

NAV-TV

INTERFACING THE FUTURE

3950 NW 120th Ave, Coral Springs, FL 33065 TEL 561-955-9770 FAX 561-955-9760

www.nav-tv.com info@nav-tv.com

BHM
10/18/18
NTV-DOC327

VOLVO-CAM17

NTV-KIT886



Quick Reference
(LVDS) Video Cable connects at Screen
Power/CAN Harness connects at 12v Socket & OBD
Unit requires ACC 12v
Do not power camera with reverse light. Use ACC or purple wire (through relay)

Overview

The VOLVO-CAM17 kit interfaces 2 video inputs (including a backup camera) to the factory media screen in 2017+ Volvo V90, S90, XC60 & XC90 vehicles with the new, portrait-style monitor. This interface generates steering-based guidelines while in reverse for added convenience.

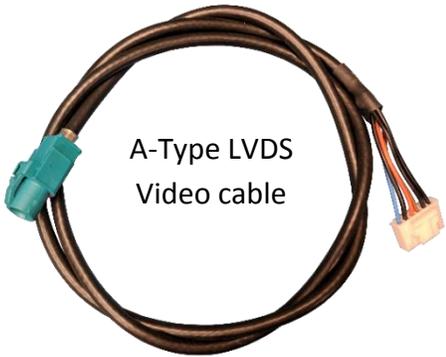
Kit Content



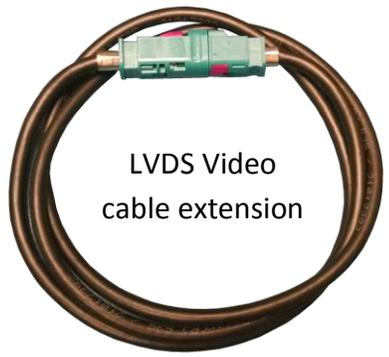
HD-LINK Optional KIT800



VOLVO-CAM17



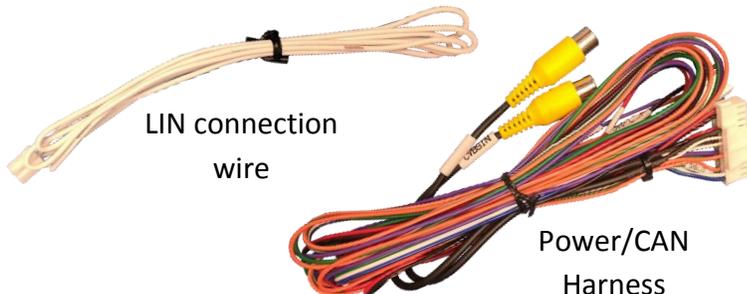
A-Type LVDS Video cable



LVDS Video cable extension



IR Eye Harness
Remote (menu control)



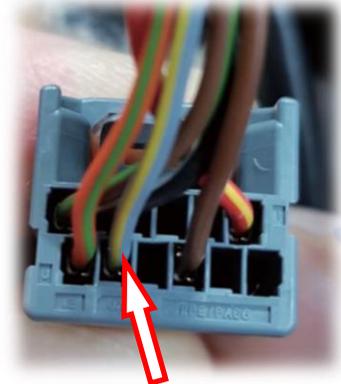
LIN connection wire
Power/CAN Harness

Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.

VOLVO-CAM17 Interface Installation

1. Remove all panels and screws to gain access behind the screen.
2. From the provided **Power/CAN Harness**, connect the following wires to the car:

Interface wire	Description	Volvo Connection
Red (ACC)	12v ACC (+)	Cigar lighter
Black (GND)	Ground (-)	Cigar lighter
White (HAND)	LIN (data)	PIN 11, Gray/Yellow (monitor)
Blue (CAN1-H)	CAN HIGH	White/Green (OBD - extend)
White (CAN1-L)	CAN LOW	Green/Yellow (OBD - extend)



NOTE: Connect the provided white (2-pin, single wire) LIN cable to the 2-pin (black & red) connector off the main harness, if not already connected.



3. Disconnect the OEM LVDS screen cable and connect it to the interface at the port labeled 'LVDS IN'. *NOTE: Use the LVDS extension provided if necessary.*



Back of screen

4. Connect the provided **LVDS Cable** from the interface port labeled 'LVDS OUT' and back to the monitor



Menu Adjustments

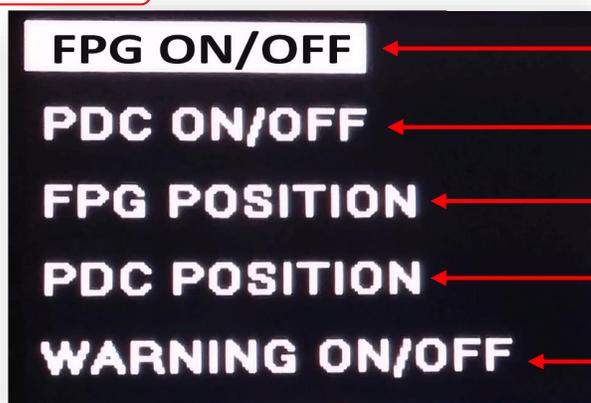
Before you start:

- The IR-Eye must be connected
- Make sure the car's ignition is on and radio is on
- You must be in **Reverse Camera** mode **OR AUX Video** mode (see below):
 - **Reverse Camera Mode** adjusts Reverse Camera Settings
 - **AUX Video Mode** adjusts AUX Video Settings
- Press the **OK BUTTON 4 times** (numbers will display per press), then press **POWER**.
- The **OSD Menu** will appear on screen (auto-time out in about 5 seconds if no action occurs).



Return
(AUX VID
menu
control)

RVC Menu



Functional Parking Guidelines ON/OFF

Parking Distance Control
ON/OFF (while in reverse)

Adjust FPG Position

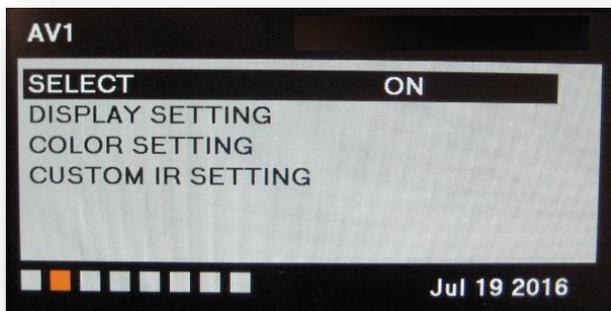
Adjust PDC Position

'Safe to move?' ON/OFF

PDC



AUX VIDEO Menu



If adding a front camera OR Aux Video source:

1. Disconnect POWER/CAN Harness from interface
2. Place DIP SWITCH 1 in the DOWN position, reconnect power
3. Hold the **HOME** (hard) button on the radio to activate 'NAVI' screen
4. Press **OK** button on remote 4 times, then press **POWER**

If the user wants only an AUX video input **without front camera**, set **AV1 SELECT** to **ON**, scroll to the end (right side) of the menu and exit menu.

FRONT CAMERA setting is used when **the user wants 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.

Once finished with settings, place DIP SWITCH 1 back into the **UP position** and reset power to interface (if this step is not taken, the unused 'NAVI' input will show as an additional video input when cycling video inputs)

Adding HD-LINK Adapter (HDMI Input)

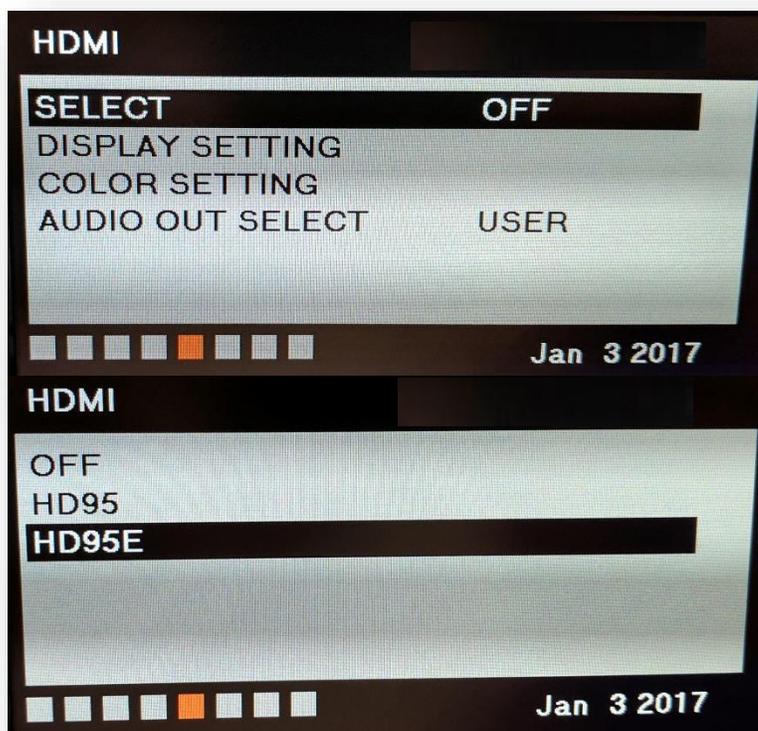
Follow the instructions below when adding the HDMI adapter (HD-LINK) to enable HDMI input to the OEM screen:

1. Put dip switch #1 in the **DOWN** position.
2. Activate the 'NAV INPUT' by holding the 'HOME' button (bottom middle, beneath screen)
3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON 4 times**, then press **POWER**.

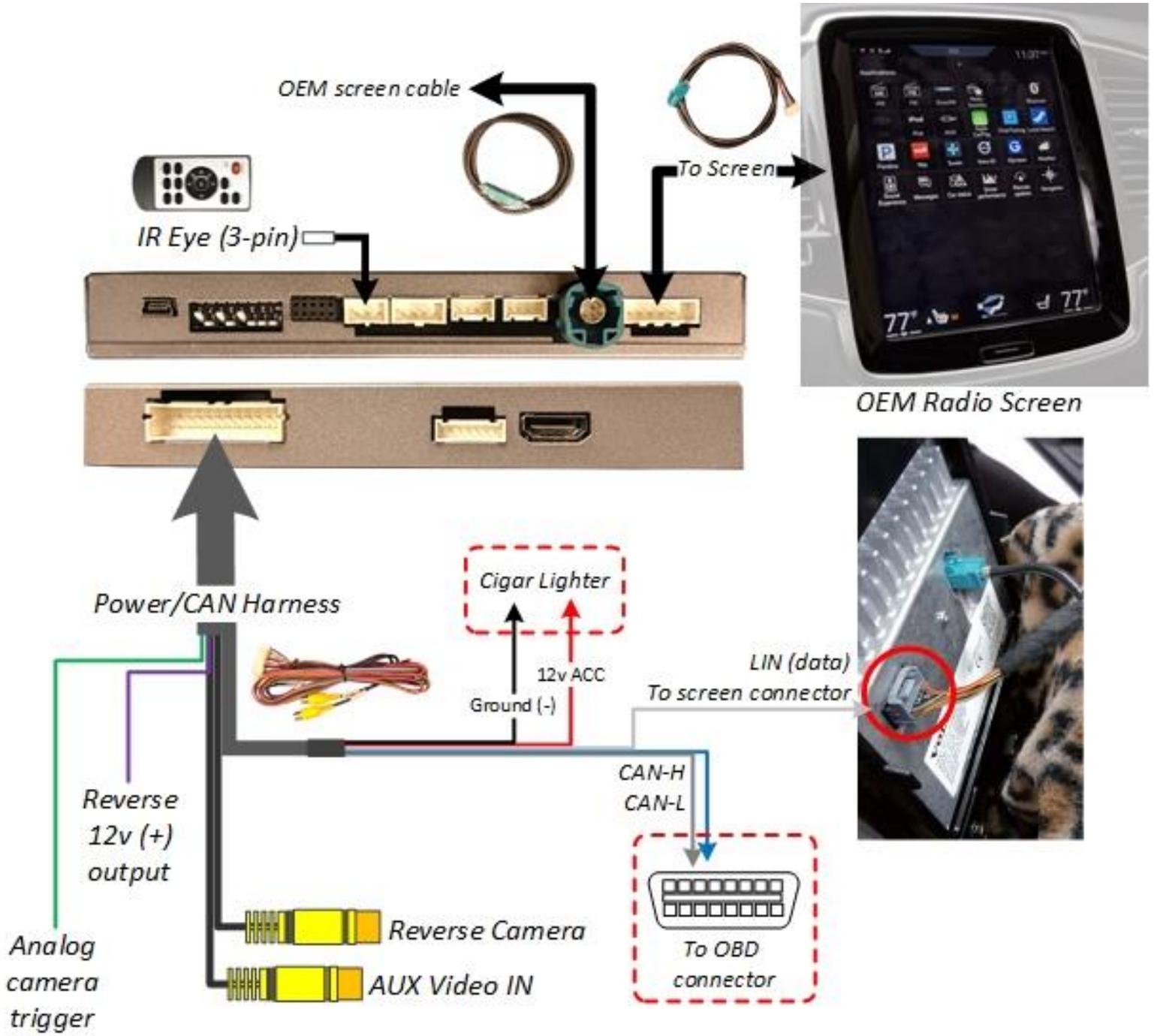
4. Navigate to the 'NAVI' section.
 - a. Select 'HDMI'
 - b. Choose 'HD95E'
 - c. Press **MODE** on the remote to return and exit the OSD menu (or let it time out).



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.



VOLVO-CAM17 Installation Diagram



Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and passenger entertainment only.

VOLVO-CAM17 Operation

- Once all connections are made and dip switches are set properly, placing the vehicle in reverse will display the connected camera with dynamic guidelines for convenience.
- Additionally, see below for AUX/Front camera activation using factory buttons.



Hold (2 sec): Activate
AUX Video/HDMI video
input