

Installing a Gripper with a Mini45 68-08014-RC January 8, 2013



Gripper Installation

 Refer to the PR2 Overview document for additional information.

*** Make sure the PR2 is powered off. Use ESD Precautions

- 1. Remove the gripper from the PR2 following instructions in toolkit Doc3
- 2. Position the PR2 at a corner of a table with an overhang and strap the forearm down with the camera facing up so the arm is not free to move (Fig. 1)



Fig. 1

3. Position the wrist rotation joint, so that the key-way is facing upwards (Fig. 2)



Fig. 2

4. Elevate the gripper on the table ~22mm. (Fig. 3)

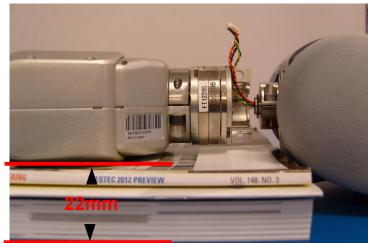


Fig. 3

5. Thread a short piece of solid wire (eg 26 AWG) through the gripper and F/T bodies and use it as a pull wire. (Fig. 4)



Fig. 4



Gripper Installation Continued

6. Shape the gripper wire with a bend just outside the connector and make a hook with the black pull wire. (Fig. 5)

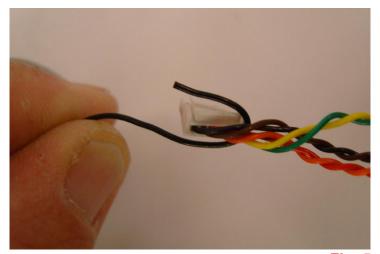


Fig. 5

7. Twist the pull wire together a couple turns (neatly), and then trim it flush so that no part of the wire is hanging out. (Fig. 6)

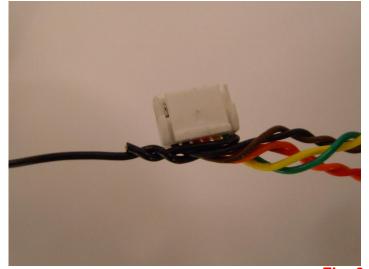


Fig. 6

8. Gently pull the wire through as you move the gripper closer to the forearm. (Fig. 7)
***Be careful of delicate electronics, wires, and mechanics



Fig. 7

- 9. Pivot the wrist up slightly while picking up and rotating the gripper to align the key to mount it to the wrist.
- 10. Make sure that the gripper is fully seated onto the forearm.
- 11.Add the clamp with its washers and screws. Use Loctite 248 and a torque of 1.36N-M.
- ***Make sure to tighten the two screws equally



Fig. 8



Gripper Installation Continued

12. Remove the pull wire and insert the connector as shown in (Fig. 9)

***Be careful of electronics, wires, and mechanics



Fig. 9

13. Mount the cover plate with the two 68-03061-05 (M3x0.50x5) screws, using a small amount of Loctite 248, and a torque value of 0.34N-M. (Fig. 10)



Fig. 10

***DO NOT disturb the two screws that mount the gripper to the Mini45 Sensor (shown below). If touched or altered, damage may occur.



