

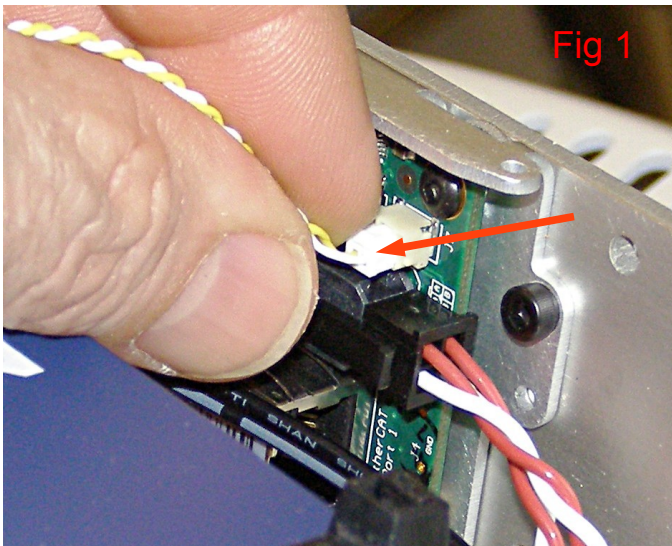


Toolkit Doc29 Steeo Camera
March 1, 2011

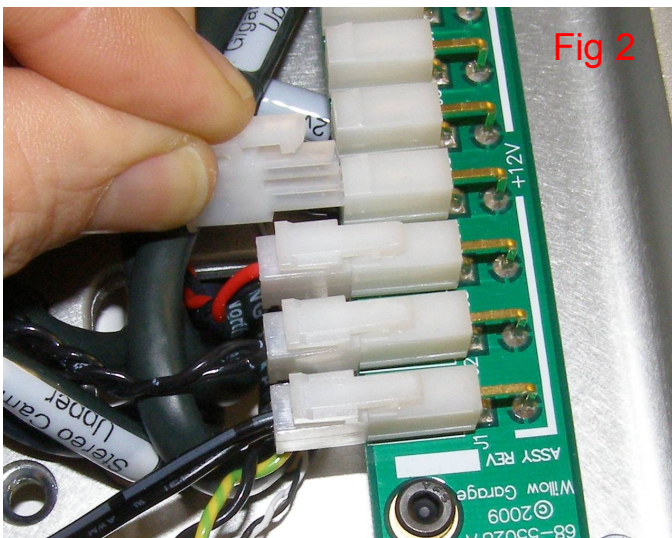


Stereo Camera Remove

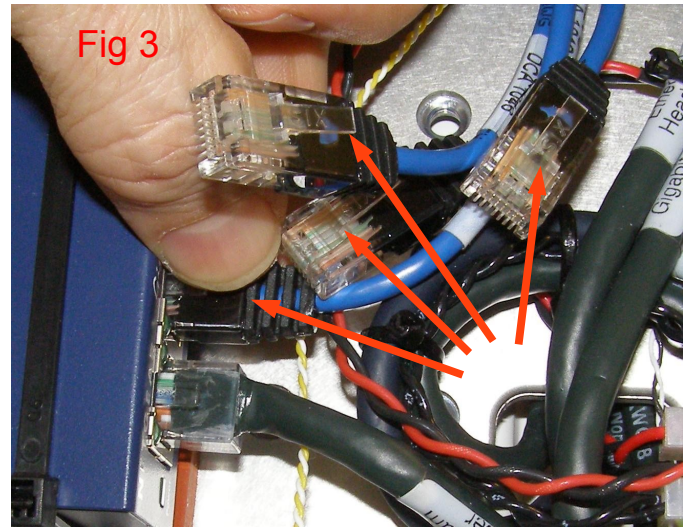
- Refer to the PR2 Overview document for additional information.
- Make sure the Robot is turned off and unplugged from wall power.
- Remove the Head Pan Tilt Left. (Doc11)
- Remove the Head Pan Tilt Right. (Doc11)
- Remove the Head Hatch. (Doc12)
- Remove the Head Bezel Rear. (Doc12)
- Remove the Head Bezel Front. (Doc12)
- Remove the Head Bonnet. (Doc12)
- Pushing down on the latch, remove the Camera trigger cable from the MCB. (Fig. 1)



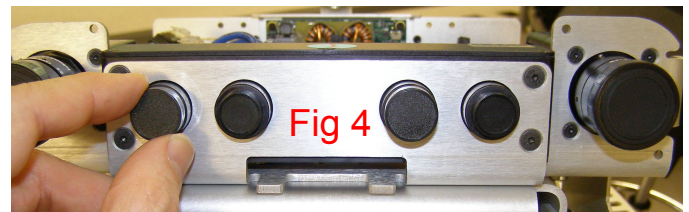
- Disconnect the Power connector. (Fig. 2)



- Unplug the 4 Ethernet cables. (Fig. 3)



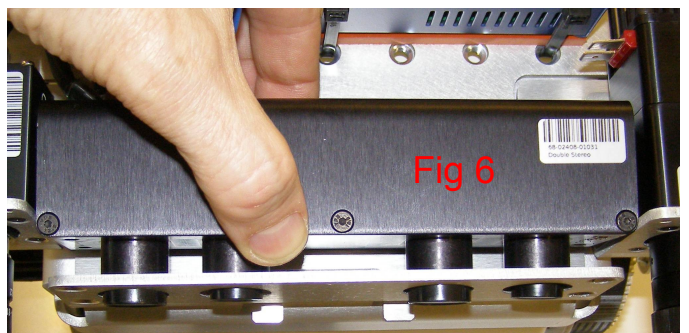
- Make sure the lens covers are in place before removing the Stereo Camera. (Fig. 4)



- Using the 2.5mm bit together with the T-handle driver, remove the 4 mounting screws. (Fig. 5)



- Lifting the back of the Stereo camera, remove the camera from the rear being careful not to damage the lens assembly. (Fig. 6)



Stereo Camera Install

- Reverse the removal procedure.
- Carefully feed the camera lenses through the mounting holes.
- Using Loctite 248, install the 4 screws and torque to 1.36Nm using the Large torque driver.
- Plug the Power connector back into the +12v Breakout board.
- Plug the 4 Ethercat cables into the Hub.
- Plug the Camera trigger cable back into the MCB.
- Follow the installation procedures in Doc11 and Doc12 to reassemble the Head covers.