

NAV-TV

INTERFACING THE FUTURE

NNG-NAV KIT TECH NOTES

Typical NNG-NAV Kit issues and known fixes

Issue: KIT not switching into NAV mode. OEM screen operates normally.

Check: Are both LEDs on the interface lit up? Both LEDs MUST be lit in order for all proper operation.

- One LED represents constant 12v power, the other represents 12v ACC. BOTH must be present.
- If one LED is out, check power and ground at both sides of fuse block near main power connector at GPS interface.

- If constant is present at fuse block, then accessory 12v is likely missing. This is either over CAN data or comes down the LCD harness into the unit, I would have them check their modification. Get pictures, make sure they're aware how important it is for ribbons to be fully seated squarely and securely and facing the proper direction!

Check: The LCD/TP Y-cable that runs out from modification – if this is upside-down, you may still get normal OEM operation, just no NAV switching.

Issue: Error when switching to NAV mode that states: 'Registration is not up to date', and NAV will not let you go further.

Fix: (Seen on NNG-Honda C) the issue is that the interface's firmware is out of date. It must be updated with a **DIFFERENT SD CARD**. Do not use the provided SD MAP card, I would also suggest against trying to back-up the card and then re-use it later. If they must fix today, they'll need to find or purchase an SD (or micro-SD, whichever matches the interface MAP card size) and adapter. These are often sold together at Walmart or Walgreens, etc.

Steps to fix:

1. Click here (I would store this link locally on your PC somewhere):
https://www.dropbox.com/sh/741rnqmc9dhahmc/AAC7LCo7YsU-PF7Gs2v8_Qjja?dl=0
2. Top right, download ALL contents as .zip (*X-out of Dropbox asking to become a member*).
3. Unzip all contents onto an ALTERNATE, BLANK micro SD card.
4. Remove map SD card from interface
5. Pop in this SD we just created,
6. The interface will flash, let it do its thing. At the end, it MAY do a recalibration. if not no big deal, can do this later.
7. Pop the old MAP SD card in, and all should be working.

Issue: Error when switching to NAV mode that states: 'OUT OF MEMORY' 'REG 996886x0000' (or any other numbers)

Fix: (Seen in NNG-GM2) the micro SD cache fills up a folder and needs to be deleted.

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 working.

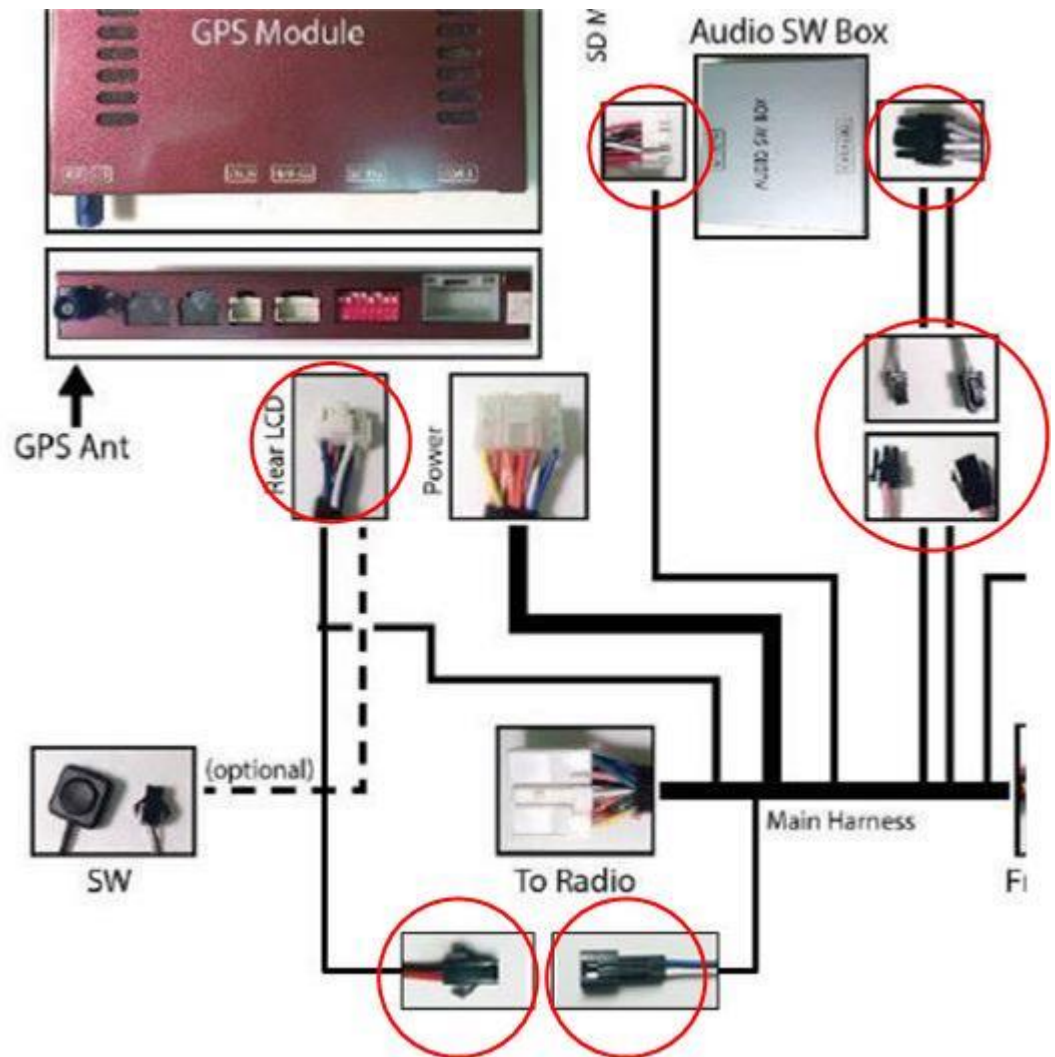
Issue: No sound from NAV unit at all. No touch tones or guidance voice.

Check: Seen usually in Toyota kits, when portions of the audio connections are not connected. With regard to the Audio Switching box, 7 connections need to be made (for Toyota) for sound to be heard. **This issue should not be related to an amplified system as the amplified JBL system will typically have Navigation already.** See pic and info below:

Make sure the 'REAR LCD' harness and Audio plug going into the 'CAR AUDIO' side of the Audio SW box are not swapped – they are the same connector.

People most often miss the bottom plugs, black and red wires to blue and white.

If this is all connected properly and you still have no audio, see if the shop has a speaker laying around and connect the leads straight to the red and black from the REAR LCD harness. If no sound, it's likely a bad GPS interface. IF you get sound, it's likely a bad AUDIO box, though it is very rare for the audio box to be bad (unless something was connected backwards).



Issue: No labels on IN vs OUT from Audio Switch Module, or NO center channel speaker exists.

Fix: Similar to our NTX-54 Nissan kit where you must cut open the signal leads to the center channel speaker (if equipped). Below is a pinout for the Audio Switching box. **IF NO CENTER CHANNEL**, installer must locate the front left speaker leads that head into the door. These wires are *typically White and White/Brown* for front left. The latest FORD manual outlines all of this and can be found on the google drive or the website.

From the black audio Y-Adapter that connects here, the **female** side is **out to speaker**, and the **male** side is **in from car**.



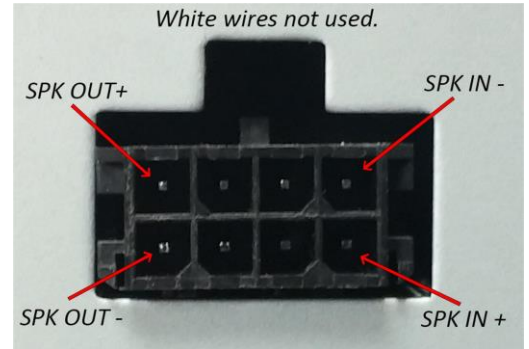
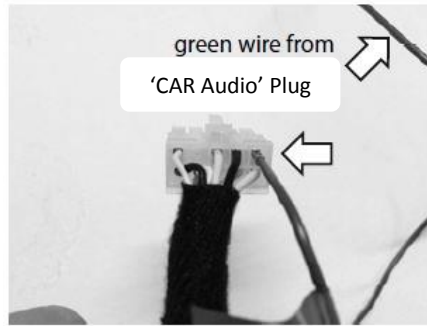
IN FROM CAR



OUT TO SPEAKER

Gray = (+)
Gray/Black = (-)

Note: The **GREEN 'MUTE'** wire MUST also be pinned into the MAIN power harness connector (top right) in order for muting and audio switching to work at all. Do not forget to connect the **Audio signal** from the REAR-LCD harness. See the diagram in the latest manual.



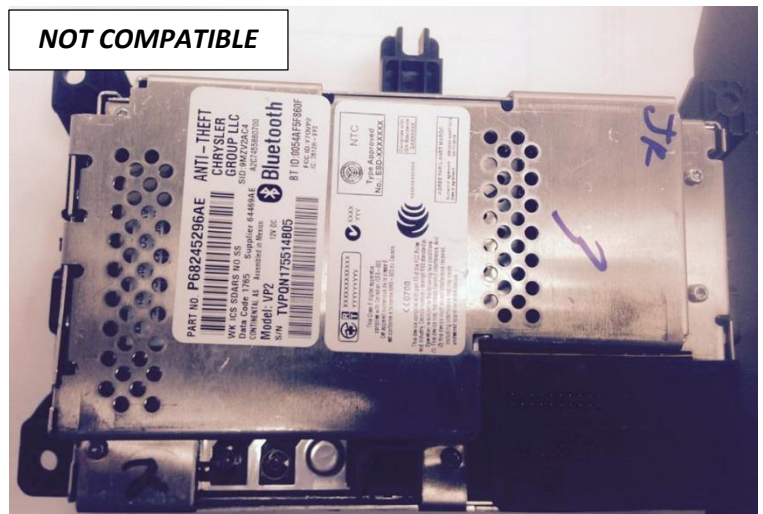
Issue: Jeep GC modification board ribbons will not line up.

Fix: This was covered in an earlier email, but to reiterate, there are 2 types of 5" RA2 radios in Jeep Grand Cherokees. One is made by HARMAN and has heat-sinks, the other has **NO HARMAN** logo and no heat-sinks. See below for radio differences:

COMPATIBLE



NOT COMPATIBLE



Issue: Factory image is fine, switch to NAV mode and you get GHOSTING, or FLICKERING image, or LINES.

Fix: This usually indicates bad hardware. Connecting something wrong at some point may have shorted something in the interface. Swapping the GPS interface has solved this issue in the past.