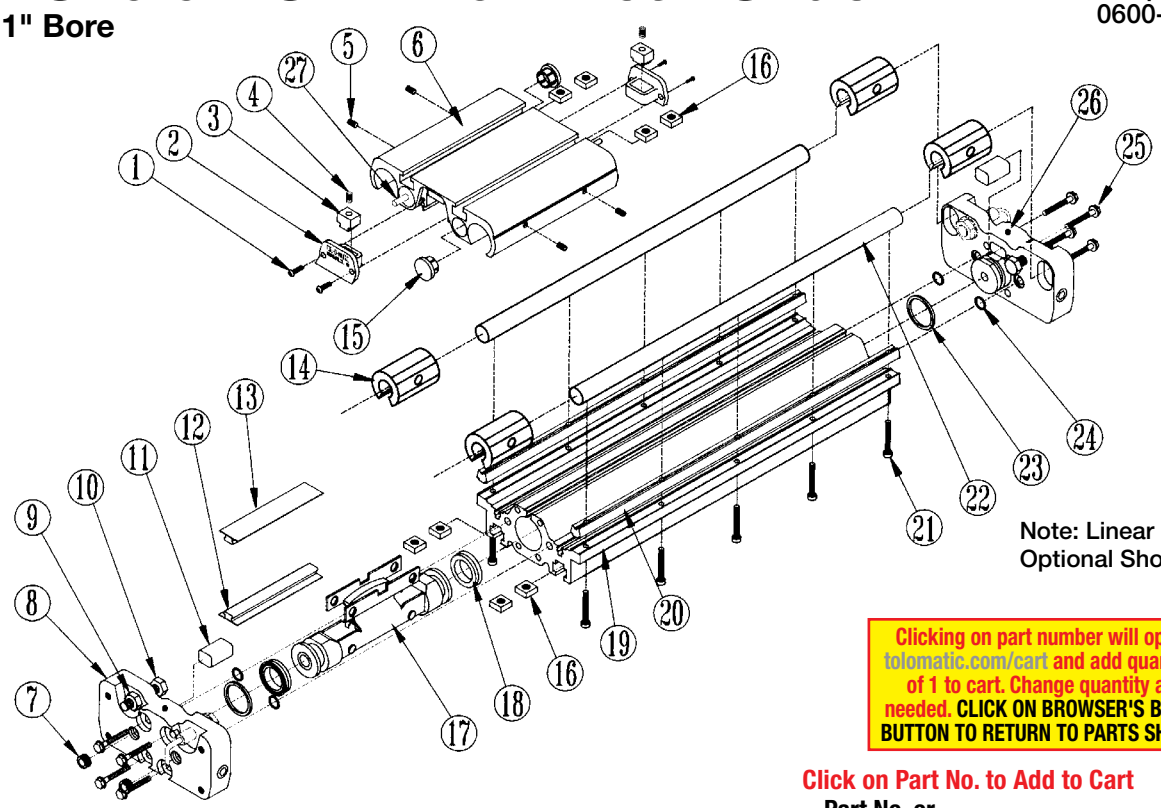
Tolomatic™
EXCELLENCE IN MOTION

Parts Sheet

LS10 & LSMM10 Linear Slide

1" Bore

0600-4002_11
Replaced Parts Sheets
0600-0005 & 0600-0006



Note: Linear Slide is shown with Optional Shock Absorbers

Clicking on part number will open tolomatic.com/cart and add quantity of 1 to cart. Change quantity as needed. CLICK ON BROWSER'S BACK BUTTON TO RETURN TO PARTS SHEET.

Click on Part No. to Add to Cart

Item	Part No. or Config. Code	Description	LS10	LSMM10
1[1]	0910-1172	Screw	4	4
2[1]	0610-1012	End Cap	2	2
3[1]	4515-1012	Band Insert	2	2
4[1]	4520-1012	Spring, Compression	2	2
5	0610-1046	Set Screw	4	4
6	0610-9000	Carriage Sub-Assembly	1	1
7[2]	1014-1065	Plug, Pipe	2	
	5910-1006	Pipe Plug		2
8	0610-9002	Head Sub-Assembly	2	
	5610-9002	Head Sub-Assembly		2
9[2]	0610-1026	Hex Nut	2	2
10[2]	0610-1016	Hex Head Screw	2	2
11	0610-1017	Band Wedge	2	2
12[1,3]	NSBLS10 SK	Sealing Band (specify stroke)	1	1
	NSBLS10 SM	Sealing Band (specify stroke)	**	**
13[1,3]	NDBLS10 SK	Dust Band (specify stroke)	1	1
	NDBLS10 SM	Dust Band (specify stroke)	**	**

Click on Part No. to Add to Cart

Item	Part No. or Config. Code	Description	LS10	LSMM10
14	0610-1005	Bearing, Linear	4	4
15	0610-1021	Hole Plug, Chrome	4	4
16	0610-1042	Square Nut	8	
	5610-1042	Square Nut		8
17	0910-9013	Piston Bracket Sub-Assembly	1	1
18[1]	0910-1206	U-Cup	2	2
19[4,5]	RTBLS10 SK	Tube (specify stroke)	A/R	A/R
	RTBLS10 SM	Tube (specify stroke)	A/R	A/R
20[6,7]	CONFIGURED	V-Block, Machined (spec. stroke)	2A/R	2A/R
	CONFIGURED	V-Block, Machined (spec. stroke)	2A/R	2A/R
21	0610-1103	Cap Screw (Qty. depends on stroke)	A/R	A/R
22[8,9]	NGSLS10 SK	Shaft, Machined (specify stroke)	2A/R	2A/R
	NGSLS10 SM	Shaft, Machined (specify stroke)	2A/R	2A/R
23[1]	0910-1160	O-Ring, Buna-N	2	2
24[1]	0720-1003	O-Ring, Buna-N	4	4
25	0610-1011	Screw, Self-Tapping	8	8
26[2]	0915-1044	Set Screw	2	2
27[10]	0610-1100	Light Duty Shock Absorber	AR	AR
	0610-1101	Heavy Duty Shock Absorber	AR	AR

[1]Included in Repair Kit RKLS10SK_ _ . _ _

[2]Available only as Head Assembly 0610-9002 (5610-9002 metric).

[3]Narrower bands for models manufactured before 5-1-98 - Included in Repair Kit #0610-9033 SK_ _ . _ _

[4]Replacement tube for LS manufactured after October 13, 2007 order with code RTBLS10 SK and specify stroke SK __.__ in inches

[5]Replacement tube for LS manufactured before October 13, 2007 order with #0610–1001 and specify stroke SK __.__ in inches

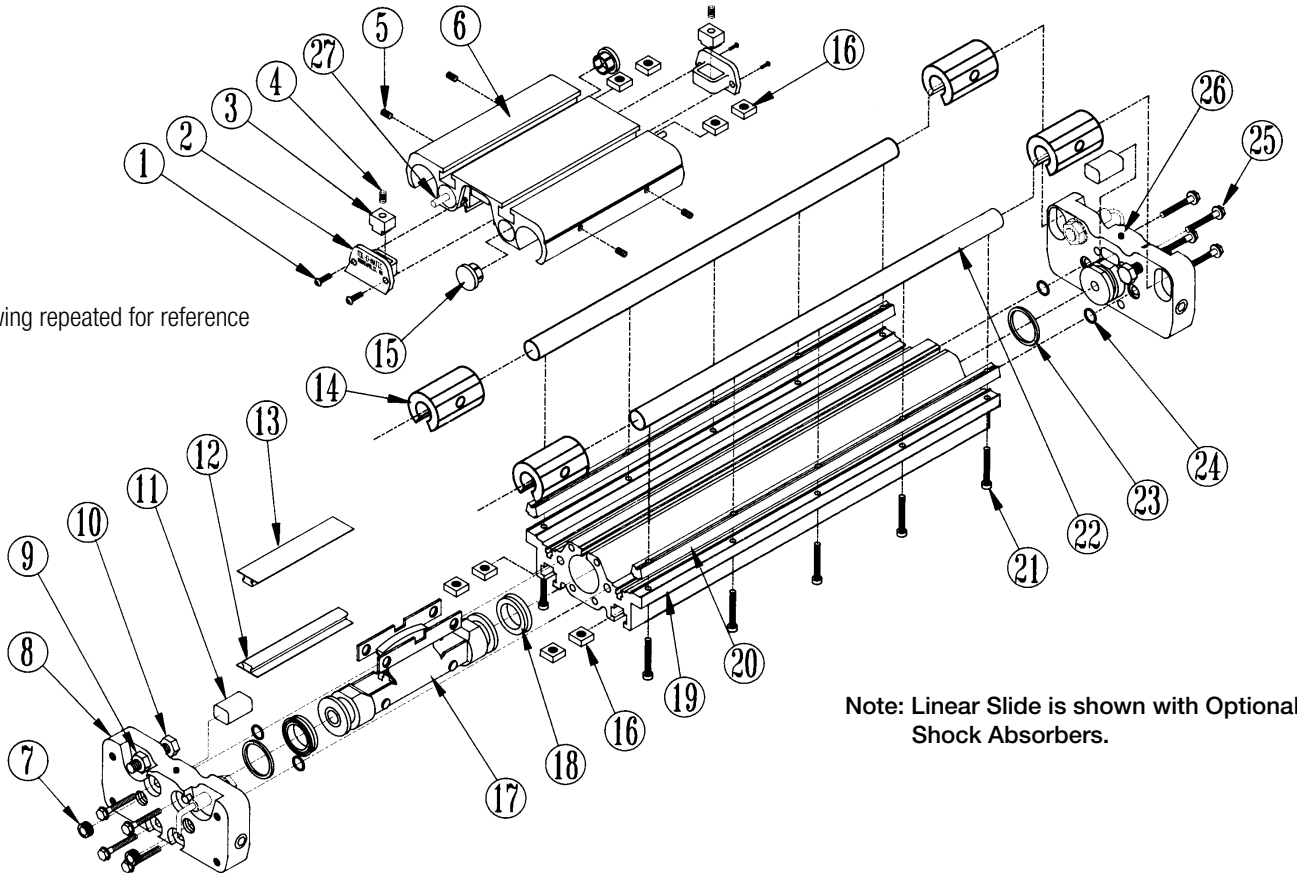
[6]Replacement V-Block for LS manufactured after October 13, 2007 order with code RVRLS10 and specify stroke SK __.__ in inches

[7]Replacement V-Block for LS manufactured before October 13, 2007 order with #0610–1037 and specify stroke SK __.__ in inches

[8]Replacement shaft for LS manufactured after October 13, 2007 order with code NGSLS10 SK and specify stroke SK __.__ in inches

[9]Replacement shaft for LS manufactured before October 13, 2007 order with #0610–1032 and specify stroke SK __.__ in inches

[10]Parts shown are shocks only. Field retrofit Kits are 0610-9022 Light Duty and 0610-9023 Heavy Duty.



DISASSEMBLY

1. Remove Slide Cylinder from machinery.
2. Remove Screws (#1), and End Caps (#2). *Use care as End Caps (#2) are spring loaded.
3. Loosen set screws in Head Assemblies (#8).
4. Remove eight Screws (#25), and two Head Assemblies (#8).
5. Slide Piston/Bracket (#17) and Carrier (#6) out end of Tube/Base (#19).
6. Remove Screws (#5), and Bearings (#14), from Carrier (#6).
7. Remove Top Dust Band (#13).
8. Remove Inside Sealing Band (#12) by passing a screw driver or similar tool through the slot in the Tube/Base (#19) to dislodge the band. *Take care in doing this step to make certain that NO SCRATCHES ARE MADE in the Tube/Base (#19) bore or slot.

ASSEMBLY

1. Thoroughly clean all components, particularly the bore, slot, and bands. Carefully lubricate the tube and all rubber parts with MAGNALUBE®"G".
2. Insert new sealing band (#12) into the Tube/Base (#19) bore (with the rubber portion facing up into the slot), centering the band along its entire length. ***CAUTION:** The metal edges of the band are very sharp. Exercise caution to avoid injury to yourself or the the Band and Tube/Base (#19) (When installing both the Inner and Top Bands).
3. Install the Piston/Bracket (#17), with new U-Cups (#18) in place in the Tube/Base by passing the Inner Sealing Band through the Piston/Bracket.
4. Push the Piston/Bracket (#17) along the cylinder length to position the Inner Band (#12) properly into the slot.
5. Cut Sealing Band (#12) to leave .5" overhang at either end of the Tube/Base. Remove rubber portion of overhanging band with a razor blade.
6. Install the Top Dust Band (#13) with the rubber sealing portion facing down into the slot and centering the band along its entire length. The band should lay over the center of the Piston/Bracket.
7. Cut Dust Band (#13) to leave .5" overhang at either end of the Tube/Base. Remove rubber portion of overhanging band with a razor blade.
8. Place two Bearings (#14) on each shaft (#22) with lowest set screw holes facing outward.
9. Install Carrier (#6) over Piston/Bracket (#17). Care must by taken to assure key in the bottom of the Carrier (#6) fits into the Piston/Bracket (#17) slot and one Bearing (#14) per Shaft (#22) is on either side of the Carrier (#6).
10. Push Bearings (#14) in Carrier (#6) as far as Carrier (#6) bores will permit.
11. Install Set Screws (#5). Apply **Loctite** #242 to Set Screws (#5) and screw them into Carrier (#6) until they bottom out on Bearings (#14), then back them out one half turn.
12. Install Springs (#4) and Band Inserts (#3) into End Caps (#2) and install in Carrier (#6) ends. Push Springs (#4) down to

clear underside of Carrier (#6). Use Screws (#1) to hold End Cap (#2) in place.

13. Place Band Wedges (#11) between Bands (#12,#13) at both ends of cylinder.
14. Install new O-Rings (#23,#24) on Head Assemblies (#8) and install Head Assemblies to cylinder. If using Square Nuts (#16) be sure they are installed in Tube/Base before Heads are installed.
15. Install Screws (#25) and tighten Head Assemblies in place.
16. Push Carrier (#6) to one end and tighten Set Screw in Head Assembly on that end. Push Carrier (#6) to the other end of the Slide Cylinder to take out any slack in Bands (#12,#13) and tighten Set Screw (#26) in Head Assemblies (#8).
17. Run Carrier (#6) back and forth along the full stroke to make certain the Slide is properly assembled.
18. Remount the completed Slide Cylinder.

SHAFT AND BEARING REPLACEMENT INSTRUCTIONS

Note: Shaft alignment is critical to assure proper function of the slide cylinder.

1. Remove Slide Cylinder from machinery.
2. Loosen two Set Screws (#26) in Head Assembly (#8) on one end of Cylinder.
3. Remove four screws (#25), and Head Assembly (#8) from same end of Cylinder.
4. Remove Screws (#21) from one shaft (#22).
5. Slide Shaft (#22) out of Carrier (#6).
6. Remove and replace Set Screws (#5) and Bearing (#14) from open side of Carrier (#6). Use **Loctite** #242 on Set Screws (#5) and screw them into Carrier (#6) until they bottom out on bearings (#14), then back them out one half turn.
7. Slide new Shaft (#22) through Bearings (#14). Replace Screws (#21) loosely, use **Loctite** #242 on Screws (#21).
8. Hold Top Dust Band (#13) at open end of Cylinder and slide Carrier (#6) to opposing end.
9. Tighten Screws (#21) below Carrier (#6) to 40 inch-pounds minimum.
10. To align Shaft (#22) properly, slide carrier over next Screw (#21) and tighten to 15 inch-pounds minimum. Repeat this until all Screws (#21) are tight.
11. Repeat steps 5 through 11 for second Shaft (#22).
12. Place Band Wedge (#11) between Bands (#12,#13) at open end of Cylinder.
13. Be sure O-rings are on Head Assembly (#8) and install Head Assembly (#8) to Cylinder. If using Square Nuts (#16) be sure they are installed in Tube/Base (#17) before Head is installed.
14. Install four Screws (#25) and tighten to 70-80 inch-pounds.
15. Position Carrier (#6) to the end of Cylinder with non-removed Head Assembly (#8). Push Carrier (#6) back to other end to remove any slack from Bands (#12,#13) and tighten Set Screws in Head Assembly (#8).
16. Run Carrier back and forth along the full stroke to make certain the Slide is properly assembled before applying air.
17. Remount the completed Slide Cylinder.

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Magnalube®-G is a registered trademark of the Carleton-Stuart Corporation, www.magnalube-g.com
Viton® is a registered trademark of the E.I. Du Pont de Newmours Co., www.dupont.com.

OPTIONAL ACCESSORIES

Shock Absorber (Shock absorbers are sold individually.)

DESCRIPTION		PART NO.
1"/25mm	Light Duty	0610-9022
1"/25mm	Heavy Duty	0610-9023

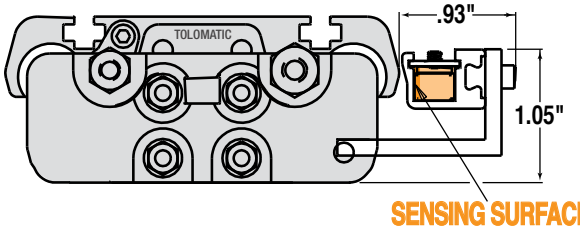
Inductive DC Proximity Sensors (also sold individually.)

DESCRIPTION		PART NO.
DC 10-24	NPN NO Sink	0610-1023
DC 10-24	PNP NO Source	0610-1024

NOTE: NO=Normally Open

Click on Part No. to Add to Cart

SWITCH AND HARDWARE LISTING



CONFIG. CODE ORDERING	
DESCRIPTION	**CODE**
Switch Kit, Reed, Form C, 5m	BT
Switch Kit, Reed, Form C, Male Conn.	BM
Switch Kit, Reed, Form A, 5m	RT
Switch Kit, Reed, Form A, Male Conn.	RM
Switch Kit, Triac, 5m	CT
Switch Kit, Triac, Male Conn.	CM
Switch Kit, Hall-effect, Sinking, 5m	KT
Switch Kit, Hall-effect, Sinking, Male Conn.	KM
Switch Kit, Hall-effect, Sourcing, 5m	TT
Switch Kit, Hall-effect, Sourcing, Male Conn.	TM

0610-9100	Rail and rail hardware (Specify stroke)

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 the factory.

WARNING: An ohmmeter is recommended for testing Reed Switches. NEVER use an incandescent light bulb as a high current rush may damage the switch.

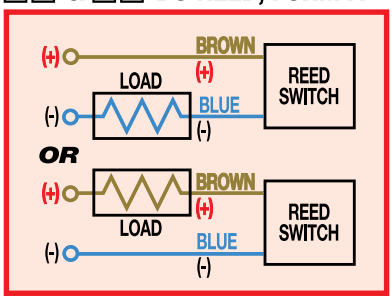
Reed and TRIAC switches are only recommended for signalling position, not directly powering soleniods. For shifting a solenoid, a relay or resistor is recommended between it and the Reed Switch. Switch ratings must not be exceeded at any time.

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

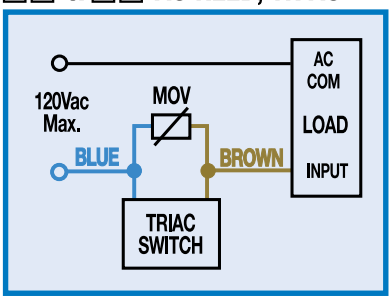
NOTE: For Hall Effect Switch Magnet, be sure the S pole of the magnet (indicated with black dot) is facing toward the switch (down).

WIRING DIAGRAMS

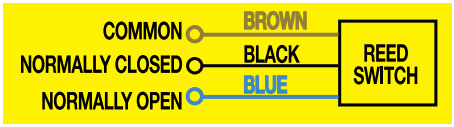
RT & RM DC REED, FORM A



CT & CM AC REED, TRIAC

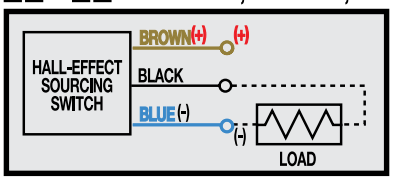


BT & BM DC REED, FORM C

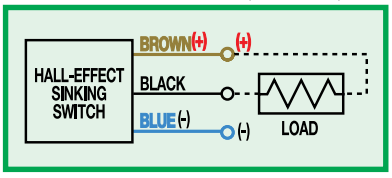


Some actuators may require switch mounting on a specific side of the assembly. Call Tolomatic for details.

TT & TM HALL-EFFECT, SOURCING, PNP



KT & KM HALL-EFFECT, SINKING, NPN

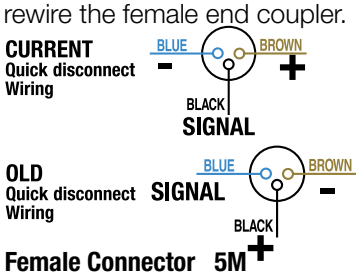


INSTALLATION INFORMATION



THE NOTCHED FACE OF THE SWITCH INDICATES THE SENSING SURFACE AND MUST FACE TOWARD THE MAGNET.

REPLACEMENT OF QD SWITCHES MANUFACTURED BEFORE JULY 1, 1997:
It will be necessary to replace or rewire the female end coupler.



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

EXAMPLE: SWLS10BT
Where **SW** is the switch kit, **LS** is Linear Slide, **10** is the 1" size, and **BT** is a Form C Reed Switch with 5-meter lead.

All Switch Kits come with 1 switch and mounting hardware.

SWITCH TYPE CODE

BT	(Form C Reed Switch with 5-meter lead)
BM	(Form C Reed Switch with 5-meter lead and QD)
RT	(Form A Reed Switch with 5-meter lead)
RM	(Form A Reed Switch with 5-meter lead and QD)
CT	(TRIAC Switch with 5-meter lead)
CM	(TRIAC Switch with 5-meter lead and QD)
KT	(Hall-effect Switch (Sinking) 5-meter lead)
KM	(Hall-effect Switch (Sinking) 5-meter lead and QD)
TT	(Hall-effect Switch (Sourcing) 5-meter lead)
TM	(Hall-effect Switch (Sourcing) 5-meter lead and QD)

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