

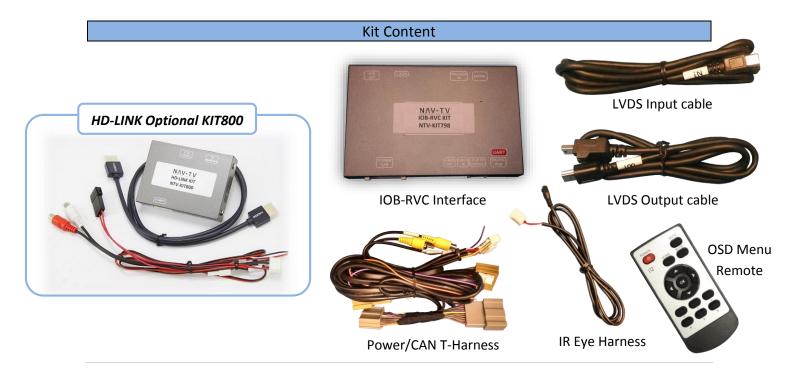
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IOB-RVC NTV-KIT798



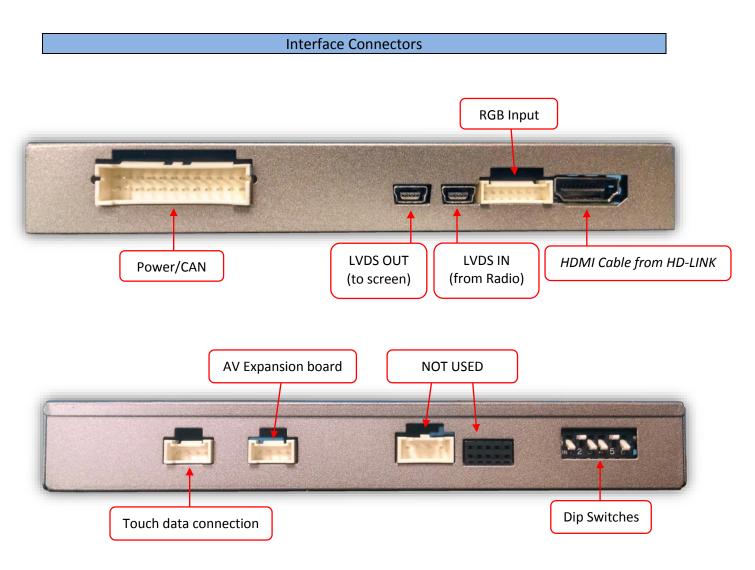
Overview

The IOB-RVC interfaces *a single backup camera input* to the factory media screen in select GM vehicles equipped with 7" MYLINK (IOB) media systems. With additional parts, HDMI input or Navigation is available with this unit (available soon). *Audio integration requires the use of the OEM AUX input if adding an A/V source.*



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Dip Switch Settings* Configure prior to installation

Dip SW:	1	2	3	4	5	6
UP	DIGI-RGB	N/A	NO NAV	OEM	N/A	Leave
	OFF			camera		DOWN
DOWN	DIGI-RGB	N/A	ADDING	Adding	N/A	Leave
	ON		NAV	rear cam		DOWN



*Note: You must remove power to the unit prior to making adjustments to the dip switches. When power is reconnected after the dip switch adjustment the new settings will be stored into memory.

Screen Removal and Interface Installation (Silverado)

NOTE: After completing installation, you MUST perform a CAN reset to the vehicle: Close all doors and lock, return in 10 minutes before testing unit.

- 1. Remove the trim surrounding the main media screen using plastic tools and set it aside.
- Remove (4x) 7mm screws securing the screen assembly to the sub-dash. Disconnect all connectors and set the screen aside.
- Locate the (gray & brown) OEM plugs connected to the radio indicated here (right), and connect the provided *T-Harness* portions of the



Power/CAN Harness in between the car side and the radio.

- Connect the OEM LVDS Video Cable previously removed from the screen (not the radio) to the port on the IOB-RVC interface labeled 'VIDEO IN' (use provided extension if necessary).
- Connect the provided LVDS Output Cable from the 'VIDEO OUT' connector on the module, directly to the screen LVDS Video port. Make certain the connector is seated firmly.
- 6. Connect the 12-pin white connector to the module at the port labeled 'POWER CAN'.
- 7. Connect your camera signal RCA to the yellow female RCA among the main power harness labeled 'CAMERA'. NOTE: if this vehicle has an OEM camera, you must connect the male RCA among the
- 8. The *purple wire* on the main power harness *outputs 12v (+) when in reverse only* (500mA max) and may be used for (single) camera power.
- 9. The *green wire* on the main power harness is used to *force the rear cam or AV1 video input RCA* (*selectable through OSD menu. See page 5 for menu options*)
- 10. The clear 4-pin molex connector (from main power harness) is not used.
- 11. Optional: If adding multiple camera/video sources, see FIG 2 on page 8.
- 12. Proceed to *IOB-RVC Operation* on page 4.

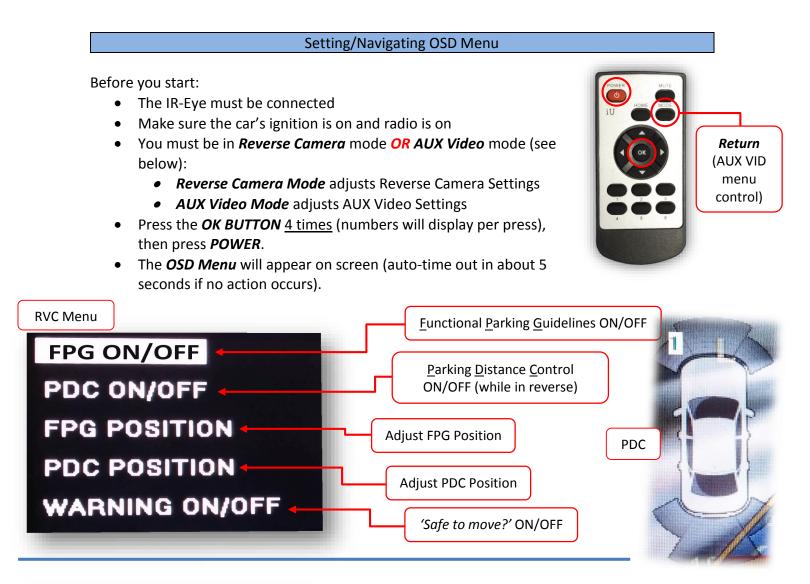
IOB-RVC Operation

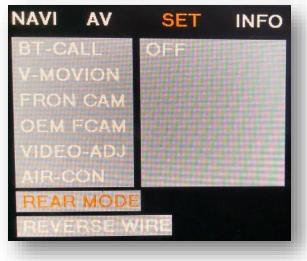
- After all connections are made and *dip switches set properly*, start the vehicle. Placing the vehicle in reverse will show the connected rear camera, with dynamic guidelines overlaid onto the media screen.
- If adding a front camera (requires VSW-R), this must be activated in the OSD menu (see page 5). Forcing this camera on at any time is performed by double-tapping the HOME button on the screen bezel twice. The module will cycle through video modes in this order: OEM>NAV/HDMI>OEM.



- If the user wishes for the front camera to be set on a *timer* (front camera shows after leaving reverse gear, for preset amount of time), activate this feature in the OSD menu (see page 5).
- Holding the *HOME* button for ~5 seconds *while in reverse* will cycle through the available PIP (picture in picture) options.

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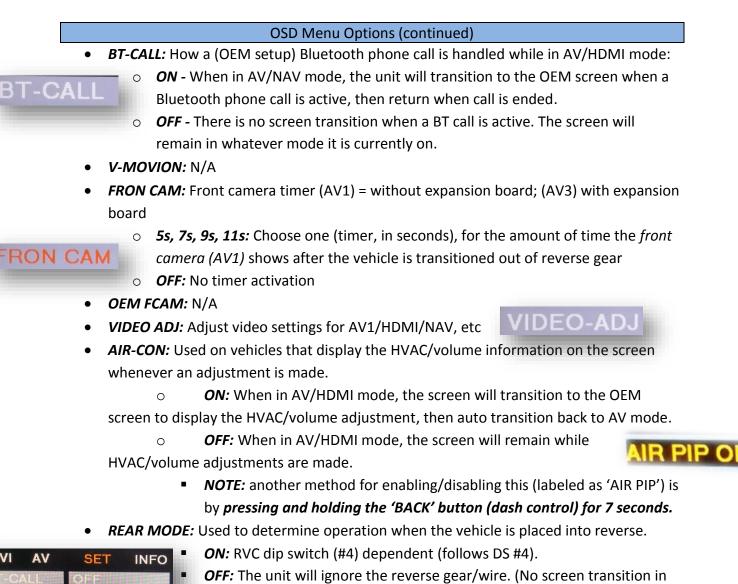




If adding a front camera OR Aux Video source (requires VSW-R):

- 1. Disconnect POWER/CAN Harness from interface
- 2. Place DIP SWITCH 1 in the DOWN position, reconnect power
- 3. Double-tap the HOME button on the dash to activate 'NAV INPUT'
- 4. Press OK button on remote 4 times, then press POWER
- 5. Navigate to 'SET', and set 'REVERSE WIRE' to 'REAR'
- 6. Let OSD menu time-out (5 seconds)
- 7. Follow the diagram on page 8 (FIG 2) and make connections.

Once finished with settings, place DIP SWITCH 1 back into the **UP position** and reset power to interface.



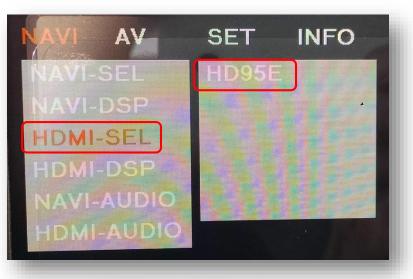
- AV or OEM) • DIP 4 ON: Aftermarket camera input: In AV/HDMI or OEM, the
 - *DIP 4 ON*. <u>Altermarket camera input</u>. In AV HDIM of OEW, the screen will transition to the RVC input when reverse is detected. Will display any extra overlay info, PDC, active guidelines.
 - *DIP 4 OFF*: <u>OEM equipped camera</u>: In AV/HDMI the unit will transition into the OEM screen when reverse is detected.
- REVERSE WIRE: Providing 12v (+) to the green wire acts as an external activation for the selected input (connect through toggle switch, SVS-6, etc).
 - *REAR MODE:* Follows the REAR MODE operation (with guideline overlay and any additional options)
 - **REAR:** Displays the RVC input video in its raw form (no extra overlays)
 - AV1: Displays AV1 input

Adding HD-LINK Adapter (HDMI Input)

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



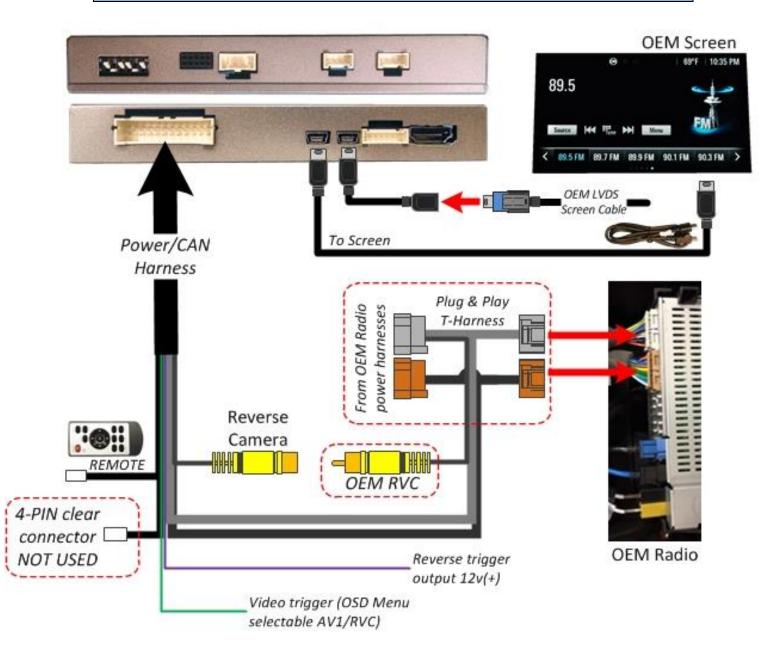
- 1. Put dip switch #1 in the **DOWN** position.
- Activate the 'NAV INPUT' by double-tapping the 'HOME' button on the dashboard.
- Once 'NAV INPUT' shows on the screen, on the remote press the OK BUTTON <u>4 times</u>, then press POWER.
- 4. Navigate to the 'NAVI' section.
 - a. Select 'HDMI-SEL'
 - b. Choose 'HD95E'
 - c. Press *MODE* on the remote to return and exit the OSD menu (or let it time out).
- 5. Replace dip switch #1 to the **UP** position.
- 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.





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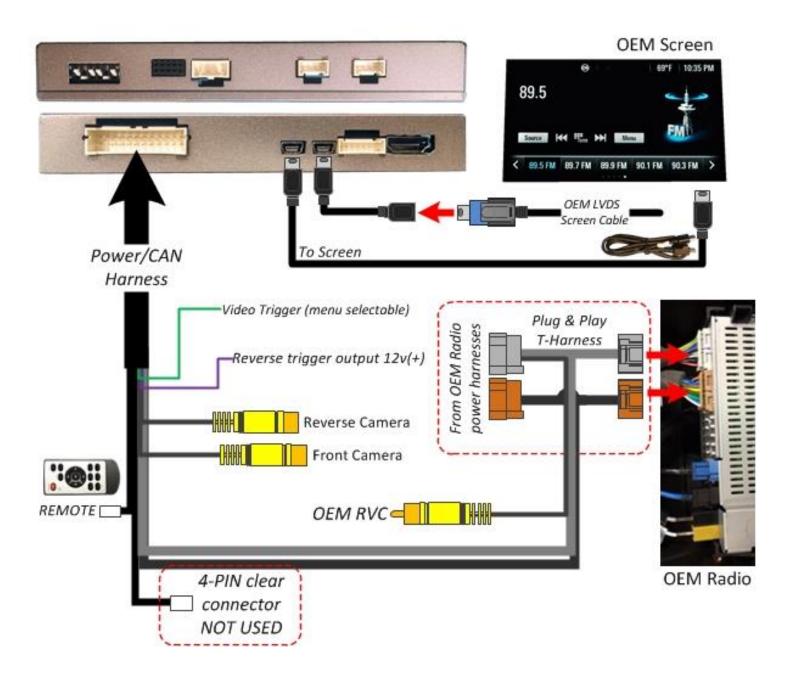
FIG 1: IOB-RVC Connection Diagram (adding single aftermarket RVC)



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FIG 2: IOB-RVC Connection Diagram (adding FVC or AUX Video)



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IOB-RVC FAQ

1. I've installed this interface properly, now I have a black screen in park and reverse.

- a. Make certain the IN and OUT LVDS video cables are connected in the proper location (at the screen and proper direction), and seated fully. The 'OUT' cable should go directly to the screen, and the 'IN' cable is really just an extension, and should be connected from the OEM LVDS cable previously connected to the screen.
- b. This kit connects at the *screen* for video interception.
- c. Make sure the provided 'OUT' connector at the screen is seated fully into the screen (may need to wiggle it in or even shave some rubber from the plastic).
- d. Verify the LEDs on the inside of the unit are twinkling with the key on. If not, check the fuse on the *red* power line going into the main connector of the unit.

2. Nothing happens when I place the vehicle in reverse – it stays on the OEM screen.

- a. Be certain DIP SWITCH #4 is ON (down). This enables the RVC port on the module.
- 3. The connectors are not the same for the plug & play portion of the T-Harness, behind the screen.
 - a. Verify you have an 'IOB' RPO code located on the OEM RPO sticker (glove box or spare tire well). If this vehicle has an 8" IO5 or IO6 radio, this unit is not compatible.

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