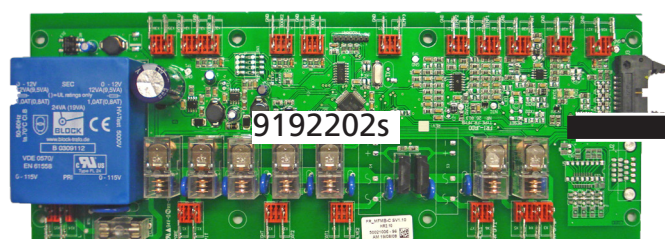


## Conversion to new generation Power&I/O board in the Multiserie

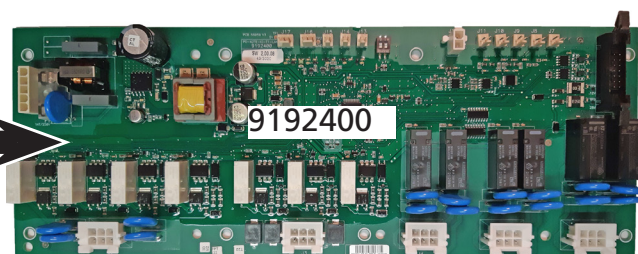


The below 9192202s board is no longer deliverable. This because some components became obsolete

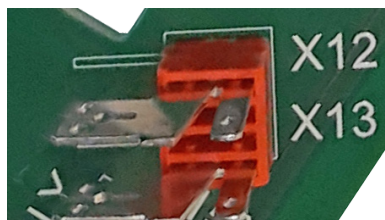
The below 9192400 board will replace it



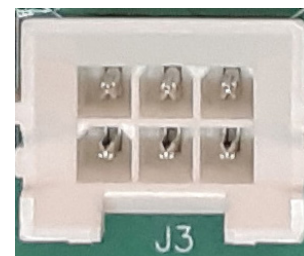
Old boards have spade terminals



New boards have multi pole sockets

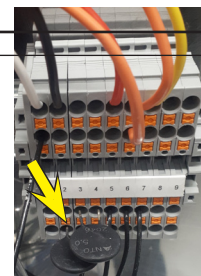


"X" numbers to "J" numbers



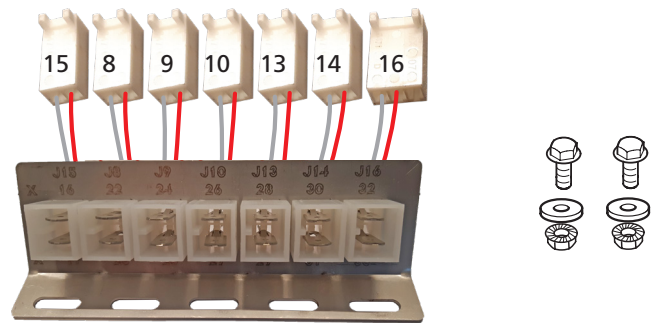
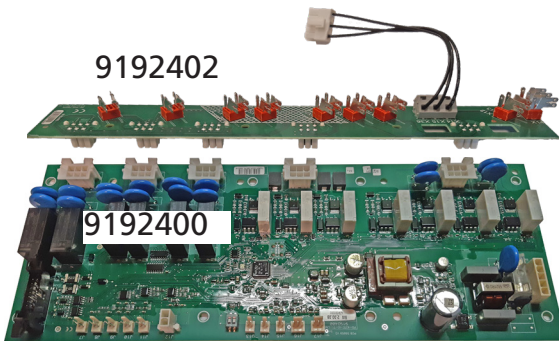
### Take notice of the following remarks!

- **USA (208V units) Only:** On the terminal block near the big transformer, 2 NTC resistors should be present.
- Units older than serial number 100067648 (May 2014) may not have these.
- In these cases, the unit has to be upgraded with the "service set MTS transformer" update kit 9190193s. **Otherwise, the board will be blown !!!**
- CPU boards that do not have a USB socket, must have sw version 4.3 or higher. Otherwise, the vent valve error will pop up. It is however still possible to work with the unit, but the error message remains on screen. These boards are applied until serial number 100060393, October 2012. Sw version 4.30 is released in January 2013
- The vent valve will be disconnected. Check if it is in open position. Remove the flap if necessary.



The kit comes with:

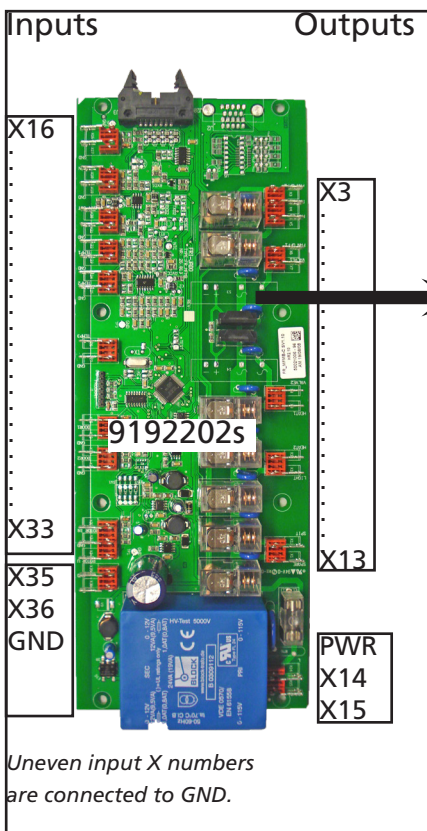
- ➔ An interface board 9192402 to convert the output wiring.
- ➔ A bracket with wiring to convert the input wiring.
- ➔ Mounting material.



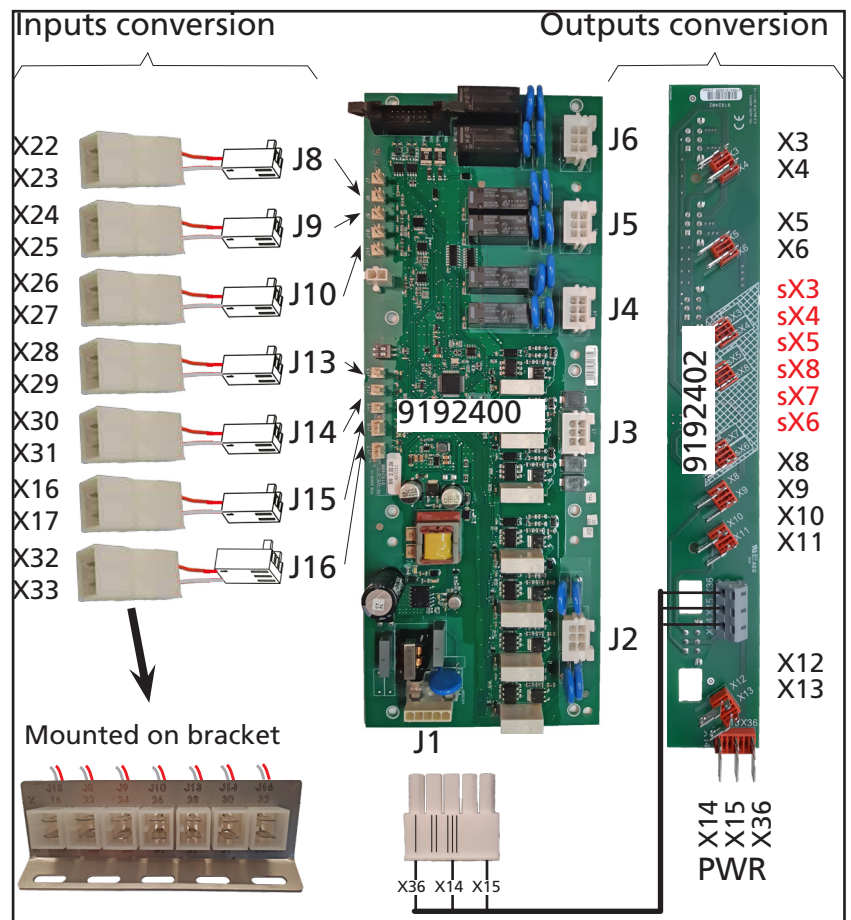
## The principle

Inputs are signals like switches and sensors.  
Outputs are power consumers like contactors, motors, lamps.

Old board connections.

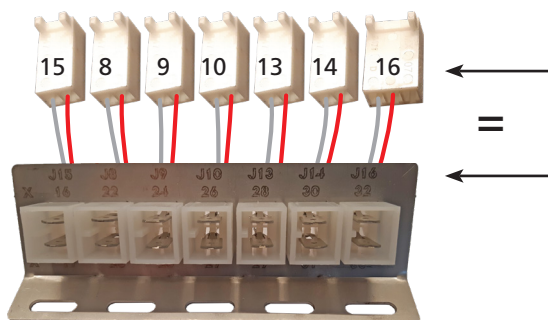
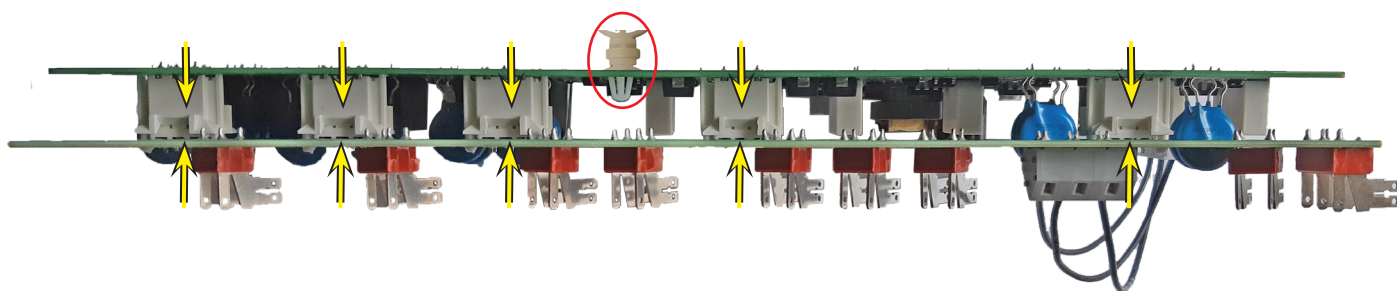


New board with conversion



## Preparation

Note that the assembly of boards has one spacer mounted, with the top, cut off.  
Check if the connectors are completely pushed into each other.

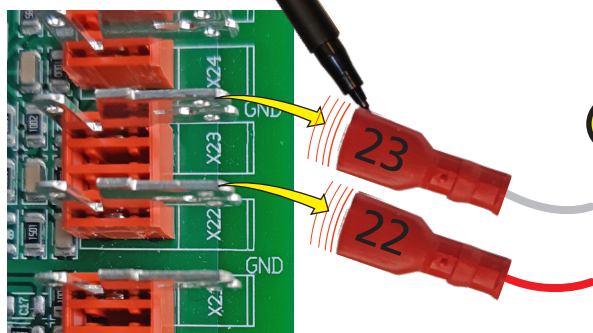


Check if the "J" numbers on the plugs, correspond with the laser burned ones.

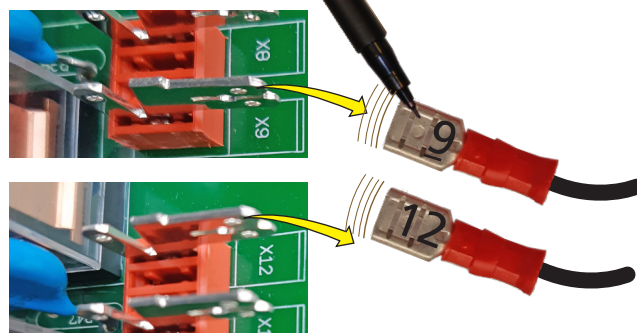
## Do not forget !!!

**Write the corresponding X numbers on the faston connectors, when disconnecting !!!!!**

Example X22 and X23 from the PT1000 sensor



Example X9 (Heater contactor)  
X12 (Rotor motor)



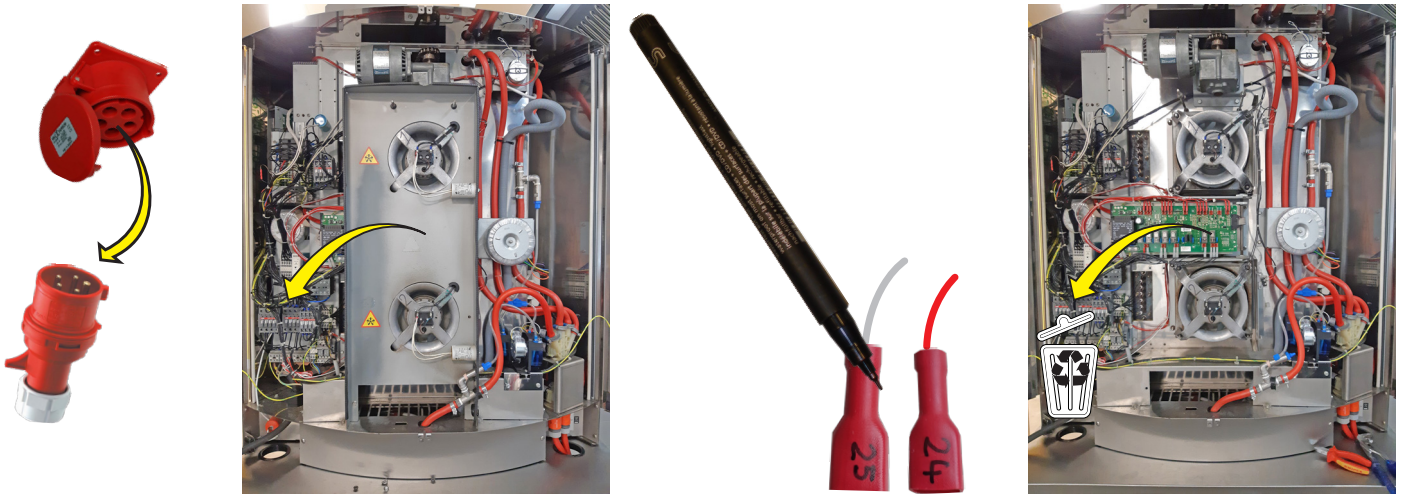


Disconnect the mains power.

Open the service doors and remove the air funnel.

Disconnect all wires and number them with the "X" numbers.

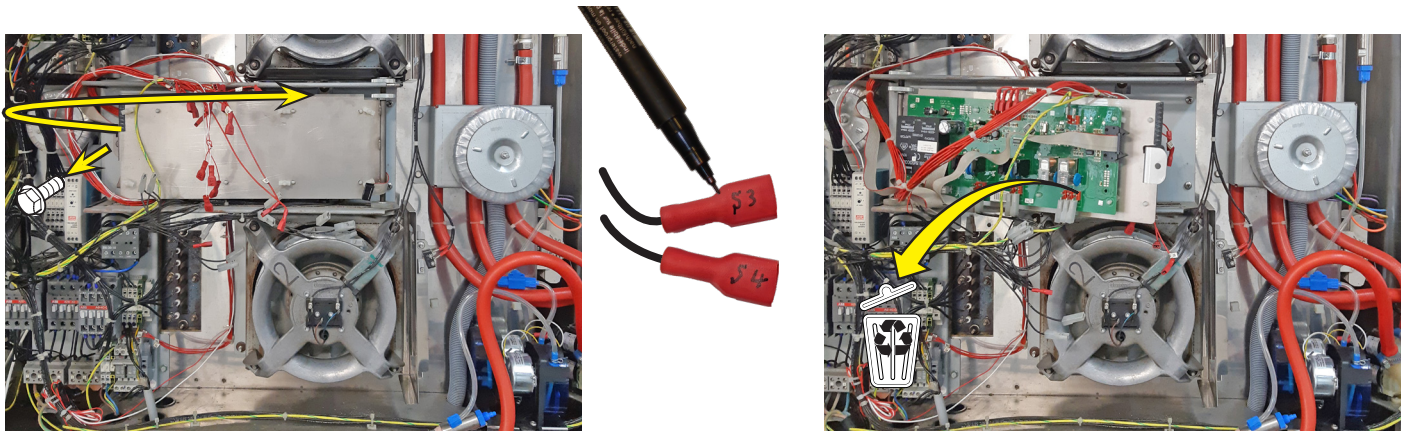
Remove the power&I/O board



Unscrew the screw and slide / turn out the mounting bracket.

Disconnect all wires, put corresponding **"sX"** numbers on the faston terminals.

Remove the slave board.



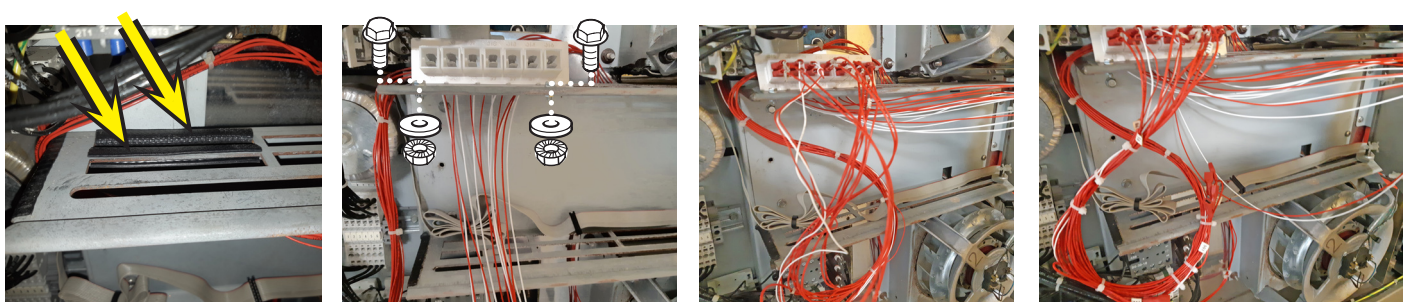
Put protective U profile on the bracket, 2x 8 cm.

Mount the assembled bracket.

Connect all input "X" wiring to the corresponding numbers.

Tie up the unused wires and make a neat wiring loom.

*Not used numbers (if present) are sX16, sX17, sX18 and sX19.*

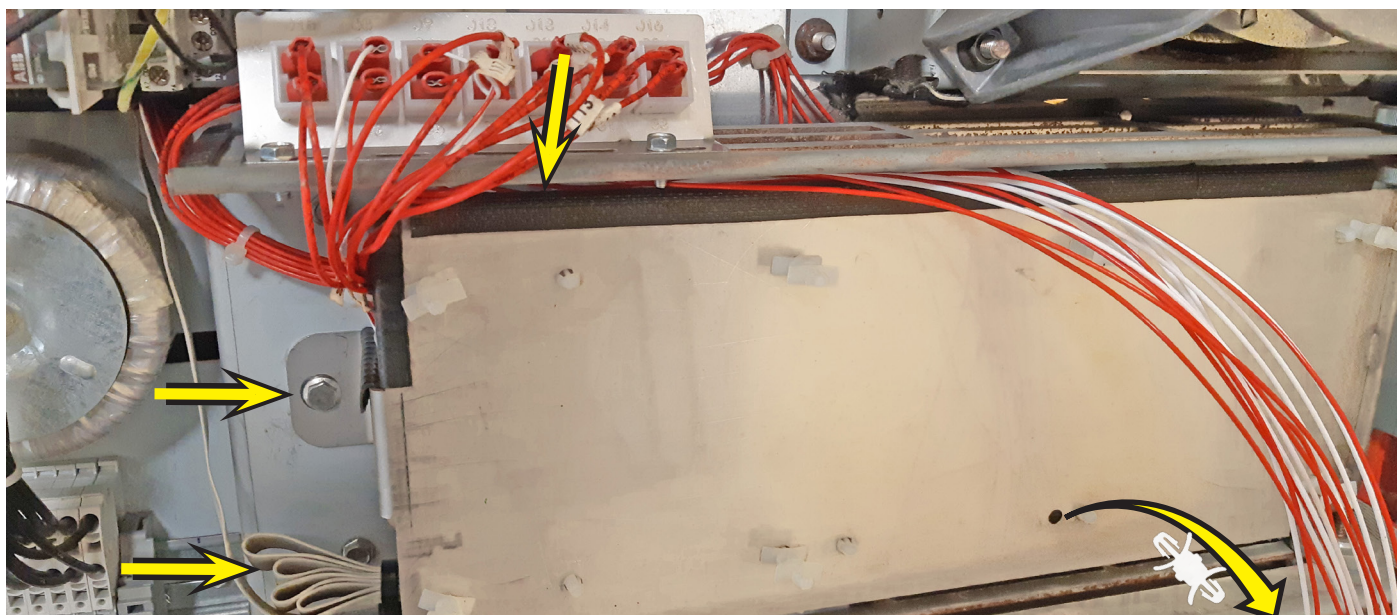




Put 30 cm protective U profile on the bracket

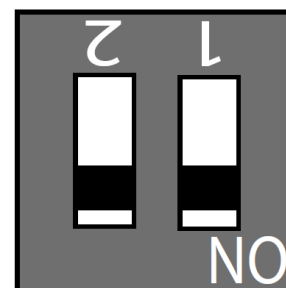
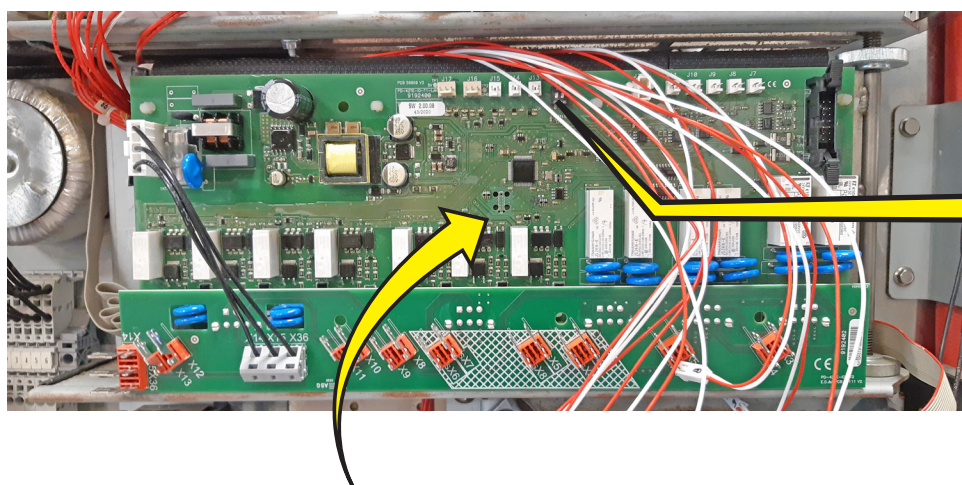
Put the ribbon cable in place, behind the mounting bracket and close it.

Remove one plastic spacer as indicated.



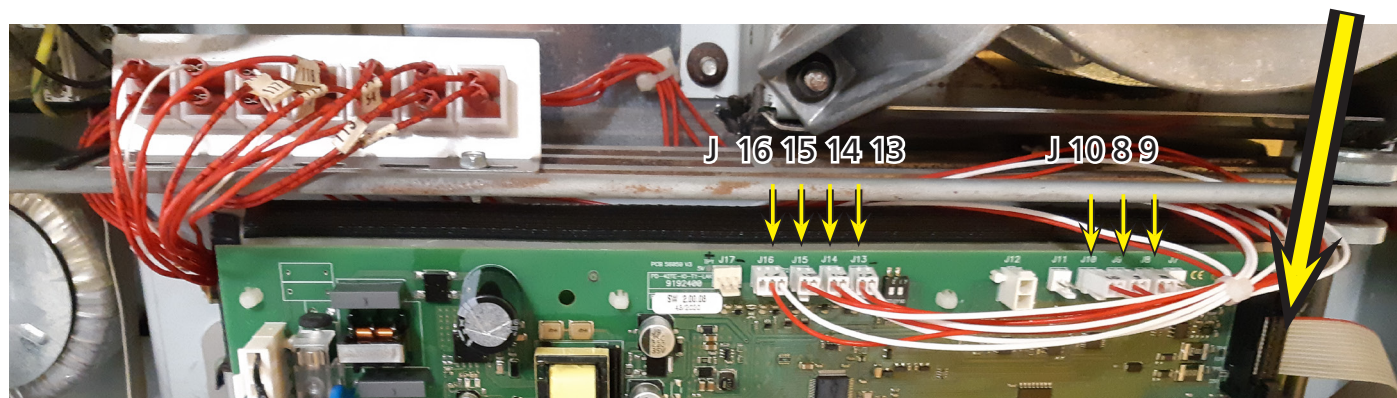
Push the assembly of boards, on the 7 plastic spacers.

Set the dip switches in the ON position



Connect the "J" connectors.

Connect the ribbon cable





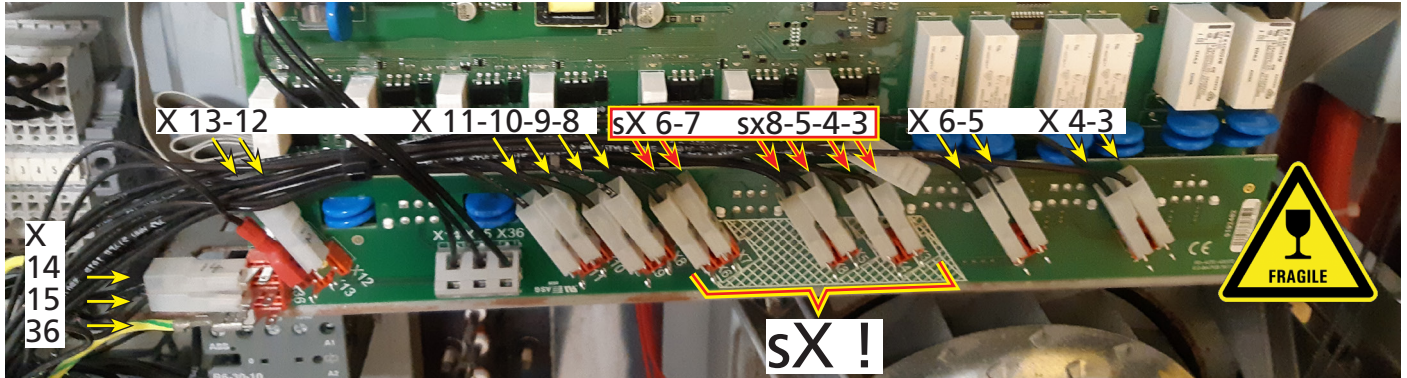
Connect the (black) wiring to the corresponding X numbers on the interface board.

Cut off a number of cable ties to make this possible.

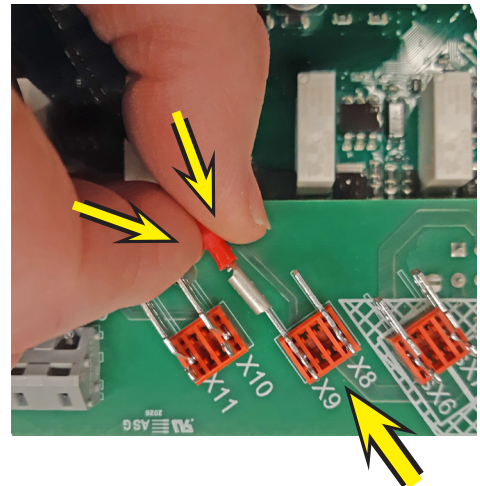
Put "sX" wires from the previous Slave board on the shaded area with sX numbers.

*Bundl these wires close to the interface board.*

*They must not fan out above the power board.*



**Put contra force on  
the terminals while  
connecting !!**



Not used x numbers are

X7 fan slow start (USA only) **If no NTC's are mounted, kit 9190193s is needed !!!!**

sX9 Vent valve

sX10 power. **Insulate !**

sX11 power. **Insulate !**

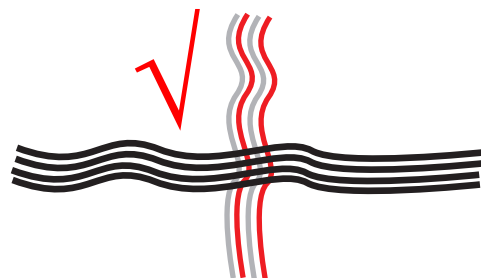
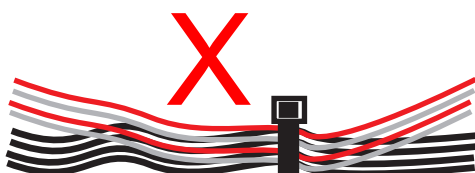
sX20 Ground wire. **Insultate !**



Tie up loose wiring again, make a neat wire harness.

Do not tie wires from inputs and outputs in parallel together.

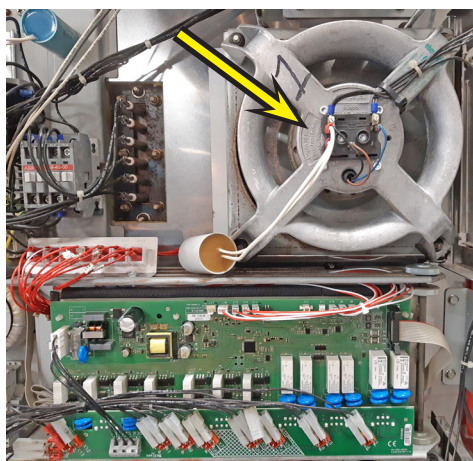
Crossing wires from inputs with wires from outputs are allowed.



Connect the capacitors of the blowers.

Plug in the USB drive in case of software update.

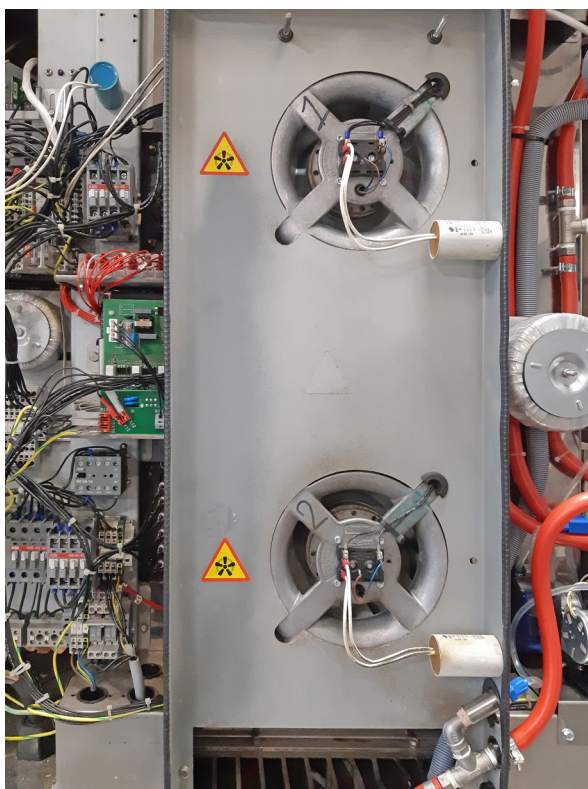
Connect the mains power



Check all inputs and outputs by means of the I/O test facility in the service parameters.

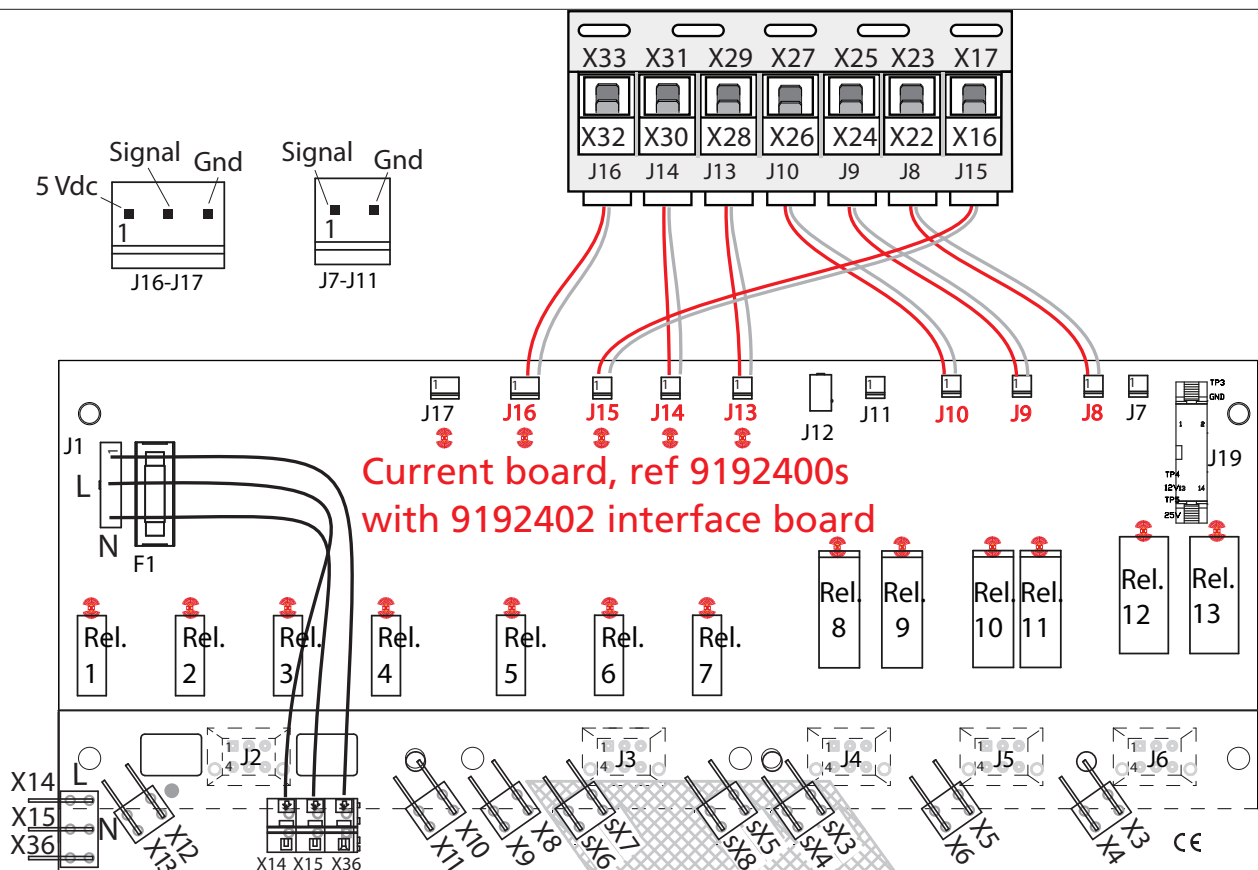
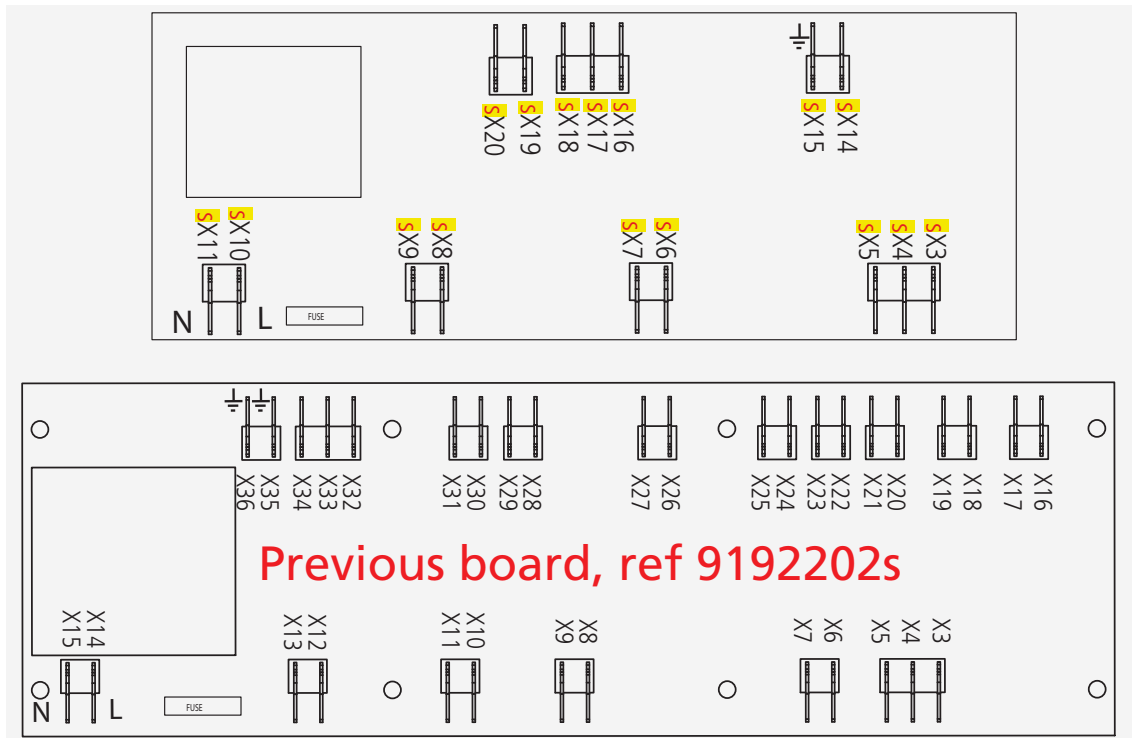
Note that it still shows the mfMB and mfS1 inputs and outputs, like there are still two boards.

If everything ok, then remount the fan funnel and close the service doors.



## Overview of board terminals

Leave this sheet in the oven, next to the electric diagrams for future trouble shooting.





# Electrical diagram of the new board assembly.

