

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

W205v2

NTV-KIT888



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

Overview

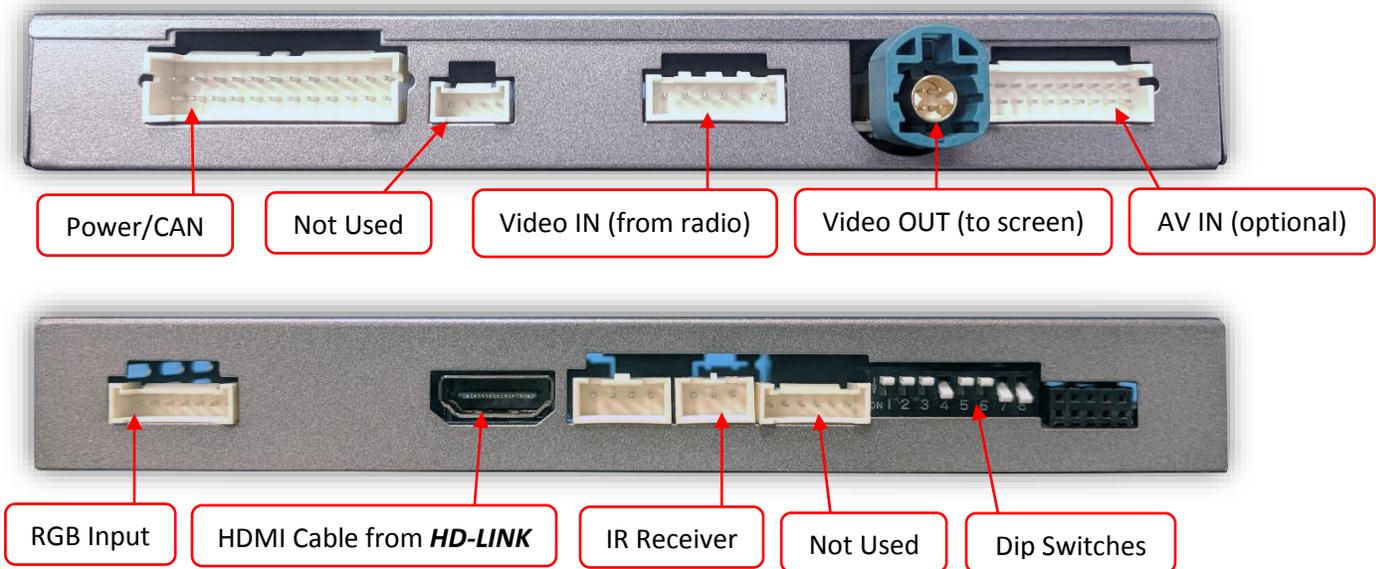
The W205v2 Kit interfaces a backup camera input (with active parking lines) and 1 front camera to the factory media screen in select 2014+ Mercedes vehicles equipped with *NTG5.0+* infotainment system. With an additional adapter (NTV-KIT800), this kit will also introduce an HDMI input to the OEM screen.

Kit Contents



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.

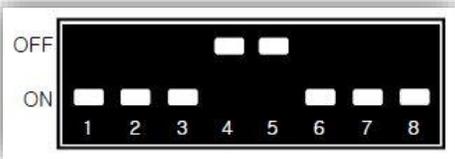
Interface Connectors



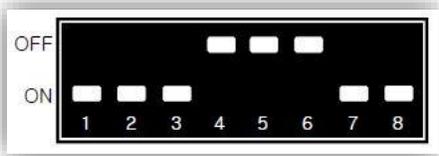
Dip Switch Settings

DIP SW	1	2	3	4	5	6	7	8
UP	MENU OFF	VEH SET	VEH SET	RVC OFF	VEH SET	VEH SET	VEH SET	KEEP DOWN
DOWN	MENU ON	VEH SET	VEH SET	RVC ON	VEH SET	VEH SET	VEH SET	KEEP DOWN

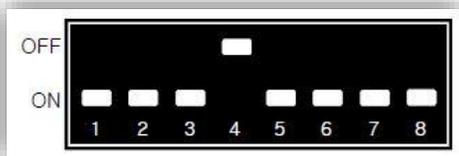
NOTE: Remove power to the unit prior to making adjustments to the dip switches.
NOTE: DIP SWITCH 4 must be DOWN when adding aftermarket rear camera.



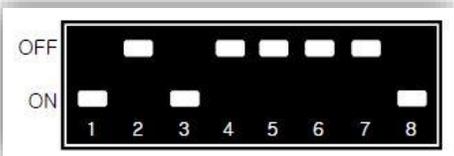
C-Class with 7" Screen



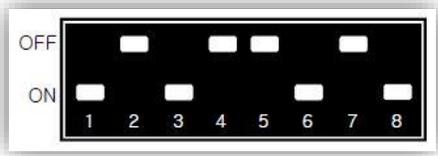
C-Class, GLC with 8.4" Screen



**2015 CLS, CLA, GLA,
GLE, B & E-Class**



S-Class with 12.3" Screen



**S-Class with 12.3" Screen
(German Import)**

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.

Dash Removal ('15 C-Class)

1. Use a plastic tool to remove the silver trim behind the COMAND touchpad controller. You will have to open the center console and press the arm rest locks forwards for clearance:



2. Remove (2x) Torx 20 screws hidden beneath the silver trim piece in step 1:



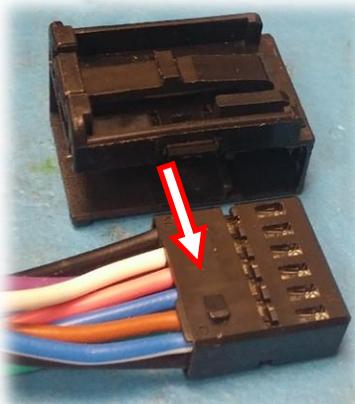
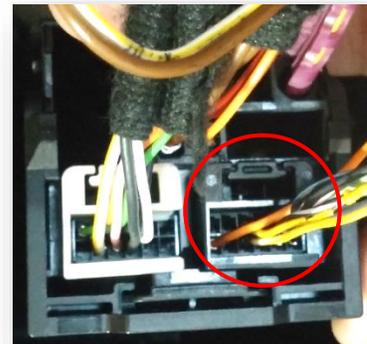
3. Lift up the entire dash panel to just beneath the screen and disconnect all (6) plugs. Set the dash panel aside in a safe place.
4. Unscrew (2x) Torx 20 screws securing the radio to the sub dash. These screws are not designed to be removed from the radio clamps.

5. Remove the radio by pulling it towards you.



Installation

1. With the radio removed, disconnect all harnesses and set the radio aside.
2. In the main square radio plug, locate the 12-pin black plug and remove it (press clip on top and pull).
3. Separate the outer shell from this OEM connector and insert the provided 12-pin plug in its place (this connector only connects properly in one direction).



OEM 12-pin
& outer shell



OEM 12-PIN Harness



Provided 12-PIN plug & play



OEM 12-pin
outer shell

NOTE: if you
insert this
connector upside
down, picture
will not display
at the monitor.

4. Connect the OEM 12-pin to the female end of the plug & play portion of the harness from step 3. Connect the new harness assembly back into the Main OEM Radio connector like shown.



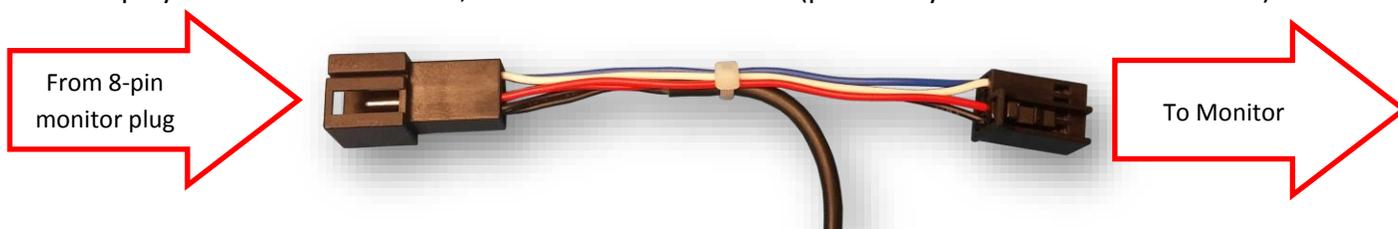
Main OEM
Radio Connector

5. Remove the screen from the dashboard. The following instructions are for the 2015 C-Class, other vehicles may be similar.

- a. Using a plastic pry tool, pry up the speaker grill above the monitor on the top dash.
- b. There are (2x) Torx T20 screws that secure the monitor to the dash (firing downwards). Remove these and the monitor assembly will pull straight out (you may need a magnet to prevent the screws from falling into the dash).



6. Disconnect all harnesses from the monitor and set it aside. Similar to step 4, connect the (power) plug & play harness 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.

7. Locate the OEM, typically **Dark Blue**, 4-pin round connector (LVDS) that was removed from the radio in step 1 from the port on the radio typically labeled '**DISP**'. Connect this factory plug to the W205v2 interface at the port labeled '**VIDEO OUT**'.



NOTE: If there is no dark blue LVDS video plug present, use the cable that (when removed) makes the OEM screen disappear (while radio is on).

8. Connect one end of the provided **LVDS Video Cable** to the port on the W205v2 interface labeled 'VIDEO-IN'.



9. Connect the other end of the provided **LVDS Video Cable** back to the factory radio at the 'DISP' (typically dark blue) port.

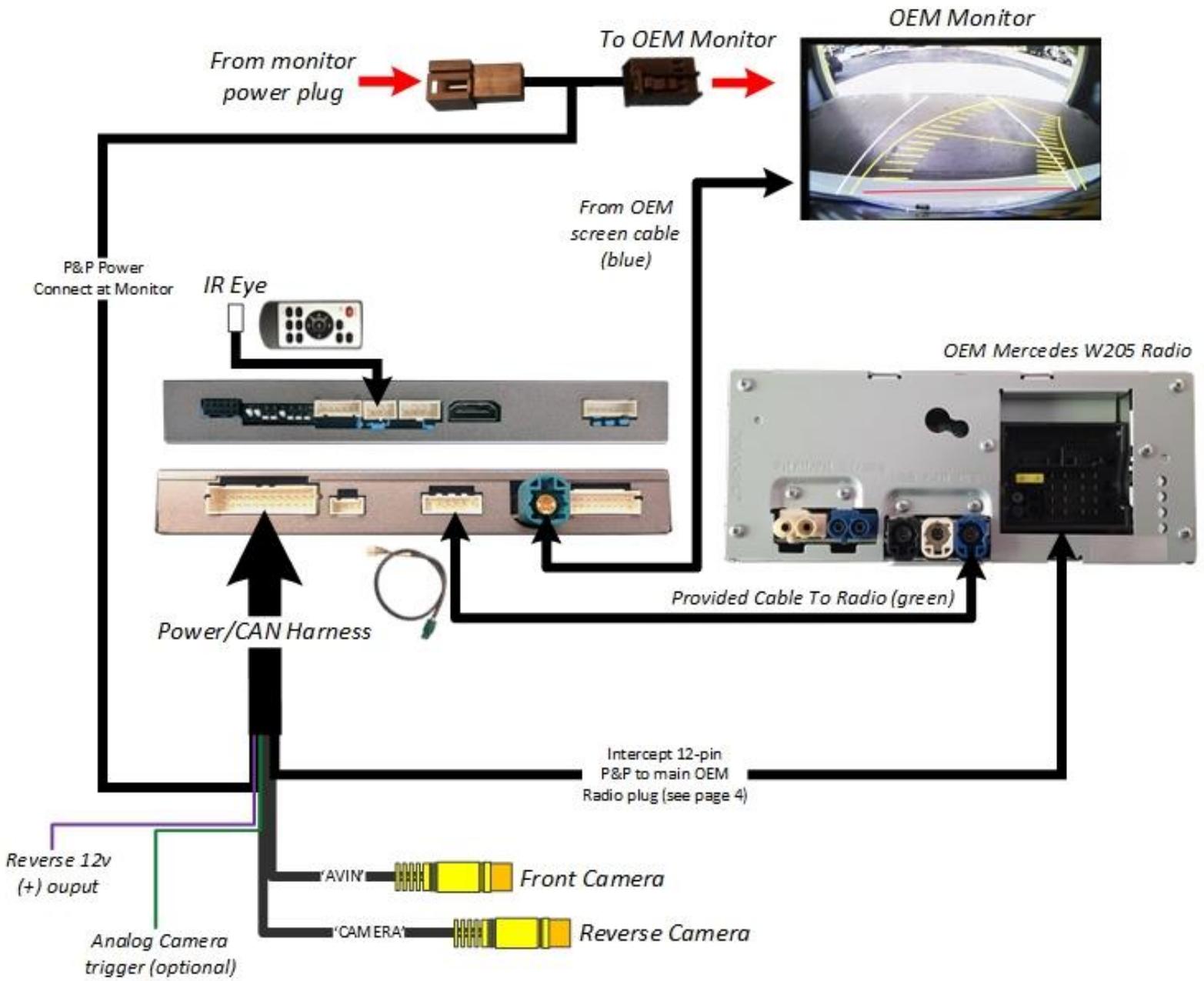


10. Power your reverse camera with an accessory 12v source, or use the **purple wire** for **reverse 12v only**. Splice ground (-) to the black wire provided to the interface, or find another ground point/wire in the car.
11. Connect signal from the rear camera to the RCA labeled 'CAMERA' among the main Power/CAN harness.
12. Connect the white plug from the Power/CAN Harness to the port on the W205V2 RVC interface labeled 'POWER/CAN'.
13. **Optional:** If adding an additional video input (including front camera), use the provided RCA labeled 'AV 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 8.*
14. Start the car and test for proper functionality before replacing any dash pieces.

NOTE: *If after verifying DIP Switches and you still don't get reverse activation (screen switching to cam-image while in reverse), re-test with ALL dash-board pieces connected properly.*

NOTE: *If (the above) was tried and the screen will still not switch, providing the **green wire** among the main power harness with a (+) reverse signal will switch the screen manually.*

W205v2 RVC Install 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.

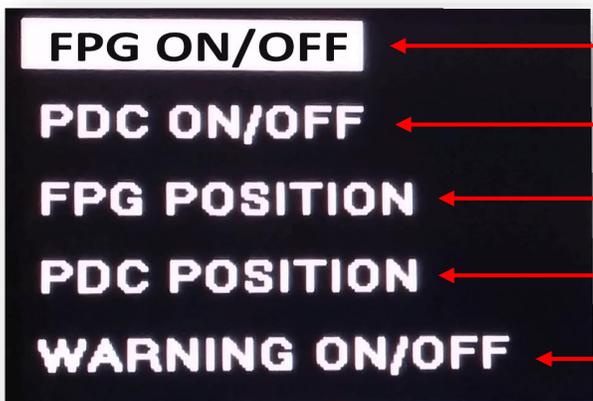
Setting/Navigating OSD Menu

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).



RVC Menu



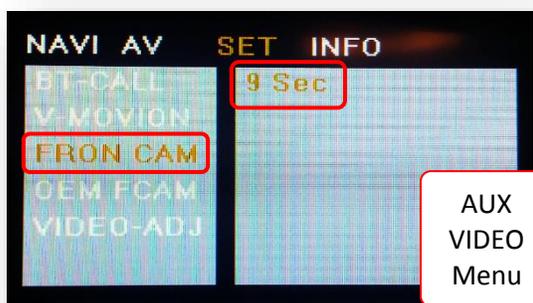
Functional Parking Guidelines ON/OFF

Parking Distance Control ON/OFF (while in reverse)

Adjust FPG Position

Adjust PDC Position

'Safe to move?' ON/OFF



If adding an AUX video or HDMI source:

1. Disconnect POWER/CAN Harness from interface
2. Place DIP SWITCH 1 in the DOWN position, reconnect power
3. Press and hold the **BACK arrow or press the NAVI** button on the dash to activate 'NAV input'
4. Press **OK** button on remote 4 times, then press **POWER**



SET – FRON CAM: Front camera timer option setting (5, 7, 9 seconds etc). This shows after leaving reverse gear. If the user wants only an AUX video input **without front camera (or front cam without timer)**, leave these options OFF and use DIP SWITCH 2 instead.

AV1-SEL: Set to 'HD95E' if adding the HD-LINK adapter for HDMI Input.

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

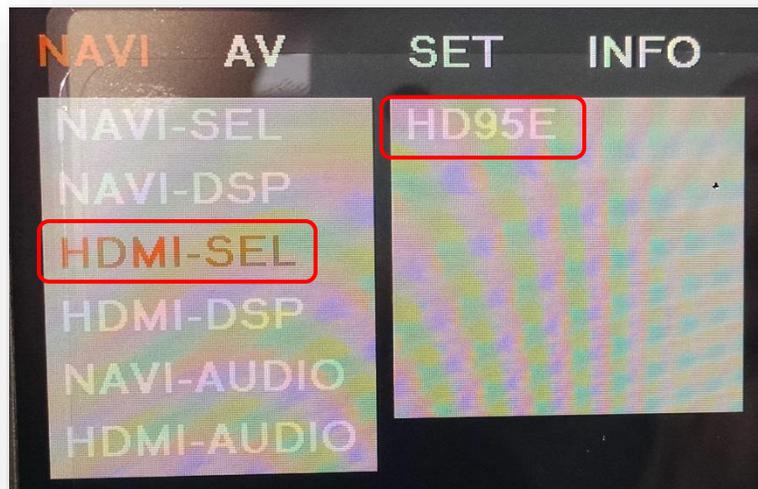
Agreement: End user agrees to use this product in compliance with all State and Federal laws. NAV-TV Corp. would not be held liable for misuse of its product. If you do not agree, please discontinue use immediately and return product to place of purchase. This product is intended for off-road use and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

Adding HD-LINK Adapter (HDMI Input)

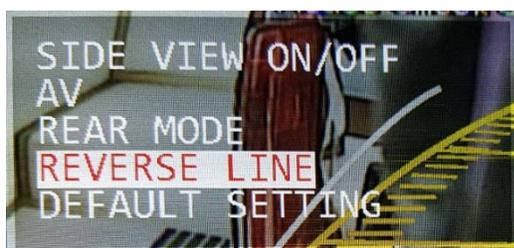
Follow the instructions below when adding the HDMI adapter (HD-LINK) to enable HDMI input to the OEM screen:



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



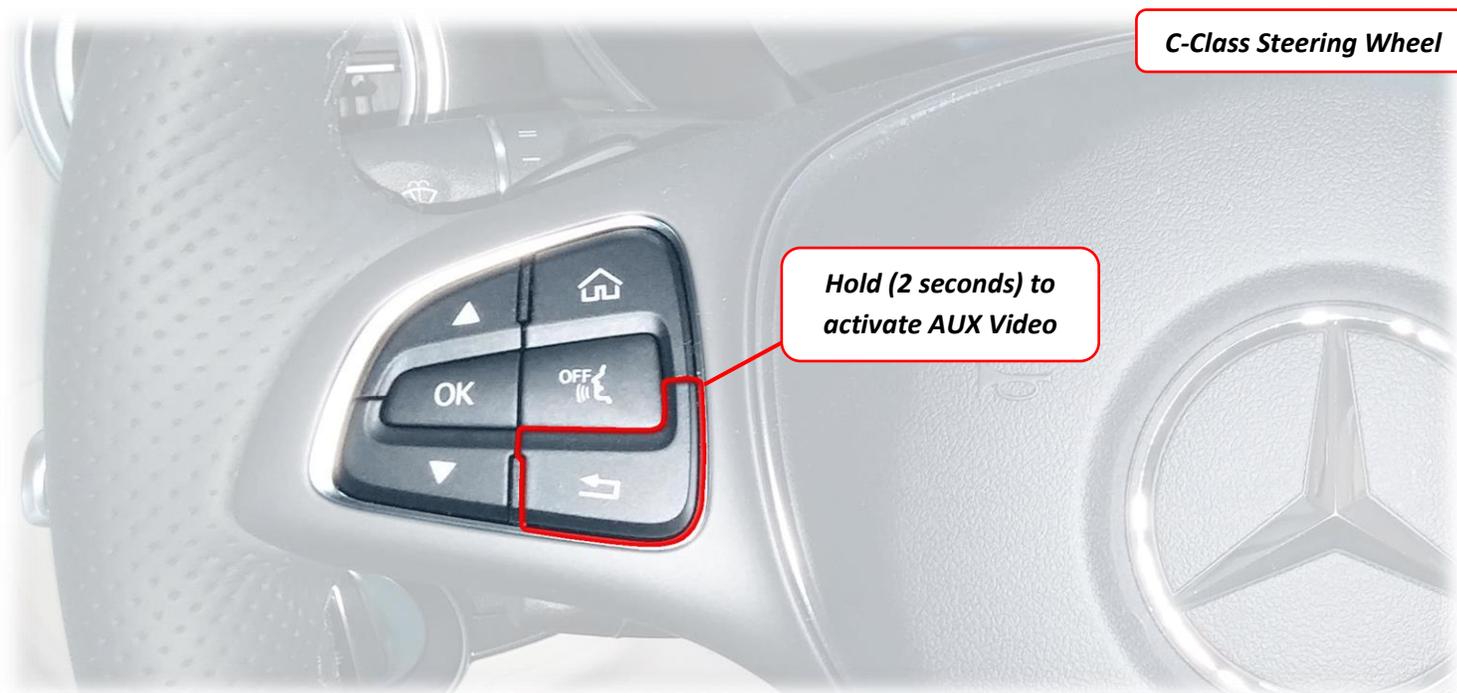
To set custom **green wire trigger**, find 'REVERSE LINE' option and set to 'REAR PORT' or 'AV1' depending upon your preference. Every time the green wire receives 12v (+), the selected RCA port will display on screen.

W205v2 Operation

- **Once the W205v2 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, check dip switch settings on page 2.

- **For displaying the AUX video (front camera or HDMI input, if HD-LINK was added) at any time, hold the BACK-arrow button OR press the NAVI button on the radio to cycle through inputs. If front camera timer was set, the front camera will display for as long as the setting was programmed (5,7,9 seconds, etc) once you leave Reverse gear.**



CLS Comand knob



C Class Radio



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.