This TAP Retrofit kit and installation instructions are intended for use when converting kiln and oven models to the TAP, touchscreen control that were originally built with Rampmaster II or RM3 controls that include the swing view, pivoting control enclosure feature. If the model you wish to convert does not include the swing view, pivoting control feature these instructions are not for you.

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

**TAP Retrofit Kit Contents:**

- TAP touchscreen control (affixed to mounting plate)
- TAP Compatible Swing View Enclosure
- TAP Power Input Harness
- TAP Relay Output Harness
- Zip-Tie
Step 1: Remove the 4 screws that secure the existing control to the Swing View enclosure.

Step 2: Pull the control away from the Swing View enclosure and remove the wires as shown. 
Hint: It’s best to grasp the terminal and wiggle a bit as you’re pulling them off. Try not to pull directly on the wires.
Step 3: Remove the thermocouple leads from the control as shown.

Step 4: Clip off the Zip Tie securing the control cable to the Swing View enclosure as shown.
Step 5: Remove the Swing View enclosure ground using an 11/32” tool.

Step 6: Remove the thumbscrew(s) as shown. Your model may have 2 thumbscrews.
Step 7: Remove the Swing View enclosure pivots. If there is a difficult moment during this procedure this is probably it. The nut is a 3/8\". We have illustrated the use of a pair of long nose pliers to grasp the nut – it works a little better.

Step 8: Pull the Swing View enclosure away from the panel and wiring. Disassembly is now complete.
Step 9: Insert control cable and thermocouple wires through the new Swing View enclosure as shown.

Step 10: Attach Swing View enclosure pivots. Take care to place the pivot shoulders through the bracket holes when tightening. If you don’t it doesn’t pivot very well.
Step 11: Install thumbscrew(s). Your model may have 2 thumbscrews.

Step 12: Thread the Zip Tie through the two small holes in the back plate of the Swing View enclosure and secure the control cable and thermocouple wire as shown. Clip off the Zip Tie tail when complete.
Step 13: Attach the Swing View enclosure ground as shown.

Step 14: Attach the TAP control harnesses as shown.

We have designed the TAP control harnesses to color-match the existing control wiring.

Blue/Blue to Blue
Orange/Orange to Orange/Green
White/White to White
Black to Black (You may not have)
Red to Red
Brown to Brown (You may not have)
Yellow to Yellow (You may not have)
Green to Single Green (You may not have)

As noted above, you may or may not have Black, Brown, Yellow or Single Green wires in your original wiring harness. Not a problem, they don’t get connected to anything. You can simply leave them as they are.
Step 15: Connect the thermocouple lead to the TAP control board as shown. The Yellow wire is connected to the lower point and the Red wire is connected to the next point up. Before installing these wires we recommend that you straighten them and trim the wire until about 1/8" of wire is showing past the colored wire insulation. This just makes for a cleaner and more secure connection. Tighten terminal screws snuggly once the wire has been inserted in them.

Step 16: Install the Relay Output harness socket onto the TAP control as shown.
Step 17: Install the Power Input harness socket onto the TAP control as shown.

Step 18: Place the TAP control into the Swing View enclosure as shown and secure. We recommend that you insert all 4 screws into the mounting holes before fully tightening. Things just line up better that way!
Step 19: Inspect the USB and Ethernet connection ports for any wiring that may be in the way. If you do notice wiring blocking access to these ports simply remove the TAP control from the Swing View enclosure, adjust wire routing and re-attach.

Installation is now complete.