Linear Motion Kit

Kit Contents

x2

x4

12 Inch
x 2

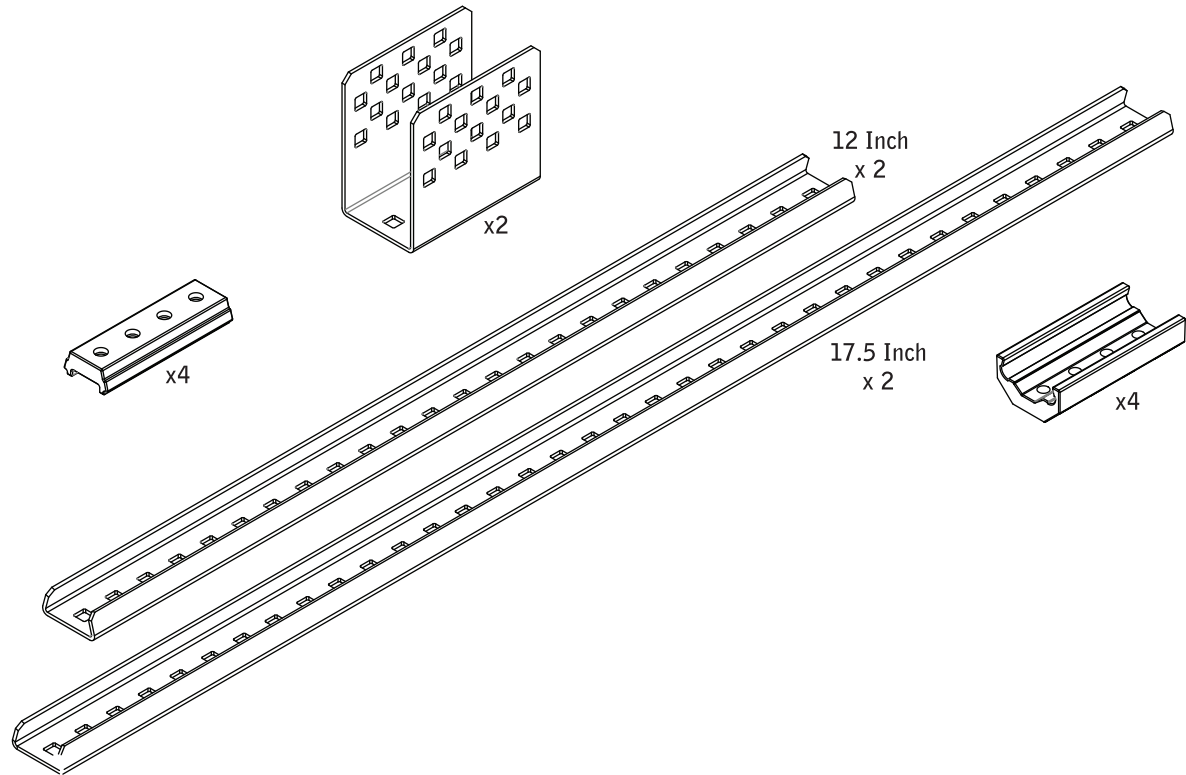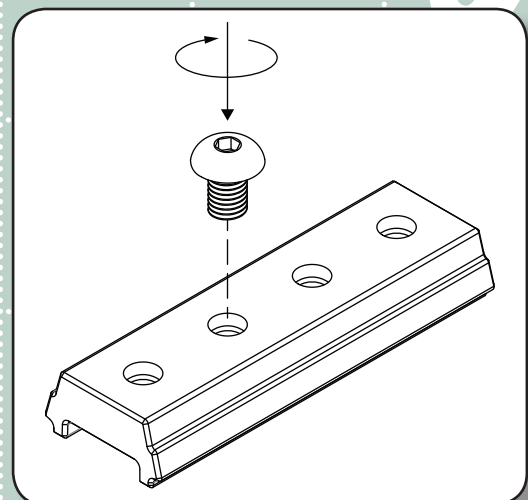17.5 Inch
x 2

x4

The VEX linear motion kit utilizes special designed mounting holes that allow a standard VEX 8-32 screw to make its own threads. Screws that use these holes require no nut and will not vibrate loose.

The first time screws are installed, it may be necessary to push downward while turning the screw as shown in the diagram to the right.

For More Information, and additional Parts & Pieces refer to:
www.VEXrobotics.com

Linear Motion Kit, continued

Using a rack and pinion is one of the best ways to actuate a linear slide with VEX. There are two main configurations of the linear slide kit with the rack and pinion set.

The first configuration is shown to the right. An inner linear slide block is bolted to the bottom of a rack and pinion bracket. A slide with rack gears then slides on the inner slide block.

Some parts shown not included
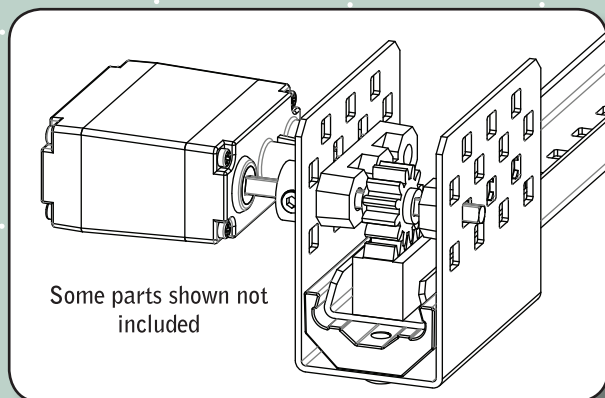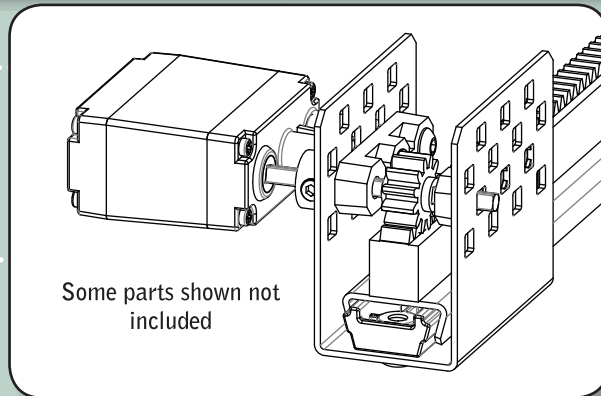
The second configuration is shown to the left. An outer linear slide block is bolted to the bottom of a rack and pinion bracket. A slide with rack gears then slides in the outer slide block.

With either configuration, the bracket can be mounted stationary so the metal slide moves relative to the motor or the metal slide can be mounted stationary so the motor moves relative to the metal slide.

Some parts shown not included

With the correct configuration of the VEX linear slide kit, it is possible to achieve an overall length that is nearly double the length of a single slide, as seen below. The greater length can be achieved by mounting an outer slide plastic block to the outside of two metal slides, then inserting the two slides into the opposite outer slide plastic blocks, as seen below. Mount an inner plastic slide block onto your robot and insert it into a metal slide as seen to the right.