

MI_2301: Control PCB UltraVent XS & UltraVent Plus XS – Removal and Installation

 UltraVent XS & Ultra-Vent Plus XS

 20 min

 Standard

 31/03/2023

Topic

The information describes the removal and installation of the control PCB UltraVent XS.

Affected product/accessories

UltraVent XS and UltraVent Plus XS for:

- iCombi Pro
- CombiMaster Plus

Required tool

- Standard

Required components

Description	Article number
Control PCB UltraVent	42.00.412P

General information

NOTICE

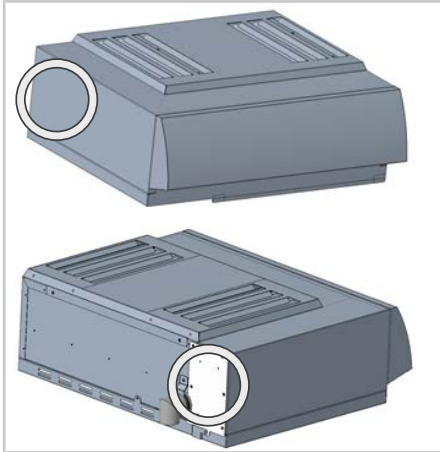
Enter the installation of the component on the service level ("Component replacement" tab). This is an integral part of the maintenance history.

Target group

- This document is intended for skilled technicians, who have been certified by the manufacturer after attending training and safety instructions.
- Installation, inspection, maintenance, and repair work must only be carried out by trained technicians.
- It is recommended that only technicians authorised by the manufacturer perform inspection, maintenance and repair work.
- The unit may not be used, cleaned, or maintained by children. The unit may not be used for play. This is prohibited even under supervision.

- The unit may not be used, cleaned, or maintained by people with limited physical, sensory, or mental capacity or those without the necessary experience or knowledge, unless such people are supervised by a person who is responsible for their safety and who has been informed of the hazards of the unit.
- In order to prevent accidents or damage, the manufacturer recommends that technicians attend training and safety instructions.

Installation position



Safety instructions

DANGER

High voltages when connecting to the mains power

Danger to life due to high voltage.

- Disconnect from the power supply.
- Make sure the unit is disconnected from the power.

CAUTION

High risk of personal injury and material damage

The modification process is very demanding. There is a high risk of personal injury and material damage.

- Wear safety clothing and equipment.

CAUTION

Sharp edges on the housing

Risk of cuts on the housing when working in the electrical compartment.
Wear protective gloves.

⚠ CAUTION**Sharp edges on the housing**

Risk of cuts on the housing when working in the unit.
Wear protective gloves.

⚠ CAUTION**Risk of crushing due to the weight of the condensation hood**

Hands and feet could be crushed by the weight of the condensation hood.

- Wear safety shoes.
- Make sure that hands are not crushed underneath the condensation hood.

NOTICE**Observe regional and country-specific safety and testing regulations**

The relevant regional, country-specific safety and testing regulations apply to all work on RATIONAL units. These regulations may vary by region and are country-specific and are therefore not listed separately in this document. The technician is responsible for complying with these regulations.

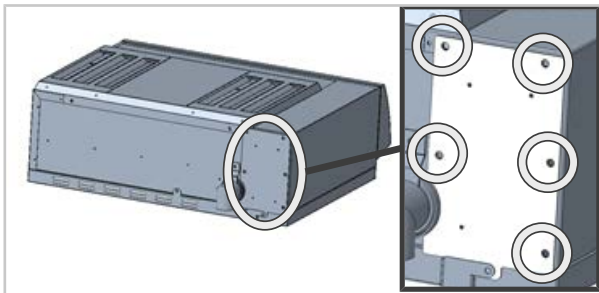
NOTICE**LED blink code on the control PCB**

The LED on the control PCB indicates the following statuses with different blink codes:

- LED flashes: communication is present.
- LED lights up continuously: communication is faulty.
- LED is off: no power supply via BUS interface.

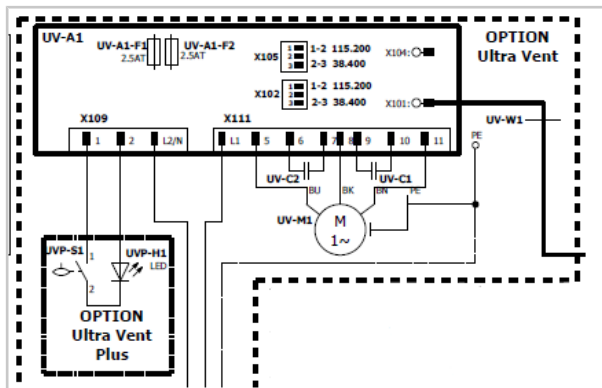
Work steps – Removal and installation of the control PCB UltraVent XS

- ✓ The unit is switched off and voltage-free.
 - ✓ The UltraVent XS / UltraVent Plus XS is deenergised.
1. Remove all five screws from the electrical box cover.



- > Remove the electrical box cover.

2. Disconnect all connectors from the PCB.
3. Loosen the wires from the clamp connection.
4. Remove the PCB from the electrical box cover.
5. Insert and connect the new control PCB.

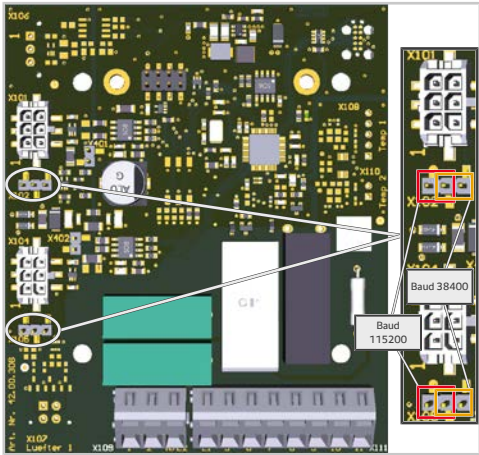


- > The new PCB must be set to the date of manufacture of the unit and the UltraVent/UltraVent Plus on the DIP switch and the jumper.
6. For units (UltraVent / UltraVent Plus) with a production date from 02/2023 onwards, set the DIP switch as shown in the image:



7. Set the jumpers of the BUS speeds (X102; X105) on the PCB as follows:

Hood → ↓ unit	UltraVent XS to 01/2023	UltraVent XS from 02/ 2023
6-2/3 to 2020	---	Baud 38400 (Item 1)
6-2/3 to 19/03/2023	---	Baud 38400 (Item 1)
6-2/3 from 20/03/2023	BUS translator	Baud 115200 (Item 2)

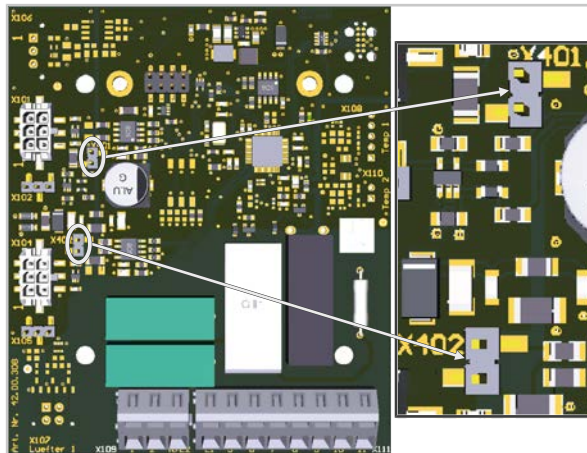


Only necessary for UltraVent XS (from 02/2023) and iCombi Pro XS (to 19/03/2023):

Remove the jumpers X401 and X402.

Only necessary for UltraVent XS (from 02/2023) and iCombi Pro XS (from 20/03/2023):

Check jumper on X401 and X402.



1. Carry out a function test to check the settings.
>> The installation and removal of the control PCB UltraVent XS is complete.

