

Service Manual

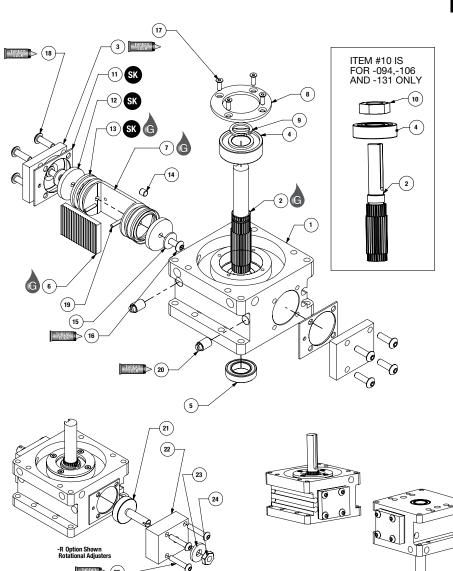
ROBOHAND | DRG Series



WARNING: This is a controlled document. It is your responsibility to deliver this information to the end user of the Destaco Robohand product. Failure to deliver this could result in your liability for injury to the user or damage to the machine. For copies of this manual, call your Customer Service Representative at 1.248.836.6700

DRG SERIES

Rotary Actuators | Maintenance and Assembly Procedure



01 1 Body 02 1 Pinion Shaft 03 2 End Plate 04 1 Upper Bearing 05 1 Lower Bearing 06 1 Rack 07 1 Piston 08* 1 Bearing Retainer 09* 1 Retaining Ring 10 1 Hex Nut 11 2 Gasket 12 2 Bumper 13 2 U-cup 14 1 Magnet 15 2 Bumper Washer 16 2 Bumper Screw 17 4 Retainer Screw
03 2 End Plate 04 1 Upper Bearing 05 1 Lower Bearing 06 1 Rack 07 1 Piston 08* 1 Bearing Retainer 09* 1 Retaining Ring 10 1 Hex Nut 11 2 Gasket 12 2 Bumper 13 2 U-cup 14 1 Magnet
04 1 Upper Bearing 05 1 Lower Bearing 06 1 Rack 07 1 Piston 08* 1 Bearing Retainer 09* 1 Retaining Ring 10 1 Hex Nut 11 2 Gasket 12 2 Bumper 13 2 U-cup 14 1 Magnet
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12 2 Bumper 13 2 U-cup 14 1 Magnet
12 2 Bumper 13 2 U-cup 14 1 Magnet
12 2 Bumper 13 2 U-cup 14 1 Magnet 15 2 Bumper Washer
13 2 U-cup 14 1 Magnet 15 2 Bumper Washer
14 1 Magnet15 2 Bumper Washer
15 2 Bumper Washer
16 2 Bumper Screw
18 8 End Plate Screw
19 2 Roll Pin 20* 2 Fixed Orifice 21 2 Angle Adjuster 22 2 End Plate Rotational
20* 2 Fixed Orifice
21 2 Angle Adjuster
22 2 End Plate Rotational
Adjuster
23 2 Seal Washer
24 2 Hex Nut 25 8 End Plate Rotational
25 8 End Plate Rotational
Adj. Screw

*NOTES:

- Contact the Robohand Sales
 Department for a complete spare parts list with order numbers and prices.
- 2) Item #09 is for size -075 only.
- 3) Item #10 is for size -094, -106 and -131 respectively.
- 4) Item #20 not in size -131

Assembly Procedure

- 1) Press the Upper Bearing #4 onto the Pinion #2.
- 2) Install the Retaining Ring#9 or Hex Nut #10 onto the Pinion #2.
- 3) Assemble the Rack #6 to the Piston #7 with Roll Pins #19.
- 4) Grease the U-Cups #13 and install them onto the Piston #7.
- 5) Press the Magnet #14 into the Piston #7.
- 6) Assemble the Bumper #12, Washers #15 and Bumper Screw #16 onto the Piston #7.
- Lubricate the Body #1 bore and install the Piston Assembly into the body.
- 8) Press the Lower Bearing #5 into the Body #1.
- Locate the Piston assembly so it is aligned with an outer edge of the body.
- 10) Lubricate the Pinion assembly and align the key with the same edge of the Body as the Piston and Press the Pinion into the Body.
- 11) Rotate the Pinion through the full travel and insure that the Piston is correctly located in the Body, adjust the travel of the Piston if necessary.
- 12) Grease the Gasket and install the End Plate #3 onto the Body #1.
- 13) Install the 2 Orifice #20 into the Body #1 screw them in until they bottom.
- 14) Install the Bearing Flange #8 with the 4 Flange Screws #17.

-R Option Assembly Procedure:

- 1) Screw the Angle Adjuster into the End Block Angle Adjuster.
- 2) Place the sealing washer over the threaded extension.
- 3) Screw on the Hex Nut over the Sealing Washer.
- 4) Screw the End Block onto the Body with a Gasket.











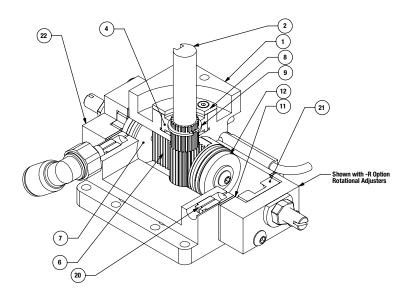






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Rotary Actuators | Maintenance and Assembly Procedure



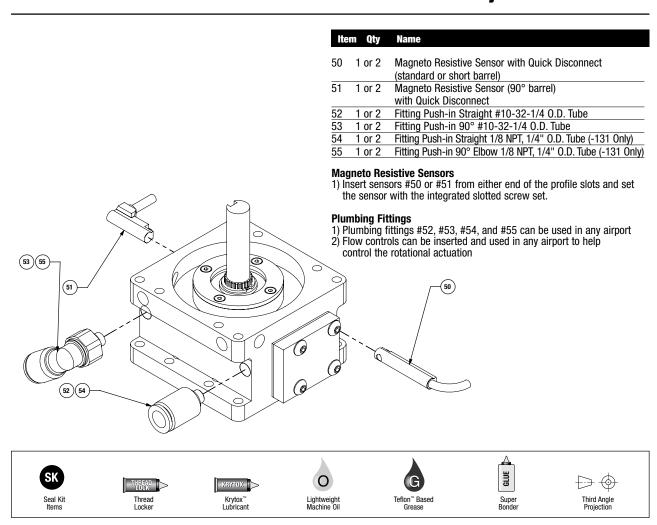
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Item	Qty	Name
01	1	Body
02	1	Pinion Shaft
04	1	Upper Bearing
06	1	Rack
07	1	Piston
08*	1	Bearing Retainer
09*	1	Retaining Ring
11	2	Gasket
12	2	Bumper
20	2	Fixed Orifice
21	2	Angle Adjuster
22	2	End Plate Rotational
		Adjuster

*NOTES:

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 Department for a complete spare parts list with order numbers and prices.
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Accessory Installation & Adjustment Instructions







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