

## Radio-control key MINI (BMW standard)

The radio-control key consists of the mechanical ignition key, the EWS electronics and a radio receiver.

- The radio-control key is supplied with a permanently integrated, rechargeable battery. The rechargeable battery is charged in the vehicle via the EWS loop antenna when inserted in the ignition lock and terminal R is switched on (ignition lock in position 1 or 2).  
The rechargeable battery discharges after 1 year. A fully discharged rechargeable battery must be recharged for at least 30 hours until it has regained its full capacity.

### Button function

Depending on how long they are pressed, the three buttons on the key transmitter trigger various actions in the vehicle.

- Button "Close" (button with MINI symbol)  
Pressed briefly: Lock and arrest central locking and activate DWA.  
Button pressed and held: door window and sunroof convenient closing function (codeable!)  
Pressed briefly with vehicle locked: Switch on interior lights (codeable)  
Press briefly twice within 10 seconds with vehicle unlocked: Lock and secure vehicle, activate DWA and switch off tilt alarm sensor and radio remote interior protection function (function for tilt-ramp garages and vehicle transport).
- Button "Unlock" (button with lock symbol)  
Pressed briefly: Release central locking and deactivate DWA  
Button pressed and held: door window and sunroof convenient opening function (codeable!)
- Button "Boot" (button with vehicle symbol)  
Pressed briefly: Open boot lid  
Button pressed and held: Trigger DWA alarm (panic mode) (function codeable).

All radio remote instructions are encoded by means of a constantly changing code in order to prevent tampering in the system.

If the radio remote instruction is disturbed during convenient opening/closing of the door windows, for safety reasons, the function is terminated immediately in the vehicle. The corresponding button on the key transmitter must be released and then pressed again in order to resume convenient mode functions.

The remote control function is deactivated in the general module when the vehicle key is inserted in the ignition lock in order to avoid remote control command functions being activated after unintentionally pressing the remote buttons. The general module receives the "key inserted" message from the EWS control unit.

### Initialisation

#### Function

The initialization procedure allocates the key transmitter to the general module. During initialization, a code is generated in the key transmitter and then transferred to the general module. The code is stored in the key transmitter and in the general module. The general module recognizes the keys belonging to the system on the basis of this code. Only commands from these keys are then carried out.

A maximum of 4 keys can be initialized for each vehicle. The codes of all other keys are deleted when a key is re-initialized. This means that all the keys of a system must be initialized simultaneously.

#### Sequence of the initialisation

Carry out key transmitter initialization in the vehicle interior.

- Unlock vehicle via central locking and close driver's and passenger's doors.
- Briefly switch on terminal R in vehicle (maximum 5 seconds) and switch off again. => The system is now ready to be initialized.
- Press and hold "unlock" button on the key transmitter.
- Point key transmitter in direction of aerial and, with the "unlock" button pressed, press "lock" button three times within 10 seconds. => A new code is generated in the key.

- Release both buttons. => The general module signals that initialization of the key was successful by locking and unlocking the central locking system.

Repeat the procedure as of Point 3 (= press and hold "unlock" button on key transmitter) to initialize the other keys. Terminal R must not be varied during this procedure.

The initialization procedure is terminated if terminal R is switched on.

**Note**

A voltage-independent memory in the radio-control key ensures that the initialization data is not deleted even when the battery or rechargeable battery is discharged.