

# NAV-TV

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BHM  
10/18/18  
NTV-DOC291

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## GVIF-Volvo

NTV-KIT805



Quick Reference
(GVIF) Video Cables connect at <b>Screen</b>
Power/CAN Harness connects at <b>Radio</b>
Unit requires <b>Constant 12v</b>
<b>Do not power camera with reverse light.</b> Use ACC or purple wire (through relay)

### Overview

The GVIF-Volvo Kit interfaces a backup camera (with dynamic guidelines) and one additional video input (front cam, etc) to the factory media screen in select 2016 Volvo vehicles with the 7" media screen.

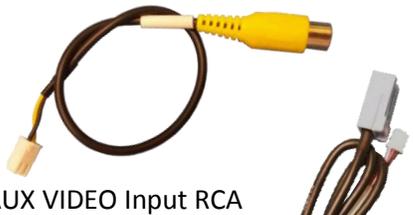
### Kit Contents



IR-Eye Cable



GVIF-Volvo Interface



AUX VIDEO Input RCA

#### HD-LINK Optional KIT800



Power/CAN Harness



GVIF-OUT Cable

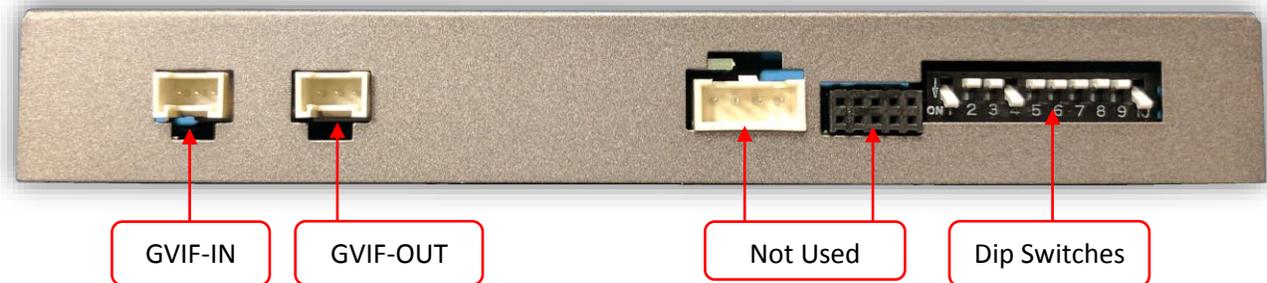


OSD Menu Remote

GVIF-IN Cable

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Interface Connectors



Dip Switch Settings

Dip SW:	1	2	3	4	5	6	7	8	9	10
UP	Skips RGB	Skips V1	Skips V2	<b>RVC OFF</b>	N.C.	CAN TYPE	CAN TYPE	N.C.	N.C.	<b>Keep Down</b>
DOWN	Enables RGB	Enables V1	Enables V2	<b>RVC ON</b>	N.C.	CAN TYPE	CAN TYPE	N.C.	N.C.	<b>Keep Down</b>

| See Below |



2016 S60, XC60



2016 V40



2016 V60



2016 XC70



**Disconnect power before adjusting dip switches.**

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## GVIF-Volvo Installation

1. Remove the factory screen, and radio (CD player). Connections for this installation require both locations to be accessible.
2. Behind the screen, locate the OEM **blue** GVIF video connector. Connect the provided **GVIF-OUT Cable** to the screen where the OEM video cable was connected previously.
3. Connect the other end of this provided cable to the interface at the port labeled 'VIDEO OUT'.



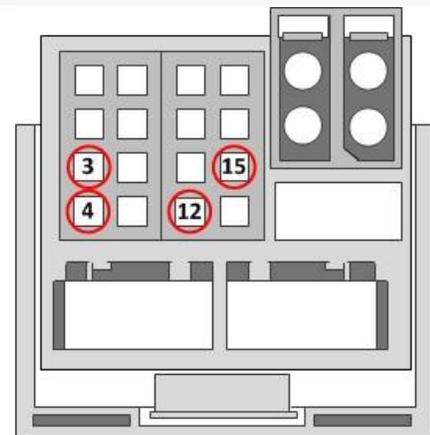
4. Connect the OEM video cable to the provided **GIVF-IN Cable**. Connect the other end of this provided cable to the interface at the port labeled 'VIDEO IN'.



5. With the provided **Power/CAN Harness**, Connect the following wires to the radio's main power plug:
  - a. **Black wire** to **PIN 15 (ground)**
  - b. **Red wire** to **PIN 12 (12v constant)**
  - c. **Blue wire** to **PIN 3 (CAN HIGH)**
  - d. **White wire** to **PIN 4 (CAN LOW)**



**NOTE:** If unit does not switch to reverse correctly (via CAN) after complete installation and all dip switch settings tried, SWAP Blue & White CAN wires (HI / LOW) and try again.

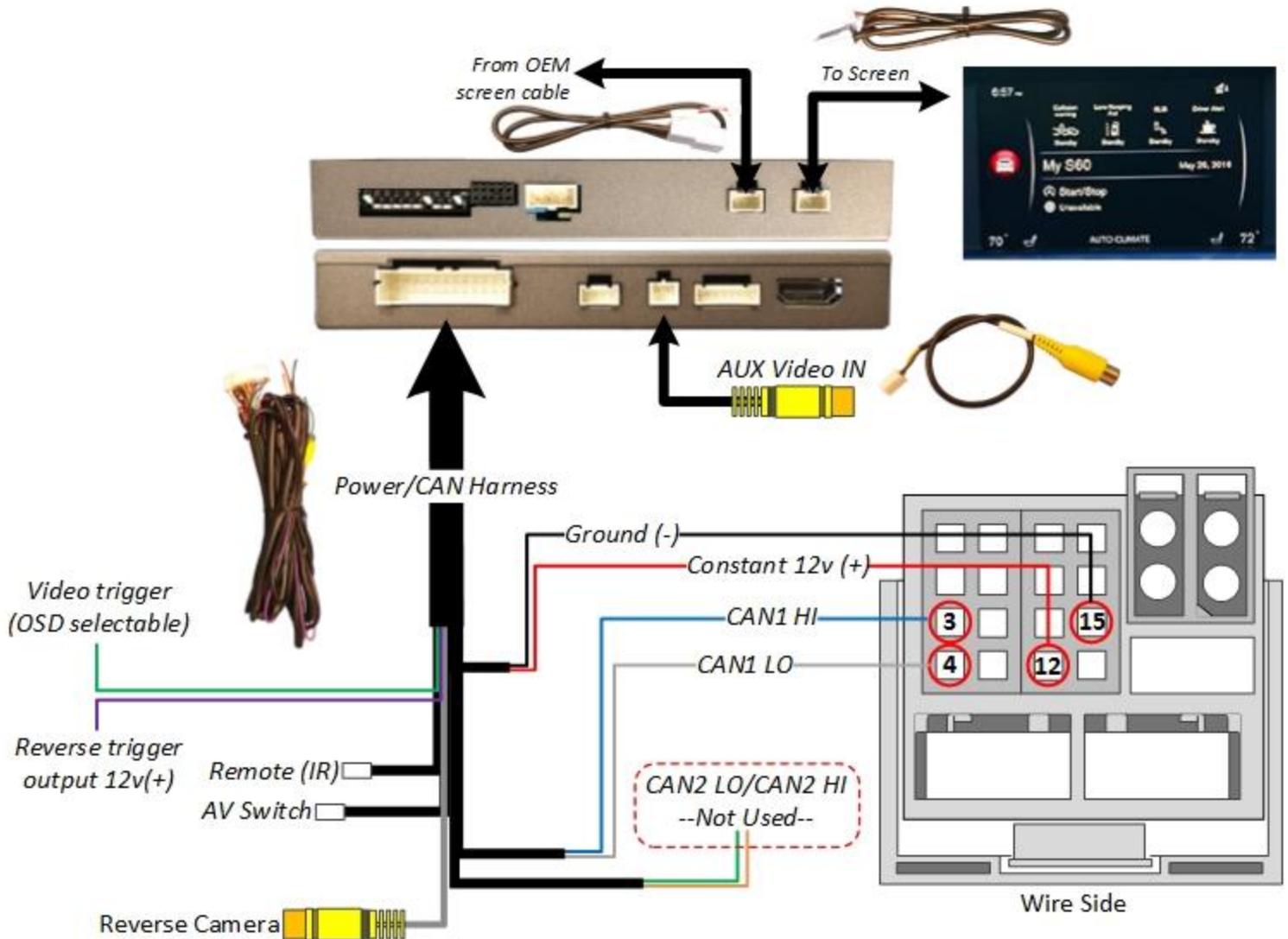


Wire side

**NOTE 2:** CAN2 wires (orange & green) are NOT used for this installation, cut off and insulate.

6. **Optional:** If desired, the **green wire** may be used as a trigger for forcing rear camera or AUX video input (see OSD menu settings)
7. **Optional:** The purple wire may be used to power a (single) rear camera (12v + reverse ONLY, 500 mA MAX)
8. **Optional:** Connect the provided **AUX Video Input cable** RCA to the port labeled 'AV IN' if adding a front camera or aux composite video input.
9. Connect the main Power/CAN harness to the interface at the proper port.
10. Reconnect all plugs to the radio and screen and proceed to 'GVIF-Volvo Operation'.

GVIF-Volvo connection diagram

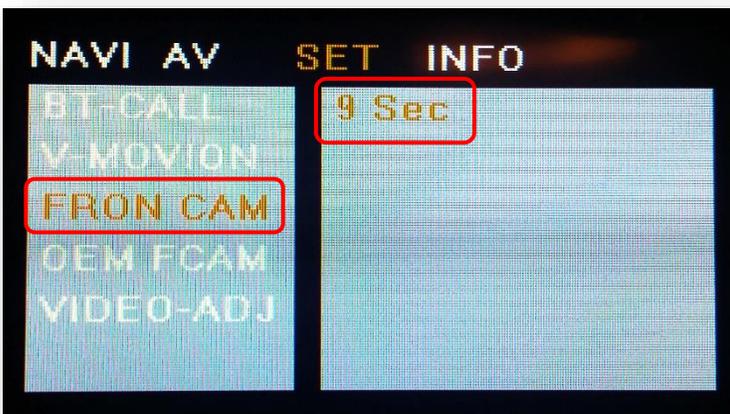
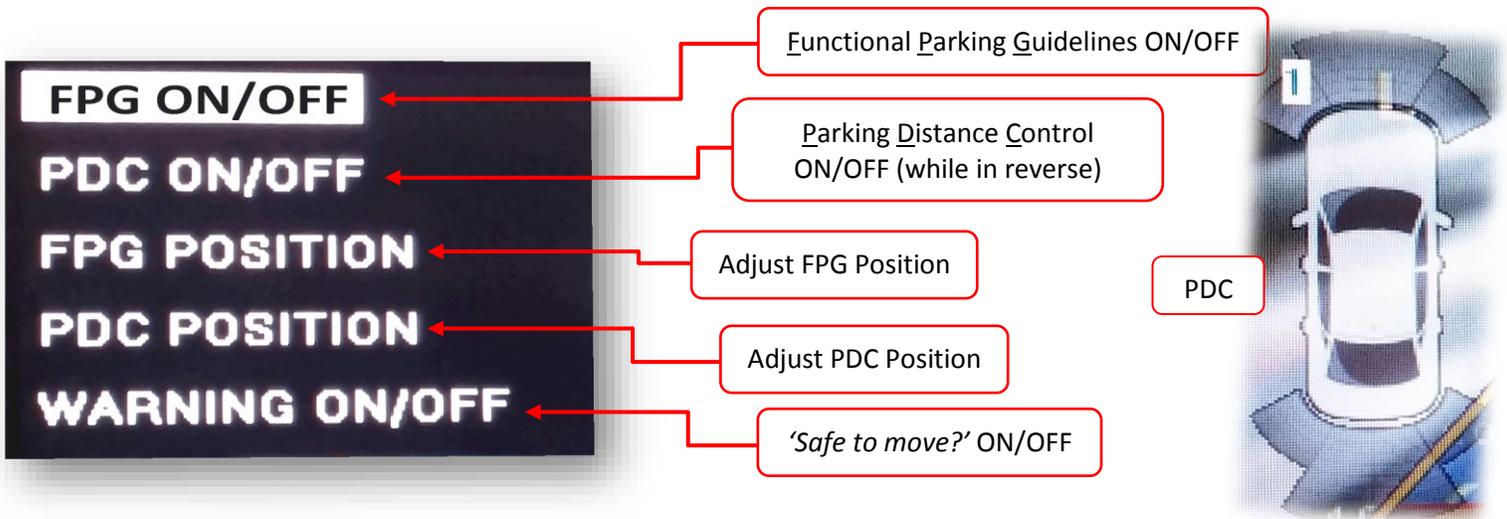


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## Menu Adjustments

Before you start:

1. The IR-Eye must be connected, the AV toggle switch must be connected (main harness)
2. Make sure the car's ignition is on and radio is on
3. You must be in **Reverse Camera** mode **OR** **AUX Video** mode.
  - **Reverse Camera Mode** adjusts Reverse Camera Settings
  - **AUX Video Mode** adjusts AUX Video Settings
4. Press the **OK BUTTON 4 times** (while in reverse OR **AUX VID mode: press momentary button**), then press **POWER**.
5. The **OSD Menu** will appear on screen (auto-time out in about 5 seconds if no action occurs).



The only setting most users will need for the AV OSD Menu is located under **'SET'**.

**SET – FRON CAM** must be turned on if adding a *front camera* **and the user wishes for automatic front camera switching**.

Options for 5, 7, 9 or 11 seconds are user selectable for the length of time the front camera input stays active once the vehicle is placed out of reverse (OEM similar).

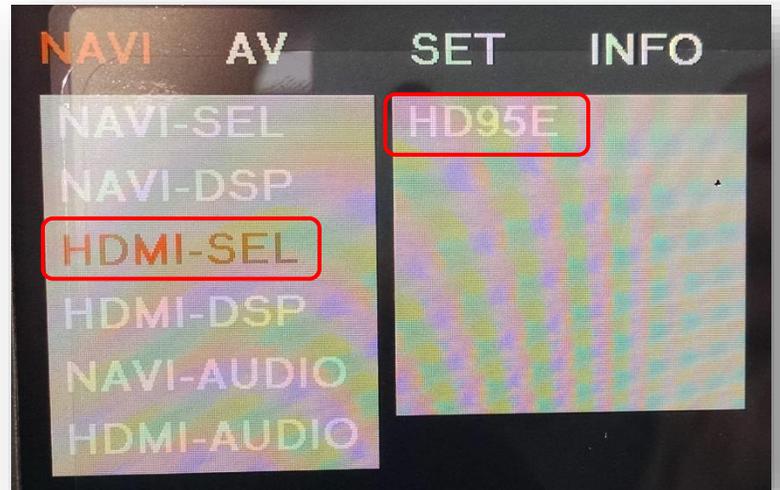
If the user wants only an AUX video input (not front camera), *leave this option 'OFF' and use DIP SWITCH 2* for adding AUX Video input, selectable via the NAV button.

## 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.
2. Activate the 'NAV INPUT' by pressing the 'NAV' button on the dashboard.
3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON 4 times**, 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.
6. 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.



## GVIF-Volvo Operation

- Once all connections have been properly made, placing the vehicle in reverse will show the connected rear camera image with Dynamic Guidelines which correspond with the steering wheel geometry.
- If a front camera was added and **Automatic front-camera switching** was turned on, whenever the vehicle leaves reverse (after showing reverse image once) the connected front camera will display for the user-set amount of time (5, 7, 9 or 11 seconds).
- If no front camera switching is wanted, use the **NAV** button on the dashboard for AUX Video switching. Depending upon active inputs, pressing 'NAV' will switch between AUX Video modes in this order: **(OEM-RGB[NAVI]-AV1-AV2-OEM)** when connected (dip switch dependent).

