

Operating Instructions Water Heater Thermo 50



Webasto Thermo & Comfort N.A., Inc.
15083 North Road, Fenton, MI 48430
www.webasto.us www.techwebasto.com

General information

Dear Webasto user

We presume that the principle and mode of operation of your new heater has been explained to your complete satisfaction by the workshop / service center which installed the heater. This manual summarizes the main points of importance for using the heaters Thermo 50.

Maintenance and safety instructions

The units must be installed in accordance with the enclosed installation instructions. The equipment must be installed in accordance with the enclosed installation instructions. The installation must be checked in accordance with statutory installation provisions. Refer to the installation instructions for more details.

The year in which the heater is used for the first time must be permanently marked on the rating plate by removing the inapplicable year figures.

DANGER: Heater must be switched "off" when refueling at filling stations and/or while loading or unloading flammable materials for transport, to prevent the risk of explosion. Please review owner's manual for safety and use instructions.

The heater must not be operated:



Danger of explosion
and suffocation!

- 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).
- In enclosed rooms (e.g. garages), not even via the timer or Telestart.

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 with the fuel specified on the rating plate and at the nominal voltage specified on the rating plate.
- 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 operated for 10 minutes at least once per month, with the engine cold and the fan set to the minimum setting. The heater must be inspected by a specialist at the beginning of the heating season or earlier.
- 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.

Warranty

Webasto Thermo & Comfort North America, Inc. (hereinafter referred to as Webasto) warrants their heaters and heater kits against defects in material and workmanship for two (2) years effective at the time of installation or vehicle registration date for original equipment installation (OEM). This warranty period may not exceed three (3) years from the original date of sale by Webasto. This warranty period may be superseded by written contractual agreements.

All models are limited to 2,000 maximum operating hours.

Replacement parts are covered for six (6) months or the remainder of the original warranty period, whichever is longer.

The intent of the Webasto warranty is to protect the original end-user of the heater from defects and provide free repair and replacement of defective parts in the manner provided herein. During the warranty period, the exclusive remedy will be for Webasto, at their discretion, to repair or replace those parts which are demonstrated to be defective in material or workmanship.

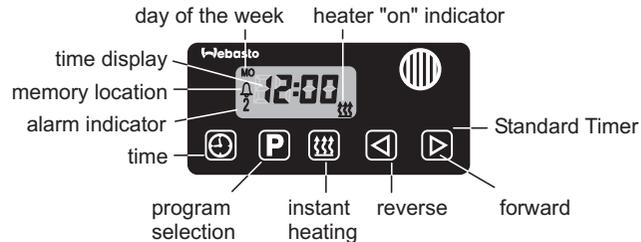
While warranty is provided to the "original end-user", it is to be administered and serviced through an authorized Webasto dealer in accordance with the Webasto warranty policy or contractual agreement between Webasto and a second party.

To locate the nearest Webasto authorized dealer for warranty service: visit <http://www.techwebasto.com> or call (800) 860-7866 in USA, (800) 667-8900 in Canada.

Operation of the heater

Before switching the heater on, set the vehicle heating system to the "warm" position and the vehicle heater fan to the lowest setting (less power consumption!)

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>

Troubleshooting

In the event of a malfunction, fuses and electrical connections should be checked for proper condition and security.
In the event of a malfunction, the heater will shut down in its fault lock-out mode. Following any fault lock-out condition, coded flashing signals will be emitted by the operation indicator, or a fault code will appear on the display of the timer. For details on the meaning of the fault code, refer to the last page.

Heater Lock out Reset Procedure:

1. Using switch or standard timer control, turn heater on.
2. Remove the main power connection to heater from battery or pull fuse for a minimum of 20 seconds.
3. Using switch or standard timer control, turn the heater off.
4. Reinstall main heater power connection where previously disconnected.

Rectify the cause of the fault.

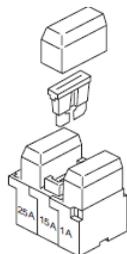
IMPORTANT: Heater fault codes can be read using PC Diagnostics, however, the heater lockout reset must be manually performed using the procedure stated above.

If you have any questions, contact our technical support team at (800) 860-7866 or via email at: info-us@webasto.com.

Note:

The heater will start operating as soon as the fuse is replaced!

If this action does not correct the malfunction, consult your authorised Webasto dealer



Product Registration

The heater can be registered by visiting www.techwebasto.com or by scanning the code.

A proof of purchase is required for all heaters that are not registered.



Fault Code Display

After the occurrence of a malfunction, the fault is indicated on the display of the digital timer if the heater is equipped with a standard digital timer.

Fault Codes on the Display of the Combination Timer

NOTE:

If the heater is activated by the switch, the types of malfunctions are indicated by coded flashing signals via the operation indicator light during the after-run period of the heater. The coded flashing signals correspond to the numbers in the table below

F 01	No start-up
F 02	Flame extinguished (at least > 5)
F 03	Undervoltage or overvoltage
F 04	Premature flame detection
F 05	Circulating pump interruption or circulation pump short circuit
F 06	Temperature sensor interruption or temperature sensor short-circuit
F 07	Metering pump interruption or metering pump short-circuit
F 08	Fan motor interruption or fan motor short-circuit or incorrect fan motor speed
F 09	Pencil-type glow plug/flame detector interruption or pencil-type glow plug/flame detector short-circuit
F 10	Overheating

Subject to changes