



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)

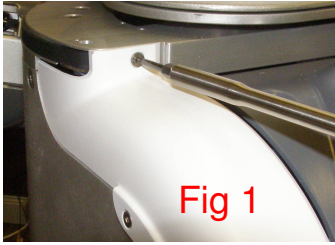


Fig 1

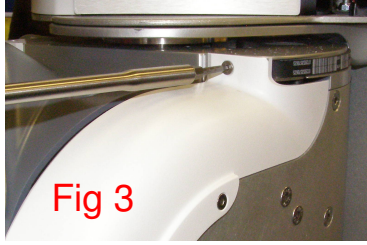


Fig 3

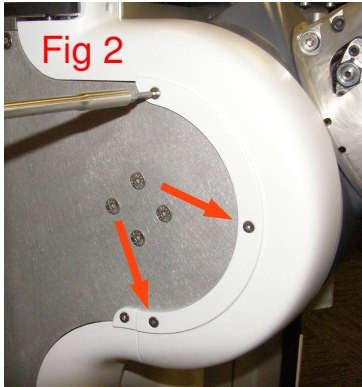


Fig 2

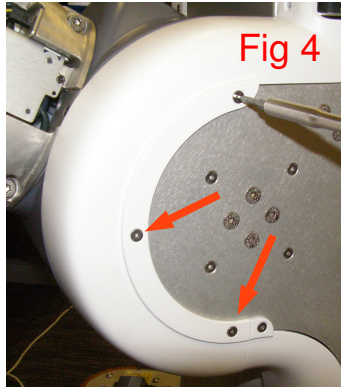


Fig 4

- 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)

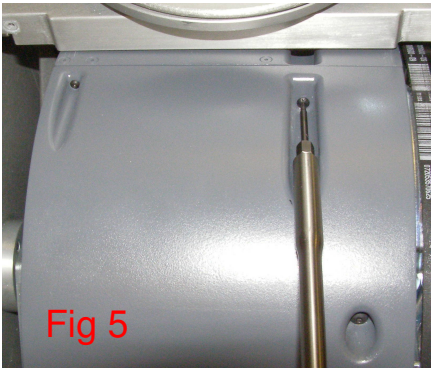


Fig 5

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

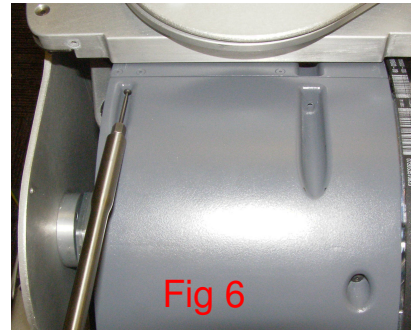


Fig 6

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

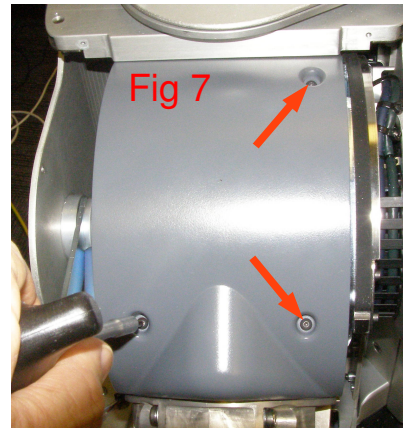


Fig 7

- 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)

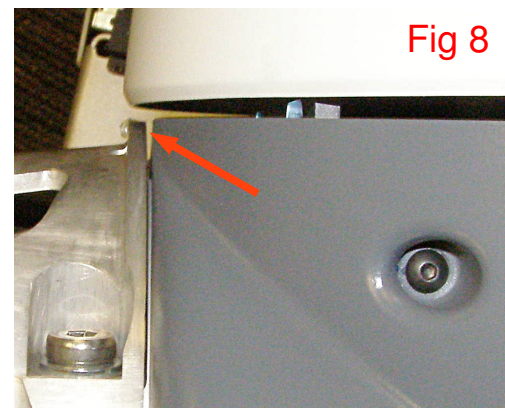


Fig 8

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)

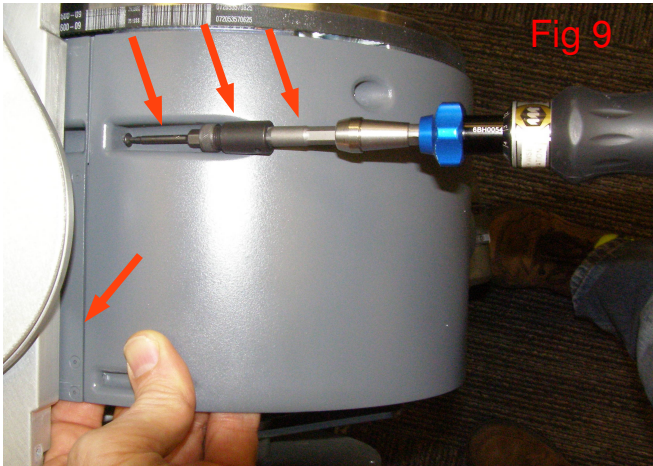


Fig 9

- 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)

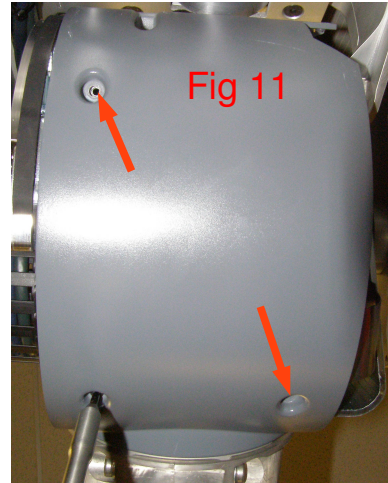


Fig 11

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)

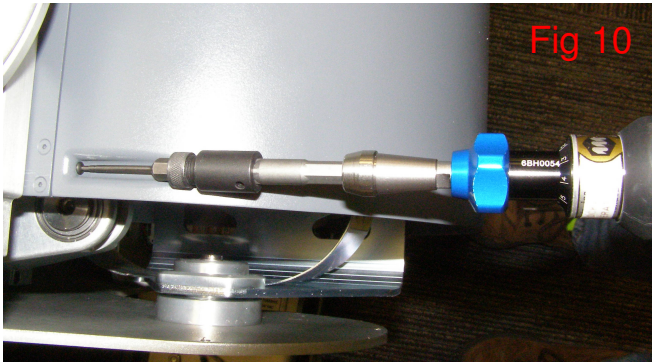


Fig 10

- 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)

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)

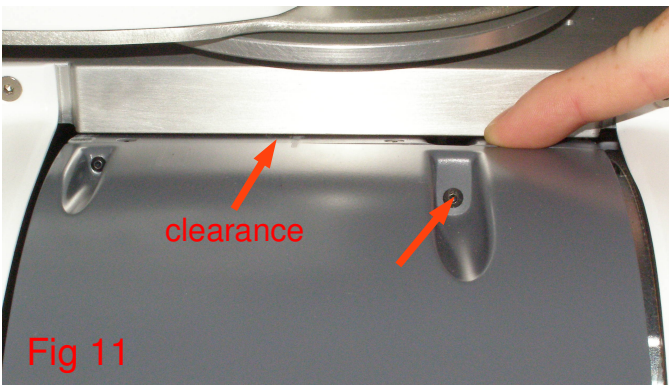


Fig 11



Fig 12

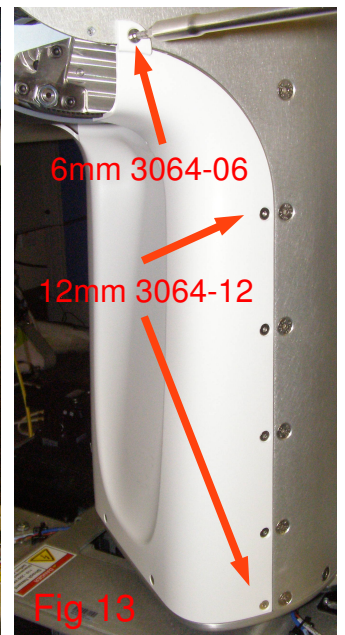
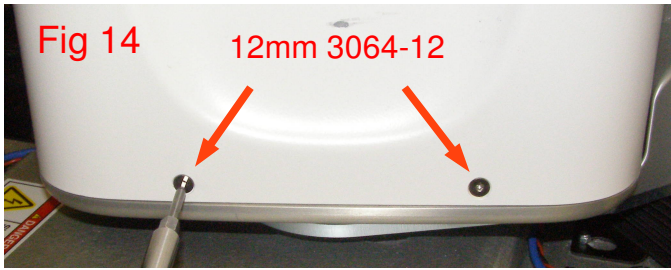


Fig 13

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.