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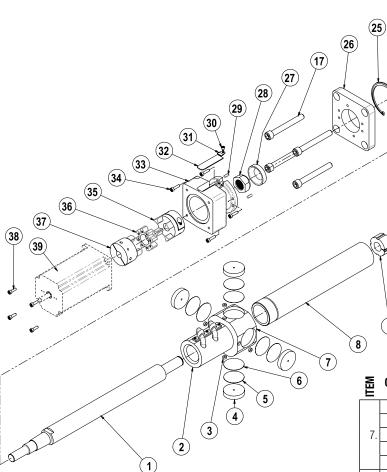
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(19)

Rod Screw Actuators (ST Option)



RSA64 4-inch (100mm) body size



ITEM	PART NO. OR CONFIG. CODE	DESCRIPTION	BN(L)02	BN(L)04	BN(L)53	BNH(L)02	BNM05	BNM10	BNM20	BZ10	SN04**
† 1.	RLSRSA64	LEADSCREW	1	1	1	1	1	1	1	1	1
	2164-1015	NUT	1								
	2164-1014	NUT		1							
	2164-1016	NUT			1						
	1164-1257	NUT				1					
2.	2755-1071	NUT					1				
	2755-1084	NUT						1			
	2755-1445	NUT							1		
	2164-1024	NUT								1	
	2140-1013	NUT									1
3.	2403-1008	MAGNET	4	4	4	4	4	4	4	4	4
4.	2164-1120	COUPLER/NUT BEARING	4	4	4	4	4	4	4	4	4
5.	1164-1128	SHIM, 0.002" THK				AS F	REQU	IRED			
6.	1164-1129	SHIM, 0.005" THK				AS F	REQU	IRED			

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ITEM	PART NO. OR CONFIG. CODE	DESCRIPTION	BN(L)02	BN(L)04	BN(L)53	BNH(L)02	BNM05	BNM10	BNM20	BZ10	****
	2164-1117	NUT COUPLER	1								
	2164-1116	NUT COUPLER		1							
7.	2164-1115	NUT COUPLER			1					1	1
	1164-1260	NUT COUPLER				1					
	1164-1552	NUT COUPLER					1	1	1		
†8.	TRARSA64	THRUST ROD (US STD)	1	1	1	1	1	1	1	1	1
9.	2164-1031	GUIDE BUSHING	1	1	1	1	1	1	1	1	1
10.	2140-1029	BUMPER	1	1	1	1	1	1	1	1	1
11.	2140-1018	WASHER	1	1	1	1	1	1	1	1	1
12.	1207-1017	RETAINING RING	1	1	1	1	1	1	1	1	1
13.	2140-1060	BEARING SLEEVE	1	1	1	1	1	1	1	1	1
14.	2140-1023	BEARING SLEEVE	1	1	1	1	1	1	1	1	1
15.	2755-1010	BUMPER	1	1	1	1	1	1	1	1	1
16.	1164-1002	HEAD (U.S. STD)	1	1	1	1	1	1	1	1	1
10.	2140-1002	HEAD (METRIC)	1	1	1	1	1	1	1	1	1

^{**} Discontinued Jan. 1, 2022. Email help@tolomatic.com for available replacement parts.

(21)

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NOTE: HT option actuators cannot be field repaired without proper assembly fixtures return to Tolomatic for repairs or maintenance

NOTE: The RSA had design changes in 2003 and 2005. Some components will not be compatible with current parts. Contact Tolomatic if you are attempting repairs on units manufactured before 2005.

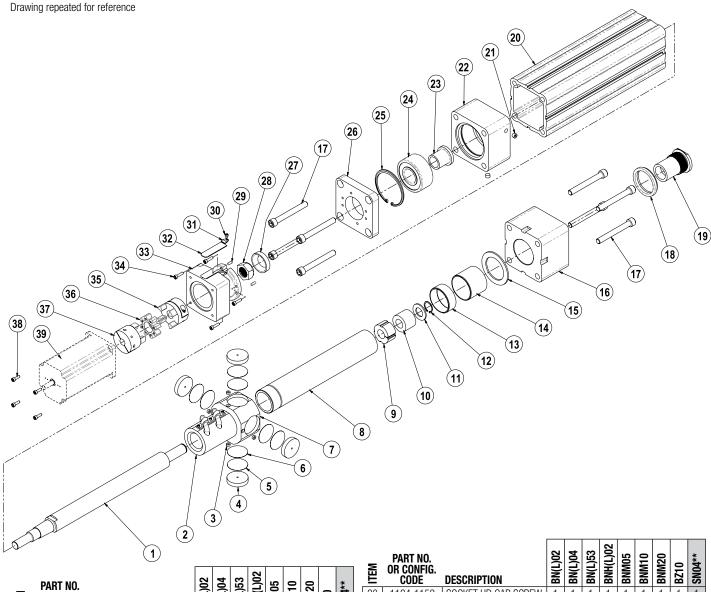
† Must indicate stroke length when ordering. Order with configurated code: RLS RSA64 _____

EXAMPLE: RLS Replacement Lead Screw Nut Style -Stroke - High Torque or Model & Size

& Size Length Standard Torque

Assembled with Nut ON Leadscrew (required for RN)

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ITEM	PART NO. OR CONFIG. CODE	DESCRIPTION	BN(L)02	BN(L)04	BN(T)23	BNH(L)02	BNM05	BNM10	BNM20	BZ10	SN04**
17.	2212-1107	SOCKET HD CAP SCREW	8	8	8	8	8	8	8	8	8
18.	2140-1030	WIPER	1	1	1	1	1	1	1	1	1
19.	1164-1016	ROD END (U.S. STD)	1	1	1	1	1	1	1	1	1
19.	2140-1027	ROD END (METRIC)	1	1	1	1	1	1	1	1	1
† 20.	RTBRSA64	CYLINDER BODY	1	1	1	1	1	1	1	1	1
21.	1150-1547	PIPE FITTING	2	2	2	2	2	2	2	2	2
22.	1164-1037	BEARING PLATE (U.S. STD)	1	1	1	1	1	1	1	1	1
	2164-1037	BEARING PLATE (METRIC)	1	1	1	1	1	1	1	1	1
23.	1164-1044	LEADSCREW SLEEVE	1	1	1	1	1	1	1	1	1
24.	2140-1022	BEARING	1	1	1	1	1	1	1	1	1
25.	2140-1021	RETAINING RING	1	1	1	1	1	1	1	1	1
26.	2164-1038	BEARING PLATE CAP	1	1	1	1	1	1	1	1	1
27.	1164-1014	WASHER	1	1	1	1	1	1	1	1	1
28.	1164-1013	NUT	1	1	1	1	1	1	1	1	1
29.	1820-1003	DOWEL PIN	2	2	2	2	2	2	2	2	2

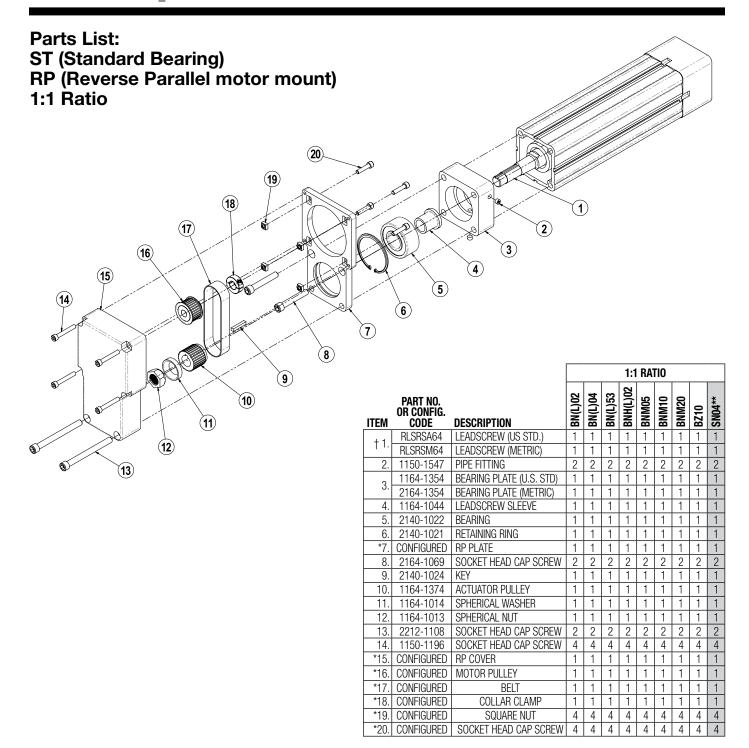
ITEM	PART NO. OR CONFIG. CODE	DESCRIPTION	BN(L)02	BN(L)04	BN(L)53	BNH(L)05	BNM05	BNM10	BNM20	BZ10	SN04**
30.	1124-1159	SOCKET HD CAP SCREW	1	1	1	1	1	1	1	1	1
31.	1906-1022	COVER CLAMP	1	1	1	1	1	1	1	1	1
32.	3410-1120	COVER	1	1	1	1	1	1	1	1	1
*33.	CONFIGURED	MOTOR SPACER	1	1	1	1	1	1	1	1	1
*34.	CONFIGURED	SOCKET HD CAP SCREW	4	4	4	4	4	4	4	4	4
*35.	CONFIGURED	COUPLER HALF	1	1	1	1	1	1	1	1	1
*36.	3600-6192	SPIDER	1	1	1	1	1	1	1	1	1
*37.	CONFIGURED	COUPLER HALF	1	1	1	1	1	1	1	1	1
*38.	CONFIGURED	SOCKET HD CAP SCREW	4	4	4	4	4	4	4	4	4
*39.	CONFIGURED	MOTOR	1	1	1	1	1	1	1	1	1

^{*} Part number varies depending on YMH (Your Motor Here). Contact help@tolomatic.com for replacement part number.

NOTE: HT option actuators cannot be field repaired without proper assembly fixtures - return to Tolomatic for repairs or maintenance

† Must indicate stroke length when ordering. Order with configurated code: RILS RSA64 ____ SIK___ SIT NIX Assembled EXAMPLE: RLS RSA64 BN05 SK21 · 25 ST with Nut ON Replacement Lead Screw Nut Style -Stroke - High Torque or Leadscrew Model & Size Length Standard Torque & Size (required for RN)

^{**} Discontinued Jan. 1, 2022. Email help@tolomatic.com for available replacement parts.

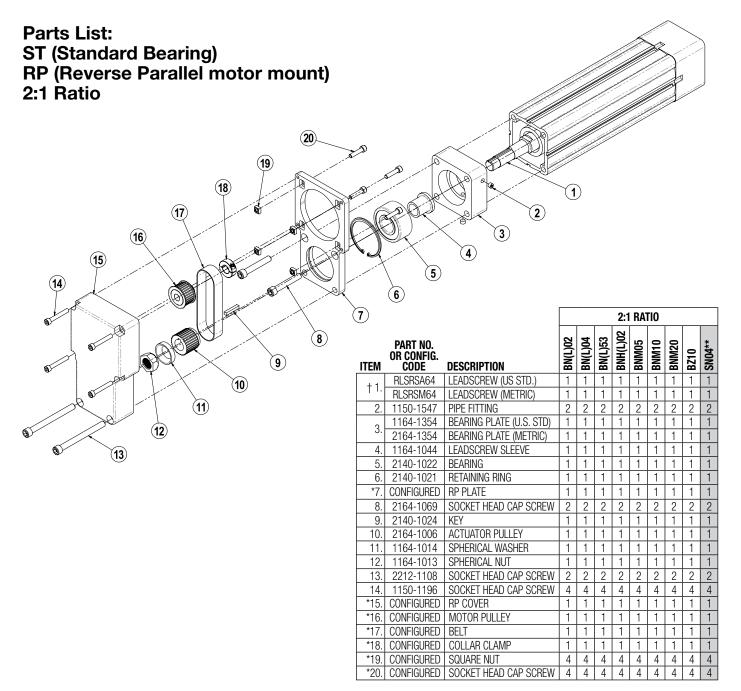


^{*} Part number varies depending on YMH (Your Motor Here). Contact help@tolomatic.com for replacement part number.

NOTE: Drawing shows components related to RP (reverse parallel) model only. For components not shown above of the RSA ST refer to the LMI (Inline) model listing (page 1).

† Must indicate stroke length when ordering. Order with configurated code: RILS RISA64 ____ SK___ ST NX Assembled **EXAMPLE: RLS** RSA64BN05 with Nut ON Replacement Lead Screw Stroke High Torque or Nut Style -Leadscrew Model & Size & Size Length Standard Torque (required for RN)

^{**} Discontinued Jan. 1, 2022. Email help@tolomatic.com for available replacement parts.



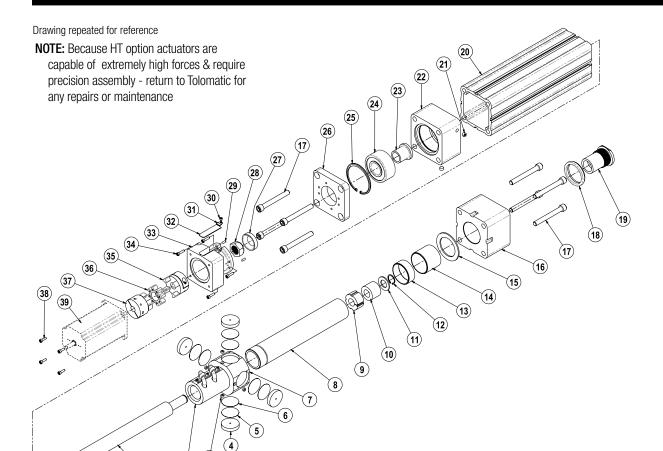
 $^{^\}star$ Part number varies depending on YMH (Your Motor Here). Contact help@tolomatic.com for replacement part number.

† Must indicate stroke length when ordering. Order with configurated code: RILS RSA64 SIZE SIX NX

EXAMPLE: RILS RSA64 BN05 SIX 21 25 SIX NX

Replacement Lead Screw Nut Style Stroke High Torque or Length Standard Torque (required for RN)

^{**} Discontinued Jan. 1, 2022. Email help@tolomatic.com for available replacement parts. NOTE: Drawing shows components related to RP (reverse parallel) model only. For components not shown above of the RSA ST refer to the LMI (Inline) model listing (page 1).



DISASSEMBLY INSTRUCTIONS

Begin with a clean work area. Be sure all replacement parts are present and have no visual damage or defects. The following tools are recommended for proper disassembly and assembly.

(2)

- Allen wrench set
- Socket wrench & socket set
- Retaining ring pliers
- 1. Remove motor and motor mounting hardware:

LMI, Solid Nut/Ball Nut:

Remove components in the following order:

- 1) Remove Cover by loosening Screw.
- 2) Loosen the coupler screw closest to the actuator.
- 3) Remove Motor Mount Fasteners and Motor/Coupler Assembly
- 4) Remove Motor Spacer Fasteners and Motor Spacer

LMI, Roller Nut:

Remove components in the following order:

- 1) Remove Cover by loosening Screw.
- 2) Loosen the coupler screw closest to the actuator.
- 3) Remove Motor Mount Fasteners and Motor/Coupler Assembly
- 4) Remove Motor Spacer Fasteners and Motor Spacer
- 5) Remove the Adapter Plate by removing the Socket Head Cap Screws.

RP, Solid Nut/Ball Nut:

Disassemble the RP [Reverse Parallel] assembly in the following order:

1) Loosen the Motor Mount Fasteners to remove belt tension,

- 2) Remove RP Cover by removing the six Socket Head Cap Screws,
- 3) Remove Belt,
- 4) Remove the motor by removing the Motor Mount Fasteners and the Square Nuts.
- 5) Remove the RP Plate by removing two Socket Head Cap Screws. Note: the Retaining Ring is part of the RP Plate. A portion of the Bearing will be protruding from the Bearing Plate. The Bearing Plate is no longer secured to the actuator body.
- 2. Separate Cylinder Body from Bearing Plate:

LMI, All Nuts: Remove the 4 Socket Head Cap Screws that hold the Bearing Plate to the Cylinder Body.

RP, Solid Nut/Ball Nut: There are no screws to remove the Bearing Plate since the screws were removed during RP motor and motor mount hardware removal.

LMI, RP, All Nuts: Slide the Cylinder Body away from Bearing Plate and off of the Nut Coupler /Thrust Tube assembly.

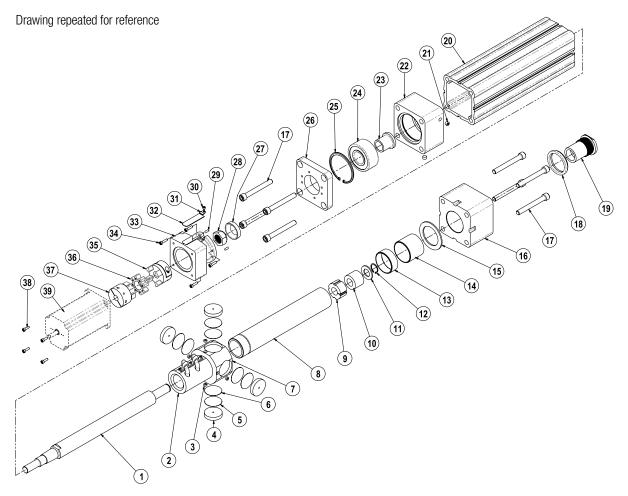
Caution: Mark the location of the 4 Nut Coupler Bearings and Shims relative to the Cylinder Body. These Nut Coupler Bearings and Shims are fitted at the factory and their orientation is critical when reassembling the actuator.

If needed, the non-motor end Head can also be removed from the Cylinder Body by removing the 4 Socket Head Cap Screws.

Remove the Thrust Tube from the Nut Coupler/Housing: The Thrust Tube is threaded to the Nut Coupler/Housing and held in place with Loctite. To remove the Thrust Tube, slide the O-Ring off the end of the Thrust Tube, then apply heat at the interface between

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the Nut Coupler/Housing and Thrust Tube, until Loctite becomes pliable enough to release the threads. Place a wrench on the flats of the machined Rod End and turn counterclockwise to unscrew the Thrust Tube from the Nut Coupler/Housing. To remove the Rod End from the Thrust Tube place Thrust Tube into vise, apply heat to the threaded joint to make Loctite pliable then use wrench on flats of Rod End to remove.

4. Remove the Leadscrew from the Nut Assembly:

Solid Nut/Ball Nut: Remove the Bearing Sleeve from the Leadscrew. **Ball Nut:** *Caution is required if removal of the Nut Assembly or Leadscrew is required. Contact the factory for available parts and procedures.

Solid Nut: The Leadscrew can be threaded out of the Nut Assembly at this point. If leadscrew worn, a new Nut Assembly must be ordered.

5. Remove the Leadscrew/Roller Nut from the Bearing Plate: Secure the body of the Leadscrew/Roller Nut in a machinist vice or equivalent smooth jaw vice then remove the Lock Nut. NOTE: Lock Nut for the Leadscrew/Roller Nut requires special tooling for removal. For a Leadscrew/Roller Nut, remove the Spacer and Bearing Seal. Support the inner race of Bearing and press the Leadscrew/Roller Nut out of the Leadscrew Sleeve. There is a mating taper interface between the Leadscrew Sleeve and the Leadscrew/Roller Nut.

 Remove Bearing from the Bearing Plate:
 Solid Nut/Ball Nut: Remove the Retaining Ring and press the Bearing out of the Bearing Plate as it is secured in place with retain-

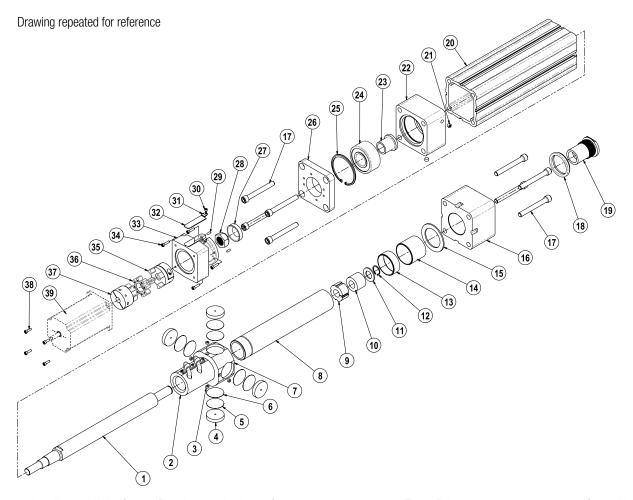
ing compound.

ASSEMBLY INSTRUCTIONS

- Sub-assemble Wiper and Bearing into Head: Install Wiper with the lip on inside diameter facing outward into the groove in the Head. Press the Bearing Sleeve from opposite end of Head until it is flush to surface of Head.
- Sub-assemble the Bearing into Bearing Plate:
 Solid Nut/Ball Nut: Press Leadscrew Sleeve into main Bearing.
 Apply Loctite 641 retaining compound to OD of the Bearing and ID of the Bearing Plate and install Bearing into the Bearing Plate. LMI only, install the Snap Ring.
- Install Bearing Plate assembly onto leadscrew/nut:
 LMI, Solid Nut/Ball Nut: Install Leadscrew into the Leadscrew
 Sleeve in Bearing Plate assembly. Apply Loctite 242 to the threads of the Leadscrew then locate Washer and Locknut over Leadscrew.
 Torque the Lock Nut to 175 ft-lbs (237 N-m), hold Leadscrew in machinist vice as necessary.

LMI, Rollerscrew: From the motor end of the Leadscrew/Roller Nut slide the Nut Housing Cover onto the Leadscrew/Roller Nut so it fits over roller nut. Install the Leadscrew/Roller Nut into the Leadscrew Sleeve in Bearing Plate assembly. Install the Bearing Seal and Spacer onto Leadscrew/Roller Nut and secure using Lock Nut. Note: Lock Nut requires special tool to install.

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- Install nut with Nut Coupler/Housing onto leadscrew/nut: Solid Nut/Ball Nut: Thread the Nut Assembly onto the Leadscrew. Threaded end of the Nut Assembly is away from motor end of the Leadscrew.
- Assemble Bushing onto non-motor end of leadscrew/nut:
 Solid Nut/Ball Nut: Slide the leadscrew Bushing, Bumper, Washer onto non-motor end of the Leadscrew and secure using Retaining Ring.
- Grease leadscrew/nut and ID of the Thrust Tube with the following grease:
 - Ballnut/Roller nut Units: Mobilith SHC220 grease
 - Bronze Nut Units: Cheveron SRI NLGI2 grease
 - Solid Nut Units: RheoGel TEK 664 grease

For special lubrication option grease, email help@tolomatic.com

- Install Thrust Tube onto Nut Coupler/Housing:
 Apply Loctite 270 to OD threads on Thrust Tube and assemble Thrust Tube to Nut Coupler/Housing.
- Grease ID of Cylinder Body with a coating of appropriate grease, and install leadscrew/nut assembly into the Cylinder Body. *Make sure to orient Nut Housing Bearing with respect to tube the same as were removed.
- 9. Attach Head and Bearing Plate assembly to the Cylinder Body and align prior to tightening:

LMI, Solid Nut/Ball Nut:

A. Align motor end Bearing Plate assembly to Cylinder Body with

Thrust Tube retracted, and then tighten Socket Head Cap Screws.

B. Align non-motor end Head to Cylinder Body with Thrust Tube extended, and then tighten Socket Head Cap Screws.

RP, Solid Nut/Ball Nut:

- A. Install the RP Plate through Bearing Plate to Cylinder Body with Thrust Tube retracted, and then tightening two Socket Head Cap Screws into the top two holes in the RP Plate. Install Retaining Ring.
- B. Align non-motor end Head to Cylinder Body with Thrust Tube extended, and then tighten Socket Head Cap Screws.
- 10.Install Rod End into Thrust Tube:

Solid Nut/Ball Nut: Apply Loctite 271 to threads of the Rod End, install and tighten to the Thrust Tube.

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LMI MOTOR ASSEMBLY INSTRUCTIONS

Solid Nut/Ball Nut:

- 1. Attach Coupler Half onto leadscrew/nut then insert Spider into Coupler Half. Insert the other Coupler Half into the Spider.
- 2. Install Motor Spacer to Bearing Plate using Motor Spacer Fasteners.
- Install motor to Motor Spacer using Motor Mount Fasteners. Motor shaft should fit into the ID bore of the Coupler Half. Tighten the Coupler Half onto the motor shaft through access hole in Motor Spacer.
- 4. Place Cover onto Motor Spacer to cover the access hole. Secure Cover using Clamp and Socket Head Cap Screw.

RSA64st REVERSE PARALLEL MOTOR ASSEMBLY INSTRUCTIONS

- Align motor with slots RP Plate. Install four Motor Mount Fasteners through motor and RP Plate then into the four Square Nuts. The Square Nuts must seat into the pockets of the RP Plate. Tighten enough so motor is not drooping but able to move vertically.
- 2. Align the Collar Clamp with the Motor Pulley and install the Motor Pulley onto the motor shaft by tightening the Collar Clamp fastener. Align motor pulley with the actuator pulley.
- 3. Slide belt over motor pulley and actuator pulley.
- 4. Attach RP cover to RP plate: Install RP cover using two long fasteners through the RP cover, RP plate and bearing plate and into cylinder body. Install the remaining four fasteners into the RP plate.
- 5. Tension the belt following the procedures for the correct model number found listed in RP Belt Tensioning 3600-4212.

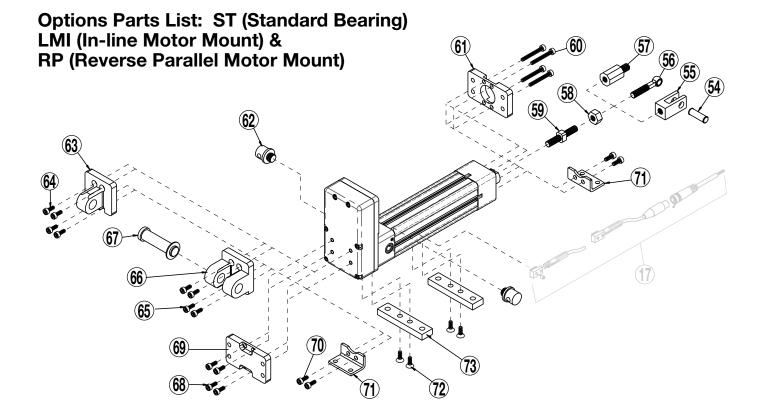
RSA64HT (Roller Nut) REVERSE PARALLEL MOTOR ASSEMBLY INSTRUCTIONS

See Tolomatic document RP Belt Tensioning 3600-4212 for RP motor assembly and belt tension procedure

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ROD	END CLEVIS ((CLV)		
	1150-9029	ROD END CLEVIS KIT	1	
	2164-9029	RD END CLVS KIT (METRIC)		1
54.	1150-1061	CLEVIS PIN (US STD. ONLY)	1	
55.	1150-1059	CLEVIS	1	
55.	2164-1059	CLEVIS		1
20	2124-1018	JAM NUT	1	
58.	2124-1024	JAM NUT		1
59.	1150-1057	THREADED ROD END	1	
J9.	2164-1057	THREADED ROD END		1

QTY.

ALIGNMENT COUPLER (ALC)					
57.	1150-1060	ALIGNMENT COUPLER	1		
	2164-1060	ALIGNMENT COUPLER		1	
58.	2124-1018	HEX JAM NUT (US STD. ONLY)	1		

SPH	ERICAL ROD E			
	1150-9028	SPHERICAL ROD EYE KIT	1	
	2164-9028	SPHRCL ROD KIT (METRIC)		1
56.	1150-1058	ROD END BEARING	1	
	2164-1058	ROD END BEARING		1
58.	2124-1018	JAM NUT	1	
30.	2124-1024	JAM NUT		1
59.	1150-1057	THREADED ROD END	1	
59.	2164-1057	THREADED ROD END		1

EXT	ERNALLY THR	EADED ROD END (MET)		
59	1150-1057	THREADED ROD END	1	Г
59.	2164-1057	THREADED ROD END		Ľ

FRO	FRONT FLANGE (FFG)							
	1164-9022	FRONT FLANGE KIT	1					
	2164-9022	FRONT FLNG KIT (METRIC)		1				
60.	1164-1007	SOCKET HD CAP SCREW	4					
00.	2164-1067	SOCKET HD CAP SCREW		4				
61.	1164-1052	FLANGE PLATE	1					
01.	2164-1052	FLANGE PLATE		1				

TRU	NNION MOUNT	「(TRR)		
60	1164-1051	TRUNNION PIVOT PIN	2	
02.	2164-1051	TRUNNION PIVOT PIN		2

EYE MOUNT (PCS)							
	1164-9024	EYE MOUNT KIT	1				
	2164-9024	EYE MOUNT KIT (METRIC)		1			
63.	1164-1054	EYE BRACKET	1				
03.	2164-1054	EYE BRACKET		1			
64.	1164-1008	SOCKET HD CAP SCREW	4				
04.	2164-1068	SOCKET HD CAP SCREW		4			

CLEVIS MOUNT (PCD)								
	1164-9025	CLEVIS MOUNT KIT	1					
	2164-9025	CLEVIS MNT KIT (METRIC)		1				
65.	1164-1008	SOCKET HD CAP SCREW	4					
00.	2164-1068	SOCKET HD CAP SCREW		4				

			_	_				
CLEVIS MOUNT (PCD) - CONTINUED								
66.	1164-1055	CLEVIS	1					
	2164-1055	CLEVIS		1				
67.	1150-1056	CLEVIS PIN	1					
	2164-1056	CLEVIS PIN		1				

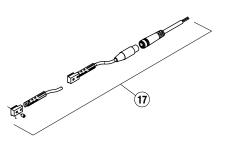
QTY.

BACK FLANGE (BFG)								
	1164-9022 REAR FLANGE KIT							
	2164-9022	REAR FLNG KIT (METRIC)		1				
68.	1164-1133	SOCKET HD CAP SCREW	4					
00.	2164-1083	SOCKET HD CAP SCREW		4				
69.	1164-1052	FLANGE PLATE	1					
	2164-1052	FLANGE PLATE		1				

FOOT MOUNT (FM2)							
	1164-9020	FOOT MOUNTING KIT	1				
	2164-9020	FOOT MNTG KIT (METRIC)		1			
70.	1164-1007	SOCKET HD CAP SCREW	4				
	2164-1067	SOCKET HD CAP SCREW		4			
71.	1164-1050	REAR FOOT MNT BRACKET	2				
	2164-1050	REAR FOOT MNT BRACKET		2			

MOUNTING PLATE (MP2)								
	1164-9023	MOUNTING PLATE KIT	1					
	2164-9023	MNTG PLATE KIT (METRIC)		1				
72.	1164-1009	FLAT HEAD CAP SCREW	4					
	3232-1010	FLAT HEAD CAP SCREW		4				
73.	1164-1053	TUBE SUPPORT BRACKET	2					
	2164-1053	TUBE SUPPORT BRACKET		2				

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To order switch kits use configuration code for switch preceded by SW and actuator code.

KIT SIZE SIMBURINE SIZE SIZE SWITCH CODE SWITCH CODE QUANTITY

The example is for 3 Solid State NPN, Normally Open Switches with Quick-disconnect couplers. Each switch is complete with Bracket, Set Screw, Switch and mating QD cable. Note that the bracket/switch size is common and may be used on any size RSA.

ITEM	ORDER CODE	LEAD	SENSOR TYPE	SWITCHING LOGIC	POWER LED	SIGNAL LED	OPERATING Voltage	**POWER Rating (Watts)	SWITCHING CURRENT (MA MAX.)	CURRENT CONSUMP- TION	VOLTAGE DROP	LEAKAGE CURRENT	TEMP. RANGE	SHOCK / VIBRATION
	RY	5M		SPST NORMALLY OPEN	_	RED	5 - 240 AC/DC	**10.0	100MA	_	3.0 V MAX.	_	14	
	RK	QD*	RED		Tolomatio	81009082								
	NY	5M	~	SPST NOR- MALLY	_	YELLOW	5 - 110							
	NK	QD*		CLOSED	Tolomatio	81009084	AC/DC							
	ΤY	5M		PNP (SOURC- ING)	GREEN	YELLOW								
17	TK QD*		NORMALLY OPEN	 Tolomatio	81009088							T0 158°F	50 G /	
17.	KY	5M		NPN (SINKING) NORMALLY OPEN	GREEN	RED	10 - 30 VDC	**3.0	100MA	20 MA @ 24V	2.0 V MAX.	0.05 MA MAX.	[-10 T0 70°C]	9 G
	KK	QD*	SOLID STATE		 Tolomatio	81009090								
	PY	5M	SOLID	PNP (SOURC- ING)	GREEN	YELLOW								
	PK	QD*		NORMALLY CLOSED	Tolomatio	81009092								
	HY	7 5M		NPN (SINKING)	GREEN	RED								
	HK	QD*		NORMALLY CLOSED	Tolomatio	81009094								
switch	switch bracket, set screw & mating QD cable is included													

*QD = Quick-disconnect

Enclosure classification IEC 529 IP67 (NEMA 6

CABLES: Robotic grade, oil resistant polyurethane jacket, PVC insulation

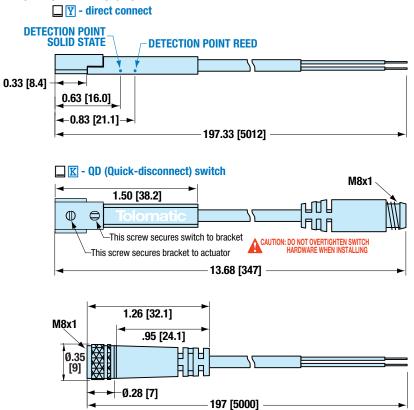
SWITCH INSTALLATION



Place switch bracket into one of the four slots that run the length of the extruded tube. Note that there is a cutout on the actuator head (RSA) or tube (GSA) to allow insertion of the bracket. Insert the switch with the word "Tolomatic" facing up and slide it under the bracket. Position the bracket with the switch to the exact location desired, then lock them securely into place by tightening both set screws on the bracket.

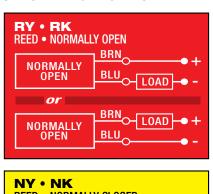
^{**}WARNING: Do not exceed power rating (Watt = Voltage x Amperage). Permanent damage to sensor will occur.

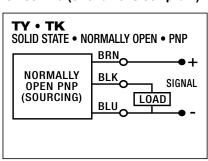
SWITCH DIMENSIONS

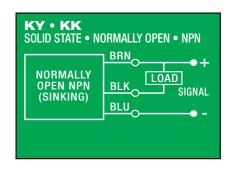


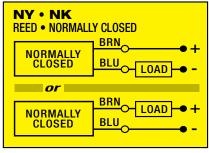
Dimensions in inches [brackets indicate dimensions in millimeters]

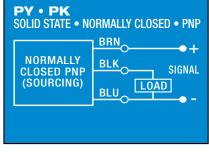
SWITCH WIRING DIAGRAMS AND LABEL COLOR CODING (CE and RoHS Compliant)

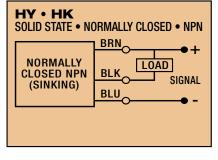


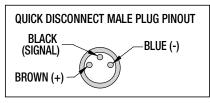


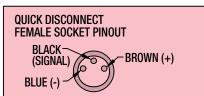












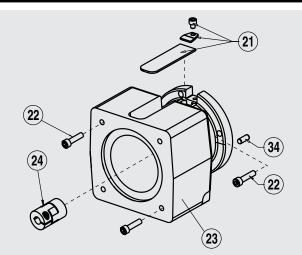
Switches:

- Include retained mounting hardware
- In slot, sit below extrusion profile
- · Same for all sizes

Parts Listing: Gearhead Mounting Kits

ITEM	DESCRIPTION	QTY.
22.	SOCKET HEAD CAP SCREW	8
23.	SPACER	1
24.	COUPLER	1
34	PIN	1

Email help@tolomatic.com for available replacement parts.



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3800 County Road 116, Hamel, MN 55340 USA http://www.Tolomatic.com • Email: Help@Tolomatic.com Phone: (763) 478-8000 • Fax: (763) 478-8080 • Toll Free: 1-800-328-2174