

Replacing the control unit

for Vitodens 100-W

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.

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

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).

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.

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.

Opening the Vitodens



Installation and service instructions

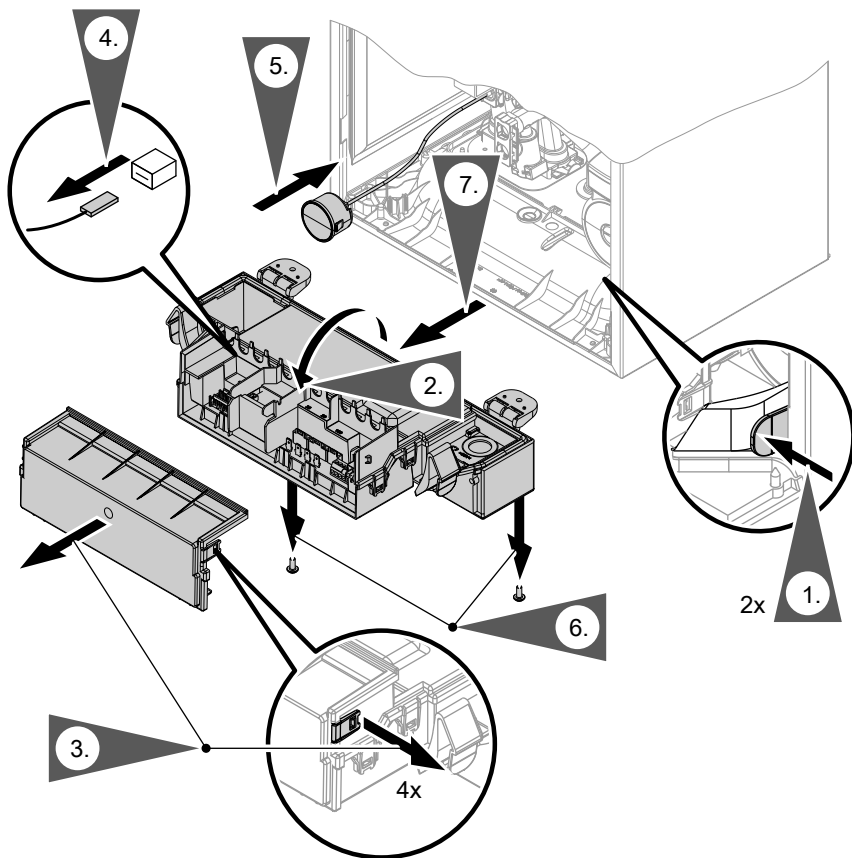
Replacing the control unit



Please note

Electronic assemblies can be damaged by electrostatic discharge.

Prior to commencing any 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.

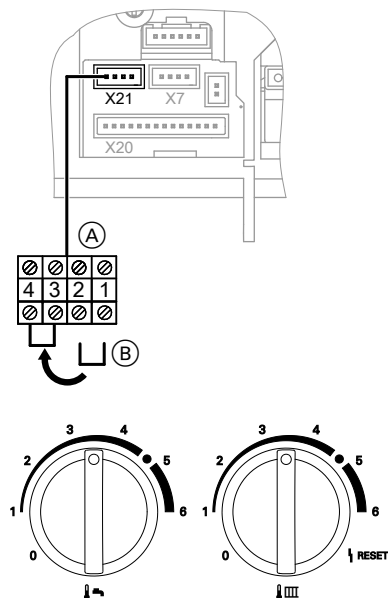
5. Push in the side locking tabs and remove the pressure gauge from the control unit casing.
6. Undo the 2 screws on the hinges and remove the control unit.

Replacing the control unit (cont.)

7. Remove the control unit from the floor of the air box.
8. Secure the new control unit with 2 screws on 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

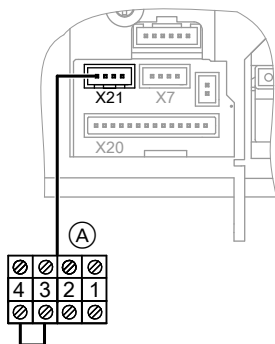
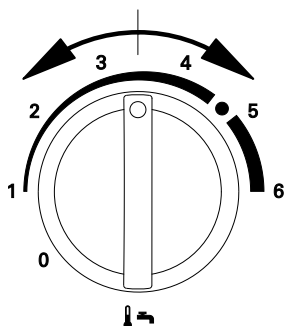
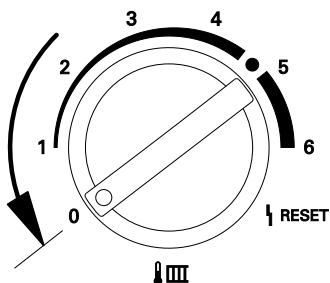
The new control unit must be set to the boiler. Select and set the relevant parameter set.



1. Push supplied lead (A) onto "X 21".
2. Remove jumper (B) from across terminals 1 and 2, and insert across terminals 3 and 4.
3. Switch ON the ON/OFF switch.
4. Turn both rotary selectors "🔥" and "🔥 III" simultaneously to their centre position. The display shows "SERV".



Matching the control unit to the boiler (cont.)



5. Turn rotary selector "III" fully anticlockwise within 2 s.
In the display the value for the selected parameter set (1 to 12) flashes.
6. Select the parameter set that suits the boiler in accordance with the following table and the serial number (see type plate).
7. Use rotary selector "IV" to select the relevant parameter set.
8. The selected operating mode has been accepted when the value stops flashing. The control unit enters standard mode.
9. Enable parameter setting:
Turn the control unit ON/OFF switch first OFF and then ON again.
10. Remove lead (A) from "X 21" (is no longer required).

Matching the control unit to the boiler (cont.)

11. 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".

Serial no. (type plate)	Parameter set no.
7172799	8
7202597	7
7202598	8
7202599	14

Serial no. (type plate)	Parameter set no.
7441736	4
7441737	5
7441739	6
7441745	2
7441748	1
7441749	3

Serial no. (type plate)	Parameter set no.
7499418	7
7499419	8
7499420	14
7499421	12
7499422	13
7499423	7
7499424	8
7499425	9
7499426	10
7499427	11
7499428	12
7499429	13
7499430	14
7499431	13
7499432	7
7499433	8
7499434	14

Serial no. (type plate)	Parameter set no.
7499435	12
7499436	13
7499438	15
7499440	16
7499441	7
7499442	8
7499443	14
7499446	12
7499447	13

Serial no. (type plate)	Parameter set no.
7501297	1
7501298	2
7501823	2
7501824	2
7514869	14
7514870	7

Serial no. (type plate)	Parameter set no.
7536907	7
7536908	8
7536909	14

Serial no. (type plate)	Parameter set no.
7543415	7
7543416	8
7543417	14
7543418	12
7543419	13
7543420	7

Matching the control unit to the boiler (cont.)

Serial no. (type plate)	Parameter set no.
7543421	8
7543422	9
7543423	10
7543424	11
7543425	12
7543426	13
7543427	14
7543428	13
7543429	7
7543430	8

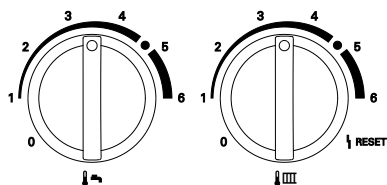
Serial no. (type plate)	Parameter set no.
7543431	14
7543432	12
7543433	13
7543434	15
7543435	16

Serial no. (type plate)	Parameter set no.
7570972	14
7570973	14

Changing the gas type at the control unit

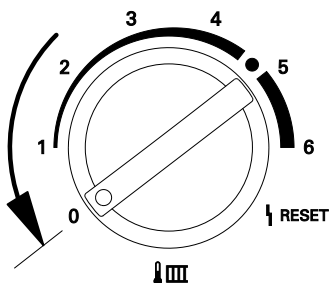
Note

The gas type only needs to be converted for operation with LPG. In the delivered condition, the control unit is set to operate with natural gas.

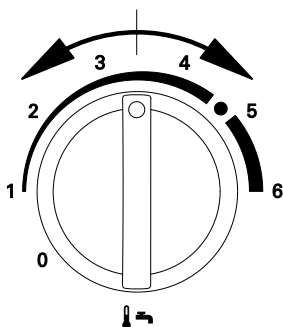


1. Switch ON the ON/OFF switch.
2. Turn both rotary selectors "flame icon" and "flame icon with three vertical bars" simultaneously to their centre position.
The display shows "SERV".

Changing the gas type at the control unit (cont.)



3. Turn rotary selector "🔥||| " fully anti-clockwise within 2 s.
"🔥" and the selected value will flash.



4. Use rotary selector "🔥🔧" to convert the control unit to natural gas or LPG.
The display shows:
 - "0" for operation with natural gas
or
 - "1" for operation with LPG
5. The selected gas type has been accepted when the value stops flashing. The control unit enters 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 enclosure and pivot the control unit.
2. Fit the front panel.
3. Start the boiler and check for correct function.



Installation and service instructions

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