

Operating Instructions

T91 Telestart



1 About this document

1.1 Purpose of the document

These operating instructions are part of the product and provide the user with information on the safe operation of the Telestart T91.

All the functions of the control element are explained in these operating instructions.



NOTE

Carefully read through and follow the heater operating instructions and the safety information contained therein.



NOTE

The actual availability of these functions depends on each installed heater.

1.2 Using this document

- Before operating the Telestart T91, carefully read and follow these operating instructions as well as the operating instructions for the heater.
- Hand over the data carrier (e.g. CD or DVD) and the quick start guide(s) to the subsequent device owner or user.

1.3 Use of symbols and highlighting

Texts with the symbol refer to separate documents which are enclosed or can be requested from Webasto. Texts with the symbol refer to technical features. Texts with the symbol or refer to possible material damage, risk of accident or injury. Text with the symbol describes a necessary action. Text with the symbol describes an action.

2 Warranty and liability

Webasto shall not assume liability for defects or damage that are the result of the installation and operating instructions being disregarded. This liability exclusion particularly applies for:

- mechanical damage to the equipment
- installation by untrained personnel
- failure to comply with inspection and service instructions
- conversion of the unit without permission from Webasto
- improper use
- repairs not carried out by a Webasto service workshop

3 General safety information



DANGER

Danger of explosion

In environments with combustible vapours, flammable dust and hazardous goods (e.g., petrol stations, tank facilities, fuel store, coal bunkers, timber yard or grain warehouses).

- ▶ Do not switch on or operate the heater.



DANGER

Inhaling poisonous gases in the enclosed rooms

Poisoning and danger of suffocation.

- ▶ Do not operate the heater (also not with programmed heating start) in closed rooms that do not have an exhaust extraction unit.



DANGER

Danger of fire

Flammable materials or liquids in the hot air flow (air heaters)

- ▶ Keep the hot air flow free.



ATTENTION

Risk of injury from the defective unit

- ▶ Do not operate a defective Telestart T91.
- ▶ Contact a Webasto service workshop.

4 Intended use

The control element Telestart T91 is currently approved for the following applications:

Switching Webasto water or air heaters on and off.

5 Overview



- 1 Operating indicator (LED)
- 2 Switch "ON" push button
- 3 Switch "OFF" push button

Button	Control
ON	Switching on heater or ventilation
OFF	Switching off heater or ventilation
ON+OFF	Change ON time, see "Switching on the heater on page 6" Change operating mode, see "Changing the heating or ventilation operating mode on page 7" Check battery, see "Battery for hand-held transmitter on page 9"

6 Functional description



Fig. 1: Operation example

An optimum signal transmission is achieved in an open area or from elevated locations. This makes it possible to operate the parking heater at distance of approximately 1000 m from the vehicle.

When pressing the transmitter, hold it vertically upwards and do not cover the top (see figure).

If you determine, since there is no feedback, that the operating signal has not reached the vehicle, it frequently helps to change your location by a few meters. Reception in built-up areas is limited accordingly.



NOTE

When retrofitting heaters that are installed ex-works, the range of functions may be limited. Please consult your installation partner about this.

7 Setting up a vehicle heating system

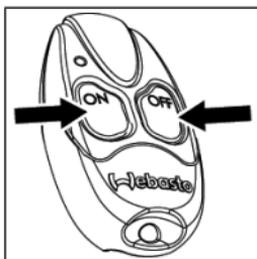
- ▶ Before switching on the heater (with the ignition on), set the vehicle heating system to “warm”.
- ▶ Set the vehicle fan to the lowest setting (lower power consumption).



NOTE

Depending on the type of vehicle, the air-conditioning system can perform these settings automatically or partly autonomously. Ask your specialist dealer to explain the optimum settings.

8 Operating mode indicator



- ▶ Press and hold the ON and OFF push buttons simultaneously.

The operating indicator lights up. The operating mode is displayed:

- Red for heating
- Green for ventilation

- ▶ Release the ON and OFF push button (or after 3 seconds):

The operating indicator goes out.



NOTE

The ventilation function is optional.

9 Operating time

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



Check the operating time

- ▶ Briefly press the ON and OFF push button simultaneously 3x consecutively.

The LED flashes according to the operating time. Count the number of flashing pulses. The corresponding operating time is specified in the table. Also count the first flashing pulse that appears immediately after the third time the ON and OFF push button is pressed.

Setting the operating time

- ▶ Briefly press the ON and OFF push buttons simultaneously 3x consecutively. The LED flashes according to the set operating time (see table).
- ▶ Press the OFF push button within 10 seconds after the operating time indicator lights up. The operating indicator flashes according to the next operating time.
- ▶ Press the OFF push button until the operating indicator flashes according to the desired operating time.



NOTE

Save the setting: do not press any push button or the ON push button for 10 seconds.

Flashing pulses (number)	Operating time (minutes)	Flashing pulses (number)	Operating time (minutes)
1	10	7	70
2	20	8	80
3	30	9	90
4	40	10	100
5	50	11	110
6	60	12	120

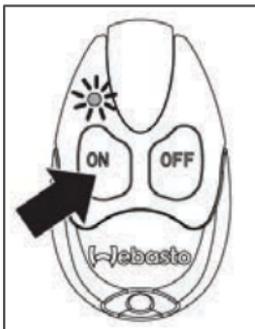


NOTE

Reset to default settings.

- ▶ Press the ON and OFF push buttons simultaneously for at least 15 seconds. Ignore colour changes that occur in the LED. Factory setting: heating mode, operating time 30 minutes

10 Switching on the heater



- ✓ Hold the hand-held transmitter vertically upwards.
- ▶ Press the ON push button (> 1 sec.) until the operating indicator lights up.

The operating indicator lights up (confirmation of reception). The operating indicator then flashes until the set operating time is complete. (See "Operating time on page 5").

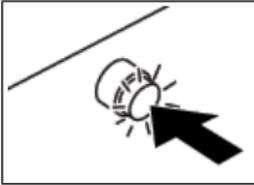


NOTE

If the signal cannot be transmitted correctly, the LED flashes (approx. 2 seconds) and then goes out.

- ▶ Repeat this procedure at a different location with better reception.

10.1 Switching on and off with the push button



✓ The parking heater or parking ventilation mode is displayed on the push button.

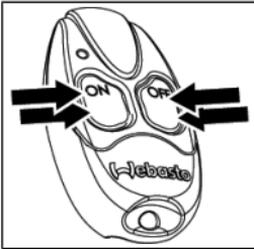
- ▶ Press the push button (switch the heater or ventilation on or off)



NOTE

When switching the unit on with the push button, the operating mode (parking heater or parking ventilation) and the operating time, which were last used with the hand-held transmitter, are always selected.

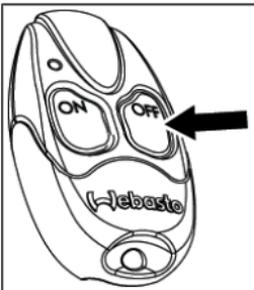
11 Changing the heating or ventilation operating mode



- ▶ Briefly press the ON and OFF push button 2x within 1 second.

The operating indicator changes colour. During the next time when the hand-held transmitter is operated, the heater operates in the selected operating mode until the operating mode changes. See "Operating mode indicator on page 5".

12 Switching off the heater



✓ The operating indicator flashes (the heater is operating).

- ▶ Press the OFF push button until the operating indicator lights up (approx. 1 sec.). Afterwards, the operating indicator goes out. See also "Switching on the heater on page 6"



NOTE

If the signal cannot be transmitted correctly, the LED flashes (approx. 2 seconds) and then goes out.

- ▶ Repeat this procedure at a different location with better reception.

13 Teaching the hand-held transmitter

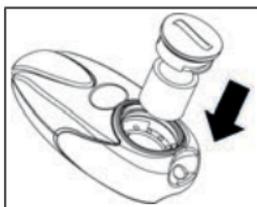
The hand-held transmitter must be taught on the Telearstartmodule in the vehicle.

13.1 Determining the installation position of the fuse

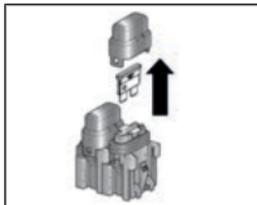
Depending on the heater and its installation or application, the control element fuse Telearstart T91 is installed in the engine compartment or the vehicle interior.

- ✓ The installation position is noted in the installation instructions during installation.
- ▶ Determine the correct fuse installation position of the Telearstart T91 in the vehicle.

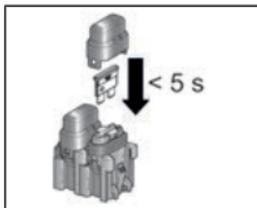
13.2 Teaching the unit



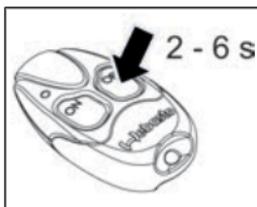
- ▶ Install the battery in the hand-held transmitter



- ▶ Determine the fuse installation position of the Telearstart module (image serves as an example, in the heater's wiring harness)
- ▶ Pull the fuse of the Telearstart module



- ▶ Reset the fuse (do not wait longer than 5 s)



- ▶ Press the OFF push button after 2 s (do not wait for longer than 6 s). The hand-held transmitter has now been taught.

14 Battery for hand-held transmitter



ATTENTION

Improper use can cause the batteries to leak, overheat or explode.

- ▶ When handling the battery, follow all instructions and warnings that are supplied with or printed on the battery.
- ▶ The battery is not rechargeable therefore never attempt to charge the battery.
- ▶ Never short-circuit the battery.
- ▶ Never expose the battery to high heat.
- ▶ Do not transport the battery together with metal objects, e.g. necklaces or hair pins.
- ▶ The risk of the battery leaking is greatest when the battery is discharged. To avoid damage to the hand-held transmitter you should remove the battery when it is discharged or if the hand-held transmitter will not be used for a prolonged period.
- ▶ If liquid from a damaged battery comes in contact with clothing, the eyes or the skin, immediately flush the affected area with ample water.
- ▶ Dispose of the battery in accordance with locally applicable disposal regulations. Insulate the contacts with insulating tape.
- ▶ Keep new and used batteries out of the reach of children. Swallowing the battery can seriously damage your health. If a battery is swallowed immediately seek medical assistance.

14.1 Hand-held transmitter disposal

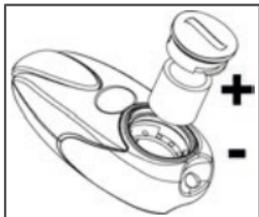
Batteries and electronic devices are subject to the current versions of the European Directive 2006/66/EC or 2002/96/EC and must not be disposed of as household waste.



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 return to retail trade. Return is free of charge.

Dispose of packaging in corresponding recycling container in accordance with national regulations.

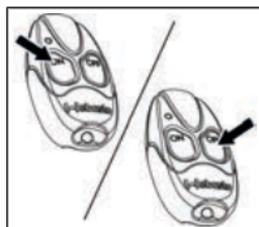
14.2 Changing the hand-held transmitter battery



- ▶ Ensure the correct polarity when inserting the battery into the hand-held transmitter.

14.3 Hand-held transmitter battery status

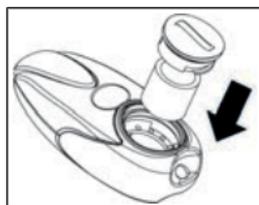
- ▶ Press the ON push button (or OFF push button).



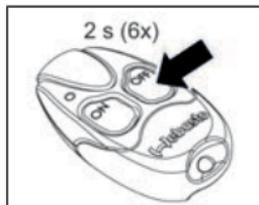
LED display	Battery status
Lights green or red for 2 seconds	Battery is OK (The heater may be activated or deactivated here)
Flashes green or red for 2 seconds	Battery is OK The receiver is too far away or the transmitter has not been taught. See "Switching on the heater on page 6".
Lights orange for 2 seconds	Almost spent . Very cold. – Battery is almost spent; replace it as soon as possible – Transmitter heats up.
Flashes orange very quickly for 5 seconds	Battery spent; replace battery.
No display	Battery spent; replace battery.

14.4 Restarting the hand-held transmitter

To extend the life of the battery, we recommend removing the battery from the hand-held transmitter if it is not to be used for a longer period of time.



- ▶ Insert battery in the battery compartment of the hand-held transmitter.



- ▶ Press the OFF push button six times for 2 seconds at approx. 2 second intervals.
- ▶ Wait for approx. 2 minutes.

**NOTE**

If after restarting the hand-held transmitter, it does not function, check the battery function (see "Hand-held transmitter battery status on page 10").

15 Maintenance and handling

Battery and hand-held transmitter:

- Avoid damage.
- Do not let it heat up over 70°C (e.g. direct sunlight).
- Operating temperature between 0°C to +50°C.
- Only store the unit in a dry and dust-free environment.
- Protect against moisture
- Store at room temperature.

16 Declaration of Conformity

The Telestart T91 was developed, manufactured, tested and supplied in accordance with the relevant directives, regulations and standards for safety, EMC and environmental compatibility.

Webasto declares that the product Telestart T91 is manufactured and delivered in accordance with the directives and regulations.

The complete CE Declaration of Conformity can be found in the download area at <https://dealers.webasto.com>.

These are the original instructions. The German language is binding.
You can request your language if it is missing. The telephone number of each country can be found in the Webasto service centre leaflet or the website of the respective Webasto representative of your country.

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