

# NAV-TV

INTERFACING THE FUTURE

BHM  
10/17/18  
NTV-DOC322

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## JLR-17+ NTV-KIT880

Quick Reference
(LVDS) Video Cable connects at <b>Radio</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 JLR-17+ Kit interfaces a backup camera input (with active parking lines) and 1 additional video input (front cam, etc) to the factory media screen in 2017+ Range Rover and Jaguar vehicles equipped with **InControl 8"** or **10"** media screens. Installation for Range Rover is performed under the passenger seat, Jaguar vehicles; in the driver's side trunk.

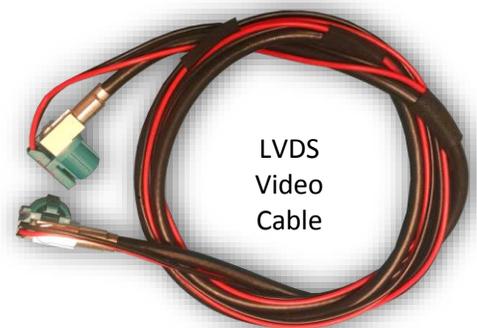
### Kit Content



Vehicle  
Connection  
Harness



JLR-17+ Interface



LVDS  
Video  
Cable



Infrared Receiver



OSD Menu Remote



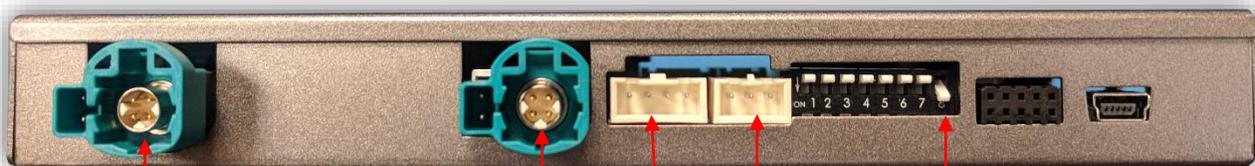
Power/CAN Harness

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.

Interface Connectors



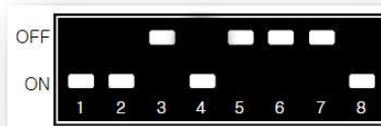
Power/CAN Harness      Expansion Board      RGB Input      HDMI Cable from HD-LINK (optional)      Not Used



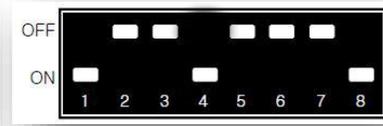
Video OUT (to screen)      Video IN (from radio)      Not Used      IR Eye      Dip Switches

Dip Switch Settings

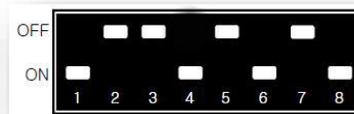
Dip SW:	1	2	3	4	5	6	7	8
UP	NORMAL OP	VEH SETTING	KEEP UP	OEM REAR CAMERA	VEH SETTING	RES SETTING	KEEP UP	KEEP DOWN
DOWN	Enter MENU	VEH SETTING	KEEP UP	ADDING REAR CAMERA	VEH SETTING	RES SETTING	KEEP UP	KEEP DOWN



*Discovery 5, RR Sport,  
Jaguar XF: 10.2"*



*Discovery Sport, RR  
Evoque: 10.2"*



*Jaguar XF, XJL, LR Discovery: 8"*

**Note:** Remove power to the unit prior to making adjustments to the dip switches.

Installation (Jaguar)

- For most Jaguar vehicles, installation is performed entirely at the radio in the trunk (driver’s side). *For some XF models, the radio is located directly beneath the screen – wire colors will be the same, though pin #'s will be different.* Using the provided **Vehicle Connection Harness**, connect the following wires to the **24-pin plug located at the radio**:

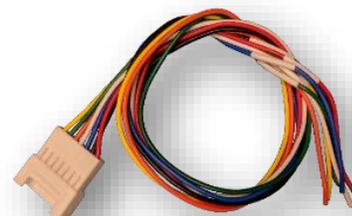


JAG XF radio plug

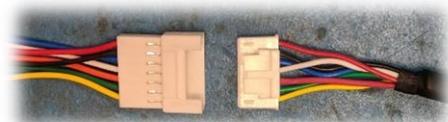


Typical JAG radio tuner

Interface wire	Interface color	Jaguar radio Pin	Jaguar radio color
Ground	Black	1	Black
ACC	Red	3	Yellow
LIN	Yellow	18	Gray/Yellow
CAN 1 HIGH	Blue	17	Violet/Green
CAN 1 LOW	White	16	Gray/Violet
CAN 2 HIGH	Green	---NOT USED---	
CAN 2 LOW	Orange	---NOT USED---	
Reverse	Green	(not required – used for analog camera trigger)	



- Connect the 7-pin pig tail (you just wired to the vehicle) to the main interface Power harness and connect the main provided plug to the port on the interface labeled 'POWER CAN'.



- Disconnect the 6-PIN LVDS cable (white) from the OEM radio and connect it to the port on the interface labeled 'LVDS OUT'.



- Connect the provided **LVDS Cable** from the 'LVDS IN' port on the interface to the (white, now open) port on the Jaguar radio.



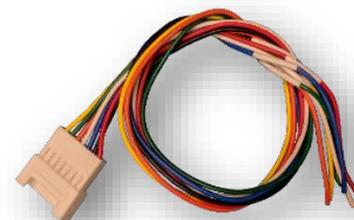
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Installation (Land Rover / Range Rover)

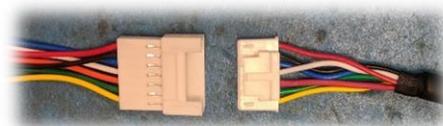
- For Rovers, installation is performed entirely at the radio (beneath passenger seat). Using the provided **Vehicle Connection Harness**, connect the following wires to the **24-pin plug located at the radio**.



Interface wire	Interface color	Jaguar radio Pin	Jaguar radio color
Ground	Black	1	Black
ACC	Red	3	Yellow
LIN	Yellow	18	Gray/Yellow
CAN 1 HIGH	Blue	17	Violet/Green
CAN 1 LOW	White	16	Gray/Violet
CAN 2 HIGH	Green	---NOT USED---	
CAN 2 LOW	Orange	---NOT USED---	
Reverse	Green	(not required – used for analog camera trigger)	



- Connect the 7-pin pig tail (you just wired to the vehicle) to the main interface Power harness and connect the main provided plug to the port on the interface labeled 'POWER CAN'.



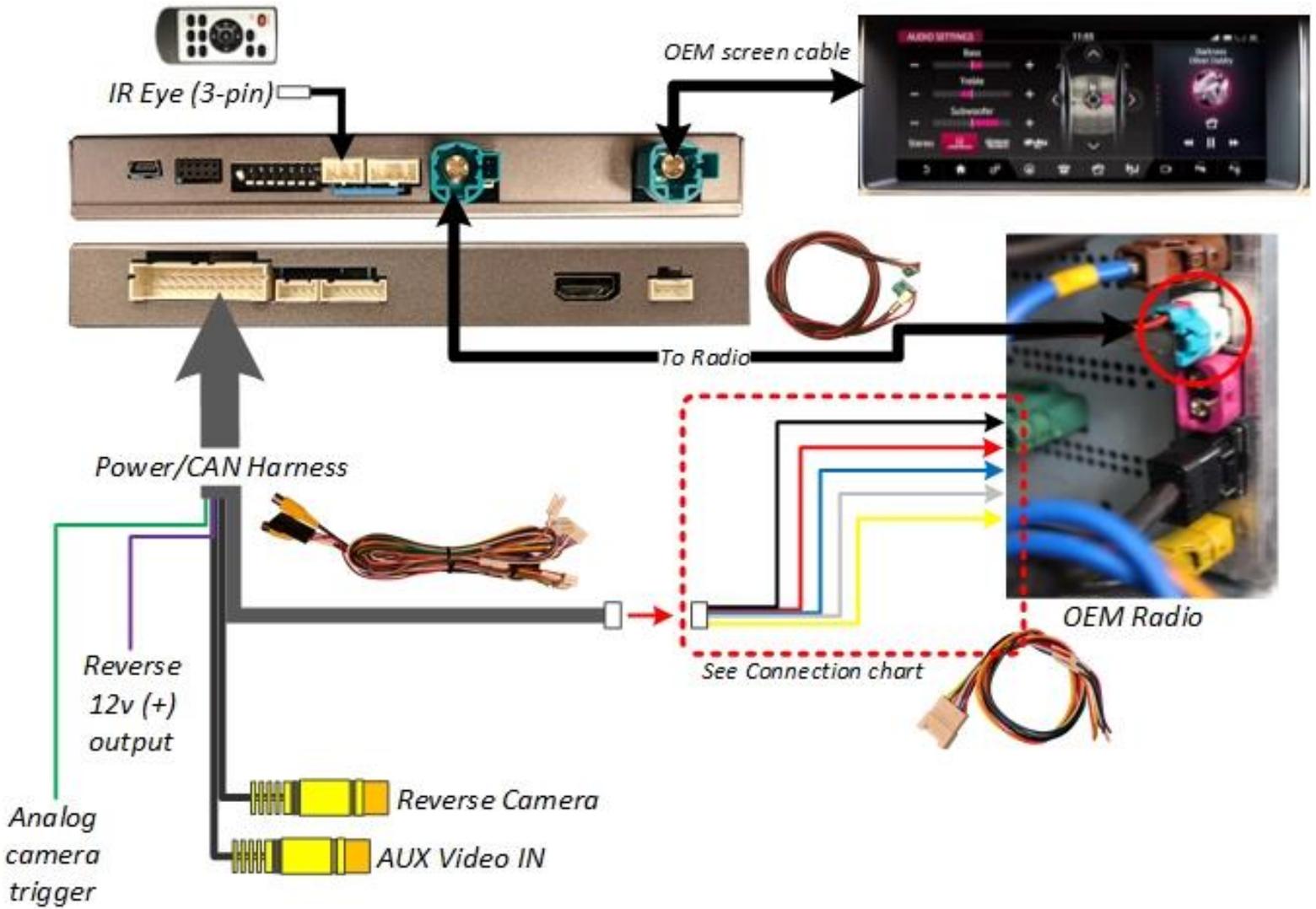
- Disconnect the 6-PIN LVDS cable (white) from the OEM radio and connect it to the port on the interface labeled 'LVDS OUT'.



- Connect the provided **LVDS Cable** from the 'LVDS IN' port on the interface to the (white, now open) port on the Jaguar radio.



JLR-17+ Install Diagram



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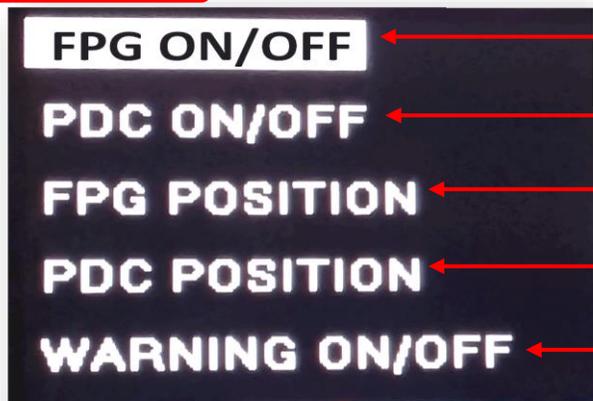
JLR-17+ Menu Adjustments

Before you start:

- The IR-Eye must be connected to the interface
- Make sure the car's ignition is on and radio is on
- You must be in **Reverse Camera** mode.
  - **Reverse Camera Mode** adjusts Reverse Camera 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).



Reverse Menu



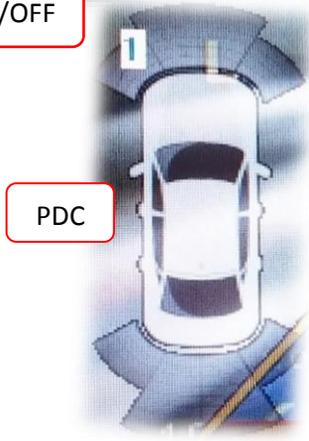
Functional Parking Guidelines ON/OFF

Parking Distance Control ON/OFF (while in reverse)

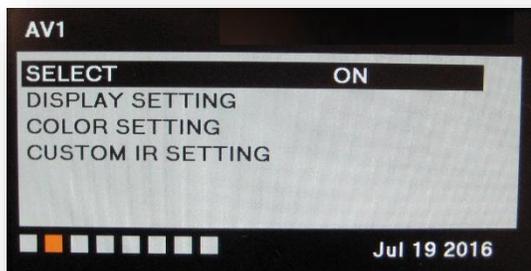
Adjust FPG Position

Adjust PDC Position

'Safe to move?' ON/OFF



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. Press and hold **Voice Control** 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.

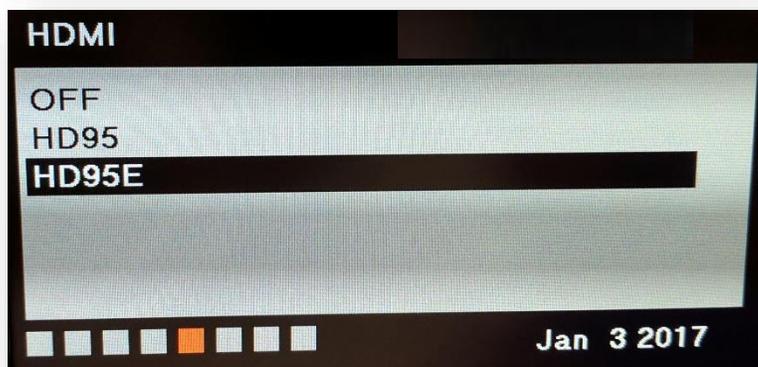
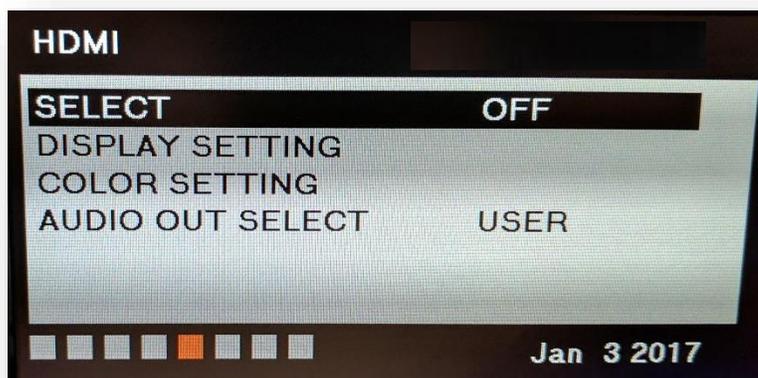
**Once finished with settings**, place DIP SWITCH 1 back into the **UP position** and reset power to interface (if this step is not taken, the unused 'NAVI' input will show as an additional video input when cycling video inputs)

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## 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 **Voice Control** button
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.



### JLR-17+ Operation (Jaguar)

- Once all connections are made, placing the vehicle in reverse will display the connected camera image on the screen.



### JLR-17+ Operation (Land Rover / Range Rover)

- Once all connections are made, placing the vehicle in reverse will display the connected camera image on the screen.

