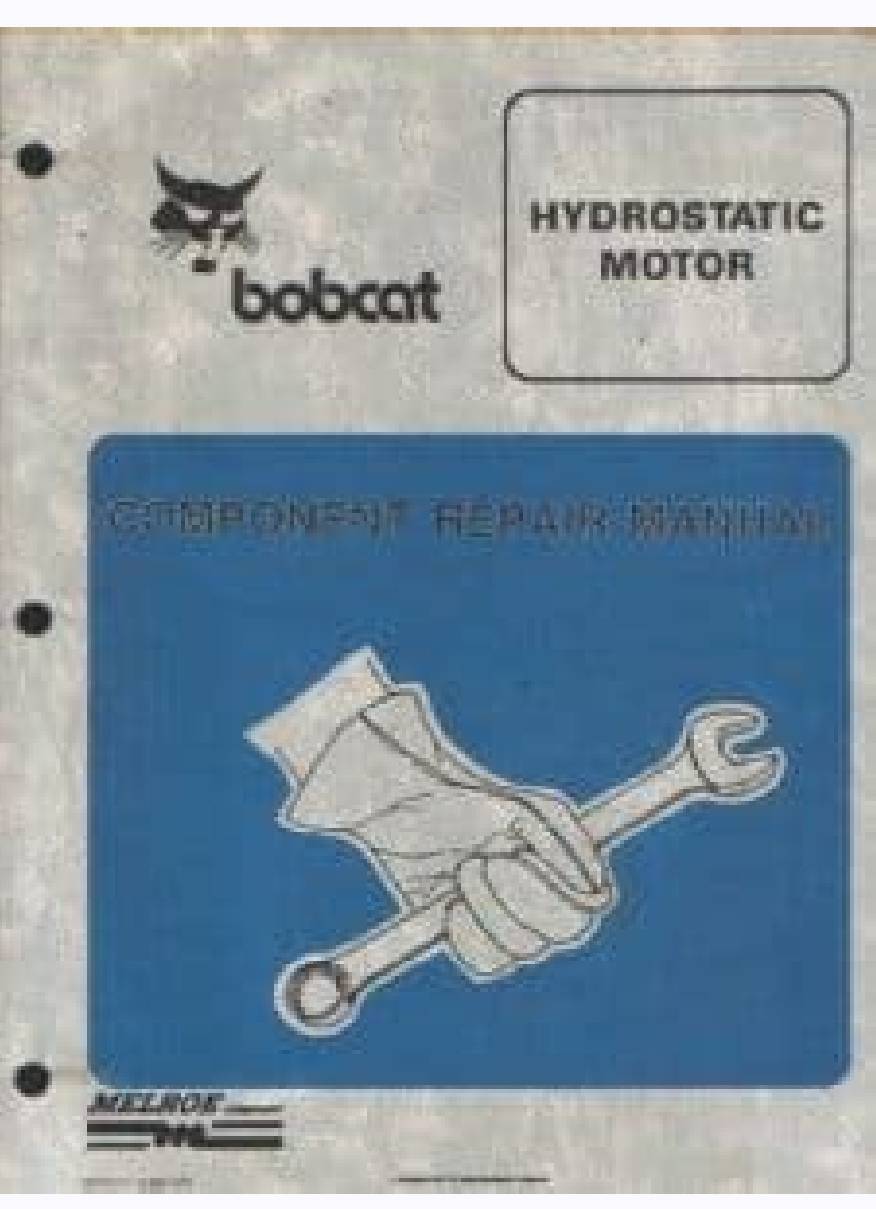
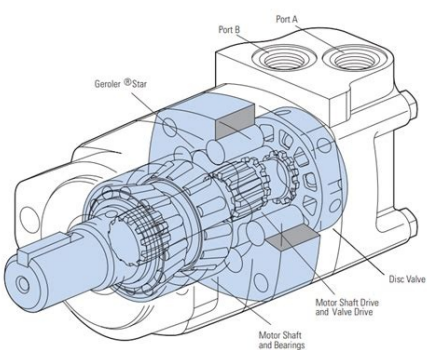


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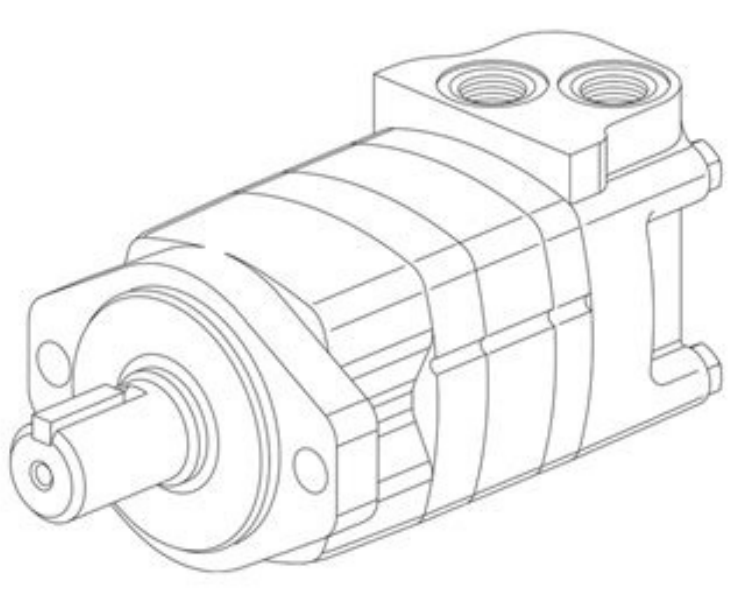


Char-Lynn®
Hydraulic Motor

No. 7-124
July, 1999

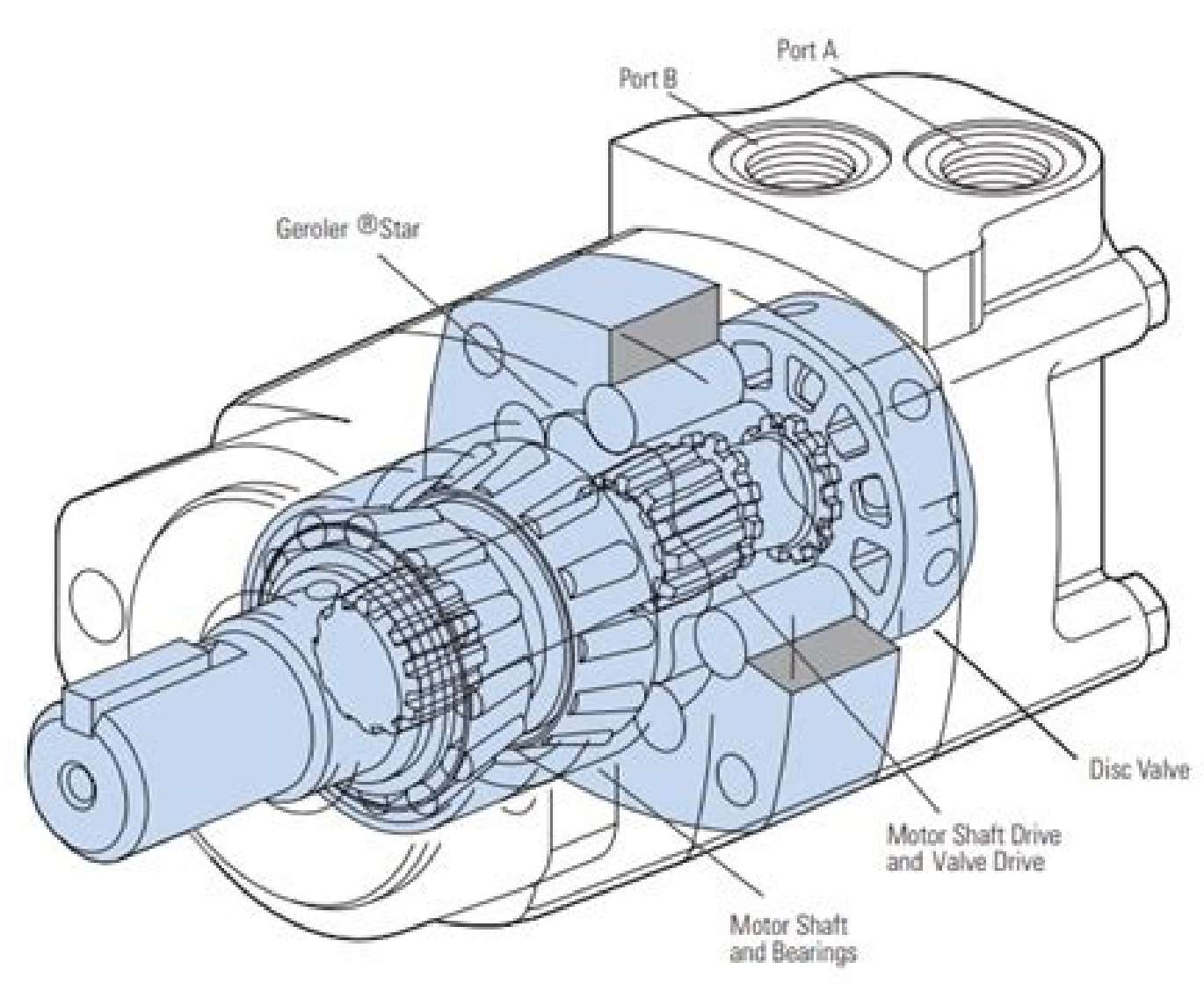


Repair Information



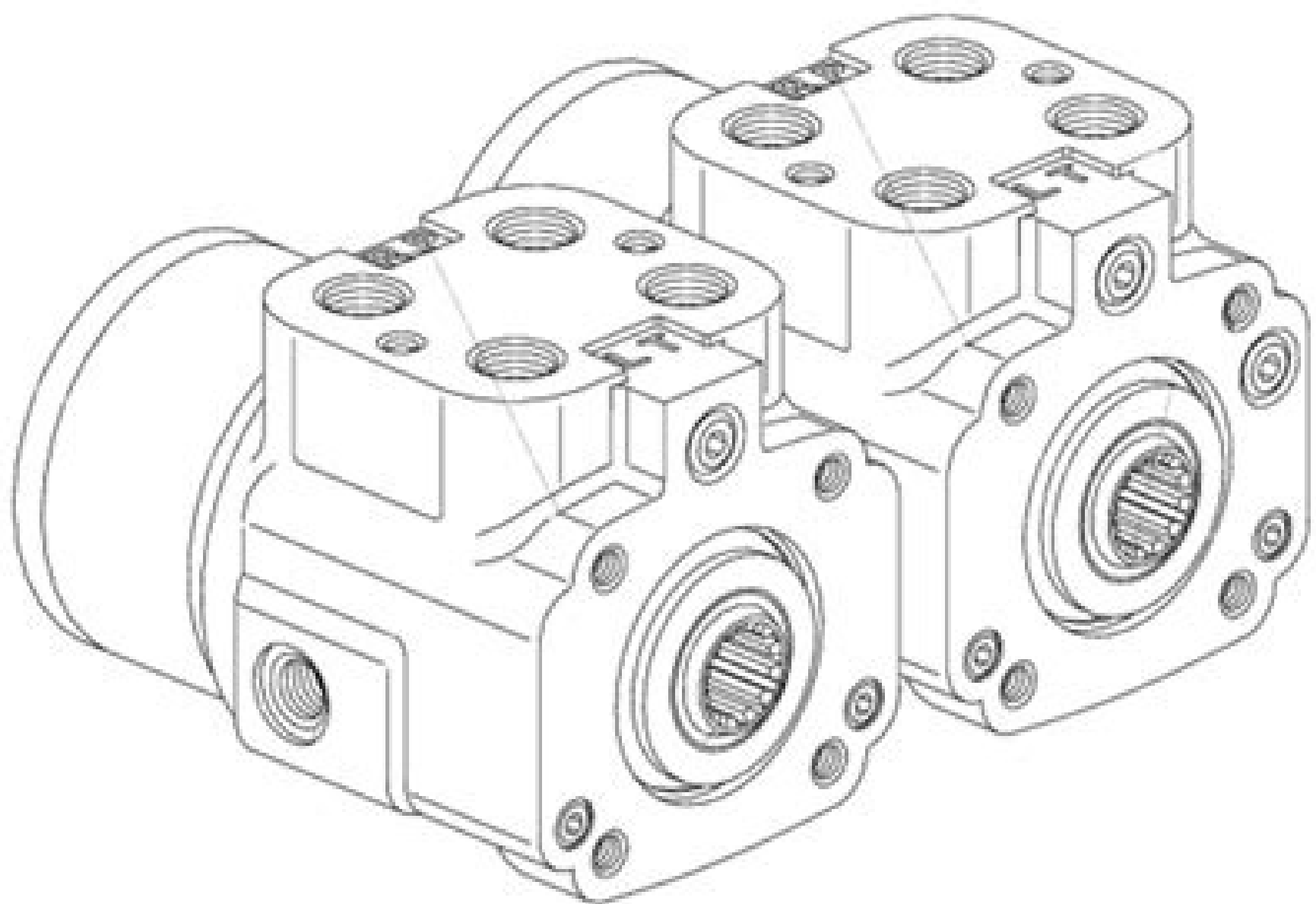
2000 Series
Disc Valve Geroler Motor

006





Repair Information



**110, 230 and 450 Series
Steering Control Units**

001 002

Manufacturer: Eaton Category of Device: Engine Document: Parts And Repair Manual, File Type: PDF Count of Pages: 18 Download Char-Lynn 2000 Series Manual (18 pages) 2 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Table of Contents EXPLODED VIEW DRAWINGS
3 TOOLS REQUIRED FOR DISASSEMBLY & REASSEMBLY 4 DISASSEMBLY 5 REASSEMBLY 7 WHEEL MOTOR 3 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Exclusion seal Bearing housing Seal Back-up washer Shaft seal Bearing and shaft assembly Key Shaft face seal Wear plate Seal Seal Valve plate Splined drive Geroler Valve drive Pin Spring Valve housing Tie bolt Inner face seal O-ring/ plug S/A O-ring/ Plug S/A O-ring/ plug S/A Shuttle valve option Piston Spring Poppet Spring Dash pot Dash pot Balance ring Outer face seal... 4 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Tools required for disassembly and reassembly. Torque wrench 57Nm [500 lb-in] capacity 300-450 [12-16]* breaker bar 9/16 socket Small screwdriver 150-200 x 6.5 [6-8 x 1/4] blade 3/16 Allen wrench Press * Unless indicated otherwise, measurements are given in mm [inches] ** Shaft seal installation tool (600496) ** Bullet (600465) for 1 diameter shafts The following tools are not necessary for disassembly and reassembly, but are extremely helpful. Alignment studs (2) 8.0 ... 5 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Disassembly Cleanliness is extremely important when repairing a hydraulic motor. Work in a clean area. Before disconnecting the lines, clean the port area of the motor thoroughly. Use a wire brush to remove foreign material and debris from around the exterior joints of the motor. Check the shaft and key slot, remove all nicks, burrs or sharp edges that might damage the bearing housing seals when installing the sha... 6 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Seal Valve Drive Valve Plate 10. (A) Remove the valve plate. 11. (A) Remove the 76.0 [3.00] diameter seal from valve plate. 12. (A) Remove the valve drive. Seal Drive Retainer Geroler Valve Plate Valve Drive Retaining Ring 10. (B) Remove the Valve Drive and Retaining Ring 11. (B) Remove valve plate and 76.0 [3.00] diameter seal from valve plate 12. (B) Remove drive retainer Seal Seal Geroler 13. Remove the Gerole... 7 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Check all mating surfaces. Replace any parts that have scratches or burrs that could cause leakage. Clean all metal parts in clean solvent. Blow dry with air. Do not wipe dry with cloth or paper towel because lint or other matter can get in the hydraulic system and cause damage. Do not use a coarse grit or try to file or grind these parts. Check around the keyway and chamfered area of ... 8 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com 34. Align the notch on the outside of the valve plate with the notch on the Geroler as shown in Figure 12. Timing Step # 2 — Locate the slot opening in the valve plate which is in line with the largest open pocket of the Geroler. Timing Step # 3 — Locate any one of the side openings of the valve and align this opening with the open slot of the valve plate that is in line with the largest open pocket of the Geroler. Install the valve by r... 9 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com 40. Install the bolts. If you use alignment Studs, install 2 bolts opposite the studs. Finger tighten the bolts. Remove the alignment studs and replace with the two remaining bolts. Torque all four bolts alternately to 50 Nm [450 lb-in]. 41. Install seal on case drain plug then install in valve housing. Torque to 6 Nm [50 lb-in.] Case Drain Plug with Seal Tie Bolts Exclusion Seal Castle Nut Bearing Housing Seal Shaft Seal Shaf... 10 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Standard/Wheel motor with extreme duty seal guard Installation of extreme duty seal guard: After completing assembly of the shaft and bearing assembly into the bearing housing, press the Extreme Duty Seal Guard onto the shaft with a tool that will provide an even push over the seal. This tool must bottom out against the bearing housing and provide a 7.1 mm [.28 inch] stop for the seal guard. (Applicable for standard and wheel mount motors) Extreme Duty Seal guard Bea... Eaton Char-Lynn 2000 Series 11 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Reassembly — Speed sensor 1. Rotate the motor shaft until a (gear/ target) tooth is centered in the speed sensor port. If this is not done, the sensor may be damaged during the operation of the motor. 2. Make sure the lock nut and its threads are clean and dry for the proper torque. Position the lock nut against the alignment nut as shown in Figure 22. 3. Move the washer and the o-ring up against the speed sensor body... Eaton Char-Lynn 2000 Series 12 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Use digit prex —104-, 105-, or 106- plus four digit number from charts for complete product number—Example 106-1039. Product Numbers—2000 Series Each Order Must Include the Following: How to Order Replacement Parts 1. Product Number 2. Date Code 3. Part Name 4. Part Number 5. Quantity of Parts For Additional Literature Contact Eaton Corp. Hydraulics Division 15151 Highway 5 Eden Prairie, MN 55344. Specifications and performance dat... 13 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Shuttle (Two Way) Shuttle Valve Location (see insert above) 27 26 25 24 25 26 27 28 Speed Sensor Included in Ref. No.s 13, 19, 39 28 6 6 5 4 1 3 6 2 1 1 1 20 19 6 8 7 9 13 17 14 16 19 2 41 19 19 19 18 15 21 29 10 30 2 20 20 20 Displacement cm 3 [r] [in 3 /r] Drive, Main Item No. 9 —Part No./Length mm [inch] 21371-009 76,2 [3.00] Geroler @ Item No. 10 —Part No./Width mm [inch] 21625-001 171,8 [7.01] 21371-010 ... 14 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Valve 113 1121468-000 Valve — Speed Sensor Valve 11201307-002 Balance Ring 1118915-000 Housing, Valve (G 1/2 (BSP) Ports — G 1/4 (BSP) Case Drain Port) 20r Seal 34414559-006 12 1 Drive, Valve 11 8433-000 11 1 Plate, Valve 11 22134-000 1170r Seal, Face, Inner 119049-001 180r Seal, Face, Outer 119135-002 16 2Spring, Compression 227383-000 Housin... 15 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Shuttle (Two Way) Shuttle Valve Location (see insert above) 27 26 25 24 25 26 27 28 Speed Sensor Included in Ref. No.s 13, 19, 39 28 6 6 5 4 1 3 6 2 1 1 1 20 19 6 8 7 9 13 17 14 16 19 2 41 19 19 19 18 15 21 29 10 30 2 2 68 11 69 12 Components specic to displacements codes 021, 025 and 040 20 20 20 Displacement cm 3 /r [in 3 /r] Drive, Main Item No. 9 —... Eaton Char-Lynn 2000 Series 16 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Item No. Description Brgl.Whl.Std. Quantity per Unit Part Number Continued from Page 14 Seal 1 O 29 15127-000 27 2 Sleeve, Dash Pot 22 8755-000 228 Plug Assembly (9/16-18 Shuttle Valve End) 229072-005 2 O-ring 2 1 2 11 11 250003-906 Seal Kit (Std. and Whl. Motors)—Contains Parts Indicated by † * —See Chart on Opposite Page. 61258-000 61259-000 61263-000 61261-000 Seal Kit.Viton** (Bearingless Motor Only)—Contains Parts Indicated by O ** —Vito... Eaton Char-Lynn 2000 Series 17 2000 Series Disc Valve Motors 2000 SerieS diSc valve geroler motor C-MOLO-TM010-E1 June 2018 www.eaton.com Notes: ... Eaton 1000 Eaton Boulevard Cleveland, OH 44122 United States Eaton.com © 2018 Eaton All Rights Reserved Printed in USA Publication No. C-MOLO-TM010-E1 June 2018 Eaton is a registered trademark. All trademarks are property of their respective owners. Eaton Hydraulics Group USA 14615 Lone Oak Road Eden Prairie, MN 55344 USA Tel: 952-937-9800 Fax: 952-294-7722 www.eaton.com/hydraulics Eaton Hydraulics Group Europe Route de la Longeraie 7 1110 Morges Switzerland Tel: +41 (0) 21 811 4600 Fax: +41 (0) 21 811 4600 Eaton Char-Lynn 2000 Series User Manual Eaton Char-Lynn 2000 Series User Guide Eaton Char-Lynn 2000 Series PDF Manual Eaton Char-Lynn 2000 Series Owner's Manuals PROTECTED BY CANADIAN PATENT US PATENTS AUSTRALIAN PATENT 2,108,391 5,355,860; 5,746,184; 6,729,310 2005101054 NEW ZEALAND PATENT 532356 Additional Foreign Patents Pending in Europe, South America, Mexico, Japan, ... FP-100 Engine Installation manual, 24 BIM 1011/2005/03 1 www.nord.com BIM 1011 NORDBLOC® Helical Gearboxes Installation and Maintenance Instructions Retain These Safety Instructions For Future Use INSPECTION OF UNIT Thoroughly inspect the equipment for any shipping and handling damage before accepting shipment from the freight company. If any of the goods called for ... NORDBLOC SK 172 Engine Installation and maintenance instructions manual, 10 Workshop ManualIndustriemotoren - Industrial Engines 2009►Workshop Manual for Diesel Engine (2.0 l/36-75 kW EA 189)Edition 05.2015Engine codeCJDA CJDD CPYA CPYB CPYC CPYD CPYE Service3Service Department. Technical Information ... CJDA Engine Workshop manual, 553 SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCEIF 1737Champ LED floodlight FMV LED fixtures Gen. IInstallation & maintenance informationIF 1737 • 03/19 Copyright© 2019, Eaton's Crouse-Hinds Division Page 1WARNINGTo avoid the risk of fire, explosion or electric shock, this product sh ... Crouse-hinds series Flood Light Installation & maintenance information, 24 -1- SAITO FG-57TS is the updated model exclusively for Acrobatic flight based on FG-57T which has been gotten good reputations from many scale flyers. The standard equipments such as stand-off mount and heatsink make installation easier and bring it durability against heat during your active flight. Of course, its reliability and beautiful twin sound have been taken from FG-57T.SpecificationsB ... FG-57TS Engine Operating instructions manual, 7 Additional Information:

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