



Hydraulic Vibrators

Seal and Bearing Assembly

SEAL AND BEARING ASSEMBLY

1. Bearing assembly:
 - a. Place the bearings on to the rotor shaft, with a shim between the each bearing.
 - b. Assemble the spacers, nuts and drivers on the rotor and tighten.



2. Replace the seals in the motor:
 - a. Remove the lock ring.
 - b. Grease the seating bullet.
 - c. Slide the seal on the bullet.
 - d. Press the seal into the motor. Make sure the seal is fully pressed in.
 - e. Replace the lock ring.



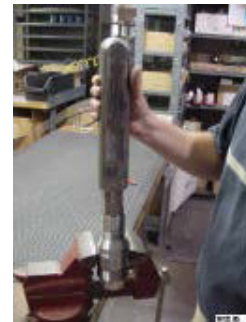
3. Assemble the bearing cup:
 - a. Slide the bearing cup over the bearings at the driver.
 - b. Grease the smaller driver down to the drive sleeve.



4. Insert the rotor assembly:
 - a. Turn the rotor assembly upside down.
 - b. Line up the driver with the motor tang.
 - c. Slide the assembly down until the driver is fully engaged with the motor tang.
 - d. Turn the rotor and listen for the motor gears turning.



5. Housing over assembly:
 - a. Slide the housing over the bearings until it reaches the threads.
 - b. Apply Permatex to the threads.
 - c. Turn the housing until it is fully tightened.



VIBRATOR TEST PARAMETERS

Pressure	≈ 850 psi (at 4 gpm), plus the back pressure value of hydraulic system
Flow	Test at 4 gpm (15.14 lpm)
Temperature	140° F (60° C)
Vibrator Speed	At these settings, the vibrators should run at 10,500...11,000 vpm



Badger Meter

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Quick Reference Guide

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