

Paragon Industries, Inc.

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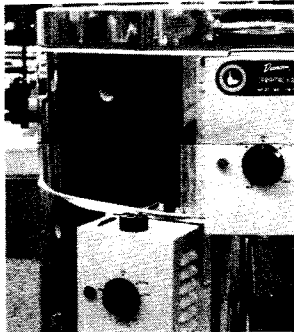
Replacement Instructions for Duncan Connecting Wires Duncan Bus Bar or U-Terminal Assembly Porcelain Insulator in a Duncan Kiln

Remove Control Panel

1 UNPLUG kiln.

2 If kiln has a collar: Remove screws on each hinge that connects collar to kiln. Lift collar to disengage interconnect. Turn the collar so the interconnect remains separated.

3 Remove the lid-venting prop. Remove screws on each side of control panel. (Kilns equipped with Kiln Sitter: Pull box straight out to avoid damaging Kiln Sitter tube.) Let control panel hang by element lead wires.



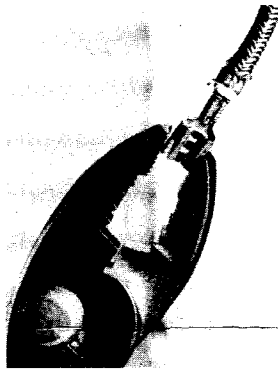
You can free the control panel for easier access to the wiring. To do this, disconnect switch-to-element wires from the switch(es).

Replace Parts

General Instructions for Replacing Connecting Wires

1 Remove the old wire and install the new one. Make sure connections are tight. If a push-on terminal does not have a snug fit, gently squeeze the end of the terminal with pliers.

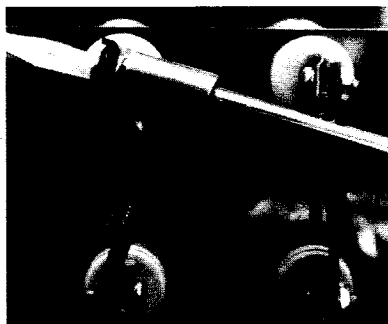
2 Reinstall control panel following instructions in next column.



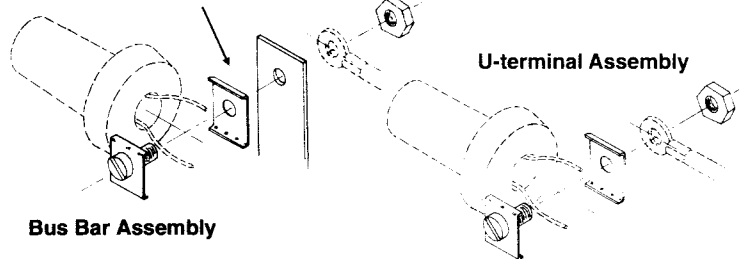
Replacing an Element Connecting Wire

1 (See diagram next column.) Using a screwdriver and a crescent wrench or a 3/8" hex nutdriver, remove the hex nut from the element connector. Be careful not to break the element end. (After elements have been fired, they are brittle and break easily.) Replace the damaged wire with a new one. Skip next step if you are also replacing corroded element connector parts.

2 Be sure the insulator is snug against the heat shield. Pull the element end toward you. Then tighten the connector. (The tighter the better.)



This U-terminal was added to the bus bar of newer kilns for easier element installation.



Bus Bar Assembly

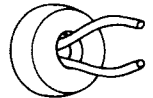
U-terminal Assembly

Replacing Element Bus Bar, U-Terminal or Porcelain Insulator

1 (See photo, bottom left column.) Loosen the hex nut and slip the terminal off the element end.

If you are replacing a bus bar or a porcelain insulator under a bus bar, loosen the bar at both ends.

If you are replacing the porcelain insulator, compress the "V" of the element end with pliers and twist off the insulator. Twist on the new insulator and spread the element ends with pliers. Remember, elements break very easily after they have been fired.



2 Install the new u-terminal or bus bar, slipping the "V" of the element between the terminal clamp and the u-terminal. Note the holes in the bus bar and u-terminal are not centered; place the widest part toward the insulator for easier installation.

3 Be sure the insulators are snug against the heat shield. Pull the element end toward you. Then tighten the connectors. (The tighter the better.)

Reinstall Control Panel

1 Reconnect switch-to-element wires to the switch(es) if they were removed.

Kilns with kiln sitter: Route the wire from the lowest U-terminal connector to the left side of the kiln sitter tube as you face the kiln.

Press all wires to the front of the control panel to avoid contact with kiln. As you move the control panel back into place, check to see that no wire touches an element connector. Wires and wire nuts must also not touch kiln's case inside the control panel. **Wires and wire nuts will burn if they touch the case, element connectors or Kiln Sitter porcelain tube.** Reinstall screws in control panel and tighten.

2 If the kiln has a collar: Return collar to the proper position. Reinstall the 4 hinge screws.

3 Kilns with a Kiln Sitter: Use a firing gauge to check Kiln Sitter adjustment before firing. (See instruction manual.)