

## Repair Wash Pump

### Remove spray Arm

1. Remove tower by turning off counterclockwise from spray arm.
2. Remove 3/8" nut holding arm to diffuser.

### Remove diffuser

Remove diffuser by removing 4 5/16" bolts holding diffuser to sump plate



### Remove Upper Wash Impeller

Upper wash impeller is held in place by 1- T-25 Torx screw.



Remove macerator blade from shaft.



Remove pump housing cover

Remove pump slinger



### Remove volute cover

Remove volute cover held in by 2 T-20 Torx screws.



### Remove lower pump impeller



### Remove carbon face half of pump seal



### Remove Sump

Complete motor and pump must be removed to replace sump.

1. Disassemble pump as listed above.
2. Remove three 5/16" bolts holding motor to sump and remove motor.

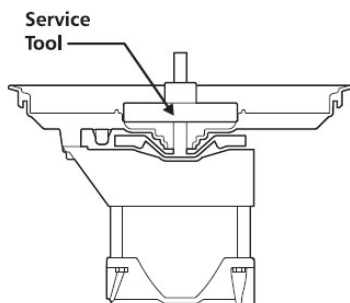


Motor Mounting Screws

### Motor to Sump Installation

Installation of motor to pump housing requires centering of motor shaft using service tool P/N 154384901.

Place pump housing on top of motor shaft lining up the screw hole of motor top end shield to embosses on pump housing. ( Make sure the motor plug is facing towards you and the drain pump port is at the right side to install correctly.) Now place service tool over top of motor shaft and slide service tool down into pump housing to center motor shaft to pump housing. Install mounting screws for motor to pump housing. Remove service tool and then complete rest of installation of other parts to assemble motor.



### Motor Shaft Seal

Motor shaft seal will come mounted on a sleeve; this is to protect the seal surfaces. This sleeve must be removed to install the new seal.



1. Check seal faces to be sure they are both clean and free of any foreign material.
2. Install ceramic half of seal into sump, making sure it bottoms out in sump.
3. Slide top half of seal onto motor shaft making sure it is down and tight and the surfaces are mating properly.

### Install sump gasket

1. Turn sump up side down.
2. Find notch on inside of gasket and line notch up with solid area beside drain port.
3. **Do not apply any lubricant to inside of gasket.** Place gasket onto sump, making sure flange on gasket goes into sump channel. See cut away.
4. Apply lubricant to tub to aid installing sump.



### To Check Motor

The motor on the dishwasher is a dual directional motor.

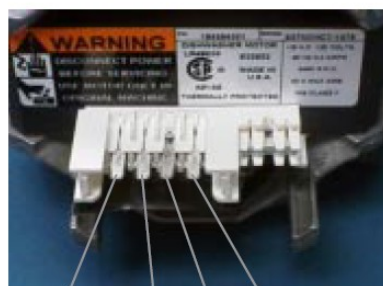
1. Disconnect power from dishwasher.
2. Remove access panel.
3. Remove wiring disconnect plug from motor.
4. With motor unplugged, check resistance on each motor winding. See chart below for correct readings.

**To Check Main Run Winding**, place one lead of ohmmeter on terminal on far right of motor plug and second lead from ohmmeter on next terminal to left.

**To Check wash start winding**, place one lead of ohmmeter on terminal on far-left side of motor plug. Place second lead from ohmmeter on third terminal to right.

**To Check drain start winding**, place one ohmmeter lead on each of the two center terminals on motor plug.

Motor Winding	Resistance	Wire Colors
Main Run Winding	6.0 Ohms	Blue & White
Wash Start Winding	6.4 Ohms	Blue/Black & White
Drain Start Winding	6.4 Ohms	Blue/Red & White



Blue/Black White Blue  
Blue/Red