

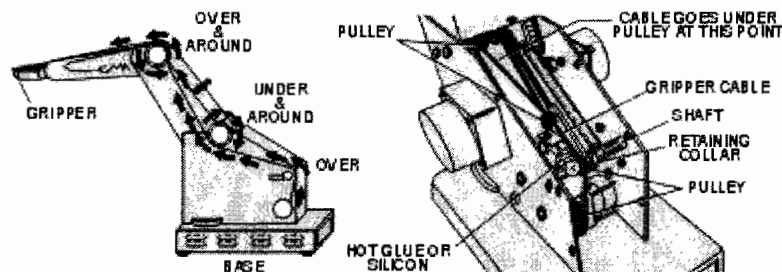
MARCRAFT

RS-2200 Robotics Repair

The biggest problem we face with the RS-2000 Robotics Kit is the gripper switch not being adjusted properly. Follow the instructions below for Cable installation.

Marcraft Robot Gripper Cable Installation Instructions

Please use this drawing to assist you in the installation. Click on the image for a larger version.



Before beginning. Please unscrew and detach all panels covering the arm workings.

1. The Drive Wheel

- Unscrew the pulley wheel from the drive motor axle (the motor closest to you) and pull off the pulley wheel.
- Take the cable and pass it through a crimp until it forms a small loop. This loop should be just big enough for the screw to go through but not the screw's head. Then crimp strongly to permanently fasten the loop into place.
- Place the loop around the screw and fasten the screw to the pulley wheel.
- Pass the free end of the cable through the small hole in the pulley wheel.
- Reattach the pulley wheel to the drive axle. Make sure that both screws are fastened tightly.

2. The Gripper Motor Cutoff Switch

- Pass the cable over the next pulley.
- Pass the cable through the metal loop attached to the motor switch.

3. The Shoulder Pulley

- Start with the robot facing away from you. You should be looking at the back and the gripper hand should be pointing away.
- Pass the cable under the pulley and then back toward yourself.
- Then loop it under the pulley once again. Do not let go of the cable.
- Turn the robot around so that you are facing the front of the robot.
- Pull the cable towards yourself and fasten the cable taught. Use tape to fasten the cable against the side of the robot arm.

4. The Elbow Pulley

- Grab the cable firmly and put it through the middle of the drive chain just

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to the left of the shoulder pulley.

- Pass the cable behind the elbow axle and place the cable into the elbow pulley groove.
- Pull the cable towards yourself and down and loop it back around the elbow pulley.
- Maintain a firm hold on the cable or fasten the cable again with tape.

5. The Gripper Pulley

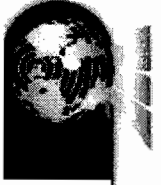
- Pull the cable through the gripper pulley from back to front.
- Pull the cable as tight as you can and fasten the cable to side of the arm with tape.
- Take a small piece of tape and fasten the gripper arms so that they remain closed.
- Pass the cable through a crimp to form a small loop. Then crimp strongly to permanently fasten the loop into place.
- Hold the cable firmly and unfasten it from the tape.
- Place the loop to the hooked end of the spring that is attached to the gripper arm.
- While holding on to the end of the cable remove the tape holding the gripper arm closed. This should take up most of the remaining slack in the cable.
- After completing these steps, turn the power on and hit the yellow reset button. This should turn on the gripper motor. The cable will be wound up until the cable becomes tight thus activating the gripper motor cutoff switch.

If you have any further questions, please e-mail us at techsupport@mic-inc.com.

Marcraft International Corp.

100 N. Morain Street, Suite 302, Kennewick, WA 99336
(509) 374-1951 FAX: (509) 374-9250
sales@mic-inc.com

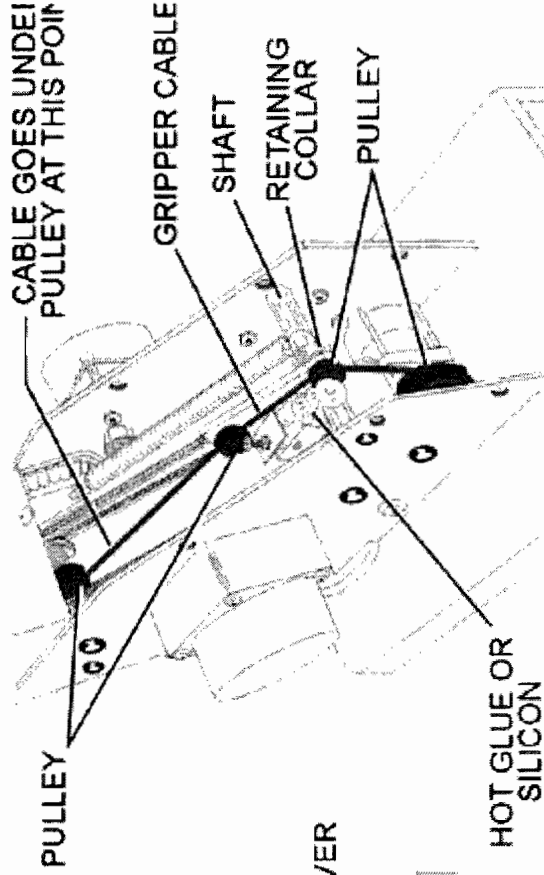
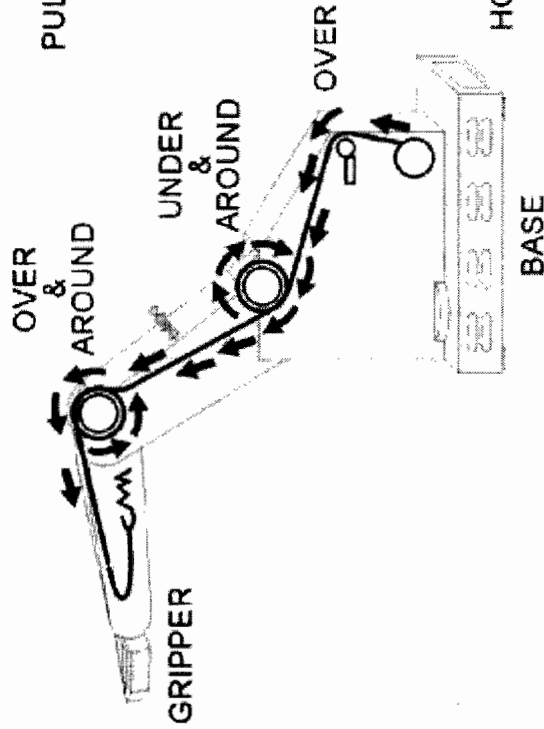
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