

Wascomat / Aqua Clean

461 Doughty Boulevard, PO Box 960338, Inwood, NY 11096-0338



TECHNICAL INFORMATION

TI-1066

SERVICING EXTRACT-O-MATIC P12 MOTOR NUMBER A8055592.

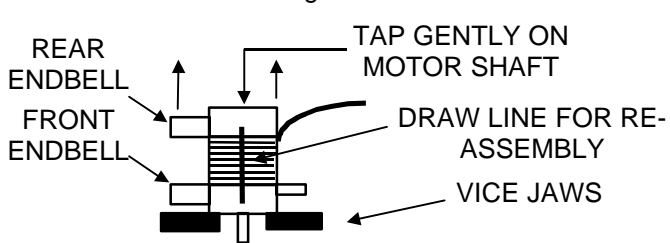
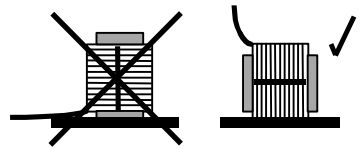
WARNING: THESE TECHNICAL INSTRUCTIONS ARE INTENDED TO ASSIST QUALIFIED, EXPERIENCED SERVICE PERSONNEL ONLY! IMPROPER SERVICING OF MACHINERY MAY RESULT IN HAZARDOUS CONDITIONS, PERSONAL INJURY, AND LOSS OF LIFE OR PROPERTY. PERSONS NOT TRAINED, AND PERSONS UNFAMILIAR WITH WASCOMAT LAUNDRY MACHINES, SHOULD REFER SERVICING TO QUALIFIED PERSONNEL.

MACHINES AFFECTED: Extract-O-Matic P-12

PARTS REQUIRED: 2 - A0002024 Motor Brush
OR 1 - A8800877 Brush holder w / brushes.

AND 2 - A8800708 Bearings

INSTRUCTIONS:

1. **DISCONNECT ELECTRICAL POWER FROM THE MACHINE.**
2. Remove the rear panel of the machine and dismount the motor. Inspect the motor harness connector for signs of corrosion or overheating (discoloration, burnt contacts). Repair as necessary.
3. Remove the screw which secures the motor harness cable clamp to the rear endbell of the motor.
4. Locate the two screws nearest the center on the non-drive-end endbell of the motor. Mark the position of these two screw in the endbell slots for re-assembly.
5. Remove the two screws located and marked in step 4. **These secure the brush assembly to the inside of the end-bell and MUST be re-installed in the same position in the endbell slots!.**
6. Use a permanent magic marker to mark the motor with a line down one side, from one endbell to the other. This insures proper orientation of parts during re-assembly.
7. Rest the motor on the rear end-bell and remove the four long screws which hold the motor together.
8. Turn the motor over and rest it on top of a bench vise, as shown. Carefully remove the rear endbell, leaving the brush assembly on the rotor commutator. Tap gently on the rotor shaft at the center of the rear endbell, if necessary.
9. Remove the two quick-connect wires from the terminals on the brush assembly. Remove the brush assembly from the motor commutator.
10. Carefully remove the rotor. If necessary, to help free the bearing from the front endbell, use a rubber mallet to gently tap on the pulley-end of the rotor shaft.
11. Lift the stator from the front endbell. **NEVER SET THE STATOR DOWN ON ITS WINDINGS!** Rest the stator on the bench-top, on its side (steel core contacting the bench), as shown.
12. Using a rag, dampened with contact cleaning solvent, clean and inspect all motor parts (**NEVER SPRAY SOLVENT OF ANY KIND DIRECTLY ON MOTOR BEARINGS!**). Inspect endbell bearing wells and bearings for signs of discoloration due to overheating or rotation of outer bearing races in the endbells. Check that bearings rotate freely and smoothly. Check rotor for signs of scraping against stator. Check rotor commutator for signs of severe wear, gouging or arcing. Check for

damaged or missing rotor cooling fins. Examine the brush holder and brushes for excessive wear, broken electrical wires or broken springs. Check the plastic brush mounting ring for cracks.

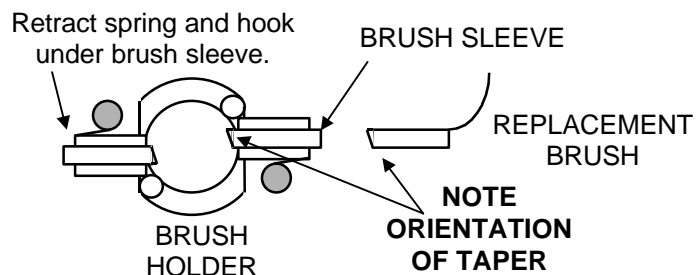
13. Line up the mark made earlier and place the stator Back onto the front end-bell, with the brush connection leads and motor harness up.
14. Using a small puller, remove the pulley from the rotor shaft, then remove and discard the bearings.
15. Install one new bearing onto each end of the rotor shaft, supporting the opposite end of the shaft while fully seating the bearing. Use a bearing anvil of the proper size, so as to apply seating force to the bearing's inner race only.
16. Place the thrust spring in the front endbell bearing well. Insert the rotor, pulley down, into the stator so that the front bearing comes to rest on the thrust spring.
17. Retract the 2 brush coil springs on the brush holder, and hook the end of each spring under the back of the brass brush sleeve.

IF INSTALLING NEW BRUSHES (A0002024), CONTINUE WITH STEP 14.

IF INSTALLING BRUSH HOLDER AND BRUSHES (A8800877). CONTINUE WITH STEP 16.

14. Cut the old brush wires as close as possible to the point where they are brazed to the brass brush sleeve. Remove and discard the old brushes.

15. Insert a replacement brush into each brush sleeve, insuring that the tapered face of the new brush angles the same way as the front end of the brass brush sleeve.



16. Push the brushes back into the brass brush sleeves and place the brush holder over the exposed end of the motor rotor so that the brushes are aligned with the commutator. Release the coil springs from under the brush holder to apply pressure to the brushes.
17. Connect the two brush leads to the brush sleeve terminals. If only the brushes were replaced, the new brush wires must be soldered to the female spade connectors on the brush leads which come from the stator. **IT IS NOT POSSIBLE TO SOLDER THE BRUSH WIRES TO THE BRASS BRUSH SLEEVES.**
18. Align the mark made earlier and replace the rear endbell, making certain that the motor harness passes through the opening provided. During assembly, check to see that the rear bearing slips into the endbell bearing well, and that the two screw holes in the brush holder are visible through the slots in the rear endbell.
19. Checking alignment of the line made down the side of the motor prior to disassembly, insert and gently tighten the four long screws which hold the motor together.
20. Install the two brush holder screws through the rear endbell. Align these screws with the marks made before disassembly, and tighten. Check to see that the rotor turns with only minor resistance from the brushes.
21. Alternating between the motor-body screws, tighten gradually until all 4 are secure. During the tightening process, check frequently to see that the rotor turns freely.
22. Re-install the motor harness cable clamp.
23. Re-install and test the motor.

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