

## RotoGripper

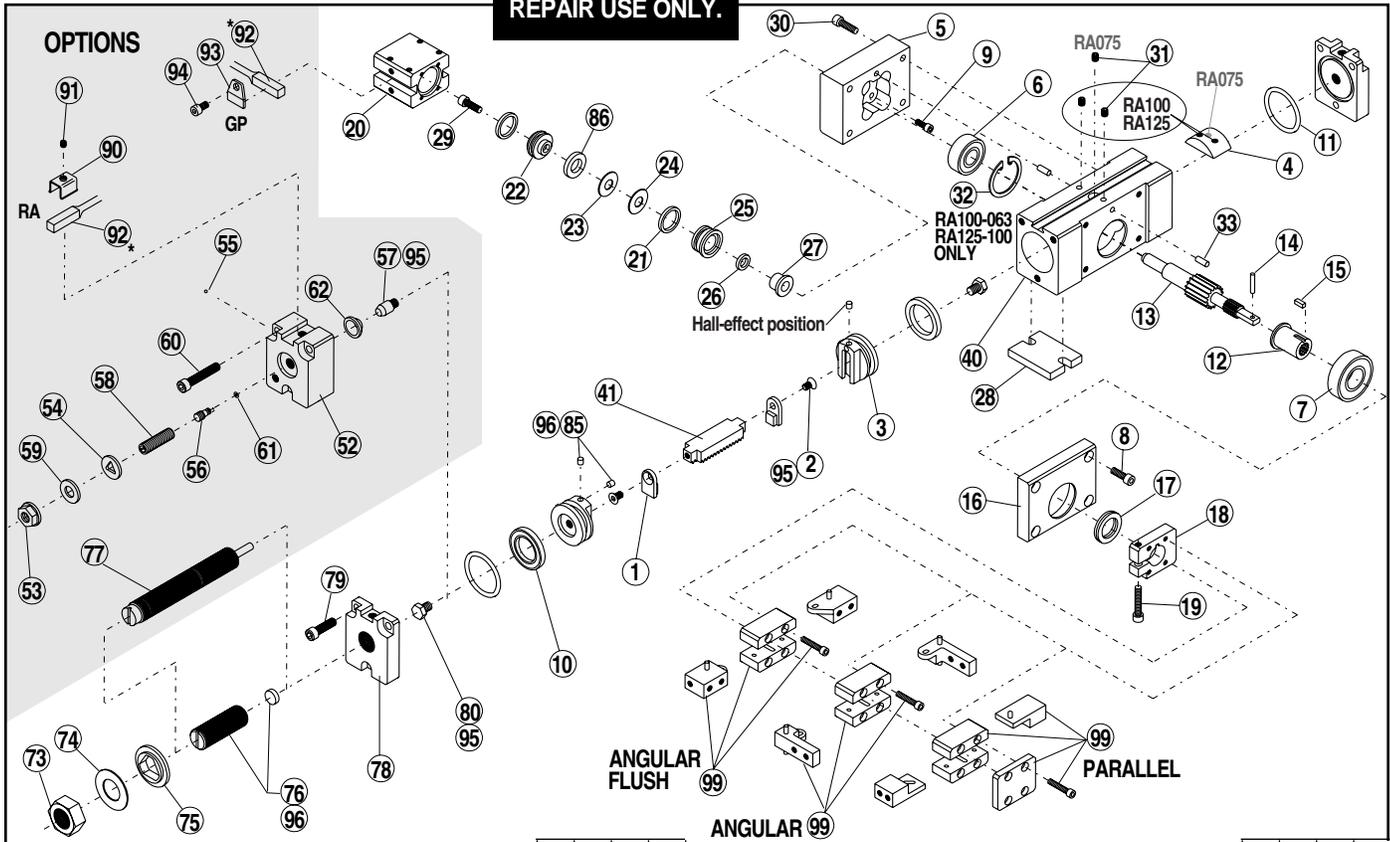
Rotary Actuator Bores:  
3/4", 1" & 1-1/4"

Gripper Bores: 5/8" & 1"

**DISCONTINUED  
PRODUCT STYLE  
OR SIZE. PARTS  
SHEET IS FOR  
REPAIR USE ONLY.**

### Models Available:

RGRA075RO18GPA063, RGRA075RO36GPA063, RGRA075RO18GPP063,  
RGRA075RO36GPP063, RGRA100RO18GPA063, RGRA100RO36GPA063,  
RGRA100RO18GPP063, RGRA100RO36GPP063, RGRA100RO18GPA100,  
RGRA100RO36GPA100, RGRA100RO18GPP100, RGRA100RO36GPP100,  
RGRA125RO18GPA100, RGRA125RO36GPA100, RGRA125RO18GPP100,  
RGRA125RO36GPP100

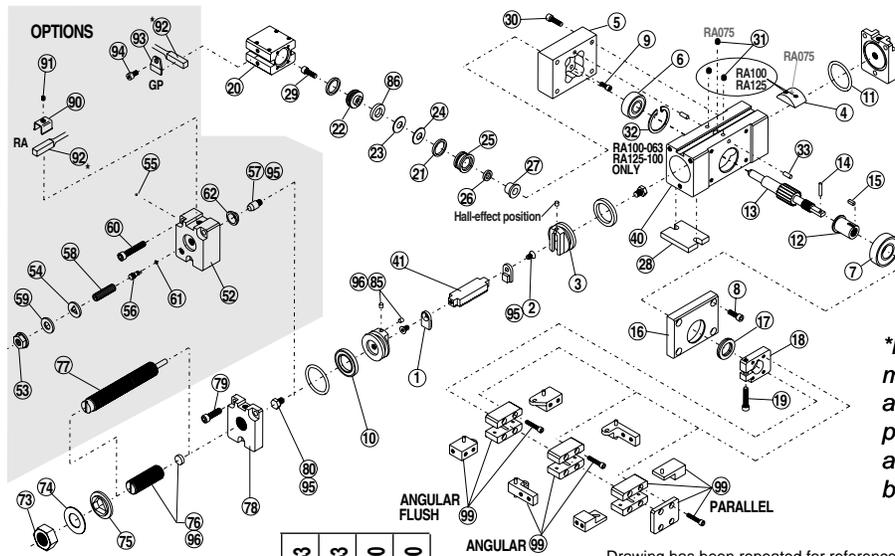


### List of Parts

ITEM PART NO.	DESCRIPTION	RGRA075GPA(P)063	RGRA100GPA(P)063	RGRA100GPA(P)100	RGRA125GPA(P)100
1	1812-1022 Plate, Connector, RA075	2			
	1816-1022 Plate, Connector, RA100		2	2	
	1820-1122 Plate, Connector, RA125				2
2	1812-1003 FHSCS, 6-32 x .31 Black	2	2	2	
	0720-1006 FHSCS, 10-24 x .50 Black, RA125				2
3	1812-1021 Piston, RA 075	2			
	1816-1021 Piston, RA 100		2	2	
	1820-1121 Piston, RA 125				2
4	1812-1017 Block, Guide, RA075	1			
	1816-1017 Block, Guide, RA100		1	1	
	1820-1117 Block, Guide, RA125				1
5	1812-1033 Plate, Cyl, RA075	1			
	1816-1033 Plate, Cyl, RA100		1		
	1816-1037 Plate, Cyl, RA100			1	
	1820-1133 Plate, Cyl, RA125				1
6	1812-1010 Bearing, Ball, Radial, .25 (RA075)	1			
	0910-1386 Bearing, Ball, Radial, .38 (RA100)		1	1	
	0515-1147 Bearing, Ball, Radial, .50 (RA125)				1

*\*NOTE: Only universal mini Hall-effect switches are available for rack & pinion rotary actuators and grippers of these bore sizes*

ITEM PART NO.	DESCRIPTION	RGRA075GPA(P)063	RGRA100GPA(P)063	RGRA100GPA(P)100	RGRA125GPA(P)100
7	0515-1147 Bearing, Ball, GP063	1	1		
	1820-1110 Bearing, Ball, 5/8 x 1-3/8, GP100			1	1
8	0910-1040 SHCS, 6-32 x .38, RA075-GP063	4			
	0605-1045 SHCS, 6-32 x .44, RA100-GP063		4		
	1307-2018 SHCS, 6-32 x .50, RA100-GP100			4	
	0910-1166 SHCS, 8-32 x .50, RA125-GP100				4
9	0610-1077 SHCS, 4-40 x .31, RA075-GP063	4			
	0605-1079 SHCS, 4-40 x .25, RA100-GP063		4		
	0605-1046 SHCS, 8-32 x .38, Blk, RA100-GP100			4	
	1820-1102 SHCS, 8-32 x .25, Blk, RA125-GP100				4
10	1812-1011 U-Cup, Buna-N, 3/4 x 1/8, RA075	2			
	1001-1253 U-Cup, Buna-N, 1 x 1/8, RA100		2	2	
	1820-1111 U-Cup, Buna-N, 1-1/4 x 1/8, RA125				2
10	1812-1016 U-Cup, Viton, 3/4 x 1/8, RA075	2			
	1001-1119 U-Cup, Viton, 1 x 1/8, RA100		2	2	
	1820-1106 U-Cup, Viton, 1-1/4 x 1/8, RA125				2
11	1001-1130 O-Ring, Buna-N, -018, RA075	2			
	1816-1015 O-Ring, Buna-N, -022, RA100		2	2	

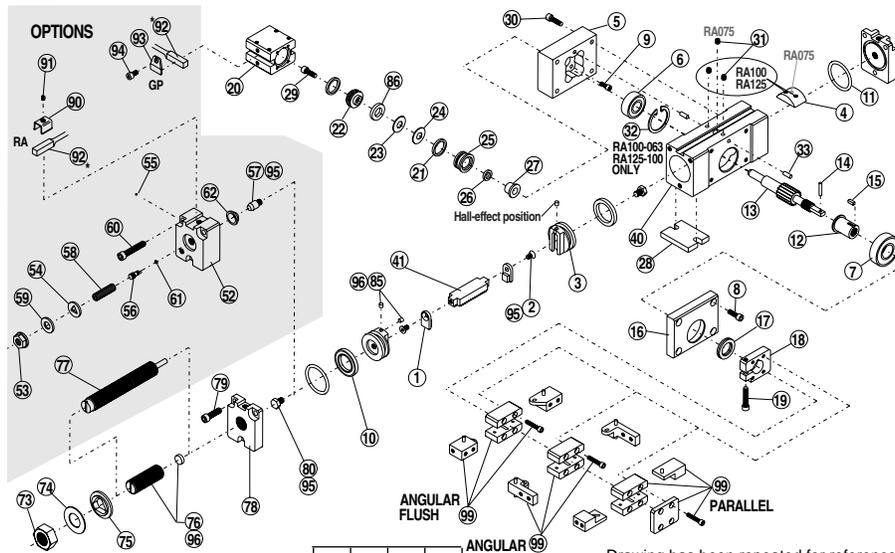


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**NOTE: Options are shaded**

ITEM PART NO.	DESCRIPTION	RGRA075GPA(P)063	RGRA100GPA(P)063	RGRA100GPA(P)100	RGRA125GPA(P)100
11 1812-1040	O-Ring, EPR, -026, RA125				2
1812-1018	O-Ring, Viton, -018, RA075	2			
1816-1006	O-Ring, Viton, -022, RA100		2	2	
1820-1107	O-Ring, Viton, -026, RA125				2
12 1816-1036	Ring, Spline, GP063	1	1		
1820-1136	Ring, Spline, GP100			1	1
13 1812-1032	Pinion, RA075-GP063	1			
1816-1032	Pinion, RA100-GP063		1		
1816-1031	Pinion, RA100-GP100			1	
1820-1132	Pinion, RA125-GP100				1
14 1906-1012	Pin, Dowel .094 x .75, GP063	1	1		
1910-1012	Pin, Dowel 5/32 x 1", GP100			1	1
15 1812-1024	Key, Sq. .094 x .23	1	1	1	1
16 1812-1034	Plate, Finger Mt., RA075-GP063	1			
1816-1034	Plate, Finger Mt., RA100-GP063		1		
1816-1030	Plate, Finger Mt., RA100-GP100			1	
1820-1034	Plate, Finger Mt., RA125-GP100				1
17 1812-1007	Washer, GP063	1	1		
1004-1203	Washer 5/8 x 1" x 1/8, GP100			1	1
18 1816-1035	Plate, Mount, GP063	1	1		
1816-1038	Plate, Mount, GP100			1	1
19 1307-1019	SHCS 6-32 x .75, GP063	1	1		
1075-1007	SHCS 8-32 x .88, GP063			1	1
20 1906-1000	Housing, GP063	1	1		
1910-1000	Housing, GP100			1	1
21 2510-1020	Quad-Ring, Buna-N -014, GP063	1	1		
1910-1015	Quad-Ring, Buna-N -020, GP100			1	1
21 1906-1027	Quad-Ring, Viton -014, GP063	1	1		
1910-1027	Quad-Ring, Viton -020, GP100			1	1
22 1906-1001	Piston, GP063	1	1		
1910-1001	Piston, GP100			1	1
23 1906-1005	Washer, Magnet, GP063	1	1		
1910-1005	Washer, Magnet, GP100			1	1
24 1906-1004	Bumper, GP063	1	1		
1910-1004	Bumper, GP100			1	1
25 1906-1008	Guide, Shaft, GP063	1	1		

ITEM PART NO.	DESCRIPTION	RGRA075GPA(P)063	RGRA100GPA(P)063	RGRA100GPA(P)100	RGRA125GPA(P)100
25 1910-1008	Guide, Shaft, GP100			1	1
26 2506-1020	Quad-Ring, Buna-N -010, GP063	1	1		
1910-1014	Quad-Ring, Buna-N -012, GP100			1	1
26 1903-1027	Quad-Ring, Viton -010, GP063	1	1		
1910-1028	Quad-Ring, Viton -012, GP100			1	1
27 1906-1009	Bearing, Sleeve, Flanged, GP063	1	1		
1910-1009	Bearing, Sleeve, Flanged, GP100			1	1
28 6000-1678	Plate, Spacer, RA075	2			
6000-1679	Plate, Spacer, RA100		2	2	
6000-1680	Plate, Spacer, RA125				2
29 0910-1040	SHSC 6-32 x .38, GP063	1	1		
0910-1166	SHSC 8-32 x .50, GP100			1	1
30 0910-1040	SHCS 6-32 x .38, RA075-GP063	4			
1307-1019	SHCS 6-32 x .75, RA100-GP063		4		
0605-1045	SHCS 6-32 x .44, RA100-GP100			4	
1085-1075	SHCS 8-32 x .75, RA125-GP100				4
31 1812-1035	Set Screw	1	2	2	
1812-1036	Set Screw				2
32 1004-1278	Ring, Retaining, RA100-GP063		1		
2517-1029	Ring, Retaining, RA125-GP100				1
33 0605-1044	Pin, Dowel .125 x .31	1	1	1	1
40 1812-1004	Base, RA075-180	1			
1816-1004	Base, RA100-180		1	1	
40 1820-1104	Base, RA125-180				1
1812-1005	Base, RA075-360	1			
40 1816-1005	Base, RA100-360		1	1	
1820-1105	Base, RA125-360				1
41 1812-1013	Rack, RA075-180	1			
1816-1013	Rack, RA100-180		1	1	
1820-1113	Rack, RA125-180				1
41 1812-1014	Rack, RA075-360	1			
1816-1014	Rack, RA100-360		1	1	
1820-1114	Rack, RA125-360				1
52 1812-1025	Plate, Cushion, RA075	1			
1816-1025	Plate, Cushion, RA100		1	1	
1820-1125	Plate, Cushion, RA125				1

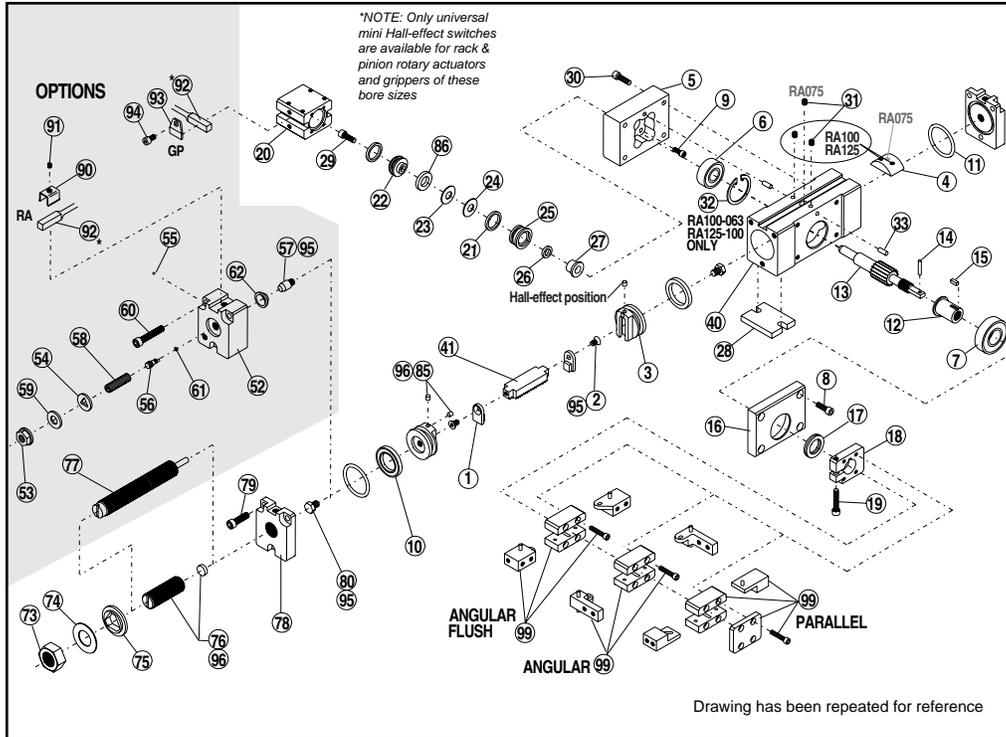


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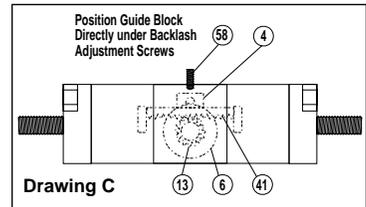
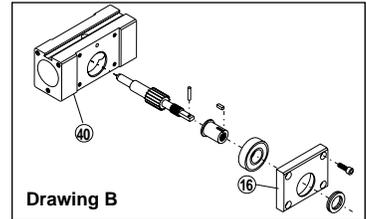
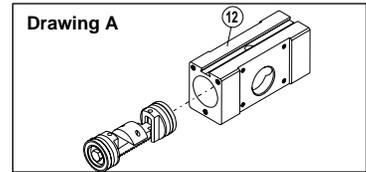
**NOTE:** Options are shaded

ITEM PART NO.	DESCRIPTION	RGRA075GPA(P)063	RGRA100GPA(P)063	RGRA100GPA(P)100	RGRA125GPA(P)100
53	1816-1020 Nut, Flange, 1/4-20	1	1	1	1
54	1816-1023 Seal, Thread, 1/4-20	1	1	1	1
55	1816-1024 Ball, 1/16 Dia. Steel	3	3	3	3
56	1816-1027 Needle, Cushion	1	1	1	1
57	1816-1029 Spear, Cushion	1	1	1	1
58	2410-1019 Set Screw, 1/4-20 x .88, Flat	1	1	1	1
59	1004-1144 Washer, .281 x .500 x .056	1	1	1	1
60	1812-1002 SHCS, 6-32 x .88, Black RA075	3			
	1001-1065 SHCS, 6-32 x 1.00, Black RA100		3	3	
	0810-1201 SHCS, 10-24 x 1.00, Black RA125				3
61	0912-1101 O-Ring, Buna-N, -002,	1	1	1	1
	1820-1116 O-Ring, Viton, -002	1	1	1	1
62	0910-1184 Seal, Cushion, Buna-N 1" BC	1	1	1	1
	0910-1461 Seal, Cushion, Viton, 1" BC	1	1	1	1
73	2403-1057 Nut, Hex Jam, 3/8 - 32, RA075	1			
	1816-1018 Nut, Hex Jam, 1/2 - 20, RA100, RA125		1	1	1
74	1001-1287 Washer, .395 x .748 x .021, RA075	1			
	1810-1077 Washer, .55 x .75 x .025, RA100, RA125		1	1	1
75	2410-1074 Seal, Thread, 3/8, RA075	1			
	1816-1016 Seal, Thread, 1/2, RA100, RA125		1	1	1
76	1812-1019 Screw, Bumper, RA075	1			
	1816-1019 Screw, Bumper, RA100, RA125		1	1	1
76	2406-1050 Bumper, Polyurethane, RA075	1			
	2410-1021 Bumper, Polyurethane, RA100, RA125		1	1	1
77	1812-1028 Shock, PMX-8 Sealed, RA075	1			
	1816-1028 Shock, PM25 Sealed, RA100, RA125		1	1	1
78	1812-1009 Plate, End, RA075	1			
	1816-1009 Plate, End, RA100		1	1	
	1820-1009 Plate, End, RA125				1
79	1207-1027 SHCS, 6-32 x .63, Black, RA075	3			
	2307-1021 SHCS, 8-32 x .63, Black, RA100		3	3	
	0707-1010 SHCS, 10-24 x .63, Black, RA125				4
80	1816-1026 Screw, Hex, 10-24 x .25	2	2	2	2
85	0905-1109 Magnet Rod, .12 x .12 NEO 35, (RA)	2	2	2	2
86	2510-1030 Magnet, (Gripper), GP063	1	1		
	1001-1202 Magnet, (Gripper), GP100			1	1

ITEM PART NO.	DESCRIPTION	RGRA075GPA(P)063	RGRA100GPA(P)063	RGRA100GPA(P)100	RGRA125GPA(P)100
90	2503-1034 Clamp, Switch, GP100			1	1
91	3600-1831 Screw, Set			1	1
92	3600-9094 Switch, Hall Sinking, 5 Meter Lead	1	1	1	1
	3600-9095 Switch, Hall Sinking, Male Conn	1	1	1	1
	3600-9092 Switch, Hall Sourcing, 5 Meter Lead	1	1	1	1
	3600-9093 Switch, Hall Sourcing, Male Conn	1	1	1	1
	2503-1025 5m Quick-disconnect Lead	1	1	1	1
93	1906-1024 Clamp, Switch, GP063	1	1		
94	0910-1262 SHCS 6-32 x .25, GP063	1	1		
95	0760-1020 Sealant, Loctite, #271	A/R	A/R	A/R	A/R
96	0910-1299 Adhesive, Loctite, #495	A/R	A/R	A/R	A/R
99	1906-1003 Block, Side, GPA063, JS1	2	2		
	1910-1003 Block, Side, GPA100, JS1			2	2
	1906-1006 Finger, Angular, GPA063, JS1	2	2		
	1910-1006 Finger, Angular, GPA100, JS1			2	2
	1906-1013 SHCS 4-40 x .75, GPA063, JS1	4	4		
	1075-1007 SHCS 8-32 x .88, GPA100, JS1			4	4
	1906-1012 Pin, Dowel, 3/32 x 3/4, GPA063, JS1	2	2		
99	1910-1012 Pin, Dowel, 5/32 x 1", GPA100, JS1			2	2
	1906-1003 Block, Side, GPA063, JS2	2	2		
	1910-1003 Block, Side, GPA100, JS2			2	2
	1906-1021 Finger, Angular, Flush, GPA063, JS2	2	2		
99	1910-1021 Finger, Angular, Flush, GPA100, JS2			2	2
	1906-1013 SHCS 4-40 x .75, GPA063, JS2	4	4		
	1075-1007 SHCS 8-32 x .88, GPA100, JS2			4	4
	1906-1012 Pin, Dowel, 3/32 x 3/4, GPA063, JS2	2	2		
	1910-1012 Pin, Dowel, 5/32 x 1", GPA100, JS2			2	2
	1906-1003 Block, Side, GPP063, JS3	2	2		
	1910-1003 Block, Side, GPP100, JS3			2	2
	1906-1007 Finger, Parallel, GPP063, JS3	2	2		
	1910-1007 Finger, Parallel, GPP100, JS3			2	2
	1906-1014 SHCS 4-40 x .88, GPP063, JS3	4	4		
	1910-1013 SHCS 8-32 x 1-1/8, GPP100, JS3			4	4
	1906-1011 Cover, Finger, GPP063, JS3	1	1		
	1910-1011 Cover, Finger, GPP100, JS3			1	1



NOTE: Options are shaded



**ROTARY ACTUATOR INSTRUCTIONS**

**Seal Replacement Cushioned Head Assembly**

1. Remove Head Assembly (#52) from Rotary Actuator Body.
  2. Replace O-Ring Seal (#11) and Cushion Seal (#62).
  3. Remove Cushion Adjustment Screw (#58) and replace O-Ring (#61).
- NOTE: Apply light coat of Magnalube-G grease to seals before reassembly.

**Piston Seal Replacement**

1. Remove fingers - (Angular Fingers-Remove the four screws from the Side Blocks. Slide the side blocks and Angular Fingers from the gripper assembly. Slide an Angular finger from the dowel pin pressed into the Side Block.)(Parallel Fingers-Remove the four screws from the Side Blocks and and Finger Cover. Remove the finger cover plate and side blocks. Slide the Parallel Fingers from the Dowel Pin on the Piston Shaft.)
2. Remove Dowel Pin (#14). Loosen SHCS (#19) from Plate Mount (#18) and remove the shaft.
3. Remove screws (#30). Remove the entire piston/guide shaft assembly from the housing (#40).
4. Remove Head Assembly.
5. Remove Piston and Rack Assembly parts: Plate Connector (#1), FHSCS (#2), Piston (#3), Guide Block (#4), U-Cup (#10), and Rack (#41).
6. Clean Piston, Rack and Pinion (#13). Install new U-cups (#10) onto Pistons and lubricate all components with Magnalube-G ® grease.

**Reassembly**

1. Insert Rack and Piston Assembly into the Housing (#40) bore. Make sure Guide Block (#4) is installed at the same time (See drawing A).
2. Center Piston Rack Assembly in the Housing and Install Pinion (#13) and Bearings (#7) with Pinion flat oriented as shown (See drawing B).
3. Install Bearing Plate Covers (#5) and Head Assembly.
4. Rotate Pinion to position Guide Block (#4) directly under the Backlash Adjustment Screw (#58) hole(s). (See drawing C).

5. Apply Loctite 242 to Adjustment Screw(s) (#58) and evenly install into the housing until they bottom out. Do not tighten. Rotate Pinion by hand and loosen or tighten both screws at an even rate to achieve desired backlash. Over tightening will result in binding.

**Testing**

1. Cycle the rotary actuator back and forth two times at full flow. Check for leakage, it should be zero.
2. Check breakaway per the chart below:

3/4" Bore	20 PSI or less breakaway
1" Bore	15 PSI or less breakaway
1-1/4" Bore	10 PSI or less breakaway

**ANGULAR FINGER DISASSEMBLY:**

1. Remove the four screws from the Side Blocks. Slide the side blocks and Angular Fingers from the gripper assembly. Slide an Angular finger from the dowel pin pressed into the Side Block.

**PARALLEL FINGER DISASSEMBLY:**

1. Remove the four screws from the Side Blocks and and Finger Cover. Remove the finger cover plate and side blocks. Slide the Parallel Fingers from the Dowel Pin on the Piston Shaft.

**HOUSING DISASSEMBLY:**

1. Remove Dowel Pin (#14).
2. Loosen SHCS (#19) from Plate Mount (#18) and remove from shaft.
3. Remove Screws (#30). Remove the entire piston/guide shaft assembly from the housing (#40).
4. Remove Screws (#09), remove Housing (#20).
5. Remove Quad Seal (#21) from the piston.
6. Loosen socket head cap screw (#29) to remove piston from piston shaft.
7. Remove piston from the stepped diameter of the piston shaft (For later reassembly note how the smaller of the two turned snouts of the piston

faces the washer placed on the stepped diameter of the piston shaft).

8. If needed remove magnet (#86) from the smaller of the two turned snouts of the piston (#22). (For later reassembly use a felt tip marker to note how the magnet is positioned).
9. Remove washer (#23) from stepped diameter of piston shaft.
10. Slide bumper (#24) over piston shaft to remove.
11. Slide the Shaft Guide (#25) over the piston shaft to remove.
12. Remove Quad-ring (#26) from the Shaft Guide (#25).
13. Slide Quad Seal (#21) from piston shaft.
14. Slide Bearing Sleeve (#27) from piston shaft (For later reassembly note how flanged side of the sleeve rests against the housing cover).
15. Remove housing cover (#20) from the stepped diameter end of the piston shaft.

### PISTON SHAFT ASSEMBLY

1. If applicable, press the dowel pin (#14) through Piston Shaft (#13) ensure that the dowel pin is centered in the piston shaft.
2. **Angular Grippers only**  
If applicable, press a dowel pin into each Side Block with an arbor press until it bottoms out in the side block. One hole of the side block will have a loose fit and the other an interference fit with the dowel pin, press the dowel pin into the hole with the interference fit.
3. Install housing cover (#40) over the stepped diameter end of the piston shaft and slide it up to the dowel pin.
4. Slide Bearing Sleeve (#27) onto piston shaft, flanged side of the sleeve should rest against the housing cover.
5. Lubricate Quad Seal (#21) with Magnalube "G" and slide over piston shaft until it seats against the bearing sleeve.
6. Lubricate and install Quad-ring (#26) onto the Shaft Guide (#25). Note: Inspect all quad seals after assembly to verify that there isn't a twist in the seal.
7. With stepped bore facing the housing cover slide the shaft guide over the piston shaft until it makes contact with the housing cover.
8. Slide bumper (#24) over piston shaft and seat it against the shaft guide.
9. Place washer (#23) onto stepped diameter of piston shaft.
10. If applicable install magnet (#86) onto the smaller of the two turned snouts of the piston (#13). (**NOTE:** Magnet must be positioned as it was before disassembly; see step #8 of housing disassembly. South pole of magnet must face toward gripper fingers for switch to function properly)
11. Insert piston onto the stepped diameter of the piston shaft so the smaller of the two turned snouts of the piston faces the washer placed on the stepped diameter of the piston shaft.
12. Secure piston to piston shaft with a socket head cap screw (#29). Use Loctite #272 on the screw.
13. Lubricate and install Quad Seal (#21) onto the piston.

### HOUSING ASSEMBLY:

1. Verify the bore of the housing is clear of any dirt or debris. Lubricate the bore of the Housing (#20) with a thin film of Magnalube "G".
2. Insert entire piston/guide shaft assembly into housing (#20) until the housing cover rests on top of the housing. Line up the holes in the housing with the holes in the housing cover. Note: On those models that the housing cover extends over the side extend that portion of the cover over the dovetail side of the housing.

### ANGULAR FINGER ASSEMBLY:

**Note: Place a thin layer of Christolube "MCG 200" on all mating parts of angular gripper before assembly.**

1. Slide an Angular finger over the dowel pin pressed into the Side Block. Position the dowel pin on the piston shaft through the open slot in the angular gripper and into the recess milled into the side block. Place a small amount of Loctite #222 on the SHCS then loosely secure the

side block to the housing. Do not tighten the SHCS at this time. Repeat the above step for the second half of the angular finger/slide block assembly. Squeeze both of the side blocks together to remove any sideplay from the fingers and tighten the four screws.

### PARALLEL FINGER ASSEMBLY:

**Note: Place a thin layer of Christolube "MCG 200" on all mating parts of parallel gripper before assembly.**

1. Insert the dowel pin on the piston shaft through the angled slot of the Parallel finger.  
Repeat the above step for the second angular finger/side block assembly. Loosely secure the side blocks and Finger Cover to the housing with four SHCS. Use Loctite #222 on the SHCS. Squeeze the two sideblocks together to remove any sideplay in the fingers and tighten the four socket head cap screws.

### INSPECTION:

1. Manually manipulate the jaws through a cycle to make sure it is properly assembled and does not have any sticking points before applying air. Clean the outside surfaces of the gripper with a cloth wetted with contact cleaner. **CAUTION do not spray contact cleaner into the lubricated gripper finger assembly.**

### MAINTENANCE

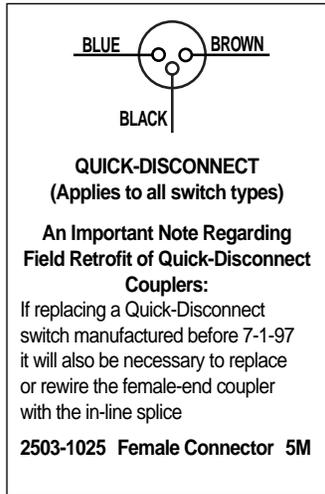
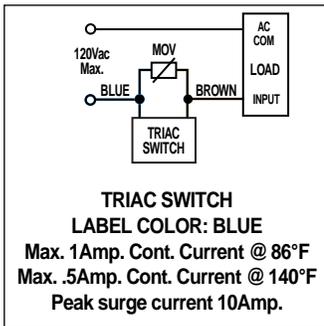
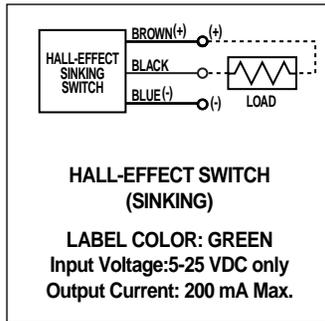
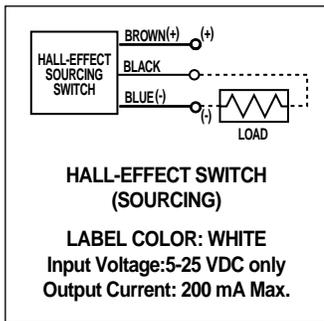
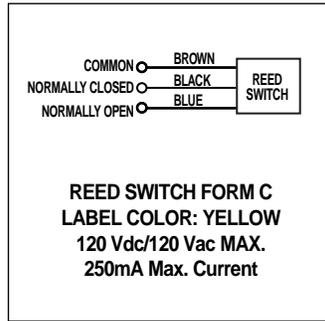
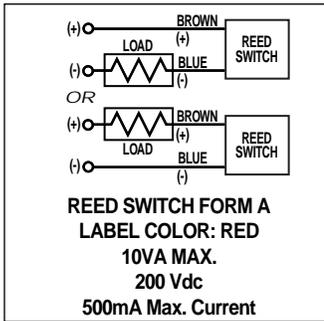
The unit should be kept as clean as possible, with special attention to the gripper jaws.

### LUBRICATION

All Tolomatic Grippers are prelubricated at the factory. To ensure maximum life, the following guidelines should be followed.

1. Filtration– We recommend the use of dry, filtered air in our products. 'Filtered air' means a level of 10 Micron or less. 'Dry' means air should be free of appreciable amounts of moisture. Regular maintenance of installed filters will generally keep excess moisture in check.
2. External Lubricators (optional)– The factory prelubrication of Tolomatic Grippers will provide optimal performance without the use of external lubrication. However, external lubricators can further extend service life of pneumatic actuators if the supply is kept constant. Oil lubricators, (mist or drop) should supply a minimum of 1 drop per 20 standard cubic feet per minute to the cylinder. As a rule of thumb, double that rate if water in the system is suspected. Demanding conditions may require more lubricant.  
If lubricators are used, we recommend a non-detergent, 20cP @ 140°F 10-weight lubricant. Optimum conditions for standard cylinder operation is +32° to +125°F (+0° to 51.6°C).  
**NOTE: Use of external lubricators will wash away the factory installed lubrication. External lubricants must be maintained in a constant supply or the results will be a dry actuator prone to failure.**
3. Sanitary environments– Oil mist lubricators must dispense 'Food Grade' lubricants to the air supply. Use fluids with ORAL LD50 toxicity ratings of 35 or higher such as Multitherm® PG-1 or equivalent. Demanding conditions can require a review of the application.

**UNIVERSAL SWITCH WIRING DIAGRAMS AND LABEL COLOR CODING**



**NOTE:** The side of the switch with the groove indicates the sensing surface. This must face toward the magnet.

For complete Switch Performance Data, refer to the Tolomatic Pneumatic Products Catalog 9900-4000

**SWITCHES**

On assembled cylinder, Secure Switch to open port side of gripper with a Clamp and Screw.

**NOTE:** For Hall Effect Switch Magnet, be sure the S pole of the magnet (indicated with black dot) is facing toward the switch.

**TO ORDER RETROFIT KITS:** SW (then the model number and base size, and code for type of switch needed)  
**EXAMPLE: SWGPA063KY**

All Switch Kits come with 1 switch and mounting hardware.

**QUICK-DISCONNECTS:**

2503-1025 Female Connector 5M

SWITCH TYPE CODE	
<b>KY</b>	(Hall-effect Switch (Sinking) 5-meter lead)
<b>KX</b>	(Hall-effect Switch (Sinking) 5-meter lead and QD)
<b>TY</b>	(Hall-effect Switch (Sourcing) 5-meter lead)
<b>TX</b>	(Hall-effect Switch (Sourcing) 5-meter lead and QD)



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