

Introduction and Features

The SR-TUN14HX is a complete radio replacement kit for the installation of the Stinger HORIZON10® modular radio in Toyota Tundra. All modules, cables and adapters are included to retain important features of the factory system, including: steering wheel-mounted radio controls, factory amplifier, factory reverse camera, factory USB port 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 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 RP4.2-TY11 does not retain Rear Seat Entertainment.
3. To retain SiriusXM Radio, a SXV300 Tuner is required and sold separately.
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. Speaker fading on factory amplified systems is only supported with the "amplified output" connection of the RP4.2-TY11.
6. When using real time fade, if the fader setting is biased more to the front or rear, as the radio turns on the sound may begin at the default setting and then quickly transition to your custom setting.
7. Radio features such as High Pass Filters (crossovers) will interfere with proper fader function. In order for the RP4.2-TY11's fader function to work, the audio from the radio's output must match so it can compare the front and rear audio levels and determine the proper fader setting for the factory amplifier.
8. If the truck is equipped with a factory 360° camera system, changing camera views using the touch screen will no longer be available. Camera views can be changed using the steering wheel controls only.

Recommended Tools

10mm Socket	Phillips Screwdriver
Ratchet	Plastic Trim Tool
Socket Extension	Flush Cutters

Included Components

1. LH Side Bracket (TUN14H_LH)
2. HORIZON10 Display Main Frame
3. RH Side Bracket (TUN14H_RH)
4. Module Bracket (H_MODULE_BRKT)
5. Differential Video Adapter (RPA-VA1)
6. Radio Interface (RP4.2-TY11)
7. Main Harness 3 Plug (SR-TAC19H-HAR)
8. Main Harness 4 Plug (SR-TAC16H-HAR)
9. Main Harness Adapter (SR-SRK-ADAPT-IX210)
10. Satellite Radio Antenna Adapter (SAT-02)
11. USB Adapter (USBC-TY3)
12. USB Adapter (USBC-TY1)
13. AM/FM Antenna Adapter (BAA44)
14. GPS Antenna Adapter (GPS-TY01)
15. Mounting Hardware:

8pcs - #10 x 3/8" Truss Head Phillips Screws

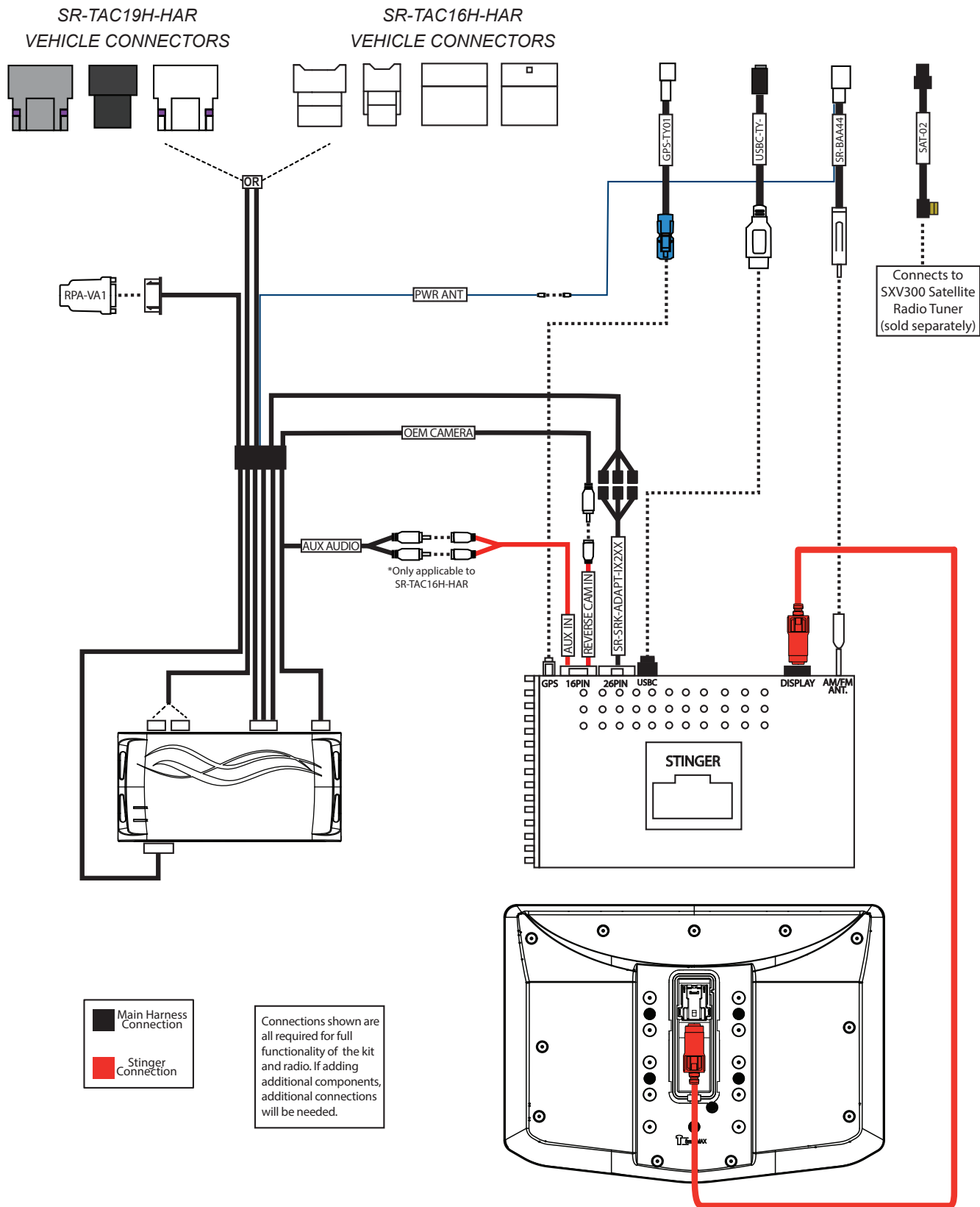
NOTE: Along with the SR-TUN14HX components, additional hardware and wire harnesses from the HORIZON10 (IX210) kit will also be used in the installation. Refer to the IX210 Installation Guide for harness and hardware descriptions.



SR-TUN14HX

Stinger HORIZON10® Radio Replacement Kit
for 2014-2021 Toyota Tundra

Wiring Overview



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, Interface and Main Harness Connections, Side Bracket Assembly, Main Frame Assembly In-Vehicle Connections 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

Before removing the factory radio, ensure that all vehicle settings that are programmed using the factory radio are set to the desired settings.



Step 1

Using a plastic trim tool, remove the media/switch panel below the climate controls.



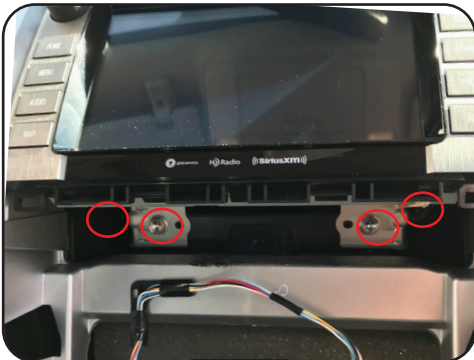
Step 2

Remove the climate control assembly by pulling outward from the bottom to release the clips.



Step 3

Remove the connector on the backside of the climate controls and set panel aside.



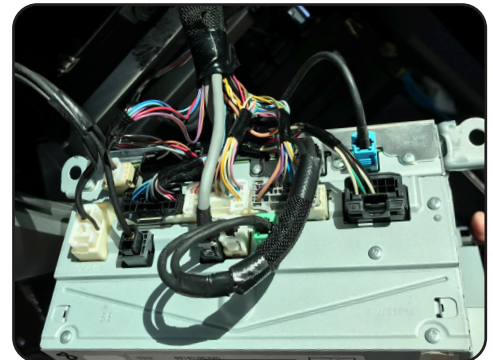
Step 4

Remove the four 10mm bolts below the radio.



Step 5

Remove the radio by pulling outward from the bottom to release the clips along the top.



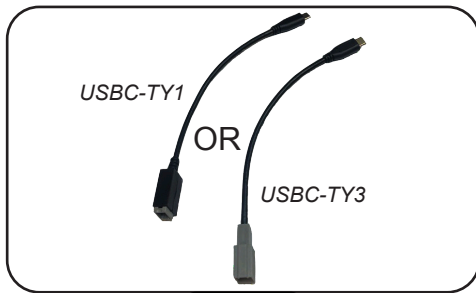
Step 6

Remove all connectors and cables from the back of the radio.

SR-TUN14HX

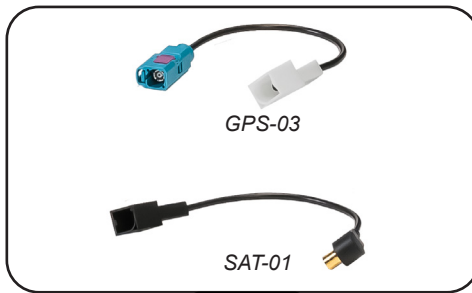
Stinger HORIZON10® Radio Replacement Kit
for 2014-2021 Toyota Tundra

Section 2: In-Vehicle Harness Connections



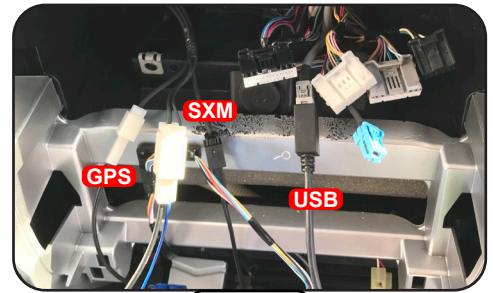
Step 1

From the SR-TUN14HX kit, locate the correct **USB Adapter** that matches the factory USB cable in the vehicle.



Step 2

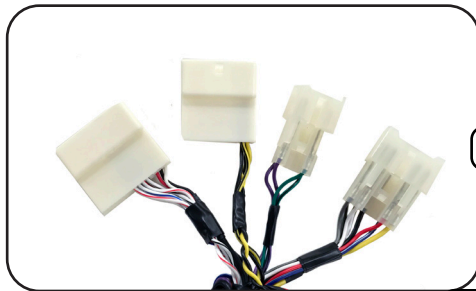
From the SR-TUN14HX kit, locate the **GPS Antenna Adapter** and **Satellite Radio Antenna Adapter** if installing a SXM tuner.



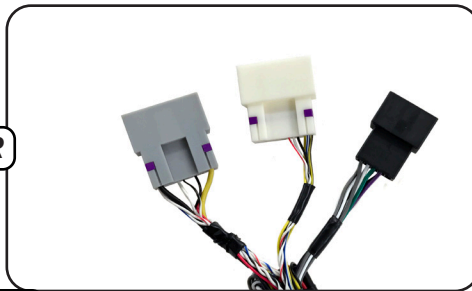
Step 3

Connect the adapters to the matching connectors removed from the factory radio.

Section 3: Interface and Main Harness Connections

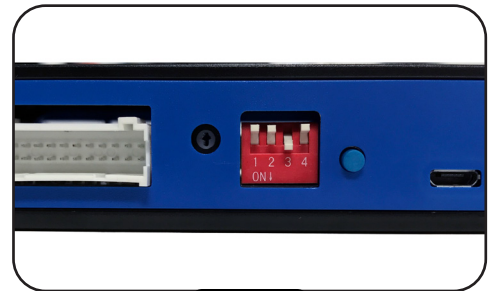


OR



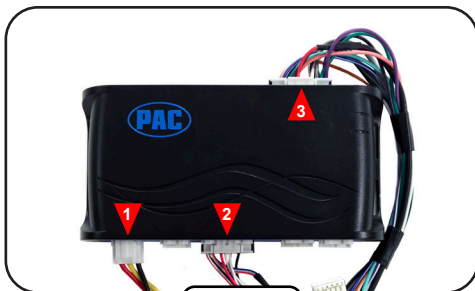
Step 1

Referencing the radio plugs in the vehicle, determine which **Main Harness** will be used: the **SR-TAC16H-HAR** (4-Plug) or the **SR-TAC19H-HAR** (3-Plug).



Step 2

Set dip switch #3 to the down (ON) position on the side of the **Radio Interface (RP4.2-TY11)**. All other switches up (OFF).



Step 3

Plug in the 3-pin (1), 20-pin (2) and the 24-pin (3) plugs on the main harness to the appropriate ports on the interface.

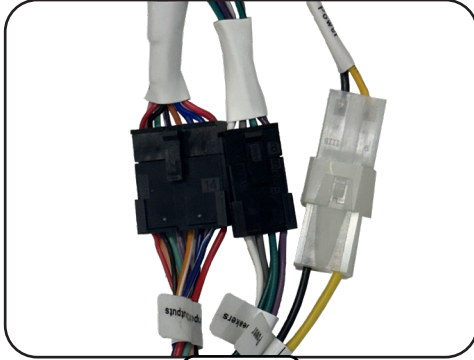


Step 4

Referencing the sticker on the back, connect the 12-pin connector (4) to the appropriate port. Amplified if the truck has a factory amplifier, Non-Amplified for base audio.

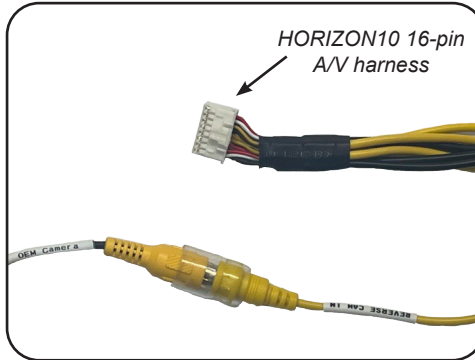


Section 3: Interface and Main Harness Connections (continued)



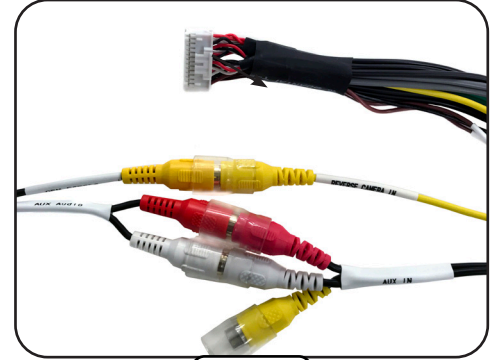
Step 4

Connect the **Radio Harness Adapter (SR-SRK-ADAPT-IX210)** to the **Main Harness** (from step 1).



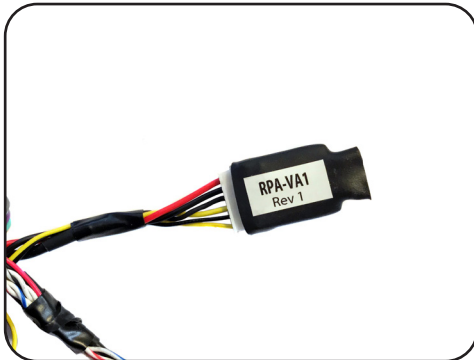
Step 5

Connect the "OEM Camera" RCA on the **Main Harness** to the "Reverse Cam In" RCA on the HORIZON10's **16 Pin AV Harness (PSEH-2103)**.



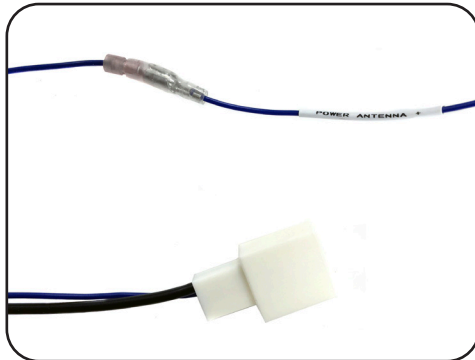
Step 6

For 2014-2018 Tundra, connect the pair of RCA's labeled "AUX Audio" from the **Main Harness (SR-TAC16H-HAR)** to the "AUX IN" RCA's on the HORIZON10 **Harness**.



Step 7

From the SR-TUN14HX kit, connect the **Differential Video Adapter (RPA-VA1)** to the 6-pin plug on the **Main Harness**.

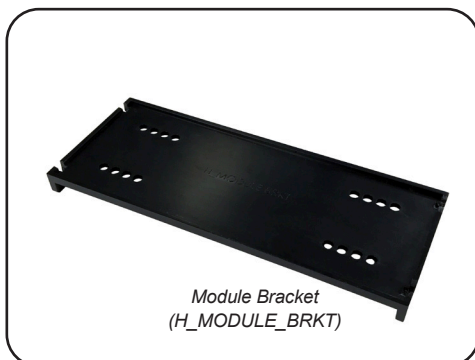


Step 8

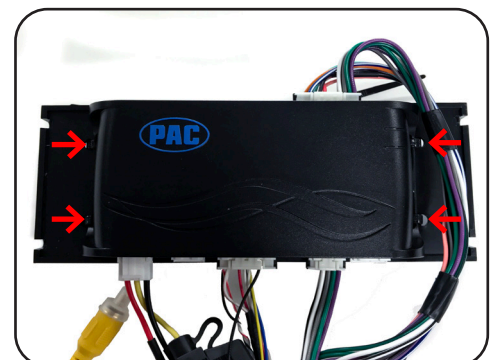
Connect the blue wire on the **AM/FM Antenna Adapter (BAA44)** to the blue "POWER ANTENNA +" lead on the **Main Harness**.

Step 9

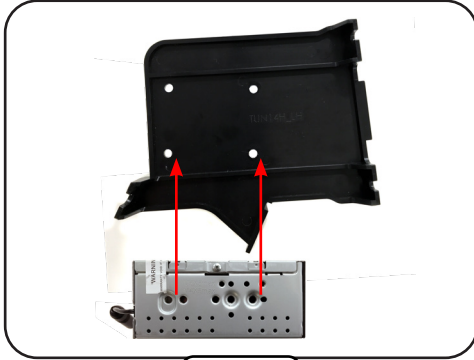
Attach the **Radio Interface (RP4.2-TY11)** to the **Module Bracket (H_MODULE_BRKT)** using supplied zip ties in four locations.



Module Bracket
(H_MODULE_BRKT)

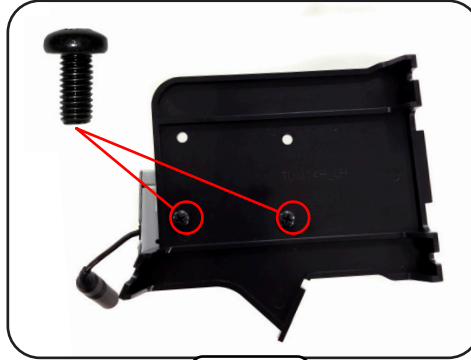


Section 4: Side Bracket Assembly



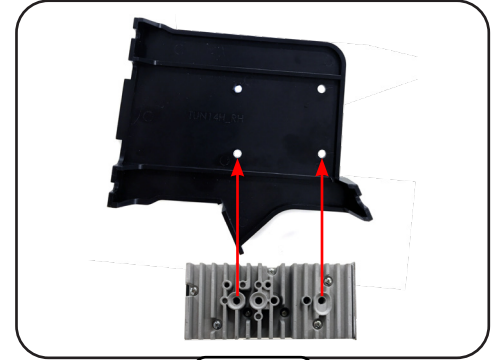
Step 1

Align the lower holes of left hand bracket (TUN14H_LH) to left side of the HORIZON10 radio module as shown above.



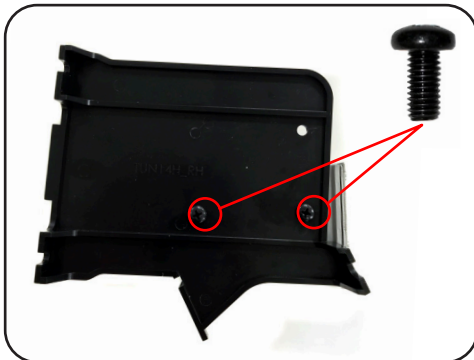
Step 2

Attach the left hand bracket to the radio module using two M5 x 10 screws from the HORIZON10 hardware.



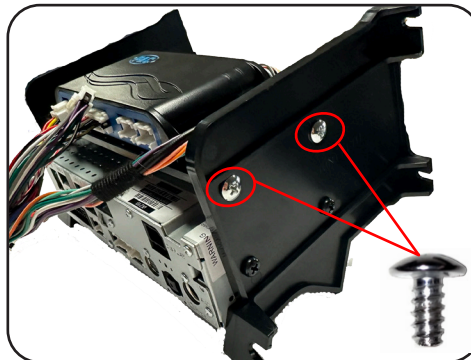
Step 3

Align the lower holes of right hand bracket (TUN14H_RH) to right side of the HORIZON10 radio module as shown above.



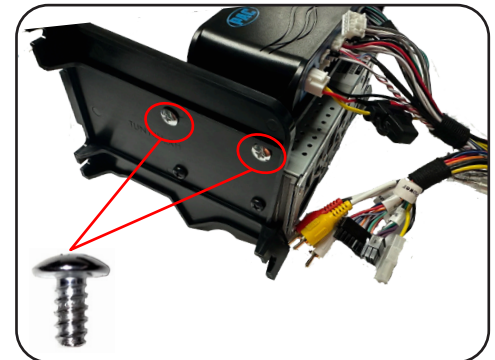
Step 4

Attach the right hand bracket to the radio module using two M5 x 12 screws from the HORIZON10 hardware.



Step 5

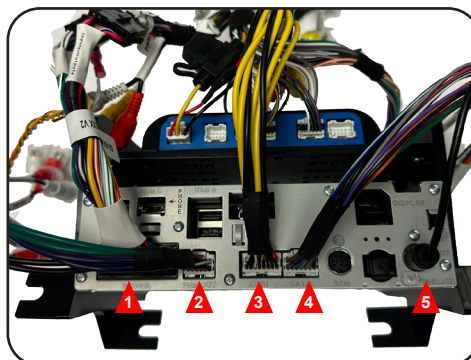
Position the module bracket between the side brackets as shown. Align to the top holes and secure using four #10 x 3/8" truss head philips screws from the SR-TUN14HX hardware



Step 6

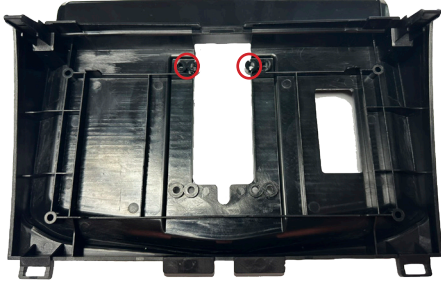
From the main harness, plug in the 26-pin (1), 12-pin (2) and 16-pin (3) plugs into the HORIZON10 Radio Module.

Plug in the HORIZON10 14-pin A/V harness (4). Antenna Adapter into the Radio Chassis (5).



Section 5: Screen Preparation / Main Frame

Cut or break off these tabs



Step 1

Place the **HORIZON10 Panel Display Mount** face down and cut off the two tabs marked in red.



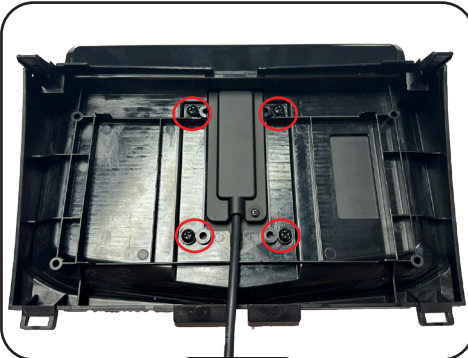
Step 2

Place the **HORIZON10 Panel Display** face down. Connect the **LVDS Display Cable** followed by the **LVDS Connector Rear Cover**



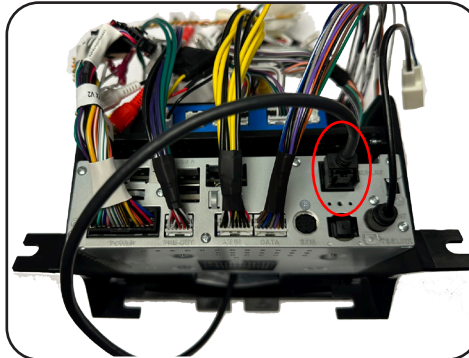
Step 3

Push the **LVDS Connector Rear Cover** down until the screw hole opening is visible. Insert the M2.6x6.5 screw to secure the cover.



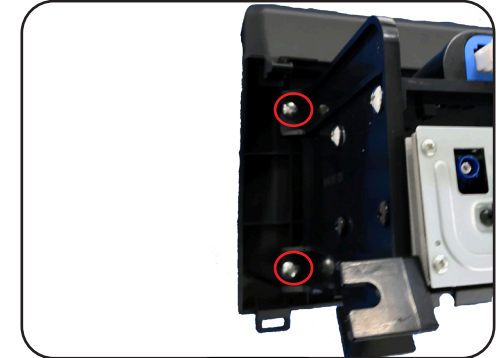
Step 4

Place the **HORIZON10 Touch Panel Display** face down and pass the cable through the hole. Then use 4 M4 X12 Screws to secure



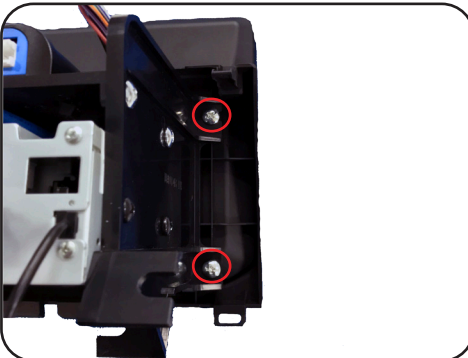
Step 5

With the Display face down set the assembled unit and connect the **LVDS Cable** Shown in the red circle. Note the cable routing.



Step 6A

Align the **RH & LH Side Bracket** holes to the **Display Main Frame** mounting holes and secure using four #10x3/8" screws from the SR-TUN14HX hardware.



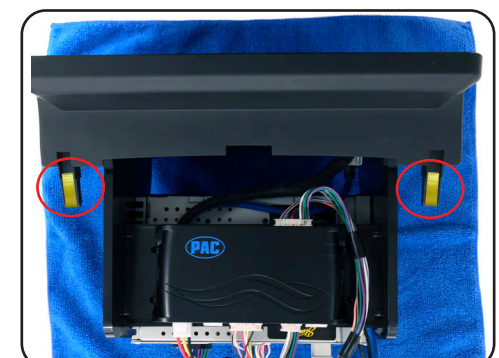
Step 6B

See Notes from Step 6A

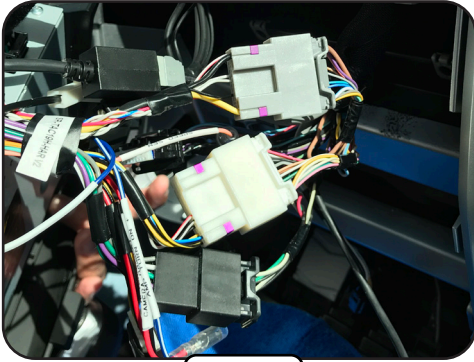


Step 7

Remove the two retaining clips from the factory radio and install them in the same location on the **Display Main Frame**.

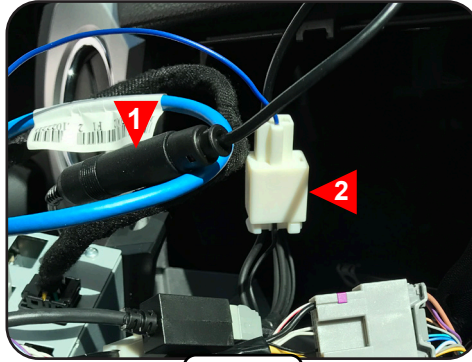


Section 6: In-Vehicle Connections and Radio Unit Installation



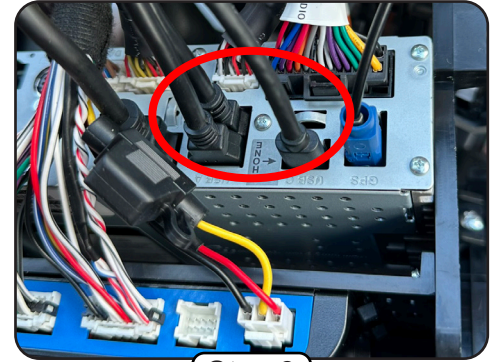
Step 1

Connect the three (or four) vehicle side connectors on the **Main Harness** (from Section 3, Step 1) to the matching vehicle radio plugs.



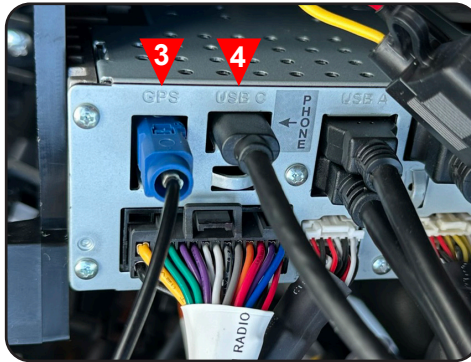
Step 2

Connect the **AM/FM Antenna Adapter (BAA44)** to the HORIZON10 AM/FM antenna input (1). Connect the other end to the vehicle's AM/FM antenna (2).



Step 3

Insert the included USB-C / USB-A adapters into the ports on the back of the HORIZON10. See step 4 notes for additional information.



Step 4

Plug in the GPS (3) and USB (4) adapters. Note: The USB-C cable must be plugged into the USB-C port for wired Apple CarPlay and Android Auto functionality.

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

NOTE: If the External Microphone is installed, the setting must be changed from Internal (Default) to External in the Phone Settings:

Main Menu > Phone > Settings



Step 5

Slide the radio assembly into position and align the top retaining clips to the sub-dash.



Step 6

Push to seat the retaining clips. Install one of the 10mm bolts below the radio to temporarily hold it in place.



Step 7

Before reassembling the vehicle, it is recommended to proceed to Testing and Verification on the next page.

Testing and Verification

1. Turn on the radio and check volume, balance and fade. If you do not hear any audio you may need to cycle the ignition to initialize the factory amplifier. If there is still no audio, reset the interface according to the procedure in the next section.
2. For JBL systems, if the overall volume is too low, use the gain adjustment on the side of the RP4.2 interface to set it to the desired level. The best way to do this is to turn the volume on the radio to 3/4 volume, then turn the gain on the RP4.2 until some distortion is heard, then back it down a little.
3. Verify that all SWC are functioning properly. If any of the SWC are not functioning properly you may need to reset the interface.
4. Verify AM/FM Reception, Bluetooth, USB, Apple Carplay, Android Auto and Camera(s) are functioning correctly.

Restoring Factory Settings

You can restore the RP4.2-TY11 interface to factory default settings by pressing and holding the programming button on the side of the module until the status LED starts blinking red. Once the LED starts blinking red, release the button. You must release the button while the LED is blinking red in order to perform the reset. Please note, the LED will go through two stages before it starts blinking red. First it will blink green, then amber, then red.

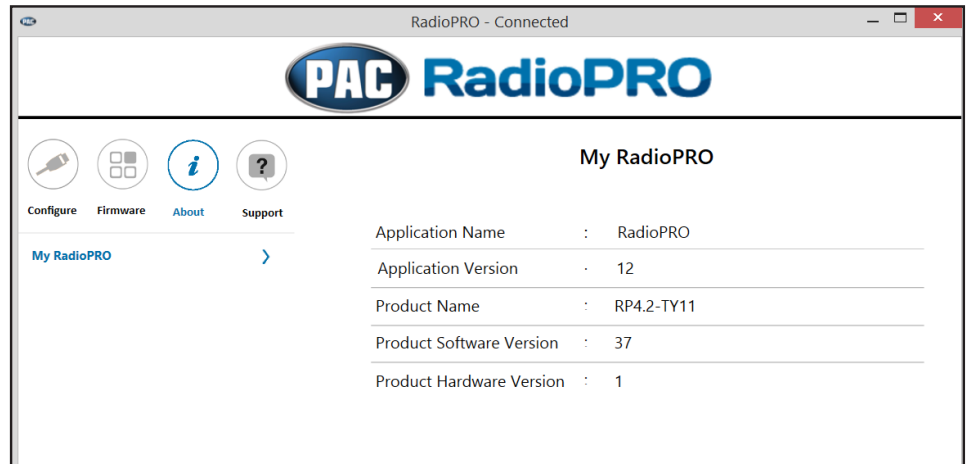
This reset will restore the following settings to their factory defaults:

- SWC Mapping
- Factory Amplifier Settings
- Real Time Fade will be reset to on

RadioPRO App

Use of the RadioPRO App allows you to do the following:

- Configure User Interface Options:
 - Factory amplifier settings (Bass, Mid, Treble, Gain, Fader and Balance)
 - Real Time Fading
- Update Product Firmware
- Read Firmware/Hardware Versions



PLEASE NOTE:

The interface must be connected to the vehicle when using the following features of the Radio PRO App:

- Factory Amplifier Settings

The interface does not need to be connected to the vehicle when using the following features of the Radio PRO App:

- Firmware Updates
- Reading firmware/hardware versions

RadioPRO App (continued)

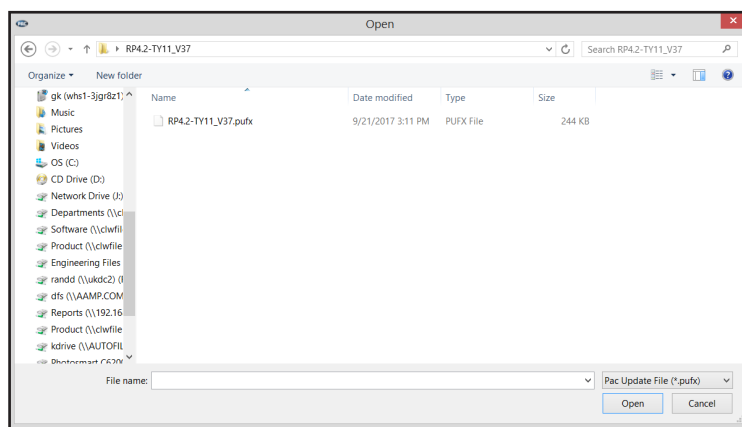
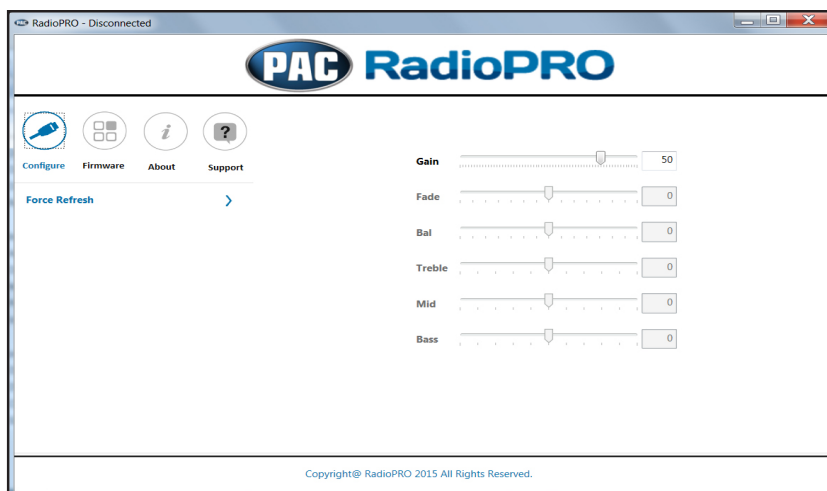
Infotainment/Factory Amplifier Settings

The RadioPRO app will also allow you to adjust the settings of the factory amplifier. You can adjust Amp Gain, Fader, Balance, Bass, Mid and Treble and real time fade. When real time fade is enabled in amplified systems, it will allow fading to be controlled directly from the aftermarket radio. Restoring factory settings on the module will default all values back to middle.

Firmware Updates

The RadioPRO app will also allow you to update the interface with new firmware as it becomes available. Please visit www.pac-audio.com or contact our tech support department to see if there is a firmware update for your interface.

In order to update the interface all DIP switches must be set to the down position. Connect the interface to your PC and select "Update Firmware". Now select "Select File". Finally, browse to the place where you saved the file and select it. This will begin the updating process. Once finished, disconnect the interface from the PC and set the DIP switches back according to the radio you have installed.



Technical Support

Email: support@PAC-audio.com

Phone: 727-592-5991

Chat: [PAC-Audio.com](https://www.pac-audio.com)



Warranty

LIMITED WARRANTY

The quality controls used to manufacture PAC products are designed to ensure your complete satisfaction.

This warranty applies only to the original owner of PAC products purchased from an authorized PAC dealer. It covers PAC products that, upon inspection by authorized PAC personnel, are found to have failed in normal use due to defects in material or workmanship. This warranty does not cover installation expenses.

Attempting to service or modify our products, or operate them outside their recommended usage will render this WARRANTY VOID.

Unless prescribed by law, PAC is not liable for any personal injury, property damage and/or incidental or consequential damages (including water damage) resulting from product malfunctions, defects and/or misuse. PAC is also not liable for any products that are altered or improperly installed.

WARRANTY PERIOD AND PROCESS

Within the first 12 months from date of purchase, subject to the conditions above, PAC will repair or replace product at its sole discretion if it is found to be defective in material or workmanship. Product must be returned to an authorized PAC dealer with PROOF OF PURCHASE.

