

THERMOCOUPLE REPLACEMENT

REMOVING A FAULTY THERMOCOUPLE FROM KILN

1. Turn of kiln power supply.
2. Open cap with a screwdriver.
3. Use a screwdriver to loosen terminals. Free orange and white wires.
4. Use a wrench to loosen threaded bushing then remove braided cable from thermocouple head.
5. Reattach cap.
6. Loosen tension screws on locating flange, then withdraw thermocouple from kiln.
7. Store faulty thermocouple. A Blaauw service representative will inspect the thermocouple during your next service call.

INSTALLING A NEW THERMOCOUPLE

1. Carefully remove the new thermocouple from packing materials. Inspect ceramic protective tube for any shipping damage.
2. Ensure support tube set screws are snug.
3. Insert thermocouple into kiln via locating flange. Tighten tension screws.
4. Remove cap from thermocouple head.
5. Unscrew threaded bushing. Remove paper dust shield and discard.
6. Remove washer and rubber seal. Feed braided thermocouple cable through threaded bushing, washer, then seal.



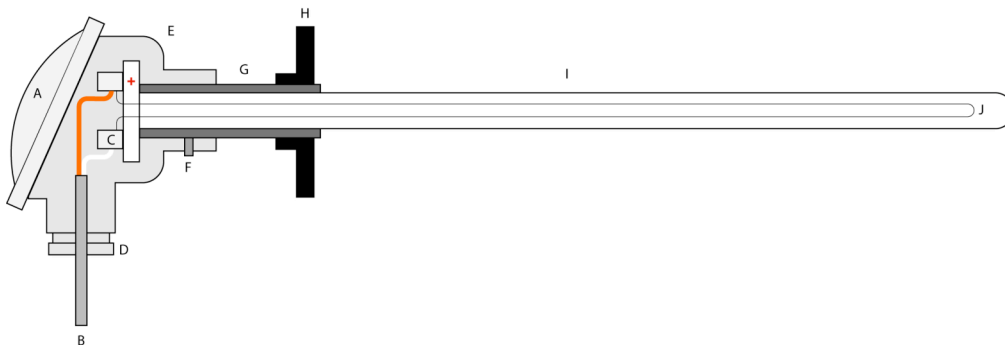
paper dust shield



washer and rubber seal

7. Reattach threaded bushing to head, feeding cable to terminals. Tighten bushing with a wrench until snug.
8. Attach the orange wire to the terminal differentiated by a "+" or an orange or red dot. Attach the white wire to the remaining terminal. Terminal design may vary.
9. Ensure the following:
 - a. Orange and white wires do not touch each other or the head.
 - b. Thin platinum wires do not touch each other or the head.
10. Reattach cap.
11. Turn on kiln and wait until command mode is displayed.
12. Press TEMP button until control panel displays the temperature for the replaced thermocouple (°A for thermocouple A, °B for thermocouple B).
13. Use a lighter to confirm correct operation of thermocouple. Always do this step. The temperature should rise. If it does not, contact your nearest representative. Never fire the kiln if the thermocouple is not functioning correctly.

PARTS OF A THERMOCOUPLE



- A. Cap
- B. Braided cable
- C. Terminal
- D. Threaded bushing
- E. Thermocouple head
- F. Support tube set screw
- G. Support tube
- H. Locating flange
- I. Protective tube
- J. Platinum wire