

Control unit replacement

for Vitodens 100-W, type WB1C

Safety instructions



Please follow these safety instructions closely to prevent accidents and material losses.

Safety instructions explained



Please note

This symbol warns against the risk of material losses and environmental pollution.

Note

Details identified by the word "Note" contain additional information.

Installation, initial start-up, inspection, maintenance and repairs must only be carried out by a competent person (heating engineer/installation contractor).

Before working on the equipment/heating system, isolate the power supply (e.g. by removing a separate mains fuse or by means of a mains isolator) and safeguard against unauthorised reconnection.

When using gas as fuel, also close the main gas shut-off valve and safeguard against unauthorised reopening.

Repairing components which fulfil a safety function can compromise the safe operation of your heating system. For replacements, use only original spare parts supplied or approved by Viessmann.

Opening the Vitodens



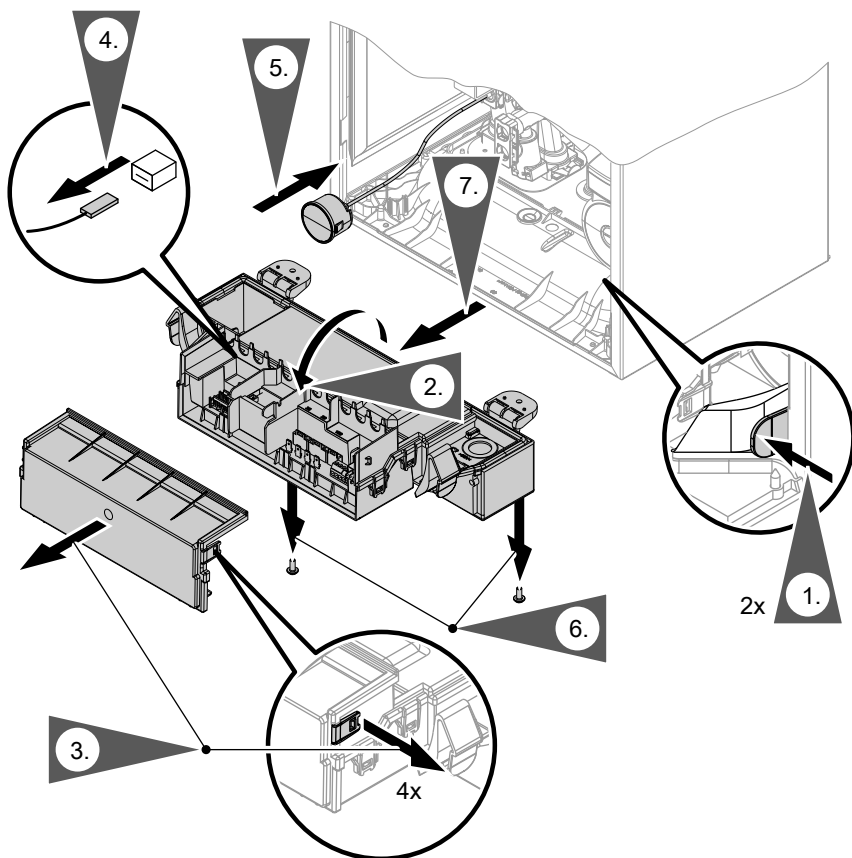
Installation and service instructions

Replacing the control unit



Please note

Electronic assemblies can be damaged by electrostatic discharges. Before beginning work, touch earthed objects, such as heating or water pipes, to discharge static loads.



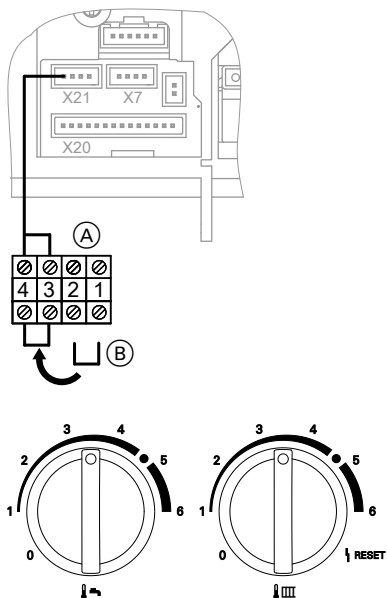
1. Push in the side locking tabs.
2. Pivot control unit forward.
3. Remove the cover.
4. Pull all plugs from the control unit.
5. Push in the side locking tabs and remove the pressure gauge from the control unit casing.
6. Undo two screws on the hinges and remove the control unit.

Replacing the control unit (cont.)

7. Remove the control unit from the floor of the air box.
8. Secure the new control unit with two screws onto the floor of the air box.
9. Fit the pressure gauge into the control unit casing.
10. Connect all plugs to the control unit.

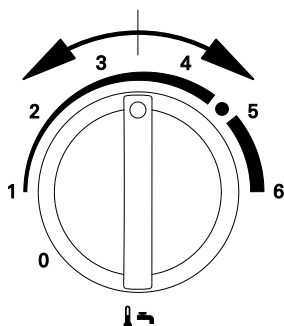
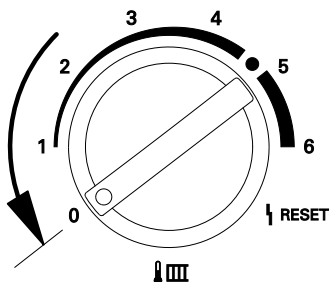
Matching the control unit to the boiler

Match the new control unit to the boiler by selecting a parameter set.



1. At the terminal block (A) remove jumper (B) from terminals 1 and 2, and insert into terminals 3 and 4.
2. Switch ON/OFF switch ON.
3. Simultaneously turn rotary selectors "🔥" and "🔥" to their central positions. "SERV" appears on the display.

Matching the control unit to the boiler (cont.)

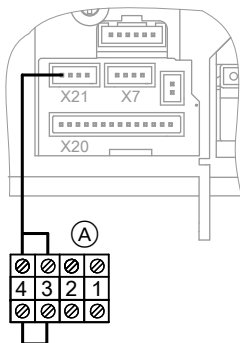


4. Turn rotary selector "III" fully anti-clockwise within 2 s.
The value for the selected parameter set (1 - 12) flashes in the display.
5. Select the parameter set that suits the boiler in accordance with the following table and the serial number (see type plate).
6. Select the correct parameter set by turning rotary selector "I".

Serial no. (Type plate)	Parameter set No.
7441 736	4
7441 737	5
7441 739	6
7441 745	2
7441 748	1
7441 749	3

7. The set operating mode is saved when the value stops flashing, and the control unit returns to standard mode.
8. Enabling parameters:
Switch the control unit ON/OFF switch first OFF and then ON again.

Matching the control unit to the boiler (cont.)

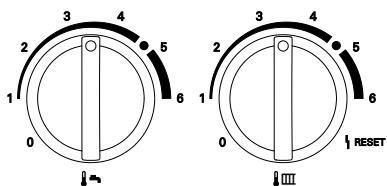


9. Remove new lead (A) from "X 21" again (is no longer required).
10. If a lead was previously connected to "X 21" at the control unit (remote control unit or outside temperature sensor): Reconnect this lead to "X 21".

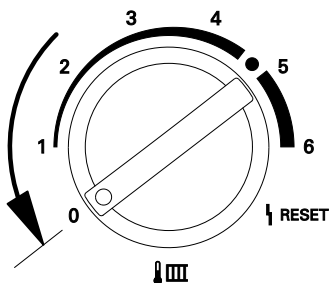
Converting gas type at the control unit

Note

The gas type must only be converted when operating with LPG. In the delivered condition, the control unit is set up for operation with natural gas.

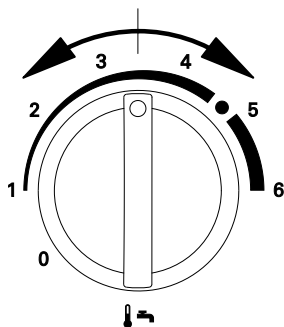


1. Switch ON/OFF switch ON.
2. Simultaneously turn rotary selectors "🔥" and "🔥 III" to their central positions.
"SERV" appears on the display.



3. Turn rotary selector "🔥 III" fully anti-clockwise within 2 s.
"🔥" and the set value flash in the display.

Converting gas type at the control unit (cont.)



4. Adjust the control unit to natural gas or LPG by turning the rotary selector "flame".

The display shows:

- "0" for operation with natural gas or
- "1" for operation with LPG

5. The set operating mode is saved when the value stops flashing, and the control unit returns to standard mode.

Matching the burner output to the flue system



Installation and service instructions

Closing the control unit and starting the boiler

1. Close the control unit casing and pivot the control unit up.
2. Fit the front panel.
3. Start the boiler and check for correct function.

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