

Removal

Removal of Outer Bearing Cap

1. Make sure to remove any coupling hub and/or drive device from the pump shaft.
2. Loosen the Set screws on the Outer bearing cap so it can turn freely.
3. Loosen and remove the M10 Hex Head Cap Screws that hold the Inner Bearing Cap to the Outer Bearing Cap.
4. Slide the Inner Bearing Cap down the shaft exposing one side of the bearing assembly.
5. Rotate the Outer Bearing Cap (counter clockwise) using a spanner wrench to loosen it from the bracket.

CAUTION!

Make sure that you provide support while loosening the Outer Bearing Cap to prevent it from falling and potentially causing damage to itself or the shaft. Take care not to harm any bearing isolators that may be present.

Removal of Bearing

1. Loosen the Set screw on the bearing locknut.
2. Loosen and Remove the bearing locknut with a spanner wrench.

Note: To stop the whole shaft from turning during this process, you can use a shaft coupling hub on the drive shaft to secure it. If you don't have that, you can use a soft metal piece, like aluminum or brass, to wedge between the rotor and idler gear to keep the shaft still.

3. Remove the Bearing Spacer from the Shaft.
4. Gently pull the Inner race of the bearing. Use a bearing puller if needed to help apply force to the Inner Bearing Spacer.

CAUTION!

Be careful when the bearing shifts away from the bearing seat to avoid harming the bearing or shaft.

Installation

Installation of Bearing

1. Slide in the Inner Bearing Cap over the shaft past the shoulder.

CAUTION!

Avoid damaging any bearing isolators that may be present.

2. Place the Bearing Spacer over the shaft and move it axially until it stops at the shaft shoulder.
3. Place the outer race assembly over the shaft and push it back past the shaft shoulder.

Note: Make sure that it is aligned in the proper direction when the bearing is fully assembled.

4. Press/install the inner races of the bearing onto the shaft.
5. Apply a multi-purpose lithium grease NLGI #2 or a similar product to the bearing surfaces to ensure proper lubrication during operation.

Installation of Outer Bearing Cap

1. Slide on the Bearing Spacer past the shaft threads and up against the bearing.

Note: To stop the whole shaft from turning during this process, you can use a shaft coupling hub on the drive shaft to secure it. If you don't have that, you can use a soft metal piece, like aluminum or brass, to wedge between the rotor and idler gear to keep the shaft still.

2. Thread the bearing locknut onto the shaft and snug it up against the bearing spacer. Torque the locknut to 370 Nm. Then tighten the Locknut Set screw to 35 Nm.
3. Place Outer Bearing Cap over the shaft. Align the thread to the ones in the bearing carrier and begin to thread on the Outer Bearing Cap.

CAUTION!

Avoid damaging any bearing isolators that may be present.

4. Tighten the inner bearing cap to the outer bearing cap. This will finish connecting the rotor to the bearing cap assembly.

Note: . If you turn the outer bearing cap in, the shaft/rotor moves closer to the cover. If you turn it out (counter-clockwise), the shaft/rotor moves away from the cover. This will help in adjusting the end clearance. Use Spanner G1200UU506.

5. Set the end clearance per TPC 300.

