



Touchscreen Controller Upgrade (KMT/GMT)



Congratulations on the purchase of your New Touchscreen Controller Upgrade Kit!

Contents

- 1 Touchscreen Controller
- 1 Conversion Board
- 1 Static Bag
- 1 Touchscreen Controller Operating Manual

Tools Required

- #2 Phillips screwdriver
- Skinny slotted screwdriver

STEP-BY-STEP INSTRUCTIONS:

Before beginning the actual replacement, it is strongly recommended to read through these instructions to familiarize yourself with the following procedures.

REMOVE THE OLD CONTROLLER

1. Unplug or Shut Off power to your kiln.
2. Loosen the 4 corner screws securing the old controller to the Control Box.

SAVE these 4 screws for later.

NOTE: The lower left screw is installed with a star washer. This will not be needed during the installation of your new touchscreen controller.



3. Switch the Red wires from your old control board to the Conversion Board. The terminal posts are labeled, but move one at a time to not mix them up.



TOUCHSCREEN CONTROLLER UPGRADE CONTINUED

- Remove the Current Sensor from the old control board with a skinny slotted screwdriver. Loosen the two screws and set the Current Sensor aside to reinstall on the new board.

NOTE: Not all kilns came equipped with a current sensor.



- Next, remove the Thermocouple Wires. Loosen all of the thermocouple leads and remove the wires from the block.

NOTE: If you have a Zone Controlled Kiln and have more than one set of thermocouples, be sure to mark each wire set 1, 2 or 3.



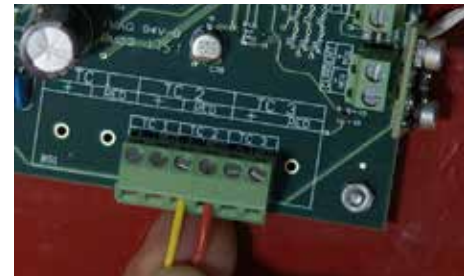
Your new controller was shipped with a Static Bag. Place your old control board in the Static Bag for storage, just in case you need a backup.

NOW LET'S INSTALL YOUR NEW TOUCHSCREEN CONTROLLER

The new Thermocouple Block is a little different. Wires are locked in with set screws just like the current sensor.

- Place the wires in the back of this block and tighten down the screws. The correct spots are labeled **RED** for the red wire and **+** for the yellow wire.

- If you have a single Thermocouple, it goes in the spot labeled TC2.



- Install the Current Sensor the same way you removed it... but in reverse. Make sure the wires are facing down, as shown in the picture.

- Make sure you use the block marked CURRENT.
- If your old controller did not have a Current Sensor, we **HIGHLY** recommend installing one. Most of the diagnostic features of the new controller depend on it. Part # 2648



- The donut-shaped end of the Current Sensor needs to have 1 phase wire passing through it for each powered section.

- NOTE: Two wires from the same section would cancel each other out and you would get a reading of zero.*



TOUCHSCREEN CONTROLLER UPGRADE CONTINUED

9. Install the Conversion Board.

- One end of the board fits over the 10-pin connection.

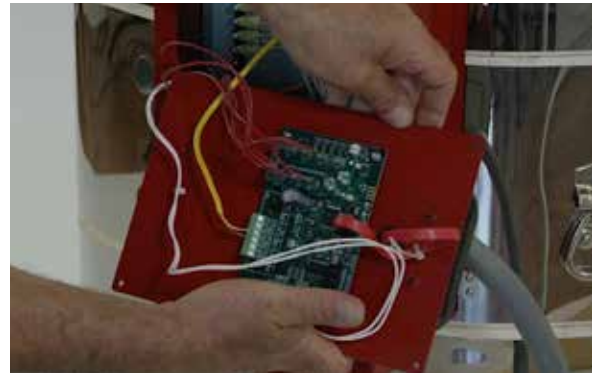


- The other end with 2 posts snaps into these holes.



10. Start with the 10-pin side and line it up so all the pins are in the right place.

- It is a little tricky, so take your time and be careful not to bend any pins.
- With the pin side lined up, but not all the way on, line up the 2 posts and snap both ends in at the same time. **IMPORTANT - If the pins are misaligned and you plug in the kiln, your controller will be ruined.**
- If you have an Envirolink or anything else hooked up to Output 4, you will want to download the pdf instructions for installation before attaching the controller.



11. Now just line the new controller up on the box and screw it in place with the 4 screws you saved in Step 2.

12. Congrats you have completed installation!
You may now plug in your kiln.

Before Firing your kiln, consult your Operating Manual to ensure all the settings are configured correctly.



TOUCHSCREEN CONTROLLER UPGRADE CONTINUED

IMPORTANT CONFIGURATIONS**Do you have a Type-S Thermocouple?**

If your kiln is equipped with a Type-S Thermocouple, you will need to contact Skutt **BEFORE FIRING** your kiln. We need to provide you with a special code so you can configure the controller to read the signal correctly. **To avoid damaging your kiln, DO NOT FIRE until it's been configured by Skutt.**

Do you have Solid State Relays?

If your kiln is equipped with a Solid State Relay, you will need to contact Skutt **BEFORE FIRING** your kiln. We need to provide you with a special code so you can configure the controller to function the kiln as intended.

Do you have Zone Control?

If your kiln is equipped with Zone Control, you will need you will need to contact Skutt **BEFORE FIRING** your kiln. We need to provide you with a special code so you can configure the controller to function the kiln as intended.

Once you've reviewed your configurations and confirmed your controller is setup properly, you can give it a test fire.

- If you are a Ceramic Artist, run a Cone 04 Medium Speed firing using witness cones.
- If you are a Glass Artist, run a Texture Fuse program with 2 layers of glass.

If either firing does not turn out as expected, give Skutt (503) 774-6000 or your Distributor a call and we will help you figure it out.

Happy Firing and thank you for choosing Skutt!

We have an app for that!

We are still finding creative ways to improve your experience with this controller. One of the exciting new features is a tool we hope you find very valuable, a Free App! KilnLink Free App works in conjunction with the WiFi and allows you to monitor your kiln temperature and status from your smartphone. To get started, download KilnLink from your smartphone's app store.



TOUCHSCREEN CONTROLLER UPGRADE CONTINUED

SMART SUPPORT - HELP US HELP YOU!**WHAT'S IN A SKUTT NAMEPLATE?**

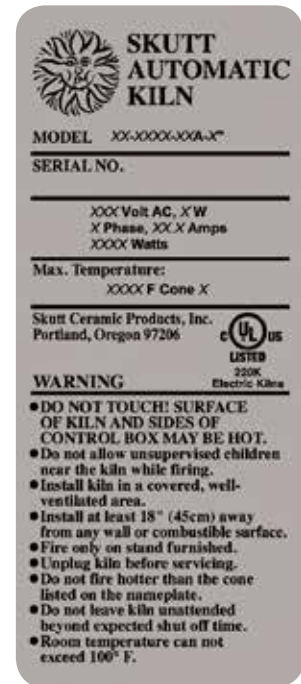
At Skutt, we keep a record of every kiln manufactured as sold so that we can provide you with premium support. Our nameplates identify how your kiln is configured.

That smart new controller you just installed has a unique nameplate and we'd like to update your Skutt Kiln record to reflect the controller upgrade. So, the next time you call in for parts or support we'll know what configurations you're working with.

What we need from you...

1. Your **Kiln Serial Number, Model, Voltage and Phase** (located on the beige Skutt Nameplate on the side of your Control Box).

- If your kiln has other markings, we'd like those details too:
 - CK #
 - Type S Label



2. Your **Touchscreen Controller BI Serial Number** (located on the black Skutt Nameplate below the Touchscreen). *Note: The Controller BI Serial Number can also be found through the controller menu by pressing the WiFi icon in the top left corner of the Home Screen, then select Serial Number from the menu.*



BI Serial Number

PLEASE CALL SKUTT WITH THIS INFORMATION: (503) 774-6000

We will update your kiln record to reflect the controller upgrade.