

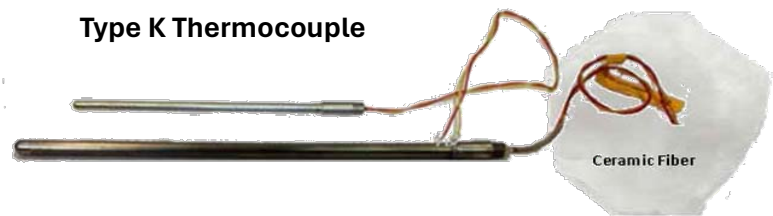
## Thermocouple Replacement

Thermocouple designs can vary based on the age of the kiln. This is the current design for Type K and Type S thermocouples. You may need to enlarge the hole in the kiln where the thermocouple is inserted to accommodate the new thermocouple.

It is extremely important that the ceramic fiber enclosed with the thermocouple be used to eliminate any air space in the hole where the thermocouple is inserted. Failure to comply will result in a defective thermocouple. The thermocouple hole must be insulated from the inside of the firing chamber to avoid excess heat in the electrical box.



Set Screw



Type K Thermocouple

Ceramic Fiber



Type S Thermocouple

### Steps to Replacing Thermocouple

1. Remove the electrical box attaching the controller board to the kiln.
2. Loosen the set screw holding the defective thermocouple in the kiln and disconnect from the board.
3. Strip the new thermocouple's yellow and red wires (Type K) red and black wires (Type S) 3/8 of an inch.
4. Insert the new thermocouple approximately 1 inch inside the kiln firing chamber and tighten the set screw.
5. Attach Type K thermocouple yellow wire and Type S thermocouple black wire to the positive connection on the electronic board and the red wires Type K and Type S thermocouples to the negative connection on the electronic board. Each board has three connections for thermocouples. One thermocouple, one zone, if 2 or 3 zone, attach thermocouples for each zone.
6. Reattach electrical box.