![Electrolux logo]

OVEN ELUX100

UI ITEX100 GTM3

SERVICE MANUAL

COOKING

FOR INTERNAL AND PARTNERS USE ONLY

EN

CONTENTS

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: **Electro mechanical Ovens** with the Connectivity features

This SM will give deep insights of

o   WiFi Connected Oven
- GTM3 + NIU
- Camera
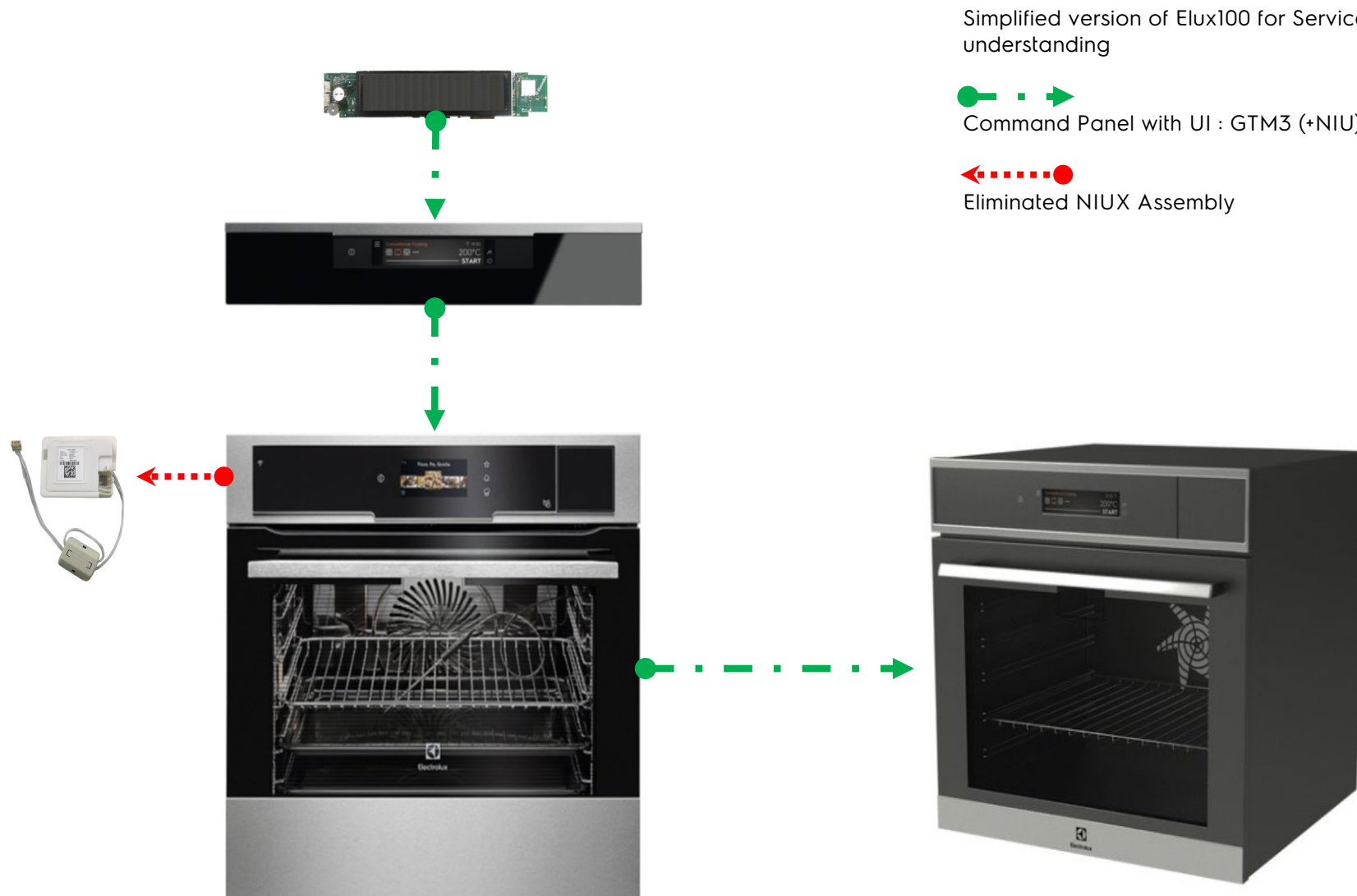- User interface iTex100

Document Revisions

Rev.	Date	Description	Author
00	04/2019	Document creation	BSP
00	12/2019	Process defined and SM released	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.

Simplified version of Elux100 for Service understanding

Command Panel with UI : GTM3 (+NIU) + iTex100

Eliminated NIUX Assembly
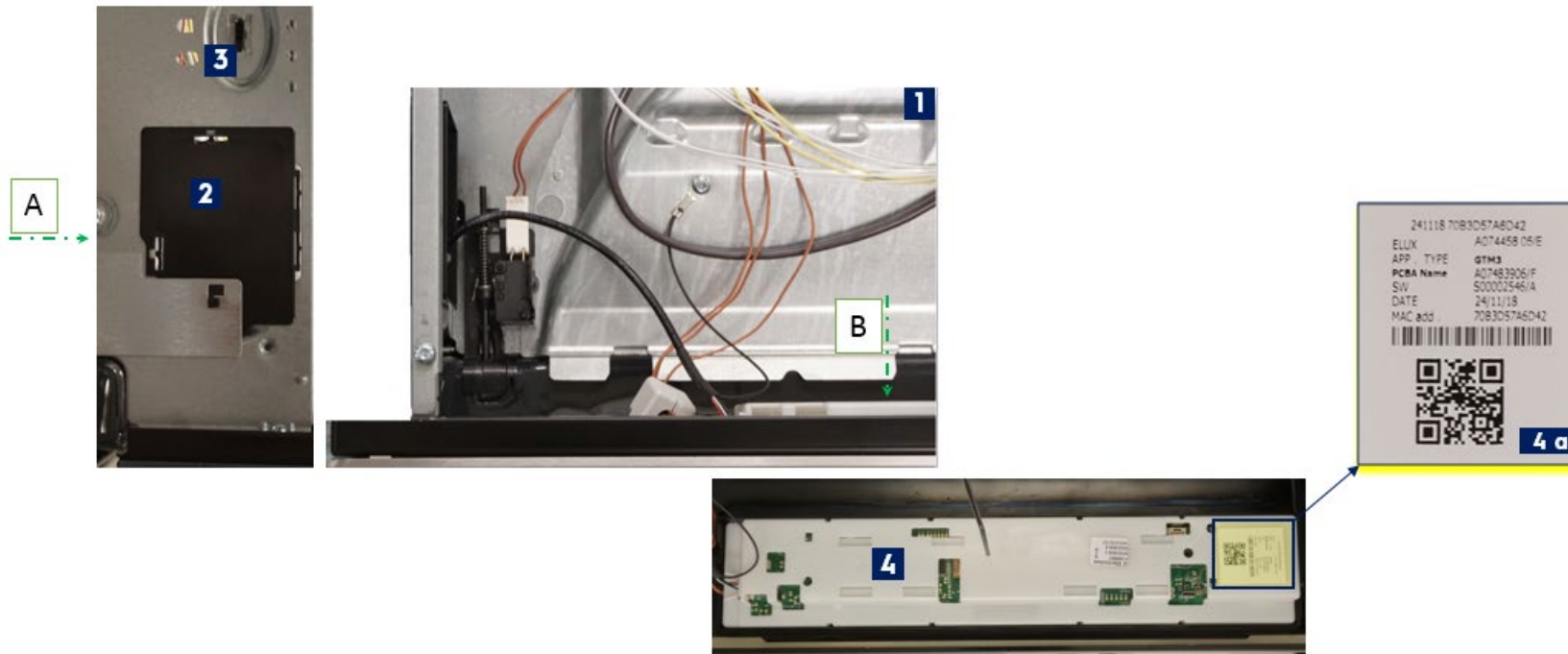
1. Front Left corner of oven

View A

2. Dummy plastic (to cover the NIUX box space)
3. Need to order programmed spare part and perform the serialization & Association process (Refer :Service Mode)

View B

4. iTEX100 UI

   4a. QR code sticker with Mac details

For all other structural reference check SUMBO SM 599 816 188

4.1 Power Electronics OVC-R 5000 7W

1. New capacitor
2. New Transformer

For all other connections refer the OVC5000 SM 599 809 969

4.2 Descaling Valve
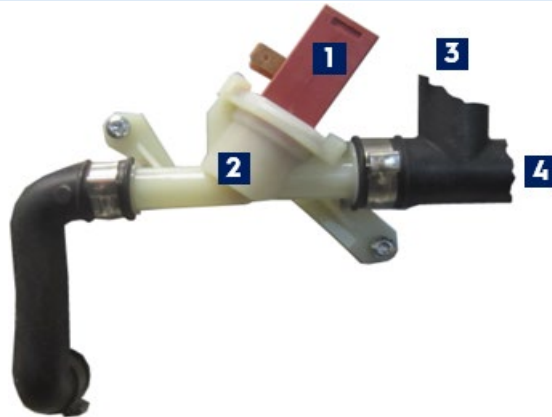
1. Wax Actuator
2. New flow Locking system
3. Water loading area
4. Steam generation area

Voltage: 230V AV 50 Hz
Resistor: 1245 Ohm
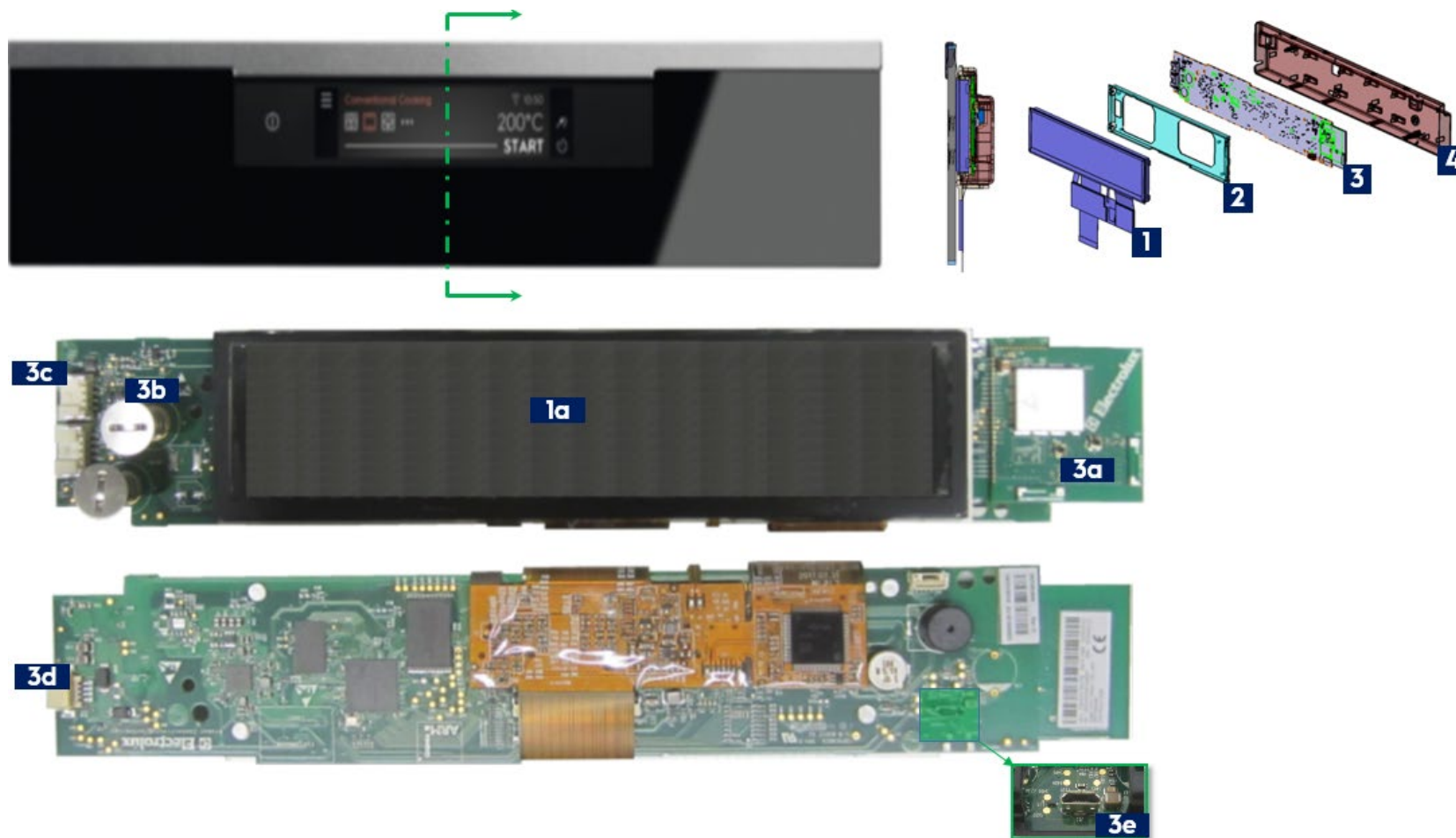
1. iTex100 Display, 1a. Touch
2. Display frame
3. GTM3, 3a. NIU (Wi-Fi board), 3b. On / Off button, 3c. 4-pol MACS POB connection, 3d. Cam connection, 3e. USB flashing (only for factory)
4. User interface (UI) cover

5.1   iTex100 UI Assembly
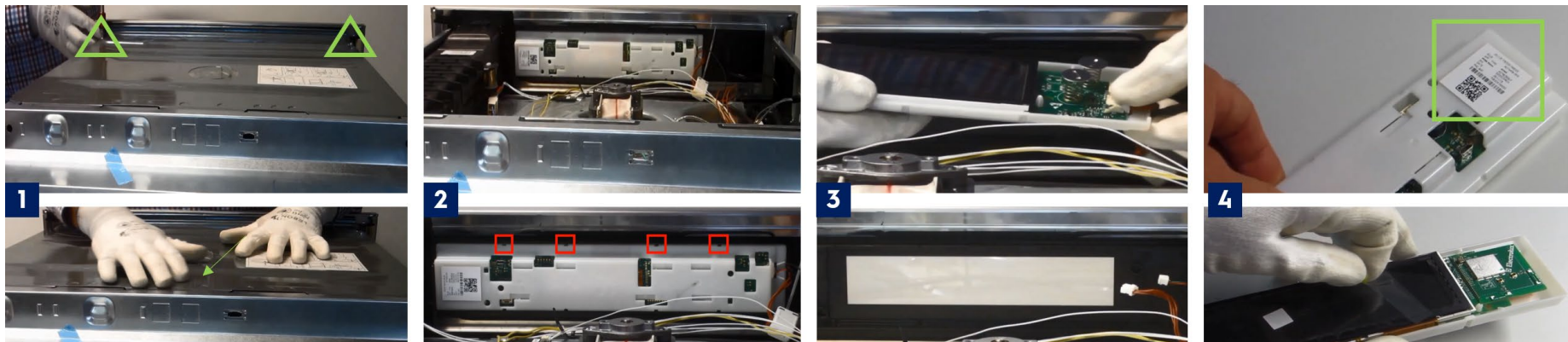
1. Unfasten the two top screws
2. Unsnap the 4 location on UI
3. Disconnect the UI connectors and take out the UI. Clean the panel glass with a soft cloth.
4. Make a note / Picture of MAC address which is in the back side. Remove the scratch film before assembling
5. Once connecting the appliance to power , the UI boots and starts the service mode (refer : Service Mode)

⚠️ Disconnect the appliance from mains voltage during this process.

5.2   Demo Mode
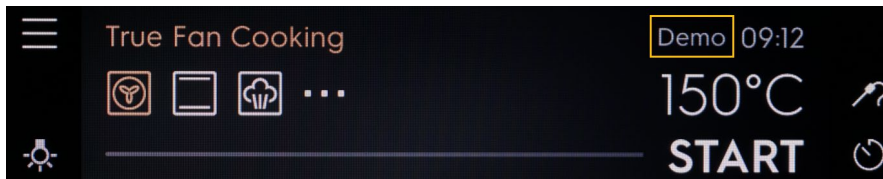
🔴 Touch the screen to reach Demo Mode

🟢 Indication if the Demo Mode is On

- To exit the Demo Mode, repeat the steps.
- Demo Mode stays active even after power failure

5.3 Service Mode

Column 1 (left):
- Screen with clock 08:59 (marked ①)
- True Fan Cooking 09:07, 150°C, START
- Menu: Assisted Cooking, Cleaning, Options, Settings
- Settings: Connections, Setup, Service
- Service: Demo Mode, Licence, Software Version
- Demo Mode — Enter code: 1 2 3 4 5 6 7 8 9 0 (code 2-4-6-8)
- *Code accepted. Service Mode activate. Next reboot will enter factory test. Do you want to re...? No / Yes 10s
- ① BOOTING...
- Button Test — Press power key
- Buzzer Test — Press Next if buzzer sound is audible
- SW ANC list: S00003936_C_A003, S00002546_A_A035, S00000745_D_OC5CC030, S00002513_B_C002, S00002632_C_T003, S00002607_B_B047, A07445805A
- Load tests — Switch to Load 1 of 11, Test of load GRILL

Column 2 (middle):
- Load tests — Switch to Load 2 of 11, Test of load BOTTOM
- Load tests — Switch to Load 3 of 11, Test of load REAR + COOKFAN + LAMP
- Load tests — Switch to Load 4 of 11, Test of load COOKING FAN
- Load tests — Switch to Load 5 of 11, Test of load COOLING FAN LOW SPEED
- Load tests — Switch to Load 6 of 11, Test of load COOLING FAN HIGH SPEED
- Load tests — Switch to Load 7 of 11, Test of load STEAMER
- Load tests — Switch to Load 8 of 11, Test of load EVAPORATOR
- Load tests — Switch to Load 9 of 11, Test of load WASTE ACTUATOR
- Load tests — Switch to Load 10 of 11, Test of load WATER INLET VALVE
- Load tests — Switch to Load 11 of 11, Test of load WATER OUTLET VALVE
- ② MacAddress — Fetching data ... Timeout in 89sec
- Appliance already serialized — 70B3D57A6D42

Column 3 (right):
- ③ Food probe temperature — Foodprobe not detected. Plug in foodProbe
- ④ Tank full — Remove tank first.
- Tank full — Drawer is out. Insert the full tank
- ⑤ Tank full — Water level detection is active. Maximum remaining time 9 sec
- ⑥ Serialization — Appliance already serialized SUCCESS
- ⑦ Tank empty — Tank should be empty, but isn't. Please check water tank sensor FAILED
- Appliance already serialized — 70B3D57A6D42
- Factory Test Done — Factory Test finished. Please restart the appliance

◯ Touch the screen to reach Service Mode and uses the Next (>) or Back (<) to navigate in Service Mode

🟡 Check the activities when the screen shows the information (1,2, …..7)

1. Keep PNC, Serial Number and MAC address ready and Open the SideKick PC 3.8.0 or greater version for Association and serialization process
2. Screens will warry at this stage depending on:
   a. No spare part changed : the screens remain as shown
   b. If its new spare part : the MAC is registered at this stage
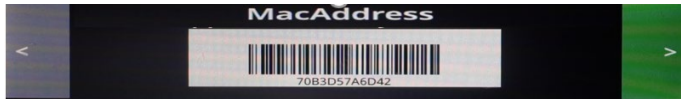
3. Insert the food probe opening the door
4. Extract the water tank and fill it with water (for better results empty the tank before the service mode is started)
5. If the water filling is taking more time or not filled and closed you will see the failed screen, go back and initiate the filling process
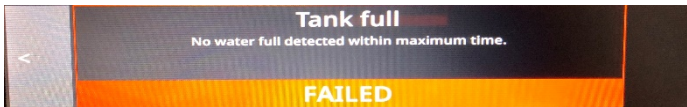
6. Screens will warry at this stage depending on:
   a. No spare part changed: the screens remain as shown
   b. If its new spare part : the sterilization & Association process has to be completed in 300 seconds using SideKick
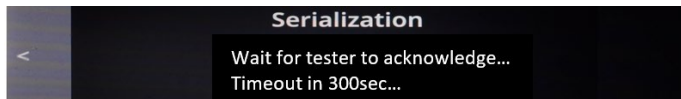
   c. If runtime has expired and no serialization has been done, an error appears. Touch On/Off button and start the service mode again
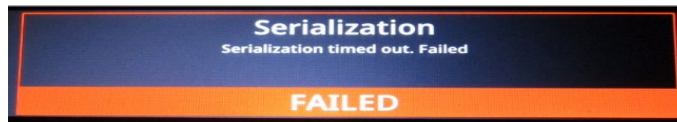
d. Open the SideKick PC
   - ➢ <u>Start the association process:</u> current MAC address is replaced by the new MAC address. PNC, ELC & serial no. are assigned on the SideKick database and to the new MAC address.
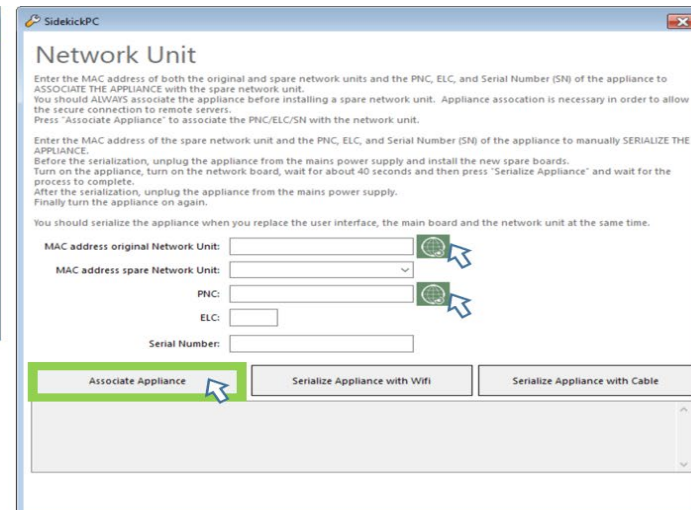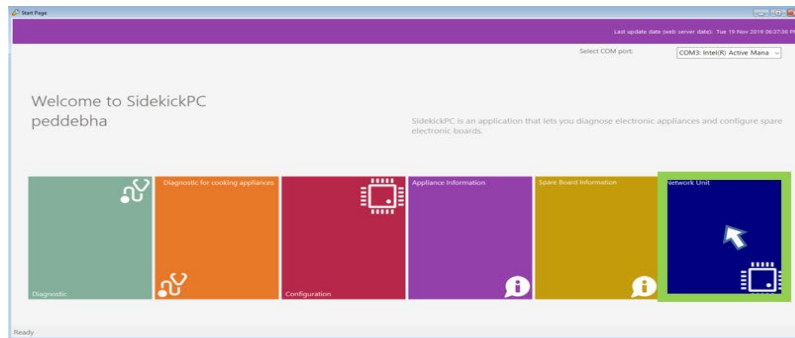
   - Enter the original MAC address or Enter the PNC, ELC & Serial no. and click the globe symbol to retrieve the data of the appliance
   - Click the Associate Appliance tab and wait for the Success message (a green strip with a happy smiley will pop)
   - ➢ <u>Start the Serialization Process:</u> PLC, ELC & Serial no. will be stored in the UI and NIU boards
   - Before starting the serilization process, check if NIU-board is active. Use mobile or Laptop

   - Enter the PNC, ELC & Serial no. and click the globe symbol to retrieve original MAC address
   - Enter the new MAC address from the spare part

- Click the serialize appliance with WIFI tab and wait for the Success message (a green strip with a happy smiley will pop)
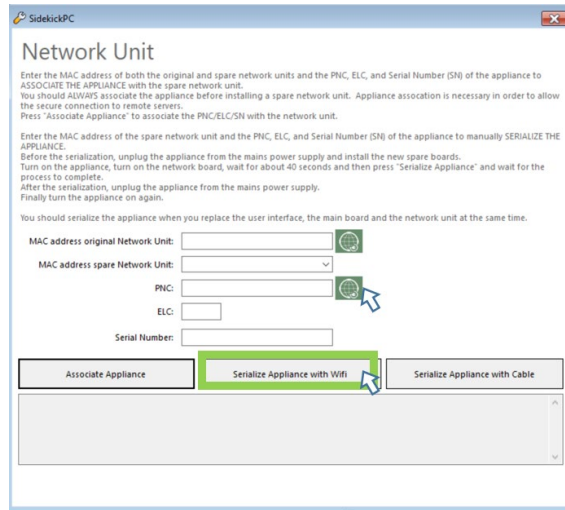
- Since it's a new spare part, onboard the appliance again
7. Tank Empty Failed message: Empty the water tank and press the back symbol to finish the factory test.

6 FAILURE TREE ANALYSIS

6.1 Oven not visible in App

```
    ┌───┐                        ┌───┐
    │ 1 │                        │ 2 │
    └─┬─┘                        └─┬─┘
      │                            │
     yes                           │
      │                            │
      ▼                            │
┌──────────────┐                  yes
│Start onboarding│                 │
│   sequence   │                   │
└──────┬───────┘                   │
       │                           │
       ▼                           ▼
              ◇                         ◇
┌──────────┐ ◇ ◇                   ◇       ◇
│De-/install│ no ◇  Oven visible   ◇  Oven shown as active ◇
│ the App   │◄───◇    in APP       ◇                       ◇
│  again    │    ◇ ◇             ◇ ◇                     ◇
└──────────┘      ◇      yes        ◇───────────────────no
                         │          │
                         ▼          ▼
                       yes    ┌──────────┐   ┌────────────────┐
                         │    │System ok │   │Check WIFI signal│
                         │    └──────────┘   │of homenetwork  │
                                             │(router, signal │
                                             │   strength)    │
                                             └────────────────┘
```

3

no

Check wiring between
NIUX and User Interface

Wiring ok?

no

yes

Check voltage on PC3
coming from SMPS

Change wiring

5V available

no

Check wiring between
User Interface and SMPS

yes

Wiring ok?

no

Change PC3

yes

Change SMPS

Change wiring

6.2 Picture not Visibile in the App

```
                    ┌─────────────────────────────┐
                    │ No camera picture inside the │
                    │             APP              │
                    └─────────────────────────────┘
                                   │
                                   ▼
                         ◇ Oven visible in APP ◇ ──── no ────▶ ┌──────────────────────┐
                                   │                            │ See „Oven not visible │
                                   │ yes                        │      in APP"          │
                                   │                            └──────────────────────┘
         ┌─────────────────────────┴──────────────────────────────────┐
         ▼                                                             ▼
┌─────────────────────────┐                        ┌─────────────────────────────────┐
│ Adapter cable for        │                        │ Alternative: check voltage on    │
│ checking camera picture  │                        │ USB cable                        │
│ with PC                  │                        └─────────────────────────────────┘
└─────────────────────────┘                                          │
         │                                                           ▼
         ▼                                           ┌─────────────────────────────────┐
┌─────────────────────────┐                          │ Check USB 5V for camera on NIUX │
│ Check USB cable          │                          └─────────────────────────────────┘
└─────────────────────────┘                                          │
         │                                                           ▼
         ▼                                                      ◇ 5V ok ◇
   ◇ Picture visible ◇ ── no ──▶ ┌──────────────────────┐ ◀── no ──┘    │
   ◇    in PC?       ◇           │ Disamsemble Door,    │              │ yes
         │                       │ handle...            │              ▼
         │ yes                   └──────────────────────┘        ┌──────────────┐
         ▼                                │                      │ Replace NIUX │
┌──────────────┐                          ▼                      └──────────────┘
│ Replace NIUX │                 ┌──────────────────────┐
└──────────────┘                 │ Check 5V on USB       │
                                 │ cable camera side     │
                                 └──────────────────────┘
                                          │
                                          ▼
┌──────────────┐                      ◇ 5V ok ◇ ── no ──▶ ┌──────────────┐
│Replace camera│ ◀── yes ──────────────┘                  │ Replace USB  │
└──────────────┘                                          │ Wiring       │
                                                          └──────────────┘
```