Structure
1 Car Memory
1.1 Anti-theft alarm system
1.2 Central locking system
1.3 Power windows / sliding/tilt sunroof
1.4 Lighting
1.5 Windscreen wipers
1.6 Cruise control
1.7 Acoustic warnings
1.8 Heating / air conditioning / ventilation
1.9 Seat/mirror memory
1.10 Displays / language
1.11 Audio / video
1.12 Park Distance Control
2 Key Memory
2.1 Central locking system
2.2 Heating / air conditioning / ventilation

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**
- active
- 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**
- active
- 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**
- remote control
- 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**

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

#### Deactivation, acoustic
- **active**
- **not active**

The deactivation of the anti-theft alarm system is confirmed by a siren sounding briefly.

Only permissible on US vehicles.

#### Activation, optical
- **active**
- **not active**

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

Not R50, R53

#### Activation, acoustic
- **active**
- **not active**

The activation of the anti-theft alarm system is confirmed by a siren sounding briefly.

Only approved for US vehicles.

#### Activation, optical, doors/hatches closed
- **active**
- **not active**

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, acoustic, doors/hatches closed
- **active**
- **not active**

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

#### Confirmation without anti-theft alarm system
- **active**
- **not active**

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.

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### 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

Not R50, R53
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 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.

**E46, E53, R50, R53 - not E52**

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**
**Easy Entry** / selective central locking system
- **Easy Entry**
- selective central locking system
- not active

**Easy Entry - steering wheel vertical adjustment**
- active
- not active

**Easy Entry - steering wheel longitudinal adjustment**
- active
- not active

**Close rear lid with remote control function**
- active
- not active

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

**Convenient closing, remote control**
- active
- not active

**Convenient opening, remote control**
- active
- not active

**Convenient opening, remote control, without hinged windows**
- active
- not active

**Convenient opening lock**
- active
- not active

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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.

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 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

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

E53

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

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

E39 Touring

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

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

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

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 | 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. |
| o active | |
| o not active | |

| Open driver's door window, one-touch function | 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. |
| o active | |
| o not active | |

| Close passenger door window, one-touch function | 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. |
| o active | |
| o not active | |

| Open passenger door window, one-touch function | The passenger door window can be opened by pressing the button beyond the trip point. Use is made of the one-touch control function. |
| o active | |
| o not active | |

| Close rear windows, one-touch function | The rear windows can be closed by pulling/pressing the button beyond the trip point. Use is made of the one-touch control function. |
| o active | |
| o not active | |

| Open rear windows, one-touch function | The rear windows can be opened by pressing the button beyond the trip point. |
| o active | |
| o not active | |

| Close sliding/tilt sunroof, one-touch function | The sliding/tilt sunroof can be closed by pressing the button to the front. Use is made of the one-touch control function. |
| o active | |
| o not active | |

| Open sliding/tilt sunroof, one-touch function | The sliding/tilt sunroof can be opened by pressing the button to the back. Use is made of the one-touch control function. |
| o active | |
| o not active | |

| Raise sliding/tilt sunroof, one-touch function | The sliding/tilt sunroof can be raised by pressing the button upwards. Use is made of the one-touch control function. |
| o active | |
| o not active | |

| Open the windows by briefly pressing the central button | The windows can be opened by pressing the central switch beyond the trip point. |
| o active | |
| o not active | |

### 1.4 Car Memory - Lighting

| Interior lighting | The interior lighting is switched on when manual unlocking is used. |
| ON when unlocking | |
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

1.5 Car Memory - Windscreen wipers

Rain sensor
- active
- not active

Switch down when stationary
- active
- not active

Rain-light sensor
- sensitive
- less sensitive

1.6 Car Memory - Cruise control

Activate
- active
- not active

Active Cruise Control (ACC) desired speed
- current
- rounded

1.7 Car Memory - Acoustic warnings

Ignition key

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

The rain sensor can be deactivated.
E46 - not E38, E39, E52, E53, R50, R53

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

The response of the rain-light sensor can be adjusted to be sensitive or less sensitive.
E39, E46, E53, not R50, R53

The cruise control can be activated either via a switch on the instrument mount or via the button on the multifunction steering wheel.
E38, E39 with switch on instrument mount

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
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

1.8 Car Memory - Heating / air conditioning / ventilation

Key selective
- active
- not active

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

Flaps
- active
- not active

Air recirculation flaps memory
- active
- not active

The 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

Cooling output
- normal
- hot country

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

Automatic heated rear window
- active
- not active

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

1.9 Car Memory - Seat/mirror memory

Seat position
- when car is unlocked
- when door is opened
- not active

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

Mirror memory - Automatic parking function
- active
- not active
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.

1.10 Car Memory - Displays / language

Units

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

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

o km
o miles

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

Time

o 12 h
o 24 h

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

Temperature

o degrees C
o degrees F

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

Language

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

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

- Nokia 3110
- Siemens S10

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

E46 - not E38, E39, E52, E53

Please note:

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

New generation radio - key selective

- active
- 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.


GAL-TCUI

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

Speed threshold for raising volume.

E46 US only

1.12 Car Memory - Park Distance Control

Signal volume, rear

- level 1 (quiet)
- level 2
- level 3
- level 4
- level 5
- 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

- active
- 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

- active
- 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.

### Selective central locking system
- **active**
- **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.

### Easy Entry
- **active**
- **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.

### Easy Entry / selective central locking
- **Easy Entry**
- **selective central locking system**
- **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 with general module up to software version SW1.4

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

#### Blower
- **Setting blower speed**
  - **higher**
  - **normal**
  - **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**
  - **yes**
  - **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"**
  - **yes**
  - **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**
  - **+ 3 degrees**
  - **+ 2 degrees**
  - **+ 1 degree**

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.
The set temperature in the display can be corrected accordingly.
E46 - not E38, E39, E52, E53, R50, R53

- 1 degree
- 2 degrees
- 3 degrees

**Vent flaps**

**Air conditioner ON**
- if ignition on
- with button only

**Vent flaps**

**Automatic blower**
- active
- not active

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

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