

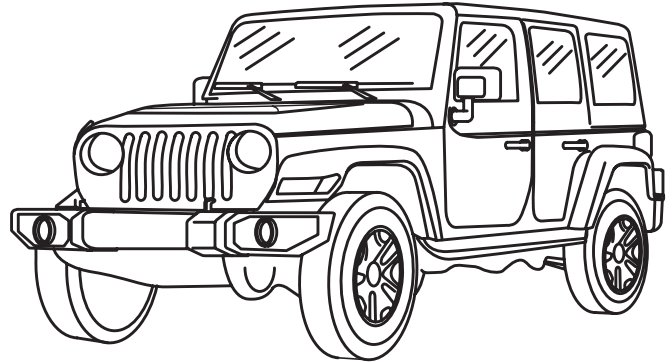
Jeep Wrangler

i509-WRA-JL

9" Restyle In-Dash System

Installation Manual

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



Jeep	Model	Year
	Wrangler JL **	2018 - Up
	Gladiator JT**	2020 - Up

** OEM amplified vehicles require the KCX-F200INT (sold separately)

* 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 i509-WRA-JL. This installation manual is designed to take you through the step-by-step installation of i509-WRA-JL 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 3-4 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


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

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


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

Do not install the product near the passenger-side airbag. Doing so could interfere with the operation of the airbag and lead to an accident or injury.  Forbidden


Bundle cords so that they don't interfere with driving. Wrapping cords around the steering wheel, gearshift, brake pedal, or the like could lead to an accident or damage equipment. 


 **Caution**


Connect the product properly according to the instructions. Failing to do so could lead to fire or an accident.  Forbidden

Do not sandwich cords between the seat railing or allow them to touch protrusions. Resulting breaks or shorts could lead to electric shock or fire. 





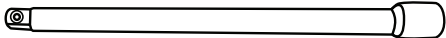
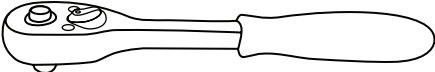

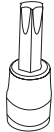
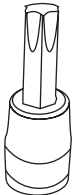

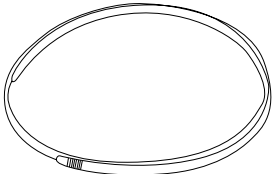
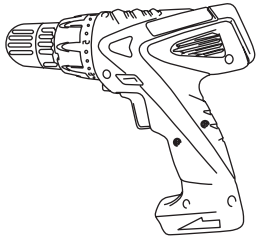
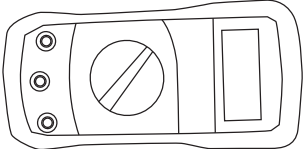
Do not block vents or heat sinks. Doing so could lead to fire or damage equipment. 

Use the accessories according to the instructions, and attach them securely. Failing to do so could lead to an accident or damage equipment.  Forbidden

Do not install the product where it may be exposed to water or in a place with high levels of humidity or dust. Doing so could lead to fire or damage equipment.  Forbidden

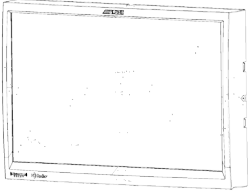
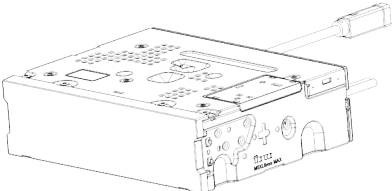
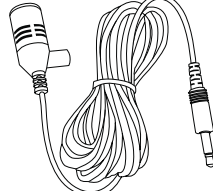
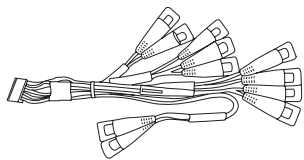
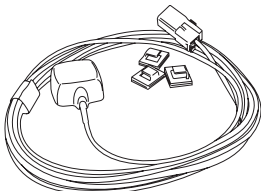
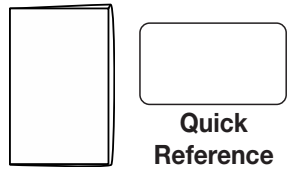

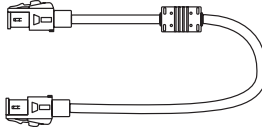
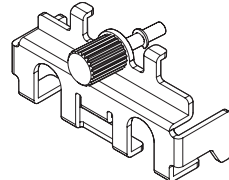


The installation and wiring of this product requires specialized skills and experience. Have the product installed by an Alpine authorized dealer. 

Tools Required

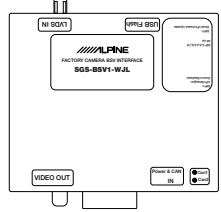
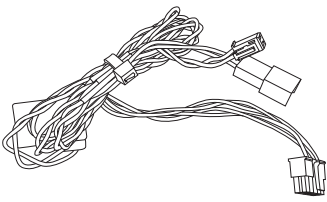
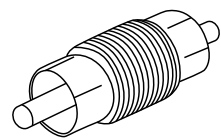
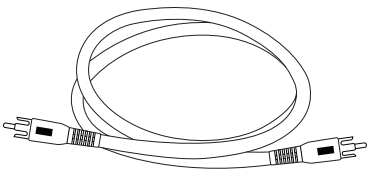
10mm Socket	8mm Socket	7mm Socket
		
Wire Cutters	Extension	Ratchet
		
#2 Phillips Screwdriver	Torx T20	Torx T47
		
Panel Removal Tools	Wire Fishing Tool	Cordless Power Drill
		
Digital Multimeter		
		

Accessory List

Head Unit Box Parts (i509)

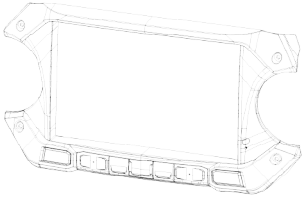
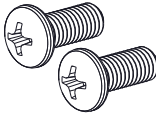
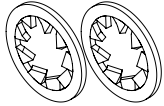
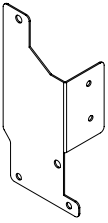
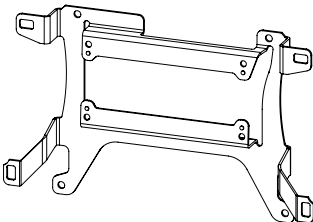
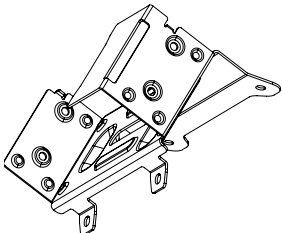
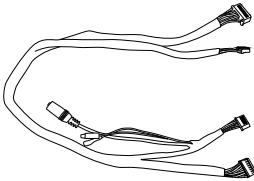
<p>i509 Display Unit</p>	<p>i509 Source Unit</p>	<p>External Bluetooth Mic</p>
		
<p>AUX/Pre Out Harness</p>	<p>GPS Antenna</p>	<p>Documents</p>
		 <p style="text-align: center;"> Alpine Registration Card </p> <p style="text-align: center;"> Quick Reference Guide </p>
<p>Direct Camera Adapter</p>	<p>Display Cable</p>	<p>Source Unit HDMI Bracket</p>
		
<p>Anti-Vibration Foam</p>	<p>Screws M5X8LMM x 12</p>	
		

Rear Camera Retention (SGS-BSV1-WJL V2.0)


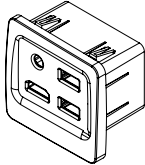

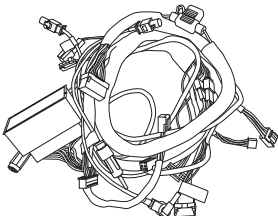
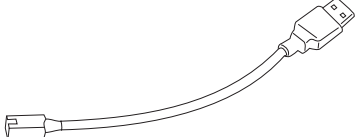
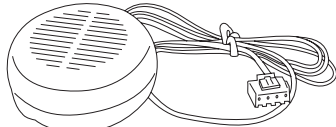
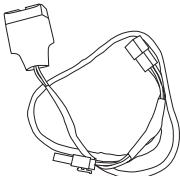
<p>Camera Module</p>	<p>Camera Power Harness</p>	<p>Camera Male To Male RCA Coupler</p>
		
<p>Rear Camera RCA (Not Used)</p>		
		

Accessory List

Installation Kit

<p>i509-WRA-JL Display Bezel</p> 	<p>Screws M5X10LMM x 2</p> 	<p>Lock Washers x 2</p> 
<p>Power Inverter Bracket</p> 	<p>Display Bracket</p> 	<p>Tuner Bracket</p> 
<p>Display Power/Key Harness</p> 		

iDatalink Maestro Box Parts (ALP-MRR/ALP-HRN-WJL3)

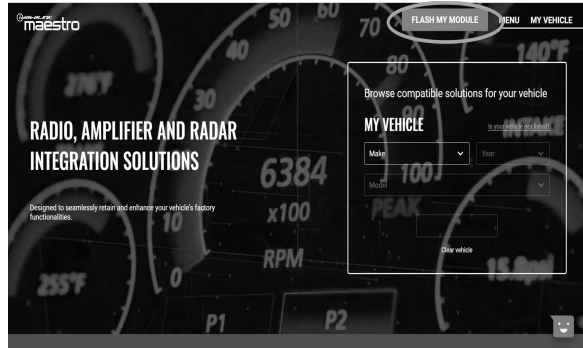
<p>iDatalink Maestro Module</p> 	<p>USB, HDMI, Aux Interface</p> 	<p>Maestro Flashing Cable</p> 
<p>Main Harness</p> 	<p>Mini USB To USB For Center Console Power</p> 	<p>Chime Speaker</p> 
<p>USB Power Adapter</p> 		

Programming The iDataLink Maestro Module

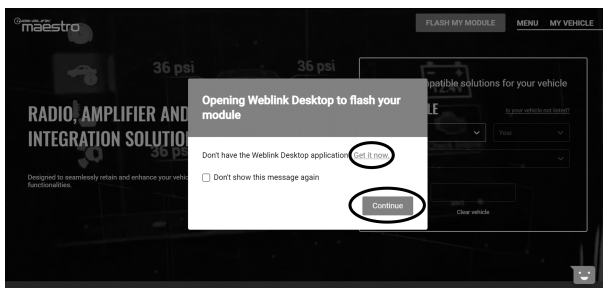
1 INSTALL THE WEBLINK PLUG-IN

Go to:

idatalinkmaestro.com and follow the installation steps. The Maestro module must be programmed specifically for each vehicle and radio. Take care to enter the correct vehicle information, factory options, head unit model, and head unit serial number. The head units serial number is an alphanumeric value which is found on the head units label, underneath the bar code.

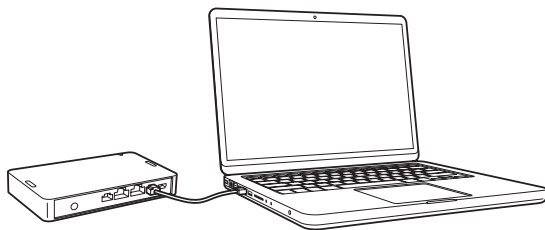


If the plugin is already installed, Click "Continue" and follow the prompts to open. If Plug in is not installed Click "Get it now" and follow prompts to download and install the plug-in



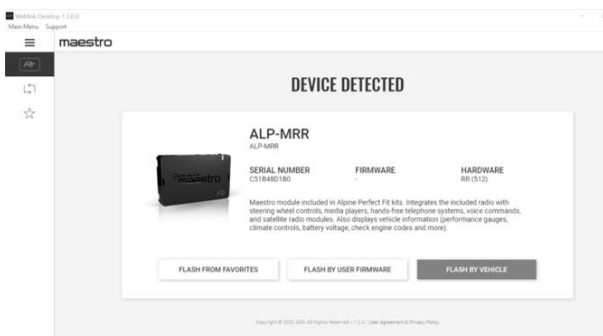
3 CONNECT YOUR MAESTRO MODULE

Use your Maestro module to connect to your PC.



5 PROGRAM YOUR MODULE

Follow the programming steps for your vehicle.

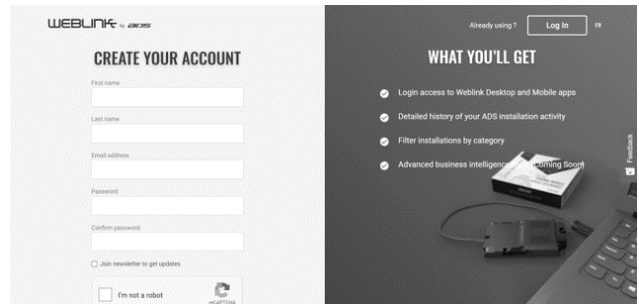


2 REGISTER A WEBLINK ACCOUNT

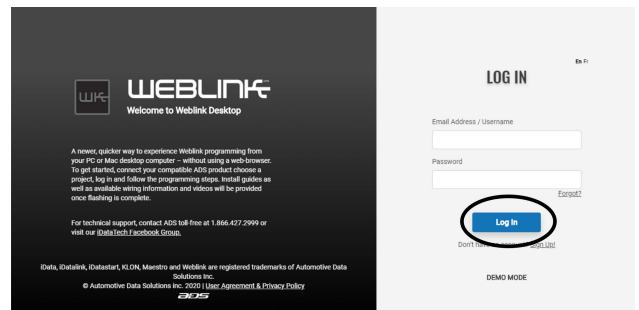
Go to:

Sign Up and complete the registration process.

A confirmation email will be sent to you requiring validation.

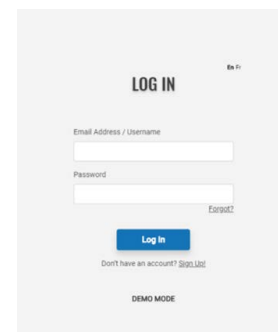


For existing customers, click log in.



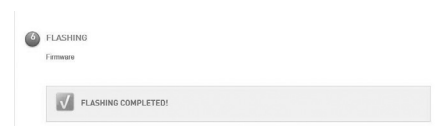
4 LOG INTO WEBLINK

Enter your username and password, then click OK.



6 Once Programming is complete "FLASHING COMPLETED!" will be displayed.

Proceed to the next page to complete installation.



NOTE: If serial number is invalid, Call ADS at 1-866-427-2999 with the serial number.

About The Installation

The different trim levels of the Wrangler JL and the Gladiator JT come with different options which will make the installation vary slightly. If the vehicle has the 115V Power outlet or the Cold Weather Group package then there are different brackets that will need to be used. If your vehicle does not have those then you will not need to use those. If you are installing the i509-WRA-JL in a Gladiator JT then a few of the steps will vary slightly so please take notice to this as you go through the installation. Also the screen size in the pictures may be different if you have the 5.0" display. The following chart shows which options are available on the different trim levels for the Wrangler JL.

2019 Jeep Wrangler	Sport	Sport S	Sport Altitude	Sahara	Rubicon	Sahara Altitude	MOAB
5.0" Touchscreen Display	Standard	Standard	Standard	Not Available	Not Available	Not Available	Not Available
7.0" Touchscreen Display	Not Available	Not Available	Not Available	Standard	Standard	Standard	Standard
115V Power Outlet	Not Available	Not Available	Not Available	Standard	Standard	Standard	Standard
Cold Weather Group	Not Available	Optional	Optional	Optional	Optional	Optional	Optional

Retained Features

STEERING WHEEL CONTROLS	ADVANCED CAMERA FEATURES
Two Functions on Each Button	Front Camera Auto Control
Standard and Expanded Radio Functions	A) Smart Parking
	B) Low Speed Trigger
NAVIGATION OUTPUTS	Side Camera Auto Control
Accessory Power Output (15A)	A) Right Lane Watch
Parking Brake Output	B) Left Lane Watch
Reverse Light Output	4X4 Front Camera Control
Vehicle Speed Pulse Output	A) Offroad 4X4 Trigger
Foot Brake Output	
FACTORY AMPLIFIER	
Amplifier Turn on	
Speed Compensated Volume (Premium Audio)	
Digital Fader (Premium Audio)	
DSP Settings (Premium Audio)	
Gain Adjustment (Premium Audio)	
SECONDARY VEHICLE DISPLAY (IF EQUIPPED)	
Audio Information Display	
Hands Free Info Display	
Navigation Info Display	
VEHICLE SETTINGS	
Access And Modify Vehicle Settings	
CLIMATE CONTROL	
Climate Display And Control On Radio	
GAUGES	
Selectable Performance Gauges	
"Track Pack" Gauges	
Read/Reset Check Engine Codes	
PARK ASSIST	
Retain Parking Assist Chimes	
Distance Display On Screen	
VEHICLE INFO	
Tire Pressure Display	
Battery Voltage Display	
Read/Reset Check Engine Codes	
Door open Status and Warning	
ACCESSORIES	
OEM Accessory Control Integration	

Factory Unit Disassembly Process

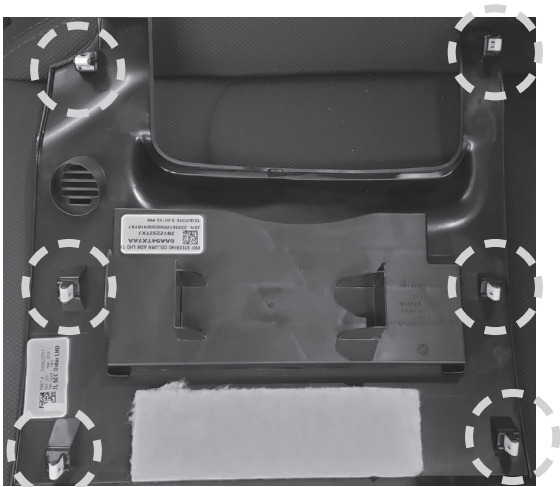
1 As a precautionary measure it's a good idea to mask out the dashboard and panels to prevent scratches.



2 Unsnap the 6 clips and remove the knee panel under the steering wheel using a panel removal tool.



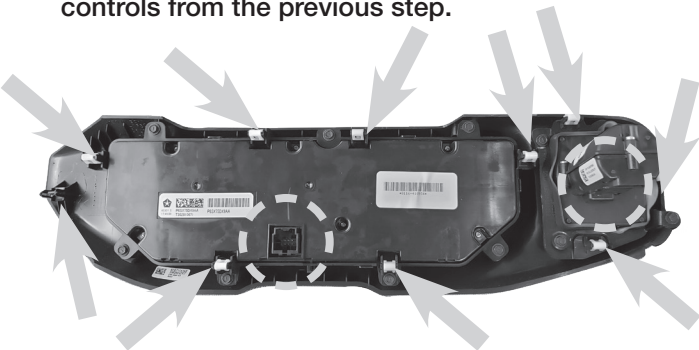
3 The locations of the 6 clips from the previous step.



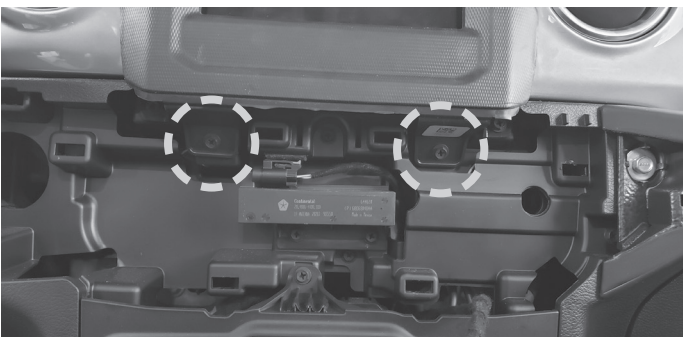
4 Unsnap 10 clips, unplug the 2 harnesses, and remove HVAC panel using a panel removal tool.



5 Locations of the clips and harnesses of the HVAC controls from the previous step.



6 Use #2 Phillips Screwdriver to extract (2) screws from the bottom of the radio bezel.



Factory Unit Disassembly Process (Continued)

7 Unsnap 6 clips and remove radio bezel using a panel removal tool.



8 Unsnap the 6 clips and remove the knee panel under the steering wheel using a panel removal tool.



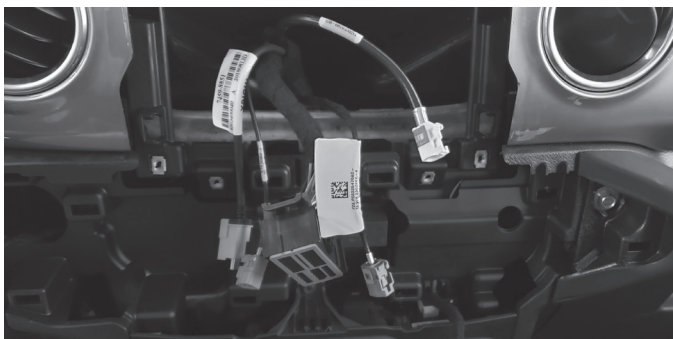
9 Use #2 Phillips Screwdriver to extract (4) screws from head unit. Disconnect and remove the radio.



10 Disconnect the harnesses behind the OEM head unit.



11 The disconnected harnesses from the previous step. These will be used later to connect to the main harness in the installation.



12 Open the glove compartment and remove all contents, push up the glove compartment travel stop and lower the door, pivot the glove compartment downward, release latch on left side of the glove compartment by pushing it upward, pull the glove compartment upward to remove it from the pivot.

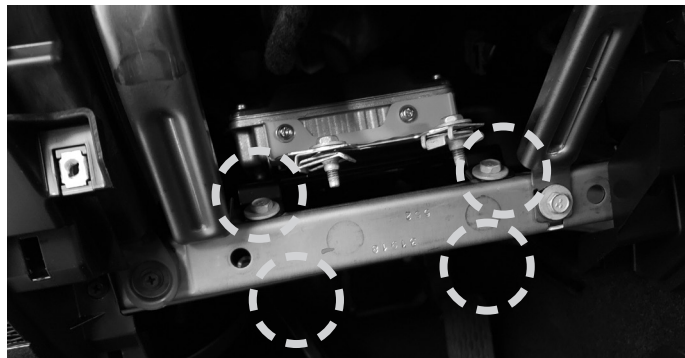


Factory Unit Disassembly Process (Continued)

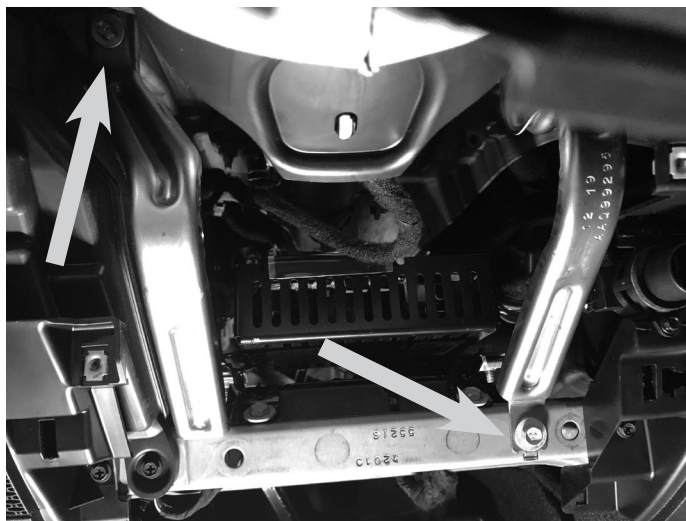
13 For vehicles with the power inverter remove the ventilation duct behind the drivers side knee panel using a panel removal tool to release the one clip holding it in place. Once the installation of the i509-WRA-JL tuner is completed the vent can go back in place.



14 For vehicles with heated seats or the power inverter the bracket for the module needs to be removed. Remove the (4) 10mm screws to remove the bracket. Then remove the (2) 8mm screws lower and the (2) 10mm screws top to remove the module.



15 Remove the two knee panel brackets. Each bracket is held in by (1) 10mm screw.



16 Remove the A pillar by removing the (2) 8mm screws and unclipping the panel. The screws can be exposed using a panel removal tool.



Factory Unit Disassembly Process (Continued)

17 Loosen the clips around the top panel visor area.



18 Remove panel above drivers door going to the B pillar.



19 Unclip 7 clips and remove the center media stack.



Installation Instructions

- 1 Run the GPS antenna Bluetooth microphone cables up the A pillar along the OEM wiring. Route as shown on the diagram on page 17.



- 2 Mount the microphone next to the rear view mirror and run the cable behind the factory panels. Route as shown on the diagram on page 17.



- 3 Mount GPS antenna near driver side B-pillar as illustrated on page 17 and run the cable to the knee panel.



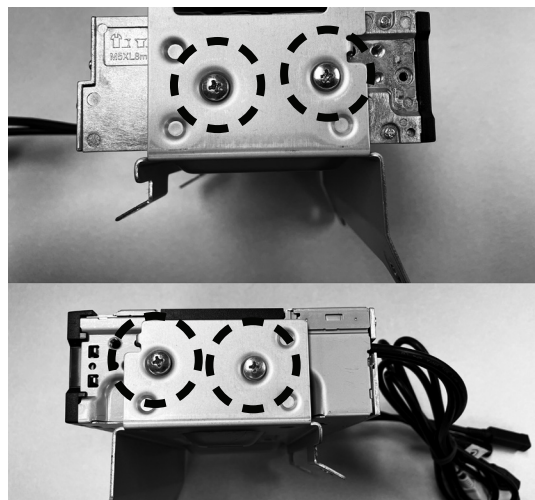
- 4 Route radio cables including Radio Main, Sirius XM, FM, and Aux in main harness and also the display cable from radio cavity to knee panel.



- 5 Route vehicle cable in main harness from radio cavity to glove box and connect it to OBDII gateway behind the glove box. If the gateway is fully occupied, unclip 1 connector from it and use T-harness.



- 6 Attach tuner bracket to tuner using (4) M5X8LMM supplied screws.

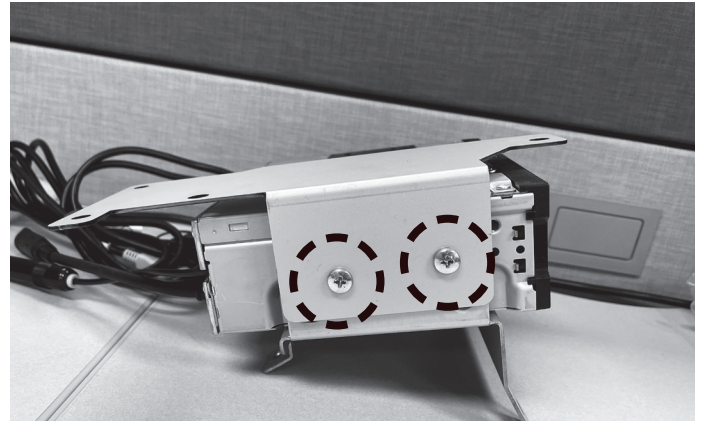


Installation Instructions (Continued)

- 7 If you are using the optional SiriusXM tuner, Cable tie the module on top of the source unit.

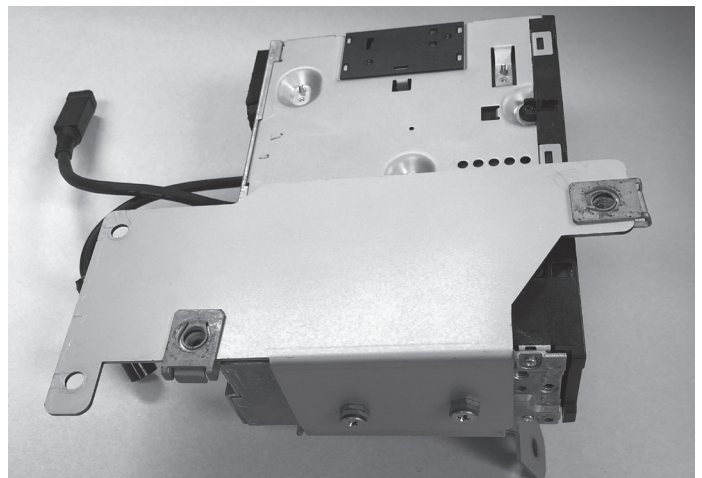
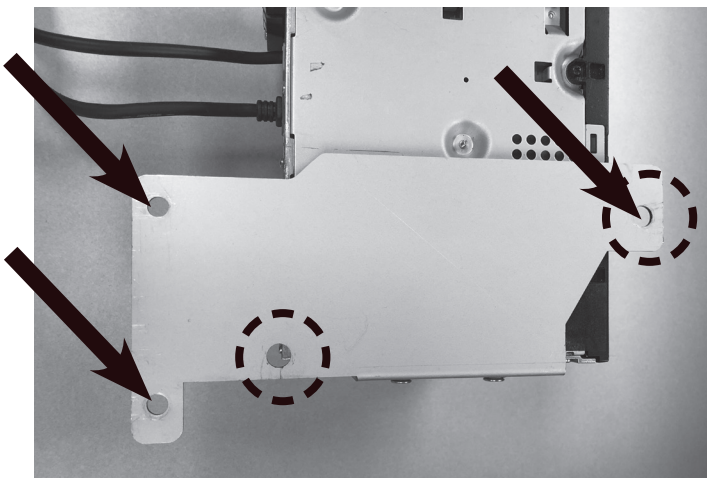


- 8 For vehicles with heated seats or the power inverter attach the Power Inverter bracket using the supplied (2) M5X10LMM screws and lock washers. This will mean you will not use two of the M5X8LMM screws from the previous page. These two screws are slightly longer and can make it through both brackets.



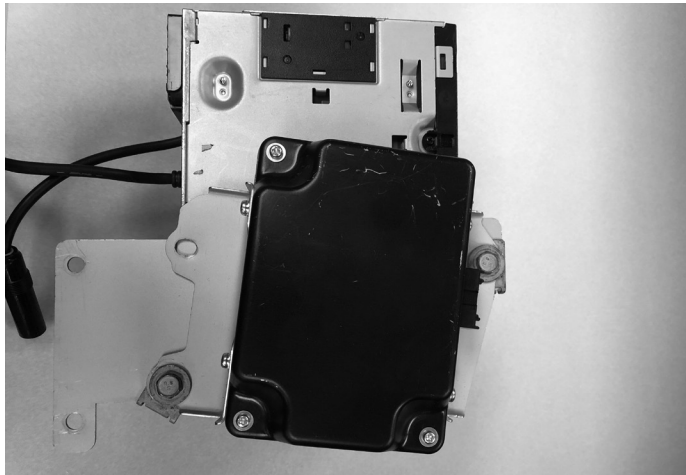
- 9 Use the factory speed clips from the bracket that was removed from the vehicle and attach them to the Power Inverter bracket. For the Wrangler JL use the 2 holes circled in black. For the Gladiator JT use the 3 holes pointed out by the arrows.

- 10 After attaching the factory speed clips this is what the bracket will look like for the Wrangler JL.



Installation Instructions (Continued)

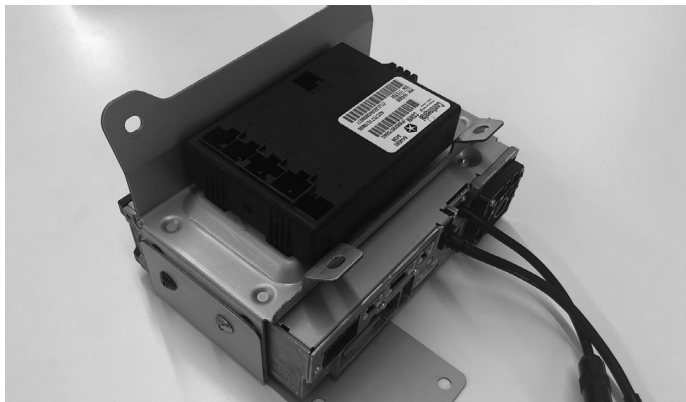
11 Attach the factory Power module to the bracket using the OEM screws. This is what the power module will look like for the Wrangler JL.



12 Attach the factory Power module to the bracket using the OEM screws. This is what the power module will look like for the Gladiator JT.



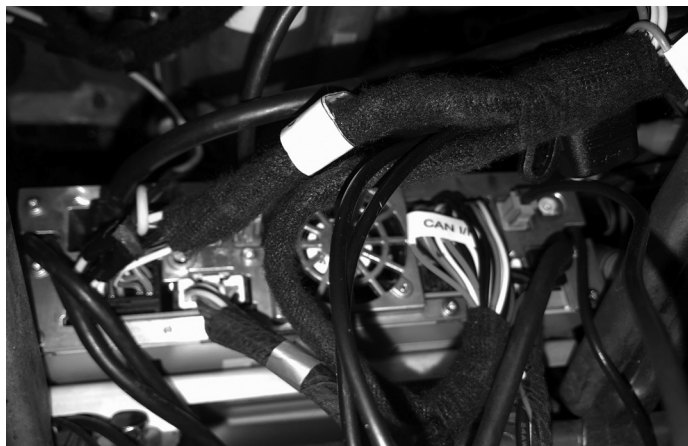
13 If the vehicle has the heated seat module clip that into the bottom bracket. The OEM clips on the module will snap into the bracket.



14 Use (4) OEM bolts to secure the i509 source unit tuner bracket to the vehicle. If the vehicle is equipped with the power inverter it will mount behind the 2nd cross bar.

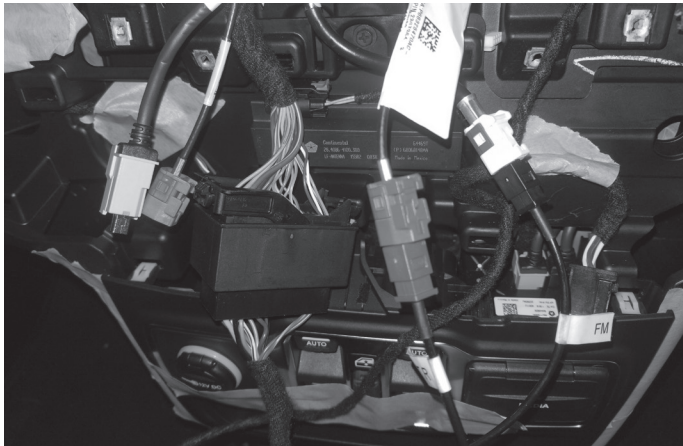


15 At the knee panel, connect the main harness, display harness, GPS antenna, microphone, USB cable, HDMI, FM adapter, and other adapters to i509 source unit and secure them.

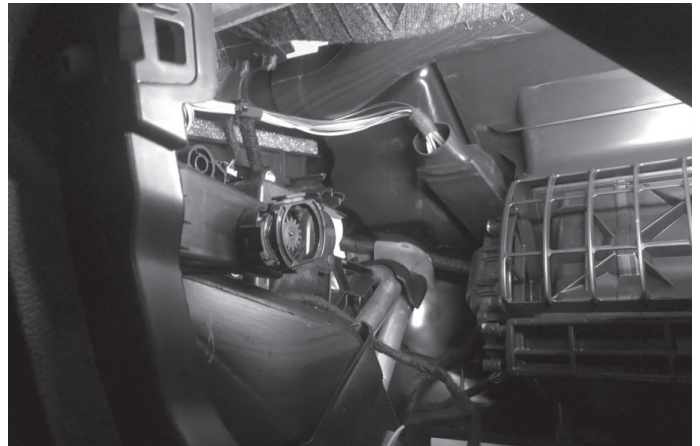


Installation Instructions (Continued)

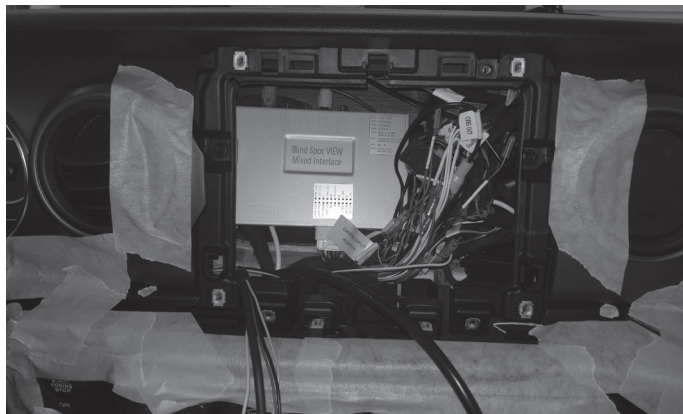
- 16** At radio cavity, connect the main harness, white FM adapter, and green SiriusXM antenna, and other adapters to factory harness and secure them.



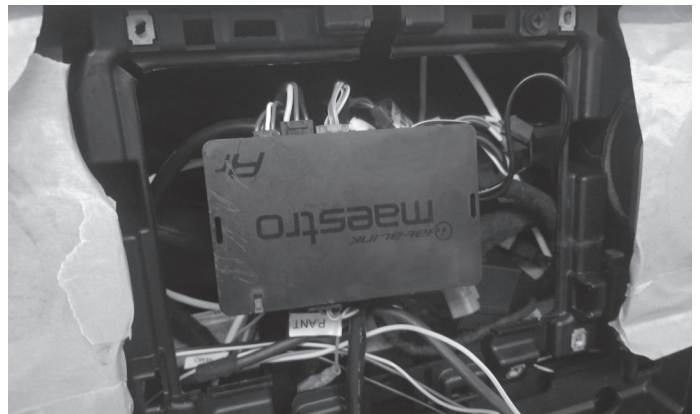
- 17** If the vehicle has an OEM amplifier the KCX-F200INT will need to be purchased separately. This has 30" of cable so it can be routed behind the glovebox. It is important to do this so it can dissipate heat properly. The audio settings will also need to be set to flat as shown on page 29.



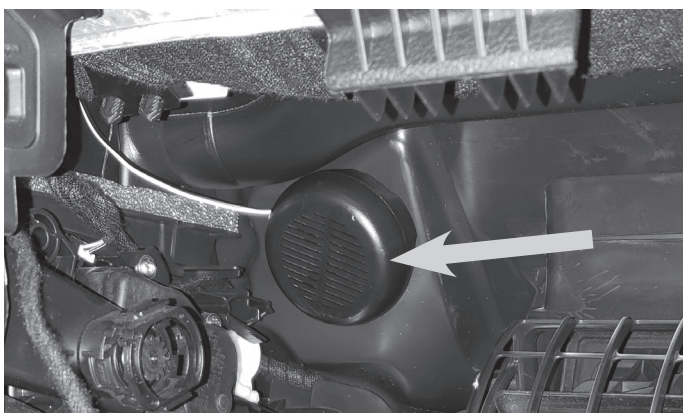
- 18** Connect the camera interface module to the violet or red factory camera plug and put it in right side of radio cavity. Dip switch 1 will need to be moved down for the Gladiator JT.



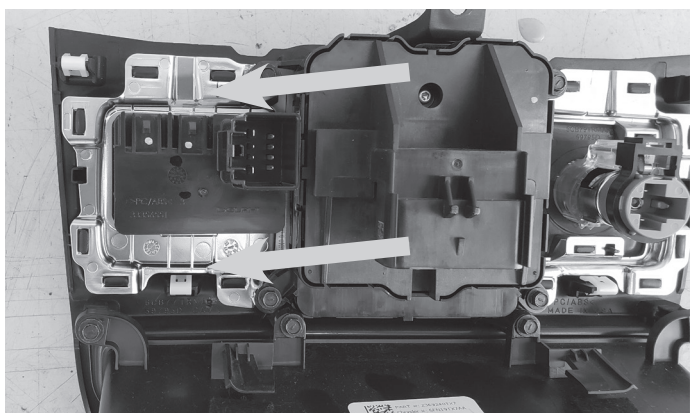
- 19** Attach the Maestro to the main harness and tuck it in left side of radio cavity.



- 20** Run chime speaker harness from Maestro module to behind the glove box and attach there.



- 21** Remove the OEM USB from the Center Media panel by unclipping the clips on the sides.



Installation Instructions (Continued)

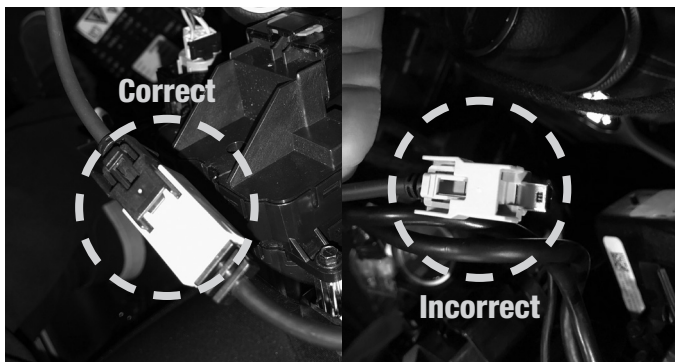
- 22** Insert the i509 USB HDMI box into the OEM Center Media panel. Connect the HDMI and the two USB cables to the source unit as shown on page 19.



- 23** Plug in the OEM USB and the USB from the box to the power adapter. The adaptor needs to be plugged into the BLACK micro usb.



- 24** **WARNING:** There are 2 factory micro USB plugs in the dash behind the media center. One is black and one is grey. If the supplied adaptor is plugged into the grey micro USB the factory USB's will not charge. When it is plugged into the black plug all rear USB's can be used for charging (not data).



- 25** Apply Anti-Vibration Foam to the top of the display. Attach the display unit to the display bracket using the (4) M5X8LMM supplied screws.



- 26** Attach the display and bracket to the vehicle using the OEM screws from the OEM radio.

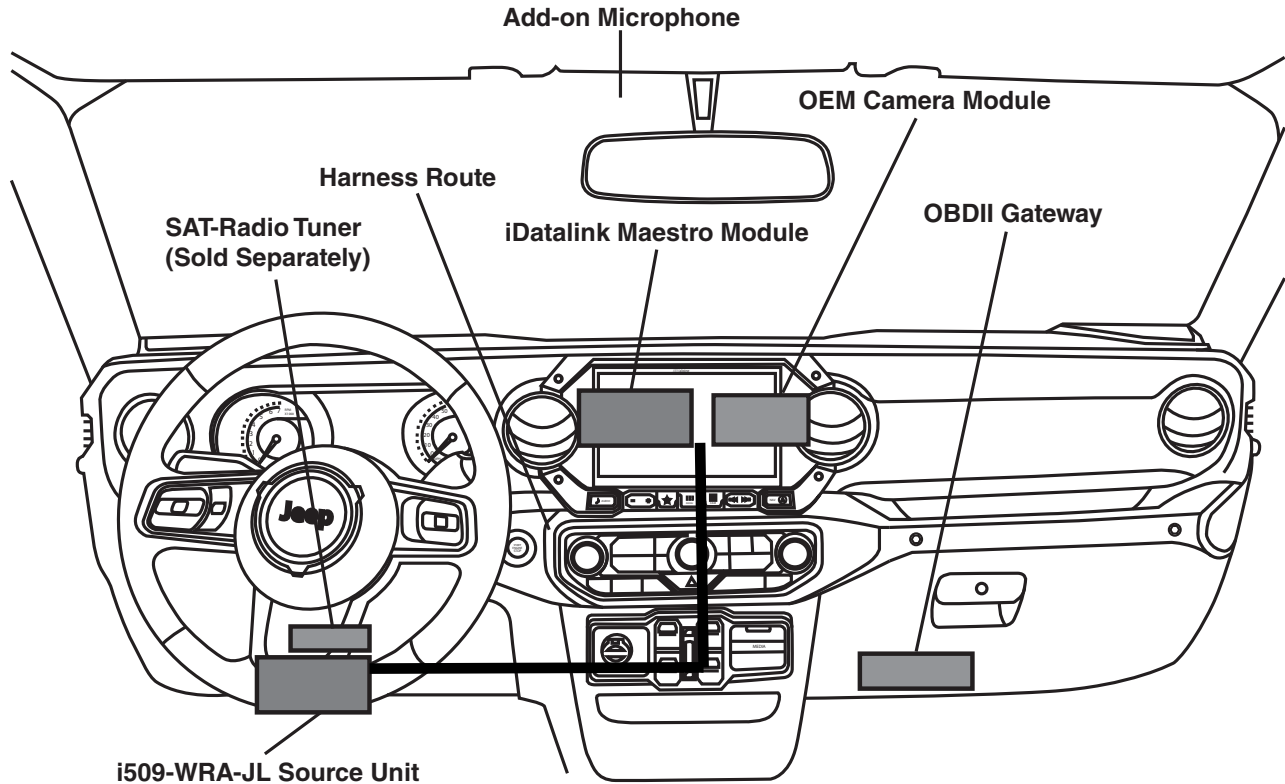


- 27** Plug in the bezel and and reinstall all the factory panels.



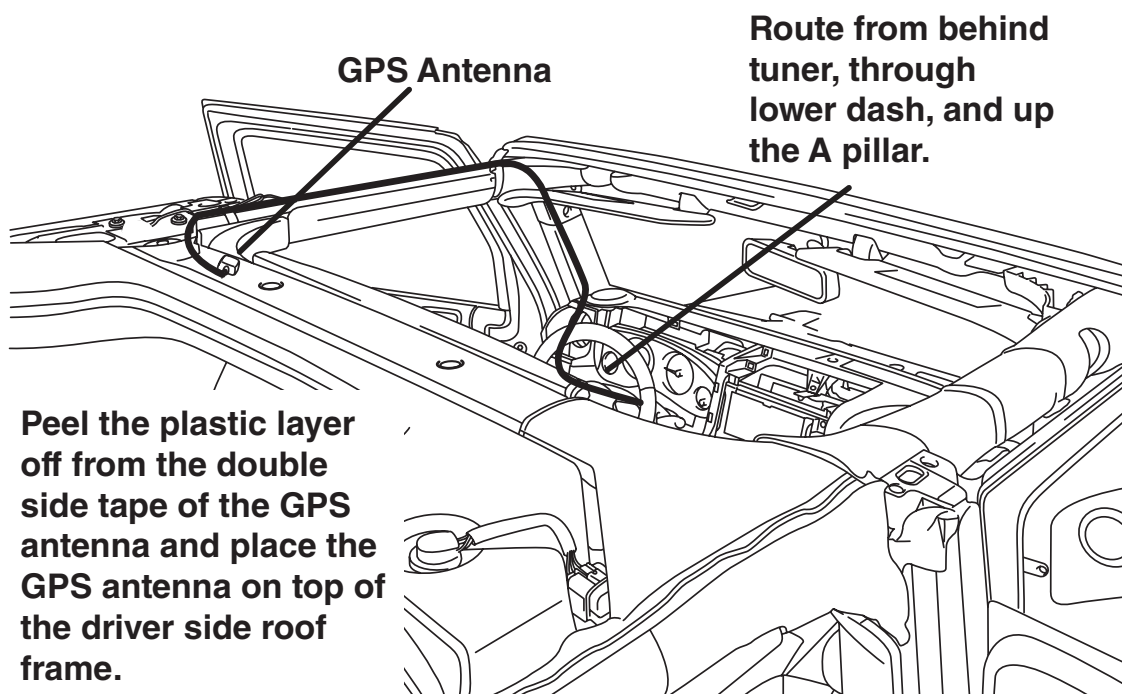
Component Locations

! IMPORTANT: Follow the recommended component location shown below. Failure to do so, will result in poor GPS performance.

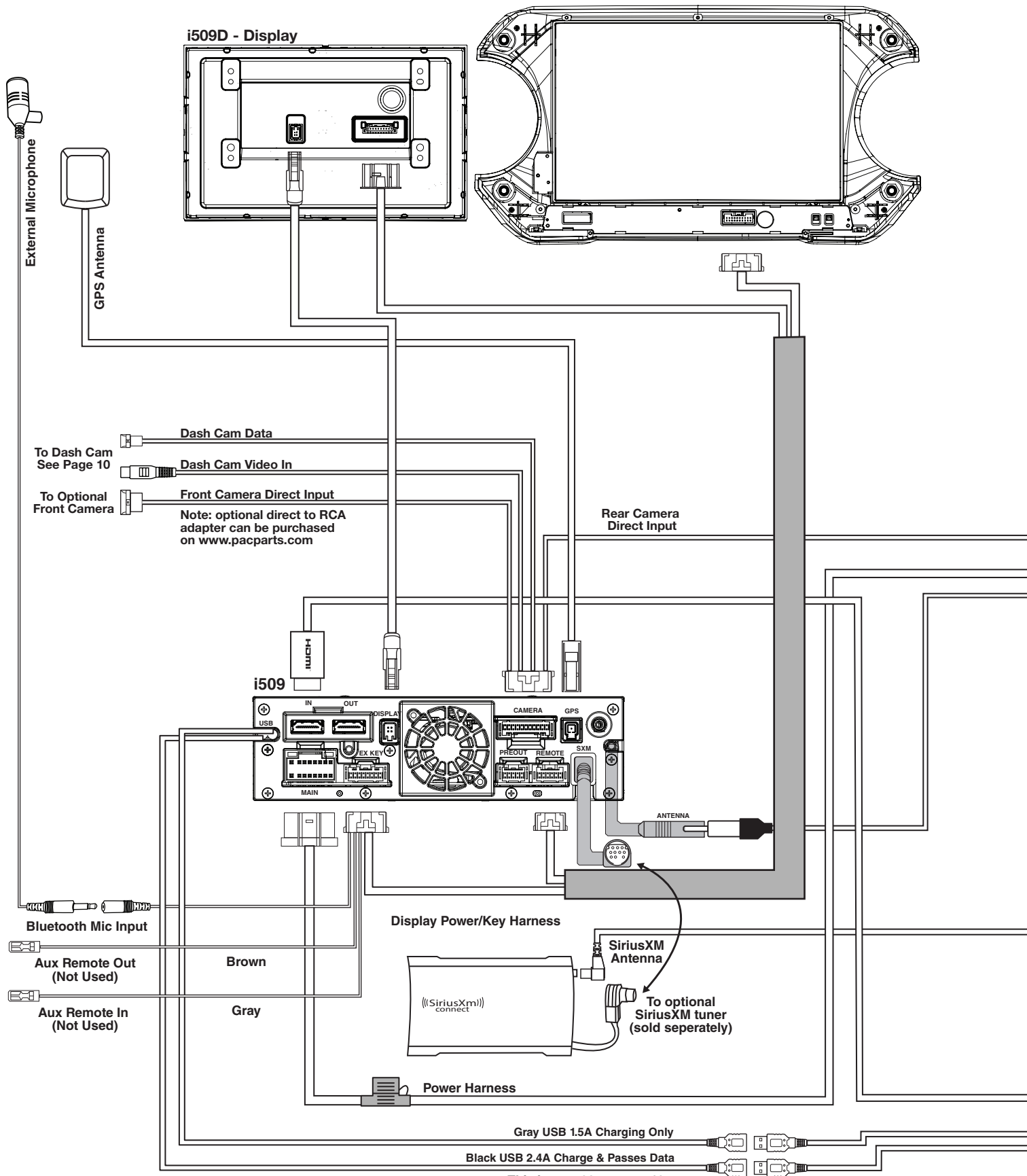


GPS Antenna Installation

! IMPORTANT: Follow the GPS antenna installation procedure shown below. Failure to do so will result in poor GPS performance for CarPlay, Android Auto, and off-road navigation.



i509-WRA-JL Wiring Diagram

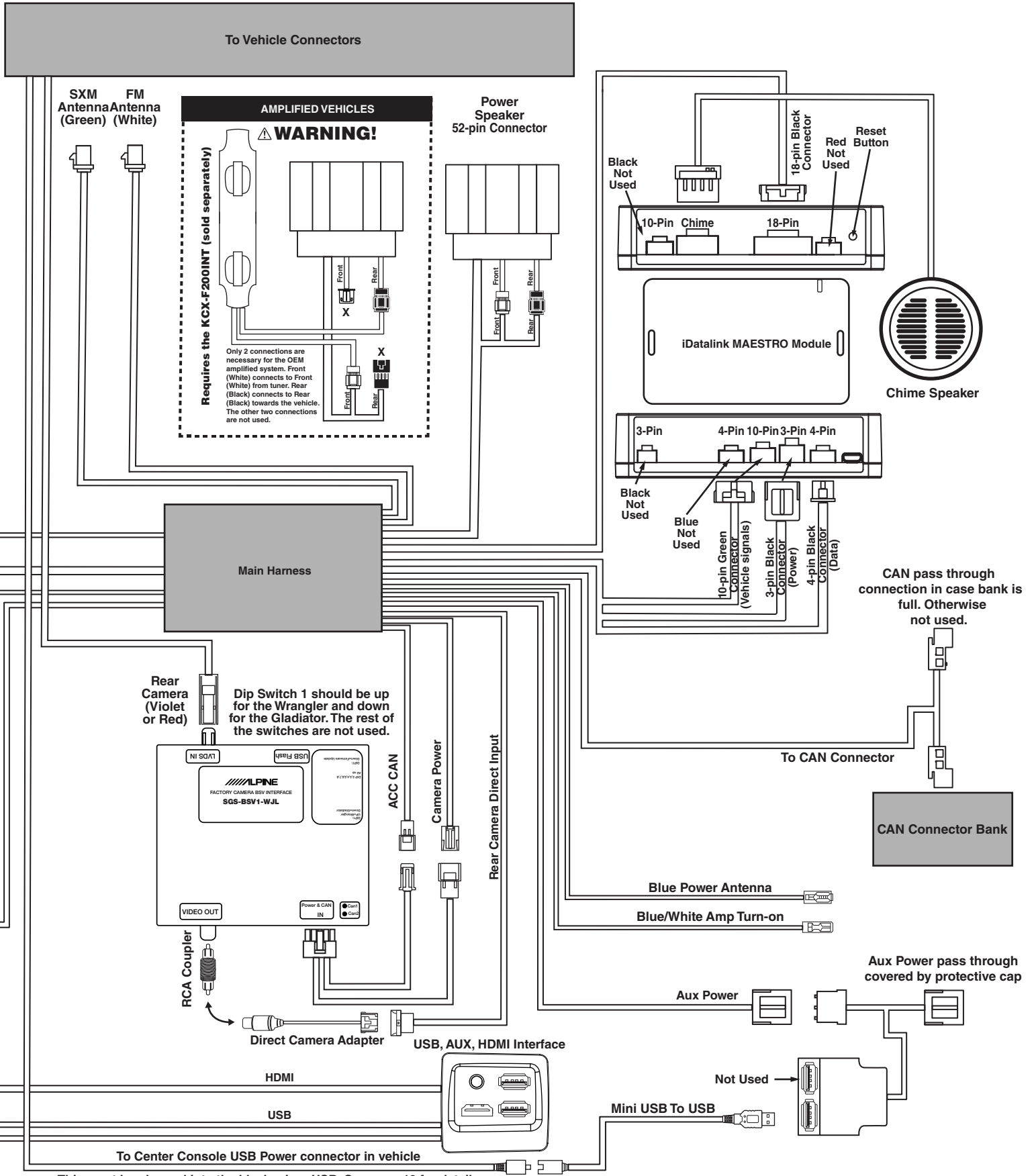


Gray USB 1.5A Charging Only

Black USB 2.4A Charge & Passes Data

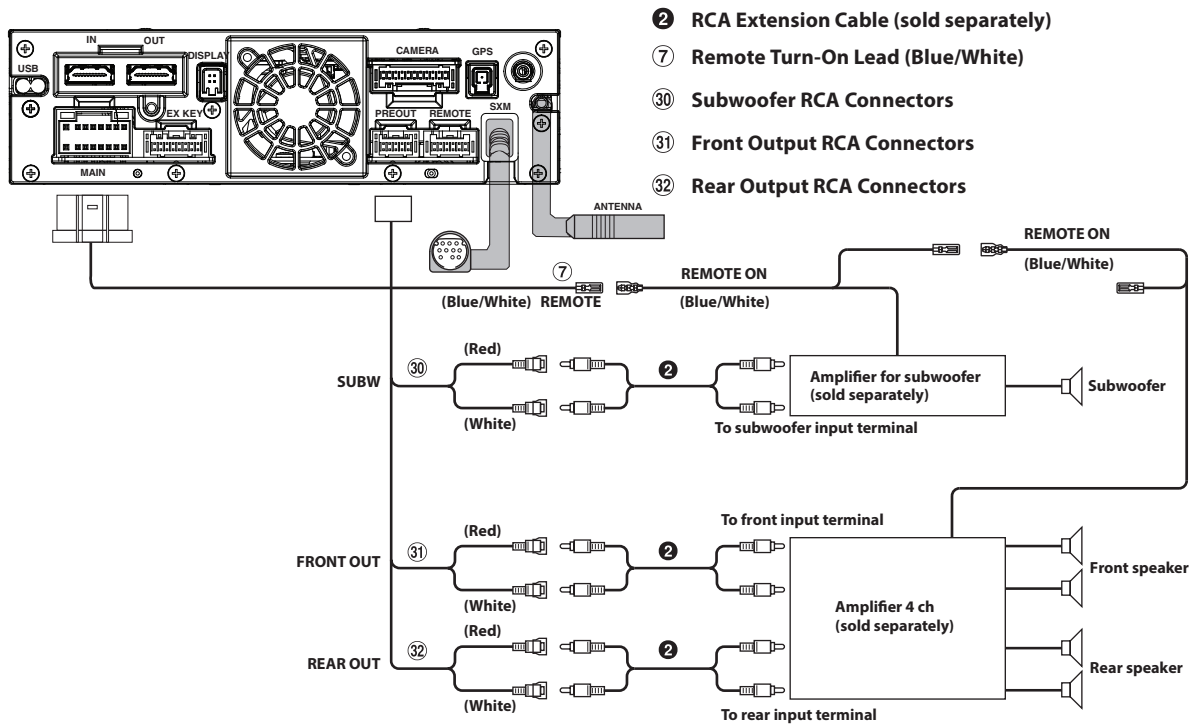
This is step 23 on page 16

i509-WRA-JL Wiring Diagram Continued



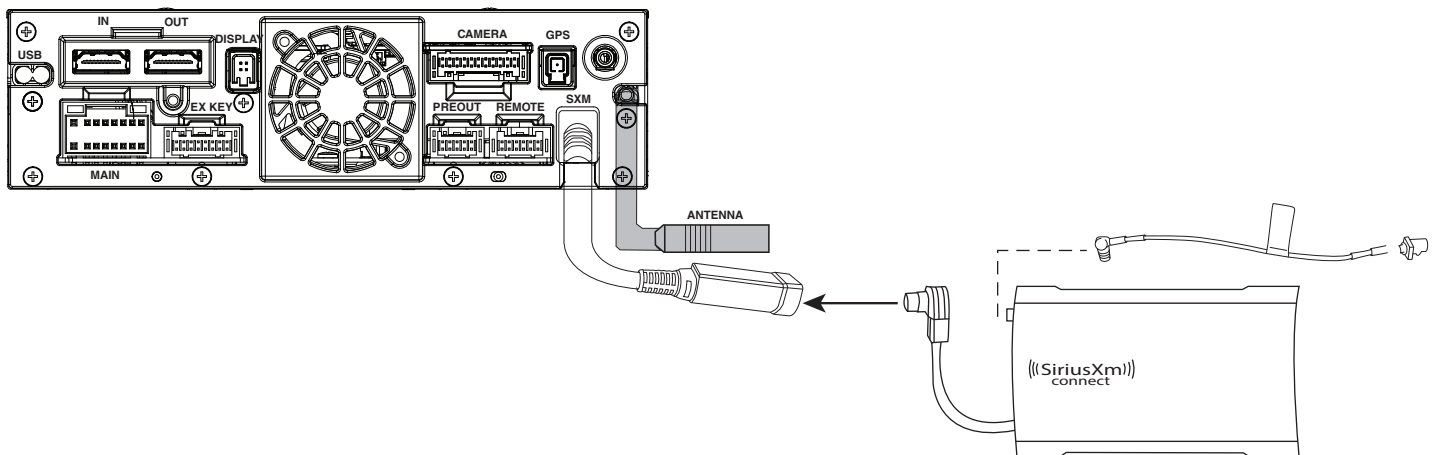
This must be plugged into the black micro USB. See page 16 for details

Connection Of An External Amplifier

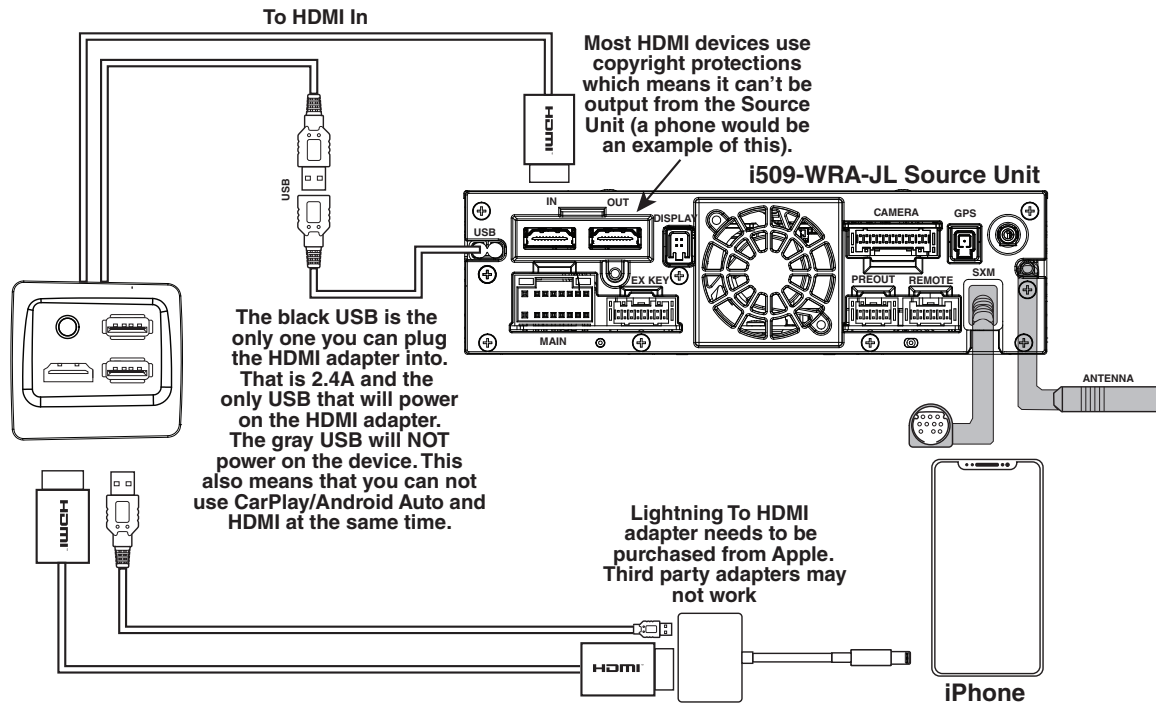


Connecting A SiriusXM Module (Sold Separately)

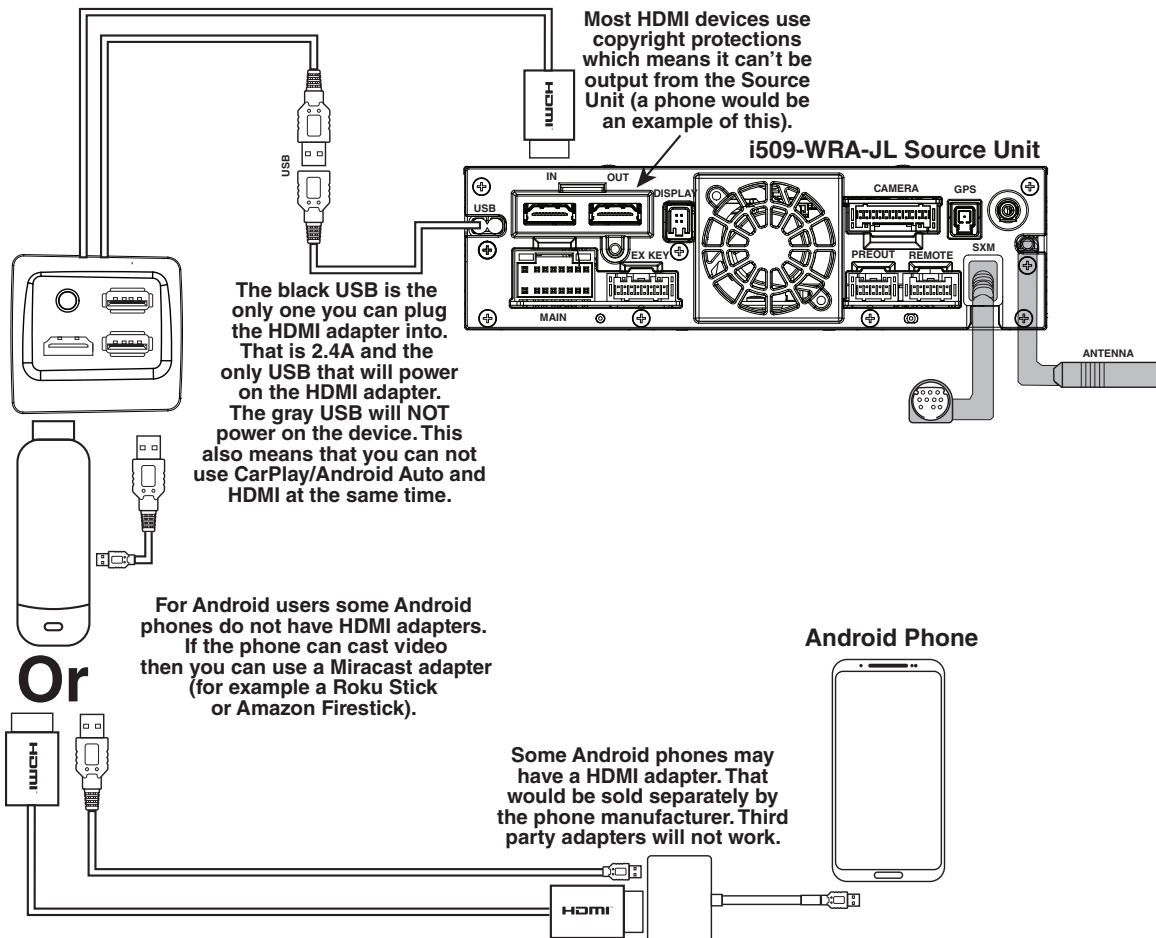
There is no way to integrate the factory SiriusXM tuner. Once the radio is removed, the factory SiriusXM is removed. As the title states, SiriusXM requires a tuner sold separately. This diagram shows how to integrate the antenna connection. For vehicles with factory SiriusXM connect the adapter to the factory SiriusXM antenna in the radio cavity. The factory SiriusXM antenna is located on the passenger side B-pillar. For vehicles without factory SiriusXM use the antenna that is included with the SXV300 SiriusXM Tuner.



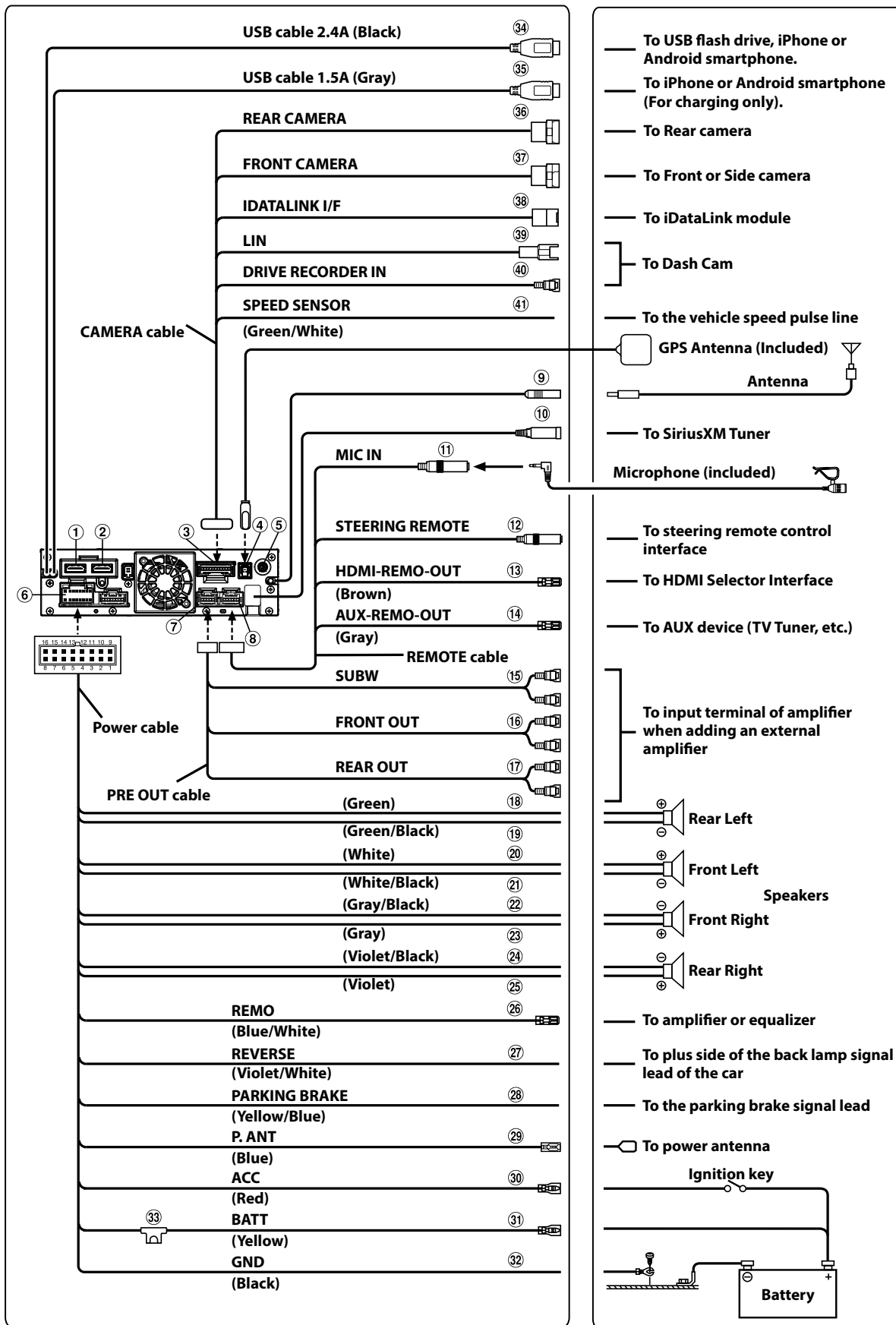
HDMI Input (iPhone)



HDMI Input (Android)



i509-WRA-JL Wiring Diagram

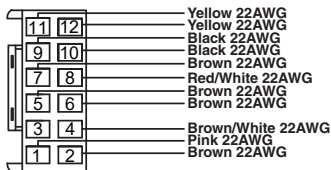


Wire Harness Pin Outs

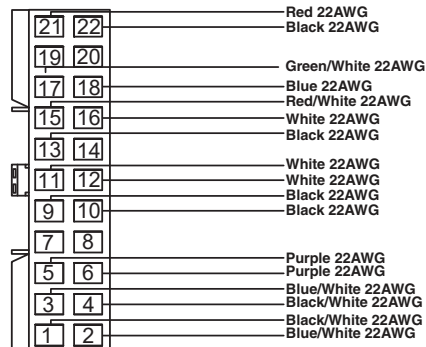
Radio Main



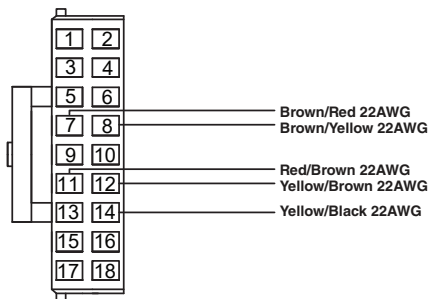
Remote Harness



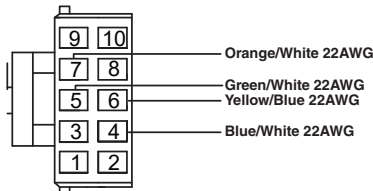
Cam Aux Data



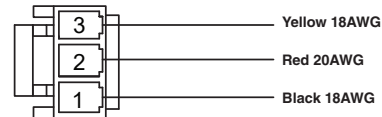
Data SWC



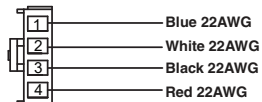
Radio I/O



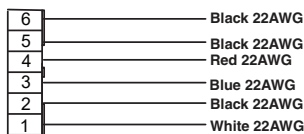
Aux Power



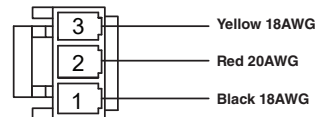
iDataLink



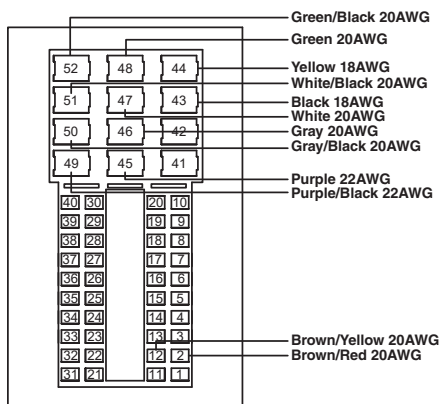
Front Camera



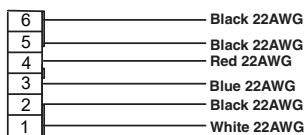
Maestro Power



Wrangler Radio



Rear Camera



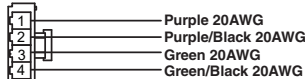
CAN Connector



CAN Connector



Speaker Harness



Speaker Harness



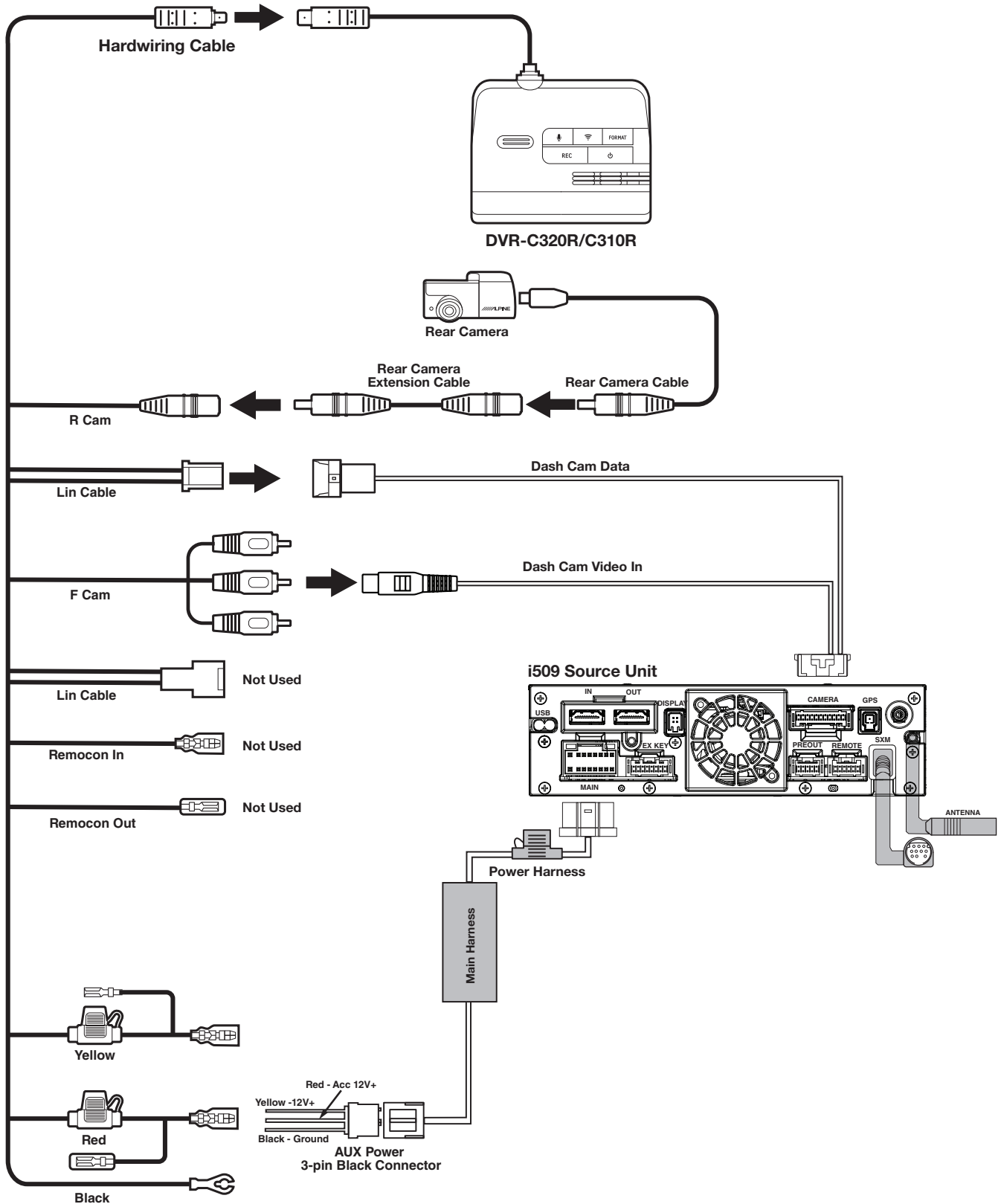
Camera Power



CAN

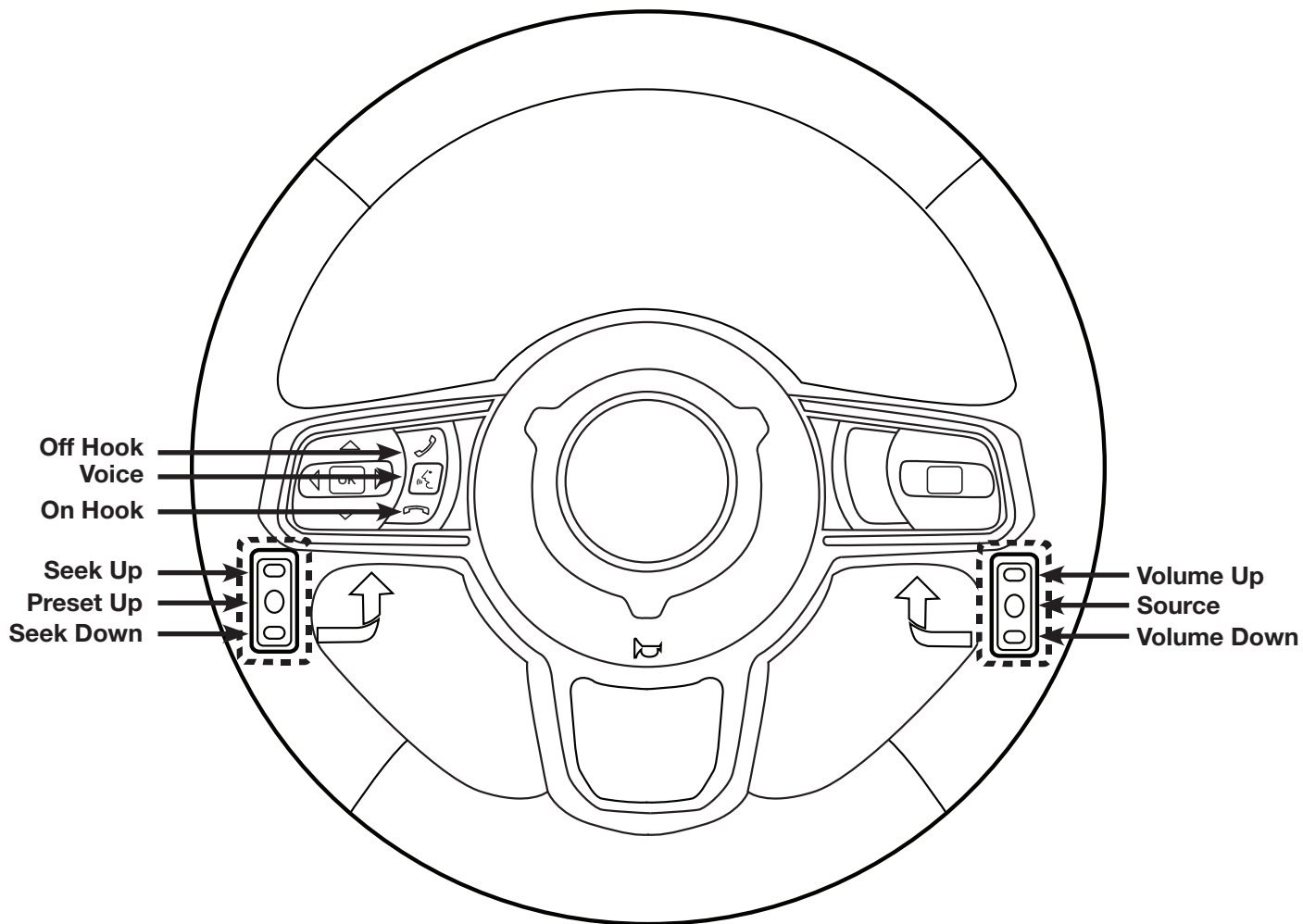


Connection Of DVR-C320R/C310R (Sold Separately)



Cut the terminals.
 Solder and heat shrink
 to AUX Power Connector.

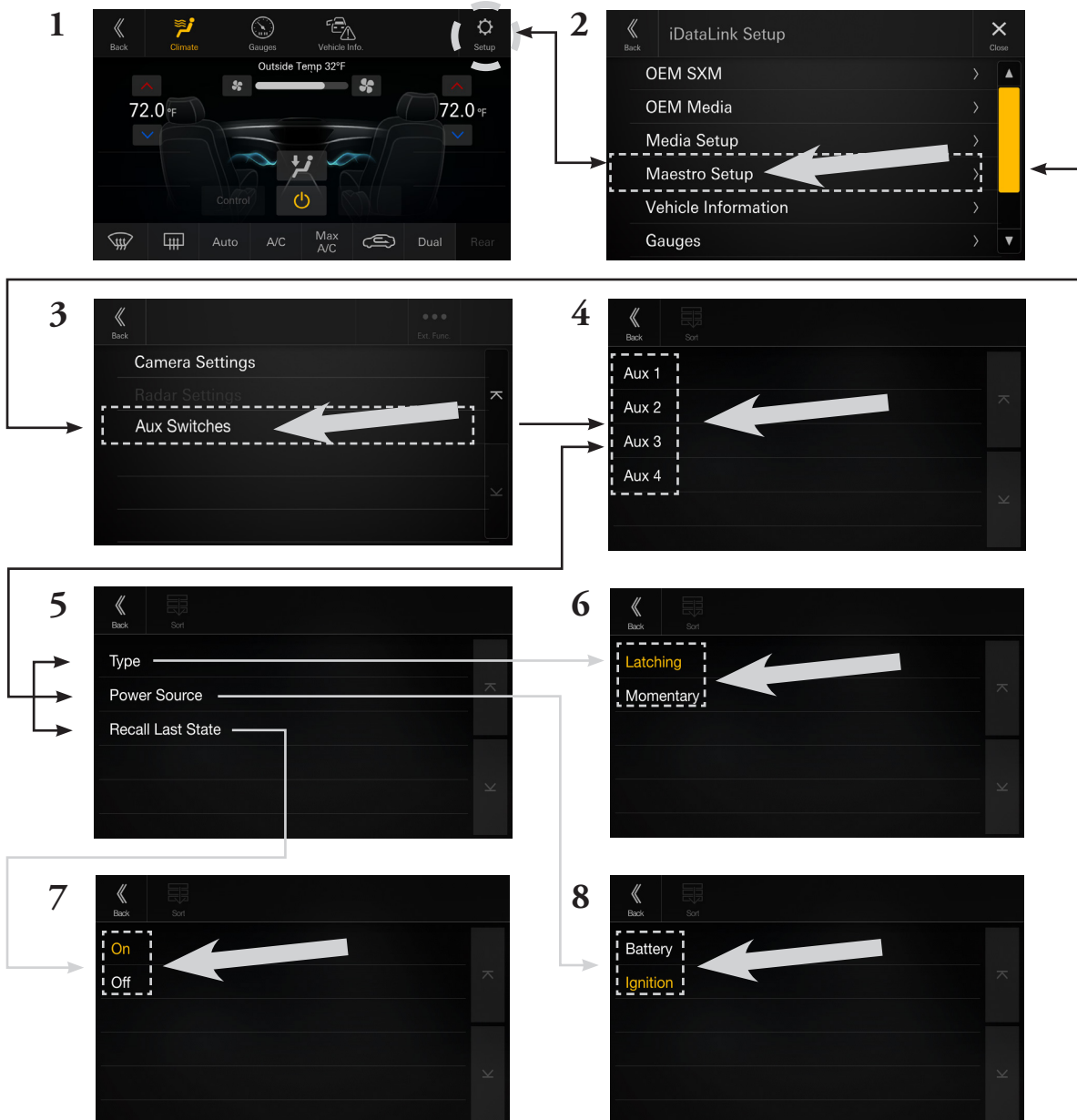
Steering Wheel Configuration



Button	Press Once	Press And Hold
Seek Up	Track +	None
Seek Down	Track -	None
Next Preset	Preset & Folder +	Preset & Folder -
Voice	Voice Or Siri	None
Off Hook	Answer Call	None
On Hook	Hang Up & Reject Call	None
Volume Up	Volume +	None
Volume Down	Volume -	Attenuation On/Off
Source	Source/Camera View	None

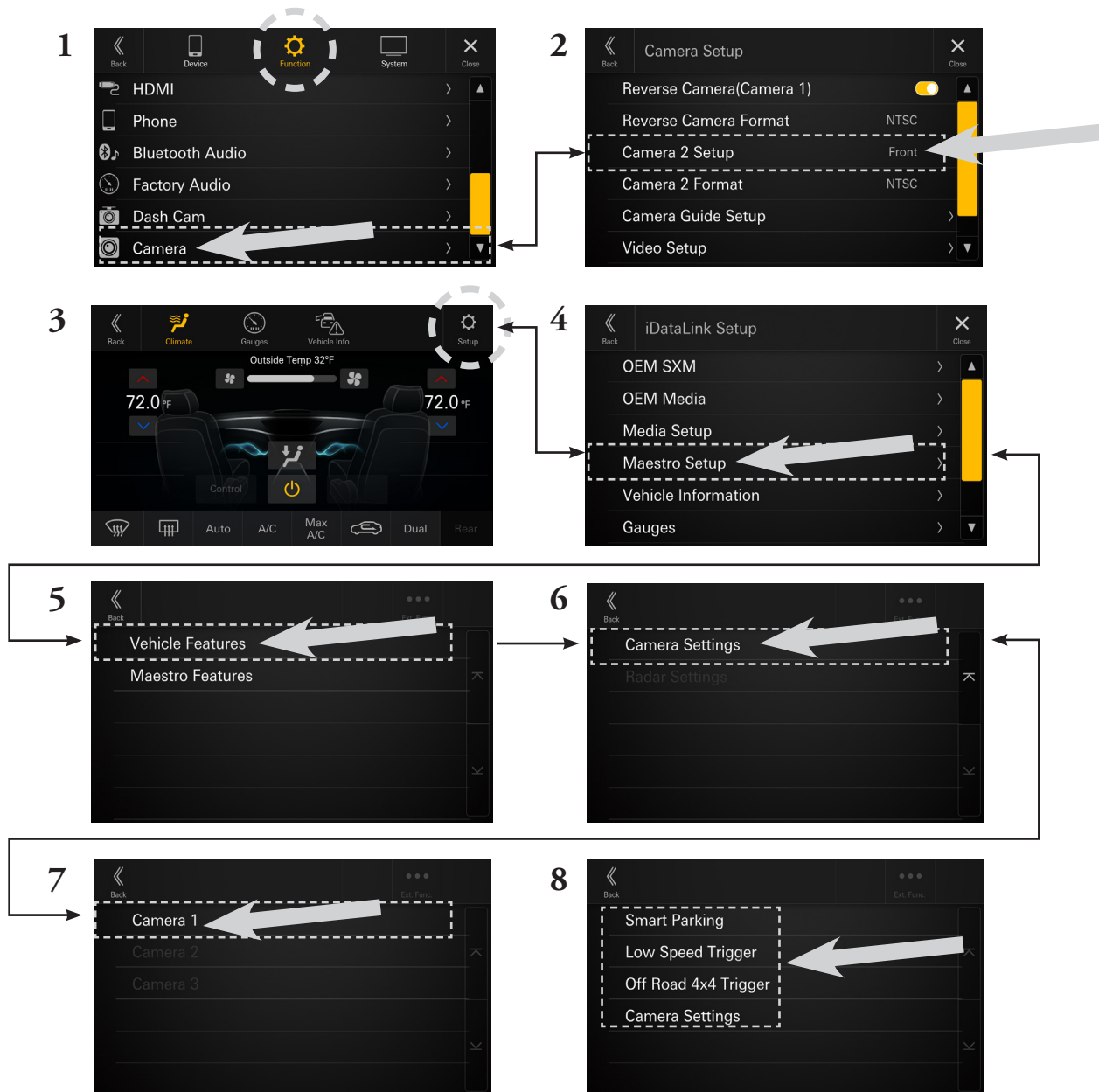
Setting Up OEM Aux Switches

- 1 Once in the setup menu (see page 28) go to the Maestro screen and select SETUP.
- 2 Select MAESTRO SETUP then VEHICLE FEATURES (not pictured). (Note this path in the settings can vary slightly with different Maestro firmwares).
- 3 Select AUX SWITCHES.
- 4 Select the switch that you would like to edit (AUX 1, AUX 2, AUX 3, or AUX 4).
- 5 Select the setting you would like to edit (TYPE, POWER SOURCE, or RECALL LAST STATE).
- 6 TYPE can be set for either LATCHING or MOMENTARY. LATCHING means that when the switch is selected it will stay on until the switch is pressed again. MOMENTARY will only keep the switch on as long as the button is held in.
- 7 RECALL LAST STATE when set to ON the state of the switch is retained across ignition cycles.
- 8 POWER SOURCE menu can be set for either BATTERY or IGNITION. BATTERY means the switch has power to it at all times. IGNITION means it has power only when the vehicle is on.



Setting Up Advanced Camera Features

- 1 Once in the setup menu (see page 28) select FUNCTION and then CAMERA.
- 2 Select CAMERA 2 SETUP. The camera 2 input needs to be set to FRONT or SIDE. This will let the Maestro module know the second camera is active and that will enable the CAMERA SETTINGS in the Maestro Setup Menu.
- 3 In the Maestro screen select SETUP.
- 4 Select MAESTRO SETUP. (Note this path in the settings can vary slightly with different Maestro firmwares).
- 5 Select VEHICLE FEATURES.
- 6 Select CAMERA SETTINGS.
- 7 Select Camera Assignment then CAMERA 1. The available options are FRONT CAMERA, RIGHT LANE WATCH CAMERA, and LEFT LANE WATCH CAMERA.
- 8 Once CAMERA 1 is set the corresponding camera settings will then be available.



Set Up Guide

- 1 Turn the vehicle's Ignition switch to ACC.
- 2 Turn ON the i509-WRA-JL by pressing any key.
- 3 Select the user language and press OK.
- 4 **To get into the settings the parking brake sequence needs to be done.** Engage the parking brake, release the parking brake, and engage the parking brake again.
- 5 Vehicle information- Set the desired gauge information. (HOME/VEHICLE INFO/SETUP).
- 6 To turn on rear camera in the system menu. (HOME/FUNCTION/CAMERA/REVERSE CAMERA).
- 7 If the vehicle is equipped with the factory accessory switches set those up. See page 27 for details. (MENU/FACTORY SYSTEM SETUP/MAESTRO MODULE/VEHICLE FEATURES/AUX SWITCHES).
- 8 For vehicles with an OEM amplifier the Time Correction, P-EQ, and X-Over must be set flat. (HOME/UPPER CENTRAL BUTTON ON SCREEN).

Troubleshooting Guide

Symptom	Possible Cause	Remedy
1 iPhone not working with HDMI.	Not using Apple HDMI to Lightning adapter.	Purchase the HDMI to Lightning adapter directly from Apple. Not all 3rd party adapters work the same.
	Didn't plug USB power into a 2A source.	A 2A USB power source must be used to power on the device.
2 Android phone is not working with HDMI.	Using incorrect HDMI adapter.	If the phone has the feature to use an HDMI adapter it must be the one purchased from the manufacturer of the phone, not a third party adapter.
	Miracast or HDMI adapter isn't plugged into a 2A source.	A 2A USB power source must be used to power on the device.
	Miracast adapter has resolution settings that are too high.	Plug the adapter into another monitor (for example a television in the home) and reduce the resolution settings.
3 iDatalink website says serial number is invalid.	Incorrect serial number is being used.	In the i509-WRA-JL settings confirm the serial number. MENU/SETUP/GENERAL/ABOUT.
	Serial number may not be in iDatalink database.	Call ADS at 1-866-427-2999 and verify.
4 Headunit will not turn on.	Incorrect serial number was used when flashing maestro.	Flash Maestro with correct serial number.
	4 pin Maestro data cable is disconnected or damaged.	Check for proper connection or disconnected pins.
	OBD2 cable is not plugged in.	Connect OBD2 connector to the OBD2 port.
	Monitor, key-harness or main harness are not connected.	Check for proper connection or disconnected pins.

Troubleshooting Guide Continued

Symptom		Possible Cause	Remedy
5	No output from RCA's	Maestro module is flashed for amplified system.	Re-flash module for non-amplified system.
6	Cannot enter SETTINGS MENU.	Vehicle is in motion or parking brake is not engaged.	With vehicle in (P)PARK engage the parking brake. Release the parking brake and engage the parking brake a second time, as shown in the Setup Guide on page 28.
7	Sound mutes when vehicle is shifted into reverse.	Mute on reverse is turned on in the SOUND menu.	Change Mute on reverse to off.
8	Only the front speakers are on for SXM Radio.	SXM Tuner has not been activated.	Activate SXM Tuner.
9	The vehicle is incorrectly positioned on the Navigation display.	Poor GPS signal.	Ensure the recommended GPS antenna route was used. See page 17.
10	CarPlay, Android Auto, or off-road navigation map positioning issues.	GPS antenna is positioned incorrectly.	GPS antenna is obstructed and doesn't have line of sight to the sky. Perform a factory reset. The unit will automatically recalibrate.
11	CarPlay, Android Auto, or off-road navigation vehicle position icon heading in wrong direction	Reverse Signal is not connected or not reliable.	Ensure that Reverse wire is connected. Also ensure that no 3rd party interface module(s) interfere with the Reverse Signal. The head unit uses the Reverse Signal to achieve optimal positioning performance.
12	iPhone or Android phone is not recognized when connected to the USB cable.	Loose or disconnected USB cable.	Check the USB connection behind the headunit.
		Non-compatible cable.	Use the cable supplied with the iPhone or Android phone. Third party adapters and long extensions may not work. Only use USB extension that came with the head unit.
		Dirty charging port on phone.	Clean charging port.
		Wrong USB port used.	The OEM USB's are only meant for charging. They can't transfer data. The only one that can is the bottom port of the USB, AUX, HDMI interface that is included.
13	Volume controls on bezel and steering wheel controls do not work.	The setting for External Processor was turned on.	That setting should only be checked when using an external sound processor. When there isn't one being used in the audio system it needs to be in the default setting of off. MENU/SETUP/SYSTEM/EXTERNAL ACCESSORIES/EXTERNAL AUDIO PROCESSOR/OFF
14	OEM USB's not charging.	The wrong micro USB was plugged into the USB power adapter.	There are 2 factory micro USB plugs in the dash behind the media center. One is black and one is grey. If the supplied adaptor is plugged into the grey micro USB the factory USB's will not charge. Make sure the black USB is plugged into the power adapter. See pages 16 and 19 for details.