

# Bosch Remote Control for GWH-635-ES



6 720 606 990 JS

**BOSCH**



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### Safety Instructions

- ▶ Read the following instructions very carefully to ensure perfect operation.
- ▶ Follow safety instructions.



**Caution:** the remote control is waterproof and can also be used in the shower . Nevertheless, you should ensure it is not immersed in water, for instance in the bathtub .

### 1 Declaration of Conformity FCC

This device meets the requirements of FCC Directives and is compliant with the type-tested sample in the relative FCC test certificate.



**Caution:** The remote control can be used only in the following countries: United States of America and Canada.

## 2 Remote Control Data

Remote control for temperature adjustment of Bosch water heaters GWH-635-ES.

Technical Data:

<b>Battery power supply</b>	Alkaline LR 6 2 x 1,5V
<b>Frequency</b>	915 MHz
<b>Type of protection</b>	IP X6

Further Indications:

<b>Remote control</b>	Up to 6 remote controls can be programmed for one single appliance..
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## 3 Parts supplied

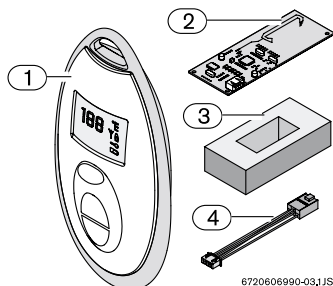


Fig. 1 Parts

- 1 Remote control
- 2 Remote control transceiver PCB

- 3 Support
- 4 PCB's connection cable

## 4 Using the Remote Control

### 4.1 Description of the LCD

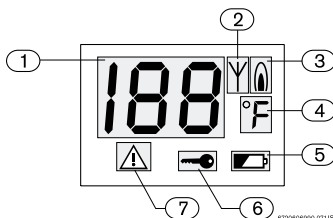


Fig. 2 Multifunctional LCD

- 1 Displays temperature, error codes and functions
- 2 "Remote control in operation" indication (signal arriving at remote control)
- 3 Device in operation (with burner on)
- 4 Temperature measurement unit (possible in °C and °F)
- 5 Remote control battery level indication (weak signal coming from the remote control)
- 6 Priority function (temperature cannot be modified by other user interface when water is running)
- 7 "Security lock" symbol

### 4.2 Remote control transceiver PCB installation



**Warning:** For safety reasons, disconnect the power supply to the heater.

#### Pre-installation preparation

- ▶ Remove the plug from the supply socket.
- ▶ Remove plastic decals on front panel.
- ▶ Undo two Philips head screws located behind decals.
- ▶ Lift front cover panel upward and remove.
- ▶ Remove the lower cover from the control box.
- ▶ Remove the 2 sets of cables from the control box PCB.
- ▶ Undo connections from both ignition cables.
- ▶ Remove holding bracket.
- ▶ Remove control box.

Control box is now out of the appliance casing.

#### Remote control transceiver PCB installation

- ▶ Open control box top cover (Fig. 3, pos. 1).
- ▶ Remove the protective cover (Fig. 3, pos. 2) from one face of the support and fix it to the main PCB as shown in Fig. 3.

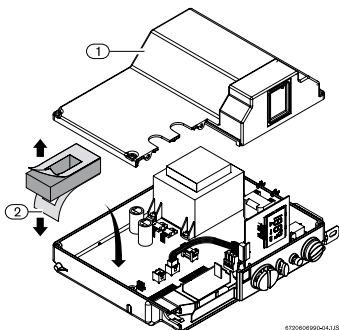


Fig. 3

- ▶ Remove the other protective cover and fix the remote control PCB as shown in Fig. 4.

Assure that the face of the remote control PCB is against the control box.

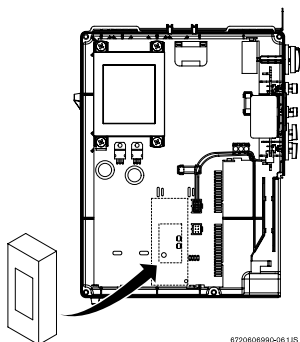


Fig. 4 Support correct position

- Using the supplied cable make the connection between the main PCB and the remote control PCB as shown in Fig. 5.

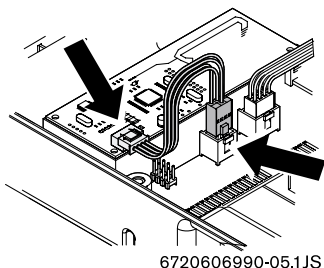


Fig. 5


- Close the control box cover.
- Re-assemble:

- the control box in the appliance
- all connections between the PCB and the appliance
- lower cover in the control box
- holding bracket
- front cover panel.

### 4.3 Remote Control Activation



Before the remote control will work it will have to be activated, using the procedure described below, and standing in front of the appliance.





- Move the main switch on the appliance to the 0 position.
- Press and hold  key while at the same time turn the main switch to "ON" position (I).

LCD shows one number and one rotating digit.

The number represents the remote control which is to be registered, the first remote control will be registered with number "0", the second with number "1" and so on.



## Using the Remote Control

The rotating digit shows that the electronics is expecting a registration.

- ▶ Hold remote control in front of the control panel on the heater and press simultaneously remote control buttons  and  until the temperature indication is shown on the remote control LCD.
- ▶ Switch ON/OFF switch to "OFF" position (0) and then back on (I).
- ▶ Press buttons  and  in order to reach requested temperature.

New remote control is programmed.

### 4.4 Hot Water Temperature Adjustment by Remote Control

- ▶ Press the buttons  or  on the remote control (Fig. 6, pos. 2) until the required temperature appears on the remote control display (Fig. 6, pos. 1).
- ▶ When the required temperature is defined, turn on the hot water tap.
- ▶ The required temperature will flash on the remote control display.
- ▶ The flashing will stop when the required temperature is reached

(tolerance from selected set point -5 + 3 °K).

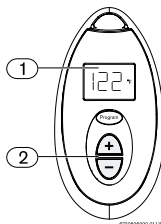




Fig. 6 Temperature adjustment

### 4.5 "Program" Button on the Remote Control

**Memorizing the water temperature with the remote control "Program" button**

- ▶ Press the buttons  or  on the remote control (Fig. 7, pos. 2), until the required temperature appears on the remote control display (Fig. 7, pos. 1).
- ▶ You will now be able to memorize this temperature by keeping the "Program" button on the remote

control (Fig. 7, pos. 3) pressed for 3 seconds.

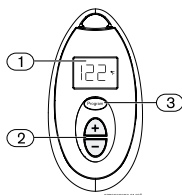


Fig. 7 *Memorising water temperature*

- Only one temperature can be memorized using the "Program" button on the remote control.
- At this point the remote control will display the memorized temperature. When the hot water tap is turned on, the water heater will supply hot water at the temperature memorized on the remote control.

If the temperature was memorized using remote control buttons (it is possible to combine up to six remote controls), it can only be modified whilst hot water is flowing if the same remote control is used again (see chapter 4.6 "Priority Function").

### Using the "Program" button (operation with memorized temperature)

To operate the equipment with a previously memorized temperature:

- Press the "Program" button on the remote control.

The remote control display or control panel will now show the previously memorized temperature. When the hot water tap is turned on, the water heater will supply hot water after a few seconds, at the memorized temperature.



Apart from the temperature that can be memorized using the "Program" button on the control panel, a second temperature can be memorized on each remote control using the "Program" button, to meet the needs of each user.

### 4.6 "Priority" function

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Temperature cannot be memorized or selected using the control panel buttons or even a second remote control when hot water is in use (e.g. during a shower) since the "Priority" function will automatically start up to stop another user modifying the temperature when hot water is in use.

The equipment does not have a default temperature setting and therefore has no default "Priority" function. The "priority" will be attributed automatically by the first user who selects or memorises (on the remote control or on the control panel) a temperature for subsequent use (e.g. a shower).

Then, when the hot water is used (e.g. for a shower), the control panel display and remote control/s display will show the symbol " ➡ ".

The temperature may only be modified using the same buttons that memorized it (depending on whether



the control panel or the remote control was used).

The "Priority" function ends:

- 5 minutes after the last use of the hot water (return to basic set up).
- 2 minutes after selecting/memorizing the temperature if no hot water is used immediately afterwards.

#### Acquiring "priority"

Any user can acquire "priority" for subsequent use of hot water, as follows:

- ▶ Move main switch to position I.
- ▶ Keep button  or button  pressed.
- ▶ Select the required temperature.
- ▶ Press the "Program" button for 3 seconds to memorize the temperature, if required.
- ▶ Use the hot water within two minutes of acquiring "priority."



"Priority" cannot be acquired whilst the hot water tap is open.

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### 4.7 Error Messages

This device has an error message system. Any anomalies will be



indicated by an error code that will appear on the display (Fig. 2, pos. 1) and by a symbol indicating a "safety block" (Fig. 2, pos. 7). The device will be operative once again following the elimination of the fault and after pressing the reset button.

To identify the type of anomaly, consult chapter 5 of the installation manual.

## **5 Maintenance**

### **5.1 Replacing batteries**

When batteries are flat, the symbol (Fig. 2, pos. 5) will appear on the display.

- ▶ Remove the two screws on the back of the remote control.
- ▶ Open the battery housing and remove the flat batteries, then replace with new batteries, ensuring they are inserted correctly.



Certify that the rubber seal is correctly fitted between both plastic housing parts.

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- ▶ Close the battery housing using the two screws.



**Warning:** flat batteries must be replaced.

Consequently, the manufacturer is not liable for any faults or damage caused by flat batteries.


Do not create litter with flat batteries: ensure they are disposed of in the specific refuse containers.

### **5.2 Cleaning**

Use a damp cloth to clean parts of the remote control. No abrasive or solvent-based detergents are needed.







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