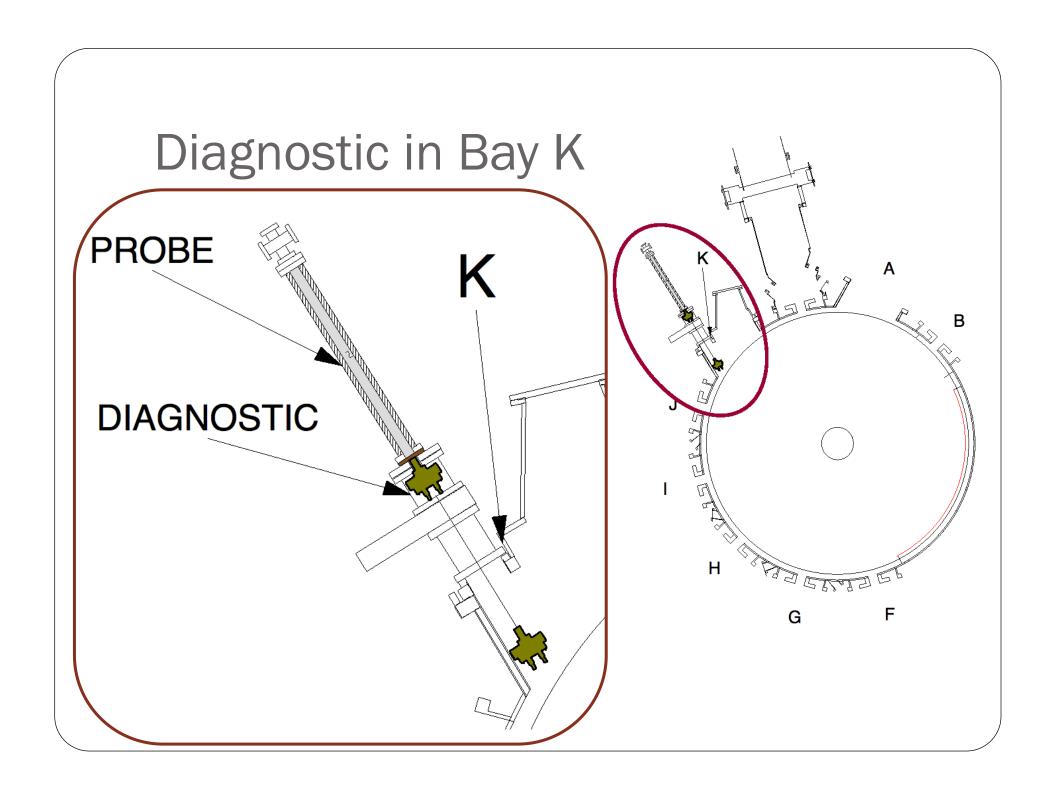
DIAGNOSTIC DESIGN

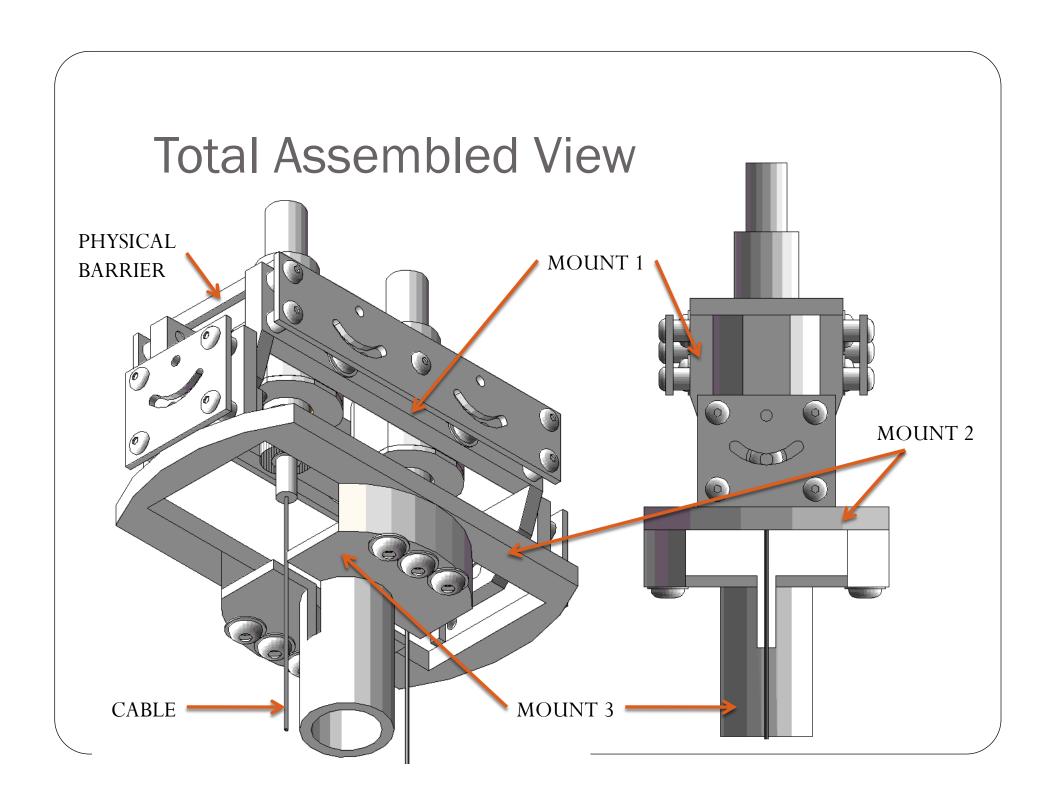
Final Design Review

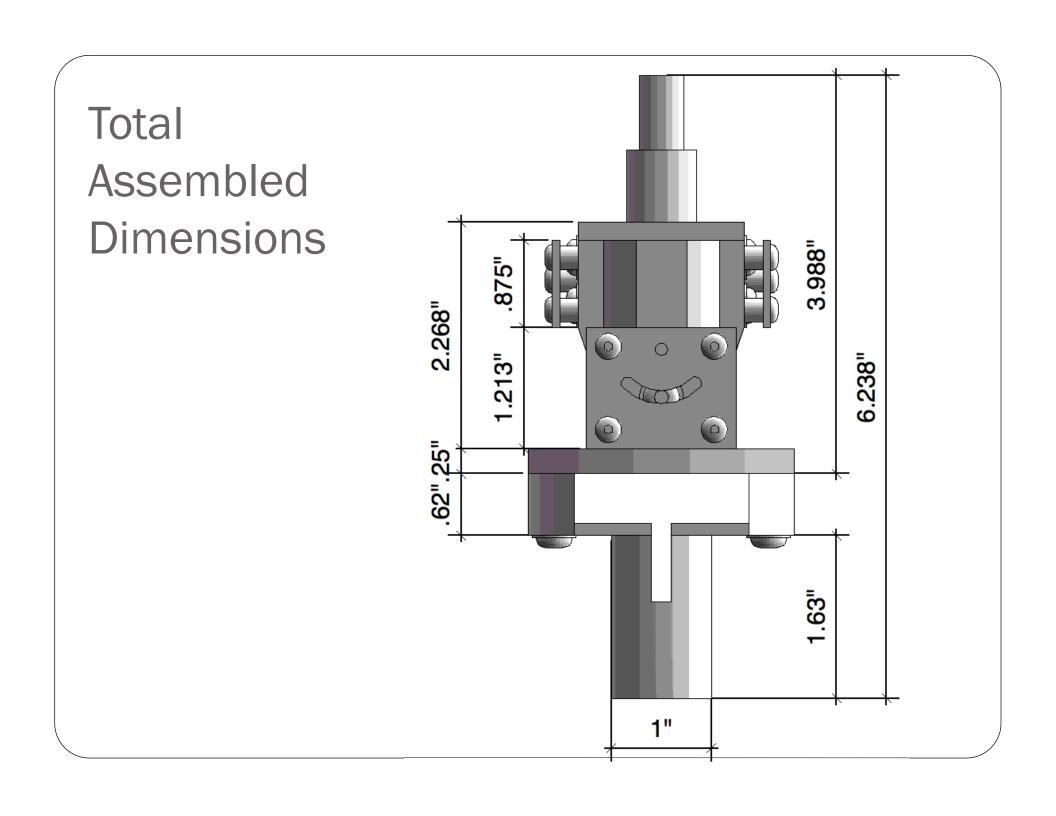
Overview

- Materials
 - 316 stainless steel
 - PPPL will silver plate all screws
- Secure Screws
 - Spot-welding SS wire
 - Slotted coverplates
- Diagnostic Design
 - Physical barriers
 - Rotation capabilities

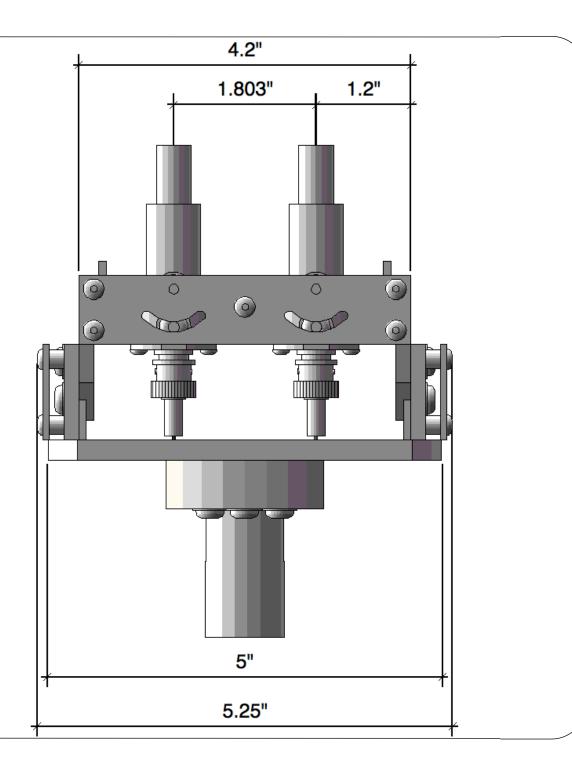


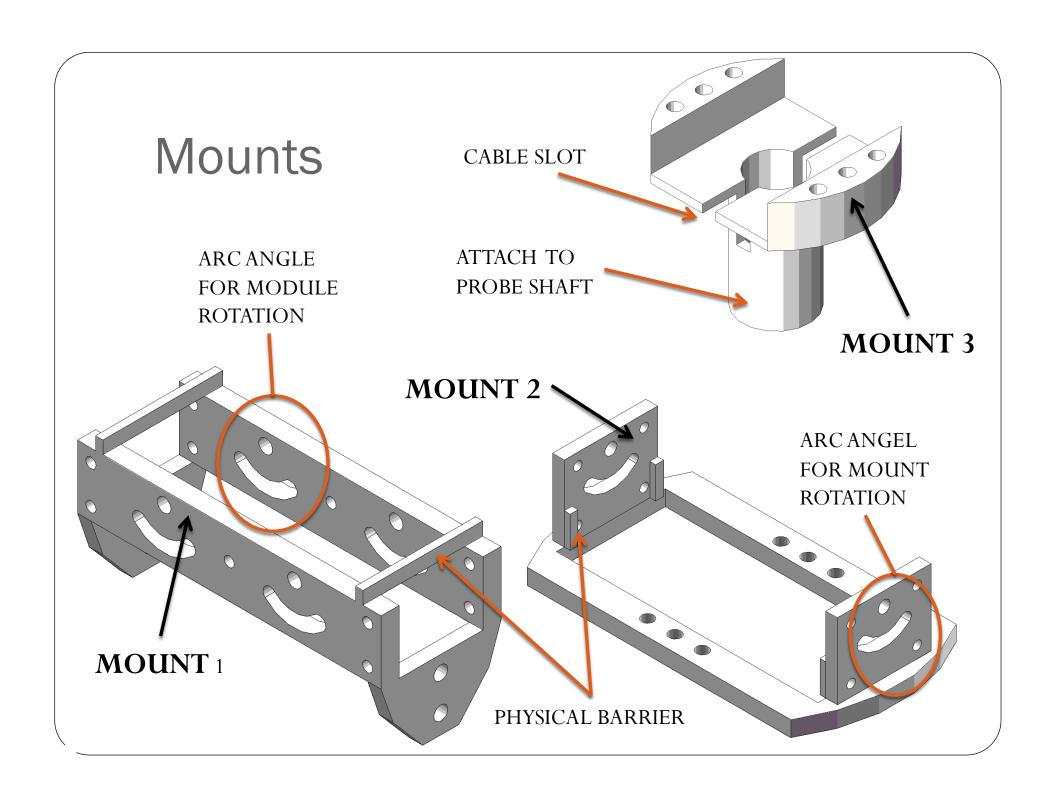
Total Assembled View MODULE MOUNT 2 MOUNT 1 MOUNT 3 **PHYSICAL** BARRIER **COVERPLATES**





Total Assembled Dimensions





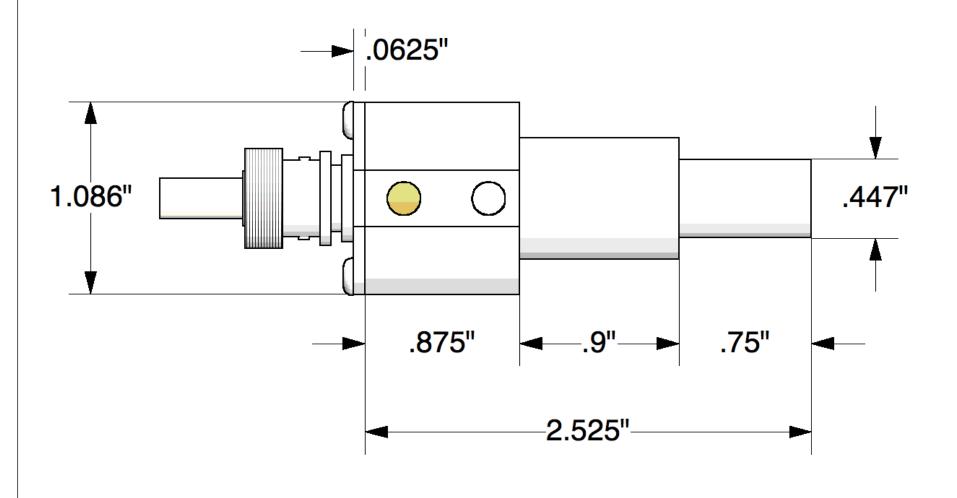
Module Assembled View

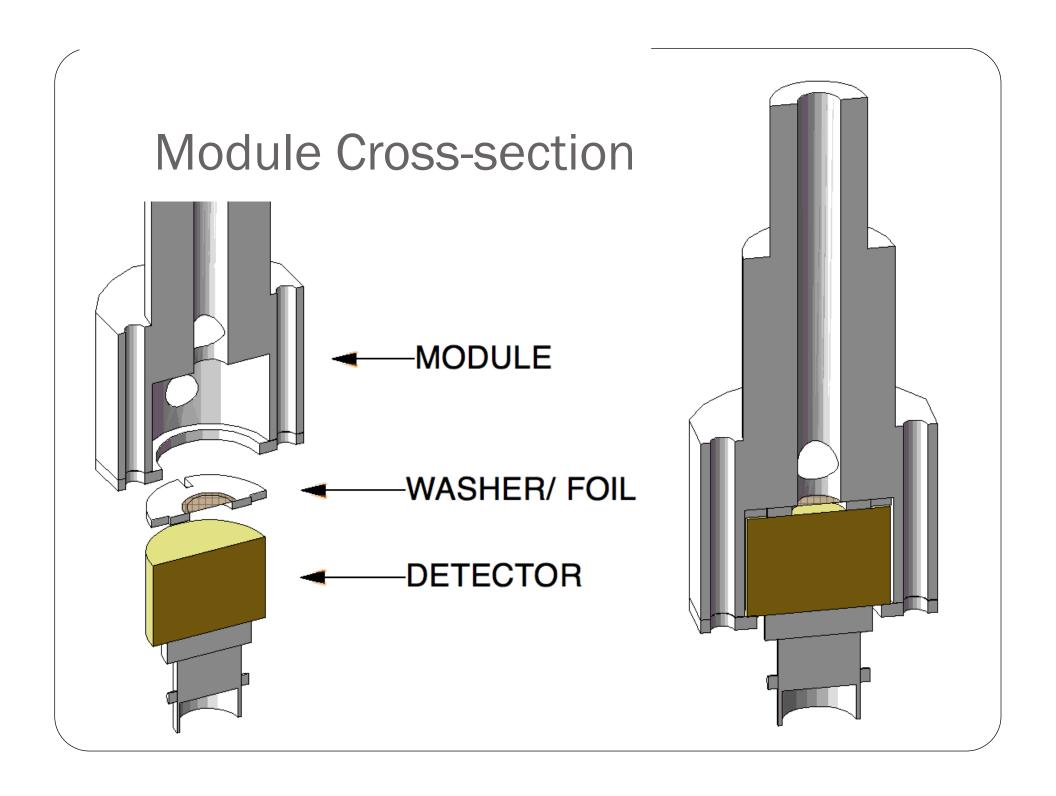


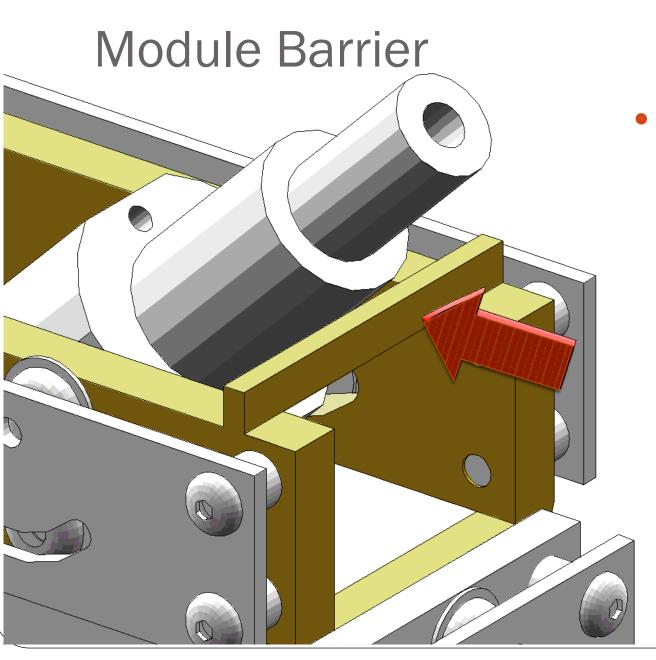
Cable Base Detector Washer Module



Module Dimensions



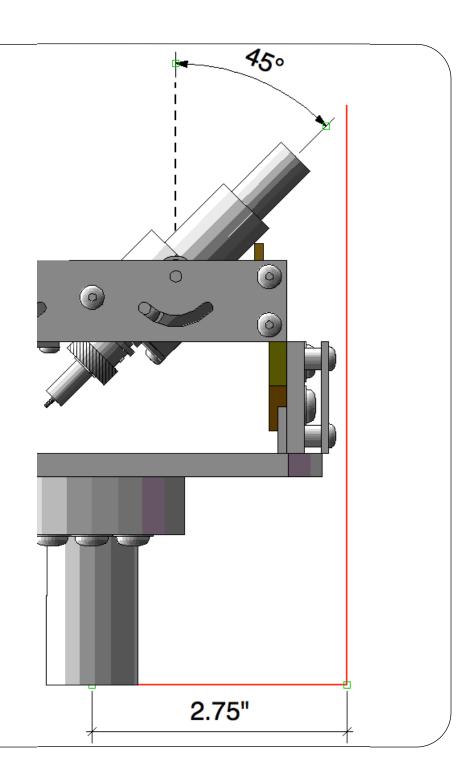




 Physical barrier prevents module from hitting walls of Bay K

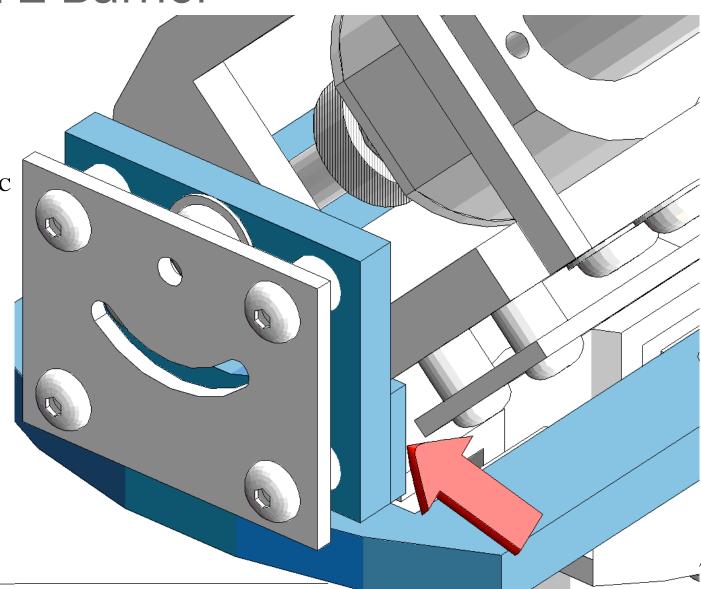
Module Barrier

- Module will stay
 well within a 5.5
 inch diameter due
 to Physical Barrier
- Prevents module from rotating too far



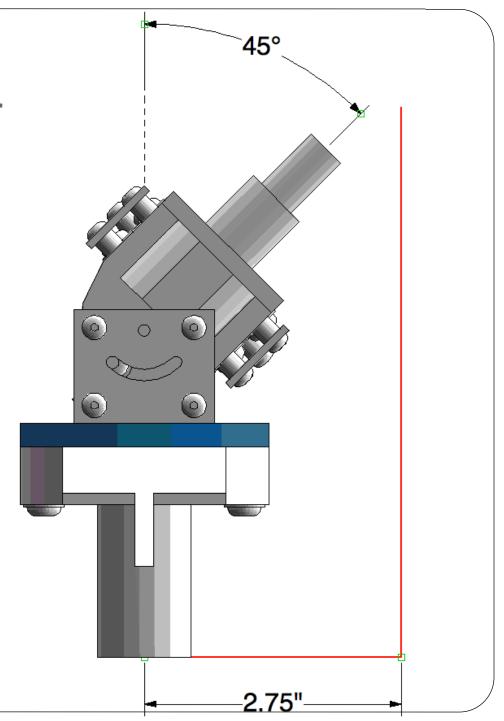
Mount 1 Barrier

Physical barrier prevents diagnostic from hitting walls of Bay K

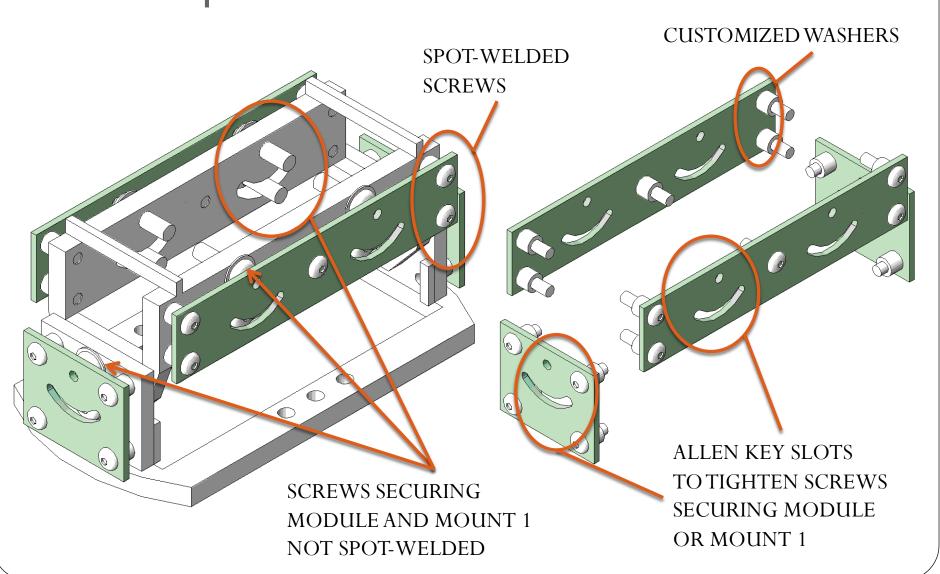


Mount 1 Barrier

- Diagnostic will stay well within a 5.5 inch diameter due to Physical Barrier.
- Prevents diagnostic from rotating too far

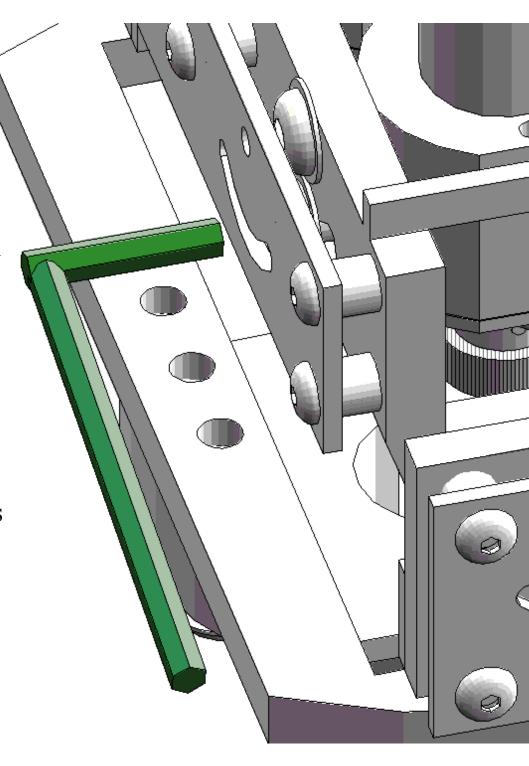


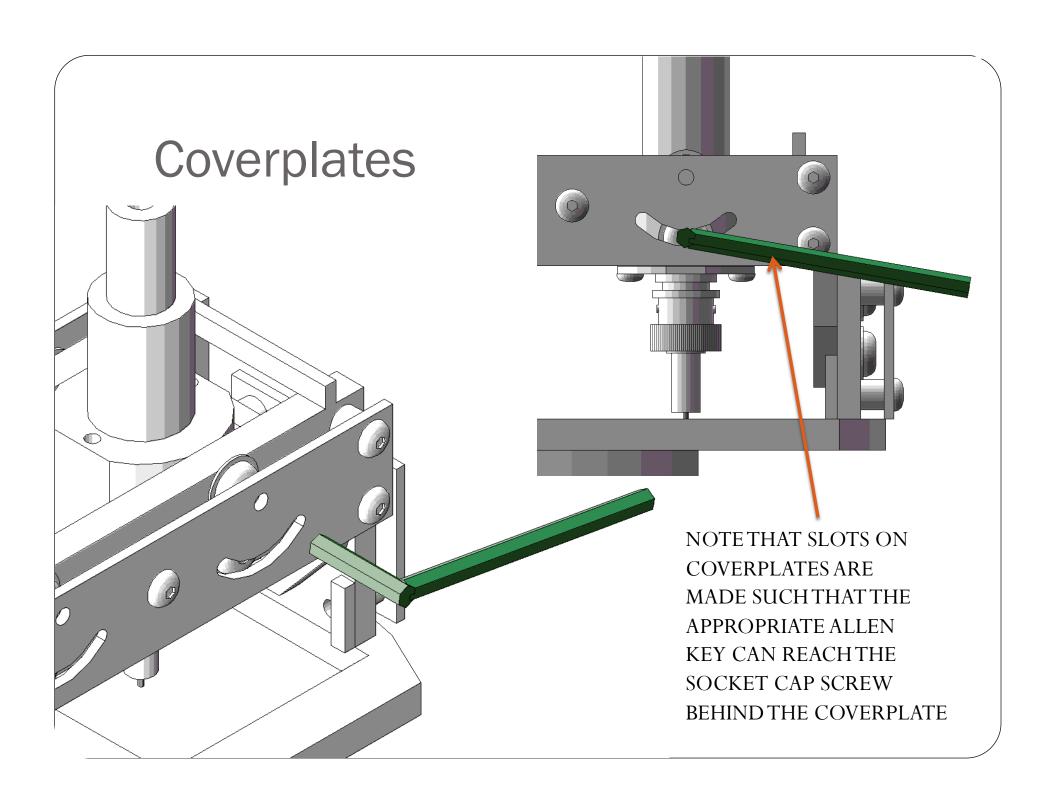
Coverplates Assembled View



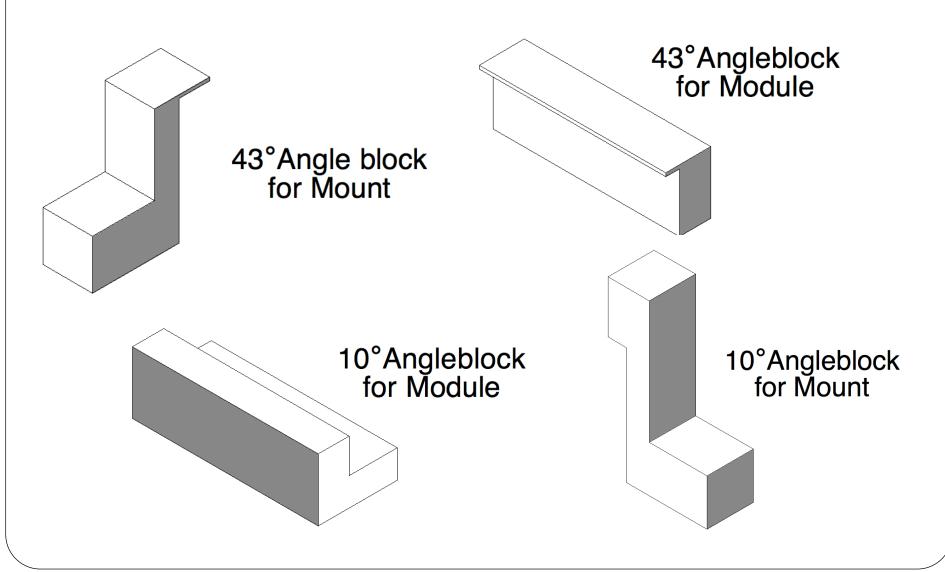
Coverplates

- Practical for changing module and mount rotation angle
- Holes are large enough for an Allen Key to fit, but not for the socket cap screw head to fall out
- Screws securing coverplates are spot-welded

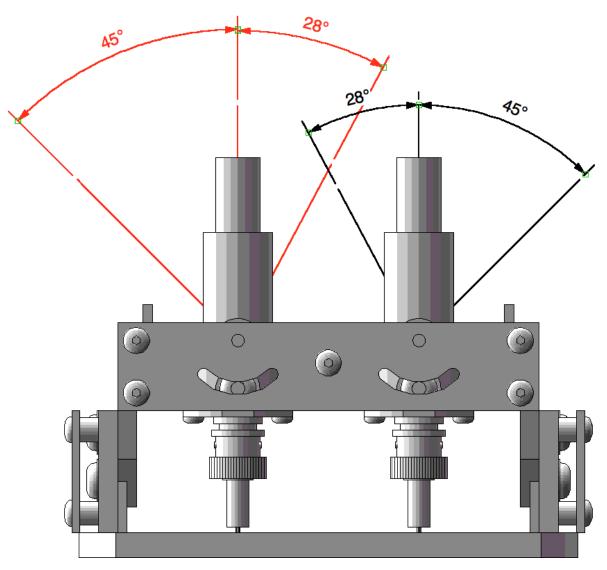




Angleblocks

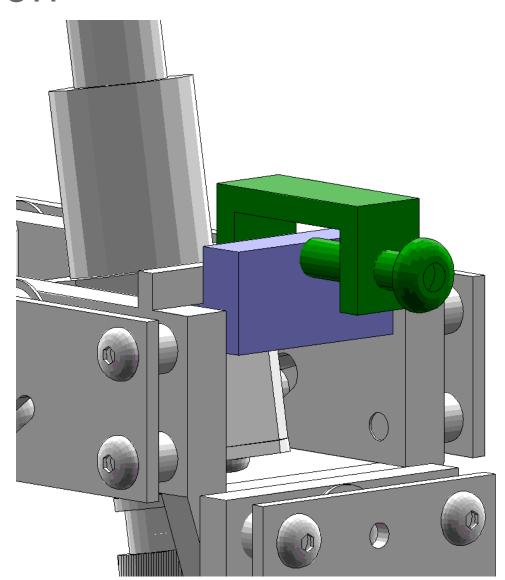


Module Rotation Range

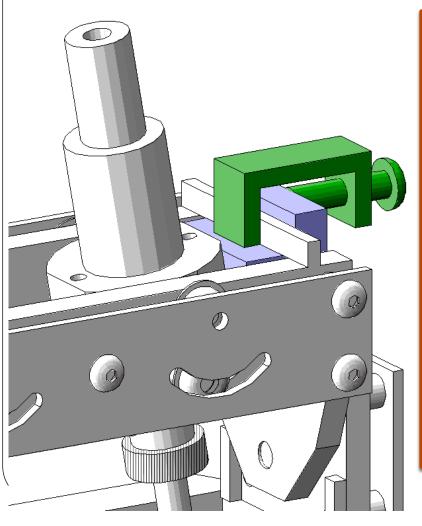


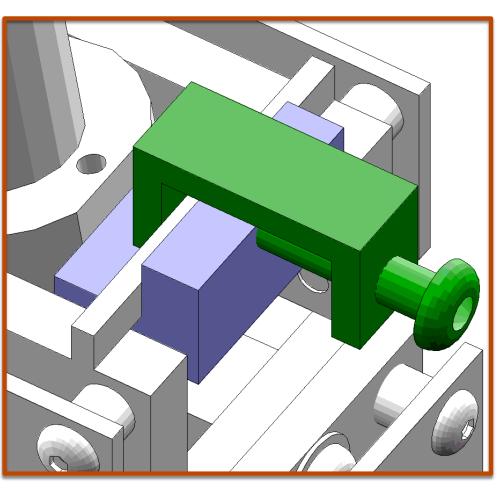
Module Rotation

- Angleblock is secured to physical barrier on mount with clamp
- Allen key is then used to loosen module so it can rest against angleblock (here 10 degrees)
- Allen key is used to secure module
- Clamp is removed and angleblock slides out

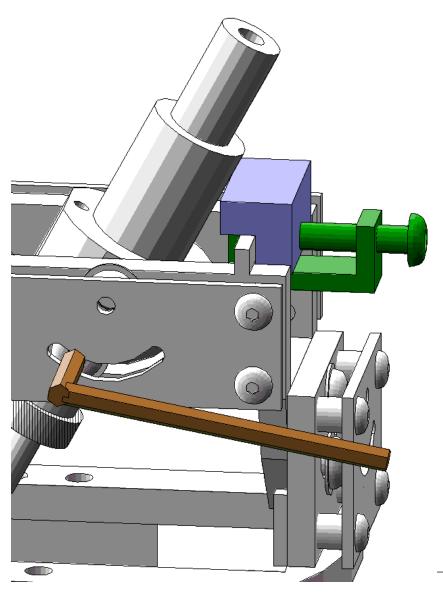


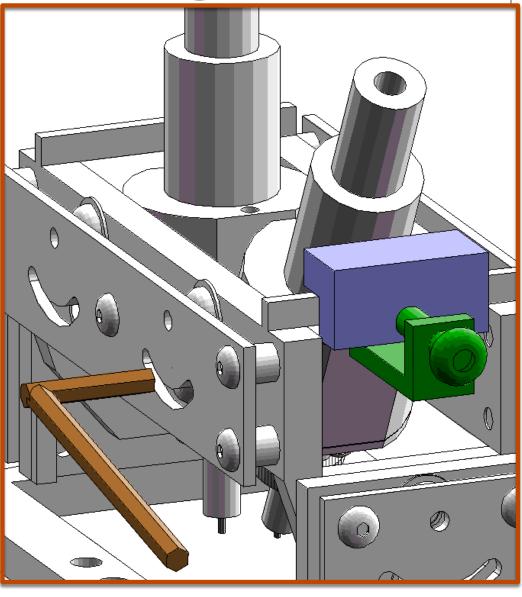
Module Rotation 10 Degrees



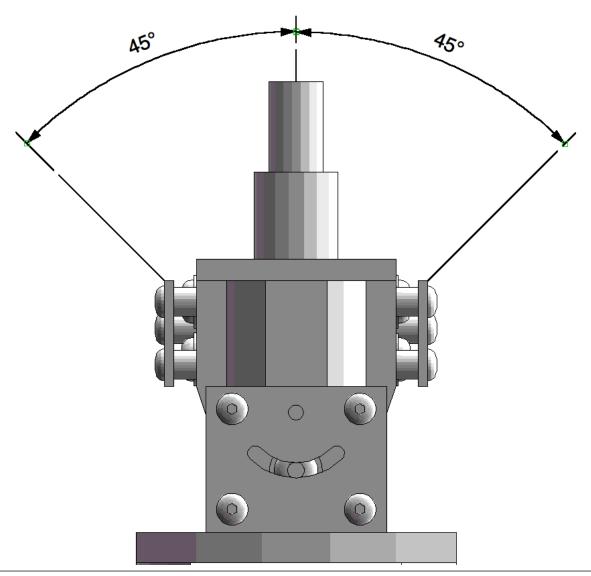


Module Rotation 28 Degrees



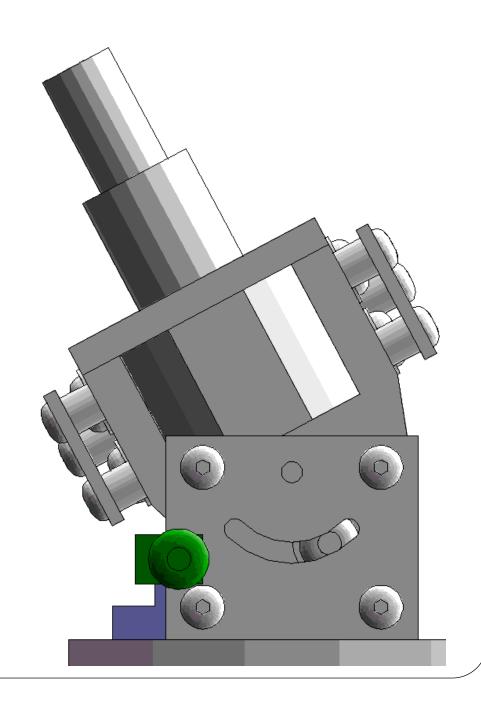


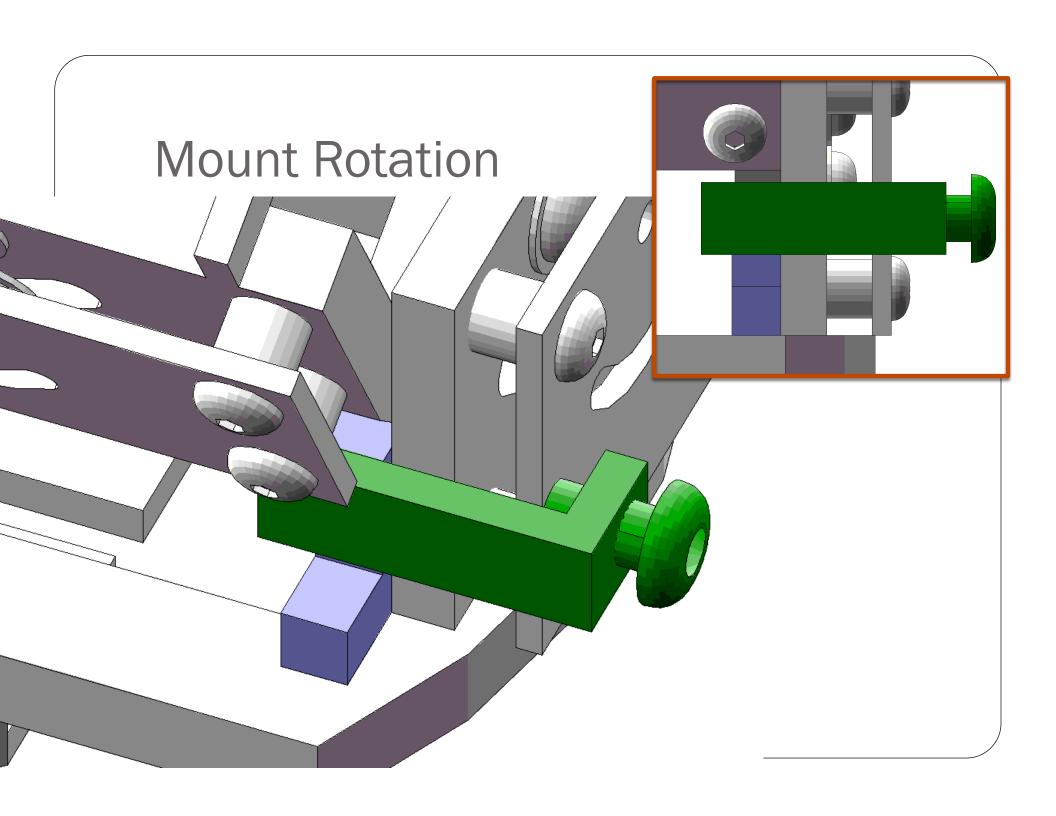
Mount Rotation Range



Mount Rotation

- Angleblock is secured to physical barrier on mount with clamp
- Allen key is then used to loosen mount so it can rest against angleblock (here 28 degrees)
- Allen key is used to secure mount
- Clamp is removed and angleblock slides out





Mount Rotation

