

# Stinger ix212 HORIZON12

**SRX-GM14128**

Radio Replacement Kit for select  
2014-2019 Silverado/Sierra Trucks

## Introduction and Features

The SRX-GM14128 is a complete radio replacement kit for the installation of the Stinger ix212 modular radio in Chevrolet Silverado and GMC Sierra trucks. All modules, cables and adapters are included to retain important features of the factory system, including: OnStar, front and rear park assist, warning chimes, factory reverse camera, steering wheel-mounted radio controls and 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 flush mounting the 12 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. **Does not** retain the following factory features:
  - Factory satellite radio
  - Rear seat entertainment system (RSE)
  - Time of Day in Cluster
  - Factory USB Ports
  - Valet Mode
  - Teen Driver Features
  - OnStar Text
  - Wi-Fi
2. If installing aftermarket amplifiers, the included RPA-SPK can be used to retain OnStar/chimes.
3. Chime volume can be adjusted in the ix212 settings
4. The Voice button can be set to activate the factory OnStar function when pressed for longer than 1.5 seconds or given the ability to control the aftermarket radio. This option can be found in the Installer Settings on the ix212. By default, this feature is set to control the aftermarket radio, but OnStar can still be accessed by using the mirror controls.
5. For the HORIZON12 Display to be waterproof, you must install 6 waterproof plugs to the back of the touch panel display in the screw holes not used for mounting.
6. This guide is applicale to ix212 (HORIZON12) radios.

# Stinger ix212 HORIZON12

## SRX-GM14128

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### Recommended Tools

Plastic Panel Tool

7mm Socket

10mm Socket

Ratchet

Torx T15 Screwdriver

Small Flat-blade Screwdriver

Pick Tool

Wire Feeder

Power Screwdriver

### Included Components

1. Display Mounting Panel
2. Main Frame Assembly
3. Dual USB Extension (SSUSB3)
4. AM / FM Antenna Adapter (BAA22)
5. Main Harness Adapter (SR-SRK-ADAPT-IX2XXV2)
6. Main Harness (SRK-GM14HX-HAR V1)
7. Vehicle Harness Adapter (GM52-ADAPT)
8. Radio Replacement Interface (GM6A-SRK)
9. Steering Wheel Control Harness (GM5LIN-SW-HAR)
10. Factory Rear Camera Adapter (CAM-GM51-HAR)
11. IOB Display Harness (GM5CAM-DIS-HAR)
12. MOST Loops (MOST Loop 1 / MOST Loop 2)
13. External Chime Speaker (RPA-SPK)
14. Differential Video Adapter (RPA-VA1)
15. Satellite Antenna Adapter (SAT-01)
16. Side Mounting Brackets (L & R)
17. PAC-Link Cable (10P-2-10P-6-HAR\_V1)
18. PAC-Link Module (PL1)
19. Screw, M5 X10 PHP (Black) x4 (Not Shown)
20. Screw, #8 X 0.5" Tapping PHP x2 (Not Shown)
21. GPS Antenna
22. ix212 Camera Harness
23. ix212 Data Harness
24. ix212 AV Harness
25. External Mic (Not Shown)

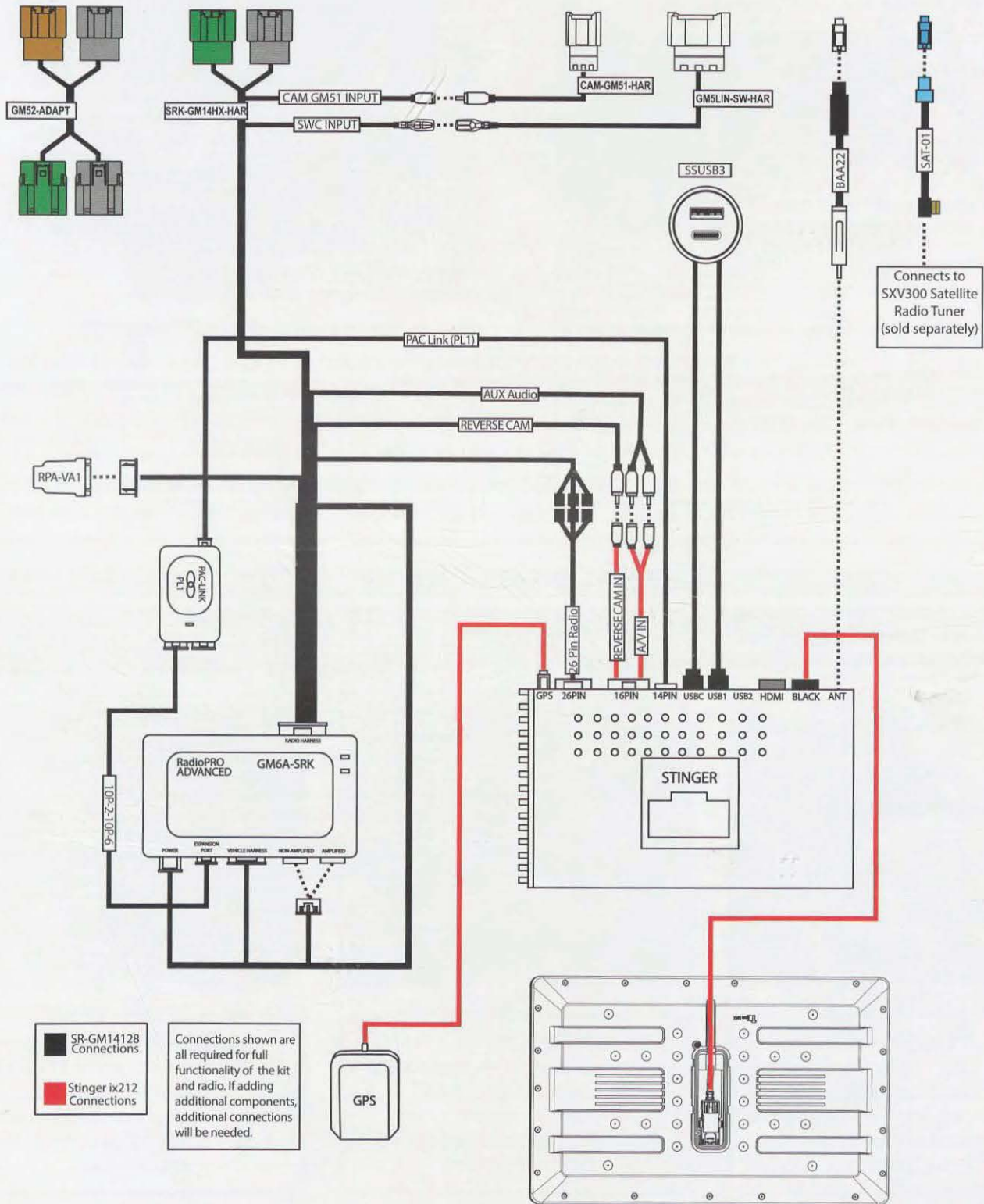


NOTE: Along with the SRX-GM14128 components,  
additional mounting clips for Main Frame Assembly  
(Not Shown)

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## Wiring Overview



# Stinger ix212 HORIZON12

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### Factory Radio Code

Before starting, determine the vehicle's factory audio system by referencing the Service Parts Identification sticker inside the upper glove box.

One of these RPO codes will be listed:  
IO3, IO4, IO5, IO6 or IOB

The installations are very similar for each type of factory audio system, but there are differences referenced throughout this guide.

*Note: The installation shown in this guide is IO5 with factory rear camera and steering wheel controls.*



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 and Preparation, Interface and Main Harness Connections, Display Mounting Panel Preparation, Radio Module Preparation and Radio Unit Installation.

The installation steps shown are all required for full functionality of the radio. If adding additional components; cameras, amplifiers, satellite radio, etc., additional steps and harnesses will be needed.

## Section 1: Disassembly

### Part One: Center Dash Disassembly



**Step 1**

Remove the radio display/climate control trim panel using a plastic trim tool to release the retaining clips. Unplug any wire harnesses from the back of the trim panel, if equipped.



**Step 2**

Remove the four 7mm screws securing the radio display/climate control panel. Pull outward to release the retaining clips. Remove all connectors from the back of the panel.



**Step 3**

If equipped, remove the two 7mm screws from the CD/DVD mechanism, remove and unplug. Connect one of the included MOST Loops to this connector and tuck into the dash.

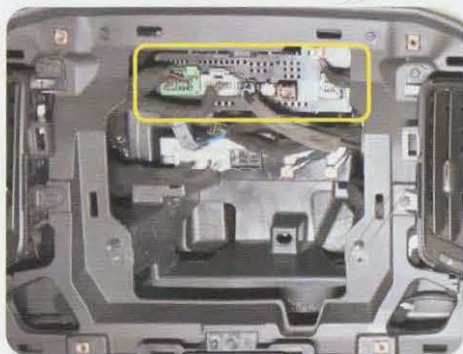
# Stinger ix212 HORIZON12

SRX-GM14128

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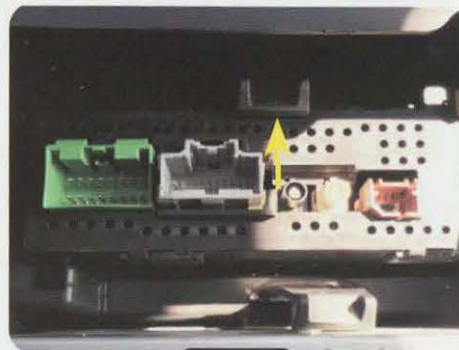
## Section 1: Disassembly (Continued)

### Part One: Center Dash Disassembly (Continued)



Step 4

Unplug all connectors and cables from the upper radio module shown.



Step 5

Remove the upper radio module by pushing upward on the locking clip and pulling outward on the module.

### Part Two: Lower Storage Compartment Removal



Step 1

Remove the two Torx T15 screws from the bottom edge of the storage compartment.



Step 2

Remove the upper Torx T15 screw inside the storage compartment.



Step 3

Using a panel tool or similar, release the top retaining clips and remove the storage assembly.

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## Section 1: Disassembly (Continued)

### Part Three: Glove Box Removal (Optional)

If the vehicle is equipped with IO4, IO5 or IO6 radio AND a factory rear camera, follow the steps below to remove the glove box. For IO3 and IOB vehicles, or no factory rear camera, proceed to Part Four.



**Step 1**

Remove the two Torx T15 screws from the bottom edge of the lower glove box.



**Step 2**

Open the upper and lower glove box doors and remove the two Torx T15 screws securing the lower glove box.



**Step 3**

Pull outward on the lower glove box to release the retaining clips and remove the lower glove box.



**Step 4**

Remove the two Torx T15 screws and pull to remove the upper glove box. Unplug the factory USB port from the backside.



**Step 5**

Up, behind the metal bar running across the inner dash, locate the HMI Module; black module with multiple colored plugs facing down.



**Step 6**

Unplug the gray 12 pin camera harness from the HMI module.

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## Section 1: Disassembly (Continued)

### Part Four: A Pillar Removal



Step 1

Remove the inserts covering the bolts on the passenger A pillar handle.



Step 2

Remove the two 10mm bolts.



Step 3

Pull the trim panel to release the retaining clips and remove.

### Part Five: Lower Steering Column Cover Removal (Optional)

If the vehicle is equipped with IO3, IO4, IO5 or IO6 radio AND steering wheel controls, follow the steps below to remove the lower steering column cover. For IOB vehicles or no steering wheel controls, proceed to Section Two on next page.



Step 1

Remove the two Torx T15 screws from the bottom edge of knee panel below the steering column. Pull outward to remove the panel and lay carefully on the floor board.



Step 2

Remove the plastic handle from the steering wheel tilt lever by pulling outward, towards the driver's door on the handle. A trim tool may also be used if unable to remove by hand.



Step 3

Pull downward on the lower cover on both sides to release the locking tabs and remove the lower cover.

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## Section 2: In-Vehicle Harness Connections and Preparation

### Part Six: External Speaker Installation



Step 1

Place External Speaker bracket behind black plastic knee panel support.



Step 2

Align right side hole of the speaker bracket with the hole located in the support and zip tie. Place a second zip tie around the support and speaker bracket.



Step 3

Route external speaker cable to the radio opening.

**Note:** The *External Speaker* is only required when running an aftermarket amplifier connected to the radio's RCA preamp outputs. Vehicles with *Bose* or *No Amplifier* do not require installation of the External Speaker. Vehicles running only a subwoofer amplifier *do not* require installation of the *External Speaker*.

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## Section 2: In-Vehicle Harness Connections and Preparation (Continued)

### Part One: Dual USB Extension (SSUSB3)

Firmware Updates require access to a USB port. The **SSUSB3** is designed to extend the USB ports on the back of the ix212 to where they are accessible once the radio is installed.

For this installation, the factory 12V power outlet will be replaced with the **SSUSB3**. You may choose to follow these steps, or mount the USB port somewhere else in the vehicle. Please note, the factory USB ports will no longer function after the factory radio is removed.



**Step 1**

From the backside of the lower storage compartment, remove the metal insert from the power outlet by releasing the two retaining clips with a small pick and pushing out the front side.



**Step 2**

Remove the plastic sleeve by depressing the two tabs and pushing out the front.



**Step 3**

Install the optional USB cover and feed the USB cables through the front of the panel. Secure with the flanged nut and then lock with the lock nut.



**Step 4**

Route the USB cables up and out of the right side opening at the rear of the CD/DVD opening.

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## Section 2: In-Vehicle Harness Connections and Preparation (Continued)

### Part Two: Factory Rear Camera Retention Harness (CAM-GM51-HAR)

If the vehicle is equipped with IO4, IO5 or IO6 radio AND a factory rear camera, follow the steps below to install the factory camera retention harness at the HMI module behind the glove box. For IO3 and IOB vehicles, or no factory rear camera, proceed to Part Four.



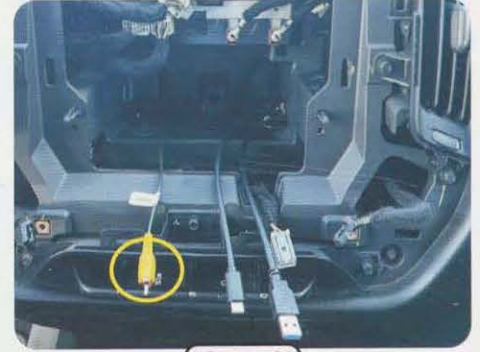
**Step 1**

Plug the gray 12 pin camera harness from the HMI module into the **CAM-GM51-HAR**.



**Step 2**

Route the yellow RCA end of the camera cable to the radio opening. Secure plug and cable with zip ties.



**Step 3**

Route the camera RCA out of the left side opening at the rear of the CD/DVD opening.

### Part Three: Steering Wheel Control (SWC) Retention Harness (GM5LIN-SW-HAR)

If the vehicle is equipped with IO4, IO5 or IO6 radio AND steering wheel controls, follow the steps below to install the SWC retention harness at the steering column. For IO3 and IOB vehicles, or no steering wheel controls, proceed to Part Four.



**Step 1**

Locate and unplug the black 10 pin connector located on the underside of the steering column.



**Step 2**

Plug the male connector into the female end of the **GM5LIN-SW-HAR** and plug the **GM5LIN-SW-HAR** male end into the female connector on the steering column.



**Step 3**

Secure the T-harness to the factory wire harness. Route the 50" single lead from the **GM5LIN-SW-HAR** to the radio opening, securing with zip ties.

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## Section 2: In-Vehicle Harness Connections and Preparation (Continued)

### Part Three: Steering Wheel Control (SWC) Retention Harness (Continued)



Step 4

Route the steering wheel control lead into the CD/DVD area through the left side opening in the rear of the cavity.

### Part Four: GPS Antenna

The GPS antenna is required for proper operation of Apple CarPlay and Android Auto, in addition to the optional GPS if installed. The GPS antenna is included in the ix212 hardware.



Step 1

Position the **GPS Antenna** and route the antenna cable down into the glove box area. Replace the A pillar panel and ensure the cable does not interfere or get pinched.



Step 2

Continue routing the GPS cable across the inner dash towards the radio opening securing with zip ties.



Step 3

Route the GPS cable into the CD/DVD area through the right side opening at the rear of the cavity.

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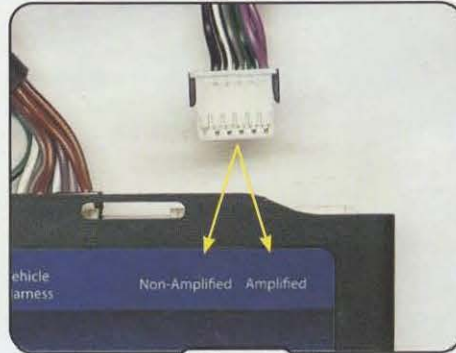
## Section 3: Interface and Main Harness Connections and Preparation

### Part One: RP5-GM51 Radio Interface Connections



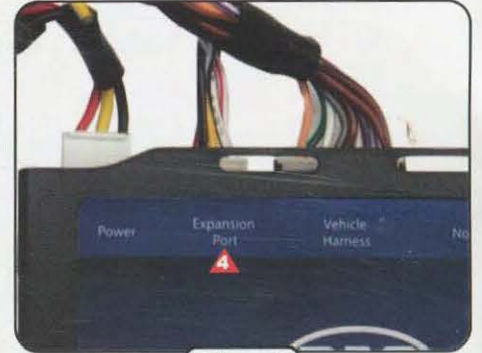
**Step 1**

From the **Main Harness (SRK-GM14HX-HAR)**, connect the "Power" (1), "Vehicle Harness" (2) and "Radio Harness" (3) connections to the GM6A-SRK module



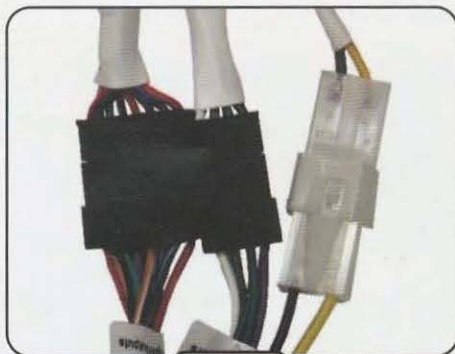
**Step 2**

For the speaker output connection, select "**Amplified**" if your vehicle is equipped with a factory BOSE system or aftermarket amplifiers. Select "**Non-Amplified**" if it is not equipped with BOSE and running the factory audio system.



**Step 3**

Connect the 10 Pin **PAC Link Cable (10P-2-10P-6-HAR)** to the "Expansion Port."



**Step 4**

Connect the 2 pin, 8 pin and 14 pin connectors from the **Main Harness Adapter (SR-SRK-ADAPT-IX2XX)** to the **Main Harness (SRK-GM14HX-HAR)**.



**Step 5**

Connect the other end of the 10 pin **PAC Link Cable** to the **PAC Link Module (PL1)**. From the **Main Harness Adapter (SR-SRK-ADAPT-IX2XX)** connect the 3 pin connector labeled "PAC Link (PL1)" to the **PAC Link Module**.



**Step 6**

Bundle any excess wire and zip tie the **PAC Link Module** to the **Main Harness**.

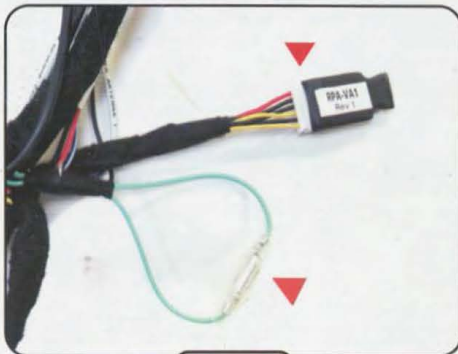
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## Section 3: Interface and Main Harness Connections and Preparation (Continued)

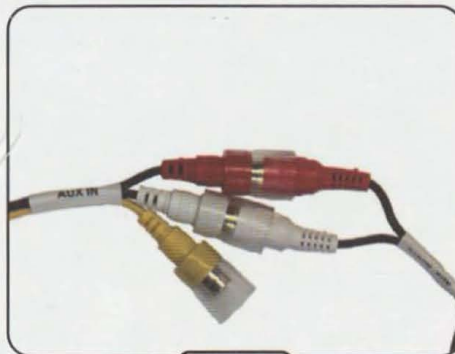
### Part Two: Main Harness Connections (SR-GM14H-HAR-A) (Continued)



Step 5

Connect the **Differential Video Adapter (RPA-VA1)** to the 6-pin lead on the **Main Harness**.

Connect the male and female ends of the Light Green leads together.



Step 6

Connect the "AUX Audio" RCAs from the **Main Harness** to the "AUX IN" RCAs on the ix212's **16 Pin AV Harness**.



Step 7

Connect the "REVERSE CAM" RCA from the **Main Harness** to the "REVERSE CAMERA IN" RCA on the **16 Pin AV Harness**.

## Section 4: Display Mounting Panel Preparation

### Part One: Transferring the Climate Controls



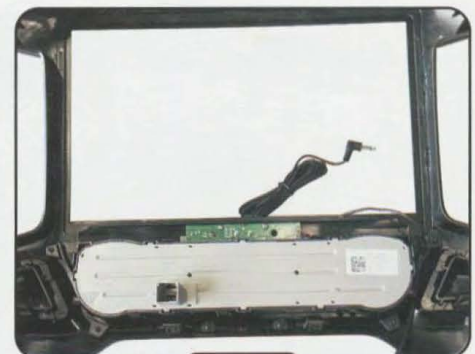
Step 1

With the factory radio display / climate control panel face down, apply slight pressure to the front of the controls while releasing the locking tabs around the perimeter.



Step 2

Once all the clips are released, remove the climate controls from the factory bezel.



Step 3

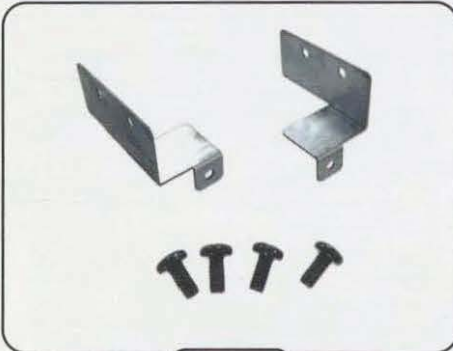
Align the controls in the **Display Trim Panel** and push to seat and lock all the retaining clips.

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## Section 5: Radio Module Preparation

### Part One: Radio Module Side Brackets



Step 1

Locate the two **Side Mounting Brackets** and four M5x10 screws.



Step 2

Using two M5x10 screws attach one side bracket as shown above.



Step 3

Using two M5x10 screws attach the other side bracket as shown above.

## Section 6: Radio Unit Installation

### Part One: Mounting the Radio Module



Step 1

Slide the ix212 **Radio Module** into the factory radio opening. You may need to push the retaining clip up to slide the radio all the way in.



Step 2

Once the bracket tabs contact the sub dash, secure with supplied #8 x 1/2" screws.

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### Section 6: Radio Unit Installation (Continued)

#### Part Two: In-Vehicle Harness and Cabling Connections



Step 1A

**IO3, IO4, IO5, IO6:** Connect the Green and Gray **Main Harness (SRK-GM14HX-HAR)** (1) connectors to the matching plugs in the vehicle.

**IO4, IO5, IO6:** If equipped, connect the Yellow RCA from the **CAM-GM51-HAR** to the "CAM-GM51 INPUT" (2) and connect the wire from the **GM5LIN-SW-HAR** to the "SWC INPUT" (3).



Step 1B

**IO5 or IO6:**  
Connect the 8 pin gray connector from the **Main Harness** to the matching 8 pin gray connector in the vehicle that was removed from the OEM radio.



Step 1C

**IOB:**  
Connect the Mustard and Gray **GM52-ADAPT** connectors to the matching plugs in the vehicle. Connect the other end to the **Main Harness**.



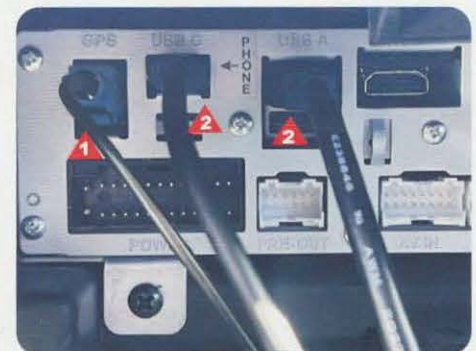
Step 2

**2018-19 IOB Only:**  
Plug the 20 pin harness that was removed from the factory display into the **GM5CAM-DIS-HAR**.



Step 3

Connect the **AM/FM Antenna Adapter (BAA22)** to the black factory antenna cable. Plug the other end of the **BAA22** into the "ANT" port on the **Radio Module**.



Step 4

Connect the **GPS Antenna** (1) and the two **USB cables** (2) to the **Radio Module**. The USB-C will handle Apple CarPlay and Android Auto

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## Section 6: Radio Unit Installation (Continued)

### Part Two: In-Vehicle Harness and Cabling Connections (Continued)



**Step 5**

From the **SR-SRK-ADAPT-IX2XX** harness, connect the "26 PIN RADIO" (3) connector to the "POWER" port on the **Radio Module**.



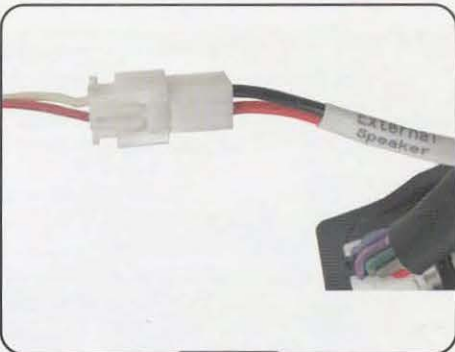
**Step 6**

Connect the **16 Pin A/V Harness** (4) and **Data Harness** (5) to the "AV IN" port on the **Radio Module**.



**Step 7**

Use the supplied two-sided tape to secure the **Radio Replacement Interface** in the lower CD/DVD cavity.



**Step 8**

If using the **External Speaker**, connect the **External Speaker** to **SRK-GM14HX-HAR**.

These are the connections for a typical installation. If adding additional cameras, amplifiers or satellite radio, those connections should be made at this point.



**Step 9**

While holding the **Display Mounting Panel**, connect the **Display Cable** to the **Radio Module**.

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## Section 6: Radio Unit Installation (Continued)

### Part Two: In-Vehicle Harness and Cabling Connections (Continued)



**Step 10**

Run **External Mic** connection and 4 pin **Data plug** through the left cut out of the **Display Mounting Panel**.



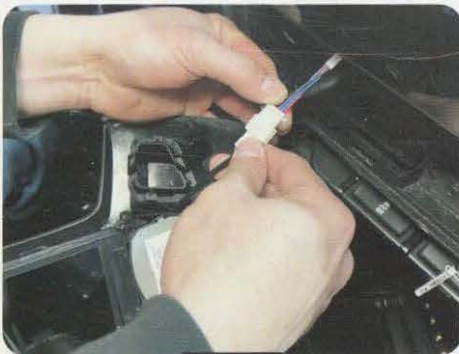
**Step 11**

Run factory **AC connector** through right cut out of the **Display Mounting Panel** and place panel in position.



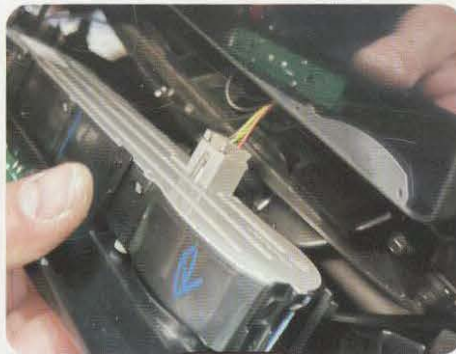
**Step 12**

Reinstall 7mm screws to **Display Mounting Panel**.



**Step 13**

Connect **Volume Knob** connector to the **Data** connector and plug the external mic to 3.5 external mic connector.



**Step 14**

Reconnect the HVAC controls.



**Step 15**

Place the **Main Frame Assembly** in place and run through a full functionality test. Do not snap in **Main Frame Assembly** until after a functionality test has been complete.

Before complete reassembly, it is recommended to start the vehicle and check the chime volume and all other functionality...

Volume, Balance, Fade  
AM/FM Reception  
USB  
Android Auto  
AC Controls

Steering Wheel Controls  
Bluetooth  
Apple Carplay  
Camera(s)  
Vehicle Info

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## Product Updates (Firmware)

### Firmware Updates (RadioPRO)

The PAC GM6A-SRK interface can be updated with new firmware as it becomes available. Please visit [www.PAC-audio.com/firmware](http://www.PAC-audio.com/firmware) for available updates and select SRX-GM14128.

### Firmware Updates (Stinger Radio and PAC Application APK)

To update the ix212 radio firmware, refer to:  
<https://stingersolutions.com>

## RadioPRO LED Feedback

### LED 1:

Blinks Red - Interface is configuring  
Solid Red - Accessory power is on  
Flashes Green - SWC button pressed  
Blinking Green - SWC remap  
Off - Accessory power is off

### LED 2:

Solid Green - Interface is running  
Blinking Amber - Connected to USB  
Off - Interface is sleeping

### LED 1 & 2:

Alternating Blinking Amber - Interface is entering sleep  
Alternating Blinking Red - Master reset

## Technical Support

**Email:** [support@StingerSolutions.com](mailto:support@StingerSolutions.com)

**Phone:** 727-592-5991



*Stinger*

12"  
Infotainment  
System

Wireless

Works with  
Apple CarPlay  
Works with  
Android Auto

PN: SRX-GM14128



**HOR ZON 12™**

**SRX-GM14128 USER GUIDE**

## FIND YOUR HORIZON

You're ready to take on any adventure with your Stinger HORIZON12 radio kit!

Additionally, your new SRX-GM14128 kit enables you to replace a GM Truck factory radio with a show-stopping 12.8-inch multimedia infotainment system while retaining OEM features and maintaining a flush, factory look and feel!

### About this document

This document covers features added to the HORIZON12 by your SRX-GM14128 kit. If you need to reference the HORIZON12 user guide, you can find it by scanning the QR code.

<https://stingersolutions.com/pages/horizon12-product-info>



HORIZON12 USER GUIDE



# WELCOME TO YOUR NEW HORIZON<sup>12</sup>™

## SRX-GM14128 USER GUIDE CONTENTS

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**Reset Button**

**Volume Knob**

Press to Mute. Roll to turn volume up or down long press to put radio to sleep

**Driver Mirror/Seat Heaters**

If equipped, the driver side mirror and seat heater controls will retain its factory location and functionality.

**HVAC Controls**

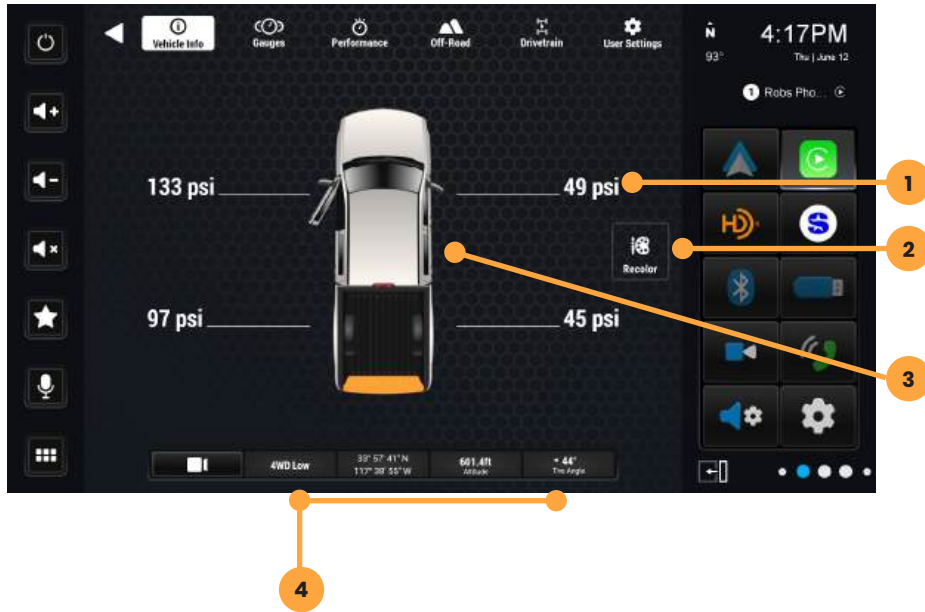
Factory AC Controls retain their location and full functionality.

**Passenger Mirror/Seat Heaters**

If equipped, the passenger side mirror and seat heater controls will retain its factory location and functionality.

**Note:** If vehicle is not equipped with mirror or seat heaters, provided panel inserts will need to be inserted in place of factory buttons.

## VEHICLE INFO



Press the **HOME BUTTON > Vehicle Info** to access the Vehicle Info functions.

### 1. Tire Pressure

Low pressure warnings can be customized in User Settings.

### 2. Recolor

Customize on screen vehicle color.

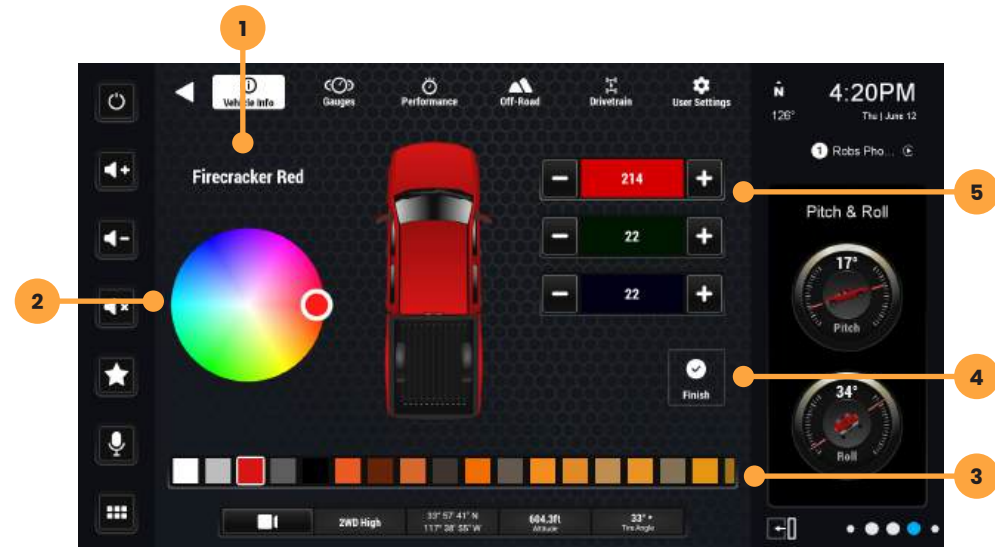
### 3. Door Closed / Opened

Indicates door, Hood, and rear gate statuses.

### 4. Vehicle Info Footer

Available on all vehicle information displays. Shows GPS Coordinates, Altitude, Tire Angle, and access to Cameras.

## VEHICLE INFO > RECOLOR



Press the **HOME BUTTON > Vehicle Info > Recolor** to access Vehicle recolor

### 1. Color Name

Displays preloaded color name or custom color number.

### 2. Color Wheel

Touch and drag to create a custom color.

### 3. Preloaded Colors

Touch to use one of the preloaded vehicle colors.

### 4. Finish

After desired color is selected, touch finish to set color as vehicle on screen color.

### 5. RGB Customization

Colors can be customized by increasing or decreasing the numbers located in each of the red, green, blue color bars.

## VEHICLE INFO > GAUGES



Press the **HOME BUTTON > Vehicle Info > Gauges** to access Gauges.

### 1. Gauges

Tap a gauge to cycle through available gauge types.

### 2. Gauge Setup Preset

There are two preset gauges setups. Press and hold to save a gauge combination and then tap that setup again to recall that combination.

Change colors in **HOME > Setting > Display > System Highlights**

Change gauge units in User Settings.

### Available Gauges:

- Barometric Pressure
- Battery State of Charge
- Battery Voltage
- Engine Coolant Temperature
- Engine Cooling Fan Speed
- Engine Intake Temperature
- Engine Oil Life Remaining
- Engine Torque
- Fuel Consumption Rate
- Fuel Level
- Transmission Temperature

## VEHICLE INFO > PERFORMANCE



Press the **HOME BUTTON > Vehicle Info > Performance** to access Performance.

Selecting Performance will display a digital speedometer and tachometer along with performance measurements.

### 1. Best 0-60 / ¼ Mile / 60-0

Whenever a new best performance measurement is achieved, the results will be displayed. Use left / right arrows to recall best measurements. Reset best measurements with the reset button.

### 2. Last 0-60 / ¼ Mile / 60-0

Use left / right arrows to recall last measurements for each performance metric.

### 3. Reset

The RESET buttons will reset either Best or Last results.

## VEHICLE INFO > OFF-ROAD



Press the **HOME BUTTON > Vehicle Info > Drive Mode** to access Settings.

### 1. Vehicle Pitch

Displays current vehicle front to back Pitch angle.

### 2. Compass

Vehicle current direction.

### 3. Vehicle Roll

Displays vehicles side to side roll angle.

### 4. Vehicle Info Footer

Available on all vehicle information displays. Shows GPS Coordinates, Altitude, Tire Angle, and access to Cameras.

### 5. Altitude

Vehicle current altitude.

## VEHICLE INFO > Drivetrain



Press the **HOME BUTTON > Vehicle Info > Drivetrain** to access Drivetrain (available in 4wd models only).

### 1. Transfer Case

Displays transfer case status. 2WD High, 4WD High, 4WD Low, 4WD Auto, & Neutral.

### 2. Tire Angle

Displays vehicles tire angle and displays current tire position.

## VEHICLE INFO > USER SETTINGS

## CAMERAS



Press the **HOME BUTTON > Vehicle Info > User Settings** to access Settings.

### 1. Default Off-Road Camera

Set camera that will display as default when camera icon is selected on footer menu.

### 2. Off-Road Overlay Settings

Turn on and off visible features of the off-road overlay such as Tire angle, heading indicators, or info bar.

### 3. Scan Tool Warning

It's possible that you might have an accessory installed that makes gauge operation unreliable. If so, this control will enable or disable the scan tool warning on the gauge cluster.

### 4. Low Tire Pressure

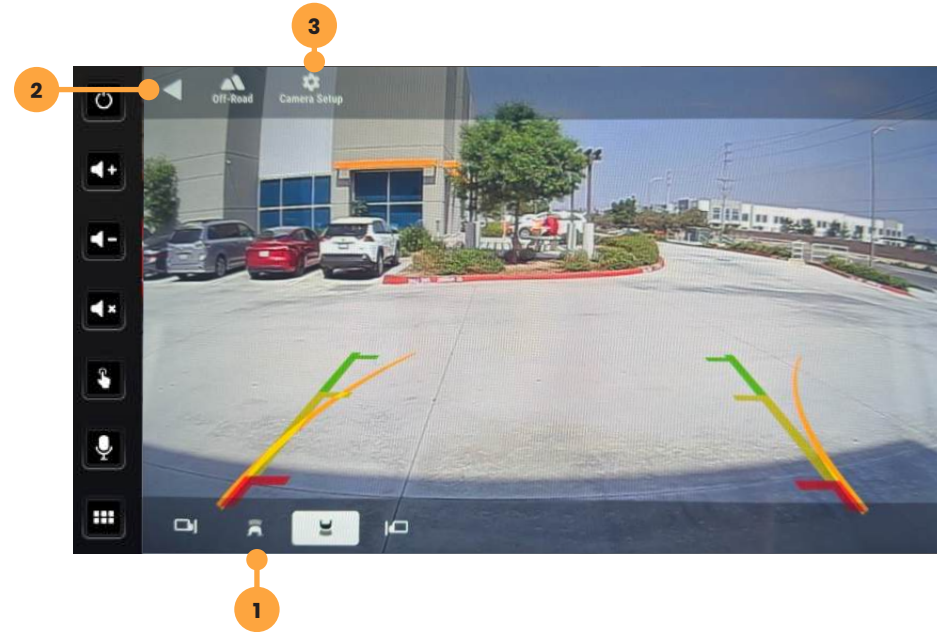
Set the threshold, for the low tire pressure warning shown on the vehicle info display.

### 5. Vehicle Recolor

This menu will take you to the vehicle recolor settings discussed on page 7.

### 6. GPS Precision

Enables normal or advanced GPS locating.



Press the **HOME BUTTON > Cameras** to select the Cameras app.

### 1. Camera Selection Bar

If there are optional cameras installed, you may view them at anytime using the camera selection bar at the bottom of the screen.

### 2. Back Arrow

Touch to exit camera view.

### 3. Settings

Touch to access Camera Settings.

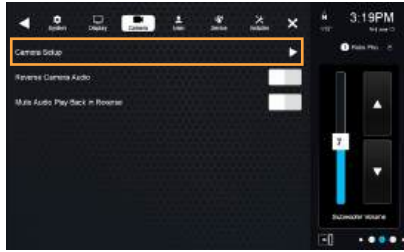


Press the **HOME BUTTON > Settings > Cameras** to access camera settings.

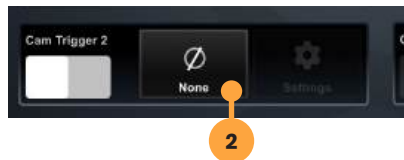
## CAMERAS

### Set Up a Custom Camera

#### 1. Tap Camera Setup



#### 2. Tap a Trigger's Label Button



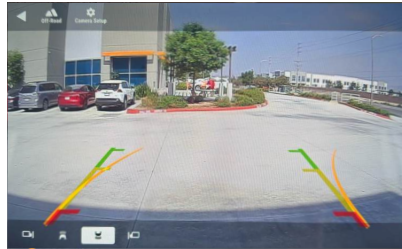
#### 3. Assign a Label



Once you assign a label, that camera's trigger and settings will be active.

#### 4. Camera Selection Bar

Your assigned Camera will now appear on the Camera Selection Bar.



#### 5. Camera Trigger

Your selected icon will only appear on the Camera Selection Bar if a label has been assigned and camera trigger is slid to **On** position and displays green.



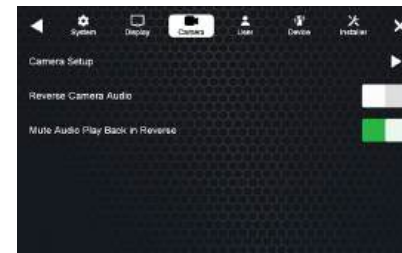
#### Reverse Camera Audio

When set to ON and a back up camera microphone is equipped, back up camera audio will be heard through the vehicle's speakers.



#### Mute Audio in Reverse

When set to ON the system will mute any audio playback while in reverse.



#### Factory Camera

Your factory rear camera will continue to automatically display when in reverse.

#### Blind Spot Monitoring Cameras

If equipped with optional aftermarket blind spot monitoring cameras, the Horizon12 will display these cameras when triggering left or right blinkers. These cameras can also be manually triggered through your Camera Selection Bar when assigned.



#### Park Assist

When Park Assist is selected the front camera will display after shifting out of reverse and steering wheel is turned. Front camera will display for the selected number of seconds and under selected speed threshold.



## CAMERAS

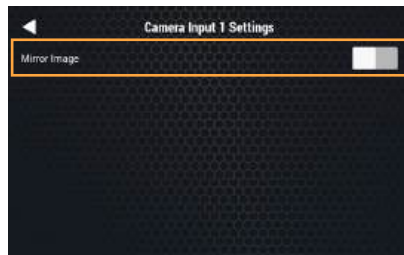
### Front Camera Settings

To adjust the front camera settings go to **HOME BUTTON > CAMERAS > CAMERA SETUP > SETTINGS** (of front camera). This will allow you to adjust the time duration or speed threshold that the front camera will stay on for after shifting out of reverse.



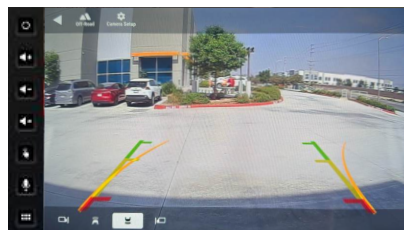
### Mirror Image

If camera view is being displayed in reverse tap **HOME BUTTON > CAMERAS > CAMERA SETUP > SETTINGS** on the camera that is reversed. Turn on Mirror Image to correct the camera image.

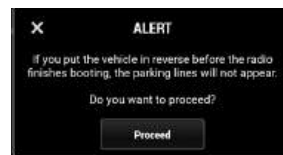


### Guidelines

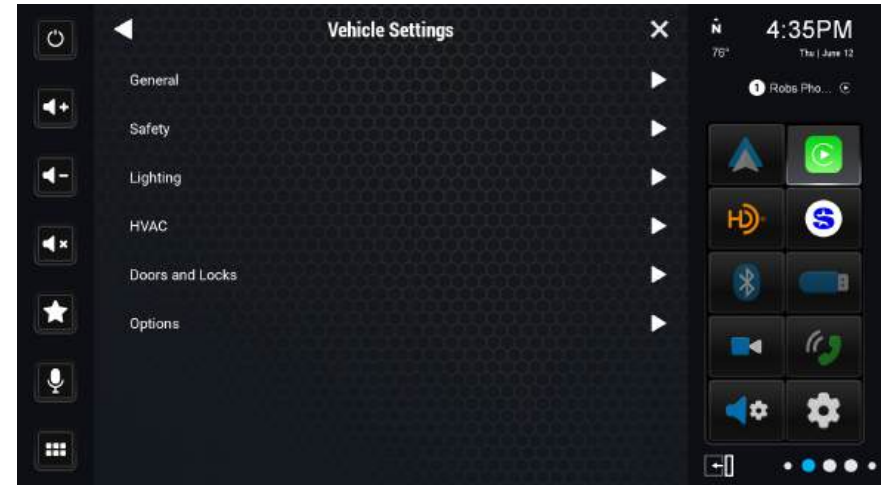
Parking guidelines are available on the SRX-GM14128 as either fixed, Dynamic, or both. To turn on Guidelines go to **HOME BUTTON > CAMERAS > CAMERA SETUP > SETTINGS** (of the rear or front camera). The rear camera allows the option for both types of guidelines to be displayed. The front camera only allows dynamic guidelines to be displayed.



**Note:** Dynamic guidelines will not appear if the vehicle is shifted into reverse before the radio has finished booting.



## Vehicle Settings



Press the **HOME BUTTON > Vehicle Settings** to access Vehicle Settings

The Vehicle Settings are all the factory vehicle settings retained from the factory radio.

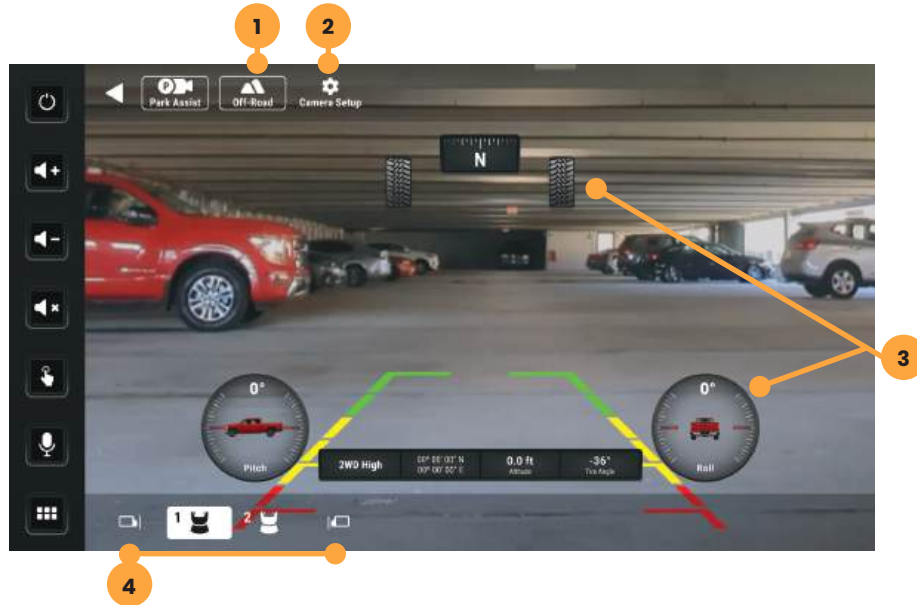
Since these are factory settings, these are all explained in detail in the vehicles Owner's Manual.

**NOTE:** The listed settings are based on how the vehicle is equipped. For example, Seat entry memory will not be present if the vehicle is not equipped with seat memory..

### Available Settings

- General
- Safety
- Lighting
- HVAC
- Door Locks
- Options

## CAMERA OVERLAY



Press the **HOME BUTTON > Camera** to access Camera views.

When the camera is first activated, there will be menu bars at the top and bottom of the display. These bars contents will vary depending on your installed equipment. These bars will auto-hide after 5 seconds

### 1. Off-Road Mode

Activating Off-Road Mode will display overlay of heading, tire angle, pitch, roll, and the vehicle information toolbar.

### 2. Camera Setup

Access your camera setup from this control. Turn triggers on, off, and adjust advanced camera features

### 3. Off-Road Overlay Elements

When off-road mode is not selected these overlays will no longer appear.

### 4. Camera Selection

Tap a camera icon to change cameras. Contents of this area will change based on your installed equipment

## USB PORTS

As part of the SRX-GM14128 Integration Kit, an upgraded media hub is installed in place of the factory cigarette lighter socket. The media hub includes 1 USB-C and 1 USB-A port.

### Primary Functions USB-C:

- Apple Carplay
- Android Auto
- USB Drive Media
- Charging
- Firmware Updates

### Secondary Functions USB-A:

- USB Drive Media
- Charging
- Firmware Updates



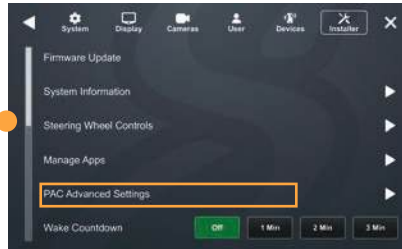
**Note:** Vehicle without full center console shown.

## PAC STEERING WHEEL CONTROLS

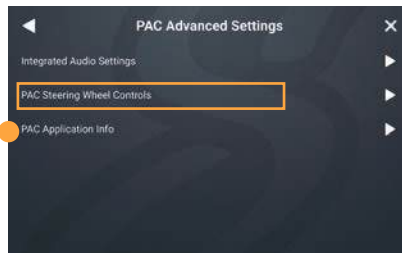
The PAC interface allows retention and customization of the factory steering wheel control buttons.

By default they will be programmed according to the factory functions. You may change the function or add Long Press functionality to any button. For example you can assign Long Press on Voice Control button to activate **OnStar**.

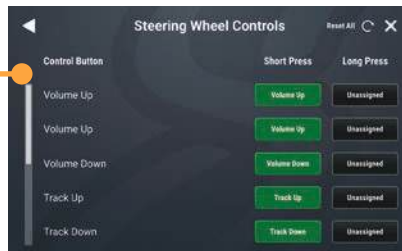
### 1. Access Installer Settings and select PAC Advanced Settings



### 2. Select PAC Steering Wheel Controls

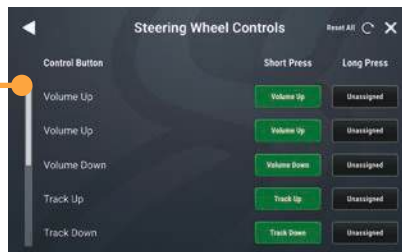


### 3. To change or add a SWC function, touch the corresponding short or long press assignment



### 4. A function menu will be displayed with the current function highlighted.

Select any of the functions to assign that function to that button.



## UPDATING SYSTEM FIRMWARE

### 1. Format a USB Drive

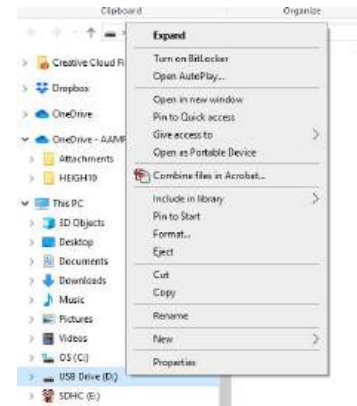
In order to prepare a USB Flash Drive for use with your HORIZON12 system, the USB drive must be formatted to FAT32 / MS-DOS(FAT).

#### Windows PC

1. Insert a 32GB+ USB Drive
2. Open File Explorer



3. Right click on USB Drive and select Format

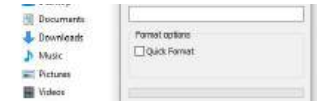


4. Select FAT 32 (Default) File System

5. Deselect Quick Format



6. Click Start



#### MAC OSX

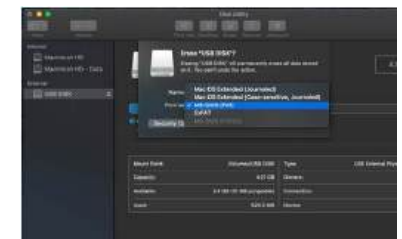
1. Insert a 32GB+ USB Drive
2. Launch the Disk Utility App from the Utilities folder
3. Select the USB drive from the External List and click Erase



4. Select MS-DOS(FAT) from the format drop-down menu and click Erase



### 2. Download Firmware



Download the firmware file from [StingerSolutions.com](http://StingerSolutions.com). Transfer the firmware file as-is onto the formatted USB drive.

The file must be in the root directory of the USB drive. Do not unzip the file.

### 3. Install System Update

Insert the USB drive into any USB port on the radio.

*NOTE: When updating the firmware, all settings will be reset to factory defaults.*

Station presets, EQ presets, audio/crossover settings, time alignment, camera settings will all be overwritten.

You can export user settings to the same USB drive you prepared earlier from the installer menu.

Your HORIZON12 will automatically detect the firmware file, either when you plug it into your powered radio or on startup

Tap Update Firmware on the popup. The update will take 6 - 8 minutes.

**NOTE: Do not attempt to stop an update. DO NOT turn off power. The system will be damaged if power is lost during the update process.**

### 4. System Reset

When the update is complete and display is on the Radio source, Turn vehicle on, Master Reset Radio in installer settings. Once complete, press **Reset** button on display. Once reboot is complete, turn off vehicle and wait 1 minute. Turn the vehicle back on. Vehicle specific widgets will then appear and update is complete.



## TROUBLESHOOTING

### General

#### Black Screen w. Audio

Touch the screen anywhere as it may have been turned off.

Ensure the cables on the back of the screen are fully locked into place and also properly connected at the back of the radio module.

Check for damaged/kinked cables.

### Bluetooth

#### Device will not Pair

Ensure Bluetooth is turned ON in your device settings. Delete all unused devices. Delete any "Stinger" device. Restart/Reboot device and try pairing again.

#### Music Volume is low

- Turn up volume on device
- Turn up volume on head unit.
- Turn up Phone Volume

#### Phone Volume is low

- Turn up volume on device.
- Turn up volume on head unit.
- Turn up BT Volume Gain
- Turn up Microphone Gain

### Cameras

#### Rear Camera not displaying in reverse

- Make sure rear camera trigger is ON (Page: 15-18)
- If display is showing NO SIGNAL in reverse, ensure camera RCA is plugged into the correct RCA

input (CAMERA IN).

- Confirm camera has power and ground.
- Confirm camera trigger is receiving positive 12V.

#### Installed Camera not showing Video

- Make sure the correct video format (NTSC, PAL, etc.) is selected.

#### User Note: Backgrounds

Your HORIZON12 head unit utilizes a Liquid Crystal Display (LCD) panel to display clear, crisp images in a variety of lighting conditions.

Your HORIZON12 unit is optimized to provide the highest quality image in a variety of use cases, but you should be aware that certain contrast ratios and backgrounds can cause temporary image retention.

When customizing your background, avoid images that include high contrast static patterns; these images can cause temporary image retention in LCD panels through repeated use.

Retained images should vanish within 10-40 minutes of normal operation. If you see from your custom background,

we strongly suggest you choose another option, or use one of the included HORIZON12 background options to ensure uninterrupted enjoyment. :)

## SiriusXM Satellite Radio

### Check Antenna

The radio has detected a fault with the SiriusXM antenna. The antenna cable may be either disconnected or damaged.

- Verify that the antenna cable is connected to the SiriusXM Connect Vehicle Tuner.
- Inspect the antenna cable for damage and kinks.

Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at [www.shop.siriusxm.com](http://www.shop.siriusxm.com).

### Check Tuner

The radio is having difficulty communicating with the SiriusXM Connect Vehicle Tuner. The tuner may be disconnected or damaged.

Verify that the SiriusXM Connect Vehicle Tuner cable is securely connected to the radio.

### No Signal

The SiriusXM Connect Vehicle Tuner is having difficulty receiving the SiriusXM satellite signal.

- Verify that your vehicle is outdoors with a clear view of the sky.

- Verify that the SiriusXM magnetic mount antenna is mounted on a metal surface on the outside of the vehicle.
- Move the SiriusXM antenna away from any obstructions. Inspect the antenna cable for damage and kinks.
- Consult the SiriusXM Connect Vehicle tuner installation manual for more information on antenna installation.

Replace the antenna if the cable is damaged. SiriusXM products are available at your local car audio retailer or online at [www.shop.siriusxm.com](http://www.shop.siriusxm.com).

### Channel Locked

The channel that you have requested is Locked by the radio Parental Control feature. See the Parental Control section on Page 18 for more information on the Parental Control feature and how to access locked channels. Default lock code is **1234**

### Wrong Code

The code you entered is incorrect. The default lock code is **1234** If you've changed your code and can't remember it, you will have to perform a master reset of your head unit to restore the old code.

### Subscription Updated

The radio has detected a change in your SiriusXM subscription status.

Press anywhere on the screen to clear the message.

### Channel Unavailable

The channel that you have requested is not a valid SiriusXM channel or the channel that you were listening to is no longer available. You may also see this message briefly when first connecting a new SiriusXM Connect Vehicle tuner.

Visit [www.siriusxm.com](http://www.siriusxm.com) for more information about the SiriusXM channel lineup.

### Memory End

This message will display when the beginning of stored audio has been reached. You cannot rewind any further.

### IR Buffer Memory Full

The stored audio memory has become full while audio was paused.

### Channel Unsubscribed

The channel that you have requested is not included in your SiriusXM subscription package or the channel that you were listening to is no longer included in your SiriusXM subscription package.

In the U.S.A., visit [www.siriusxm.com](http://www.siriusxm.com) or call 1-866-635-2349 if you have questions about your subscription. In Canada, visit [www.siriusxm.ca](http://www.siriusxm.ca) or call 1-877-438-9677 if you have questions about your subscription.

## Apple CarPlay

### Restart your Phone

A common first step to take when you're having connection issues is to restart your device.

1. Turn your phone off.
2. Wait 30 seconds.
3. Turn your phone back on

### Make sure your operating system is up to date

Apple often releases updates to your phone's operating system, known as iOS®, to keep it secure and working at its best. These software updates are important. Not updating your iPhone can lead to software issues and glitches, like CarPlay not working.

For step by step instructions, visit <https://support.apple.com/en-us/118575>

### Make sure CarPlay is turned on

If your iPhone isn't connecting to Apple CarPlay, the feature may not be enabled on your device or you may have turned it off and need to turn it back on. Here's how:

Go to Settings > General > CarPlay > My Cars, then select your car to reconnect it to the app. Make sure to turn on the Allow CarPlay When Locked option, too, so that CarPlay works when your phone is locked.

If your car is already connected, tap your car, then tap Forget This Car. Then connect it again.

If you've turned off CarPlay in Screen Time, go to Settings > Screen Time > Content & Privacy Restrictions. If you've turned on Content & Privacy Restrictions, tap Allowed Apps and confirm that CarPlay is enabled. (Tap the button until it's green.)

### **Confirm Siri is turned on**

CarPlay won't work unless Siri® is turned on. To turn it on, go to Settings > Siri & Search on your iPhone, then confirm that Listen for "Hey Siri" is on.

Make sure to include the Allow Siri When Locked option, too, so that CarPlay works when your iPhone is locked.

### **Make sure Bluetooth is connected**

If you're using a wireless CarPlay connection, go to Settings > Bluetooth to confirm that Bluetooth® is turned on. Then go to Settings > Wi-Fi to check that Wi-Fi is also turned on. Finally, go to Settings > General > CarPlay and check that Auto-Join is turned on.

### **Check your USB cable**

Make sure the wire isn't frayed or broken. Try using it with another device—if it doesn't work, you probably have a faulty USB cable and need to replace it. Also, make sure you're plugged into the correct USB-C port for phone projection. Apple CarPlay

### **Android Auto**

#### **Restart your Phone**

A common first step to take when you're having connection issues is to restart your device.

1. Turn your phone off.
2. Wait 30 seconds.
3. Turn your phone back on

#### **Make sure your operating system is up to date**

You can find your device's Android version number, security update level, and Google Play system level in your Settings app. You'll get notifications when updates are available for you. You can also check for updates there as well

For step by step instructions, visit <https://support.google.com/android/answer/7680439>

#### **Make sure Bluetooth is connected**

If you're using a wireless Android Auto connection, go to Settings > Bluetooth to confirm that Bluetooth® is turned on.

#### **Check your USB cable**

Not all USB cables will work with all cars. For the best quality and reliability when you connect to Android Auto try a high-quality USB cable.

# HORIZON<sup>12</sup>

The HORIZON12 infotainment radio boasts, a roomy 12.8-inch touchscreen, wireless smartphone connection, and IP65 weather-resistance for any adventure.

**Enhance your experience with our compatible products**

**AudioControl**<sup>®</sup>  
Making Good Sound Great™

**DM Smart DSP App Intergation**  
On-screen control of AudioControl's DM series processors and amplifiers



**Factory Vehicle Integration**  
Retain factory features and add even more upgraded features

## ENLIGHT10

**RGB Light Control**  
On-screen control of ENLIGHT10 RGB dynamic LED lighting

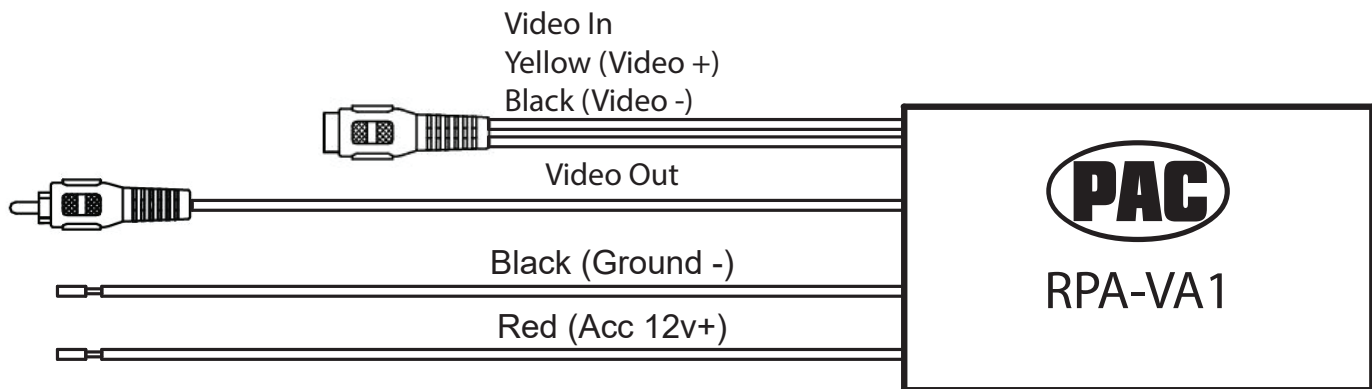
## Introduction & Features

The RPA-VA1 is a differential to single ended video converter. It is designed for use when installing an aftermarket radio into a vehicle that uses a differential camera. The RPA-VA1 can also be used as a video noise filter in cases where the camera ground is on a different plane than the aftermarket radio, by eliminating the ground loop and fixing distortion such as horizontal lines in the video.

## Important Notes

1. It is very important that you connect the RPA-VA1 ground wire to the aftermarket radio's ground wire. These two components sharing the same ground is critical to the noise filter feature.
2. The video input connector has 2 independent wires for when you are connecting to a factory reverse camera. The RCA end can be cut off and the harness wires connected directly to the vehicle.

## Wiring Connection Chart



# HORIZON<sup>12</sup><sup>TM</sup>

I N F O T A I N M E N T S Y S T E M

## WELCOME!

Scan the QR code or visit the URL  
to access:

- User Guide
- Install Guide
- Firmware Updates
- Tech Tips
- Install Videos
- Accessories

<https://stingersolutions.com/pages/welcome-horizon12>

*Stinger*

