



Installing a Gripper with
a Mini45

68-08014-RB

December 19, 2012



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)

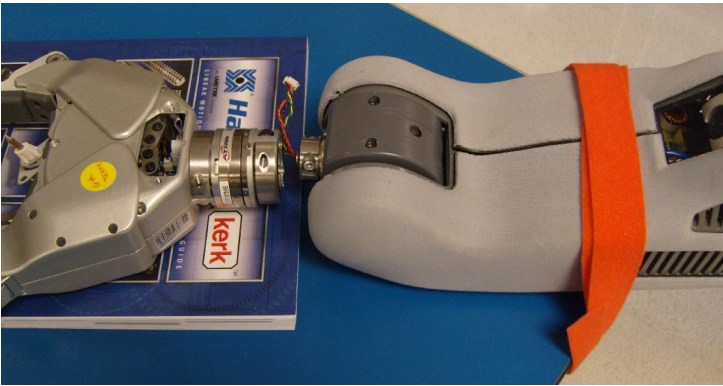


Fig. 1

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

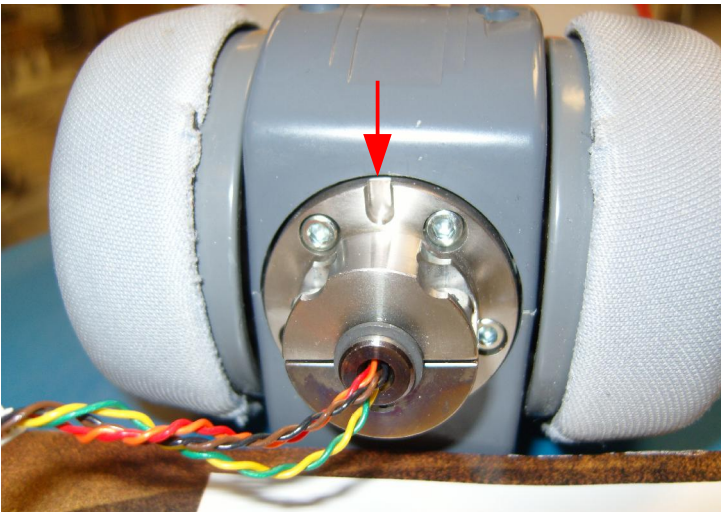


Fig. 2

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

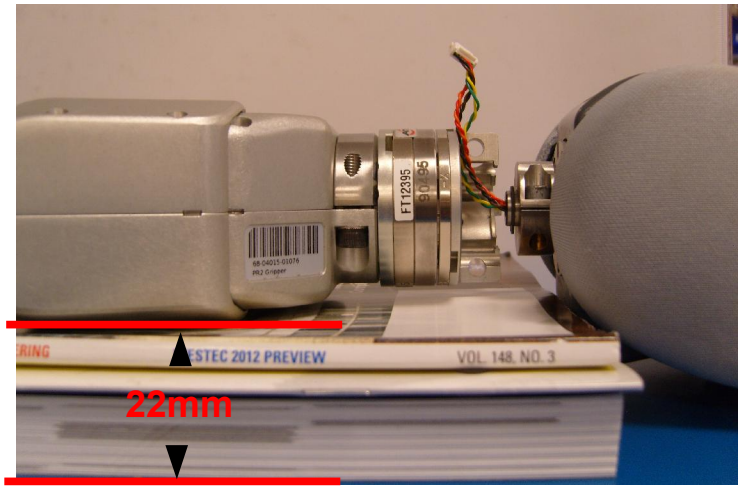


Fig. 3

5. Thread a short piece of solid wire (eg 30 AWG) through the gripper and F/T bodies and use it as a pull wire. (Fig. 4)

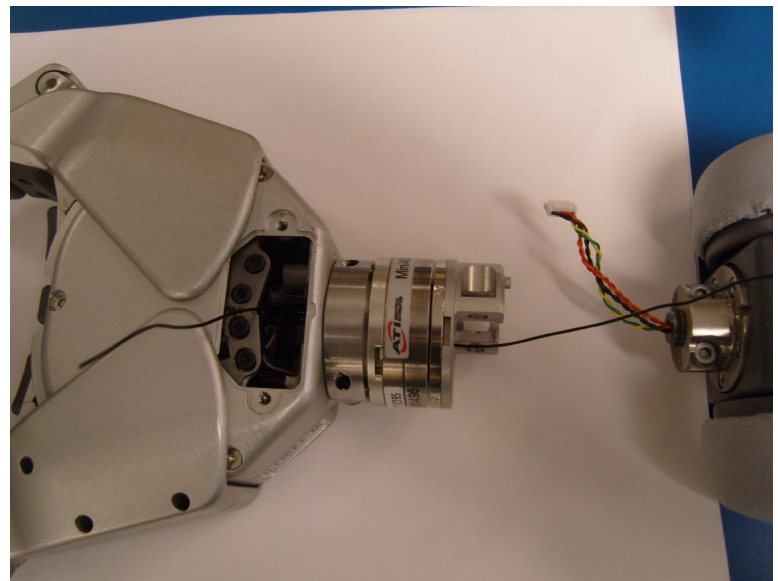


Fig. 4

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)

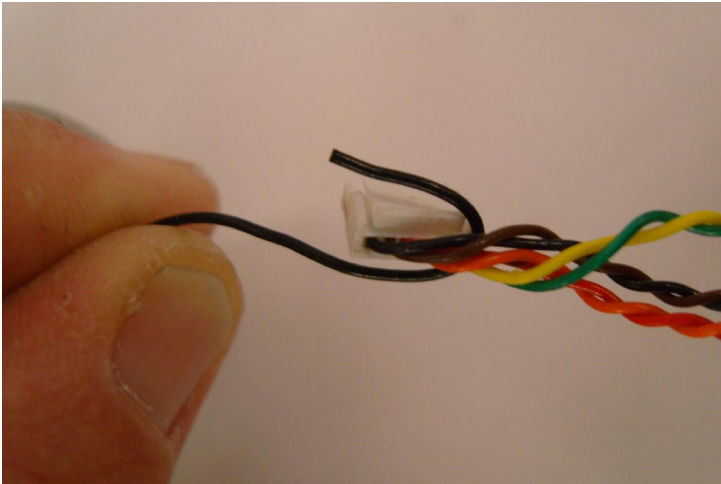


Fig. 5

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

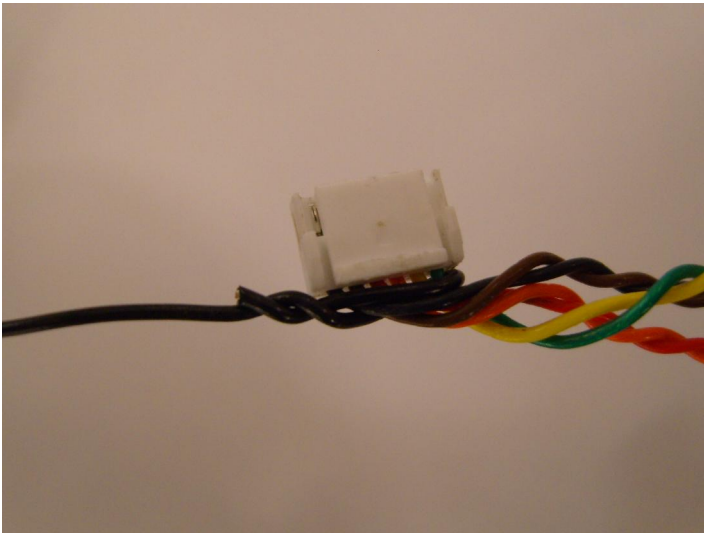


Fig. 6

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 1.36Nm.

***Make sure to tighten the two screws equally

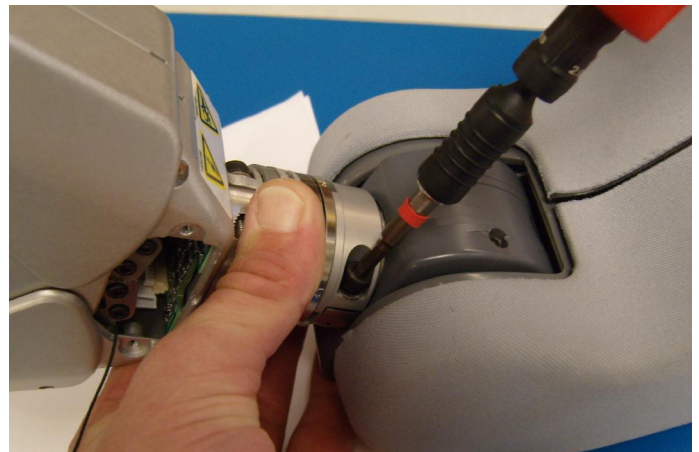


Fig. 8