

Installation and Operating Instructions Comfort Module CMR171

Before installation:

Please read these instructions carefully and take your time with the installation. Performing the installation improperly can cause damage to the module or to electronic components in your vehicle. Claims cannot be asserted for consequences which arise out of disregard for these installation instructions. If you are not confident in doing the installation yourself, please obtain the services of a vehicle specialist.



Attention: Installation of this module may be grounds to invalidate your vehicle's homologation (general type certification) and/or its manufacturer's warranty. Do not operate the convertible top or windows without the presence of another person – there is no entanglement protection. The installation and operation of the module is at your own risk

Functional description:

The module only uses functions which were originally built into the vehicle. All data relevant to convertible top control (e.g. limit switches, window position, speed) will be continuously monitored. All OEM safety functions (under / over voltage cut-off, thermal protection, etc.) remain intact. The module has no influence on other functions which are speed dependent (e.g. windscreen wiper interval or central locking). The ignition system will not be turned on while the convertible's top or the windows are controlled remotely – only the convertible top controller is active.

Operating the convertible top and windows with the radio-control key is independent of the optional infrared (IR) remote control for the convertible top. Control of the convertible top and windows is achieved via the same signal that is used for central locking – this does away with the need to "point" accurately at the door handle.

The module's functional scope and operation:

- **Tap function for the top's switch:**

Now you need only to tap with your finger on the convertible top switch, then the top will automatically open or close. This automatic operation can be interrupted at any time by simply tapping on the switch again in any direction. You can start the top's operation, pull out the ignition key, get out of the car and lock it – the top will continue to automatically close or open without the ignition.

- **Operating the top while driving (up to a speed of 60 km/h maximum):**

Up to a pre-programmed speed (though not greater than 60 km/h), you can operate the top while driving. If the top's operation is interrupted due to excessive speed, then it will automatically resume as soon as the speed drops down below the threshold again.

- **Threshold speed adjustment:**

If, while driving, you press the telephone hang-up button on the steering wheel for longer than 3 s, this will automatically set the vehicle's current speed as the new threshold limit. An acoustic signal will be sounded as confirmation that the new speed has been set. The maximum permissible threshold speed is 60 km/h. Anytime the battery is disconnected, including during the initial installation of the module, a threshold speed of 30 km/h will be set by default.

- **Operating the windows per OEM remote control:**

Press the Open switch on the remote control twice (in one second intervals) and all windows will open automatically. Closing the windows works in the same way except that the Close button on the remote control is used. As a safety precaution, closing the windows can be terminated at any time with the "Open" button on the remote control.

- **Operating the top per OEM remote control:**

Press the Open switch on the remote control three times (in one second intervals) and the top will open automatically. Closing the top works in the same way except that the Close button on the remote control is used. As a safety precaution, opening the top can be terminated with the Close button or closing the top can be terminated with the Open button. You can start the top's operation, get into the car and drive away – the top will automatically open or close.

- **Double-click function of the top switch to close the windows:**

A double-click on the top's switch in the close direction will cause all of the windows to close automatically.

- **Double-click function of the top switch to open the windows:**

The original double-click function on the top switch in the open direction remains fully intact.

- **Service mode for technical vehicle inspections and diagnostic purposes:**

When the vehicle's ignition key is in the Acc. position (ignition key position 2), the telephone hang-up button on the steering wheel can be held depressed for longer than 3 s to switch between service mode and normal mode. The module is completely passive in service mode, i.e. all functions operate as if no module was installed. The module cannot even be detected with vehicle diagnostic equipment. Service mode is confirmed by a three-pulse signal tone, normal operation with a single signal tone. Service mode is set by default after the battery has been disconnected or after the module is initially installed.



Attention: After the module has been installed it must first be set to normal mode in order to obtain its additional features because service mode is set by default. The remote key must be set in this way, that all doors open at the first press on the open-button (see SLK R171 manual).

Module installation:

You will need the following tools:

- Torx screwdriver / bits TX25, open-end spanner 10 mm
- a small flat screwdriver, universal pliers

Installation:

1. move the driver's seat all the way backward
2. remove the cover by pulling it up, then pulling it towards the open door (Figure 1 and 2)
3. remove the screw cover (behind lever for the bonnet) and loosen the screw (Torx TX25). Then you can remove the side cover (Figure 3)
4. open the cable channel, it's top cover is latched in place (Figure 4 and 5)
5. take out the front CAN-distributor and remove the lock mechanism by pressing the two sidewise clips outwards (Figure 5 and 6)
6. remove CAN-connector on position 9 (seen from left) and connect it to the CMR171. Plug the CMR171-connector to the free place of the CAN-distributor (Figure 7)
7. connect the black wire of the module (ground) behind the lever for the bonnet (Figure 8)
8. connect the red wire of the module (+12V) to any red wire of the wire harness of your SLK (all red wires are connected to +12V). The two wires should have nearly the same diameter (Figure 9)
9. test the module, be sure that it was set to normal operation mode before (see page 2)
10. reassemble everything in the reverse order

Figures 1 ... 6, module installation:



Figure 1: pull up to loosen cover



Figure 2: pull sideways to remove cover



Figure 3: remove screw cover



Figure 4: cable channel



Figure 5: open cable channel, CAN-Distributor

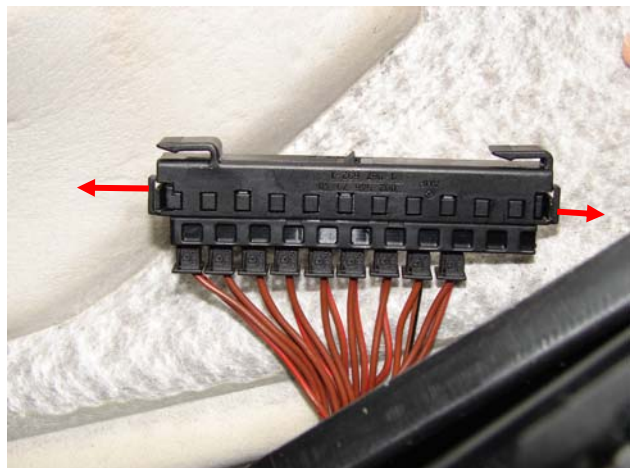


Figure 6: remove lock mechanism

Figures 7 ... 9, module installation:

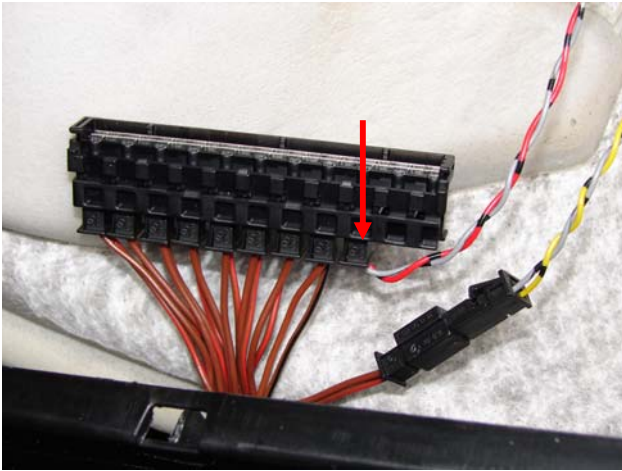


Figure 7: CAN connection of CMR171

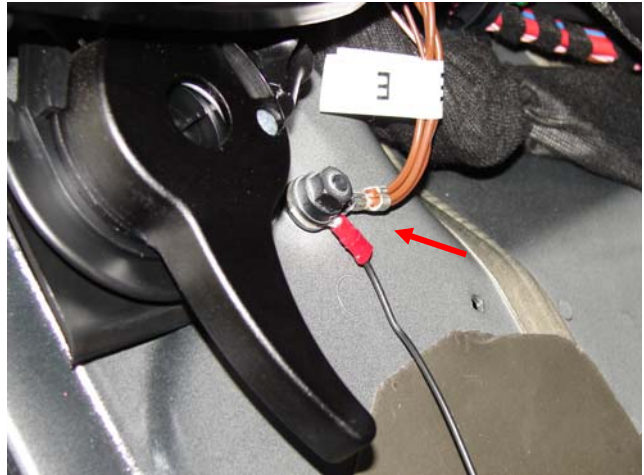


Figure 8: ground connection of CMR171



Figure 9: +12V connection of CMR171