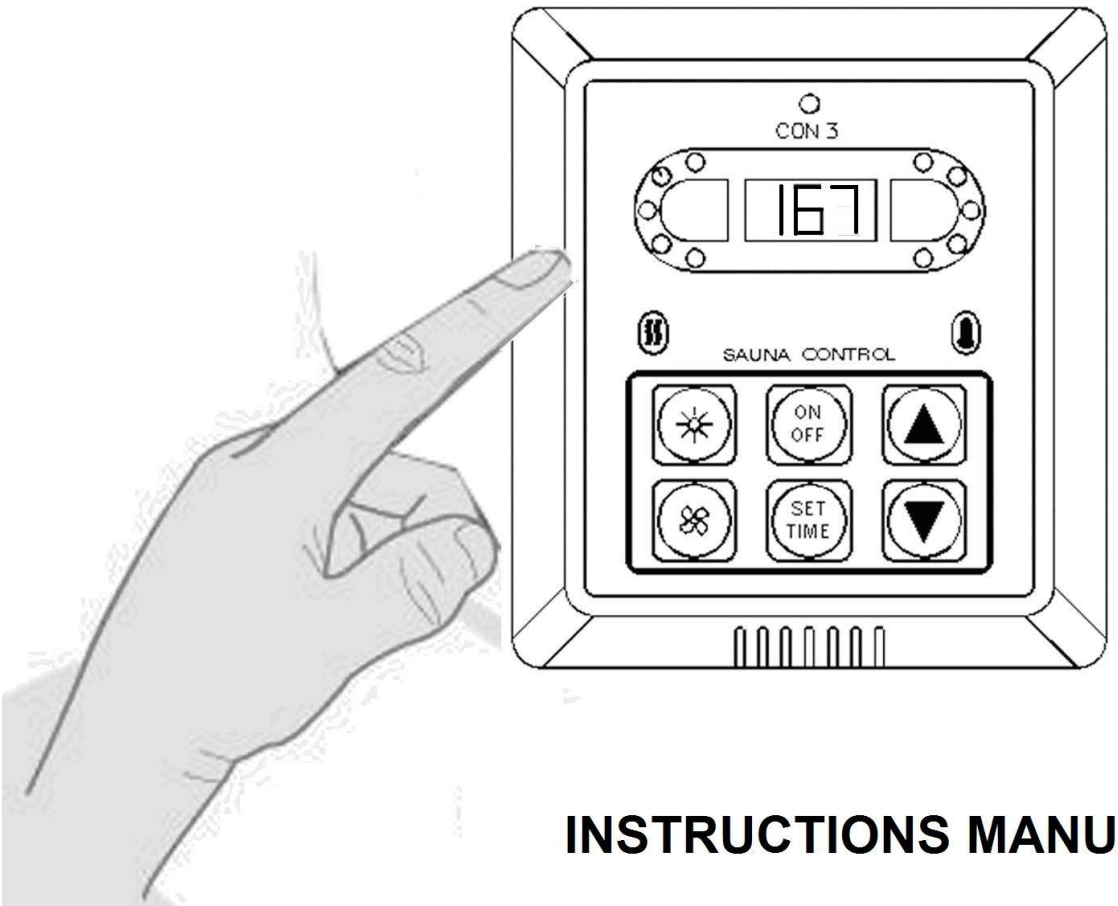
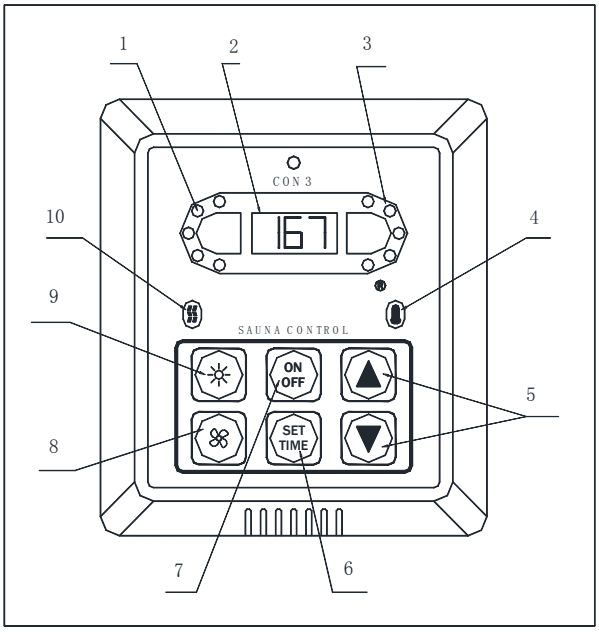
SAUNA CONTROL
CON3



INSTRUCTIONS MANUAL

CON3/140621

SAUNA CONTROL CON3



1. Time indicator 2. Temperature display (or display waiting time when in waiting mode) 3. Time indicator 4. Heat preserving indicator 5. Temperature and Time adjust button 6. Time setting button 7. ON/OFF 8. Fan switch 9. Lamp switch 10. Heating indicator

Figure 1 Sauna control panel CON3

ON/OFF

Press “ON/OFF” button to turn on the control panel, system enters waiting mode if applicable or heat-up mode depending on user's setting.

Press “ON/OFF” in waiting mode, system stops waiting and enters heat-up mode immediately; Press “ON/OFF” in heat-up mode or heating-up time is up, system switches off.

CHANGE TEMPERATURE UNIT

Press both “▲” and “▼” button for more than 3 seconds to switch between temperature units, “ ℃” and “ ℉” appears on the screen by turns. Release both button when the temperature unit you wish to choose appears, this will confirm your choice. 3 seconds later, the temperature unit display disappears and screen resume to display current temperature in the unit you have chosen.

CHANGE TEMPERATURE SETTING

Press “▲” or “▼” button to adjust temperature，the screen blinks and display the previous setting temperature in the range of 158－194℉（70－90℃）. Press “▲” to increase 2℉（1℃） or press “▼” to decrease 2℉（1℃），until you satisfied. System will confirm your setting after 5 second no operation, and the screen resumes displaying current temperature.

CHANGE HEATING TIME SETTING

Press “SET TIME” button to adjust the heating time. Press “▲”or “▼” to adjust minute value in the range of 1～60. Press “SET TIME” again to confirm. For example, the default heating time is 45 minutes, and displayed as “–45”.

CHANGE WAITING TIME SETTING

Hold “ SET TIME ” button for more than 5 seconds to adjust the waiting time. The maximum waiting time is 12 hours. Led screen blinks and display the waiting hours. Press “▲” to adjust hour value, press “▼” to adjust the minute value. If you wish to set 8 hours and 45 minutes waiting time, you need to set the hour value as “ H8 ” and minute value as “ – 45 ”. Press “ SET TIME ” again to confirm you setting.

DISPLAY AND LIGTH INDICATOR

In waiting mode, Led screen displays the hour (such as H10) and minute (such as – 45) information by turns. If the wait time is less than 1 hour, only minute information is displayed. Once the waiting time is up, system enters heating-up mode automatically. Led screen displays the current temperature, right and left side led lights indicate the remaining working time in the following manner: each light indicates a 6-minute interval and starting from the right side button light. For example: 2 bottom lights on the left and 5 lights on the right will be on for 38 minutes.

OTHER INFORMATION

The default setting temperature is 167℉ (75℃)， default waiting time is 0 and heating-up time is 45 minutes.

Temperature display range is 43－221℉ (6－105℃).

Temperature adjusting range is 158－194℉ (70－90℃).

Light switch：Press this button to turn on/off the light.

Fan switch：Press this button to turn on/off fan for ventilation.

HINT MESSAGE

1) **Temperature below 43℉ (6℃):** LED screen displays“－**L** ”.
2) **Temperature above 221℉ (105℃):** LED screen displays“－**H** ”, system could not heat up.
3) **Communication error ：** Communication error between panel and mainboard, LED screen displays“ **EE**”.
4) **Heating-up indicator “ ”:** The red indicator is on when system heats up.
5) **Heat preserving** “ ” **indicator:** Once reaching user-set temperature, system stop heating up, and enter heat preserving mode. The yellow indicator turns on.
6) **Temperature sensor error：** If the sensor is not proper connected or not function well, Led screen display “SE”.

CONNECTIONS OF THE SAUNA SYSTEM

Please refer to figure 2, 3, 4 and 5. Connect the neutral wire to the terminal labeled as "N" if you need the light and fan.

NOTICE：

⚠ **Warning ：** The sauna heater should not be used for other heating purpose.

⚠ **Notice：** The product is not suitable for weak and disabled people, unless they have been carefully supervised and take care of.

⚠ **Notice：** Children should be taken good care of for they safety.

⚠ **Notice：** Check the whole sauna room before turn on the control.

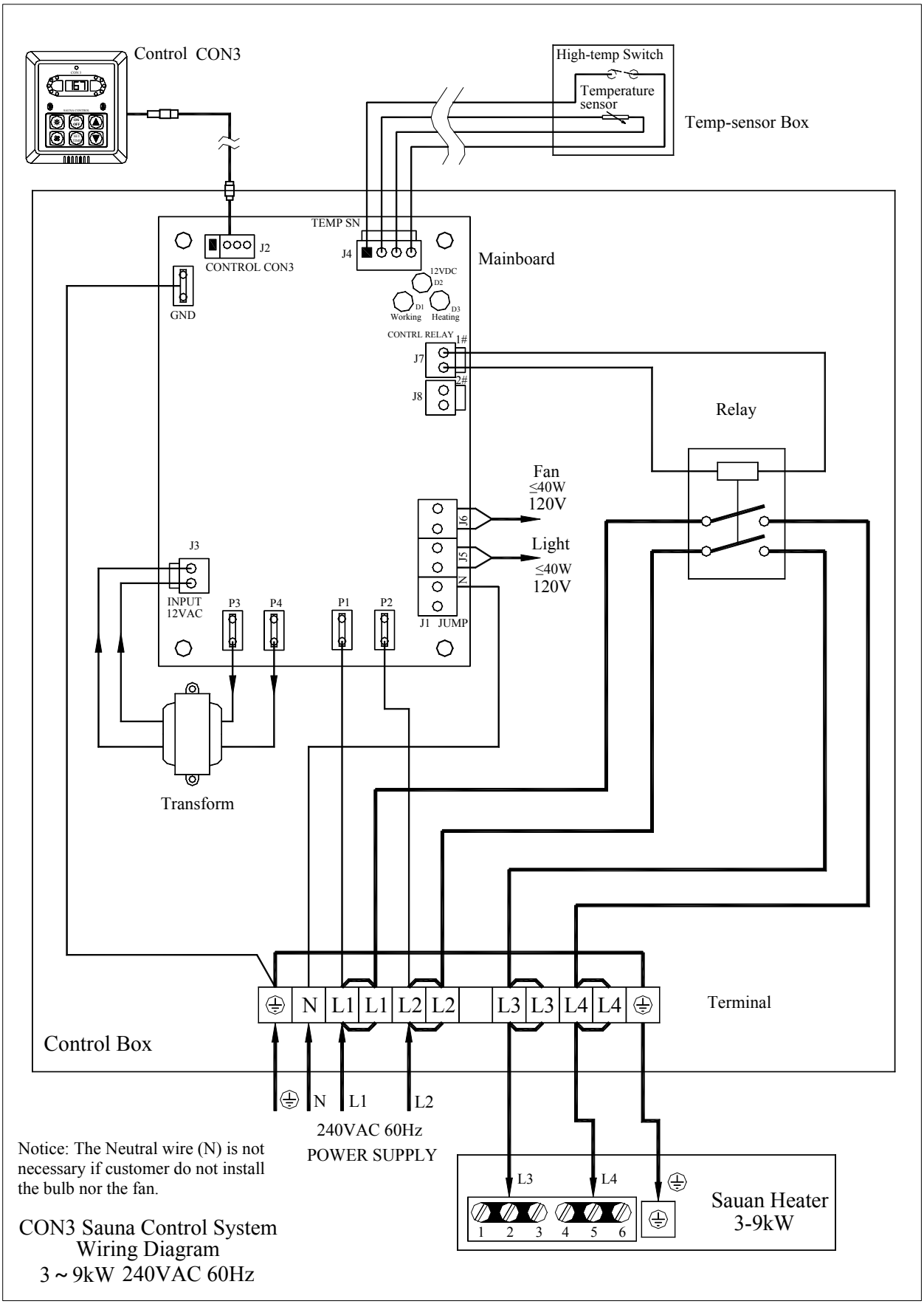
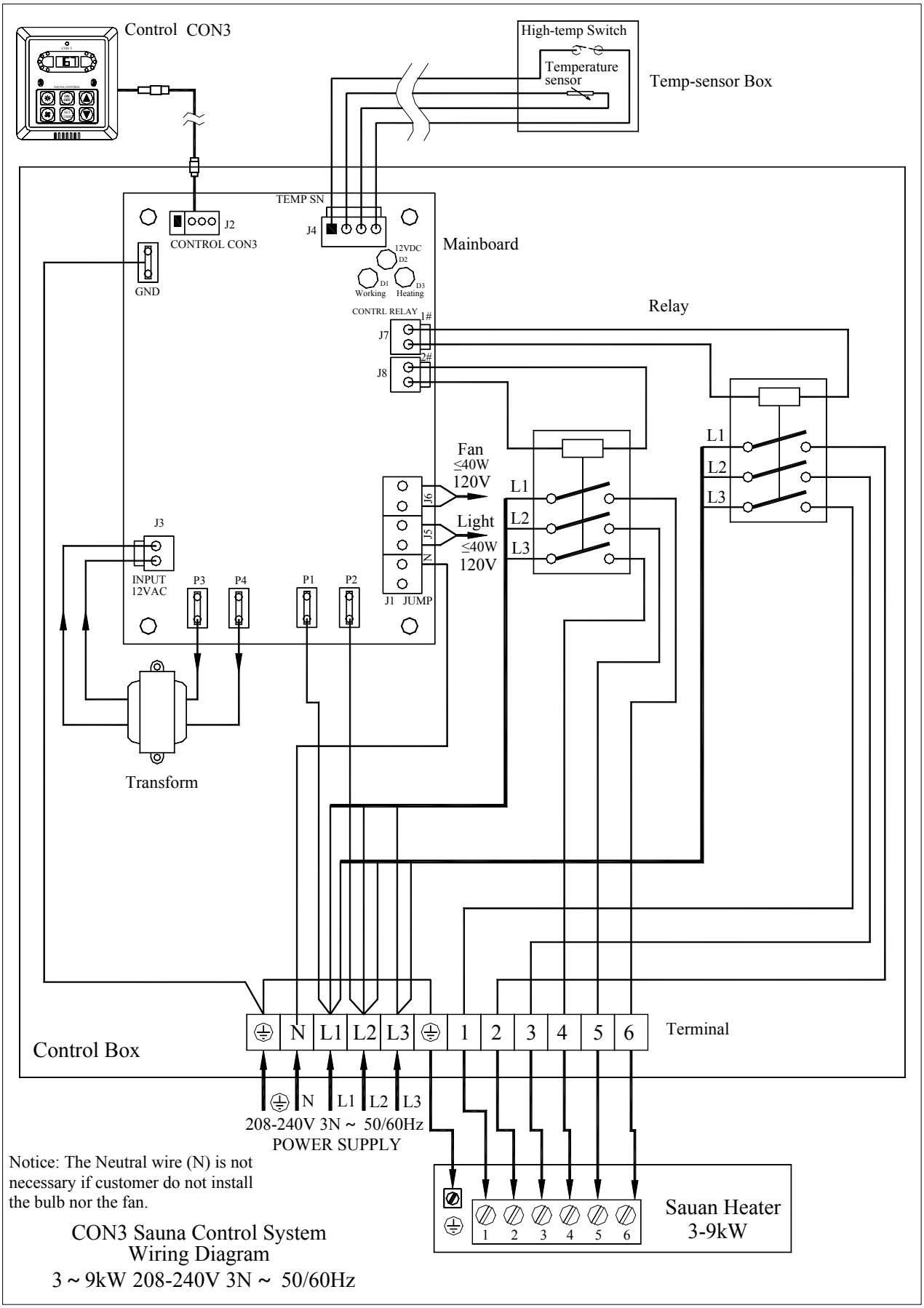

Control CON3
High-temp Switch
Temperature sensor
Temp-sensor Box
TEMP SN
J4
J2
CONTROL CON3
Mainboard
12VDC
D2
D1 Working
D3 Heating
GND
CONTRL RELAY
1#
J7
2#
J8
Relay
Fan
≤40W
120V
J6
J5
N
Light
≤40W
120V
J3
INPUT
12VAC
P3
P4
P1
P2
J1 JUMP
Transform
N
L1
L1
L2
L2
L3
L3
L4
L4
Terminal
Control Box
N
L1
L2
240VAC 60Hz
POWER SUPPLY
L3
L4
1 2 3 4 5 6
Sauan Heater
3-9kW
Notice: The Neutral wire (N) is not necessary if customer do not install the bulb nor the fan.
CON3 Sauna Control System
Wiring Diagram
3 ~ 9kW 240VAC 60Hz

Figure 2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J4
Mainboard
12VDC
D2
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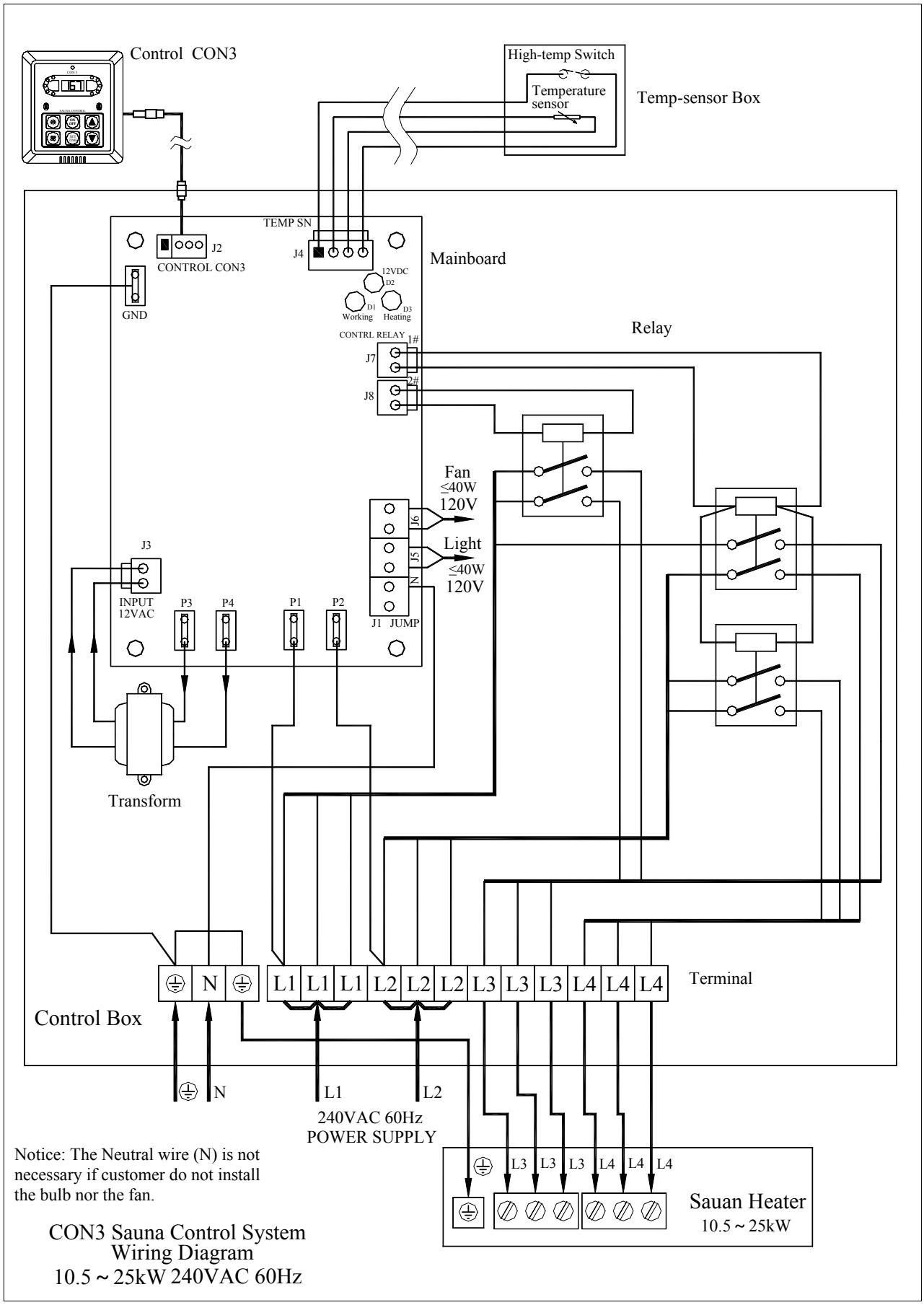
D3 Heating
GND
Relay
CONTRL RELAY
1#
J7
2#
J8
Fan ≤40W 120V
Light ≤40W 120V
L1
L2
L3
J6
J5
N
J3
INPUT 12VAC
P3
P4
P1
P2
J1 JUMP
Transform
Control Box
N
L1
L2
L3
1
2
3
4
5
6
Terminal
208-240V 3N ~ 50/60Hz
POWER SUPPLY
Notice: The Neutral wire (N) is not necessary if customer do not install the bulb nor the fan.
Sauan Heater 3-9kW
CON3 Sauna Control System Wiring Diagram
3 ~ 9kW 208-240V 3N ~ 50/60Hz

Figure 3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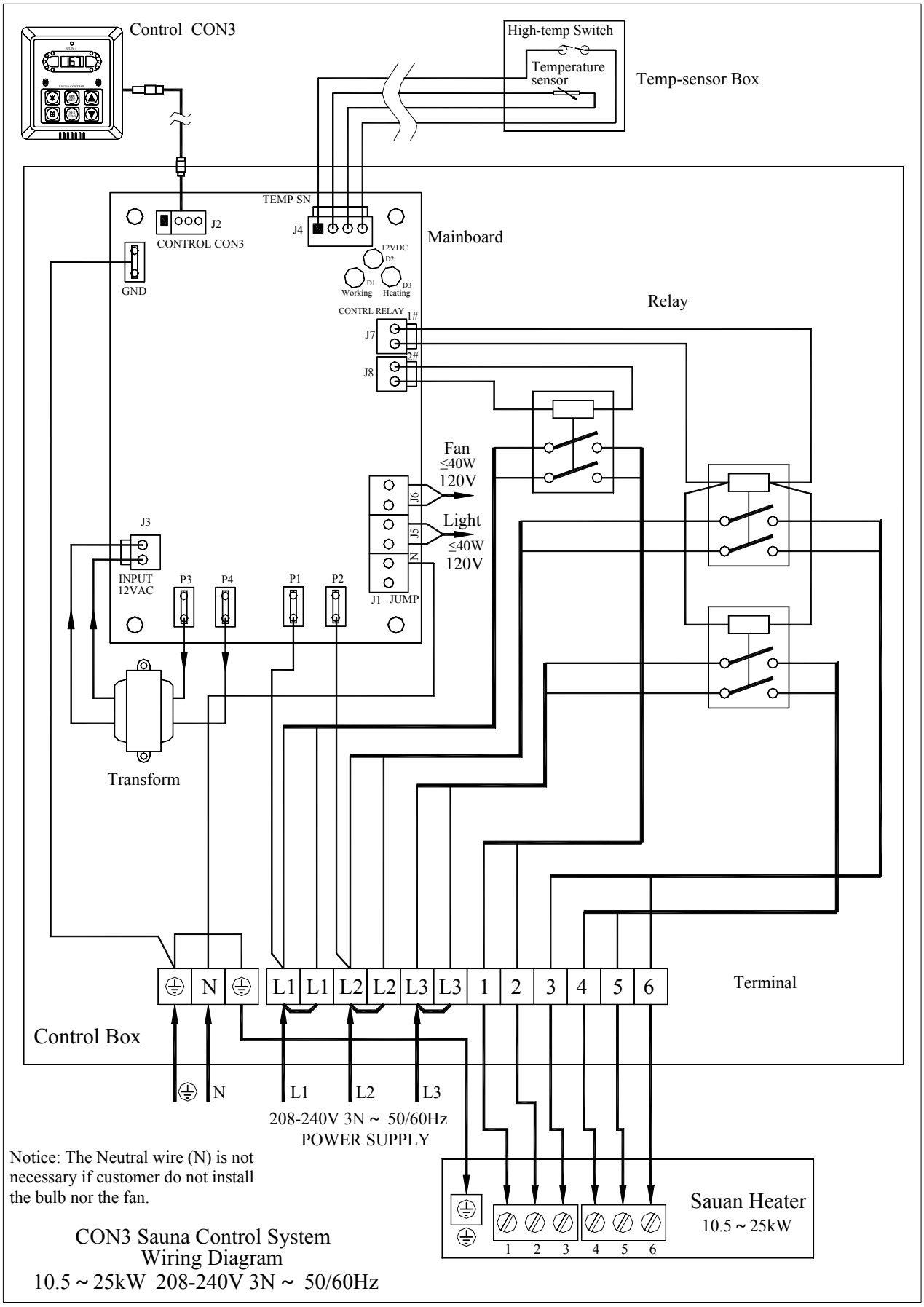
J3
INPUT
12VAC
P3
P4
P1
P2
J1 JUMP
Transform
N
L1 L1 L1 L2 L2 L2 L3 L3 L3 L4 L4 L4
Terminal
Control Box
N
L1
L2
240VAC 60Hz
POWER SUPPLY
L3 L3 L3 L4 L4 L4
Sauan Heater
10.5 ~ 25kW
Notice: The Neutral wire (N) is not necessary if customer do not install the bulb nor the fan.
CON3 Sauna Control System
Wiring Diagram
10.5 ~ 25kW 240VAC 60Hz

Figure 4


Control CON3
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Temperature sensor
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J4
Mainboard
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GND
Relay
CONTRL RELAY
1#
J7
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J8
Fan
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120V
J6
Light
≤40W
120V
J5
N
J3
INPUT
12VAC
P3
P4
P1
P2
J1 JUMP
Transform
N
L1
L1
L2
L2
L3
L3
1
2
3
4
5
6
Terminal
Control Box
N
L1
L2
L3
208-240V 3N ~ 50/60Hz
POWER SUPPLY
Notice: The Neutral wire (N) is not necessary if customer do not install the bulb nor the fan.
Sauan Heater
10.5 ~ 25kW
1 2 3 4 5 6
CON3 Sauna Control System
Wiring Diagram
10.5 ~ 25kW 208-240V 3N ~ 50/60Hz

Figure 5