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Auxiliary heating

Important safety notes

⚠ **WARNING**

Exhaust fumes are produced while the auxiliary heating system is in operation. If you breathe in these exhaust fumes, you could be poisoned. Therefore, always switch off the auxiliary heating in enclosed spaces without an extraction system, e.g. a garage.

⚠ **WARNING**

Parts of the vehicle can become very hot during operation of the auxiliary heating. Make sure that the exhaust system does not under any circumstances come into contact with highly flammable material such as dry grass or fuels. Otherwise, the highly flammable material could ignite and set the vehicle alight.

Auxiliary heating operation is prohibited at gas stations or when your vehicle is being refueled. Therefore, the auxiliary heating must be switched off at gas stations.

The auxiliary heating system operates independently of the engine and complements the vehicle heating or air conditioning.

You can use the auxiliary heating at an outside temperature of up to 39 °F (4 °C) in order to:

- pre-heat the vehicle interior
- additionally warm the coolant, thereby conserving the engine and saving fuel
- support the vehicle's heating system while the engine is running and outside temperatures are low (heater booster function)

ℹ At an outside temperature above 39 °F (4 °C), the auxiliary heating system and the heater booster function switch off automatically.

! Switch on the auxiliary heating system at regular intervals (at least once a month) for approximately 10 minutes.

Make sure that the flow of hot air is not blocked. Otherwise, the auxiliary heating will overheat and switch off.

ℹ If the interior motion sensor is armed and the auxiliary heating is switched on, it is possible that the interior temperature monitoring may cause a false alarm. In this case, either deactivate the interior motion sensor or switch off the auxiliary heating.

You can switch the auxiliary heating on/off using:

- the on-board computer and the auxiliary heating switch (▷ page 5) or
- the auxiliary heating remote control (▷ page 7).

ℹ **USA only:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by Teltronic AG may void the FCC authorization to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

ℹ **Canada only:**

Licence exempt

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Before switching on

▶ The fuel tank must be at least one-quarter full.

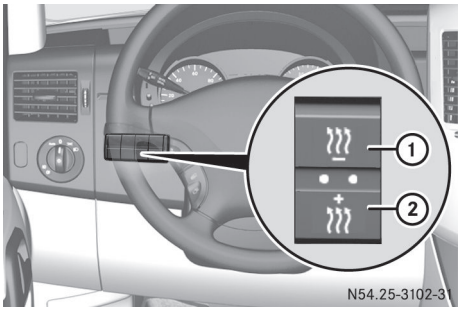
▶ Set the desired temperature using the temperature control of the heating or the air-conditioning system .

▶ Set the air distribution as required .

▶ Open the center and side air vents and set them to the middle position .

ℹ The auxiliary heating automatically switches to heater booster mode after the engine is started.

Operating using the switch



① To switch the auxiliary heating on/off

② To switch the heater booster function on/off (▷ page 9)

▶ **To switch on the auxiliary heating:** press the [ ] switch for longer than 2 seconds.

- The auxiliary heating heats or ventilates the interior to the temperature that you have set.
- The blower switches to the first level.
- The red indicator lamp in the switch comes on.

▶ **To switch off the auxiliary heating:** press the [ ] switch.

or

▶ Turn the key to position **0** in the ignition lock.
The red indicator lamp in the switch goes out.
The auxiliary heating operates for approximately another 2 minutes and then switches off automatically.

Selecting a switch-on time

You can use the on-board computer to define up to three switch-on times, one of which can be selected.

On-board computer without steering wheel buttons

▶ Turn the key to position **2** in the ignition lock.

▶ Press the [ ] switch.
The [ ] symbol in the display flashes.

or

▶ Press the (M) menu button on the instrument cluster repeatedly until the [ ] symbol flashes in the display.

▶ Use the (+) or (−) buttons on the instrument cluster to select switch-on time 1 to 3.
The switch-on time selected is displayed.

▶ Wait 10 seconds for the standard display to appear.
The switch-on time is selected. The yellow indicator lamp in the [ ] switch comes on.

If you have not preselected a switch-on time and --:-- is shown in the display, this means that automatic switch-on mode is deactivated. The yellow indicator lamp in the [ ] switch goes out.

ⓘ If you turn the key to position **0** in the ignition lock, the yellow indicator lamp in the [ ] switch goes out after 30 minutes.
The red indicator lamp in the [ ] switch comes on when the auxiliary heating switches on.

On-board computer with steering wheel buttons

▶ Turn the key to position **2** in the ignition lock.

▶ Press the [ ] switch.
The Aux. heat. submenu is shown in the display.
If no switch-on time has been preselected, the selection marker highlights the preselected switch-on time, or Timer off.

ⓘ You can also access the Aux. heat. submenu via the Settings menu.

▶ Use the [+] or [−] buttons on the steering wheel to select the desired switch-on time.
Use the Timer off setting to deactivate automatic switch on.

▶ Press the [ ] button on the steering wheel.
The switch-on time is selected. The yellow indicator lamp in the [ ] switch comes on.

ⓘ If you turn the key to position **0** in the ignition lock, the yellow indicator lamp in the [ ] switch goes out after 30 minutes.
The red indicator lamp in the [ ] switch comes on when the auxiliary heating switches on.

Setting the switch-on time

On-board computer without steering wheel buttons

▶ Use the same method to select a switch-on time as described in the "Preselecting a switch-on time" section.

▶ Press the (0) reset button on the instrument cluster.
The hour display flashes.

▶ Use the (+) and (−) buttons on the instrument cluster to set the hours.

▶ Press the (0) reset button.
The minute display flashes.

▶ Use the (+) and (−) buttons to set the minutes.

On-board computer with steering wheel buttons

▶ Use the same method to select a switch-on time as described in the "Preselecting a switch-on time" section.

▶ Press the [⏢] button on the steering wheel.
The Hours submenu is shown in the display.

▶ Press the [+] or [−] button on the steering wheel to set the hours.

▶ Press the [⏢] button.
The Minutes submenu is shown in the display.

▶ Press the [+] or [−] button to set the minutes.

▶ Press the [⊡] button.
The switch-on time is set and selected.

Operation using the remote control

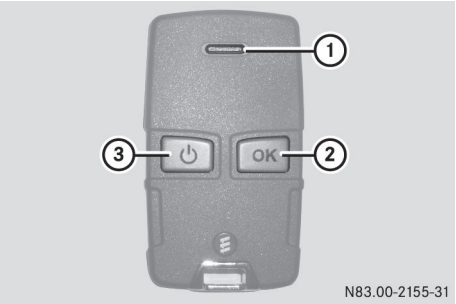
You can switch the auxiliary heating on/off and set the operating duration using the remote control.

The remote control has a maximum range of approximately 600 metres.

You can use up to four remote control units on the vehicle. These must be synchronised for the receiver in your vehicle (▷ page 8).

The range is reduced by:

- sources of interference
- solid objects between the remote control and the vehicle
- transmitting from an enclosed space
- the remote control being in an unfavourable position in relation to the vehicle



① Indicator lamp
② To confirm settings
③ To switch the remote control on/off, set the operating duration or end or cancel settings

indicator lamp ① lights up in various ways to show different operating modes:

Signalling	Meaning
Lights up red	Remote control switched on
	Data transfer
Flashes red	Auxiliary heating switched off
Lights up green	Auxiliary heating switched on
Flashes green	Change operating duration active
Flashes alternately red and green	Remote control in synchronising mode

▷ page
You can find further information on the lamp status in the "Problems with the auxiliary heating" section (▷ page 11).

Switching the remote control on/off

The remote control switches to standby mode after 10 seconds. The indicator lamp goes out.

▶ **To switch on:** press and hold the [⏻] button until the indicator lamp lights up red.

If there is a connection between the remote control and the receiver in the vehicle:

- the indicator lamp flashes red. The auxiliary heating is deactivated.

  or

- the indicator lamp lights up green. The auxiliary heating is activated.

▶ **To switch off:** press and hold the [⏻] button until the indicator lamp goes out.

Switching the auxiliary heating on/off

The remote control must be switched on (▷ page 7).

▶ **To switch on:** when the indicator lamp flashes red, press [OK].

The indicator lamp lights up red during data transfer.

When the indicator lamp lights up green, the auxiliary heating is activated.

▶ **To switch off:** when the indicator lamp lights up green, press [OK].

The indicator lamp lights up red during data transfer.

When the indicator lamp flashes red, the auxiliary heating is deactivated.

Changing the operating duration

The remote control must be switched on (▷ page 7).

▶ When the indicator lamp flashes red, press [⏻] and [OK] simultaneously.

The indicator lamp flashes green.

▶ Press the [⏻] button repeatedly until the desired operating duration is shown.

- 20 minutes

  The indicator lamp flashes green twice.

- 30 minutes

  The indicator lamp flashes green three times.

- 40 minutes

  The indicator lamp flashes green four times.

- 60 minutes

  The indicator lamp flashes green six times.

▶ Press the [OK] button.

The indicator lamp lights up red during data transfer.

If the indicator lamp emits two long, green flashes, the selected operating duration is stored.

ℹ If no adjustment is made, the indicator lamp flashes six times and the remote control goes into standby mode.

Synchronising the remote control

▶ Press the [≋] auxiliary heating switch (▷ page 5) for longer than 10 seconds.

The red indicator lamp in the [≋] switch remains lit until the switch is released.

If the red indicator lamp in the [≋] switch flashes, the receiver in the vehicle is ready for synchronising.

▶ Press and hold the [⏻] button on the remote control until the indicator lamp on the remote control lights up red.

If there is an active connection between the remote control and the receiver, the indicator lamp on the remote control flashes alternately red and green. The remote control is in synchronising mode.

ℹ If you press the [⏻] button again on the remote control after starting synchronisation, you will only synchronise this remote control unit with the receiver. Any other remote control units that were synchronised will be cleared. The indicator lamp flashes alternately red and green (very slowly).

▶ Press the [OK] button on the remote control.

The remote control indicator lamp lights up red during data transfer.

When the remote control indicator lamp emits two long green flashes, the selected operating time is synchronised. The indicator lamp in the [ ] auxiliary heating switch goes out.

Changing the battery

WARNING

Batteries contain poisonous substances.

Swallowing/ingesting batteries can result in serious personal injury or death.

Always keep batteries away from children. If a battery is swallowed, seek immediate medical attention.

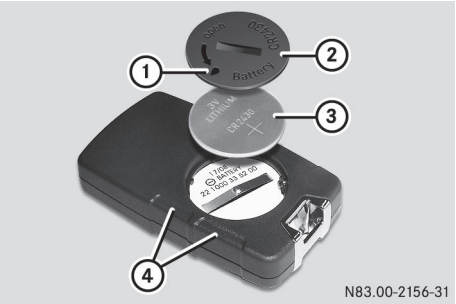
Environmental note

Batteries contain pollutants. It is illegal to dispose of them with the household rubbish. They must be collected separately and disposed of in an environmentally responsible recycling system.

Dispose of batteries in an environmentally responsible manner. Take discharged batteries to a qualified specialist workshop or to a collection point for used batteries.

If the indicator lamp on the remote control flashes red rapidly, the remote control battery is discharged. You should replace the remote control battery.

You need a battery of the type CR2430.



① Mark
② Battery cover
③ Battery
④ Recesses in the housing

▶ Remove battery cover ② using a suitable implement, e.g. a coin, by turning it anticlockwise.

▶ Check the seal on battery cover ② for damage and if necessary replace.

▶ Remove old battery ③.

ℹ When inserting the battery, make sure that it is clean and lint-free.

▶ Insert new battery ③ so that the positive terminal and battery type marking is face up. Use a lint-free cloth to do so.

▶ Position battery cover ② so that mark ① on the raised area, points between two recesses ④.

▶ Remove battery cover ② using a suitable implement, e.g. a coin, by turning it anticlockwise to the stop.

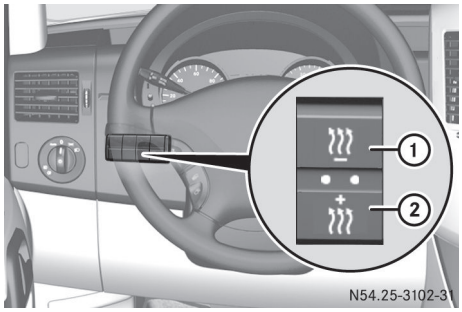
▶ Check all the functions of the remote control (▷ page 7).

Heater booster function

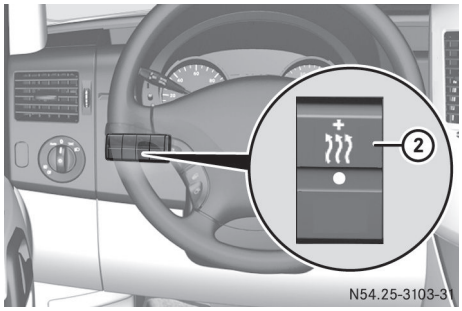
At an outside temperature of up to 39 °F (4 °C), the fuel-fired auxiliary heating heats the vehicle interior as quickly as possible when the engine is running.

The auxiliary heating automatically switches to heater booster mode after the engine is started.

ℹ At an outside temperature above 39 °F (4 °C), the auxiliary heating system and the heater booster function switch off automatically.



Vehicles with auxiliary heating



① To switch the auxiliary heating on/off

② To switch the heater booster function on/off

▶ **To switch on/off:** press the switch. The indicator lamp in the switch lights up if the heater booster function is switched on.

After switching off, the auxiliary heating operates for approximately another 2 minutes and then switches off automatically.

If you switch off the engine without switching off the heater booster function, the system will be switched on the next time the engine is started (memory function).

Problems with the auxiliary heating

⚠ **WARNING**

If service work is not carried out correctly, the operating safety of your vehicle may be affected. This could cause you to lose control of your vehicle and cause an accident. Moreover, the safety systems may no longer be able to protect you or others as they are designed to do.

Always have service work carried out at a qualified specialist workshop.

Problem	Mögliche Ursachen/Folgen und ▶ Lösungen
The indicator lamp on the remote control flashes red rapidly.	The remote control battery is discharged. Communication is not possible. ▶ Replace the remote control battery (▷ page 9).
The indicator lamp on the remote control flashes red and green in rapid succession.	There is no connection between the remote control and the receiver in the vehicle. ▶ Change your position in relation to the vehicle, e.g. hold the remote control higher or to the side. ▶ Move closer. If you cannot establish a connection and the auxiliary heating is switched on, it can then only be deactivated using the [ ] switch (▷ page 5).
The indicator lamp on the remote control flashes red and green in rapid succession.	Several remote controls are being used at the same time. ▶ Switch on the remote control again after a short while (▷ page 7).
The indicator lamp on the remote control flashes red and green in rapid succession.	The remote control is not synchronised. ▶ Synchronise the remote control (▷ page 8)
The indicator lamp on the remote control slowly flashes red and green alternately.	The remote control is being synchronised. ▶ Wait until the remote control synchronisation process is complete (▷ page 8).
The remote control for the auxiliary heating cannot be switched on.	The remote control battery is discharged. ▶ Replace the remote control battery (▷ page 9).
The auxiliary heating does not switch on.	The outside temperature is above 39 °F (4 °C). The auxiliary heating switches off automatically.

Problem	Mögliche Ursachen/Folgen und ▶ Lösungen
The auxiliary heating switches off automatically and/or cannot be switched on.	Lack of fuel The fuel tank is less than one quarter full. The auxiliary heating switches off automatically. ▶ Refuel at the nearest filling station. ▶ Then, start the auxiliary heating several times until the fuel lines are full.
The auxiliary heating switches off automatically and/or cannot be switched on.	The low-voltage protection system integrated in the control unit switches off the auxiliary heating because the on-board voltage is less than 10 V. ▶ Have the alternator and battery checked.
The auxiliary heating switches off automatically and/or cannot be switched on.	The fuse is blown. ▶ Replace the fuse; see the "Fuse allocation" supplement. ▶ Have the cause of the blown fuse determined at a qualified specialist workshop.
The auxiliary heating switches off automatically and/or cannot be switched on.	A malfunction has occurred. ▶ Switch the ignition on and off twice. If the auxiliary heating still cannot be switched on, the heating device is faulty. ▶ Have the auxiliary heating checked at a qualified specialist workshop.
The auxiliary heating is overheated.	The coolant level is too low. ▶ Check the coolant level and top up if necessary .