Jeep Wrangler
i209-WRA
i209-WRASXM
9" Restyle Installation Manual
● Model: Wrangler
● Model Year: 2011-2017
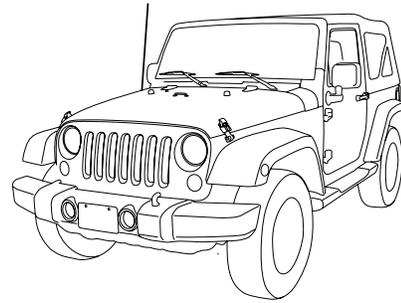
Jeep	Model	Year
	Wrangler	2011-2017

* 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 i209-WRA. This installation manual is designed to take you through the step-by-step installation of the i209-WRA into a 2011 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

⚠ 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)	**Mandatory**	Indicates actions that are mandatory (must be performed)
Forbidden	Indicates that disassembly is forbidden.	⚠	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 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.

Mandatory

Before you begin wiring, remove the ground wire from the negative terminal of the battery. Failing to do so could lead to electric shock or injury.

⚠

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

Forbidden

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

Forbidden

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

⚠

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

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

Panel Removing Tool	7mm Sockets	#2 Phillips Screwdriver
10mm Sockets	**Extension**	**Ratchet**
	Air Saw	**Wire Cutters**
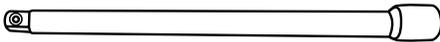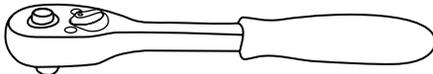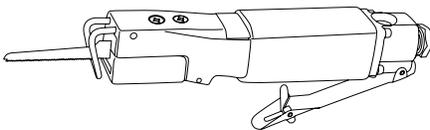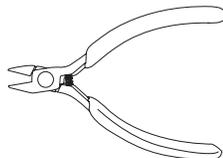
Accessory List

Installation Kit Parts (G-KTX-i209-WRA)

i209-WRA Radio Dash Bezel	Key Harness	Side Mounting Brackets
Microphone	**GPS Antenna Bracket**	**Display Mounting Brackets**
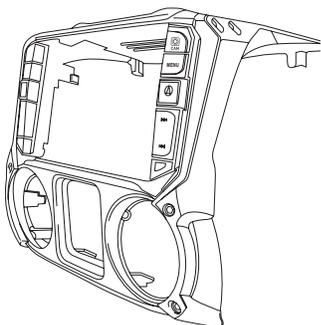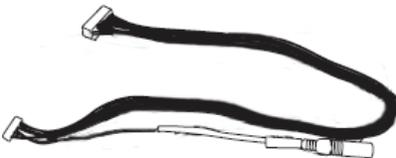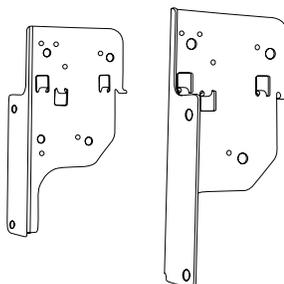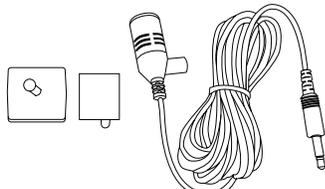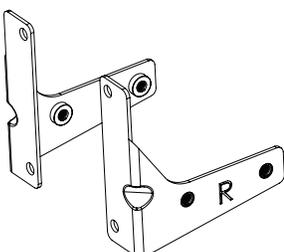
Accessory List

Head Unit Box Parts (i209)

i209 Display Unit	i209 Source Unit	USB Extension Cable
AUX/Pre Out Harness	GPS Antenna	Documents OM QR Card Alpine Registration Card QRG Navigation
Direct Camera Adapter	Display Cable	Display Power Harness
Anti-Vibration Foam	Screws (12pcs)	SXM Tuner (included in i209-WRASXM kit only)
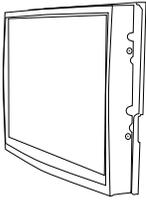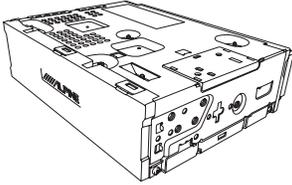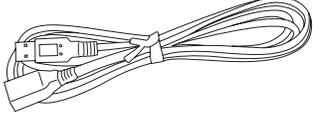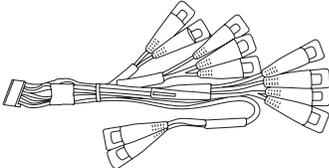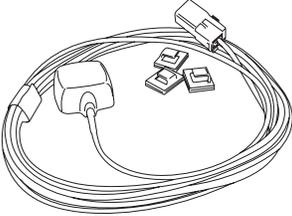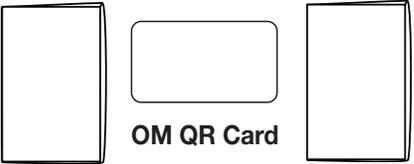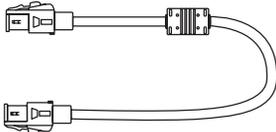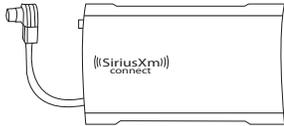
iDatalink Maestro Box Parts (ALP-MRR2/ALP-HRN-WRA2)

Maestro Flashing Cable	Antenna Adapter	iDatalink Maestro Module
Main Harness	SAT Radio Antenna Adapter	OEM USB Adapter
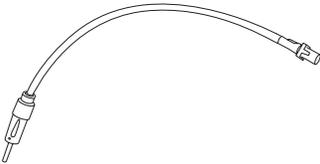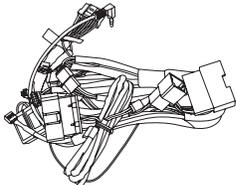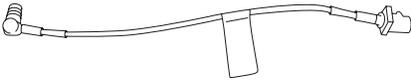
Programming the iDatalink Maestro Module

1 INSTALL THE WEBLINK PLUG-IN
Go to:
idatalinkmaestro.com/plugin and follow the installation steps.

Review the System Requirements before installing.
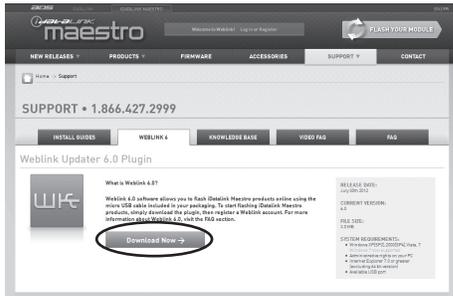
If the plugin is already installed, the caution, "The plugin is already installed" appears. Please skip to step 2.
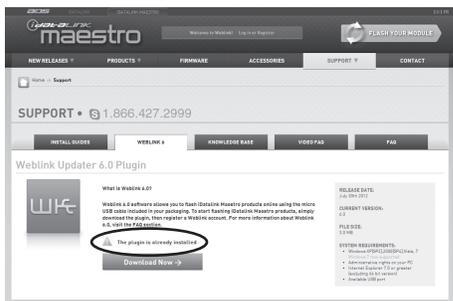
3 CONNECT YOUR MAESTRO MODULE
Use your Maestro module to connect to your PC.
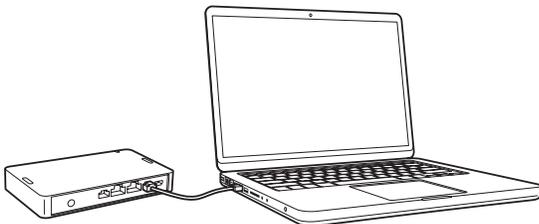
5 PROGRAM YOUR MODULE
Follow the programming steps for your vehicle.

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.

Component Locations

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

GPS Antenna Location

BT Microphone

iDatalink Maestro Module

**SAT-Radio Tuner (Sold Separately)**
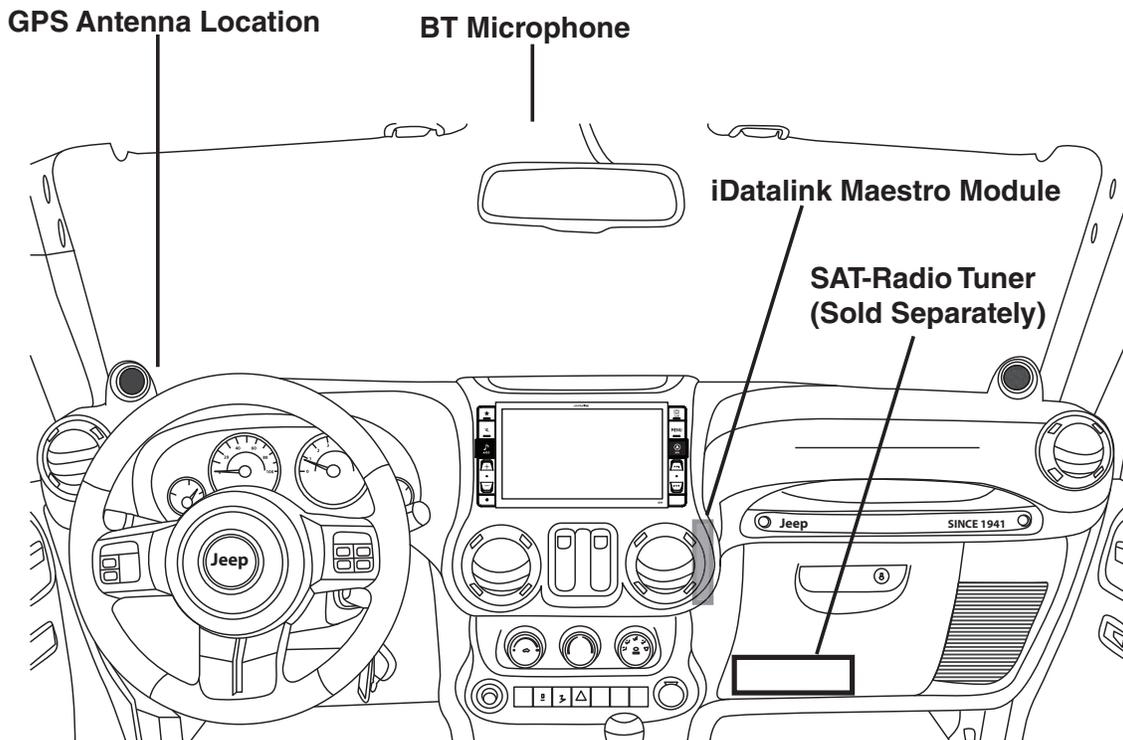
GPS Antenna Installation

⚠ IMPORTANT: Follow the GPS antenna installation procedure shown below. Failure to do so will result in poor GPS performance.

Wire Hook   Excess GPS cable   Wire Hook   Key Cable
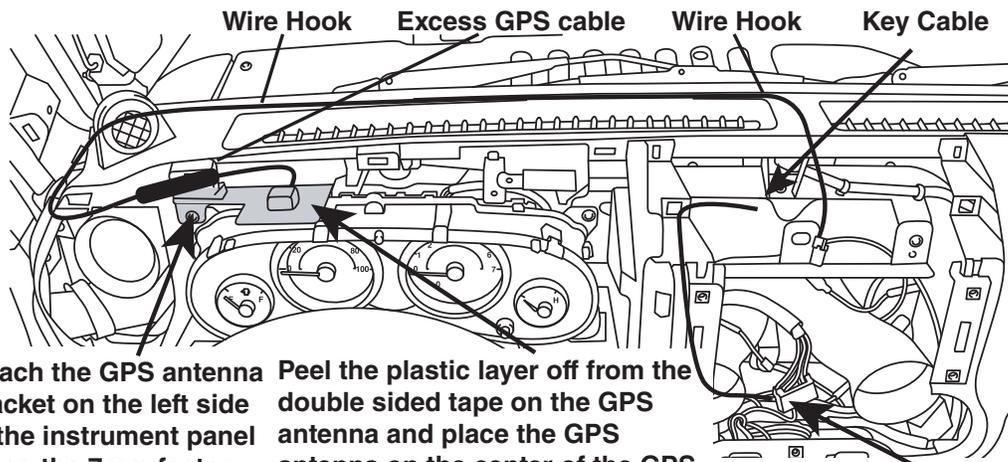
Attach the GPS antenna bracket on the left side of the instrument panel using the 7mm factory screw.
***Excess cable should be under the bracket.**

Peel the plastic layer off from the double sided tape on the GPS antenna and place the GPS antenna on the center of the GPS antenna bracket with the cable facing forward.

Key cable should be zip tied to side of radio cavity.

Factory Unit Disassembly Process

⚠ **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.

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

Left side of steering wheel column.

Right side of steering wheel column.
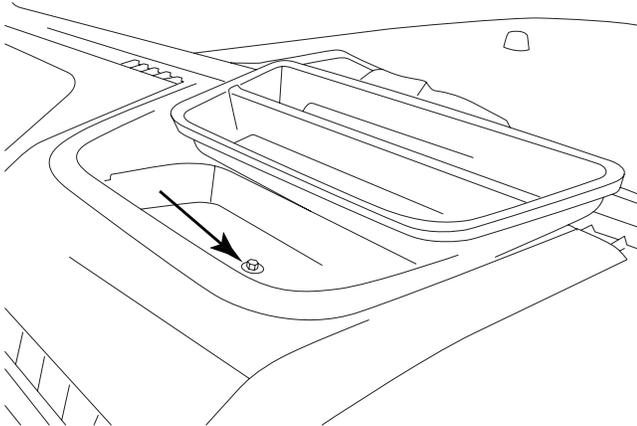
3 Remove the window switch pod using a panel removing tool and extract (1) 7mm screw.

4 Remove the dash panel.
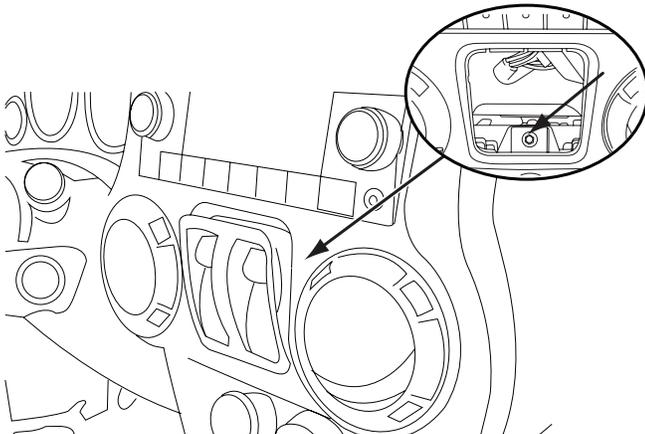
5 Extract (4) 7 mm screws and remove the factory radio.
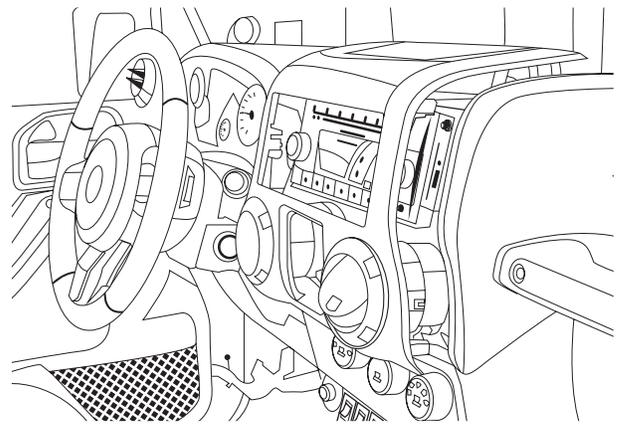
6 Extract (2) 7 mm screws from the factory radio bracket and remove it.
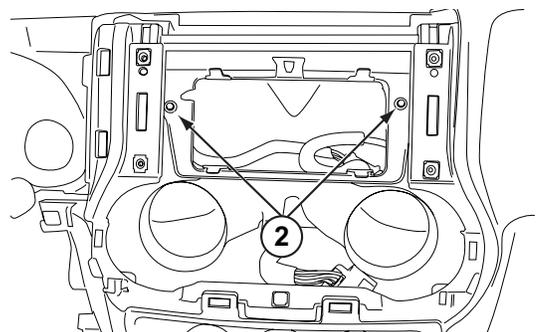
Installation Instructions

1 The factory dash panel needs to be trimmed to allow the new i209-WRA bezel to fit into place. Remove the highlighted area by cutting along the dashed line.
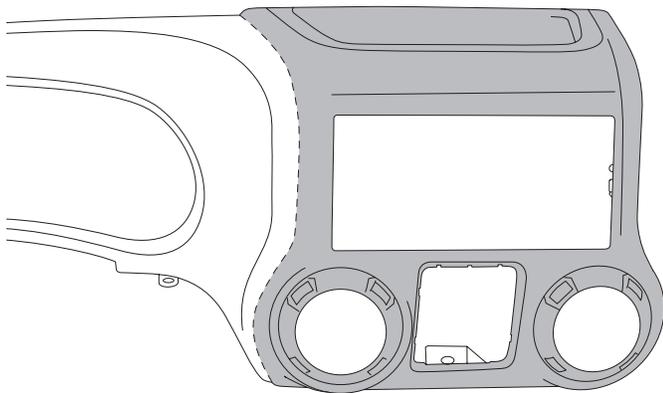
2 Remove the vents from the radio section on the OEM dash panel by pressing down on the lock tab and turning right. Mount vents on to the i209-WRA bezel.

Lock tab

Rear view
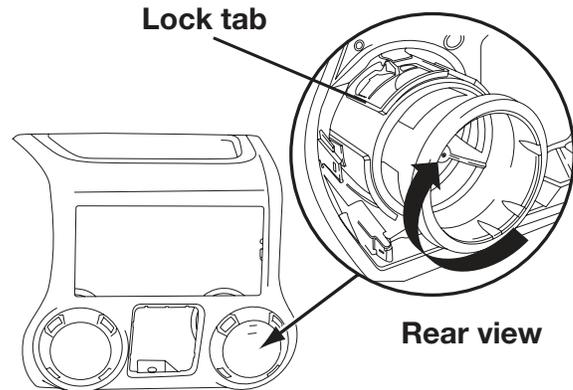
3 Use a cutting tool to trim the highlighted area shown below.

③
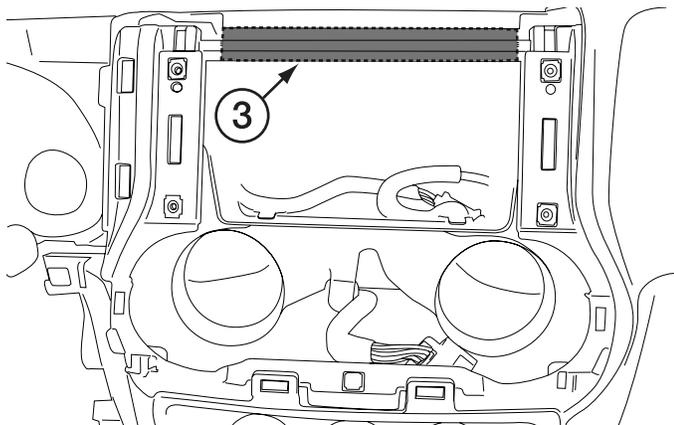
**4** Mount the microphone as illustrated and run the cable to the radio cavity.
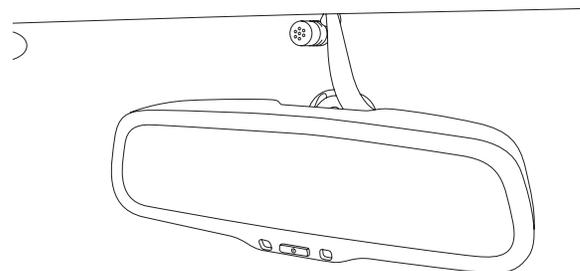
5 Plug the OBDII connector on to the OBDII port below the driver side dash and run the extension to the radio cavity.

⚠ Avoid any sharp edges or interfering with any safety equipment.
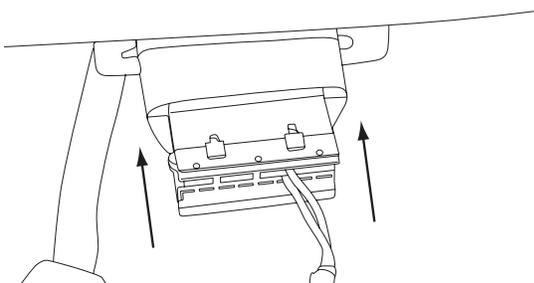
6 Attach the Maestro to the main harness. *See page 13 for more details.
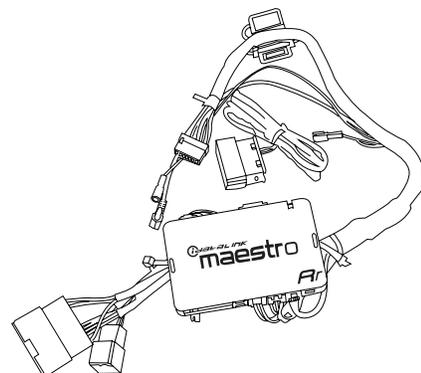
Installation Instructions

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

1 Attach the modified panel using the factory screws.

2 Put monitor face down on a soft, scratch free surface and attach Display Monitor Brackets using (4) 8mm screws (provided). Plug in the Display Cable and Display Power Harness.

3 Apply Insulating pad by removing the paper backing. See diagram below.
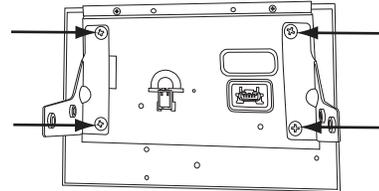
4 Attach the display and source unit with the 8mm screws (supplied) as shown below.
Route the display cable and power harness from the display to the source unit and plug into the W. Remote and Display Out.

5 Route the USB extension cable to the glove box, connect the main harness and other adapters to the factory harness and secure them.
To retain the factory USB port in uConnect systems, See page 11 for installation instructions.
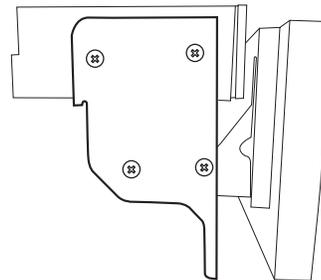
6 Route the key harness through the top-left side of the i209 source unit. Mount the i209 source unit using (4) 7mm factory screws.
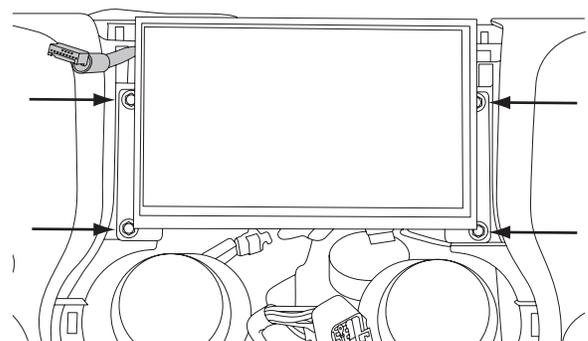
Connecting the uConnect USB port

1 Extract the (2) 7mm bolts.
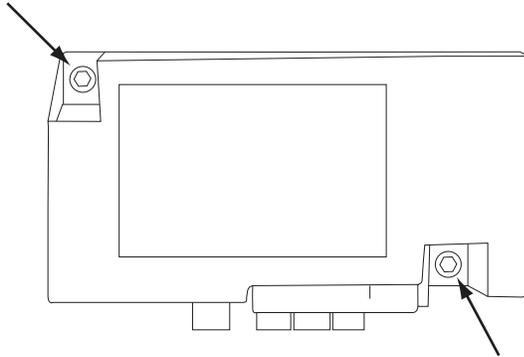
2 Disconnect the 4pin OEM connector.
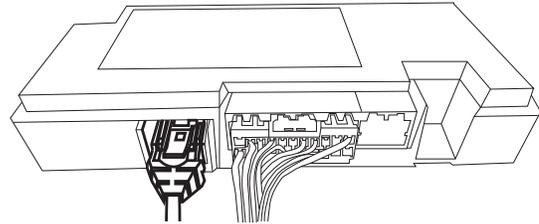
3 Connect the 4pin OEM connector to the OEM USB adaptor (included).
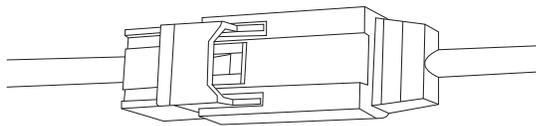
4 Use the USB extension to connect USB adaptor to the radio USB input.

CAN I/F   USB   DISP. OUT
GPS
HDMI IN   HDMI OUT
SXM/DAB
PRE OUT   EXT. KEY   W. REMOTE   POWER
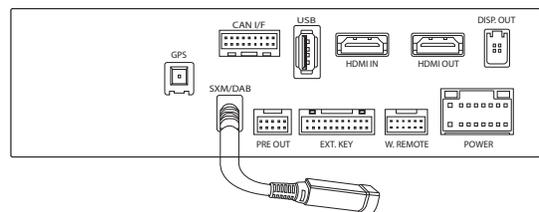
5 Secure the uConnect module to the original location using the 7mm bolts.

Connecting A SiriusXm Module

CAN I/F   USB   DISP. OUT
GPS
HDMI IN   HDMI OUT
SXM/DAB
PRE OUT   EXT. KEY   W. REMOTE   POWER

((SiriusXm))
connect

To SXM OEM antenna attached to OEM FM antenna
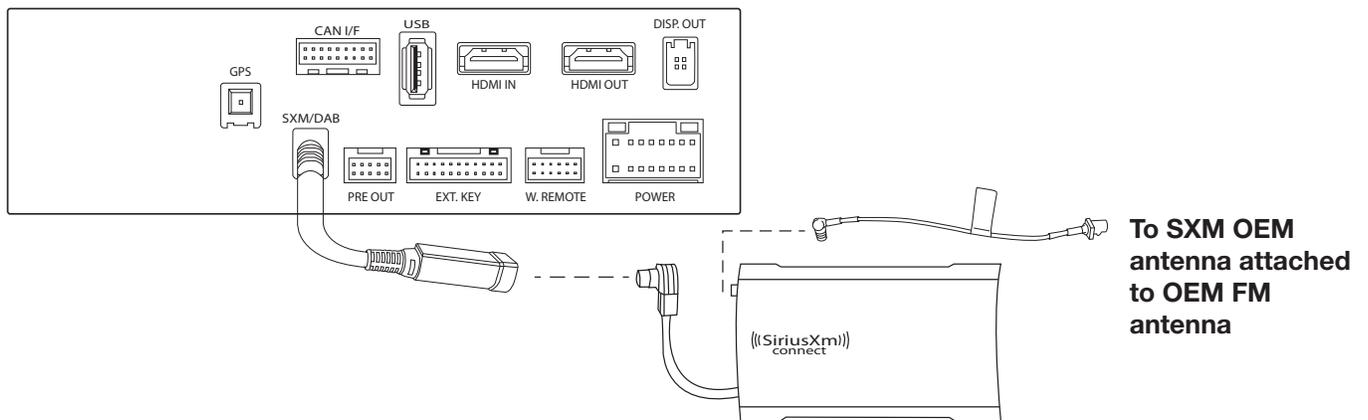
Mounting Brackets

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

⚠ **IMPORTANT: During the research and development of this product it was discovered that mounting tolerance may vary from the vehicle's trim level to year built. We have added a 1mm tolerance to the mounting brackets to compensate for such variance in mounting tolerance. Use the guides below as reference if there are any required adjustments.**

Adjust the rear bracket as needed when the top or bottom is protruding or not flushed.

Adjust the side brackets as needed when either side is protruding or not flushed.

Exploded-View Diagram

Dash Board

i209D Source Unit

i209-WRA Radio Dash Bezel

Side Mounting Brackets

Factory Vents and Window Switch Pod (not included)

Bezel Wiring Diagram

**20 Pin Harness
(Connect to i209D)**

8 Pin Harness

8 Pin Harness

i209-WRA Wiring Diagram

To Vehicle Connectors

To OBDII Connector

OEM Audio 20-pin Gray Connector

Power/Speaker 16-pin Green Connector

Front Front Rear
Front Rear

AMPLIFIED VEHICLES

⚠ **WARNING!**
Failure to follow this procedure will result in no audio from Navigation and Bluetooth sources.

Rear Front
Front Rear

For factory amplified vehicles switch the speaker connectors, front to rear and rear to front.

10-pin Black Connector

18-pin Black Connector

iDatalink MAESTRO Module

3-pin Black Connector (Audio)

10-pin Green Connector (Vehicle signals)

3-pin Black Connector (Power)

4-pin Black Connector (Data)

Main Harness

Direct Camera Adapter — **Direct Camera Input**

i209 - Source Unit

CAN I/F USB HDMI IN HDMI OUT DISP. OUT
GPS
SXM/DAB
PRE OUT EXT. KEY W.REMOTE POWER

ANTENNA

Microphone

Connect to SXM adapter

Power Harness

MANUAL TRANSMISSION VEHICLES

White/Gray Manual Transmission Reverse Input

For manual transmission vehicles **ONLY**. Connect the White/Gray wire to the White/Gray wire located on the passenger side kick panel.

Blue/White Amp Turn-on

Blue Power Antenna

AUX Power 3-pin Black Connector

Yellow -12V+
Red - Acc 12V+
Black - Ground

i209D - Display

Rear View Camera

⚠**WARNING!**
The use of this connection is intended for Alpine HCE-TCAM1-WRA rear view camera **ONLY**.

Rear View Camera 6-pin Black Connector

HDMI Interface 6-pin White Connector

Cut loop when connecting KCX-630HD HDMI selector interface.

For DVD player (NOT INCLUDED)

i209-WRA With Optional HDMI Interface Wiring Diagram

To optional display

i209 - Source Unit

CAN I/F	USB			DISP. OUT
GPS		HDMI IN	HDMI OUT	
	SXM/DAB			
		PRE OUT	EXT. KEY	W.REMOTE	POWER

ANTENNA

DVE-5300 DVD Player

See the setup guide on page 15

KCX-630HD (Optional) HDMI Selector Interface

			POWER
HDMI OUT	HDMI IN 1	HDMI IN 2	USB POWER

Cut loop when connecting KCX-630HD HDMI selector interface.

Smart Phone

MHL or Apple HDMI Adapter

i209 Display

Set Up Guide

1 Turn the vehicle's Ignition switch to ACC.

2 Turn ON the i209-WRA by pressing any key.

3 Select the user language and press OK.

4 With the vehicle parked, hold down the foot brake pedal, engage the parking brake, release the parking brake and finally engage the parking brake and release the foot brake.

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 When the KCX-630HD (HDMI SELECTOR) is present be sure to turn it ON in the SETUP MENU. (MENU/SYSTEM/EXTERNAL ACCESSORIES/HDMI SELECTOR)

8 Set the DVD player. (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	iDatalink website says serial number is invalid.	Serial number may not be in iDatalink database.	Call ADS at 1-866-427-2999 and verify.
2	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.
3	Cannot enter SETTINGS MENU.	Vehicle is in motion or parking brake is not engaged.	With vehicle on (P)PARK, engage the parking brake, release the parking brake and engage the parking brake a second time.
4	No output from RCA's	Maestro module is flashed for amplified system.	Re-flash module for non-amplified system.
5	Android Auto not working	Haven't paired phone to Bluetooth yet	Go into Bluetooth settings on phone, find head unit, and pair.
6	iPhone 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
		Dirty charging port on phone	Clean charging port