NAV-TV

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IOT-RVC

NTV-KIT951

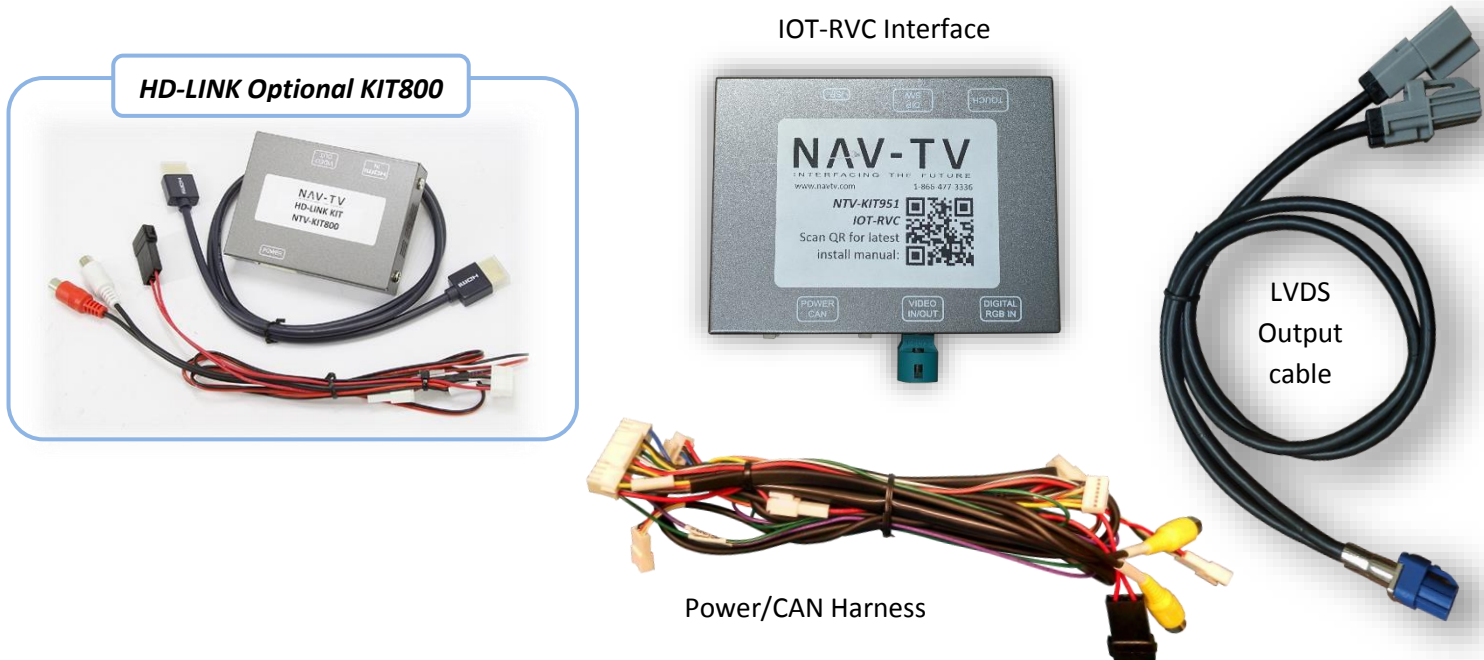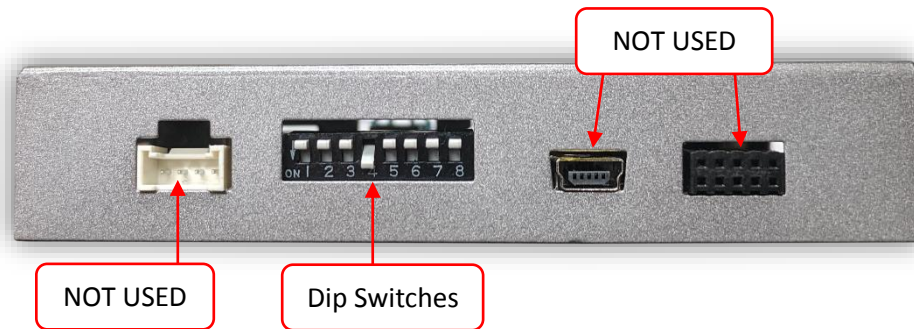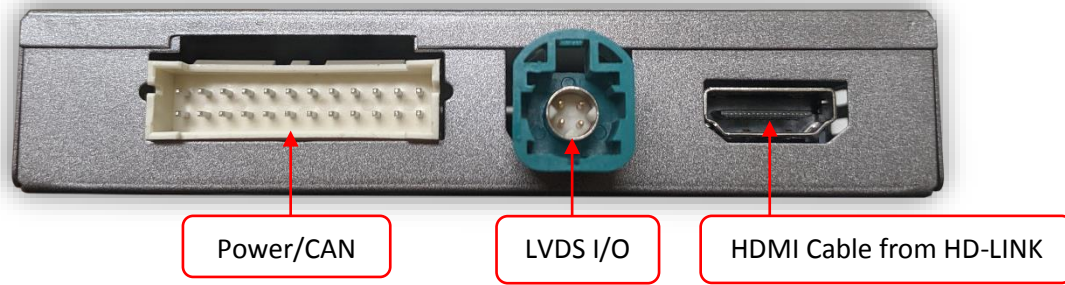| Quick Reference |
| --- |
| (LVDS) Video Cable connects at *Radio* |
| Power/CAN   Harness connects at *Radio* |
| Unit requires **Constant 12v** |
| ***Do not power camera with reverse light.*** |
| Use ACC or purple wire (through relay) |

Overview

The IOT-RVC interfaces a backup camera input (and 1 additional video input) to the factory media screen in select GM vehicles equipped with either the **MYLINK** or **CUE** (8" only) IOS or IOT media systems (2019+ only). *With KIT800, HDMI input is available with this unit.*

Kit Content

IOT-RVC Interface

HD-LINK Optional KIT800

LVDS Output cable

Power/CAN Harness

Interface Connectors

Power/CAN   LVDS I/O   HDMI Cable from HD-LINK

NOT USED

NOT USED   Dip Switches

Dip Switch Settings (Configure prior to installation)

Dip SW:	1	2	3	4	5	6	7	8
UP	HDMI OFF	CVBS OFF				*NOT USED*		
DOWN	ADDING HDMI*	CVBS ON		**SEE BELOW**		*NOT USED*	X	X

HDMI input requires KIT800

Dip SW:	3	4	5
UP		X	X
DOWN	X		

OEM RVC and adding aftermarket Front Camera

Dip SW:	3	4	5
UP			
DOWN	X	X	X

OEM RVC ONLY (adding HDMI INPUT)

Dip SW:	3	4	5
UP	X		X
DOWN		X	

Adding aftermarket rear camera ONLY

Dip SW:	3	4	5
UP	X	X	
DOWN			X

Adding aftermarket RVC & aftermarket FVC

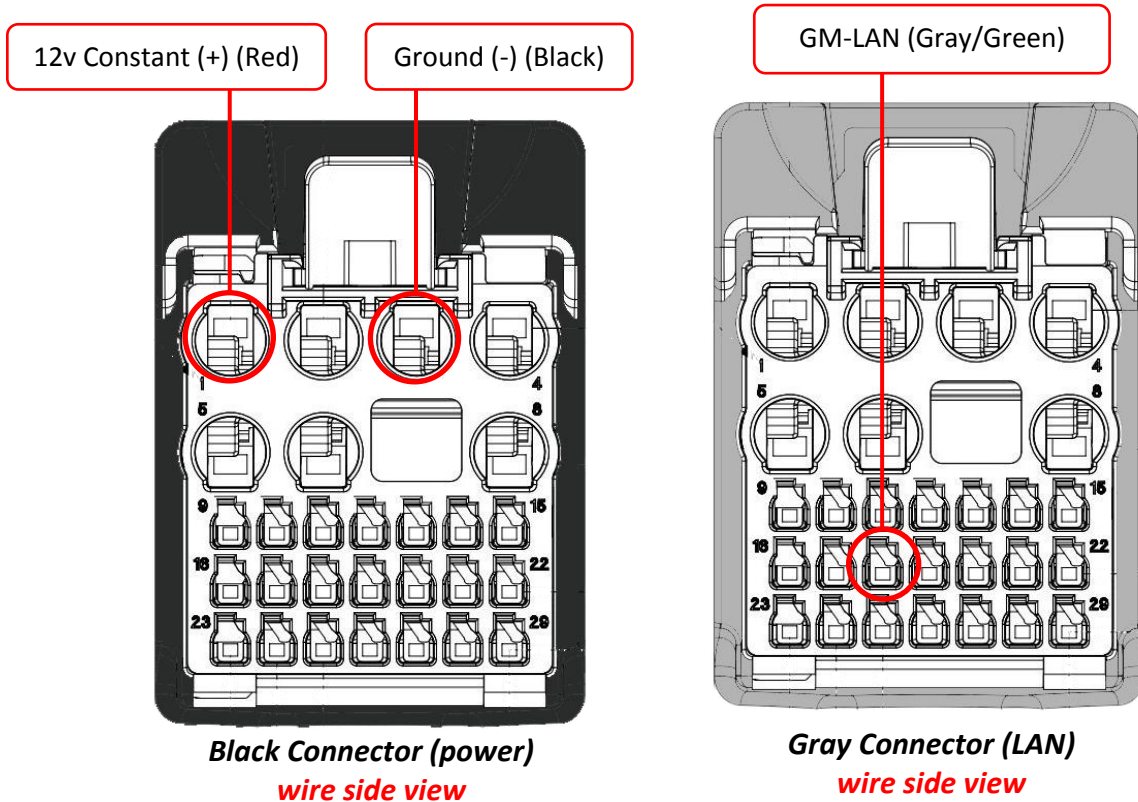| Interface Installation (GM Truck) |
|:---:|

THIS INTERFACE INSTALLS AT THE RADIO TUNER, *NOT* AT THE SCREEN!

1. Locate the IOS/IOT GM radio tuner. For pickup trucks, this should be located **behind the glove box, mounted vertically, up high.**

2. The 2 connectors required for wiring the unit in are circle here (right):

3. From the provided Power/CAN harness, connect the following:

Interface Wire	Function	Connector Color	Connect to OEM
Black	Ground (-)	Black (A)	Black (PIN 3)
Red	Constant 12v (+)	Black (A)	Red (PIN 1)
Blue	CAN HIGH	Gray (B)	Gray/Green (PIN 20)

12v Constant (+) (Red)   Ground (-) (Black)   GM-LAN (Gray/Green)

Black Connector (power)
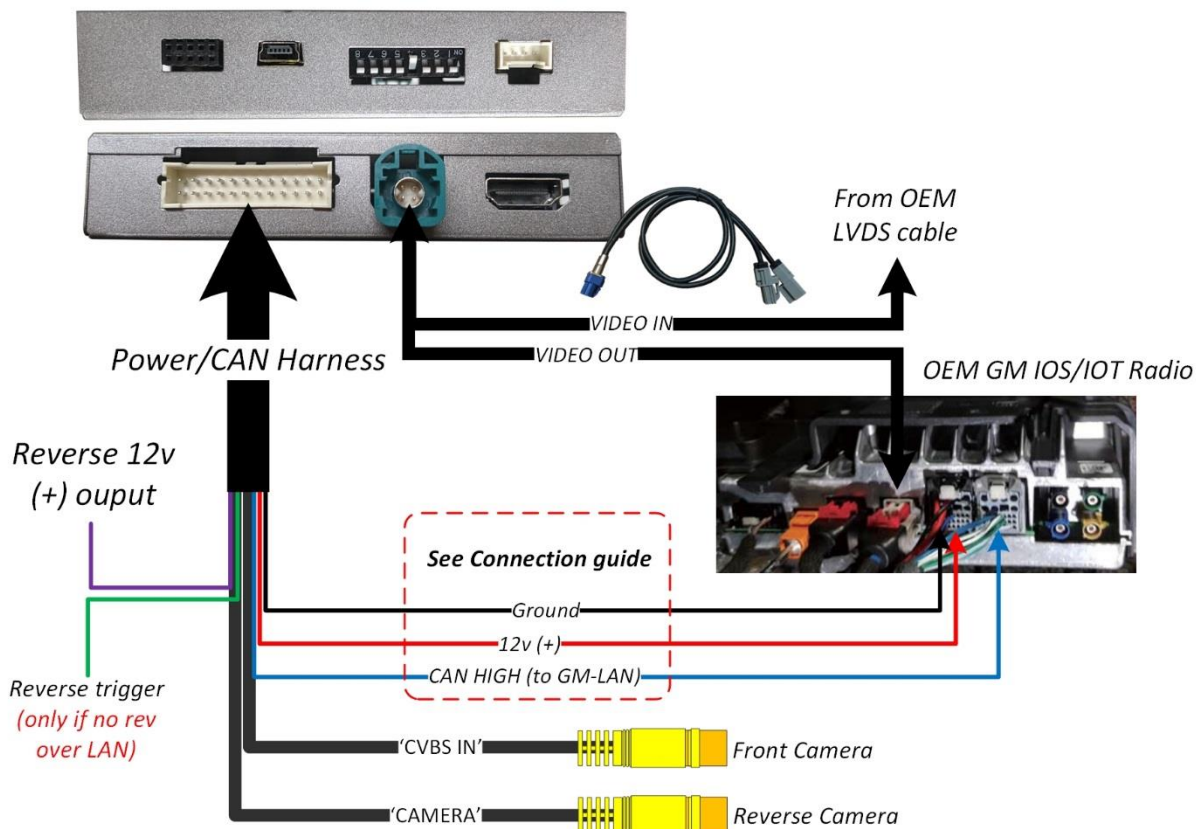*wire side view*

Gray Connector (LAN)
wire side view

4. No other wired connections are needed for a basic install. If adding a camera, the *purple wire* outputs 12v *in reverse only* (vehicle muse be running) for power to camera.
5. Disconnect the OEM LVDS cable (gray connector, blue cable. Red lock tab must be unlocked first) and insert the male side into the radio tuner. Connect the OEM cable to the female end of the provided LVDS I/O cable.

6. Connect the blue end of the provded cable to port LVDS port on the IOT-RVC interface.

7. Connect the reverse camera (if added) and front camera (if applicable) to the proper RCAs (RVC: 'CAMERA' and FVC: 'CVBS IN')
8. Proceed to 'IOT-RVC Operation

From OEM
LVDS cable

VIDEO IN
VIDEO OUT
Power/CAN Harness
OEM GM IOS/IOT Radio

Reverse 12v
(+) ouput

See Connection guide

Ground
12v (+)
CAN HIGH (to GM-LAN)

Reverse trigger
(only if no rev
over LAN)

'CVBS IN' Front Camera

'CAMERA' Reverse Camera

IOT-RVC Operation

- After all connections are made and ***dip switches set properly***, start the vehicle. Placing the vehicle in reverse will show the connected rear camera, with dynamic guidelines overlaid onto the media screen.

- If adding a front camera, this must be activated *by setting DIP SWITCH #2 to ON*. Forcing this camera on at any time is performed by holding the ***Voice Recognition (2 sec)*** button or pressing the phone ***Hang-Up*** button on the steering wheel (shown below).

- *The module will cycle through video modes in this order: **OEM>HDMI>AV1>OEM**, and will only show inputs that are active. Use the same buttons to return to OEM screen.*

Hold (2 seconds)

Press & Release

Adding HD-LINK Adapter (HDMI Input, optional)

Follow the instructions below when adding the HDMI adapter (HD-LINK: KIT800) to enable HDMI input to the OEM screen:

1. Disconnect the main power plug from the IOT-RVC interface.
2. Put dip switch #1 in the **DOWN** position.
3. Reconnect the main power plug.
4. Connect the **black wire** to ground (-) and the **red wire** to ACC power (+) from the main power connector on the *HD-LINK* adapter. The RCA's on this plug provide audio from the HDMI source.
5. Activate the HDMI input by **holding** the *Voice Recognition button (2 seconds)* or pressing the *Hang-Up* button once on the steering wheel.