

Mercedes-Benz NTG 5.5 / 6 / MBUX

AHD / CVBS Camera Video interface

Compatible with 7" , 8" , 10" and 12" screens

Compatible with cars like:

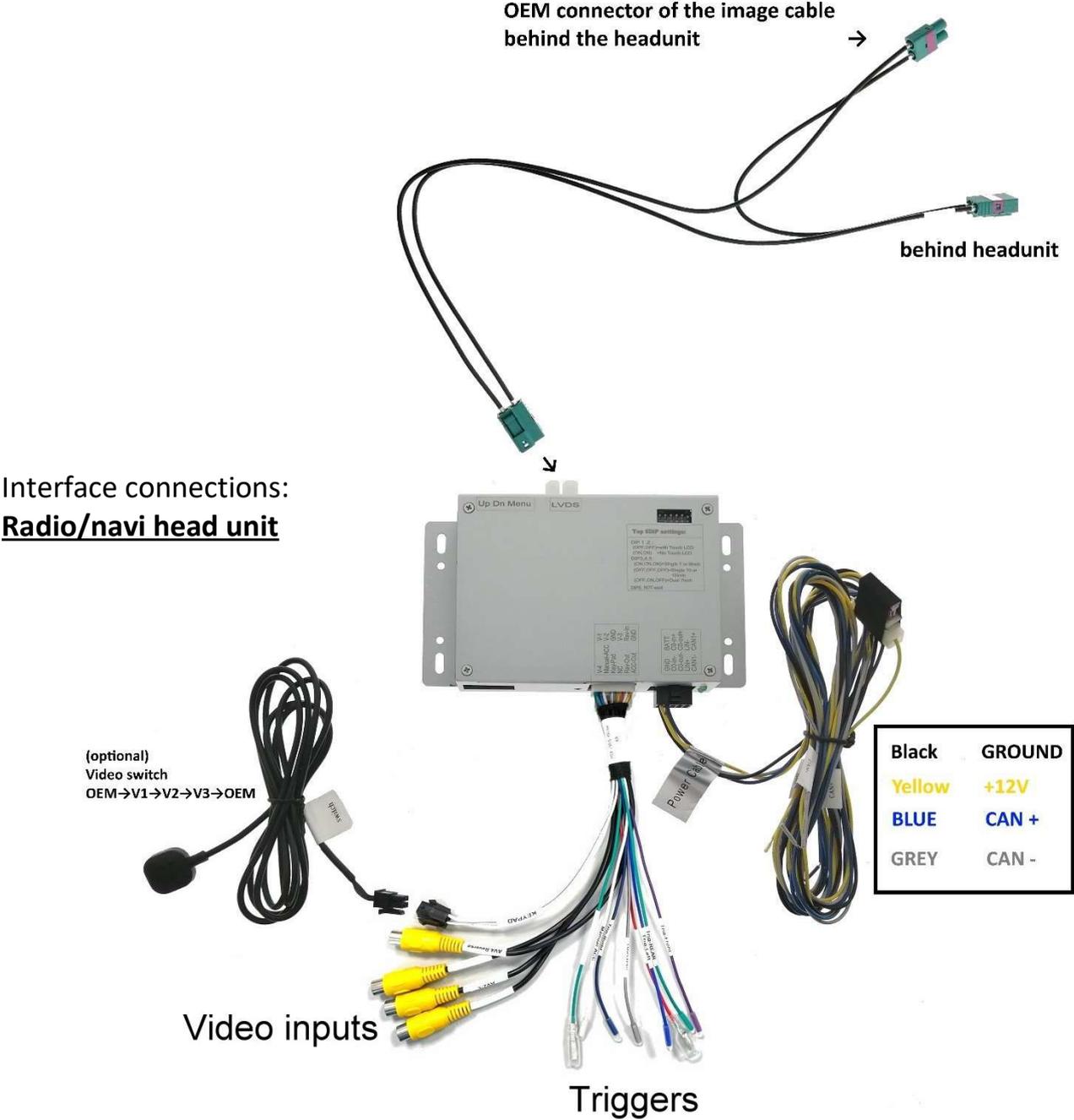
Actros truck
A-class (W177)
B-class (W247)
CLS-Coupé (C257)
Sprinter (W907)
E-class W213 / C238
S-class (facelift from June 2017)

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Article code: 300 217/8

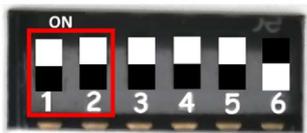
Diagram:



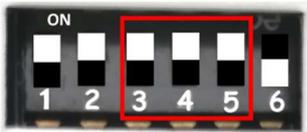
DIP 6 settings



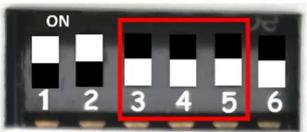
WITH TOUCHSCREEN LCD



NO TOUCHSCREEN LCD



7 and 8 INCH LCD



10 and 12 INCH LCD

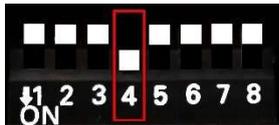
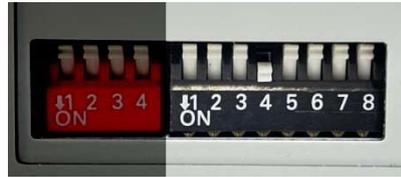


DUALSCREEN 7 INCH

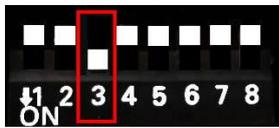


NOT USED

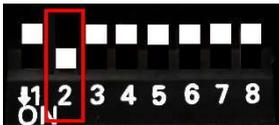
DIP 8 SETTINGS



REAR VIEW CAMERA (V4)



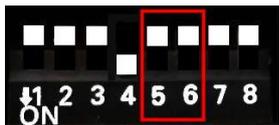
Show FRONT CAMERA after reverse
(time adjust in MENU 5, 10, 15, 20 sec.)



Right side camera (V2)



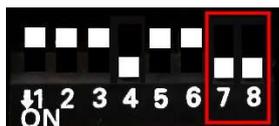
Left side camera (V1)



MUST BE UP (OFF)



7+8 UP (OFF) for 10 and 12 inch display



7+8 DOWN (ON) for 7 and 8 inch display

It's recommended to reset power after changing DIP settings (black connector).

Remark: turn off the DIPs of video inputs which are not used to avoid black screen.

Trigger wires:

- **Trig-Rear***: insert +12/24V reverse light signal to activate the rear camera (signal must be stable, not LED)
- **Trig-Right**: insert +12/24V to activate the video image of V2
- **Trig-Front**: insert +12/24V to activate the Front camera (optional).
Front camera also switches on automatically after reverse, and also by short-press switch button (included).
- **Trig-Left**: insert +12/24V to activate the video image of V1

*Usually the reverse function is detected by CANbus and it's not needed to connect the Trig-REAR wire to reverse signal.

Additional power wires:

- CAM POWER 12V (only 300217): provides 12V to power the camera (if reverse function works by CANbus)
- ACC OUT: provides 12V while ignition is on (when CANbus is running)
- Manual ACC: connect to 12V ACC only when interface is disconnected from CANbus.

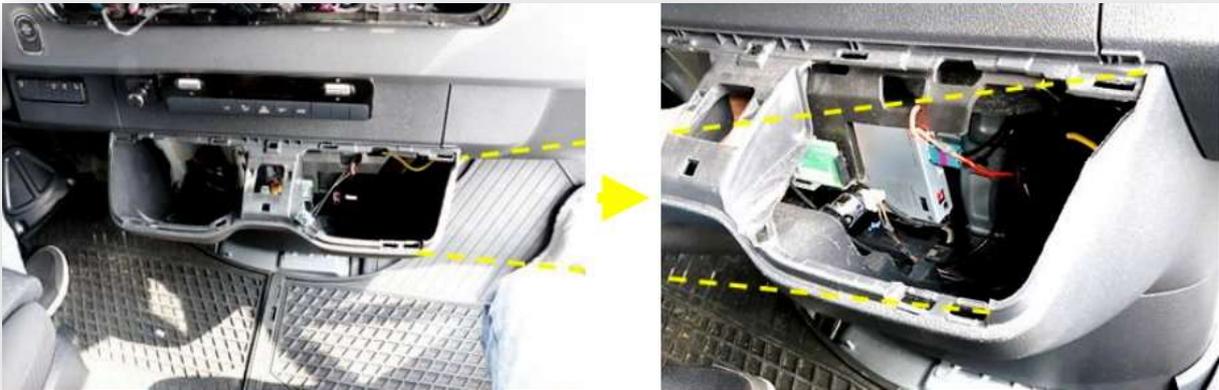
Switching from OEM picture to external sources manually:

- Video 1/2/4: User may use long-press "CALL-END" key on the steering wheel or external switch (included) to switch from OEM picture to external video sources (OEM → V1→V2→V4→OEM).
- Short-press on external switch to switch fast from OEM picture to Front cam picture.



Attention: MB Sprinter interface installation place!

Place the interface box behind the storage part as mentioned below.



Example installation MB Sprinter MBUX:

Remove LCD part:
2x torx screws behind the air vent.



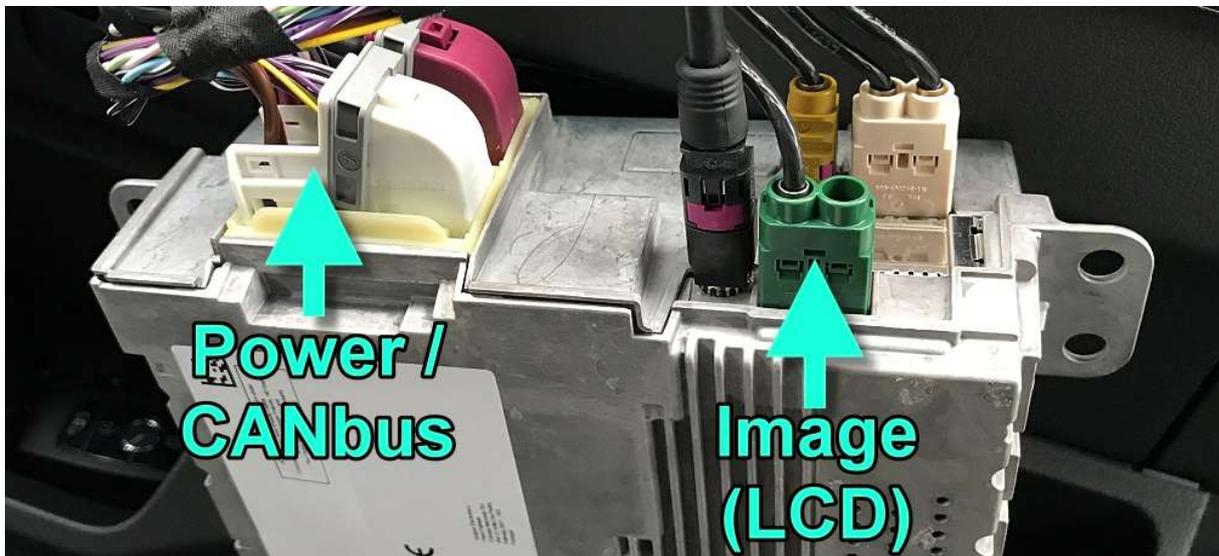
Take out the LCD part as shown below:



Take out the headunit:

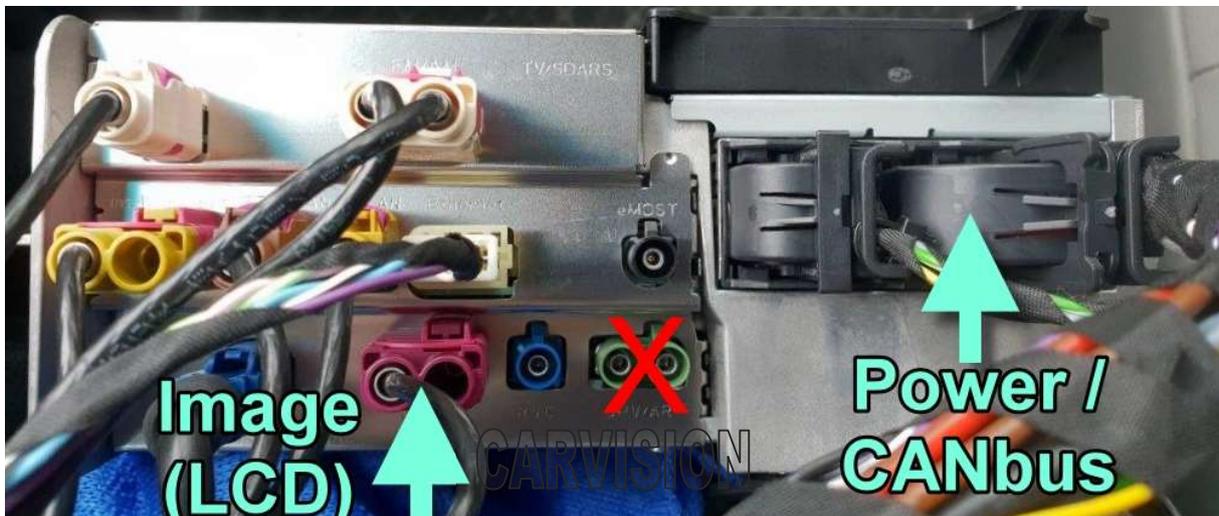


Backside of headunit (version 1):



OR

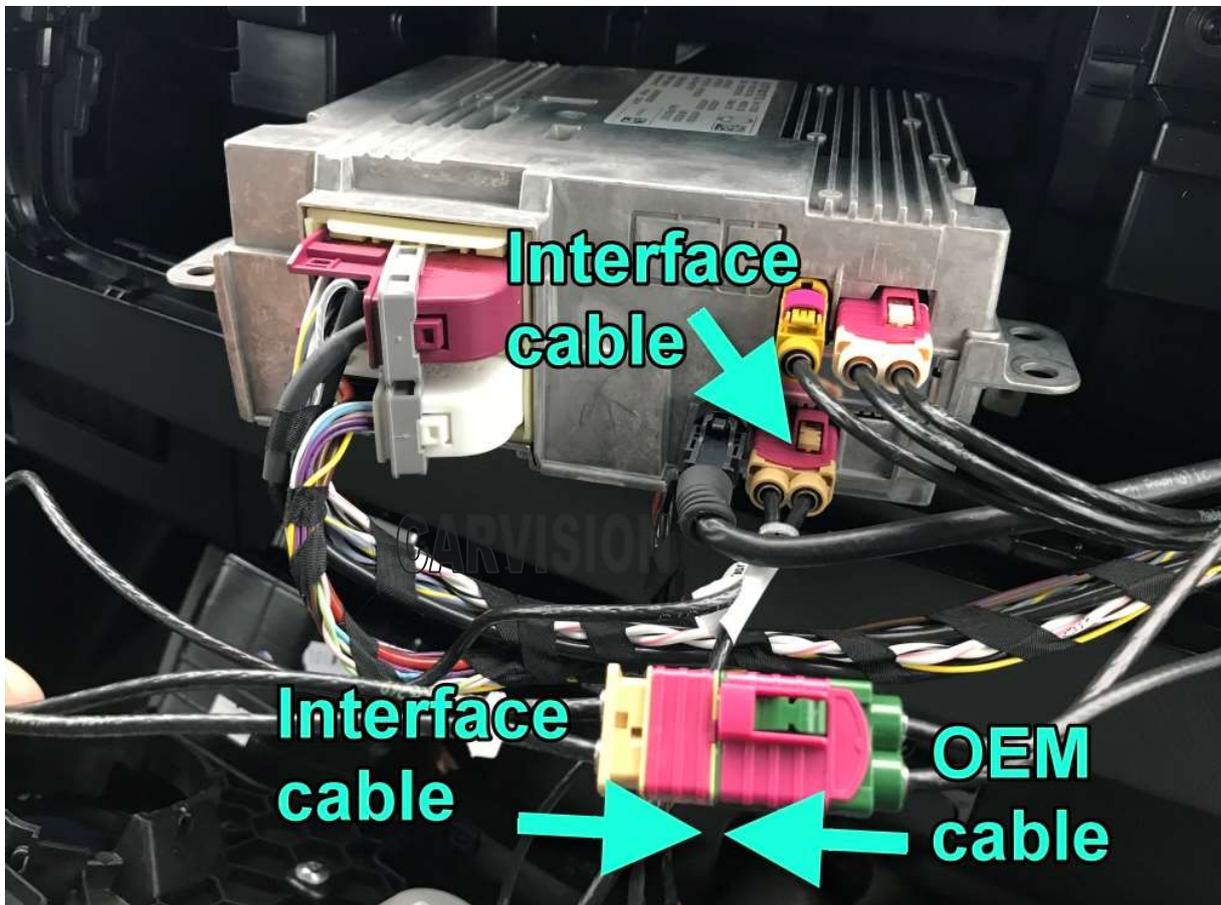
Backside of headunit (version 2):



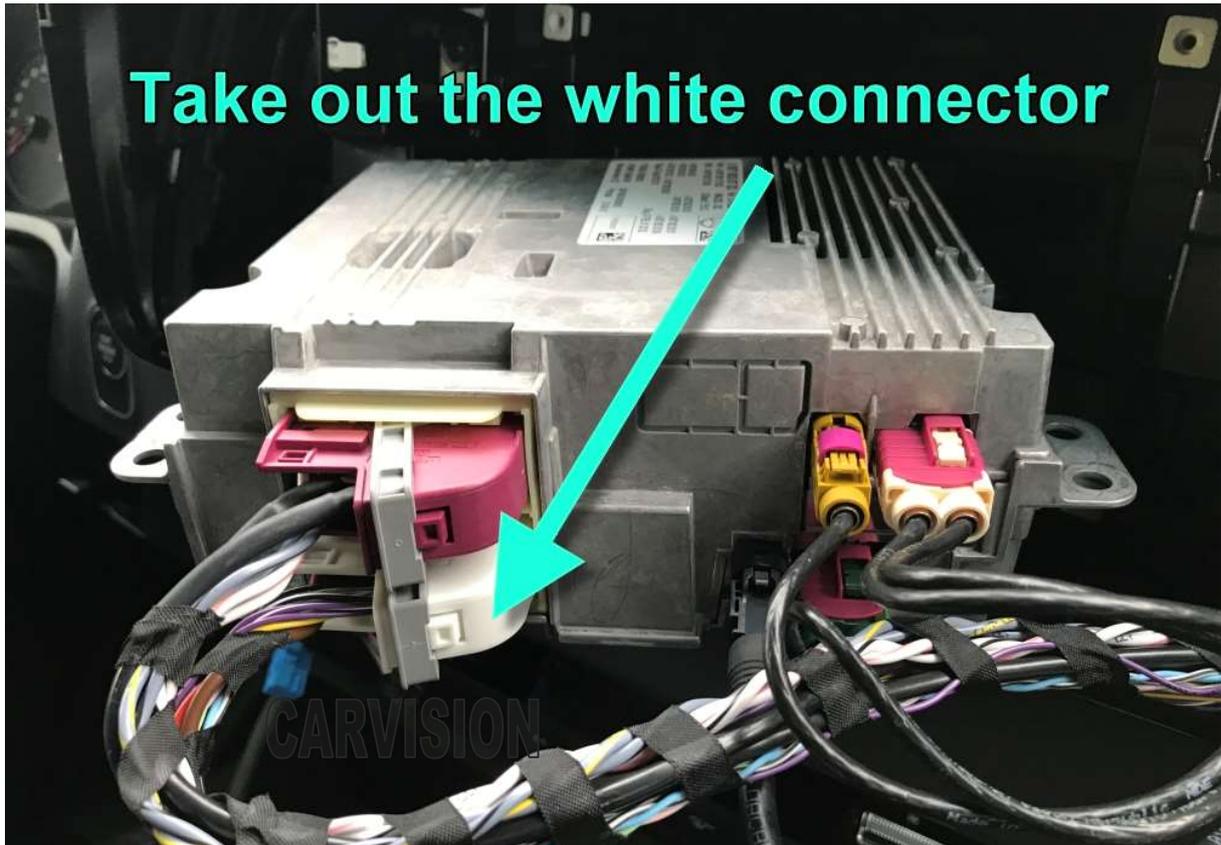
Take out the **GREEN** or **VIOLET** LCD connector:



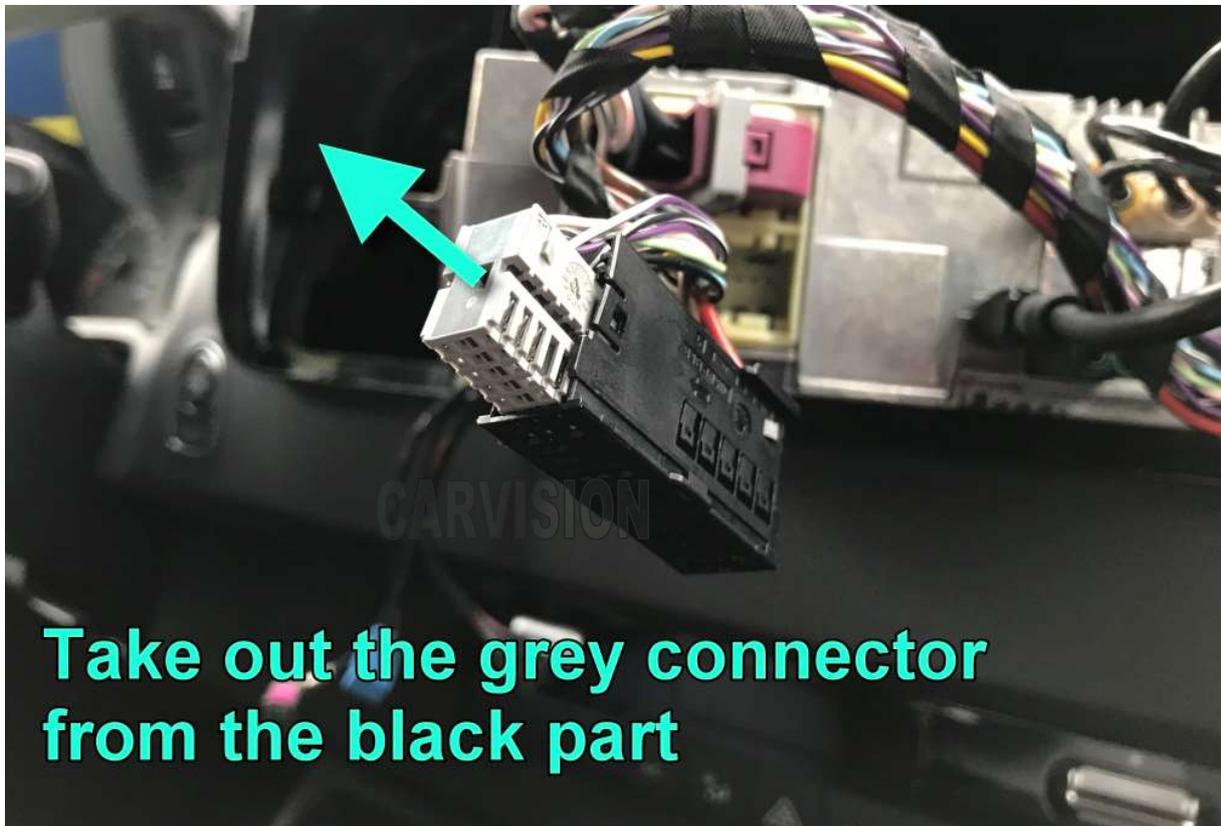
Connect the interface LVDS cables in between like shown below:



Take out the white (or black connector on some headunits) power connector:



Take out the GREY part from the black housing in the white connector:

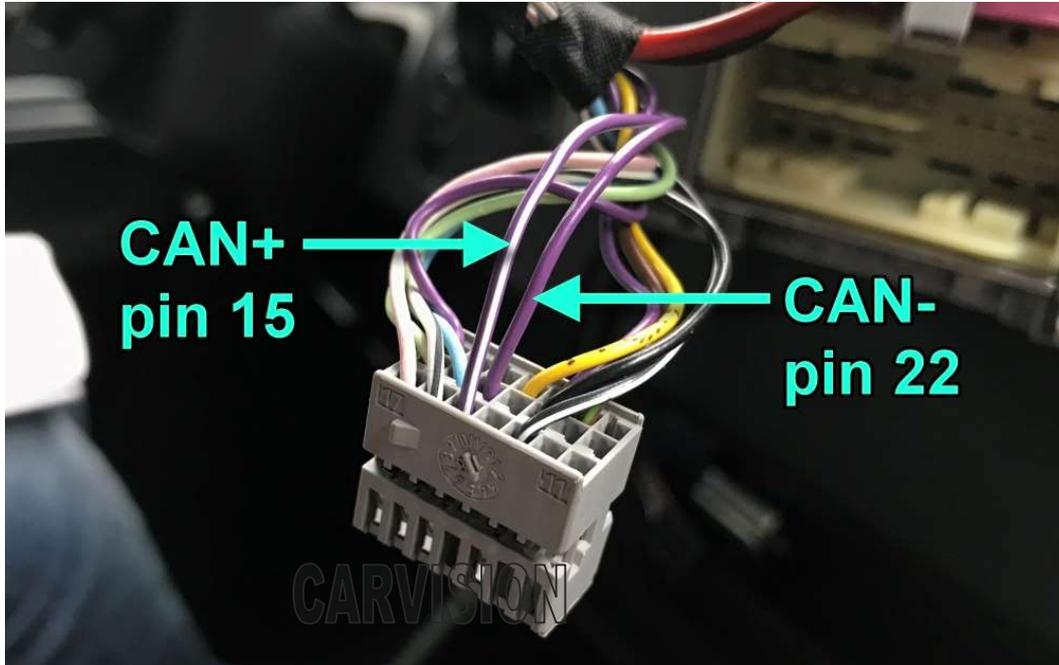


Connect the CANbus wires of the interface (version 1):

Interface: Blue = CAN+ / Grey = CAN-



Car wires: Pin 15 = CAN+ / Pin 22 = CAN-

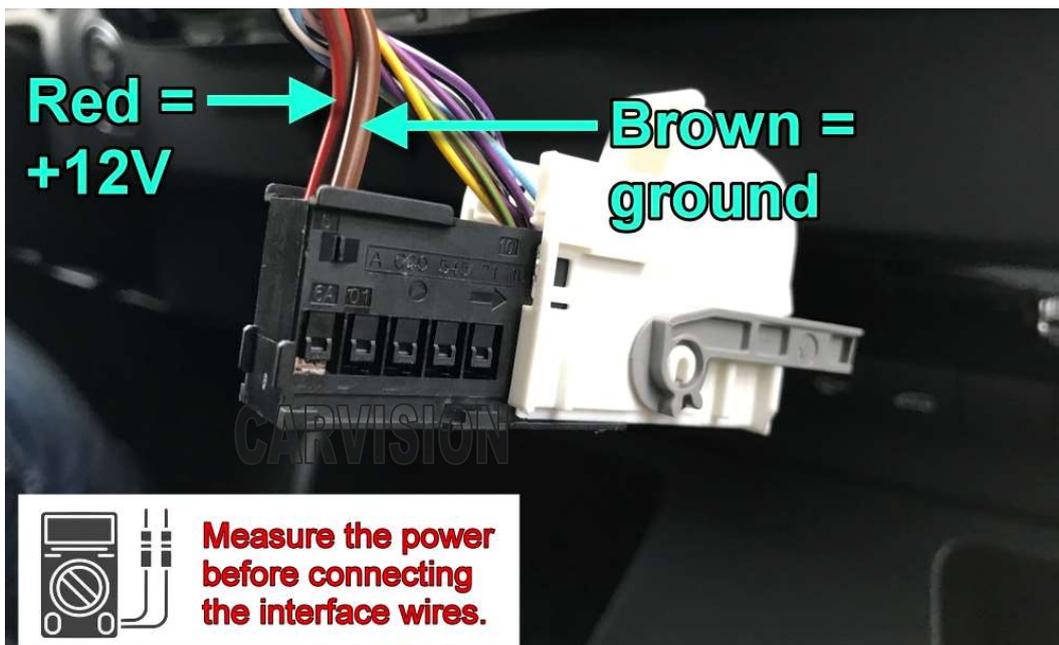


Connect the power wires (version 1):

Interface: Yellow = +12V / Black = ground

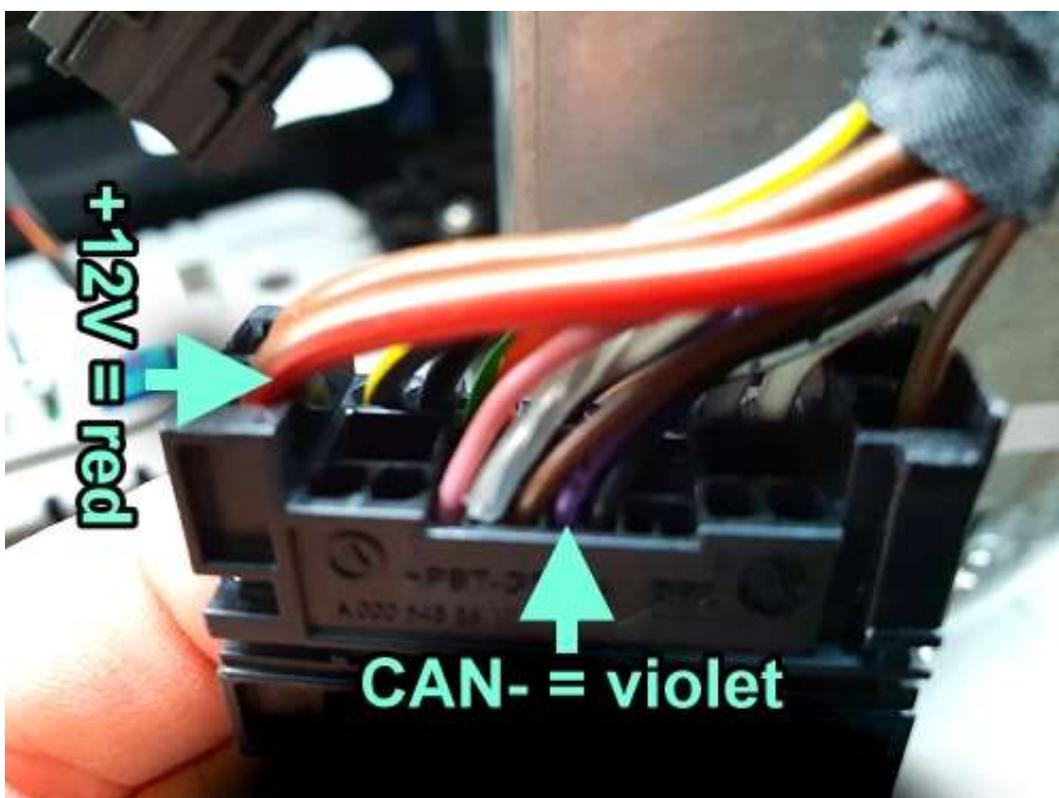
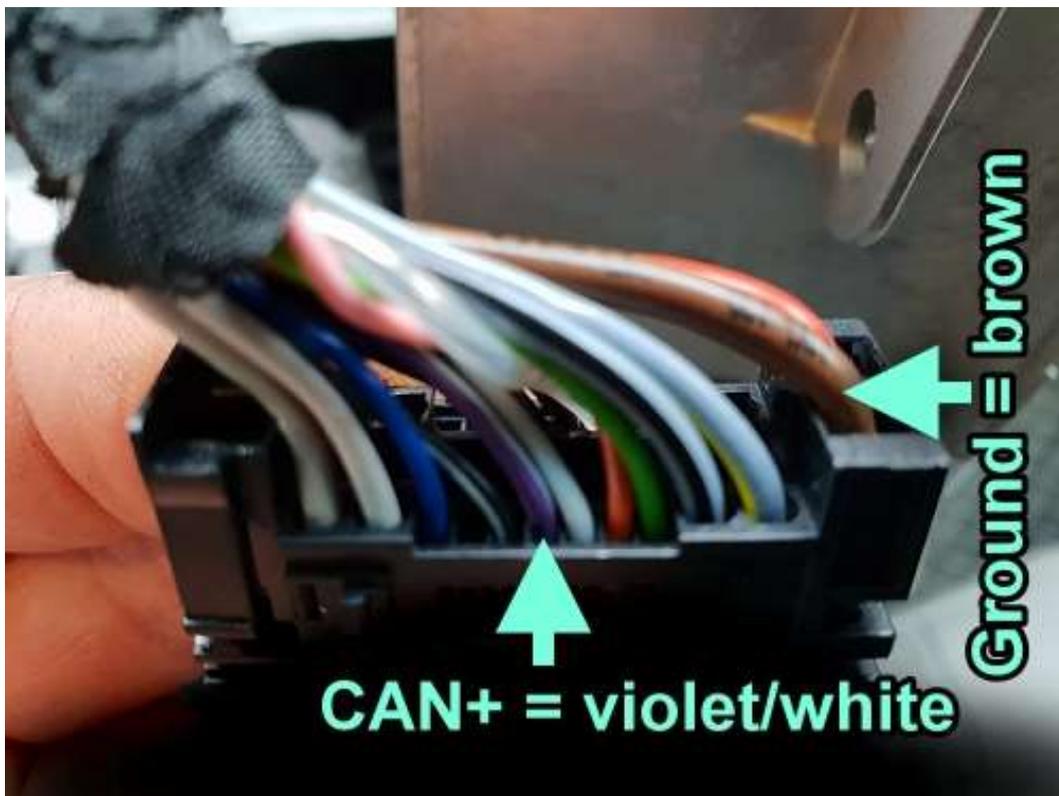


Car wires: Thick red = +12V / Thick brown = ground



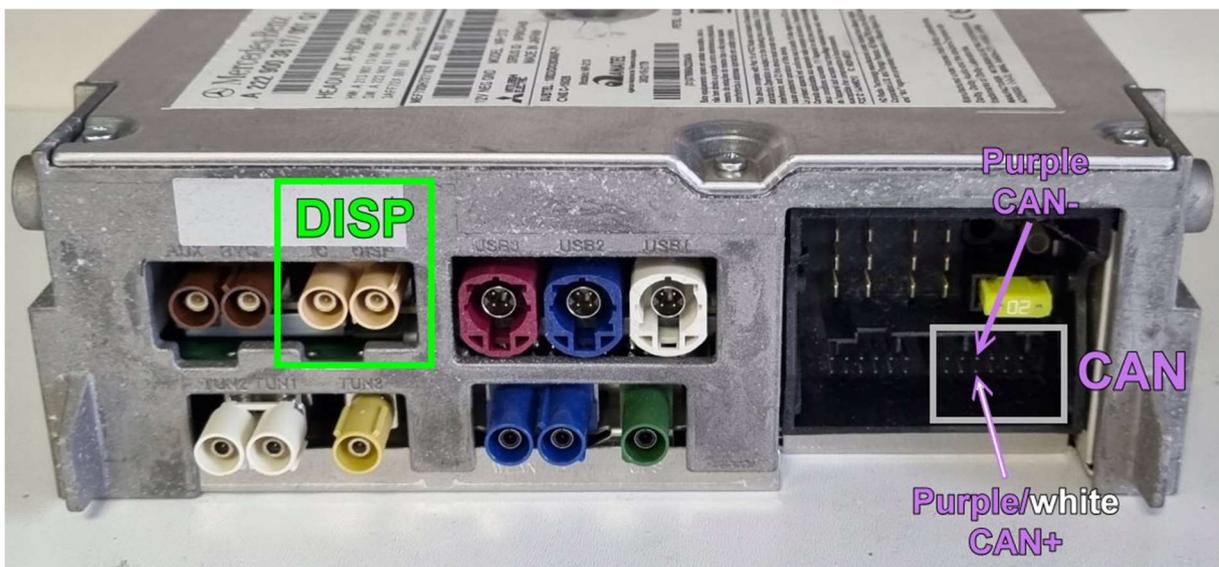
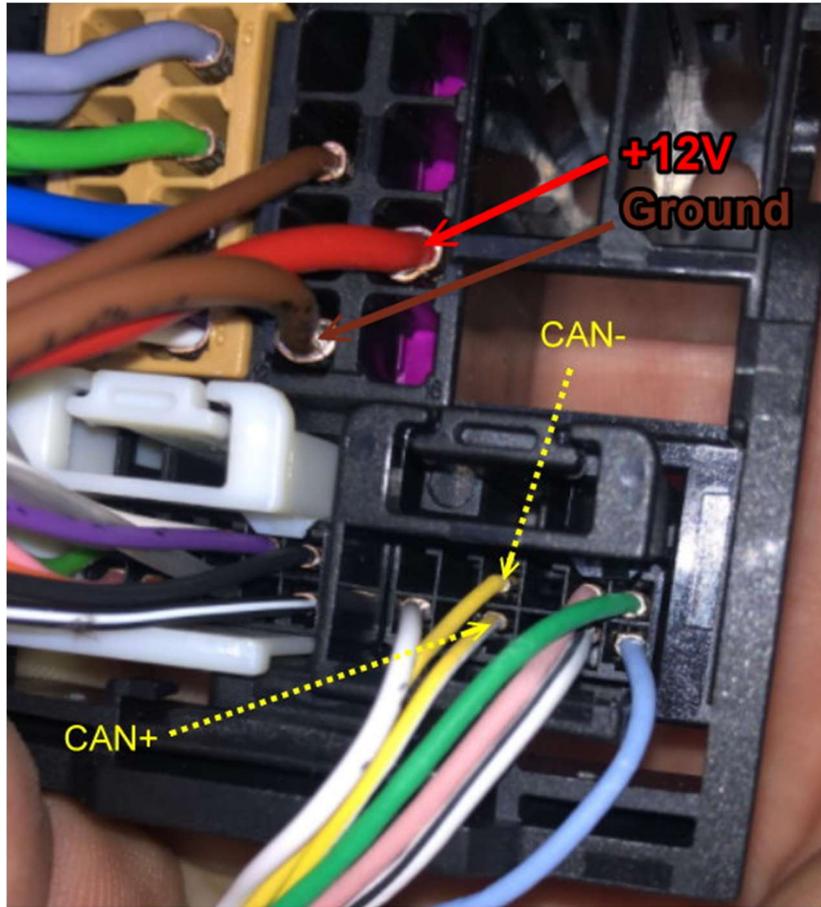
Additionally:

Connect the power and CANbus wires of the interface (head unit version 2) as below:



OR

NTG 5.5 with beige (double) LVDS connector and regular Quadlock power/CAN plug:



MENU settings:

- Activate a camera/video channel and press and hold the **MENU** button (3 sec.) to show the menu settings.
- Use **UP / DOWN** to change a setting
- Use **MENU** to jump to the next option



REAR CAM (V4) settings:

Menu of V4-REVERSE	
Brightness	55
Contrast	55
PosH	04
PosV	00
Trigger	Can
InputSource	AutoDetect
Guide-Type	OFF
Guide-PosV	34
GuideL-PosH	37
GuideR-PosH	93
Maxim-CURVE	10
External SW	YES

Brightness: adjust the brightness of the picture

Contrast: adjust the contrast of the picture

PosH: move the picture to left/right

PosV: move the picture to up/down

Trigger: **CAN:** interface switches over if CAN data matches, otherwise trigger wire needs to be connected.

Wire: use trigger wire to activate the camera/video channel

InputSource: **AutoDetect:** interface detects the inserted video signal automatically.

Other fixed video system settings are: **PAL, CVBS, 720P PAL, 720P NTSC, 960P PAL, 960P NTSC, 1080P PAL, 1080P NTSC.**

Guide-Type: turn guidelines on/off.

Guidelines options: **Dynamic:** guidelines turn with the steering wheel (if CAN Data matches).

Fixed: static guidelines (always on screen, independent of CAN data).

Guide-PosV: adjust the height position of the guidelines

GuideL-PosH: adjust the horizontal position of the left guideline

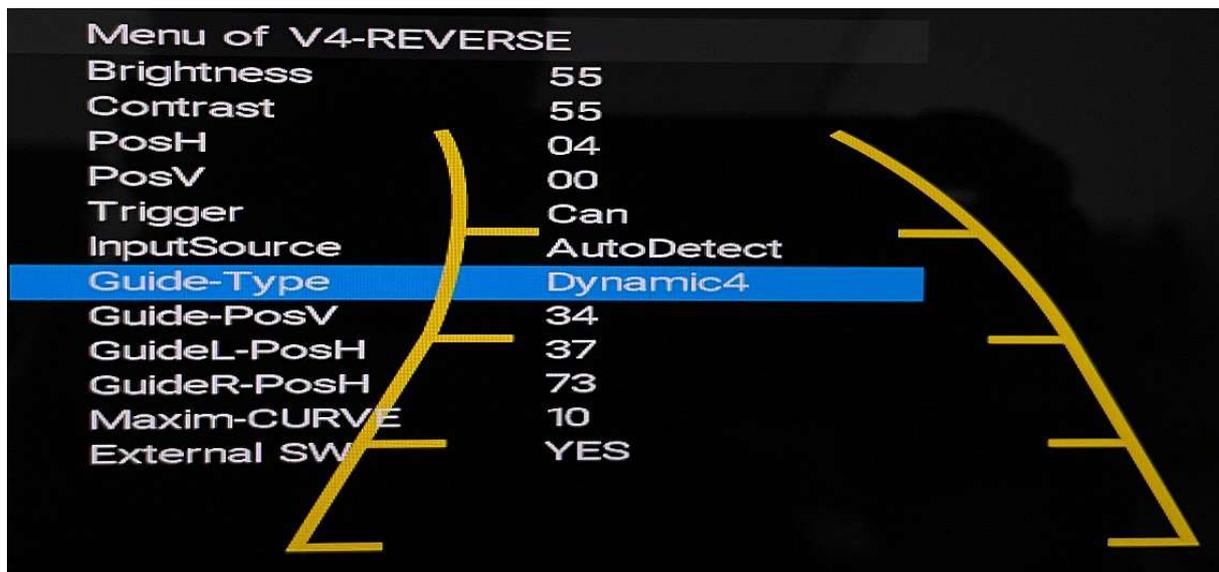
GuideR-PosH: adjust the horizontal position of the right guideline

Maxim-curve: adjust the maximum curve of the guidelines

External SW: activate the rear cam (V4) input by press+hold the external push button.

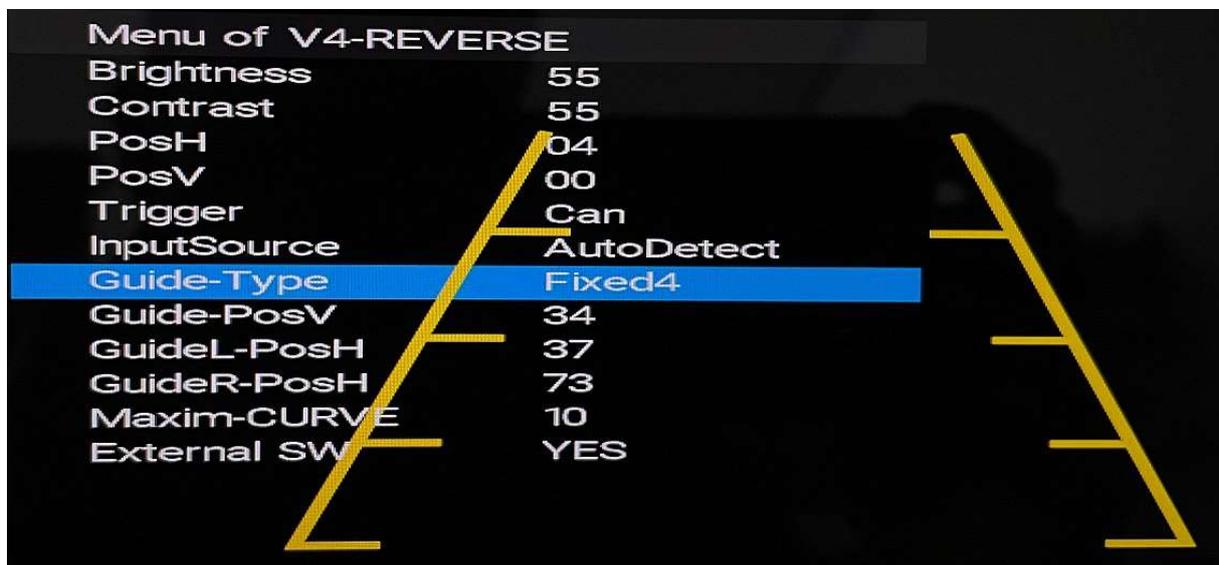
Dynamic guidelines:

Choose between 6 types of dynamic patterns!



Fixed guidelines:

Choose between 6 types of fixed patterns!



FRONT CAM (V3) settings:

Menu of V3-FRONT	
Brightness	50
Contrast	50
PosH	08
PosV	00
Trigger	10s after REV
InputSource	AutoDetect

Trigger: select the desired time to show the Front cam picture automatically after reversing.

InputSource: **AutoDetect:** interface detects the inserted video signal automatically.
Other fixed video system settings are: [PAL](#), [CVBS](#), [720P PAL](#), [720P NTSC](#), [960P PAL](#), [960P NTSC](#), [1080P PAL](#), [1080P NTSC](#).

Left (V2) / Right (V1) settings:

Menu of V2-RIGHT	
Brightness	50
Contrast	50
PosH	08
PosV	00
Trigger	Can
InputSource	AutoDetect

Trigger: **CAN:** interface switches over if CAN data matches, otherwise trigger wire needs to be connected.
Wire: interfaces switches only over by using the tigger wire to activate the camera/video channel.

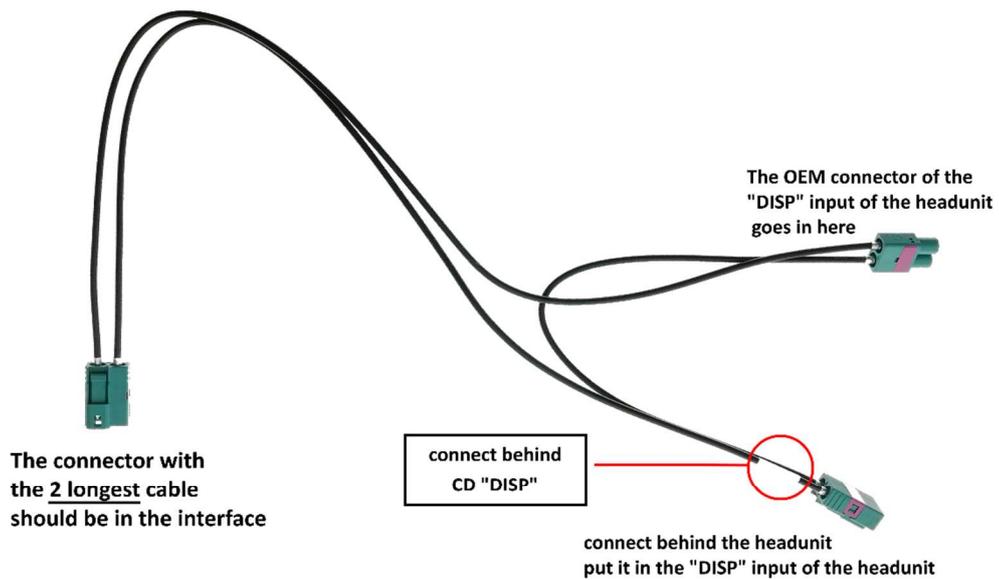
InputSource: **AutoDetect:** interface detects the inserted video signal automatically.
Other fixed video system settings are: [PAL](#), [CVBS](#), [720P PAL](#), [720P NTSC](#), [960P PAL](#), [960P NTSC](#), [1080P PAL](#), [1080P NTSC](#).

Troubleshooting

When you DON'T have OEM image
(only black screen with sound of the radio)



#1 Please check the LVDS cable



#2 Please check the power supply of the interface



Installation with CANBUS:
Yellow wire has +12 Volt ?

Installation WITHOUT CANBUS:
Yellow and purple wire has +12 Volt ?

Troubleshooting

When you have OEM image.

After putting in reverse, nothing is happening
(no rearview camera image, it stays in OEM image)



- #1 Please check black DIP4 (V4) and
- #2 Please insert 12V on **Trig-REAR** wire
- #3 Check the camera and make sure video is connected to V4 input.

Picture adjustment

When you have black/grey border on the edge of the picture, use MENU settings to adjust and move the picture to the right position (**Position-H / Position-V**)