

4030 BEARING HOUSING | INSTALLATION AND OPERATING INSTRUCTIONS

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CAUTION



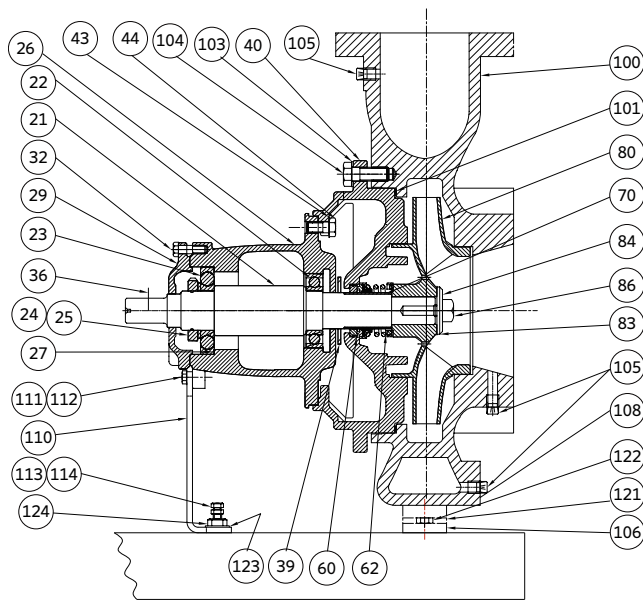
Always disconnect power supply from motor before beginning service work.

WARNING:



Whenever any service work is to be performed on a pumping unit, disconnect the power source to the driver, **LOCK** it **OFF** and tag with the reason. Any possibility of the unit starting while being serviced must be eliminated.

Procedure to install the bearing housing to the pump



ITEM	DESCRIPTION
21	Shaft
22	Bearing (Inboard)
23	Bearing (Outboard)
24	Lockwasher
25	Lock Nut
26	Bearing Housing
27	Snap Ring
29	Cap (O/B)
32	Capscrew Hex Hd.
36	Key Woodruff
39	Water Slinger
40	Adapter
43	Washer

ITEM	DESCRIPTION
44	Capscrew Hex Hd.
60	Seat
62	Mechanical Seal
70	Shaft Sleeve
80	Impeller
83	Washer Impeller
84	Lockwasher (when fitted)
86	Capscrew Hex Hd.
100	Casing
101	Gasket
103	Washer
104	Capscrew Hex Hd.
105	Pipe plug
106	Support foot
108	Capscrew
110	Support foot (casing)
111	Washer
112	Capscrew Hex Hd.
113	Nut jam (when fitted)
114	Capscrew (when fitted)
121	Washer
122	Capscrew Hex Hd.
123	Washer
124	Capscrew Hex Hd.

- Clean the shaft sleeve surface, ensuring the entire former seal elastomeric residue has been removed. Inspect for damage and replace if necessary. (See separate instructions, **FILE NO. 6042.25**, for removal of the motor shaft sleeve). Inspect the water slinger and replace if damaged.
- Make separate sub assembly of bearing housing, Adapter, seal, Impeller and bearing support & fasten to the bearing housing.
- Fasten the adapter to bearing housing.
- Add seal to the shaft.
- Insert impeller.
- Fasten the impeller to the shaft using washer & impeller bolt.
- Add casing gasket to the casing.
- Lift the sub assembly carefully & fasten with casing.
- Fasten the bearing support to base.
- Rotate the shaft and check for miss alignment if any.
- Observe if any undesired noises are coming from the assembly by rotating the shaft.
- Reconnect power and resume normal operations.

SYMPTOMS	REASONS
Bearings overheat	<ul style="list-style-type: none"> • Misalignment. • Insufficient cooling to stuffing box. • Badly packed stuffing box. • Misalignment of pipework. • Dirt in bearings. • Bearings too tight. • Bearings badly installed.
Low bearing life	<ul style="list-style-type: none"> • Misalignment. • Dirt in bearings. • Bearings too tight. • Bearings badly installed. • Misalignment of pipework. • Rotating element out of balance. • Shaft bent.

Lubrication

Pump

Sealed Grease Bearings

- If the pump is fitted with greased lubricated bearings, no external lubrication is required.
- These bearings are custom greased for general service applications and sealed.

Oil Lubricated Bearings

- If the pump is fitted with oil lubricated bearings; use a non-detergent oil equal to No.10 motor oil.
- Prior to start up check to make sure the oil level is visible in the sight glass.
- Under normal operating conditions the oil should be changed every year or 3000 hours as follows:
 - 1 Drain the oil from the old bearing bracket.
 - 2 Thoroughly flush the bearing bracket with Kerosene.
 - 3 Refill the oil through the vent on top of the bracket until the oil level is visible in the middle of the sight glass.

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