

SDS TAP Retrofit Install – Orton3

Installation of TAP Control for Models Originally
Built with the Orton 3 Key Control

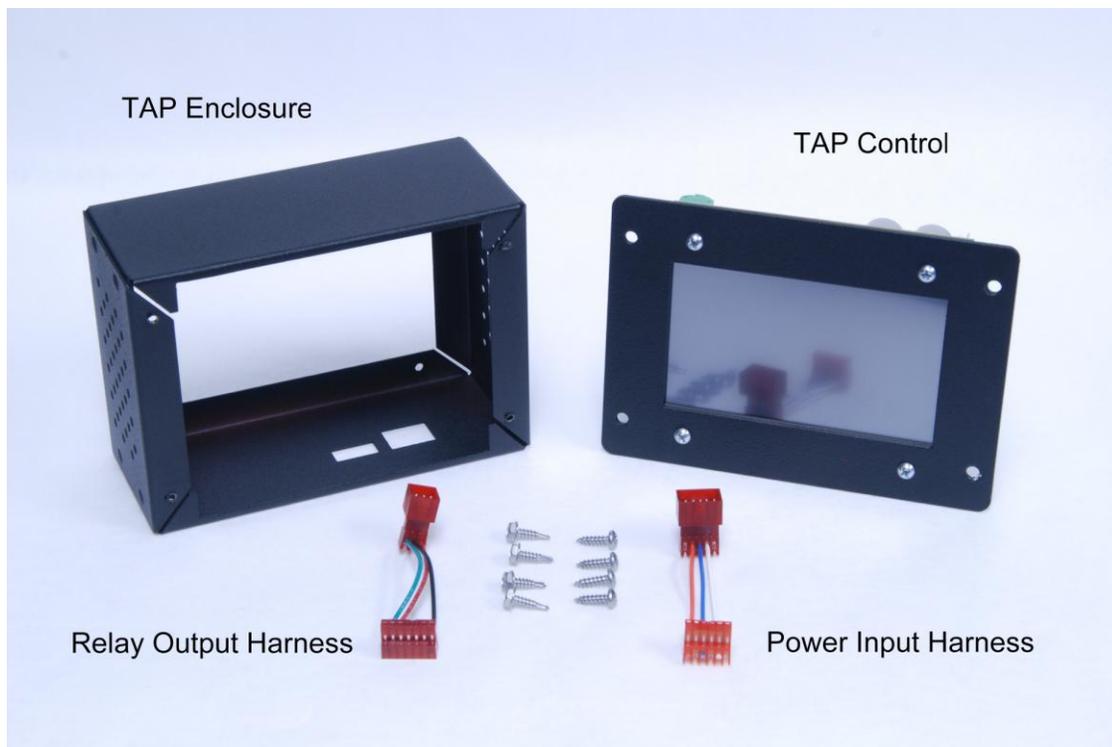
This SDS Industries TAP Retrofit kit and installation instructions are intended for use when converting a kiln originally equipped with an Orton 3 Key control. If the model you wish to convert is not equipped with an Orton 3 Key control then these instructions are not for you.

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Unplug or disconnect power from the kiln or oven before performing this procedure!

TAP Retrofit Kit Contents:

- TAP touchscreen control
- TAP Enclosure
- TAP Power Input Adapter Harness for Orton 3 Key
- TAP Relay Output Adapter Harness for Orton 3 Key
- 4, #6 Self-Tapping Sheet Metal Screws
- 4, #6 Phillips Screws



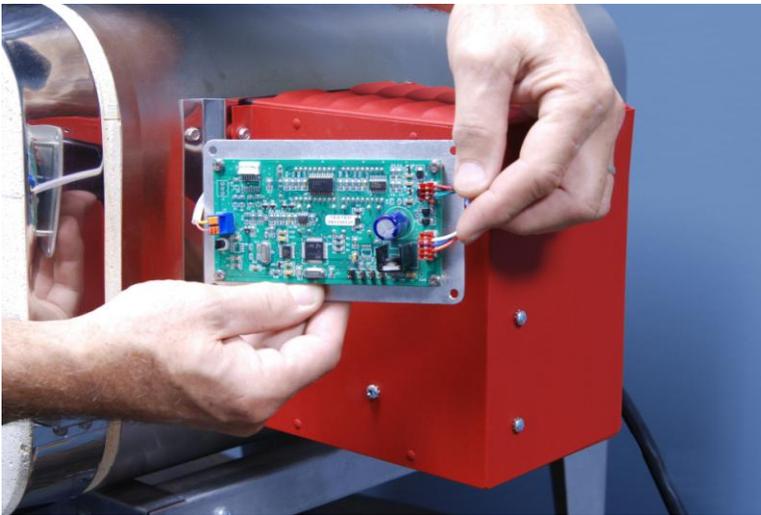
TAP Retrofit Kit Contents



Step 1:

Disconnect the kiln or oven from the power supply before proceeding with this procedure.

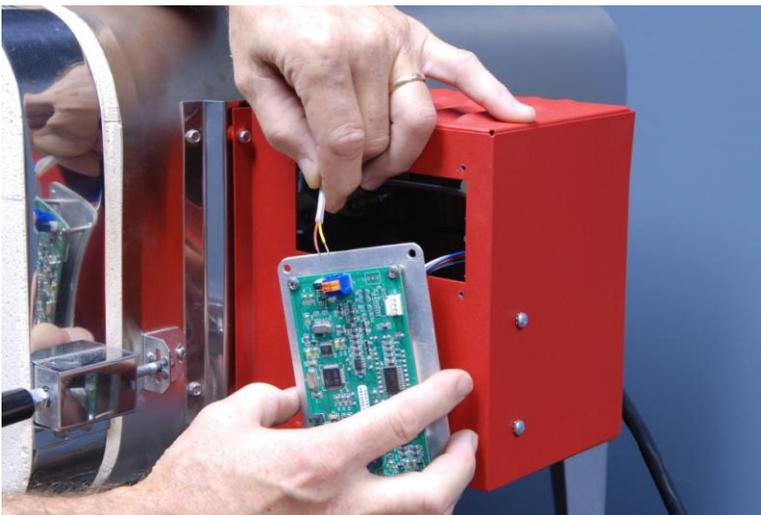
Remove the 4 screws that secure the existing control to the control panel.



Step 2:

Step 2: Pull the control away from the enclosure and remove the two wired sockets shown.

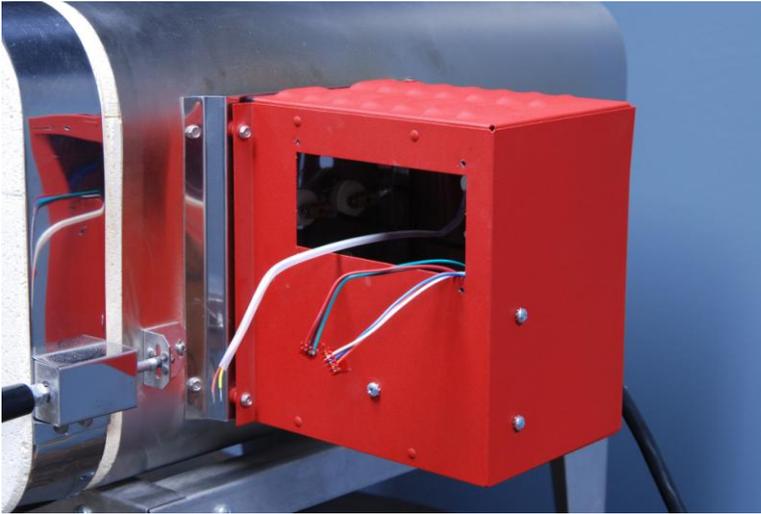
It's best to grasp the sockets when removing them and not the wires themselves.



Step 3:

Remove the thermocouple leads from the control as shown.

To do so press the 2 small buttons and gently pull on the thermocouple wires.



Step 4:

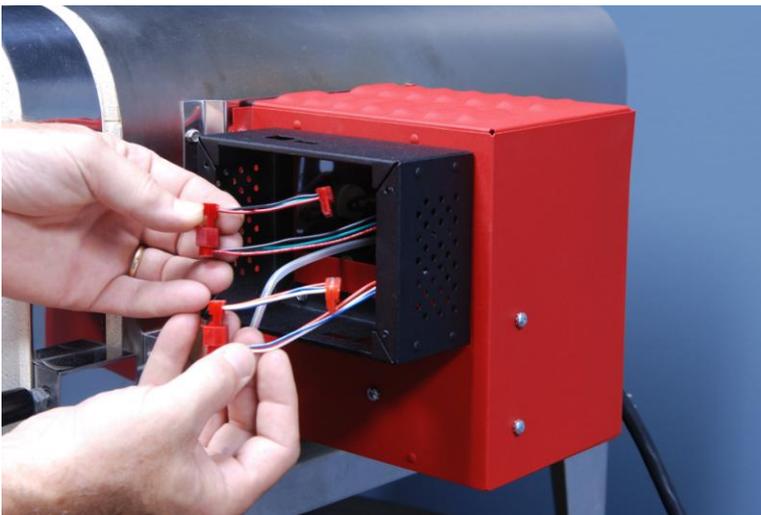
Disassembly is now complete.



Step 5:

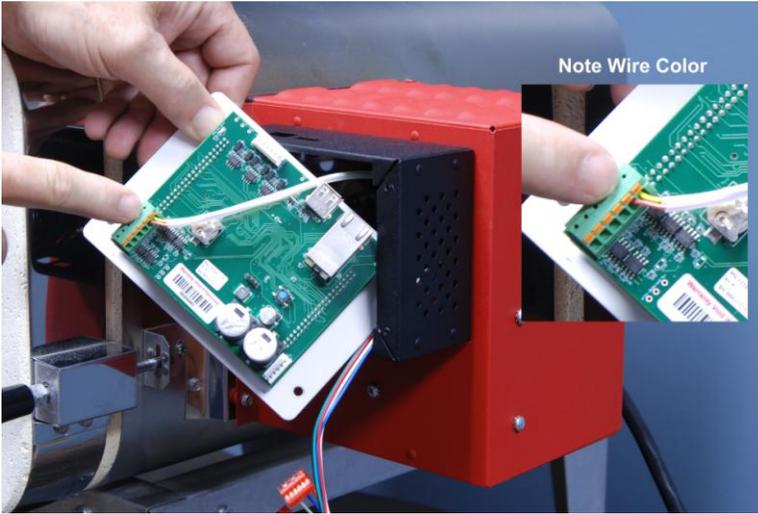
Place the TAP Enclosure over the existing panel opening as shown, USB access opening should be located on the bottom.

Center and square it up as best you can while taking note to surround and cover the existing control panel opening completely. Secure the TAP enclosure to the control panel as shown using the 4, #6 self-tapping screws provided.



Step 6:

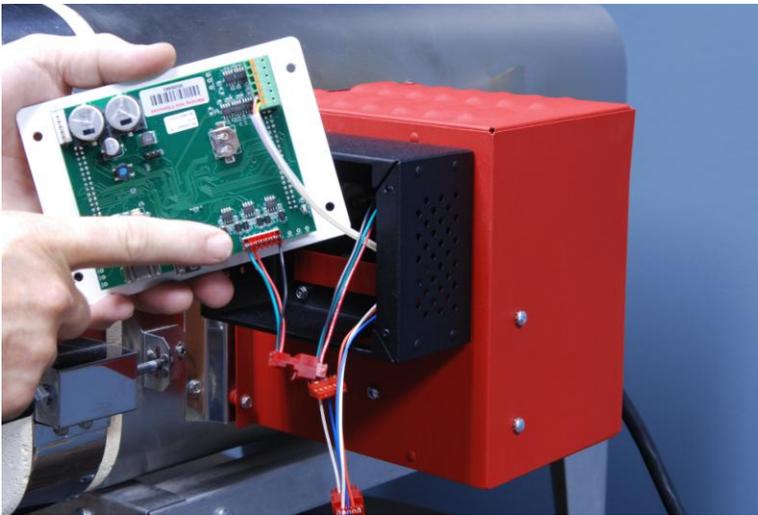
Attach the TAP control adapter harnesses as shown.



Step 7:

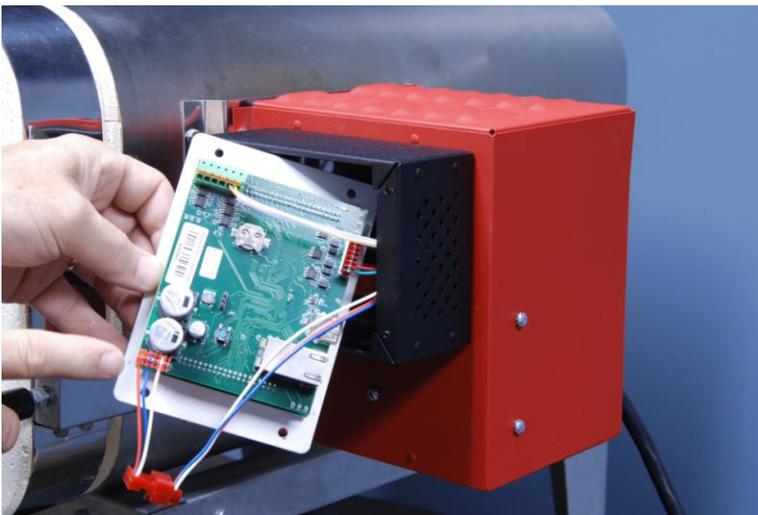
Connect the thermocouple leads to the TAP control board as shown. To do so, simply insert the wires into the socket holes and push in firmly. When complete, give the wires a gentle tug to ensure that they are well seated.

Note Thermocouple wire color. The Yellow wire is placed in the socket hole at the end of the socket with the Red wire placed in the socket hole next to it.



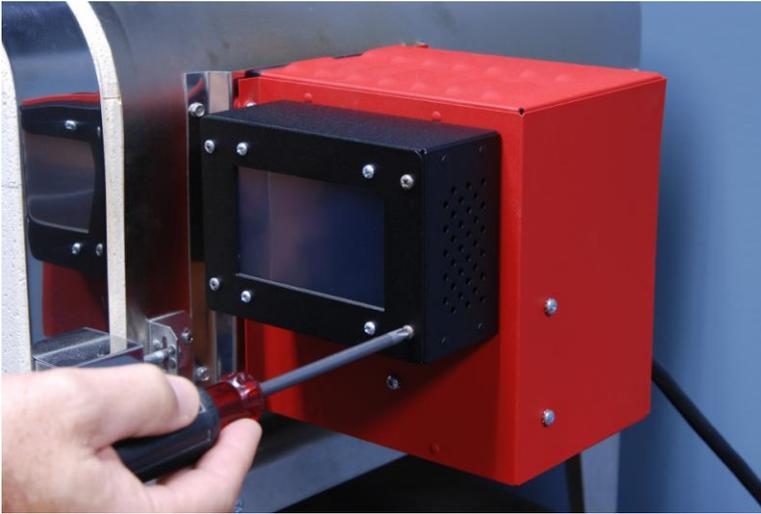
Step 8:

Install the 7 PIN Relay Output harness socket onto the TAP control as shown.



Step 9:

Install the 6 PIN Power Input socket onto the TAP control as shown.



Step 10:

Place the TAP control into the enclosure with the USB jack at the bottom and secure with the #6 Phillips screws. When placing the TAP control route the control harness wires in such a way as to keep them away from the kiln body.