

# Ruth-Berry

## Jet Pumps

### Impeller Kits

Replacement Kits for Field Repair

#### Installation Instructions

1. Remove all impellers, diverters, shims and the spring portion of the seal.
2. Be sure the mounting surface of the motor bracket is clean and smooth.
3. Install impeller No. 1 (See kits listed below) on the shaft, making sure the impeller is as far down as it will go, and check clearance with the gauge supplied in the kit. The narrow end (**GO**) of the gauge should fit in-between the mounting surface of the motor bracket and impeller. The wide end (**NO GO**) should fit under the impeller (See Figure 1).
  - 3A. If the clearance is too small for the "**GO**" gauge, remove impeller from shaft and install one of the shims supplied with the kit. Repeat the procedure described above until the space in-between the mounting surface of the motor bracket and impeller is at the proper clearance (**GO** gauge side only fitting under impeller).
4. After the No. 1 impeller is properly shimmed, remove it and the shims. Replace the spring portion of the seal, then 1st shims and the No. 1 impeller (Figure 2).

#### For Two-Stage Pumps

5. Place one 1/32" shim above No. 1 impeller, and put on 1st diverter, making sure it is down properly and bolt holes are aligned with bracket. Add No. 2 impeller, large washer and nut. Grip the shaft next to the motor with water pump pliers and tighten to 15½ ft./lbs. torque.\*\*

#### For Three-Stage Pumps

5. Place one 1/32" shim above No. 1 impeller and put on 1st diverter, making sure it is down properly and bolt holes are aligned with bracket. Add No. 2 impeller, one 1/32" shim and center diverter (again aligning holes). Add no. 3 impeller, large washer and nut. Grip the shaft next to the motor with water pump pliers and tighten to 15½ ft./lbs. torque.\*\* Add last diverter, align holes, and bolt diverters to bracket.

\*\* If a torque wrench is not available, use a 6" long ratchet and a deep set 5/8 hex socket. Put 30 lbs. of pull on the wrench (equivalent to lifting 30 lbs. of weight).

Or,

Use a 12" long ratchet and a deep set 5/8 hex socket. Put 15 lbs. of pull on the wrench (equivalent to lifting 15 lbs. of weight).

See illustrations on the back of this page for Figures 1 and 2.

for Pump Model	Stage
FP2D	2
JP2D	2
KP2D	2
LP2D	2
LP3D	3
MP3D	3

Note: The above Impeller Kits are no longer available and this information is for information only.  
The GO-No Go gauge is no longer available, the Go side was 3/16" Thick.

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