

PAN WASHER HEATING ELEMENT

REMOVAL AND REPLACEMENT

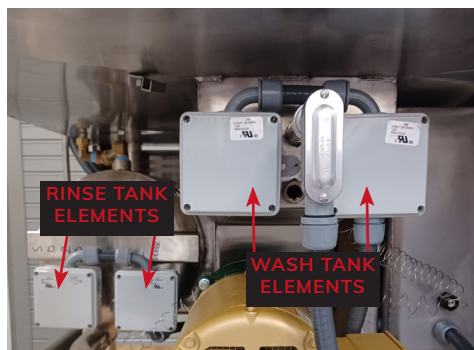


Follow all facility requirements for LOTO. Make sure the machine is drained, disconnected from power, and given sufficient time to cool down. Cut supply to the machine for all other utilities (water, gas or steam if applicable). Pull the machine out to access the side panel if necessary. Doing so may require disconnecting HVAC or other utility hookups on the equipment. **Note:** On the rinse tank if you are removing the right heating element you might have to first remove the left one to be able to access the right. If at any point you are unsure or concerned call Douglas Support.

IMPORTANT: The hex nut width on the heating element may vary. Depending on how accessible the hex nut is on your particular heating element you may be required to remove the plastic enclosure in order to remove and/or install the new element.

The additional steps to remove the plastic enclosure are highlighted in red in this guide.

REMOVAL OF HEATING ELEMENT



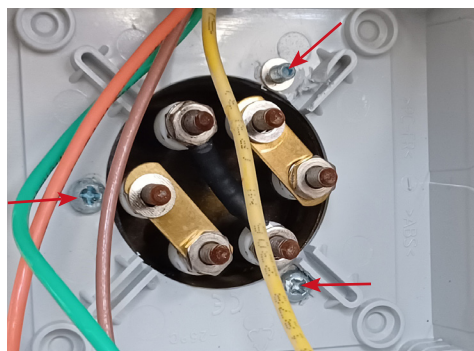
1. Ensure that the wash tank is fully drained and the power is disconnected. Gain access to heating elements by removing side access panel.



2. Remove lid and take a photo of the electrical connections to reference later. Disconnect the electrical connections and carefully move conduit.



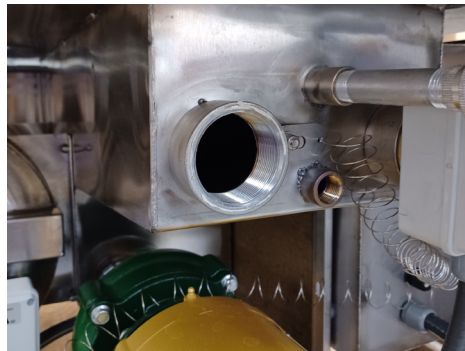
3. Carefully unscrew the heating element using the hex nut behind the plastic enclosure. **If unable to easily access the hex nut follow Steps 4 and 5 to remove the plastic enclosure.** If you are able to remove the element skip to Step 6.



4. Remove the screws from the plastic enclosure that are connecting it to the heating element. The ground connection will require an allen wrench to remove.



5. Carefully unscrew and remove the heating element using a pipe wrench or channel lock.



6. Inspect and clean debris from the opening.

PREPARING THE NEW HEATING ELEMENT



7. Test the new heating element for proper conductivity.

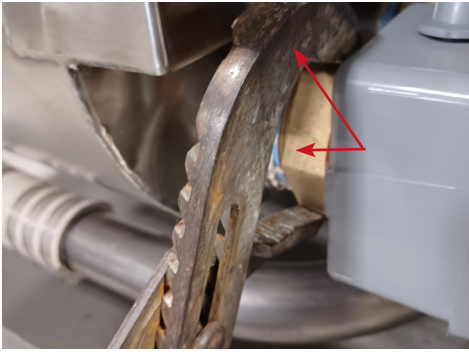


8. Apply Teflon Tape, leaving lead thread open to reduce cross threading when reinstalling.

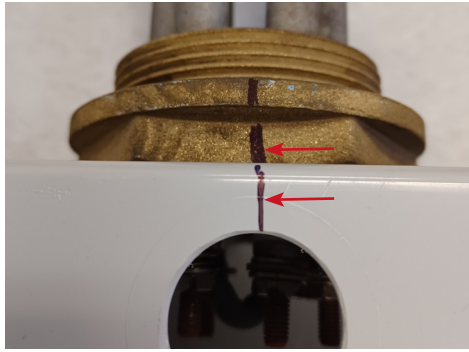


9. Apply TFE paste over tape & thread. Ready to install.

INSTALLING THE NEW HEATING ELEMENT



10. Replace heating element and carefully tighten to create seal. **If unable to easily access the hex nut with a wrench follow Steps 11 thru 15 to remove the plastic enclosure.** If you are able to attach the element skip to Step 16.



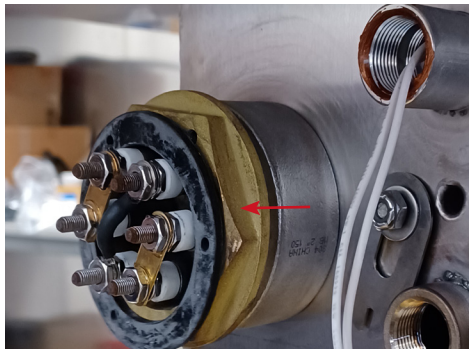
11. Before removing the screws from the plastic enclosure, mark the top of the plastic enclosure and the top of the brass hex nut with a marker. This will help to line up the element correctly so the existing conduit will fit properly.



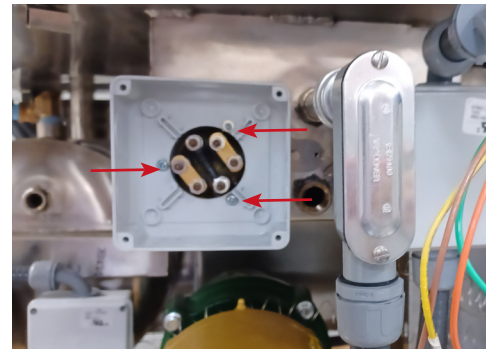
12. Remove the screws that are connecting the plastic enclosure to the heating element. The ground connection will require an allen wrench to remove.



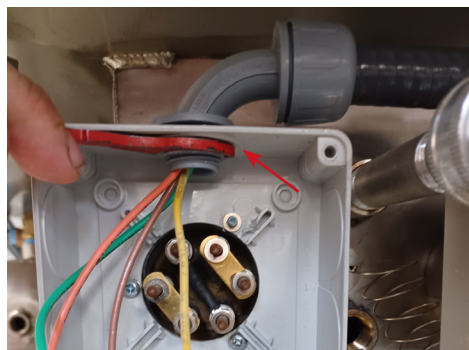
13. Carefully start by hand to screw the heating element into the tank. **Do not tighten all the way until the plastic enclosure is attached to the element.**



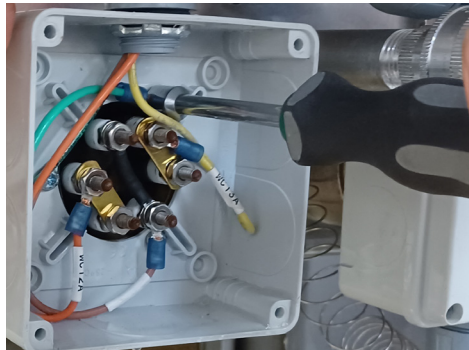
14. Place the rubber gasket on the element as shown before attaching the plastic enclosure.



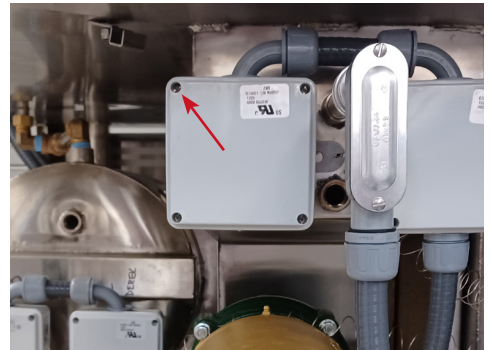
15. Using the line you marked on the hex nut and the enclosure line up the screw holes and carefully attach the plastic enclosure. The ground connection will require an allen wrench.



16. Feed the electrical wires and secure the conduit to the plastic enclosure.



17. Reconnect all the electrical connections in the proper locations.



18. Replace the enclosure lid and follow the steps below to prepare to turn the power on.

19. If water utility was disconnected from the machine fill the tank up to the overflow.

20. If replacing the element in a rinse tank, water utility will need to be reconnected and the solenoid needs to be jumped out for filling – Refer to the electrical schematic for jumping out the rinse solenoid to fill the tank.

21. Turn Main Power back on to the machine. **CAUTION THIS IS NOW A LIVE PANEL – EXPOSED TERMINALS ARE LIVE.**

22. With the water level full, take readings with a multimeter for the heating elements from inside the main electrical enclosure. Follow the panel labeling and enclosure to determine the correct wires to take a reading on (wires should have enough length to use a claw-type multimeter). Ensure amp draw is within nominal range as per the schematic located inside the machine.

23. Turn off the Main Power from the machine and secure lid on main enclosure panel. Reconnect all utilities. Congratulations, your machine is ready!

