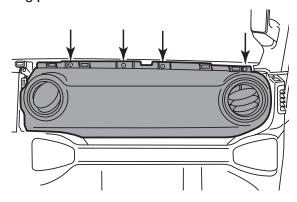
10 Remove panel on the left side of the dash then remove the (5) Phillips screws exposed.



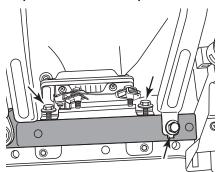
11 Remove the (5) Phillips screws securing the left side dash panel, then unclip and remove.



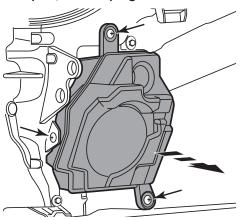
12 Remove the (4) screws securing the top of the air bag panel.



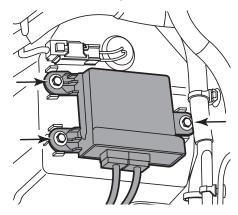
13 Remove the (4) 10mm screws and the (1) 8mm screw securing the dashboard brace. The brace only needs loosened to aid in removing the speaker pod in the next step.



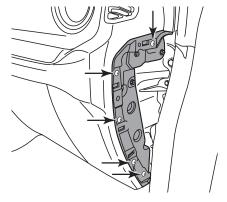
14 Remove the (3) Phillips screws securing the speaker pod, then unplug and remove. the pod.



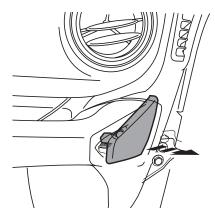
15 There is an electronic module attached to the back of the pod which must be removed and reused in kit assembly.



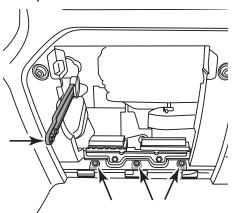
Open the passenger door and remove the panel on the right end of the dash. Remove the (5), Phillips screws exposed.



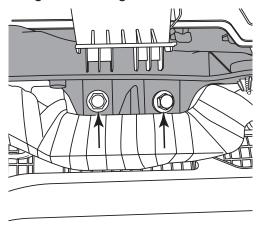
17 Pry outward in the bolt cover on the right end of the grab bar and remove the (2) 10mm bolts securing it to the dash.



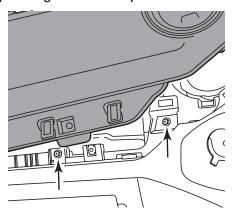
18 Remove the glovebox then remove the (3) Phillips screws exposed.



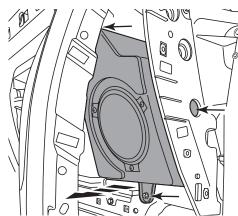
19 Looking up under the airbag assembly, remove the (2) 13mm, bolts that secure the back of the passenger side airbag.



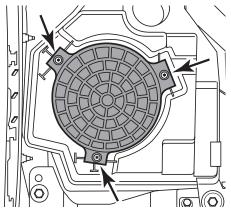
20 Unclip and slightly release the airbag panel, just enough to expose the (3) Phillips, screws securing the passenger side dash panel.



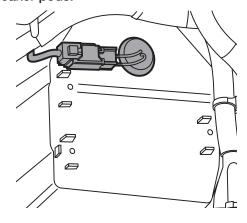
21 Carefully unclip and pull out on the dashboard panel enough to expose the speaker pod. Remove the (3) Phillips, screws securing the pod and remove.



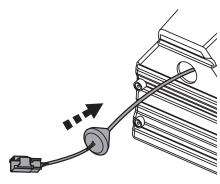
22 Remove the factory speakers from the speaker pods.



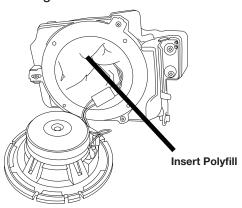
23 Remove the grommet and factory wiring from the speaker pods.



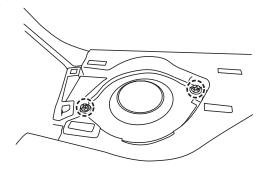
24 Insert the factory wire into the replacement speaker pods and pull gromment thru until it seats into the hole.



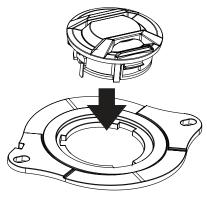
25 Insert (1) polyfill sheet into each speaker pod, connect and mount Speakers using factory screws from step 22 then reinstall speaker pods in reverse order and reassemble dash components to their original location.



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

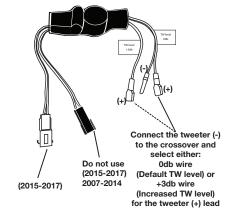


27 Firmly press tweeter into mounting adaptor plate.

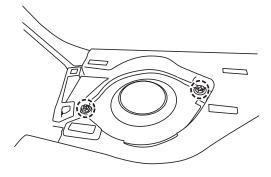


28 Connect crossover as shown.

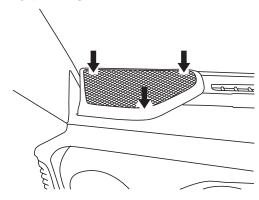
Note: it is recommended to use the red (+) lead when utilizing the OEM radio.



29 Connect tweeter to crossover and mount them using the factory screws.

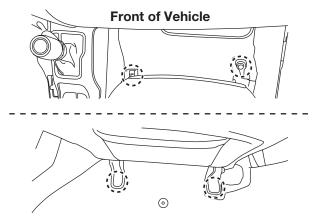


30 Align the factory tweeter grill clips and secure by firmly pressing downward.

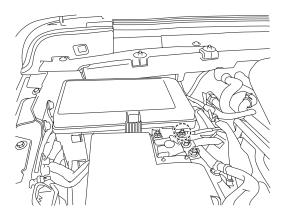


Sub Woofer/Amp Installation

1 Extract (4) T50 Torx Screws from the passenger side seat.



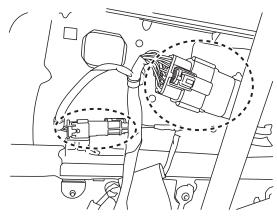
3 Connect the power cable to the Positive (+) battery terminal and route the cable down towards frame of the vehicle.



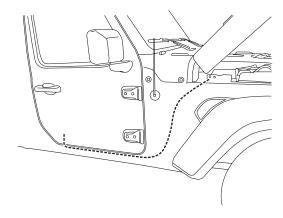
5 Route the Positive (+) power cable through the grommet under the carpet and pull the power cable from under the vehicle. Note: seal the grommet with silicone (not included) to prevent water from entering the cabin.



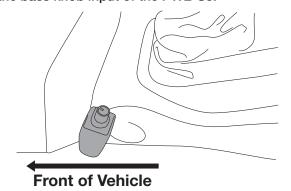
2 Tilt the passenger seat towards the back to reveal (2) connectors, disconnect and remove the seat.



4 Route the power cable following the factory harness along the vehicle's frame and secure using supplied cable ties.

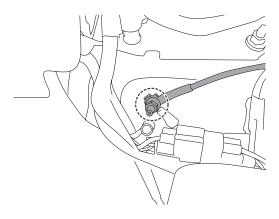


6 Mount the subwoofer level remote on the center console next to the gear shifter and route the cable to the passenger side seat. Plug 3.5mm plug into the bass knob input of the PWE-S8.

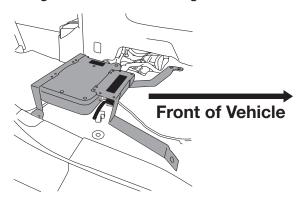


Sub Woofer/Amp Installation (continued)

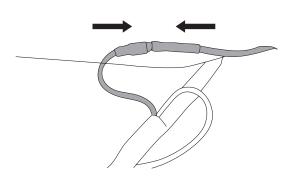
7 Remove 10mm nut and attach the negative (-) ground terminal to the factory ground stud below the center console.



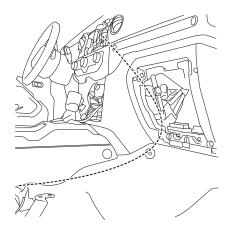
8 Connect the main harness to the amplifier assembly and align it to the seat mounting holes.



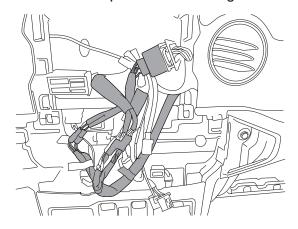
9 Connect the power cable to the main harness.



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

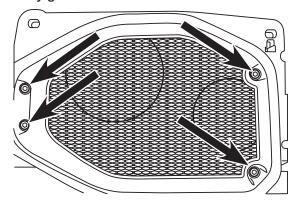


11 Connect the T-harness and the radio with either the Tharness or the RCA adaptors. Refer to page 15 and 16 for the correct system diagram. Return all removed components to their original location.

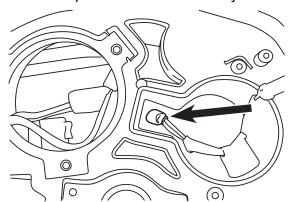


Rear Soundbar Speaker Removal & Installation

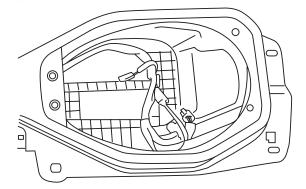
1 Extract the (4) 5mm, allen head, bolts and remove factory grills.



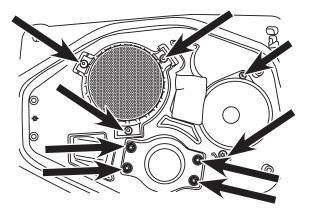
3 Remove gromment holding speaker wire in place and secure speaker wire out of the way.



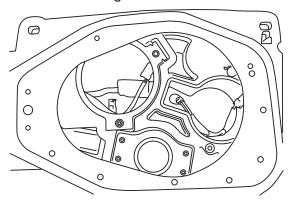
With a reciprocating air saw or preferred cutting device, cut along the line from step 4.
Note: Be cautious when cutting not to cut thru the topside of the sound bar.



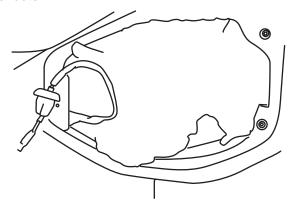
2 Extract the (5) T20, torx, screws from the speakers and the (4) T30, torx, screws from the port and remove.



4 Use supplied template and mark area of each side for soundbar cutting.

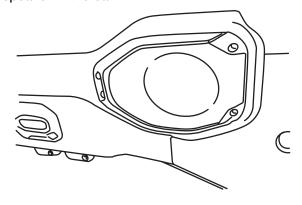


6 Fill the speaker cavities with supplied polyfil sheets.



Rear Soundbar Speaker Removal & Installation (continued)

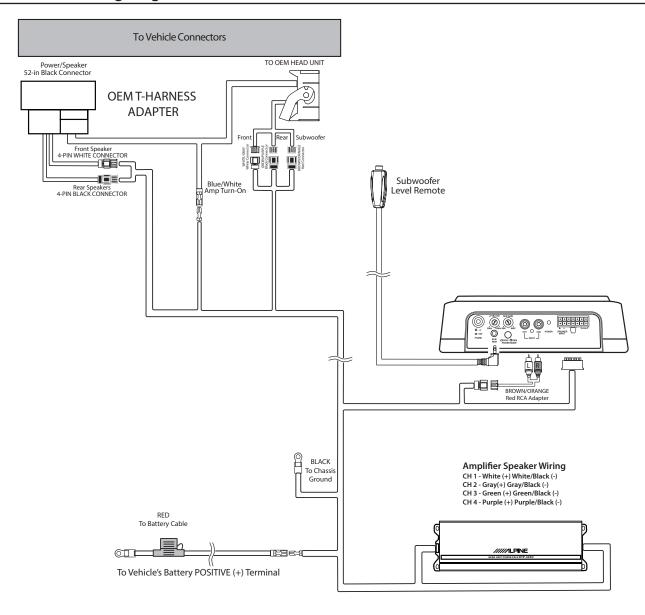
Plug in the speaker. Use the supplied replacement bolts (not the OEM 5mm allen heads) and mount the speaker in the bar.

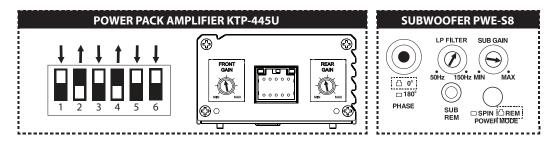


Troubleshooting Guide

	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 reccommended 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.

OEM Head Unit Wiring Diagram





NOTE: FOR BEST PERFORMANCE SET AMPLIFIER AND SUBWOOFER TO RECOMMENDED SETTINGS AS SHOWN ABOVE Black squares indicate position of switches.

Alpine Restyle Head Unit Wiring Diagram

