

RVCLR-68B

**Rear-view camera-input
and
video-in-motion
for Landrover
touch-screen navigation systems
from model 2012-2015**

Only for vehicles WITHOUT factory rear-view camera

**ATTENTION! The Interface
is installed on the backside
of the monitor!!!**

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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 to display fixed menus or rear-view-camera video when the vehicle is moving, for example the MP3 menu for DVD upgrades.

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.



1.2. Check compatibility of vehicle and accessories


Requirements

Vehicle

2012 - 2015 LR2
 2012 - 2015 LR4
 2015 - 2015 New Discovery Sport
 2012 - 2015 Range Rover Evoque
 2012 - 2015 Range Rover Sport

Navigation

Touch-screen navigation system - version 3



Land Rover Touchscreen systems:

version I version II version III

1.3. Setting the dip switches of the CAN-box

Vehicle/ navigation	Dip 1	Dip 2	Dip 3	Dip 4	Dip 5	Dip 6
Video-in-motion permanent	ON	ON	OFF	OFF	ON	ON
Video-in-motion selective*	OFF	ON	OFF	OFF	ON	ON

* With dip1 to OFF the included green cable is used to activate the video-in-motion function

Note: Dip switch functions

Dip 1 – activation TV-free

Dip 2 – rear-view camera existing

Dip 3 – TV icon simulation

Dip 4 – no function

Dip 5 – CAN-bus termination resistor on the vehicle side

Dip 6 – CAN-bus termination resistor on the head-unit side

Setting dip 2 to ON codes the factory rear-view camera input which is located on the brown Fakra male connector of the factory monitor. When reverse gear is engaged, the navigation will automatically switch to this input. On vehicles with factory rear-view camera set Dip 2 to ON, too.

1.4. Pin-assignments

Pin-assignment factory monitor connector

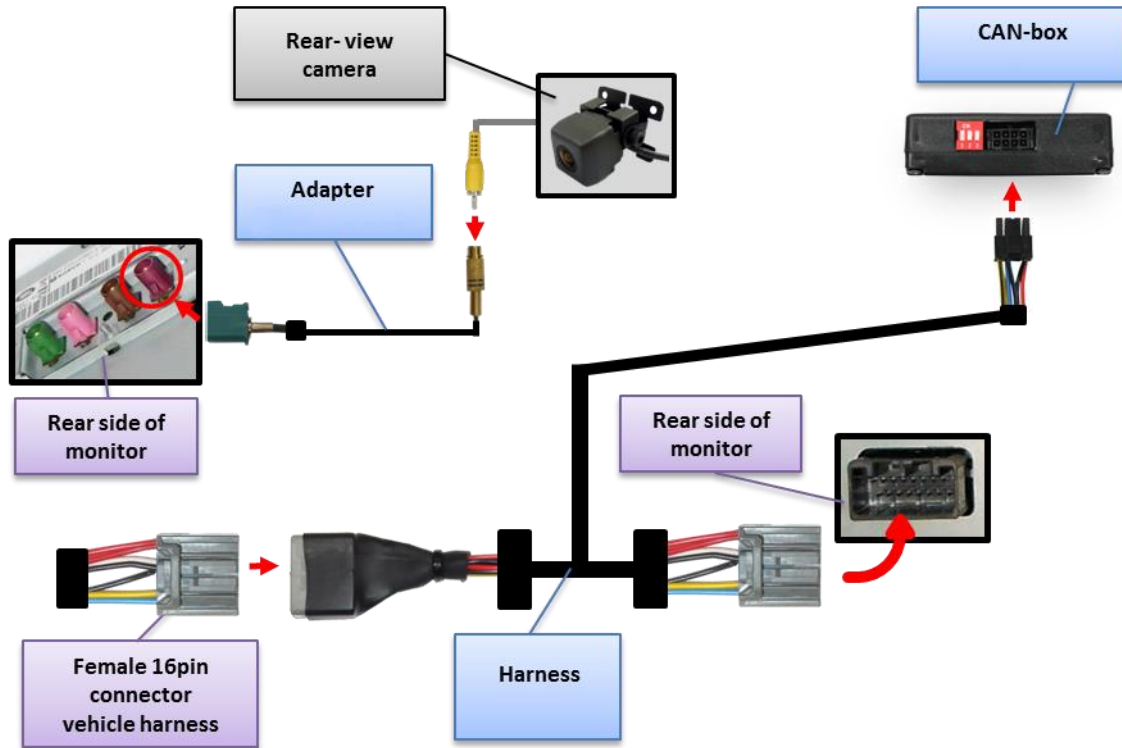
Cable color	Assignment
● Orange/grey	CAN-HIGH Pin 2
● Orange/purple	CAN-LOW Pin 1

No liability for vehicle wire colors and pin definition! Possible changes by the vehicle manufacturer. The given information must be verified by the installer.

Pin-assignment of the CAN-Box (Molex 8pin)

Cable color	Pin-No.	Assignment
● Yellow	Pin 4	CAN-HIGH – connection to the head-unit
● Blue	Pin 3	CAN-LOW – connection to the head-unit
● Yellow/Black	Pin 8	CAN-HIGH – connection to the vehicle
● Blue/Black	Pin 7	CAN-LOW – connection to the vehicle
● Red	Pin 1	+12V permanent
● Black	Pin 5	Ground
● Green	Pin 6	Activation of the video-in-motion function (+12V = TV-free activated)
● White	Pin 2	Trigger output (+12V DC 500mA)

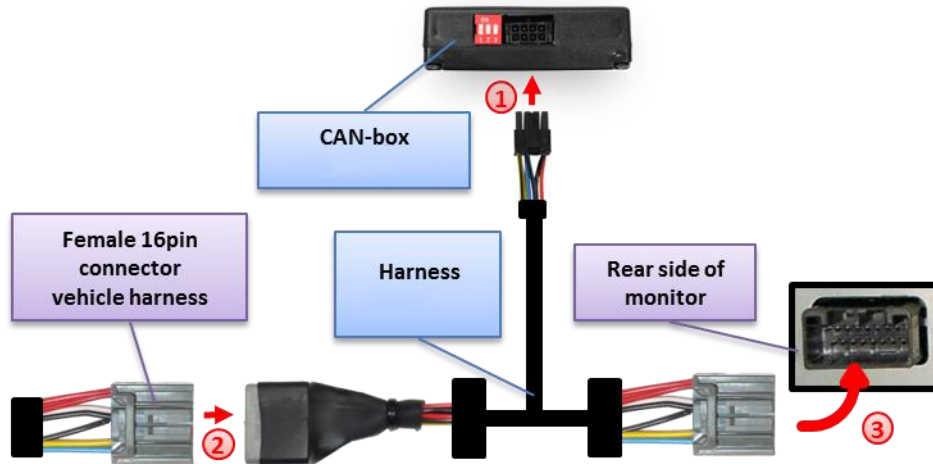
2. Connection schematic



3. Installation

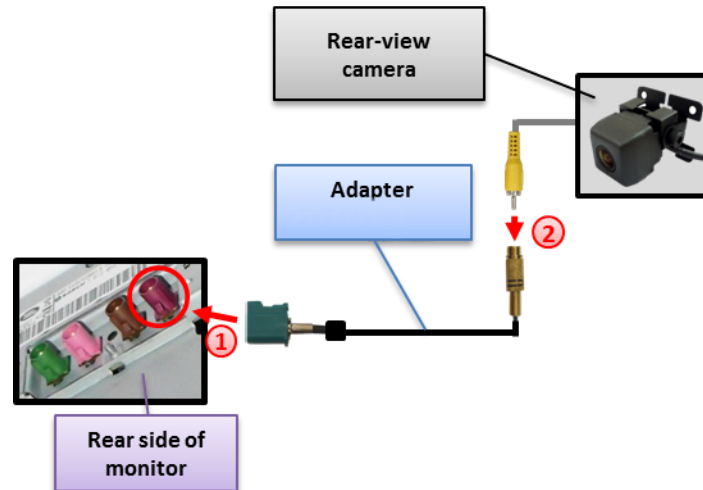
Switch off ignition and disconnect the vehicle's battery! If according to factory rules disconnecting the battery has to be avoided, it is usually sufficient to put the vehicle in sleep-mode. In case the sleep-mode does not show success, disconnect the battery with a resistor lead.

Place of installation is on rear of the factory navigation monitor.

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

- 1 Connect female 8pin Molex connector of harness to male 8pin Molex connector of CAN-box.
- 2 Transfer female 16pin connector of vehicle harness from rear of the factory navigation monitor into male 16pin connector of harness.
- 3 Plug female 16pin connector of harness into male 16pin connector on the rear of the factory navigation system.

3.2. Connections to rear-view camera



- 1 Connect female Fakra-connector of adapter to the male purple Fakra-connector on the rear of the factory navigation monitor.
- 2 Connect the video RCA of the rear-view camera to the female RCA connector of adapter.

Note: Only compatible with NTSC-cameras.

4. Activation of the video-in-motion function

The video-in-motion can be activated and deactivated by Dip 1 or alternatively by the included loose green cable in connection with a switch (not included in delivery).

Video-in-motion permanent

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

Video-in-motion selective

With dip1 to OFF the included green cable is used to activate the video-in-motion function.

Connect a switch to the green cable and connect the green cable to +12V ACC.

- +12V = TV-Free is activated
- 0V = TV-Free is not activated

Note: The loose white cable is not required and must be isolated.

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	70 x 20 x 47 mm/ 76 x 27 x 54 mm

6. Technical support

Crux Interfacing Solutions

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