

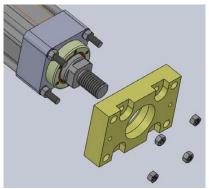


96mm & 96 Press Series

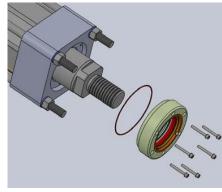
Tolomatic recommends returning the RSX for most repairs. There are a few procedures that can be done in the field. See the following instructions:

RSX Seal Cartridge Replacement

- Lock out/Tag out and safely secure the actuator 1.
- 2. Retract the Thrust Tube if possible
- Remove tooling from the Rod End of the actuator 3.
- Remove Front Flange mount if equipped 4.



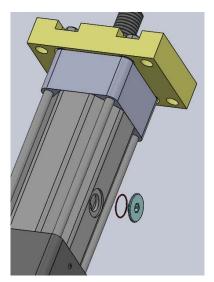
- 5. Remove any debris from around the Seal Cartridge
- 6. Remove the six Cartridge Retainer Bolts and Sealing Washers from the Seal Cartridge
- 7. Slide the old Seal Cartridge off the Thrust Tube
- 8. Install new O-Ring on new Seal Cartridge
- 9. Carefully slide the new Seal Cartridge onto the Thrust Tube and align to the bolt holes in the Head
- 10. Carefully install new Sealing Washers on the new Cartridge **Retainer Bolts**
- 11. Apply Loctite 242 to Cartridge Retainer Bolts and install into new Seal Cartridge



- 12. Torque Cartridge Retainer Bolts to 50 in-lbf (6 N-m)
- 13. Reinstall the Front Flange if applicable
 - Apply Loctite 271 to the tie rod threads a.
 - RSX096, torque to 90 ft-lbf (122 N-m) RSX096P, torque to 110 ft-lbf (150 N-m)

RSX Relubrication

1. Remove the Lube Access Cover from the Cylinder Body



- 2. Extend or retract the Thrust Tube so that the Grease Zerk on the Nut Assembly is accessible through the access port
- Pump grease into the Grease Zerk See instructions on next 3. page for lubrication interval and quantity
 - a. Standard grease type is Mobilith 220 unless otherwise specified
- 4. Fully extend and retract the Thrust Tube to distribute the arease
- 5. Verify the O-Ring is in place then reinstall the Tube Access Cover onto the Cylinder Body

(Continues)

b.

2171-4002 05

Parts Sheet

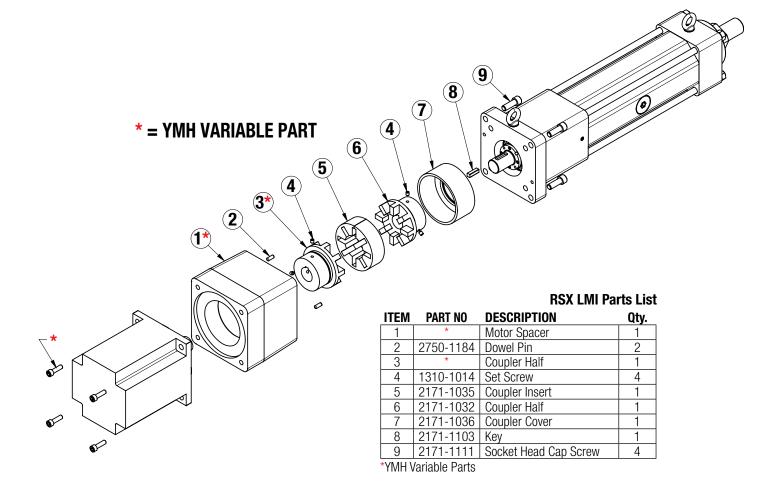
RE-LUBRICATION RECOMMENDATION:

Lubrication requirements for electric actuators depend on the motion cycle (velocity, force, duty cycle), type of application, ambient temperature, environmental surrounding and various other factors.

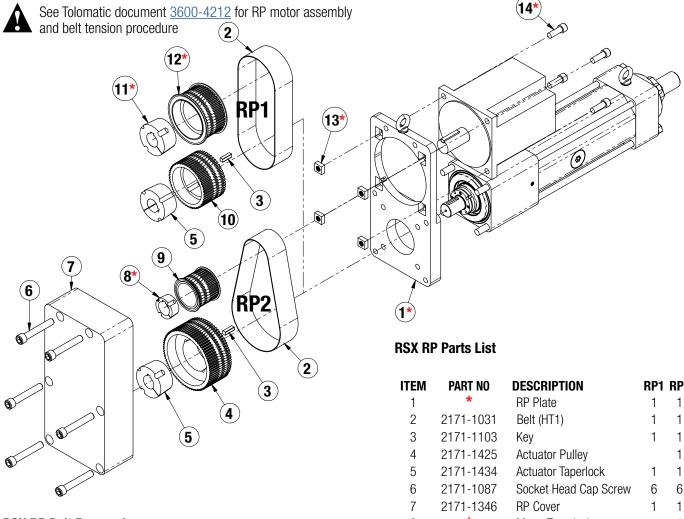
For many general purpose applications, Tolomatic ball screw actuators are typically considered lubricated for life unless otherwise specified, such as those actuator models outfitted with a re-lubrication feature. For roller screw or ball screw actuators outfitted with a re-lubrication feature, Tolomatic recommends to re-lubricate the actuator at least once per year or every 1,000,000 cycles, whichever comes first, to maximize service life. For more demanding applications such as pressing, high frequency or other highly stressed applications, the re-lubrication interval for these actuators will vary and will need to be more frequent. In these demanding applications, it is recommended to execute at least 5 full stroke moves every 5,000 cycles of operation (or more frequent if possible) to re-distribute the grease within the actuator.

Re-lubricate with Tolomatic Grease into the grease port located on the side of the actuator.

	RSX096(P)			
Quantity (g)	9.5 + (0.025 x Stroke ^{mm})			
Quantity (oz)	$0.34 + (0.022 \text{ x Stroke}^{in})$			
Stroke ^{mm} = Stroke length in millimeters				
Stroke ⁱⁿ = Stroke length in inches				



RSX RP Parts List

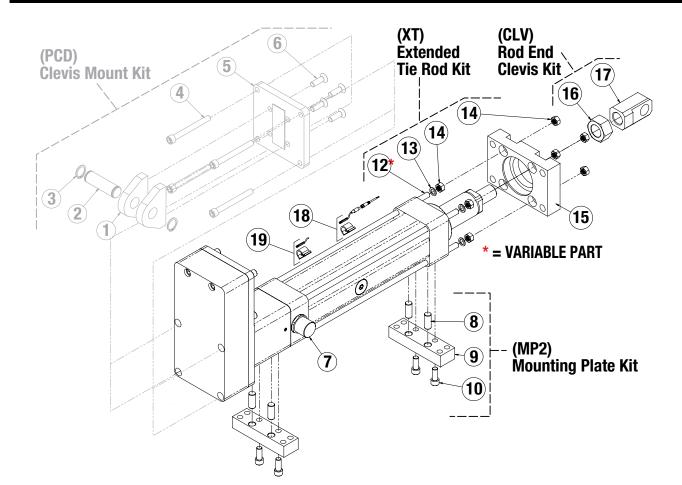


RSX RP Belt Removal

- 1. Lock out/Tag out and safely secure actuator to prevent accidental start up.
- 2. Remove the RP Cover (#12).
- 3. Loosen the motor mount bolts to remove tension from the Belt (#15).
- 4. Remove the old Belt (#15).

ITEM	PART NO	DESCRIPTION	RP1	RP2	
1	*	RP Plate	1	1	
2	2171-1031	Belt (HT1)	1	1	
3	2171-1103	Кеу	1	1	
4	2171-1425	Actuator Pulley		1	
5	2171-1434	Actuator Taperlock	1	1	
6	2171-1087	Socket Head Cap Screw	6	6	
7	2171-1346	RP Cover	1	1	
8	*	Motor Taperlock		1	
9	*	Motor Pulley		1	
10	2171-1426	Actuator Pulley	1		
11	*	Motor Taperlock	1		
12	*	Motor Pulley	1		
13	*	Square Nuts	4	4	
14	*	Motor Fasteners	4	4	
*YMH Variable Parts					

YMH Variable Parts



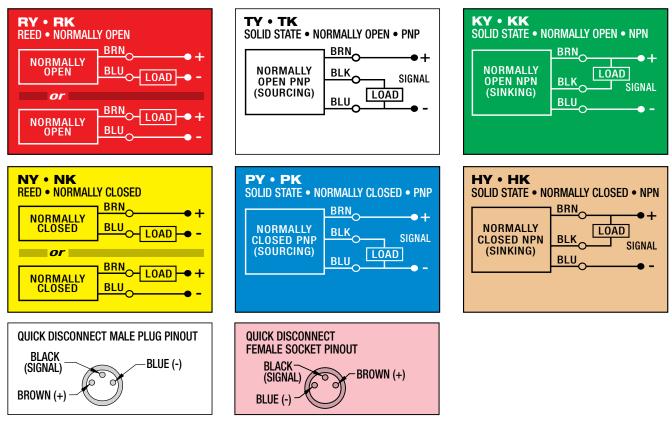
ITEM or Code	PART NO	DESCRIPTION	QTY
PCD	2171-9019	Clevis Mount Kit	
1	2171-1084	Bracket	2
2	2171-1091	Pin	1
3	2171-1093	Retaining Ring	2
4	2171-1101	Socket Head Cap Screw	4
5	2171-1090	Plate	1
6	2171-1112	Flat Head Cap Screw	4
TRR	2171-9009	Trunnion Mount Option	
7	2171-9009	Trunnion Plate	1
MP2	2171-9017	Mounting Plate Kit	
8	2171-1110	Dowel Pin	4
9	2171-1109	Bracket	2
10	2171-1088	Socket Head Cap Screw	4
XT	*	Extended Tie Rod Kit	
12	*	Tie Rod	4
13	2171-1142	Washer	4
14	2171-1047	Hex Nut	4
FFG	2171-1062	Front Flange Option	
15	2171-1062	Flange Plate	1
CLV	2171-9013	Rod End Clevis Kit	
16	2171-1114	Hex Nut	1
17	2171-1113	Clevis	1

ITEM Config. Code DESCRIPTION

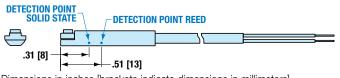
SWITCHES WITH QUICK-DISCONNECT COUPLERS		
18	SWRSX096RK	Reed Switch, SPST Normally Open
	SWRSX096NK	Reed Switch, SPST Normally Closed
	SWRSX096TK	Solid State Switch, PNP (Sourcing)
		Normally Open
	SWRSX096KK	Solid State Switch, NPN (Sinking)
10		Normally Open
	SWRSX096PK	Solid State Switch, PNP (Sourcing)
	SWIISAUBUER	Normally Closed
	SWRSX096HK	Solid State Switch, NPN (Sinking)
	SWRSX090HK	Normally Closed
NOTE:	Includes retaine	ed hardware & female connector for
quick-o	disconnect	
SWIT	CHES WITHOUT	QUICK-DISCONNECT COUPLERS
	SWRSX096RY	Reed Switch, SPST Normally Open
	SWRSX096NY	Reed Switch, SPST Normally Closed
19	SWRSX096TY	Solid State Switch, PNP (Sourcing)
		Normally Open
	SWRSX096KY	Solid State Switch, NPN (Sinking)
		Normally Open
	SWRSX096PY	Solid State Switch, PNP (Sourcing)
		Normally Closed
	SWRSX096HY	Solid State Switch, NPN (Sinking)
		Normally Closed

*Variable Parts

SWITCH WIRING DIAGRAMS AND LABEL COLOR CODING (CE and RoHS Compliant)



SWITCH DETECTION POINT



Dimensions in inches [brackets indicate dimensions in millimeters]

SWITCH INSTALLATION



Place switch bracket onto any one of the four tie rods that run the length of the extruded tube. Insert the switch with set screw and the word "Tolomatic" facing up and slide it the mating slot on the bracket. Position the bracket with the switch to the exact location desired, with the bracket tight to the surface of the extrusion, then lock the bracket securely into place by tightening the set screw with the Allen wrench provided. Then tighten the switch into the bracket with a small slotted screwdriver.





COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 =

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