

Installation & Instruction Sheet

SureMotion® Linear Actuator Assemblies – Series LACP(2), LARSD2, LAVL(2)

**INSPECTION**

Unpack the SureMotion linear actuator and check to see that it is identical to what is specified in the purchase order. Inspect for shipping damage. Notify the returns department immediately if damage is discovered.

**NOTICE**

These installation instructions are intended to help in the use of this actuator assembly as well as to maximize the life of the actuator assembly. The required technical specifications can be found in the catalog or online. In addition, the catalog also contains important information regarding the limitations and ratings of the actuator assembly.

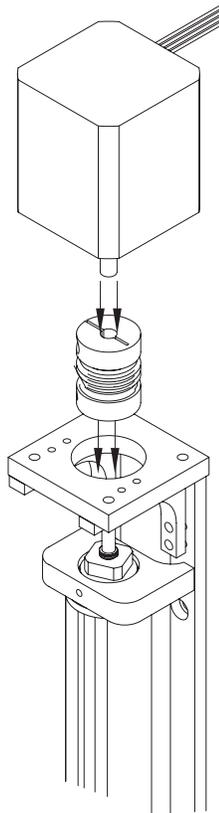
**ORIENTATION**

The actuator unit may be mounted in any orientation.

*THE ACTUATOR ASSEMBLY SHOULD BE HELD VERTICALLY SO THAT NO RADIAL LOAD IS APPLIED TO THE SHAFT DURING THE PROCESS OF MOUNTING THE MOTOR TO THE ACTUATOR.*

**MOUNTING THE MOTOR TO THE ACTUATOR**

- Ensure that all mounting surfaces are clean.
- Mount the motor and coupling to the linear actuator shaft while in the VERTICAL position. (It is important for the longevity of the components that NO RADIAL LOAD is applied to the shafts during the mounting process.)



Typical illustration; appearance may vary by series.

REPAIR PARTS KITS ARE AVAILABLE FROM AUTOMATIONDIRECT. INSTRUCTIONS FOR REPLACING THESE COMPONENT PARTS ARE AVAILABLE BY FREE DOWNLOAD FROM OUR WEB SITE: [WWW.AUTOMATIONDIRECT.COM](http://WWW.AUTOMATIONDIRECT.COM)

**TIGHTENING TORQUES**

Standard Steel Bolt/Screw Torque Specifications				
Bolt/Screw			Torque*	
Size	Pitch	Type	lb·in	lb·ft
6	32	Low Carbon Steel	8.7	–
8	32		17.8	
10	24		20.8	
1/4	20	SAE Grade 5 Med. Carbon Steel	–	10
5/16	18			19
3/8	16			33
7/16	14			54
1/2	13			78

\* It is recommended to use 50% of listed torque when using steel threads into aluminum material.

Metric Steel Bolt/Screw Torque Specifications			
Bolt/Screw			Torque*
Size	Pitch	Type	N·m
M3	0.5	Standard 5D Med. Carbon Steel	0.6
M4	0.7		1.5
M5	0.8		3.0
M6	1.0		5.2
M8	1.0		12.5

\* It is recommended to use 50% of listed torque when using steel threads into aluminum material.

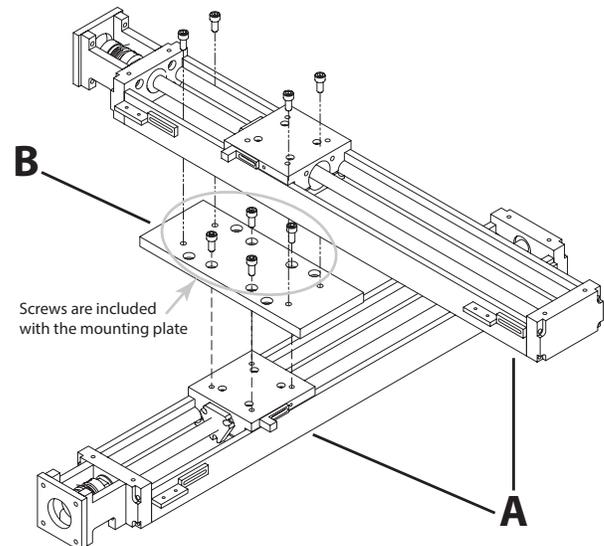
**USING MOUNTING PLATES TO MOUNT OTHER COMPONENTS TO PILLOW BLOCKS**

- Optional accessories such as mounting blocks are available from AutomationDirect, which facilitate the mounting of other components to pillow blocks of the actuator and slide assemblies.

The following illustrations show how various SureMotion actuator and slide assemblies can be combined for various axes of motion.

**X-Y Axis**

- A. (2) LAVL(2)-60Txxxx Actuator Assemblies
- B. (1) LAVLACC-004 Mounting Plate



Screws are included with the mounting plate

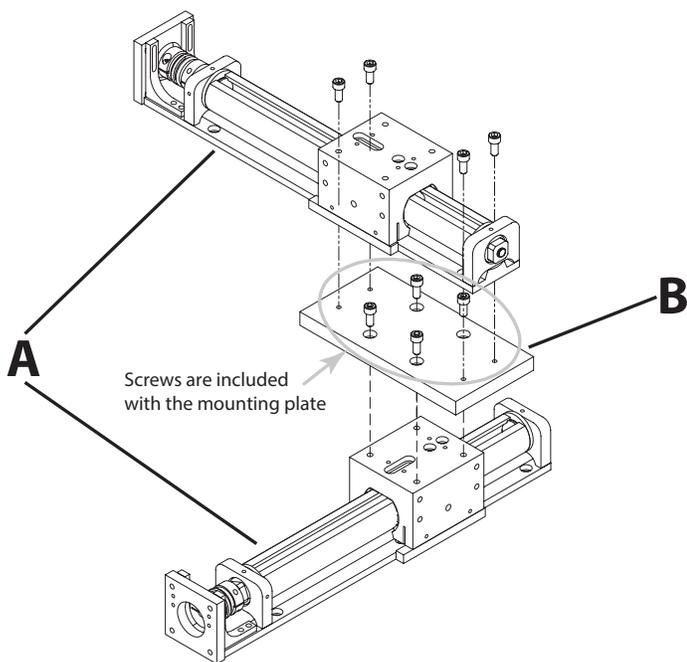
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*X-Y AXIS*

**A. (2) LACP(2)-16Txxxx Actuator Assemblies**

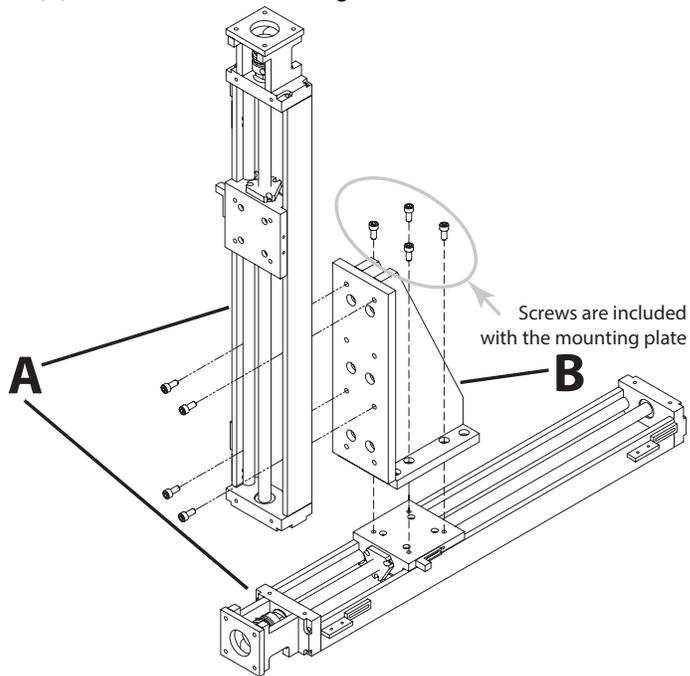
**B. (1) LACPACC-004 Mounting Plate**



*X-Z AXIS*

**A. (2) LAVL(2)-60Txxxx Actuator Assemblies**

**B. (1) LAVLACC-005 Mounting Plate**



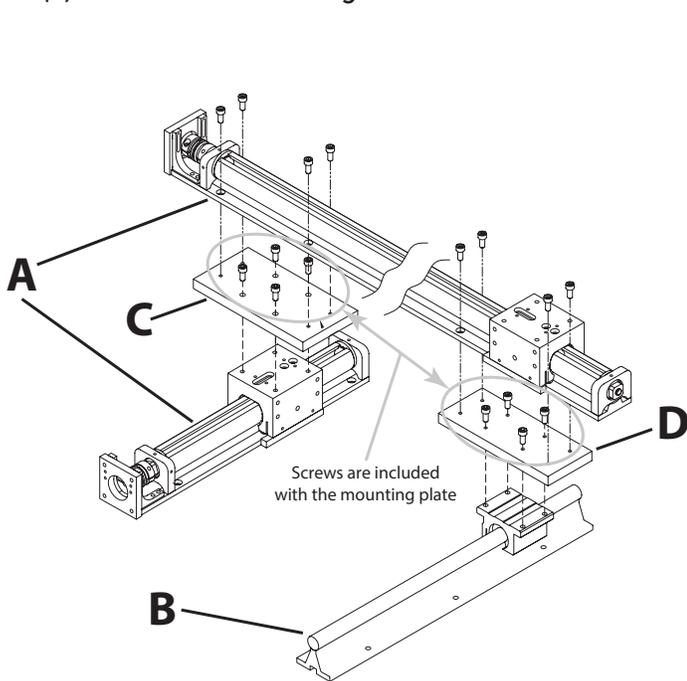
*X-Y AXIS*

**A. (2) LACP(2)-16Txxx Actuator Assemblies**

**B. (1) LARSB1-xxx Slide Assembly**

**C. (1) LACPACC-004 Mounting Plate**

**D. (1) LACPACC-005 Mounting Plate**



*X-Y-Z AXIS*

**A. (3) LAVL(2)-60Txxxx Actuator Assemblies**

**B. (1) LAVLACC-004 Mounting Plate**

**C. (1) LAVLACC-005 Mounting Plate**

