

# CON4 digital display controller instruction

## I. Connect power (see diagram 1)

1. Sauna light switch which is used for controlling turn on and turn off the sauna light. When the sauna light indicator is lighting, sauna light remains state of on; contrarily, it remains off.
2. The heater ON/OFF key, which is used for controlling open and close of heater.

**Remark:** Each time open the heater, the controller automatically enter into A mode state, the operation time in heater show the last setting time.

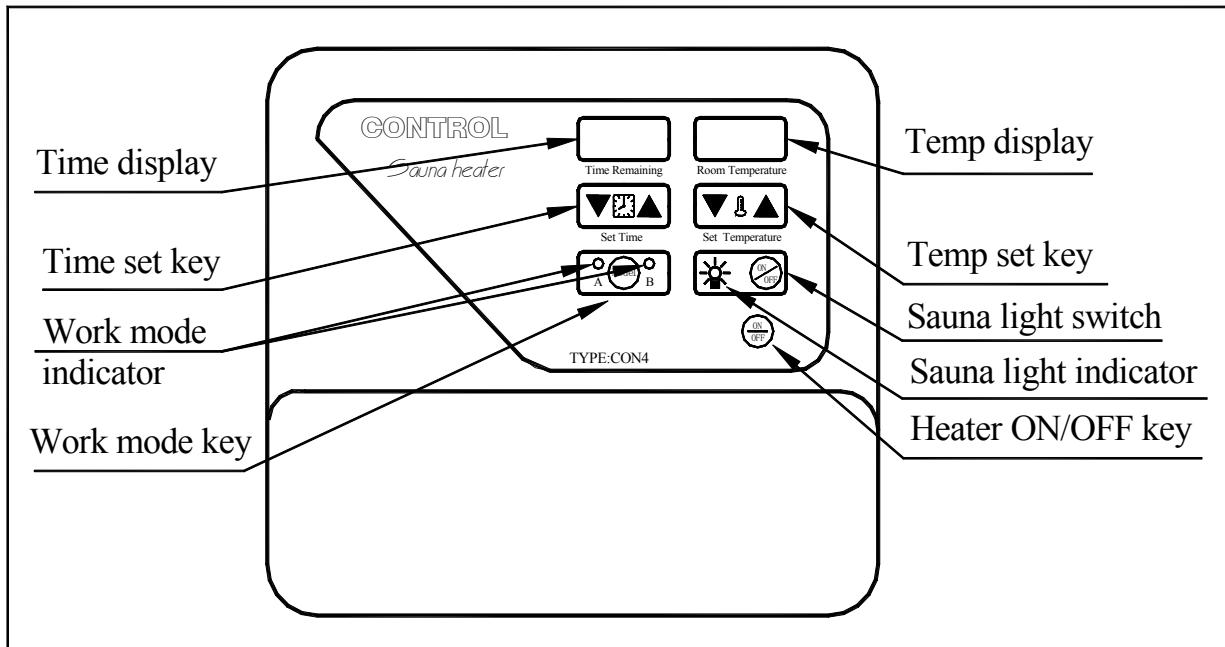


DIAGRAM 1 CON4 DIGITAL DISPLAY CONTROLLER

## II. Set (see diagram 1 )

### 1. Work mode :

**A work mode:** when indicator light “A” is on, it is work mode A, running time (Heater running) is four hours, maximum unworking time (Means the heater is not working) is eight hours. e. g. The time indicates 4:00 as a divided line, the heater’s running time is 4:00-0:00 ; unworking time is 12:00-4:00 and heater doesn’t work. If you don’t want to start the heater at once (delay 2 hours to automatically start heater). The time is set at 6:00.

**B work mode:** when indicator light “B” is on, the heater straightly enter into normal work state (no unworking time ), the operation time can last 12 hours.

**Remark :**

- 1) The time of setting about work mode A and B are all 0:30 ~12:00.
- 2) Unworking time of work mode A can’t below work time 4:00, otherwise it don’t allow presetting time.
- 3) The time is indicated count down.

2. **Set time key:** Press the set time key to regulate time (press upward key“▲” or downward key“▼”), three seconds after adjusting time, it goes into countdown from setting time and it will automatically turn off when screen show 0:00, default time is 2:00.

**3. Set temperature key:** Press the set-temperature key (To press upward “▲”or downward “▼” key regulate temperature), temperature display screen show set-temperature; after temperature three seconds, temperature display screen show present temperature, the set-temperature is filed. The heater stop heating when temperature in sauna room is above the set-temperature; on the other hand, the heater begin heating. range of set-temperature is 40-105°C (104-221°F), default temperature is 75°C (167°F).

**Remark:** The above set has function of remembering the last set number as long as out-electric-power don't power on.

### **III. The connection of control wires (see diagram 5-8).**

**Remark:** Temperature display screen indicate “--L”, which means temperature sensor not connect well (or circuit break), or the temperature is below -10 °C (14°F), when there is “--H” indicating on screen, it means short circuit of temperature sensor, or the temperature is higher than 110°C (230°F). sauna heater can't heat either in both conditions, please check temperature sensor connection or temperature of sauna room, then it can work when recover normal.

### **IV. Sensor Unit (refer to diagram 2).**

The recommended location of sensor unit is shown in diagram4. 3 meter (10 feet) length of heat-resistant cable provided; this may be extended outside the sauna room with common low voltage cable. Connection and installation for sensor are shown in diagram 2, 3 and 4.

### **V. Attention.**

- This appliance is not intended for use by person (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- Check sauna room before restart the timer.

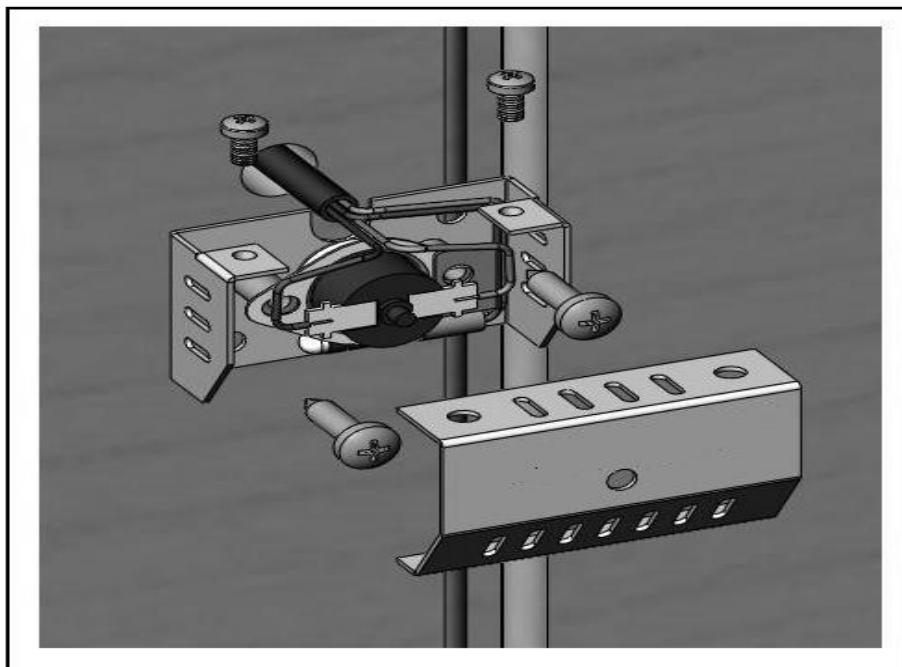


DIAGRAM 2      THERMOSTAT SENSOR

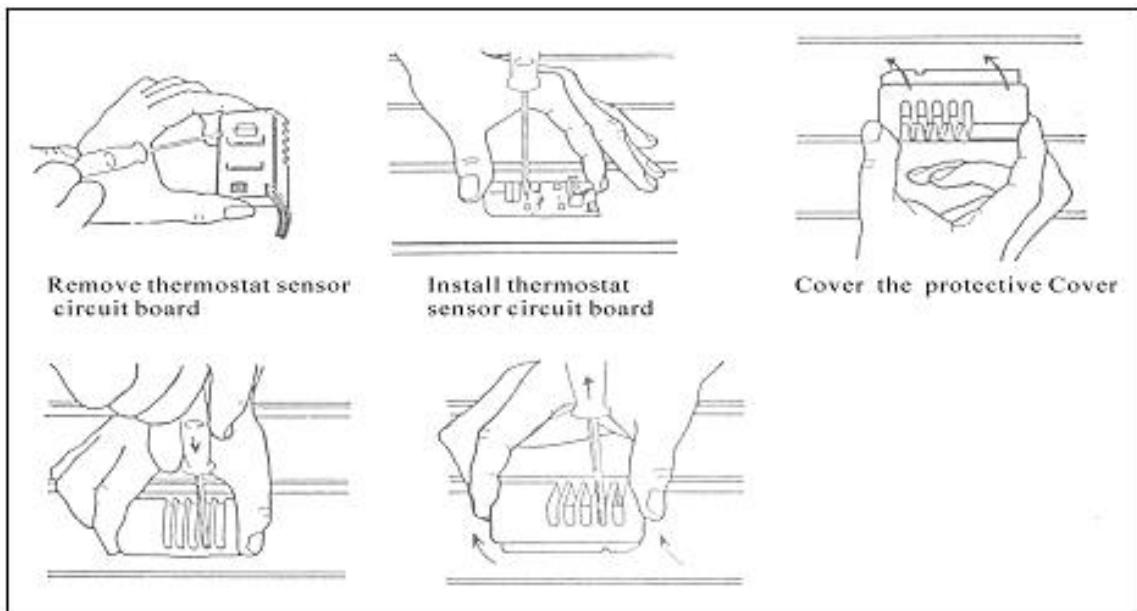


DIAGRAM 3      INSTALLATION THERMOSTAT SENSOR

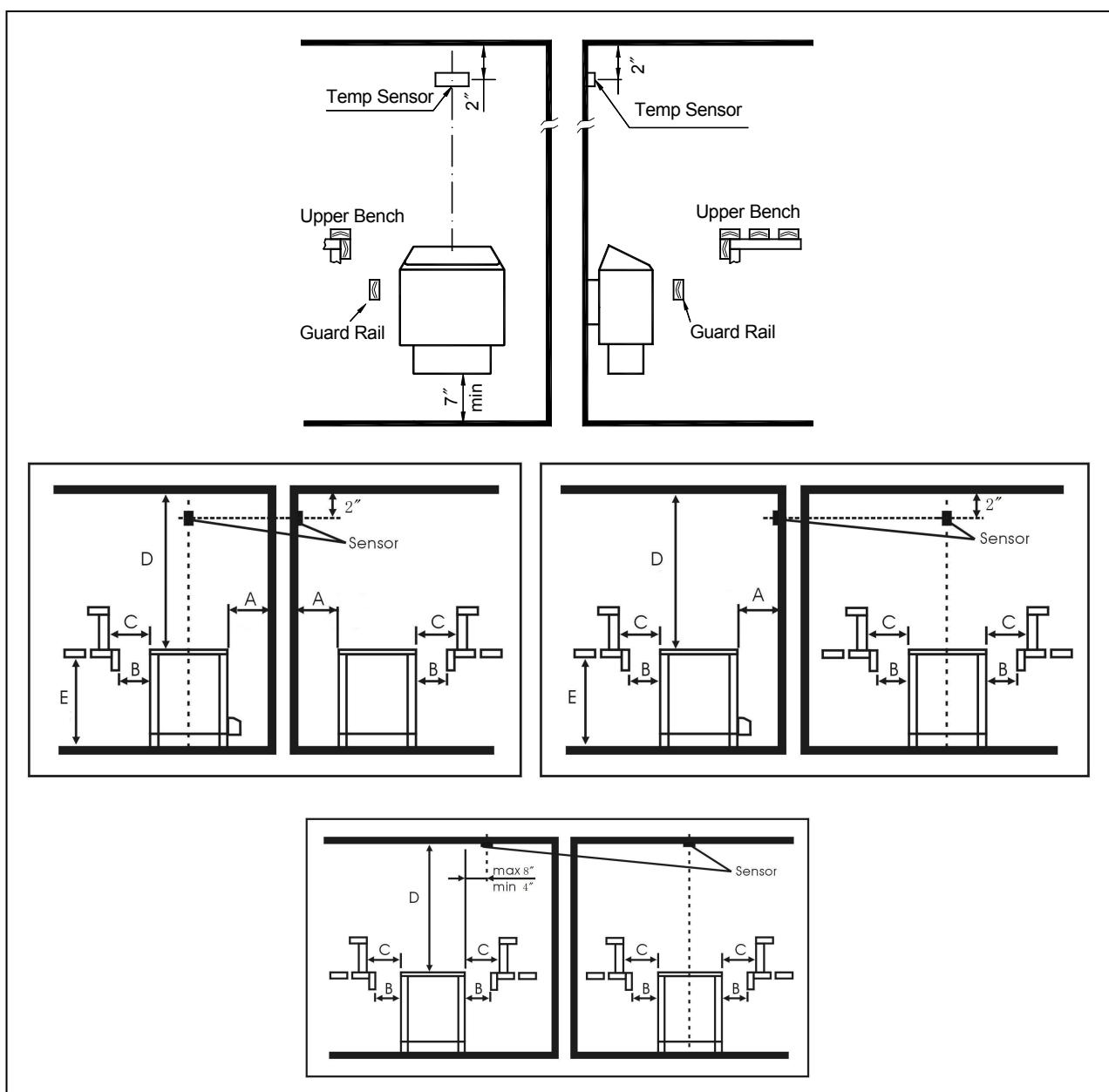
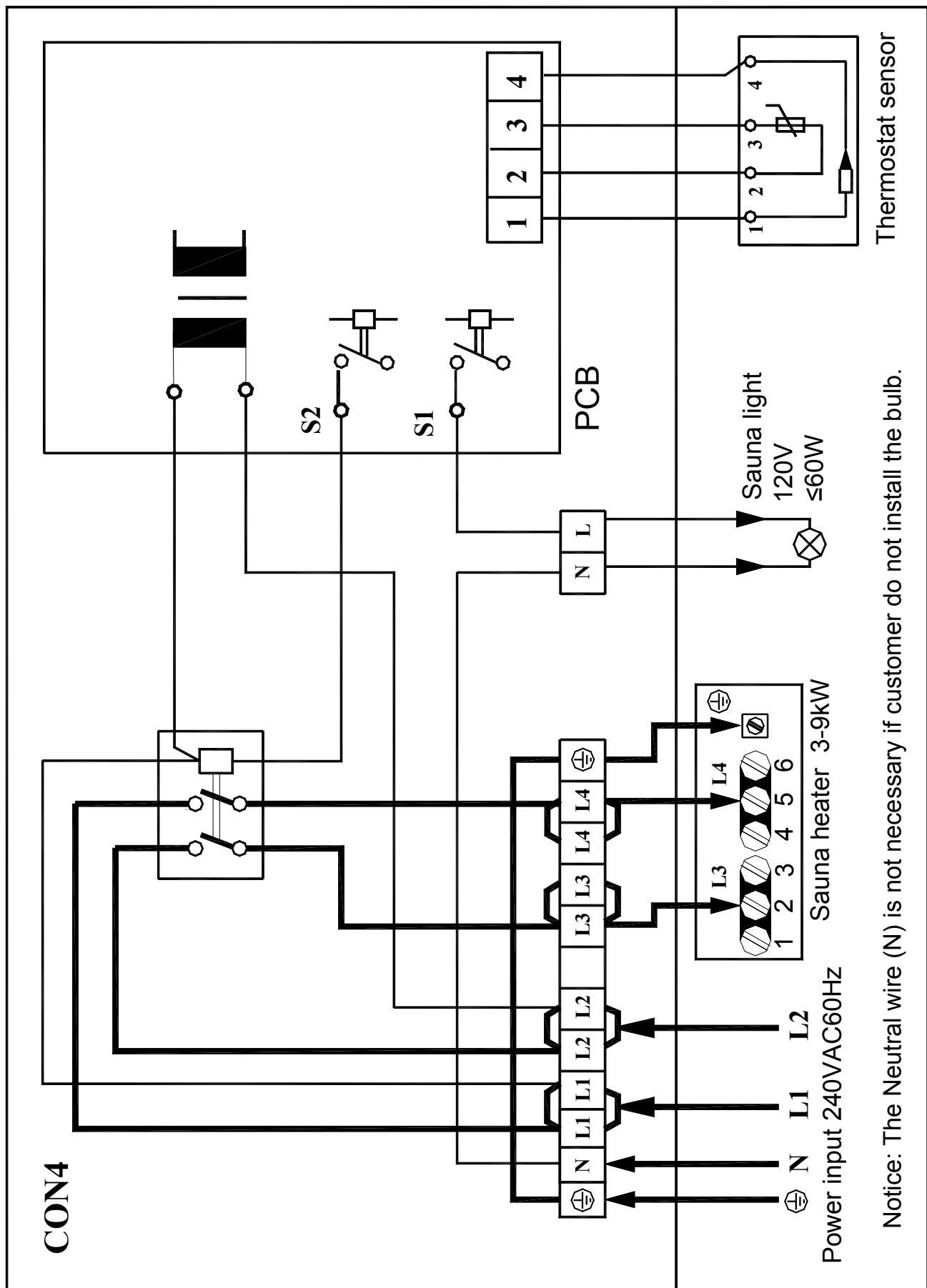


DIAGRAM 4      THERMOSTAT SENSOR INSTALLATION LOCATION



#### DIAGRAM 5 CONTROL CIRCUIT DIAGRAM (3~9kW 240VAC 60Hz)

CON4

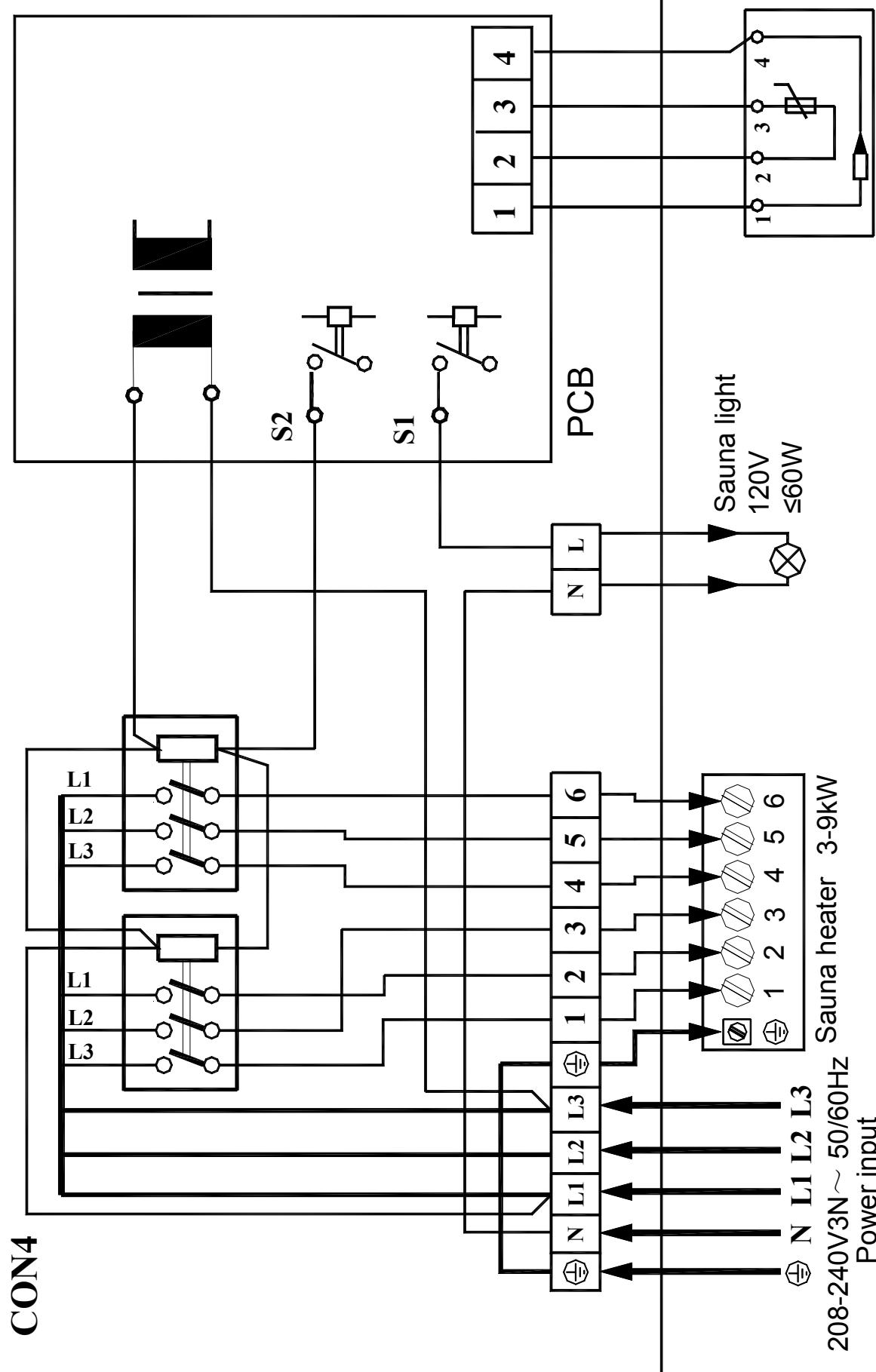


DIAGRAM 6 CONTROL CIRCUIT DIAGRAM (3~9kW 208-240V 3N~ 50/60Hz)

Notice: The Neutral wire (N) is not necessary if customer do not install the bulb.

Thermostat sensor

208-240V3N~ 50/60Hz Sauna heater 3-9kW  
Power input

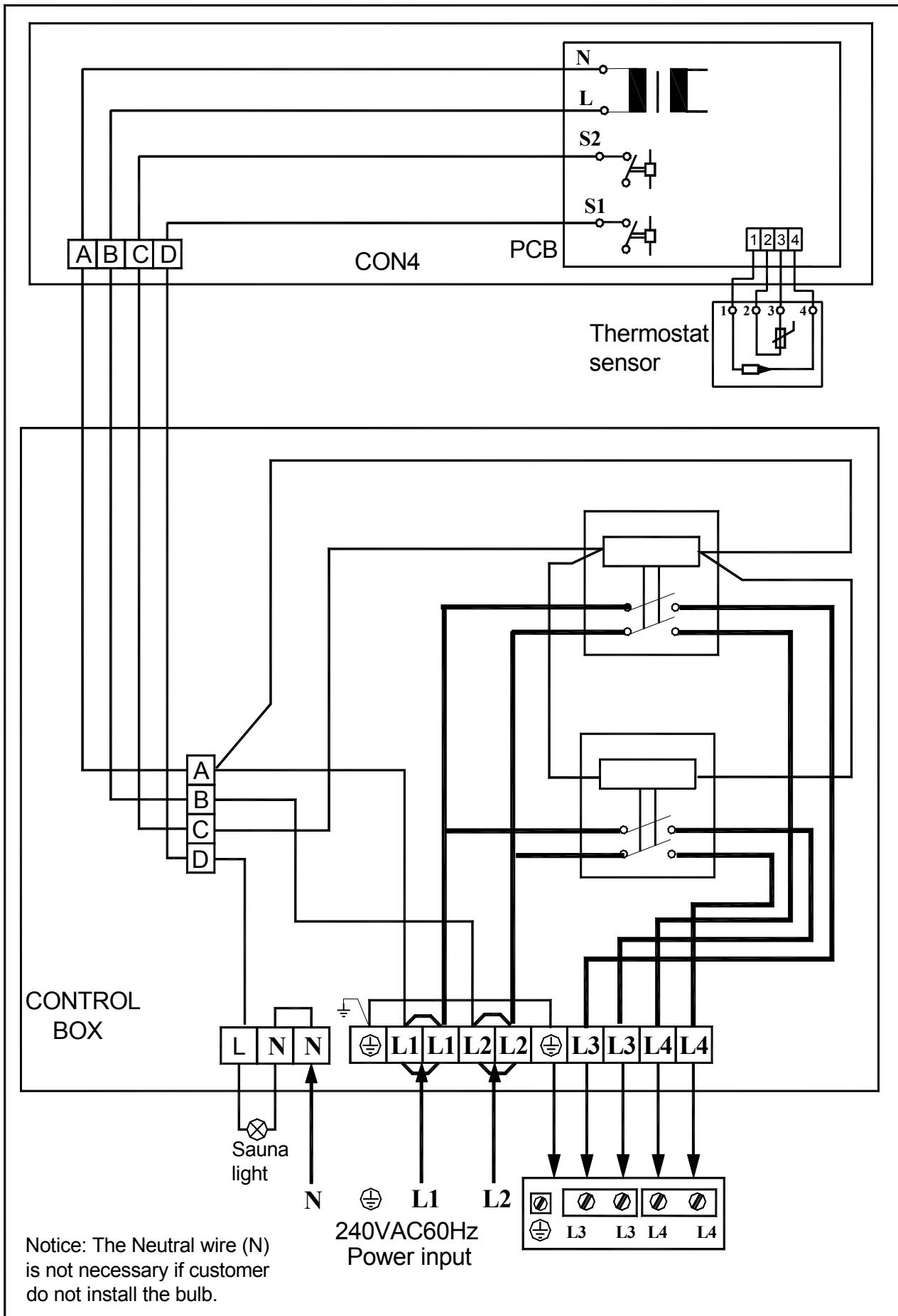


DIAGRAM 7 CONTROL CIRCUIT DIAGRAM (10.5~15kW 240VAC 60Hz)

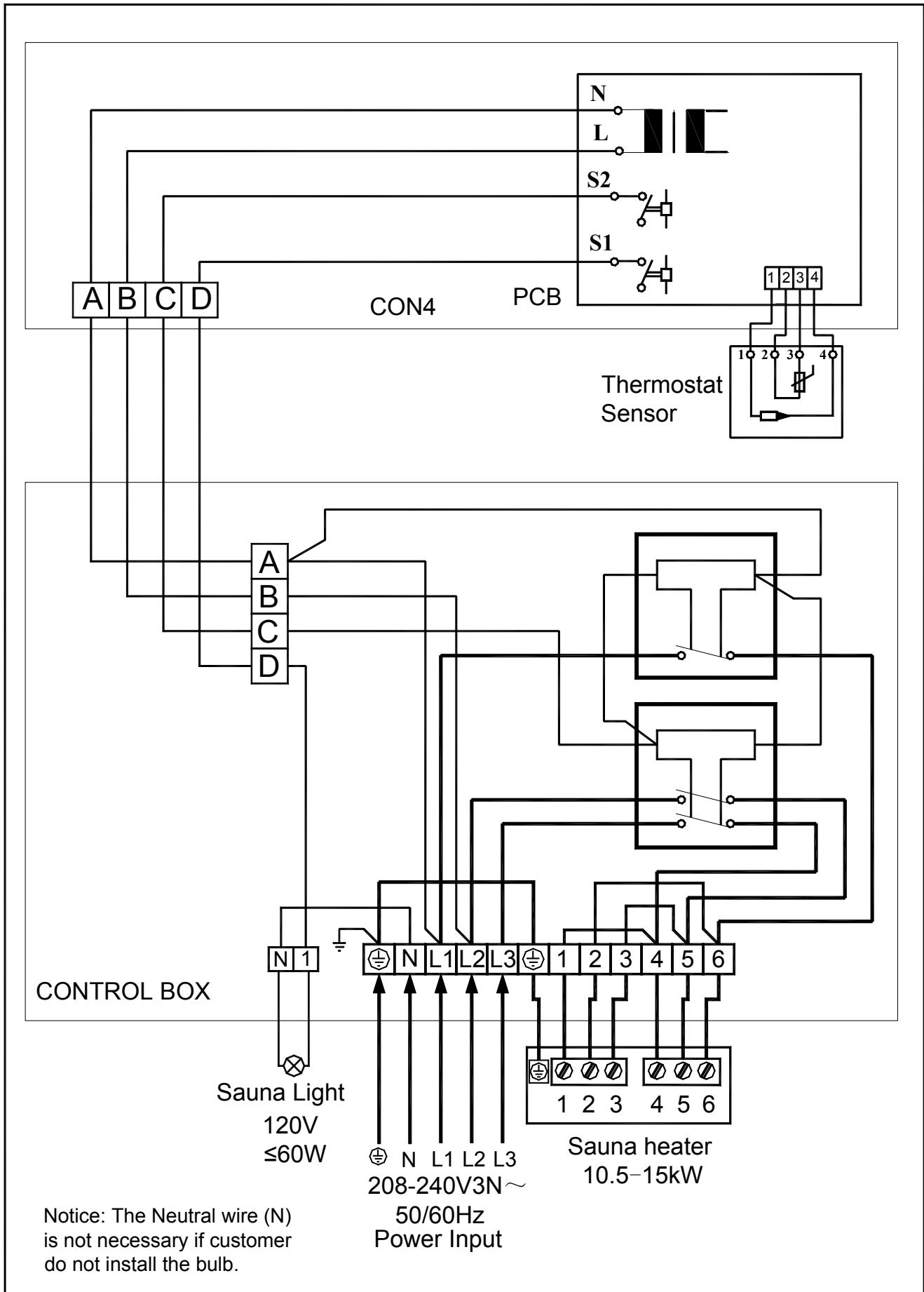


DIAGRAM 8 CONTROL CIRCUIT DIAGRAM (10.5~15kW 208-240V 3N~ 50/60Hz)