SERVICE MANUAL

COOKING

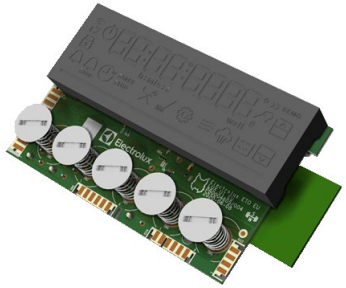
FOR INTERNAL AND PARTNERS USE ONLY

© ELECTROLUX HOME PRODUCTS
Consumer Service - EMEA
Quality & Continuous Improvement - Technical Support

OVEN

LUX

Low User Experience



EN

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1 PURPOSE OF THIS MANUAL

The purpose of this Service Manual is to provide Service Engineers who are already familiar with the repair procedures with information regarding: Smart Ovens with the Connected User Interface Low User Experience (LUX)

Document Revisions

Rev.	Date	Description	Author
00	05/2021	Document creation	BSP
01	02/2022	Nordic Service Suggestions Document correction	BSP

2 SAFETY

- All the work to be performed inside the appliance requires specific skills and knowledge and may only be carried out by qualified and authorised Service Engineers
- Before you access internal components, take the plug out of the socket to disconnect the power supply.
- Some of the components in the mechanical part could cause injuries, so wear suitable protection and proceed with caution.

3 LUX

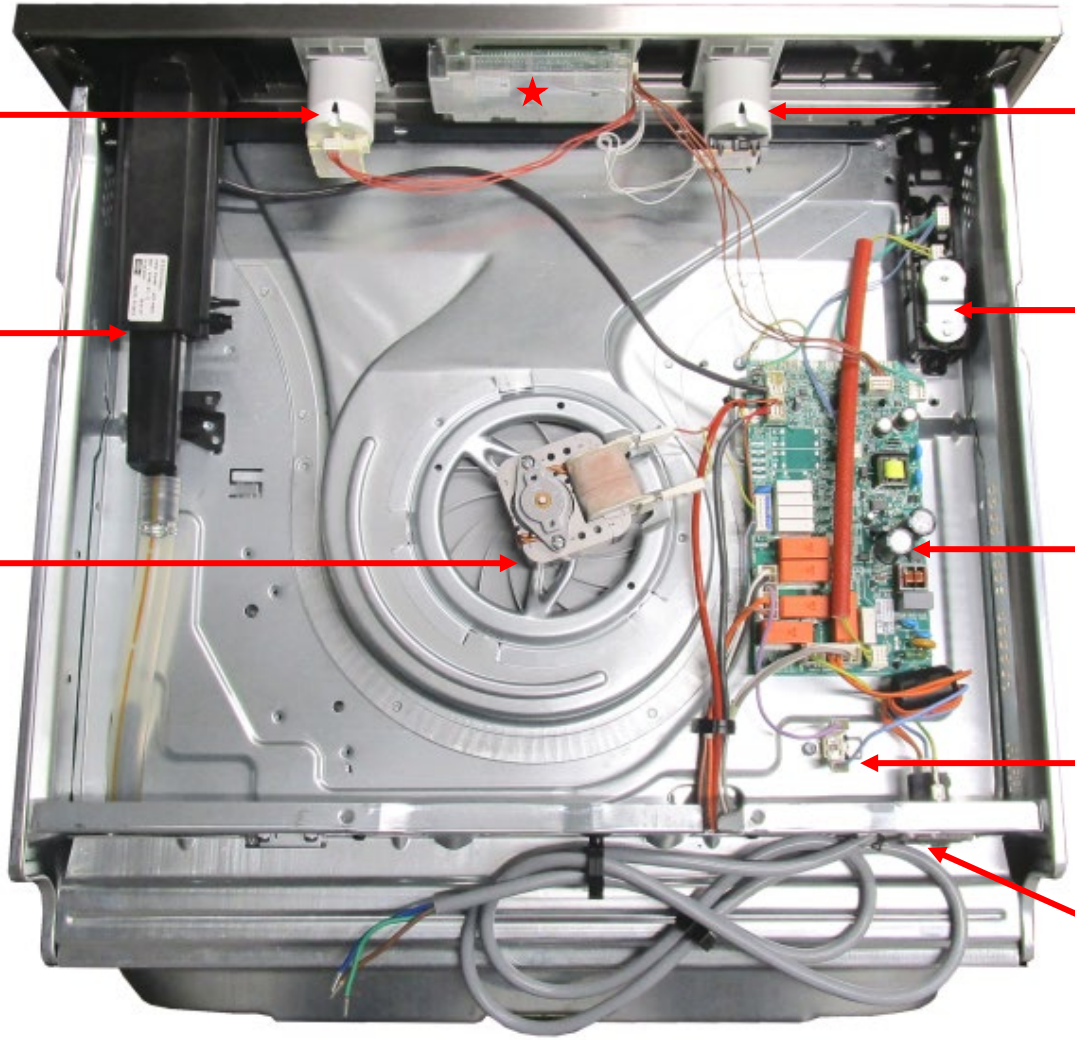
3.1 LUX Evolution

User Interface Hexagon	User Interface LUX
Only time or only temperature	Time and temperature at same time
Limited feedback oven	LED bar showing progress (heating up)
3 touch buttons for quick access	5 touch buttons for quick access
Static display	Dimming function to highlight current settings
	Connectivity

3.2 LUX Variants

	Double Oven
	Direct Steamer
	Cooker

3.3 Structure Sputnik platform "LUX"



Selector

Water drawer

Cooling ventilator

Hot air oven function

After switching off

150°C → 110°C → ~14min

200°C → 110°C → ~24min

★ User interface LUX

Selector oven function

Global door lock (Pyro)

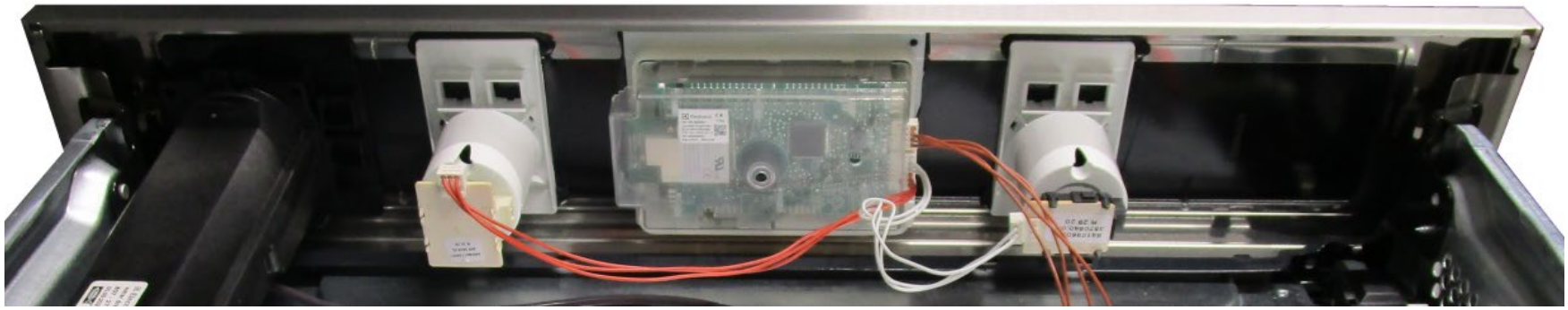
Main electronic
OVC-R5000

Safety thermostat

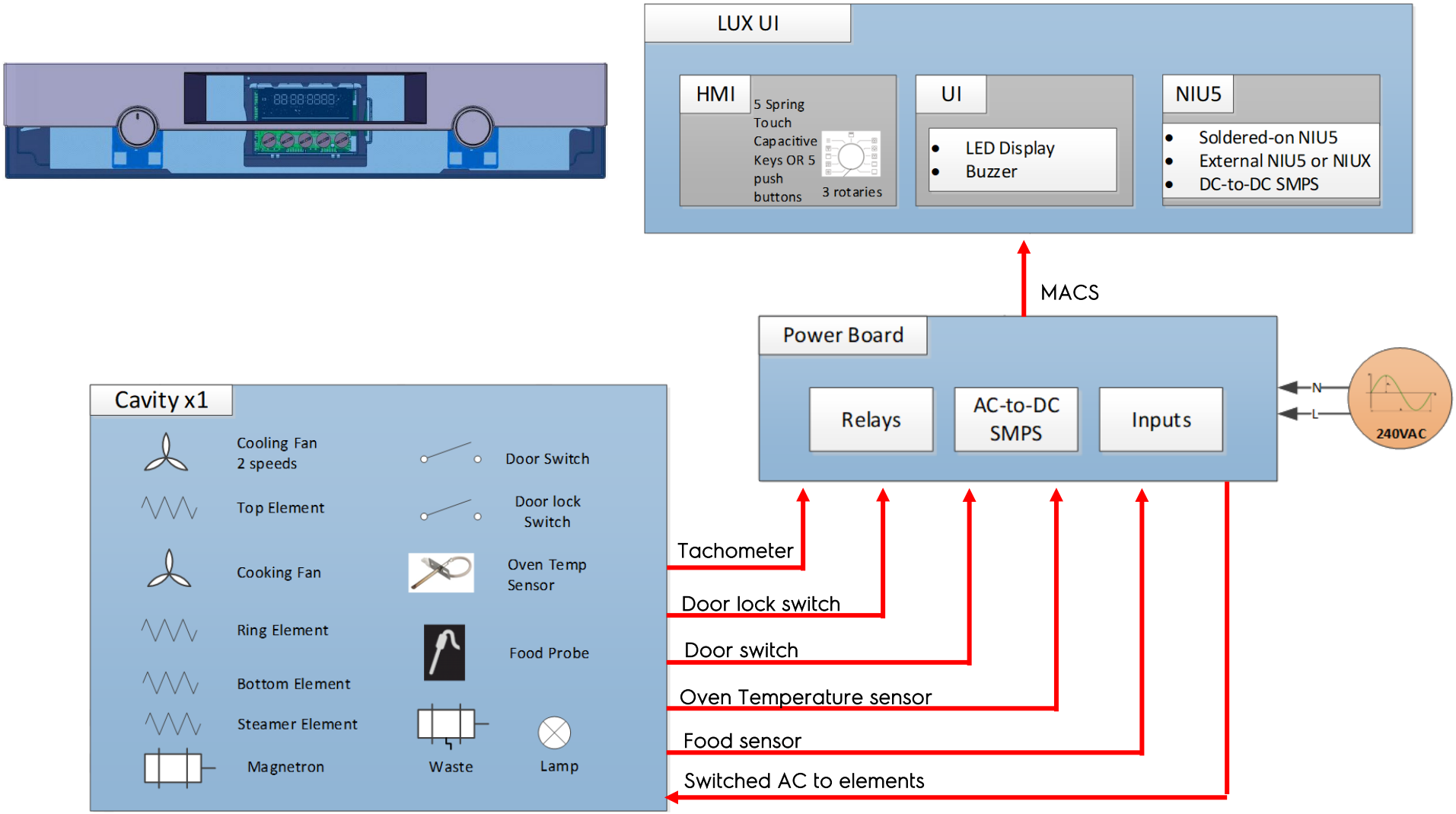
Junction box

main power supply

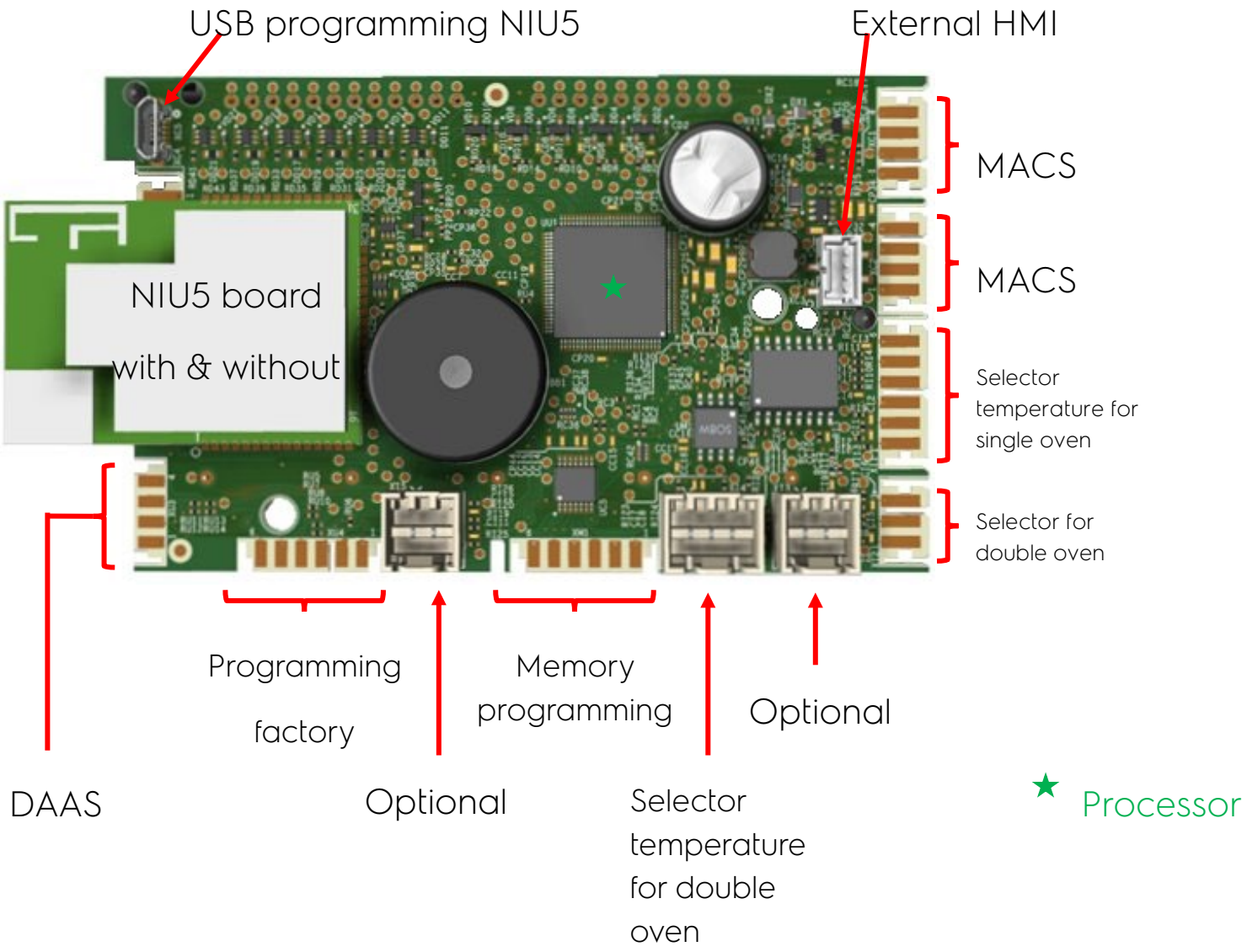
3.4 Panel & Selector

Direct access to timer Temperature Time Menu			Oven function
			

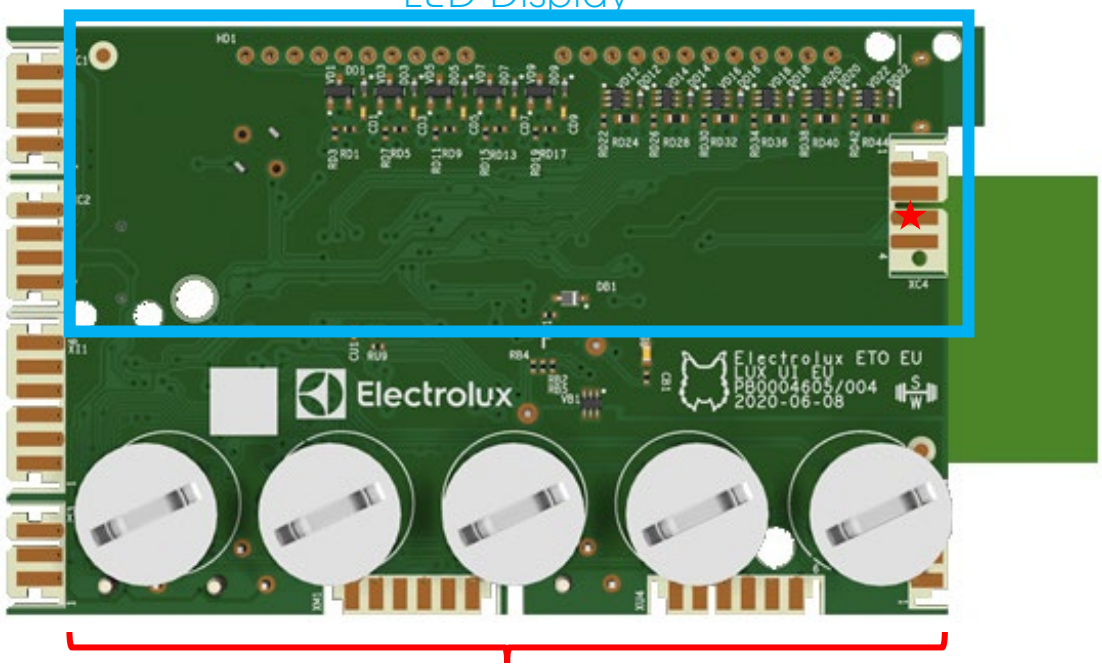
3.5 Block diagram "LUX"



3.6 User interface "LUX"



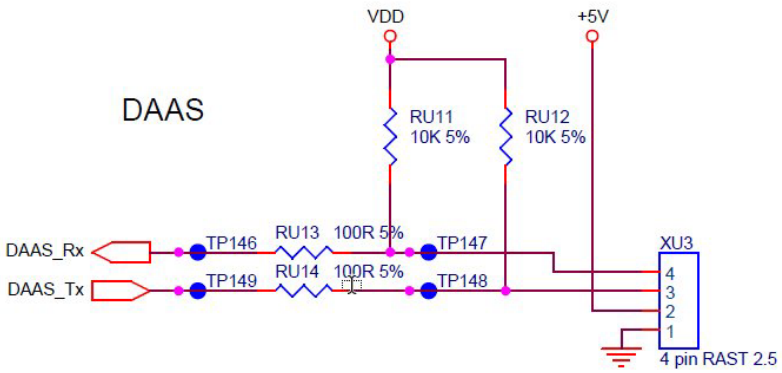
LED Display

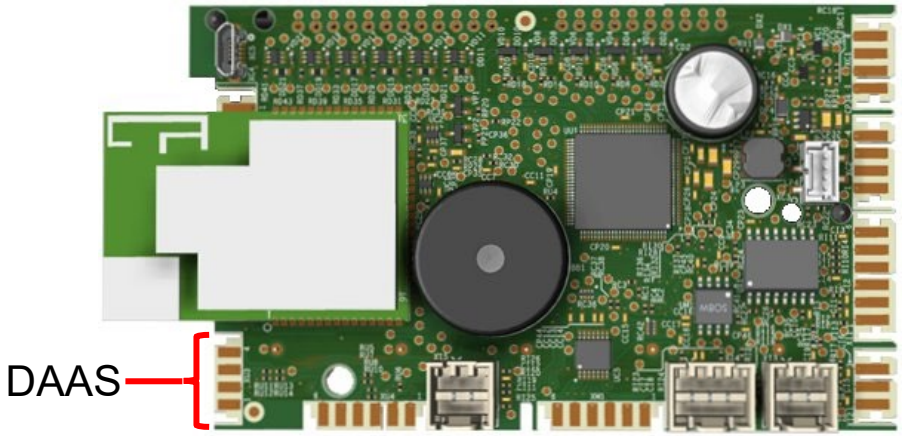


5 Touch buttons

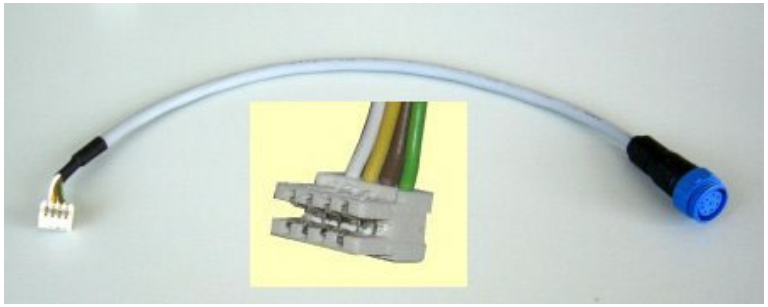
★ External NIU5

3.6.1 SidekickPC "LUX (2021)"





Sidekick adapter from dishwasher



4: Target Device RxD (TxD Host) → green
3: Target Device TxD (RxD Host) → brown
2: +5VDC (regulated) → yellow
1: GND → white

Reprogramming at consumer home by SidekickPC:
e.g. to delete a bug in the software !
i.e.
- Descaling counter → is set to zero !
- Cleaning counter → is set to zero !
- Setups → will be deleted !
- Serialization → will be deleted !

Attention: The information for serialization is still stored on NIU5-board !

3.6.2 SidekickPC "LUX (2021)" Spare part situation

LUX with Wi-Fi

The warehouse delivers !

Complete ready configured user interface → **Service-kit ref. 982… … !**

Includes:
- Oven configuration files.
- NIU5-board configured with secrets.
- MAC address registered on the Sidekick database.
- User interface as spare part declared.

LUX without Wi-Fi

Complete ready configured user interface → **Service-kit ref. 982… … !**

Includes:
- Oven configuration files.

Non-configured user interface → **Naked board ref. 140… … !**

3.7 Touch-keys of the different oven types

Timer

- To access the different timers; sound alarm; alarm, stop and delayed start.

Fast Heat Up

- To speed up the heating up process.

Lamp

- To turn the oven cavity light on or off.

OK

- To confirm settings and actions and to navigate in menu.

Microwave Power

- To adjust the microwave power level.

Lock

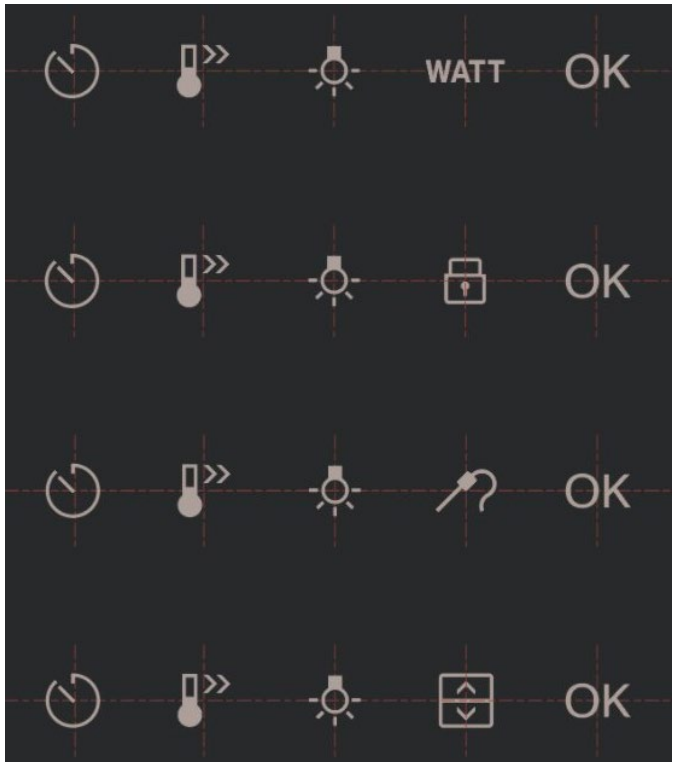
- To lock and unlock the oven in standby and while running.

Food Sensor

- To set a target temperature for the food sensor.

Cavity switch

- To shift focus (monitor and control) between cavities in a double oven.



Microwave Key Models

Key Models without FS or MW

Food Sensor Key Models

Double Oven Key Models

3.7.1 Touch-keys about key combination

Key Models without FS or MW	+	SW version
	+	Factory test mode, available only 20sec. from voltage supply.
Food Sensor Key Models	+ OK	Child lock / Oven lock
	+	SW version
	+	Factory test mode, available only 20sec. from voltage supply.
Microwave Key Models		
Double Oven Key Models		

3.8 Display “LUX (2021)”

WiFi and Remote Operation

START STOP Delayed start

Uptimer

h : min : s Time indication

Lock

Assisted cocking

Sound alarm

Cleaning

STOP Sound alarm and stop cooking

Settings

Microwave

watt Microwave power

Steam

Steam tank water level

DEMO Demo mode

o Degree sign

» Fast heat up

Food sensor

g Weight indication (gram)

Cavity indication

3.8.1 Display “Progress LED bar”

The **progress LED bar** consists of ten segments. Each segment consists of a red LED and a white LED which can be illuminated and dimmed separately.

<table>
<tr><td>The progress LED bar has various functions:
- Temperature state (cavity, set temperature)
- Running time (Microwave, cleaning)
- Highlighting error messages
- etc.</td><td>
</td></tr>
<tr><td> </td><td></td></tr>
<tr><td>
</td><td>Heating up phase</td></tr>
<tr><td>
</td><td>Cooling down phase</td></tr>
<tr><td> </td><td>Microwave: The remaining runtime is displayed in red.</td></tr>
</table>

3.8.2 Display examples

Time of Day

Standby Time of Day

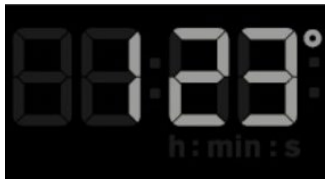
Runtime

Food sensor temperature

Set Food sensor temperature

Set

temperature



Cavity

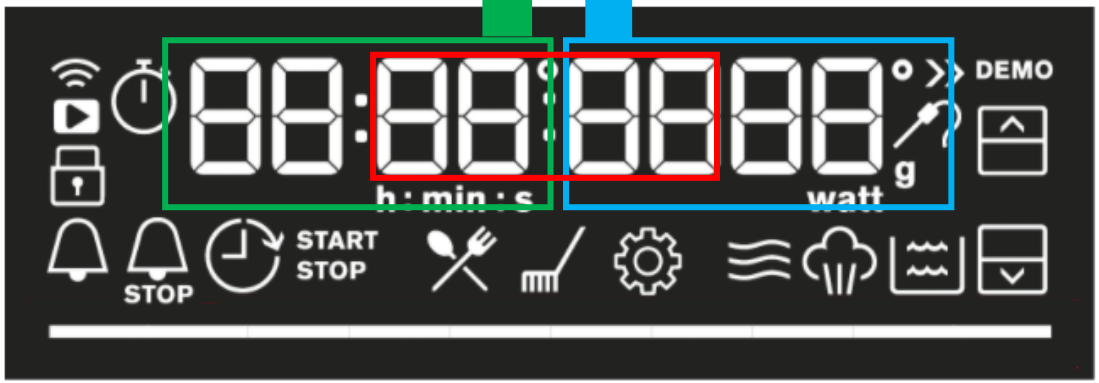
temperature

Set

temperature

Microwave power

APP indication



Wight

Microwave:

- WiFi is activated, Remote control is not activated.
- Runtime is 0:44 Minutes.
- Power is 800 Watt.
- LED bar is at the beginning of the program.

Oven:

- WiFi is activated, Remote control is activated.
- Set temperature is 200°C (toggling cavity temperature).
- Assisted cooking oven function is selected.
- Target food probe temperature is 60°C.
- LED bar is close to the set temperature.

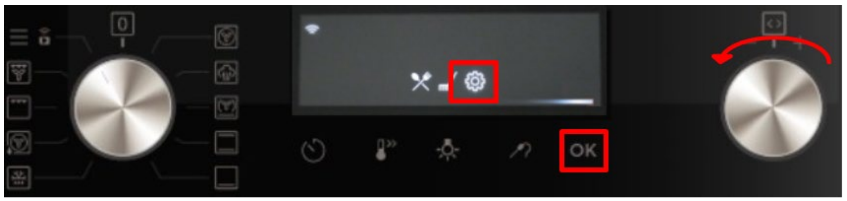
Oven:

- WiFi is activated, Remote control is activated.
- Cavity temperature is 20°C.
- Set temperature is 150°C.
- LED bar is at the beginning of the program.

Oven:

- WiFi is activated, Remote control is activated.
- Runtime is 5:23 Minutes.
- Alarm stop cooking oven function is selected.
- Set temperature is 120°C.
- LED bar or cavity has reached the set temperature.

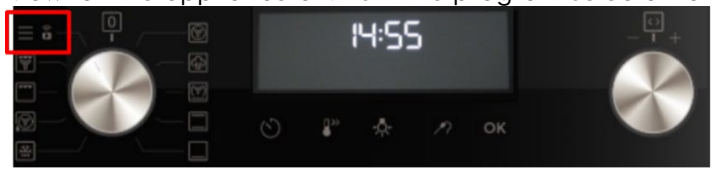
3.8.3 Settings

1. Switch the appliance on. Turn the program selector to **"Menu"**.	
2. Turn the selector to **"Settings"** → **"OK"**.	
3. **"Settings 01"** appears	

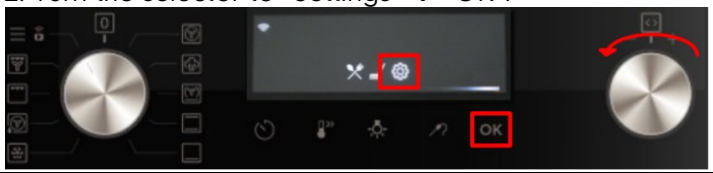
Step	Settings	Activities
01	Time of day	Change
02	Display brightness	1 - 5
03	Key tones	1 - Beep, 2 - Click, 3 - Sound off
04	Buzzer volume	1 - 4
05	Food sensor action	1 - Alarm and stop, 2 - Alarm
06	Uptimer	On / Off
07	Light	On / Off
08	Fast heat up	On / Off
09	Cleaning reminder	On / Off
10	Wi-Fi	On / Off
11	Auto remote operation	On / Off
12	Forget network	Yes / No
13	Demo mode	Activation code 2468
14	Software version	Check
15	Reset all settings	Yes / No

4 DEMO MODE LUX (2021)

1. Switch the appliance on. Turn the program selector to "Menu"

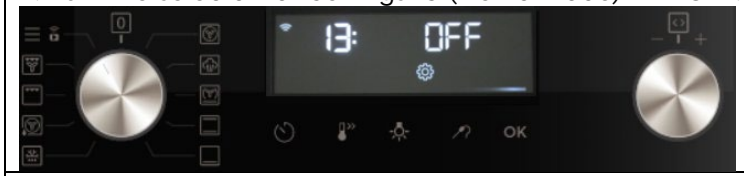


2. Turn the selector to "Settings" → "OK".



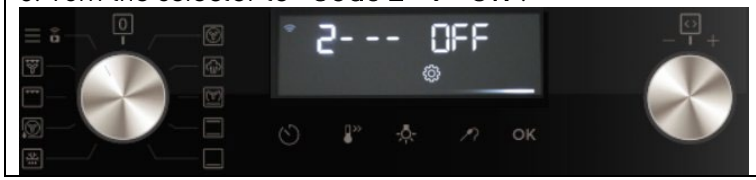
3. "Settings 01" appears.

4. Turn the selector to "Settings 13 (Demo mode)" → "OK".



5. Activation code entry appears → **2 : 4 : 6 : 8**

6. Turn the selector to **"Code 2"** → **"OK"**.



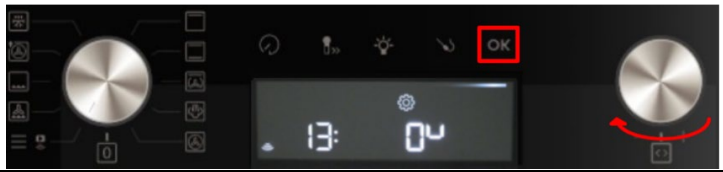
7. Turn the selector to "Code 4" → "OK".

8. Turn the selector to "Code 6" → "OK".

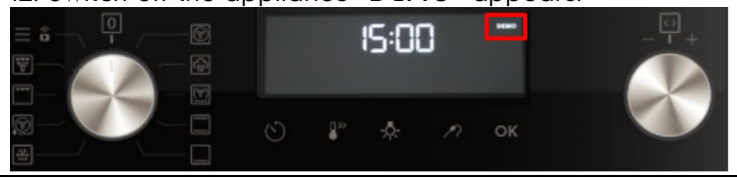
9. Turn the selector to "Code 8" → "OK".

10. "Settings 13" appears

11. Turn the selector to "On" → "OK".



12. Switch off the appliance **"DEMO"** appears.



Deactivate demo mode: Same procedure.

5 SERVICE MODE LUX (2021)

Activate service mode: The appliance is in off-state.

Attention: 1. The water tank must be empty!
2. The Service Mode can be cancelled in any steps (unplug and re-plug the appliance), except after exchanging of the user interface!

1. Unplug and re-plug the appliance from the main power supply.

2. The user interface will reboot.

3. Afterwards, touch the **"Fast heat up"**-key and the **"Light"**-key simultaneously for 5 seconds.

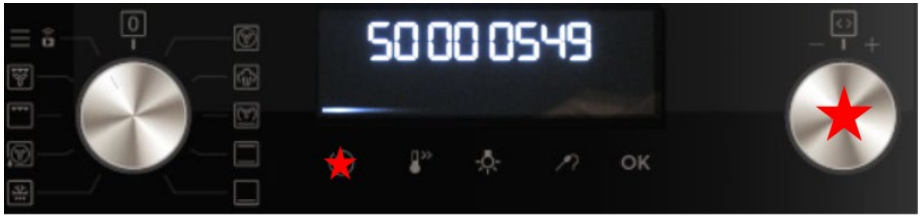
4. The user interface will reboot.

5. Display and LED bar check.

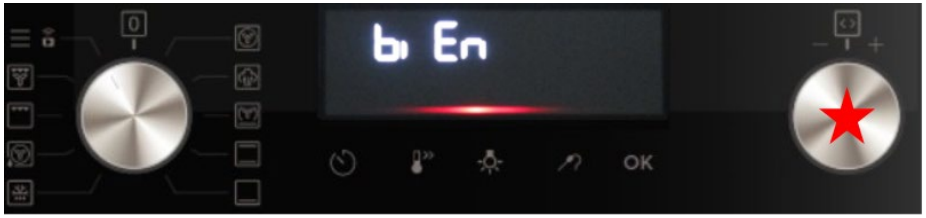
6. Key test + Software Versions →

Turn the selector anti-clockwise
to view the codes.
Touch the key to continue !

- Firmware UI LUX S00005494--8...
- Configuration UI LUX S00005487--8...
- Power board OVC-R5000 S00005679--A...
- Firmware NIU5 S00006100--A...



7. Key test + Serialization control → Door is locked ! Touch the key to continue !	
Skip the serialization control → Required when exchanging the user interface LUX with Wi-Fi ! Door is locked ! Turn the selector !	
Key test + Skip serialization → Door is locked ! Touch the key to continue !	
Key test + to continue → **Door is locked !** **Touch the key to continue !**	

8. Key test + Cooking Ventilator + Buzzer → Door is locked ! Touch the key to continue ! 	
9. Key test + Cooling Ventilator low speed → Door is locked ! Touch the key to continue ! 	
10. Key test + Cooling Ventilator high speed → Door is locked ! Touch the key to continue !	
11. Selector test: Red bar moves with an animation from right to left. a.) Rotate the Bit Encoder (selector) clockwise until you reach the far left position. The bar will follow the movement. b.) Rotate the Bit Encoder (selector) anticlockwise until you reach the far right position. The bar will follow the movement. Door is unlocked !	

12. LOAD test: Turn the program selector to position 1.	
13. Position 1: Bottom Heater + Cooling Ventilator low speed. Turn the program selector to position 2. 	
14. Position 2: Ring Heater + Bottom Heater + Lamp + Cooking Ventilator + Cooling Ventilator high speed (Pyro) → Turn the program selector to position 3 	
15. Position 3 Steam Generator → Turn the program selector to position 4 	

16. Position 4: Turn the program selector forwards to “OFF”.	
17. Food sensor test → Place the food sensor	
18. Food Sensor test → Remove the food sensor	
19. Food Sensor test → Close the door	

20. Steam Tank test → Fill water into the water tank (approx. 1ltr.)

→ Timeout max. 10sec.

Impossible to fill the water tank!

We are in discussion with ETO to extend the time in new Software, till then we have two methods to pass the test * Check the Service Bulletin

21. Grill Heater →

Wait until the relay switches off the grill.
Unplug and re-plug the appliance from the main power supply.

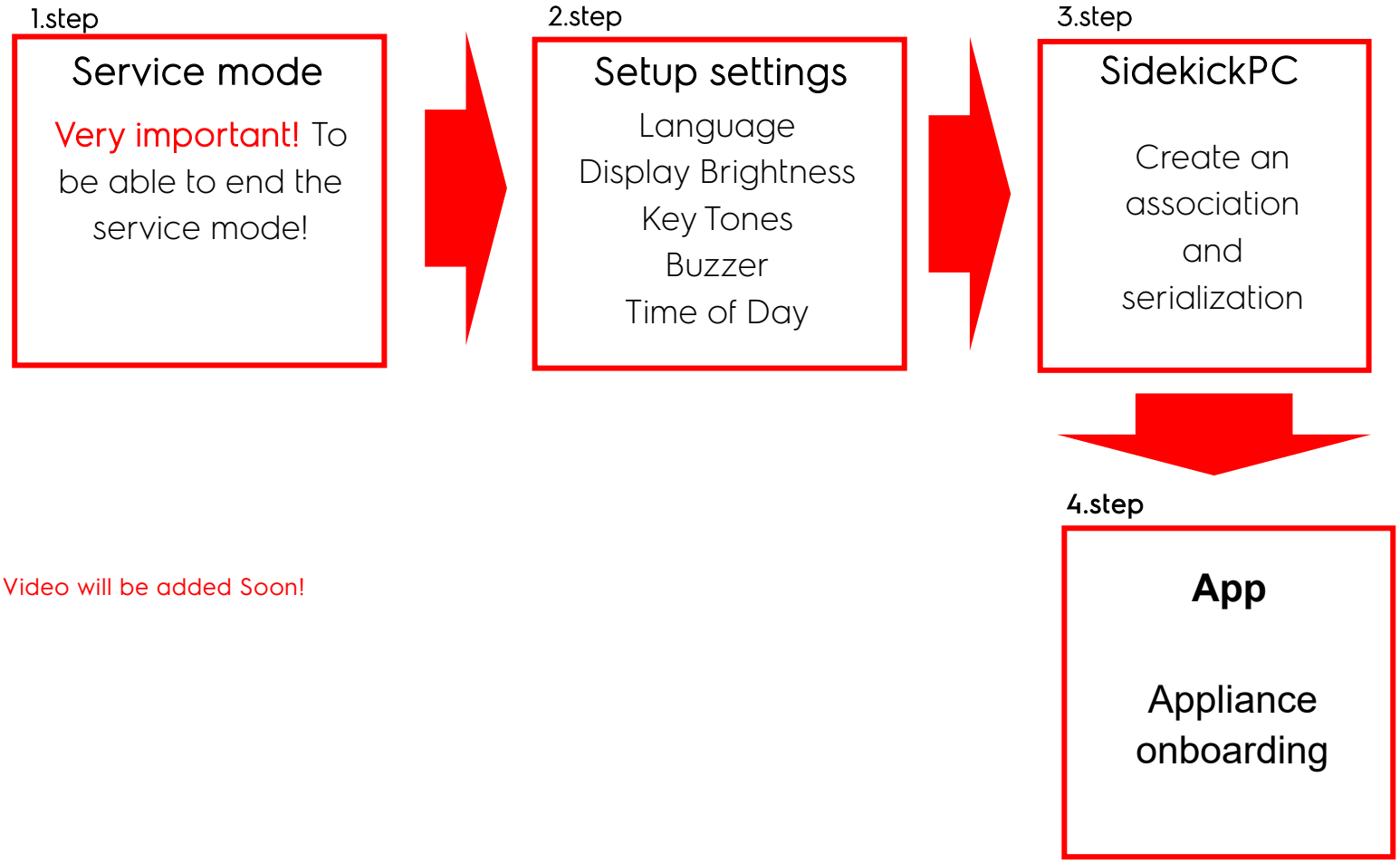
Depending on the appliance versions, other components are tested too !

Top heater
Turnspit
Magnetron
Waste actuator
Evaporator
Inlet valve
Outlet vale

5.1 Service Mode LUX (2021) association and serialization

After user interface exchange, carry out an association and serialization process!

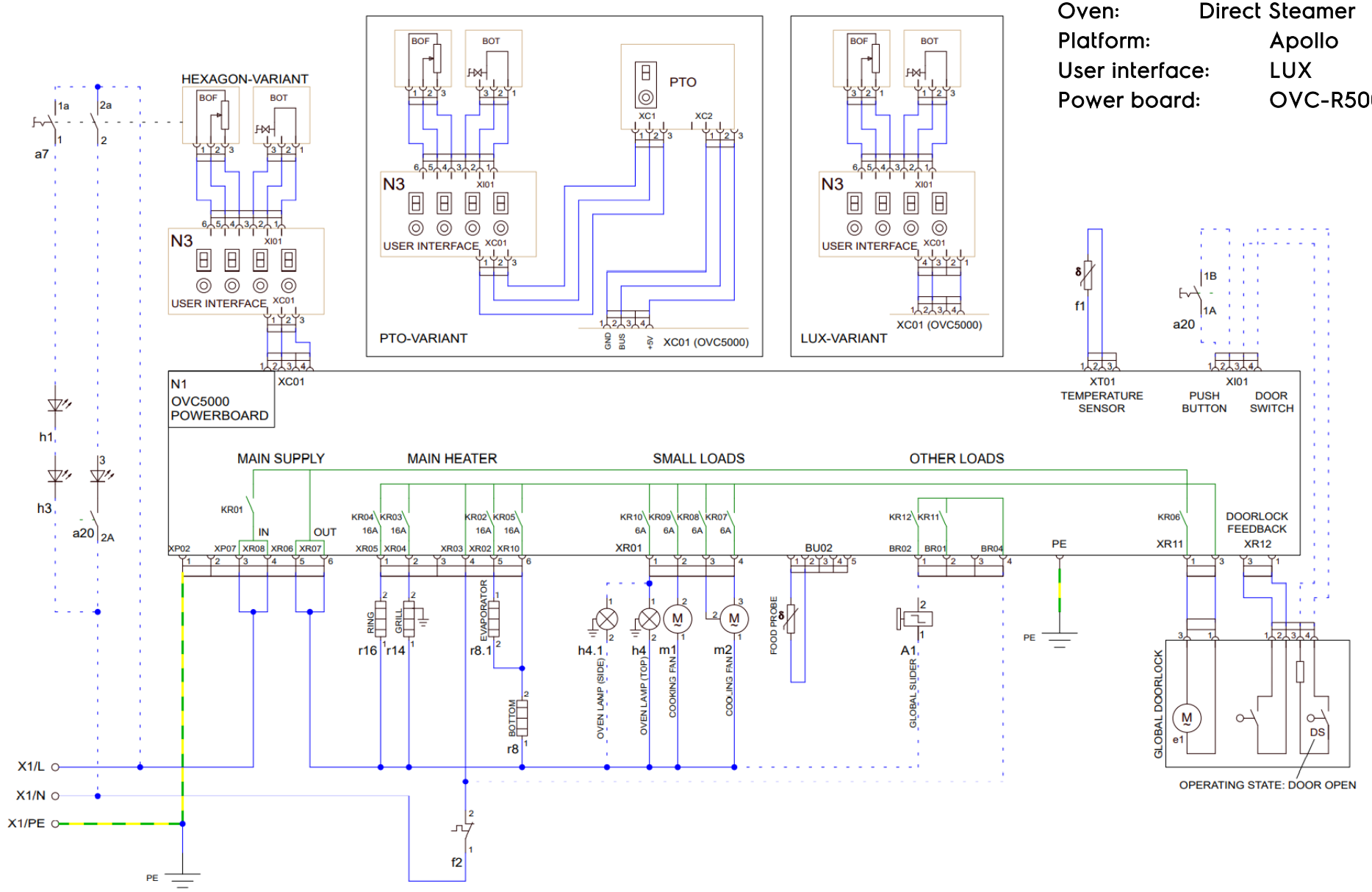
After connecting to the main power supply, the user interface starts with the **service mode!**



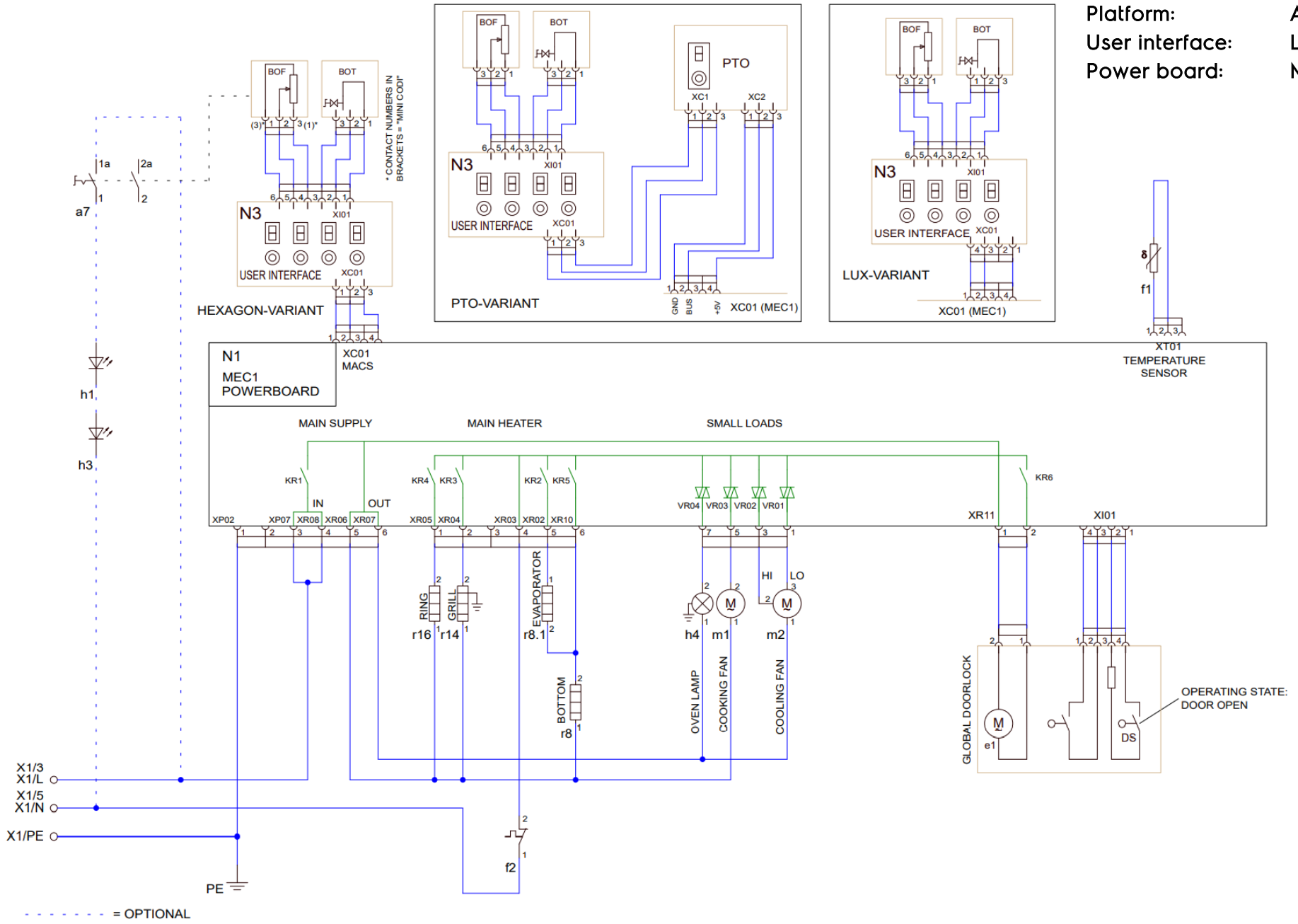
Video will be added Soon!

6 WIRING DIAGRAM

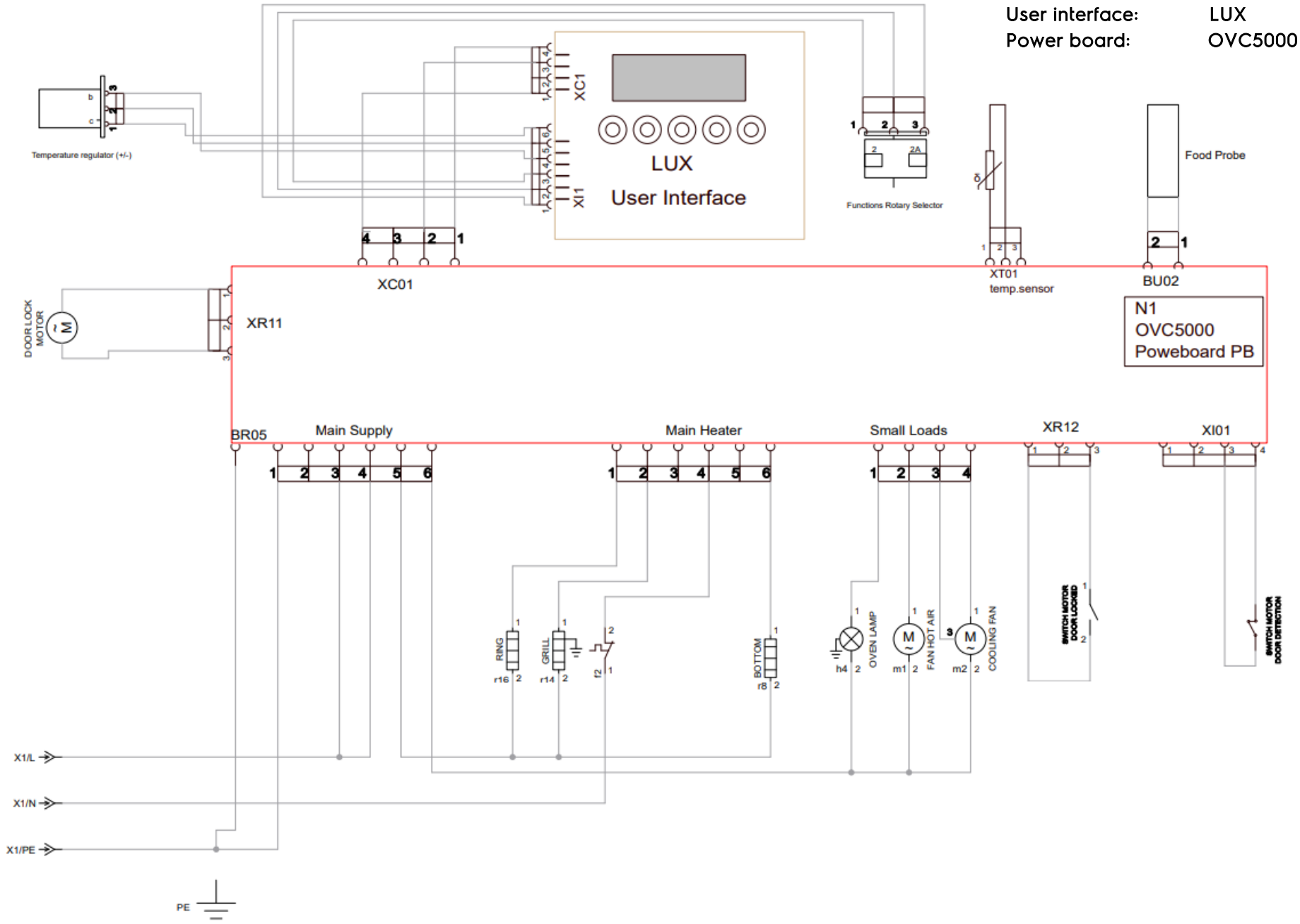
Oven: Direct Steamer
Platform: Apollo
User interface: LUX
Power board: OVC-R5000



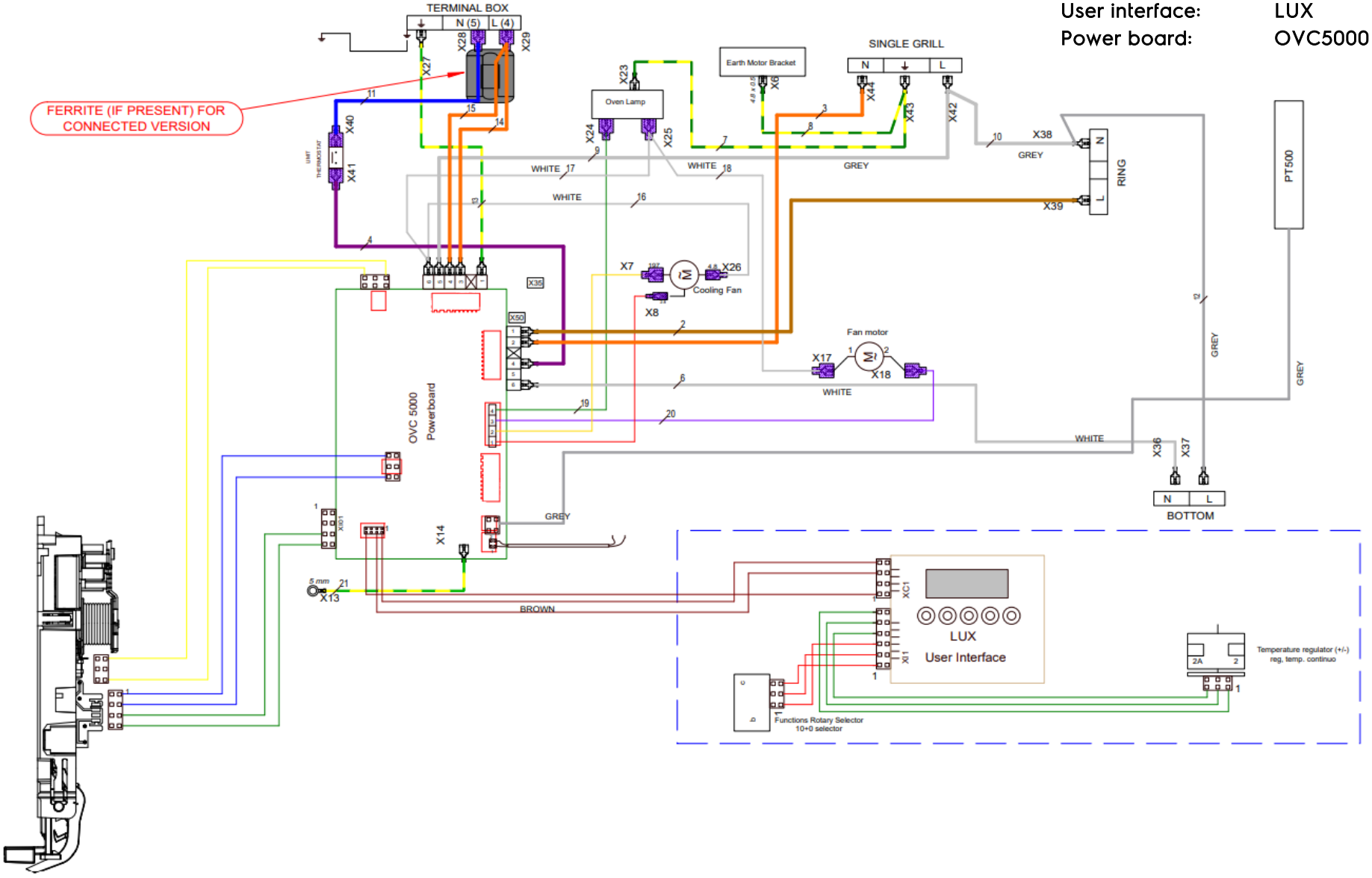
Oven: Direct Steamer
Platform: Apollo
User interface: LUX
Power board: MEC1 105°C



Oven:	Pyro
Platform:	Sputnik
User interface:	LUX
Power board:	OVC5000



Oven:	Pyro
Platform:	Sputnik
User interface:	LUX
Power board:	OVC5000



7 CONNECTED ERROR CODES

This document covers only connected error codes, for other errors refer to 599 793 313

Error Code	Reason for Error	Trouble Shooting
F601	Wi-Fi Signal miss Alarm	Procedure failures, for which the process should be retried
F602 – GTM3	NETVM communication Alarm	• Plug appliance out and in again. • Replace electronics
F603 – all	NIU Communication Alarm	• Plug appliance out and in again. • In case of wired connection between UI and NIU then check wire. • Replace electronics
F604	NIUX onboarding Alarm	Procedure failures, for which the process should be retried
F605	OTA Failure	Procedure failures, for which the process should be retried
F606	Serialization Failure	This error should not occur at customer's home, because correct serialization should be checked at end of line test. If it occurs, then serialization should be retried. Maybe replace the electronics when serialization is not possible.