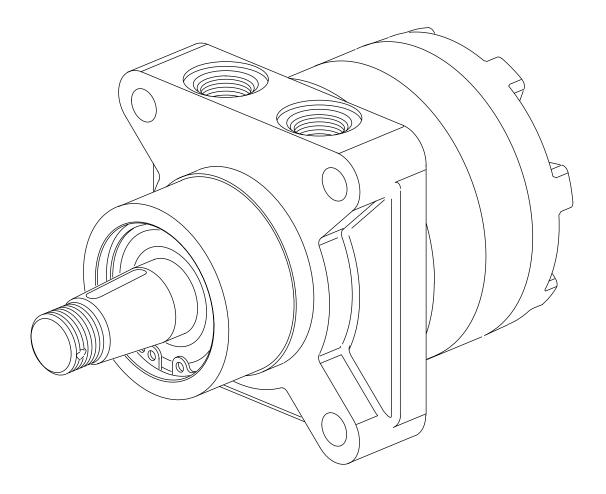


No. 7-157 April, 1999



Repair Information



W Series Geroler[®] Motors

002,003



W Series Geroler[®] Motors

Tools Required

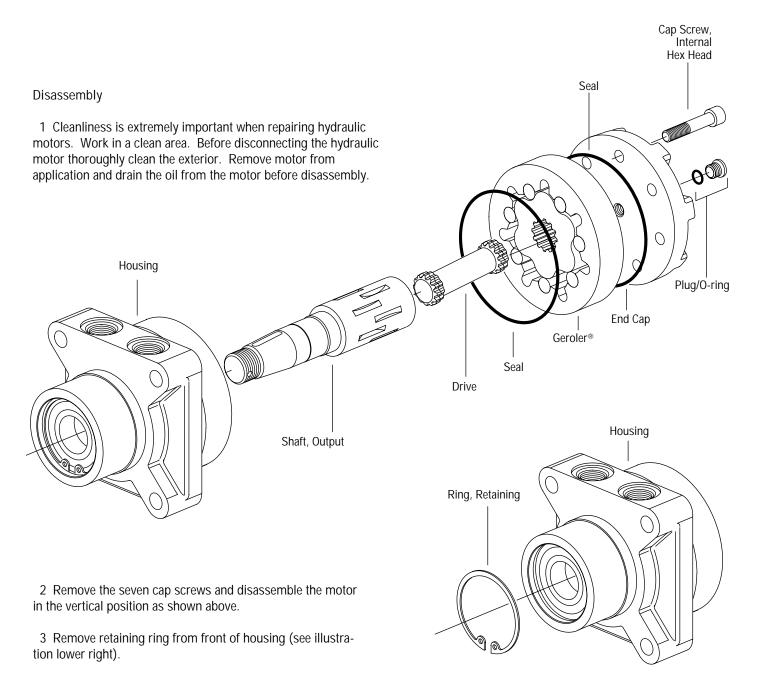
- 5/16 inch Hex Key
- Shuttle • Bullet for Shaft Seal Installation - Eaton Tool No. 600633 (Two Way) • Bearing Removal Tool - Eaton Tool No. 600636 Shown Enlarged • Bearing Installation Tool - Eaton Tool No. 600637 Dash Pot • Torque wrench - 68 Nm [600 lb-ft] capacity Plug/O-ring Spring • Seal Press Tool - Eaton Tool No. 600642 S/A Poppet Spring Piston Dash Pot Poppet Plug/O-ring S/A Ø (0) Plug Torque (2) 8-11 Nm [75-100 lb-in] Housing Housing Seal, Pressure Washer, Backup Washer Ring, Retaining Ring, Retaining Bearing, Ball Ring, Retaining Key Hex Nut 00 \bigcirc \bigcirc 0 Plug/O-ring Cap Screw, Internal Hex Head End Cap Seal Geroler® Seal

Shaft, Output

Drive

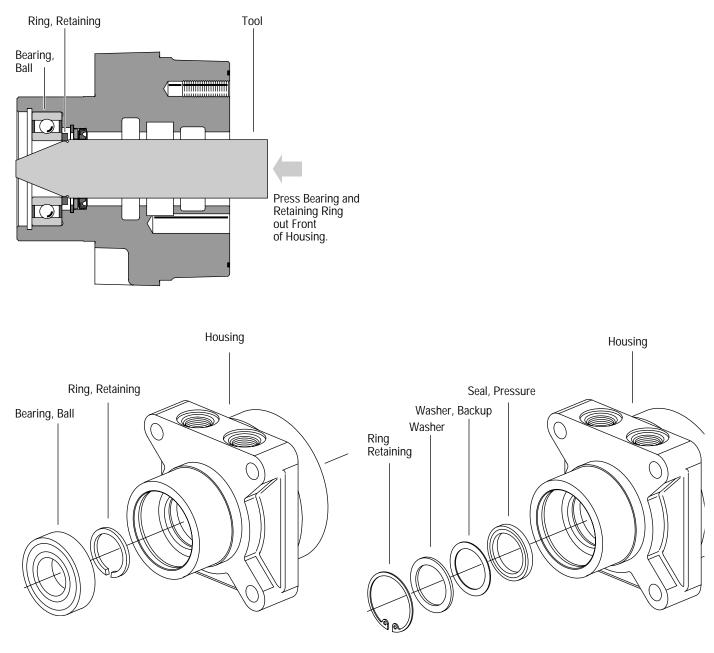
W Series Geroler Motors







W Series Geroler® Motors



4 Remove bearing and retaining ring with special tool by inserting tool cone end first and driving these two parts out from back side of housing. Seal will be damaged when tool is inserted and must be replaced upon reassembly.

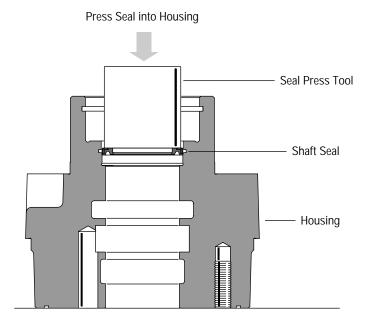
5 Remove retaining ring, washer, backup washer and pressure seal from housing.

6 Check all mating surfaces. To reduce the chance of leakage, replace any parts that have scratches or burrs. Wash all metal parts in clean solvent. Blow them dry with pressurized air. Do not wipe parts dry with paper towels or cloth as lint in a hydraulic system will cause damage.

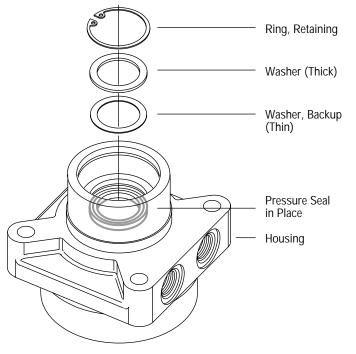




Reassembly



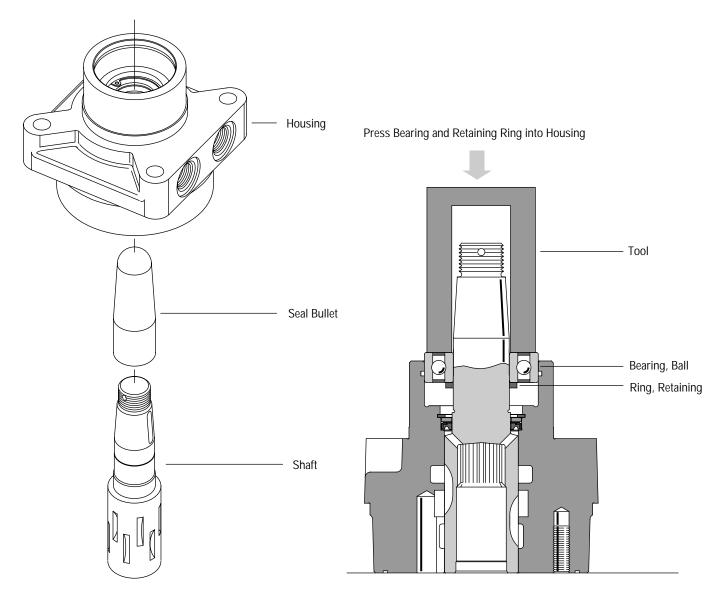
7 Position housing in the vertical position on a clean smooth surface, lubricate pressure seal with petroleum jelly and insert in housing, seal lip in the down position. Use seal press tool No. 600642 and press seal into position in housing.



8 Place backup washer, washer, and retaining ring on top of pressure seal. Make sure retaining ring is fully engaged in groove in housing.



W Series Geroler® Motors



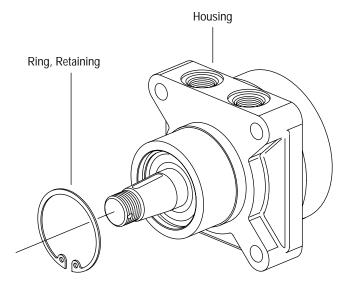
9 Place seal bullet over shaft. With bullet and shaft seal surface lubricated with petroleum jelly, place shaft on a clean smooth hard surface, output end of shaft up. Position housing over shaft and carefully lower housing over bullet and shaft.

10 Remove bullet from shaft end and place retaining ring and bearing on shaft, along with bearing driver tool. Press these parts into housing.

IMPORTANT NOTE: When handling motor assembly without bearing installed, extra care should be taken to make sure that the back end of the Output Shaft <u>always</u> stays flush with the back end of housing surface. If Output Shaft moves, in either direction, more than 0,79mm [1/32 in.], Output Shaft should be removed from the housing so that the Seal may be inspected for cuts. If necessary, replace Seal per steps 7 and 8, and then reinstall Output Shaft per step 9.



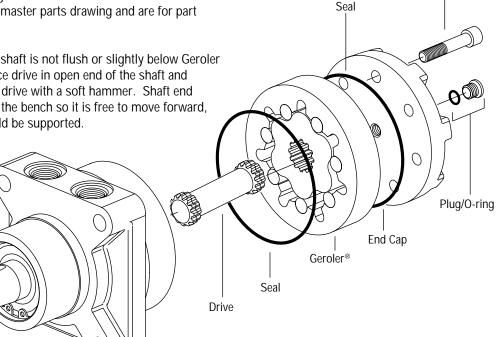
W Series Geroler Motors



11 Install retaining ring, making sure retaining ring is fully engaged in ring groove in housing.

12 Reposition housing shaft end down. The illustrations have been created from the master parts drawing and are for part reference only.

Important Note: If the shaft is not flush or slightly below Geroler mounting surface, place drive in open end of the shaft and through spline. Strike drive with a soft hammer. Shaft end should be in a hole on the bench so it is free to move forward, the housing only should be supported.



13 Install seal in seal groove of housing.

14 Place drive in shaft, engage spline. Mark drive using mark on shaft as a reference point. Timing procedure is shown on Page 8.

15 Place Geroler over drive seal groove up, star point or star valley aligned with mark on drive per your rotation preference. seal in seal groove of Geroler.

17 Place end cap on Geroler, insert seven cap screws and pretorque in a crisscross pattern to a 28-34 Nm [250-300 inlb]. Final torque in a crisscross pattern to a 51-62 Nm [450-550 in-lb].

Cap Screw,

Internal Hex Head

18 Install new o-ring on case drain plug. This plug would be present only when case drain option is not being used. Torque plug to 7-9 Nm [64.84 in-lb].

W Series Geroler Motors How to Order Replacement Parts Each Order Must Include the Following: Timing 1. Product Number 4. Part Number 2. Date Code 5. Quantity of Parts 3. Part Name Geroler For More Detailed Information Contact Eaton Corp. Hydraulics Division 15151 Highway 5 Eden Prairie, MN 55344. Star Valley Specifications and performance data, Catalog 11-111. • (Reverse Replacement part numbers and kit information ----Timing) Parts Information: W -Motor -002 - No. 6-163 W -Motor -003 - No. 6-164 Star Point Date Code П (Std. Timing) Char-l Vnn 00 0 О Parallel Geroler Week of Last Year 01 Number AON MN 5534 Thru 52 of Year Product Number Marked Drive 162 0000 000 (for Reference) **Timing Dot** Product Line Product Engineering Identification Identification Change В Number Number Code CW В CCW Standard Timing **Reverse Timing** Eaton Corporation Eaton Ltd. Eaton B.V. Sumitomo Eaton Hydraulic Co. Hydraulics Division Hydraulics Division Boeing Avenue 11 8 Temasek Blvd. 15151 Hwy. 5 Glenrothes, Fife 1119 PC Schiphol-Rijk 42-01 Suntec Tower Three Eden Prairie, MN 55344 Scotland, KY7 4NW The Netherlands Singapore 03988 Telephone: [+44] (0)1592-771-771 Telephone: [+31] (0)20-655 6776 Fax: [+31] (0)20-655 6800 Telephone: [+65] 832-7727 Telephone: 612/937-7254 Fax: 612/937-7130 Fax: [+44] (0)1592-773-184 Fax: [+65] 832-7733 DINV

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