

Telestart T91



Operating Instructions for Telestart T91

General Information

Dear Webasto customer!

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We are delighted that you have selected this Webasto product.

We presume that the principle and mode of operation of this product has been explained to your complete satisfaction by the workshop/service centre which installed it. In these operating instructions we would like to once again provide you with an overview of the safe use of this product.

The Telestart T91 heater control complies with the homologation approval in accordance with the directive 72/245/EEC (EMC).

Note: The battery used is fully operational, however is subject to function-dependent discharging when installed. Therefore, we expressly recommend observing the information on Page 32 when the Telestart is not used for longer periods.





Danger of fire, explosion
and suffocation

The heater **must not be operated**:

- In filling stations and tank farms.
- At locations at which highly flammable gases or dusts can form, and at locations at which highly flammable liquids or solid materials are stored (e.g. near fuel, coal and wood dust, grain warehouses, dry grass and leaves, cardboard, paper, etc.)
- In enclosed rooms (e.g. garages), not even via the timer or Telestart.

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Care and Handling

Note the following points to avoid damage to the Telestart T91:

- Do not expose to heat above 70 °C (e.g. direct sunlight).
- Operating temperature between 0 °C and +50 °C.
- Only store in a dry place where there is little dust.
- Do not immerse in water.

Use

With the Webasto Telearstart T91, the Webasto heaters of the Thermo Top series or the vehicle fan can be switched on and off wirelessly from a great distance.

With the Thermo Top Evo heater which is connected to the Telearstart T91 via W bus communication, a change in the mode must be carried out on the transmitter to switch on the parking ventilation (ventilation of the vehicle interior) (see the point "Setting Mode").

For Thermo Top E and C heaters with an analogue connection to the Telearstart T91, the parking ventilation function (ventilation of the vehicle interior) can only be ensured by also installing a summer/winter switch (option). A mode change on the transmitter is not required for this purpose, as the "parking heating" or "parking ventilation" function is determined by the switch position of the summer/winter switch.

Restrictions of the range of functions can occur when factory-installed heaters are retrofitted. Please have these explained by your installation partner.

Optimum signal transmission is achieved out in the open or from a position higher than the vehicle. In this case, the parking heater can be operated at a distance of approx. 1000 m from the vehicle. When operating the transmitter, please hold it vertically pointing upward and do not cover the upper side (see illustration). If you determine from the lack of feedback that the operating signal has not reached the vehicle, then you must change your position by a few metres. Reception quality is impaired accordingly in heavily built-up areas.

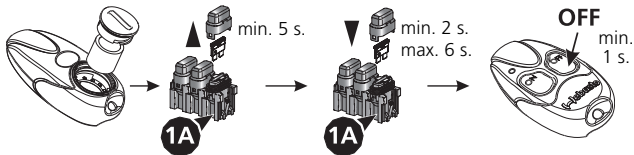


After the selected switch-on duration expires, the transmission of the switch-on signal to the heater is interrupted and the function currently running (parking heating or parking ventilation) is ended automatically.

Teaching In Telestart Transmitter for Thermo Top E and C

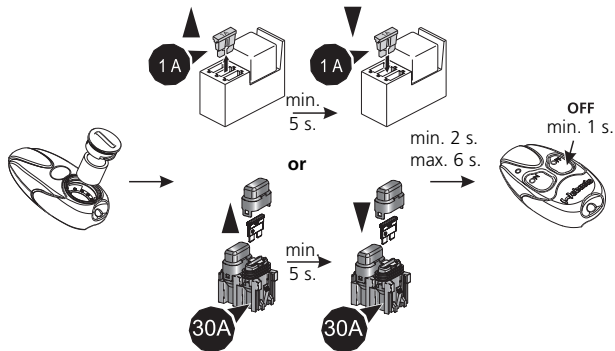
1. Insert the battery in the battery compartment of the transmitter.
2. Remove the 1 A fuse (black) from the heater's fuse holder (voltage interruption of receiver).
3. Wait at least 5 seconds and refit the fuse.
4. After approximately 2 seconds, however within 6 seconds, press the **OFF** button on the transmitter for at least 1 second.
5. Teaching is completed.

A maximum of 4 hand-held transmitters can be taught in this way. During additional teaching processes, the "oldest" transmitter will be deleted each time.



Teaching in Telestart Transmitter for Thermo Top Evo

As described above for the Thermo Top E and C, however remove either 1 A fuse (black, vehicle interior) or 30 A fuse (green, engine compartment) (voltage interruption for receiver).



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Checking Mode

Simultaneously press and hold down the **ON-** and **OFF-** buttons.

LED lights up:

red = Heating mode

green = Ventilation mode*

LED extinguishes:

- when the buttons are released, or
- after 3 seconds

* *Please observe the information under "Use".*

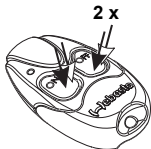


Setting Mode

Depress the **ON-** and **OFF** buttons simultaneously twice within one second.

Upon the second actuation, the LED will change its colour and illuminate until the buttons are released (illuminates for max. 3 seconds).

The new mode is stored when the button is released.



Feedback from Transmitter Upon Turning On/Off

The LED on the transmitter lights up for 2 seconds:

red = Heating mode

green = Ventilation mode*

The signal has been received and the heater / vehicle fan switched on or off.

The LED on the transmitter flashes for 2 seconds.

Error during signal transmission.
Change your location and repeat transmission.

Switching On Heater or Ventilation*

Hold the transmitter with the aerial upright and press the **ON** button until the LED lights up (approx. 1 second). The Telestart receiver in the vehicle transmits a confirmation of the reception (see overview above: "Feedback"). Then the forwarding of the signal to the heater is confirmed with brief flashing signals (every 2 seconds). The operation indicator extinguishes:

- After the preset operating time has elapsed
- After switching off with Telestart.

* Please observe the information under "Use".



NOTE:

If no special instructions on adjusting the vehicle heater during parking heating operation are available, then the vehicle heater must be set to "warm" before switching on the heater.

In the heating and ventilation modes, the vehicle fan switch is to be turned to position 1 in the case of 3-speed blower fans, and to position 2 in the case of 4-speed blower fans.

In the case of infinitely variable fans adjust to at least 1/3 of the fan's capacity.

Switching Off Heater or Ventilation

Hold the transmitter with the aerial upright and press the **OFF** button until the LED lights up (approx. 1 second). The Telearstart T91 in the vehicle will send a feedback signal.



Switching Off Using Pushbutton Switch

If the heater was activated by means of Telearstart, the pushbutton switch must be pressed once for deactivation.

Switching On/Off Using Pushbutton Switch

The parking heating or parking ventilation mode is indicated by a light in the pushbutton.

NOTE:

When the pushbutton switch is used for activating the heater, the operating mode (parking heating or parking ventilation) and the operating duration most recently used with Telearstart T91 will be selected.

Switching On Using a Digital Timer (Immediate Heat Button)

Operation is indicated on the digital timer. The display lighting lights up.

NOTE:

When switching on with the digital timer (immediate heat button), the parking heating mode is always selected. The switch-on duration is specified by the digital timer.

Switching On with Telearstart T91 with Digital Timer Installed

Operation is indicated on the digital timer. The display lighting lights up.

NOTE:

This display is only possible with the Thermo Top Evo heater, as it is connected to the Telearstart T91 via W bus communication.

Switching Off Using a Digital Timer

If the heater was activated using Telearstart, the immediate heat button must be pressed **twice** to deactivate the heater.

When connecting the Telearstart T91 and the digital timer to a Thermo Top Evo, only a **single** press of the button is required due to the connection via W bus communication.

Switching On with Telearstart T91 with Summer/Winter Switch Installed (Option)

The "parking ventilation" or "parking heating" function is determined by the switch position of the summer/winter switch. Please also observe the point "Use" for this purpose.

Checking and Setting Operating Time

The operating time of the heater or the vehicle's fan can be preset on the transmitter in increments of 10 minutes. The operating time is factory-set at 30 minutes.

NOTE:

Make sure that the car battery is recharged sufficiently if you use the system frequently and for a long period.

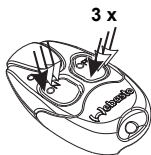
We recommend setting the heating time according to the drive time.

Example: The vehicle is used for travelling to work and back.

With a driving time of approx. 30 minutes (one way), we recommend setting an operating time of 30 minutes.

Checking Operating Time

Simultaneously briefly press the **ON** and **OFF** button three times consecutively.



The LED flashes in accordance with the preset operating time.

No. of coded flashing signals	1	2	3	4	5	6
Operating time	10 min.	20 min.	30 min.	40 min.	50 min.	60 min.
No. of coded flashing signals	7	8	9	10	11	12
Operating time	70 min.	80 min.	90 min.	100 min.	110 min.	120 min.

NOTE:

The first coded flashing signal that is emitted immediately upon the third actuation of both buttons has to be included into the count.

Setting Operating Time

Press the **OFF** button to call up the next operating time.

To store the setting:

- do not actuate any button for 10 seconds, or
- actuate the **ON** button.



Returning to Factory Setting

Simultaneously press the **ON** and **OFF** button for at least 15 seconds.

NOTE:

Colour changes on the LED which occur in the process can be ignored.

Factory setting:

- Mode: Heating
- Operating time: 30 minutes



Procedure after not using for longer time

When the hand-held transmitter is not used for longer periods, we recommend removing the battery from the hand-held transmitter to increase battery life.

Caution:

Do not store in the vehicle, but instead in a dry place at room temperature.

Returning to use:

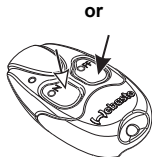
1. Insert the battery in the battery compartment of the transmitter.
2. Press the **OFF** button six times for 2 seconds at intervals of approx. 2 seconds.
3. Observe a waiting time of approx. two minutes.

If the hand-held transmitter does not function after returning it to use, then an operating test of the battery (see point "Checking Battery") must be carried out.

Checking Battery

Press the **ON** or **OFF** button.

LED	Battery	Action
lights up for 2 seconds in green or red	full	Battery OK ATTENTION: Heater could be activated or deactivated in the process.
flashes for 2 seconds in green or red	full	Battery OK ATTENTION: Receiver too far away or transmitter not taught.
lights up for 2 seconds in orange	almost spent	replace battery as soon as possible or warm up transmitter
flashes orange very quickly for 5 seconds	discharged	Replace battery.
no display	drained	Replace battery.



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Battery Change/Disposal Information

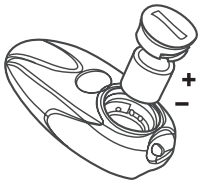
NOTE:

Batteries and electronic devices are the object of the European Directive 2006/66/EC or 2002/96/EC in the current versions and must not be disposed of as household waste.

Every consumer is therefore legally obligated to dispose of batteries and used/scrap electronic devices in the marked recycling containers at a waste collection point or in the retail trade. Return is free of charge.

CAUTION:

There is a danger of explosion in case of improper battery replacement! Ensure proper polarity when inserting the battery.



Bei mehrsprachiger Ausführung ist Deutsch verbindlich.

Die Telefonnummer des jeweiligen Landes entnehmen Sie bitte dem Webasto Servicestellenfaltblatt oder der Webseite Ihrer jeweiligen Webasto-Landesvertretung.

In multilingual versions the German language is binding.

The telephone number of each country can be found in the Webasto service center leaflet or the website of the respective Webasto representative of your country.

Dans le cas d'une version rédigée en plusieurs langues, l'allemand est alors la langue qui fait foi.

Pour trouver le numéro de téléphone du pays concerné, veuillez consulter le dépliant des points-service Webasto ou la page web de la représentation Webasto de votre pays.

Nel caso di una versione plurilingue il tedesco è vincolante.

I numeri di telefono dei diversi Paesi sono riportati sul pieghevole relativo ai centri di assistenza Webasto oppure sul sito Internet del proprio rappresentante di riferimento Webasto.

Este manual esta traducido en varios idiomas, le informamos que sólo la versión en alemán será vinculante.

Consulte el número de teléfono del país correspondiente en el folleto de los servicios autorizados Webasto, o en la página web de su representante Webasto.

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