Jackson®

Warewashing Systems

Dishmachine Maintenance Instructions

Rinse Regulating Thermostat Replacement

(From EGO brand to Stemco)

07610-003-13-91 B
March 25, 2015

Many dishmachines comes with integral booster tanks to ensure proper temperature of the final rinse. Jackson has predominantly used two manufacturers of thermostats, EGO and Stemco. These instructions are for use with kit 06401-003-13-94, which is to replace an EGO rinse regulating thermostat with a Stemco brand.

Jackson offers all of the repair parts necessary for performing this task.

The instructions provided here are for maintenance personnel only. Unauthorized persons should not attempt any of the steps contained in these instructions.

Warning: many of the instructions and steps within this document require the use of tools. Only authorized personnel should ever perform any maintenance procedure on the dishmachine!

PREPARATION

1. Power must be secured to the unit at the service breaker. Tag or lock out the service breaker to prevent accidental or unauthorized energizing of the machine.
2. Ensure that incoming water to the machine is secured either by use of a shut-off valve or disconnecting the incoming water line.
3. The unit must be drained completely with the drain stopper removed (if applicable).
4. Remove any and all access covers.

TOOLS REQUIRED

The following tools may be needed to perform this maintenance evolution:

1. 3/8” Nutdriver
2. 7/16” Combination Wrench
3. Needlenose Pliers
4. Phillipshead Screwdriver
5. Flathead Screwdriver
6. Ratchet with 1/2” Socket

TIME REQUIRED

It is estimated that it will take (1) person sixty minutes to perform this task, not including all of the items indicated in the section entitled “PREPARATION”.

IMPORTANT NOTES

1. Read these instructions thoroughly before attempting this maintenance task. Become familiar with the parts and what actions need to be taken. This will save time in the long run!
2. These instructions are shown using a Tempstar model dishmachine. However the steps provided should work for models such as the JPX-300H as well.

STEPS

1. Some models, such as the Tempstar pictured below, will require that the thermostat bracket removed from the heater. Using a ratchet, extension and 1/2” socket, remove the nuts and lock washer holding the bracket on.

Removing the thermostat bracket/heater nuts.

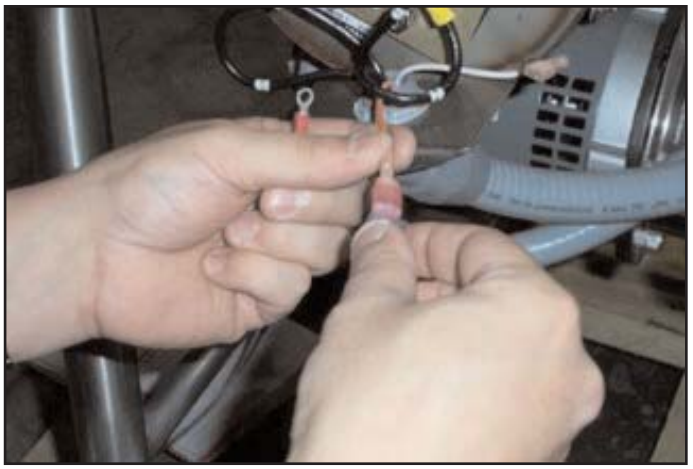
Removing the thermostat bracket.

2. With the thermostat and thermostat bracket safely out of the way, use a 7/16” combination wrench to loosen and then remove the imperial brass fitting holding the probe in.

3. Remove the wires from the old thermostat. It may be necessary to use the needlenose pliers to accomplish this.

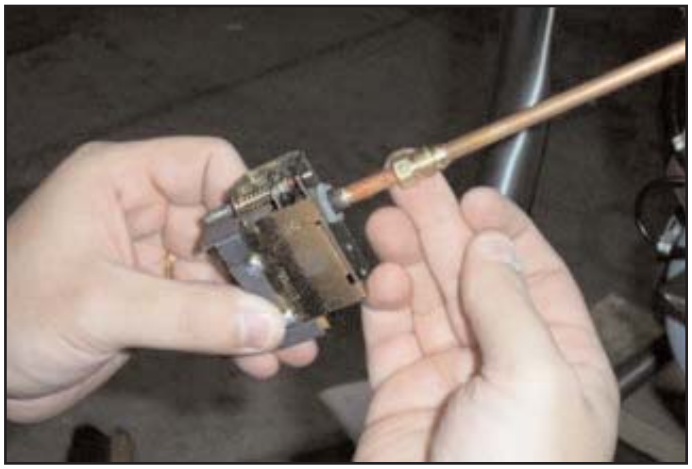
4. Remove the thermostat bracket mounting nuts with the 7/16” nutdriver.

Removing the imperial brass fitting.

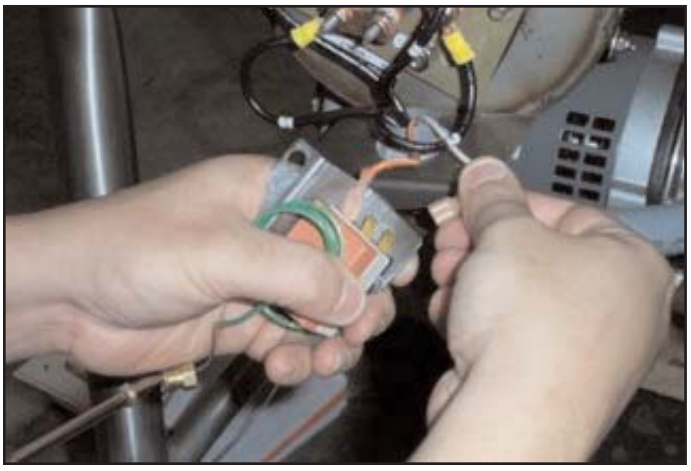


Attaching the jumper wires.

Pulling the thermostat probe and fitting from the well.



Sliding imperial fitting onto new thermostat.



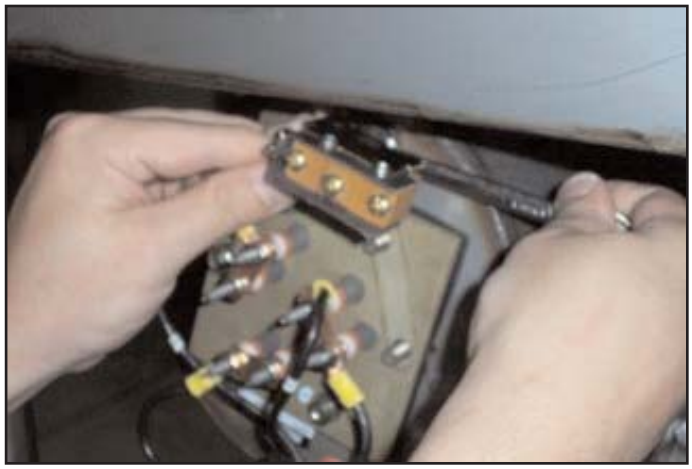
Removing the wires from the thermostat.

5. Attach the jumper wires to the wires that you removed from the old thermostat.

6. Slide the new imperial brass fitting from your kit onto the new thermostat.

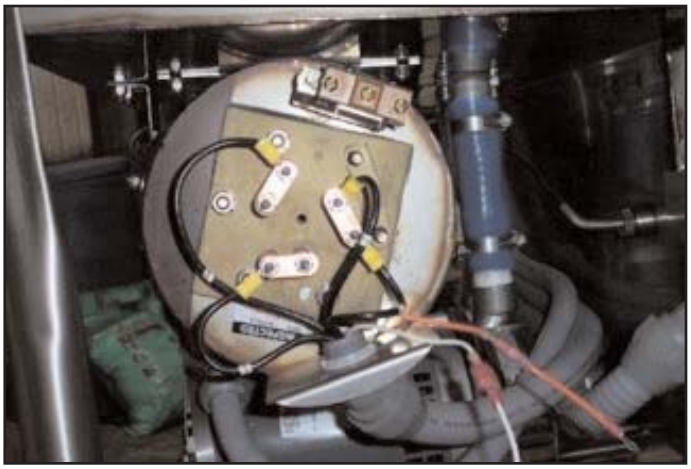
Putting the new thermostat in the well.

7. Insert the new thermostat/brass fitting combination into the well and tighten down the brass fitting by hand.



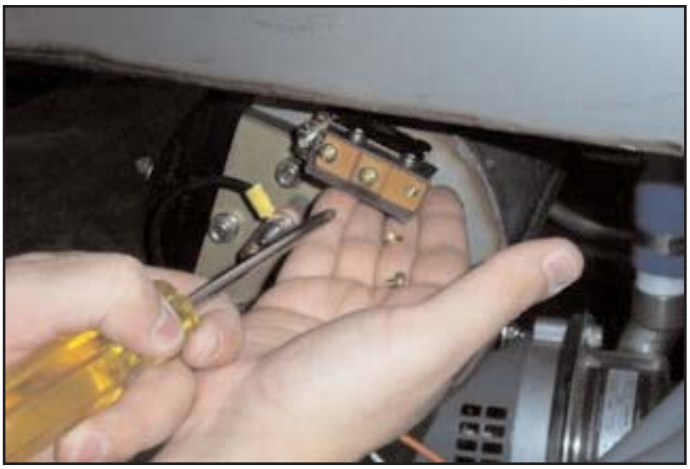
Tightening the brass fitting.

8. Use the 7/16” combination wrench to tighten down the brass fitting, while also positioning the new thermostat so that it does not hang over the heater.



What the installed thermostat should look like (Tempstar).

9. Note: regardless of the unit this is being done to, the concept is to ensure that the thermostat cannot come into contact with the heater leads or interfere with the placement of any covers.



Removing the thermostat screws.

10. Use the phillipshead screwdriver to remove the attachment screws on the thermostat for the NORMALLY CLOSED and COMMON points.

Fitting the jumper into the mounting cup.

11. Attach the ring ends of the jumpers to the cups/screws removed from the thermostat and attach them. The white jumper is to be connected to COMMON. The orange and white jumper is to be connected to NORMALLY CLOSED. Refer to your machine schematic if you have any questions regarding this.

Securing jumpers to the thermostat.

12. Once both wires are attached, ensure that there is no excess hanging out where it could become pinched by any cover or such.

13. Replace the heater nuts (if removed) and torque down as required per the technical manual. Different models may have different torque specifications. Contact Jackson Technical Service if there are any questions regarding this.

AFTER MAINTENANCE ACTIONS

Once the new thermostat is installed, it will be necesary to ensure that it operates at the required and appropriate ranges. The new thermostat has an adjustment that can be turned using a small flathead screwdriver. Several cycles will need to be run on the unit while observing the final rinse temperature. The thermostat needs to cycle so that the final rinse water meets the indicated minimums

on the machine data plate for every cycle.

Calibrating the new thermostat.

SPECIAL NOTES

Work performed on Jackson dishmachines by unauthorized or unqualified personnel may void the warranty. Before beginning this or any other maintenance evolution on a unit under warranty, you should contact a certified Jackson technician or Jackson Technical Service. You can find a list of qualified service agencies in the back of you unit's installation manual.

SPECIAL PARTS

Thermostat Replacement Kit: 6401-003-13-94*

*The kit contains a thermostat, imperial brass fitting, jumper wires and instructions.

CONTACT INFORMATION

Jackson MSC Inc. provides technical support for all of the dishmachines detailed in this manual. We strongly recommend that you refer to this manual before making a call to our technical support staff. Please have this manual with you when you call so that our staff can refer you, if necessary, to the proper page. Technical support is available from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Technical support is not available on holidays. Contact technical support toll free at 1-888-800-5672. Please remember that technical support is available for service personnel only.