

r.LiNK-Interface

RL-PCM3-TF

Rear-view camera-input and video-in-motion compatible with Porsche vehicles with PCM 3 and PCM 3.1 navigation systems

Only for vehicles WITHOUT factory rear-view camera

Product features

- Plug and play interface
- Integrated into the vehicle infotainment
- Rear-view camera input (+ coding)
- Rear-view camera power (+12V max. 400mA)
- Video-in-motion
- Automatic switching to rear-view camera input
- Optionally coding of ParkAssistant to retrofit factory PDC

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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. This product should only be used while standing or 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. We offer free software-updates for our interfaces for one year after purchase. To receive a free update, the interface must be sent in at own cost. Labor cost for and other expenses 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 place of installation must be free of moisture and away from heat sources.

1.1. Delivery contents

Take down the SW-version and HW-version of the interface boxes, and store this manual for support purposes.

CAN-box
RLC-TV521
HW _____ SW _____



1.2. Check compatibility of vehicle and accessories

Requirements

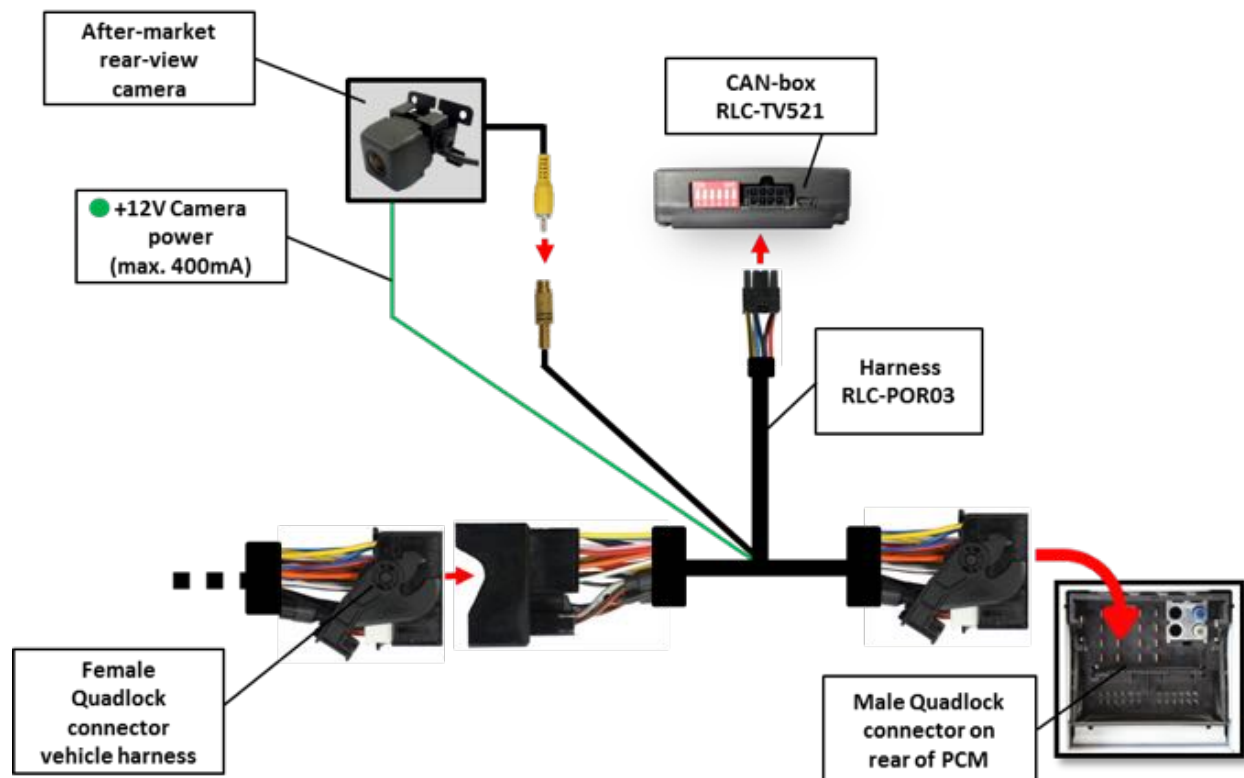
Vehicle Porsche Cayenne, Panamera, 911, Boxster, Cayman, Macan

Navigation PCM 3 (only Cayenne version) , PCM 3.1 (911, Boxster and Cayman only from software version 4.xx)

Limitations

Video-in-motion Internal DVD video cannot be watched!

2. Connection schema

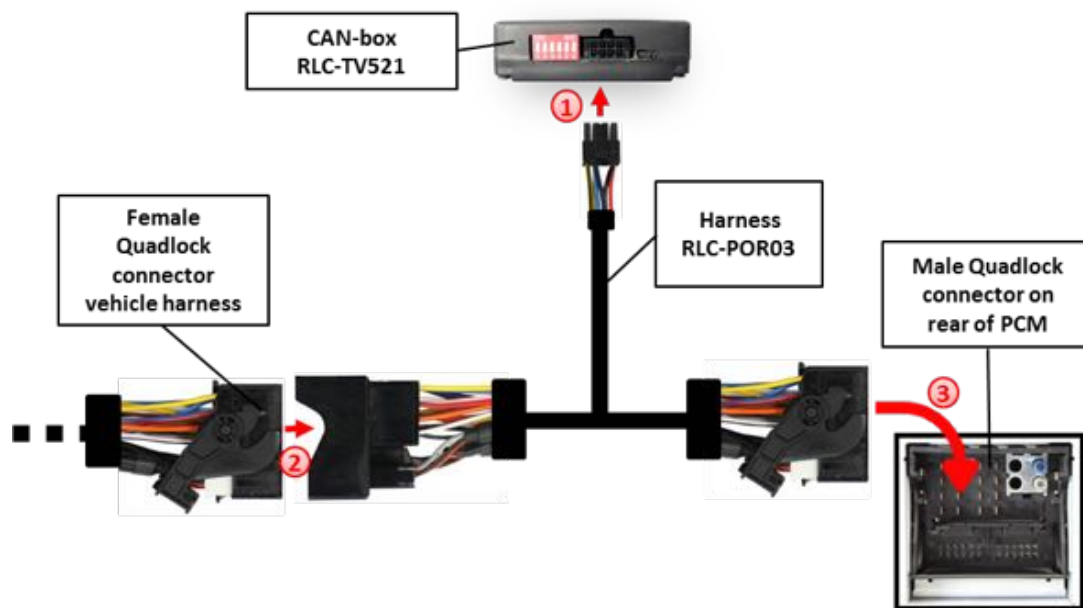


3. Installation

Switch off ignition and disconnect the vehicle's battery! If according to factory rules disconnecting the battery has to be avoided, it is usually sufficient to put the vehicle in sleep-mode. In case the sleep-mode does not show success, disconnect the battery with a resistor lead.

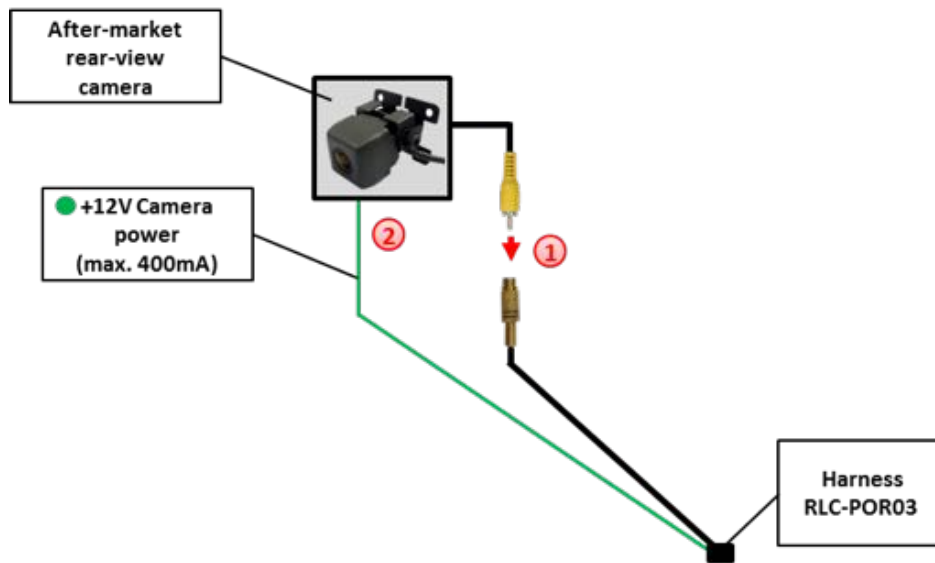
Place of installation is on rear of the head-unit.

3.1. Interconnecting CAN-Box, harness and factory navigation monitor



- ① Connect female 8pin Molex connector of harness RLC-POR03 to male 8pin Molex connector of CAN-box RLC-TV521.
- ② Transfer female Quadlock connector of vehicle harness from rear of the head-unit into male Quadlock connector of harness RLC-POR03.
- ③ Plug female Quadlock connector of harness RLC-POR03 into male Quadlock connector on the rear of the head-unit.

3.2. Connections to rear-view camera



- ① Connect the video RCA of the rear-view camera to the female RCA connector of harness RLC-POR03.
- ② Connect the green cable of harness RLC-POR03 to the camera power supply (+12V max 400mA). The green cable is high when reverse gear is engaged (if ignition is off, too). The power will be deactivated from a speed of 20 km/h.

3.3. Coding of the rear-view camera (only PCM3.1)



Steering-wheel buttons left



Steering-wheel buttons right

It is necessary to code the rear-view camera input of the PCM 3.1 to use it for an after-market rear-view camera.

1. Turn on ignition
2. Wait until the head-unit has booted
3. Press and hold steering-wheel button HASH KEY/MODE
4. Press and hold steering-wheel button ACCEPT (**observe the sequence!**)
5. Hold both buttons. During configuration the red and blue LED are blinking short inside the CAN-box (visible at the male 8pin Molex connector). The PCM makes a reset after 5-10 sec.
6. Disengage both steering-wheel buttons
7. The red and the blue LED inside the CAN-Box are glowing and the menu „Rear-view camera“ appears in the menu OPTION after a successful coding



3.3.1. Decoding of the rear-view camera (only PCM3.1)

It is possible to decode the coding of the rear-view camera input as follows:

1. Turn on ignition
2. Wait until the head-unit has booted
3. Press and hold steering-wheel button HASH KEY/MODE
4. Press and hold steering-wheel button HANG UP (**observe the sequence!**)
5. Hold both buttons. During configuration the red and blue LED are blinking inside the CAN-box (visible at the male 8pin Molex connector). The PCM makes a reset after 5-10 sec.
6. Disengage both steering-wheel buttons
7. The red and the blue LED inside the CAN-Box are glowing and the menu „Rear-view camera“ disappears in the menu OPTION after a successful decoding

3.4. Optionally coding of ParkAssistant to retrofit factory PDC (only PCM3.1)



Steering-wheel buttons left



Steering-wheel buttons right

It is necessary to code the ParkAssistant of the PCM 3.1 to retrofit factory PDC.

1. Turn on ignition
2. Wait until the head-unit has booted
3. Press and hold steering-wheel button BACK
4. Press and hold steering-wheel button ACCEPT (**observe the sequence!**)
5. Hold both buttons. During configuration the red and blue LED are blinking inside the CAN-box (visible at the male 8pin Molex connector). The PCM makes a reset after 5-10 sec.
6. Disengage both steering-wheel buttons
7. The red and the blue LED inside the CAN-Box are glowing and the menu „ParkAssistant“ appears in the menu OPTION after a successful coding



3.4.1. Decoding of the ParkAssistant (only PCM3.1)

It is possible to decode the ParkAssistant as follows:

1. Turn on ignition
2. Wait until the head-unit has booted
3. Press and hold steering-wheel button BACK
4. Press and hold steering-wheel button HANG UP (**observe the sequence!**)
5. Hold both buttons. During configuration the red and blue LED are blinking inside the CAN-box (visible at the male 8pin Molex connector). The PCM makes a reset after 5-10 sec.
6. Disengage both steering-wheel buttons
7. The red and the blue LED inside the CAN-Box are glowing and the menu „ParkAssistant“ disappears in the menu OPTION after a successful decoding

3.5. Alternatively coding and decoding of rear-view camera and ParkAssistant (e.g. if steering-wheel buttons not existing, only PCM3.1)

Alternatively to coding by steering-wheel buttons the coding and decoding of rear-view camera and ParkAssistant can be done by loose white cable in connection with dip 3 and 4 of CAN-box RLC-TV521.

| Dip | Function | ON | OFF |
|-------|------------------|--------|----------|
| Dip 3 | Rear-view camera | Coding | Decoding |
| Dip 4 | ParkAssistant | Coding | Decoding |

1. Turn on ignition
2. Wait until the head-unit has booted
3. Set dip 3 and dip 4 of CAN-box (depending on the desired coding/decoding)
4. Put +12V for 5 sec. to the white cable
5. During configuration the red and blue LED are blinking short inside the CAN-box (visible at the male 8pin Molex connector). The PCM makes a reset after 5-10 sec.
6. The red and the blue LED inside the CAN-Box are glowing and the menu „Rear-view camera“ respectively “ParkAssistant” appears in the menu OPTION after a successful coding (or disappears after successful decoding)



Note: After a coding or decoding another coding isn't possible within the next 60 seconds!

If there are factory-PDC existing in the car you have to set Dip 4 to ON while coding. If not the factory PDC will be decoded!

3.6. Coding and decoding of rear-view camera (only Porsche Cayenne with PCM3)

The rear-view camera coding and decoding can be done by loose white cable in connection with dip 3 of CAN-box RLC-TV521.

| Dip | Function | ON | OFF |
|-------|------------------|--------|----------|
| Dip 3 | Rear-view camera | Coding | Decoding |

1. Turn on ignition
2. Wait until the head-unit has booted
3. Set dip 3 of CAN-box (depending on the desired coding/decoding)
4. Put +12V for 5 sec. to the white cable
5. During configuration the red and blue LED are blinking short inside the CAN-box (visible at the male 8pin Molex connector). The PCM makes a reset after 5-10 sec.
6. The red and the blue LED inside the CAN-Box are glowing and the menu „Rear-view camera“ appears in the menu OPTION after a successful coding (or disappears after successful decoding)



Note: After a coding or decoding another coding isn't possible within the next 60 seconds!

4. Activation of the video-in-motion function

With dip1 to ON the video-in-motion function is activated permanently without disturbing the navigation performance.

5. Specifications

| | |
|-----------------------------------|-----------------|
| Operation voltage | 10.5 – 14.8V |
| Stand-by power drain | <2mA |
| Operation power drain | ~60mA |
| Power consumption | ~0,08W |
| Temperature range | -30°C to +80°C |
| Weight | 44g |
| Measurements (box only) W x H x D | 76 x 27 x 54 mm |

6. Technical support

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