Installation Guide

FMC640 BLE 4G / FMB640 BLE 2G

Before installation, please ask our support about the remote capability of the tachograph using the type (1381) or release number **(VDO tacho versions 1.3a or later and Stoneridge device from release 7.3):**

+49 3641 22778 595 or ticket@dako.de

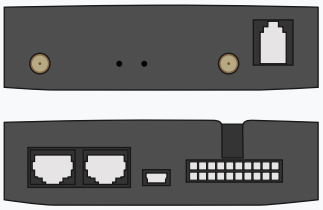
If difficulties concerning the installation of the telematic unit with the vehicle's tachograph should occur, please consult the manufacturer's manual for installing third-party telematics.

Preparation

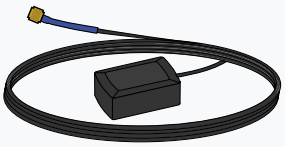
Scope of delivery:

Please note: All parts are required for installation!

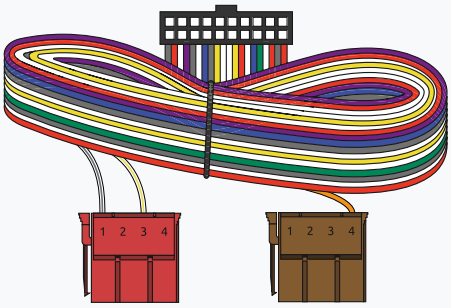
☐ FMC640



☐ GPS antenna cable

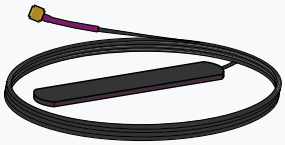


☐ Wire harness (20 pins)



☐ Manual

☐ GSM antenna cable



Required for installation:

☐ testing device for tachographs ☐ workshop card ☐ §57b certified staff member ☐ if necessary, a 120 ohm resistor

The following information has to be available at the time of the final installation check:

IMEI FMC640: _____

Licence number: _____

Number of tachograph type: _____

Tachograph has to be calibrated BEFORE installation (Licence number/Vehicle identification number)

If the device originates from an end-of-life-vehicle, please contact our support for further instructions.
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Please complete this form and hand it over to the client after installation!

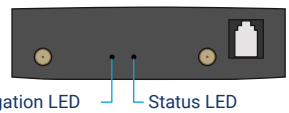
LED lighting

Navigation LED

Status	Meaning
OFF	GNSS is switched off: Device does not work or is in sleep mode
Blinks every second	Default state, GNSS operates
Fast blinking	Software errors
ON	No GNSS signal

Status LED

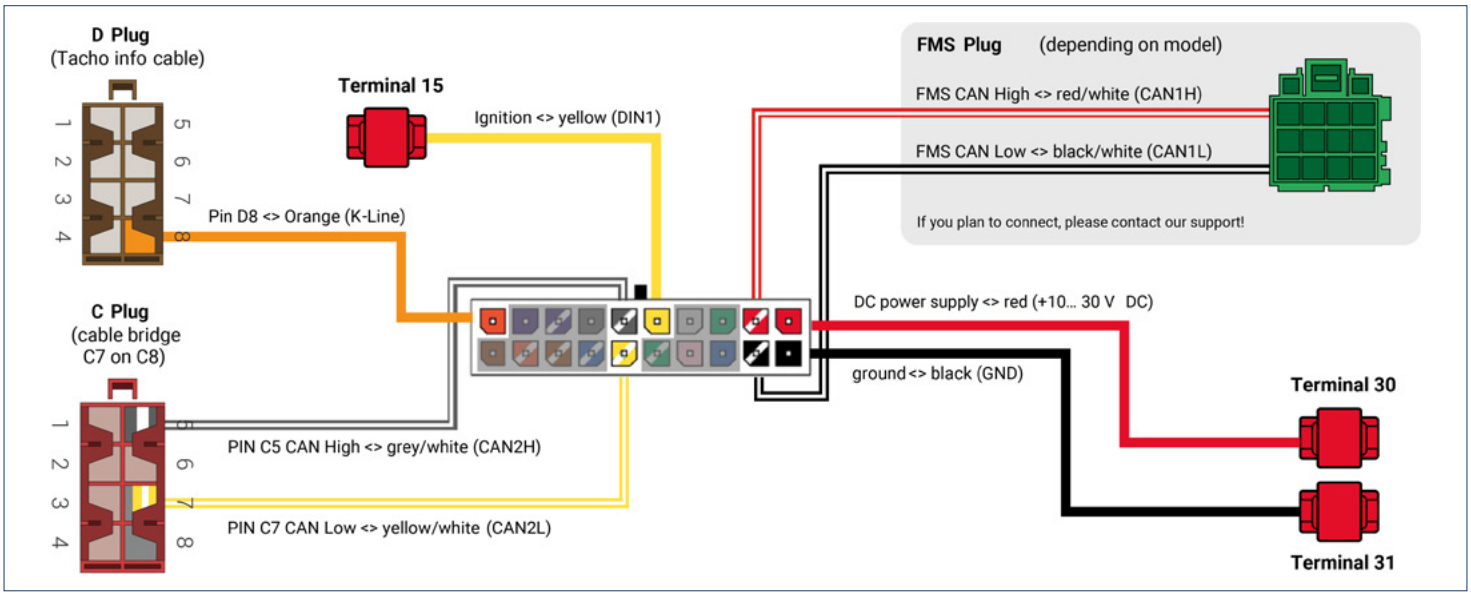
Status	Meaning
OFF	Device does not work or is starting to operate
Blinks every second	Default state
Blinks every 2 seconds	Sleep mode
Fast blinking	Modem activity



Installation

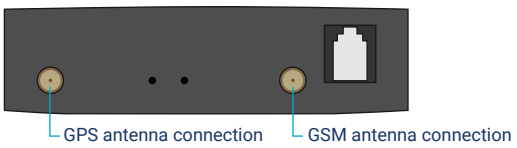
Please follow the **mounting sequence**!

1. Wire the 20-pole wiring harness according to the installation schema shown below.



2. Placement and connection of external antennas (GSM & GPS)

Place the two external antennas in a suitable place in the area behind the tachograph. Fix their position using the adhesive tape that is attached on the antennas. Both antenna threads have to be tightened by hand and additionally secured to prevent vibration (Recommendation: 1 drop of Loctite 243 medium strength).



3. Implement the following setup on your tachograph:

for VDO (testing device and workshop card)

- ☐ deactivate CAN2 and then reactivate it
- ☐ deactivate CAN2 remote download and then reactivate it
- ☐ set CAN2 baud rate on 250 kBd

OR

for Stoneridge (workshop card and tachograph)

- ☐ CAN selection on „C“
- ☐ D8 log SER/SRE

4. In case you ordered FMS data transmission (tank fill level, fuel consumption, etc.) please contact our customer service.

5. **Before** you insert the tachograph into the slot, please call the DAKO support. Please make sure that the **vehicle is standing outdoors**, if possible, and the **ignition is switched on** before contacting our support.

Wiring

Standard installation without pre-wiring

The internal resistance is measured with the ignition switched off and the C plug disconnected. On the red plug „C“, only the FMC640 is connected using a cable bridge which connects the internal resistor.

First, it should be determined if the tachograph includes an internal resistor. This requires checking the resistance with a multimeter at Pin C5 and Pin C8 without a plug (check figure 2.5). If the testing device shows 120 ohm, an internal resistor is included which can be connected to Pin C7 and C8 with a bridge cable. If the measured value is in the mega ohm range, no internal resistor has been included. In this case, a 120 ohm resistor has to be placed between C5 and C7. The cable bridge between C7 and C8 becomes unnecessary.

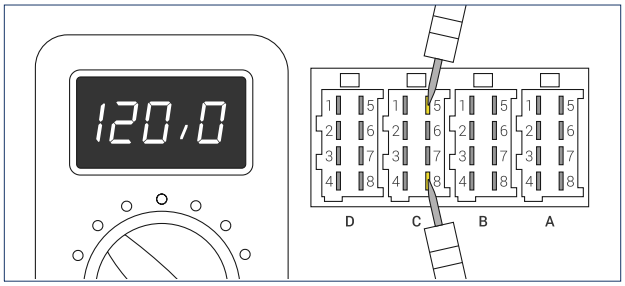


Figure 2.5: Checking resistance

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