VEX Claw Kit

Reach out and touch someone. With the VEX Claw Kit, your robot can easily grab and manipulate various objects. Whether picking up a 20 oz soda-can, or grasping objects as delicate as a feather, this claw is easily up to the task. This claw is compatible with all VEX Mechanical parts and is the same claw that is part of the VEXplorer Robotics Kit. (Motor not included.)

Also needed for installation, but not included:
(1x) VEX Motor or Servo
(2x) 6-32 x 1/4” long - Motor Mounting Screws

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

Limited 90-day Warranty
This product is warranted by VEX Robotics, Inc. against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from authorized VEX Robotics dealers. For complete warranty details and exclusions, check with your dealer.
The first step in assembling the claw is to install the driving motor or servo.

Attach the motor to the bottom claw bracket using (2x) 6-32 x 1/4” Screws (Motor and Screws are NOT included in this kit). The attachment can be seen below, for the different configuration options. Motor installation may be easier if the claw is partially disassembled.
The next step in the assembly process is to insert the drive shaft, and its associated components (2x Plastic Washers, 1x Shaft Collar, & 1x 12-tooth Gear). Install as shown. Ensure the Long Square Bar is fully inserted into the motor.

Use the Shaft Collar to keep the shaft from sliding out of the motor, by placing it firmly up against the underside of the bottom claw bracket.

Place the 12-tooth Gear in between the claw brackets, with a plastic washer on top of it, and another below it.

Make sure the 12-tooth Gear meshes with gear in the claw.
At this point, the claw should be fully assembled. Open and close the claw by hand, ensure that it moves relatively easily (there should only be minor resistance from the motor).

The last step in the process is to mount the claw to a robot. There are (4x) threaded standoffs built into the claw structure which can be used for this attachment. Provided in the kit are the (4x) 8-32 Mounting Screws which mate with these standoffs.

Even if you do not use these standoffs for mounting your claw, you should insert their bottom screws to help reinforce the claw.