

NAV-TV

INTERFACING THE FUTURE

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BHM
12/08/17
NTV-DOC279

W213-N RVC

NTV-KIT792



Overview

The W213-N RVC Kit interfaces a backup camera input (with active parking lines), 1 front camera & HDMI input to the factory media screen in 2017 Mercedes E-Class vehicles with the 8" or 12" media screens. *NOTE: dynamic parking lines are not supported on 12" screen.*

Kit Content



OSD Menu remote



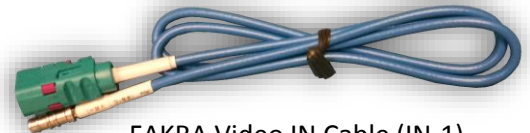
IR Eye



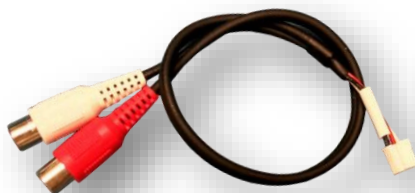
W213-N RVC Interface



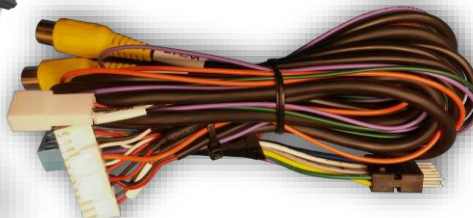
FAKRA Video OUT Cable (extension)



FAKRA Video IN Cable (IN-1)



HDMI Audio OUT



Plug & Play Power/CAN Harness



FAKRA OUT Gender-swap (OUT-1)

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 Expansion Board HDMI Input Digital RGB Input



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

Dip Switch Settings*

DIP SW	1	2	3	4	5	6	7	8
UP	Not Adding NAV	SEE BELOW	N/A	OEM Camera	N/A	Keep UP	SEE BELOW	Keep DOWN
DOWN	Adding NAV	SEE BELOW	N/A	Adding Rear Cam	N/A	Keep UP	SEE BELOW	Keep DOWN



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

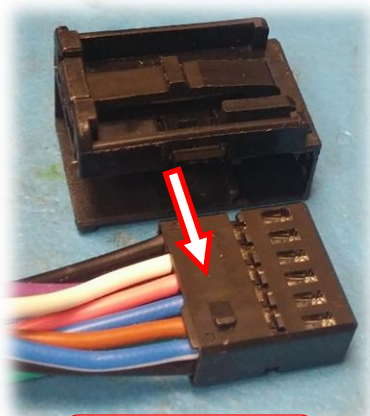
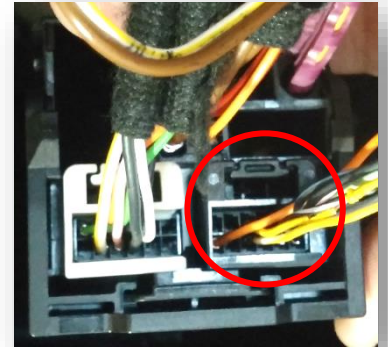
DIP Switches 2, 5 & 7

E-CLASS 8.4"	DIP SW	2	7
	UP		
	DOWN	X	X

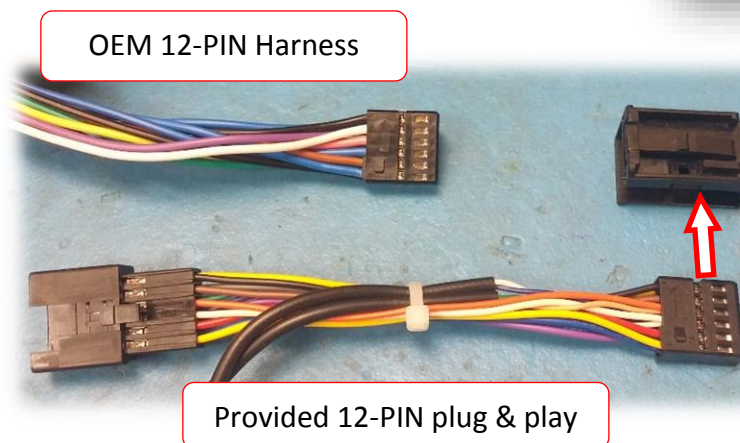
E-CLASS 12.3"	DIP SW	2	7
	UP	X	X
	DOWN		

W213-N RVC Radio removal and kit Installation

1. Begin by opening the arm rest compartment using the press button.
2. Beneath the arm rest flaps, remove the (2x) circular rubber pads (pull off) which hide (2x) screws. Remove these screws and pry plastic piece out of the way.
3. Under the plastic piece, remove screws securing the lower dash panel to the sub-dash.
4. Pry up the dash panel, disconnect all harnesses and set aside to access radio for connections. Remove radio unit from dash.
5. With the radio removed, locate the main quad-lock radio power plug, locate the 12-pin black plug and remove it (press clip on top and pull).
6. 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



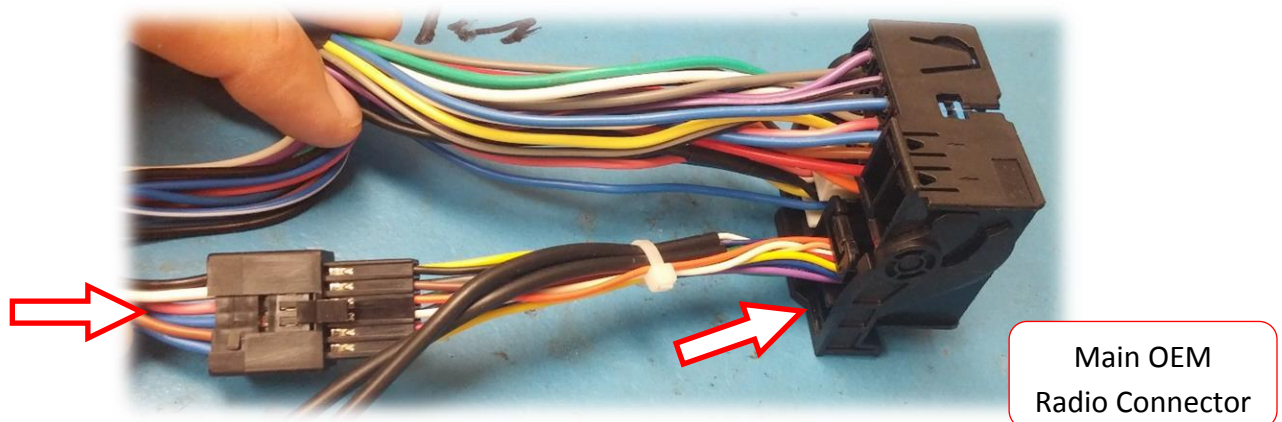
OEM 12-PIN Harness

Provided 12-PIN plug & play

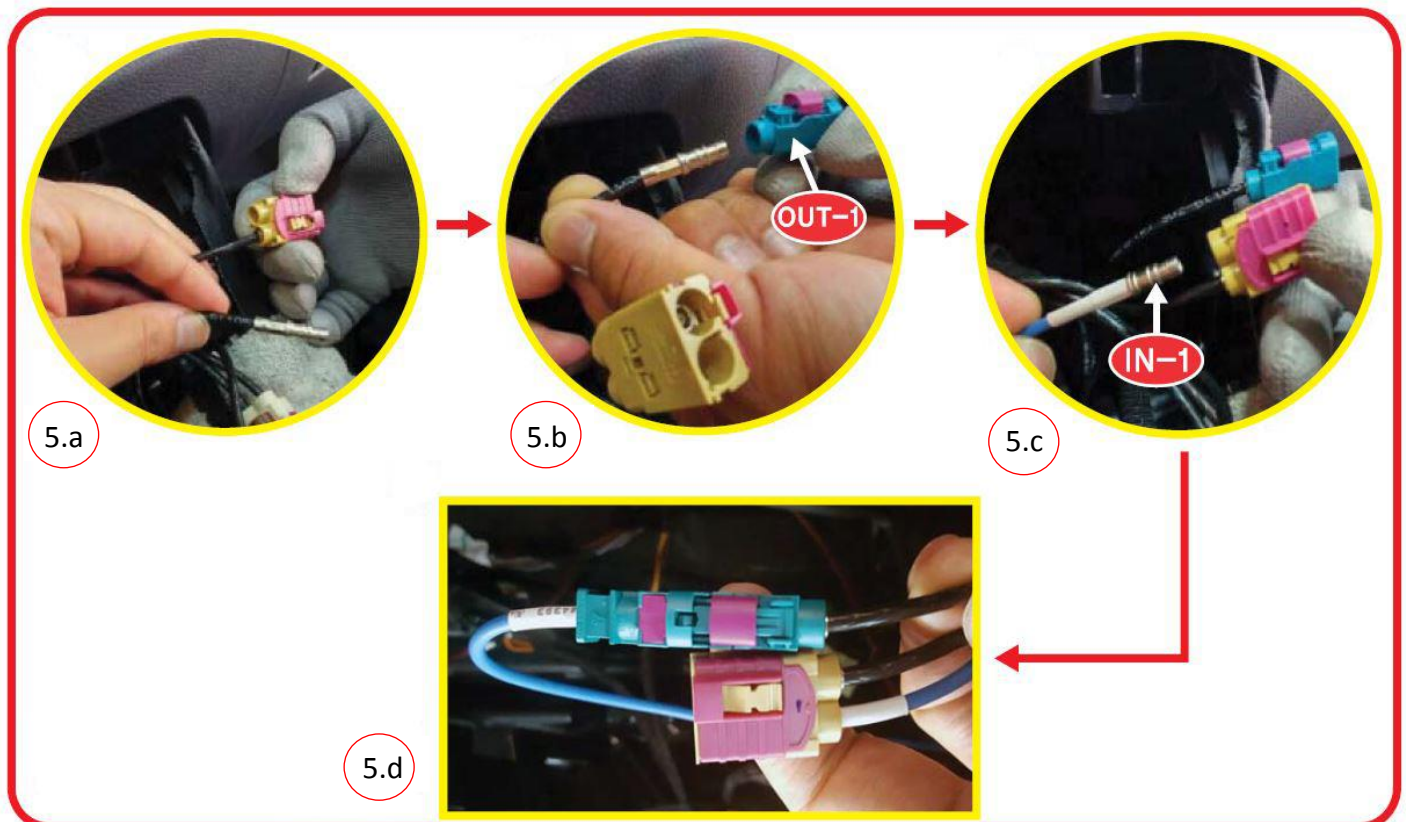
OEM 12-pin
outer shell

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

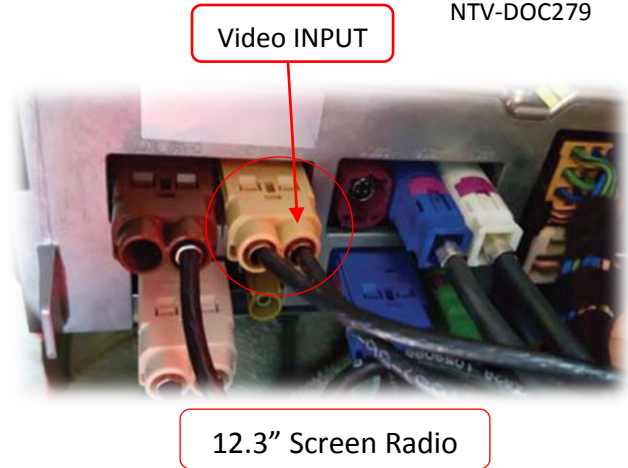
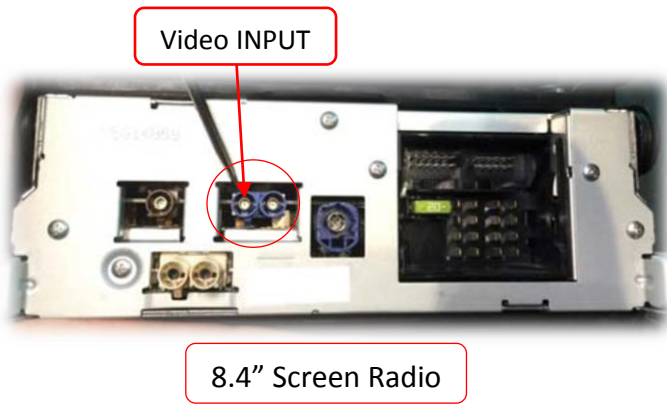
7. Connect the OEM 12-pin to the female end of the plug & play portion of the harness from step 3. Connect the new harness assembly back into the Main OEM Radio connector like shown.



8. The video interception for this kit requires removing coaxial cables from the factory FAKRA connectors and re-routing them through the W213-N kit. See below for modification information:

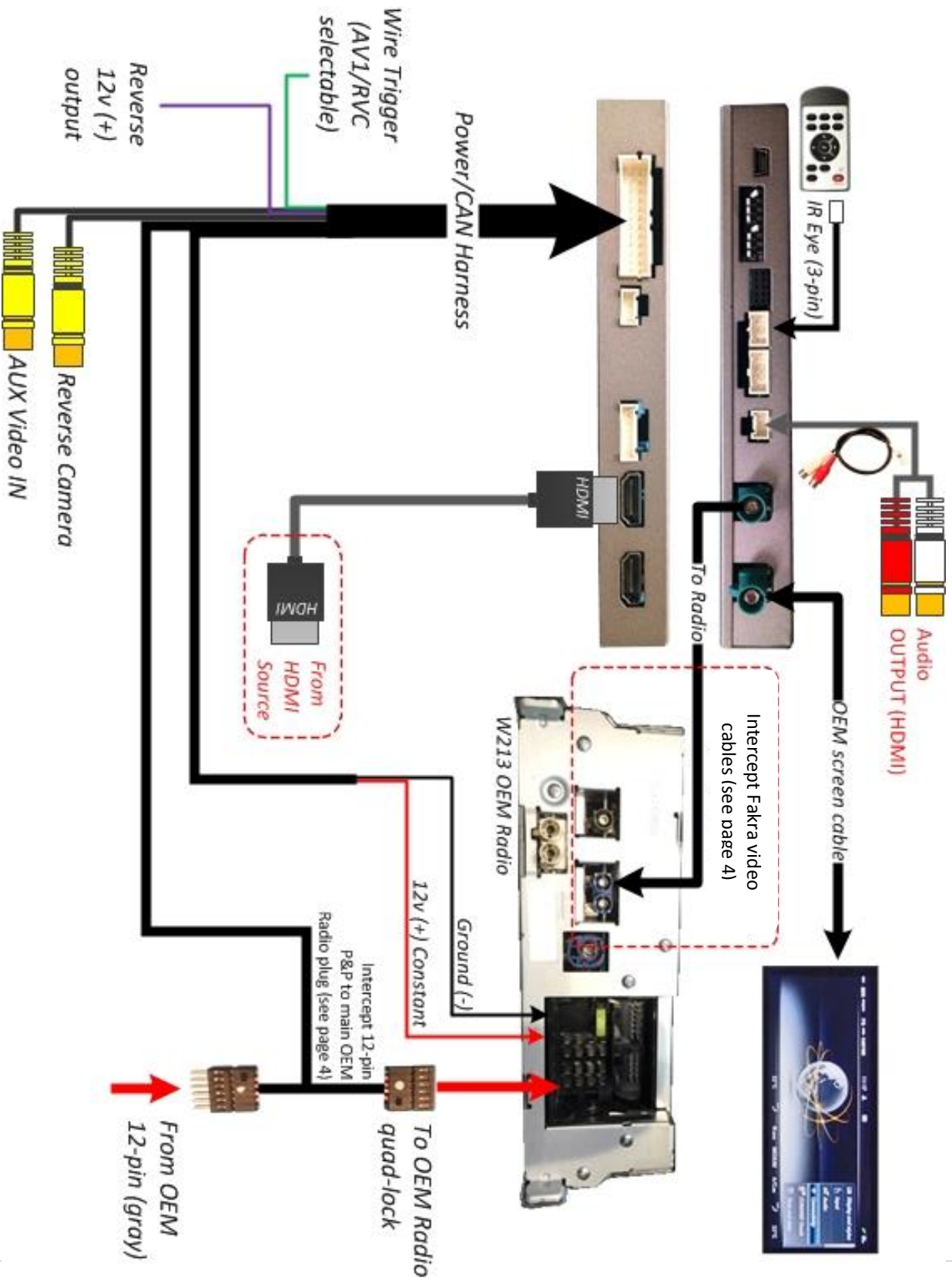


NOTE: 'IN-1' and 'OUT-1' represent provided coaxial cables – refer to 'Kit Content' section for visual aid.



9. Connect the **black wire** from the main harness to a ground wire behind the radio at the main power connector.
10. Connect the **red wire** from the main harness to the constant 12v (+) wire behind the radio at the main power connector.
11. Power your reverse camera with an accessory 12v source, or use the **violet 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 W213-N RVC interface labeled 'POWER/CAN'.
14. **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.*
15. Start the car and test for proper functionality before replacing any dash pieces.

W213-N RVC Install Diagram

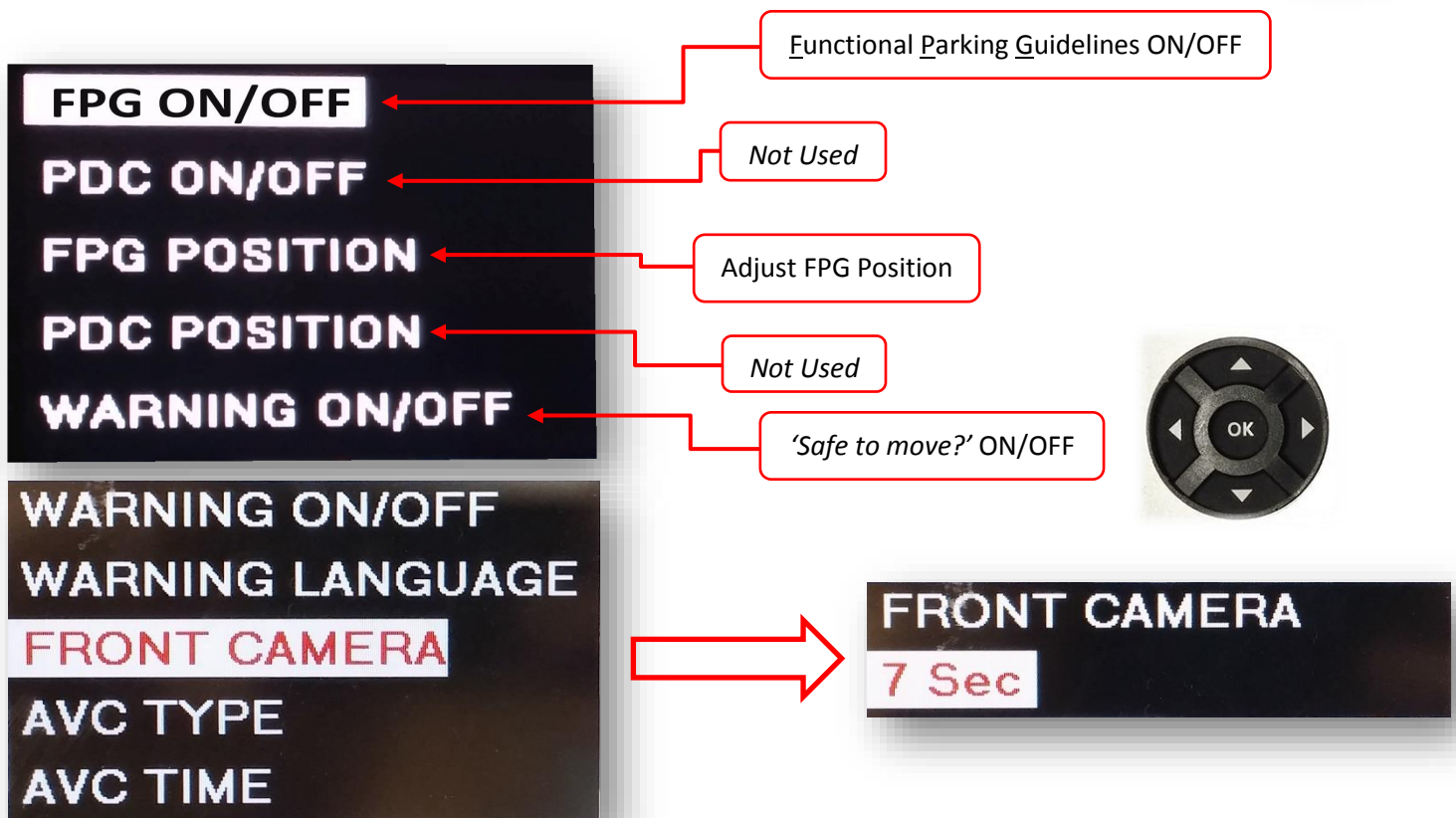


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Menu Adjustments

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).



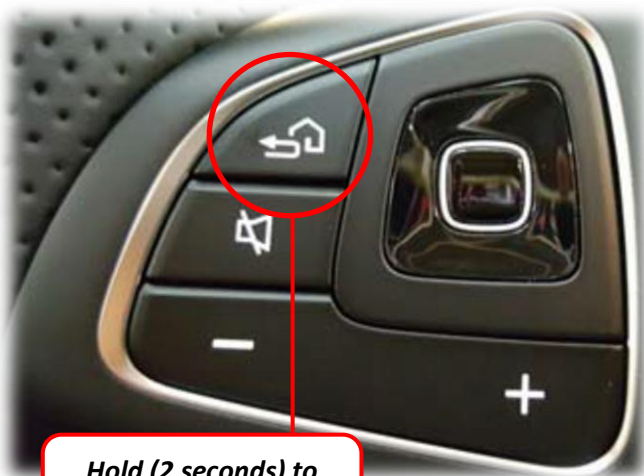
To activate **Front Camera**, scroll down using the remote arrow keys when in the menu to **FRONT CAMERA**. Once in this setting, press OK and choose (up/down) between 5, 7, 9 or 11 seconds for **auto-front switching timeout** (once the vehicle leaves reverse gear, the front camera input will stay active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

W213-N RVC Operation

- **Once the W213-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 & hold the Clear/HOME button OR press the NAVI button once 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.**



Hold (2 seconds) to activate AUX Video

Press and release once to activate AUX video



Hold (forward) to adjust PIP when in reverse

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