

CARAUDIO SYSTEMS RL-FD79-TF Camera Interface



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CARAUDIO-SYSTEMS

CARAUDIO SYSTEMS RL-FD79-TF Camera Interface



FAQ

- **Q:** Can I use the rear-view camera while driving?
- **A:** By law, watching moving pictures while driving is prohibited. The driver must not be distracted. This product should only be used while standing or to display fixed menus or rear-view camera video when the vehicle is moving.
- **Q:** How can I receive software updates for the interface?
- **A:** 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 its own cost.

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 the 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 in 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 its own cost. Labour costs and other expenses involved with the software updates will not be refunded.

Before installation

- Read the manual before installation.
- Technical knowledge is necessary for installation.
- The place of installation must be free of moisture and away from heat sources.

Delivery contents

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



Check the compatibility of the vehicle and accessories

Requirements

Vehicle Ford

- 2011 – 2014 Edge
- 2011 – 2014 Explorer
- 2012 – 2014 Focus
- 2013 – 2014 Focus ST
- 2013 – 2014 Taurus
- 2013 – 2014 Escape F-150
- 2013 – 2014 F-150 Raptor F-250
- 2013 – 2014 F-350
- 2013 – 2014 F-450
- 2013 – 2014 F-550
- 2013 – 2014 Fusion Hybrid
- 2013 – 2013 Fusion Energy
- 2013 – 2014 C-Max Hybrid
- 2013 – 2014 C-Max Energi

Navigation Sony 8" MYFORD Touch Radios



Limitations

Navigation While the video-in-motion function is active, the navigation will not work!

DIP-switch settings of the Can-Box RLC-FO01-A modules

Setting the DIP-switches of the Can-Box RLC-FO01-A connected on the 500KB 8Pin Molex plug

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

With DIP1 to OFF the included green cables are used to activate the video-in-motion function.

Note: DIP switch functions of the RLC-FO01-A

- DIP 1 – activation TV-free
- DIP 2 – no function
- DIP 3 – no function
- 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 the DIP-switches of the Can-Box RLC-FO01-A connected on the 125KB 8Pin Molex plug

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

With DIP1 to OFF the included green cables are used to activate the video-in-motion function.

Note: DIP switch functions of the RLC-FO01-A

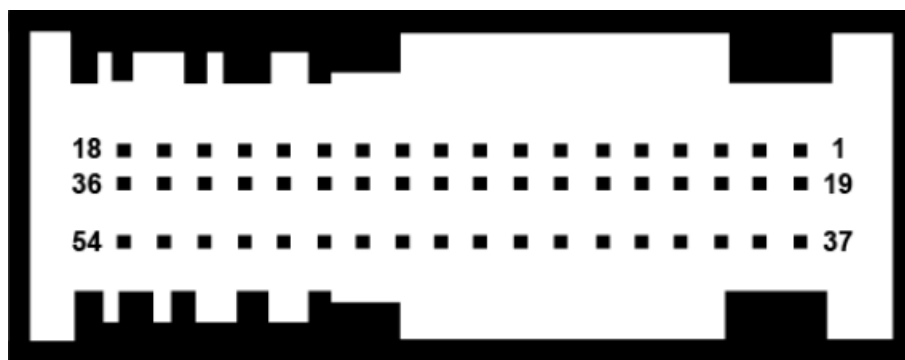
- DIP 1 – activation TV-free
- DIP 2 – Rear-view camera activation
- DIP 3 – no function
- DIP 4 – no function
- DIP 5 – CAN-bus termination resistor on the vehicle side
- DIP 6 – CAN-bus termination resistor on the head-unit side

Pin-assignments

Pin-assignment vehicle connector

Assignment

- +12Volt Permanent – Pin 1
- Ground – Pin 37
- CAN HIGH (500KB) – Pin 19
- CAN LOW (500KB) – Pin 18
- CAN HIGH (125KB) – Pin 16
- CAN LOW (125KB) – Pin 17



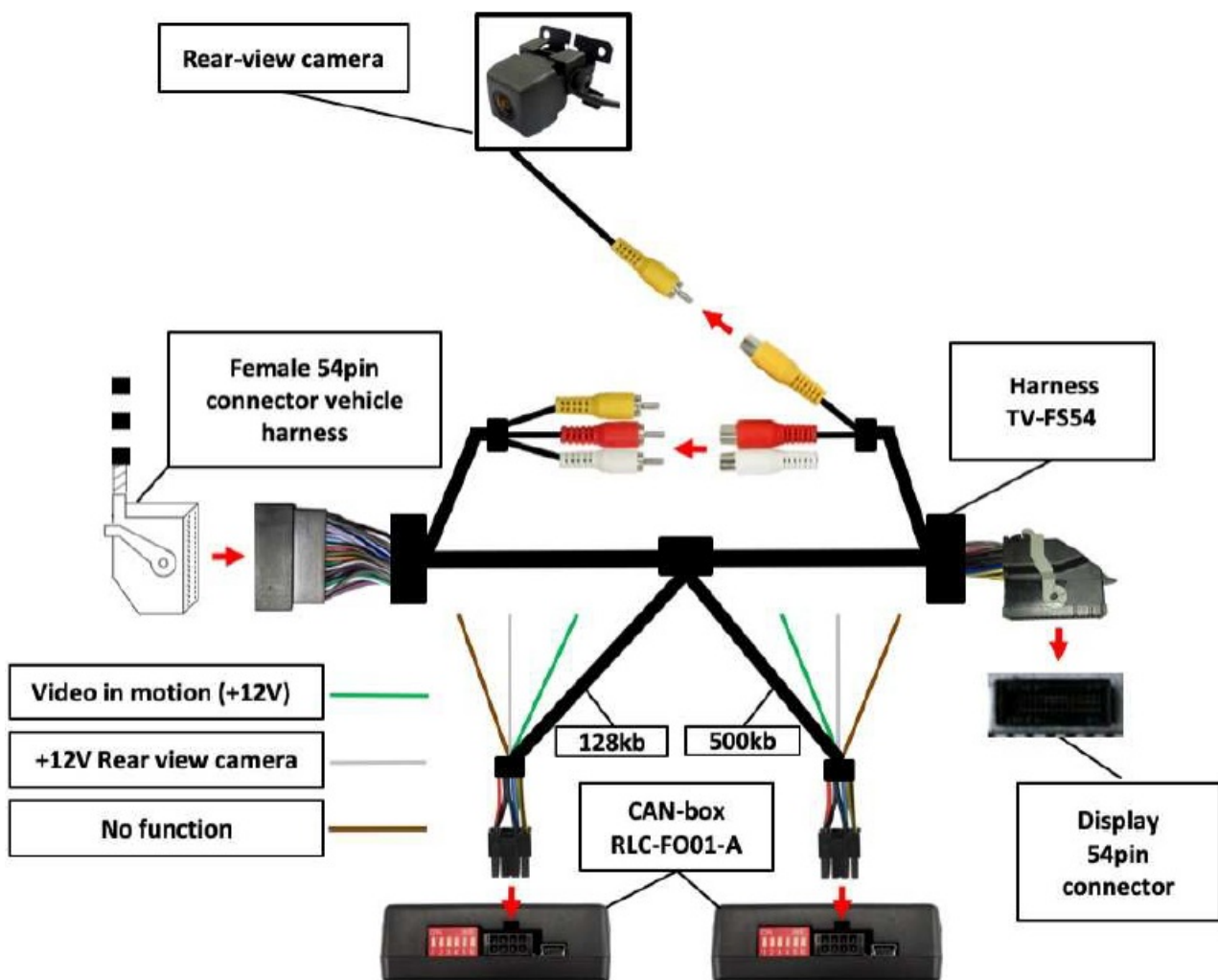
Pin-assignment of the CAN-Box RLC-FO01-A (Molex 8pin)

| Cable colour | 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 | Rear-view camera power output (+12V DC 500mA) |

Note: White and red cinch plugs on the harness forward the factory AUX signal and must therefore remain connected.

The open brown cable serves no function and must be isolated.

Connection schema



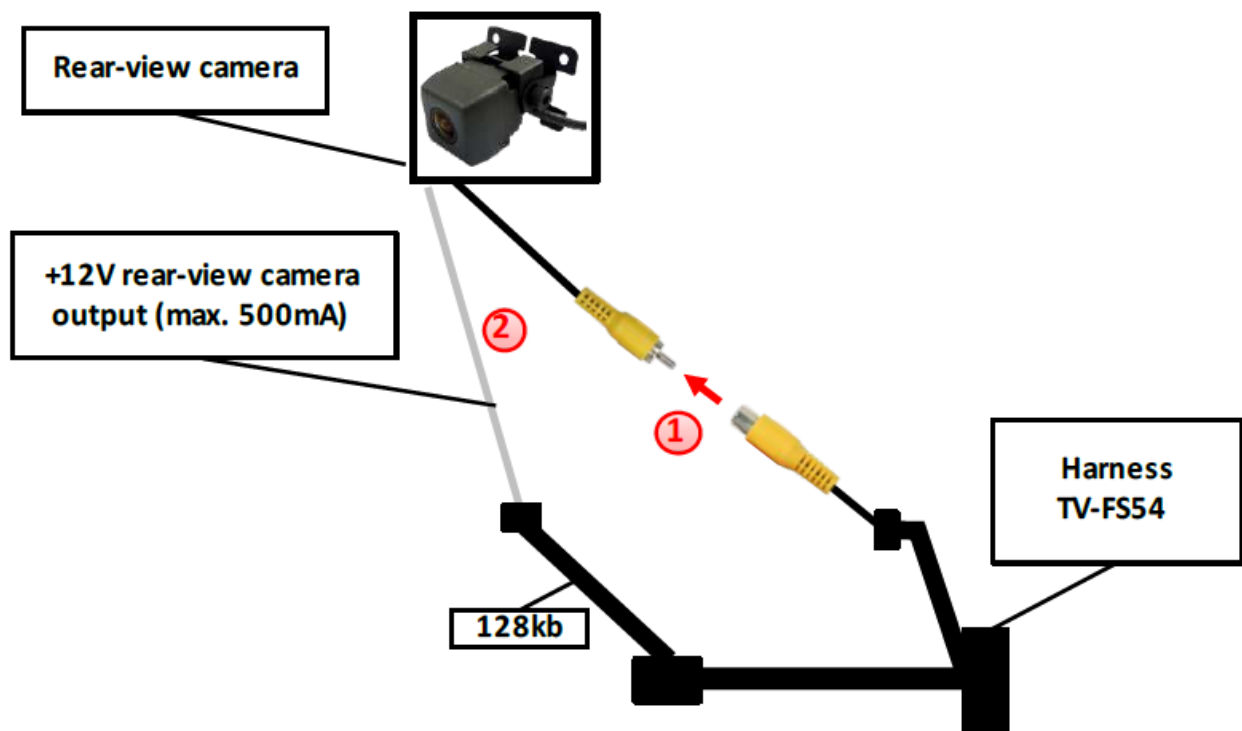
Installation

Switch off the 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.

1. Remove the factory display to gain access to the factory 54-pin connector.
Located behind the display, not the radio. Remove the factory 54-pin connector.
2. Using the provided 54-pin harness, mate both sides of the harness. To the factory harness side and back into the radio side.
3. Connect one RLC-FO01-A module to the 125kb 8-Pin connector and the other RLCFO01-A- Module to the 500kb 8-Pin connector on the provided harness (note: the RLC-FO01-A- Modules are identical). Make sure all your connections are firmly inserted into each module.
4. After connecting the modules, set the DIP switch number "6" to the "ON" position on both modules. Make sure to match both modules for DIP switch number 6.
5. With the harness and interface modules properly connected, turn the ignition to the "ON" position. For Push-Start vehicles, simply press the button once to place the vehicle "ON".
6. When the radio powers up, turn the radio ON and select the FM Radio source. This step simply helps to verify the interface corresponds with the radio.
7. While listening to the FM Source, place DIP switch number "2" to the "ON" position on the RLC-FO01-A module connected to the 125kb 8-Pin connector. Leave the RLC-FO01-A module connected to the 500kb 8-Pin connector alone. The screen will power off and begin to reset.
8. Wait for the interface to reboot, the progress bar will show the percentage completed. This process may take up to 1 minute. Once completed the FM Radio Source will continue to play as it was before the reboot.
9. With the view camera disconnected, start the vehicle and place the vehicle into the reverse gear. The radio display will prompt you with an error message of "Camera Unavailable". This verifies the coding was a success!

Rear-view camera connection



1. Connect the video RCA of the rear-view camera to the female RCA connector (RVC input) of the TV-FS54 harness.

2. Connect the white cable from the 125kb 8-Pin connector of harness TV-FS54 to the camera power supply (+12V, max 500mA). The white cable gets power when the reverse gear is engaged. By leaving the rear camera level the power is switched off again

Note: Only compatible with NTSC cameras.

Activation of the video-in-motion function

The video-in-motion can be activated and deactivated by DIP 1 on both RLC-FO01-A modules or by steering wheel buttons or over the loose green cables in connection with a switch (not included in delivery).

Option 1: Video-in-motion permanent

With DIP1 to ON on both RLC-FO01-A modules, the video-in-motion function is activated permanently. The navigation cannot be used.

Option 2: Video-in-motion selective (recommended for the use of navigation)

Some vehicles will allow you to activate the Video in motion through the steering wheel controls (set on both RLC-FO01-A modules DIP1 to OFF):



- TYPE 1 – Seen on Ford Edge and C-Max.
- Hold the BACK button (Left Arrow) for 3 seconds to activate the Video In-Motion.
- To deactivate – Repeat the step above.
- TYPE 2 – Seen on Ford F-Series vehicles.
- Hold the PHONE button (OK) for 4 seconds to activate the Video In-Motion.
- To deactivate – Repeat the step above.

Option 3: Video-in-motion selective (recommended for the use of navigation)

With DIP1 to OFF on both RLC-FO01-A modules, the included green cables are used to activate the video-in-motion function.

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

● +12V


= TV-Free is activated

● 0V

= TV-Free is not activated

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

CE  12V DC


Technical support

Legal disclaimer: The mentioned company and trademarks, as well as product names/codes are registered trademarks ® of their corresponding legal owners.

CONTACT

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Documents / Resources

| | |
|---|--|
|  | <p>CARAUDIO SYSTEMS RL-FD79-TF Camera Interface [pdf] Instruction Manual RL-FD79-TF, RLC-FO01-A, RL-FD79-TF Camera Interface, Camera Interface, Interface</p> |
|---|--|

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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