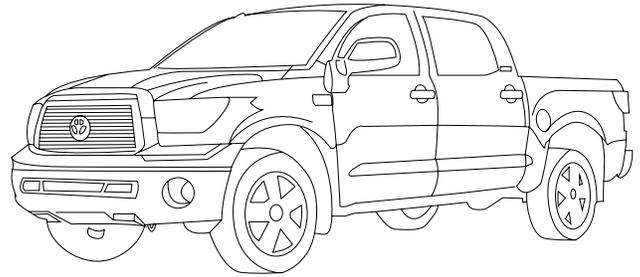


# Toyota Tundra

## iLX-F309TND

### 9" Restyle In-Dash System

### Installation Manual



- Model: Tundra
- Model Year: 2014-Up

Toyota	Model	Year
	Tundra	2014 - Up

\* The specified vehicles have been tested and have met compatibility specs at the time of testing. Compatibility is not guaranteed if the manufacturer has made production changes to the listed vehicles above.

**⚠ 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 iLX-F309TND. This installation manual is designed to take you through the step-by-step installation of iLX-F309TND into a 2014-Up Toyota Tundra. 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.

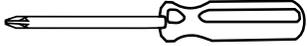
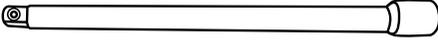
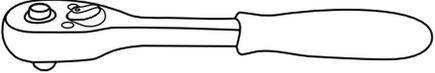
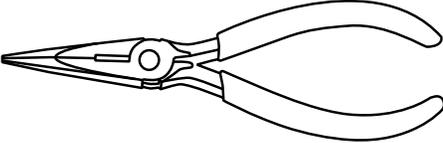
### To Ensure Safe Use, Always Follow These Precautions

- 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

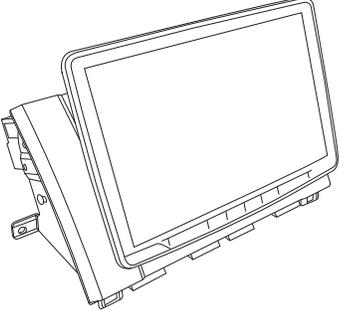
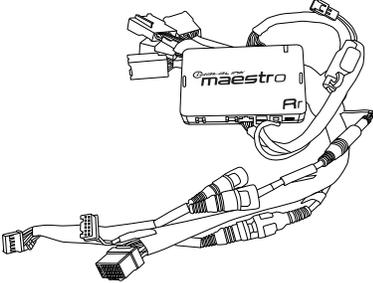
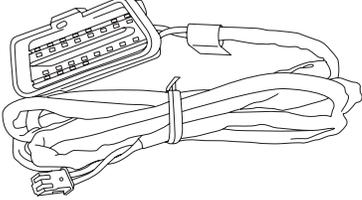
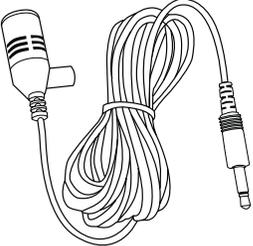
 <b>Warning</b>	Ignoring the content marked by this indication and using the product incorrectly is expected to lead to death or serious injury.
 <b>Caution</b>	Ignoring the content marked by this indication and using the product incorrectly is only expected to lead to injury or property damage.

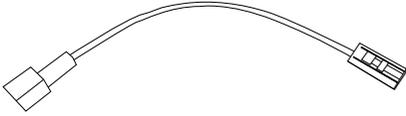
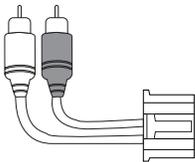
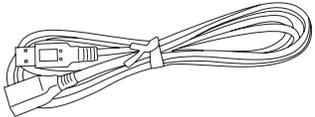
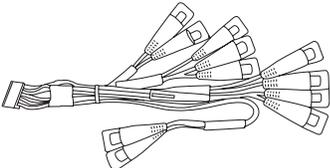
**Tools Required**

Panel Removing Tool	10mm Socket	Phillips Screwdriver
		
Wire Cutters	Extension	Ratchet
		
Needle Nose Pliers	Flathead Screwdriver	
		

**Accessory List**

Installation Kit Parts

iLX-F309TND Radio Mounted In Dash Bezel	Main Harness With Maestro Module Plugged In	OBDII Adapter Cable
		
Bluetooth Mic	Phillips Screws x 1	FM Antenna Adapter
		

<p><b>GPS Antenna Adapter</b></p> 	<p><b>Satellite Radio Antenna Adapter</b></p> 	<p><b>OEM USB Adapter</b></p> 
<p><b>Low Level RCA Adapter</b></p> 	<p><b>Cable Ties x 10</b></p> 	<p><b>USB Extension Harness</b></p> 
<p><b>Aux/Preout Harness</b></p>	<p><b>Documents</b></p>	
	 <p><b>Alpine Registration Card</b></p>  <p><b>Quick Reference Guide</b></p>	

## Programming the iDataLink Maestro Module

The Maestro module is pre-flashed already. This page is here in case the module needs to be flashed again.

### 1 INSTALL THE WEBLINK PLUG-IN

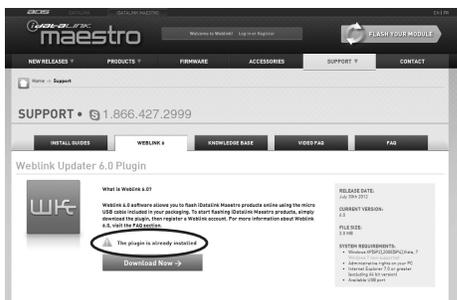
Go to:

[idatalinkmaestro.com/plugin](http://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 an alphanumeric value which is found on the head units label, underneath the bar code.

Review the System Requirements before installing.

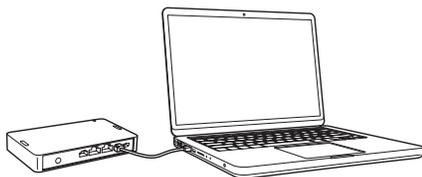


If the plugin is already installed, the caution, “The plugin is already installed” appears. Please skip to step 2.



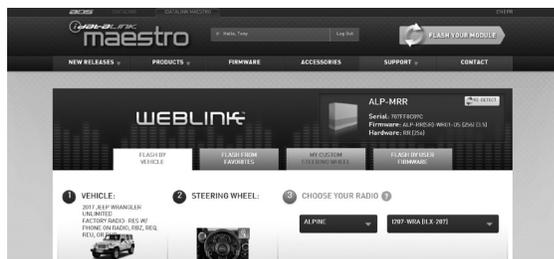
### 3 CONNECT YOUR MAESTRO MODULE

Use your Maestro module to connect to your PC.



### 5 PROGRAM YOUR MODULE

Follow the programming steps for your vehicle.

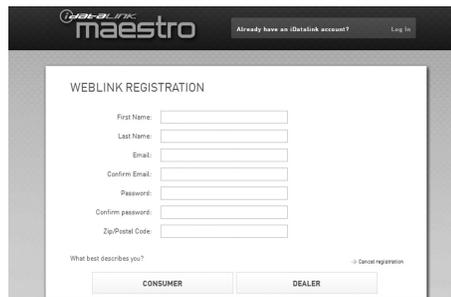


### 2 REGISTER A WEBLINK ACCOUNT

Go to:

[idatalinkmaestro.com/register](http://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](http://idatalinkmaestro.com/login).

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.**

**Factory Unit Disassembly Process**

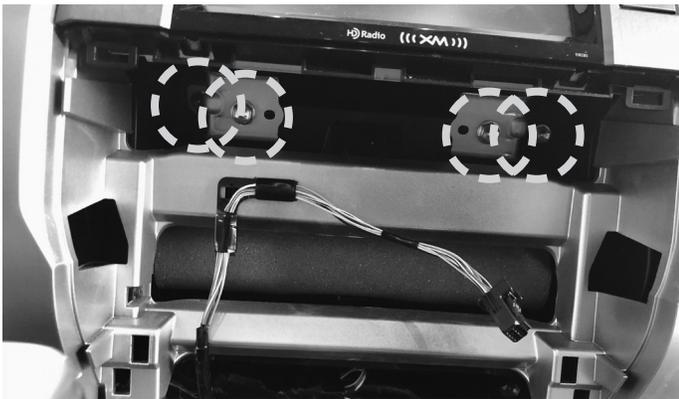
- 1 Use a panel removal tool to release clips of the cigarette lighter/AUX panel and remove it.



- 2 Use a panel removal tool to release the clips on the HVAC control panel and remove it.



- 3 Use a 10mm socket to extract (4) 10mm screws below the radio.



- 4 Use a panel removal tool to release the clips on the upper section of the radio disconnect and remove it.



- 5 Use a panel removal tool to release screw cover on the driver's side A pillar.



- 6 Extract a 10mm screw and remove the A pillar cover.



**Factory Unit Disassembly Process (Continued)**

**7** Use a panel removal tool to release the clips on the door sill and remove it.



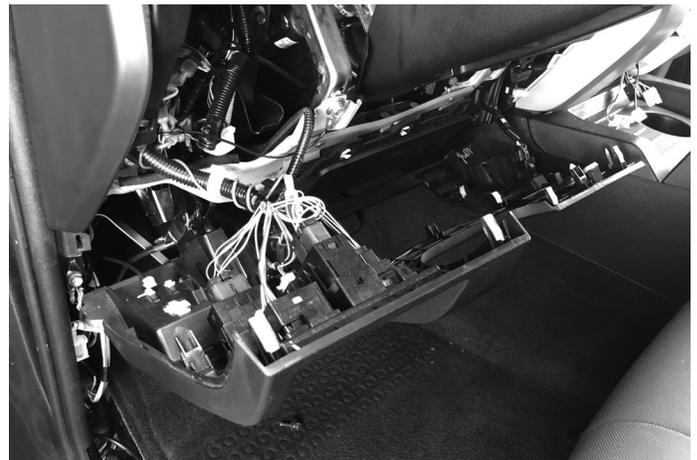
**8** Remove the plastic nut on the driver's kick panel and carefully lift the kick panel to remove it.



**9** Use a 10mm socket to extract (2) 10mm screws from the driver's side knee cover panel.



**10** Use a panel removal tool to release the clips on the knee cover panel and remove it.



**11** Use a panel removal tool to release the rear cover from the eyewear compartment and remove it.



**12** Open the eyewear compartment to reveal (2) T20 Torx screws. Extract (4) Torx screws from the entire assembly and remove it.



## Installation Instructions

- 1 Use the included 3mm Phillips screw to mount the microphone next to the eyewear compartment.  
**Note: Be sure to clear the motion path of the sun visor.**



- 3 Connect the OBD2 connector cable to the OBD2 port below the driver's side dashboard.



- 5 Connect the FM, GPS, USB and SAT radio adapters.



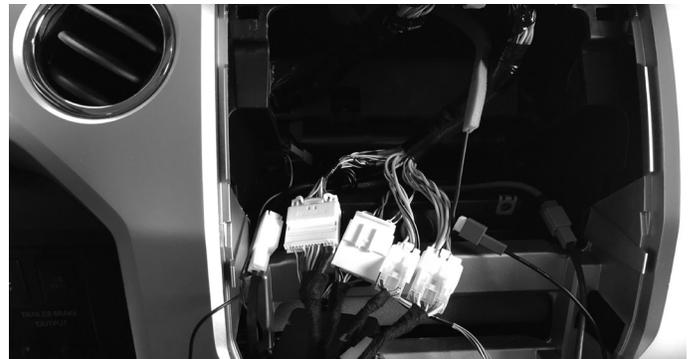
- 2 Route the microphone cable down the driver's A pillar following the factory harness while securing the cable with the provided cable ties.



- 4 Route both the microphone and OBD2 cables to the radio cavity as shown below.



- 6 Connect the main harness to the radio and vehicle following the corresponding system wiring diagram on pages 8 or 9. **Note: The Negative (-) battery terminal should remain disconnected until the installation is completed.**



## Installation Instructions (Continued)

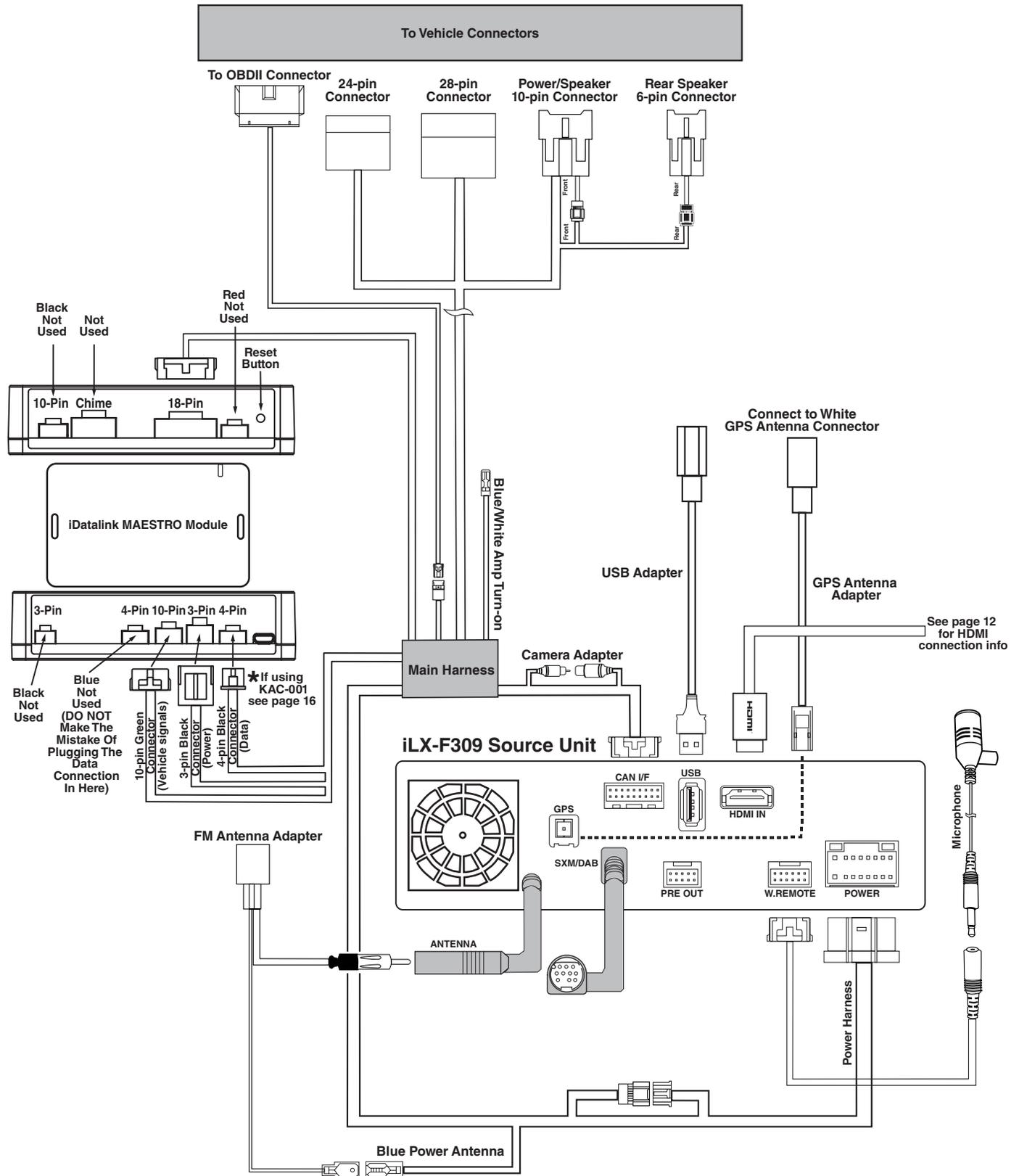
- 7 Mount the iLX-F309TND using (2) 10mm factory screws. **Note:** *Place the additional (2) 10mm screws in their respective location in case they are need in future applications.*



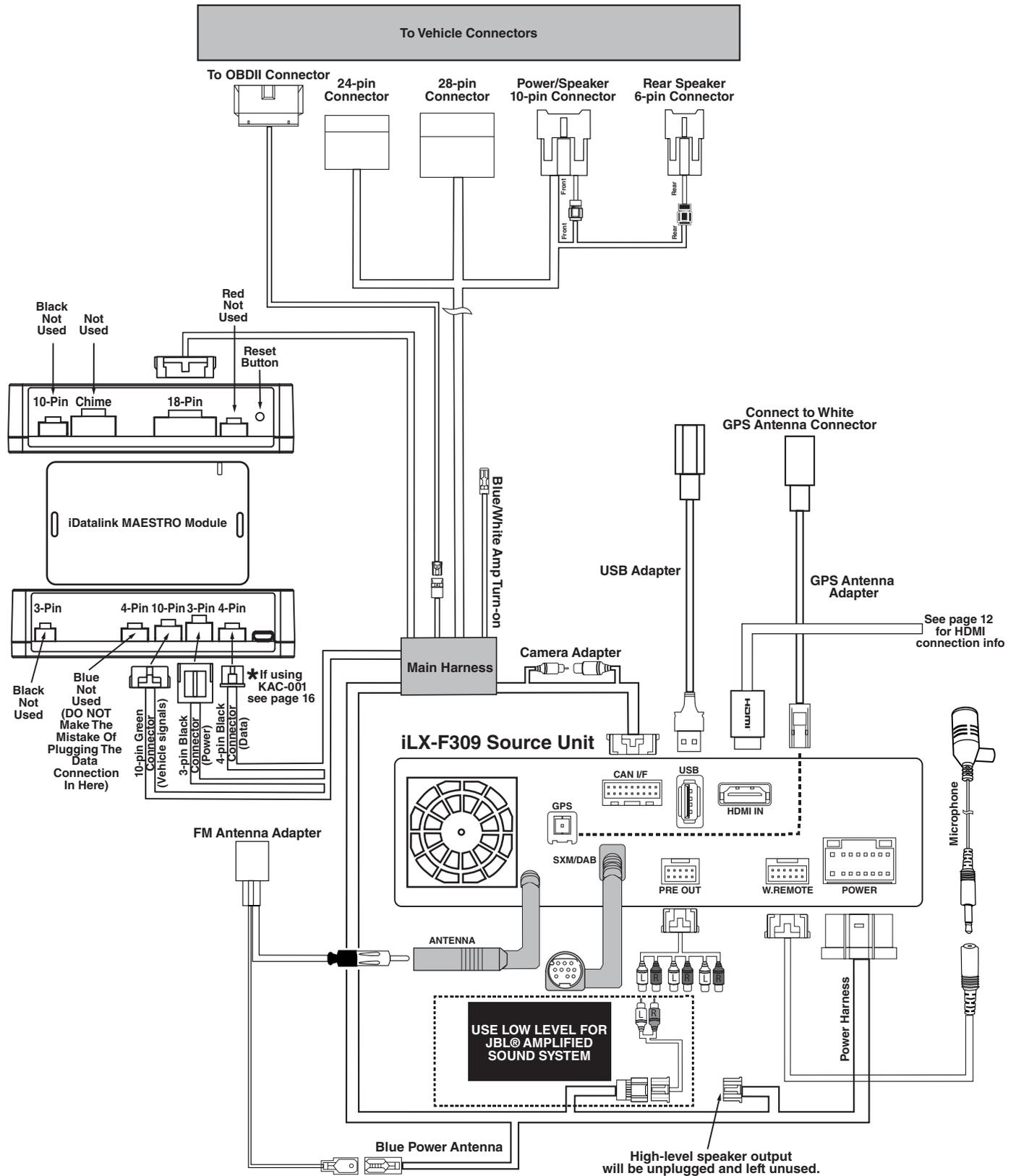
- 8 Replace all removed components to their factory location and connect the Negative (-) battery terminal.



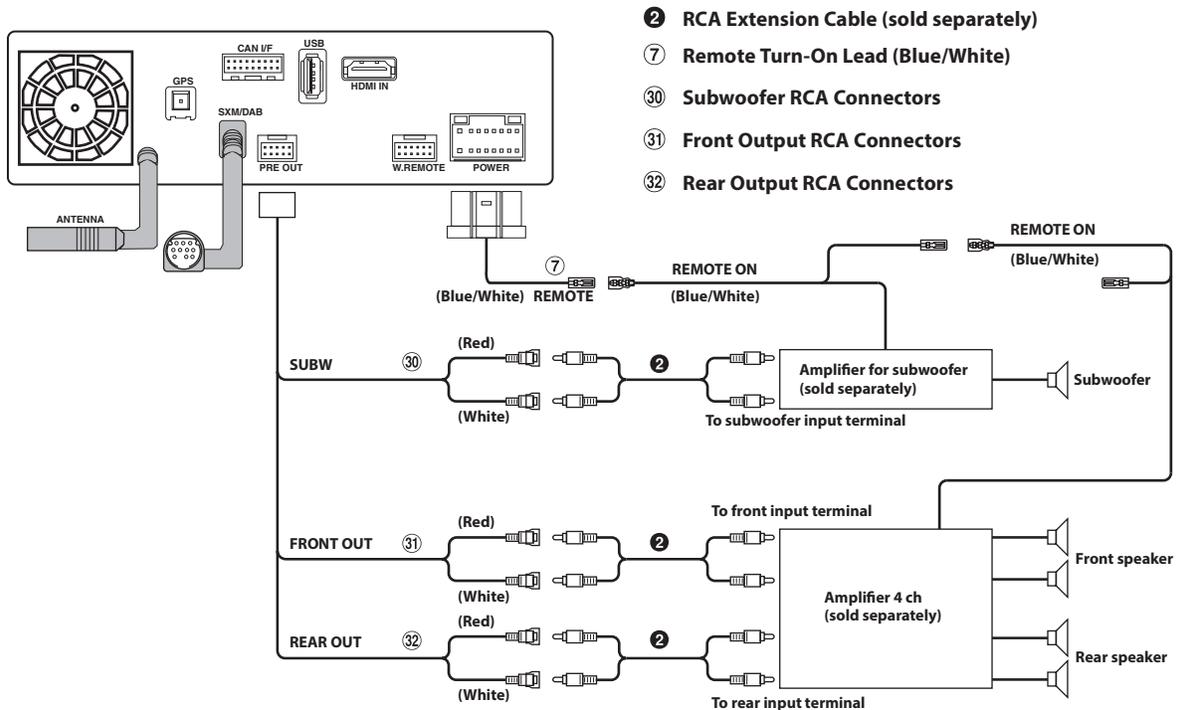
# iLX-F309TND Wiring Diagram W/O Factory Amplifier



# iLX-F309TND Wiring Diagram With Factory Amplifier



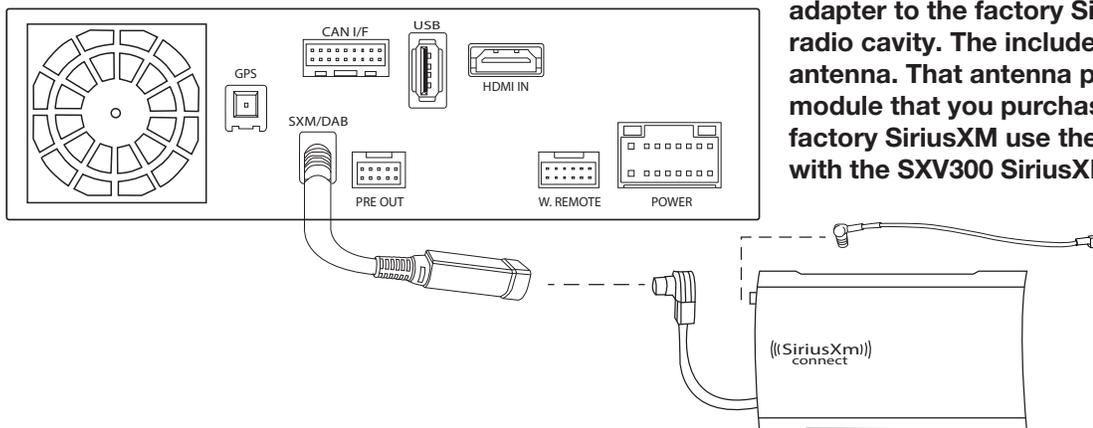
## Connection Of An External Amplifier



- ② RCA Extension Cable (sold separately)
- ⑦ Remote Turn-On Lead (Blue/White)
- ③① Subwoofer RCA Connectors
- ③② Front Output RCA Connectors
- ③③ Rear Output RCA Connectors

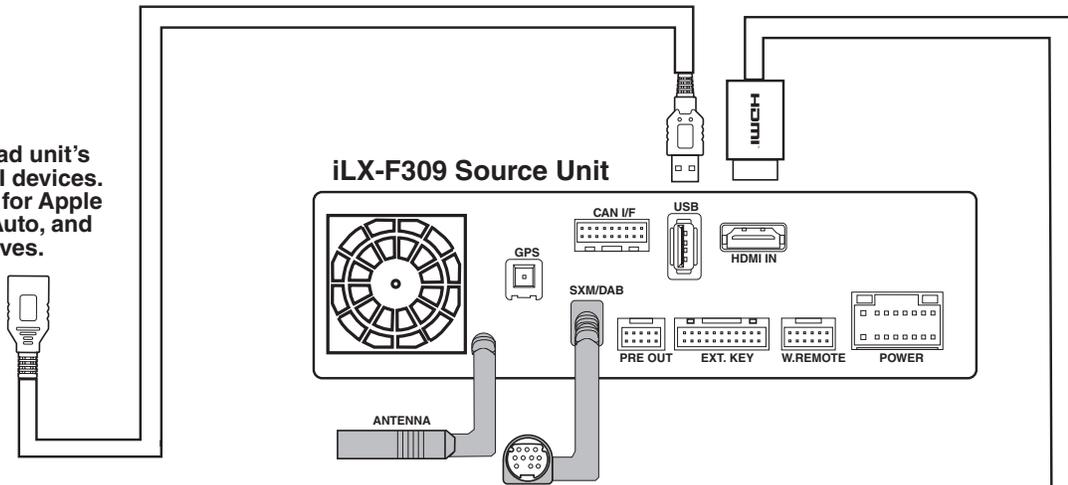
## Connecting A SiriusXM Module (Sold Separately)

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 included adapter is just for the antenna. That antenna plugs into the aftermarket module that you purchase. For vehicles without factory SiriusXM use the antenna that is included with the SXV300 SiriusXM Tuner.

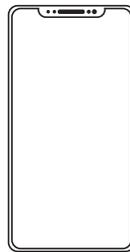


**iLX-F309TND HDMI Input**

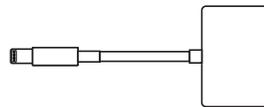
Do not use the head unit's USB to power HDMI devices. This port is meant for Apple CarPlay, Android Auto, and USB flash drives.



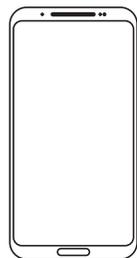
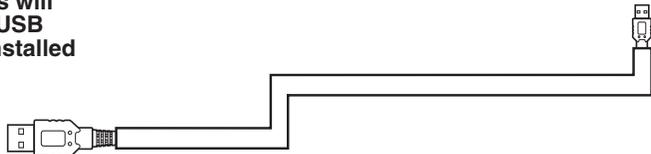
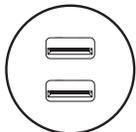
**iPhone**



For iPhone the Lightning to HDMI adapter is required



For all phones the USB power source needs to be a 2A source. This will require a separate USB power source to be installed in the vehicle.



**Android Phone**

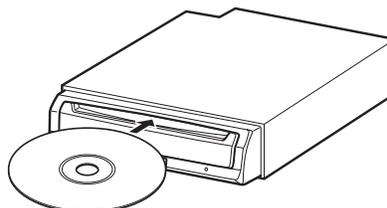
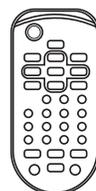
For Android users most Android phones do not have HDMI adapters. The easiest way to connect is with a Miracast adapter (for example a Roku Stick or Amazon Firestick).



**Or**

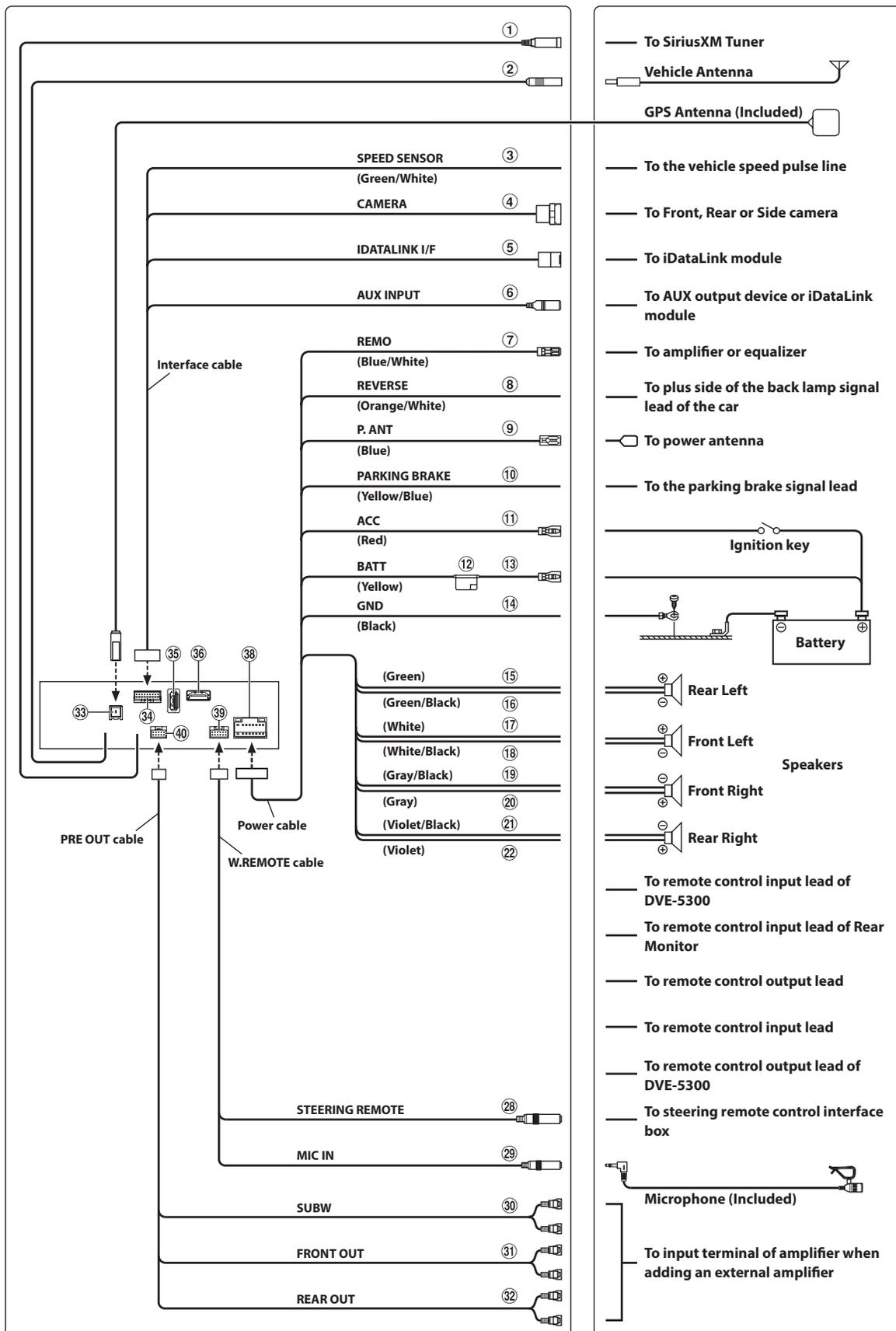
**Or**

**DVE-5300 DVD Player**



When using the DVE-5300 with the iLX-F309 only the remote can be used to control the DVD player.

**iLX-F309TND Wiring Diagram**

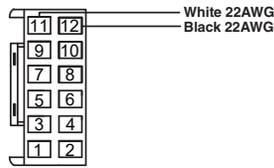


**Wire Harness Pin Outs**

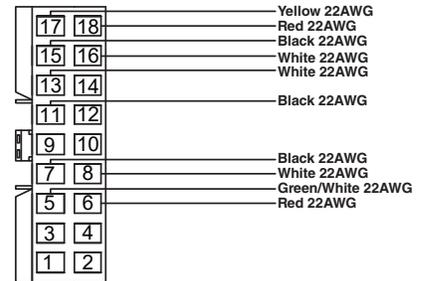
**Radio Main**



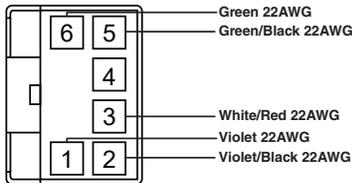
**Remote Harness**



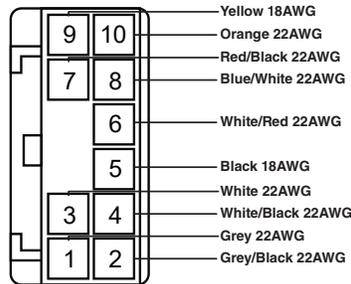
**Cam Aux Data**



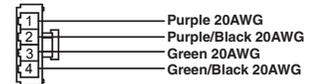
**OEM Speaker Harness 1**



**OEM Speaker Harness 2**



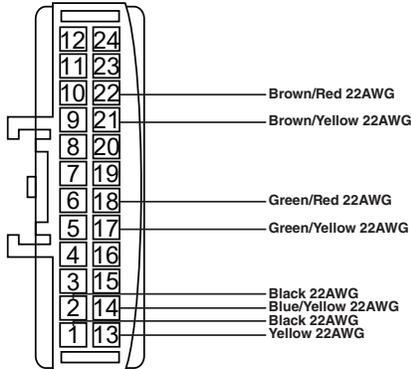
**Speaker Harness**



**Speaker Harness**



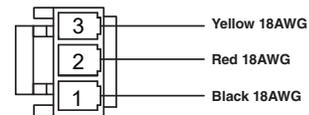
**Toyota Radio 1**



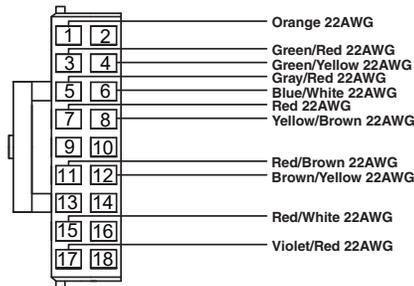
**iDataLink**



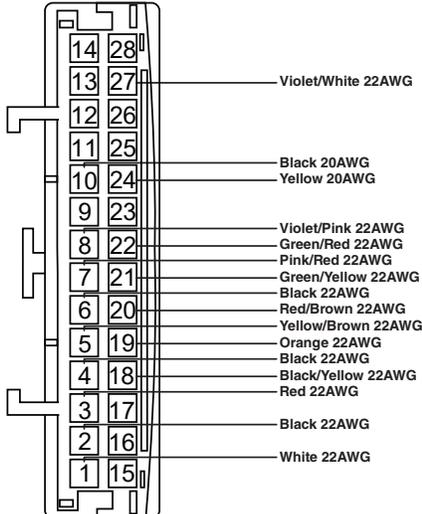
**Power/ACC**



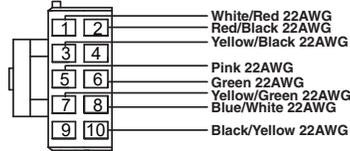
**Data SWC**



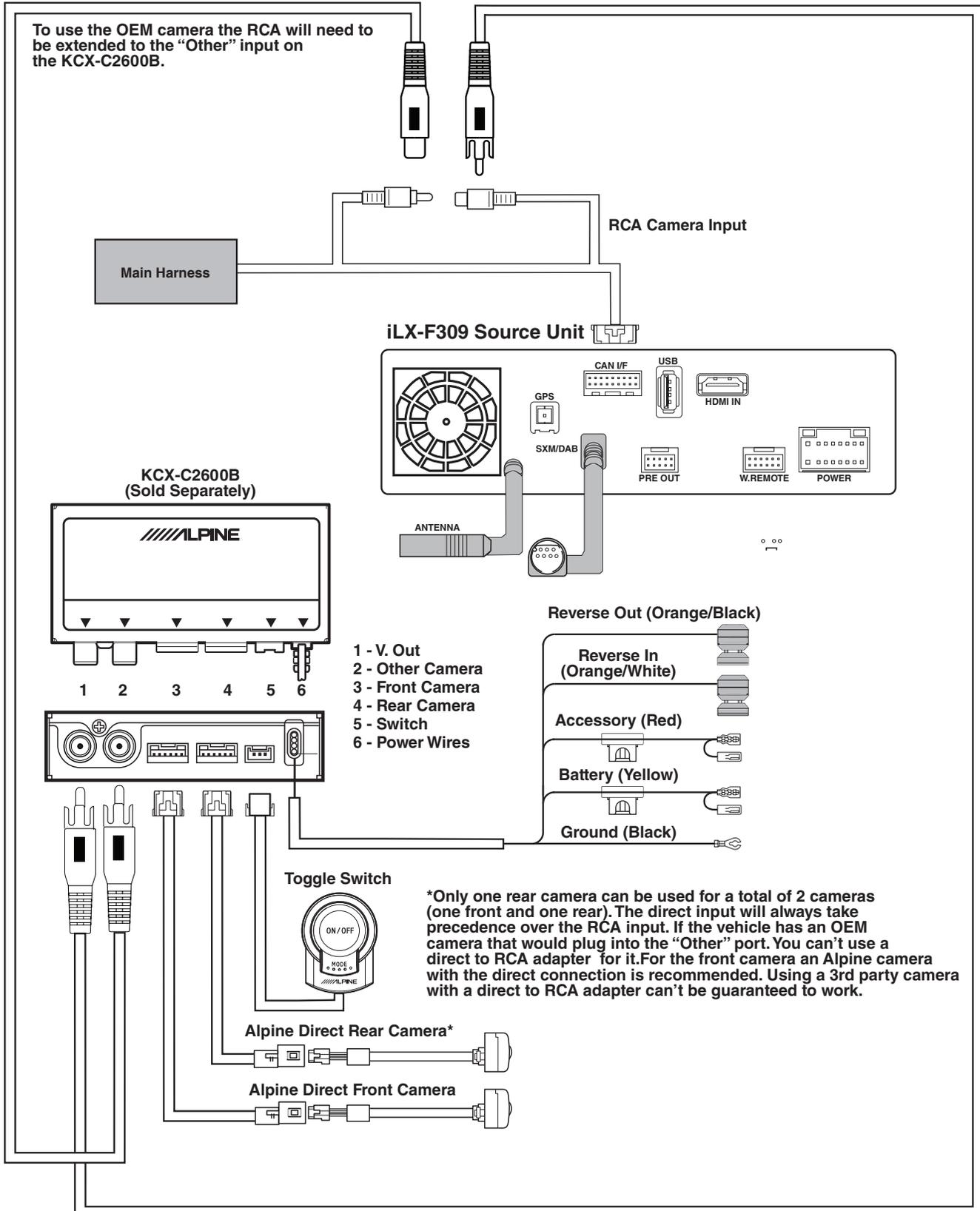
**Toyota Radio 2**



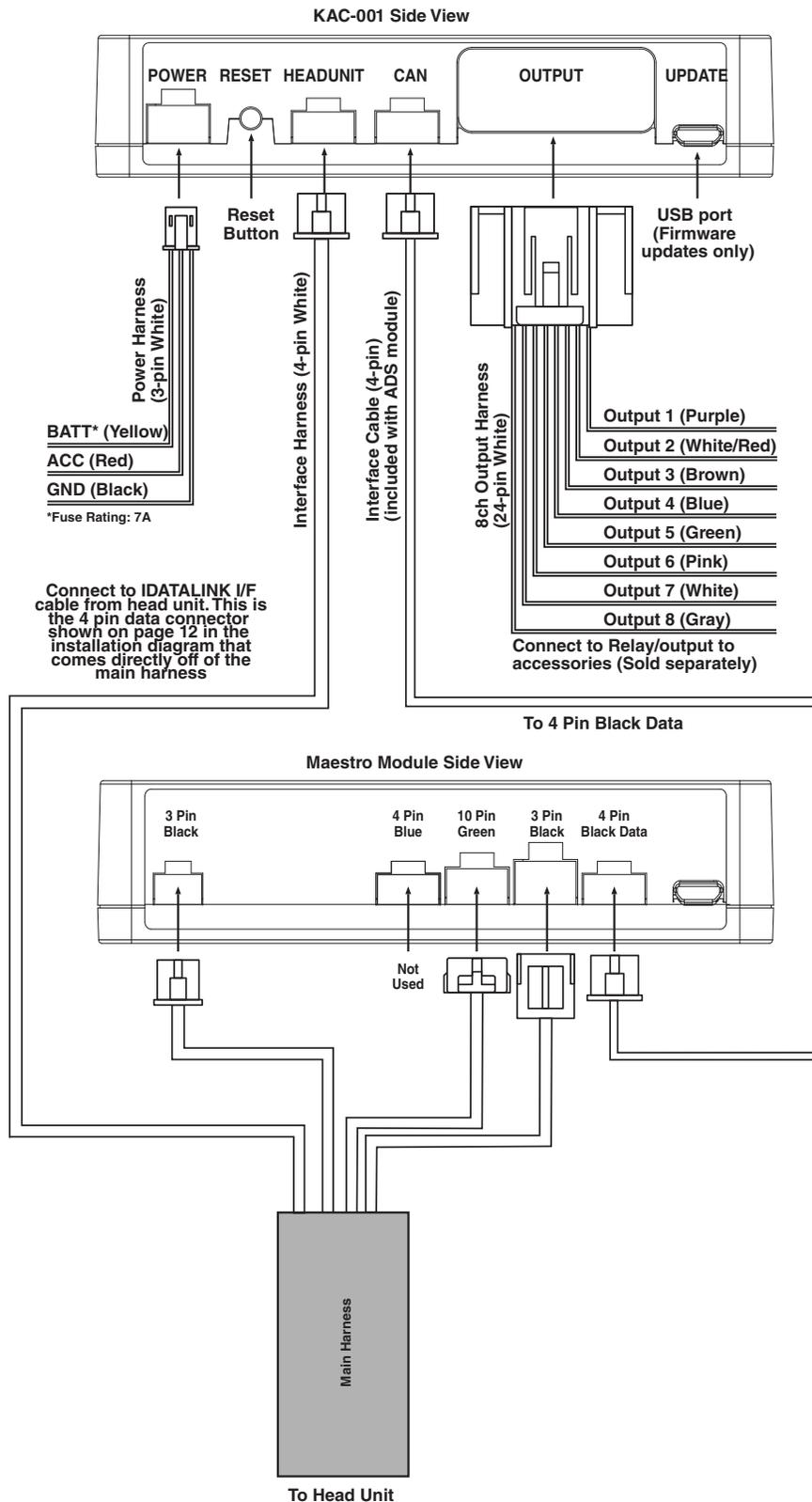
**Audio In**



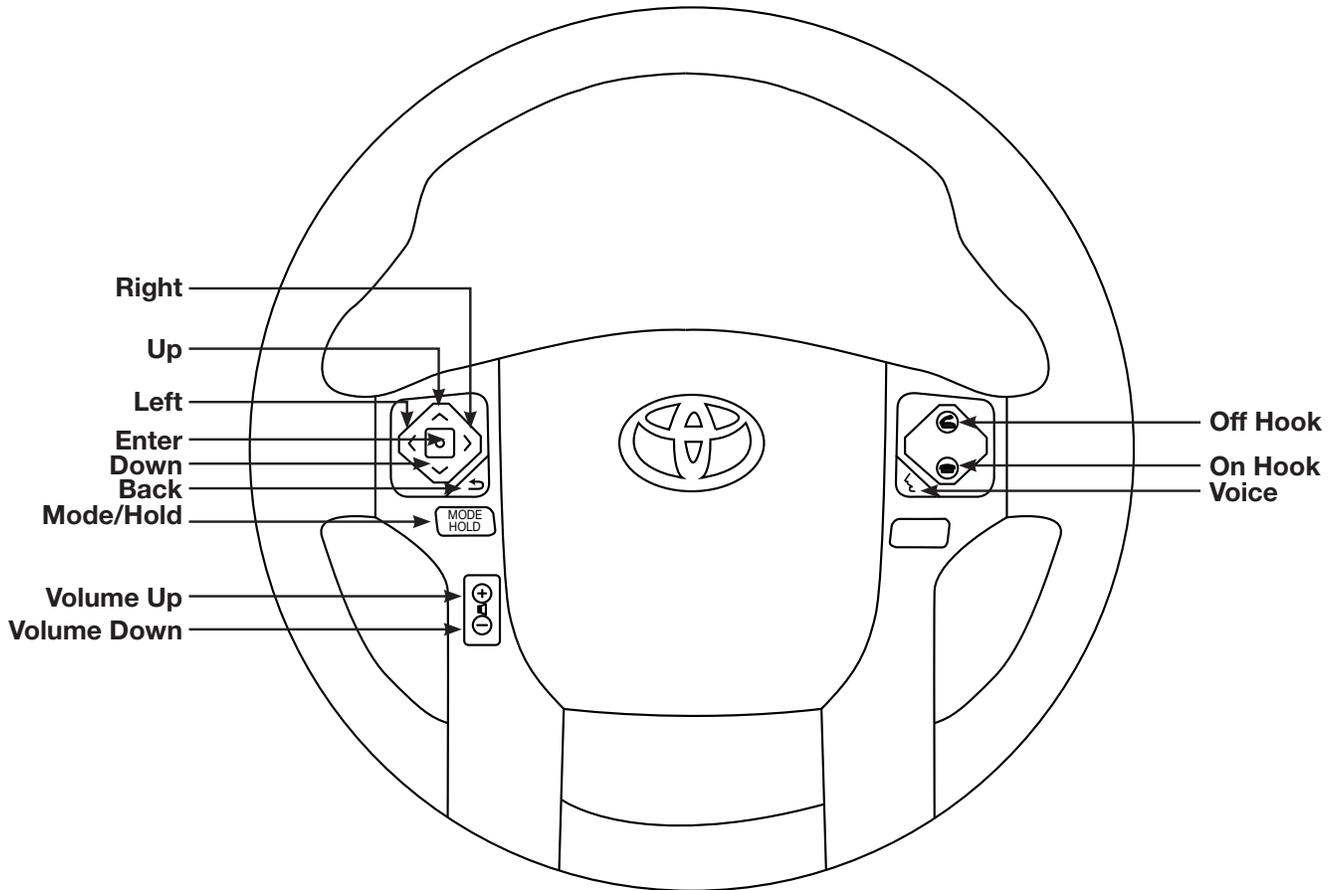
**Adding A Front Camera**



**Connection Of KAC-001 (Sold Separately)**



**Steering Wheel Configuration**



Button	Press Once	Press And Hold
Right	Display Guages Screen	None
Up	Seek +	Preset & Folder +
Left	Display Vehicle Screen Info	None
Enter	Phone Menu	None
Down	Seek -	Preset & Folder -
Back	Band	None
Mode/Hold	Source	None
Volume Up	Volume +	None
Volume Down	Volume -	Attenuation On/Off
Off Hook	Answer Call	None
On Hook	Hang Up & Reject Call	None
Voice	Voice or Siri	None

## Set Up Guide

- 1 Turn the vehicle's Ignition switch to ACC.
- 2 Turn ON the iLX-F309TND by pressing any key.
- 3 Select the user language and press OK.
- 4 Engage and release the parking brake twice (parking brake on, off, and back on).
- 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 KAC-001 (External Accessory Control Module) is present be sure to turn it ON in the SETUP MENU. (MENU/SYSTEM/EXTERNAL ACCESSORIES/EXTERNAL ACCESSORY CTRLR).
- 8 Vehicle information- Set the desired gauge information. (MENU/VEHICLE INFO/GAUGES/CAR SETTINGS).
- 9 NOTE: For all the product information please download the full owners manual in the support section of the website at [www.alpine-usa.com](http://www.alpine-usa.com).

## 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.	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	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 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 number is invalid.	Incorrect serial number is being used.	In the iLX-F309TND 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.

**Troubleshooting Guide Continued**

Symptom		Possible Cause	Remedy
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, power plate screw, or main harness are not connected.	Check for proper connection or disconnected pins.
5	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.
6	Cannot control the DVD Player properly.	The iLX-F309TND does not have remote wires.	The DVE-5300 (sold separately) can only be controlled by the wireless remote that is included with it.
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	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.
10	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.
11	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.
12	No output from RCA's.	Maestro module is flashed for amplified system.	Re-flash module for non-amplified system.
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