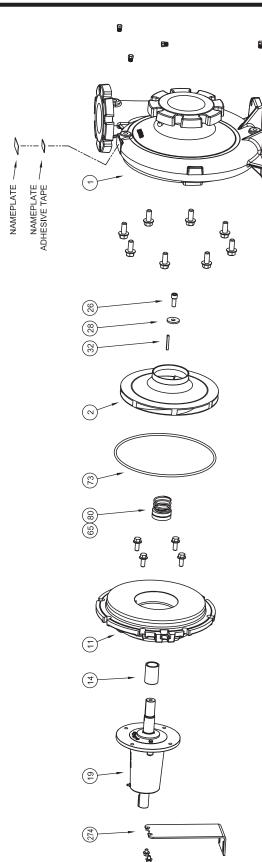
Kit Assembly Instructions

WEINMAN[®]

Back Pull Out Form No. 135963 Rev. A

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- 6. Install the impeller (2) with shaft key (32), washer (28) and impeller screw (26). Torque the screw to the torque specified (see Table 1).
- 7. Bolt the case (1) onto the adapter (11). Use a crossing pattern to tighten the bolts to the torque specified (see Table 1).

Bolt the adapter (11) onto the bearing frame assembly (or motor). Use a crossing pattern to tighten the bolts

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Begin by securing the bearing frame assembly (19) (or motor, if a close coupled pump) to the workbench,

as the pump will be built onto this component.

- Attach the bearing support bracket (274) to the back of the bearing frame assembly. Torque the fasteners as specified (see Table 1).
- Add GPM, Head and Impeller Diameter to the supplied nameplate then attach to the casing (1) boss.
- 4. Place Loctite, RC 609, onto the inside diameter of the shaft sleeve (14) and slip it onto the shaft, tight against the shaft shoulder.

Place the o-ring (73) onto the adapter.

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to the torque specified (see Table 1).

5. Install the mechanical seal (65)(80) following the instructions (see Table 1).



A Crane Co. Company

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INSTALLING A NEW MECHANICAL SEAL

CAUTION: this seal is a precision product and should be handled accordingly. Be especially careful not to scratch or chip the lapped sealing faces of the washer and floating seat. If reinstalling a used seal, both sealing faces should be relapped.

INSTALLING STATIONARY ELEMENT

The seat must be seated securely in the seat ring with the lapped face out. The *unlapped* face is marked and correctly assembled when shipped. Lubiricate the seat ring gasket and seat it firmly and squarely. *NOTE: DO NOT USE PETROLEUM BASED PRODUCTS TO LUBRICATE EPT OR EPDM ELASTOMERS - USE ONLY WATER BASED LUBRICANT.* If this cannot be done with the fingers, use a sleeve as shown in Fig.6, inserting

the cardboard shipping disc between the sleeve and the lapped face to prevent scratching sealing face.

INSTALLING ROTATING ELEMENT

Lubricate shaft with International Products P-80® or rubbing alcohol. NOTE: DO NOT USE PETROLEUM

BASED PRODUCTS TO LUBRICATE EPT OR EPDM ELASTOMERS - USE ONLY WATER BASED LUBRICANT. Shaft should be clean. Slide seal body on shaft (rotating face end, first) and seat firmly. A sleeve as shown in Fig. 7 will facilitate this operation and prevent the rubber driving ring from pulling out of place as the seal body is slid along the shaft. Assembly of impeller automatically sets seal in proper position.

Make sure at all times, and particularly before final assembly, that both sealing faces are absolutely clean. Torque the impeller bolt and all other fasteners per the bolt torque table.

BEARING LUBRICATION:

Standard pumps are supplied with sealed, greased for life bearings. If pump is equipped with optional regreaseable bearings a #2 grease is recommended. Use a water resistant, nonfiberous grease. Lithium based greases are excellent (standard factory lube) and Molybdenum Disulfide is acceptable. Approximately 1/2 ounce of grease, or a teaspoonful for bearings of small size, and a tablespoonful for larger sizes, is needed each time a bearing is relubricated.

BOLT TORQUE TABLE			
APPLICATION	FASTNER SIZE	HEAD STYLE	TORQUE (ft. lb.)
Bearing Frame Cap/Bearing Frame	3/8-16x.875 1/4-20x.625	Hex Hex	31 8.4
Adapter/Motor-Bearing Frame	5/8-11x1.50 1/2-13x1.25 3/8-16x1.00	Hex Hex Hex	150 75 31
Impeller Bolt	1/2-13x1.25 3/8-16x1.00	Socket Socket	75 31
Adapter/Case	5/8-11x1.50 3/8-16x1.25 3/8-16x1.00	Hex Hex Hex	150 31 31
Frame Foot/ Bearing Frame	3/8-16x.50	Hex	31
Drain Plug	1/4" NPT	Hex	18
Grease Fittings (Optional)	1/8" NPT	Hex	9
Pump Case/Base	1/2-13x1.25	Hex	57
Bearing Frame Foot/Base	3/8-16x1.00	Hex	23
Motor/Riser	1/2-13x2.00 3/8-16x2.00 5/16-18x1.25	Hex	57 23 13
Motor Riser/Base	3/8-16x1.00	Hex	23
Guard/Base	3/8-16x1.00	Hex	23

Table 1



PUMPS & SYSTEMS