

NAV-TV

INTERFACING THE FUTURE

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NNG-Toyota 6 (v2)

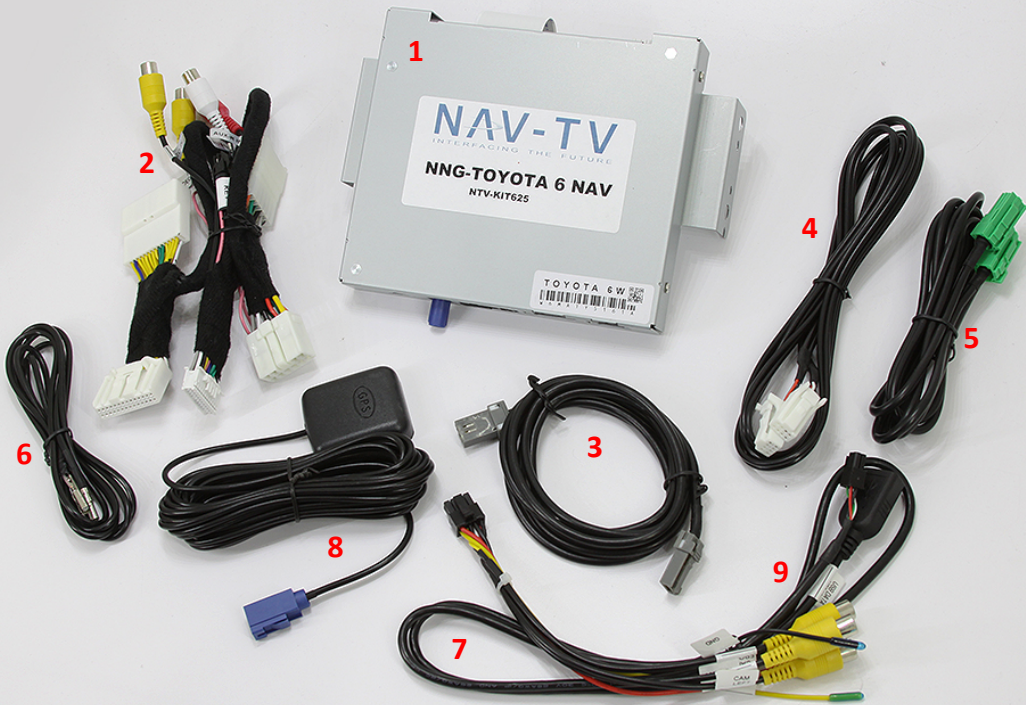
Navigation interface for '15-'16 Toyota Sienna

NTV-KIT823



BHM
04/12/17
NTV-DOC237

NNG-Toyota 6 (v2) Kit Content



1. Navigation & Video Interface
2. Plug & Play T-Harnesses
3. XM Module extension cable (1)
4. XM Module extension cable (2)
5. XM Module extension cable (3)
6. XM Module antenna extension
7. Optional Video input cable
8. GPS Antenna
9. USB Input (updates only)

NNG-Toyota 6 Navigation System Installation

NNG-Toyota 6 navigation system application guide

2015 – 2017 Sienna (Pioneer Radio)

6.1" Non-APPS Radio DIP SW 1 ON/ 7" APPS Radio DIP SW 1-4 OFF

** Toyota 6 navigation system only compatible to vehicles listed above. Only compatible radio is Pioneer radio with 6.1" or 7". Please verify the radio has "P" number on front plate for this system to install and work properly.

This system only applicable to Pioneer radio. If your radio is NOT Pioneer radio (usually be identified with "P" number 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.

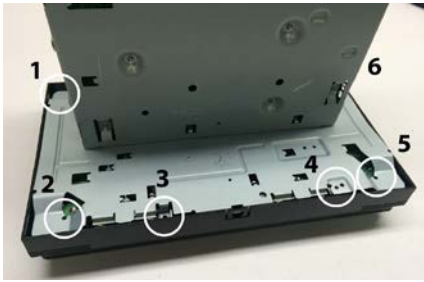
Before beginning your installation, familiarize yourself with the installation instructions and the Navigation system components.

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.

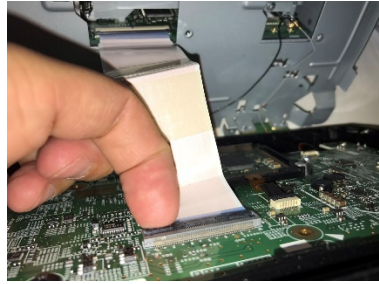
This is a general installation guide for navigation system only. There will not be any instruction on dash / radio removal. Please refer to Toyota service manual for removing radio from dash.

NNG-Toyota 6 Navigation System Installation

The original “piggy bag” location will be utilizing for Toyota 6 navigation. The XM radio module will be extended the relocation behind the passenger compartment box.



Remove (6) small screws as indicated



Remove factory ribbon cable from socket



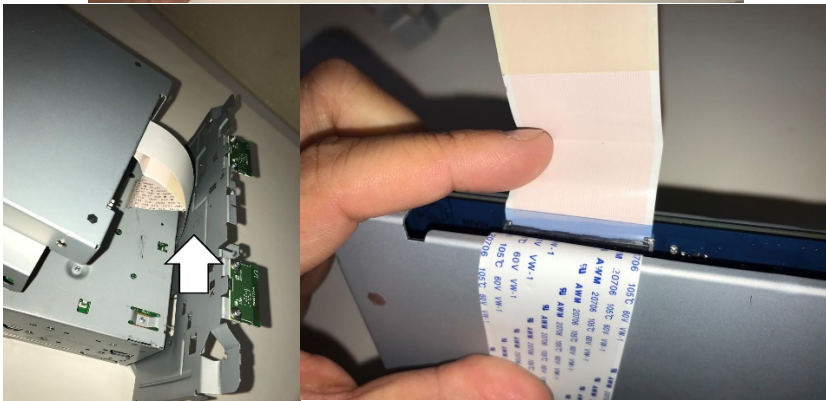
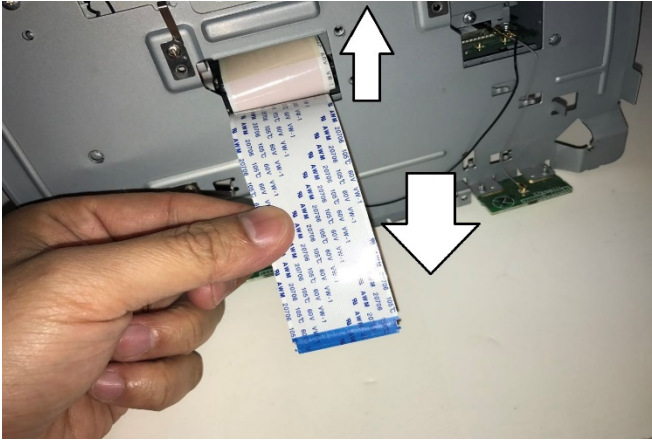
Carefully remove ribbon cable from socket on the chassis side

Identify the ribbon direction the factory ribbon cable before removal



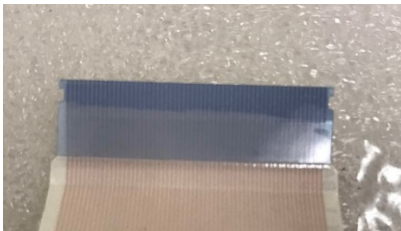
Loosen these screws to make room to pass thru the factory ribbon cable

NNG-Toyota 6 Navigation System Installation



Flip the factory cable to the back and bottom side of radio , the original screen side ribbon insert into navi box and chassis side OEM ribbon insert into chassis socket.

Make the provide TY6W ribbon pass through the chassis and insert to LCD panel socket



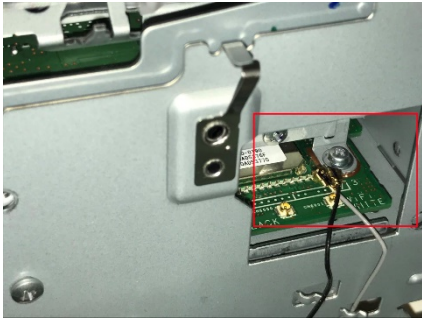
(OEM Chassis Side)



(OEM Screen Side) and insert into TY6W

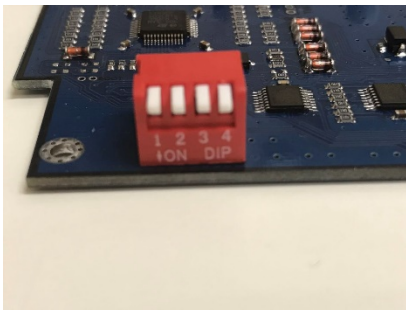
Identify Chassis side ribbon and Screen Side ribbon cable

Toyota 6W Navigation System Installation



Make sure these connector are secured connected all the time

(FAILURE TO DO THIS MIGHT AFFECT FACTORY FEATURES)



Setup DIP SW

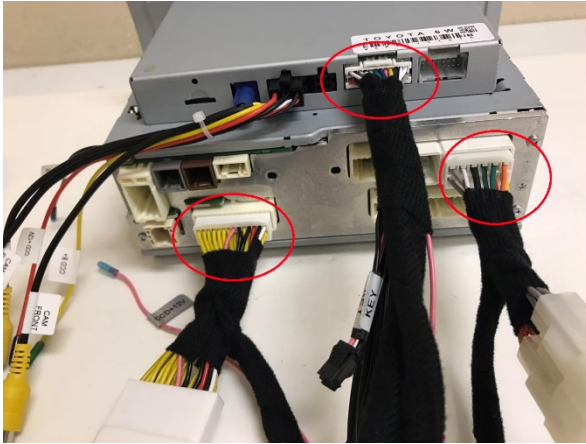
For 7" APPS Radio 1-4 ALL OFF For 6.1" Non-APPS Radio 1 ON 2-4 OFF



Secure all Ribbon cable into correct direction, make sure DIP SW Setting

Reinstall (6) small screws to the radio

NNG-Toyota 6 Navigation System Installation



Radio and Navigation connector

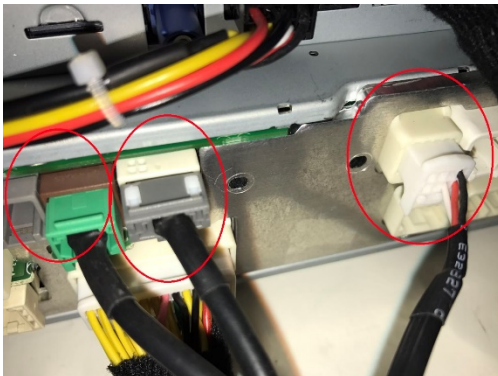
10P T-Harness main power sources

28P backup trigger and AUX audio

24P Main power to the navigation unit

Connect Blue connector to GPS Antenna

XM Connector (Detail see below)



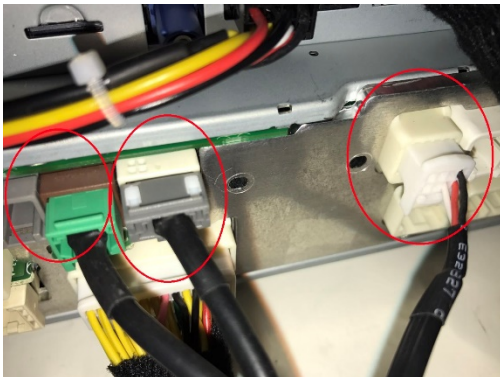
Insert SD MAP Card

NNG-Toyota 6 Navigation System Installation

Extend and Relocate the XM module

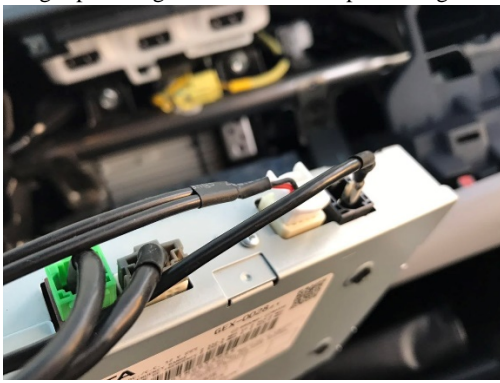
Unplug and remove the factory XM wire

Plug the provided extension wire to the radio and the XM Module



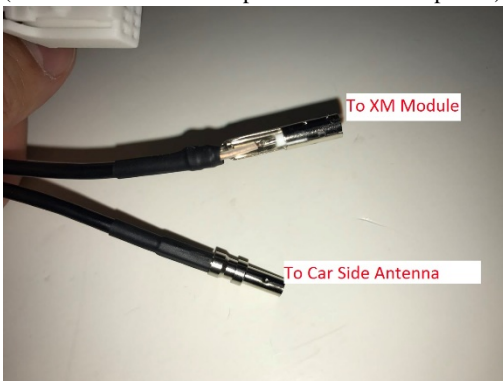
Green, Grey and 8P white connector

A light push might be needed to help inserting the Grey Connector



The Antenna will need to secure by tape

(OEM connector will be provided in next shipment)



NNG-Toyota 6 Navigation System Installation



Insert the car side antenna and secure connection with tape
(OEM connector will be provided in next shipment)

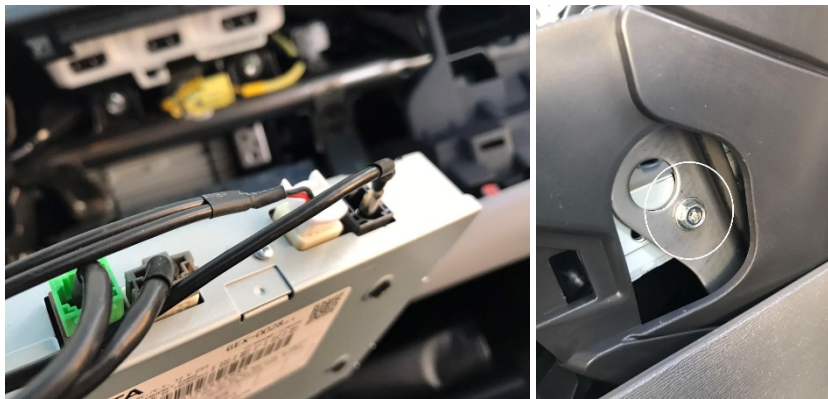


Remove passenger side compartment box



Place the XM box the right hand side corner

NNG-Toyota 6 Navigation System Installation



Secure the XM box by one of the radio mounting screw at the side panel

Overall

NNG-Toyota 6 Navigation System Installation

System Check up

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-assemble of the radio and dash

Test reverse camera function

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

Vehicle Setting



Default Camera Setting as OEM

Trigger: 12V (as always)

Rear Camera: OEM / Add-on camera

*If connect with external 4-way switcher, this option must turn on)

Park Guidance: OFF / ON (If add-on camera need parking line)

Back-up Sensor: OFF / ON (If purchase with back-up sensor)

NNG-Toyota 6 Navigation System Installation

Switch to Navigation

Press and Hold “AUDIO” Button for 3 Seconds (refer to Quick Start Guide)

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

Map Initialization

STOP BEFORE TESTING THE NAVIGATION SYSTEM WITH SD CARD,

PLEASE READ THE FOLLOWING INSTRUCTIONS

Test system without map SD card

1. Power ON the system and switch to NAV mode
2. Wait for the Main Console to load
3. Touch Calibration Screen will automatically load
4. Hit the marks on screen and OK to finish calibration
5. Insert SD Map Card
6. Follow MAP SOFTWARE INITIATION PROCEDURE

Map software initiation procedure

1. Insert SD Map Card
2. Ensure correct orientation and secure in the slot
3. Power ON the system and switch to NAV mode
4. DO NOT TURN OFF SYSTEM
5. Finish the initial program settings on the screen
6. Allow the map software continue to run for 10 mins
7. Test GPS reception
8. Use the supplied label to secure the SD Map Card

Final Notes

Refer to previous pages for system wiring connections

Connect GPS Antenna to GPS Module (best GPS Antenna location is under passenger side Apillar

cover, on top of dash) and check secured connections

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

Test reverse camera function and BSM cameras if equipped

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

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

Power

GPS Module has (2) led lights as indicators when system is power on. Both led lights should lit with good power. If any of the light is dimmed, you should check for B+ and ACC power sources.

Toyota 6W Navigation System Installation

Display

No Display

1. Check Radio power and associated fuses
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

No Touch Response

1. Check both Radio mode and NAV mode for touch responses
2. Check all (4) ribbon cables connections

No GPS software loaded, touch screen alignment screen occurred

1. Check the farka antenna cable connection at the Nav module. Ensure they are “click” in place.
2. Check map SD card at Nav Module, see any sign of missing, loose, pop-out, misalignment, or damage

Sound

1. Check all cable for connections to Audio Box (if any) for loose, or damage
2. Check software volume settings, ensure volume is not muted
3. Check connections at radio for loose, damaged wires
4. Navigation Audio only interrupts Driver Side Door Speaker

For all technical support, before you contact us, please make photos and/or videos documentation of the problem. This will ensure a fastest track of problem resolution.

Please check all cables, pins, connectors, clips and ribbon cables for loose, and damage when you encounter technical difficulties.

Whenever you installing electronic component to the vehicle, it is always recommended to disconnect the battery and air-bag module before any work. Please refer to the **WARNING DISCLAIMER** at the beginning of this installation before contacting us for any warranty claims.