

## **Structure**

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The following overview contains all Car & Key Memory functions that can currently be programmed for series E38, E39 vehicles from 09/98 and series E46, E52 and E53 vehicles from start of series production. Only Car Memory functions are available for R50/R53 vehicles.

Functions which do not state a specific model series in the brief description are available for all vehicles capable of Car & Key Memory.

Due to varying legal stipulations, there are national differences in possible settings. Vehicles with the same equipment but of a different national variant may have a different range of possible settings. Moreover, the specific requirements of vehicle insurance companies in different markets and legal stipulations must be taken into account when making settings.

Factory settings also vary from country to country.

The vehicle is programmed at the factory in accordance with the central encoding code (ZCS) / vehicle order (VO).

### **1.1 Car Memory - Anti-theft system**

#### **Interior movement detector**

- o active
- o not active

The interior movement detector monitoring function can be permanently deactivated. This may be advisable if animals frequently remain in the vehicle.

Note insurance requirements!  
E46, E52 - not E38, E39, E53

#### **Tilt alarm sensor**

- o active
- o not active

The tilt alarm sensor monitoring function can be permanently deactivated. This function may be advisable if the vehicle is frequently parked in a duplex garage.

Note insurance requirements!  
E46, E52 - not E38, E39, E53

#### **Activation/deactivation**

- o remote control
- o locks and remote control

It is only possible to activate/deactivate the anti-theft alarm system with the remote control or with the remote control and the locks.

Note insurance requirements in GB, B, NL, F, I - deactivation only approved via remote control.

**Confirmation**  
**Deactivation, optical**

- active
- not active

**Confirmation**  
**Deactivation, acoustic**

- active
- not active

**Confirmation**  
**Activation, optical**

- active
- not active

**Confirmation**  
**Activation, acoustic**

- active
- not active

**Confirmation**  
**Activation, optical, doors/hatches closed**

- active
- not active

**Confirmation**  
**Activation, acoustic, doors/hatches closed**

- active
- not active

**Confirmation**  
**Confirmation without anti-theft alarm system**

- active
- not active

Not R50, R53

The deactivation of the anti-theft alarm system is confirmed by the hazard warning lights flashing briefly.

The deactivation of the anti-theft alarm system is confirmed by a siren sounding briefly.  
Only permissible on US vehicles.

The activation of the anti-theft alarm system is confirmed by the hazard warning lights flashing briefly.  
Not R50, R53

The activation of the anti-theft alarm system is confirmed by a siren sounding briefly.  
Only approved for US vehicles.

Activation of the anti-theft alarm system is confirmed by a brief flashing of the hazard warning lights as soon as all doors/hatches are closed.  
E46, E52 - not E38, E39, E53, R50, R53

Activation of the anti-theft alarm system is confirmed by a brief siren signal as soon as all doors/hatches are closed.  
Only permitted on US vehicles.  
E46, E52 - not E38, E39, E53, R50, R53

If "active" is selected, the locking or unlocking of the central locking system of a vehicle without anti-theft alarm system is verified with an optical or acoustic signal.

The optical or acoustic signal is dependent on the respective national version.  
This setting is effective when the vehicle is locked or unlocked either at the lock or with the remote control.  
E38, E39 from 09/99, E46, E53 - not E52, R50, R53

*Please note:*

On E46 vehicles, the fault memory entry "07 Anti-theft alarm system" is stored in the basic module.

## 1.2 Car Memory - Central locking system

**Interior lighting, remote control**

- active
- not active

The interior lighting is switched on if the car is locked and the lock button on the key is pressed.  
If the vehicle is locked a second time within about 15 seconds, the radio interior movement detector and tilt alarm sensor are deactivated.  
Not R50, R53

**Unlock rear window from the inside**

- o active
- o not active

#### Remote control, panic mode

- o active
- o not active

#### Open luggage compartment via remote control

- o if unlocked
- o always

#### Remote control opening mode

- o unlock luggage compartment
- o convenient opening
- o not active

#### Relock 2 minutes after unlocking if doors are not opened

- o active
- o not active

#### Automatic lock after pulling away

- o active
- o not active

#### Automatic unlocking after engine switch-off

- o active
- o not active

#### Central locking button, when vehicle is locked

- o active
- o not active

#### Selective central locking system

- o active
- o not active

#### Easy Entry

Selective central locking

- o active
- o not active

If the setting "active" is selected, the rear window is unlocked via a switch in the (driver's side) footwell. If the setting "not active" is selected, the rear lid is unlocked. E46 Touring

Prolonged pressing of the rear lid release button on the key with the anti-theft alarm system activated will trigger the alarm in panic mode. Not R50, R53

Open the luggage compartment by pressing and holding the unlock button. E46, E52 - not E38, E39, E53, R50, R53

The rear lid can be unlocked, the windows opened, or no function can be set. Operate by remote control with a long press of the unlock button on the key. R50, R53

The vehicle will automatically lock again approx. 2 minutes after a single inadvertent unlocking (when no door or hatch was opened afterwards). E38 and E39 from 09/99, E46, E52, E53, R50, R53

The vehicle is automatically locked after pulling away. Doors can be unlocked at any time from the inside. **This setting is effective when the doors are mechanically opened at the lock.**

For setting to be effective for key with remote control, please refer to 2.1 Key Memory - Central locking system.

After switching off the engine, the vehicle is automatically unlocked R50, R53.

When the vehicle is locked, the driver's and front passenger-side doors can be unlocked from the inside by pressing the central locking button. The doors can only be opened from the inside. The vehicle must first be unlocked with the key before it can be locked. Here, it makes no difference whether unlocking is carried out manually or via remote control.

If fitted, the anti-theft alarm will be triggered on opening. E46, E52 - not E38, E39, E53, R50, R53

The first time the vehicle is unlocked, only the driver's door is unlocked. The remaining doors are not unlocked until the vehicle is unlocked a second time. **This function only applies to manual unlocking via the lock.**

For settings available using the key with remote control, see 2.1 Key Memory - central locking system. E38, E39, E46, E53, R50, R53 - not E52

The Easy Entry facility can be set to active or not active.  
**This setting is effective when the vehicle is unlocked manually via the lock.**  
For the setting to be effective using a key with remote control, please refer to 2.1 Key Memory - Central locking system.  
Only E46 Coupé with basic module up to software version SW1.4

#### **Easy Entry / selective central locking system**

- o Easy Entry
- o selective central locking system
- o not active

Easy Entry facility or selective central locking system can be selected. Similarly, both functions can be deactivated. **This setting is effective when the vehicle is unlocked manually via the lock.**  
For setting to be effective for key with remote control, please refer to 2.1 Key Memory - Central locking system.

Only E46 Coupé

*Please note:*

The selection of the setting "Easy Entry" is only possible for the E46 Coupé with basic module software version SW1.5 or higher.

#### **Easy Entry - steering wheel vertical adjustment**

- o active
- o not active

The Easy Entry facility's automatic movement of the steering wheel to the upper stop can be set to active or not active.  
E53

#### **Easy Entry - steering wheel longitudinal adjustment**

- o active
- o not active

The Easy Entry facility's automatic movement of the steering wheel to the front stop (toward the instrument panel) can be set to active or not active  
E53

#### **Close rear lid with remote control function**

- o active
- o not active

The function to automatically close the rear lid with the remote control can be set to active or not active  
E39 Touring

### **1.3 Car Memory - Power windows / sliding/tilt sunroof**

#### **Convenient closing, remote control**

- o active
- o not active

Windows and sliding/tilt sunroof can be closed by pressing the lock button on the key with remote control - apply constant pressure to the "Lock" button.  
E38, E39, E46, E53 - not E46 Convertible, E52, R50, R53

#### **Convenient opening, remote control**

- o active
- o not active

Windows and sliding/tilt sunroof can be opened by pressing the unlock button on the key with remote control - apply constant pressure to the "Unlock" button.  
E38, E39, E46, E53 - not E46 Convertible, E52, R50, R53

#### **Convenient opening, remote control, without hinged windows**

- o active
- o not active

When this setting is active, the hinged windows are not opened when convenient opening is effected with the remote control. This depends upon the "Remote control convenient opening" setting being active.  
E46 Coupé with basic module from software version SW1.5

#### **Convenient opening lock**

- o active
- o not active

The windows can be opened by operation of the door lock - hold the key in the opening position.  
Not R50/R53

When "Open door" is selected, the power windows are deactivated if terminal R is "off" and the front door is open.

When "Close door" is selected, the power windows are deactivated if terminal R is "off" and if, on closing the front doors, at least one door was open.  
E38, E39, E53 - not E46, E52, R50, R53

#### **Close driver's door window, one-touch function**

- active
- not active

The driver's door window can be closed by pulling/pressing the button beyond the trip point. Use is made of the one-touch control function.  
Not R50, R53

#### **Open driver's door window, one-touch function**

- active
- not active

The driver's door window can be opened by pressing the button beyond the trip point. Use is made of the one-touch control function.  
Not R50, R53

#### **Close passenger door window, one-touch function**

- active
- not active

The passenger door window can be closed by pulling/pressing the button beyond the trip point. Use is made of the one-touch control function.  
E38, E39, E46, E53 - not E46 Convertible, E52, R50, R53

#### **Open passenger door window, one-touch function**

- active
- not active

The passenger door window can be opened by pressing the button beyond the trip point. Use is made of the one-touch control function.  
Not R50, R53

#### **Close rear windows, one-touch function**

- active
- not active

The rear windows can be closed by pulling/pressing the button beyond the trip point. Use is made of the one-touch control function.  
E38, E39, E46, E53 - not E46 Coupé, Convertible, R50, R53

#### **Open rear windows, one-touch function**

- active
- not active

The rear windows can be opened by pressing the button beyond the trip point.  
Not R50, R53

#### **Close sliding/tilt sunroof, one-touch function**

- active
- not active

The sliding/tilt sunroof can be closed by pressing the button to the front. Use is made of the one-touch control function.

#### **Open sliding/tilt sunroof, one-touch function**

- active
- not active

The sliding/tilt sunroof can be opened by pressing the button to the back. Use is made of the one-touch control function.

#### **Raise sliding/tilt sunroof, one-touch function**

- active
- not active

The sliding/tilt sunroof can be raised by pressing the button upwards. Use is made of the one-touch control function.  
E38, E46, R50, R53 - not E39, E53

#### **Open the windows by briefly pressing the central button**

- active
- not active

The windows can be opened by pressing the central switch beyond the trip point.  
E46 Convertible, E52

## **1.4 Car Memory - Lighting**

### **Interior lighting**

#### **ON when unlocking**

The interior lighting is switched on when manual unlocking is used.

**Interior lighting**  
**ON when terminal R is "off", light previously "on"**

- active
- not active

**Interior lighting**  
**Soft ON/OFF**

- active
- not active

**Exterior lighting**  
**Daytime driving lights**

- active
- not active

**Exterior lighting**  
**Follow-me-home lights**

- active
- not active

The interior lighting is only switched on when terminal R is "off" after driving with lights on.

E46, E52 - not E38, E39, E53, R50, R53

Dimmed interior lighting is switched on and off.  
Not R50, R53

The daytime driving lights are switched on as soon as the ignition is switched on and the light switch is turned to "position 2".

Note country-specific differences!

If terminal R is "off", the driving lights are switched on for the period of time selected when the headlight flasher is pulled. The following settings are possible: not active, 40s, 90s, 150s and 240s.

(E38, E39, E46, E52, E53, R50, R53).

For how to activate the function on R50, R53 vehicles, please refer to the Owner's Handbook.

## 1.5 Car Memory - Windscreen wipers

**Rain sensor**

- active
- not active

The rain sensor can be deactivated.

E46 - not E38, E39, E52, E53, R50, R53

**Switch down when stationary**

- active
- not active

The system switches from speed 1 to intermittent operation or from speed 2 to speed 1 when the vehicle is stationary.

**Rain-light sensor**

- sensitive
- less sensitive

The response of the rain-light sensor can be adjusted to be sensitive or less sensitive.

E39, E46, E53, not R50, R53

## 1.6 Car Memory - Cruise control

**Activate**

- active
- not active

The cruise control can be activated either via a switch on the instrument mount or via the button on the multi-function steering wheel.

E38, E39 with switch on instrument mount

**Active Cruise Control (ACC) desired speed**

- current
- rounded

If the setting "current" is selected, the current speed is adopted as the desired speed the first time the ACC is activated with the set/accelerate button. The display is made with the next-higher LED. If the setting "rounded" is selected, the speed of the vehicle when the ACC is activated is rounded up to the next multiple of 10 km/h or 5 mph and adopted as the desired speed.

E38 with ACC

## 1.7 Car Memory - Acoustic warnings

**Ignition key**

- o active
- o not active

#### **Fuel tank warning**

- o active
- o not active

### **1.8 Car Memory - Heating / air conditioning / ventilation**

#### **Key selective**

- o active
- o not active

#### **Flaps**

##### **Air recirculation flaps memory**

- o active
- o not active

#### **Cooling output**

- o normal
- o hot country

#### **Automatic heated rear window**

- o active
- o not active

### **1.9 Car Memory - Seat/mirror memory**

#### **Seat position**

- o when car is unlocked
- o when door is opened
- o not active

#### **Mirror memory - Automatic parking function**

- o active
- o not active

If the ignition key is still in the ignition lock when the driver's door is open, an acoustic signal will sound. This function is advisable if children are occasionally left in the vehicle who are able to play with the ignition key.

If the fuel tank reserve indicator lamp lights up, an acoustic signal sounds.

R50, R53 only

The Key Memory can be activated or deactivated for the air-conditioning system. Using the "active" setting, temperature and blower settings, and air conditioning functions (AUC, air recirculation, flaps, defrost) are stored for each key individually.

E39, E53 - not E38, E46, E52, R50, R53

Air recirculation is retained after restarting the engine. The function is not dependent on the key used.

E38, E39, E46, E53 - not E52, R50, R53

The air conditioner control can be set to normal or as per hot country variant. If the hot country setting is selected, more cooling output is available due to appropriate blower output and flap control.

E38, E39, E46 - not E52, E53, R50

The function to automatically switch the heated rear window on at an ambient temperature of less than 3.5 degrees Celsius can be set to active or not active.

E46

The seat is moved to the stored position when the vehicle is unlocked using the key with remote control or after the driver's door is opened. A key-specific seat adjustment is not possible if "not active" is selected. On E38, E39 and E53 vehicles, not only the seat but also the mirrors and the steering column, if the latter can be electrically adjusted, change their positions.

On E46 vehicles, the mirrors are adjusted on vehicles from production period 09/99 (Model Year 00).

*Please note:*

Seat positioning is interrupted by pressing the lock button on the key with remote control.

E38, E39, E46, E53 - not E52, R50, R53

The position of the passenger-side exterior mirror for the automatic parking function can be stored for each key individually.

If "active" is selected and the mirror adjustment switch set to "passenger-side mirror", the passenger-side mirror will automatically be moved to the key-specific position when reverse gear is engaged.

If "active" is selected and the mirror adjustment switch set to "driver's-side mirror", the automatic parking function is deactivated.

If "not active" is selected and the mirror adjustment switch set to "driver's-side mirror", the passenger-side mirror is automatically adjusted to the lowest possible position when reverse gear is engaged.

If "not active" is selected and the mirror adjustment switch set to "passenger-side mirror", the automatic parking function is deactivated.

E46 from 09/99

## 1.10 Car Memory - Displays / language

### Units

#### Fuel consumption

- litres/100 km
- mpg (UK)
- mpg (US)
- km/litre

### Units

#### Distance

- km
- miles

### Units

#### Time

- 12 h
- 24 h

### Units

#### Temperature

- degrees C
- degrees F

### Language

#### Text display

- German
- English
- Italian
- Spanish
- Japanese
- French
- Gulf states

### Basic settings

#### Temporary ice warning

After setting the following functions, the clock must be reset to the correct time.

Fuel consumption can be displayed in the given units.  
E38, E39, E46, E53, R50, R53 without on-board monitor  
- not E52

Distance covered can be indicated in the units given.  
E38, E39, E46, E52, E53 without on-board monitor  
R50, R53

The clock can be set in the given modes.  
E38, E39, E46, E53, R50, R53 without on-board monitor  
- not E52

The ambient temperature can be displayed in the given units.  
E38, E39, E46, E53, R50, R53 without on-board monitor  
- not E52

The display texts can be displayed in the given languages.  
E38, E39, E53 without on-board monitor - not E46, E52, R50, R53

The ice warning can be set to active or not active.

Active: If the ambient temperature drops below about + 3°C, the acoustic ice warning sounds and the ambient temperature display flashes for a few seconds. The display then reverts to the previous display unit.

Not active: If the ambient temperature drops below about + 3°C, the acoustic ice warning sounds. The outside temperature is then permanently displayed. By pressing the steering column switch a different display unit is obtained.

E46 with instrument cluster from software version SW11 - R50, R53, not E38, E39, E52, E53

## 1.11 Car Memory - Audio / video

### Basic telephone interface - mobile phone type

- o Nokia 3110
- o Siemens S10

Mobile phone type can be changed in the case of a conversion or retrofit.

E46 - not E38, E39, E52, E53, R50, R53

*Please note:*

The mobile phone type must be set when retrofitting the basic telephone interface with "Encoding ZCS - Retrofit".

### New generation radio - key selective

- o active
- o not active

The Key Memory can be activated or deactivated for the radio. With the "active" setting, the sound, the last audio source (radio, cassette, CD) and the last station are stored for each key individually.

E39, E46, E53 with New Generation Radio - not E38, E52, R50, R53

### GAL-TCUI

- o 30 km/h
- o 48 km/h
- o 56 km/h

Speed threshold for raising volume.

E46 US only

## 1.12 Car Memory - Park Distance Control

### Signal volume, rear

- o level 1 (quiet)
- o level 2
- o level 3
- o level 4
- o level 5
- o level 6 (loud)

The volume of the acoustic signal can be adjusted.

Volume at level 1: quiet

Volume at level 6: loud

E38 and E39 from 09/99, E53, R50, R53 - not E46, E52

### Rear activation confirmation

- o active
- o not active

An acoustic signal sounds when reverse gear is engaged (PDC activation).

E39, E46, R50, R53 - not E38, E52, E53

## 2.1 Key Memory - Central locking system

### Automatic lock after pulling away

- o active
- o not active

The vehicle is automatically locked when it pulls away. It is still possible to open it from the inside. **This function is effective when the doors are opened using the remote control.**

Open the rear lid or rear window with remote control by pressing the button on the key.

E46 Touring

- o rear lid

### Selective central locking system

- o active
- o not active

The first time the button on the key is pressed, only the driver's door is unlocked. If it is pressed a second time, the whole car is opened. **This function is only effective when the remote control is used.**

For the setting to be effective using a key at the lock, please refer to 1.2 Car Memory - Central locking system.

E38, E39, E46, E53 - not E52, R50, R53

### Easy Entry

- o active
- o not active

The Easy Entry facility can be set to active or not active. **This setting is effective when the vehicle is unlocked with the remote control.**

For the setting to be effective using a key at the lock, see section 1.2 Key Memory - Central locking system. Only E46 Coupé with general module up to software version SW1.4

### Easy Entry / selective central locking

- o Easy Entry
- o selective central locking system
- o not active

Easy Entry or selective central locking can be selected. Similarly, both functions can be deactivated. **This setting is effective when the vehicle is unlocked with the remote control.**

For the setting to be effective using a key at the lock, see section 1.2 Car Memory - Central locking system. Only E46 Coupé

*Please note:*

The selection of the setting "Easy Entry" is only possible for the E46 Coupé with basic module software version SW1.5 or higher.

## 2.2 Key Memory - Heating / air conditioning / ventilation

### Blower

#### Setting blower speed

- o higher
- o normal
- o lower

In automatic operation, the normal blower output can be increased or decreased.

E46 - not E38, E39, E52, E53, R50, R53

### Vent flaps

#### Ventilation open in warming-up phase

- o yes
- o no

During the warming-up phase, the ventilation flaps are open or closed.

E46 - not E38, E39, E52, E53, R50, R53

### Vent flaps

#### After terminal 15 "ON"

- o yes
- o no

Manual control of the ventilation flaps using the 3 buttons on the air conditioning control panel can be activated directly by switching on the ignition.

E46 - not E38, E39, E52, E53, R50, R53

### Vent flaps

#### Correction of specified temperature

- o + 3 degrees
- o + 2 degrees
- o + 1 degree

The set temperature in the display can be corrected accordingly.

E46 - not E38, E39, E52, E53, R50, R53

- o - 1 degree
- o - 2 degrees
- o - 3 degrees

**Vent flaps**

**Air conditioner ON**

- o if ignition on
- o with button only

The air conditioning system will start operating when the ignition is switched on or only by pressing the button on the air conditioning control panel.

E46 - not E38, E39, E52, E53, R50, R53

**Vent flaps**

**Automatic blower**

- o active
- o not active

The automatic blower will start operating when the ignition is switched on or only by pressing the button on the air conditioning control panel.

E46 - not E38, E39, E52, E53, R50, R53