





KILN FIREBRICK





STAINLESS STEEL SKINS



COMMERCIAL ELECTRIC KILNS











Identifying Olympic Kilns Standard Line for Pottery & Ceramics



Standard Line Pottery/Ceramics

129E – 11.25" wide x 9" deep

E - equipped with electronic controller

2327HE – 23 3/8" wide x 27" deep; H fires to high temperatures, cone 10 2350° F

E – equipped with an electronic controller

Identifying Olympic Kilns Glass Kiln Models



Standard Line Glass Kilns

189GFETLC – 17 ½" wide x 9" deep; GF – glass fusing (has a lid element),
E – Equipped with an electronic controller, TLC – top or clamshell loading

Commercial Glass Kilns

Glass – GF12E – GF-glass fusing kiln with elements in the lid of kiln with 12 cubic feet of usable firing space within the chamber E-equipped with an electronic controller

Identifying Olympic Kilns Commercial Gas & Electric Kilns

Commercial Line - Olympic commercial kilns are abbreviated by their design and cubic foot firing space within the model.

Gas – DD12 – DD-downdraft kiln with 12 cubic feet of usable firing space within the chamber

Electric – FL20E – FL-front-loading electric with 20 cubic feet of usable firing space within

the chamber; E-equipped with an electronic controller





Abbreviations

- •E An electronic controller equips the kiln
- •S Solid stainless jacket
- •H − 3" brick and the kiln fires to cone 10-2350° F
- •DM dual media for firing glass and ceramics, 3" brick and the kiln fires to cone 10-2350° F has lid element for glass fusing GF glass fusing kiln with lid element
- •GF glass fusing kilns, equipped with lid element
- •GFTLC glass fusing kiln that has duplicate openings either top or clamshell loading capabilities
- •P Kiln equipped with pyrometer
- •FL Front loading
- •G Updraft gas kilns (Raku and Torchbearer)
- •DD Downdraft gas kilns
- •T An Auto-Cone sitter and timer equip the kiln

ABC's of Electricity

 Amp – unit of electrical flow produced by volts acting through the resistance ohm (element)

Volts – unit of electrical pressure

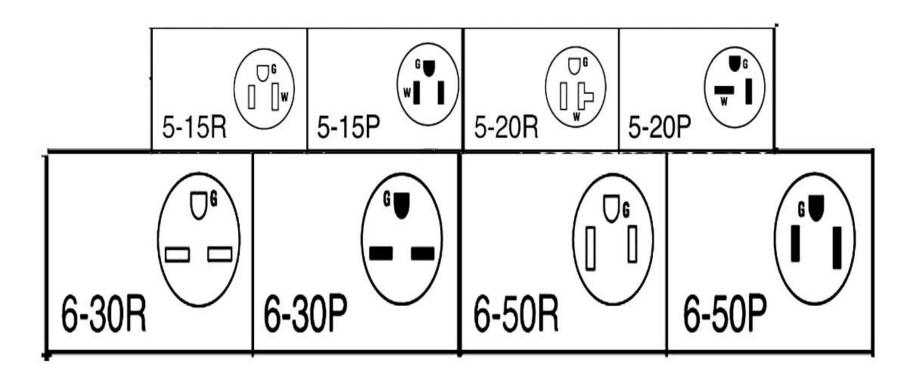
Watts – unit of power

Amps x Volts = Watts

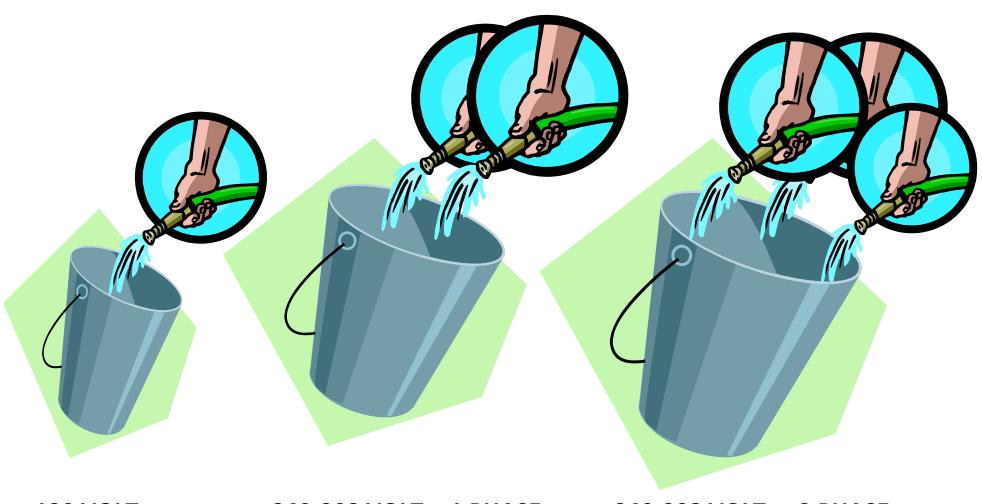
Breaker Size – Plug & Receptacle

Electrical code requires that the breaker size be 125% greater than the amperage required by the kiln

R = Receptacle, P = Plug



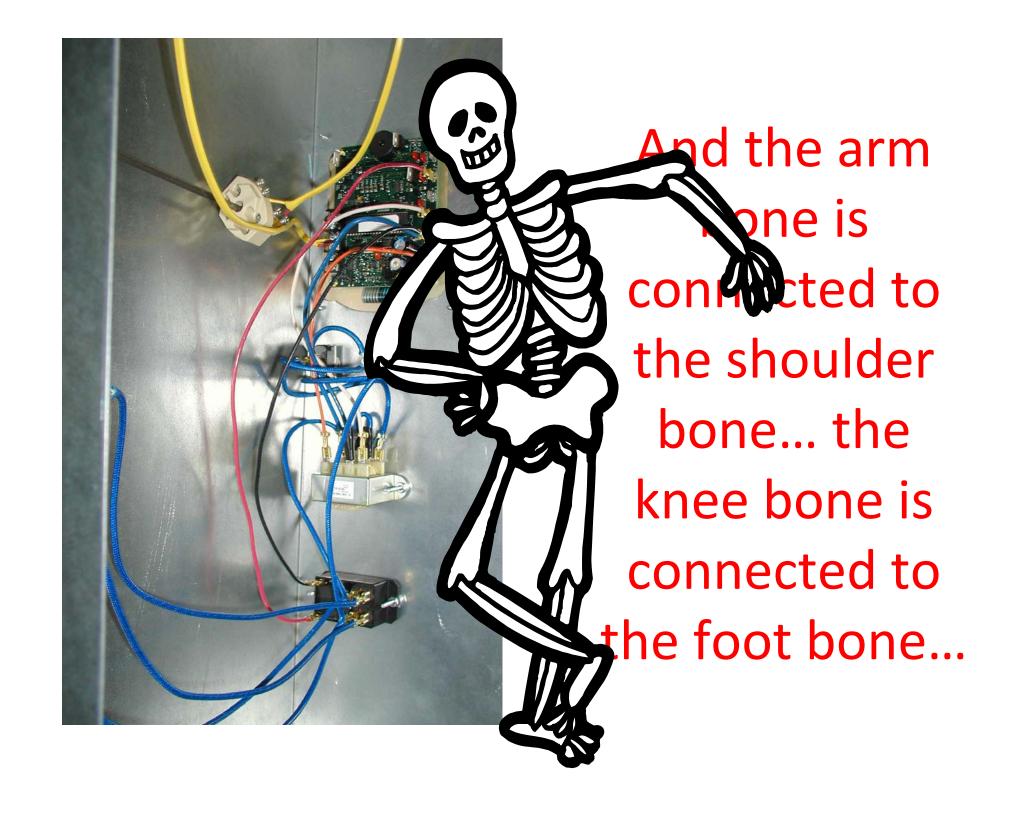
Single & Three Phase Wiring



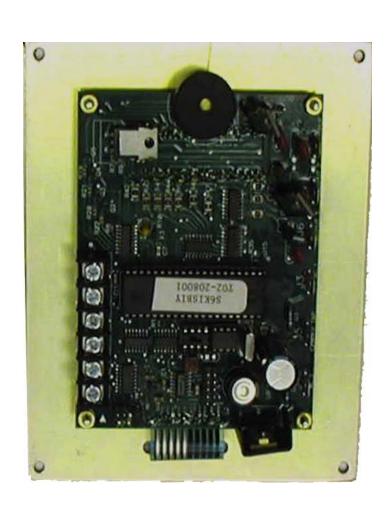
120 VOLT

240-208 VOLT - 1 PHASE

240-208 VOLT - 3 PHASE



ELECTRONIC CONTROL BOARD





Error codes - 3-Key Controller

• **ERR1**

ERRP



FAIL or a Negative Temperature is Displayed

Error codes – RTC-1000 Controller

- **ERR1**
- ERRP
- ERR6 or FAIL
- ERR8
- ERRD
- ERR-
- ERRE or ERRT
- ERRA



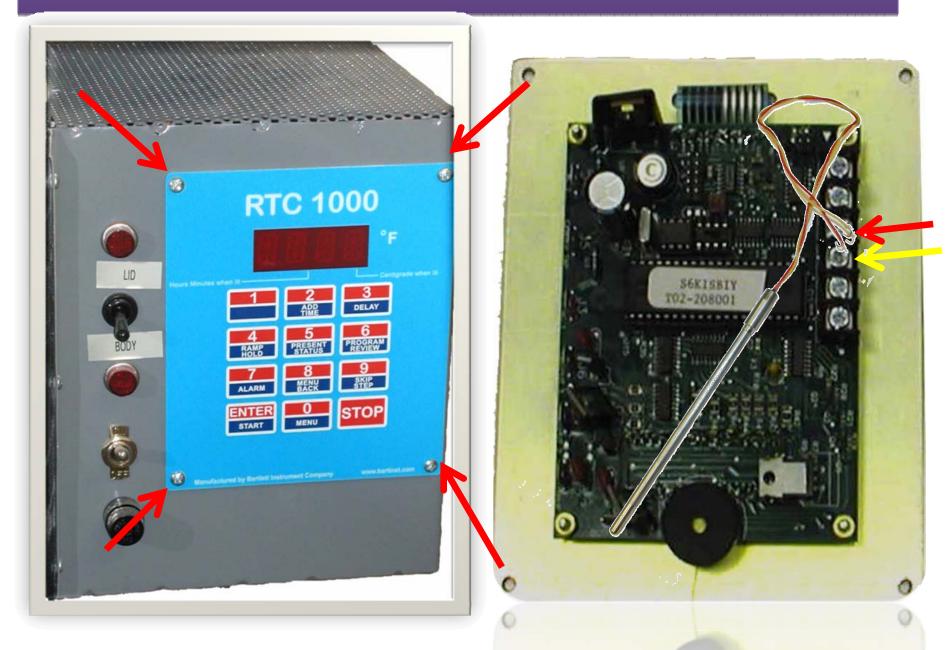
Error codes – V6-CF Controller

- E-0
- E-1
- E-2
- E-3
- E-4
- E-5
- E-6
- E-7
- E-8
- E-9

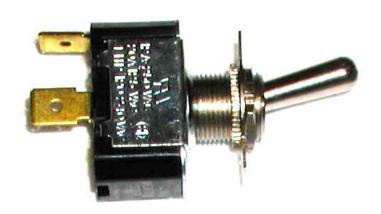


- •ERRP
- •E- -
- •E- E
- •E-bd
- •E- d
- •E- A
- •E- r
- •E- U
- •E- H
- •PF
- •StUc
- •FAIL

Replacing Thermocouple



Inside the ELECTRICAL BOX



ON/OFF TOGGLE SWITCH



CONTROLLER/MANUAL
TOGGLE SWITCH

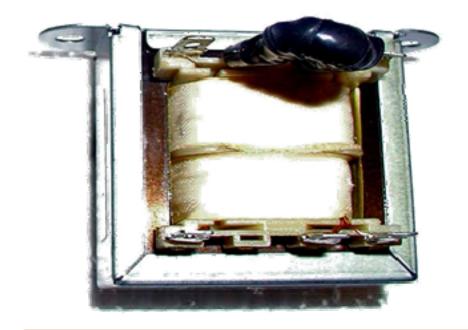




TRANSFORMER 12 VOLT for 120 or 240/208 VOLT

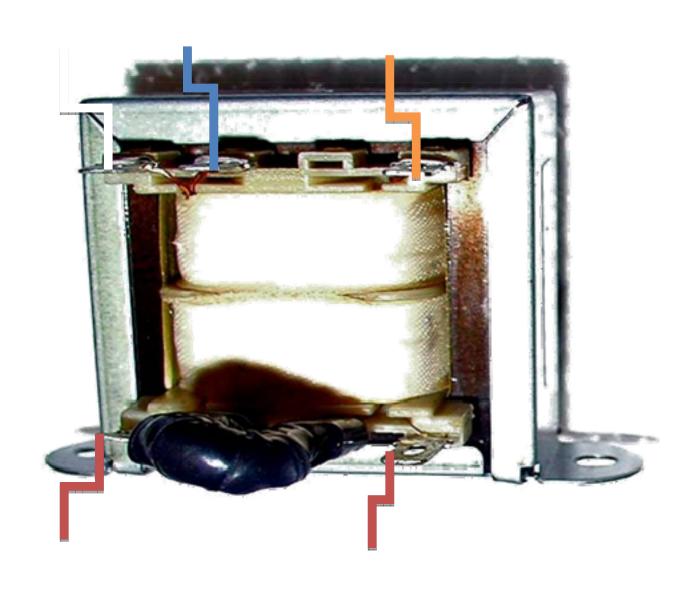


120 VOLT

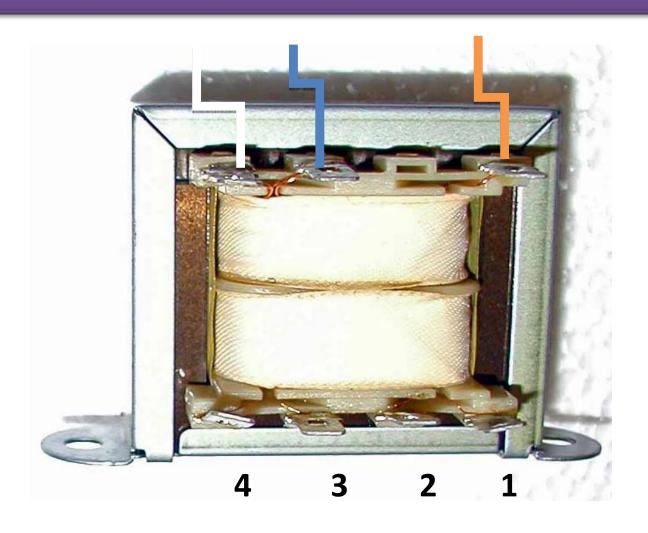


240/208 VOLT

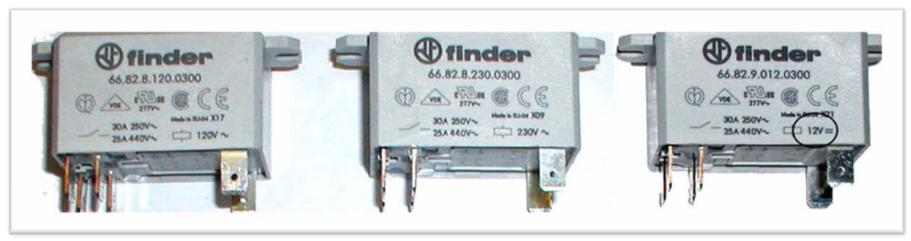
240/208 TRANSFORMER 12 VOLT



120 VOLT TRANSFORMER

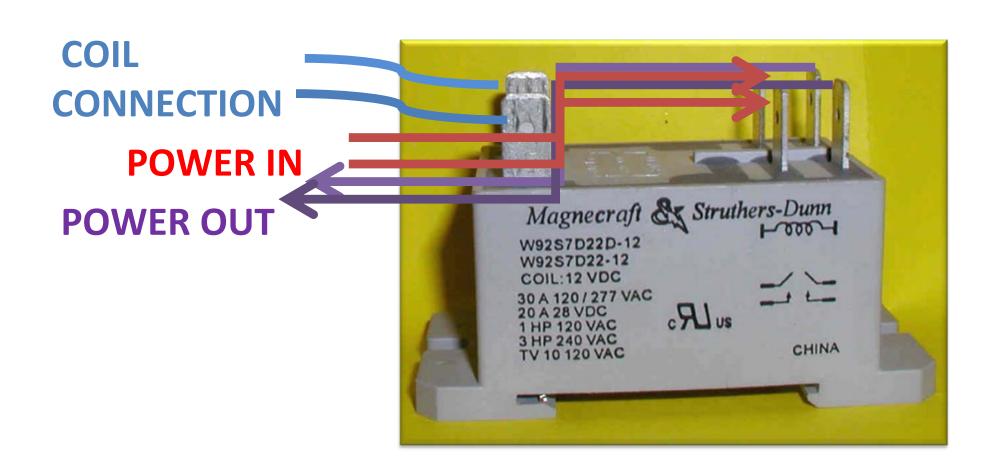


240, 120, 12 Volt Relay





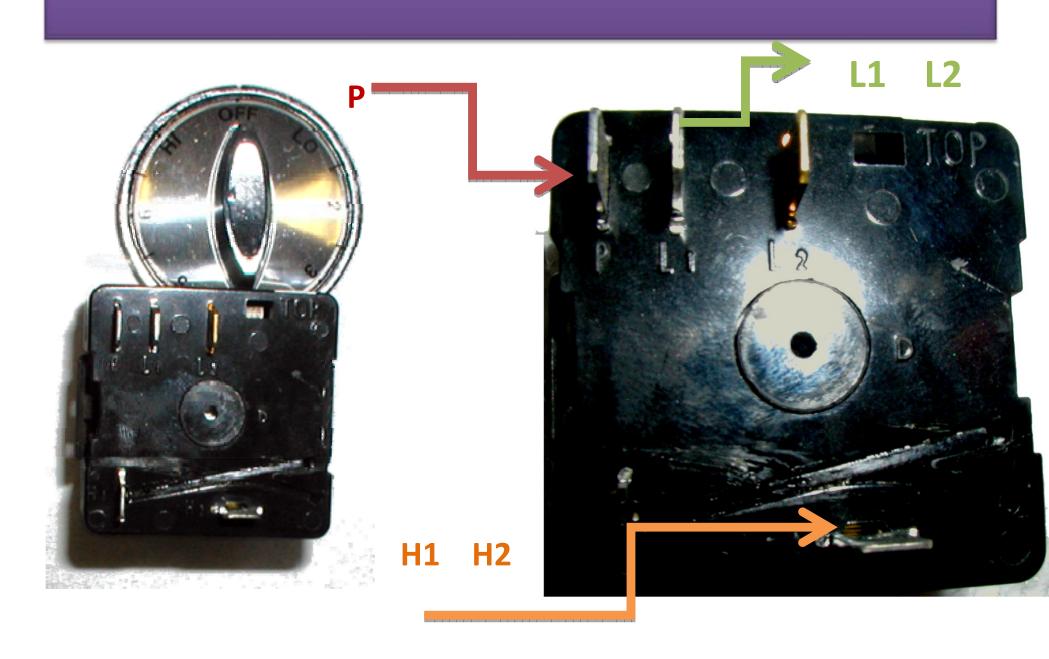
240, 120, 12 Volt Relay



120 VOLT RTC-1000 ELECTRICAL BOX



240 Volt Infinite Switch

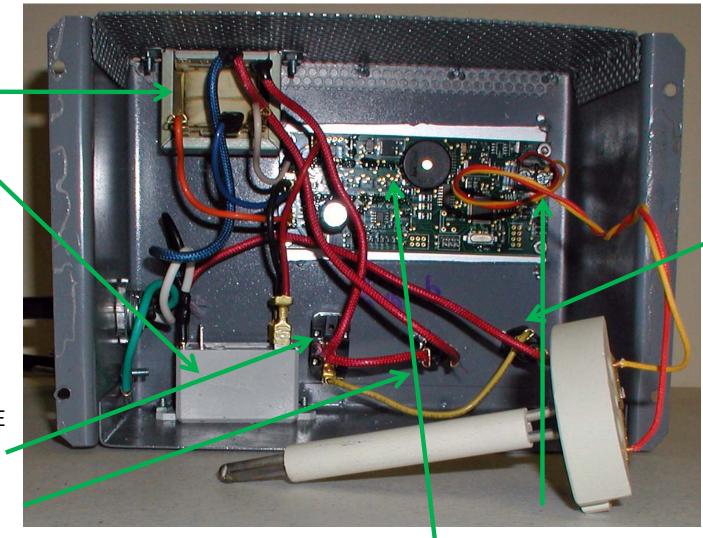


3-KEY CONTROLLER



INSIDE 3-KEY ELECTRONIC CONTROLLER ELECTRIC BOX

- 120 VOLT TRANSFORMER
- 12 VOLT RELAY



 ON/OFF TOGGLE SWITCH

PILOT LIGHT

THERMOCOUPLE CONTROL BOARD

FUSE

120 VOLT RTC-1000 ELECTRICAL BOX



Blue wires – attaches lid element to relay – this is the relay you need to replace

INSIDE 120 VOLT RTC-1000 ELECTRICAL BOX

THERMOCOUPLE _

PILOT LIGHT FOR LID/BODY SWITCH

LID/BODY TOGGLE SWITCH

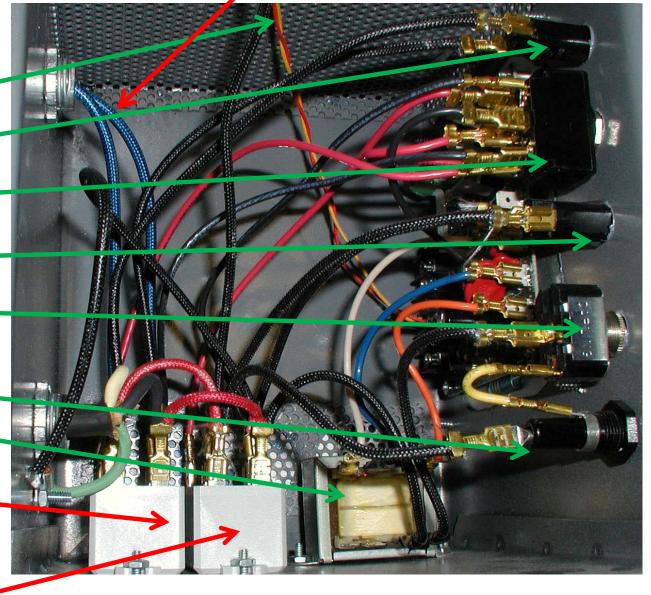
PILOT LIGHT FOR KILN

ON/OFF TOGGLE SWITCH

FUSE

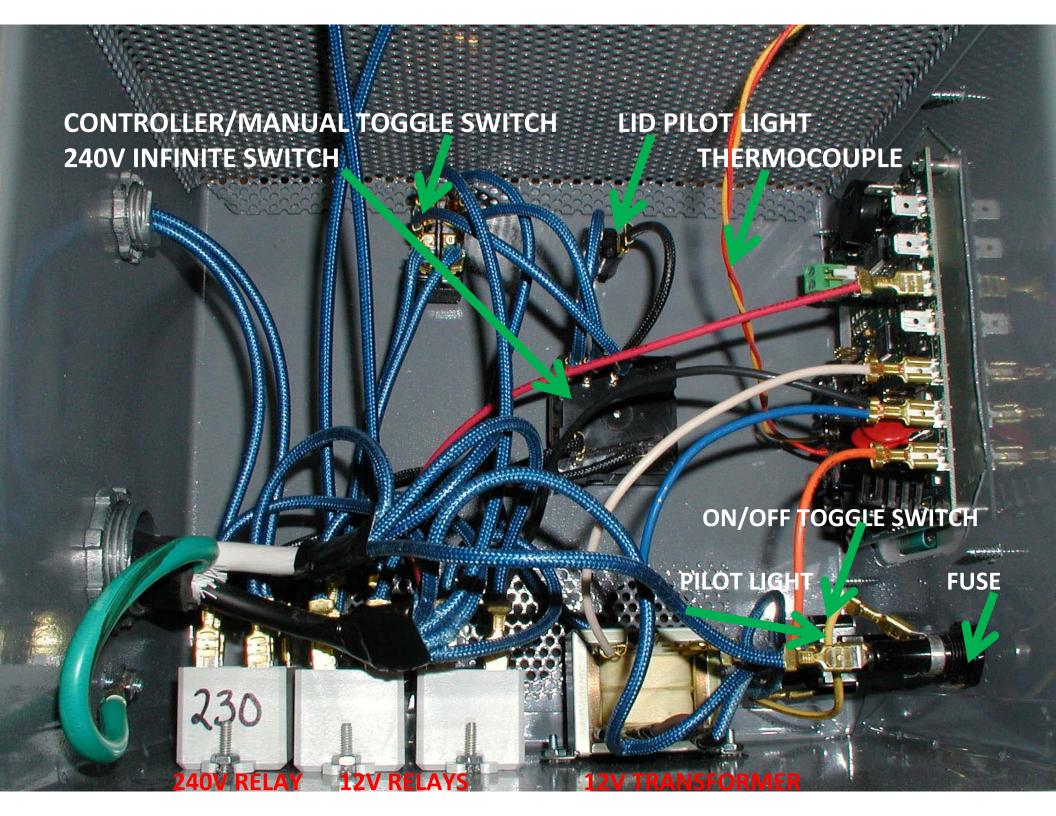
120 VOLT TRANSFORMER

12 VOLT RELAYS



240-208 Volt RTC-1000 ELECTRICAL BOX





V6-CF & RTC-1000 WALL UNIT



MERCURY RELAY___

New Option for Kiln Sitter Equipped Kilns Electro Sitter!

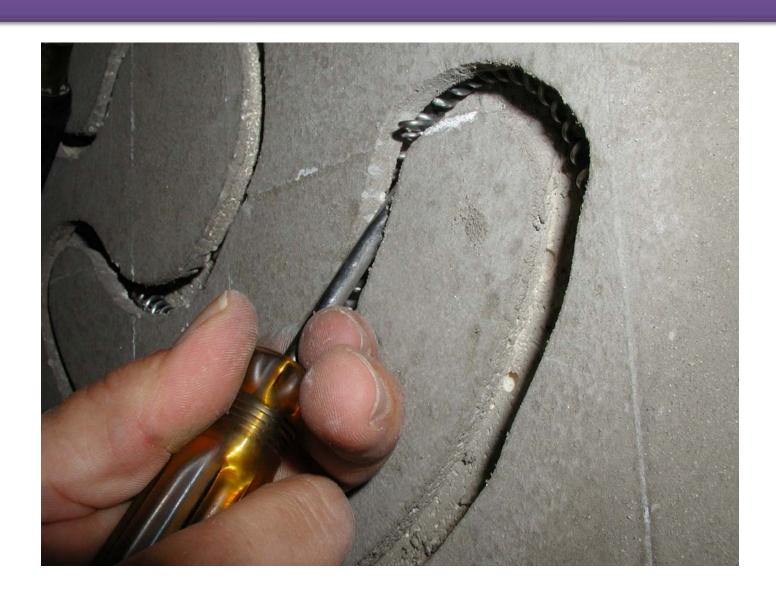


- Electro Sitter replaces all kiln sitter and kiln sitter timers.
 It's easy and best of all, parts are available!
 - The Electro Sitter box is complete with thermocouple attached. The box will fit where the kiln sitter/timer were screwed into the kiln. Simply remove the screws from the kiln sitter on front of the kiln, then detached wires connecting to kiln sitter. Wires will be attached to the back of the Electro Sitter exactly as they were attached to the kiln sitter back plate.

ELEMENT REPLACEMENT



Lid Element – Replacement or Sagging



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Lid Element – Replacement or Sagging

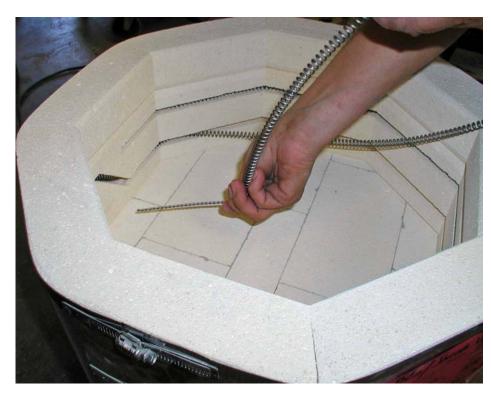




REPLACING WALL ELEMENTS

INSERT PIGTAIL THROUGH TERMINAL BRICK

INSERT ELEMENT IN GROOVE – GROOVE HOLDS THE ELEMENT





REPLACING WALL ELEMENTS

TWO SCREWDRIVERS or NEEDLE NOSE PLIERS for ELEMENT PIN PLACEMENT

PLACE PIN in SCREWDRIVER with HOLE or NEEDLE NOSE PLIERS





REPLACING WALL ELEMENTS

ELEMENT PIGTAIL – ½ GOES THROUGH HI TEMP CONNECTOR

WIRE GOES THROUGH ½ of HI TEMP CONNECTOR & THEN BOTH ELEMENT & WIRE CRIMPED WITH CRIMPING TOOL





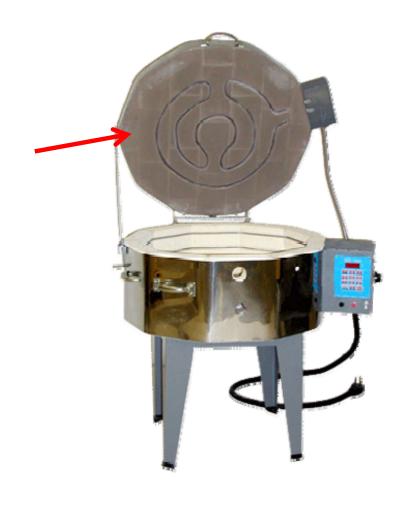
MORTAR & KILN PATCH



MORTAR & KILN PATCH

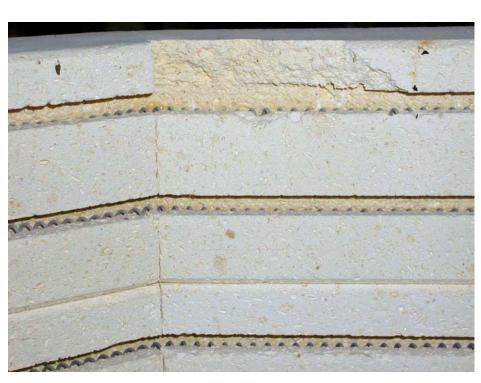
MORTAR

KILN PATCH



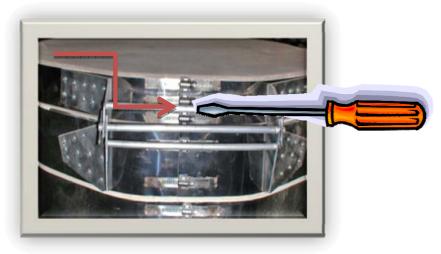


BRICK REPLACEMENT





GENERAL MAINTENANCE BANDS, VACUUMING



TIGHTEN STAINLESS STEEL
BANDS ON A REGULAR BASIS TO
KEEP KILN ALIGNMENT
USE A FLATHEAD SCREWDRIVER
TO TIGHTEN HOSE CLAMPS
WHEN THE KILN IS WARM

VACUUM KILN TO REMOVE DUST PARTICLES & DEBRIS TO PROTECT FUTURE FIRINGS



KILN WASH APPLY SPARINGLY

KILN WASH USED ONLY ON CERAMIC SHELVES TO PROTECT THE LIFE OF THE SHELF

MIX WATER WITH WASH TO A FORM A CONSISTENCY SIMILAR TO THIN PANCAKE BATTER, BRUSH 1/16" ON SHELVES & KILN FLOOR, DRY

KILN WASH WILL BEGIN TO FLAKE OFF WHEN IT IS TIME TO RE-WASH

DO NOT APPLY TO KILN WALLS, ELEMENTS OR LID.



