

# NAV-TV

INTERFACING THE FUTURE

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## NNG-Toyota 2

Navigation interface for select Toyota vehicles

*NTV-KIT607*



# NNG-Toyota 2 Kit Content



1. Toyota 2 GPS Interface
2. Toyota 2 Internal Modification PCB
3. Toyota 2 Plug & Play T-Harness (power)
4. Toyota 2 secondary Plug & Play T-Harness
5. LCD/TP I/O Cables
6. LCD/TP PCB Y-Cable
7. Audio Switch Module\*
8. Audio IN/OUT Y-Cable
9. Rear-LCD Harness
10. GPS Antenna
11. OEM/NAV Toggle Switch

*\*Note: Depending upon availability, the Toyota 2 may include a stand-alone speaker instead of an Audio Switching Module for NAV voice guidance. See wiring diagram for audio connection.*



# Installation Guide

## Navigation For RAV4

### STEP 1



Remove A/C VENT

### STEP 2



Remove 4 Screws from radio

### STEP 3



REMOVED RADIO

### STEP 4



Remove radio mount

### STEP 5



REMOVED CLIP

### STEP 6

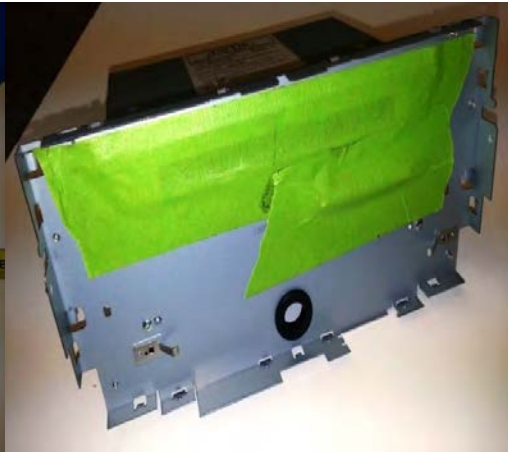


Remove all screws to open up the LCD screen

# Installation Guide

## Navigation For RAV4

### Drill a Hole to run Video Cable



1. Place Mask tape on radio to avoid drilling scrap
2. At bottom of the radio, center of the radio, drill a hole



1. Place the LCD ribbon in the factory LCD Screen board
2. Place the Factory LCD Ribbon into daughter board ( As a Y-Connection)



1. Place the Touch screen ribbon in factory LCD Screen board
2. Place the Factory Touch Screen Ribbon into daughter board (As a Y-Connection)

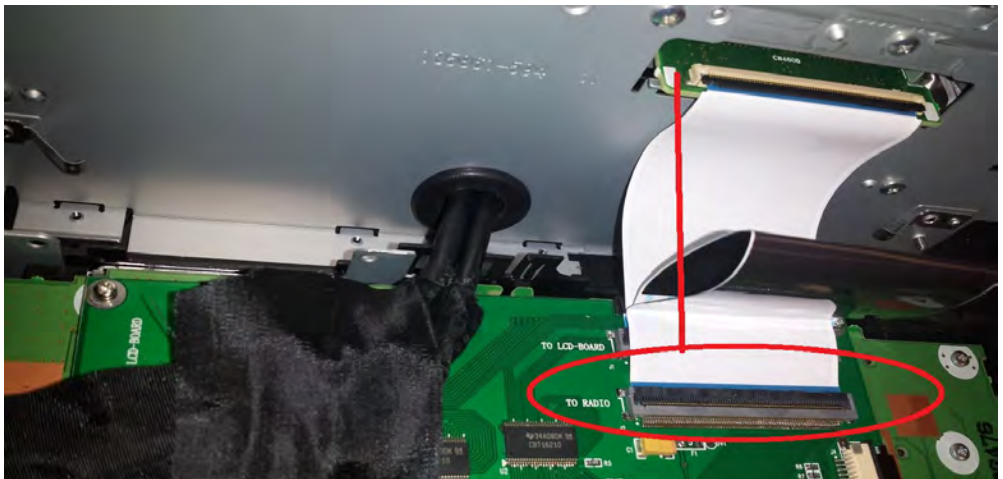
# Installation Guide

## Navigation For RAV4

### Install Video Board



Place 3 Spacers and 3 Screws to the red circle position

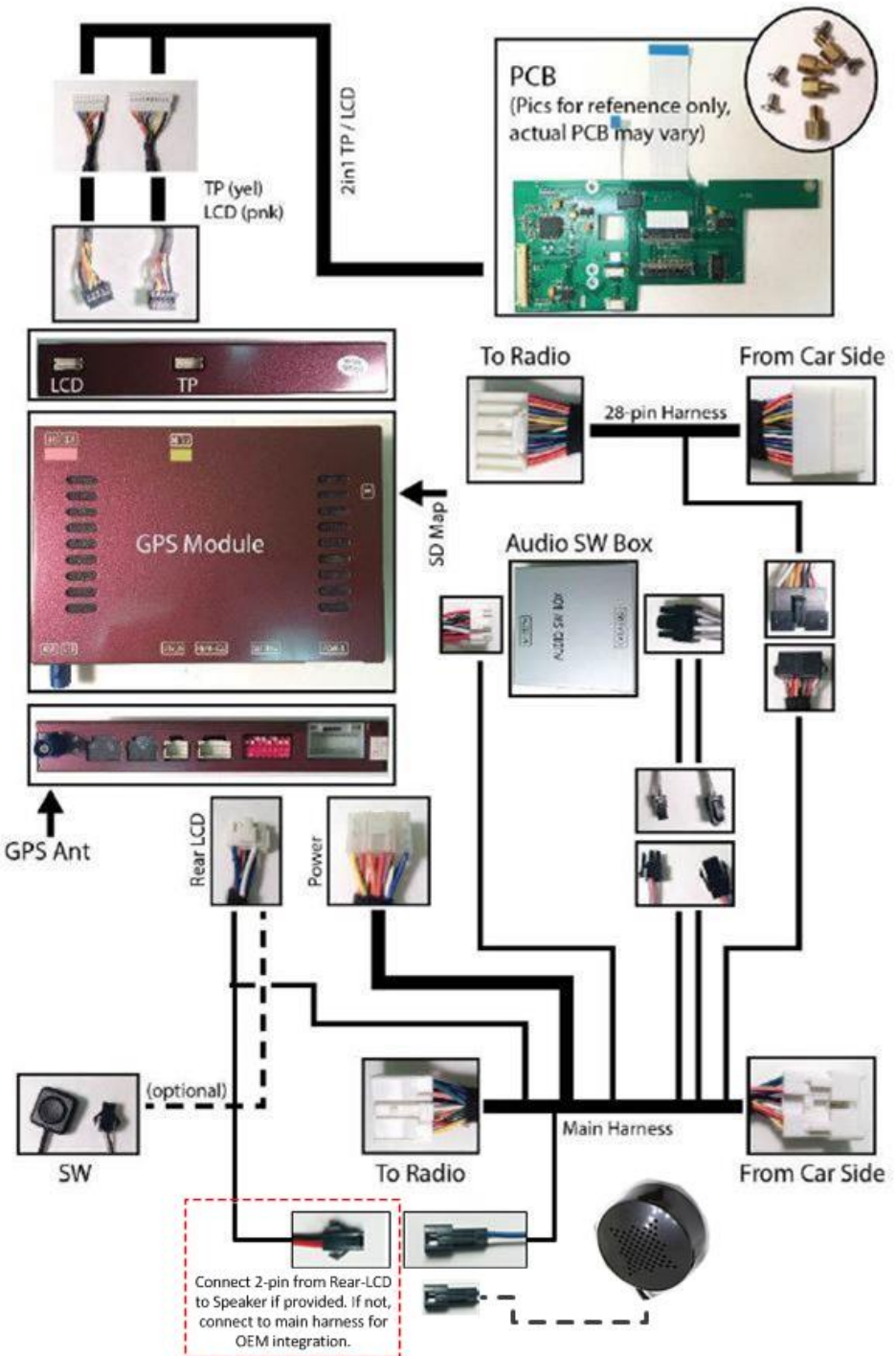


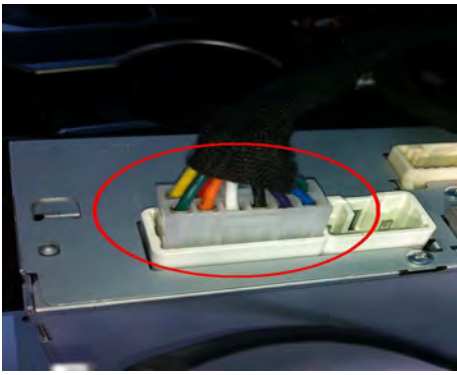
Place Radio ribbon from Radio side to video board socket



Run the Video Cable from inside video board to outside the radio

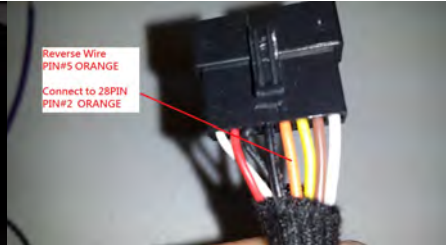
# Wiring Diagram





1. Place the 10PIN (NON-JBL ) or 20PIN ( JBL) Power Harness
2. Place the Module under the Radio

**Activate OEM Camera/ After Market Camera**  
IF 28PIN T-Harness IS NOT included in the package  
Please connect reverse wire manually



Manually Connect 28 PIN Connector PIN#2 ((Orange Wire)  
From the Radio to Black 8 Pin Connector PIN#5 (Orange Wire)

Reverse Signal is on 28PIN #2 (Orange Wire)



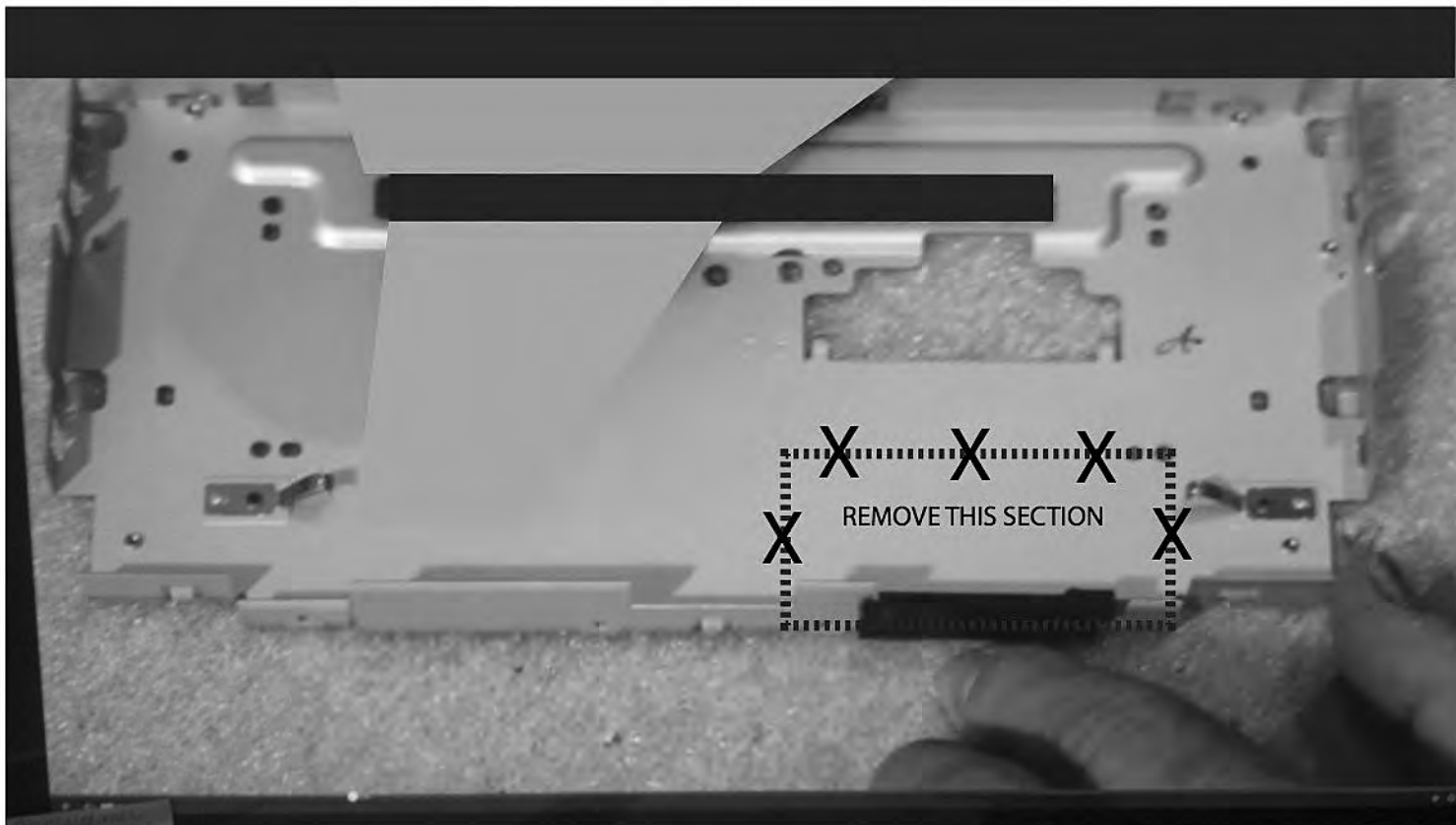
### DIP SW Setting

- 1 ON OEM Camera / NO camera
- 1 OFF Aftermarket Camera
- 2-8 OFF

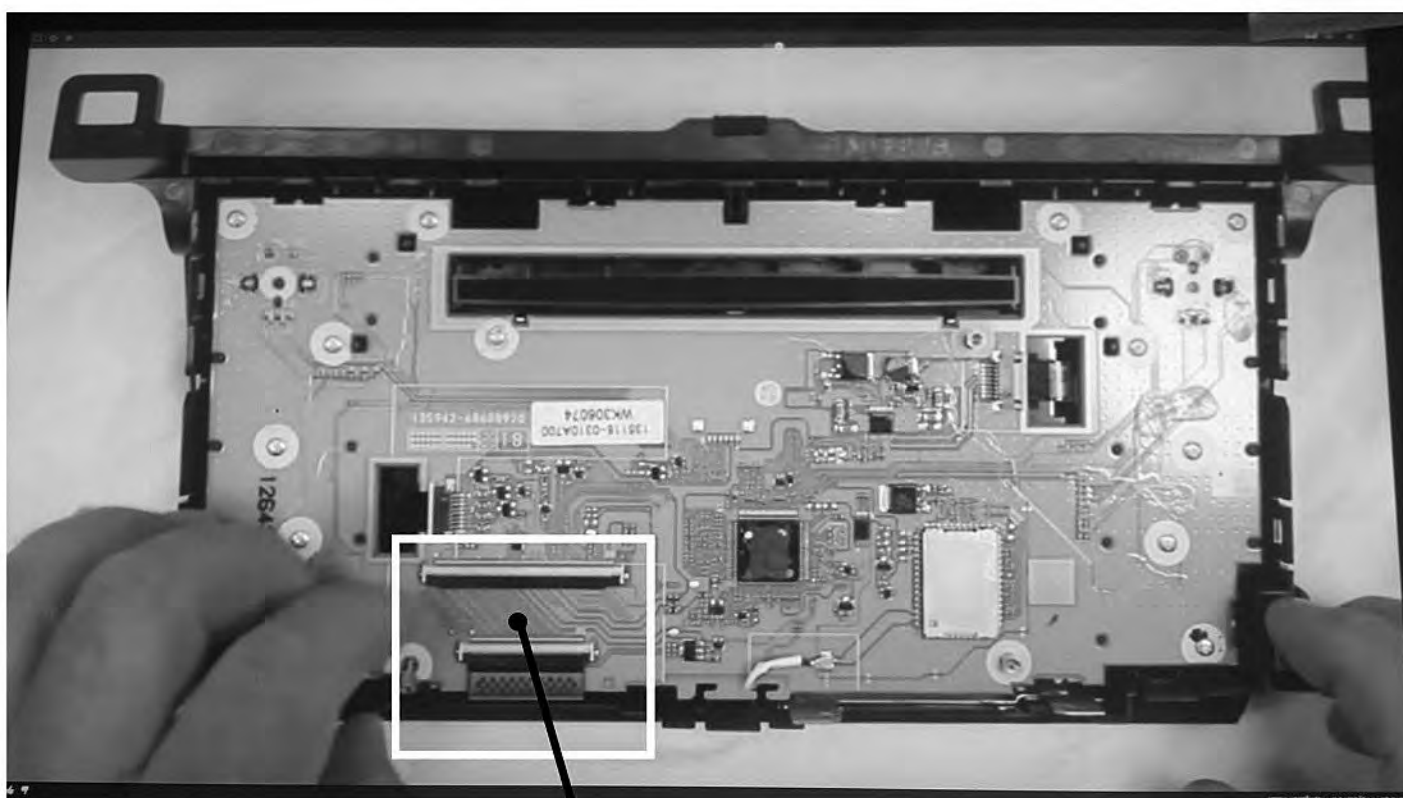
## REMINDER!!

**Don't Forget to Connect REVERSE WIRE to activate OEM Camera**

**Press and Hold Factory Screen 3 Seconds to Activate Radio/GPS Mode**



REMOVE THE SECTION SHOWN ABOVE MAKING SURE AREA REMOVED IS WIDE ENOUGH AND HIGH ENOUGH TO FULLY EXPOSE VIDEO RIBBON CABLE SHOWN IN FIG 2



THIS AREA SHOULD NOW BE EXPOSED



# WEAK /NO GPS SIGNAL?

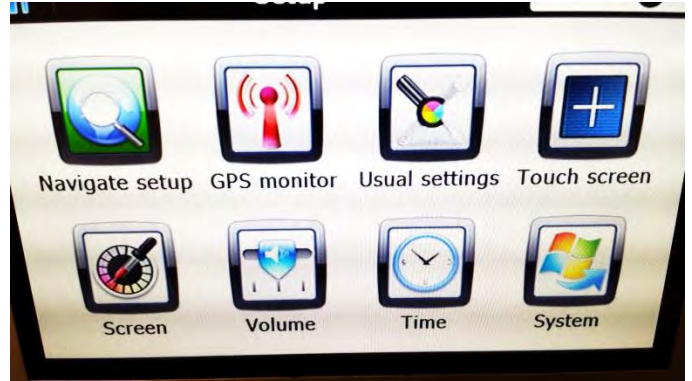
Tips to Improve GPS Antenna Signal if vehicle equipped Metallized Windshield\*

## “GPS MONITOR Tools”

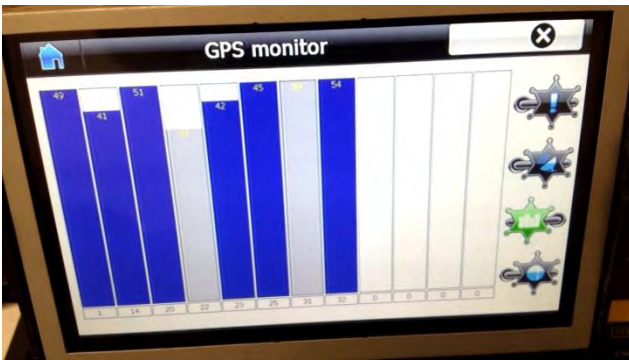
Exit IGO MAP by press SHUT DOWN BUTTON



Console> SETUP

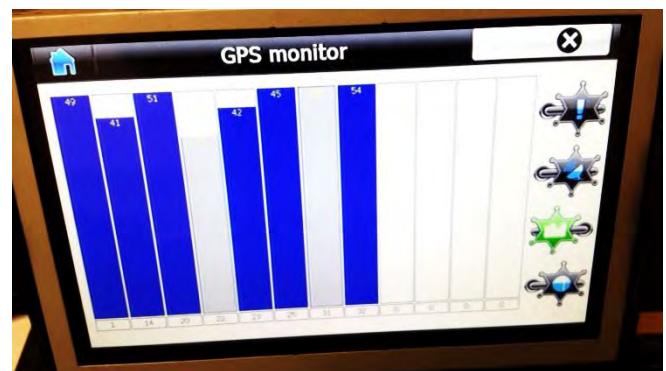
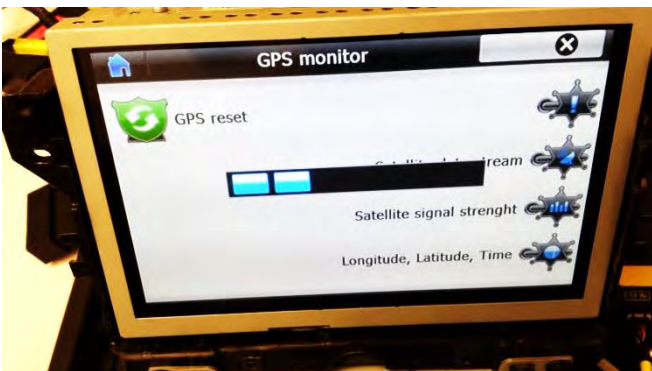


GPS MONITOR



Locate the Antenna with minimum 5 bars in dark blue or Gray bar

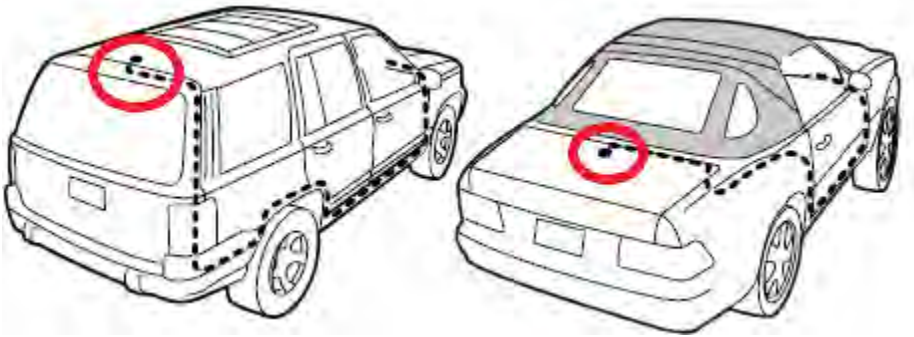
(Always suggest mounting the GPS antenna on the roof)



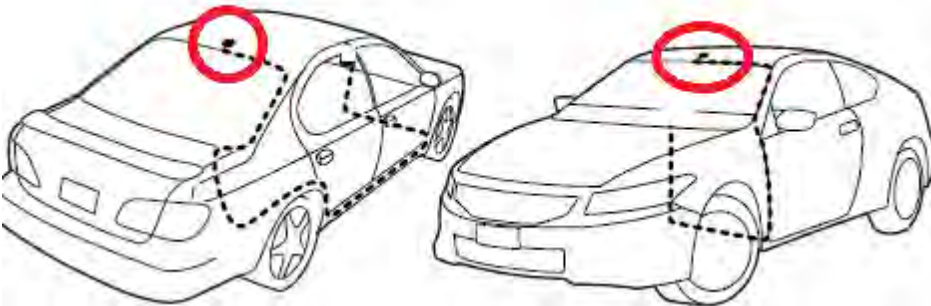
Press “!” icon to reset GPS signal and change the Antenna position

# PROPER GPS ANTENNA POSITION

if vehicle equipped \*Metallized Windshield



**SUV/Coupe**



**Sedan**



**TRUCK (Shown as Tundra)**

Alternatively, installer might choose to mount Antenna inside the headliner or inside vehicle using GPS monitor tools (see instruction). However, stay away from the windshield.

\* Windshields with metal particles can interfere with radio waves, dash-mount satellite radio receivers, and GPS receivers may be affected external transmitters and receivers may be required.



## **IGO PRIMO MAP PATH SETTING**

1. Press Setup -> Navigate Setup
2. Press on the Folder Icon
3. Select the following path in Storage Card -> cyb\_navi.exe
4. Press HOME button on the top left corner and press  
NAVIGATION
5. System should be able to run into "IGO PRIMO"