American Dish Service™
Manufacturers of Ware Washing Equipment

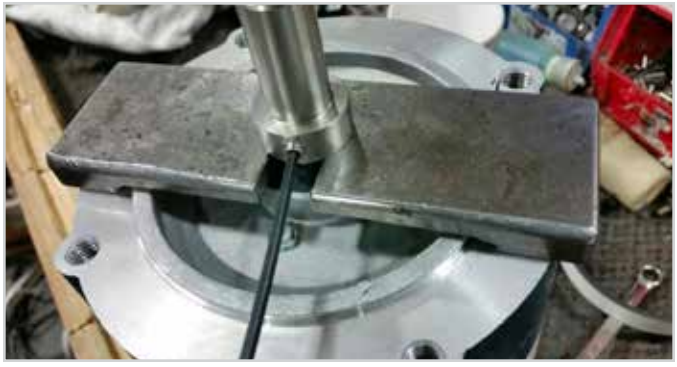
TECHNICAL SUPPORT MATERIAL

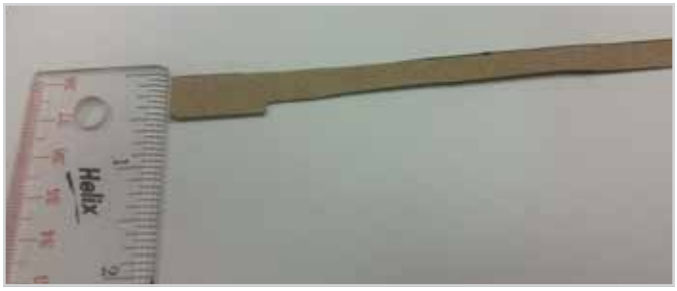
Installing ADC-44 Rinse Pump Motor

The rinse pump (291-1003 3-ph) and (291-1007 single-ph) 1/3hp motors use an auxiliary pump shaft (284-6163) that attaches to the keyed motor shaft. It is held in place by a set screw which tightens into the key using an Allen wrench.

The shaft must be adjusted to the proper height on the motor for the pump to work correctly. The auxiliary shaft is 2.38" long. The large boss on the end of the aux shaft must be tightened to the motor shaft at .498" from the flat of the motor endbell.

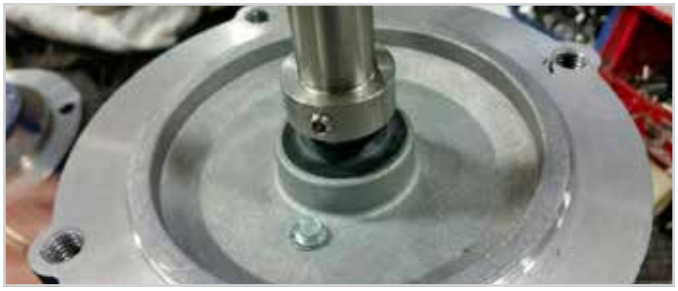
At the factory, a machined gauge is used to set up the distance.





In the field, a gauge can be made by cutting a template from cardboard and use it to mark the shaft.

Move shaft towards the motor until it covers the mark.



Now with the aux shaft attached, place the pump housing (282-6307) to the motor.

Then place the ceramic half of the seal in the housing, use soap to lubricate and press in to the bottom. The groove side will face down or towards the motor side.

Place the black graphite half on the shaft and press until it is touching the white ceramic half. Use soap to lubricate the inside of the black rubber half. Be careful with this operation, the ceramic portion is glass and can break when blows are laid against parts of the pump.

Then twist the impeller to the right as looking at it from this picture, when it seats hand tight, place the secure bolt and washer (098-1443, 098-2413) in the end of the shaft and tighten.

The pump in now ready to attach to the pump cover using a gasket (289-6609) to seal. The impeller should stand off the pump cover's inner face approx 0.0625"

Electrical Power: When applying power to a new 3-phase motor for the first time, there is a 50/50 chance of the rotation being correct. Looking at the picture of the impeller above, the correct rotation from this view is counter-clock wise or turning to the left. I know it looks like it should go the other direction but that is incorrect. If the motor is spinning to the right there will be little or no spray out of the upper arm. Correct spray pattern is fan sprays from the top and lower sprays raise about 4-6" above the arm. Switch any two of the three wires going to the motor to reverse rotation. Single-phase has not rotational issue.

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Rev 1.1