

## NNG-Toyota RAV4

Navigation System for Toyota RAV4 (with APPs) NTV-KIT604



### NNG-Toyota Rav4 Kit Content



- 1. Toyota Rav4 GPS Interface
- 2. Toyota Rav4 Internal Modification PCB
- 3. Toyota Rav4 Plug & Play T-Harness
- 4. LCD/TP PCB Y-Cable
- 5. LCD/TP I/O Cables
- 6. Audio Switch Module
- 7. GPS Antenna

#### 2014 Toyota RAV 4 (with APPS) Dash / Radio Removal

WARRANTY DISCLAIMER NOTICE! Radio removal, disassembly, installation of Navigation Electronics, and Radio re-assembly / re-installation is the responsibility of the installer. It is recommended that you contact a professional installer that is experienced with proper work methods involving electronics and knowledgeable of specific procedures for radio disassembly, Navigation Electronics installation, and reassembly / re-installation of the Radio Head Unit in the vehicle. INSTALLATION DAMAGE TO THE VEHICLE RADIO HEAD UNIT IS EXPRESSLY NOT COVERED UNDER THE PRODUCT WARRANTY.

To avoid dangerous distractions that may lead to an accident, the driver should never operate the system while the vehicle is in motion. Before installing the product, the seller should inform the end-user of proper use and compliance with the proper instructions and all states and federal laws.

Before beginning your installation, familiarize yourself with the installation instructions and the Navigation system components.

**CAUTION:** It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting.



Factory Radio / Dash





Pull and remove clock / hazard from dash

Pull and remove top trim piece by hand



Pull and remove both AC vents from dash

#### 2014 Toyota RAV 4 (with APPS) Dash / Radio Removal (cont.)



Remove (4) 10 mm bolts from radio bracket



Remove (3) screws from side mounts



(2) bolts on top and (2) on the sides



Remove (6) screws from side brackets



Trim **RIGHT** side mount as shown for cable exit



Wire exit location



Carefully pry (9) tabs around the radio front LCD panel and carefully remove from radio chassis.

Remove (3) screws from factory board, will replace with supplied screws

#### NTV-DOC222

#### 2014 Toyota RAV 4 (with APPS) PCB Installation



Lay New PCB on top as shown



Remove factory touch screen and display ribbon cable; connect NEW ribbon cables to factory board; RECONNECT factory ribbon cables to NEW PCB connections. (All ribbon locations and connections should align coordinately)



Remove ribbon cable from side control board; flip and reconnect to the NEW PCB board



Insert 2in1 TP LCD cable as shown (metal face up)

Cable exit location as shown

#### 2014 Toyota RAV 4 (with APPS) PCB Installation (cont.)



2in1 TP LCD Cable should exit as shown with modified right side mount

Carefully RECONNECT the radio chassis ribbon cable at the center of the unit

Close the radio chassis with care and re-install all the mounts, bracket and XM/HD radio module

#### 2014 Toyota RAV 4 (with APPS) GPS Module Installation



Review the overall wire connections in the figure above



(3) T-Harness for Radio



Connection at GPS Module



Connections for Audio Box



Data Out / LCD Out connections

#### 2014 Toyota RAV 4 (with APPS) GPS Module Installation (cont.)



Data Out / LCD Out extension connections (noted the orientation of plugs and wire color coordination)

Connect GPS Antenna to GPS Module (best GPS Antenna location is under passenger side Apillar cover, on top of dash)

Test system thoroughly before re-assemble of the radio and dash

Test reverse camera function

Test driver side speaker integration function (mute and voice from navigation software)

# Press and hold "HOME" button on left side of radio for activation of navigation screen



#### 2014 Toyota RAV 4 (with APPS) Trouble Shooting

Please follow all the steps in this installation manual, failure to do so might void the product warranty and damage the factory radio

#### <u>Power</u>

2014 Toyota Rav4 Radio will have factory loading screen whenever the power is disconnected. It is normal to see factory loading screen for about 1-2 minutes before the radio is operational.

#### **Display**

No Display

- 1. There are two led lights at the GPS module to indicate data and power. If led lights are OFF and radio is ON, check the power fuse inside the black box from the main harness
- 2. Check all wiring connectors for any loose connection
- 3. Check all wiring shielding for any damage during the installation process
- 4. Check all wiring for any type of damage
- 5. Check PCB ribbon cables for loose, misalignment, or damage

#### No Touch Response

- 6. Check both Radio mode and NAV mode for touch responses
- 7. Check led lights for power and data indications
- Check 2in1 TP/LCD IN cable for any loose connection, or damage
- 9. Check PCB ribbon cables for loose, misalignment, or damage

#### No GPS software loaded, touch screen alignment screen occurred

Check map SD card at GPS module, see any sign of missing, loose, pop-out, misalignment, or damage

#### <u>Sound</u>

- 1. Check all cable for connections to Audio Box for loose, or damage
- 2. Check software volume settings, ensure volume is not muted
- 3. Check connections at radio for loose, damaged wires