

GROVE GEAR
ELECTRA-GEAR

INSTRUCTION MANUAL



Maintenance Instructions

Your Grove Gear reducer has been tested and adjusted at the factory. Dismantling or replacement of components must be done by Grove Gear to maintain the warranty.

LeCentric™ reducers are lubed-for-life and do not require regularly scheduled oil changes/checks. However, if the reducer is used in a severe environment, it is recommended that the oil is checked or changed every 6000 hrs. or after 2 years of operation. If the oil level is low, (refer to Figure 1 for mounting positions) add proper lubrication through the filler plug.

If seal leakage has resulted in the loss of a significant amount of oil, it may be necessary to add more lubricant. For normal ambient temperature conditions, Grove Gear recommends Mobil PAG 460 or equivalent oil for all LeCentric™ reducers.

CAUTION Mounting bolts should be routinely checked to ensure that the unit is firmly anchored for proper operation.

Seal Replacement: The LeCentric™ line of speed reducers utilize premium quality seals which are the state-of-the-art in sealing technology. Seals are, however, a wear item and eventually need to be replaced. Replacement can be easily accomplished by following the steps below:

CAUTION 1. Lock out and tag out the reducer's power source.

CAUTION 2. Remove any load from the input and/or output shafts of the reducer prior to disconnecting any drive components.

3. Remove appropriate drive components to gain access to seal to be replaced.

4. Drain oil if seal is below oil level.

5. Remove the worn seal without damaging the shaft surface or the seal bore. This can be done by drilling a 0.062" diameter hole in the casing (being careful not to drill into the bearing behind the seal). Screw a #10 sheet metal screw into the hole and pry out the seal.

6. Clean the seal bore in housing of sealant.

7. Before installing the new seal, use electrical tape to cover any keyways on the shaft to prevent seal lip damage.

8. Grease the seal lips with bearing grease and apply a sealant to the seal bore in housing.

9. Slide the seal onto the shaft being careful not to fold the inner lip over on any shaft steps.

10. Press the seal into its bore with a sleeve that presses on the seal casing, being careful to keep the seal square in its bore.

11. Refill reducer to proper level with appropriate lubricant.

CAUTION Always check for proper oil level after filling. Do not overfill or underfill with oil, or injury to personnel, reducer or other equipment may result.

CAUTION Do not mix different oils in the reducer.

12. Reconnect any drive components disconnected in Step 3. Make sure components are properly aligned.

Class of Service

All capacity ratings are based on proper application of American Gear Manufacturers Association (AGMA) service factors. Load conditions must be within cataloged ratings published in the current Grove Gear Catalog (available upon request).

For information contact:

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