

NAV-TV

INTERFACING THE FUTURE

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NNG-Ford V2

Navigation interface for FORD vehicles equipped with 8.4" MyTouch

NTV-KIT585



SoftTouch Navigation System

2011-2013 Ford Escape Installation Instructions

NTV-KIT558: FORD V1
NTV-KIT585: FORD V2

NTV-DOC223

Compatibility

Year	FORD V1 (KIT558)	FORD V2 (KIT585)
2011+	EDGE	
2012+	EXPLORER	
2013+	FLEX, F-SERIES (all), TAURUS	C-MAX, ESCAPE, FOCUS, FUSION
2015		FIESTA, MUSTANG

INSTALLATION PERFORMED ON ESCAPE FOR REFERENCE ONLY.

Parts Identification	Page 1
Vehicle Preparation	Page 2
Programming Switch Settings	Page 2
Installation	Page 3

1. NNG-FORD V2 GPS/Interface
2. NNG-FORD V2 Internal Modification PCB
3. NNG-FORD V2 Plug & Play T-Harness
4. LCD/TP Cables
5. Audio Switch Module
6. Audio I/O Y-Cable
7. Rear-LCD Cable
8. GPS Antenna
9. OEM/NAV Toggle Switch



STOP – Install At Your Own Risk

YOU MUST READ THESE WARNINGS AND NOTICE BEFORE PRODUCT HANDLING AND INSTALLATION!

PRODUCT AND VEHICLE APPLICATION WARRANTY DISCLAIMER

WARNING ! The Navigation Electronic Components are sensitive to Electro-Static Discharge (ESD). **DO NOT HANDLE THE NAVIGATION ELECTRONIC COMPONENTS WITHOUT PROPER ESD GROUNDING DURING INSTALLATION. FAILURE TO USE PROPER ESD PROTECTION WHEN HANDLING THE NAVIGATION COMPONENTS WILL VOID THE PRODUCT WARRANTY.**

WARNING! Installation of this Navigation Electronics product in the vehicle radio head unit must be performed by a professional technician that is experienced with proper work methods, ESD handling requirements, and knowledgeable of specific procedures for radio disassembly, Navigation Electronics installation, and re-assembly of the vehicle Radio Head Unit as well as proper handling requirements of all components involved. **FAILURE TO FOLLOW PROPER DISASSEMBLY, INSTALLATION, AND REASSEMBLY PROCEDURES AND PROPER COMPONENT HANDLING REQUIREMENTS MAY RESULT IN IRREVERSIBLE DAMAGE TO THE VEHICLE RADIO HEAD UNIT AND/OR THE NAVIGATION ELECTRONICS AND WILL VOID THE PRODUCT WARRANTY!**

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 contract 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.

WARNING

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 this product, the seller should inform the end-user of proper use and compliance with the proper instructions and all state and federal laws.

Vehicle Preparation

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

To ensure your safety, **(A)** apply the emergency brake and **(B)** read this entire manual before beginning.



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.

Default Programming Switch (Dip Switch) Settings



Default Programming Switch Settings

1 – Off 2 – Off 3 – On 4 – Off 5 – On 6 – On 7 – Off 8 – On

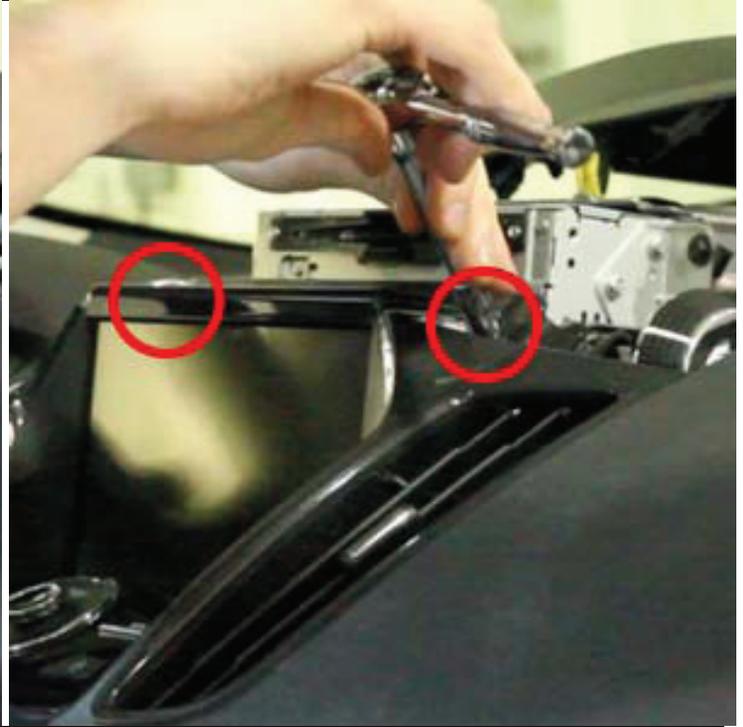
Factory or Aftermarket Camera Settings

To use an aftermarket camera – Place switch #1 in **OFF** position.

To use the vehicle’s factory camera – Place switch #1 in **ON** position.



Installation



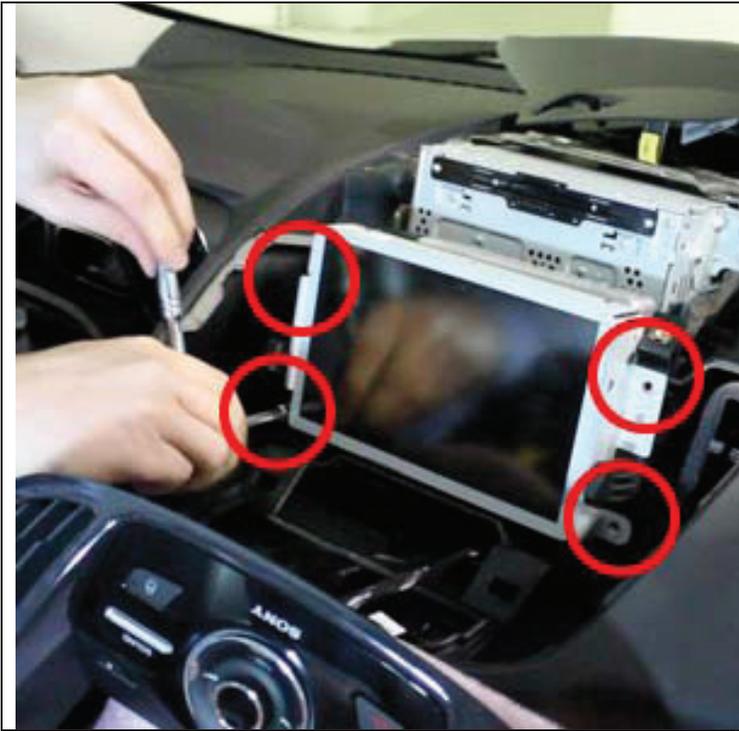
Using even pressure, gently remove the upper dashboard trim sliding it out of the way just enough to access the upper radio mounting screws.

Remove the two screws from the upper radio mounts.



Remove the dashboard trim surrounding the touch screen unit using an automotive trim tool.

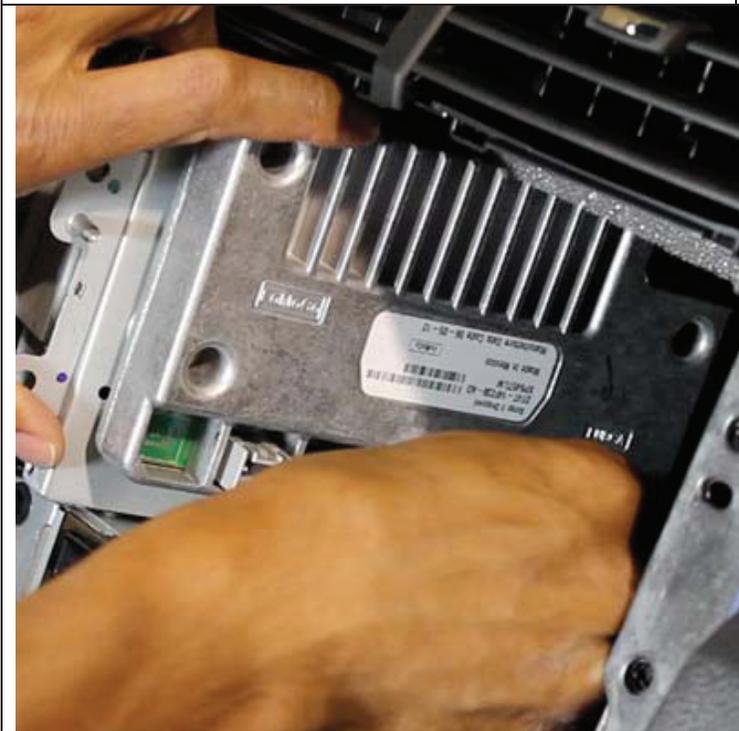
Tilt the dashboard trim forward and detach the air conditioning control harnesses.



Remove the four screws securing the touch screen unit to the dashboard.



Gently turn the touch screen unit towards the driver's side of the vehicle to easily access the factory wiring harnesses.

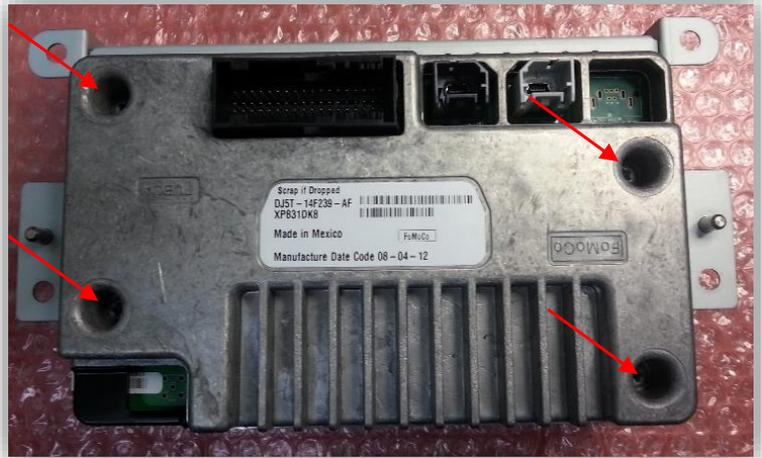


Gently remove these harnesses (**Note:** the large factory harness includes a locking retainer clip.)



Gently lift the touch screen unit from the vehicle's dashboard.

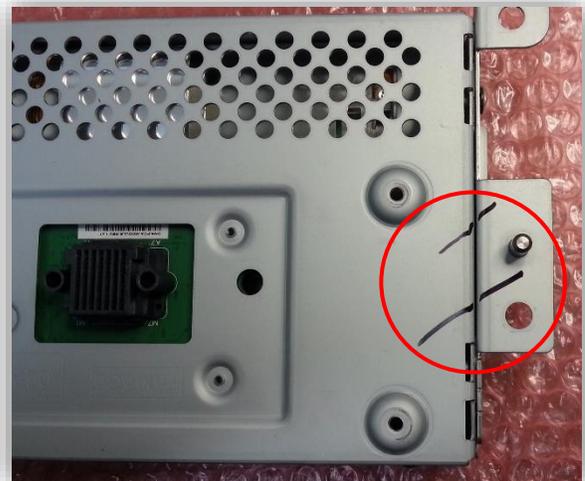
1. To begin, place the LCD assembly face down on a soft surface (ESD mat would be best) so as not to scratch the screen. Remove (4x) Phillips head screws:



2. Separate the two halves of the assembly by pulling straight up after the screws have been removed. Set the back half of this LCD assembly aside. *Note that the center connector is keyed and the halves can only be replaced in one direction:*



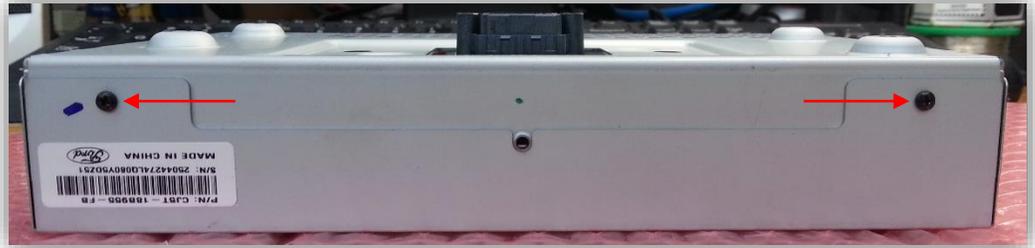
3. On the LCD panel housing, mark across the brackets and the housing to make replacing later a breeze:



4. On each side (left and right) of the LCD housing, remove (2x) Torx T8 screws, and (2x) Phillips head screws:



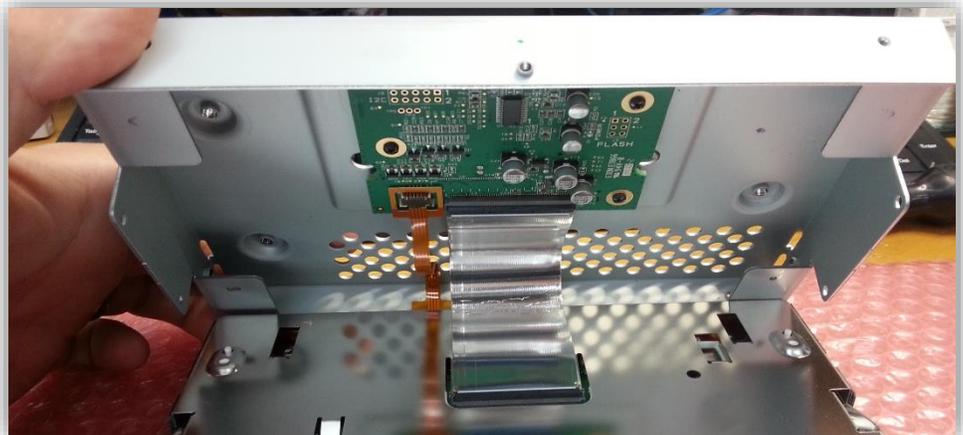
5. Next, remove (2x) Phillips head screws on the top and bottom of the LCD housing:



6. Carefully separate the metal bracket from the LCD housing, this will expose the touch panel ribbon cable and allow the LCD screen to be separated from the back half of the housing:



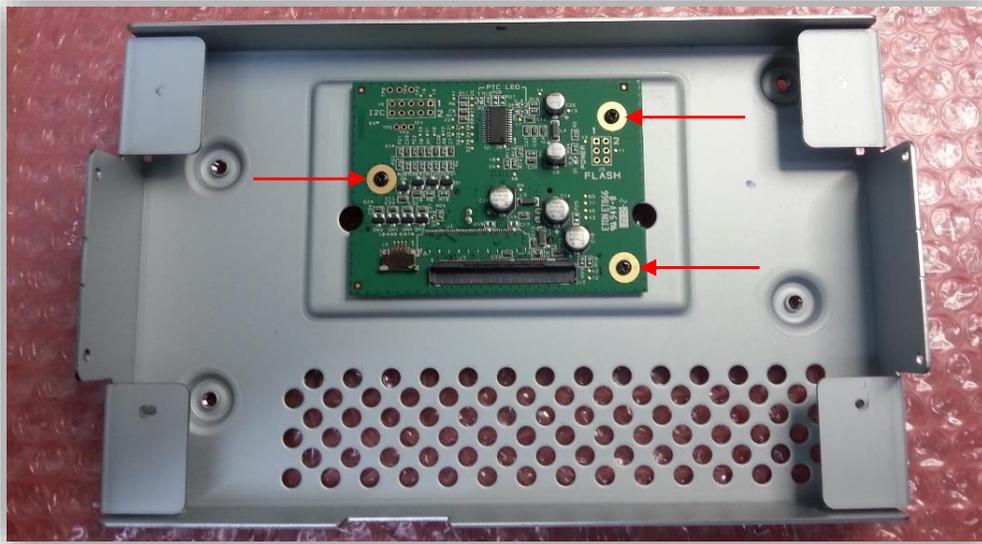
7. Now separate the metal housing from the LCD panel. Lifting the opposite side of the touch panel ribbon will give you easy access to remove the ribbon connectors:



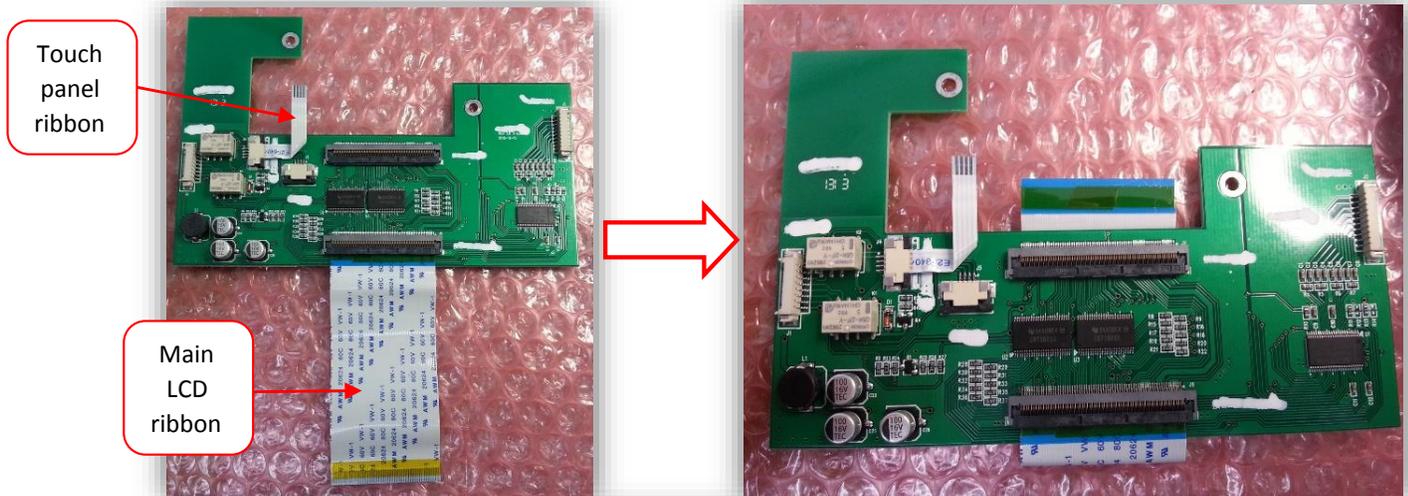
8. Disconnect the ribbons carefully with a small flat head screwdriver **from the circuit board side**. Set the LCD panel aside for now, it is not needed for this modification:



9. Lay the back metal housing down with the circuit board facing up in the orientation shown, and remove (3x) Phillips head screws:



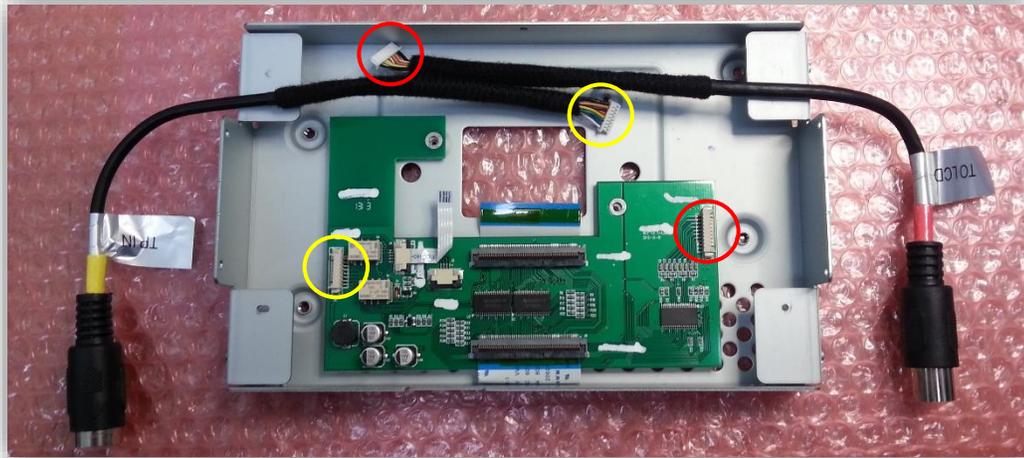
10. From the NNG-Ford kit, gather the sub-board with ribbons attached. Fold the main, bigger ribbon underneath the board like shown below. You should see blue on both ends of this ribbon with this orientation.



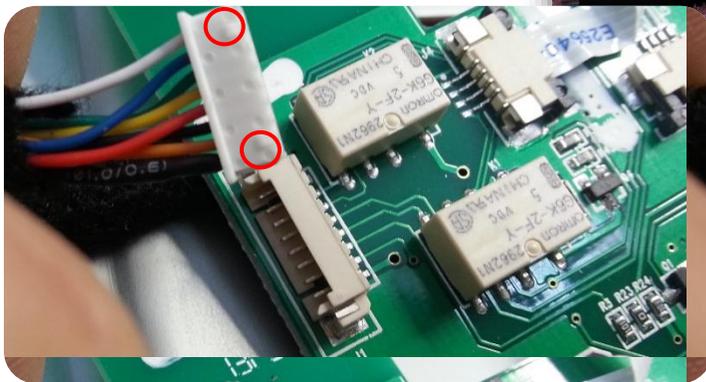
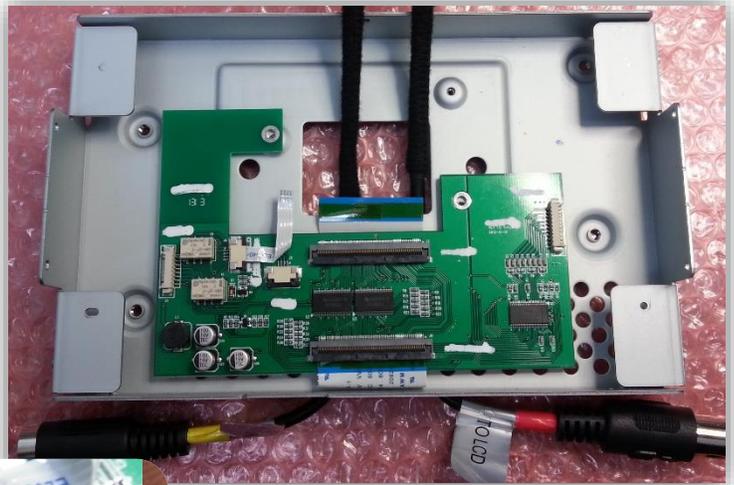
11. Gather the two, short harnesses labeled 'TP-IN' and 'LCD-OUT' from the NTX-54 Ford kit. Take note that the white connectors on one end of each of these are different sizes.



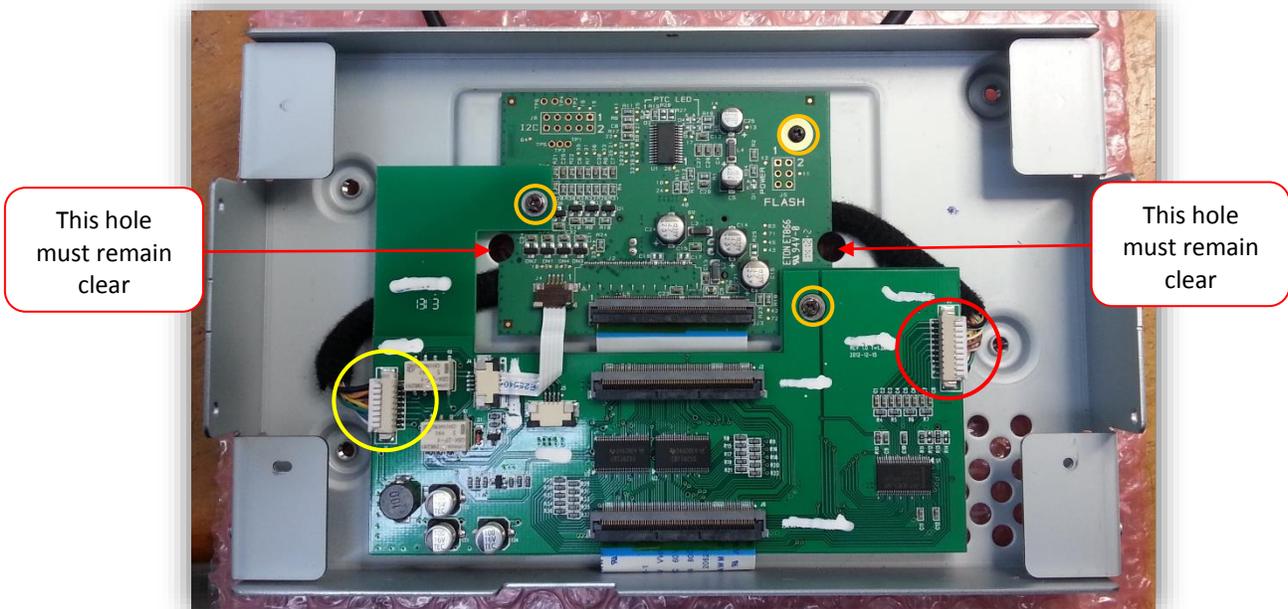
12. Place the sub-board in the rear LCD housing like shown. This is how the sub-board will be installed into the LCD housing, with the OEM Ford circuit board **beneath** the NTX54-Ford circuit board. The harnesses from step 11 will be ran through the center square and connected to their prospective connectors:



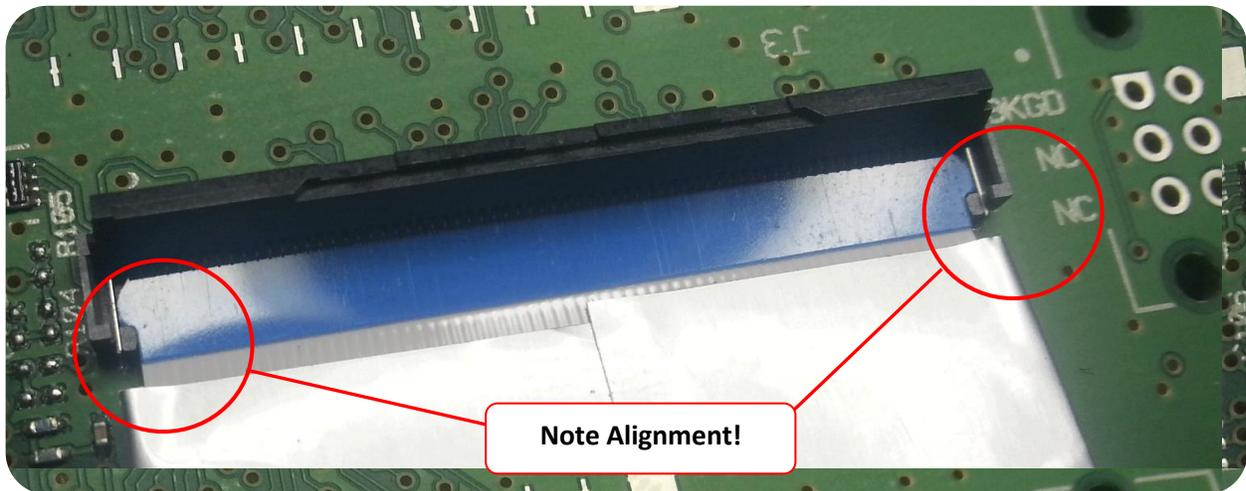
13. Run the harnesses from step 11 through the center square hole like shown. When connecting the white plugs to the circuit board, they can only be inserted one way for proper operation. Note the blocks on only one side of each connector – this side faces **down**.



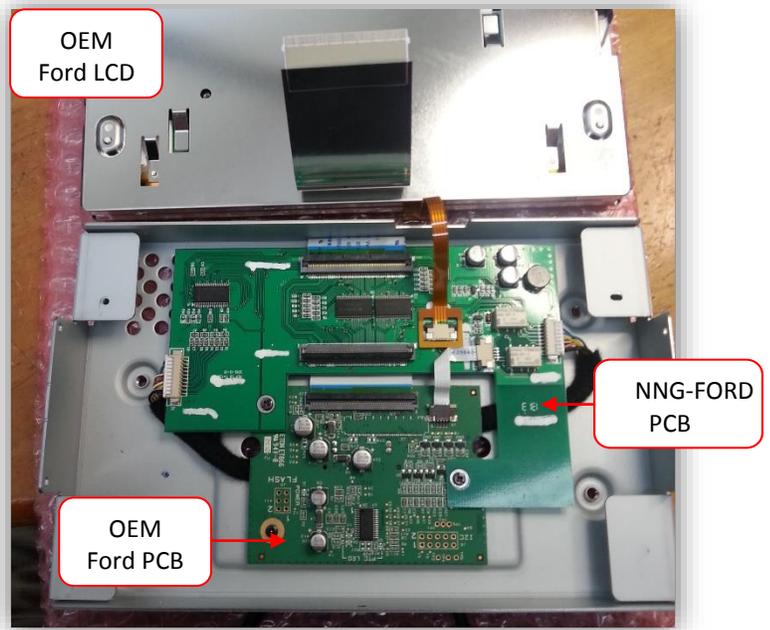
14. Replace the factory Ford circuit board. The NTX54-Ford circuit board needs to be palced on top. Connect the wider ribbon that was tucked underneath the board from step 10 and the touch panel ribbon to the factory Ford circuit board like shown below. **Use the extended screws provided with the V2 NTX54-Ford kit to secure both PCB's down to the metal chassis.**

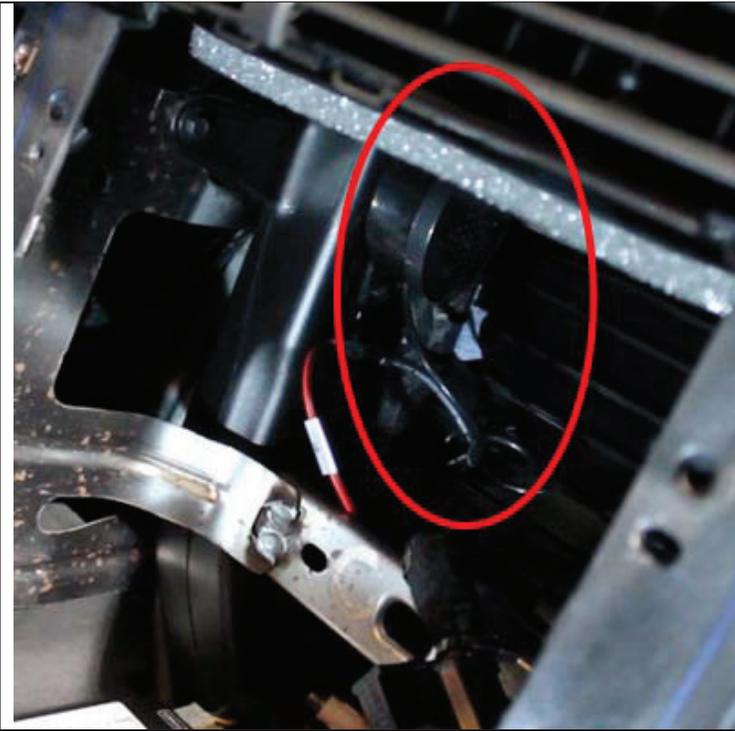


Be certain that the ribbons are seated fully and squarely. Failure to do so may result in hardware damage. ☹



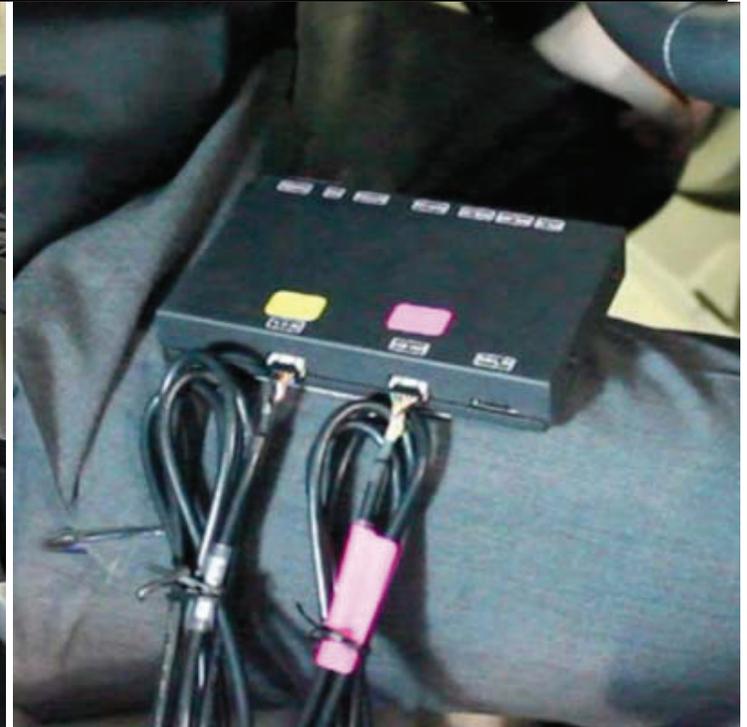
15. Flip the modified LCD housing upside down, and place the LCD panel just above the housing. This will make reconnecting the factory ribbons to the new NTX54-Ford PCB easier:





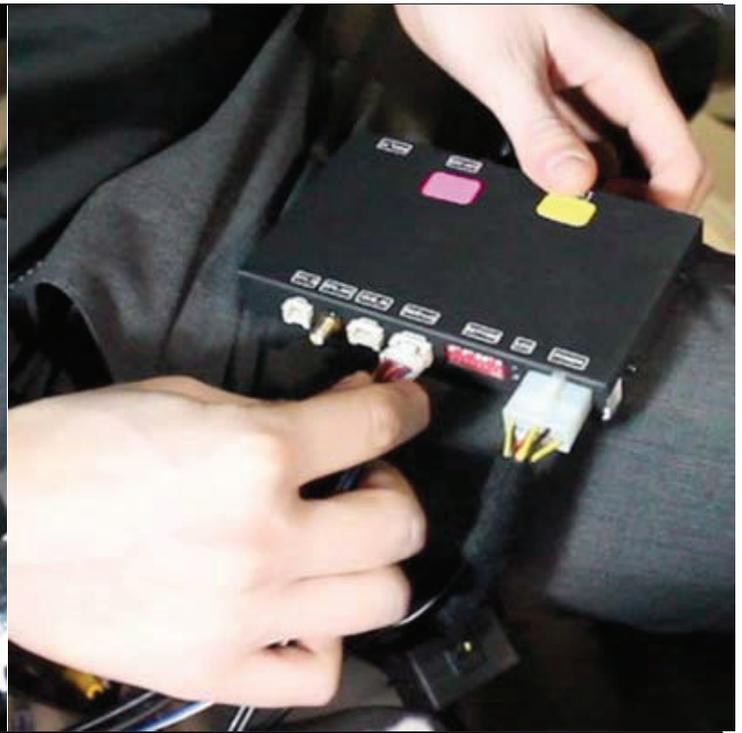
Remove the protective layer from the adhesive backing on the GPS speaker and attach it to the interior dashboard frame behind the touch screen.

Mount the GPS antenna to the top-rear of the vehicle allowing it to attach using its magnetic base.



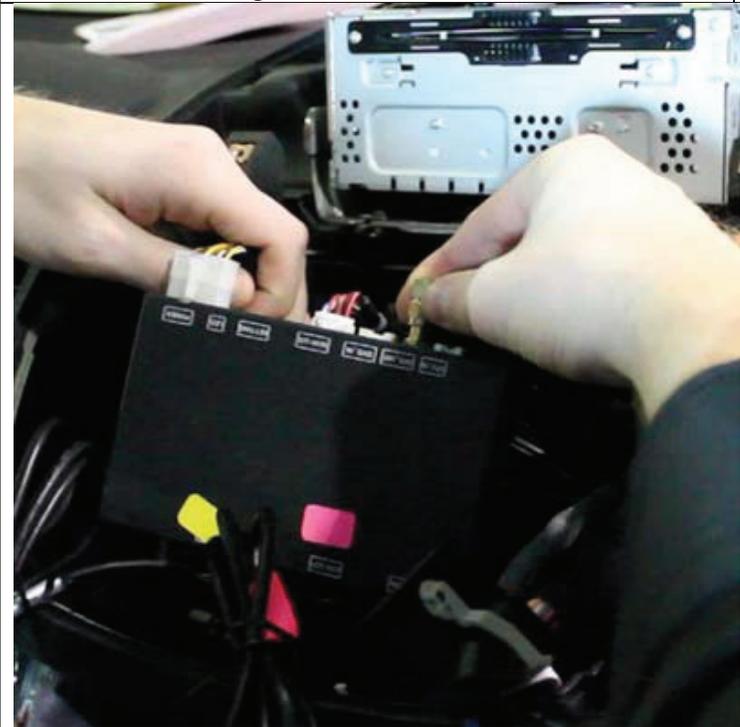
Route the GPS antenna extensions harness to the front of the vehicle above the headliner, down the passenger-side A-pillar, and behind the glovebox.

Connect the TP-IN and LCD-IN harness to the PINK and YELLOW ports on the navigation control module.



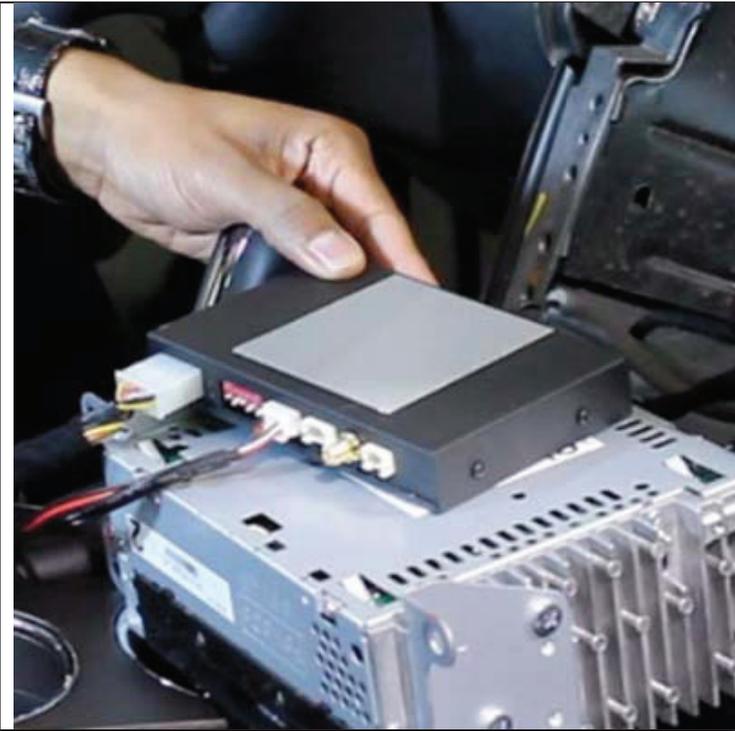
Connect the power harness from the vehicle interface harness to the navigation control module.

Connect the speaker interface harness to the navigation control module.



Find the threaded end of the GPS antenna and connect it to the navigation control module.

Connect the vehicle interface harness to the factory wiring harness on the car. (**Note:** the large factory harness includes a locking retainer clip.)



Apply the included VHB tape to the bottom side of the navigation control module.

Attach the navigation control module to the dashboard in the open cavity below the touch screen unit.



Attach the vehicle interface harness to the backside of the touch screen unit.

Connect the TP-IN and LCD-IN harnesses previously routed through the backside of the touch screen unit's casing to the TP-IN and LCD-IN harnesses from the navigation interface module.



Replace the touch screen unit. Make sure no wires are pinched in the process.

Mount the supplied membrane switch to the radio control panel.



Replace the dashboard trim pieces.

If indoors, start the vehicle and move it outside so that the GPS antenna has a clear view of the sky. Press the recently installed membrane switch to change from the factory interface to the iGo Navigation interface.

Reassembly

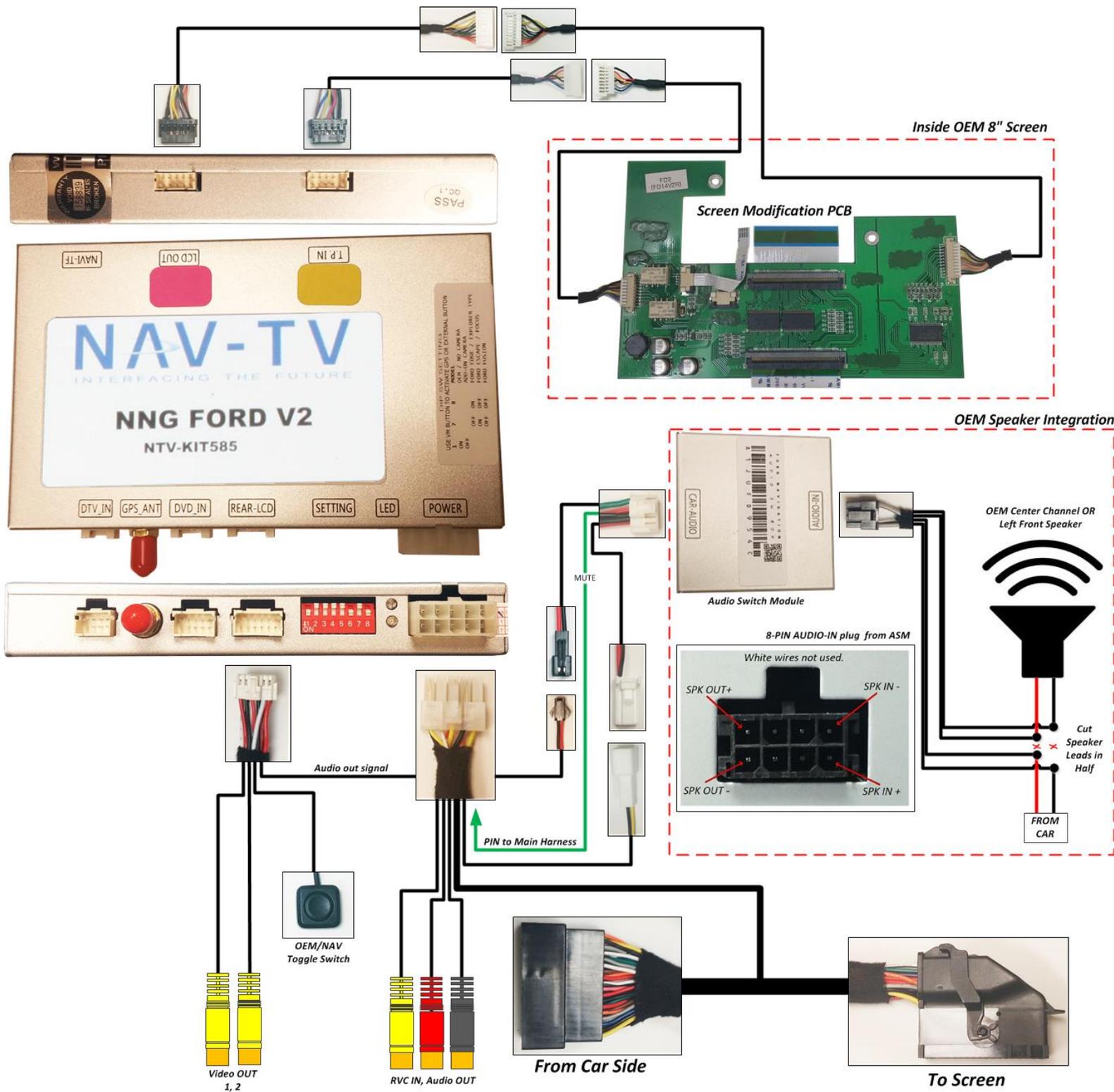
1. Reinstall all trim pieces taking special care to ensure harnesses and wiring connections are properly secured.
2. Make sure no harnesses are bent or pinched by trim pieces.
3. Reconnect all disconnected bulbs and check for function.

Installation Tips

- Confirm proper cable extension connector orientation and always verify proper ends are routed in correct direction.
- It is a good idea to dry-fit all pieces in this kit before permanently attaching them to ensure proper orientation and operation before beginning installation for familiarization with components.
- Always treat any metal exposed during installation with a rust preventative compound to prevent system failure due to rust and/or corrosion.
- Always seal any holes drilled with the provided sealing putty to prevent water infiltration through unprotected areas.
- Confirm integrity of mechanical and electrical connections before moving to next installation sequence.

Installation Notes

NNG-FORD V2 wiring diagram



Ford Audio Integration

Components for audio integration:

1. GPS Audio Box
2. Wiring (FD-AUDSPK-02)
3. Wiring (AUD-6PIN-01)
4. Main Harness (same harness used in main install)
5. Rear-LCD (connected to GPS box from main install)

Steps:

1. Connect both FD-AUDSPK-02 and AUD-6PIN-01 to GPS Audio Box
2. Connect white power plug to Main Harness
3. Insert green wire with pin to Main Harness (See figure 1)

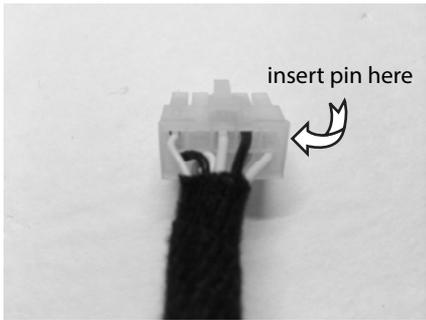


Figure 1

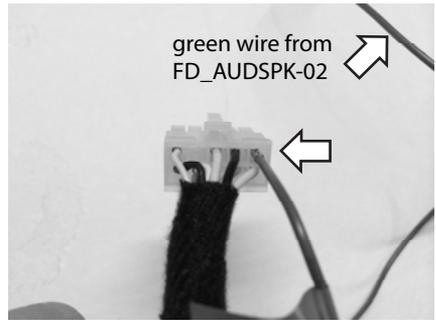
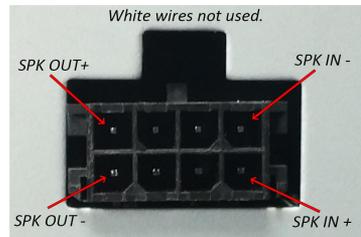


Figure 1a

4. Connect 2-pin speaker plug to Rear-LCD speaker plug
5. Locate the dash center speaker. *Note: If this car is not equipped with a center dash speaker, locate the Front-LEFT driver speaker leads, heading into driver's front door. Wire colors are typically White and White/Brown. Test wires before using!*
6. AUD-6PIN-01 has 6 wires, split to 2 black connectors. The WHITE wires are NOT used.
 - a. Cut the pair of signal leads from the OEM center channel speaker in HALF.
 - b. The FEMALE 4-PIN black plug is sound OUTPUT to Speaker (connect + and -). Gray/Black: - and Gray: +.
 - c. The MALE 4-PIN black plug is sound INPUT from Car (connect + and -). Gray/Black: - and Gray: +.

8-PIN black audio I/O pinout from Audio Box:



**** Normally, radio audio will by-pass audio box. When GPS talks, audio box will mute factory audio output and provide GPS audio to the dash speaker. ****



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"

WEAK /NO GPS SIGNAL?

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

“GPS MONITOR Tools”

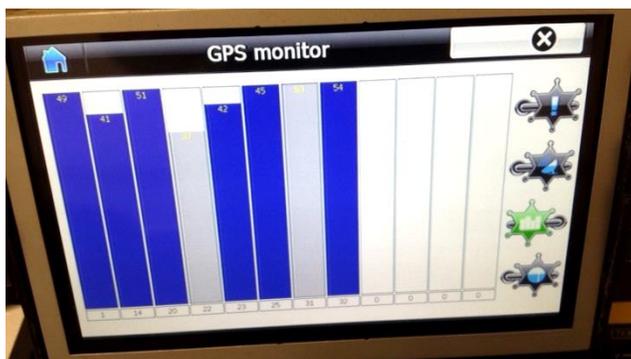
Exit IGO MAP by press SHUT DOWN BUTTON



Console> SETUP

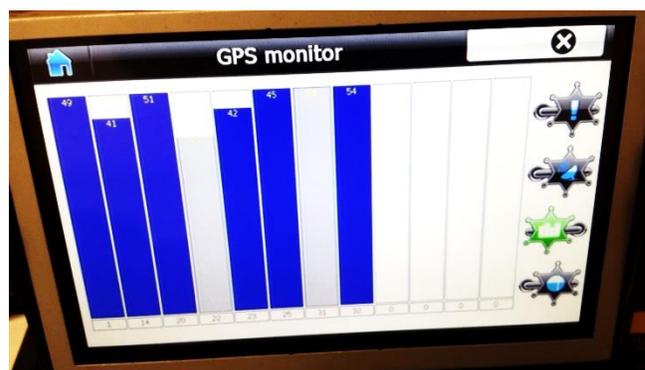


GPS MONITOR



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

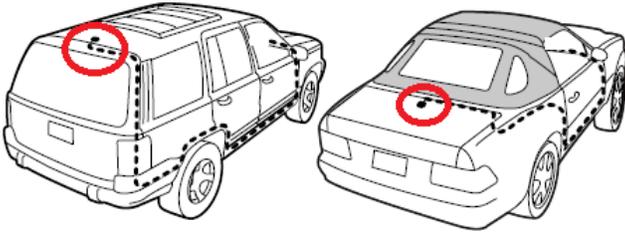
(Always suggest mounting the GPS antenna on the roof)



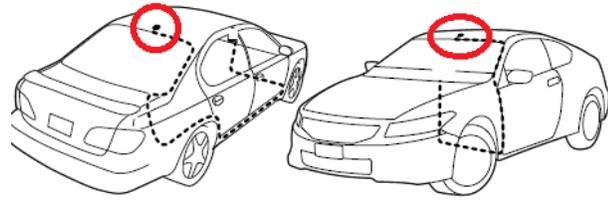
Press “!” icon to reset GPS signal and change the Antenna position

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.

If you see an error when switching to NAV mode that states:

'OUT OF MEMORY'

'REG 996886x0000' (or any other numbers)

Follow these steps to fix the issue:

1. Access the map micro SD (or standard size SD) card from the module and remove it
2. Use an SD card adapter for the PC to load the content
3. Access the map software from the PC from adapter
4. Look for the main folder "NAVI" from the SD card
5. Inside the "NAVI" folder, you should find a folder "SAVE"
6. **Delete the "SAVE" folder from the SD card**
7. Check to ensure the "SAVE" folder is successfully deleted
8. Insert the cleaned SD card back to the module
9. Turn on the system and check all functions. You should see it start with initial setup options and all should be well.