

**BlueHeat® T91 Remote
Owner's Manual**

BLUEHEAT

Warm up your vehicle without idling.



Webasto
Feel the drive

Operating and servicing manual

BlueHeat® T91

General Information

Dear Webasto Customer !

We are delighted that you have selected this Webasto product.

We assume that the workshop / service center that carried out the installation explained to you the operation and principle of functioning of your Telestart T91 to your complete satisfaction.

With these operating instructions we would like to provide you with an overview of the use of the hand-held transmitter Telestart T91.

BlueHeat® T91 Technical Data

Transmitter

Size L/W/H.....	approx. 54 x 32 x 16 mm
Weight	40 g
Output power	max 8 dBm
Transmit frequency	915 MHz range
Battery	1 x 3.3V (Type CR1-3N)
Display.....	two-color LED

Receiver

Power consumption	< 1mA (on average)
Size L/W/H.....	approx. 85 x 65 x 15 mm
Receiving sensitivity	-105 dBm
Antenna connection.....	50 ohms; plug-in (with latch)
Connectors	6-pole MQS female connector (AMP)
Interface to heating system	cable for ON/OFF
	cable for heating/ventilation

System

Standard functions	ON, OFF, heating, ventilation
No. of transmitters	up to 3 transmitters can be programmed
Range	500 m (up to 700 m in open country)



The heater must not be operated:

- 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).
- Close to inflammable materials such as: Dry grass and leaves, cardboard packaging, paper, etc.
- In enclosed rooms (e.g. garages), not even via the timer or Telestart.

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

Using the Webasto Telestart T91, you can switch Webasto heaters (Thermo Top E, Thermo Top C, Thermo Top P, Thermo Top V) or the vehicle fan on and off at a long distance via a wireless link.

To switch on the vehicle fan (ventilation of the interior of the vehicle), the mode has to be changed on the transmitter.

After being switched on, the auxiliary heating system switches itself off automatically or is switched off by the automatic heating function once the selected operating time has expired.

Optimum signal transmission is achieved out in the open or from a position higher than the vehicle. In this case, the auxiliary heating system can be operated at a distance of approx. 500 m from the vehicle. Reception quality is impaired accordingly in heavily built-up areas.

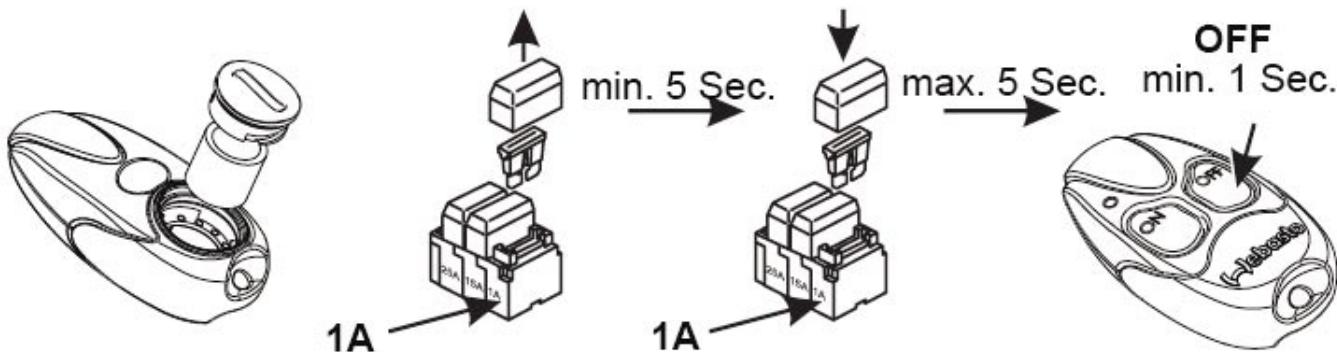
Programming Telestart Transmitter

1. Place batteries into the battery compartment of the transmitter.
2. Remove fuse 1A (black) from the heater's fuse holder (voltage interruption).
3. Wait at least 5 seconds.
4. Replace fuse in heater's fuse holder and within 5 seconds press the OFF button on the transmitter for at least 1 second.
5. "Learning" is completed.

A second or third hand-held transmitter can be programmed in the same manner.

NOTE:

The learning process can be repeated as often as necessary. The "oldest" transmitter will be deleted each time.



Checking the Mode

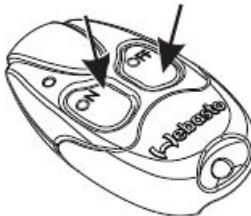
Simultaneously depress and hold down the ON and OFF buttons.

LED illuminates:

- red = heating mode
- green = ventilating mode

LED extinguishes:

- when the buttons are released, or
- after 10 seconds



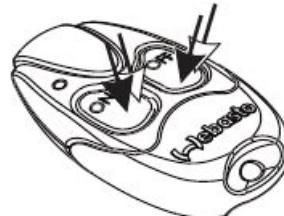
Mode setting

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.

The new mode is stored when the button is released.

2 x



Feedback from the 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.

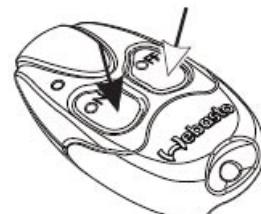
Switch on heater or ventilation

Hold the transmitter with the aerial upright and press the ON button until the LED lights up (approx. 1 second).

The LED on the hand-held transmitter indicates whether the signal has been received. After the signal has been received, the heating or ventilation operation is indicated by means of brief blinking signals (every 2 seconds).

The operation indicator extinguishes:

- After the preset operating time has elapsed.
- When Telestart is switched off.



NOTE:

In the 'heating' mode, the vehicle's heating system is to be set to "warm" prior to leaving the vehicle.

In the 'heating' and 'ventilation' modes, the vehicle's 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 blowers. In the case of infinitely variable fans adjust to at least 1/3 of the fan's capacity.



Switch 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 transmitter will send a feedback signal.

Switching off using the pushbutton switch

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

Switching on/off using the pushbutton switch

The parking heater 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 operating duration most recently used with Telestart T91 will be selected.

Switching on using a digital timer

When the heater is operating, a symbol appears on the display and the display remains illuminated.

NOTE:

When the digital timer is used for activating the heater, the operating mode (parking heating or parking ventilation) most recently used with Telestart T91 will be selected. The operating duration, however, is governed by the digital timer.

Switching off using a digital timer

If the heater was activated using Telestart, the 'instant heat' must be pressed twice to deactivate the heater.

Checking and Setting the 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:

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 the Operating Time

Simultaneously actuate the ON and OFF buttons within one second three times in rapid succession.

NOTE:

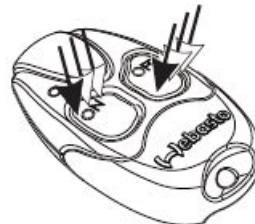
The first coded flashing signal that is emitted immediately upon the third actuation of both buttons has to be included into the count.

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.

3 x

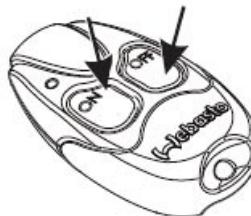
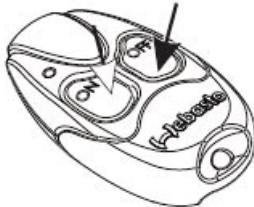


Setting the Operating Time

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 the Default Setting

Press the ON and OFF buttons simultaneously for approx. 10 seconds until the LED extinguishes.

Default setting: heating mode, 30 minutes.

Checking the Batteries

Press the ON or OFF button.

LED	Batteries	Action
Flashes orange for 5 seconds	Almost spent	Replace batteries as soon as possible or warm up transmitter
Lights up for 5 seconds in orange	Discharged	replace batteries

FCC Notes (USA)	IC Notes (CANADA)
<p>Device FP / PP [statement according to 15.19(a)(3)] <i>"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."</i></p>	<p>User Manual or Device FP / PP; Certification requirement[RSS-210 §7.1.5]: <i>"Operation of this device 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."</i></p>
<p>User Manual FP / PP [statement according to 15.21] <i>"Modifications not expressly approved by this company could void the user's authority to operate the equipment."</i></p>	
<p>User Manual FP / PP [statement according to 15.105] <i>"NOTE: 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</i></p> <ul style="list-style-type: none"> <li data-bbox="99 715 809 740"><i>. Reorient or relocate the receiving antenna.</i> <li data-bbox="99 764 809 788"><i>. Increase the separation between the equipment and receiver.</i> <li data-bbox="99 813 809 856"><i>. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</i> <li data-bbox="99 880 809 904"><i>. Consult the dealer or an experienced radio/TV technician for help."</i> 	

RFExposure portable:

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.”

RFExposure mobil:

The internal / external antennas used for this mobile transmitter must provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.”

NOTES:

- 1.) The T91 NA contains toxic substances and has to be decontaminated (dumped) in a corresponding way. (LI-batteries, containing lead)
- 2.) The T91 system contains small parts which may not be swallowed! (battery, battery-lid etc.)
- 3.) The device does not belong in child hands.

BLUEHEAT

Warm up your vehicle without idling.

BlueHeat® T91 Remote Owner's Manual Part Number xxxxxxx
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