

Stinger ix210 HORIZON10 / HEIGH10+

SR-F15009HX
Radio Replacement Kit
for 2009-2014 Ford F-150 Trucks

Introduction and Features

The SR-F15009HX is a complete radio replacement kit for the installation of the Stinger ix210 modular radio in Ford F-150 trucks equipped with either correct radio types this works with. All modules, cables and adapters are included to retain important features of the factory system, including: steering wheel-mounted radio controls, factory amplifier, AM/FM reception. Plug & Play wiring harnesses allow for quick and easy installation without the need to cut or splice any wiring. The display mounting panel allows mounting the 10 inch display without modifying/cutting any part of the vehicle's sub-dash.

Important Notes

We recommend reading this manual thoroughly to familiarize yourself with the entire process prior to beginning the installation.

1. Adjustment of the vehicle settings through the original radio's vehicle settings menu will be disabled after installation of the new radio. It is advised to make sure all settings are as you desire prior to removal of the original radio.
2. The RP4-FD11 does not retain Rear Seat Entertainment, or Ford Sync.
3. To retain SiriusXM Radio, a SXV300 Tuner is required and sold separately. Not applicable to HEIGH10+.
4. After installation, if you do not initially hear any audio, you may need to cycle the ignition again to initialize the factory amplifier.
5. Factory amplified Systems will not fade as neither the aftermarket radio or the RP interface have the ability to control the amplifier's fader.
6. The radio select rotary switch on the side of the interface must be adjusted to the proper radio setting before plugging the interface into the vehicle.
7. The interface comes pre-programmed for all of the vehicles factory SWC functions and does not require programming unless you wish to re-assign the SWC functions or utilize short press long press dual command functionality. The SWC can always be restored to default settings by pressing and releasing the program button on the side of the interface once and waiting 7 seconds for the LED to flash 4 times.
8. The LED will flash whenever a SWC button is pressed.

Recommended Tools

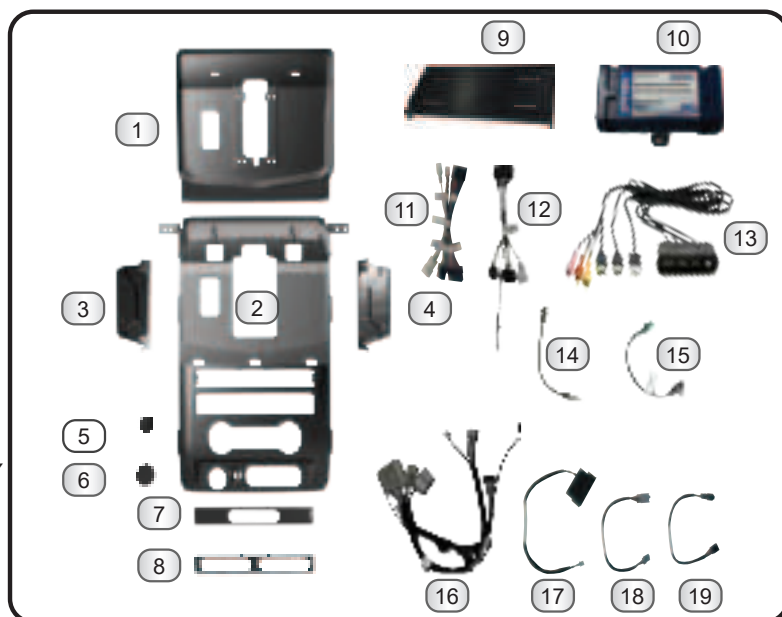
7mm Socket
8mm Socket
Ratchet

Phillips Screwdriver
T-20 Torx
Small Flat Screwdriver

Flush Cutters
Plastic Pry Tool
Pick Tool

Included Components

1. **Display Mounting Panel**
2. **Main Frame**
3. **Side Bracket Left**
4. **Side Bracket Right**
5. **Main Frame Bolt Cover**
6. **Cig Light Cover**
7. **Switch Insert 1**
8. **Switch Insert 2**
9. **Module Bracket**
10. **Radio Interface (RP4-FD11)**
11. **UN1810 Harness (SR-SRK-ADAPT-UN1810 V1)**
12. **IX210 Harness (SR-SRK-ADAPT-IX2XX V1)**
13. **Media HUB (USBCHUB-CH1B-RCA-24 V1)**
14. **AM/FM Antenna Adapter (BAA20)**
15. **Satellite Radio Antenna Adapter (SAT-01) *HORIZON10 ONLY**
16. **Main Harness 2019-2021 (SR-F15009H-HAR V2)**
17. **Sync Harness (SR-F15009H-HAR V1 (SYNC SWC))**
18. **SR-F15009H-HAR (6P EXT 1)**
19. **SR-F15009H-HAR (6P EXT 2)**



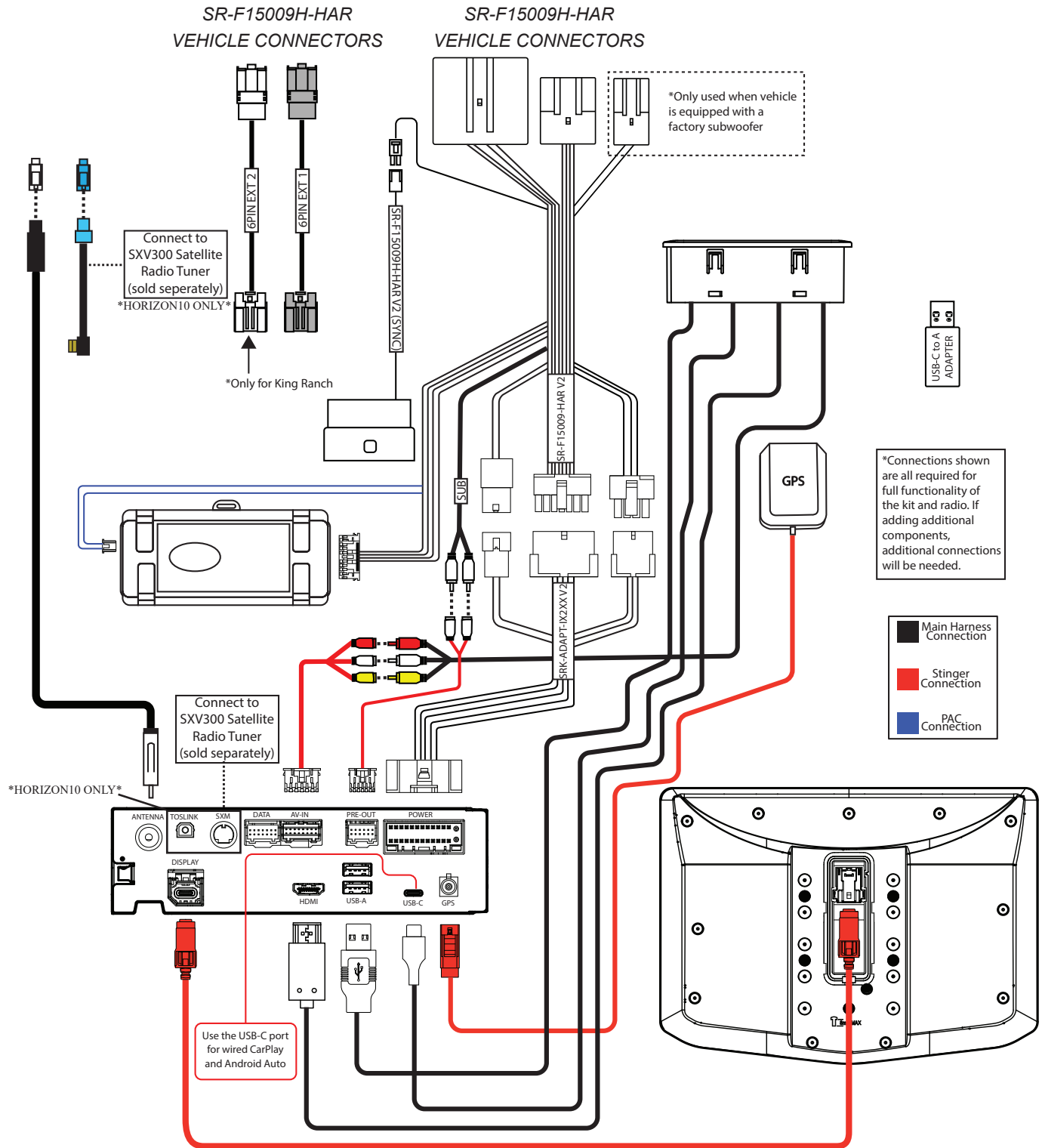
Included, zip ties and M4 x 12 Zinc Screws (6x) not shown.



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Wiring Overview



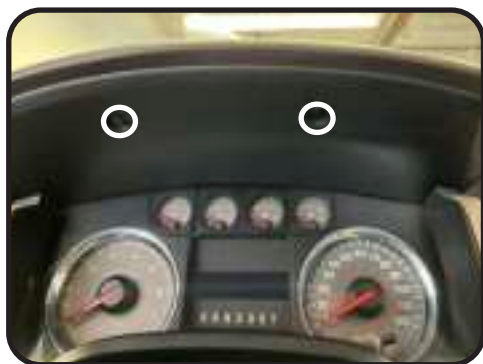
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This installation manual will cover the necessary order of procedures to complete the installation efficiently and to avoid redoing any steps. The order will be as follows; Disassembly, In-Vehicle Harness Connections, Display Mounting Panel Preparation, Radio Module Preparation, Interface and Main Harness Connections, In-Vehicle Connections, and Radio Unit Installation. The installation steps shown are all required for the full functionality of the radio. If adding additional components; cameras, amplifiers, satellite radio, etc., additional steps and harnesses will be needed.

Section 1: Disassembly

Before removing the factory radio make sure all vehicle settings are set to the desired settings.



Step 1

Remove the (2) 7mm bolts holding the instrument cluster bezel.



Step 2

With a plastic pry tool, slide the pry tool into the right side of the bezel working towards the left to release the clips.



Step 3

Pull forward on the left side of the instrument cluster bezel, releasing the clips holding it in place.



Step 4

Put the vehicle in neutral making sure the parking brake is set. Pull forward on the right side of the bezel, releasing the clips holding it in place, and remove the bezel.



Step 5

Pull forward on the left side bezel, releasing the clips.



Step 6

Once the bezel is loose disconnect the 4-wheel drive switch.
NOTE: The 4 wheel drive switch will not be present in 2-wheel drive vehicles.



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Section 1: Disassembly cont,



Step 7

Open the glove box. Press in on the back left and right of the glove box to release the locking tabs.



Step 8

Once the locking tabs are pressed in on the glove box, drop down the glove box.



Step 9

Locate the (3) 8mm screws securing the passenger side airbag inside the glove box cavity facing upward, and then remove them.



Step 10

With a plastic pry tool, slide the tool into the bottom right side lip of the air bag, working from right to left release the rubber clips holding the air bag.



Step 11

With the airbag released, slide the airbag to the right to expose the 7mm screw.
Remove the 7mm screw.

NOTE: Do not disconnect the airbag



Step 12

With your hand, pull forward on the bottom of the plastic bezel, releasing the plastic clips.

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Section 1: Disassembly cont,



Step 13

Pull forward on the plastic bezel, releasing the clips holding the bezel in place.



Step 14

Disconnect the 12V power port connector.



Step 15

With a plastic pry tool, remove the Ford Sync USB panel.



Step 16

Remove the 7mm screw holding the radio bezel.



Step 17

With a plastic pry tool, remove the rubber pad located in front of the information display.



Step 18

Remove the (2) 7mm screws.

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Section 1: Disassembly cont,



Step 19

With a plastic pry tool, release the clips on the left of the radio bezel.



Step 20

With a plastic pry tool, release the clips on the right of the radio bezel. Remove the radio bezel.



Step 21

With the radio bezel removed disconnect the small back connector.



Step 22

Disconnect all connectors from the back of the radio bezel. Set the radio bezel aside, this will be needed later.



Step 23

Remove the (4) 7mm screws securing the radio.



Step 24

Disconnect all the connectors plugged into the radio, and then remove the radio.



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Section 1: Disassembly cont,



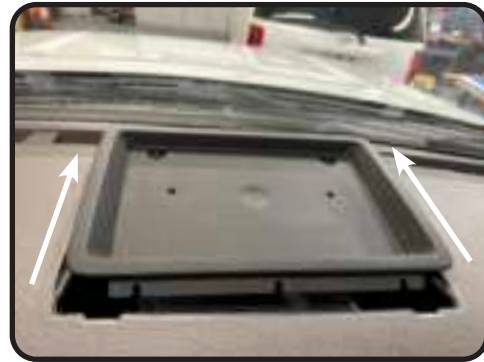
Step 25

With a plastic pry tool remove the rubber pad located on the top of the dash.



Step 26

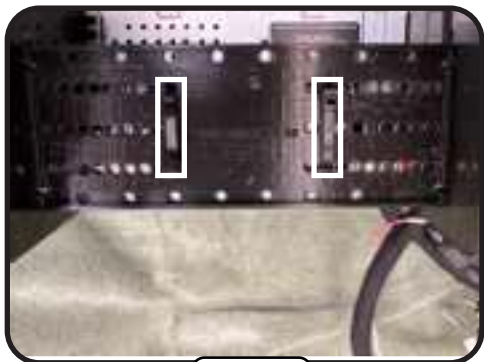
Remove the (2) 7mm screws. Slide a plastic pry tool into the back of the plastic panel. Pry upwards to release the clips.



Step 27

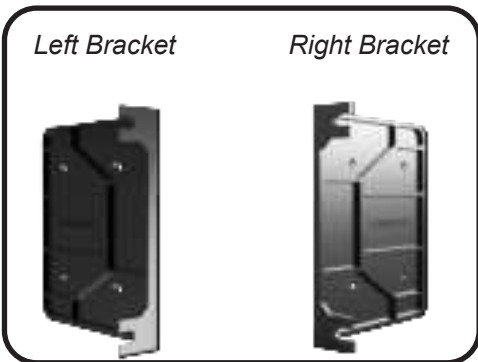
Once the panel is loose, slide the panel toward the front of the vehicle to remove the panel.

Section 2: Radio Module Preparation



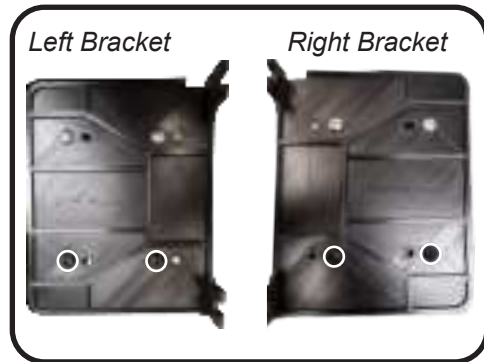
Step 1

Using the supplied zip ties from the SR-F15009HX kit, mount the RP4-FD11 module to the Module bracket.



Step 2

Locate the left and right side brackets and (4) M5X10 screws included with the SR-F15009HX kit.



Step 3

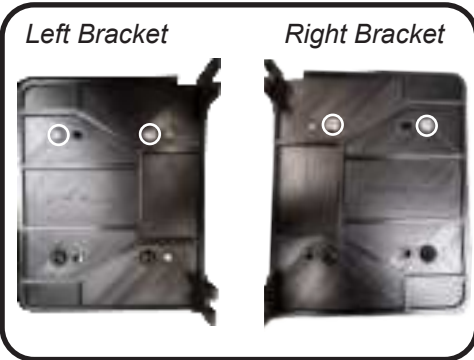
Align the radio module with the bottom holes of the brackets. Use (4) M5x10 screws to mount the module.



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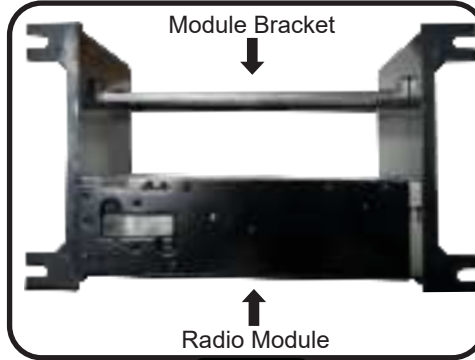
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Section 2: Radio Module Preparation



Step 4

Align the module bracket with the top holes of the side brackets. Use the (4) 10x3/8 screws to mount the bracket.



Step 5

Note: The ix210 Module should be flush with the front of both brackets.

Section 3: Interface Connections



Step 1

Set the dial on the RP4-FD11 interface to number 4.
Remove the warning sticker covering the 16-pin plug on the end of the interface.

Section 3: Interface and Main Harness Connections

Step 2

Connect the **Radio Harness Adapter (SR-SRK-ADAPT-IX2XX)** to the **Main Harness (SR-F15009H-HAR V2)**.



Step 3

Connect the 16-pin and 4-pin connectors on the SR-F15009H-HAR V2 Main Harness to the RP4-FD11 interface module.



Step 4

Insert the **Radio Harness Adapter** 26 pin connector into the "Power" connector (1) on the **ix210 Radio Module**. The "PAC-LINK (PL1)" 3 pin connector will not be used.



Step 5

Connect the **12 Pin Camera Harness(2)**, and the **16 Pin A/V Harness (3)** to the "AV IN" connection on the back of the **ix210 Radio Module**.



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Section 4: In-Vehicle Harness Connections and Preparation



Step 1

Unclip then unplug the 54-pin harness from the Sync module.



Step 2

Connect the harness SR-F15009HX-HAR V1 (SYNC SWC) to the 54-pin connector.



Step 3

Run the 2-pin connector from step 2 behind the display and out the radio opening.

Section 5: Disassembly of the Radio Bezel



Step 1

Remove (4) Torx T-20 screws securing the climate control panel to the bezel, and then remove. These screws will be reused in Main Frame Assembly.



Step 2

The climate control panel will need to be transferred to the Main Frame of the SR-F15009HX kit.



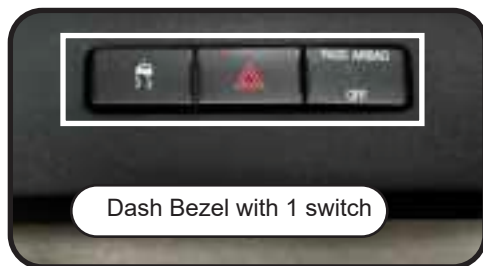
Step 3

Remove the power outlet by releasing the two retaining clips with a small pick tool and then pushing out the front side. Remove the plastic ring from the bezel.

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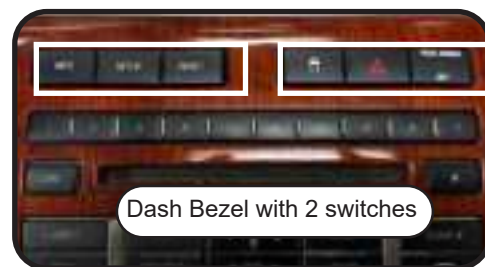
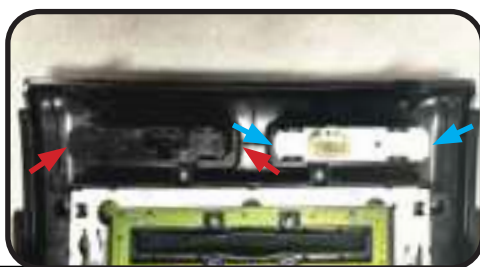
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Section 5: Disassembly of the Radio Bezel cont;



Step 4

Remove the switch panel by pushing on the back of the panel and pushing in the left and right tabs to release it.



Step 5

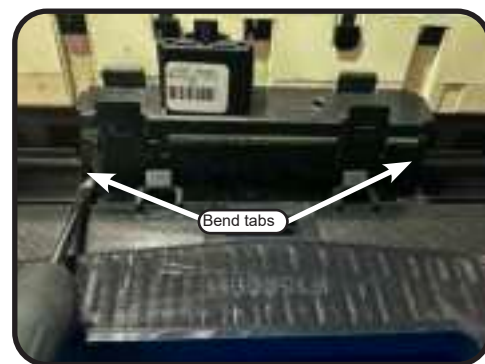
Remove the two switch panels by pushing on the back of the switch panel, and pushing in the left and right tabs to release.

Section 6: Main Frame Assembly



Step 1

Attach switch inserts 1 or 2 with the supplied M3x8 screws from the SR hardware kit.
Insert the switch panel from the radio bezel into the switch insert.
NOTE: The image shows Switch Insert 1, follow the same instructions for Switch Insert 2.



Step 2

If the switch seems loose, you can use a small flathead screw driver and bend the 2 tabs on the sides of the switch.



Step 3

Secure the climate control panel to the Main Frame Assembly using (4) T-20 Torx screws removed in disassembly.



Step 4

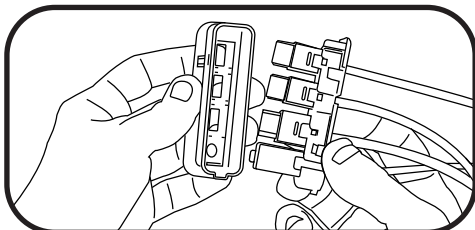
Using the parts removed from disassembly, insert the plastic power port ring, then insert the power port into the main frame.



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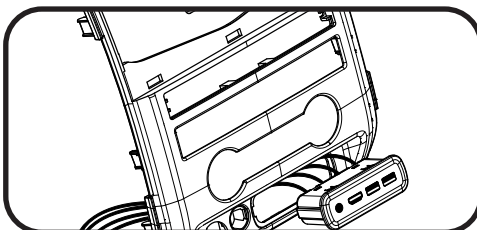
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Section 6: Main Frame Assembly cont;



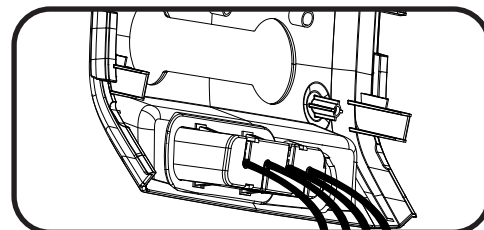
Step 5

Referencing the front cover, install the four cable ends into the back section of the USBCHUB-CH1B-RCA-48 media hub. Align and snap both sections together.



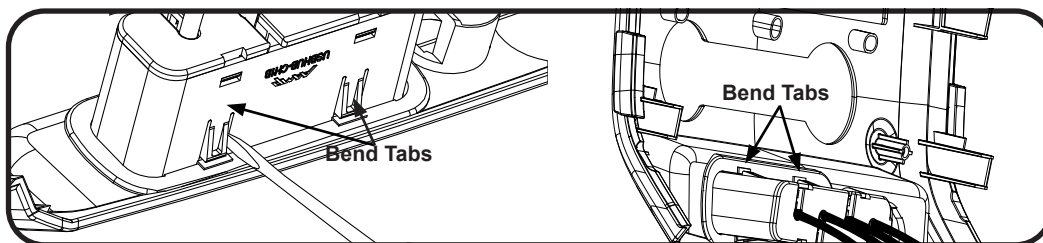
Step 6

Feed the other end of the four media cables through the opening of the Main Frame.



Step 7

Assembled main frame.



Step 8

Turn the Main Frame assembly so you can see the back-side of the media hub. With a small flat-head screwdriver bend all 4 tabs of the media hub so the clips lock in place.

Section 7: In-Vehicle Connections and Radio Unit Installation



Step 1

Attach the GPS antenna and mounting plate to the Sync module from the ix210 kit. Bend the metal so the GPS faces up. Route the GPS cable out the front of the radio area.



Step 2

Connect the BAA20 antenna adapter to the vehicle's antenna connector.



Step 3

Bring the assembled main frame into the vehicle.



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Section 7: In-Vehicle Connections and Radio Unit Installation cont;



Step 4



Step 5



Bring the assembled radio module into the vehicle.
Plug in the GPS (1), USB C (2), USB A (3), HDMI (4), and Red, White, and Yellow RCA's (5) from the media hub into the ix210 radio module.
Note: The USB 1 cable closest to the driver must be plugged into the USB port closest to the edge of the radio chassis for Apple CarPlay and Android Auto.

Connect the two-wire connector from the SR-F15009H-HAR V2 (SYNC SWC) harness to the main harness of the SR-F15009HX kit.



Step 7



Step 8



Connect the two or three vehicle side connectors on the main harness to the vehicle's radio plugs.

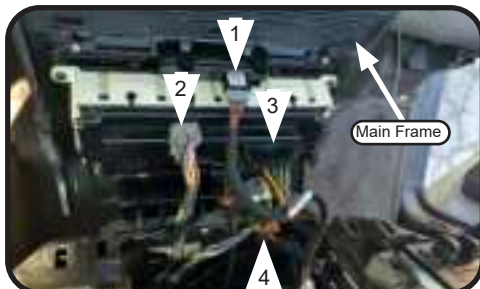
Connect the antenna male of the BAA20 to the female antenna of the radio module.

Connect the 6-pin switch extension to the switch connection in the vehicle.
NOTE: For vehicles with 2 switches use both switch extensions.

These are the connections for the basic installation. If adding additional components such as SXM tuner or additional cameras, those connections should be made at this point, before mounting the radio module.



Step 10



Step 11



With the two display cables routed over the top of the radio assembly, slide the assembly into position and re-install the (4) factory 7mm bolts.

Connect the switch extension to the switch (1), grey (2), and black (3) plug for the climate control, and power port (4) on the main frame.

Install the assembly on the vehicle's dash. Snap the panel in place and Secure with the (3) 7mm bolts.



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Section 7: In-Vehicle Connections and Radio Unit Installation cont;



Step 12

Re-install the left and right trim panels, and the 7mm bolt behind the airbag. Re-install the airbag, and the (3) 8mm bolts under the glovebox.



Step 13

Remove the 2 half-moon circles from the top of the Display Mounting Panel.



Step 14

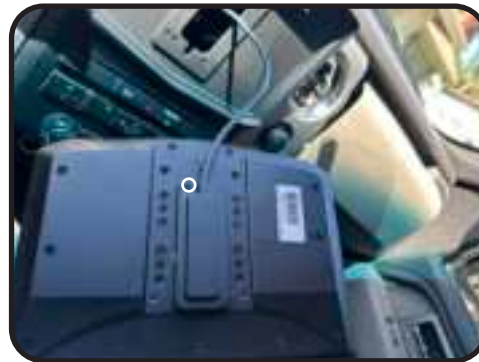
Place the Display Mounting Panel onto the front of the Main Frame with the display cable hanging out.



Step 15

Attach the Display connector to the display. Install the 6 rubber plugs onto the display leaving the top and bottom screw holes exposed.

Not applicable to
HEIGH10+



Step 16

Attach the wire cover to the back of the LCD assembly. The cover needs to install from the top of the bezel and slide down until the screw hole opening is visible. Use the supplied M2.6 x 6.5 screw from the kit to hold the cover in place.



Step 17

Take the Display Mounting Panel and mount the LCD using the M4 x 12 supplied screws.



Step 18

Line up the bottom of the display with the 3 locator slots on the main frame. Once aligned press the assembly until it sits flat against the main frame. Secure with the (2) 8x1/2 Phillips screw from the SR-kit.



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Section 7: In-Vehicle Connections and Radio Unit Installation cont;



Step 19

Install the main bolt cover from the SR kit onto the main frame next to the power port.



Ready for the road "ix210".

Testing and Verification

1. Test all features for functionality, including volume, fade, balance, steering wheel controls, reverse camera, Bluetooth, USB, AUX and HDMI ports, AM/FM reception, Apple CarPlay and Android Auto.

NOTE: Only the USB C port on the media hub will allow wired Apple CarPlay and Android Auto operation.

2. If the external microphone was not installed, the default microphone setting of External must be changed to Internal by accessing the Phone Settings (Main Menu>Phone>Settings>Microphone).

Firmware Updates

For instructions on updating the Stinger radio firmware, refer to the users guide.

Technical Support

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