CRUX®
INTERFACING SOLUTIONS

ACPAD-01W

Smart-Play Smartphone Connectivity Interface for
Audi Vehicles with Concert / Symphony Non MMI Radios

PRODUCT FEATURES:

- Smart-Play integration system allows connection of Android and other smartphones to the Audi non-MMI system
- Integrates wired/wireless Android Auto & CarPlay, smartphone mirroring.
- Control Apps using the smartphone's voice control feature or touch panel provided.
- Retains functionality of the OEM back-up camera, if present.
- Includes AMI to RCA auxiliary adapter cable.

NOTE: Vehicle must have AUX Input port or AMI port

NOTES:

Vehicle MUST have a NAV button on the steering wheel controls or part will **NOT** function.
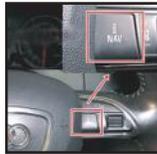
Vehicle MUST have the MMI controls on the radio.

PARTS INCLUDED:

ACPAD-01W Module

Power/Video Harness

LVDS In/Out Cable

Smart-Play Interface Module
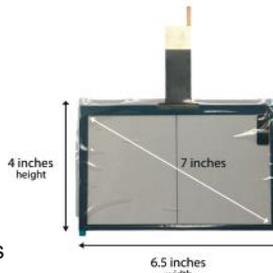
4K HDMI Cable

AMI to 3.5mm Aux Adapter Cable**

Touch Panel 6.5 inches included

Microphone

OSD Controller

* = Please measure your infotainment display
to match CRUX touch panel.
Email issues@cruxinterfacing.com with issues.

**= Please make sure AMI port or 3.5 mm AUX port is present in vehicle

4 inches height
7 inches
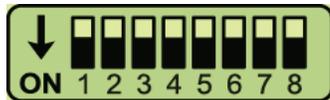6.5 inches width

(Optional, sold seperately)*

Smart-Play Module Power Harness

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INSTALLATION DIAGRAM:
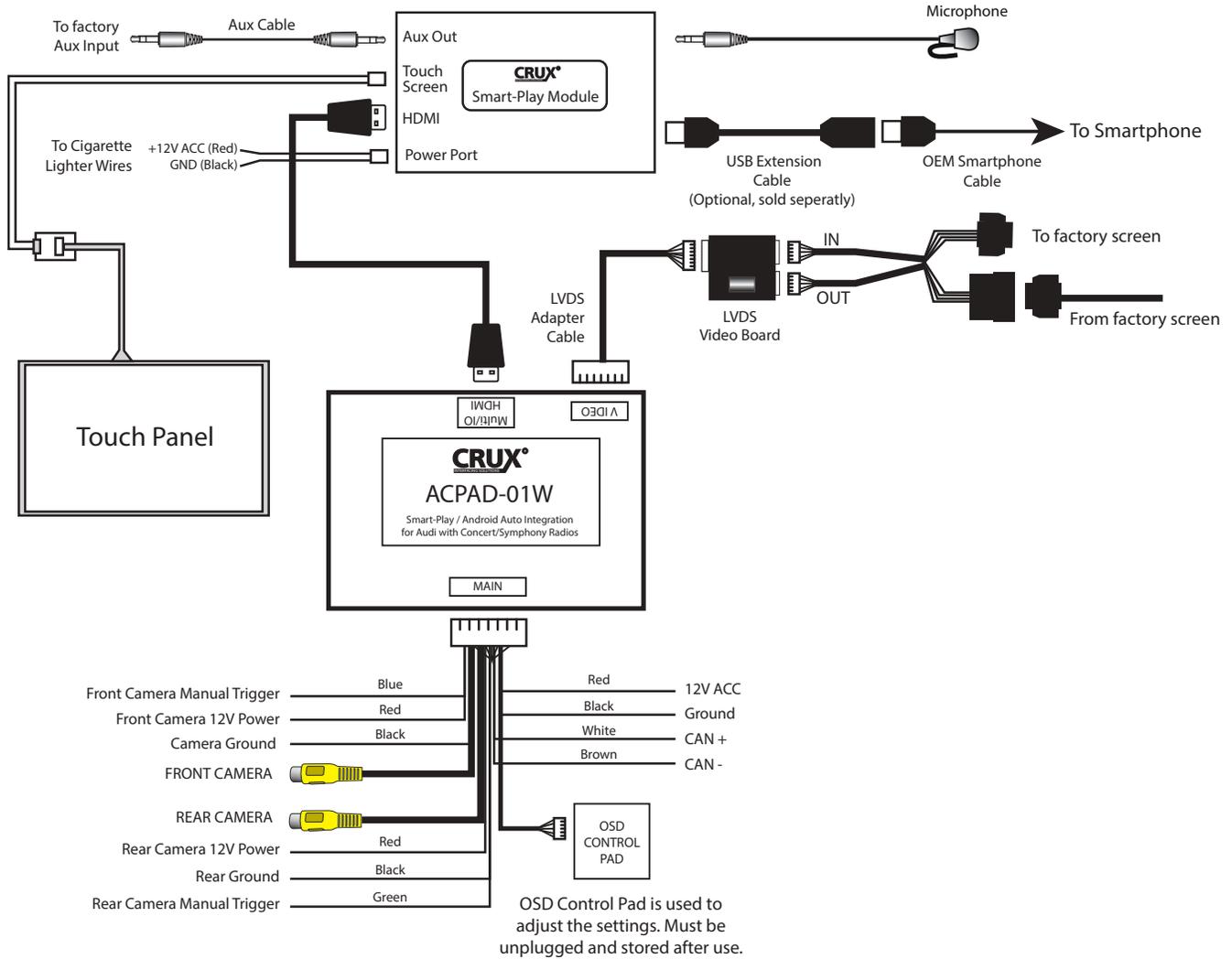
DIP SWITCH SETTINGS:

Note: ON is down and OFF is up

DIP	SETTING	SCREEN SIZE	VEHICLE
1 to 8	ALL OFF	7"	A4, S4, A5, S5, Q5

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INSTALLATION INSTRUCTIONS:

1. Carefully remove the dash panel trim with a plastic pry tool. Work your way around the panel to avoid damaging it.

2. Unplug the connector behind the dash panel trim.

3. Carefully remove the air vent using a plastic pry tool. Work your way around the vent to avoid damaging it.

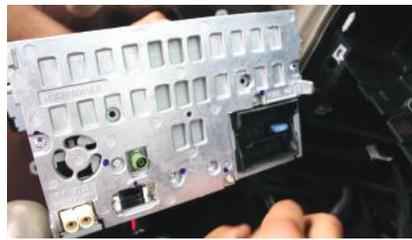4. Unplug the 2-pin connector behind the air vent.

5. Remove the AC control module with a plastic pry tool.

6. Unplug the 2 connectors behind the AC control module.

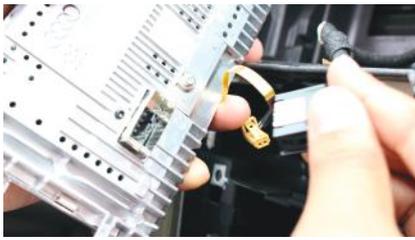7. Remove the 4 screws holding the radio.

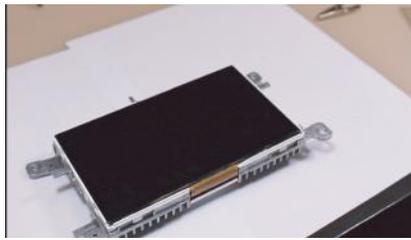8. Unplug the radio connectors, antenna and set aside the radio.

9. Remove the OEM screen by removing the 4 T-20 torx screws on each corner.
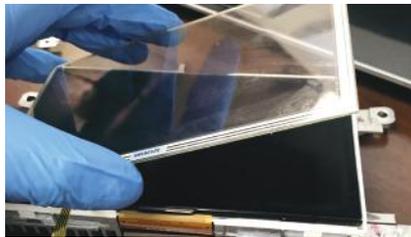
10. Unplug the 10 pin LVDS connector.

11. On a clean, flat surface, remove the 4 screws holding the screens metal frame.

12. Using a flat head screw driver, carefully pry the locks to release the metal frame.

13. Gently peel off the touch panel's protective film on both sides.

14. Lay the touch panel on top of the OEM screen.

15. Reinstall the metal frame as shown above being carefull not to damage the flexible circuit.

16. Reinstall the 4 screws holding the metal frame. Touch panel installation is now complete

17. Connect the touch screen's flexible circuit to the touch panel PCB/cable provided.

18. Plug the 10-pin LVDS connector on the LVDS cable provided to the OEM screen.

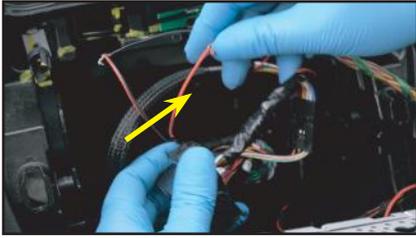19. Plug the OEM LVDS connector to the LVDS cable provided in the kit.

20. Plug in the other end of the touch panel PCB/cable to the Smart-Play module port next to the HDMI port.

21. Install the front and rear cameras (if applicable) and power using the power wires provided.

rev.072121

22. Tap the Smart-Play module power wires to the cigarette lighter wires

23. Plug in the 4K HDMI cable provided with the kit to the Smart-Play module.
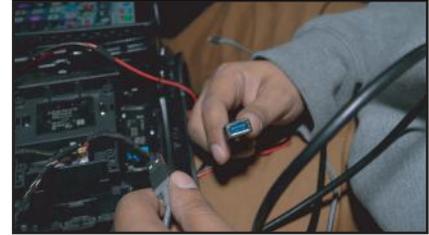

24. Plug the 2 pin power wire connector to the Smart-Play module.

25. Plug in the 4K HDMI cable to the ACPAD-01W module.

26. Plug in the USB extension cable to the Smart-Play module if wired CarPlay /Android Auto is desired.

27. Run the other end of the USB extension cable to an accessible location.

28. Plug the AMI to 3.5mm Audio adapter to the AMI port in the glove box.

29. Run the 3.5mm plug cable towards the radio. We suggest inserting it into the hole as pictured above.
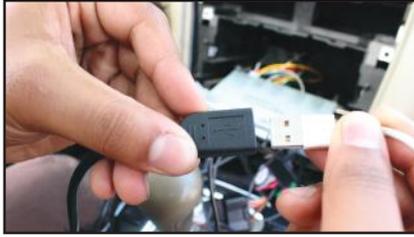

30. Plug the 3.5mm Audio plug to the Aux input of the Smart-Play module.

31. Mount the microphone to the desired location. Run the cable towards the Smart-Play module location and plug it into the Mic port.

Line Out (Aux)   Touch   HDMI   Power Port

USB   Mic In
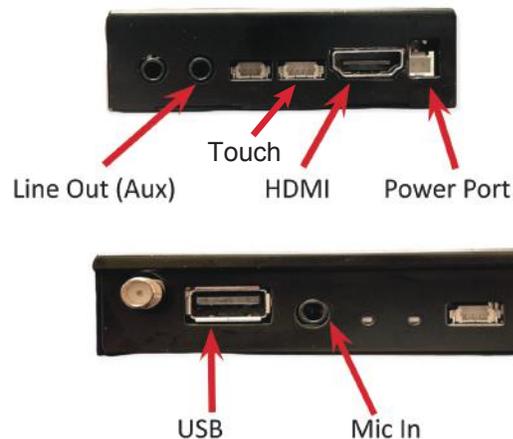
32. Plug in a OEM smartphone cable to the USB extension cable and test for wired CarPlay and Android Auto functionality.
For AA and other 2-way mirroring devices use the touch screen.

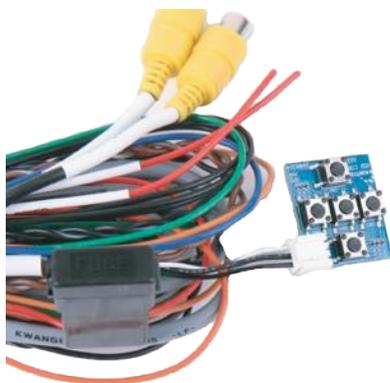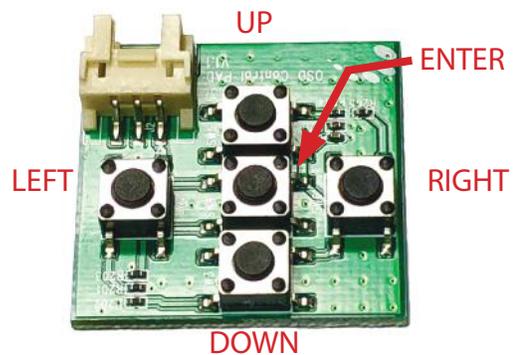33. Resintall the radio, AC control module and dash panel trim by reversing the process.

OPERATION:

To enter and exit the Smart-Play mode, press theNAV button on the steering wheel controls for 2 seconds.

ON SCREEN DISPLAY (OSD) SETTINGS:

The OSD Setting Screen automatically pops up when the OSD Control Pad is connected.

OSD Control Pad

UP

ENTER

LEFT   RIGHT

DOWN

Use the OSD menu to make the necessary settings. Remember to Run Save&Reboot after the settings are made. Unplug the OSD Control Pad after setting the cameras and keep it in a secure location in case it is needed to change the settings.
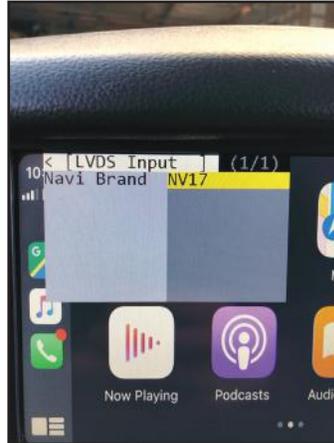
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SMART-PLAY SETTING

After plugging in the OSD controller, navigate down to LVDS Input and set to ON. Push RIGHT button to go to the next menu.
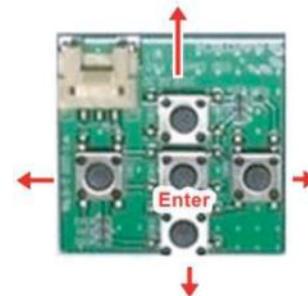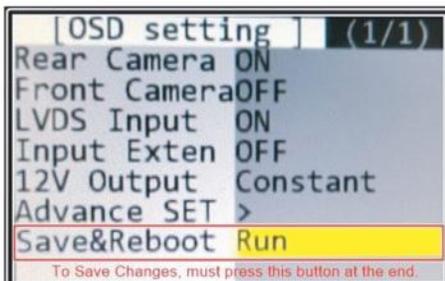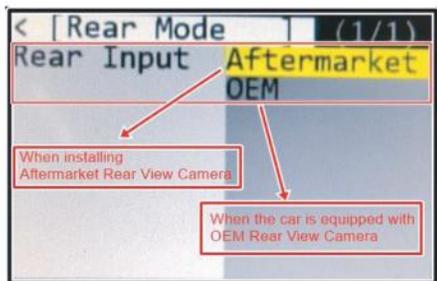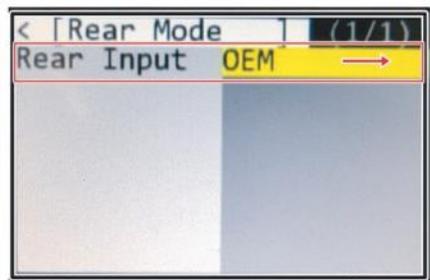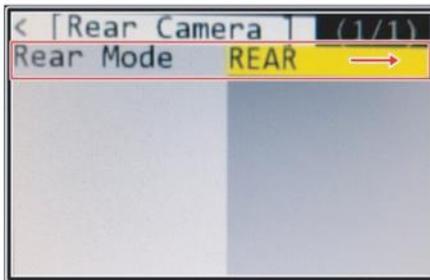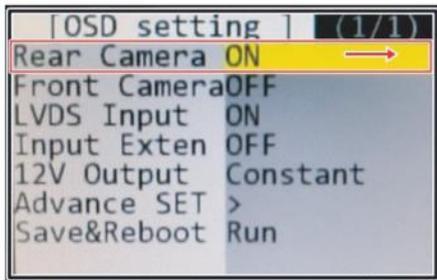
Set Navi Brand to NV17

Navigate the OSD back the main menu and go to Save&Reboot then Run.

REAR AND FRONT CAMERA SETTING

rev.090821

Crux Interfacing Solutions • Chatsworth, CA 91311
phone: (818) 609-9299 • fax: (818) 996-8188 • www.cruxinterfacing.com

WIRELESS CARPLAY/ WIRELESS ANDROID AUTO CONNECTION SETTINGS

Android Auto Wireless connection

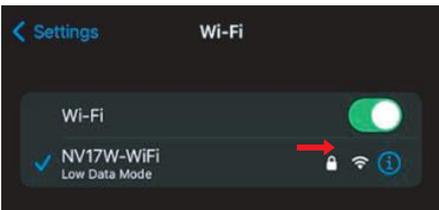Have Android AutoLink OFF

Have wifi & Bluetooth enabled.

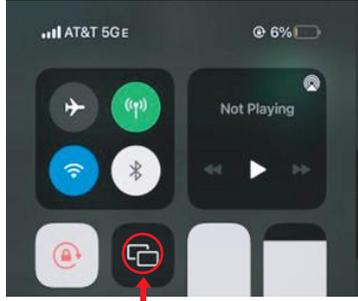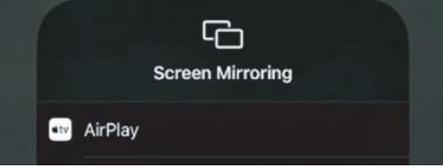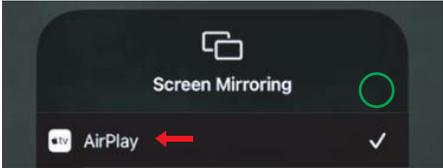### Apple Carplay Wireless Connection

Have wifi & Bluetooth Connected

Wait for screen that will state
Use Carplay with "NVF17W-WIFI"

SMARTPHONE MIRRIORING CONNECTION

Smartphone Mirroring Connection for Iphones

Enable Wi-Fi and connect to " NV17W " module

Open Control Center and Tap Screen Mirroring

  a. On iPhone X or later; iPad with iPadOS 13 or later: Swipe down from the upper-right corner of the screen.

  b. On iPhone 8 or earlier or IOS 11 or earlier: Swipe up from the bottom edge of screen

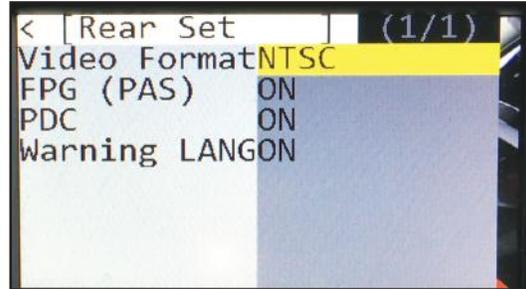Airplay will pull up on sreen mirroring app

Select " Airplay "

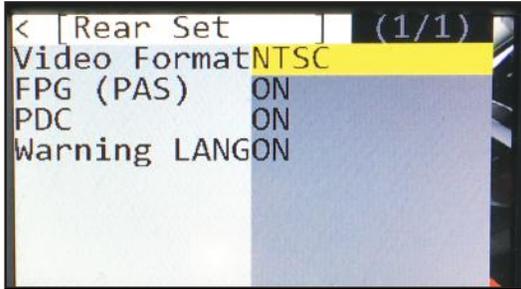### Smartphone Mirroring Connection for Androids

Enable Android AutoLink

Download AutoLink Pro APP Available in the "Play Store"

## Dynamic Parking Guide Lines


To turn ON the Dynamic Parking Guide Lines, go the Rear Input > Rear Set and turn ON Warning LANG. Go back to the root menu and Run Save&Reboot. Remember to unplug the OSD Control Pad otherwise the unit will not function properly. Set the parking brake on, start the car, put the gear in reverse, turn the steering wheel all the way to the left and all the way to right then put it in the center. The ACPAD-01W will calibrate automatically.

FRONT CAMERA SETTING
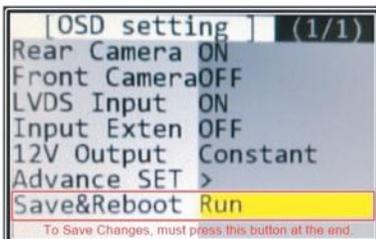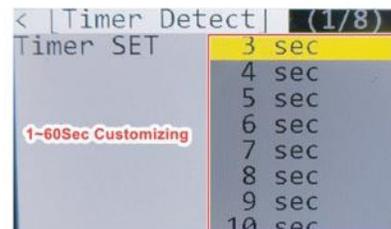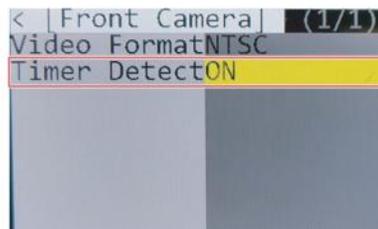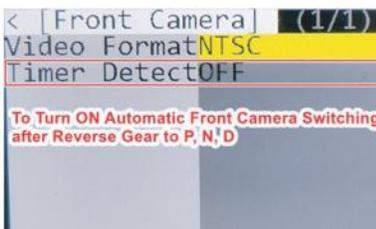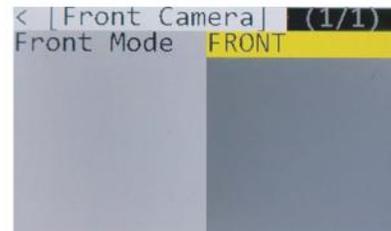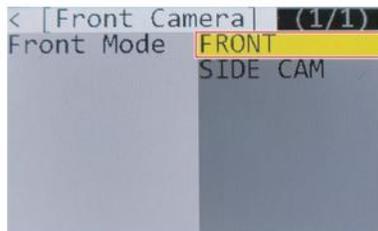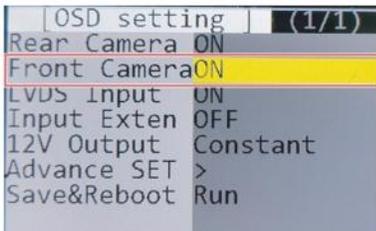
The front Camera will automatically show on the screen when the gear is put to Drive from Reverse. Set the delay time on the OSD menu. Delay time can be set from 1 to 60 seconds after a putting the car to drive from reverse.

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VEHICLE APPLICATIONS:

Audi

2009 - 2016   A4, S4, A5, S5, Q5

Note: Please make sure your vehicle is equipped with the 7" screen.

COMPATIBLE RADIOS:

MMI Control knob for Concert and Symphony systems is on the dashboard.
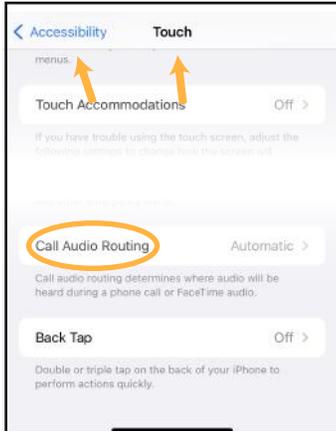

Symphony Radio

Concert Radio

TROUBLESHOOTING

*If your call audio does not use car's bluetooth, manually change it on the phone to select the vehicle during the call, then the phone should remember the last used setting

Changing the call audio routing setting to "BLUETOOTH HEADSET"
Go to Settings - Accessibility - Touch - Call Audio Routing. Keep it at "Automatic"

1. IF the screen is black & not showing factory infotainment screen or the CarPlay/Android Auto Screen
   - Confirm secure connection of LVDS cables to the top monitor.
   - Confirm LVDS cables are not damaged, pinched, kinked or bent.

2. No trigger issue /No click heard when long hold applied on NAV button
   - Check and confirm proper connection of the Main Car Interface Harness,
   CAN bus board, and 30-pin Car Interface Harness.
   - Check and confirm no loose pins or damage to the harness. Green/RED LED Light should be
   visible from the Metal Box

3. When long hold is applied on NAV button, black screen appears
   - Confirm proper secure connection of the HDMI Cable.
   - Confirm power wire is connected on the CarPlay Box. Red LED light should be visible from
   the CarPlay Box.

4. Screen image glitching or distorted
   - Confirm correct dip switch setting.

5. Hands free call quality noise and echo
   - For iPhone, confirm the phone is connected to your vehicle via Bluetooth and
   "Call Audio Routing setting" Keep it at "Automatic"
   - For Android, confirm Bluetooth is being used for calls by observing phone's call audio output.

6. No sound
   - Confirm AUX cable connection, which is on the HDMI side of the CarPlay Box.
   - Confirm Car Media Source is in AUX mode. Confirm sound output from the phone to NV17W CarPlay.

7. Siri does not recognize my voice
   - Confirm Microphone jack connection (3.5mm), which is on the USB side of the CarPlay Box.
   - Confirm that there are no wire damage.

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