

Video inserter

RL4-PCM60

Compatible with

Porsche vehicles

with PCM 4.1, PCM 5.0 and PCM 6.0 infotainment
and 12.3inch monitor



Example

Video-inserter for front- and rear-view camera
and two more video inputs

Product features

- Video-inserter for factory-infotainment systems
- 1 CVBS Input for rear-view camera
- 1 CVBS Input for front camera
- 2 CVBS Video-inputs for after-market Video sources (e.g. USB-Player, DVB-T Tuner)
- Automatic switching to rear-view camera input on engagement of the reverse gear
- Automatic front camera switching after reverse gear for 10 seconds
- Activatable parking guide lines for rear-view camera (not available for all vehicles)
- Activatable PDC (not available for all vehicles)
- Video-in-motion (ONLY for connected video-sources)
- Video-inputs NTSC compatible

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Legal Information

By law, watching moving pictures while driving is prohibited, the driver must not be distracted. We do not accept any liability for material damage or personal injury resulting, directly or indirectly, from installation or operation of this product. Apart from using this product in an unmoved vehicle, it should only be used to display fixed menus or rear-view-camera video when the vehicle is moving (for example the MP3 menu for DVD upgrades).

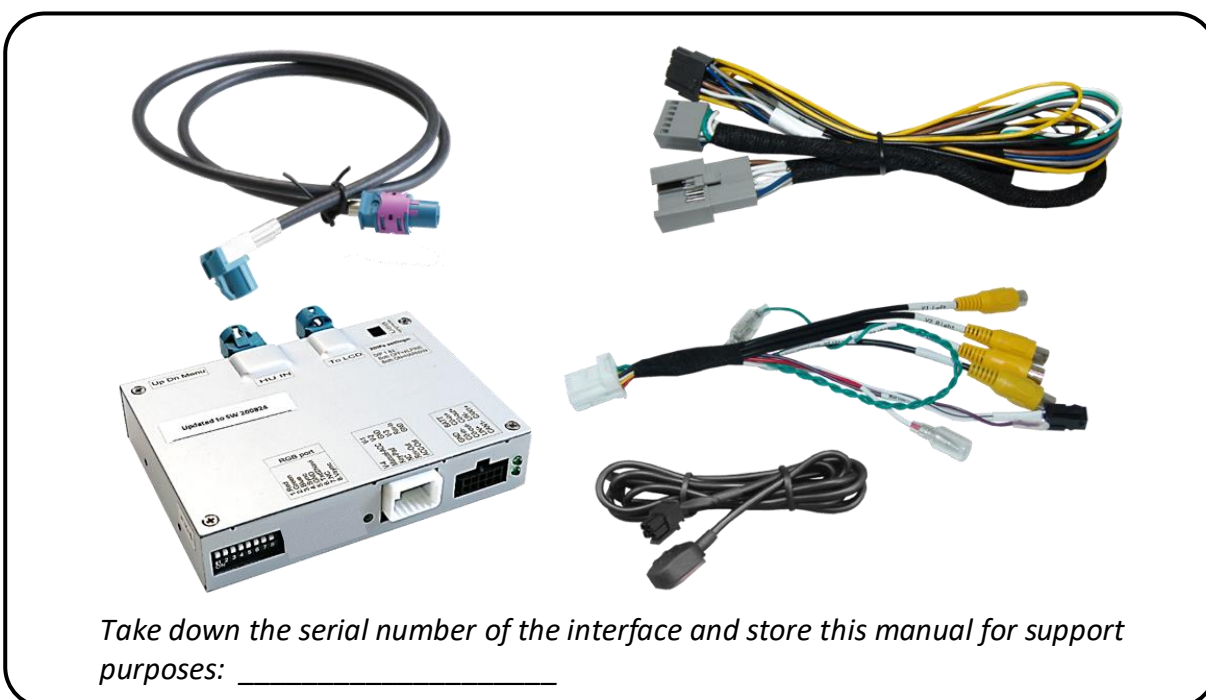
Changes/updates of the vehicle's software can cause malfunctions of the interface. Up to one year after purchase we offer free software-updates for our interfaces. To receive a free update, the interface has to be sent in at own cost. Wages for de-and reinstallation and other expenditures involved with the software-updates will not be refunded.

1. Prior to installation

Read the manual prior to installation. Technical knowledge is necessary for installation. The video interface's place of installation must be free of moisture and away from heat sources.

Before the final installation in the vehicle of the video sources, we recommend a test-run to ensure the compatibility of vehicle and interface. Due to changes in the production of the vehicle manufacturer there's always a possibility of incompatibility.

1.1. Delivery contents

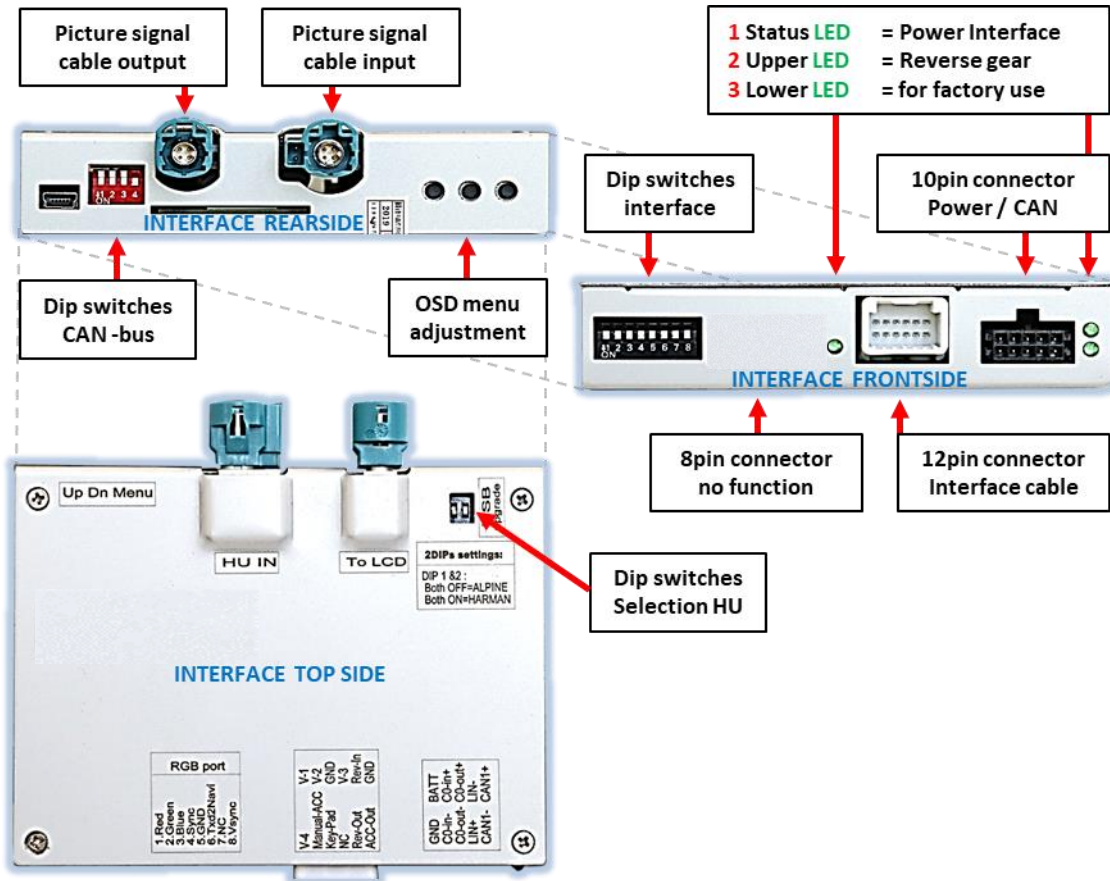


1.2. Checking the compatibility of vehicle and accessories

Requirements		
Brand	Compatible vehicles	Compatible systems
Porsche	Panamera (971) since model year 2017	PCM 4.1 (Harman) with 12.3inch monitor
	911 (992) since model year 2019 Cayenne E3 (PO536) since model year 2018 Cayenne Coupé since model year 2019 Macan since model year 2019 Taycan since model year 2019	PCM 5.0 (Alpine) with 12.3inch monitor
	911 (992) since model year 2022	PCM 6.0 (Aptiv/Delphi) with 12.3inch monitor
Limitations:		
<i>Video only</i>		
The interface inserts ONLY video signals into the infotainment. For inserting Audio signals either the possibly existing factory audio-AUX-input or a FM-modulator can be used. If 2 audio sources shall be connected to the infotainment, an additional electronic is necessary to switch them.		
<i>Factory rear-view camera</i>		
Automatically switching-back from inserted video to factory rear-view camera is only possible while the reverse gear is engaged. To delay the switch-back an additional electronic part is required.		
<i>After market front camera</i>		
The front camera will automatically be switched for 10 seconds after disengaging the reverse gear. A manually front camera switching is possible by external keypad.		
<i>Guidelines and PDC</i>		
Displayed guidelines and optical PDC are not available in all vehicles.		
<i>Video input signal</i>		
Only NTSC video sources compatible		

1.3. Boxes and connectors – video interface

The video-interface converts the video signals of connected after-market sources in a factory monitor compatible picture signal which is inserted in the factory monitor, by using separate trigger options. Further it reads the vehicle's digital signals out of the vehicle's CAN-bus and converts them for the video interface.



1.4. Settings - 8 Dip switches (black)

Some settings have to be selected by the dip-switches on the video interface. Dip position down is ON and position up is OFF.



Dip	Function	ON (down)	OFF (up)
1	Front camera	enabled*	disabled
	Power supply output (red wire)	+12V (max. 3A) when reverse gear is engaged incl. delay for 10 seconds and +12V by manual switching to front camera by keypad	+12V ACC out
2	CVBS Video 1-input	enabled	disabled
3	CVBS Video 2-input	enabled	disabled
4	No function		set to OFF
5	Rear-view cam type	after-market	factory or none
6	guidelines	enabled	disabled
7	Monitor adjustment	try both dip switch settings (ON/OFF)	try both dip switch settings (ON/OFF)
8	Factory PDC	Camera and PDC**	only camera



In case of a non-optimal displayed picture with the mentioned dip settings of dip 7, we recommend to try the other dip switch setting.

After each Dip-switch-change a power-reset of the Video interface has to be performed!

*The front camera will automatically be switched for 10 seconds after disengaging the reverse gear.



**** A correct display of the PDC is only possible if it is by factory displayed on the **RIGHT** side of the monitor.**

See the following chapters for detailed information.

1.4.1. Activating the front camera (dip 1)

If set to ON, the interface switches for 10 seconds from the rear-view camera to the front camera input after having disengaged the reverse gear, depending on the menu adjustments. In addition, a manual switch-over to the front camera input is possible via keypad (short press) from any image mode.

Note: Description of the power supply output: see chapter “Power supply output for front cam”.

1.4.2. Enabling the interface's video inputs (dip 2-3)

Only the enabled video inputs can be accessed by switching through the interface's video sources. It is recommended to enable only the required inputs. So the disabled inputs will be skipped while switching through the video interfaces inputs.

1.4.3. Rear-view camera setting (dip 5)

If set to OFF, the interface switches to factory picture while the reverse gear is engaged to display factory rear-view camera or factory optical park system picture.

If set to ON, the interface switches to its rear-view camera input while the reverse gear is engaged.

1.4.4. Activating the guide lines (dip6)

If set to ON, the guide-lines will be shown on the display.

If set to OFF, the guide lines won't be visible on the display.

1.4.5. Monitor selection (Dip 7)

Dip 7 customizes the monitor-specific video settings which sometimes even vary within head units of the same version, caused by different monitor specifications. If one dip position doesn't give a satisfying picture, try the other setting while a working video source is connected to the chosen input of the interface. If there is no change of picture visible after having changed the setting, retry and disconnect the 6pin plug at the interface box between every change of the dip setting.

1.4.6. Activation of the factory PDC display (Dip 8)

Dip 8 is used to switch between image formats of front and rear camera and to display the factory PDC (if available) as „picture in picture“ in combination with the camera image.



Note: A correct display of the PDC is only possible if the PDC is by factory displayed on the **right** side of the monitor.

Note: If there is no communication between interface and the vehicle's CAN-bus (several vehicles aren't compatible), the optical **PDC and the reverse gear guide-lines** can't be shown during the vehicle's operation, even if they once appear after having switched the system to powerless!

Dip switch 4 is out of function and has to be set to OFF.

1.5. Settings of the 4 Dip switches (CAN functions – red)

Dip position down is ON and position up is OFF.



Dip	Funktion	ON (unten)	OFF (oben)
1	Maual selection of the Head Unit System (only possible if dip2= OFF)	Harman	Alpine, Aptiv/Delphi
2	Automatic recognition of the head unit system	enabled	disabled (with manual selection of the Head Unit via di1)
3	No function		Set to OFF
4	No function		Set to OFF

1.6. Settings of the 2 Dip switches (selection head-unit - black)

The 2 dip switches on the upper side of the interface box are used to select the head unit.

Dip position up is ON and position down is OFF.



Fahrzeug/Navigation	Dip 1	Dip 2
PCM 4.1 (Harman)	ON	ON
PCM 5.0 (Alpine)	OFF	OFF
PCM 6.0 (Aptiv/Delphi)	OFF	ON

Note!
In case of black or unsatisfying picture try all dip switch combinations

After each Dip-switch-change a power-reset of the video interface has to be performed!

2. Installation

To install the interface, first switch off the ignition and disconnect the vehicle's battery. Please read the owner's manual of the car, regarding the battery's disconnection! If required, enable the car's Sleep-mode (hibernation mode)
In case the sleep-mode does not succeed, the disconnection of the battery can be done with a resistor lead.

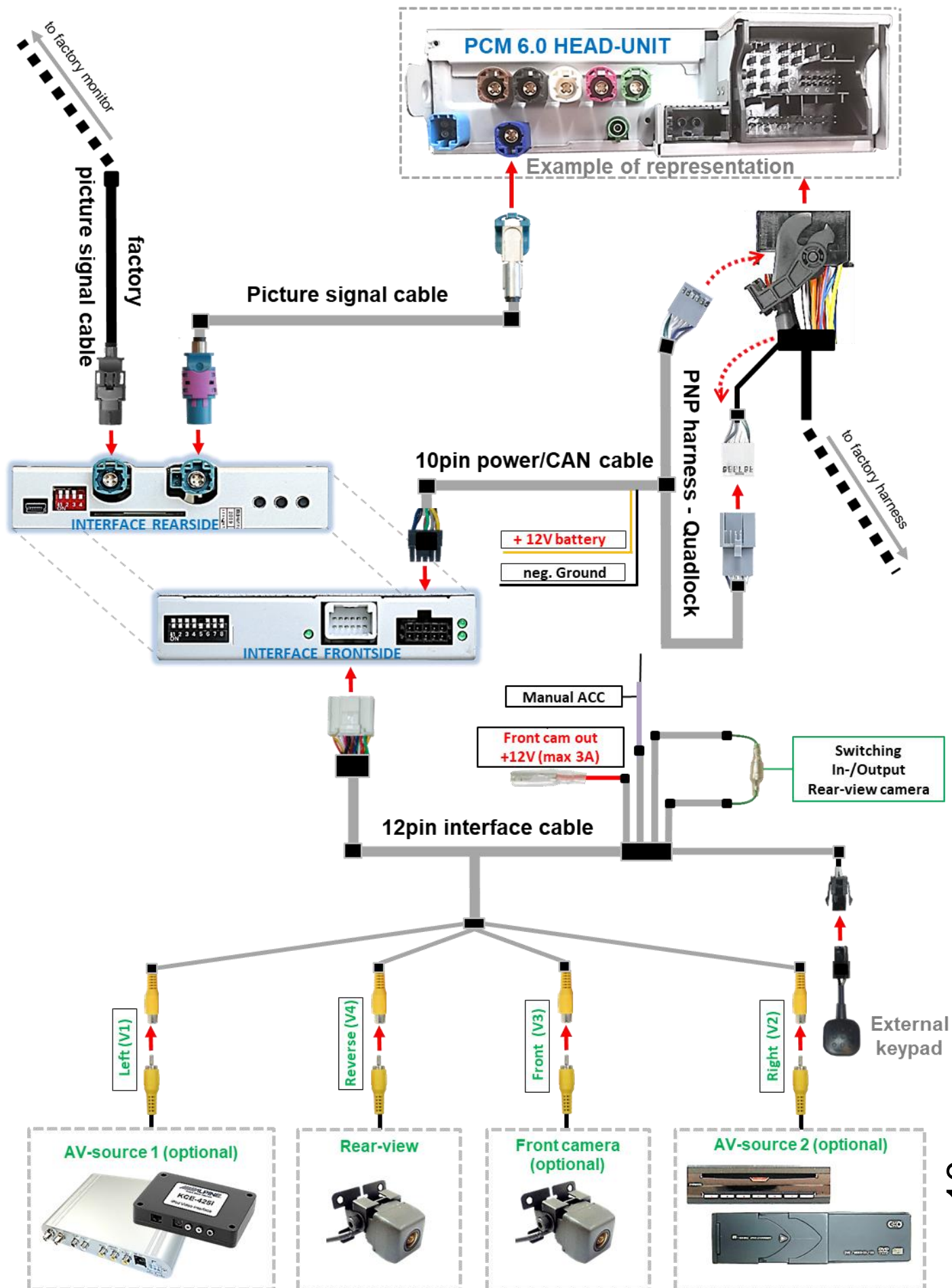
As with any installation of retrofit equipment, a stand-by test is necessary after the installation of the video interface, to ensure that the unit also switches off after reaching the vehicle's sleep mode.

Before the final installation, we recommend a test-run of the interface. Due to changes in the production of the vehicle manufacturer, there's always the possibility of incompatibility.

2.1. Place of connection

The interface is supposed to be installed at a suitable location behind the vehicle's head-unit.

2.2. Connection schema

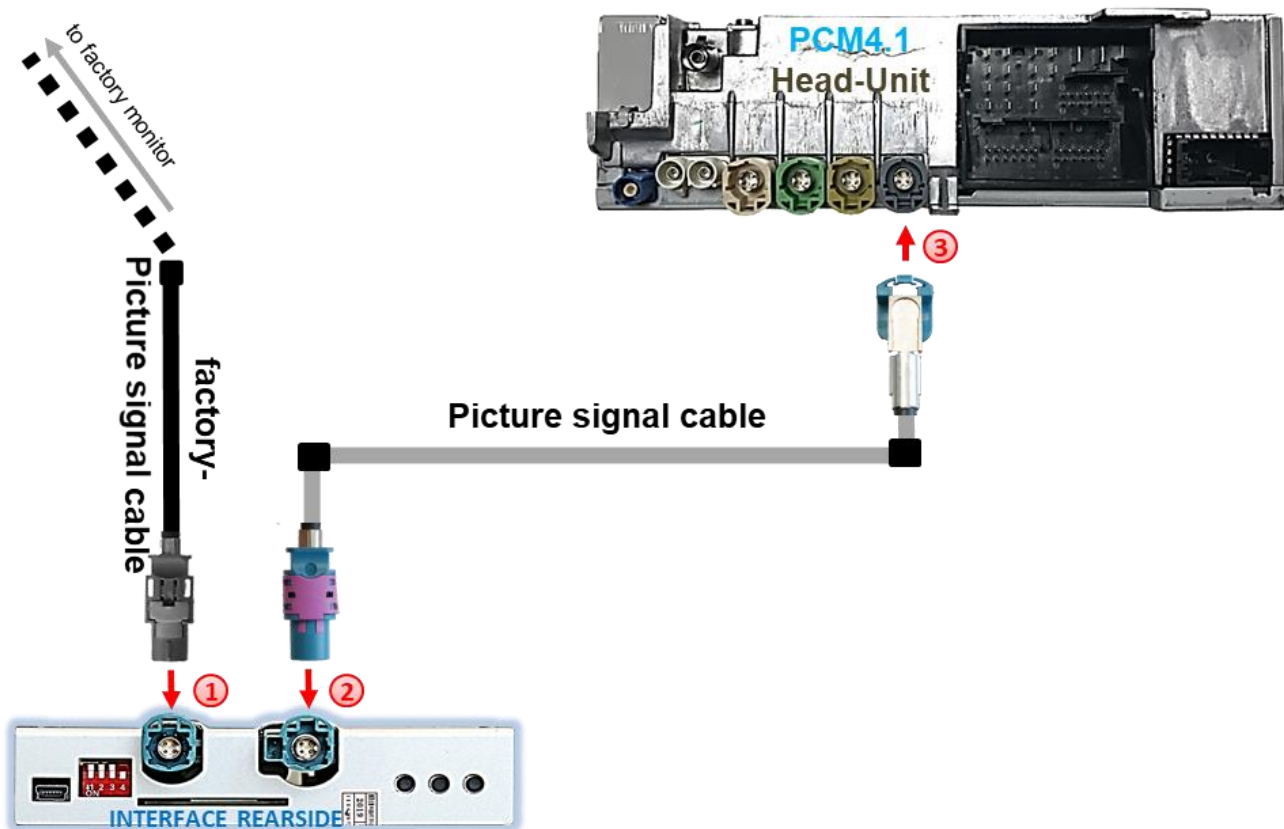


2.3. Connection - factory head-unit

Remove the head unit

2.3.1. Connection – picture signal cable

2.3.1.1. Vehicles with PCM 4.1



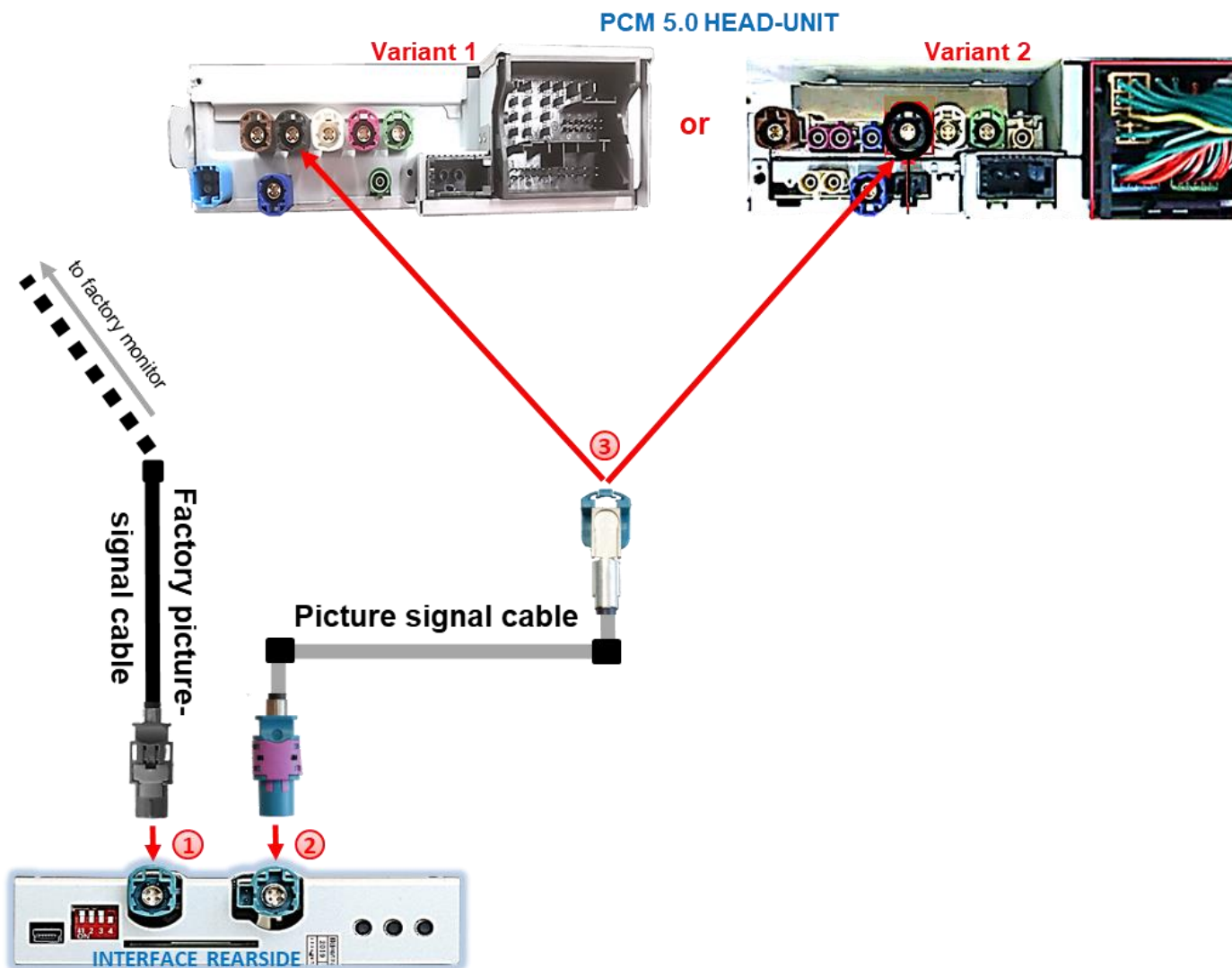
- ① Disconnect the **grey female HSD connector** (colours may vary) at the rear-side of the head unit and connect it to the waterblue coloured male HSD connector „**TO LCD**“ of the video interface.
- ② Connect the female non-angled waterblue coloured HSD connector of the enclosed picture signal cable to the waterblue coloured HSD+2 connector „**HU IN**“ of the video interface.
- ③ Connect the opposite female angled purple HSD connector of the enclosed picture signal cable to the previously become free HSD connector of the head unit



Note: Depending on the installation conditions, the enclosed picture signal cable may also be mounted upside down, concerning it's HSD connectors . However, the connection must only be made at the head unit!

2.3.1.2. Vehicles with PCM 5.0

There may be 2 PCM 5.0 head unit variants which differ in their connectors on the rear-side. In both cases, the picture signal cable must be connected to the black HSD connector of the head unit.

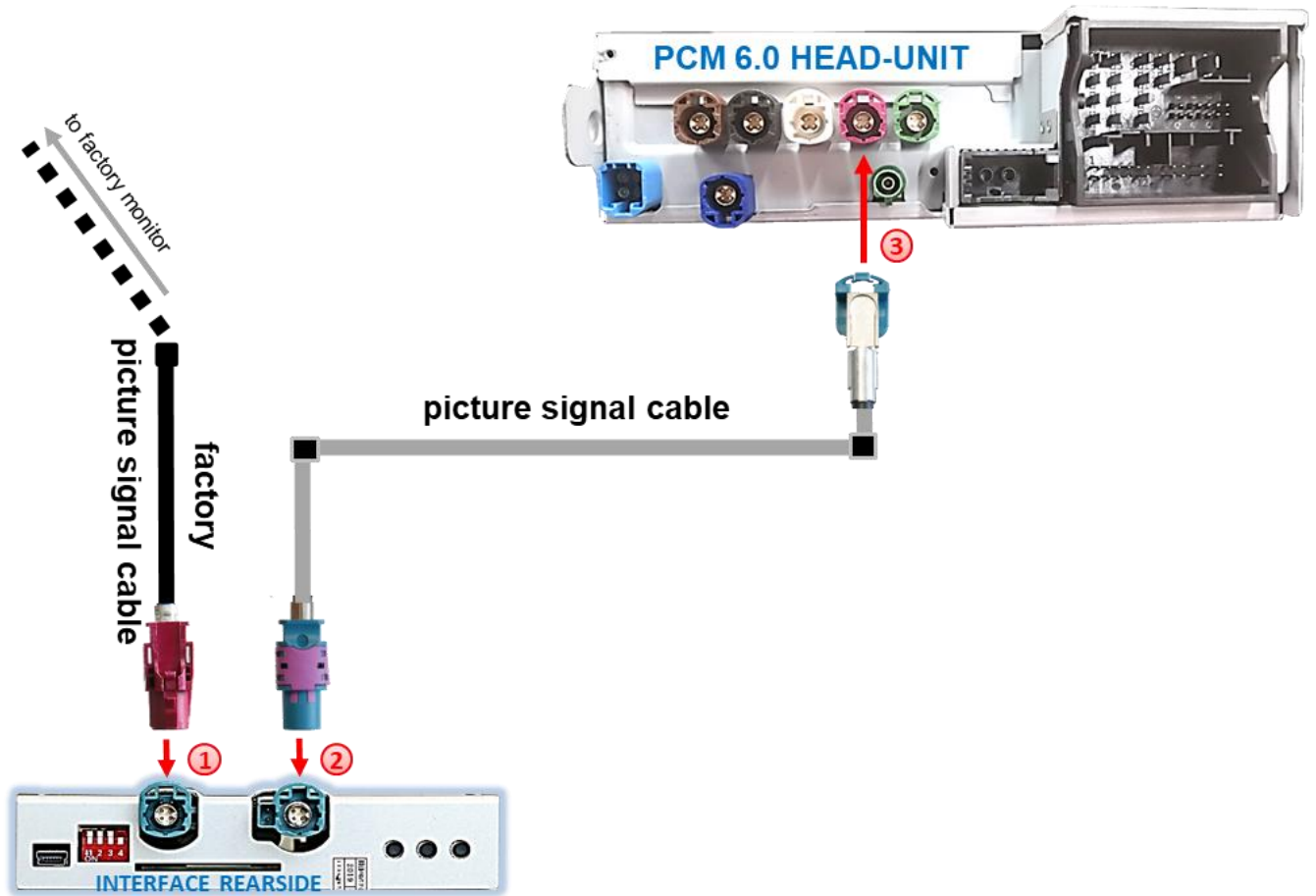


- ① Disconnect the **black** female HSD connector (colours may vary) at the rear-side of the head unit and connect it to the waterblue coloured male HSD connector „**TO LCD**“ of the video interface.
- ② Connect the female non-angled waterblue coloured HSD connector of the enclosed picture signal cable to the waterblue coloured HSD+2 connector „**HU IN**“ of the video interface.
- ③ Connect the opposite female angled waterblue coloured HSD connector of the enclosed picture signal cable to the previously become free HSD connector of the head unit.



Note: Depending on the installation conditions, the enclosed picture signal cable may also be mounted upside down, concerning it's HSD connectors. However, the connection must only be made at the head unit!

2.3.1.3. Vehicles with PCM 6.0



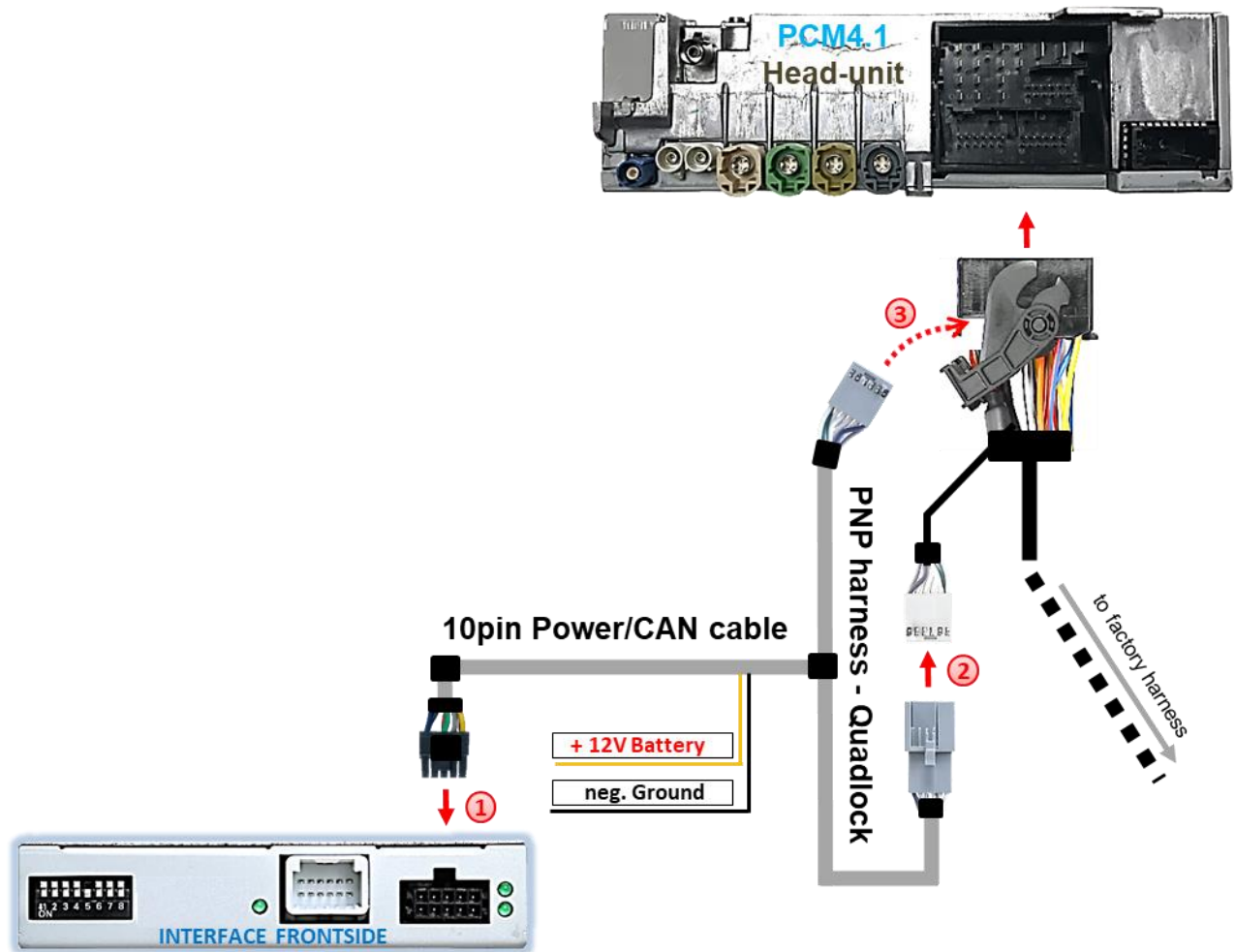
- 1 Disconnect the female **bordeaux** coloured female HSD connector (colours may vary) at the rear-side of the head unit and connect it to the waterblue coloured male HSD connector „TO LCD“ of the video interface.
- 2 Connect the female non-angled waterblue coloured HSD connector of the enclosed picture signal cable to the waterblue coloured HSD+2 connector „HU IN“ of the video interface.
- 3 Connect the opposite female angled waterblue HSD connector of the enclosed picture signal cable to the previously become free male **bordeaux** coloured HSD connector of the head-unit.



Note: Depending on the installation conditions, the enclosed picture signal cable may also be installed upside down, concerning the HSD connectors. However, its' connection must only be made at the head unit!

2.3.2. Connection – Quadlock – CAN

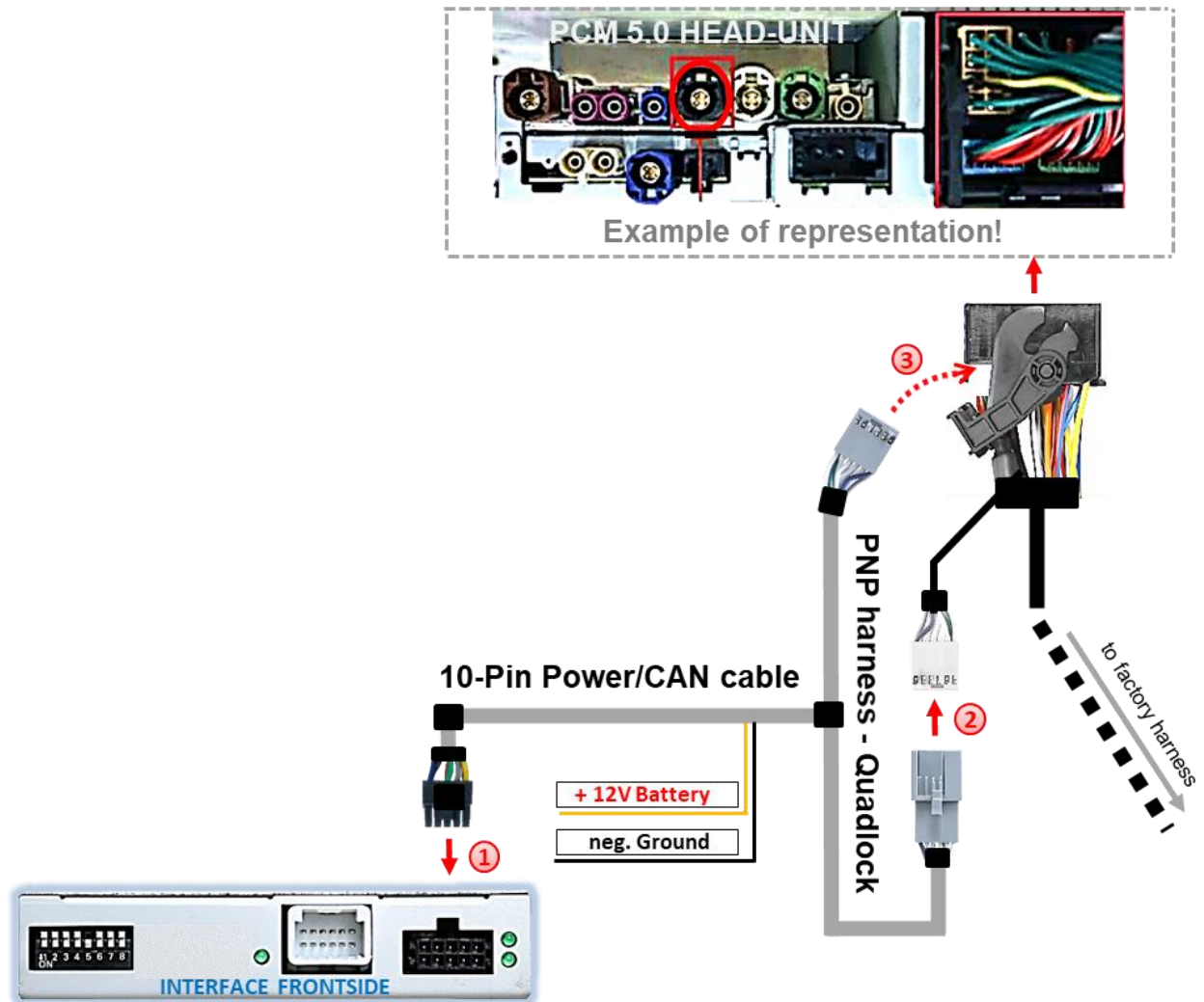
2.3.2.1. Connection - Quadlock – CAN-PCM 4.1



- 1 Connect the 10pin power/CAN cable's female 10pin connector to the 10pin connector of the video interface.
- 2 Disconnect the female Quadlock connector of the vehicle harness from the rear-side of the head-unit and connect the previously clipped out female 12pin connector to the grey coloured male 12pin connector of the PNP harness.
- 3 Clip in the grey coloured female 12pin connector of the PNP harness in the previously become free position of the female Quadlock connector.

After that, finish the Quadlock reconnection at the rear-side of the head-unit.

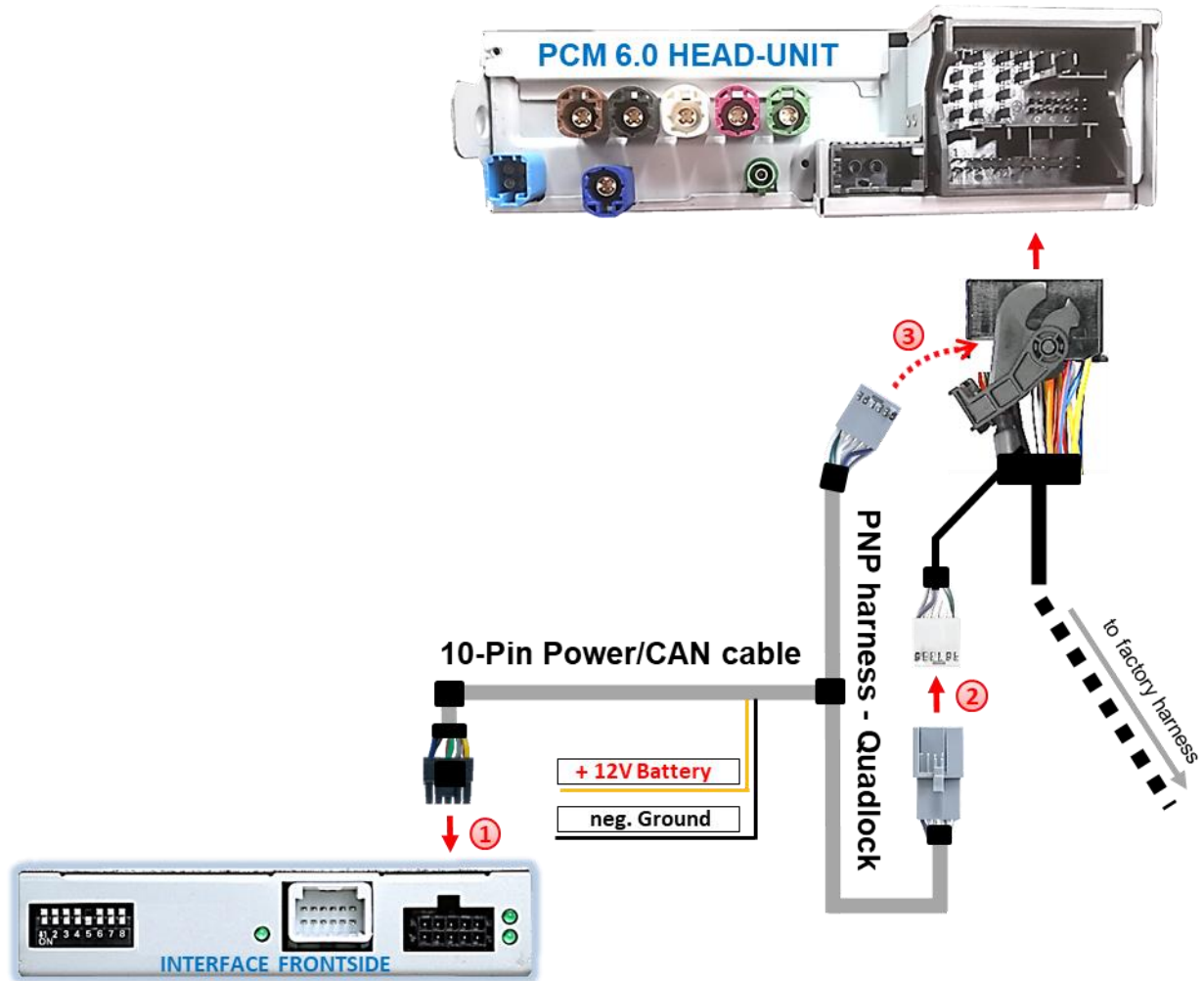
2.3.2.2. Connection - Quadlock – CAN-PCM 5.0



- ① Connect the 10pin power/CAN cable's female 10pin connector to the 10pin connector of the video interface.
- ② Disconnect the female Quadlock connector of the vehicle harness from the rear-side of the head-unit and connect the previously clipped out female 12pin connector to the grey coloured male 12pin connector of the PNP harness.
- ③ Clip in the grey coloured female 12pin connector of the PNP harness in the previously become free position of the female Quadlock connector.

After that, finish the Quadlock reconnection at the rear-side of the head-unit.

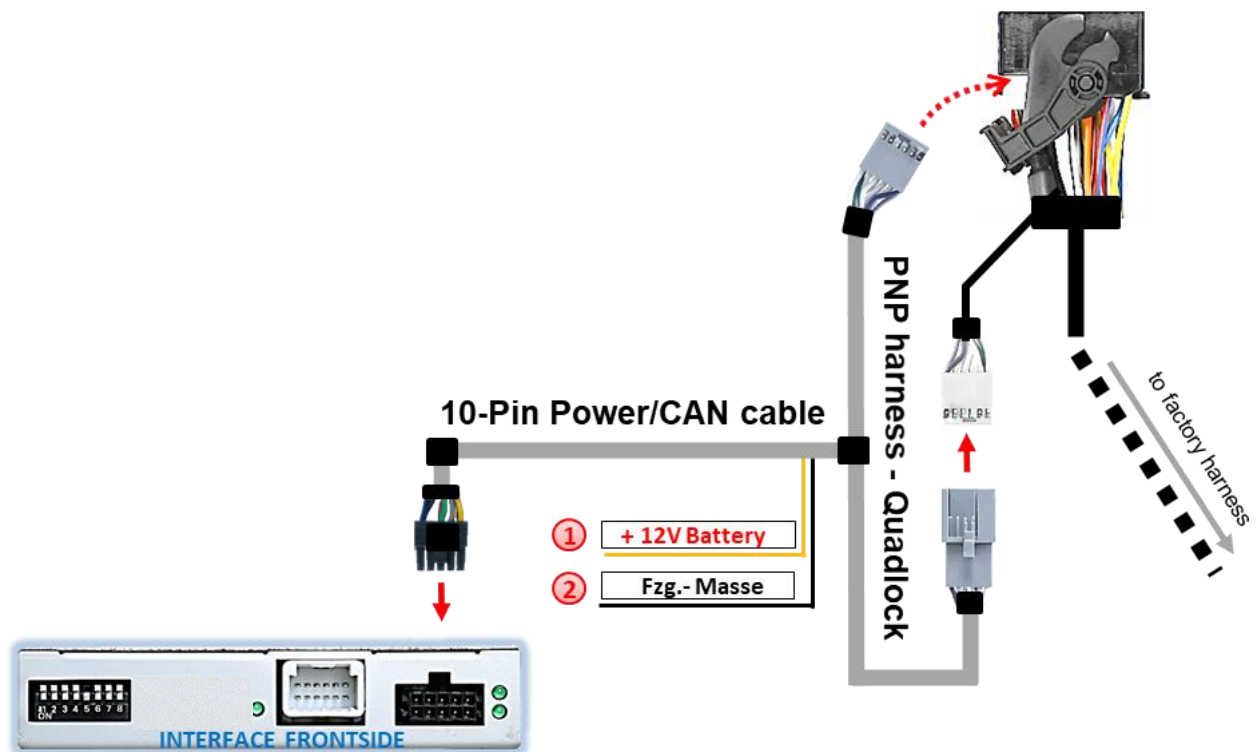
2.3.2.3. Connection - Quadlock – CAN-PCM 6.0



- ① Connect the 10pin power/CAN cable's female 10pin connector to the 10pin connector of the video interface.
- ② Disconnect the female Quadlock connector of the vehicle harness from the rear-side of the head-unit and connect the previously clipped out female 12pin connector to the grey coloured male 12pin connector of the PNP harness.
- ③ Clip in the grey coloured female 12pin connector of the PNP harness in the previously become free position of the female Quadlock connector.

After that, finish the Quadlock reconnection at the rear-side of the head-unit.

2.3.3. Connection - Power



- 1 Connect the single yellow wire of the 10pin power/CAN cable to +12V permanent and stabile power supply.
- 2 Connect the single black wire of the 10pin power/CAN cable to the vehicle's negative ground.



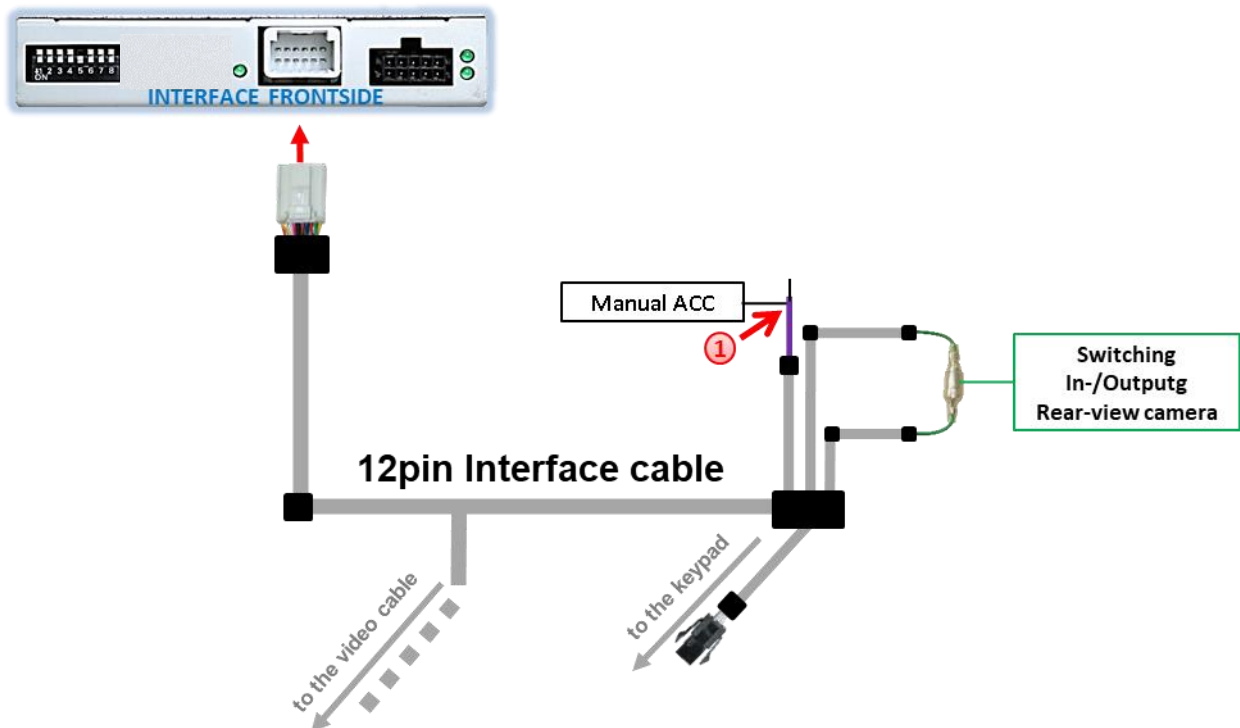
Check 1

Exceptionally, the GM LAN communication may not succeed in all vehicles! If, after connecting the PNP harness, no interface LED lightens up while the ignition is turned on, the analog power supply needs to be done! (see following chapter)

Check 2

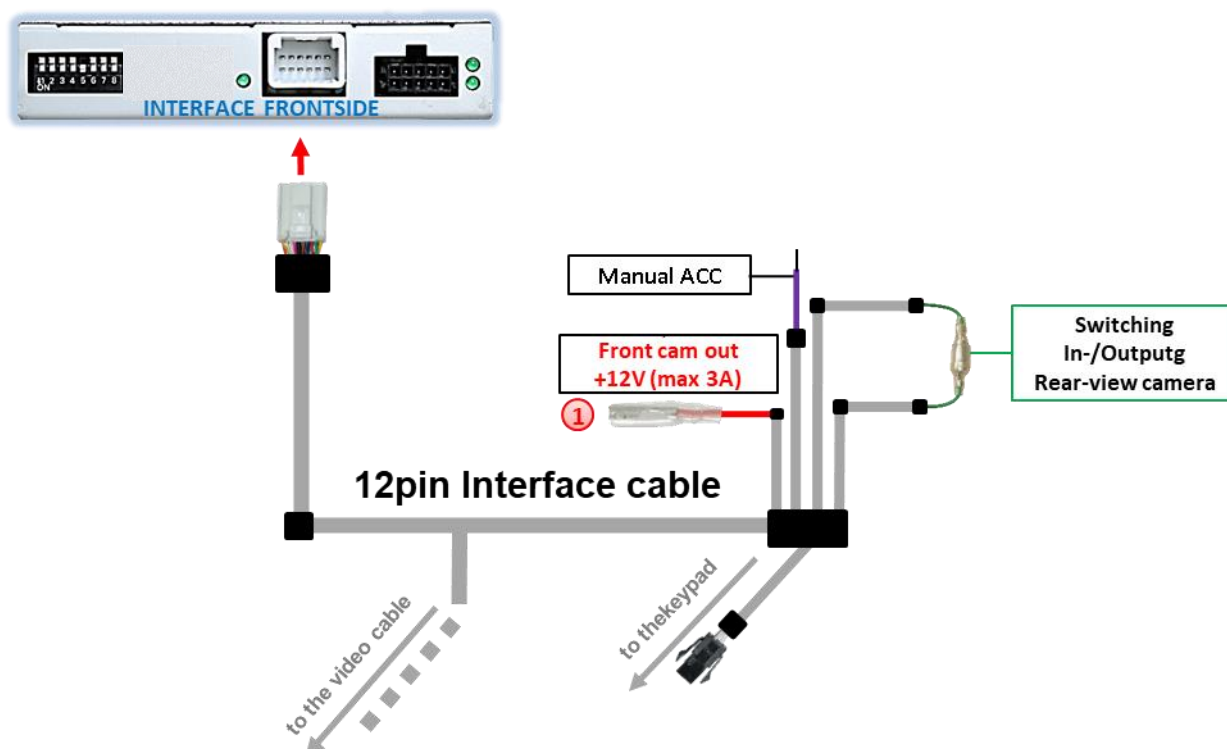
Exceptionally, the power supply to the video interfaces may not be interrupted after switching to the vehicle's sleep mode. If the interface LEDs continue to shine even in the vehicle's sleep mode, please contact the support!

2.3.4. Analogue power supply



- 1 If, after connecting the PNP harness, no interface LED lightens up while the ignition is turned on, the purple coloured wire **Manual ACC** of the 12pin interface cable has to be connected additionally to **ACC** or **S-contact terminal 86s +12V** (e.g. glove compartment illumination).

2.4. Power supply output for front cam



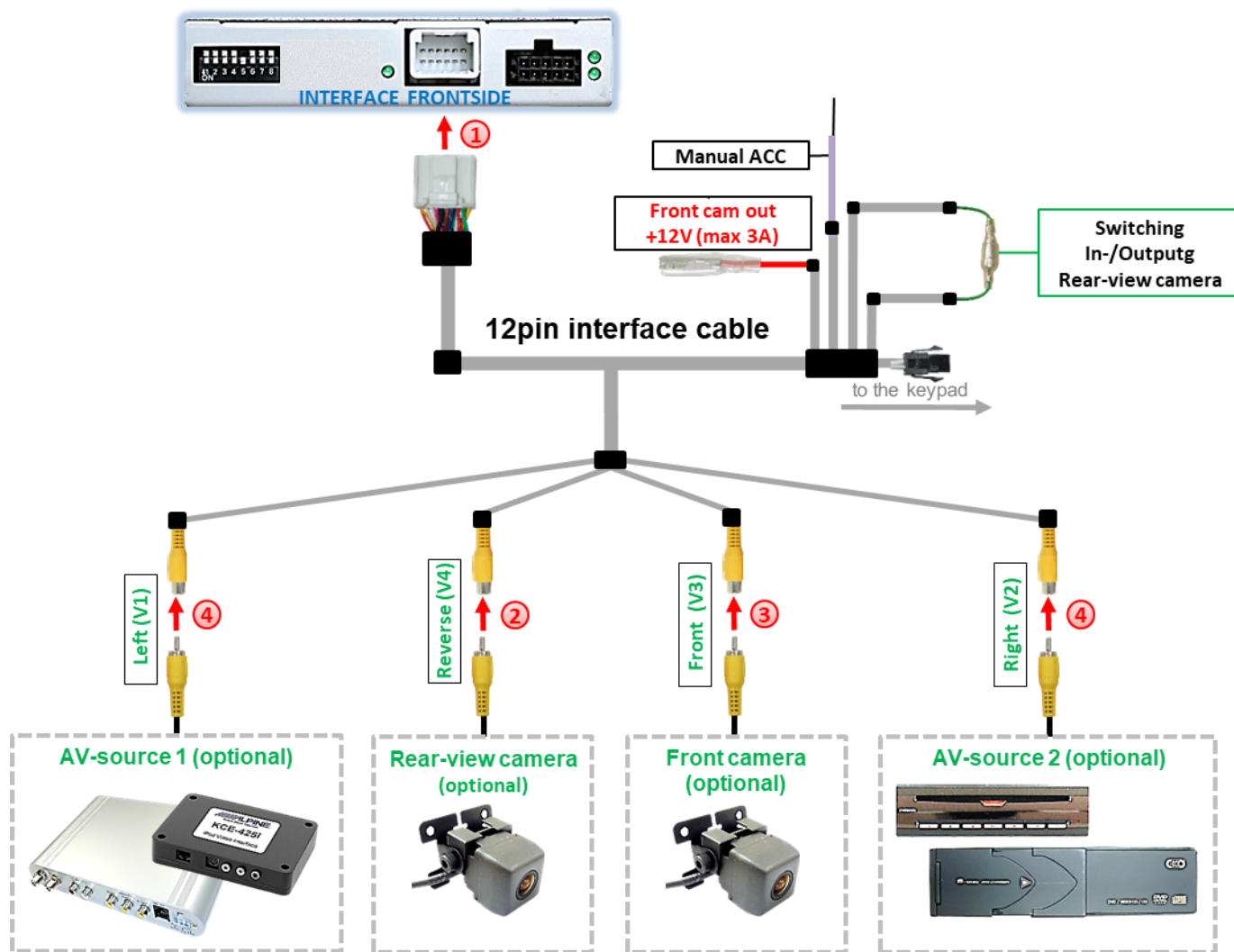
- ① The red power supply output **Front cam out +12V (max 3A)** can be used to power a front cam with dip switch 1 (of the black 8 dips) to ON.

Dip	Function
Dip 1 ON	+12V (max. 3A) when reverse gear is engaged incl. 10 seconds delay after reverse gear is disengaged and +12V by manual switching to front camera by keypad (short press)
Dip 1 OFF	+12V ACC

2.5. Connection - video sources

It is possible to connect an after-market rear-view camera, an after-market front camera and two more video sources to the video-interface.

Before a final installation of the video sources, we recommend a test-run to ensure the compatibility of vehicle and interface. Due to changes in the production of the vehicle manufacturer there's always a possibility of incompatibility.

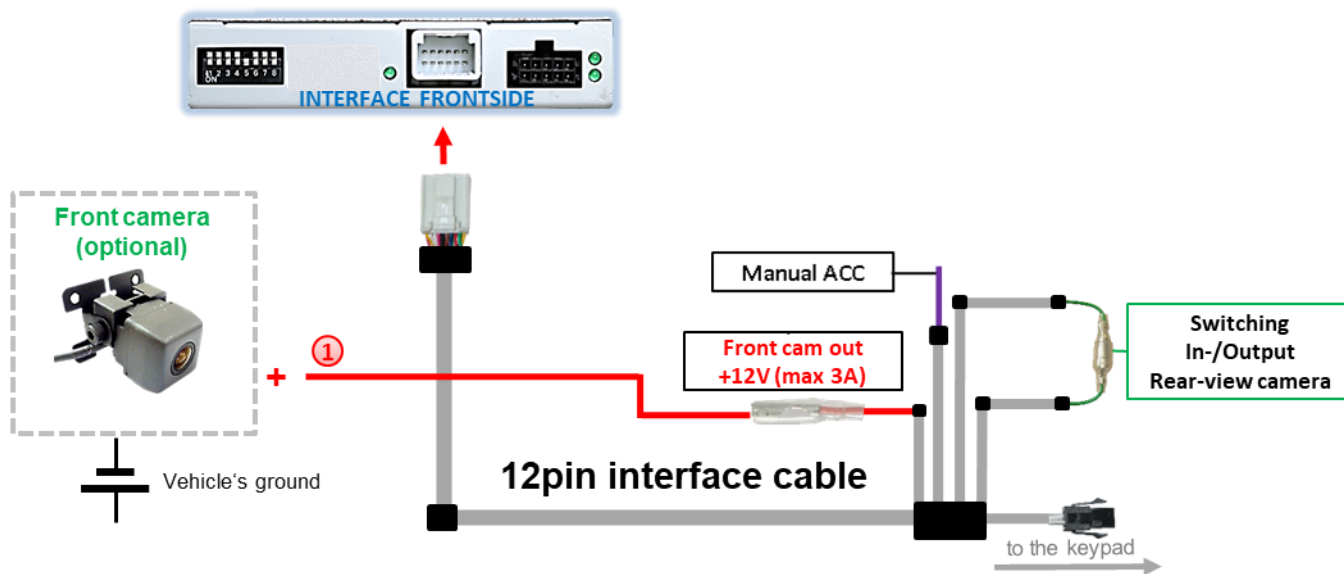


- 1 Connect the 12pin interface cable's female 12pin connector to the male 12pin connector of the video-interface.
- 2 Connect the video RCA of the Rear-view camera to the 12pin interface cable's female RCA connector „Reverse V4“.
- 3 Connect the front camera's video RCA connector to the 12pin interface cable's female RCA connector „Front V3“.
- 4 Connect the video RCA of the AV source 1 and 2 to the 12pin interface cable's female RCA connector “Left (V1)” and “Right (V2)”.

2.5.1. Audio-insertion

This interface is only able to insert video signals into the factory infotainment. If an AV-source is connected, the audio insertion has to be done by the factory audio AUX input or an FM-modulator. The inserted video-signal can be activated simultaneously to each audio-mode of the factory infotainment. If 2 AV sources shall be connected to the infotainment, additional electronic is necessary to switch the audio signals.

2.5.2. After-market front camera



- ① The red power supply output **Front cam out +12V (max 3A)** can be used to power a front camera. If Dip 1 is set to ON (black 8 dips), the power supply output gives +12V (max 3A) when reverse gear is engaged and additionally for 10 seconds after the reverse gear has been disengaged.

Note: In addition, a manual switch-over to the front camera input is possible via keypad (short press) from any image mode. The power supply output gives +12V then, as well (if Dip 1 is set to ON and the front camera input is selected).

Attention: A long press of the external keypad push button will switch the interface to the next source.

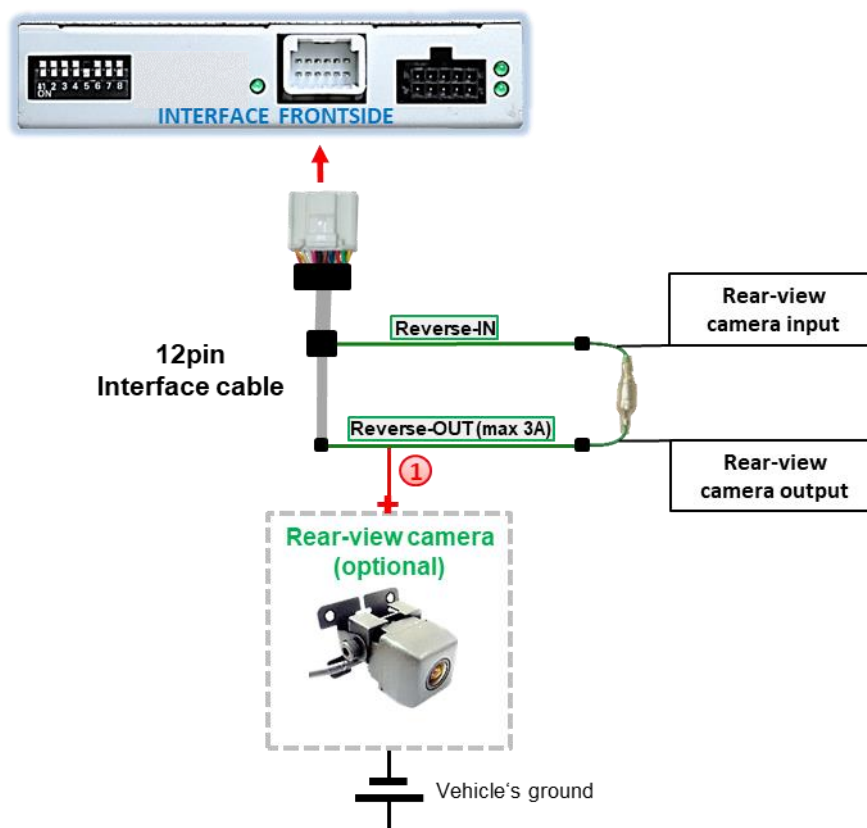
2.5.3. After-market rear-view camera

Some vehicles have a different reverse gear code on the CAN-bus which the video-interface is not compatible with. Therefore, there are two different ways of installation. If the video interface receives a signal of the reverse gear, the green wire “**Reverse-OUT**” of the 12pin cable should carry +12V while the reverse gear is engaged.

Note: Do not forget to set video interface’s dip5 to ON before testing.

2.5.3.1. Case 1: Interface receives the reverse gear signal

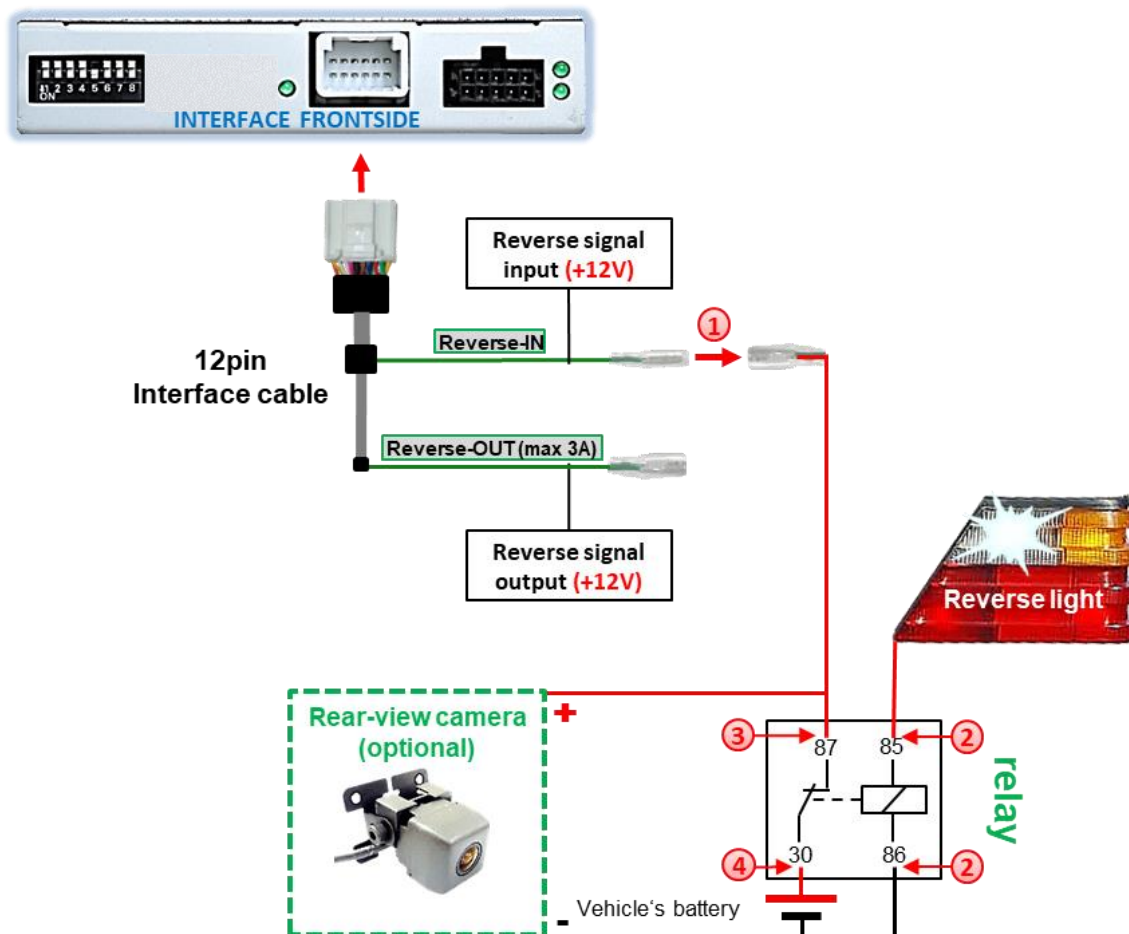
If the interface delivers +12V on the green output wire of the 12pin interface cable while reverse gear is engaged, the video interface will automatically switch to the rear-view camera input “**Camera IN**” while the reverse gear is engaged.



- 1 Additionally, the +12V (max. 3A) power supply for the rear-view camera can be taken from the green wire of the 12pin interface cable.

2.5.3.2. Case 2: Interface does not receive the reverse gear signal

If the video interface does not deliver +12V on the green wire of the 12pin cable when reverse gear is engaged (not all vehicles are compatible), an external switching signal from the reverse gear light is required. As the reverse gear light's power supply isn't voltage-stable all the time, an ordinary open relay (e.g. AC-RW-1230 with wiring AC-RS5) or filter (e.g. AC-PNF-RVC) is required. The diagram below shows the connection type of the relay.

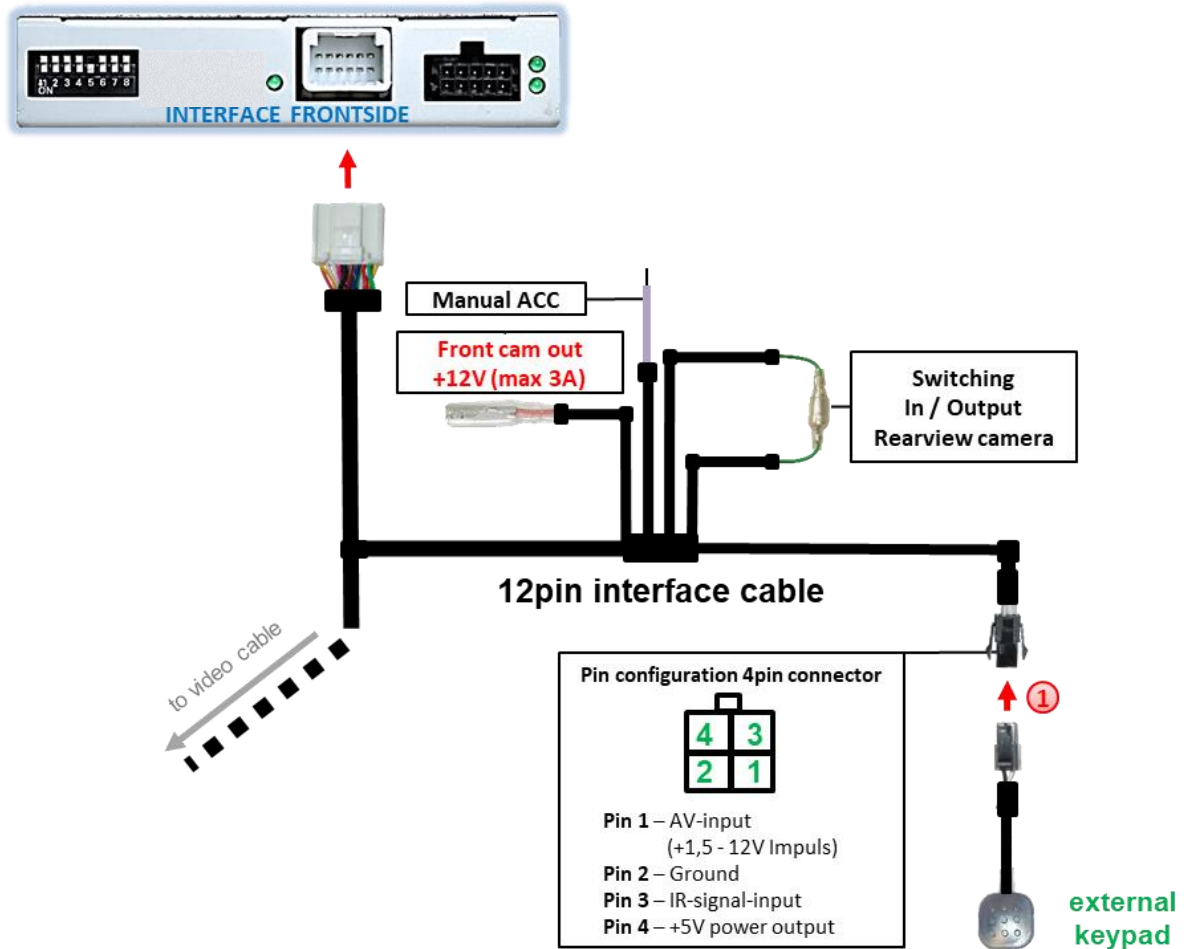


- ① Disconnect the green cable's preconnected male- and female connectors of the 12pin interface cable and connect the green input cable "Reverse-IN" to the output connector (87) of the relay.

Note: Last but not lot least to avoid short circuits, the best solution should be, to crimp a male 4mm connector to the relay's output cable and connect it to the green cable's female 4mm connector. The output-cable "Reverse-OUT" remains disconnected as it's out of function.

- ② Connect the Reverse light's power-cable to coil (85) and the vehicle's ground to coil (86) of the relay.
- ③ Connect the output connector (87) of the relay to the rear-view camera's power-cable, like you did it to the green "Reverse-IN" cable before.
- ④ Connect stabile and permanent +12V to the relay's input connector (30).

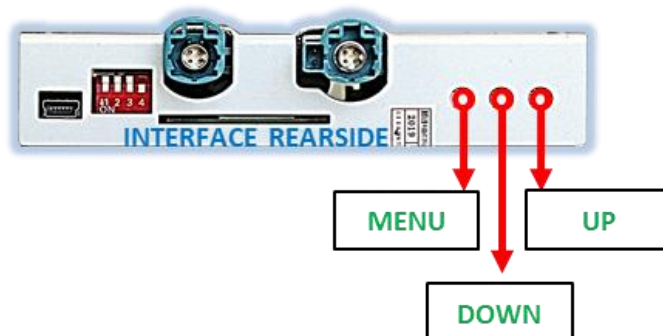
2.6. Connection - video-interface and keypad



- ① Connect the female 4pin connector of the keypad to the male 4pin connector of the 12pin interface cable.

Note: Even if switching through several video sources by the keypad mightn't be required, the invisible connection and availability is strongly recommended.

2.7. Picture settings

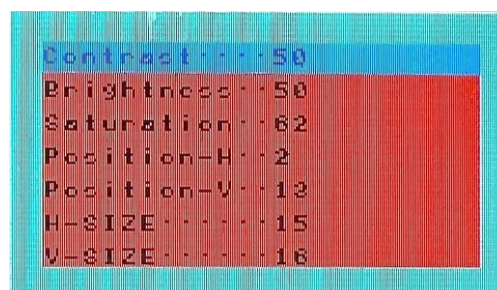


The picture settings are adjustable by the 3 push-buttons at the rear-side of the video-interface. Press the MENU button to open the OSD settings menu or to switch to the next menu item. Press UP and DOWN to change the selected value. The buttons are placed inside in the housing to avoid accidental changes during or after the installation. Picture settings must be done separately for all video inputs while the corresponding input is selected and visible on the monitor.

Note: The OSD menu is only shown when a working video source is connected to the selected video-input of the interface.

The following settings are available:

- Contrast
- Brightness
- Saturation
- Position H (horizontal picture position)
- Position V (vertical picture position)
- H-SIZE (horizontal picture size)
- V-SIZE (vertical picture size)



3. Interface operation

The interface's external keypad can be used to switch the enabled inputs. Even if not needed, the keypad should always remain connected to the video interface for support purposes.

➤ Long press of keypad (2-3 seconds)

By long pressing the external keypad (2-3 seconds), the video interfaces switches the input from the factory video to the inserted video sources. Each long press will switch to the next enabled input. Inputs which are not enabled will be skipped.

Note: The interface switches after releasing the switch (after long pressure).

➤ Short press of keypad (only if DIP 1 is set to ON)

By short pressing the external keypad, the video interfaces switches from the factory video to the front camera input and back to factory video.

4. Specifications

BATT/ACC range	7V - 25V
Stand-by power drain	8mA
Power	340mA @12V
Video input	0.7V - 1V
Video input formats	NTSC
Temperature range	-40°C to +85°C
Dimensions video-box	117 x 25 x 103 mm (W x H x D)

5. FAQ – Trouble shooting Interface functions

For any troubles which may occur, check the following table for a solution before requesting support from your vendor.

Symptom	Reason	Possible solution
No picture/black picture (factory picture).	Not all connectors have been reconnected to factory head-unit or monitor after installation.	Connect missing connectors.
	No power on CAN-bus box (all LED CAN-bus box are off).	Check power supply of CAN-bus box. Check CAN-bus connection of CAN-bus box.
	CAN-bus box connected to CAN-bus in wrong place.	Refer to the manual where to connected to the CAN-bus. If not mentioned, try another place to connect to the CAN-bus.
	No power on video-interface (all LED video-interface are off).	Check whether CAN-bus box delivers +12V ACC on red wire output of 8pin to 6pin cable. If not cut wire and supply ACC +12V directly to video-interface.
No picture/black picture/white picture (inserted picture) but factory picture is OK.	No picture from video source.	Check on other monitor whether video source is OK.
	No video-source connected to the selected interface input.	Check settings dips 1 to 3 of video interface which inputs are activated and switch to corresponding input(s).
	LVDS cables plugged in wrong place.	Double-check whether order of LVDS cables is exactly connected according to manual. Plugging into head-unit does not work when the manual says to plug into monitor and vice versa.
Inserted picture totally wrong size or position.	Wrong monitor settings of video-interface.	Try different combinations of dips 7 and 8 of video-interface. Unplug 6pin power after each change.
Inserted picture double or 4 times on monitor.		
Inserted picture distorted, flickering or running vertically.	Video sources output set to AUTO or MULTI which causes a conflict with the interfaces auto detection.	Set video source output fixed to PAL or NTSC. It is best to set all video sources to the same standard.
	If error occurs only after source switching: Connected sources are not set to the same TV standard.	Set all video sources to the same standard.
	Some interfaces can only handle NTSC input.	Check manual whether there is a limitation to NTSC mentioned. If yes, set source fixed to NTSC output.
Inserted picture b/w.	Picture settings have not been adjusted.	Use the 3 buttons and the interface's OSD to adjust the picture settings for the corresponding video input.
Inserted picture qual. bad.		
Inserted picture size slightly wrong.		
Inserted picture position wrong.		
Camera input picture flickers.	Camera is being tested under fluorescent light which shines directly into the camera.	Test camera under natural light outside the garage.
Camera input picture is bluish.	Protection sticker not removed from camera lens.	Remove protection sticker from lens.

Symptom	Reason	Possible solution
Camera input picture black.	Camera power taken directly from reverse gear lamp.	Use relay or electronics to "clean" reverse gear lamp power. Alternatively, if CAN-bus box is compatible with the vehicle, camera power can be taken from green wire of 6pin to 8pin cable.
Camera input picture has distortion.		
Camera input picture settings cannot be adjusted.	Camera input picture settings can only be adjusted in AV2 mode.	Set dip 3 of video-interface to ON (if not input AV2 is not already activated) and connect the camera to AV2. Switch to AV2 and adjust settings. Reconnect camera to camera input and deactivate AV2 if not used for other source.
Graphics of a car in camera input picture.	Function PDC is ON in the interface OSD.	In compatible vehicles, the graphics will display the factory PDC distance. If not working or not wanted, set interface OSD menu item UI-CNTRL to ALLOFF.
Chinese signs in camera input picture	Function RET or ALL is ON (function for Asian market) in the interface OSD.	Set interface OSD menu item UI-CNTRL to ALLOFF or PDCON.
Not possible to switch video sources by OEM button.	CAN-bus interface does not support this function for vehicle.	Use external keypad or cut white wire of 6pin to 8pin cable and apply +12V impulses for AV-switching.
Not possible to switch video sources by external keypad.	Pressed too short.	For video source switching a longer press of about 2.5 seconds is required.
	SW-version of interface does not support external keypad.	Use OEM-button or cut white wire of 6pin to 8pin cable and apply +12V impulses for AV-switching.
Interface does not switch to camera input when reverse gear is engaged.	CAN-bus interface does not support this function for the vehicles.	Cut the green wire of the 6pin to 8pin cable and apply +12V constant from reverse gear-lamp signal. Use relay to "clean" R-gear lamp power.
Interface switches video-sources by itself.	CAN-bus interface compatibility to vehicle is limited.	Cut the grey wire of 6pin to 8pin and isolate both ends. If problem still occurs, additionally cut the white wire of 6pin to 8pin cable and isolate both ends.

6. Technical Support

Please note that direct technical support is only available for products purchased directly from NavLinkz GmbH. For products bought from other sources, contact your vendor for technical support.

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