

# NAV-TV

INTERFACING THE FUTURE

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## NNG-Toyota 6

Navigation interface for '15-'16 Toyota Sienna

*NTV-KIT625*



# NNG-Toyota 6 Kit Content



1. Toyota 6 GPS Interface
2. Toyota 6 Internal Modification PCB
3. Toyota 6 Internal Modification Ribbon
4. Toyota 6 Plug & Play T-Harness
5. Audio Switch Module
6. TP/LCD Cable (mod PCB to inf)
7. Audio IN/OUT Y-Cable
8. Audio Plug & Play T-Harness
9. GPS Antenna
10. OEM/NAV Toggle Switch
11. AUX A/V Input/Output RCA Cables
12. Video Input RCA Cable

## Toyota 6 navigation system application guide

2015 – 2016 Sienna (Pioneer Apps Radio) P10692

\*\* Toyota 6 navigation system only compatible to vehicles listed above. Only compatible radio is Pioneer Apps radio (Entune Plus radio with 7" touch screen). Please verify the radio has APPS button on front plate for this system to install and work properly.

**This system only applicable to the *Pioneer* radio. If your radio is NOT a Pioneer radio (usually be identified with “P” in front of the radio number located on the radio front plate), please contact your distributor immediately. Any damage to this installation by wrongly attempt to install inapplicable combination will not be warranted.**

**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 re-assembly / 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.

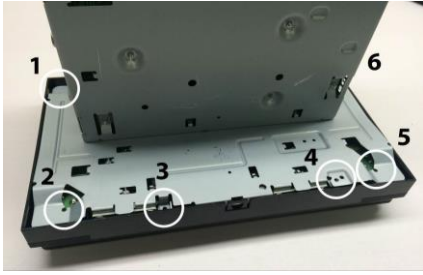
Before beginning your installation, familiarize yourself with the installation instructions and the Navigation system components.

**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.

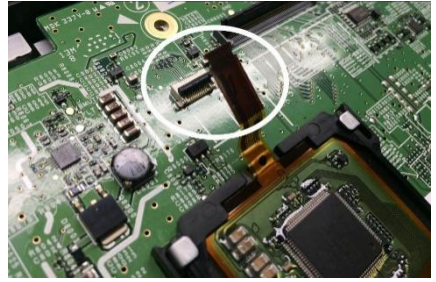
**This is a general installation guide for navigation system only. There will not be any instruction on dash / radio removal. Please refer to Toyota service manual for removing radio from dash.**



## Toyota 6 Navigation System Installation



Remove (6) small screws as indicated

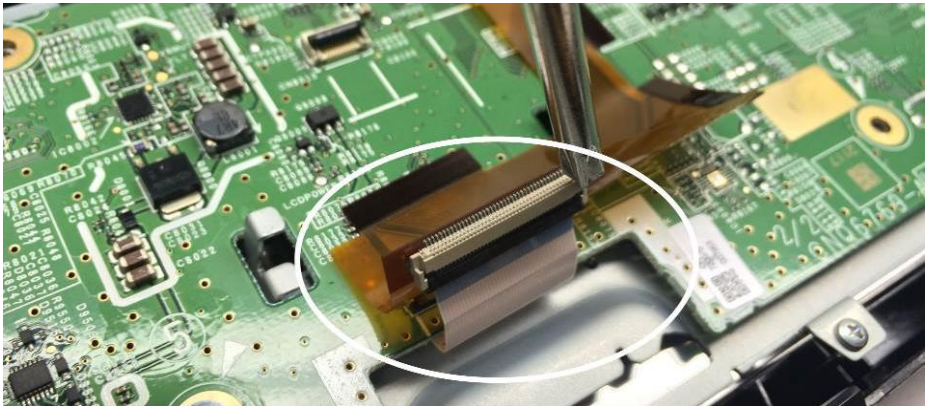


Remove factory ribbon cable from socket



Carefully slide out the factory touch PCB to expose factory video ribbon cable

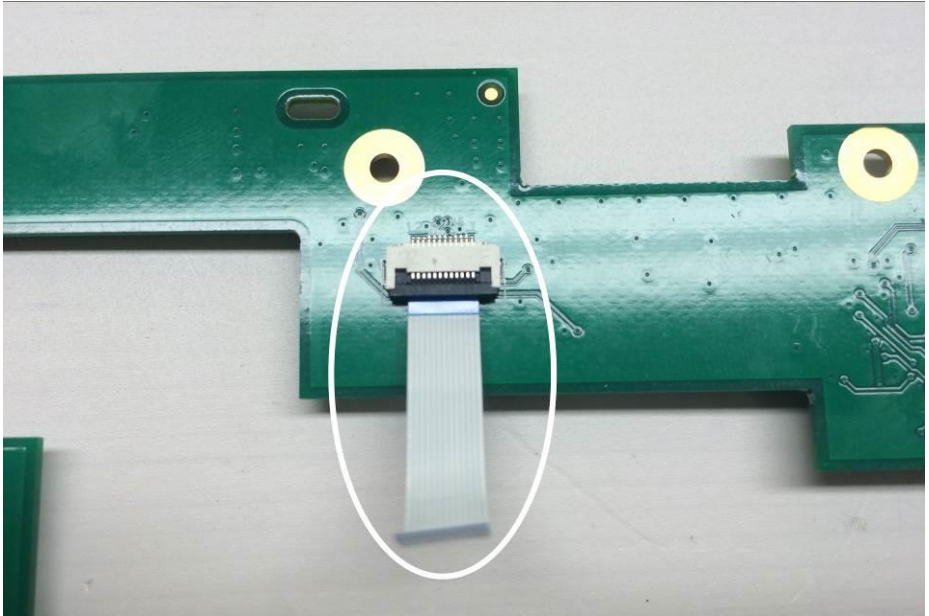
Remove the factory video ribbon cable from socket



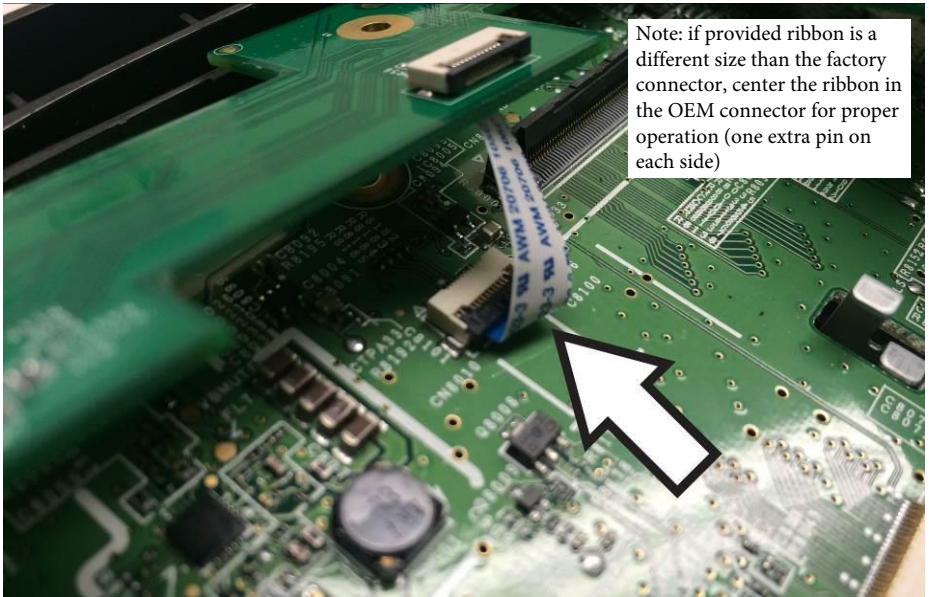
Slide and install the factory ribbon cable to the supplied brown ribbon cable as shown above

Length and space is very limited, ensure the ribbon cable is fully and squarely seated into the socket before clamping down.

## Toyota 6 Navigation System Installation



Insert the small touch ribbon cable to the NEW PCB as shown (contacts should be downward)

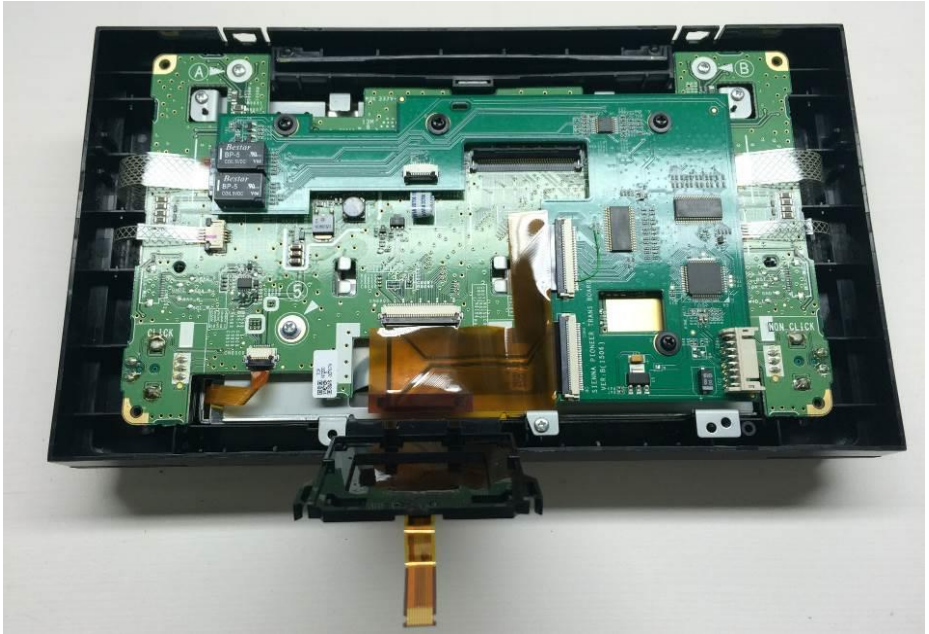


Carefully insert the touch ribbon into the factory board as shown.

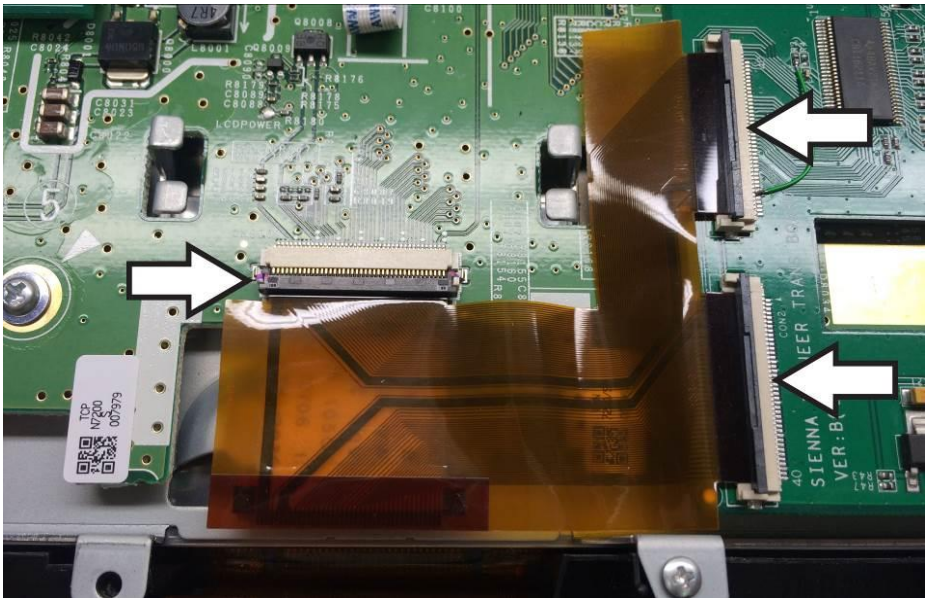
A light push might be needed to help inserting the touch ribbon cable, ensure fully and squarely seated before clamping down.



## Toyota 6 Navigation System Installation



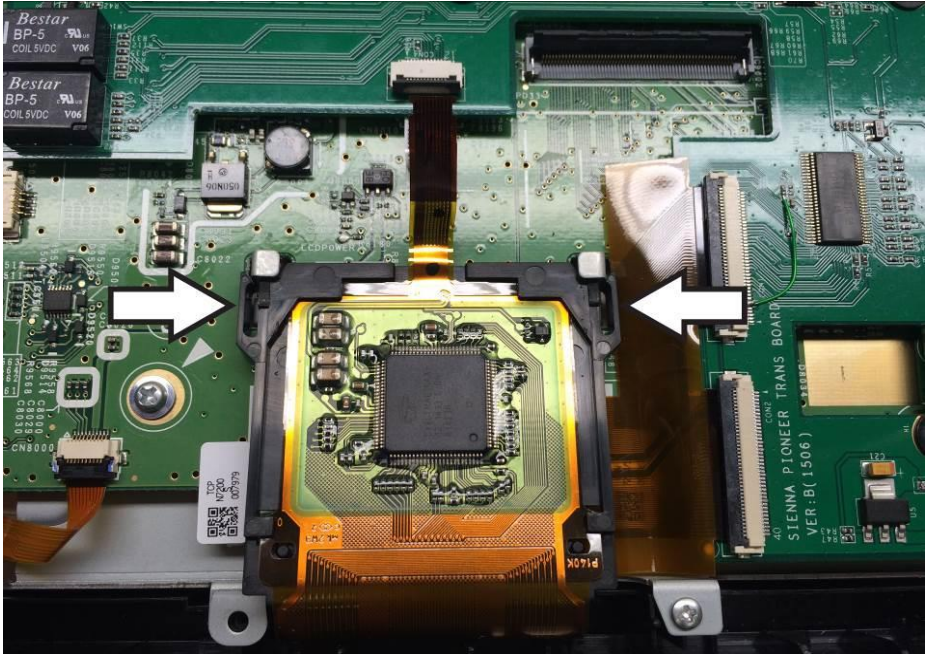
Place NEW PCB as shown



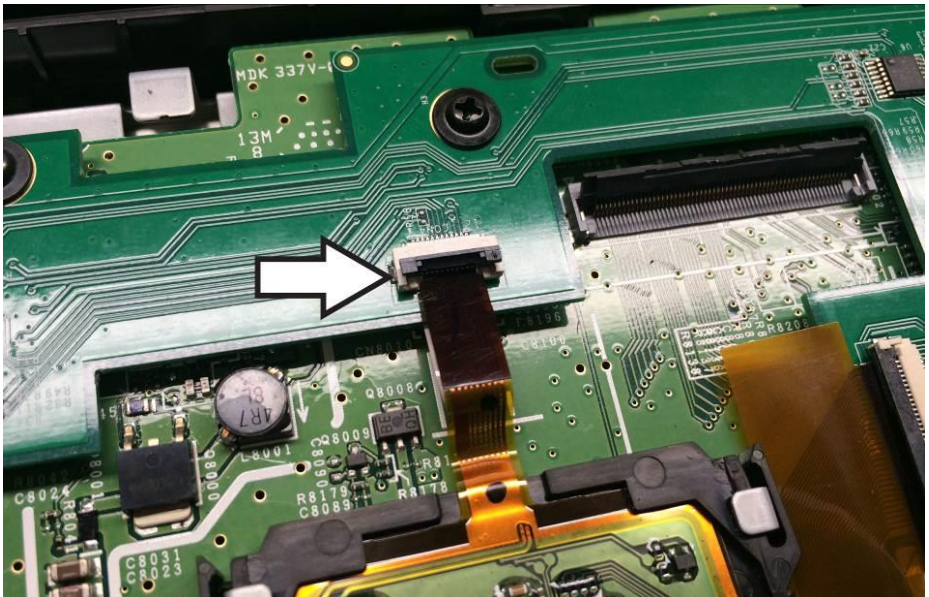
Insert the 3-way ribbon as shown with extreme care

3-way ribbon cable required extreme care as the traces are very close to the edges. ***(FAILURE TO HANDLE THIS RIBBON WILL RESULT IN DELAY AND COST OF REPLACEMENT)***

## Toyota 6 Navigation System Installation



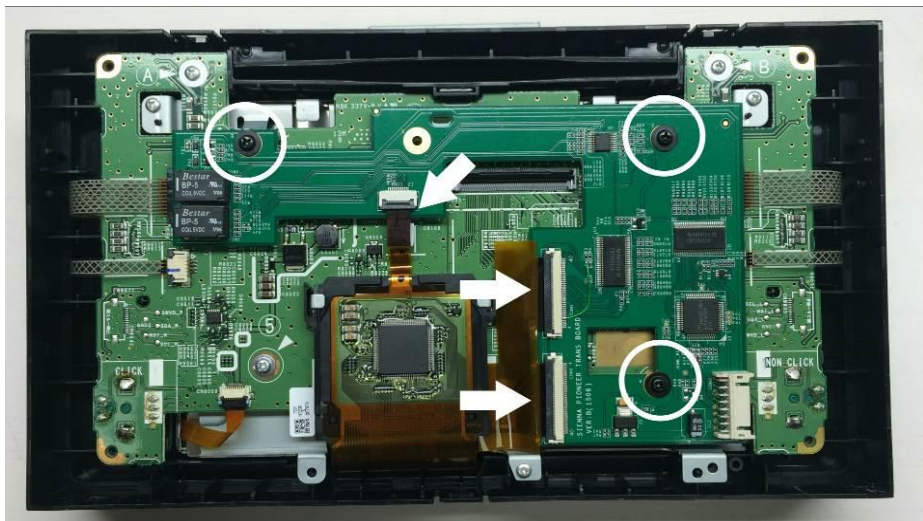
Flip and slide in the factory touch PCB as shown



Insert the factory touch ribbon into the NEW PCB



## Toyota 6 Navigation System Installation



Use the supplied (3) screws and (3) plastic spacers to secure the NEW PCB in place as shown  
Ensure all ribbon cables are insert fully and squarely into the sockets

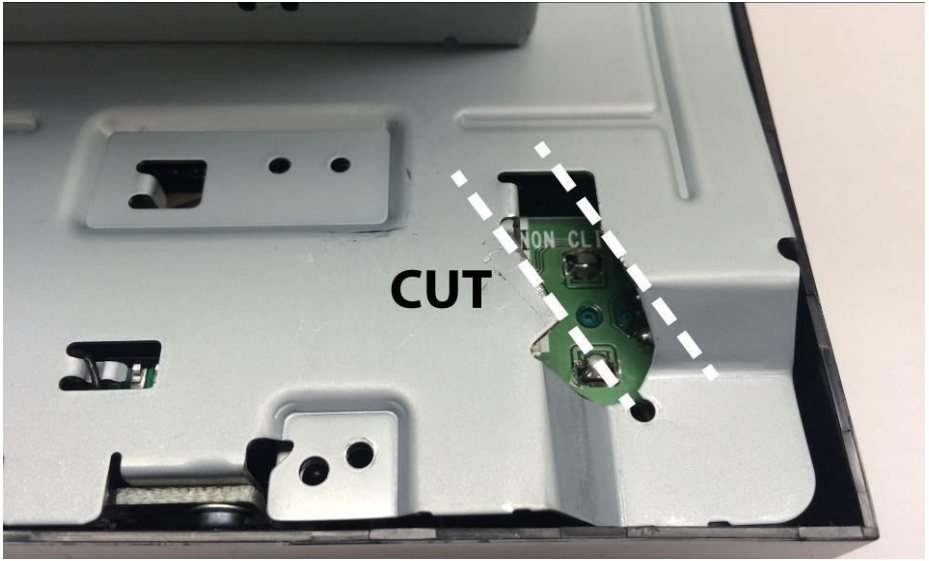


Prepare the radio chassis by flattened the grounding leg as indicated

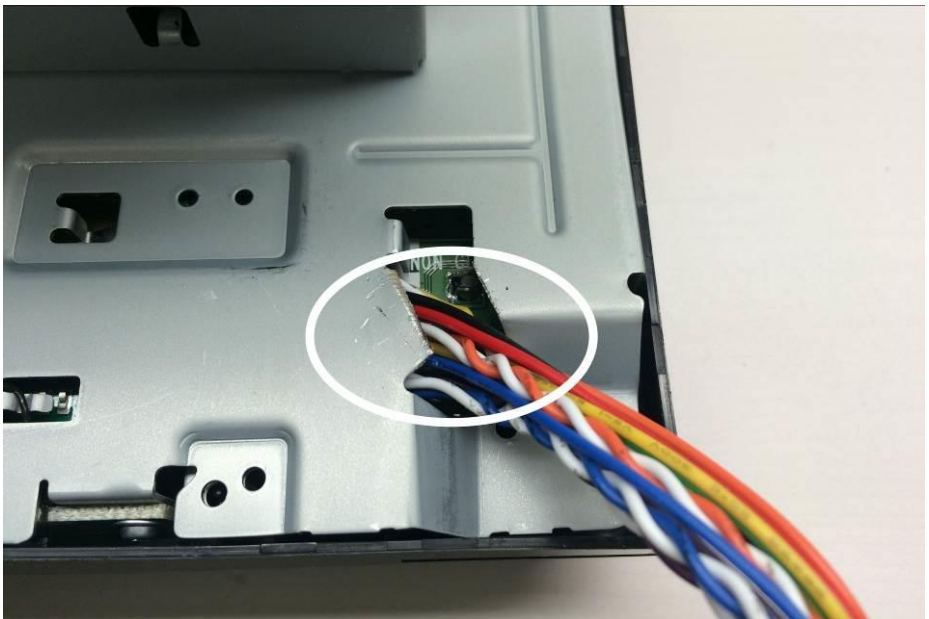
***(FAILURE TO DO THIS MODIFICATION MIGHT RESULT IN PCB DAMAGE, DELAYS AND COST OF REPLACEMENT)***



## Toyota 6 Navigation System Installation



Cut the radio back plate as shown, before reinstalling the radio chassis for the harness to exit.

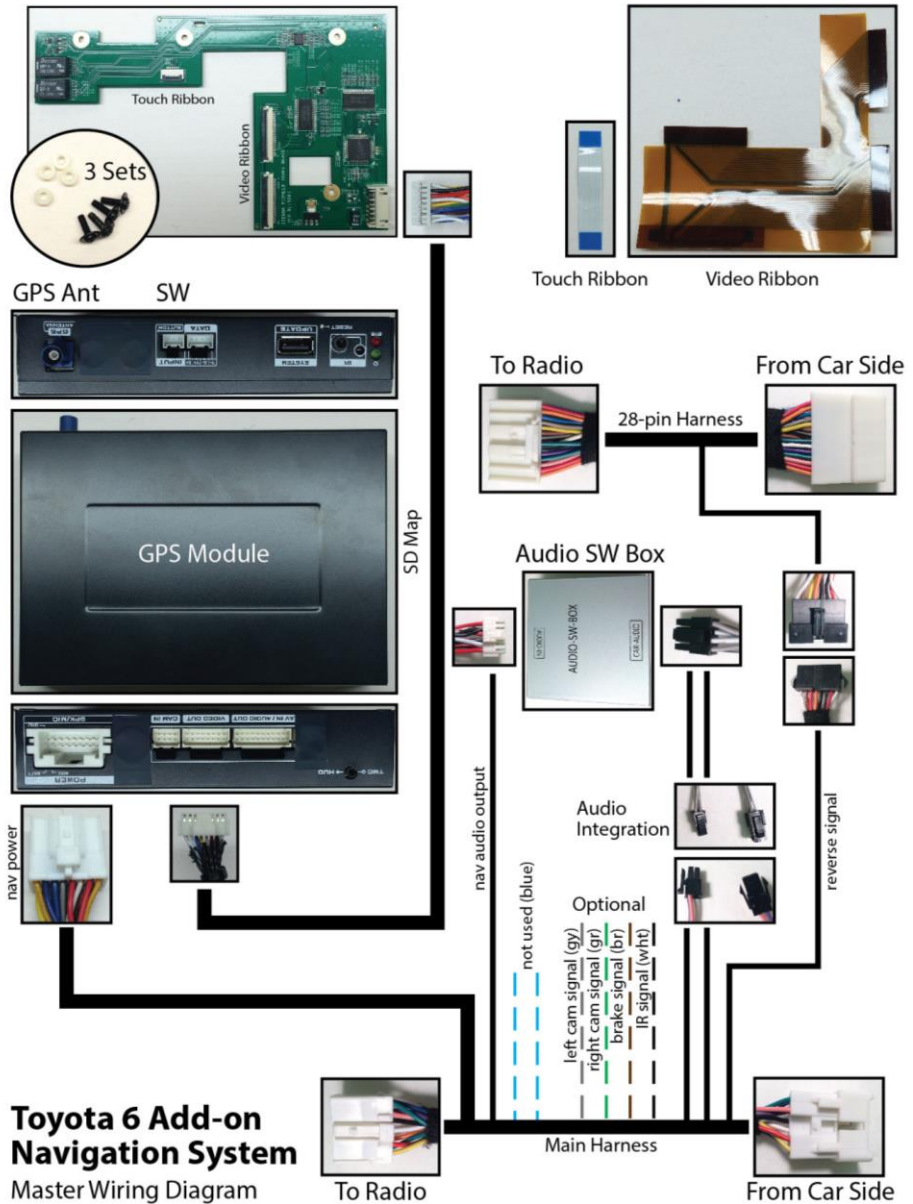


Insert the video / touch cable to the NEW PCB and exit the harness through the modified hole.

Reinstall (6) small screws to the radio.

# Toyota 6 Navigation System Installation

## Master Wiring Diagram



**Toyota 6 Add-on Navigation System**  
Master Wiring Diagram

Refer to previous page for system wiring connections



# Toyota 6 Navigation System Installation

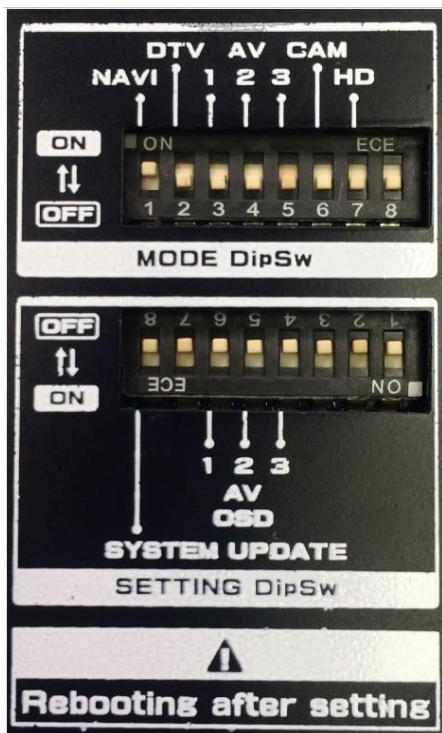
Connect GPS Antenna to GPS Module (best GPS Antenna location is under passenger side A-pillar cover, on top of dash)

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

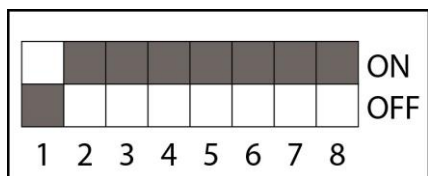
Test reverse camera function

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

## Dip Switch Setting

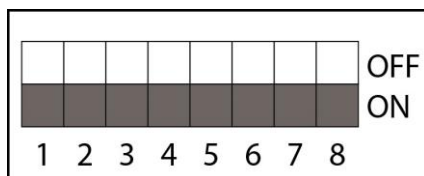


Default DIP switch setting



Mode Dip Switch Setting

DIP Switch 6 Factory camera – OFF  
Aftermarket camera – ON



Setting Dip Switch Setting

DIP Switch 1 Interface menu - OFF  
Hardware menu - ON

# Toyota 6 Navigation System Installation

## Options



Video Input harness



Camera Input harness

The Toyota 6 system is designed to accept multiple video and camera inputs, these harnesses are sold separately and require different system settings. Please contact us if you are interested in these optional features.

## FAQ

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

## Power

GPS Module has (2) led lights as indicators when system is powered on. Both led lights should be lit when installed properly (if on). If any of the light is dimmed, you should check for B+ and ACC power sources at the main connector.

## 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



## **Toyota 6 Navigation System Installation**

### **No Touch Response**

1. Check both Radio mode and NAV mode for touch response
2. Check led lights for power and data indication
3. Check TP/LCD IN cable for any loose connection, or damage
4. 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

### **Sound**

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

If issues still exist, please check all cables, pins, connectors, clips and ribbon cables for loose, and damage when you encounter technical difficulties.

Whenever you are installing electronic components to the vehicle, it is always recommended to disconnect the battery and air-bag module before beginning any work.

Please refer to the WARNING DISCLAIMER at the beginning of this installation before contacting us for any warranty claims.