



**Rack Conveyor Dishmachine  
Maintenance Instructions**

# **Motor Assembly Replacement**

---

## MAINTENANCE INSTRUCTIONS

### REPLACING CONVEYOR MOTOR

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. Ensure that the dishmachine has been completely drained of water and has been allowed to cool down prior to beginning this maintenance procedure.

### TOOLS REQUIRED

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

1. 7/16" socket and ratchet with extension
2. 9/16" socket and ratchet with extension
3. 5/16" Allen wrench
4. 5/16" nutdriver
5. Large flathead screwdriver
6. Small flathead screwdriver

### TIME REQUIRED

It is estimated that it will take (1) person one and a half hours 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 procedure. Become familiar with the parts and what actions need to be taken. This will save time in the long run!

2. The procedures demonstrated in this manual are shown being performed on an AJ-44 rack conveyor dishmachine. The actual maintenance steps, however, apply to any wash, prewash or power rinse motor found on a Jackson rack conveyor dishmachine.

3. These basic instructions will apply to all prewash, wash and power rinse motors found on AJ, TS and TSC series machines.

### STEPS

1. Remove the (4) nuts holding the mounting plate in position.



Removing the mounting plate nuts with the 9/16" socket

2. Loosen the band clamp on the back end of the motor.

3. With the band clamp loosened, carefully remove it from the back end of the motor. Once the clamp is removed, examine it to determine if it needs to be replaced as well. If it is broken in any spots or shows signs of metal fatigue, it is best to order a new one. The purpose of the clamp and the attached support bracket is to keep the weight of the motor from pulling on the tub, damaging it. It is absolutely necessary that this component be replaced once the maintenance procedure is completed.



Loosening the band clamp on the back end of the motor.

---

## MAINTENANCE INSTRUCTIONS

### REPLACING CONVEYOR MOTOR



Removing the rear clamp

4. Remove the motor support bracket.



Removing the motor support bracket

5. With the motor support bracket removed, gently pull back on the motor. You may have to move it from side to side, but it should start to move back. Pull it completely away from the mounting studs on the tub and set down gently to work on it.

6. Remove the gasket from the tub.

7. Use a screwdriver to remove the wiring cover from the motor wiring box. Take note of how the motor is wired up because you will have to wire it up the exact same way when you install the new motor.

8. Remove the conduit fitting from the motor wiring box.

9. Pull the conduit away from the motor and set old motor to the side. Dispose of the old motor in accordance with warranty or national/state/local guidelines, whichever may apply.



Removing the pump gasket

10. Remove the wiring cover on the new motor assembly and pull the wires free. Install the conduit fitting.

11. Run the conduit to the motor, pulling the machine wires through and into the motor wiring box.

12. Rewire the motor exactly the same way the old one was wired and/or refer to the motor schematic to determine how the motor should be wired for the incoming power. If you require help on this, do not hesitate to contact Jackson Technical Service. Ensure that all wiring is done in accordance with national, state and local codes as applicable.



Remounting the wash motor assembly

13. Place the new motor gasket on the tub over the mounting studs.

14. Carefully lift the motor assembly and slide it onto the mounting studs.

15. Re-install the mounting hardware and tighten down.

---

## MAINTENANCE INSTRUCTIONS

### REPLACING CONVEYOR MOTOR

16. Attach the motor support rear clamp.
17. Adjust the motor support bracket so that the motor assembly is level and tighten down.
18. Attach the motor wiring cover.

### AFTER MAINTENANCE ACTIONS

Reconnect the incoming water (if disconnected) and turn on. Then restore power to the unit. Run the unit for at least 10 minutes to ensure there are no leaks. If you hear any grinding sounds while the motor is running, immediately shut off the unit and secure power and water. There is a serious problem that must be addressed. If any problems arise you can contact Jackson Technical Service.

### 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

Bracket, Motor Support  
05700-021-73-42

Clamp, Motor Support  
04730-002-32-15

### 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.