

NAV-TV

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BHM
10/17/18
NTV-DOC302

BMW-EVO ID6

NTV-KIT837



Screen Connector

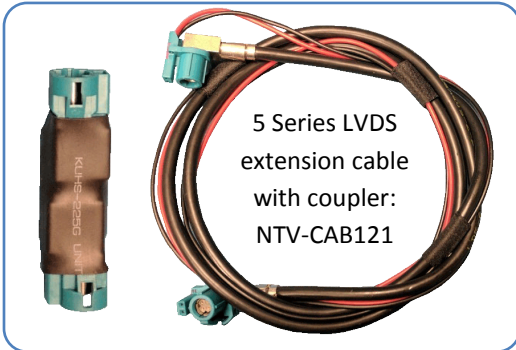


Quick Reference
(LVDS) Video Cable connects at Screen
Power/CAN T-Harness connects at iDRIVE controller
Unit requires Constant 12v
Do not power camera with reverse light. Use ACC or purple wire (through relay)

Overview

The BMW-EVO ID6 kit interfaces 2 video inputs (including a backup camera) to the factory media screen in select 2017 BMWs with the **NEW GUI with or without TOUCH SCREEN**. This interface generates steering-based guidelines while in reverse for added convenience.

Kit Contents

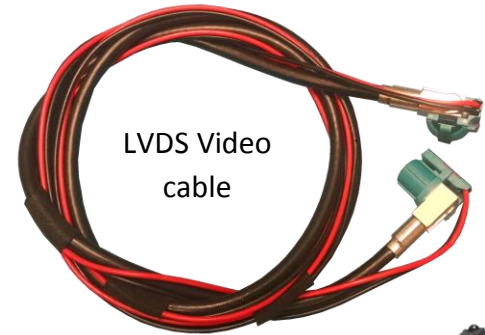


5 Series LVDS extension cable with coupler: NTV-CAB121

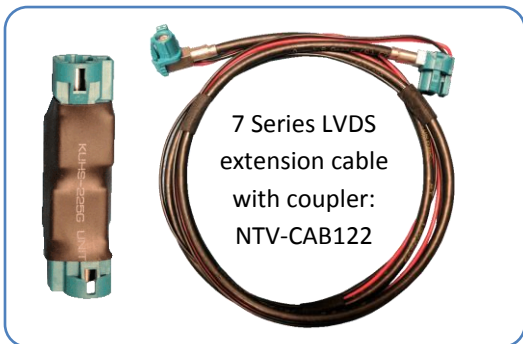
Optional extension cables



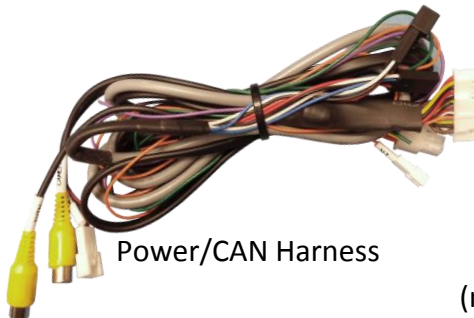
BMW-EVO ID6 Interface



LVDS Video cable



7 Series LVDS extension cable with coupler: NTV-CAB122



Power/CAN Harness



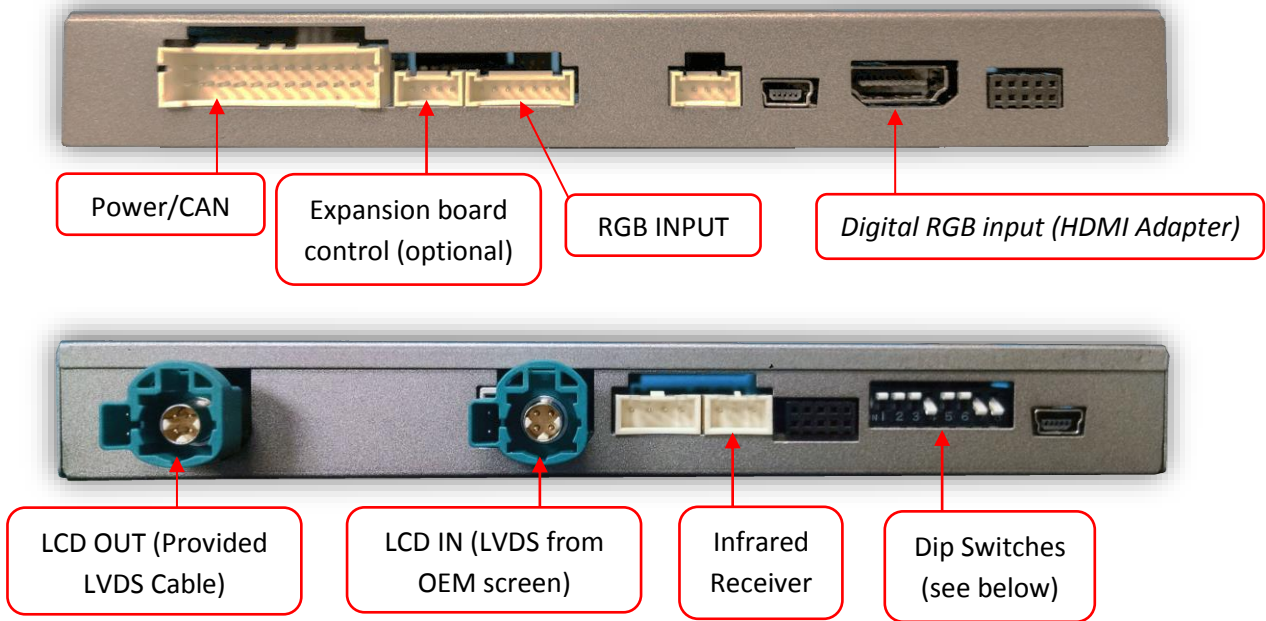
Remote (menu control)



IR Eye Harness

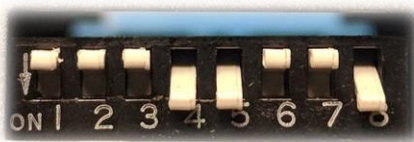
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Interface Connectors

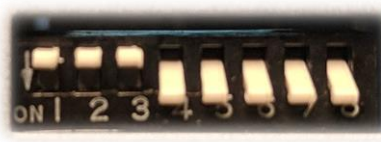


Dip Switch settings*

Dip SW:	1	2	3	4	5	6	7	8
UP	NO NAV	KEEP UP	KEEP UP	RVC OFF	KEEP DOWN	VEH TYPE	10.2" (1440 RES)	KEEP DOWN
DOWN	ADDING NAV	KEEP UP	KEEP UP	RVC ON	KEEP DOWN	VEH TYPE	8.8" (1280 RES)	KEEP DOWN



5, 6, 7, X Series 10.2"
WITH TOUCH SCREEN



5, 6, 7, X Series 8.8"
WITH TOUCH SCREEN



5, 6, 7, X Series 8.8"
WITHOUT TOUCH SCREEN

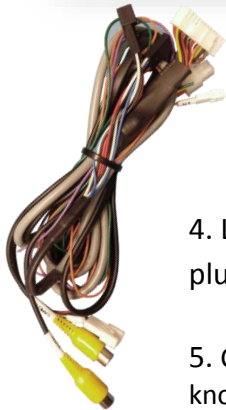


***Note: after adjusting Dip Switches, you must disconnect and reconnect power to the interface or the change will not be implemented.**

BMW-EVO ID6 Interface Installation ('17 X5 example)

The BMW-EVO ID6 intercepts **two OEM plugs in two locations**: the iDRIVE knob and the screen. You must gain access to both places for proper installation.

1. Remove the cluster shroud (clips only).
2. Remove the wooden dash panel (clips only). Disconnect all harnesses attached. Remove the ignition push-button and reconnect to harness for testing (3x T20).



3. Remove the screen by removing (2x) Torx T20 bolts.

4. Lift up the lower dash panel and disconnect 4-PIN plug powering the iDrive knob.

5. Connect provided 4-PIN T-Harness in between iDrive knob and OEM harness as shown below.



6. Replace the lower dash panel (with iDrive knob) back to sub-dash.

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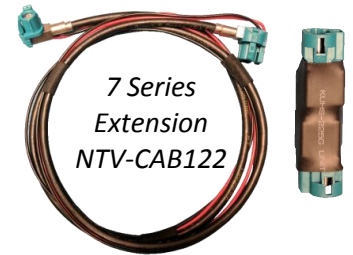
7. Disconnect the OEM screen LVDS video cable and connect it to the port on the module labeled 'LCD-IN'.



NOTE: If purchased (separately), use the LVDS extension cable (with coupler) from the OEM screen cable removed from the screen to the module for convenience.



OR



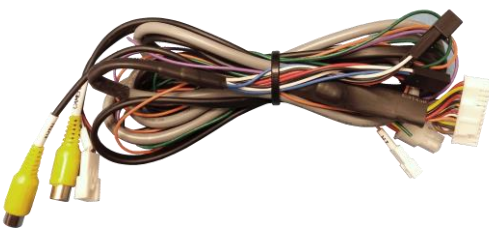
8. Connect the provided LVDS Video Cable to the port on the module labeled 'LCD-OUT' and the other end back to the screen.



9. Install and run the reverse camera video source power and signal to the BMW-EVO ID6 interface location and connect to the RCA labeled 'CAMERA'. Power your camera with an ACC source or use the **violet wire** for reverse 12v (+) only. *NOTE: this wire outputs 500 mA MAX – do not use to supply power to more than 1 camera. Use this wire to trigger a relay if you're concerned with current supply.*

10. **Optional:** If installing a secondary camera or AUX video source, connect signal RCA to the RCA on the BMW-EVO ID6 interface labeled 'AVIN'.

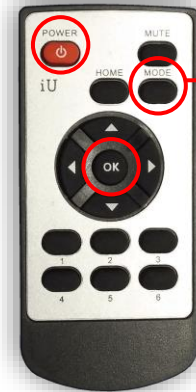
11. After DIP switch settings have been set (see page 2), connect the 24-PIN power connector to the BMW-EVO ID6 interface labeled 'POWER CAN'. Proceed to **Menu Options** section if necessary (front camera settings, etc) or to **BMW-EVO ID6 Operation**.



Menu Adjustments

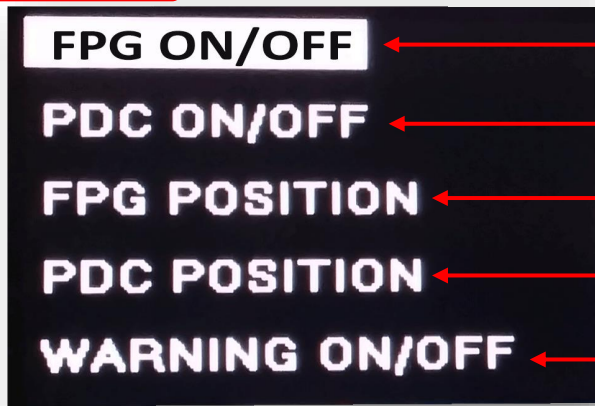
Before you start:

- 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



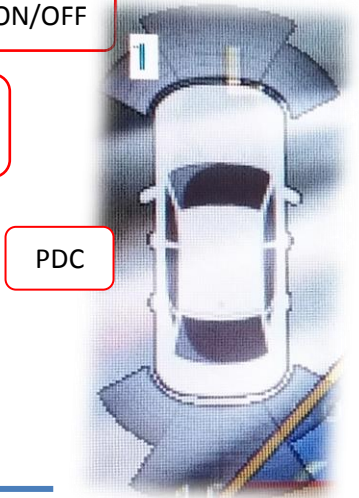
Functional Parking Guidelines ON/OFF

Parking Distance Control
ON/OFF (while in reverse)

Adjust FPG Position

Adjust PDC Position

'Safe to move?' ON/OFF



PDC

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 the iDRIVE knob 'MENU' to activate the AUX screen
4. Press **OK** button on remote 4 times, then press **POWER**

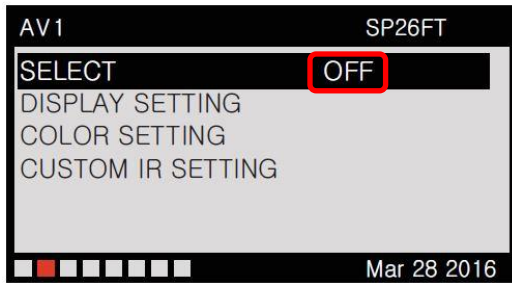
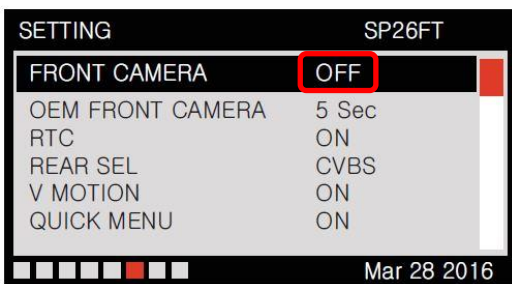
If adding front camera and the user wants it timed (after leaving reverse), use **FRONT CAMERA** to set desired time.

If adding front camera or AUX video (no timer), set **AV1** to **ON** using the arrow keys on the remote (use 'UP' to change OFF to ON)

If adding HDMI Adapter, see next page.

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

AUX
VIDEO
Menu



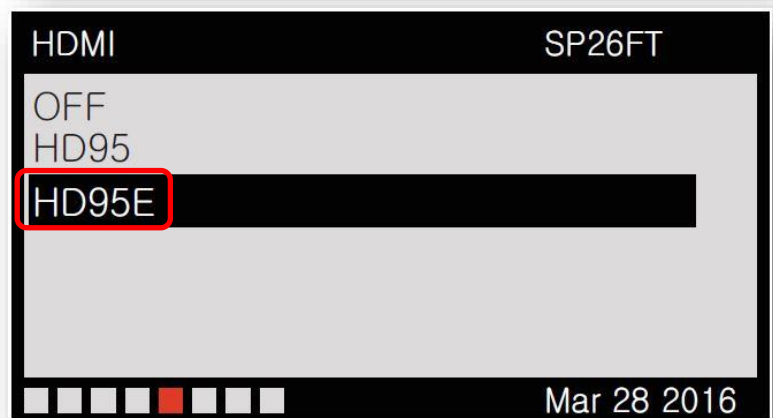
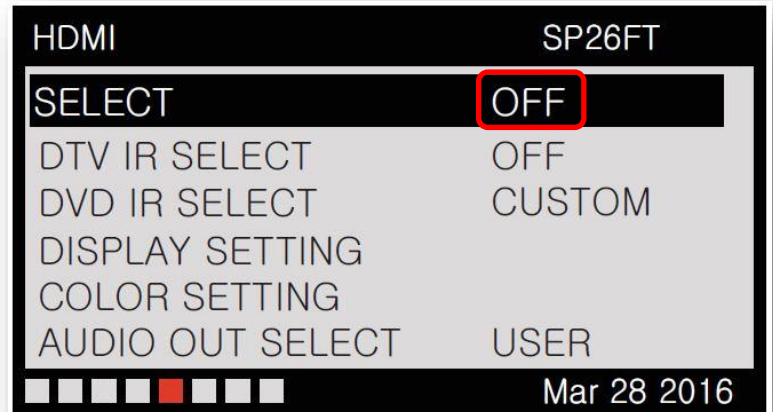
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Adding Optional HD-LINK Adapter (HDMI Input)

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



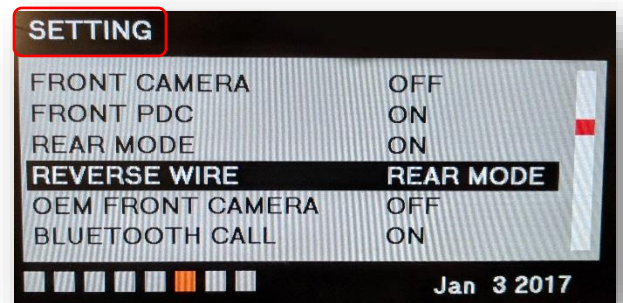
1. Put dip switch #1 in the **DOWN** position.
2. Activate the 'NAV INPUT' by pressing the 'MENU' button (iDRIVE knob)
3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON 4 times**, then press **POWER**.
4. Navigate to the 'HDMI' section.
 - a. Select 'OFF'
 - b. Choose 'HD95E'
 - 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. See page 8 for a connection diagram.



Green Trigger wire setup

This module includes a green *input* wire for analog triggering of either the Reverse camera input or the 'AVIN' input (yellow RCAs), selectable through the AV menu. This allows for adding multiple cameras through the use of an SVS-6 switcher, etc. Follow the steps below adjust this feature. *NOTE: by default, the green wire will trigger the Reverse camera input RCA.*

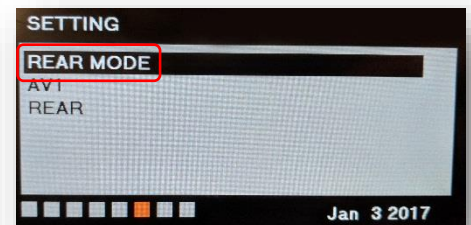
1. Put dip switch #1 in the **DOWN** position. When this section is complete, return switch #1 **UP**.
2. Activate the 'NAV INPUT' by **holding** the 'MENU' button on the iDRIVE knob.
3. Once 'NAV INPUT' shows on the screen, on the remote press the **OK BUTTON 4 times**, then press **POWER**.
4. Navigate to the 'SETTING' section (6 blocks over).
 - Select 'REVERSE WIRE'
 - Choose 'AV1', 'REAR' or 'REAR MODE' (explanations below)
 - Press **POWER** on the remote to return and exit the OSD menu (or let it time out).
 - Test by sending temporary power (12v +) to the **green wire** labeled reverse.



AV1 shows the 'AVIN' RCA when the green reverse wire is triggered.

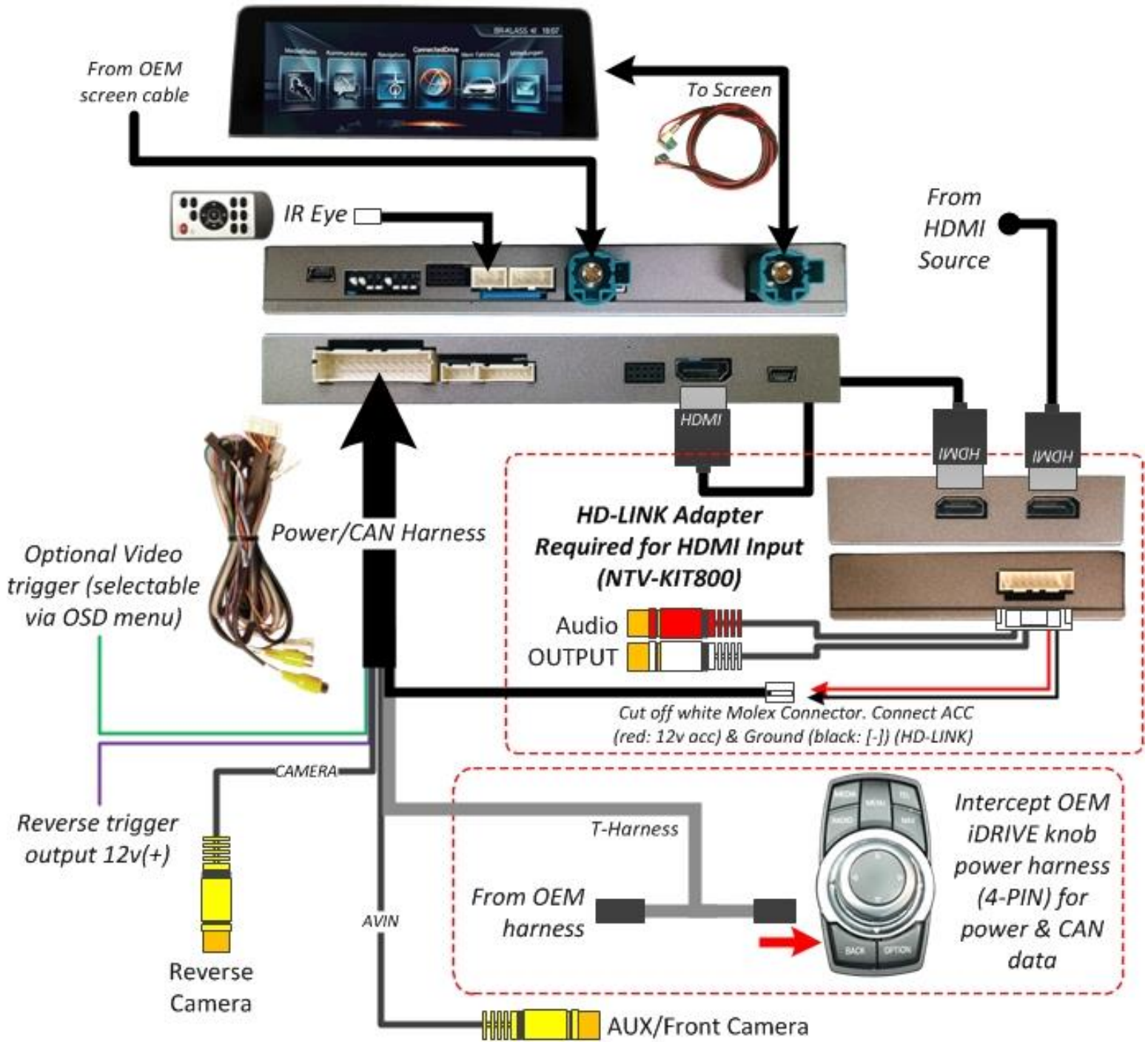


REAR shows the 'CAMERA' RCA (with no lines) when the green reverse wire is triggered.



REAR MODE shows the 'CAMERA' RCA (with dynamic lines) when the green reverse wire is triggered.

BMW-EVO ID6 Installation Diagram



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BMW-EVO ID6 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/HDMI activation using factory buttons.



Hold (3 sec): Activate AUX/Front Camera video input

Hold (3 sec): Change AUX/Front Camera view (60/40 split, etc)

Hold (3 sec) WHEN IN REVERSE: All vehicles: Change Rear Camera view (60/40 split, etc)



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