

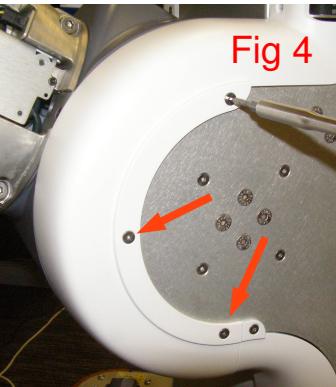
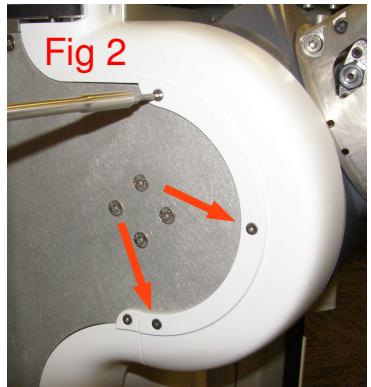
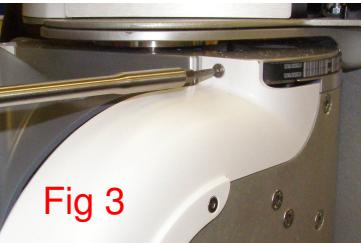
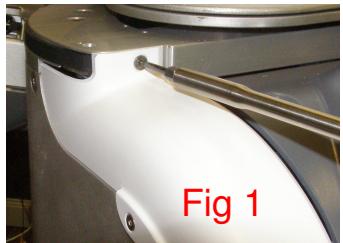


Toolkit Doc16 Shoulder Covers

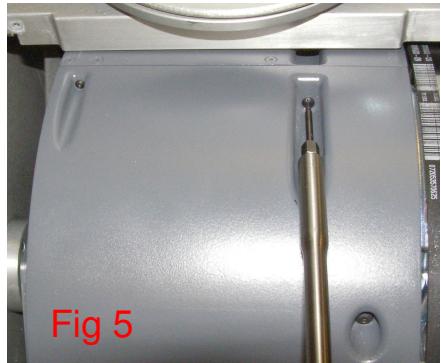
May 19, 2010

# Shoulder Covers R/R (1)

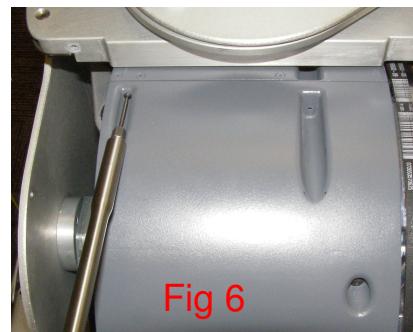
- Turret Cover Left - 2656 + Right - 2657, Removal
  1. Using the 2.5mm bit with the T-handle driver, remove 4 Flathead screw for each side. 3064-06 (Fig 1-4)



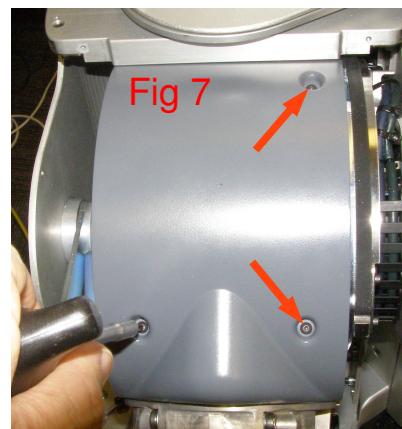
- Turret Cover Left and Right, Install
  1. Reverse the removal procedure.
  2. Using Loctite 248, install the 4 screws and torque to 0.80Nm using the Small torque driver.
- Shoulder Cover, Removal – 1665
  1. Rotate the Arm all the way down to expose the screws at the top.
  2. Using the 2mm bit with the T-handle driver, remove 1 Panhead screw. 2500-06 (Fig 5)



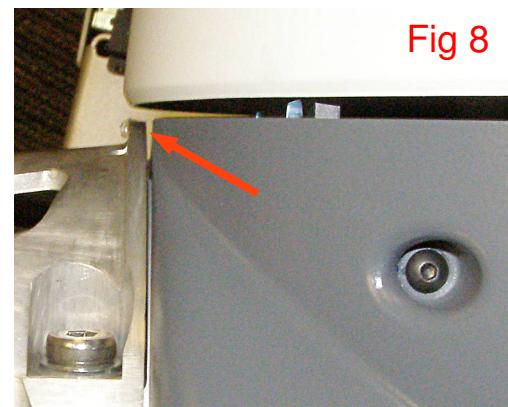
3. Using the 1.5mm bit with the T-handle driver, remove 1 Panhead screw. 2019-12 (Fig 6)



4. Using the 2.5mm bit with the T-handle driver, remove 3 Panhead screws. 2085-10 (Fig 7)



- Shoulder Cover, Install
  1. Using Loctite 248, and the 2.5mm bit install the 3 Panhead screws and torque to 0.80Nm using the Small torque driver. Bias the cover towards the Robot to insure there is a small gap between it and the Upper Arm. (Fig 7,8)



2. Hold the two covers in alignment and together with your hand. Using Loctite 248, combine the 2mm bit with the hex 1/4 adapter and the 1/4 male to 1/4 hex adapter, install the Panhead screw and torque to 0.34Nm using the Small torque driver. (Fig 9)

# Shoulder Covers R/R (2)

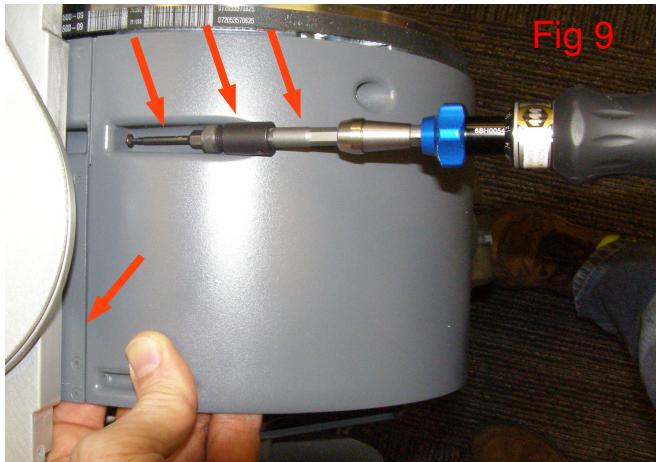


Fig 9

- Shoulder Cover Bottom, Removal – 2502
  1. First remove the Shoulder Cover.
  2. Using the 2.5mm bit with the T-handle driver, remove 3 Panhead screw. 2085-10 (Fig 11)

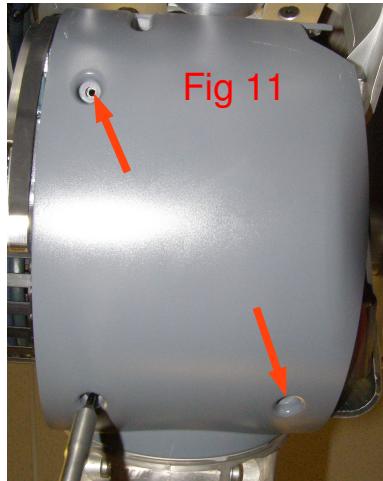


Fig 11

3. Using Loctite 248, combine the 1.5mm bit with the hex 1/4 adapter and the 1/4 male to 1/4 hex adapter, install the screw and torque to 0.34Nm using the Small torque driver. (Fig 10)

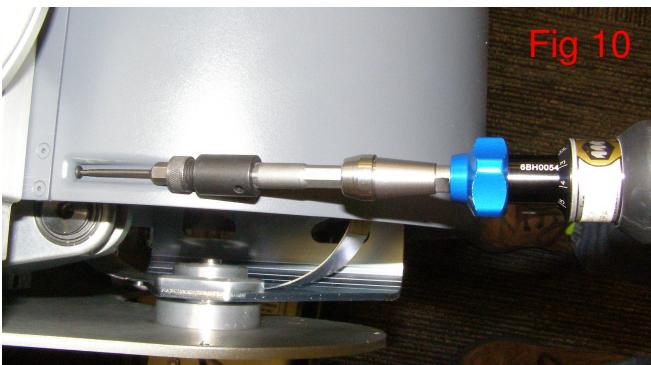


Fig 10

4. Verify that there is clearance between the covers and the Shoulder. It may be necessary to loosen the 2.5mm screw, push down on the cover while re-tightening the screw. (Fig 11)

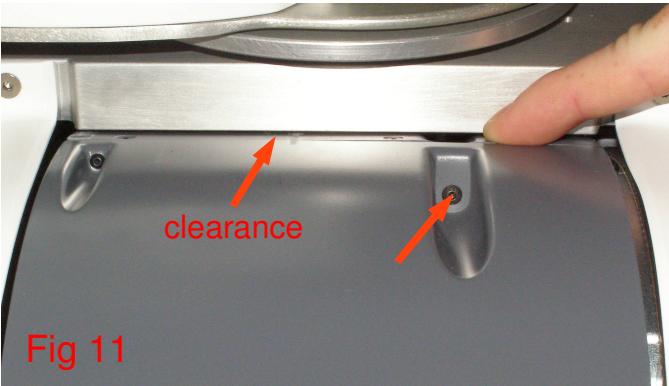


Fig 11

- Shoulder Cover Bottom, Install
  1. Reverse the removal procedure.
  2. Using Loctite 248, install the 3 screws and torque to 0.68Nm using the Small torque driver.
- Turret Cover, Removal – 2655
  1. First remove the Shoulder Cover and Shoulder Cover Bottom.
  2. Using the 2.5mm bit with the T-handle driver, remove 13 screws. 3064-06, 3064-12 (Fig 12,13,14)



Fig 12

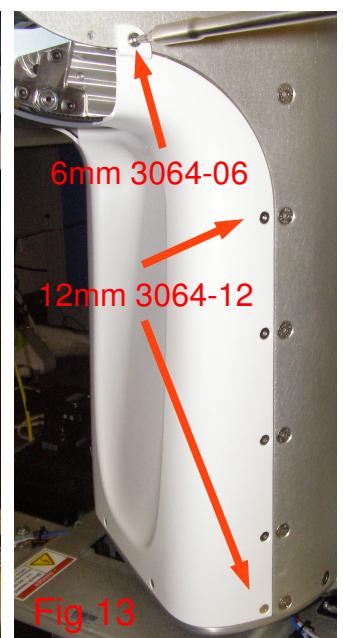
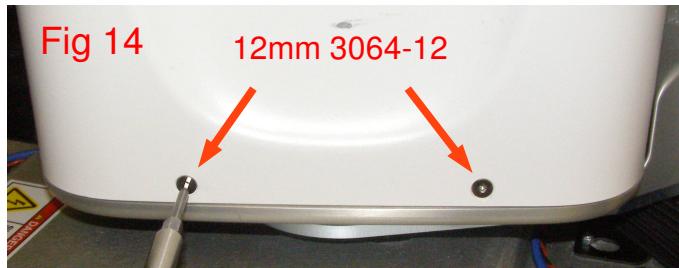


Fig 13

# Shoulder Covers R/R (3)



- Turret Cover, Install
  1. Reverse the removal procedure.
  2. Using Loctite 248, install 2 3064-06 screws at the top and the remaining 11 3064-12 screws and torque to 0.80Nm using the Small torque driver.