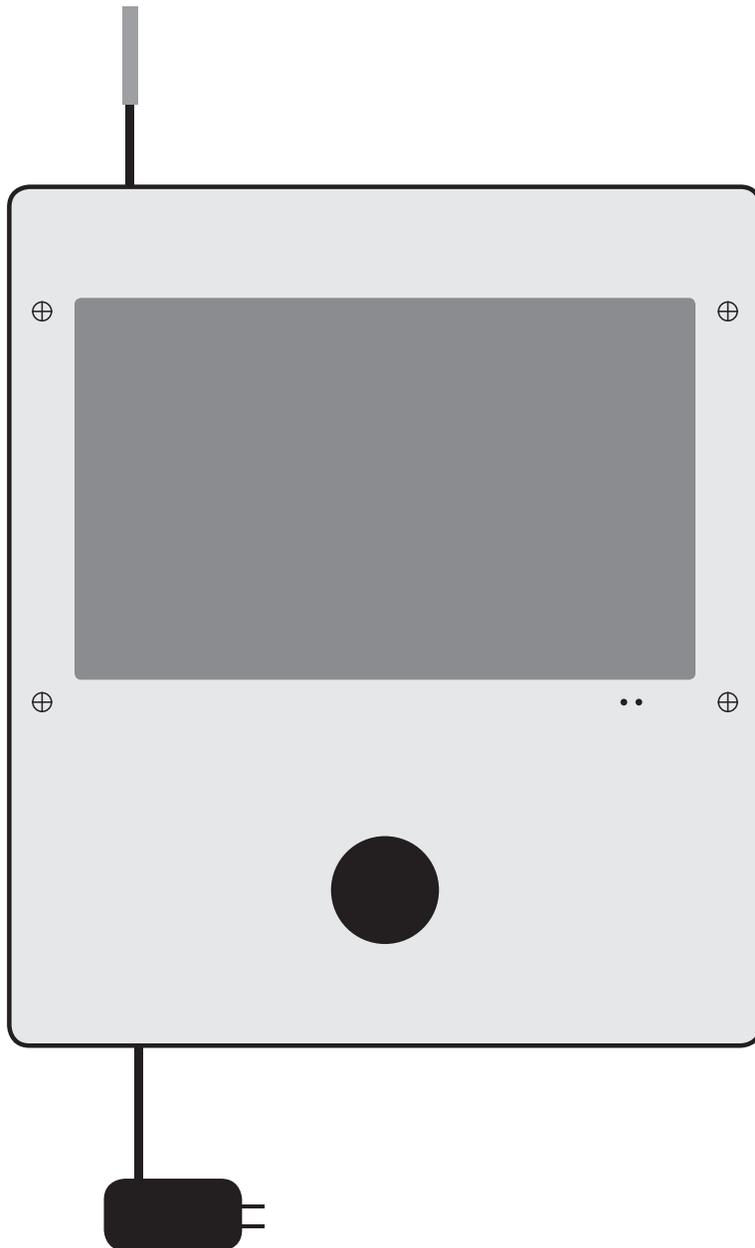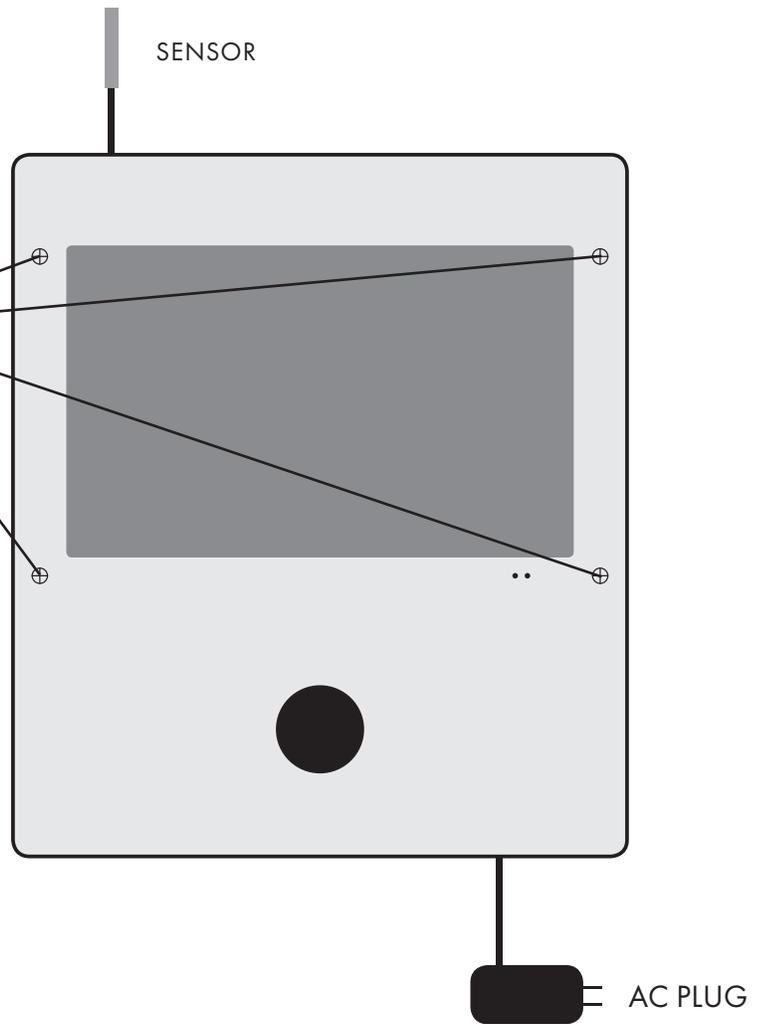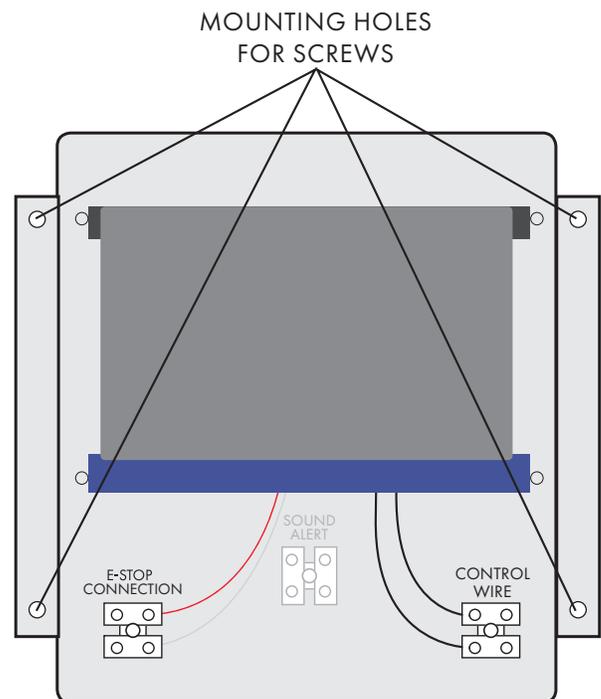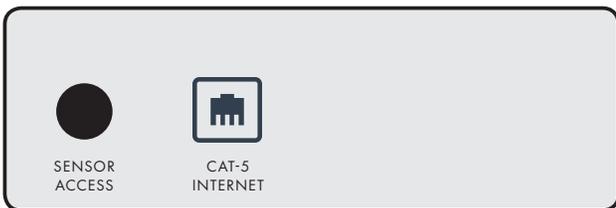# SAUNA ALARMS

Installation instructions - V3

SENSOR

1. Remove screws on faceplate to access internal connections.

2. **The power for this unit is run using a standard plug-in. You will need a standard outlet to provide power to the unit. If no outlet is available the AC can be removed and then hardwired. This can only be done by a licensed electrician.**
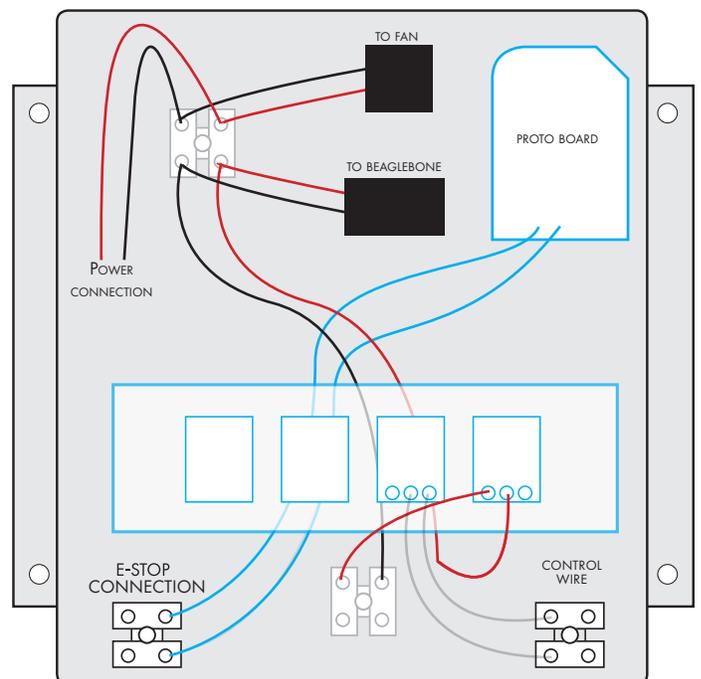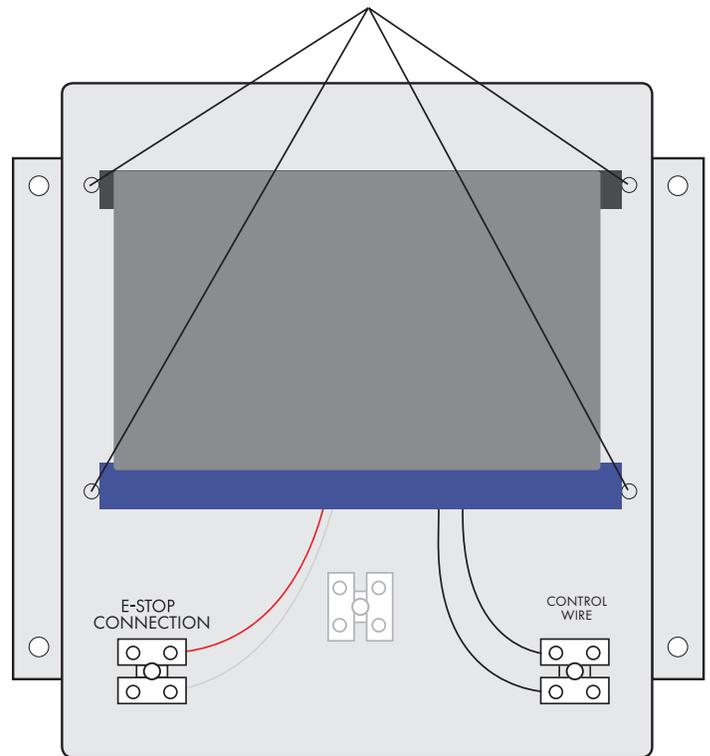
AC PLUG

MOUNTING HOLES
FOR SCREWS

TOP SIDE OF SAUNA ALARM

SENSOR
ACCESS

CAT-5
INTERNET

SOUND
ALERT

E-STOP
CONNECTION

CONTROL
WIRE

3. This alarm is powered by 5 volts. Higher voltage will destroy the electrical components in the alarm.

The following steps can only be performed by a licensed electrician.

4. Start by removing the screws holding the screen in place to access the internal connections.

5. Detach white proto board and black beaglebone from the back of the screen.

6. Detach AC adapter from power terminal and rewire with correct power gauge wire. Be sure to reconnect the fan to the terminal.

7. Reattach proto board and black beaglebone to the screen. Be careful to not bend the connecting pins as you do this.

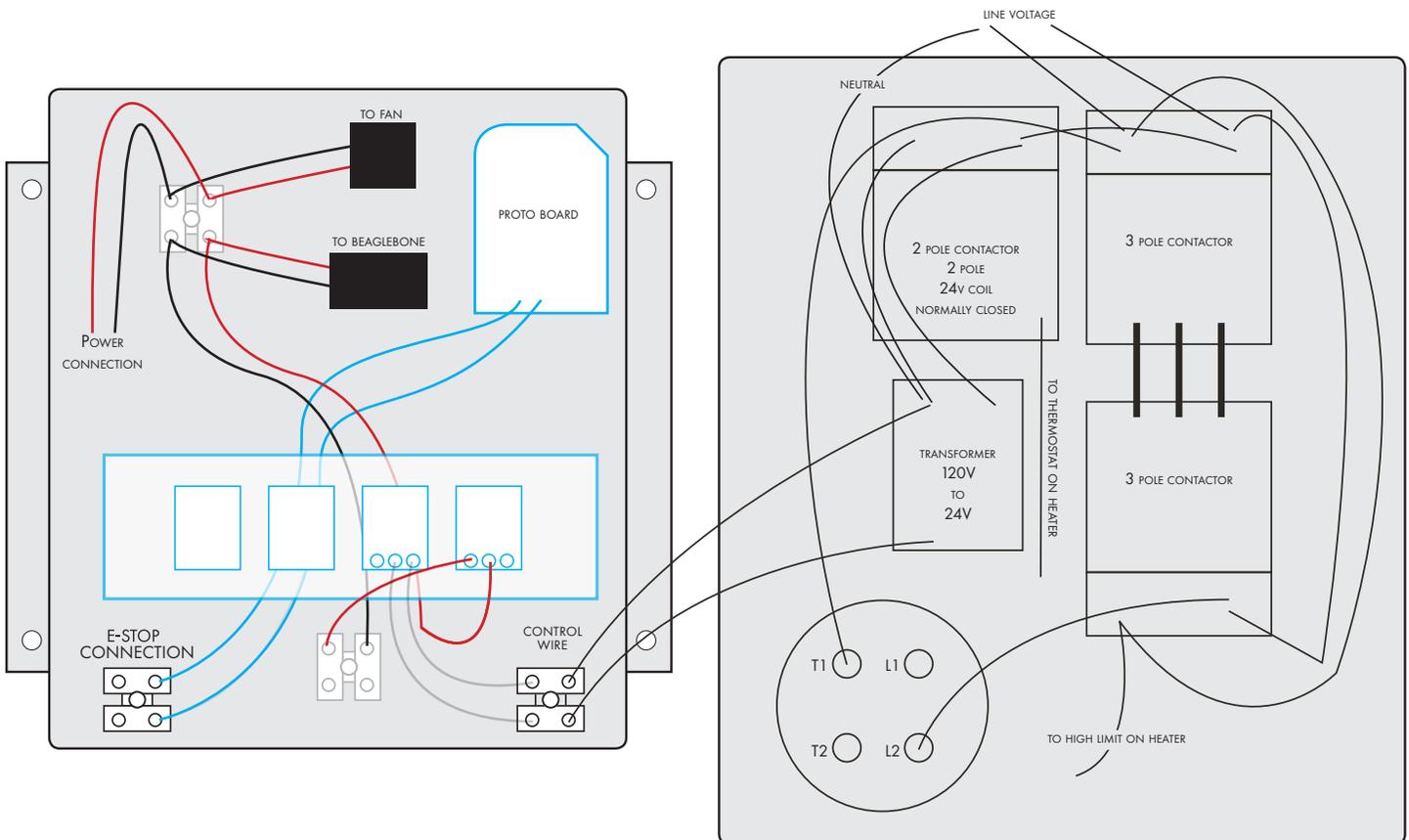8. Reattach mounting screws to the screen.

SCREWS HOLDING SCREEN IN PLACE

E-STOP CONNECTION

CONTROL WIRE

TO FAN

PROTO BOARD

TO BEAGLEBONE

POWER CONNECTION

E-STOP CONNECTION

CONTROL WIRE

TRANSFORM POWER TO 24V
FROM THE TIMER.

Do not ground to the alarm housing.
This will cause the alarm to malfunction.
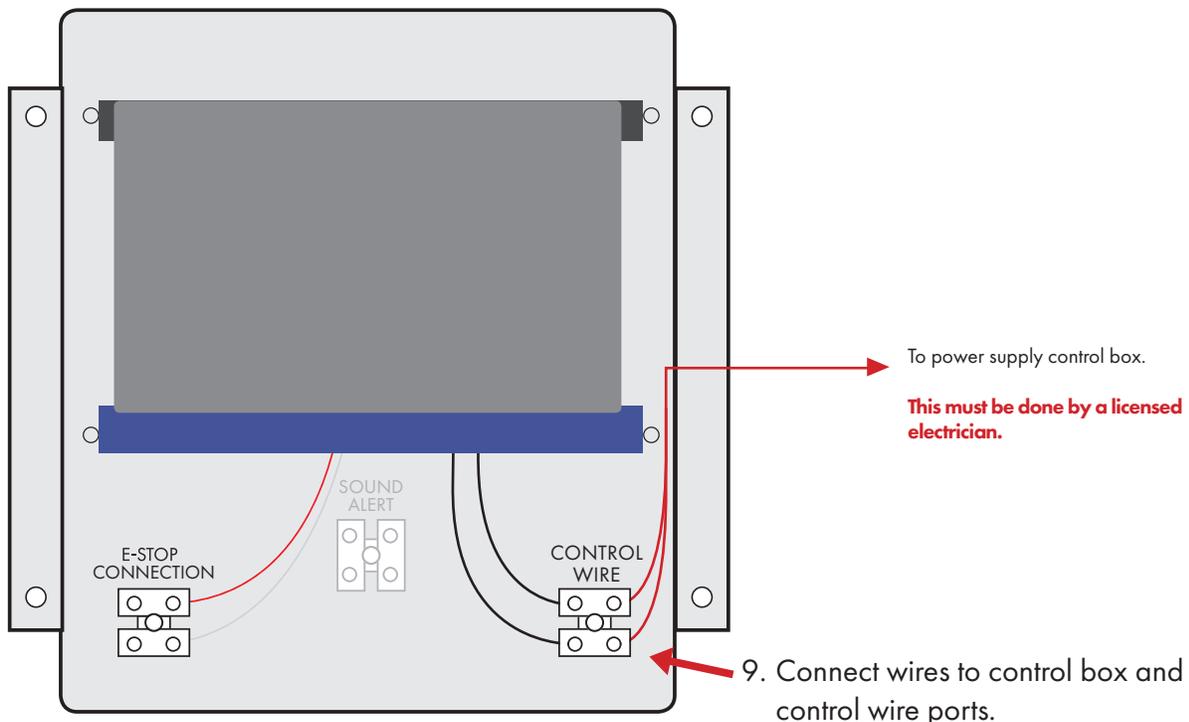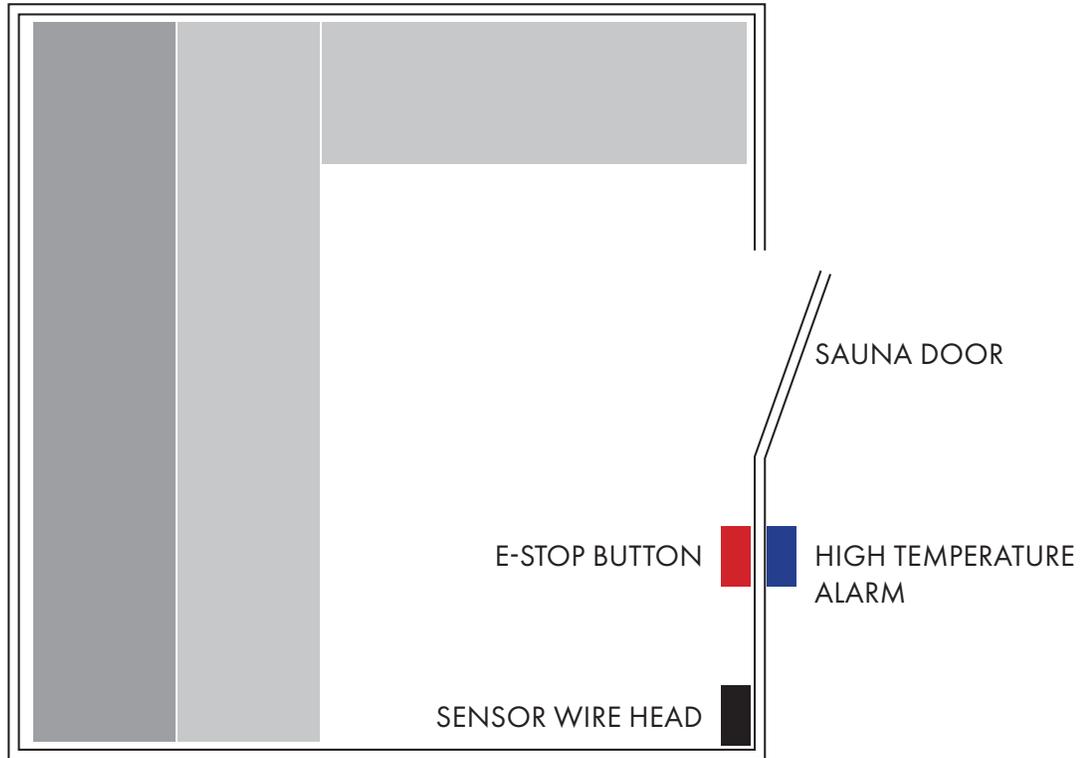*The power from the timer switch MUST BE*
TRANSFORMED DOWN TO 24V.

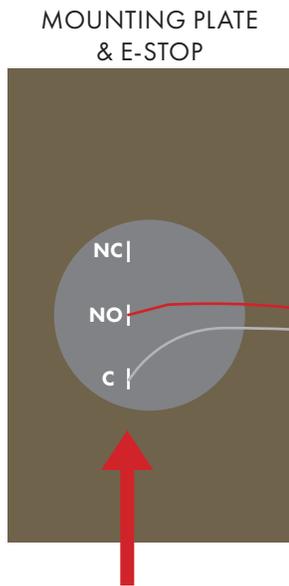**Contactor:**
2 pole
24V Coil
Normally Closed

Transformer:
1-Phase,
Primary/Secondary:
120V - 24V,
40 VA,
Signaling Transformer.

Wire:
Shielded 18-2
250V rated

LINE VOLTAGE

NEUTRAL

TO FAN

PROTO BOARD

TO BEAGLEBONE

POWER
CONNECTION

2 POLE CONTACTOR
2 POLE
24V COIL
NORMALLY CLOSED

3 POLE CONTACTOR

TO THERMOSTAT ON HEATER

TRANSFORMER
120V
TO
24V

3 POLE CONTACTOR

E-STOP
CONNECTION

CONTROL
WIRE

T1   L1

T2   L2

TO HIGH LIMIT ON HEATER

SAUNA ROOM - TOP VIEW

SAUNA DOOR

E-STOP BUTTON

HIGH TEMPERATURE ALARM

SENSOR WIRE HEAD

To power supply control box.

This must be done by a licensed electrician.

SOUND ALERT

E-STOP CONNECTION

CONTROL WIRE

9. Connect wires to control box and control wire ports.

MOUNTING PLATE
& E-STOP

NC

NO

C

SOUND
ALERT

E-STOP
CONNECTION
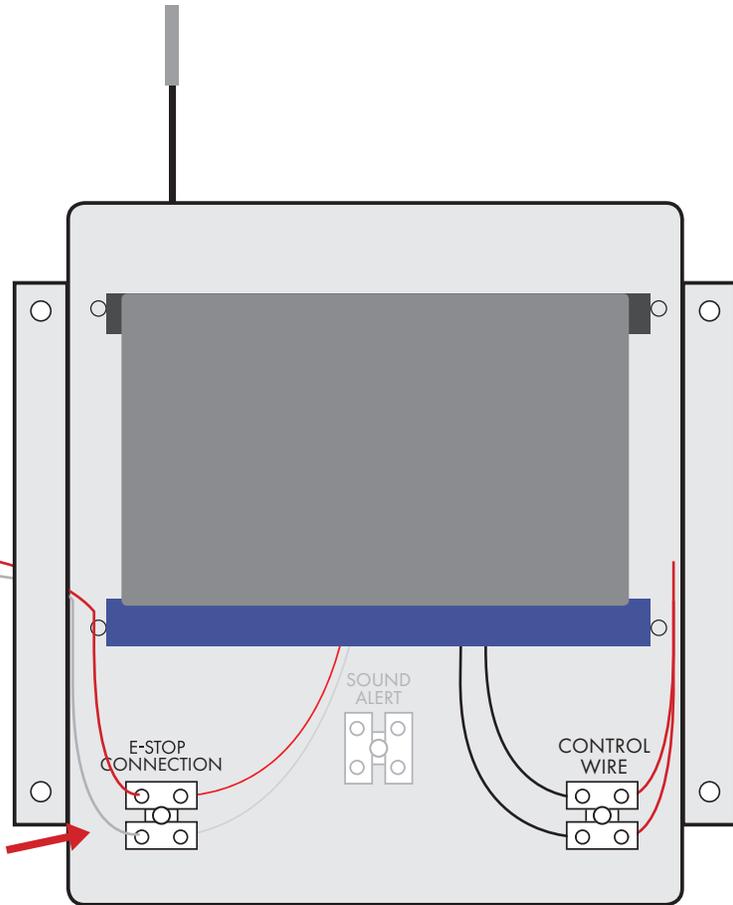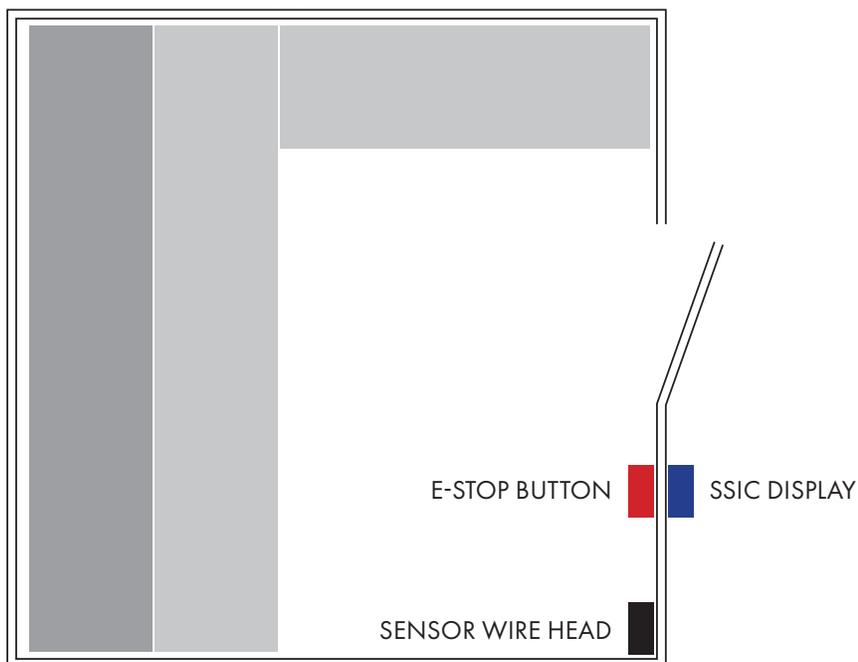
CONTROL
WIRE

10. Connect wires to underside of E-Stop and connection wire ports. Connect red wire to NO and white wire to C.

ROOM - TOP VIEW

E-STOP BUTTON

SSIC DISPLAY

SENSOR WIRE HEAD
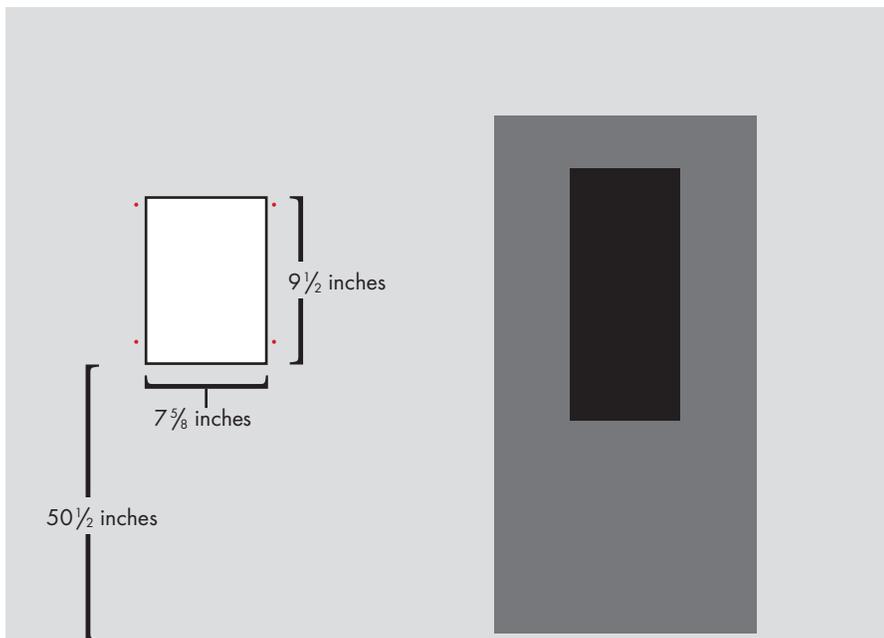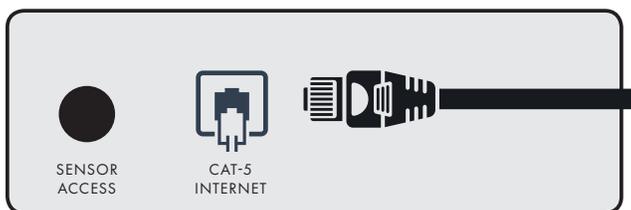
11. Install E-Stop inside sauna at a 34 inch height for ADA compliance.

12. SSIC Display should be installed between 48 and 60 inches high, directly opposite of the E-Stop.

13. Sensor Wire should be placed at 84 inches high in the upper corner from where the SSIC Display is installed.
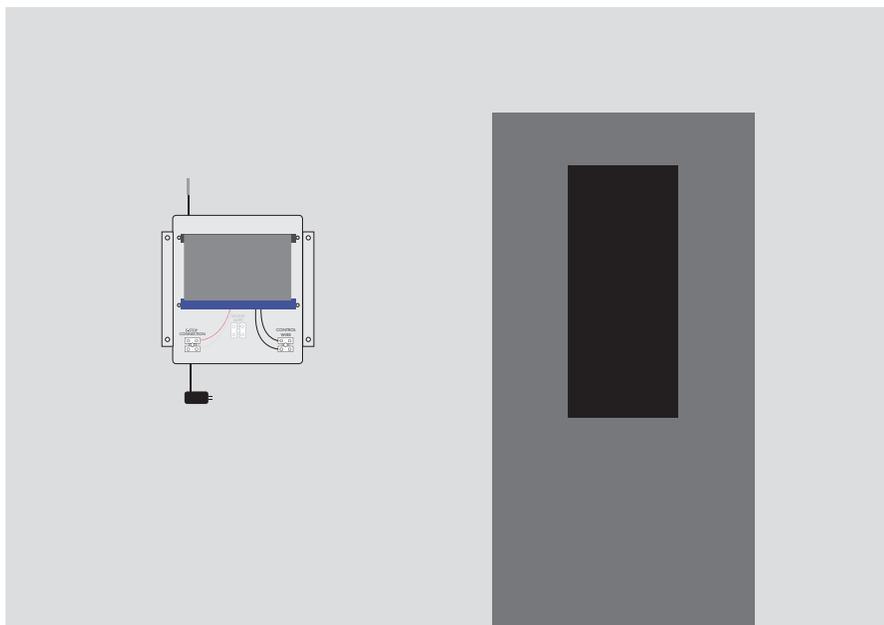
SAUNA WALL

9 ½ inches

7 ⅝ inches

50 ½ inches

14. To mount panel, cut a rectangular hole into sauna wall that is **7 ⅝ X 9 ½ inches**. he recommended base height is 50 ½ inches.

15. Drill pilot holes for sauna alarm box.

16. Use wall anchors to support sauna alarm on wall.

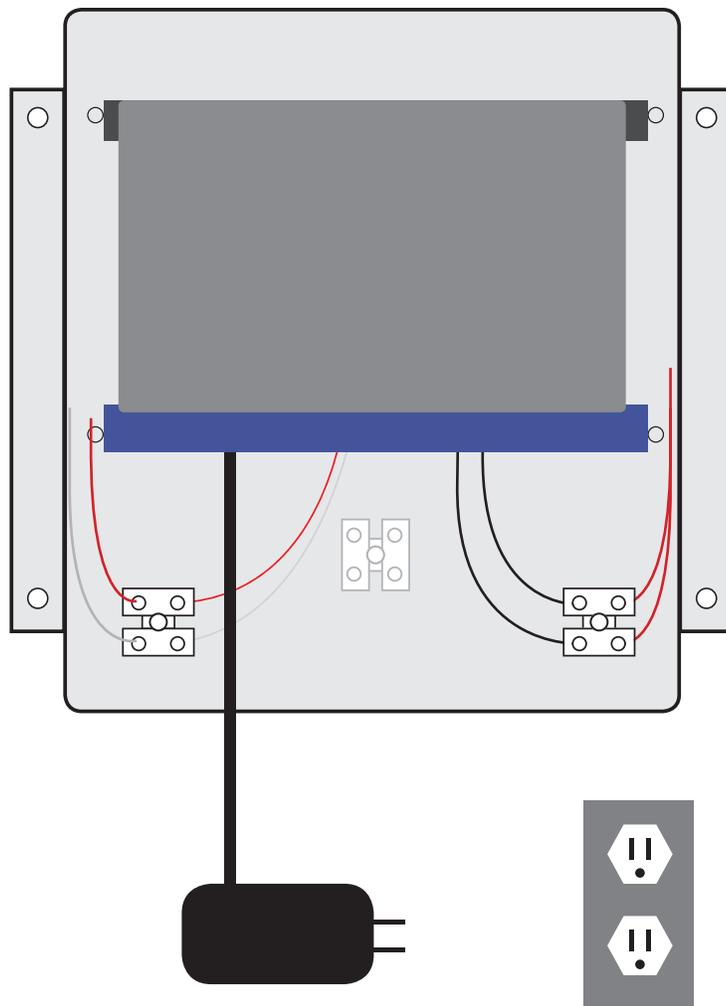TOP SIDE OF SAUNA ALARM

SENSOR ACCESS

CAT-5 INTERNET

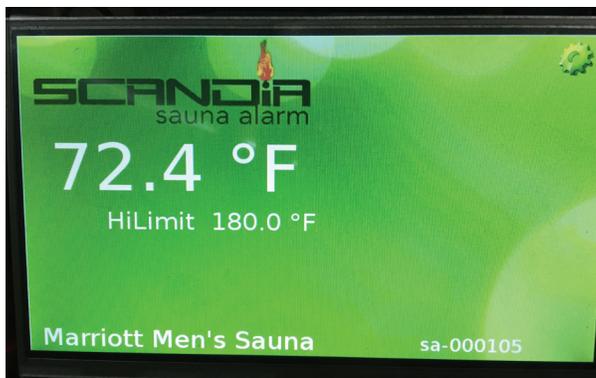17. Before mounting panel, connect Internet CAT-5 cable to box.

18. Align mounting holes with pilot holes and screw in heavy duty wall screws.

19. Sensor will be placed in sauna and the cord must be run up inside of the wall.

20. AC plug is run outside of wall.

21. Plug Ad adapter into wall.

CORRECT POWERED UP SCREEN

SCANDIA
sauna alarm
72.4 °F
HiLimit 180.0 °F

Marriott Men's Sauna   sa-000105

22. Wait for screen to power on.

23. Once the unit is powered and connected correctly remove screen protector and reattach front cover with provided screws.

24. Congratulations! Installation complete.