SR-TAC16H

Stinger HEIGH10® Radio Replacement Kit
for 2016-2021 Toyota Tacoma

Introduction and Features

The SR-TAC16H is a complete radio replacement kit for the installation of the Stinger HEIGH10® modular radio in Toyota Tacoma trucks equipped with either 6" or 7" factory display radios. 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.

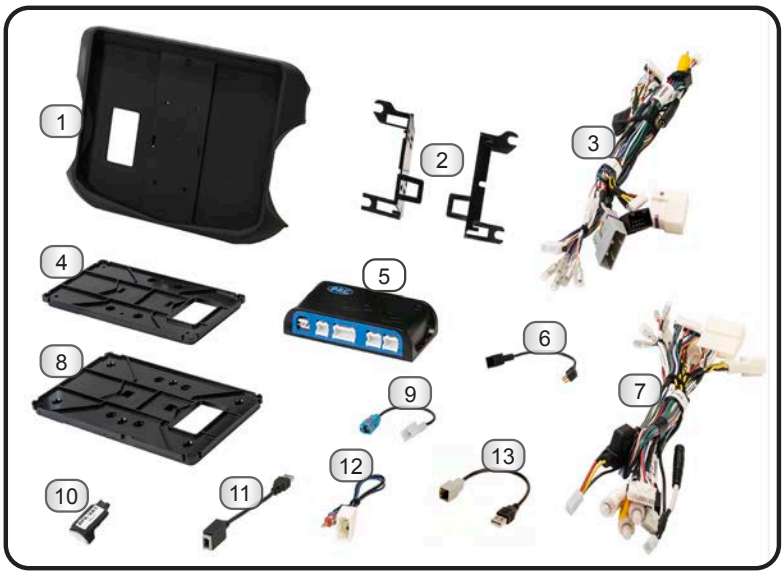
Recommended Tools

10mm Socket
Ratchet
Phillips Screwdriver
Flush Cutters
Painters Tape

Included Components

1. ***HEIGH10 Display Mounting Panel***
2. ***Side Brackets (TOYK971/974)***
3. ***Main Harness 2019-2021 (SR-TAC19H-HAR)***
4. ***6" Mounting Plate (TAC16H-6)***
5. ***Radio Interface (RP4.2-TY11)***
6. ***Satellite Radio Antenna Adapter (SAT-01)***
7. ***Main Harness 2016-2018 (SR-TAC16H-HAR)***
8. ***7" Mounting Plate (TAC16H-7)***
9. ***GPS Antenna Adapter (GPS-03)***
10. ***Differential Video Adapter (RPA-VA1)***
11. ***USB Adapter (USB-TY3)***
12. ***AM/FM Antenna Adapter (RPA-VA1)***
13. ***USB Adapter (USB-TY1)***

NOTE: Along with the SR-TAC16H components, additional hardware and wire harnesses from the HEIGH10 (UN1810) kit will also be used in the installation. Refer to the UN1810 Installation Guide for harness and hardware descriptions.



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

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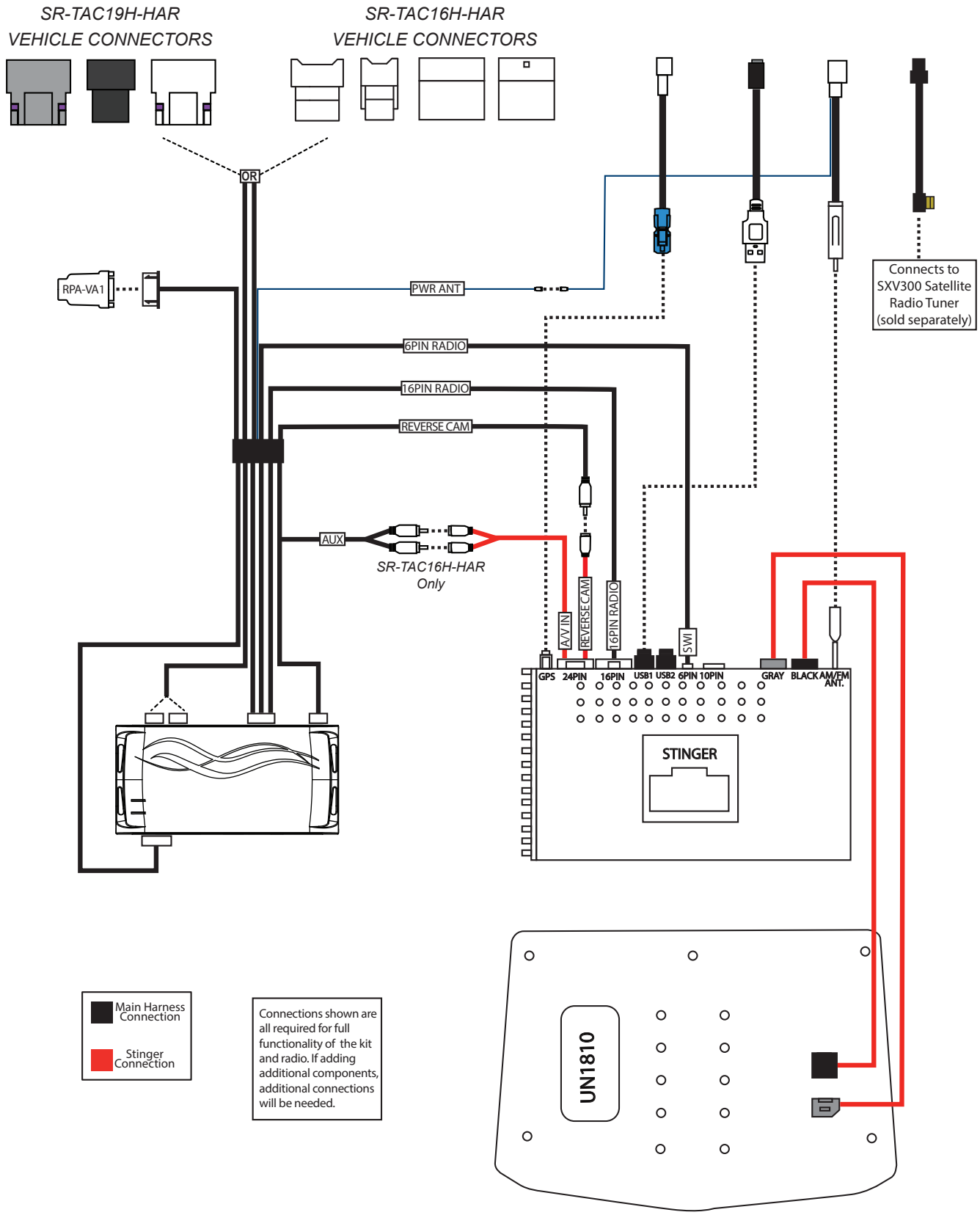
Wiring Overview



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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 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 your hands or soft tool, pull and remove the radio trim and air vent panel.

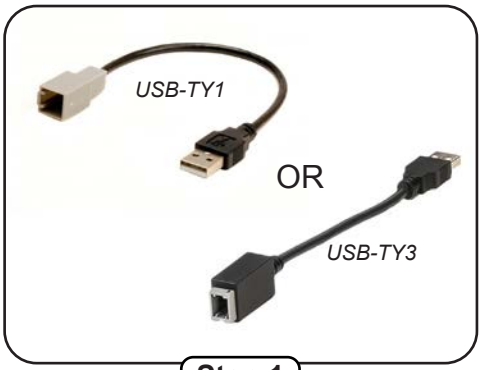
Step 2

Remove the four 10mm bolts securing the radio. Remove the radio from the sub-dash.

Step 3

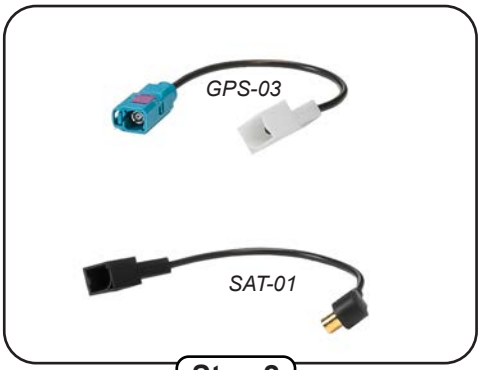
Remove all connectors and cables from the back of the radio.

Section 2: In-Vehicle Harness Preparation



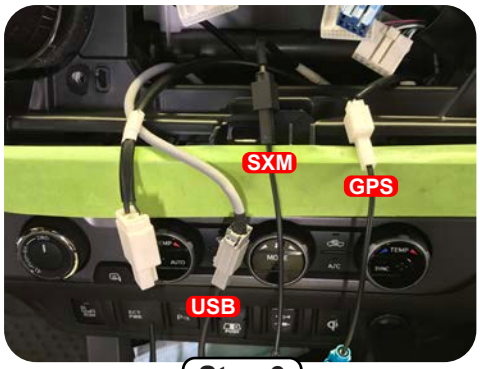
Step 1

From the SR-TAC16H kit, locate the correct USB adapter:
2016-2018 uses *USB-TY1*
2019-2021 uses *USB-TY3*



Step 2

From the SR-TAC16H kit, locate the GPS Antenna Adapter and Satellite Antenna Adapter if installing a SXM tuner.



Step 3

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

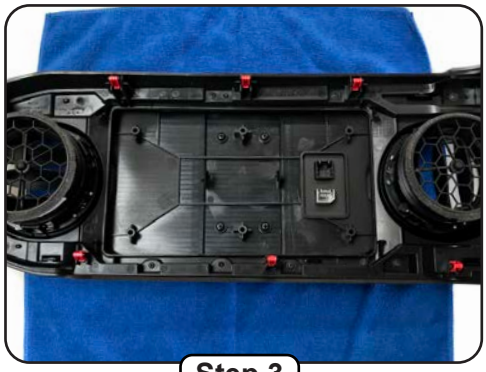
Section 3: Display Mounting Panel Preparation

Step 1

Place the HEIGH10 display into the mounting panel. Carefully turn the panel over while holding the display in place.

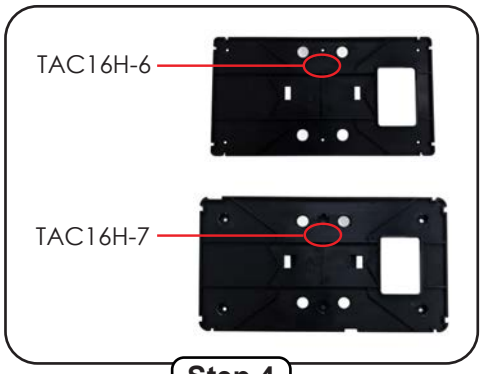
Step 2

With the display face down on a soft surface, attach the display to the panel using four M4 x 12 screws from the HEIGH10 hardware pack.



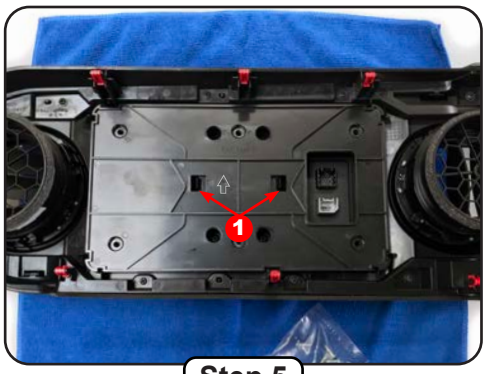
Step 3

Place the factory radio/air vent panel face down on the back of the display mounting panel as shown.



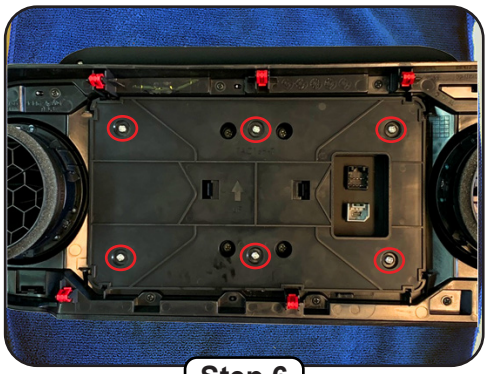
Step 4

From the SR-TAC16H kit, choose the appropriate mounting plate. TAC16H-6 is used when replacing a 6” factory display and TAC16H-7 is used when replacing a 7” factory display radio.



Step 5

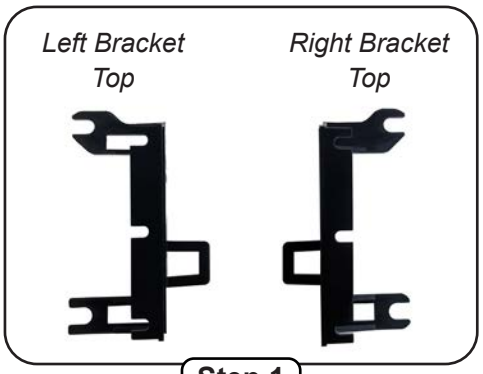
With the arrow pointing up, align the mounting plate to the locking clips (1) and push down until both clips engage. Move the panel side-to-side to ensure the mounting panel is centered.



Step 6

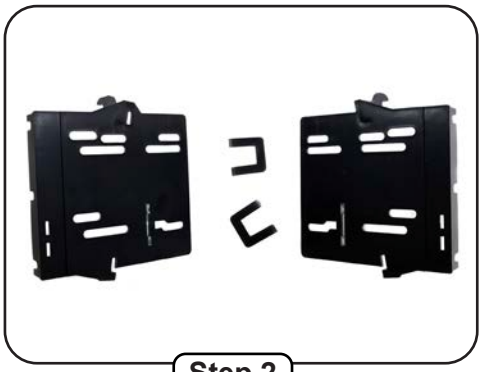
Secure the mounting plate to the display main frame using six M4 X 12 screws provided in the SR-TAC16H kit.

Section 4: Radio Module Preparation



Step 1

Locate the left and right side brackets included in the SR-TAC16H kit and four M5 X 10 screws from the HEIGH10 hardware.

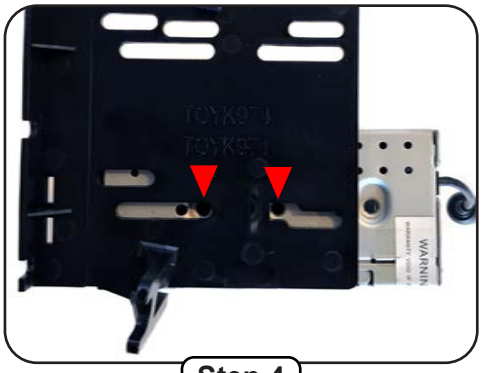


Step 2

Remove the tabs located on the inside of the left and right side brackets.

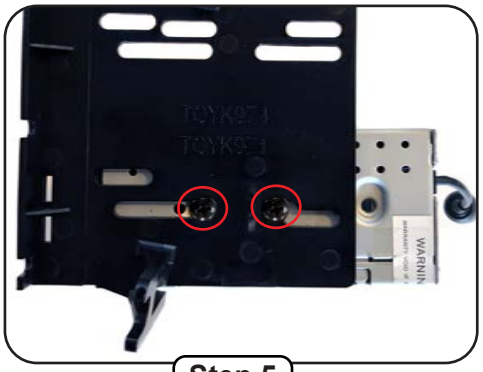
Step 3

The HEIGH10 Radio Module will be mounted using the lower slots on the side brackets. The Radio Module will be inverted and set back ¾".



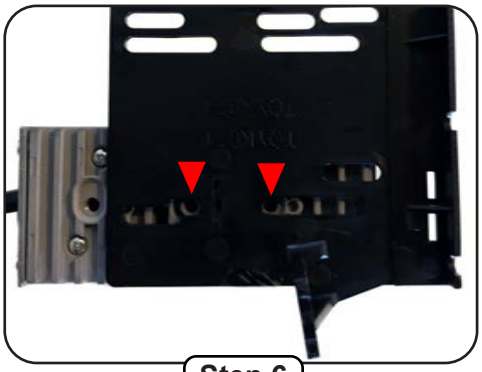
Step 4

Position the right side bracket as shown and align the bracket to the mounting holes indicated.



Step 5

Secure the right side bracket using two M5 x 10 screws from the HEIGH10 hardware.

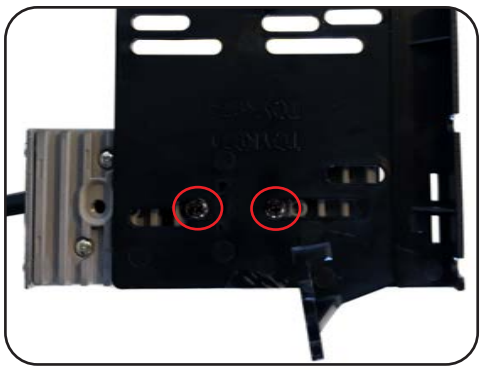


Step 6

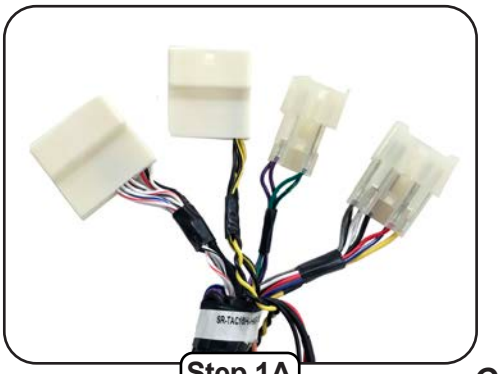
Position the left side bracket as shown and align the bracket to the mounting holes indicated.

Step 7

Secure the left side bracket using two M5 x 10 screws from the HEIGH10 hardware.



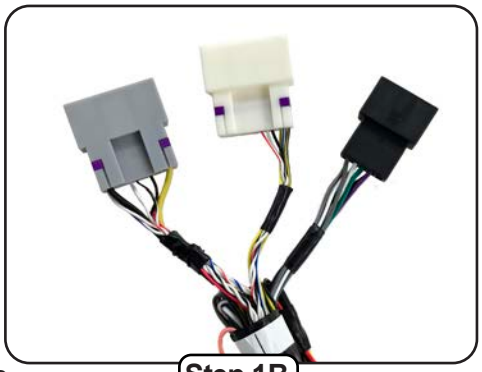
Section 5: Interface and Main Harness Connections



Step 1A

For 2016-2018 Tacoma, the SR-TAC16H-HAR (4-Plug) Main Harness will be used.

OR

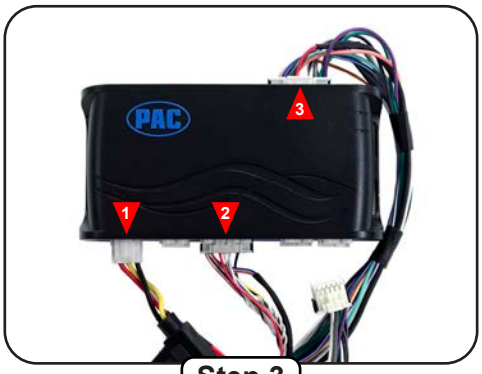


Step 1B

For 2019-2021 Tacoma, the SR-TAC19H-HAR (3-Plug) Main Harness will be used.

Step 2

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

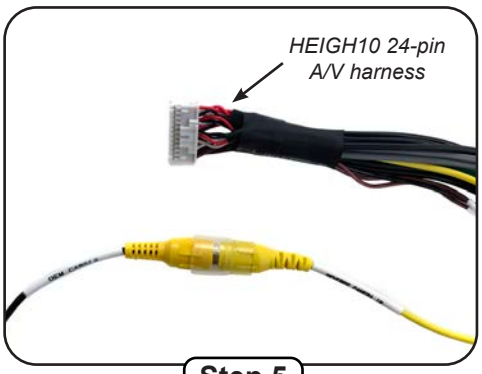


Step 3

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.

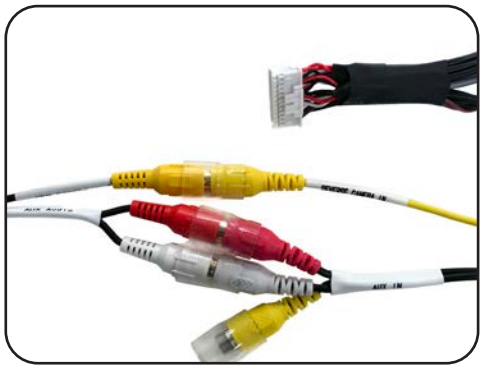


Step 5

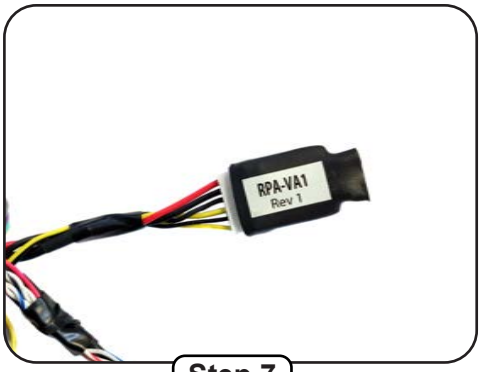
Connect the OEM Camera RCA on the main harness to the Reverse Camera In RCA on the HEIGH10 24-pin A/V harness.

Step 6

For 2016-2018 Tacoma using the SR-TAC16H-HAR harness, connect the pair of RCA's labeled AUX AUDIO to the AUX IN RCA's on the HEIGH10's 24-pin A/V Harness.

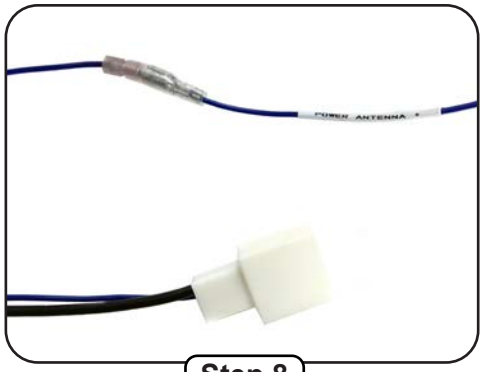


Section 5: Interface and Main Harness Connections (cont.)



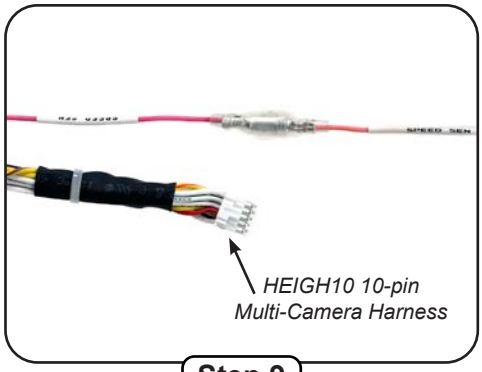
Step 7

From the SR-TAC16H kit, connect the RPA-VA1 Video Adapter to the 6-pin plug on the main harness.



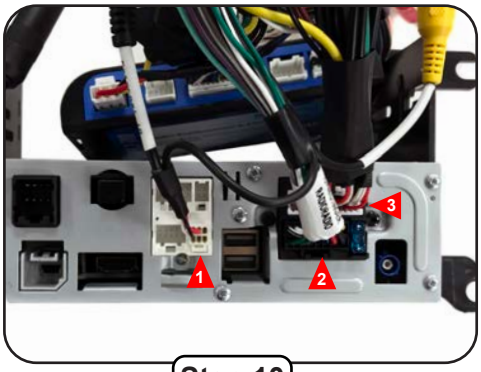
Step 8

Connect the blue wire on the BAA44 Antenna Adapter to the blue POWER ANTENNA + lead on the main harness.



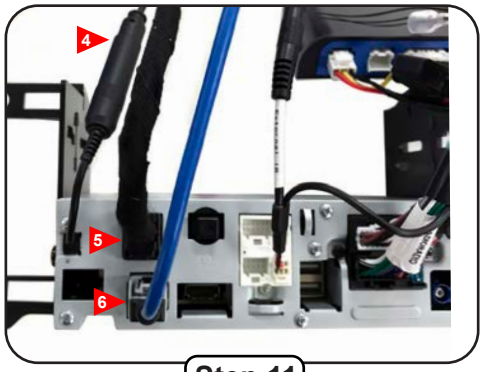
Step 9

Connect the SPEED SEN wire on the HEIGH10's 10-pin Multi-Camera harness to the SPEED SEN wire on the main harness.



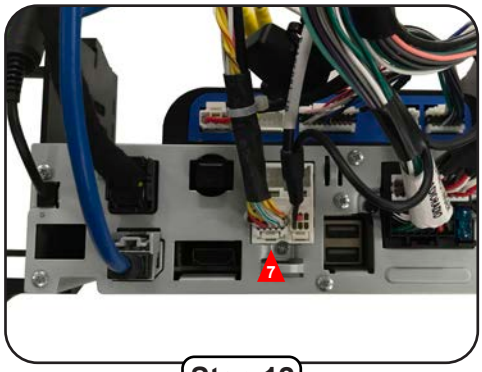
Step 10

From the main harness, plug the 6-pin (1) and 16-pin (2) plugs into the HEIGH10 Radio Module. Plug in the HEIGH10 24-pin A/V harness (3).



Step 11

Connect the AM/FM antenna (4). From the HEIGH10 harnesses, plug in the 8-pin (5) and LVDS (6) display cables into the radio module.

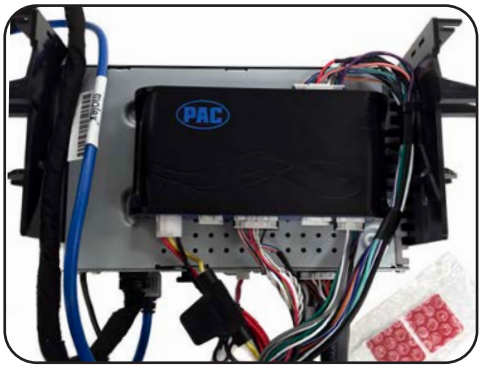


Step 12

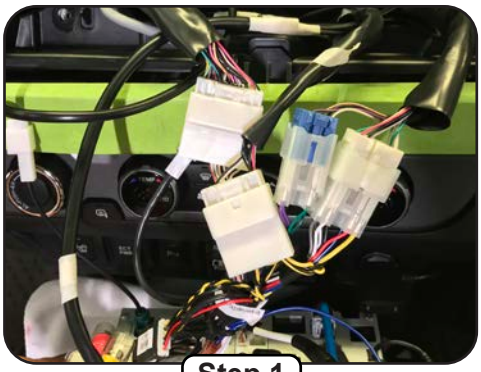
Plug in the 10-pin Multi-Camera harness (7).

Step 13

Using the supplied two-sided tape, mount the interface to the top of the radio module. Position the interface so that it does not cover the vent holes.



Section 3: In-Vehicle Connections and Radio Unit Installation

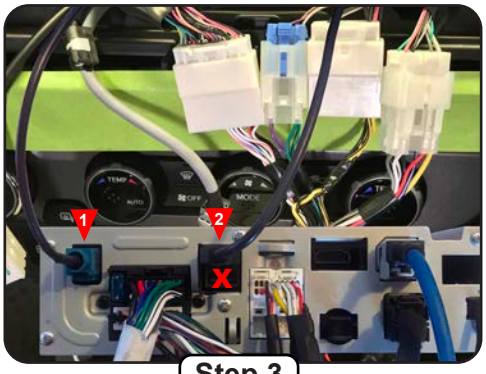


Step 1

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

Step 2

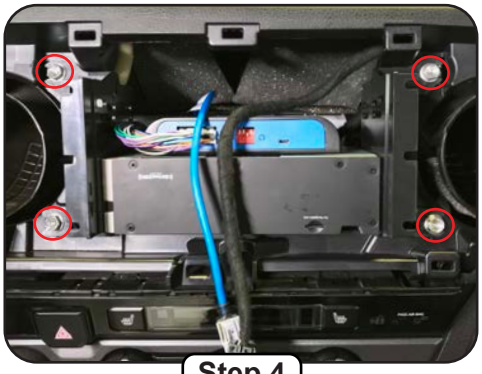
Connect the BAA44 antennna adapter to the vehicle's antenna connector.



Step 3

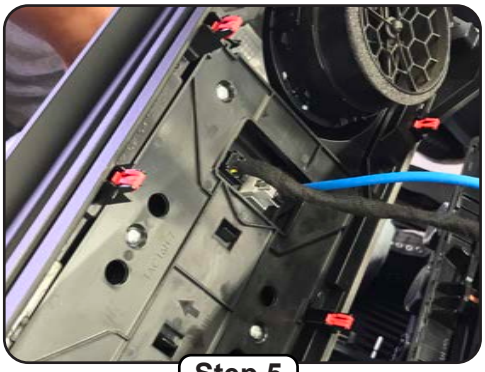
Plug in the GPS (1) and USB (2) adapters. Note: The USB cable must be plugged into the USB port closest to edge of the radio chassis for Apple CarPlay and Android Auto.

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.



Step 4

With the two display cables routed over the top of the radio assembly, slide the assembly into position and re-install the four factory 10mm bolts.



Step 5

Plug in the 8-pin and LVDS display cables into the back of the display.

Step 6

Re-install the factory radio/air vent panel by aligning the retaining clips and pushing until all the clips engage.

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
- Parking Brake Output Settings
- Factory Amplifier Settings
- Real Time Fade will be reset to on

Firmware Updates (Stinger HEIGH10)

To update the Stinger radio firmware, refer to the HEIGH10 product page at:
www.stingerelectronics.com/products/heigh10

RadioPRO App

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

- Configure User Interface Options such as:
  - Aftermarket radio Parking Brake Sequencing
  - Factory amplifier settings (Bass, Mid, Treble, Gain, Fader and Balance)
  - Real Time Fading
- Update Product Firmware
- Read Firmware/Hardware Versions
- Access Product User Manuals

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 (cont.)

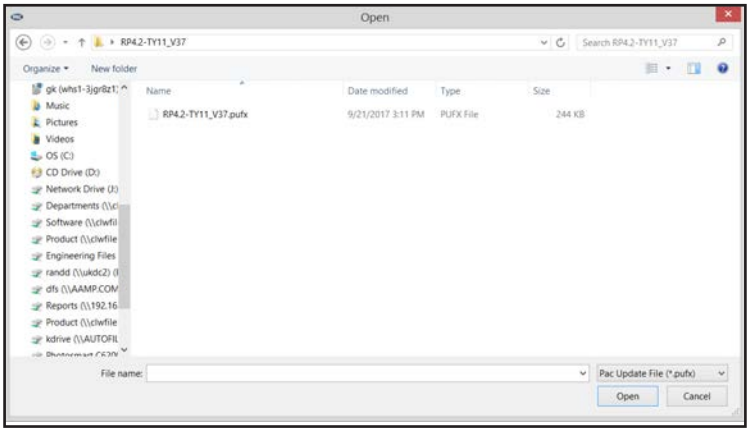
Infotainment/Factory Amplifier Settings

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

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