

# NAV-TV

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

[www.nav-tv.com](http://www.nav-tv.com) [info@nav-tv.com](mailto:info@nav-tv.com)

## W204-H

NTV-KIT794



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

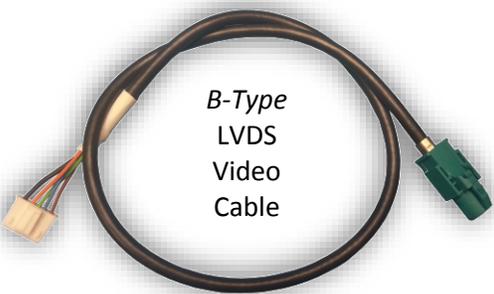
### Overview

The W204-H RVC Kit interfaces two camera inputs and optional HDMI input to the factory media screen in select 2012+ Mercedes vehicles (*HDMI input requires additional adapter*).

### Kit Contents

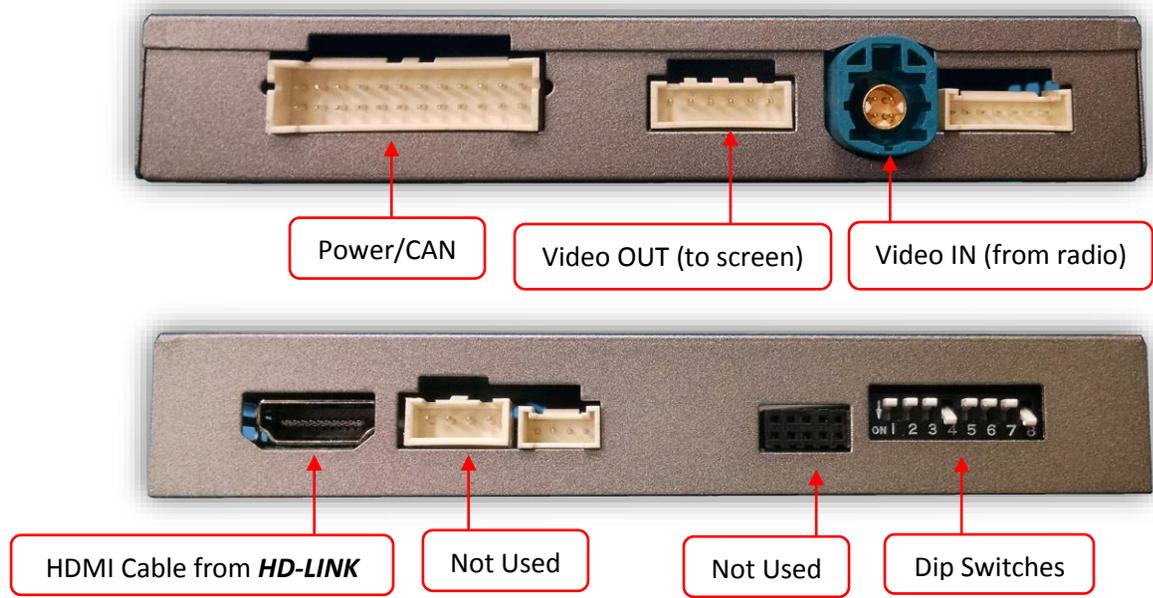


W204-H Interface



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



Dip Switch Settings

DIP SW	1	2	3	4	5	6	7	8
UP	NAV OFF	N/A	N/A	OEM RVC	VEH TYPE	VEH TYPE	HIGH RES	KEEP DOWN
DOWN	ADDING NAV	N/A	N/A	ADDING RVC	VEH TYPE	VEH TYPE	LOW RES	KEEP DOWN



**C-Class with 5.8" Screen**



**E-Class, C-Class, SLK with 7" Screen**



**B-Class, ML with 7" Screen**



**B-Class, A-Class with 5.8" Screen**



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

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## W204-H Installation

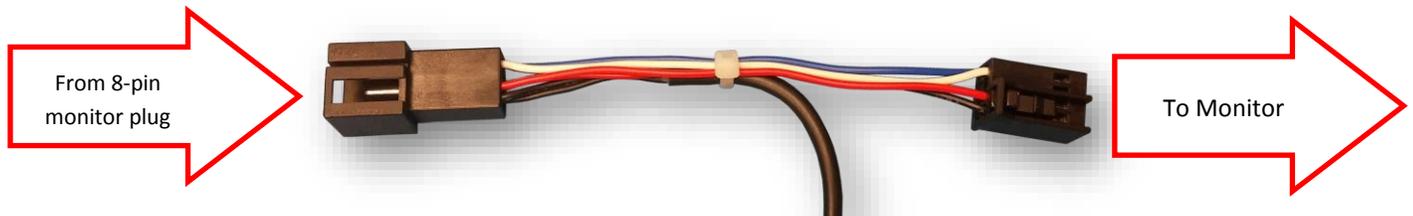
1. Remove the radio. This may require the Mercedes hook tool for removing vents on some vehicles, others may just be clips and screws securing down dash panels. Remove all harnesses and set the radio aside.
2. Remove the factory screen. Disconnect all associated harnesses and set the screen aside.
3. Behind the screen, connect the OEM 4-pin, LVDS video cable previously removed from the factory monitor and connect it to the green port on the W204-H interface. *NOTE: if required, use the provided LVDS Extension cable for ease of install.*



4. Connect the *provided* LVDS Video cable to the OEM monitor (green plug). Connect the other (white) end of this cable to the W204-N interface here:

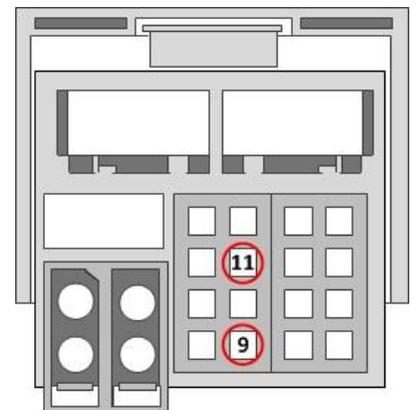


5. Connect the provided Plug & Play T-Harness (CAN/Power) to the screen, from the blue connector (previously connected to the screen).



**NOTE:** You may have to shave the keyway of the OEM connector to fit it into the female side of this connector for some vehicles.

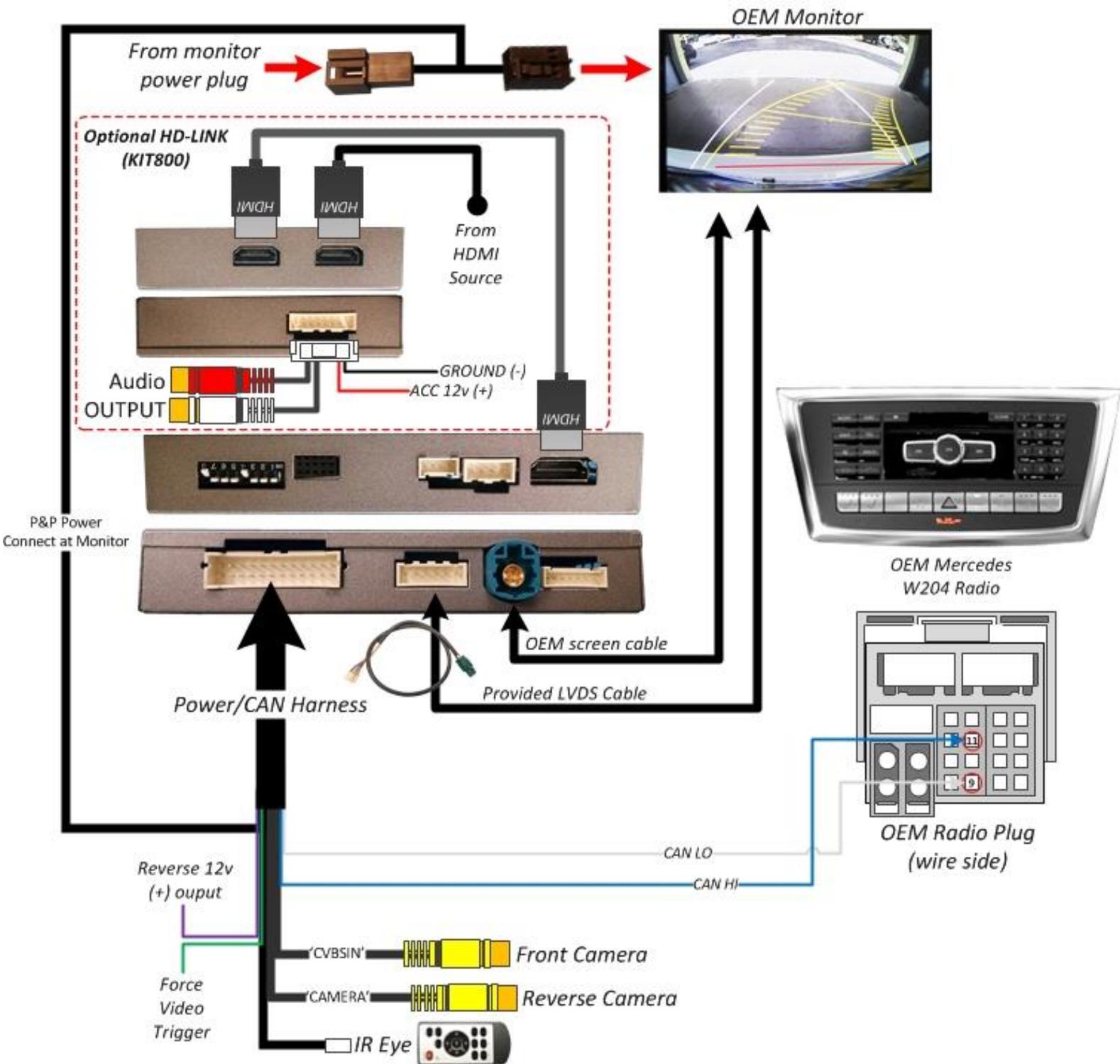
6. Locate this plug among the provided main power harness. **CUT** the 2-pin black plug off of these wires, and run down the dash to the OEM main radio connector. Solder the **Blue wire** to **PIN 11 (CAN HIGH)**. Solder the **White wire** to **PIN 9 (CAN LOW)**.



**Wire side**

7. Connect the white, 10-pin POWER/CAN plug to the W204-H interface at the port labeled 'POWER/CAN'.
8. Install and run your reverse camera's power, ground & signal up to the radio/W204-H Interface location. Connect the signal RCA to the provided RCA end labeled 'CAMERA'.
9. Find a solid ground wire (radio's ground) and an ACC 12v (+) source to power your camera. Alternatively, you may use the provided **purple wire** for **reverse 12v (+)** power only.
10. **Optional:** If adding an additional video input (including front camera), use the provided RCA labeled 'CVBS IN' for signal input. This video source *must* be powered with an ACC source. *NOTE: If the user desires for automatic front camera-switching, this option must be set upon installation. See MENU Settings on page 7.*

W204-H Install Diagram

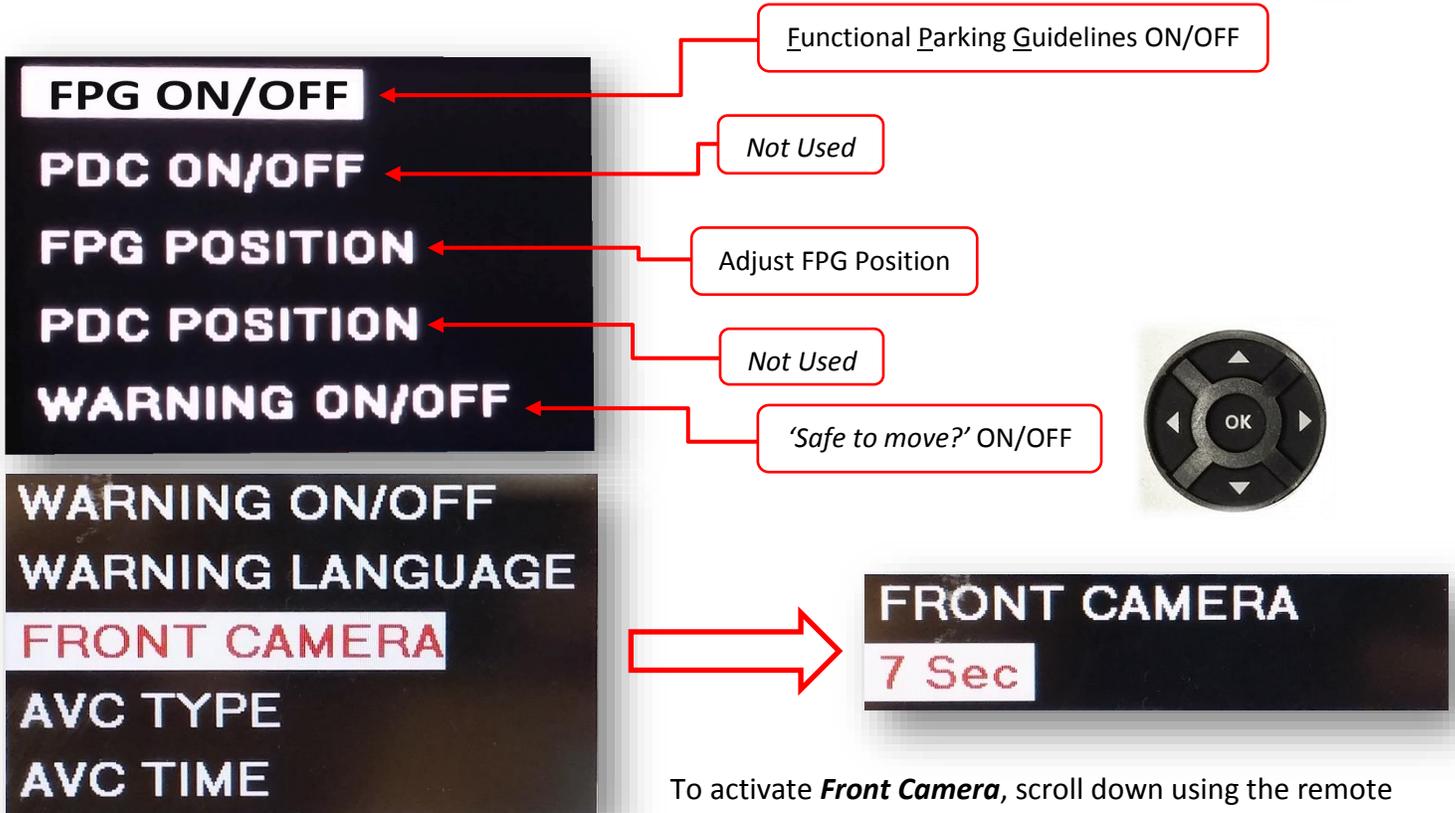


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## Menu Adjustments

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 or AUX** mode
- 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).



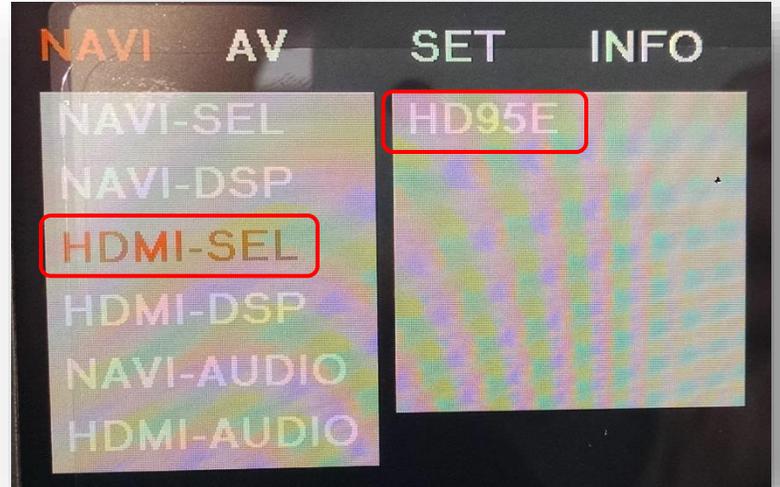
To activate **Front Camera**, scroll down using the remote arrow keys when in the menu to **FRONT CAMERA**. Once in this setting, press OK and choose (up/down) between 5, 7, 9 or 11 seconds for **auto-front switching timeout** (once the vehicle leaves reverse gear, the front camera input will stay active for pre-defined amount of time).

## Adding HD-LINK Adapter (HDMI Input)

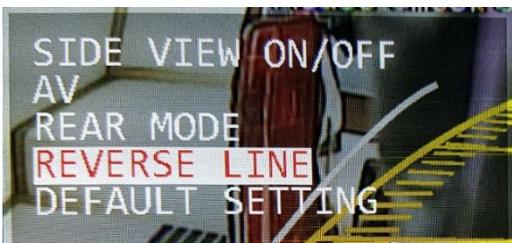
Follow the instructions below when adding the HDMI adapter (HD-LINK) to enable HDMI input to the OEM screen:



1. Put dip switch #1 in the **DOWN** position.
2. Activate the 'NAV INPUT' by holding the **BACK** button on the steering wheel.
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.



## Adjusting green camera trigger wire



To set custom **green wire trigger**, find 'REVERSE LINE' option and set to 'REAR PORT' or 'AV1' depending upon your preference. Every time the green wire receives 12v (+), the selected RCA port will display on screen.

### W204-H Operation

- **Once the W204-H is connected properly, reverse activation is automatic. Placing the vehicle in reverse will display the connected camera's image automatically.**

*Note: If display doesn't switch to reverse image when shifting into reverse or screen is distorted, check dip switch settings on page 2.*

*Note: If all dip switch settings have been tried, connect the provided 'Reverse Trigger Input' wire (green) and supply this wire with an OEM reverse 12v (+) signal.*



- Press and hold the **back arrow** on the steering wheel to cycle the screen from OEM image, to HDMI (if adapter was added), to connected front camera (if no change, try check Dip Switches 1 & 2 and your menu settings). Otherwise, the front camera will display (whenever you leave the *reverse gear*) for the user-set amount of time (5, 7, 9 seconds, etc).

