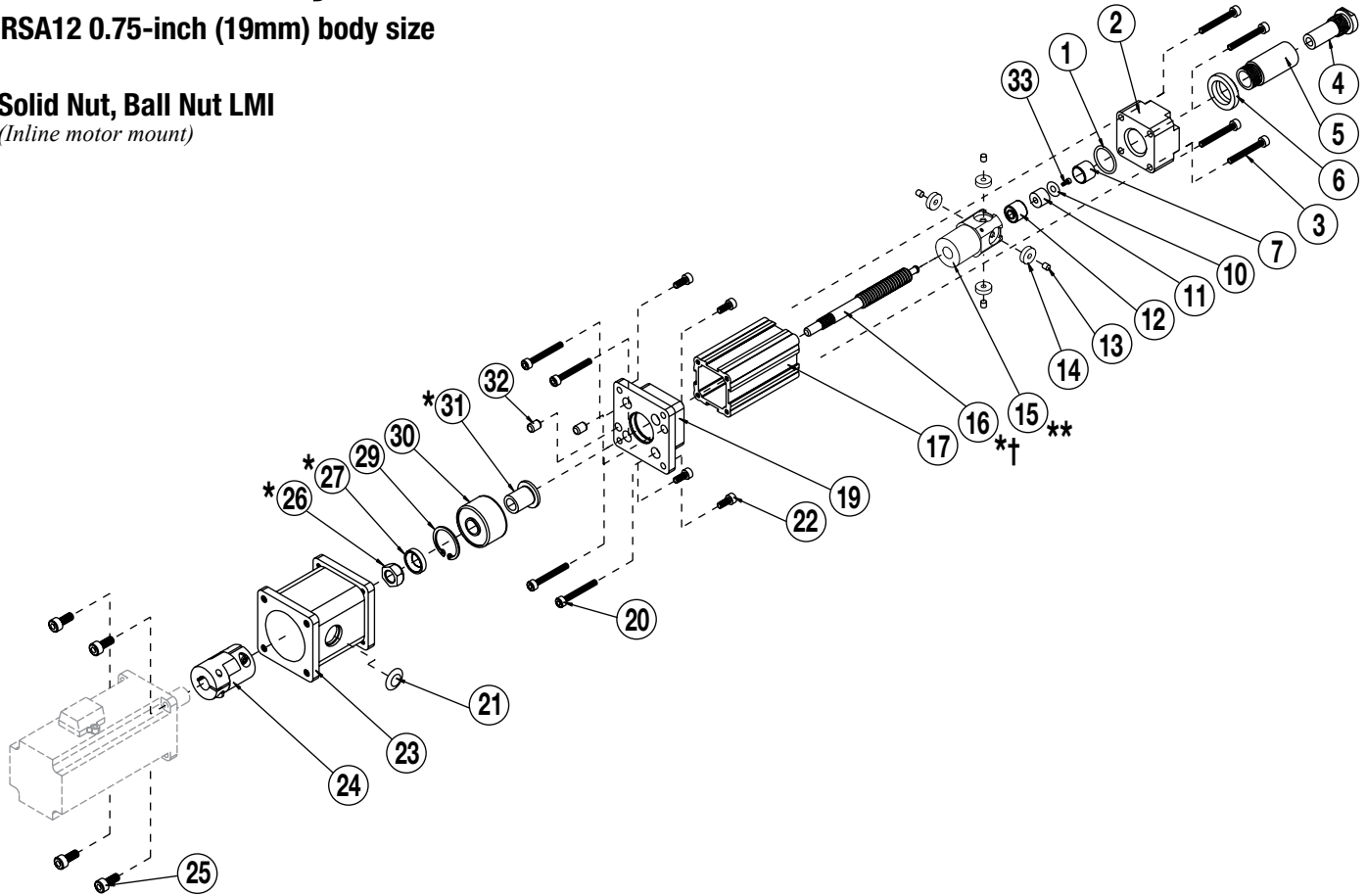


Electric Rod-Style Actuator

RSA12 0.75-inch (19mm) body size

Solid Nut, Ball Nut LMI

(Inline motor mount)



| ITEM | PARTS # | DESCRIPTION | SN01 | SN02 | SN05 | SN08 | BNL08 | BZ10 |
|-------|-----------|---------------------------|------|------|------|------|-------|------|
| 1. | 0740-1069 | O-RING | 1 | 1 | 1 | 1 | 1 | 1 |
| 2. | 1107-1002 | MACHINED HEAD (STD.) | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2107-1002 | MACHINED HEAD (METRIC) | 1 | 1 | 1 | 1 | 1 | 1 |
| 3. | 2212-1091 | SOCKET HD CAP SCREW | 4 | 4 | 4 | 4 | 4 | 4 |
| 4. | 1107-1006 | MACHINED ROD END (STD.) | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2107-1006 | MACHINED ROD END (METRIC) | 1 | 1 | 1 | 1 | 1 | 1 |
| 5. | 2107-1007 | THRUST ROD | 1 | 1 | 1 | 1 | 1 | 1 |
| 6. | 2107-1030 | WIPER SEAL | 1 | 1 | 1 | 1 | 1 | 1 |
| 7. | 2107-1023 | BEARING SLEEVE | 1 | 1 | 1 | 1 | 1 | 1 |
| 10. | 1107-1045 | WASHER | 1 | 1 | 1 | 1 | 1 | 1 |
| 11. | 2107-1029 | BUMPER | 1 | 1 | 1 | 1 | 1 | 1 |
| 12. | 2107-1083 | LEAD SCREW BEARING | 1 | 1 | 1 | 1 | 1 | 1 |
| 13. | 0905-1109 | MAGNETS | 4 | 4 | 4 | 4 | 4 | 4 |
| 14. | 2112-1120 | COUPLER/NUT BEARING | 4 | 4 | 4 | 4 | 4 | 4 |
| **15. | 2107-9000 | NUT ASSEMBLY SN01 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2107-9001 | NUT ASSEMBLY SN02 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2107-9002 | NUT ASSEMBLY SN05 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2107-9027 | NUT ASSEMBLY SN08 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 2107-9022 | NUT ASSEMBLY BZ10 | 1 | 1 | 1 | 1 | 1 | 1 |
| *†16. | RLRSA12 | LEAD SCREW | 1 | 1 | 1 | 1 | 1 | 1 |
| 17. | 2107-1031 | CYLINDER BODY | 1 | 1 | 1 | 1 | 1 | 1 |

| ITEM | PARTS # | DESCRIPTION | SN01 | SN02 | SN05 | SN08 | BNL08 | BZ10 |
|------|------------|-----------------------|------|------|------|------|-------|------|
| †19. | CONFIGURED | BEARING PLATE (STD.) | 1 | 1 | 1 | 1 | 1 | 1 |
| 20. | 2212-1111 | SOCKET HD CAP SCREW | 4 | 4 | 4 | 4 | 4 | 4 |
| 21. | 2107-1039 | CAP PLUG | 1 | 1 | 1 | 1 | 1 | 1 |
| †22. | CONFIGURED | SOCKET HD CAP SCREW | 4 | 4 | 4 | 4 | 4 | 4 |
| †23. | CONFIGURED | MTR SPACER | 1 | 1 | 1 | 1 | 1 | 1 |
| †24. | CONFIGURED | COUPLER KIT | 1 | 1 | 1 | 1 | 1 | 1 |
| †25. | CONFIGURED | SOCKET HD CAP SCREW | 4 | 4 | 4 | 4 | 4 | 4 |
| 26. | 1107-1013 | NUT | 1 | 1 | 1 | 1 | 1 | 1 |
| *27. | 1107-1014 | WASHER | 1 | 1 | 1 | 1 | 1 | 1 |
| 29. | 2107-1092 | RETAINING RING | 1 | 1 | 1 | 1 | 1 | 1 |
| 30. | 4510-1060 | BEARING, DBL ROW, ANG | 1 | 1 | 1 | 1 | 1 | 1 |
| *31. | 1107-1044 | LEAD SCREW SLEEVE | 1 | 1 | 1 | 1 | 1 | 1 |
| 32. | 6000-1752 | DOWEL PIN | 2 | 2 | 2 | 2 | 2 | 2 |
| 33. | 3604-1234 | SCREW | 1 | 1 | 1 | 1 | 1 | 1 |

*These parts are not compatible with actuators manufactured before January 2003.
 **Parts revised on 08-04-2005, when ordering a new nut assembly Kit #1112-9050 must also be ordered.

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

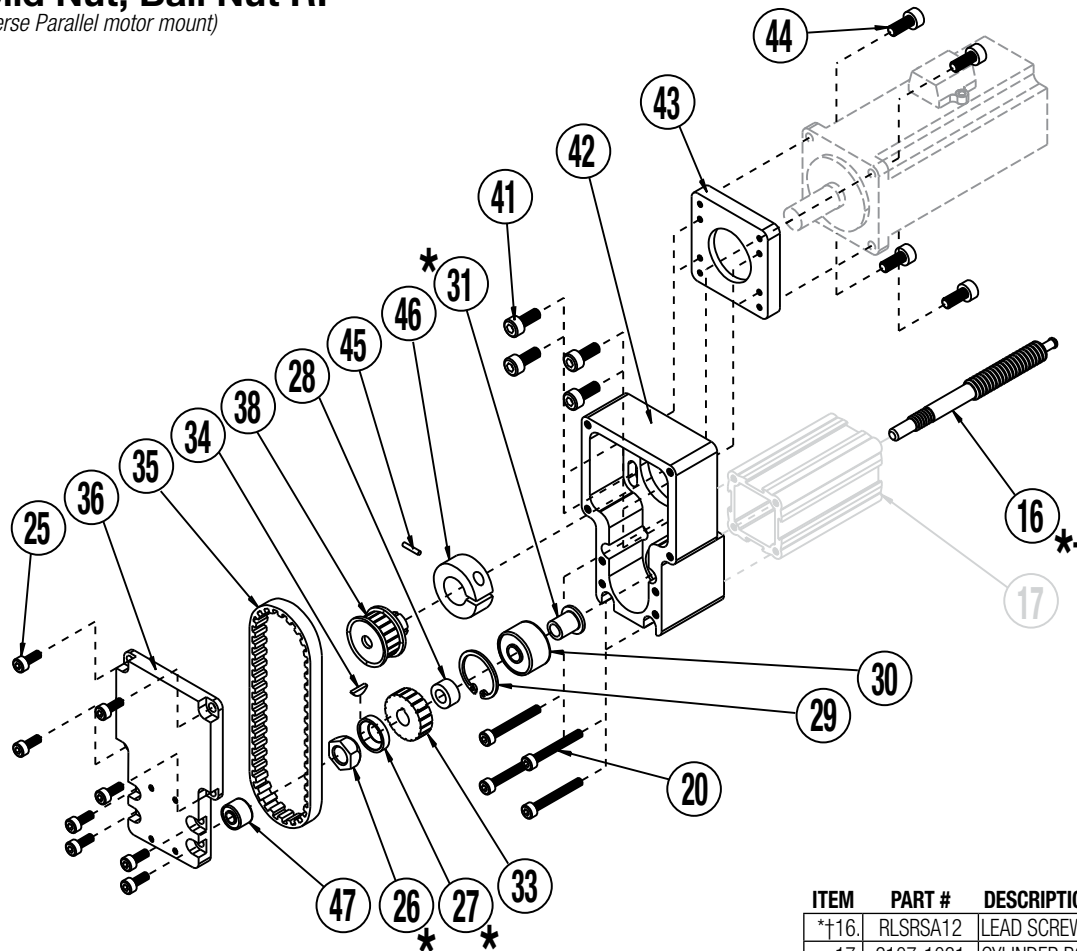
† Must indicate stroke length when ordering. Configured code is the preferred ordering method: **RLS RSA16** **SK** **YM**

EXAMPLE: RLS RSA16 SN01 SK21-25 YM

Replacement Lead Screw **Model & Size** **Nut Style & Size** **Stroke Length** **Motor Code**

Solid Nut, Ball Nut RP

(Reverse Parallel motor mount)



| ITEM | PART # | DESCRIPTION | QTY |
|-------|------------|-------------------------------------|-----|
| *†16. | RLSRS12 | LEAD SCREW | 1 |
| 17. | 2107-1031 | CYLINDER BODY | A/R |
| 20. | 2212-1111 | SOCKET HEAD CAP SCREW | 4 |
| 25. | 2212-1090 | SOCKET HEAD CAP SCREW | 8 |
| *26. | 1107-1013 | NUT | 1 |
| *27. | 1107-1014 | WASHER | 1 |
| ◇28. | CONFIGURED | LEAD SCREW SPACER | 1 |
| 29. | 2107-1092 | RETAINING RING | 1 |
| 30. | 4510-1060 | BEARING (DOUBLE ROW, ANGULAR) | 1 |
| *31. | 1107-1044 | LEAD SCREW SLEEVE | 1 |
| ◇33. | CONFIGURED | LOWER PULLEY | 1 |
| 34. | 2107-1011 | WOODRUFF KEY | 1 |
| ◇35. | CONFIGURED | BELT | 1 |
| ◇36. | CONFIGURED | PLATE COVER | 1 |
| ◇38. | CONFIGURED | UPPER PULLEY | 1 |
| 41. | 2212-1092 | SOCKET HEAD CAP SCREW | 4 |
| ◇42. | CONFIGURED | REVERSE-PARALLEL HOUSING (U.S. STD) | 1 |
| ◇43. | CONFIGURED | MOTOR PLATE | 1 |
| ◇44. | CONFIGURED | SOCKET HEAD CAP SCREW | 4 |
| ◇45. | CONFIGURED | SPRING PIN | 1 |
| ◇46. | CONFIGURED | LOCK COLLAR | 1 |
| 47. | 0905-1159 | RADIAL BALL BEARING | 1 |

*These parts are not compatible with actuators manufactured before January 2003.

**Parts revised on 08-04-2005, when ordering a new nut assembly Kit #1112-9050 must also be ordered.

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

† Must indicate stroke length when ordering. Configured code is the preferred ordering method: **RLSRS12** **SK** **YM**

EXAMPLE: **RLSRS12** **SN01** **SK21** **25** **YM**

Replacement Lead Screw _____ Model & Size _____ Nut Style & Size _____ Stroke Length _____ Motor Code _____

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.

Allen wrench set
Socket wrench & socket set
Retaining ring pliers

1. Remove motor and motor mounting hardware:

LMI: Remove components in the following order:

- 1) Access plug (21)
- 2) Loosen the coupler screw closest to the actuator.
- 3) Motor mount fasteners (25) and Motor/coupler assembly
- 4) Motor spacer (23)

RP: Remove components in the following order:

- 1) Motor mount fasteners (44) and motor
- 2) Belt (35)
- 3) Bottom plate cover (36)

- 2. Separate cylinder body from bearing plate:** Remove the 4 screws (20) that hold the bearing plate/RP Case (19,42) to the cylinder body (17). Slide the cylinder body away from bearing plate and off of the nut coupler/thrust rod assembly. **Caution:** Mark the location of the 4, nut coupler bearings (14), and the shims that are fitted in the pockets, relative to the cylinder body (17). These bearings are fitted with the appropriately sized shims at the factory and their orientation is critical when reassembling the actuator. The non-motor end head can also be removed from the cylinder body if need be.

- 3. Remove the thrust rod from the nut assembly:** The thrust rod (5) is threaded to the nut assy. (15) and held in place with Loctite. To remove the thrust rod, slide the O-ring (1) off the end of the thrust rod, then apply heat at the interface between the nut assy. and thrust rod, until Loctite becomes pliable enough to release the threads. Place a wrench on the flats of the machined rod end (4) and turn counterclockwise to unscrew it and the thrust rod from the nut assy.

- 4. Remove the leadscrew from the nut assembly:** Remove the Cap Screw (33), bumper (11) and bearing sleeve (12) from the leadscrew (16).

Ball nut style: *Caution is required if removal of the nut or leadscrew is required. Contact the factory for available parts and procedures.

Plastic/Bronze nut style: The leadscrew can be threaded out of the nut assy. at this point. The leadscrew nut and rod/nut coupler are pinned and secured with Loctite at the factory. If nut is worn, a new nut assembly must be ordered.

- 5. Remove the leadscrew from the bearing plate:** Secure the body of the leadscrew in a machinist vice or equivalent smooth jaw vice, then remove the locknut (26). Support the bearing on the inner race and press the leadscrew out of the bearing/sleeve. There is a mating taper interface between the sleeve (31) and the leadscrew.
- 6. Remove bearing from the bearing plate:** Remove the snap ring and press the bearing out of the bearing plate as it is secured in place w/ retaining compound.

ASSEMBLY INSTRUCTIONS

- 1. Sub assemble wiper seal and bearing sleeve into machined head:** Install wiper seal (6) into groove of machined head (2), (wiper lip on inside diameter of seal faces outward), then press bearing sleeve (7) from opposite end until it is flush to surface of head.
- 2. Press leadscrew bushing (31) into main bearing (30).** Then apply a coating of Loctite 641 retaining compound to OD of the bearing and ID of the bearing plate/RP housing and install bearing into the bearing plate/RP housing, install the snap ring (29).

3. Install bearing plate/RP case assembly onto leadscrew:

LMI: Apply Loctite 242 to the threads of the leadscrew, locate washer (27) and locknut (26) over leadscrew. Torque locknut to 65 in-lbs, hold leadscrew in machinist vice as necessary.

RP: Apply Loctite 242 to the threads of the leadscrew, locate spacer (28), key (34) and pulley (33), washer (27), and locknut (26) over leadscrew. Torque to 65 in-lbs. Hold leadscrew in machinist vice as necessary.

- 4. Install nut assembly (15) onto leadscrew:** Thread the nut assembly onto the leadscrew. Threaded end of the nut is away from motor end of the leadscrew.

- 5. Assemble leadscrew guide (12) and bumper (11) onto non-motor end of leadscrew.** Fix in place w/ washer and cap screw.

- 6. Grease leadscrew and assemble thrust rod to nut coupler:**

Grease the leadscrew and ID of the thrust rod.

• **Ballnut Units:**

Grease with Mobilith SHC220 grease

• **Bronze Nut Units:**

Grease with Chevron SRI NLGI2 grease

• **Solid Nut Units:**

Grease with RheoGel TEK 664 grease

Apply Loctite 270 to OD threads on thrust rod and assemble thrust rod to nut coupler. For special lubrication option grease, email help@tolomatic.com

- 7. Grease ID of cylinder body with a coating of appropriate grease, and install lead-screw/nut assembly into the tube.** *Make sure to orient bearing plates (14) with respect to tube the same as were removed.

8. Attach heads to the cylinder body and align prior to tightening:

A. Align motor end head to tube w/ thrust rod retracted, then tighten fasteners.

B. Align non-motor end head to tube w/ thrust rod extended, then tighten fasteners.

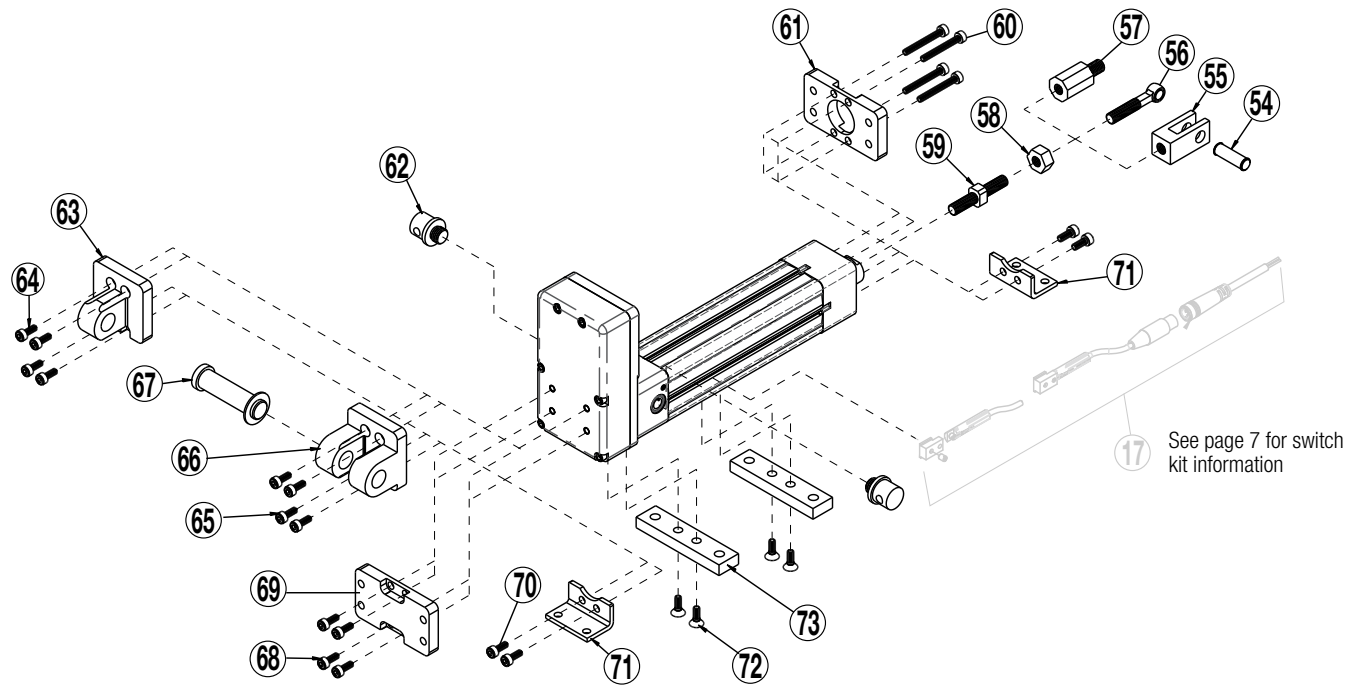
- 9. Install rod end into thrust rod:** Apply Loctite 271 to threads of the rod end, install and tighten to the thrust rod.

- 10. Install motor/gearhead.**

REVERSE PARALLEL MOTOR ASSEMBLY INSTRUCTIONS

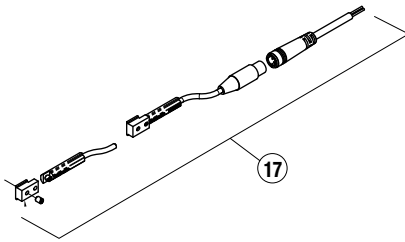
1. Attach motor plate to motor with 4 screws (44). Use lock collar (46) to attach upper pulley (38) to motor shaft.
2. Attach motor plate to housing with 4 screws (41). Do not tighten screws at this point.
3. Slide belt over motor and leadscrew pulleys.
4. Attach bottom plate cover (36) to reverse parallel housing with 4 screws (25).
5. Tension the belt following the procedures for the correct model number found listed in [RP Belt Tensioning 3600-4212](#).
6. Attach upper plate cover (47) to reverse parallel housing with 4 screws (25).

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Chevron SRI NLGI2® is a registered trademark of Chevron Worldwide, www.chevronlubricants.com
RheoGel TEK 664® is a registered trademark of Engineered Custom Lubricants, www.eclube.com
All brand and product names are trademarks or registered trademarks of their respective owners.



| | | | QTY | |
|--|-----------|--------------------------------|--------------|-------------|
| | | | US CONV (SK) | METRIC (SM) |
| ITEM | PART NO. | DESCRIPTION | | |
| CLEVIS MOUNT (PCD) | | | | |
| | 1107-9021 | CLEVIS MOUNT KIT (INCH) | 1 | |
| | 2107-9021 | CLEVIS MOUNT KIT (METRIC) | | 1 |
| 55. | 1107-1075 | CLEVIS | 1 | |
| | 2107-1075 | CLEVIS | | 1 |
| 58. | 1076-1032 | JAM NUT | 1 | |
| | 2124-1019 | JAM NUT | | 1 |
| 59. | 1107-1073 | THREADED ROD END | 1 | |
| | 2107-1073 | THREADED ROD END | | 1 |
| ALIGNMENT COUPLER (ALC) NOTE: ALIGNMENT COUPLER IS INTERNALLY THREADED, IF EXTERNAL THREAD IS DESIRED ORDER MET ALSO | | | | |
| | 1124-9022 | BACK FLANGE KIT (INCH) | 1 | |
| | 2124-9032 | BACK FLANGE KIT (METRIC) | | 1 |
| 57 | 1107-1076 | ALIGNMENT COUPLER | 1 | N/A |
| SPHERICAL ROD EYE (SRE) | | | | |
| | 1107-9020 | SPHERICAL ROD EYE KIT (INCH) | 1 | |
| | 2107-9020 | SPHERICAL ROD EYE KIT (METRIC) | | 1 |
| 56. | 1107-1074 | ROD END BEARING | 1 | |
| | 2107-1074 | ROD END BEARING | | 1 |
| 58. | 1076-1032 | JAM NUT | 1 | |
| | 2124-1019 | JAM NUT | | 1 |
| 59. | 1107-1073 | THREADED ROD END | 1 | |
| | 2107-1073 | THREADED ROD END | | 1 |
| THREADED ROD END (MET) | | | | |
| 59. | 1107-1073 | THREADED ROD END | 1 | |
| | 2107-1073 | THREADED ROD END | | 1 |
| FRONT FLANGE (FFG) | | | | |
| | 1107-9013 | FRONT FLANGE KIT (INCH) | 1 | |
| | 2107-9020 | FRONT FLANGE KIT (METRIC) | | 1 |
| 60. | 1150-1005 | SOCKET HEAD CAP SCREW | 4 | |
| | 2212-1090 | SOCKET HEAD CAP SCREW | | 4 |
| 61. | 2107-1067 | FLANGE PLATE | 1 | 1 |
| TRUNNION MOUNT (TRN) | | | | |
| 62. | 1107-1066 | TRUNNION PIVOT PIN | 2 | |
| | 2107-1066 | TRUNNION PIVOT PIN | | 2 |
| EYE MOUNT (PCS) | | | | |

| ITEM | PART NO. | DESCRIPTION | QTY | |
|-----------------------------|-----------|---|--------------|-------------|
| | | | US CONV (SK) | METRIC (SM) |
| | 1107-9016 | EYE MOUNT KIT (INCH) | 1 | |
| | 2107-9016 | EYE MOUNT KIT (METRIC) | | 1 |
| 63. | 1107-1070 | EYE BRACKET | 1 | |
| | 2107-1070 | EYE BRACKET | | 1 |
| 64. | 1150-1005 | SOCKET HEAD CAP SCREW | 4 | |
| | 0602-3012 | SOCKET HEAD CAP SCREW | | 4 |
| CLEVIS MOUNT (PCD) | | | | |
| | 1107-9017 | CLEVIS MOUNT KIT (INCH) | 1 | |
| | 2107-9017 | CLEVIS MOUNT KIT (METRIC) | | 1 |
| 65. | 1150-1005 | SOCKET HEAD CAP SCREW | 4 | |
| | 2212-1090 | SOCKET HEAD CAP SCREW | | 4 |
| 66. | 1107-1071 | CLEVIS | 1 | |
| | 2107-1071 | CLEVIS | | 1 |
| 67. | 1107-1072 | CLEVIS PIN | 1 | |
| | 2107-1072 | CLEVIS PIN | | 1 |
| REAR FLANGE (BFG) | | | | |
| | 1107-9014 | REAR FLANGE MOUNT KIT (INCH) | 1 | |
| | 2107-9014 | REAR FLANGE MOUNT KIT (METRIC) | | 1 |
| 68. | 1150-1005 | SOCKET HEAD CAP SCREW | 4 | |
| | 2212-1090 | SOCKET HEAD CAP SCREW | | 4 |
| 69. | 2107-1068 | FLANGE PATE | 1 | 1 |
| FOOT MOUNT (FM2) | | | | |
| | 1107-9010 | FOOT MOUNT KIT (INCH) | 1 | |
| | 2107-9009 | FOOT MOUNT KIT (METRIC) | | 1 |
| 70. | 1150-1005 | SOCKET HEAD CAP SCREW | 2 | |
| | 2212-1090 | SOCKET HEAD CAP SCREW | | 2 |
| 71. | 2107-1064 | FOOT MOUNT BRACKET | 2 | 2 |
| MOUNTING PLATE (MP2) | | | | |
| | 1107-9015 | MOUNTING PLATE KIT (INCH) -17 FRAME | 1 | |
| | 2107-9015 | MOUNTING PLATE KIT (METRIC)-17 FRAME | | 1 |
| 72. | 3410-1464 | SOCKET HEAD CAP SCREW-17 FRAME | 4 | |
| | 2212-1093 | SOCKET HEAD CAP SCREW-17 FRAME | | 4 |
| 73. | 2107-1069 | TUBE SUPPORT BRACKET-17 FRAME | 2 | 2 |
| | 1112-9014 | MOUNTING PLATE KIT (INCH) -23 FRAME, YMH | 1 | |
| | 2112-9014 | MOUNTING PLATE KIT (METRIC)-23 FRAME, YMH | | 1 |
| 72. | 2309-1025 | SOCKET HEAD CAP SCREW-23 FRAME, YMH | 4 | |
| | 0602-1027 | SOCKET HEAD CAP SCREW-23 FRAME, YMH | | 4 |
| 73. | 2112-1054 | TUBE SUPPORT BRACKET-23 FRAME, YMH | 2 | 2 |




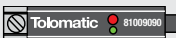




To order switch kits use configuration code for switch preceded by SW and actuator code.

EXAMPLE: **SWRSA12KK3**

| | | | | |
|-----|----------|------|-------------|----------|
| KIT | ACTUATOR | SIZE | 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 CONSUMPTION | VOLTAGE DROP | LEAKAGE CURRENT | TEMP. RANGE | SHOCK / VIBRATION |
|---|------------|------|-------------|---|-----------|------------|-------------------|------------------------|-----------------------------|---------------------|--------------|-----------------|------------------------------|-------------------|
| 17. | RY | 5M | REED | SPST NORMALLY OPEN | — | RED | 5 - 240 AC/DC | **10.0 | 100MA | — | 3.0 V MAX. | — | 14 TO 158°F [-10 TO 70°C] | 50 G / 9 G |
| | RK | QD* | |  | | | | | | | | | | |
| | NY | 5M | | SPST NORMALLY CLOSED | — | YELLOW | 5 - 110 AC/DC | | | | | | | |
| | NK | QD* | |  | | | | | | | | | | |
| | TY | 5M | SOLID STATE | PNP (SOURCING) NORMALLY OPEN | GREEN | YELLOW | 10 - 30 VDC | **3.0 | 100MA | 20 MA @ 24V | 2.0 V MAX. | 0.05 MA MAX. | | |
| | TK | QD* | |  | | | | | | | | | | |
| | KY | 5M | | NPN (SINKING) NORMALLY OPEN | GREEN | RED | | | | | | | | |
| | KK | QD* | |  | | | | | | | | | | |
| | PY | 5M | | PNP (SOURCING) NORMALLY CLOSED | GREEN | YELLOW | | | | | | | | |
| | PK | QD* | |  | | | | | | | | | | |
| | HY | 5M | | NPN (SINKING) NORMALLY CLOSED | GREEN | RED | | | | | | | | |
| | HK | QD* | |  | | | | | | | | | | |
| 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

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

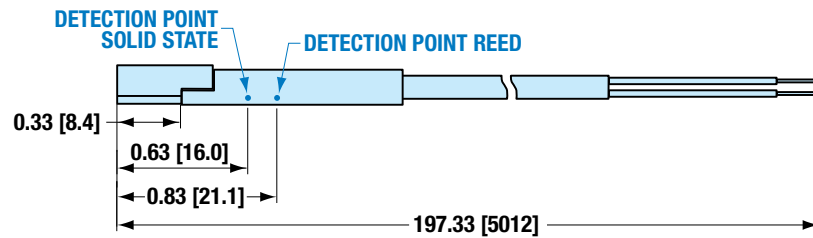
Switch installation



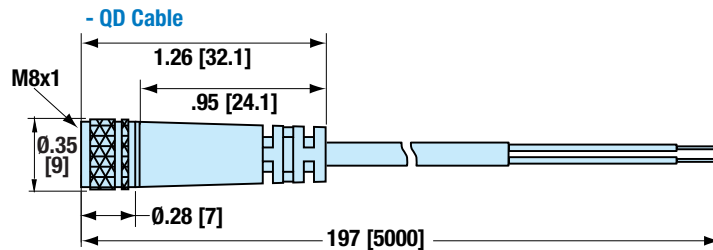
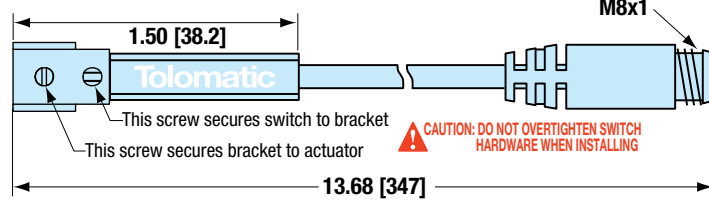
Place switch bracket into one of the four slots that run the length of the extruded tube. Note that there is a cutout on the actuator head (RSA) or tube (GSA) to allow insertion of the bracket. Insert the switch with the word "Tolomatic" facing up and slide it under the bracket. Position the bracket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

SWITCH DIMENSIONS

 - direct connect

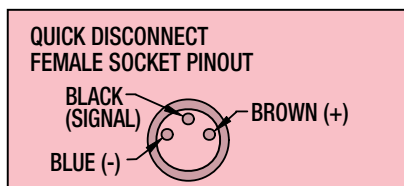
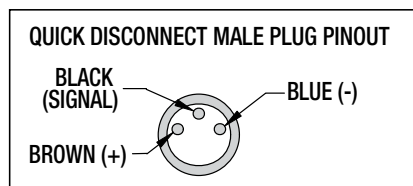
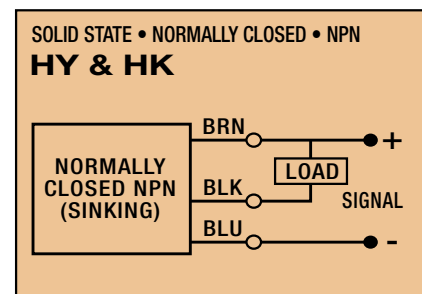
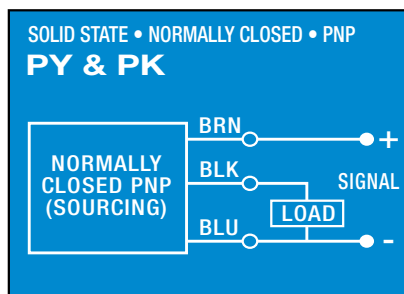
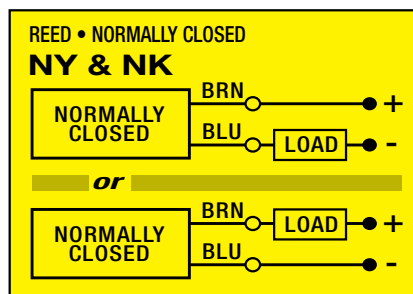
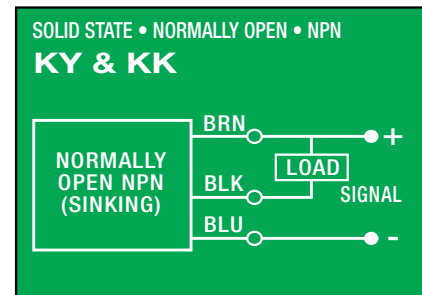
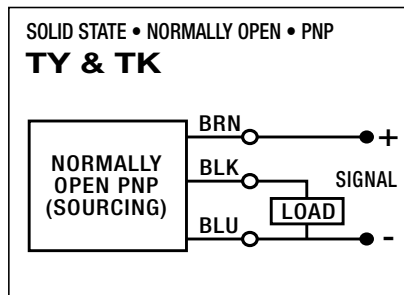
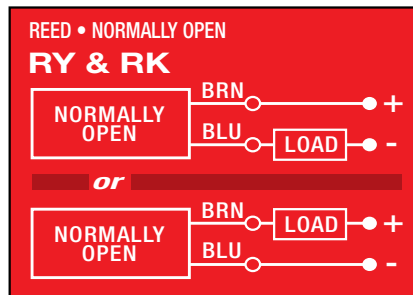


 - QD (Quick-disconnect) switch



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



NOTE: For actuators manufactured before 5-1-2010

| CONFIG. CODE ORDERING | |
|---------------------------------------|--|
| Mounting Hardware & FE conn. included | |
| CODE | DESCRIPTION |
| BT | SWITCH ONLY, REED, FORM C, 5M |
| BM | SWITCH ONLY, REED, FORM C, MALE CONN. |
| RT | SWITCH ONLY, REED, FORM A, 5M |
| RM | SWITCH ONLY, REED, FORM A, MALE CONN. |
| CT | SWITCH ONLY, TRIAC, 5M |
| CM | SWITCH ONLY, TRIAC, MALE CONN. |
| KT | SWITCH ONLY, HALL-EFFECT, SINKING, 5M |
| KM | SWITCH ONLY, HALL-EFFECT, SINKING, MALE CONN. |
| TT | SWITCH ONLY, HALL-EFFECT, SOURCING, 5M |
| TM | SWITCH ONLY, HALL-EFFECT, SOURCING, MALE CONN. |

NOTE: When ordered by Config. Code Female connector & all mounting hardware is included

REED SWITCHES

NOTE: Form A Reed Switches should not be used in TTL logic circuits. A voltage drop caused by the L.E.D. indicator will result. For applications where TTL circuits are used, please contact Tolomatic.

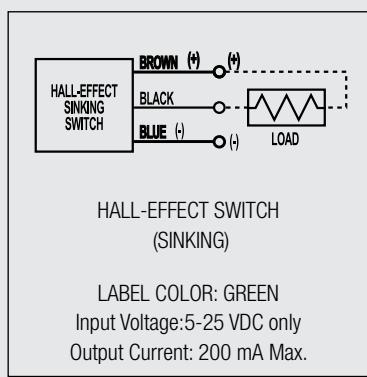
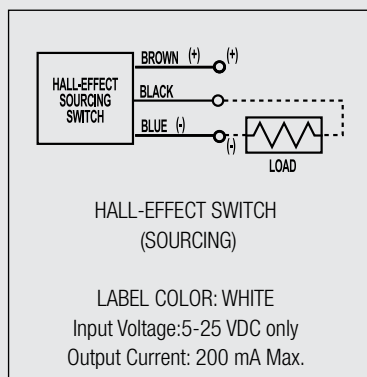
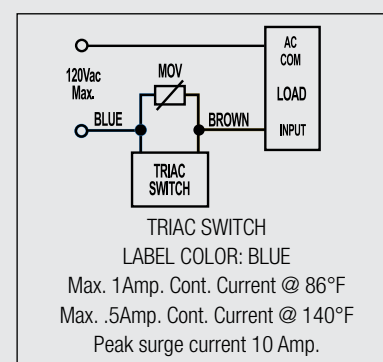
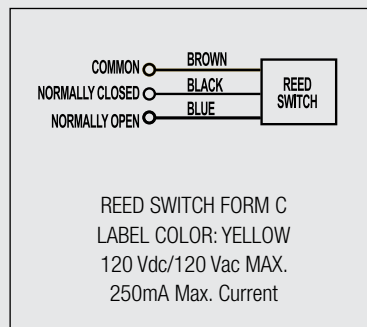
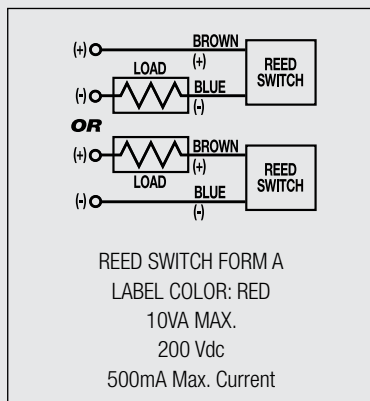
WARNING: An ohmmeter is recommended for testing Reed Switches. NEVER use an incandescent light bulb as a high current rush may damage the switch. Reed and TRIAC switches are only recommended for signalling position, not d

irectly powering solenoids. For shifting a solenoid, a relay or resistor is recommended between it and the switch. Switch ratings must not be exceeded at any time

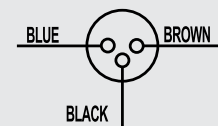
TO ORDER RETROFIT KITS: SW (then the model number and base size, and code for type of switch needed: **EXAMPLE: SWRSA24RT**

All Switch Kits come with 1 switch and mounting hardware.

Universal Switch Wiring Diagrams and Label Color Coding



QUICK-DISCONNECT (Applies to all switch types)



An Important Note Regarding Field Retrofit of Quick-Disconnect Couplers:
If replacing a Quick-Disconnect switch manufactured before 7-1-97 it will also be necessary to replace or rewire the female-end coupler with the in-line splice

Female Connector 5M

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

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