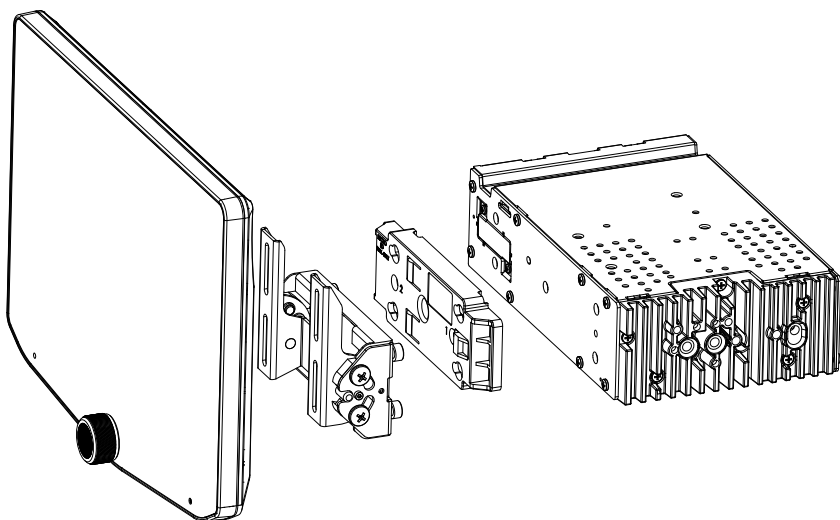


STH10JKX

2007-2018 Jeep Wrangler (JK) 10-Inch Modular Multimedia Package Installation Guide



NOTE! Read this installation guide thoroughly before disassembling the vehicle or making wire connections. Installation of this product requires technical skill, experience, and specialized tools. If you feel uncomfortable performing the steps outlined in this manual, please have this product professionally installed by an authorized Stinger Dealer.

A User Guide is available at
<https://stingersolutions.com/pages/horizon10-product-info>

Contents

Kit Components..... 3

Vehicle Disassembly..... 4

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Harness Connections.....12

GPS Antenna and USB.....14

Vehicle Installation.....15

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PRECAUTIONS

Disconnect the vehicle's negative battery cable before making any wire connections.

Protect all vehicle surfaces with tape or plastic.

Do not install components in any location that will hinder vehicle operation, such as steering wheel, gearshift, air bags, hazard switch.

Bundle cables and harnesses with electrical tape or wire ties to prevent them from interfering with moving parts.

Never attempt to disassemble or modify the product. Otherwise, an accident, fire or electric shock may result.

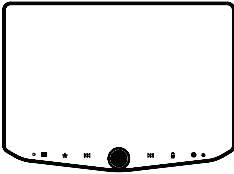
Exposed wires must be insulated with electrical tape. Otherwise, a short circuit, fire, or electric shock may result.

To prevent damage to the vehicle, confirm the locations of hoses, electrical wiring, and the fuel tank prior to drilling holes to install this product.

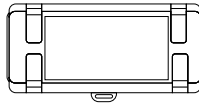
When it is necessary to replace the fuse, always use a fuse of the correct rating (number of amperes). Use of fuses with higher amperage ratings may cause a fire.

Kit Components

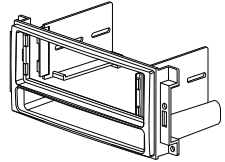
NOTE! This installation guide outlines basic installation. For any additional features, adding a rear camera or amplifier, please refer to the additional instructions included with each component.



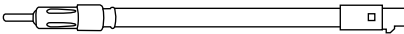
HORIZON10 (iX210)
10" Multimedia System



RP4-CH11
Jeep Radio Interface



CDK644
Radio Mounting Kit



EU06
Antenna Adapter



SSUSB3
Dual USB Extension

Recommended Tools

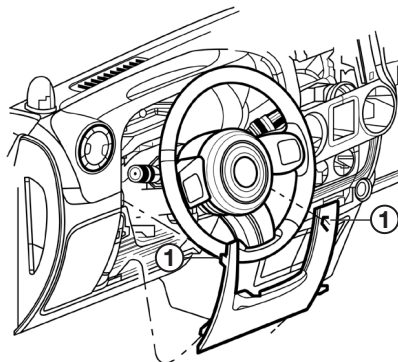
Plastic Trim Tool
7mm Socket
Socket Extension
Ratchet
Phillips Screwdriver

Wire Crimpers
Wire Strippers
Battery Terminal Wrench
Solder / Heat Shrink
Wire Connectors

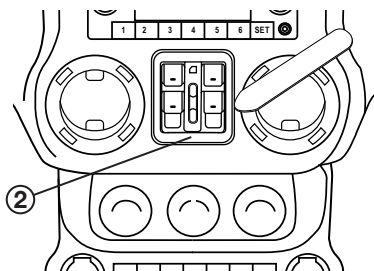
NOTE! Before starting disassembly, remove Negative Battery Cable.
Protect vehicle surfaces with removable tape and/or towels.
Place removed vehicle parts in a safe place.

Vehicle Disassembly (2011-2018)

1. Using a plastic trim tool, release the top left and right clips (1) and remove the knee bolster panel below the steering column.



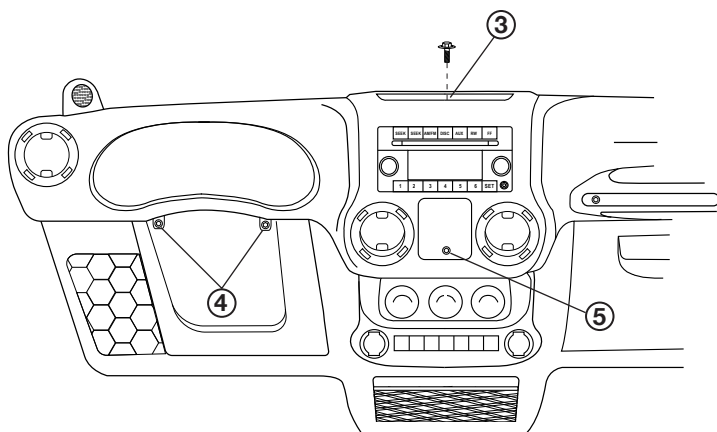
2. Using a plastic trim tool, gently pry to release and remove the power window switches or storage pocket below radio (2).



3. Remove storage bin mat on top of dash and remove the 7mm screw underneath (3).

4. Remove the two 7mm screws (4) from the bottom edge of the radio/instrument cluster trim panel on either side of the steering column.

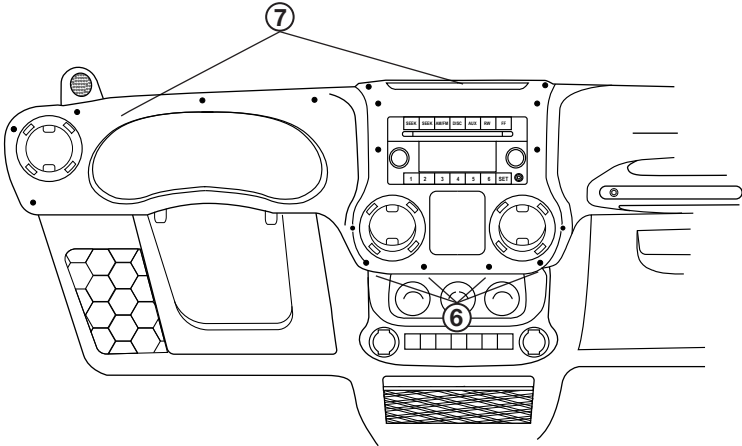
5. Remove the 7mm screw (5) inside the switch opening.



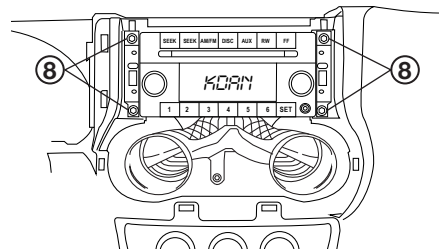
Vehicle Disassembly (2011-2018)

NOTE! Position the steering wheel in the full down position.

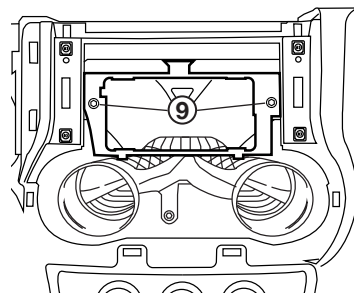
6. Starting below the radio, reach into the window switch opening and firmly grasp the lower bezel and carefully pull the bezel to release the lower retaining clips (6).
7. Using the storage pocket and area over the gauges, pull entire panel and release the remaining upper retaining clips (7).



8. Remove the four 7mm screws (8) securing the radio. Remove the radio and unplug all the connectors from the back of radio and set to the side.

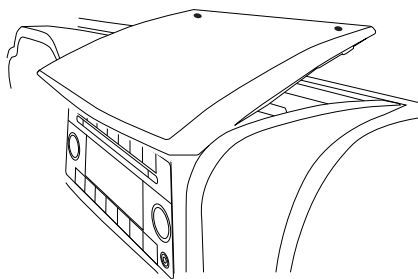


9. Remove the two 7mm screws (9) securing the metal bracket inside of the dash cavity and remove it.

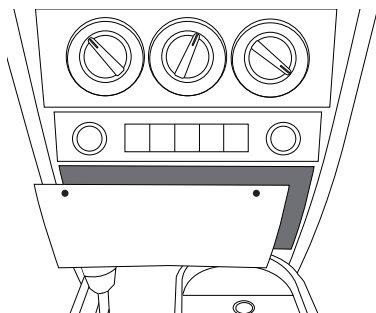


Vehicle Disassembly (2007-2010)

1. Using a plastic trim tool, release the retaining clips on rear left and right of the upper panel above the radio. Tilt the panel upwards to release the front edge. If equipped, unplug the module on the backside of the panel.

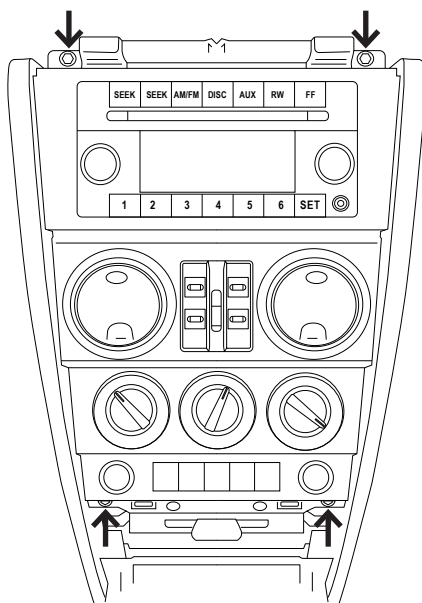


2. Using a plastic trim tool along the top of the lower center panel, gently pry to release the two retaining clips. Tilt downward and remove.



3. Using a 7mm socket, remove the two upper bolts securing the center panel.

Remove the two lower 7mm screws.



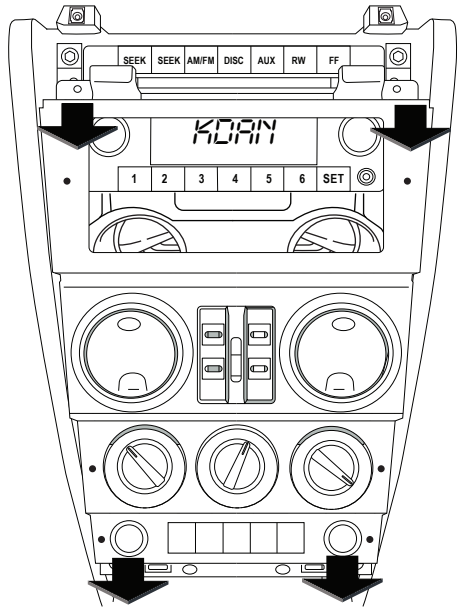
Vehicle Disassembly (2007-2010)

4. Using your hands, pull outward on the top of the center bezel to release the clips on both sides of the radio.

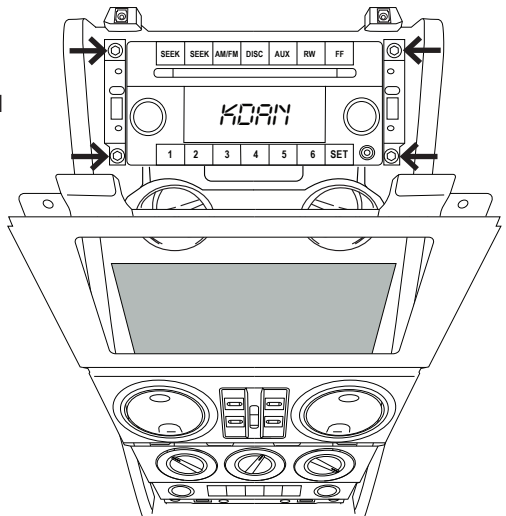
Pull outward on the bottom of the center bezel to release the lower clips.

Finally, pull outward on the top and bottom of the panel to release the remaining two middle clips.

NOTE: For this installation guide, all the cables and connectors for the switches and climate controls on the backside of the center panel will be left attached. The panel will simply be moved out of the way to remove and install the radio.



5. Remove the four 7mm screws securing the radio. Remove the radio and unplug all the connectors from the back of radio and set to the side.



Wiring & Connections

Parts Needed:

From the HORIZON10 Box:

26-Pin Power Harness

16-Pin Rear Camera Harness

14-Pin Data and Accessory Control Wire Harness (If vehicle is equipped with Steering Wheel Controls)

* Refer to the HORIZON10 Installation Guide for harness names and illustrations

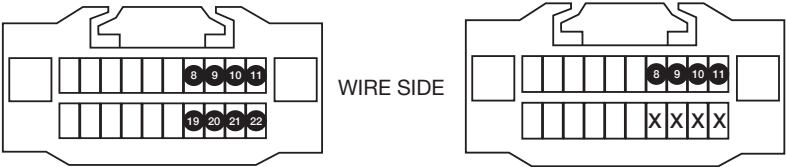
From the RP4-CH11 Box:

Main Harness RP4-CH11-B (Harness RP4-CH11-A will not be used in this application)

1. Determine if vehicle is equipped with a factory amplifier.

After the vehicle is disassembled, and before making any wire connections, determine if the vehicle has a factory amplifier by comparing the vehicle's radio plug to the diagrams below.

Inside the vehicle, locate the Gray 22 Pin plug that was unplugged from the factory radio. With the locking tab facing up and the wire side facing towards you, compare the vehicle plug to the diagrams below.



If there are 4 wires in pin locations 8-11 and 4 wires in pin locations 19-22, there is no factory amplifier.

Wiring Connections Without
Factory Amplifier (See page 9, step 2)

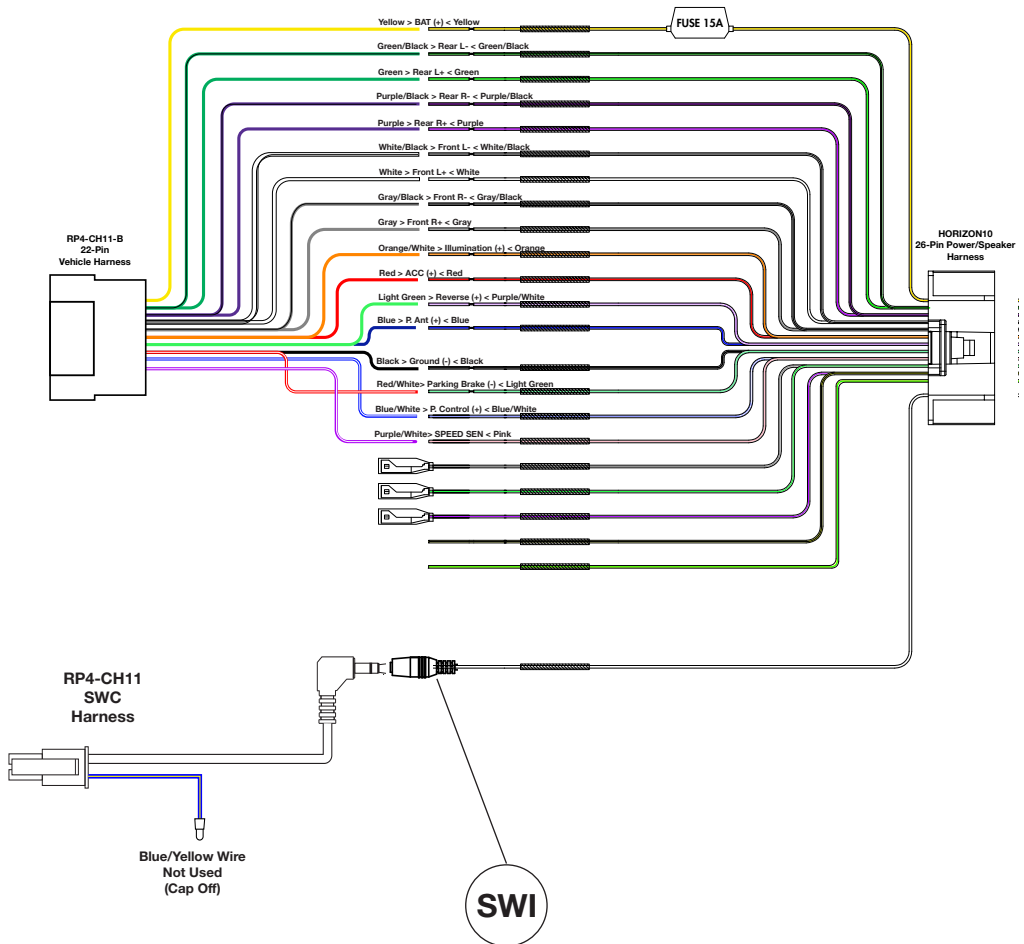
If there are 4 wires in pin locations 8-11 and no wires in pin locations 19-22, there is a factory amplifier.

Wiring Connections With
Factory Amplifier (See page 10, step 3)

Wiring & Connections

2. Wiring Connections Without a Factory Amplifier.

Following the diagrams below, connect the wires from the HORIZON10 harnesses to the RP4-CH11 harnesses as shown. The majority of the wire connections will match color-for-color. All wire connections should be made regardless if the feature is being used. For example, connect the reverse and amplifier wires even if no camera or amplifier are being installed. This will prevent unconnected wires from possibly shorting out.

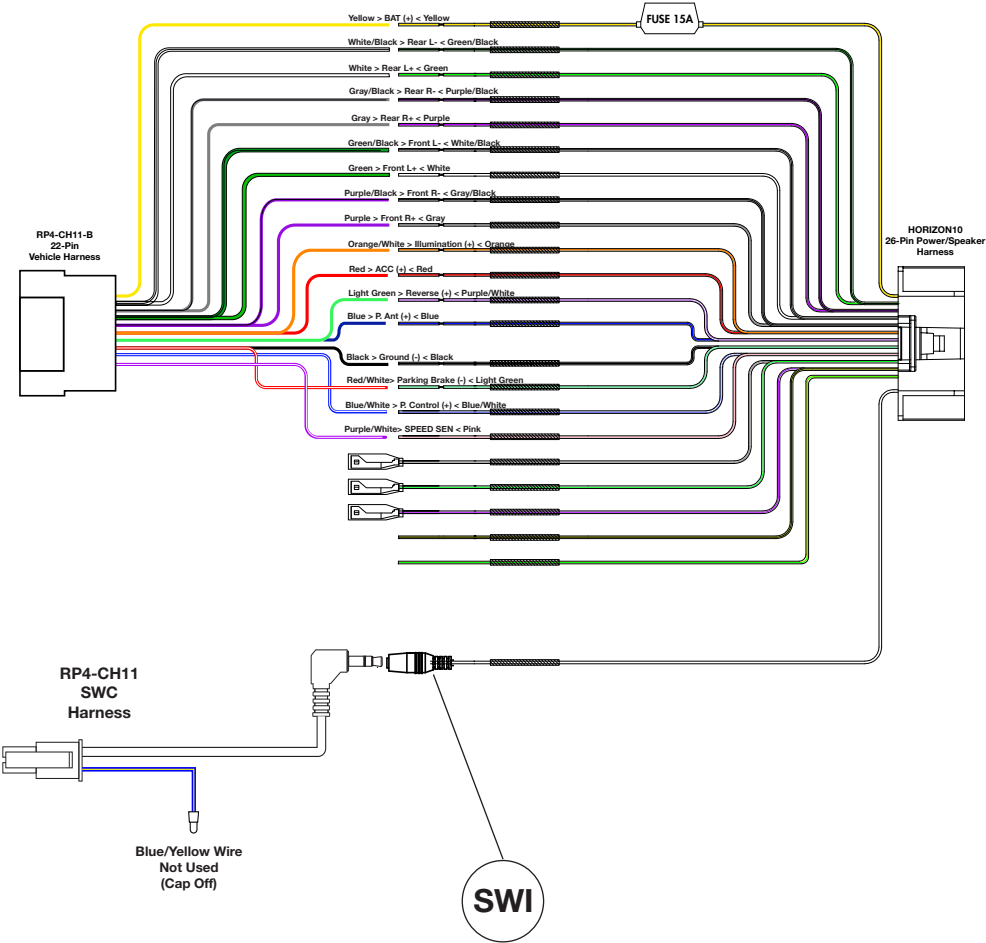


Note: Do not connect the reverse wire in manual shift vehicles.

Wiring & Connections

3. Wiring Connections With a Factory Amplifier.

Following the diagrams below, connect the wires from the HORIZON10 harnesses to the RP4-CH11 harnesses as shown. For factory amplified vehicles, the front and rear speaker wires will be swapped. All wire connections should be made regardless if the feature is being used. For example, connect the reverse and amplifier wires even if no camera or amplifier are being installed. This will prevent unconnected wires from possibly shorting out.

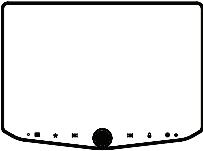


Note: Do not connect the reverse wire in manual shift vehicles.

Radio & Display Assembly

Parts Needed:

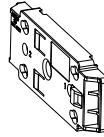
From the HORIZON10 Box:



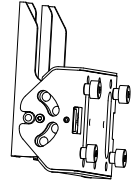
HORIZON10 Display



Radio Module



Nose Bracket



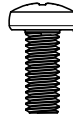
Display Bracket



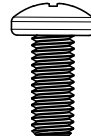
M2.6 X 6.5 Screws



M3 X 6 Screws



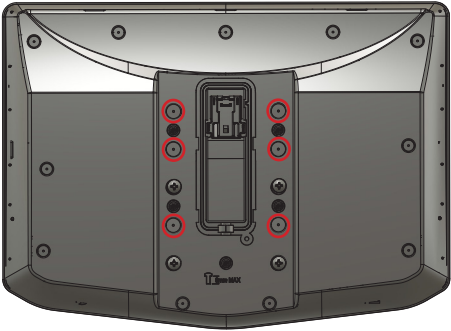
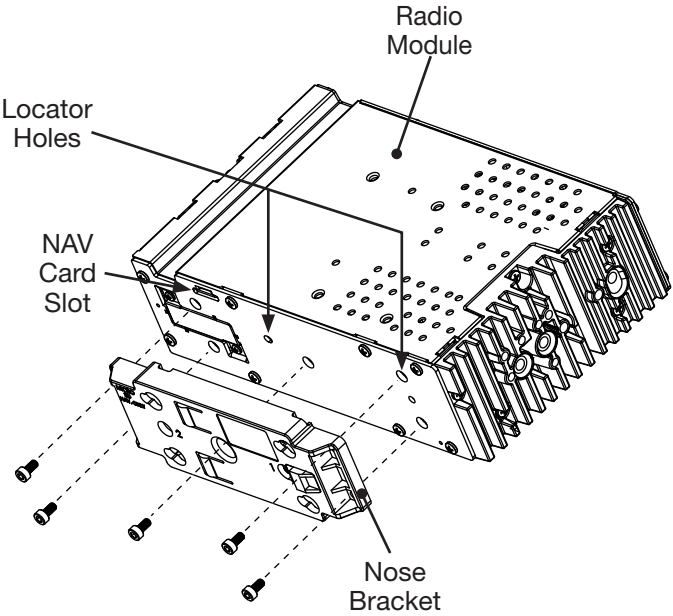
M4 X 10 Screws



M5 X 10 Screws

Radio & Display Assembly

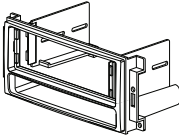
Align the Nose Bracket onto the Radio module where the NAV Card Slot lines up. Use the 2 locator pins on the back of the Nose Bracket to line up with the 2 holes on the front of the radio module. Install the 5 M3 X 6 Screws.



Insert the 6 Waterproof Plugs into the back of the HORIZON10 display in locations circled in red.

Attaching Side Brackets

Parts Needed:

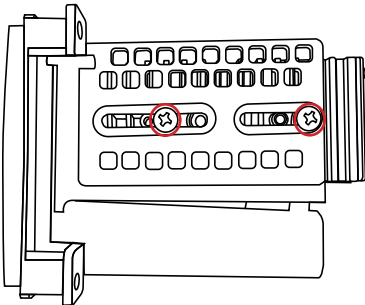
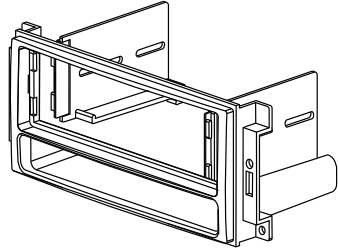


CDK644
Installation Kit



M5 X 10
Screws (4)

Attach the left and right brackets to the dash kit using the (4) M5 X 10 Screws

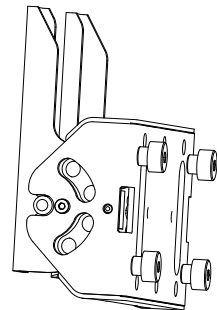
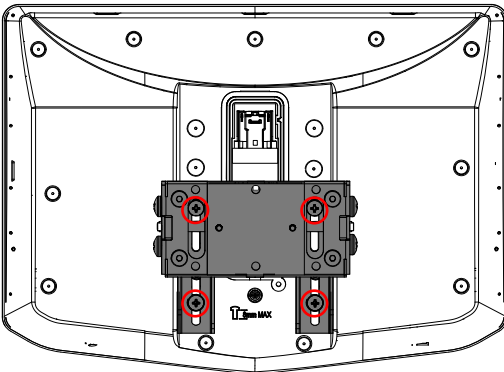


Slide the Radio Module into the assembled dash kit. Use the 4 M5 x 10 screws to hold the radio in place for the left and right sides.

NOTE:

The radio module screws can be loosened to slide the radio forward or backward for your desired viewing angle

The screw mount location has been set for a 90 degree viewing angle.



Display Bracket

Attach the LCD Bracket to the back of the display using the 4 M5 X 10 Screws. Only finger tighten the screws where the bracket can slide up and down.

Harness Connections

Parts Needed:

From the HORIZON10 Box:

LVDS Display Video Cable

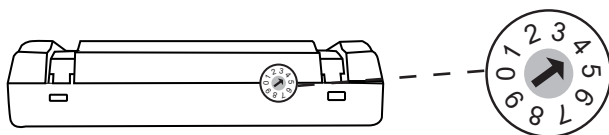
From the RP4-CH11 Box:

Control Module

EU06 Antenna Adapter

3 Harnesses from Step 2/3

Using a small flat blade screwdriver or similar, set the dial on the side of the RP4-CH11 module to Number 4. Remove the sticker covering the 16 Pin plug. **ENSURE THIS IS DONE PRIOR TO CONNECTING RP4-CH11-B HARNESS.**

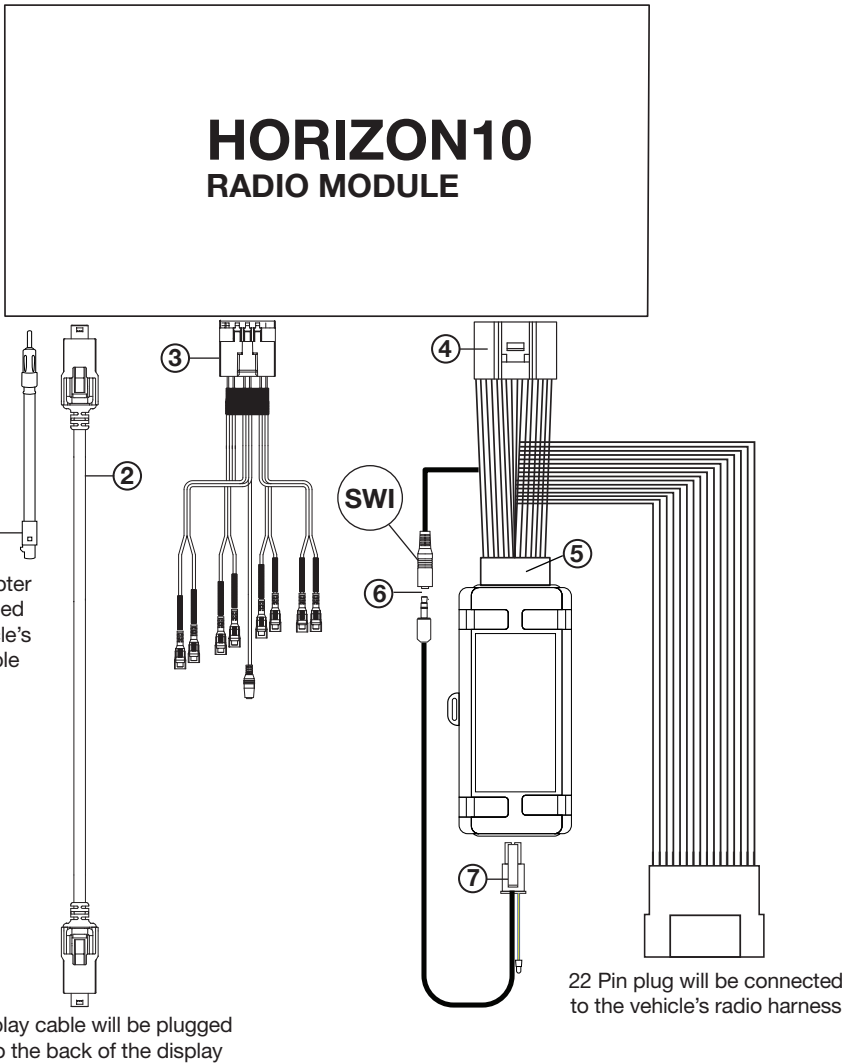


Referring to Fig C at right, make the following connections:

1. Plug the EU06 Antenna Adapter into the antenna connector
 2. Plug in the LVDS Display Cable into the Radio Module
 3. Plug in the 16-Pin Camera Harness
 4. Plug in the 26-Pin Power/Speaker Harness
 5. Plug in the 16-Pin Interface Harness into the RP4-CH11 module
- If the vehicle is equipped with Steering Wheel Controls**
6. Plug in the 3.5mm headphone jack into the female 3.5mm marked SWI
 7. Plug in the 4-Pin SWC Harness into the RP4-CH11 module

NOTE! These are the connections for the basic installation, there are additional harnesses included with the HORIZON10 kit (Amplifier, Camera, Aux). If not being used, it is recommended to save these as they might be needed in the future.

FIG C



GPS Antenna

Parts Needed:

From the HORIZON10 Box:

GPS Antenna

Metal Mounting Plate

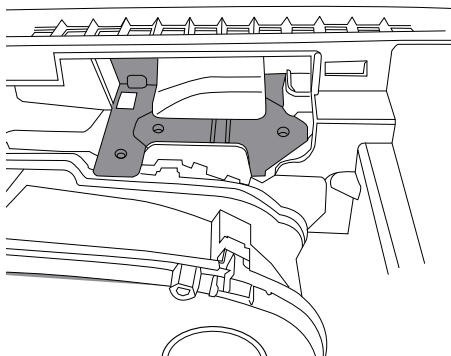
Before installing the radio into the vehicle, mount the GPS Antenna and USB hub. The GPS antenna is required for proper operation of Apple CarPlay and Android

2011-2018 Models:

In between the defroster vents and the gauges, there is a plastic mounting area that is used to mount the factory GPS antenna.

Clean the area and stick the metal mounting plate. Position the GPS antenna on the plate and route the GPS antenna cable down to the radio opening. Bundle and zip-tie the additional slack.

2011-2018 Models



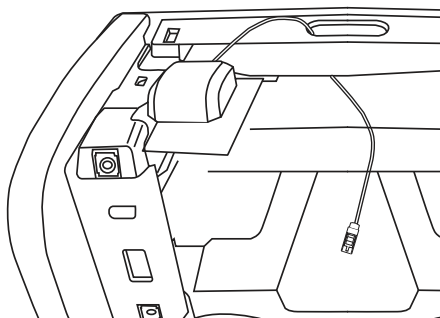
2007-2010 Models:

On the left, above the radio opening there is a flat mounting area. The metal mounting plate will need to be trimmed to fit the area.

NOTE: If the mounting plate is not trimmed, it will prohibit the top trim panel from fitting.

Clean the area and stick the metal mounting plate. Position the GPS antenna on the plate and route the GPS antenna cable down to the radio opening. Bundle and zip-tie the additional slack.

2007-2010 Models

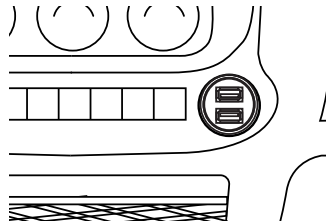
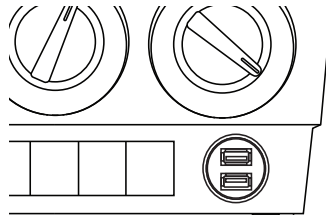


Parts Needed:

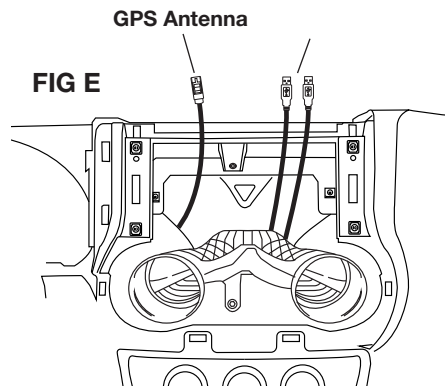
SSUSB3 Dual USB Extension

Apple CarPlay, Android Auto, and any Firmware Updates require access to a USB ports. The SSUSB3 is designed to extend the USB ports on the back of the HORIZON10 to where they are accessible once the radio is installed.

For this installation, one of the factory 12V power outlets will be replaced with the SSUSB3. You may chose to follow these steps, or mount the USB port somewhere else in the vehicle.

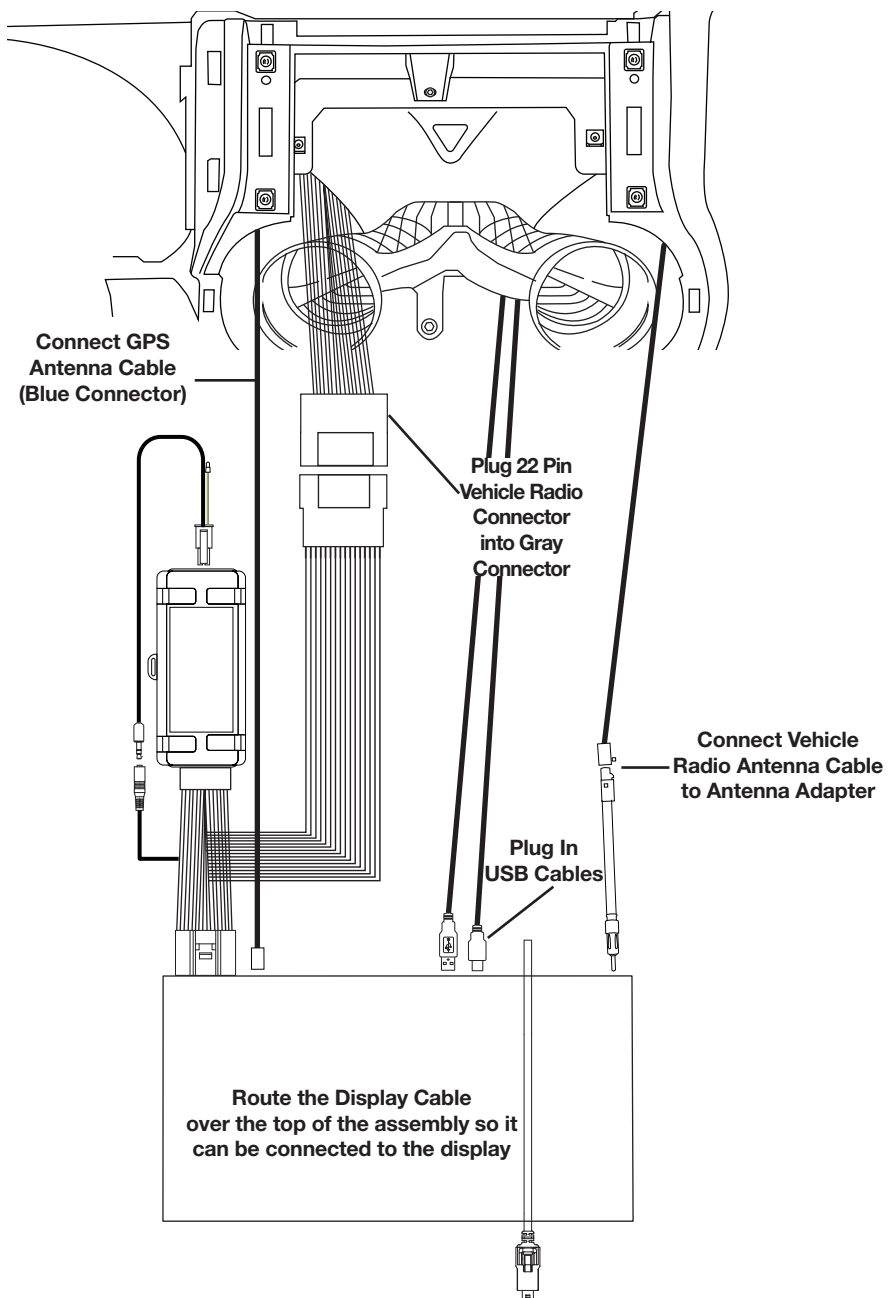


Once the USB ports are mounted, route the cables to the radio opening.



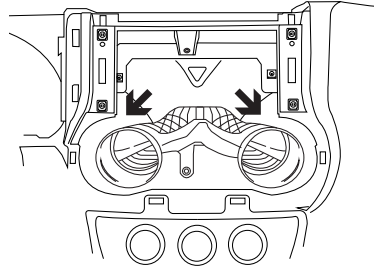
Vehicle Installation

Inside the vehicle, with the complete radio assembly and harnesses, make the following connections.

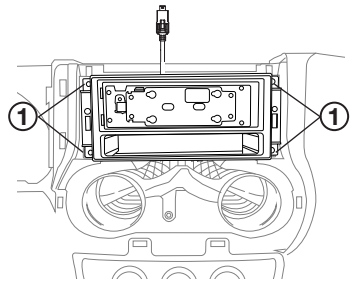


After all connections are complete, all excess wire, plugs, and the RP4-CH11 module need to be positioned on the left and right side of the air ducts (FIG F). The center area directly behind the radio needs to be kept clear so the radio assembly will fit.

FIG F



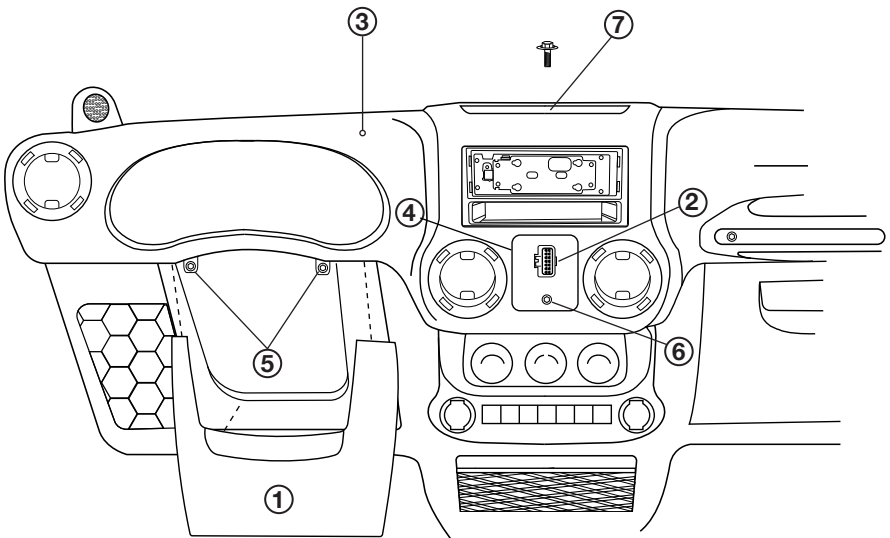
With the display cable routed over the top of the assembly, slide the radio assembly into the dash and align the four mounting tabs on the side brackets. Reinstall the four 7mm screws (1).



NOTE: The vehicle sub-dash and radio cavity shown is 2011-2018 model year. The steps are the same for 2007-2010, it just looks a little different.

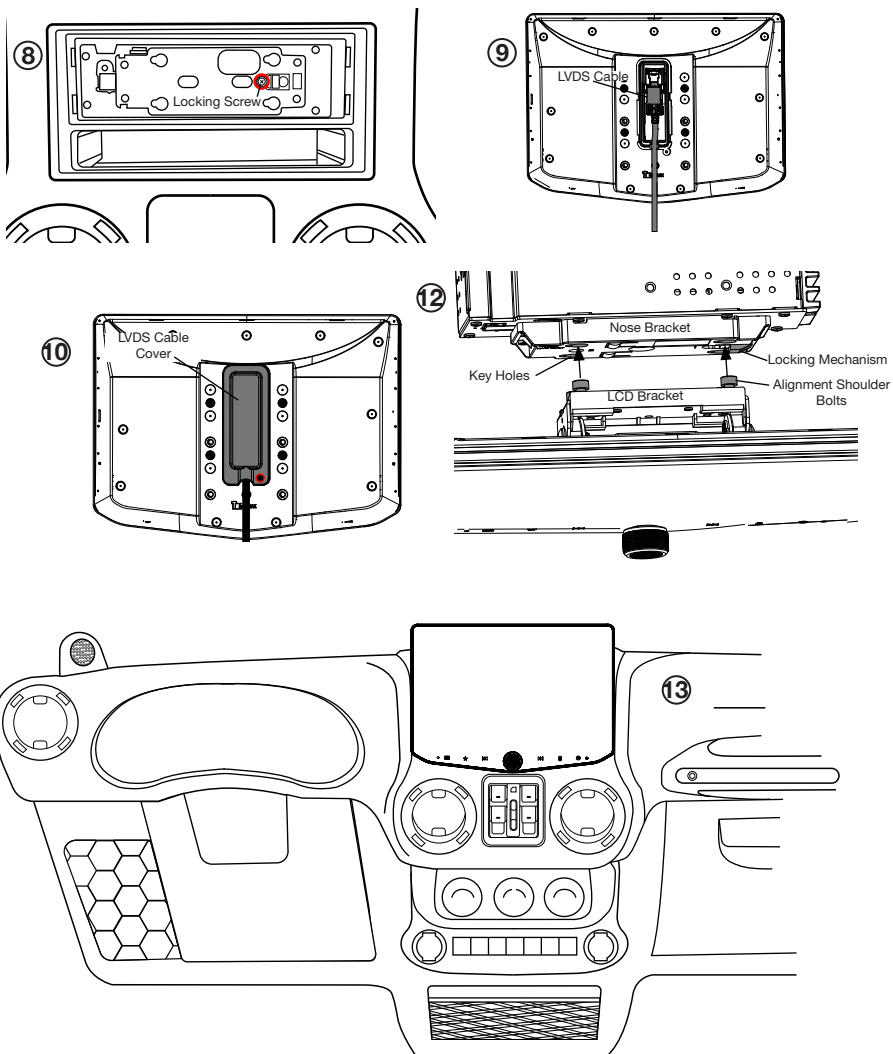
Vehicle Reassembly 2011-2018

1. Position the Instrument Cluster/Radio Bezel (3). If equipped, locate the power window switch connector and pull through the switch opening (4). Align the bezel clips, push and fully seat all clips.
2. Install two 7mm screws left and right of steering column (5).
3. Install 7mm screw in the window switch/pocket opening (6).
4. Install 7mm storage bin screw (7) and then replace the bin mat.
5. Reinstall the knee bolster panel (1) by aligning the two bottom tabs into lower slots and then locking the top clips on both sides of the steering column.
6. If equipped, plug in the power window switch connector and reinstall the switch assembly into the dash bezel (2).
7. Install the 7mm screw and re-install the top cover.



Vehicle Reassembly 2011-2018

8. Remove the M3 X 5 locking screw from the Nose Bracket.
9. Plug in the HORIZON10 LVDS cable to the back of the LCD Panel.
10. Slide the LVDS Connector cover onto the display and secure with the M2.6 X 6.5 Screw.
11. Tighten all 4 M5 X 10 Screws on the back of the LCD Bracket.
12. Align the keyhole on the Display Bracket and the Nose Bracket.
13. Slide the LCD assembly to the right to lock the display in place until you hear a 'Click' sound.



For HORIZON10 removal instructions, refer to the HORIZON 10 Install Guide, Pg 20.

Vehicle Reassembly 2007-2010

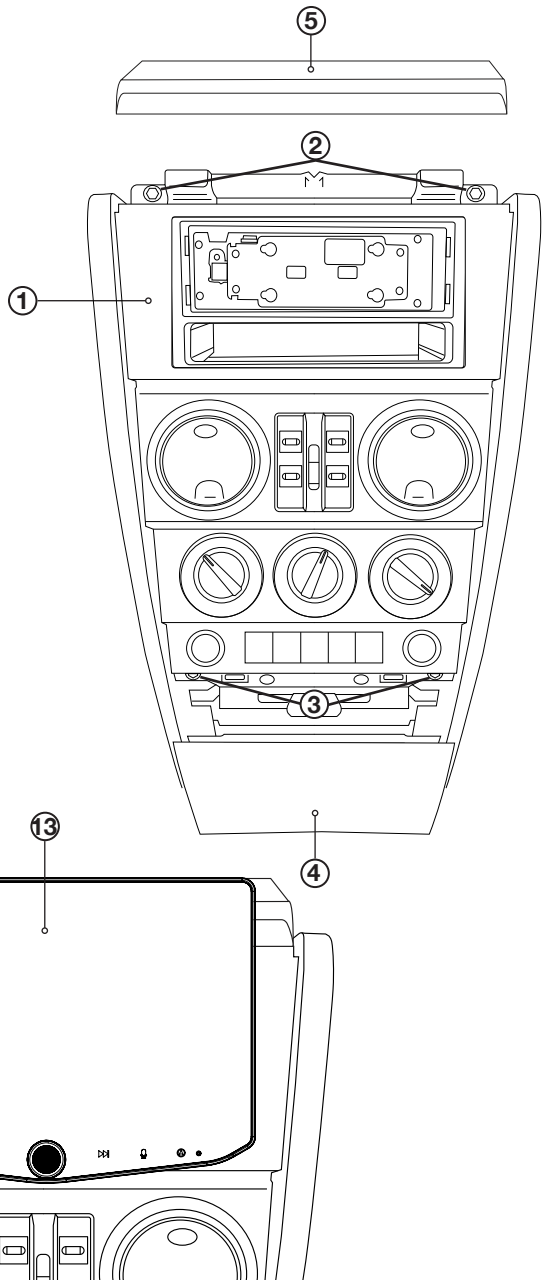
1. Align the main center panel (1) and push to seat all retaining clips.

2. Install two 7mm screws (2) in the upper center panel locations.

3. Install two 7mm screws (3) in the lower center panel locations.

4. Install the lower panel (4) by aligning the bottom tabs first, then snapping the upper clips into place.

5. Reconnect the module on the backside of the top panel (5) if equipped. Follow steps 8-13 for the LCD attachment.



For HORIZON10 removal instructions, refer to the HORIZON 10 Install Guide, Pg 20.

Function Test

It's recommended to check all functions and features before reassembling the vehicle.
Reconnect the Negative Battery Cable if removed.

The HORIZON10 User Guide can be found at:
<https://stingersolutions.com/pages/horizon10-product-info>

There is a troubleshooting section at the end of the User Guide.

Start the vehicle, unit should power on.

Check AM/FM reception.

Check all Buttons and Volume/Power Knob.

Press the HOME BUTTON and select SETTINGS > SOUND SETTINGS
to access the audio settings. Check to make sure audio is playing through
all speakers using Balance and Fade.

Press the HOME BUTTON and select PHONE, then SETTINGS. If the External
Microphone was installed, change Microphone to EXTERNAL. Pair a phone and
make a test call. (Page 6 in User Guide)

Select BT Music and play audio from paired device

Engage parking brake and insert a USB thumb drive with Audio and Video
files into the USB A Port. Select USB as the source and check audio
and video playback. Switch to the USB C port and check wired Apple CarPlay
and/or Android Auto.

If vehicle is equipped with Steering Wheel Controls, confirm radio is responding
when buttons are pressed.

If vehicle is equipped with Rear Camera, place in reverse and confirm camera
operation. If no camera has been installed, press the HOME BUTTON, then
select SETTINGS, then CAMERA SETTINGS and set CAM 1 TRIGGER to OFF.
Place vehicle in reverse and confirm display does not turn off in reverse.

Need Help?

You can reach Technical Support via Phone, Email or Chat.

Phone: 727-592-5991

Email: support@stingersolutions.com

Chat: stingerelectronics.com

Tech Support Hours:

Mon-Fri 9AM-8PM EST

Sat 9AM-3PM EST

Notes

Notes



15500 Lightwave Drive, Suite 202
Clearwater, Florida 33760

CUSTOMER SOLUTIONS:

800-477-2267

Mon-Fri 9AM-8PM EST

customersolutions@aampglobal.com

TECHNICAL SUPPORT:

727-592-5991

Mon-Fri 9AM-8PM EST

Sat 9AM-7PM EST

support@aampglobal.com

AGREEMENT: End user agrees to use this product in compliance with the instructions and terms of use and with all State and Federal laws. STINGER provides instructions and safety warnings with respect to this product and disclaims all liability for any use not in conjunction with those instructions or other misuse of its product. If you do not agree, please discontinue use and contact STINGER. This product is intended for off-road use and passenger use only.