

## Service Manual

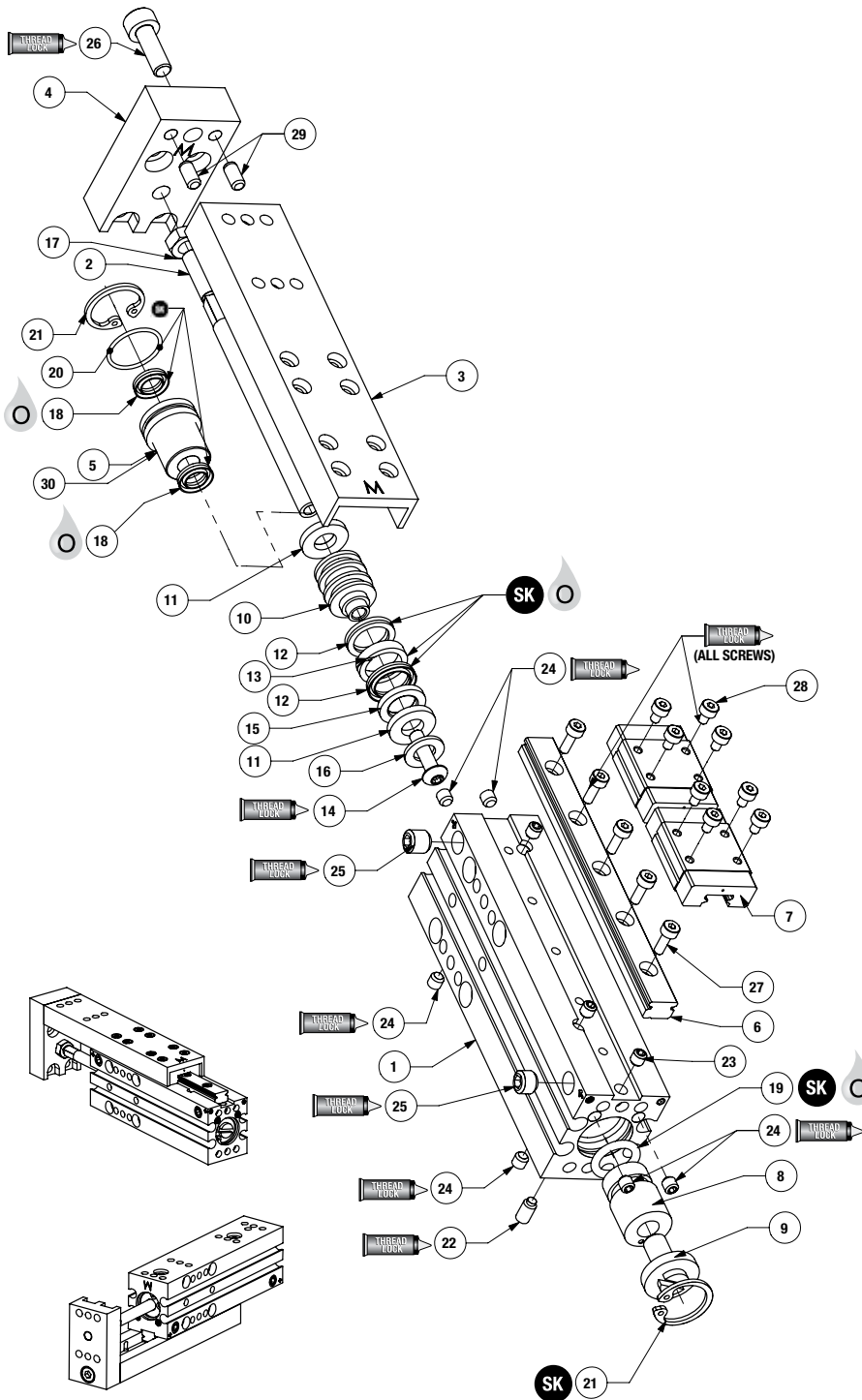
### **ROBOHAND** | MPS Series



**WARNING:** This is a controlled document. It is your responsibility to deliver this information to the end user of the Destaco Robohand product. Failure to deliver this could result in your liability for injury to the user or damage to the machine. For copies of this manual, call your Customer Service Representative at 1.248.836.6700

# MPS SERIES

## Linear Slides | Maintenance and Assembly Procedure



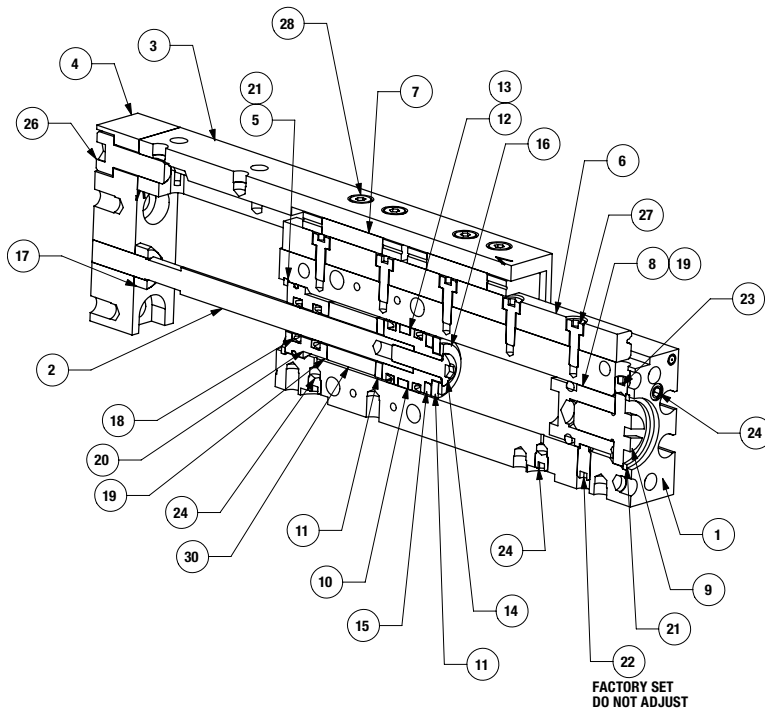
Item	Qty	Name
01	1	Body
02	1	Piston Shaft
03	1	Tool Plate Top
04	1	Tool Plate Face
05	1	Shaft End Cap
06	1	Guide Rail Bearing
07	1 or 2	Bearing Block
08	1	Stop
09	1	Adjustment Stud
10	1	Piston
11	2	Shock Pad
12	2	Piston U-Cup
13	1	Teflon Ring
14	1	Piston Screw
15	1	Magnet
16	1	Piston Washer
17	1	Jam Nut
18	1	End Cap U-Cup
19	2	Stop O-Ring
20	1	Shaft End Cap O-Ring
21	2	Cap Retaining Ring
22	1	Stop Set Screw
23	1	Adjustment Stud Set Screw
24	8	Plug Set Screw
25	2	Port Plug Set Screw
26	1	Tool Plate Screw
27	3-9	Rail Screw
28	4 or 8	Bearing Screw
29	2	Face Plate Dowel
30	1	Piston Spacer

**NOTE:** Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

### Assembly Procedure

- 1) Install set screw in appropriate ports in body using thread sealer
- 2) Attach Rail to Body
- 3) Attach Tool Plate Face to Tool Plate Top
- 4) Glue Magnet to Piston
- 5) Lube and install seals in Piston, Stop and End Cap
- 6) Install Stop Pad (retract) and Washer in Piston
- 7) Attach Nut to Shaft
- 8) Attach Piston to Shaft with End Cap, Spacer and Stop Pad (extend)
- 9) Install Stop from front of Body
- 10) Install Dog Point Set Screw
- 11) Install Adjustment Stud
- 12) Install Piston Assembly
- 13) Install Bearing Block
- 14) Install Tool Plate Assembly

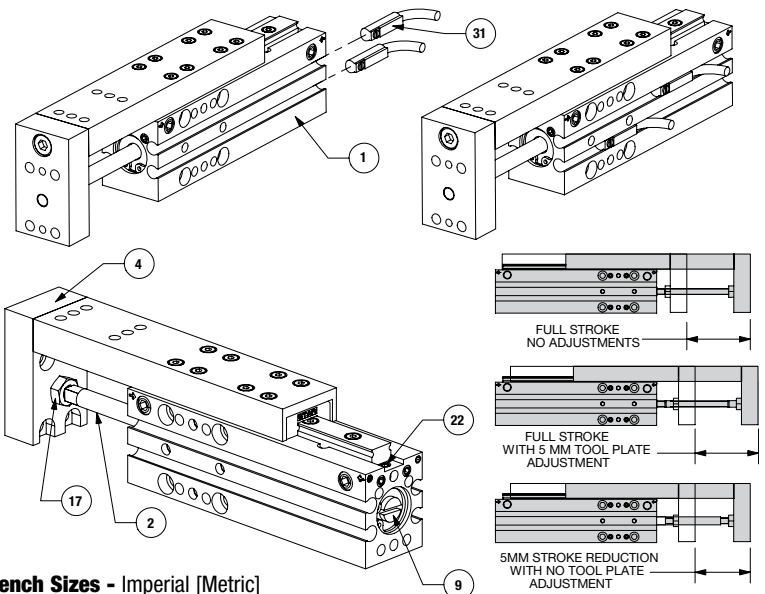
SK Seal Kit Items	Thread Locker	Krytox™ Lubricant	Lightweight Machine Oil	Teflon™ Based Grease	Super Bonder	Third Angle Projection
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### Accessory Installation & Adjustment Instructions



Item	Qty	Name
1	1	Body
31	1-4	Sensor

#### Assembly Procedure

- 1) Install sensor in profile slots as shown
- 2) Once adjusted for end stroke, lock in position with integrated set screws

#### Stroke and Position Adjustment Procedure

- 1) Tool Plate position can be adjusted up to 5mm by loosening Jam Nut (17) and unthreading Adjustment Stud (2) from Tool Plate Face (4). **Caution. Do not exceed 5mm. Shaft may completely unthread from Tool Plate Face. There is no limit and it is the responsibility of the installer/adjuster not to exceed 5mm from factory settings.** Retighten Jam Nut upon attaining desired location.
- 2) Retract stroke can be adjusted up to 5mm by loosening Adjustment Stud Set Screw (22) and then turning Adjustment Stud (9). Maximum and minimum limits are integral to this adjustment and cannot be exceeded. Retighten Set Screw upon attaining desired location. **Do not attempt to adjust the Dog Point Set Screw (22). The factory set location must be maintained.**

#### Wrench Sizes - Imperial [Metric]

Model	Nut	Flats on Shaft
-07	9/32 [7]	1/8 [3]
-09	13/32 [10]	7/32 [6]
-12	9/16 [13]	5/16 [8]

SK Seal Kit Items	THREAD LOCK Thread Locker	KRYTOX Krytox™ Lubricant	O Lightweight Machine Oil	G Teflon™ Based Grease	GLUE Super Bonder	Third Angle Projection
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