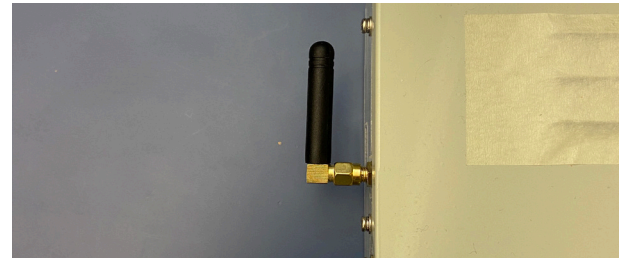


# Sunlighten mPulse Power Box V7 Removal and Installation



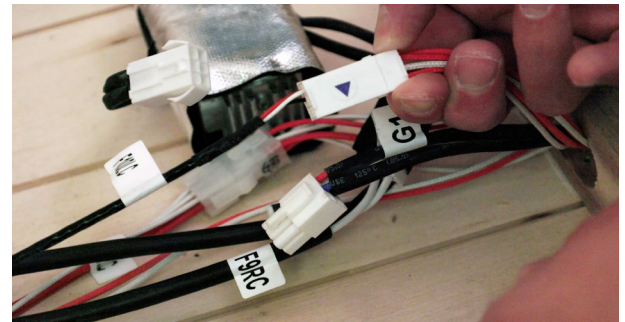
Thank you for choosing Sunlighten! Below are the steps for removal of your mPulse V7 power box for return and/or reprogramming. You will know that you have a V7 if there is an antenna for the Wi-Fi on the left-hand side.



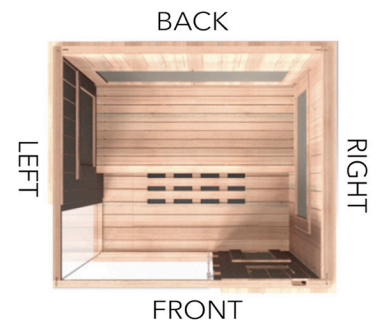
## Labeling

Wiring connections are labeled with stickers of shapes and colors to help you identify them. In the instructions below, the shape will be named with its corresponding color:

- **RED** shapes are **power feeds**
- **BLUE** shapes are sensors or **NTC (Negative Temperature Coefficient) feeds**
- **GREEN** shapes are **near infrared (NIR) feeds**



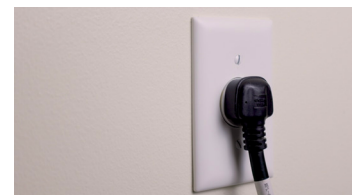
WALL	SHAPE
LEFT	△
BACK	□
RIGHT	⬠
FRONT	⬡
In Floor	○



Each wall is assigned a different shape. Walls are labeled from orientation when facing the back wall inside the sauna. In the instructions below, the power line (**TRIANGLE**), sensor line (**TRIANGLE**) and NIR (**TRIANGLE**) will be highlighted with their corresponding color.

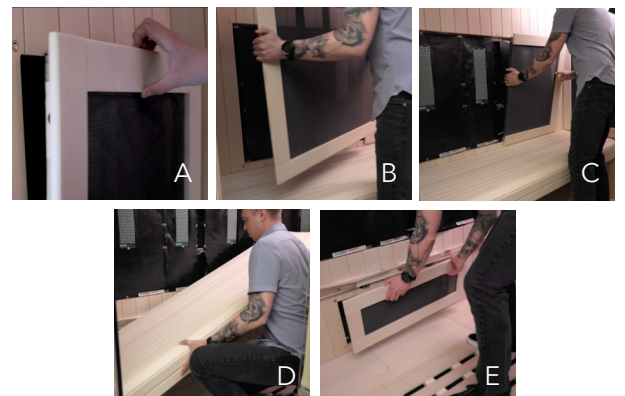
## Step 1

Unplug the unit from the power source or flip the breaker for the dedicated circuit to the sauna.



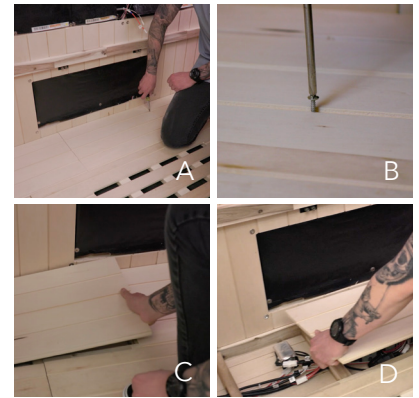
## Step 2

OPTIONAL: To better access the power box area within the sauna, remove the bench. What follows can be done without removing the bench, but it is more efficient and comfortable to do so with the added space. To remove the bench, unmount the heater frames from the surrounding walls. The bench will lift straight up from the bench supports mounted to the walls (For Discover and Empower cabins, you only need to remove the back wall bench sections).



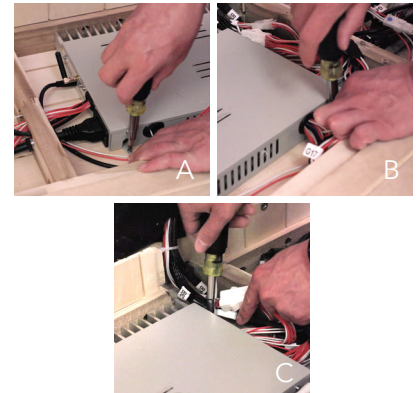
### Step 3

Unscrew the power box covers located on the floor of the sauna, adjacent to the back wall. The screws will be located in the grooves between the floorboards. You will see the sections of the power box covers with a bisecting cut perpendicular to the wood slats. Remove all screws for all sections of the power box covers.



### Step 4

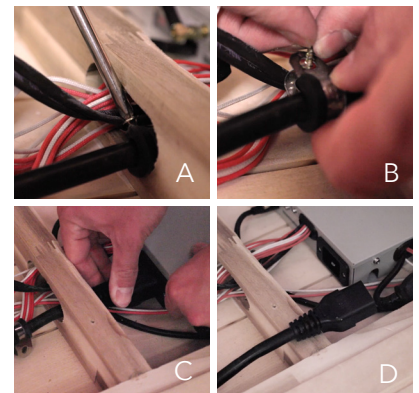
Once exposed, remove three of the phillips screws anchoring the box to the ground. Two on the long front edge and one on the right edge close to the back wall (as you are facing the back wall).



### Step 5

Disconnect the power cord on the left edge of the power box.

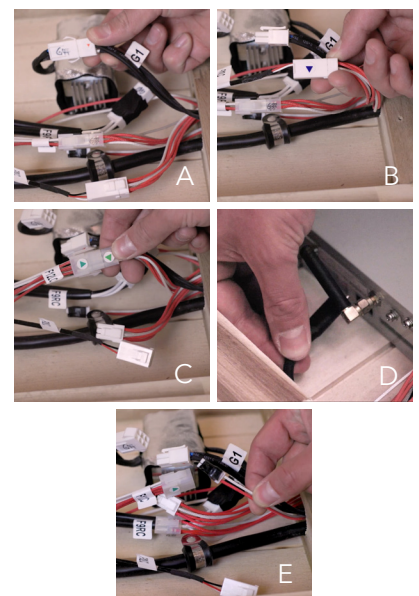
NOTE: The power cord is also anchored by a Phillips screw to the wood inside the base in the section to the immediate left of the power box.



### Step 6

We are now ready to begin disconnecting the power box from the wiring from the walls.

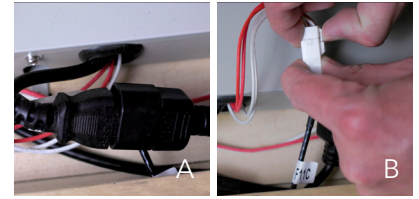
- Start with the left wall connections: Disconnect the power feed G1 (**TRIANGLE**). The connector has a lever on one side that you depress to pull the connector apart.
- Disconnect the L sensor connector (**TRIANGLE**).
- Disconnect the NIR connector (**TRIANGLE**).
- Disconnect the USB-C connector towards the rear of the box, underneath the attached antenna.
- There will be a spare 2-pin solid connector on this side that will be unused on the new box as well.



## Step 7

Now move around to the long front edge of the power box, starting with the wire port on the left (if facing the back wall).

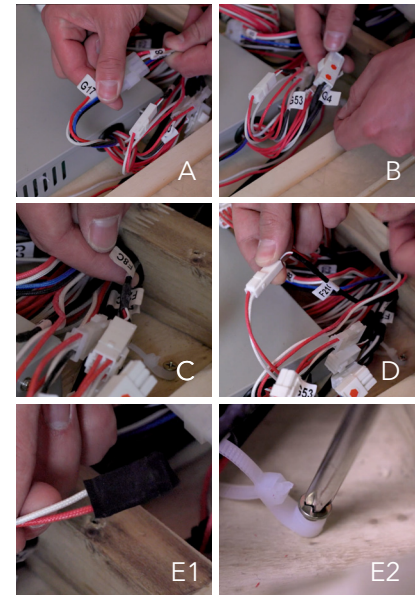
- Disconnect the black AC Plug power connector for the floor heater.
- Disconnect the G52-FL sensor 4-pin line (red/white wires with solid white connector) from F11.



## Step 8

Move along the front edge to the right front port of wires on the long front edge.

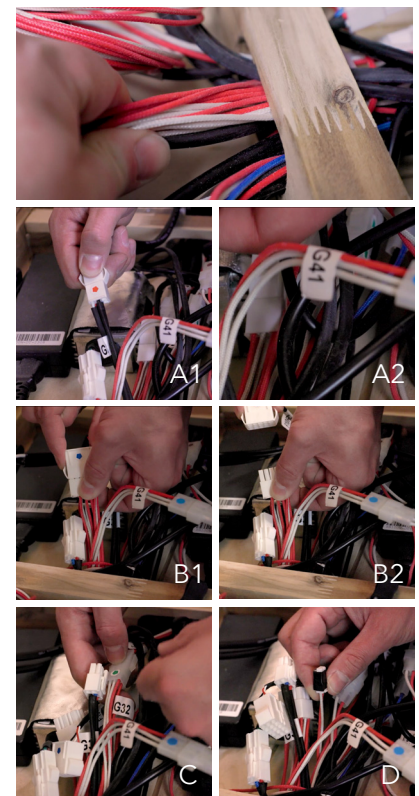
- Disconnect the 4-pin flat G17 connector (red/white/black/blue wires) from the F18 corresponding connection.
- Disconnect the G4 (**HEXAGON**) power connector from the F7 power cable (**HEXAGON**).
- Disconnect the G52-FR Sensor line (**HEXAGON**) from the corresponding F8 connector (**HEXAGON**).
- Disconnect the F50-FR sensor from the corresponding F21 connector.
- Finally, there will be a connector that may be covered with black tape (red/white wires) and zip-tied with a screw anchoring it to the base. Unscrew the anchored zip tie to disconnect. This connection (G30) will be unused on your new power box.



## Step 9

Turn the corner to the first port of wires on the right edge of the power box and note that these wires pass through the wood support to the section to the immediate right of the power box in the floor. There will be a zip tie holding a bundle of wires between the two black boxes. Cut this zip tie. There may be another zip tie in this section to the right that may need to be snipped to allow for a better view or angle on the connectors.

- In this section disconnect the G3 (**PENTAGON**) power connector from the corresponding F9 or F10 connector (**PENTAGON**).
- Disconnect the sensor connector (**PENTAGON**) (labeled G51-R) from the corresponding connector F10 or F11 (**PENTAGON**).
- Now disconnect the G32 NIR connector (semi-transparent connection) (**PENTAGON**) from the F12 connector (**PENTAGON**).
- There will be a spare 2-pin solid connector on this side that will be unused on the new box as well.

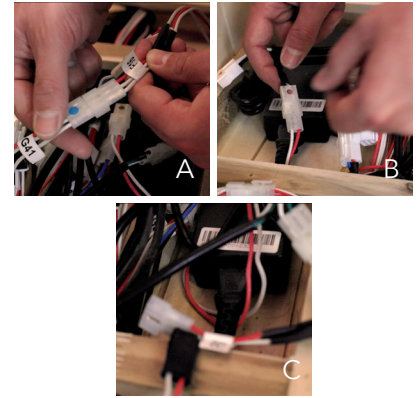




## Step 10

In this same section (front side right port)

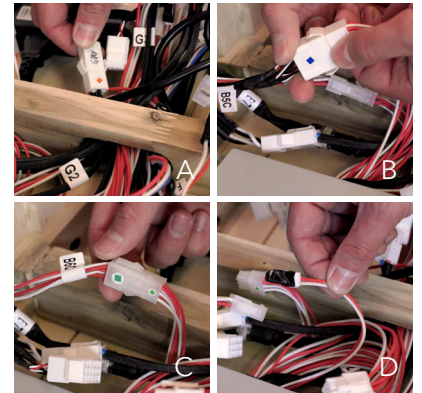
- Disconnect the 3-pin G41 connector (**CIRCLE**) from the F16 harness.
- Disconnect the G42 2 pin connectors (**CIRCLE**) from the paired transformer connectors (black box) located closer to the back wall.
- There should be a second transformer to the right of the power box that will continue to be plugged in through this process. Do not unplug the second transformer.



## Step 11

Move back to the right edge of the power box and

- Disconnect the G2 power (**SQUARE**) cable from the G44 (**CIRCLE**) connector coming from the small metal box with aluminum covering.
- Disconnect the sensor cable G50 (**SQUARE**) from the B5 sensor connector (**SQUARE**) from the back wall.
- Disconnect the G31 NIR (**SQUARE**) connector from the B6 (**SQUARE**) connector coming from the back wall.
- There will be a spare 2-pin solid connector on this side that will be unused on the new box as well.
- If applies, connection B7 should be left as is.



## Step 12

All connections will now be disconnected for removal of the power box.



## Step 13

To install a replacement power box, please follow the same steps making the connections described above.