

Operating instructions



Feel the drive

GBW 300 NGW 300/LGW 300

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General information!

Dear Webasto user,
We assume that the operation and function of your new heater will have been explained to you properly and to your complete satisfaction by the installing workshop/service outlet. This owner's handbook is designed to give you a brief summary of how to use the GBW 300 heater.

Maintenance and safety instructions

The Federal Department of Motor Vehicles has issued a "General type approval" and a type approval pursuant to Directive 72/245/EEC (EMC) for the region covered by the German Road Traffic Act.

The heaters must be installed as described in the attached installation instructions and must be registered on the vehicle registration document. If applicable, the approval confirmation or the general operating licence must be carried in the vehicle.

The year in which the heater is used for the first time must be permanently marked on the heater's model plate by removing the inapplicable year numbers.

The heater must **not be operated**:



Danger of fire, explosion
and asphyxiation

- In filling stations and tank farms.
- In places where explosive vapours or dust may build up (e.g. near fuel, coal, wood dust or cereal stores).
- near inflammable materials such as dry grass and leaves, cartons, paper, etc.
- in enclosed areas (for example garages), not even if the timer or Telestart unit is used.
- NGW 300 at temperatures of less than -25°C and the LGW 300 heater at temperatures of less than -20°C .
- At altitudes of over 1500 m.

The heater **must not**:



- be exposed to temperatures of more than 120°C (storage temperature), otherwise the electronics may suffer permanent damage.
- be operated without at least 20% brandname anti-freeze in the water of the heating circuit.

The heater **must**:



- be operated using the gas type shown on the model plate (for the NGW 300 with a minimum methane content of 95%) and the rated voltage shown on the model plate. If the methane content is lower than this, the heater's gas nozzle is to be adjusted by Webasto trained personnel. The oil content of the gas must not exceed 70 ppm.
- be taken out of operation by removing the fuse if smoke develops, if unusual burning noises are heard or if there is a smell of fuel. The heater must not be restarted until the unit has been checked by personnel duly trained by Webasto.
- be run for 10 minutes at least once per months when the engine is cold and with the blower at its lowest setting. At the latest at the start of the cold weather the heater must be inspected by an expert. For this purpose the CO value must be checked and adjusted. In addition it must be checked whether disconnecting the control valve results in the immediately extinguishing of the flame (burning noise). If not, the controller must be replaced.

The gas controller **must**:



- be replaced after four years for safety reasons (manufacturer's directive). If you fail to do this it may leak and gas may escape.
- be drained of oil through the oil drain screw every three months (by Webasto trained personnel).

Liability:



- Non-compliance with the installation instructions and the warnings contained therein will lead to the exclusion of all liability by Webasto. The same also applies if repairs are not undertaken by professionals or without using genuine spare parts. This invalidates the type approval for the heater and its homologation / EC type permit.
- Liability claims can only be made if the claimant can verify compliance with all the servicing and safety instructions.



Heater operation







The water heater can be switched on using either a switch or timer. Before switching on the heater, the vehicle heating must be set to "warm". The heater fan in the vehicle should be set to the 1st speed in the case of a 3-speed fan and to the 2nd speed in the case of a 4-speed fan. Fans with infinitely variable speed should be set to at least 1/3 of the fan performance.

Troubleshooting

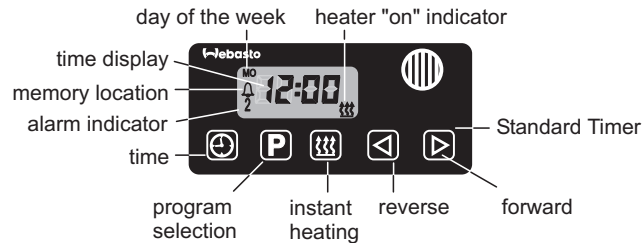
If a fault occurs, check the fuse and the plug connectors to ensure that they are in perfect condition and secure. If the action described below does not rectify the fault, have the heater checked by Webasto trained personnel.

The heater cuts out automatically

| Cause | Remedy |
|---|--|
| No flame after the start | Switch the heater off and on again once |
| The flame goes out during operation | Switch the heater off and on again once |
| The vehicle's voltage is too low | Charge the battery Switch the heater off and on again once |
| The combustion air and/or exhaust lines are blocked | Check that the combustion air and exhaust lines are clear |



Standard Timer



| | |
|------------------|--|
| General | <p>The standard digital timer enables you to preset the start of the heater operation up to 7 days in advance. It is possible to program 3 different starting times, only one of which can be activated.</p> <p>The standard digital timer features a wakeup alarm function. When the ignition switched on, the timer displays the current time and the day of the week. When the heater is switched on, the display and the buttons are illuminated.</p> <p>After the power supply has been connected, all symbols on the display will flash. The current time and weekday must be set.</p> |
| Operation | <p>The timer can be operated in that all flashing symbols can be adjusted by means of the ← and → buttons. If the buttons are not pressed within 5 seconds, the time displayed will be stored. If the ← and → buttons are pressed for more than 2 seconds, the fast time-setting mode is activated.</p> <p>If the ignition is switched off while the heater is operating in the continuous mode, the remaining operating time of 15 minutes is displayed and the heater continues to operate for this period of time.</p> |

| | |
|---|--|
| Switching the heater on | <p>Manually: by pressing the button ⏻ (continuous heating mode) Automatically: by programming the heater starting time</p> |
| Switching the heater off | <p>Manually: by pressing the button ⏻ Automatically: after the programmed operating time has elapsed With the heater running: by programming the remaining operating time</p> |
| Setting time/ day of the week | <p>Press the ⌚ button for more than 2 seconds - time of the day is flashing - and set the clock using the ← and → buttons. Day of the week is flashing - adjust the day of the week.</p> |
| Viewing the time | <p>With the ignition switched off: press the ⌚ button</p> |
| Programming heater starting time | <p>Press the P button - the memory location is flashing - using the ← and → buttons set start of the heater operating time. Day of the week is flashing - set the day of the week. By repeatedly pressing the P button, memory locations 2 and 3 can be programmed or the time display mode can be reached.</p> |
| Recalling/ erasing preset times | <p>Repeatedly press the P button until the desired memory location is displayed. To erase the preset time, press the P button several times until the time of the day is displayed instead of the memory</p> |
| Programming duration of operating time | <p>The heater must be switched off. Press the ← button for 3 seconds - operating time is flashing - and set the desired operating time (10 to 120 minutes) using the ← and → buttons.</p> |
| Setting the remaining operating time | <p>Set the desired remaining operating time (1 to 120 minutes) using the ← and → buttons. The remaining operating time refers to the time the heater still continues to remain in operation. It can only be changed while the heater is in operation and the ignition switched off.</p> |
| Setting the wakeup time | <p>A wakeup time can only be programmed on the standard digital timer. The wakeup time is not bound to a specific day of the week. Repeatedly press the P button until the bell symbol 🔔 appears on the display. Set the desired wakeup time using the ← and → buttons. The alarm clock turns off after 5 minutes or when one of the buttons is pressed.</p> |
| Recalling/ erasing the wakeup time | <p>Repeatedly press the P button until the bell symbol 🔔 appears on the display - read off wakeup time. To erase the wakeup time: press the P button until the bell symbol 🔔 is no longer visible on the display.</p> |
| Remote control | <p>Possible by means of an optional external "instant heating" button</p> |