REPAIR / UPGRADE MANUAL

Wireless receiver replacement

Removed	Wireless receiver "ESH InfraPanel 433" (433 MHz) with wireless thermostat ITH433-P
Installed	Wireless receiver RFSFH-61 (868 MHz) with wireless thermostat RFTC-50
Applies to	Compatible ECO, FRAME WIST and ELEGANT WIST panels (see Section 3)
Intended for	Qualified electricians

1 SAFETY

⚠ WARNING The procedures in this document may only be carried out by a qualified electrician. Switch off the panel and disconnect it from the mains supply before carrying out any of the work in this manual.

- Check that the panel is listed as compatible in Section 3 before starting.

2 SCOPE

This document describes the replacement of the wireless receiver in WIST series heating panels. The original "ESH InfraPanel 433" receiver (433 MHz) is removed and replaced with an RFSFH-61 receiver (868 MHz).

3 COMPATIBILITY

Heating units that may be upgraded with the RFSFH-61:

ECO series **Item no. 650xxx**	**FRAME WIST and ELEGANT WIST series** **Item nos. 652xxx, 654xxx**	**BASIC series (all types: FB, BE, SBE)** **Item nos. 651xxx, 653xxx, 655xxx**
60x30, 500 W: **YES**	60x30, 500 W: **YES**	60x30, 230 W: **NO**
60x60, 1000 W: **YES**	60x60, 500 W: **YES**	60x60, 500 W: **NO**
60x90, 1500 W: **NO**	60x90, 800 W: **YES**	60x90, 800 W: **NO**
60x120, 2000 W: **NO**	60x120, 1000 W: **YES**	60x120, 1000 W: **NO**
	60x150, 1300 W: **YES**	60x150, 1300 W: **NO**

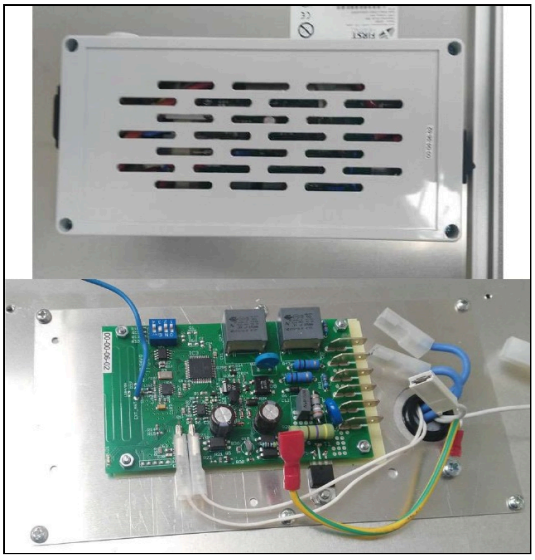
NOTE The original 433 MHz devices (ESH InfraPanel 433, ITH433-P) and the 868 MHz devices (RFSFH-61, RFTC-50) are not compatible with each other.

4 TOOLS REQUIRED

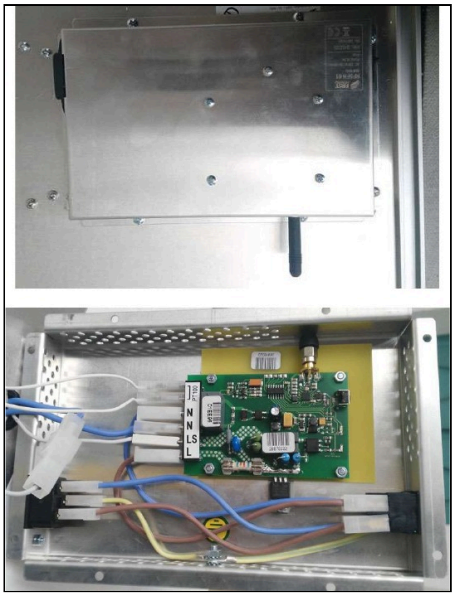
- Phillips screwdriver
- Drill driver with Phillips bit (for the self-tapping screws, step 13)

5 PARTS

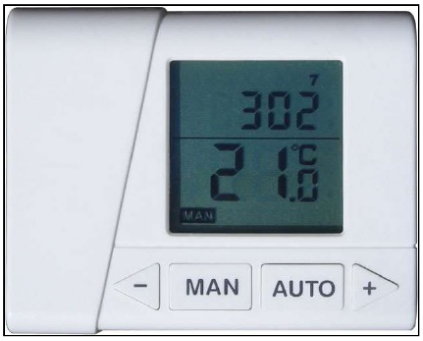
Removed: wireless receiver, 433 MHz ("ESH InfraPanel 433")



Installed: wireless receiver, 868 MHz (RFSFH-61)



Removed: wireless thermostat, 433 MHz ("ITH433-P")



Installed: wireless thermostat, 868 MHz (RFTC-50)

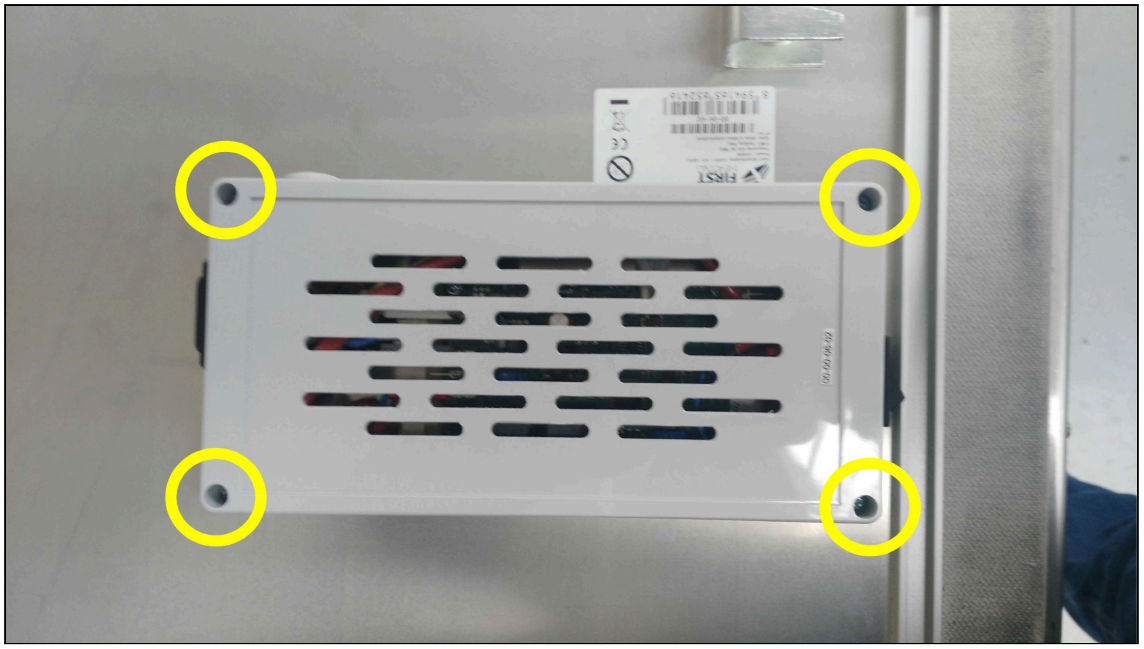


6 PROCEDURE

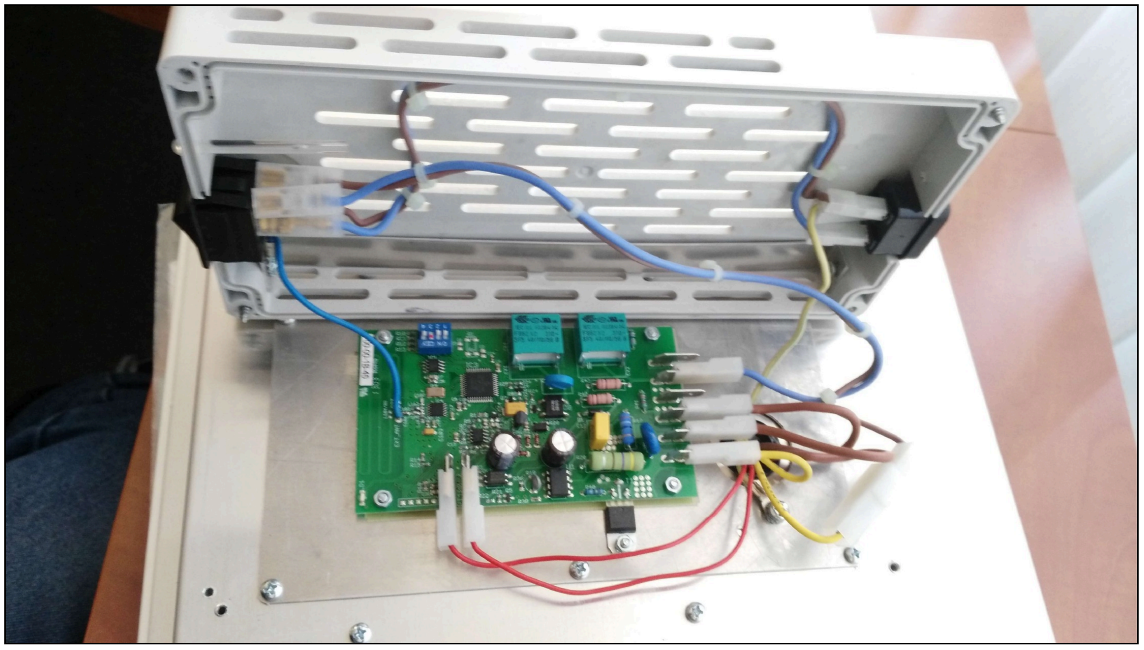
6.1 Remove the existing receiver

> **⚠ WARNING** Switch off the panel and disconnect it from the mains supply before carrying out any of the work in this manual. Work to be carried out by a qualified electrician only.

1 Remove the four screws that secure the receiver housing.



2 Lift the housing upright.



3 Disconnect the six cables (Faston connectors) from the PCB.

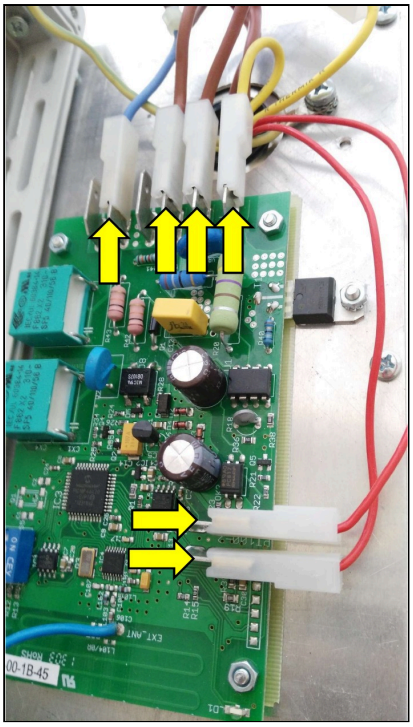


Fig. 3a Connectors to remove (arrows)

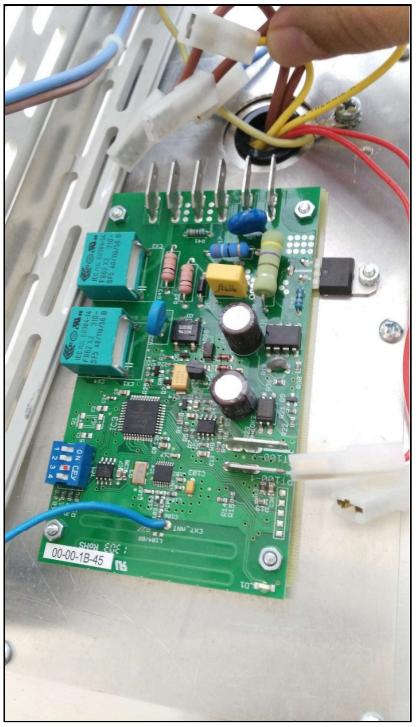


Fig. 3b Connectors removed

4 Disconnect the live (L) conductor from the thermal protector.

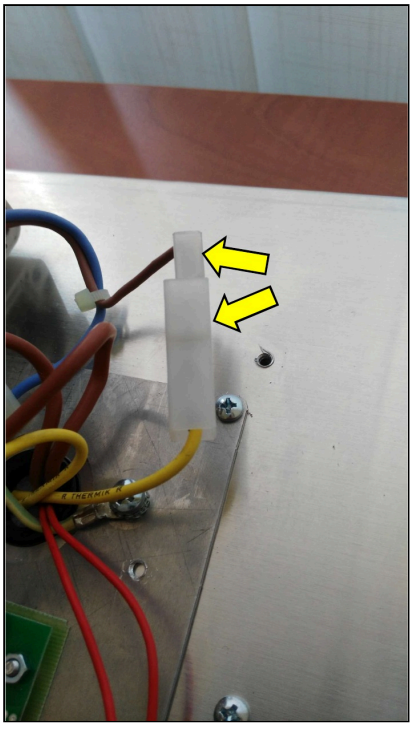


Fig. 4a Connection to separate

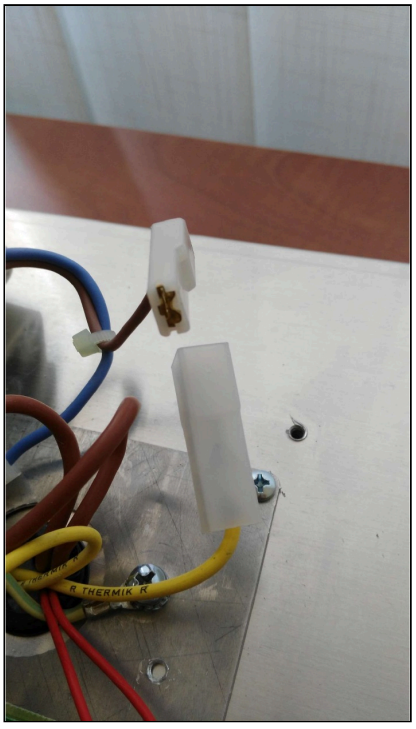


Fig. 4b Separated

5 Disconnect the protective earth (PE) conductor from the socket.

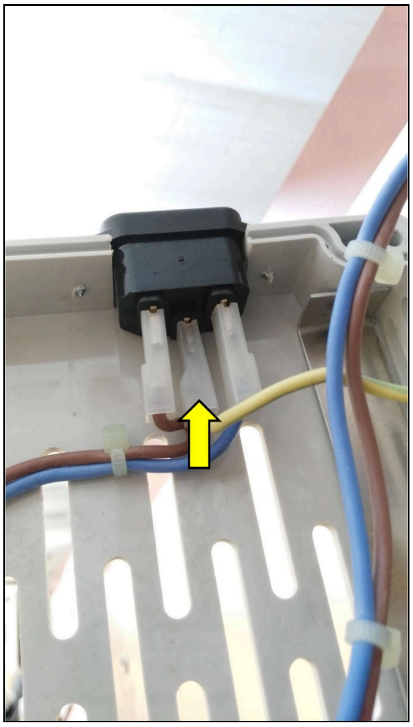


Fig. 5a Earth conductor (arrow)

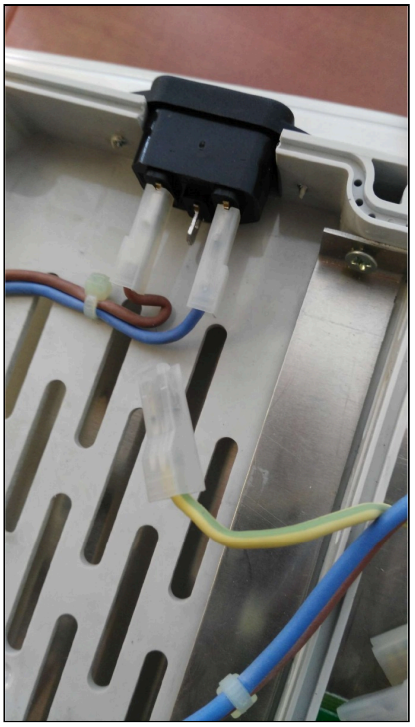


Fig. 5b Disconnected

6 Disconnect the antenna.

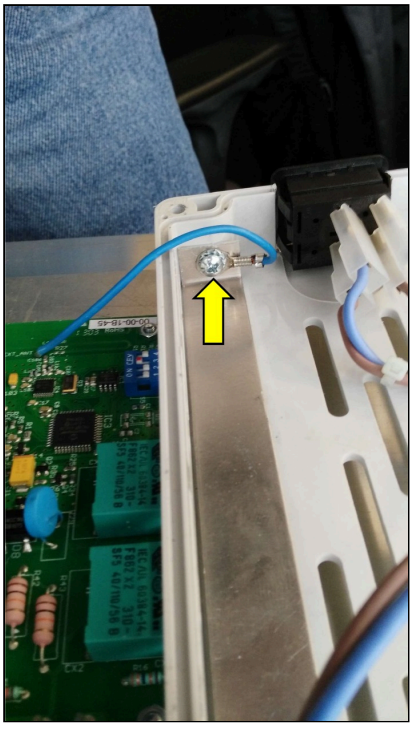
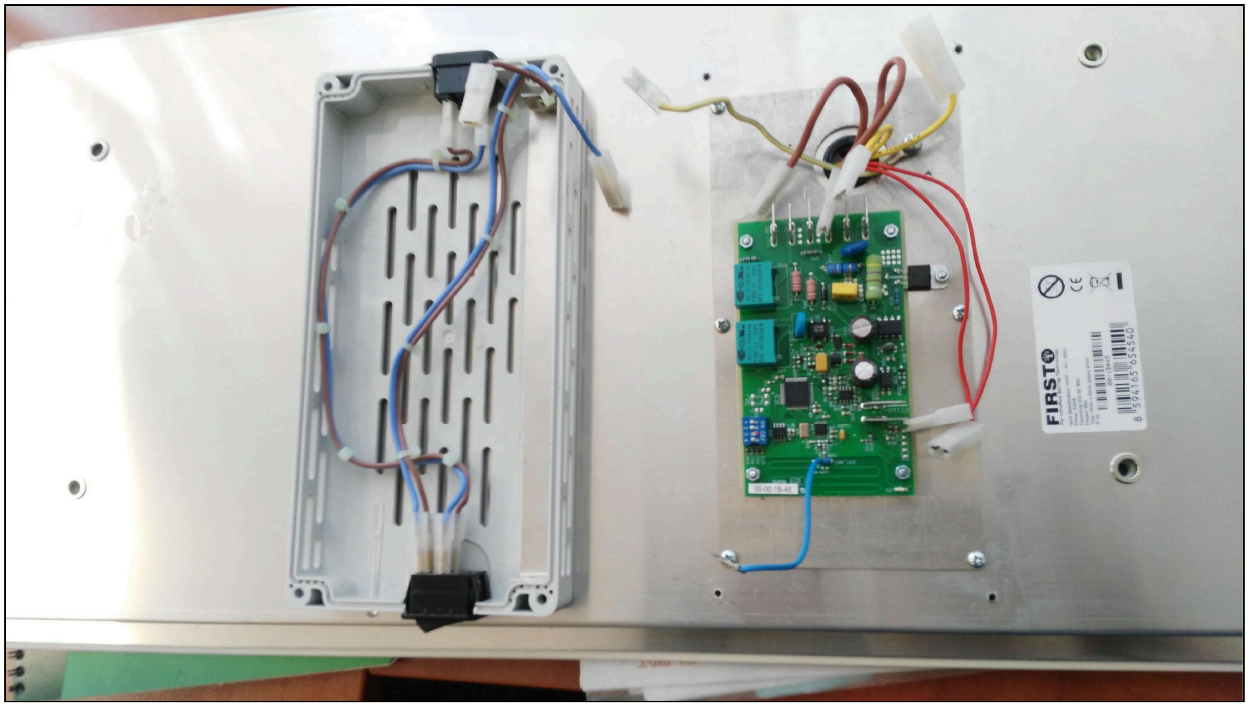


Fig. 6a Antenna connection (arrow)

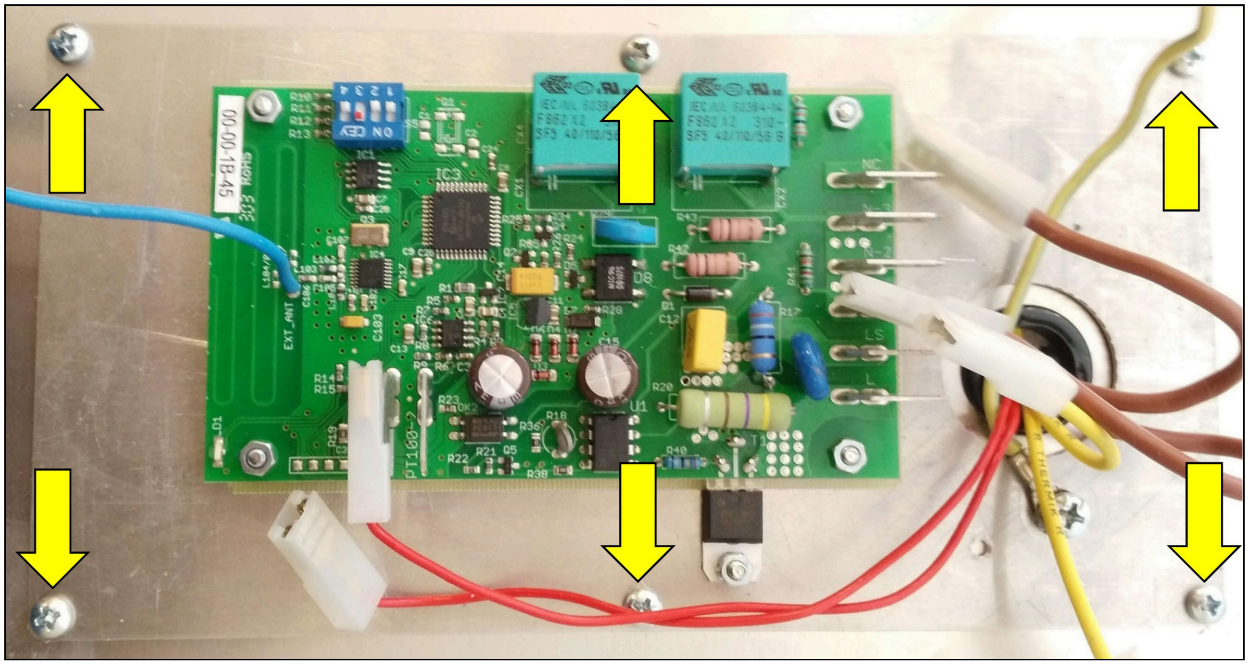


Fig. 6b Disconnected

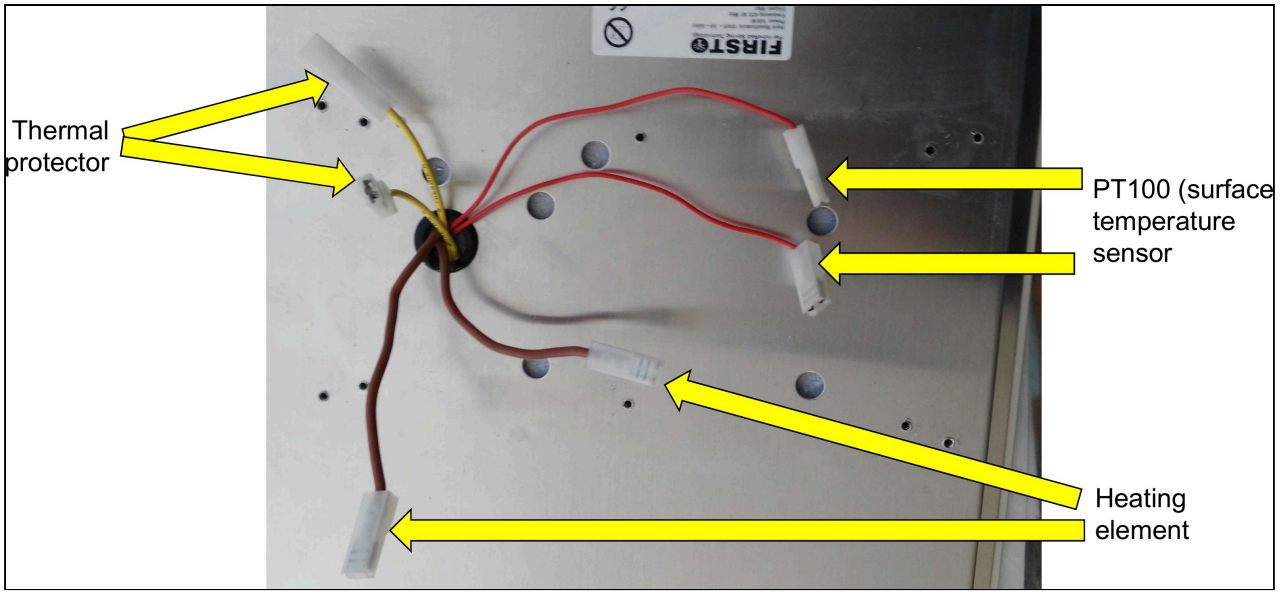
7 Remove the plastic cover.



8 Remove the six screws that secure the PCB plate to the panel.

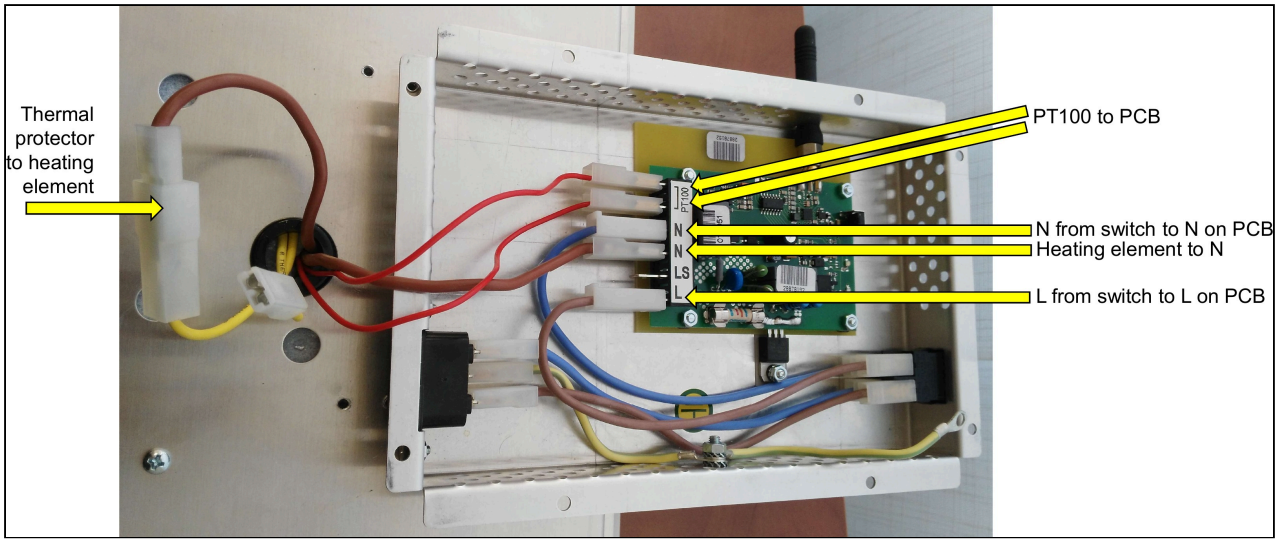


9 Remove the PCB plate and note the function of each cable.



6.2 Install the RFSFH-61 receiver

10 Make the new connections to the RFSFH-61 as illustrated.



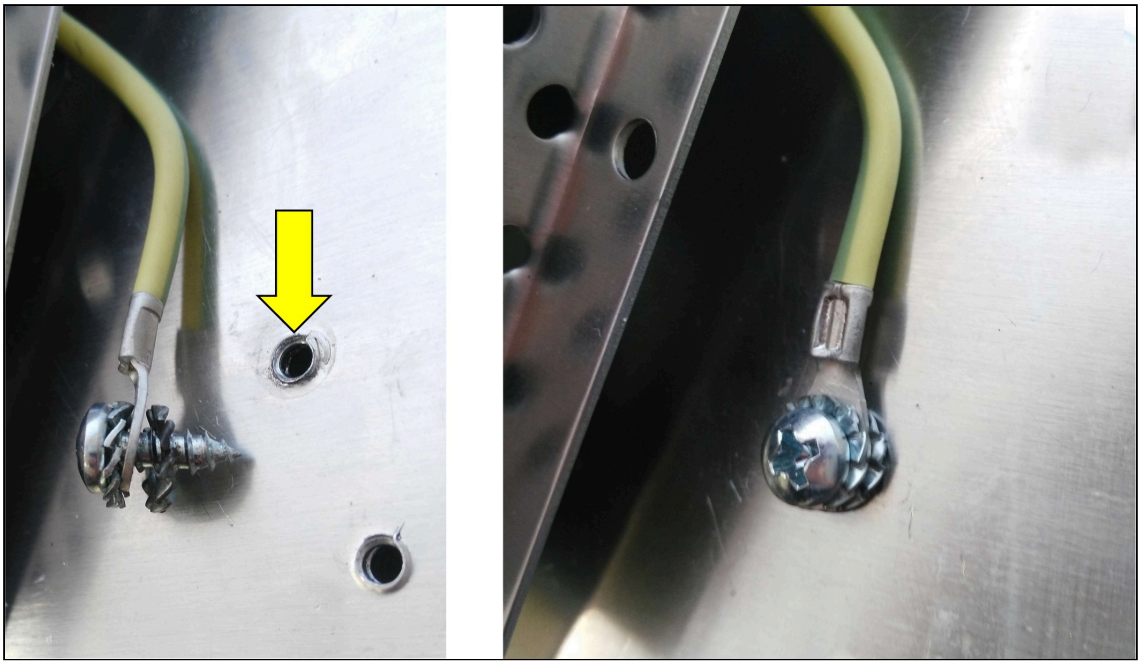
RFSFH-61 terminal	Connect
PT100	PT100 surface temperature sensor (two conductors)
N	N from switch
N	Heating element
LS	Thermal protector (see step 11)
L	L from switch

The thermal protector is connected to the heating element. The earth terminal is connected to the panel (see step 12).

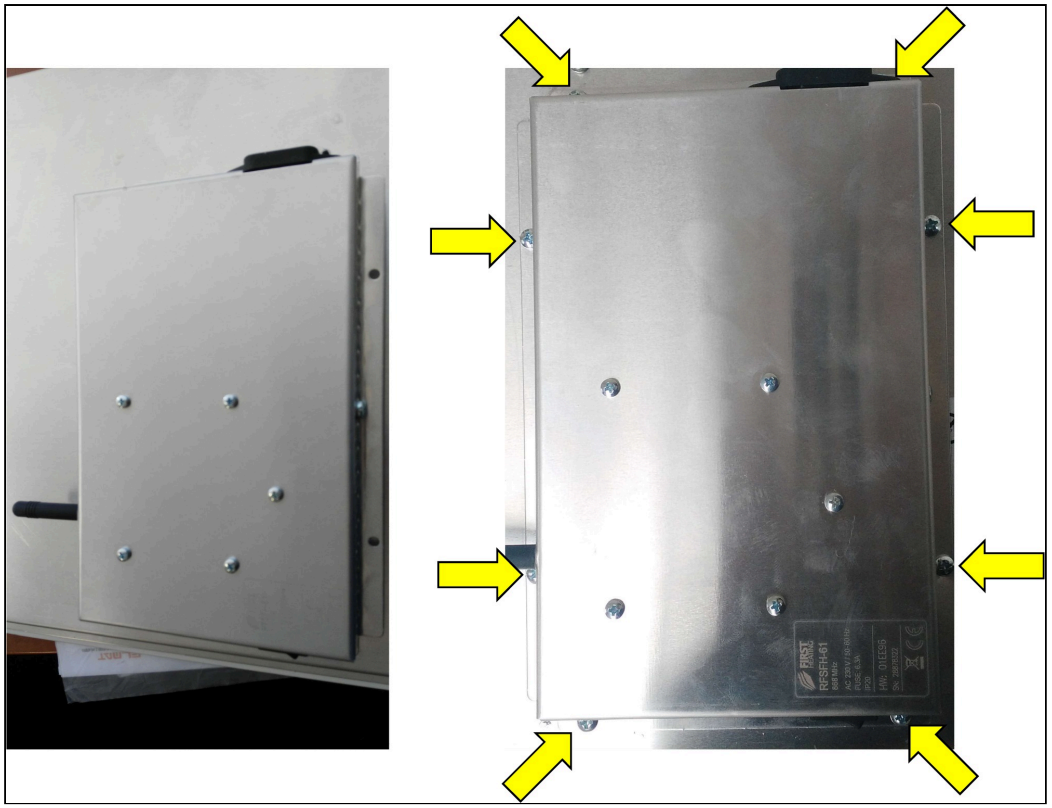
11 Turn the PCB housing over and connect the thermal protector to LS on the PCB.



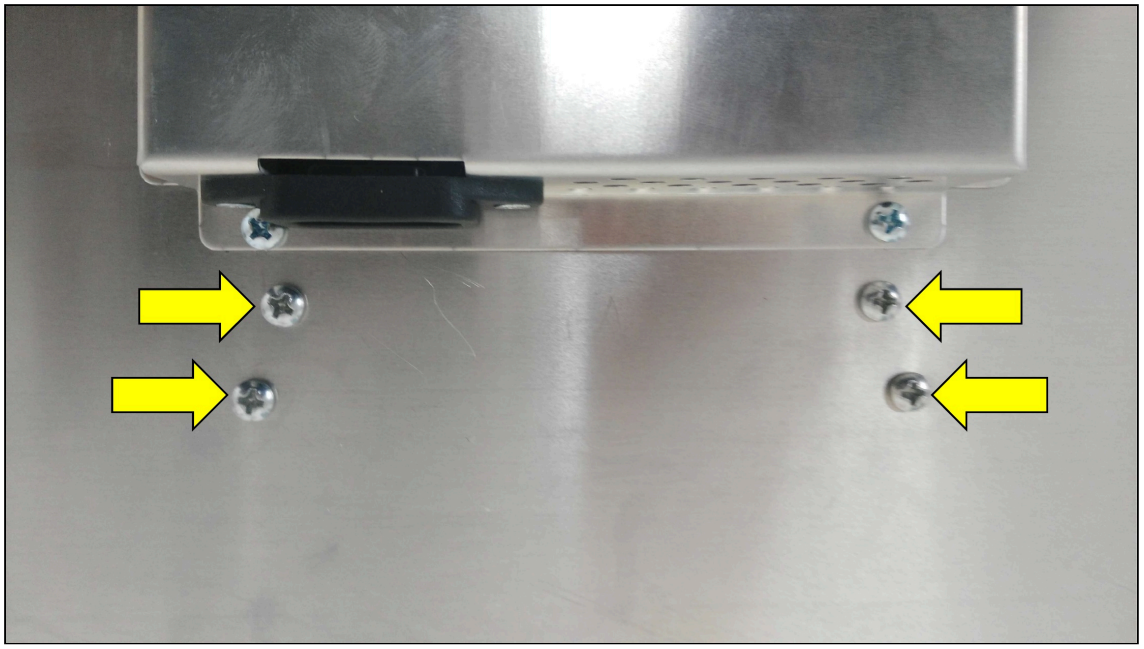
12 Connect the earth terminal to the panel.



13 Position the PCB housing for final installation. Using a drill driver with a Phillips bit, drive the eight self-tapping screws into the sheet metal of the panel.



14 Close the remaining holes in the sheet metal using the remaining screws.



6.3 Completion

15 Reconnect the power cable and place the panel in its original position.

16 The spare parts (RFSFH-61B receiver and RFTC-50 thermostat) are already paired to work together on delivery. Refer to the WIST NG panel user manual for operating instructions.