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Jeep Wrangler i207-WRA Restyle Installation Manual

Model: Wrangler

Model Year: 2007-2017



Jeep	Model	Year	
	Wrangler	2007-2017	

^{*} 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 wiring, 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 i207-WRA. This installation manual is designed to take you through the step-by-step installation of the i207-WRA into a 2007 and 2017 Jeep Wrangler. Please familiarize yourself with the owners 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

<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

F	Forbidden	Indicates actions that are forbidden (must not be performed)	Mandatory	Indicates actions that are mandatory (must be performed)
F	Forbidden	Indicates that disassembly is forbidden.	<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.



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.

Forbidden Mandatory

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 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.



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.



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.



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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.



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 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.

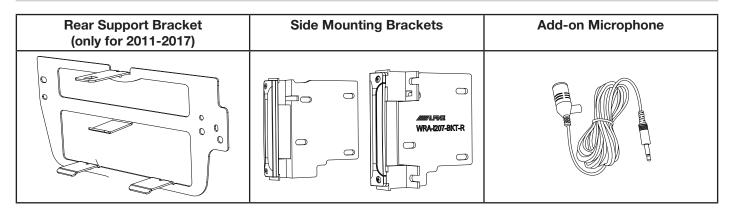


Tools Required

Panel Removing Tool	7mm Sockets	#2 Phillips Screwdriver
Wire Cutters	Extension	Ratchet
T20 Torx		

Accessory List

Installation Kit Parts



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Accessory List

Head Unit Box Parts (i207-WRA)

iLX-207 Head Unit	Round Head Screws (4pcs)	Flat Head Screws (4pcs Not Used)
AUX/Pre Out Harness	GPS Antenna & Wire Hooks	Documents
		OM QR Card Alpine Installation Registration Card Manual
Direct Camera Adapter	Source Unit HDMI Bracket	USB Extension Cable

iDatalink Maestro Box Parts (ALP-MRR4/ALP-HRN-WRA3)

Maestro Flashing Cable	FM/AM Antenna Adapter	iDatalink Maestro Module
		macstro Pr
Main Harness	SiriusXM Radio Antenna Adapter (only for vehicles with factory SiriusXM)	

Programming the iDatalink Maestro Module

1 INSTALL THE WEBLINK PLUG-IN

Go to:

idatalinkmaestro.com/plugin 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 a 9 character alphanumeric value which is found on the head units label, underneath the bar code.

Review the System Requirements before installing.



If the plugin is already installed, the caution, "The plugin is already installed" appears. Please skip to step 2.



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:

idatalinkmaestro.com/register 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

Go to:

idatalinkmaestro.com/login.

Enter your username and password, then click OK.



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

Proceed to the next page to complete installation.

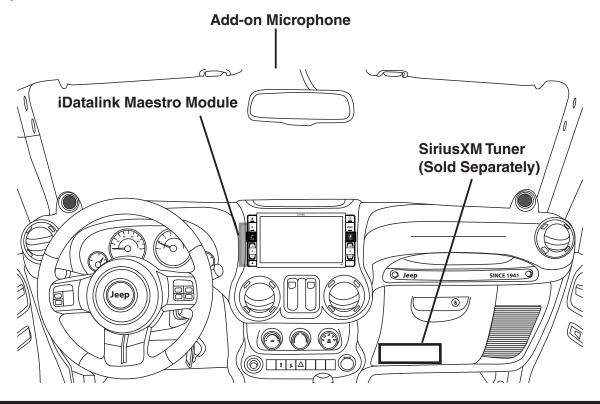


NOTE: If serial number is invalid, Call ADS at 1-866-427-2999 with the serial number.

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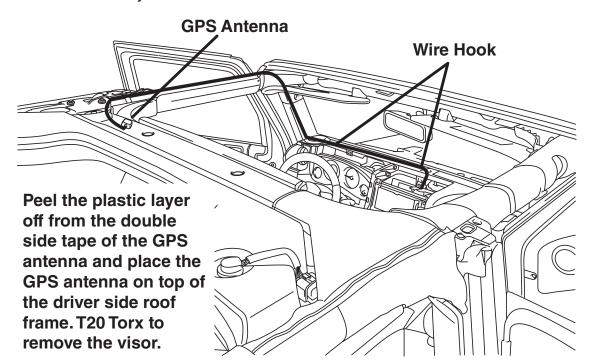
Component Locations

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



GPS Antenna Installation

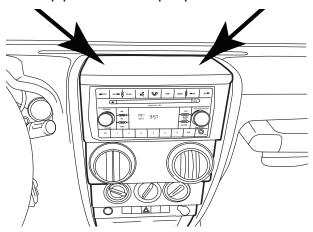
/N IMPORTANT: Follow the GPS antenna installation procedure shown below. Failure to do so will result in poor GPS performance for CarPlay and Android Auto.



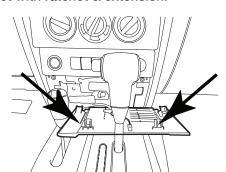
Factory Unit Disassembly Process (2007-2010 Only)

DISCONNECT THE BATTERY BEFORE CONTINUING. FAILURE TO DO SO WILL DISABLE MANY FEATURES.

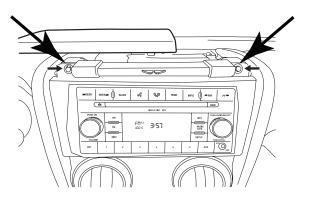
1 Remove top by releasing 2 rear clips on the back of the top panel and then pull panel forward.



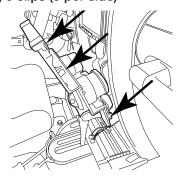
3 Release 2 clips on the top of the bottom panel. This will expose two 7mm screws. Remove using a 7mm socket with ratchet & extension.



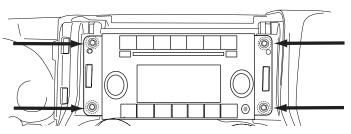
2 Release 2 clips on the top of the bottom panel. This will expose two 7mm screws. Remove those.



4 Use panel removal tool to remove dash panel by releasing 6 clips (3 per side)

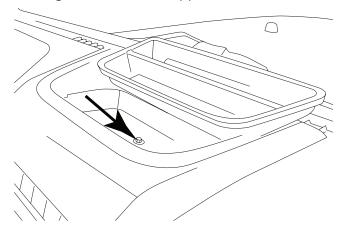


5 Extract (4) 7 mm screws and remove the factory radio.

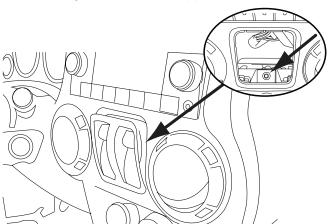


Factory Unit Disassembly Process (2011-2017 Only)

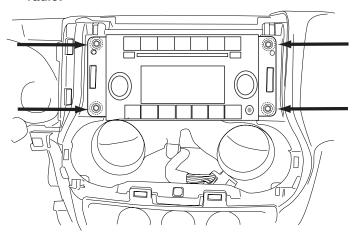
- DISCONNECT THE BATTERY BEFORE CONTINUING. FAILURE TO DO SO WILL DISABLE MANY FEATURES.
- 1 Remove the rubber cover from the top center storage area and extract (1) 7mm screw.



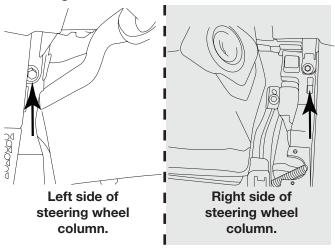
3 Remove the window switch pod using a panel removing tool and extract (1) 7mm screw.



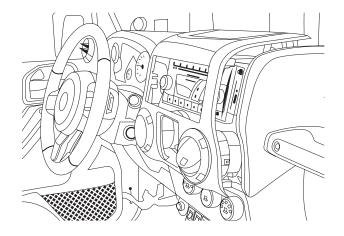
5 Extract (4) 7 mm screws and remove the factory radio.



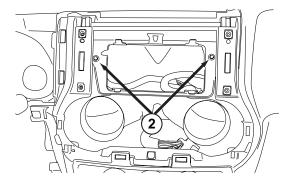
2 Remove the knee cover panel and extract (2) 7mm screws located to the right and left sides of the steering wheel column.



4 Remove the dash panel.

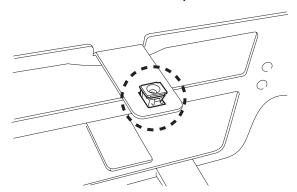


6 Extract (2) 7 mm screws from the factory radio bracket and remove it.

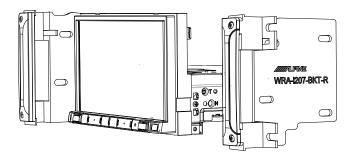


Installation Instructions

1 Attention: For 2011-2017 vehicles only. Insert the push clips from the factory bracket. Install the rear support bracket, using the (2) 7mm screws that were removed from the factory bracket, to attach head unit bracket in the same place.

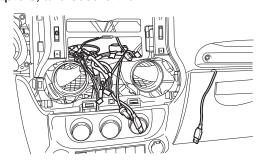


3 Attach the side brackets using the provided 8mm round head screws.

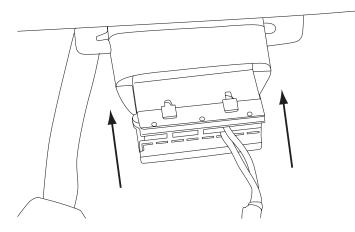


5 Run the USB extension cable to an area you want to plug in at (typically the glove box or center console areas), connect the main harness, antenna, and other adapters to the factory harnesses and secure them. Route all cables through the lower opening of the rear support bracket as shown below.

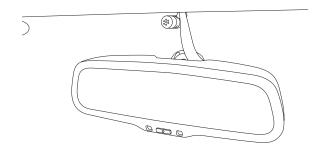
For 2007-2010 vehicles: Connect the main harness, run the USB extension from the back of the head unit to desired location, connect antenna, other adapters, and secure them.



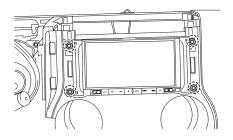
2 Plug the OBDII connector on to the OBDII port below the driver side dash and run the extension to the radio cavity.



4 Mount the microphone as illustrated and run the cable to the radio cavity. You will need to use a T20 Torx to remove the visor. For optimal performance it should be mounted by the rear-view mirror as illustrated.

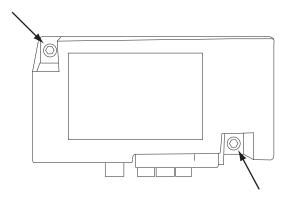


6 Mount the i207-WRA head unit using the factory 7mm screws and return factory panels to their corresponding place



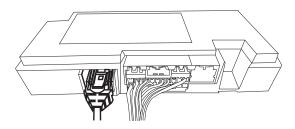
Disconnecting the Uconnect® (only for 2011-2017 vehicles with factory Uconnect®)

1 Remove the factory climate control panel. It is clipped on and can be removed with a panel removing tool. Extract the (2) 7mm bolts from Uconnect® module.



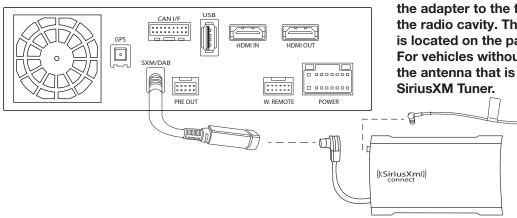
3 Secure the Uconnect® module to the original location using the 7mm bolts.

2 Disconnect the 24pin OEM connector.



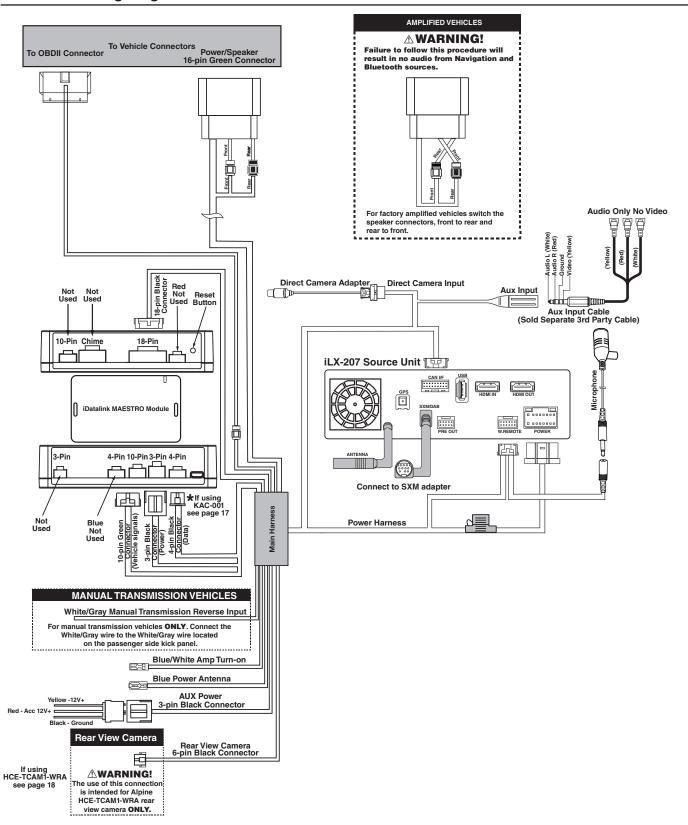
NOTE: Since the factory Uconnect® system is not going to be used you can unplug the 24 pin connector shown in step 2. If Uconnect® module is not disconnected the Uconnect® system will stay paired with previously paired phones. The user's phone may connect to both Bluetooth devices simultaneously resulting in unpredictable and potentially distracting behavior.

Connecting A SiriusXM Module (Sold Separately)

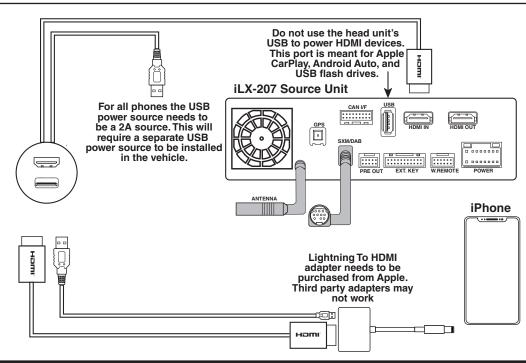


There is no way to integrate the factory SiriusXM tuner. Once the radio is removed, the factory SiriusXM is removed. As the title states, SiriusXM requires a tuner sold separately. This diagram shows how to integrate the antenna connection. For vehicles with factory SiriusXM connect the adapter to the 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.

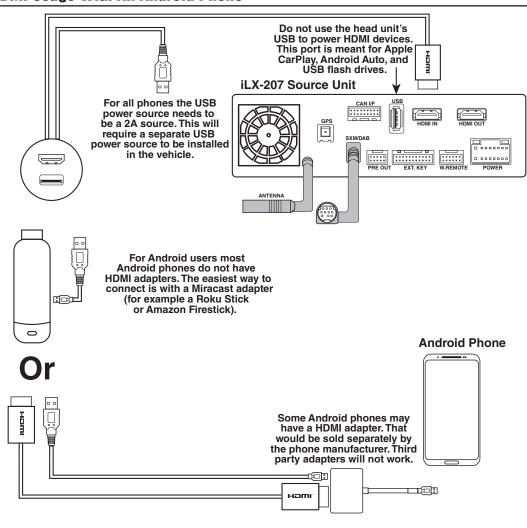
i207-WRA Wiring Diagram



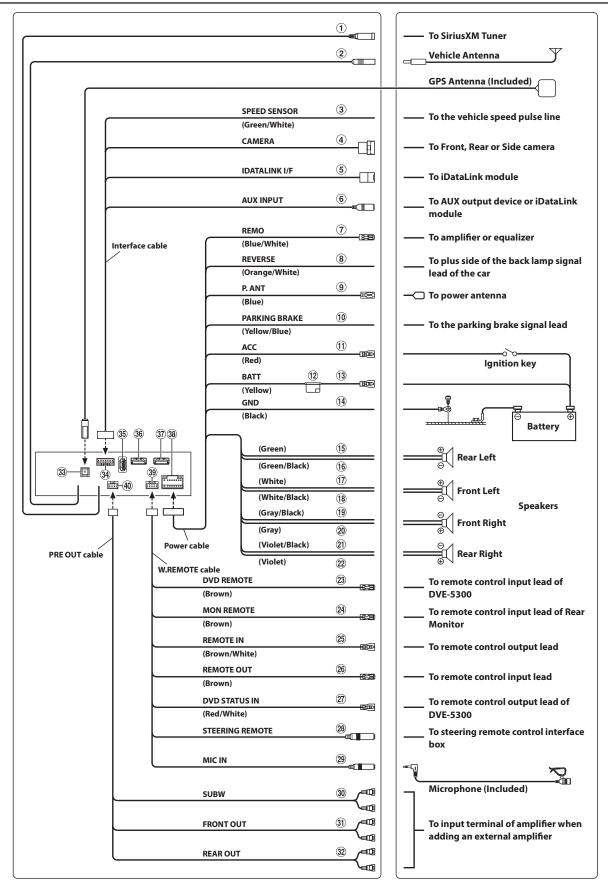
i207-WRA HDMI Usage With An iPhone



i207-WRA HDMI Usage With An Android Phone



i207-WRA Wiring Diagram



Wire Harness Pin Outs

Radio Main

8 16 7 15	Blue 22AWG Red 20AWG Blue/White 22AWG Orange/White 22AWG Yellow/Blue 22AWG
5 13 4 12 3 11 2 10	Purple 20AWG Gray 20AWG Purple/Black 20AWG Gray/Black 20AWG Green 20AWG White 20AWG Green/Black 20AWG White/Black 20AWG Yellow 18AWG Black 18AWG

Remote Harness

	White 22AWG
11 12	Black 22AWG
F 9 10	
78	Red/White 22AWG
56	Brown 22AWG
434	
_12	

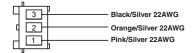
Cam Aux Data

17 18 15 16 13 14 11 12 9 10 7 8 5 6 3 4	Red 22AWG Blue 22AWG Blue 22AWG Black 22AWG White 22AWG White 22AWG Blue 22AWG Black 22AWG Black 22AWG Black 22AWG Black 22AWG Red 22AWG Black 22AWG Green/White 22AWG Red 22AWG
1 2	
	17 18 15 16 13 14 11 12 9 10 7 8 5 6 3 4 1 2

DVD Display

	Red 22AWG
5 1	Red/White 22AWG
r 6 2	Brown 22AWG Pink/Silver 22AWG
	Black 22AWG Black/Silver 22AWG
년 년	Yellow 22AWG
	Orange/Silver 22AWG

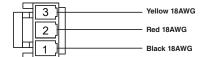
Key Harness



Rear Camera



KAC-001 Power



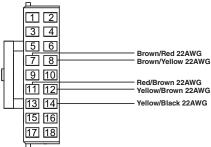
Direct Camera

6	l	Black 22AWG
5		Black 22AWG
4		Red 22AWG
3		Blue 22AWG
2		Black 22AWG
1		White 22AWG

Alternate Power



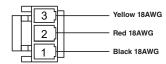
Data SWC



Radio I/O



Power/ACC



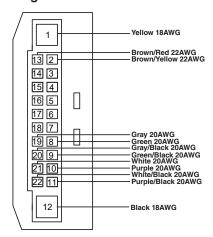
iDatalink

9	
	Blue 22AWG
TH [2]	White 22AWG
₩ <u>₹</u>	Black 22AWG
	Red 22AWG
التال	Red 22AWG

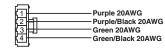
Audio In

1 2 3 4 5 6 7 8 9 10	— White/Red 22AWG — White/Brown 22AWG — Grey/Red 22AWG — White/Brown 22AWG
----------------------------------	---

Wrangler Harness



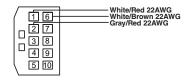
Speaker Harness



Speaker Harness

_	
(1)	Gray 20AWG
12 H1	Gray/Black 20AWG
<u> </u>	White 20AWG
治만	
<u>L</u>	White/Black 20AWG

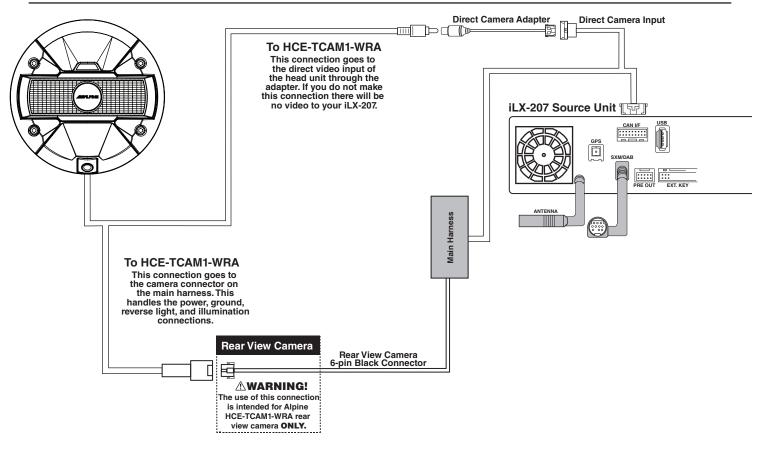
Wrangler Harness



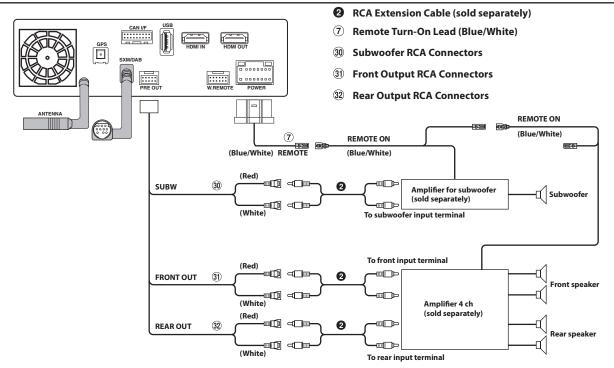
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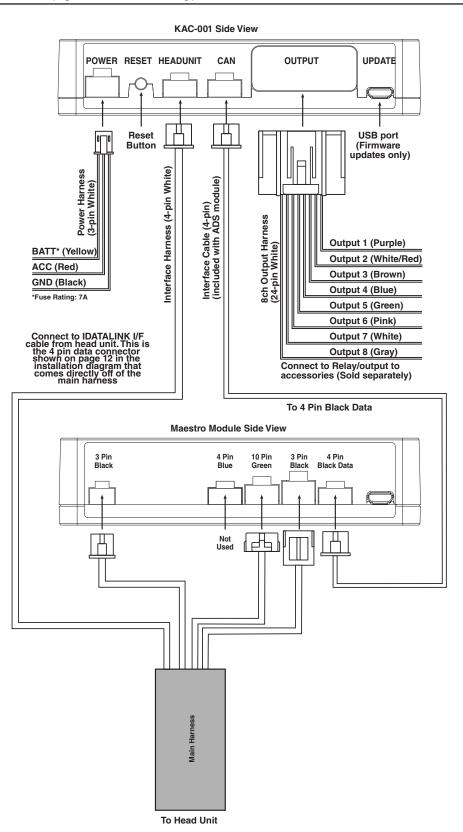
Connection Of HCE-TCAM1-WRA (Optional Accessory)



Connection Of An External Amplifier



Connection Of KAC-001 (Optional Accessory)



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Set Up Guide

- 1 Turn the vehicle's Ignition switch to ACC.
- 2 Turn ON the i207-WRA by pressing any key.
- 3 Select the user language and press OK.
- 4 With the vehicle parked, engage the parking brake, release the parking brake and engage the parking brake again.
- 5 If a camera is present, turn it ON in the system menu. (MENU/SETUP/SYSTEM/CAMERA/CAMERA SELECT).
- 6 AUDIO MUTE ON REVERSE- By default, when the vehicle is shifted into reverse the AUDIO will MUTE. If this feature is not desired turn it off in the AUDIO MENU (MENU/SETUP/SOUND/MUTE WHILE BACKING UP).
- 7 If the AUX Input is being use be sure to turn it ON in the SETUP MENU. (MENU/SETUP/SOURCE/AUX).
- 8 Set the DVD player (if optional DVD player is installed). (MENU/SETUP/SOURCE/HDMI).
- 9 When the KAC-001 (External Accessory Control Module) is present be sure to turn it ON in the SETUP MENU. (MENU/SYSTEM/EXTERNAL ACCESSORIES/EXTERNAL ACCESSORY CTLR).
- 10 Vehicle information- Set the desired gauge information. (MENU/VEHICLE INFO/GAUGES/CAR SETTINGS).

Troubleshooting Guide

	Symptom	Possible Cause	Remedy
1	iPhone not working with	Not using Apple HDMI to Lightning adapter.	Purchase the HDMI to Lightning adapter directly from Apple. Not all 3rd party adapters work the same.
	HDMI.	Didn't plug USB power into a 2A source.	Do not plug into the USB from the Alpine head unit. A third party USB adapter will need to be used that is 2A.
2		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.
	Android phone is not working with HDMI.	Miracast adapter isn't plugged into a 2A source.	Do not plug into the USB from the Alpine head unit. A third party USB adapter will need to be used that is 2A.
		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	Incorrect serial number is being used.	In the i207-WRA settings confirm the serial number. MENU/SETUP/GENERAL/ABOUT.
	number is invalid.	Serial number may not be in iDatalink database.	Call ADS at 1-866-427-2999 and verify.
4	No output from RCA's	Maestro module is flashed for amplified system.	Re-flash module for non-amplified system.

Troubleshooting Guide Continued

	Symptom	Possible Cause	Remedy
5		One of the power wires does not have proper voltage	Test the power wires with a digital multimeter and trace from there.
	Headunit will not turn on.	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 or main harness are not connected.	Check for proper connection or disconnected pins.
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 18.
8	Sound mutes when vehicle is shifted into reverse.	Mute on reverse is turned on in the SOUND menu.	Change Mute on reverse to off.
9	Only the front speakers are on for SXM Radio.	SXM Tuner has not been activated.	Activate SXM Tuner.
10	The vehicle is incorrectly positioned on the Navigation display.	Poor GPS signal.	Ensure the recommeded GPS antenna route was used. See page 7.
11	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.
12	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.
13	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 and only plug into the extension provided with the head unit. 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.
14	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
15	Video not working with Aux Input.	The Aux Input is only meant for audio.	There is no way for the video portion to be active.