

# NAV-TV

INTERFACING THE FUTURE

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## W205-N RVC

NTV-KIT703



### Overview

The W205-N RVC Kit interfaces a backup camera input (with active parking lines) and 1 front camera to the factory media screen in select 2015 Mercedes vehicles with the *new* infotainment system.

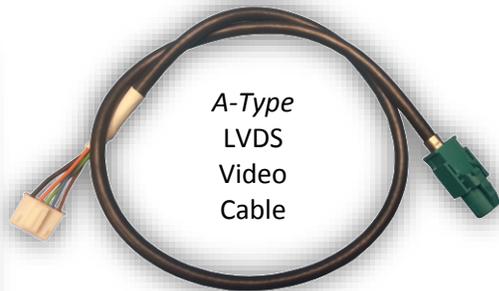
### Kit Contents



OSD Menu remote



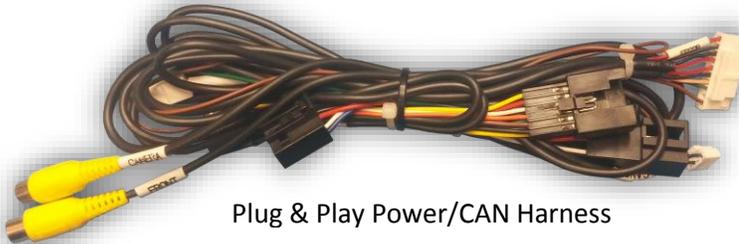
W205-N RVC Interface



A-Type  
LVDS  
Video  
Cable



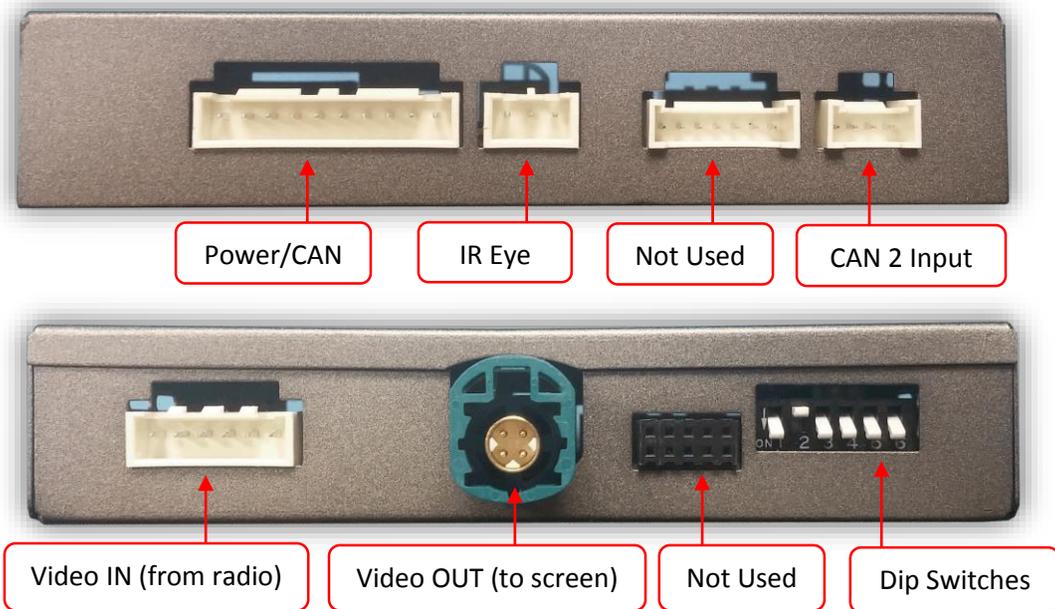
IR Eye



Plug & Play Power/CAN Harness

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Interface Connectors



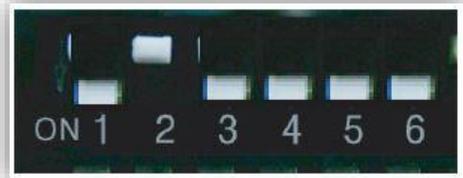
Dip Switch Settings



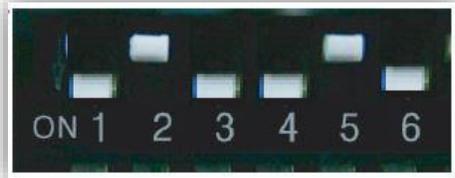
*Keep Together*

DIP SW	1	2	3	4	5	6
UP	KEEP DOWN	KEEP UP	Existing OEM Rearview Camera		RES TYPE 1	VEH TYPE
DOWN	KEEP DOWN	KEEP UP	ADDING aftermarket Rearview Camera		RES TYPE 2	VEH TYPE

*Must be DOWN for OSD Menu Access*



**C-Class with 7" Screen**



**C-Class with 8.4" Screen**



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

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

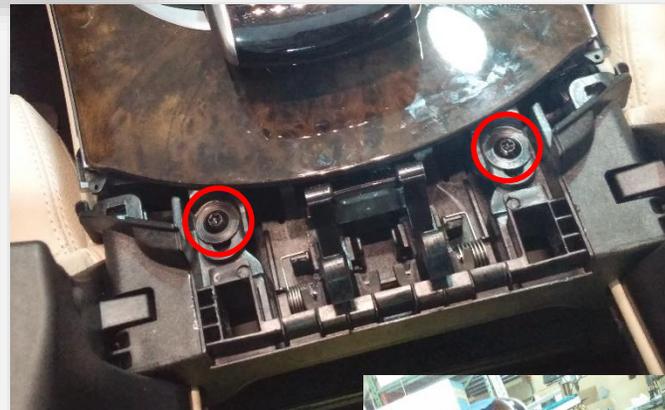
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Dash Removal ('15 C-Class)

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.

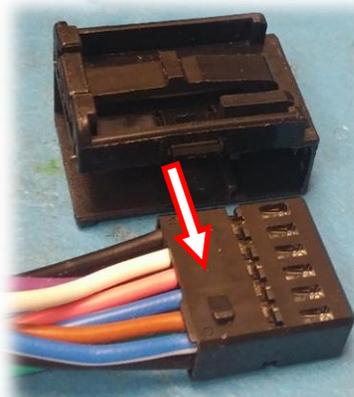
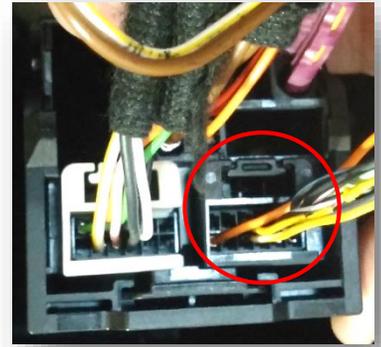


5. Remove the radio by pulling it towards you.



## 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



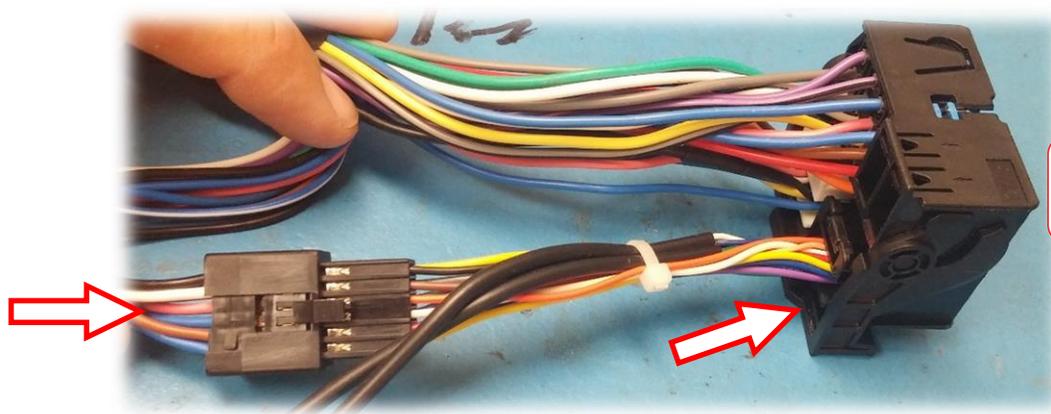
Provided 12-PIN plug & play



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.

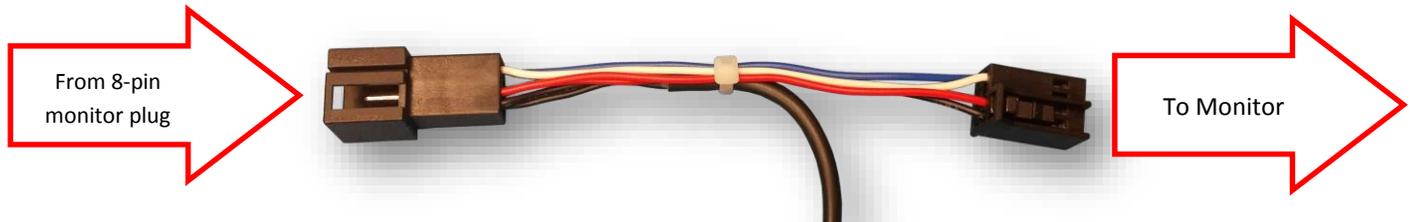


Main OEM  
Radio Connector

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). Unscrew these (they may not remove) and the monitor assembly will pull straight out.



6. Disconnect all harnesses from the monitor and set it aside. Similarly to step 3 & 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 labeled '**DISP**'. Connect this factory plug to the W205-N RVC interface at the port labeled '**VIDEO OUT**'.



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

8. Connect the white plug side of the provided **LVDS Video Cable** to the port on the W205-N RVC interface labeled 'VIDEO-IN'.



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



10. Connect the small white 4-pin plug labeled 'CAN2' to the plug on the W205-N interface labeled 'CAN2' for proper operation.

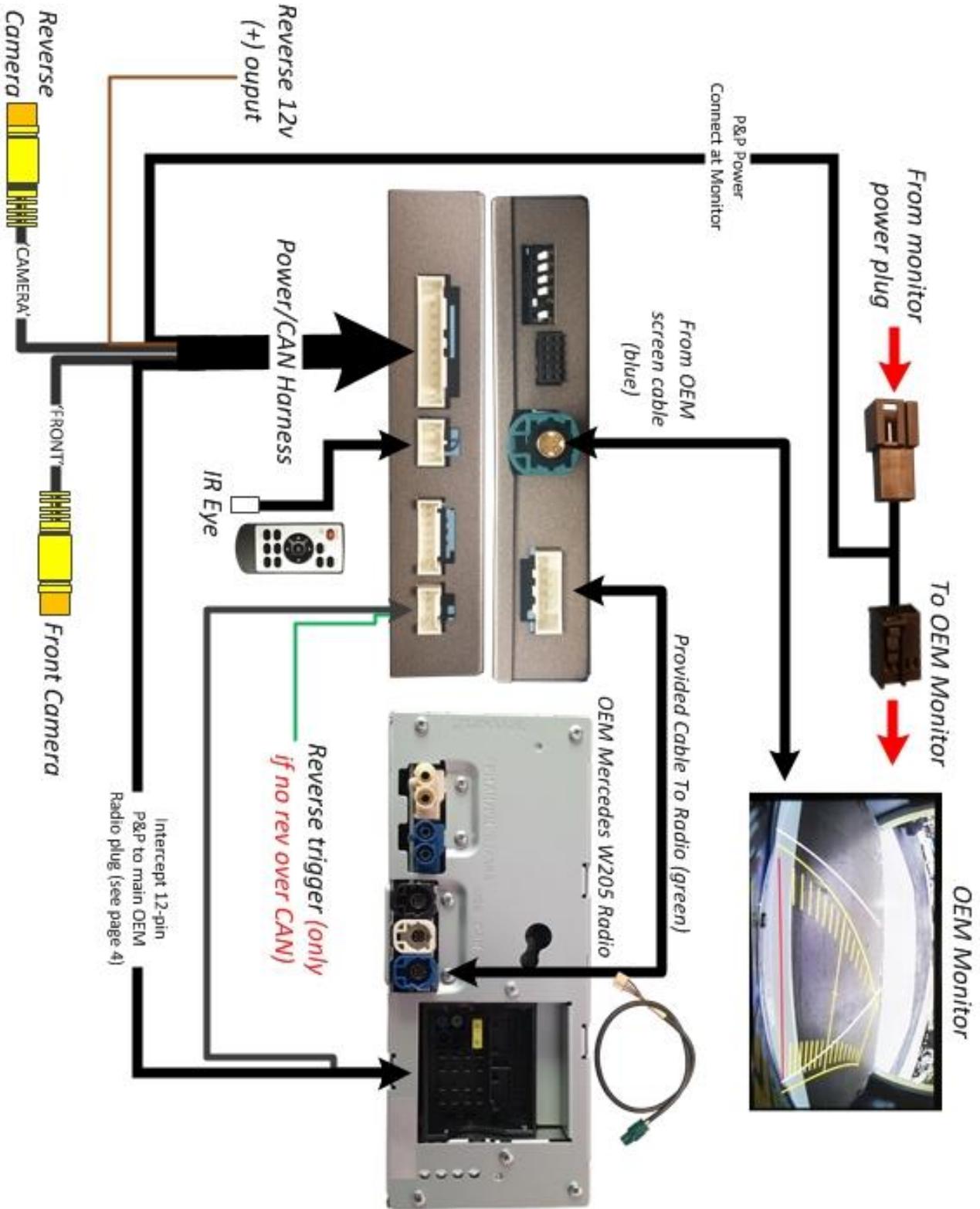


11. Power your reverse camera with an accessory 12v source, or use the **brown wire** for **reverse 12v only**. Splice ground (-) to the black wire provided to the interface, or find another ground point/wire in the car.
12. Connect signal from the rear camera to the RCA labeled 'CAMERA' among the main Power/CAN harness.
13. Connect the white plug from the Power/CAN Harness to the port on the W205-N RVC interface labeled 'POWER/CAN'.
14. **Optional:** If adding an additional video input (including front camera), use the provided RCA labeled 'FRONT' 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.*
15. 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 you still are not getting anything on screen, providing the **green wire** among the **CAN 2 Harness** with a (+) reverse signal will switch the screen manually.

W205-N RVC Install Diagram

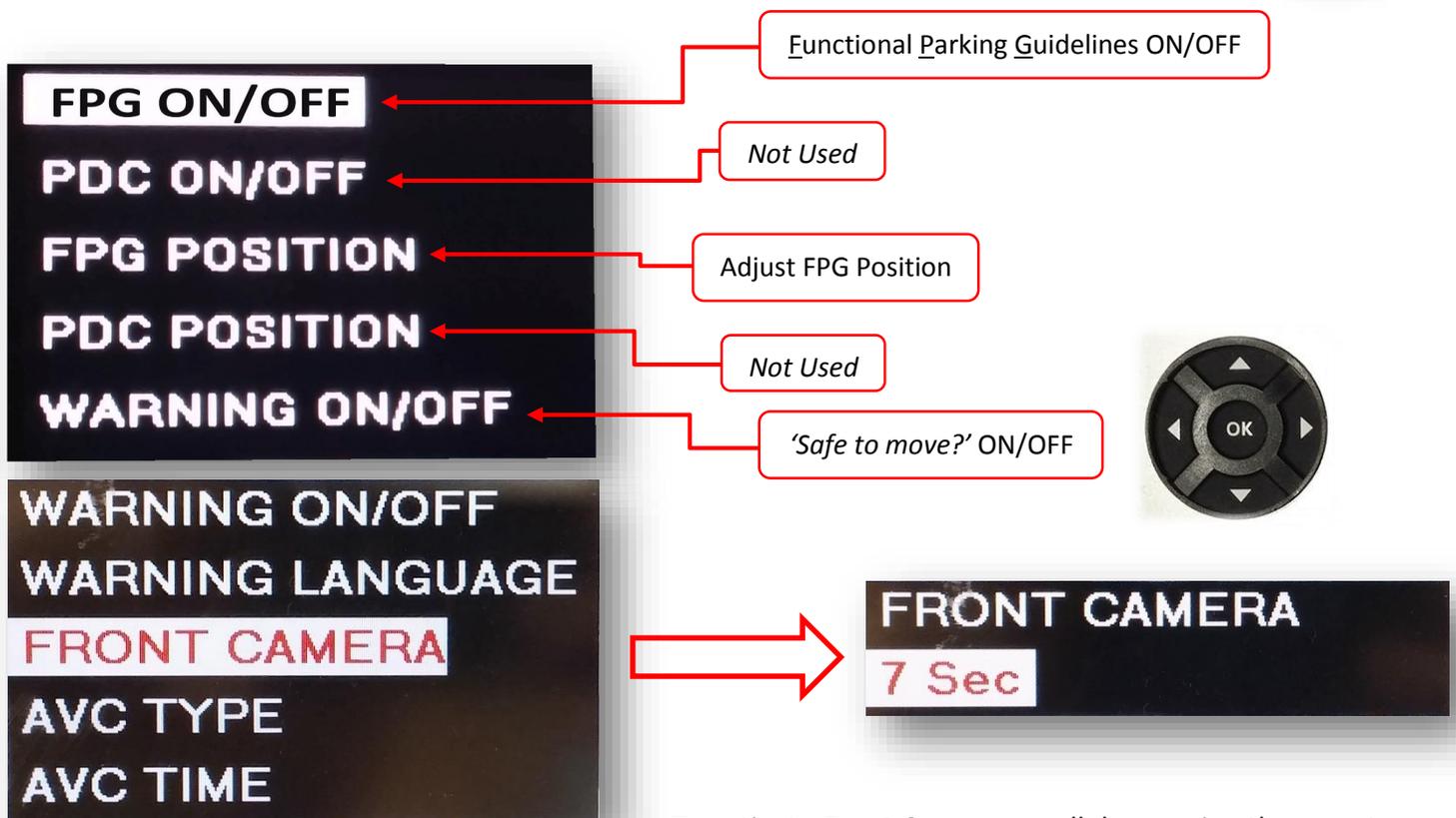


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## Menu Adjustments

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** mode (place vehicle in reverse)
- 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).



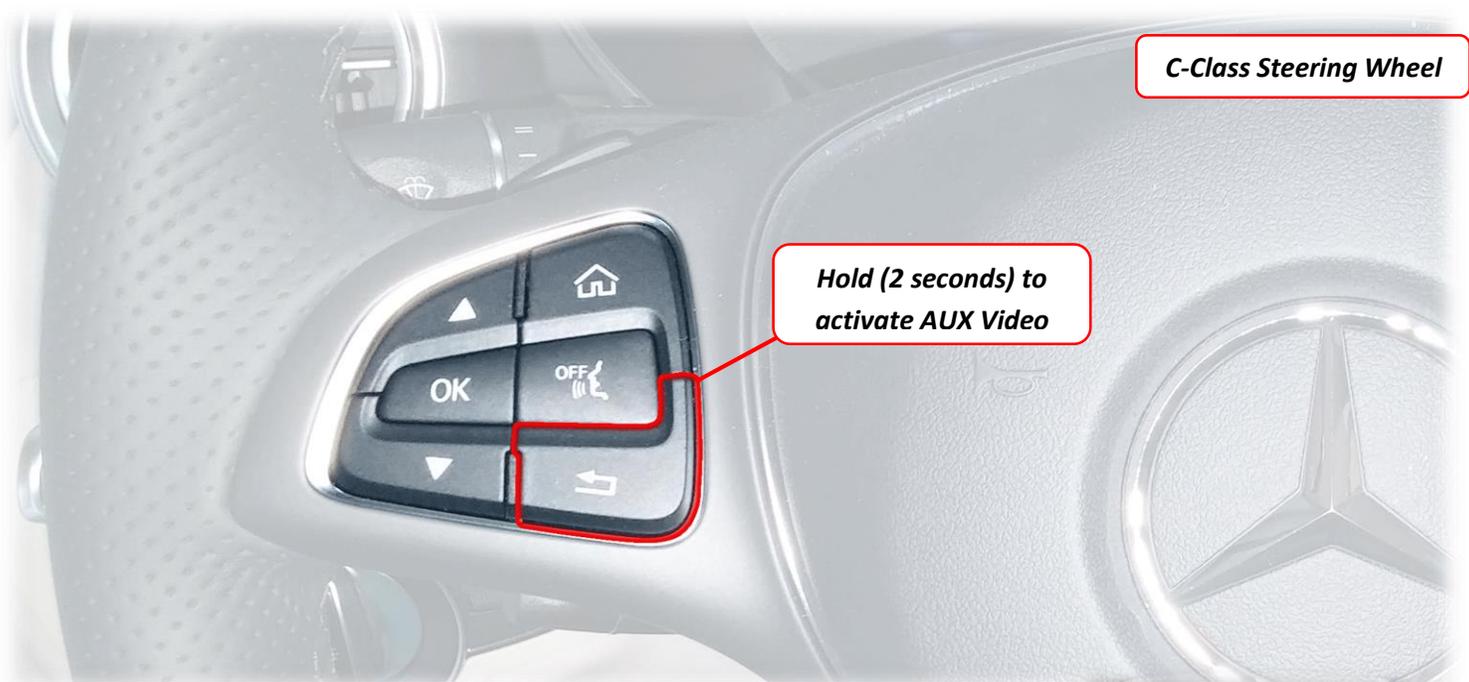
To activate **Front Camera**, scroll down using the remote arrow keys when in the menu to **FRONT CAMERA**. Once in this setting, press OK and choose (up/down) between 5, 7, 9 or 11 seconds for **auto-front switching timeout** (once the vehicle leaves reverse gear, the front camera input will stay active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

W205-N RVC Operation

- **Once the W205-N RVC 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 forcing the Front Camera at any time, press the clear button OR the NAVI button on the radio. On some vehicles, this is located on the steering wheel, others this is located near the COMAND knob. Otherwise, the front camera will display for as long as the setting was programmed (5,7,9 seconds, etc) once you leave Reverse gear.**



C-Class Steering Wheel



CLS Comand knob



C Class Radio



CLA  
COMAND  
knob

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