

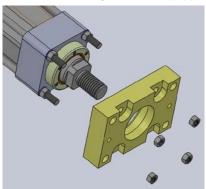
2171-4006_01

RSX128 Extreme Force Electric Linear Actuator

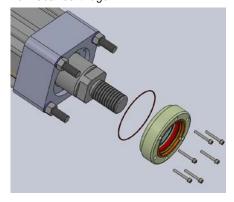
Tolomatic recommends returning the RSX for most repairs. There are a few procedures that can be done in the field. See the following instructions:

RSX Seal Cartridge Replacement

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



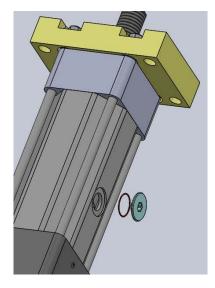
- 5. Remove any debris from around the Seal Cartridge
- 6. Remove the six Cartridge Retainer Bolts and Sealing Washers from the Seal Cartridge
- 7. Slide the old Seal Cartridge off the Thrust Tube
- 8. Install new O-Ring on new Seal Cartridge
- 9. Carefully slide the new Seal Cartridge onto the Thrust 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 80 in-lbf (9 N-m)
- 13. Reinstall the Front Flange if applicable
 - a. Apply Loctite 271 to the tie rod threads
 - b. RSX128, torque to 220 ft-lbf (298 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
- 3. Pump grease into the Grease Zerk See instructions on next page for lubrication interval and quantity
 - Standard grease type is Mobilith 220 unless otherwise specified
- 4. Fully extend and retract the Thrust Tube to distribute the grease
- 5. Verify the O-Ring is in place then reinstall the Tube Access Cover onto the Cylinder Body

(Continues)

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.

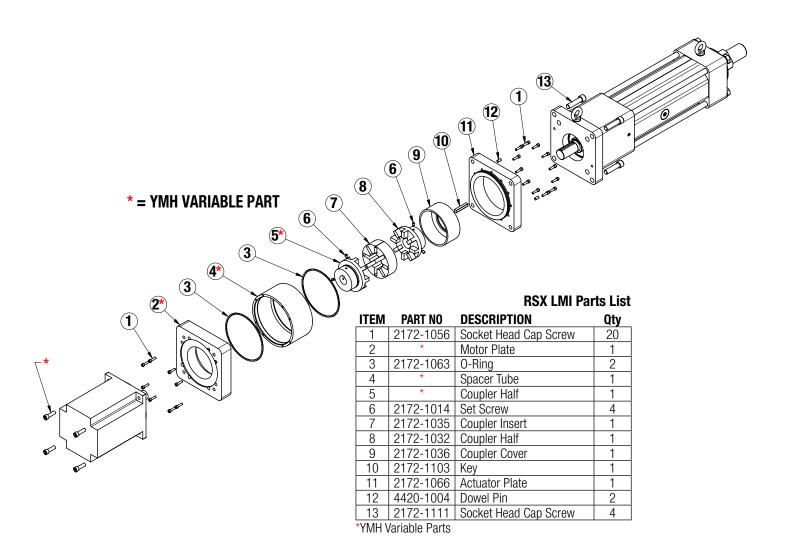
For many general purpose applications, Tolomatic ball screw actuators are typically considered lubricated for life unless otherwise specified, such as those actuator models outfitted with a re-lubrication feature. For roller screw or ball screw actuators outfitted with a re-lubrication feature, Tolomatic 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.

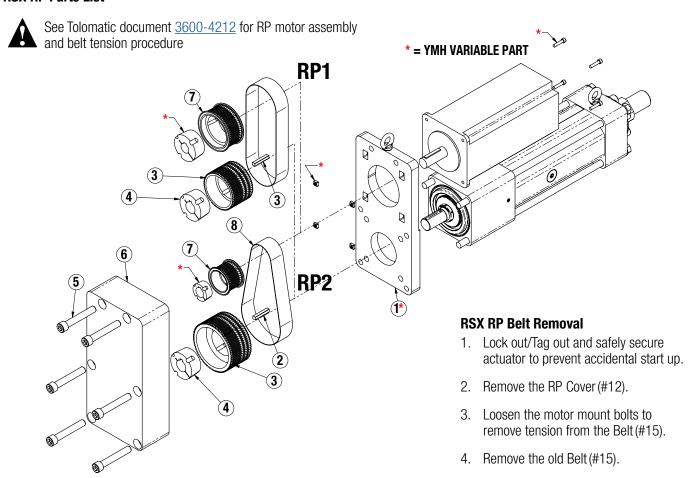
Re-lubricate with Tolomatic Grease into the grease port located on the side of the actuator.

	RSX128(P)
Quantity (g)	12.0 + (0.027 x Stroke ^{mm})
Quantity (oz)	0.42 + (0.024 x Stroke ⁱⁿ)

Stroke^{mm} = Stroke length in millimeters Strokeⁱⁿ = Stroke length in inches



RSX RP Parts List

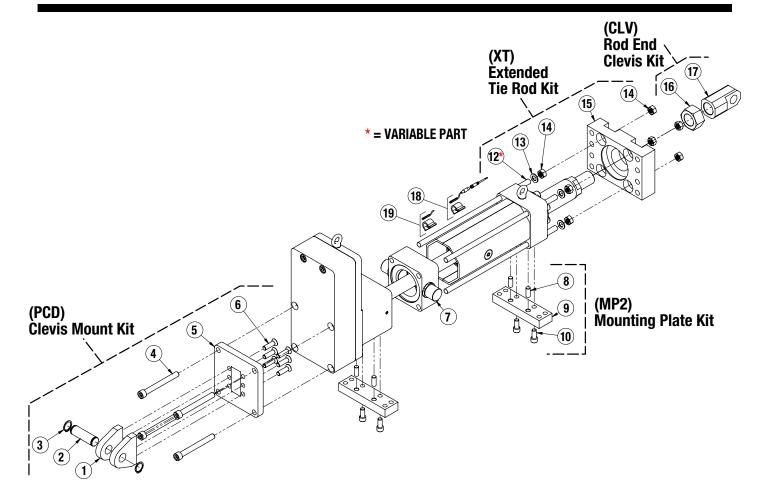


RSX RP Parts List

ITEM	PART NO	DESCRIPTION	RP1	RP2
1	*	RP Plate	1	1
2	2172-1103	Key	1	1
3	2172-1026	Actuator Pulley	1	
J	2172-1025	Actuator Pulley		1
4	2172-1268	Taper Lock Bushing	1	1
5	2172-1087	Socket Head Cap Screw	6	6

ITEM	PART NO	DESCRIPTION	RP1	RP2
6	2172-1446	RP Cover	1	1
7	2172-1130	Motor Pulley	1	1
8	2172-1431	Belt	1	1

*YMH Variable Parts



ITEM or Code	PART NO	DESCRIPTION	ОТУ
Couc	FANT NU	DESCRIPTION	QII
DOD	0470 0040	Olassia Massat I/it	

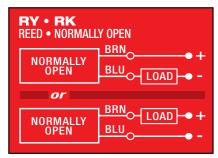
FAILI NO	DESCRIE LION	Q I I
2172-9019	Clevis Mount Kit	
2172-1084	Bracket	2
2172-1091	Pin	1
2172-1093	Retaining Ring	2
2172-1101	Socket Head Cap Screw	4
2172-1090	Plate	1
2172-1112	Flat Head Cap Screw	4
2170-1085	Trunnion Mount Option	
2170-1085	Trunnion Plate	1
2172-9017	Mounting Plate Kit	
2172-1110	Dowel Pin	4
2172-1109	Bracket	2
2172-1088	Socket Head Cap Screw	4
*	Extended Tie Rod Kit	
*	Tie Rod	4
2172-1142	Washer	4
2172-1047	Hex Nut	4
2172-1062	Front Flange Option	
2172-1062	Flange Plate	1
2172-9013	Rod End Clevis Kit	
2172-1114	Hex Nut	1
2172-1113	Clevis	1
	2172-9019 2172-1084 2172-1091 2172-1093 2172-1101 2172-1090 2172-1112 2170-1085 2170-1085 2172-1110 2172-1110 2172-1109 2172-1088 * 2172-1047 2172-1047 2172-1062 2172-1062 2172-9013 2172-1114	2172-9019 Clevis Mount Kit

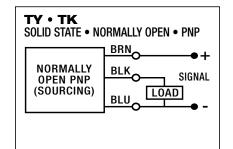
ITEM Config. Code DESCRIPTION

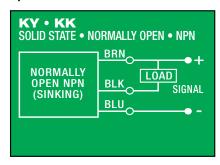
SWITCHES WITH QUICK-DISCONNECT COUPLERS		
	SWRSX096RK	Reed Switch, SPST Normally Open
	SWRSX096NK	Reed Switch, SPST Normally Closed
	SWRSX096TK	Solid State Switch, PNP (Sourcing)
		Normally Open
18	SWRSX096KK	Solid State Switch, NPN (Sinking)
10	SWIISKUBUKK	Normally Open
	SWRSX096PK	Solid State Switch, PNP (Sourcing)
	SWIISKUBUI K	Normally Closed
	SWRSX096HK	Solid State Switch, NPN (Sinking)
	SWIIOAUBUIK	Normally Closed
NOTE	: Includes retaine	ed hardware & female connector for
quick-	disconnect	
SWI	<u> CHES WITHOUT</u>	QUICK-DISCONNECT COUPLERS
	SWRSX096RY	Reed Switch, SPST Normally Open
	SWRSX096NY	Reed Switch, SPST Normally Closed
	SWRSX096TY	Solid State Switch, PNP (Sourcing)
		Normally Open
19	SWRSX096KY	Solid State Switch, NPN (Sinking)
19		Normally Open
	SWRSX096PY	Solid State Switch, PNP (Sourcing)
		Normally Closed
	SWRSX096HY	Solid State Switch, NPN (Sinking)
	SWINGAUGUNT	Normally Closed

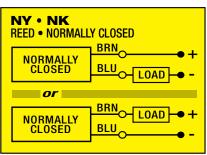
*Variable Parts

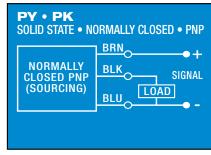
SWITCH WIRING DIAGRAMS AND LABEL COLOR CODING (CE and RoHS Compliant)

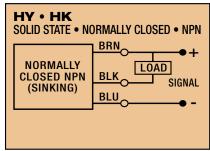


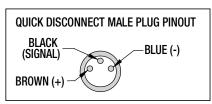


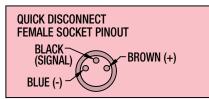




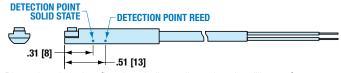








SWITCH DETECTION POINT



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
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