

r.LiNK-Interface

RL-FD79-TF

Rear view camera input compatible with Ford and Sony 8" MYFORD Touch Radios

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.

Contents

1. Prior to installation

- 1.1. Delivery contents
- 1.2. Check compatibility of vehicle and accessories
- 1.3. Dip-switch settings of the CAN-Box RLC-FO01-A modules
- 1.4. Pin-assignments
- 1.5. Connection schema

2. Installation

3. Rear-view camera connection

4. Activation of the video-in-motion function

5. Specifications

6. Technical support

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!

Harness
TV-FS54



CAN-box RLC-FO01-A
HW____ SW____

CAN-box RLC-FO01-A
HW____ SW____

1.2. Check compatibility of 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 Energy

Navigation

Sony 8" MYFORD Touch Radios



Limitations

Navigation

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

1.3. 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

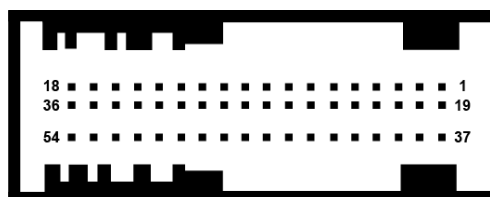
Dip 5 – CAN-bus termination resistor on the vehicle side

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

1.4. 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 |



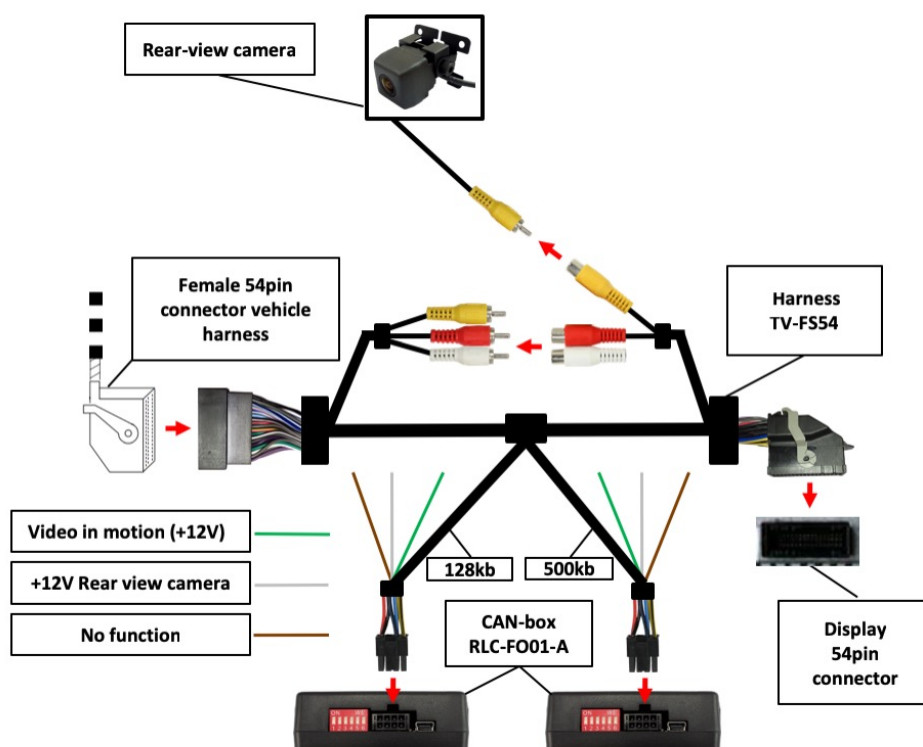
Pin-assignment of the CAN-Box RLC-FO01-A (Molex 8pin)

| 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 serve no function and must be isolated.

1.5. Connection schema



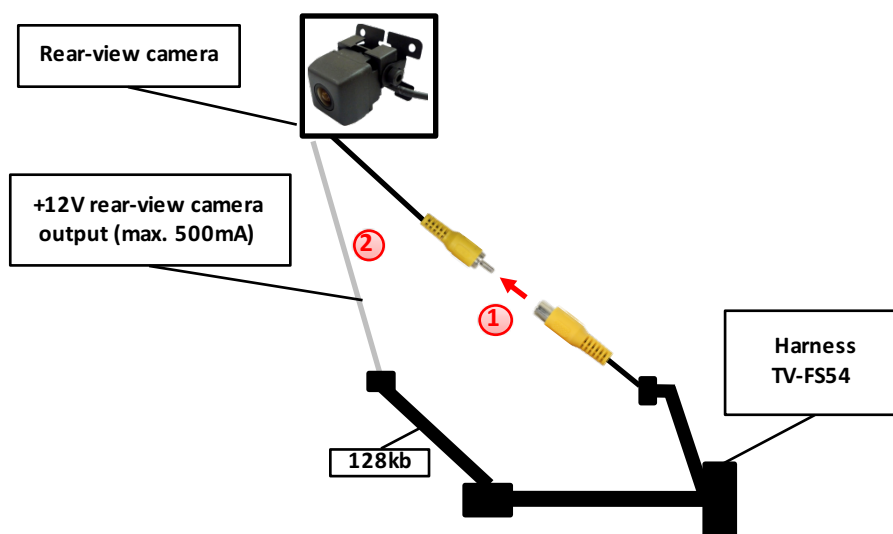
2. Installation

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.

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 the one RLC-FO01-A module to the 125kb 8-Pin connector and the other RLC-FO01-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 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 in verifying the interface is corresponding 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 on the 125kb 8-Pin connector. Leave the RLC-FO01-A module connected on 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 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 Rear-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!

3. 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 reverse gear is engaged. By leaving the rear camera level the power is switch off again

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 on both RLC-FO01-A modules or alternatively 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)

There are some vehicles that 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

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 |

CE  12V DC

6. Technical support

Caraudio-Systems Vertriebs GmbH
manufacturer/distribution
In den Fuchslöchern 3
D-67240 Bobenheim-Roxheim

email support@caraudio-systems.de

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