Jeep Wrangler PSS-23WRA Sound System Installation Manual

• Model: 4-Door Wrangler Unlimited JL

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*Not compatible with factory amplified systems

Model Year: 2018 – UP

Jeep	Model	Year
беер	Wrangler Unlimited	2018 – UP

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* 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.

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

- 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

A Warning	Ignoring the content marked by this indication and using the product incorrectly may lead to death or serious injury.
A Caution	Ignoring the content marked by this indication and using the product incorrectly may lead to injury or property damage.

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Types of Precautions

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

✓ Warning

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



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 Forbidden Mandatory an accident or fire.

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

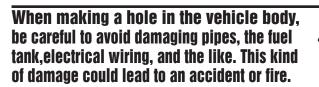


Before you begin wiring, remove the '!around wire from the negative terminal of 2the battery. Failing to do so could lead to electric shock or iniury.

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



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



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

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.



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 Forbidden 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 Forbidden 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.



Tools Required

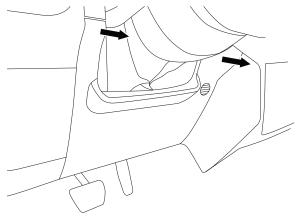
Panel Removal Tool	Sockets	Phillips Screwdriver
	7mm 10mm	
Wire Cutters	Extension	Ratchet
	@	
T50 Torx	Cordless Power Drill	Cordless Impact Gun
	C C C	

Accessory List

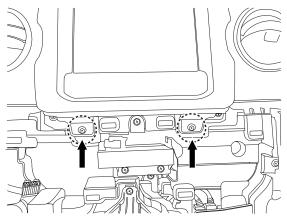
Amplifier Assembly	T-Harness	Main Harness
(10) Cable Ties	RCA Adapters	Power Cable
Front Top Dash Speakers		

Factory Equipment Removal Process

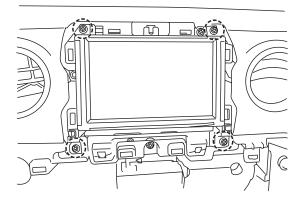
1 Use a panel removal tool to release (2) clips on the top of the plastic knee cover and remove it.



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

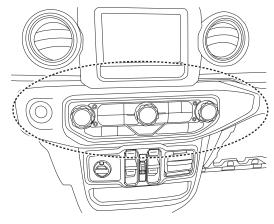


5 Extract (4) 7mm/Phillips screws from the factory radio, disconnect and remove it.

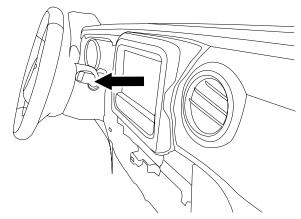


2 Use a panel removal tool to release (10) clips on the HVAC control panel, disconnect and remove it.

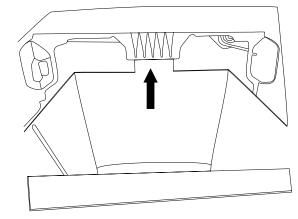
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4 Use a panel removal tool to release (6) clips on the radio bezel and remove it.

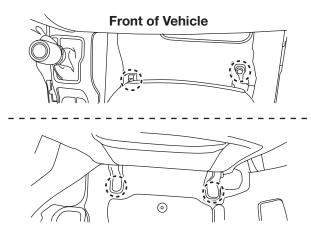


6 Lift the middle tab on the passenger side glovebox to release and remove it.

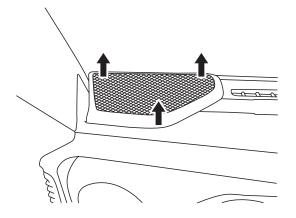


Factory Equipment Removal Process (continued)

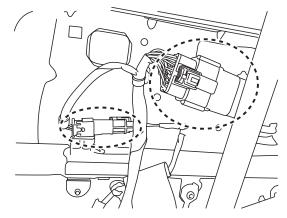
7 Extract (4) T50 Torx Screws from the passenger side seat.



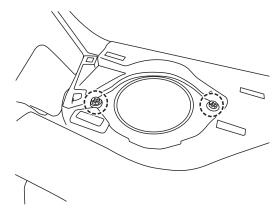
9 Using a panel removal tool, release the clips on the top dash speaker grilles and remove them.



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

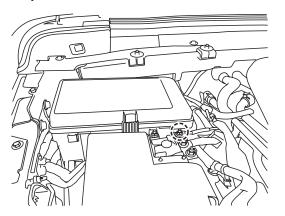


10 Extract (2) 7mm screws from each of the factory top dash speakers and remove them.

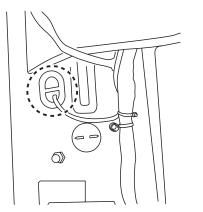


Installation

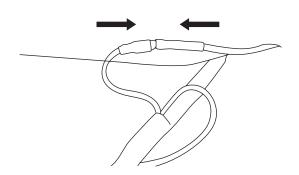
1 Connect the power cable to the Positive (+) battery terminal and route the cable down towards frame of the vehicle. Note: The Negative (-) terminal should remain disconnected until the installation is completed.



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.

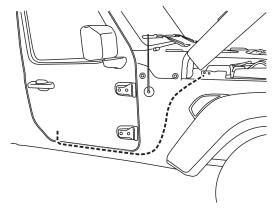


5 Connect the power cable to the main harness.

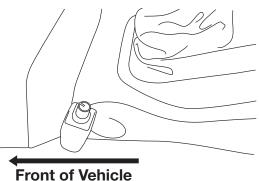


2 Route the power cable following the factory harness along the vehicle's frame.

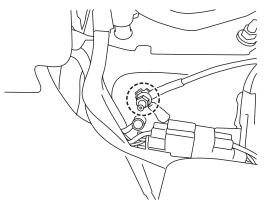
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4 Mount the subwoofer level remote on the center console next to the gear shifter and route the cable to the passenger side seat.

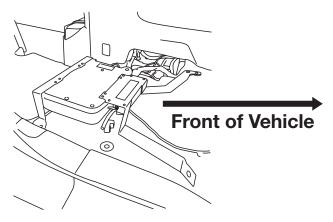


6 Attach the Negative (-) ground terminal to the factory ground stud below the center console.

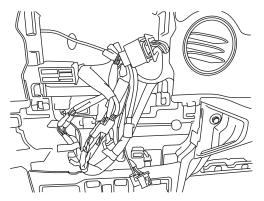


Installation (continued)

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



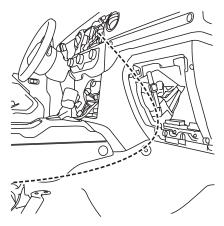
9 Connect the T-harness and main harness to the radio. Refer to page 8, 9 or 10 for the corresponding system wiring diagram.



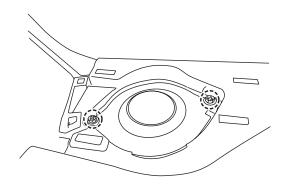
11 Return all removed components to their corresponding location and connect the Negative (-) battery terminal.

 ${\bf 8}$ Route the main harness along the side of the center console to the radio location.

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



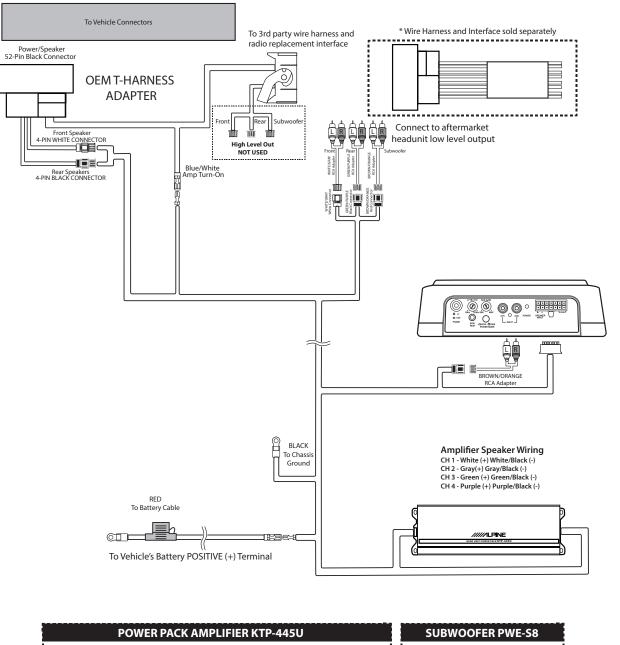
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OEM Head Unit Wiring Diagram		
To Vehicle Connectors	Subwoofer Level Remote	
RED To Battery Cable	CH 3 - Green (+) Green/Black (-) CH 4 - Purple (+) Purple/Black (-)]

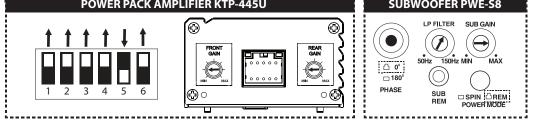
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POWER PACK AMPLIFIER KTP-445U SUBWOOFER PWE-S8 LP FILTER SUB GAIN \odot \odot Į $\overline{\mathbf{e}}$ -----FRONT GAIN ζ 50Hz 150Hz MIN MÂX 凸 0° ſ \bigcirc 🗆 180° PHASE 3 4 5 6 2 SUB REM 1 <₿0 ୍ଷ į., .1

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

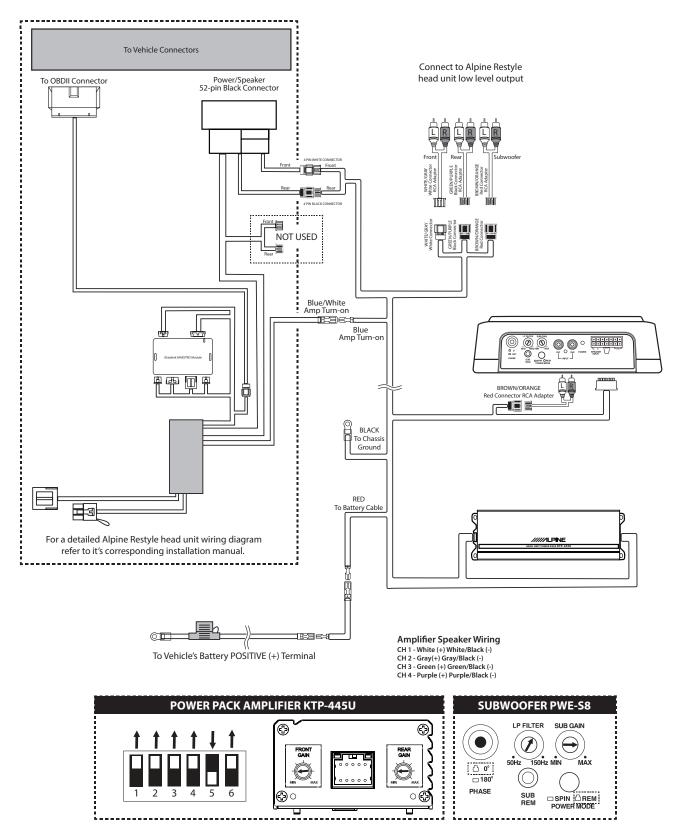
Aftermarket Head Unit Wiring Diagram





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

Sy	mptom	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°.
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.