NOTES FOR DISCUSSION AT DESIGN MEETING (26/10/10)

Jigs drawing now online and ready for review:

TCP: D1002140

ERM: D1002201

BS/FM: D1002147

FOR THIS MEETING: QUESTIONS REGARDING BS/FM JIG DESIGN::

We are proposing one holder for both prisms (shown in slides 2-5), with their respective prism positions set in the holder before bonding.

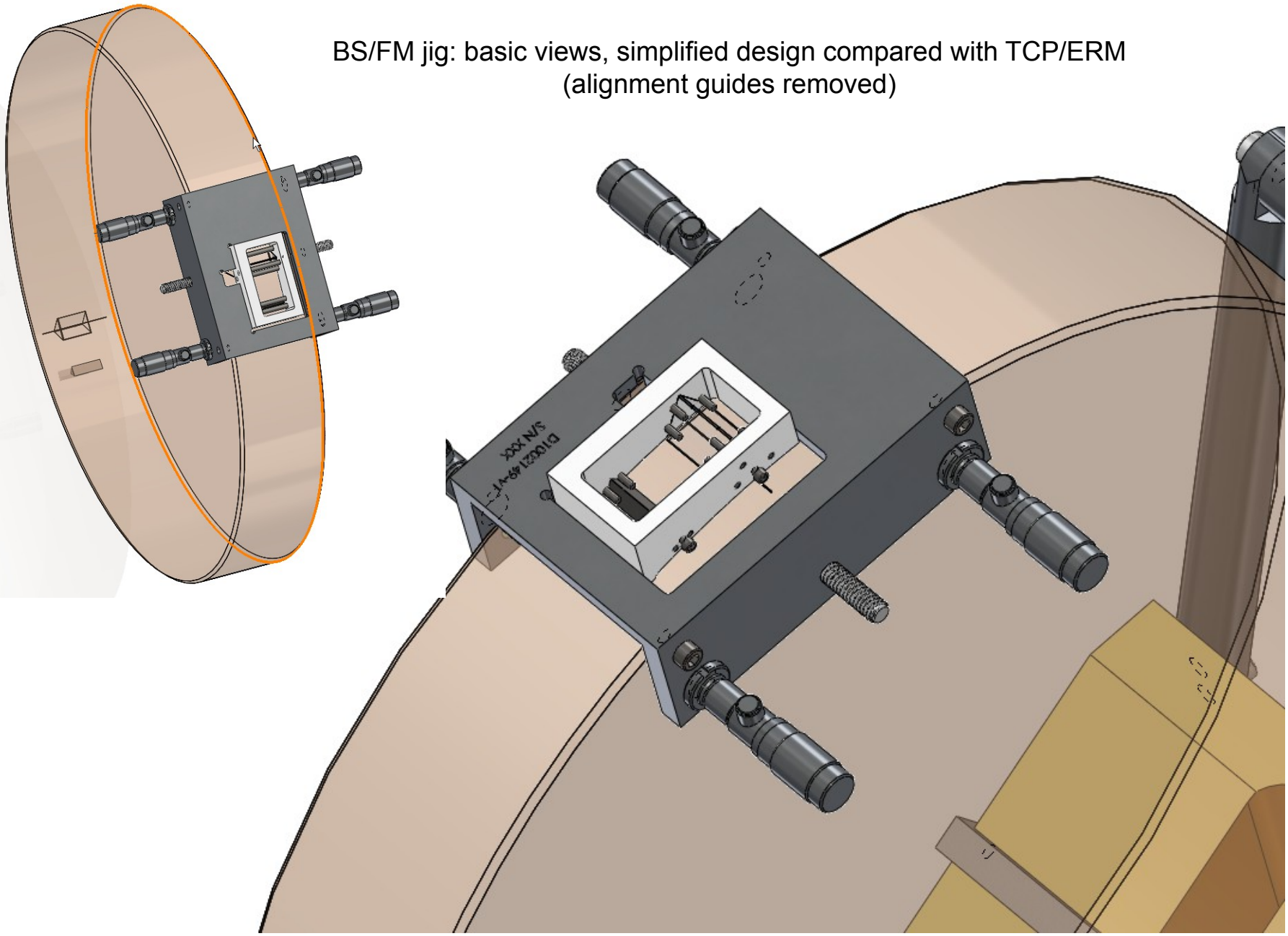
1. Confirm respective prism position (as in D1000576 & D0901076)

- main sapphire prism (D080765) coincident with COM
- secondary prism (D0902368) position – confirm respective angle…..see slides to follow (especially slide 5)

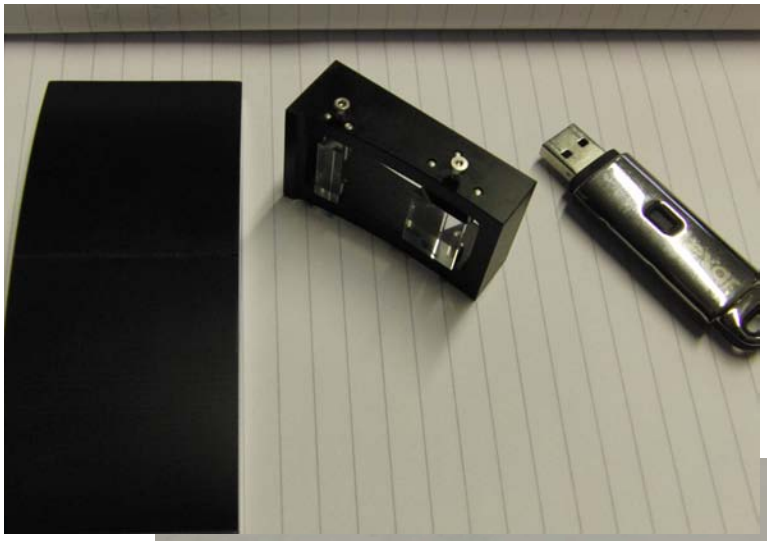
2. V-blocks: what is the preferred approach

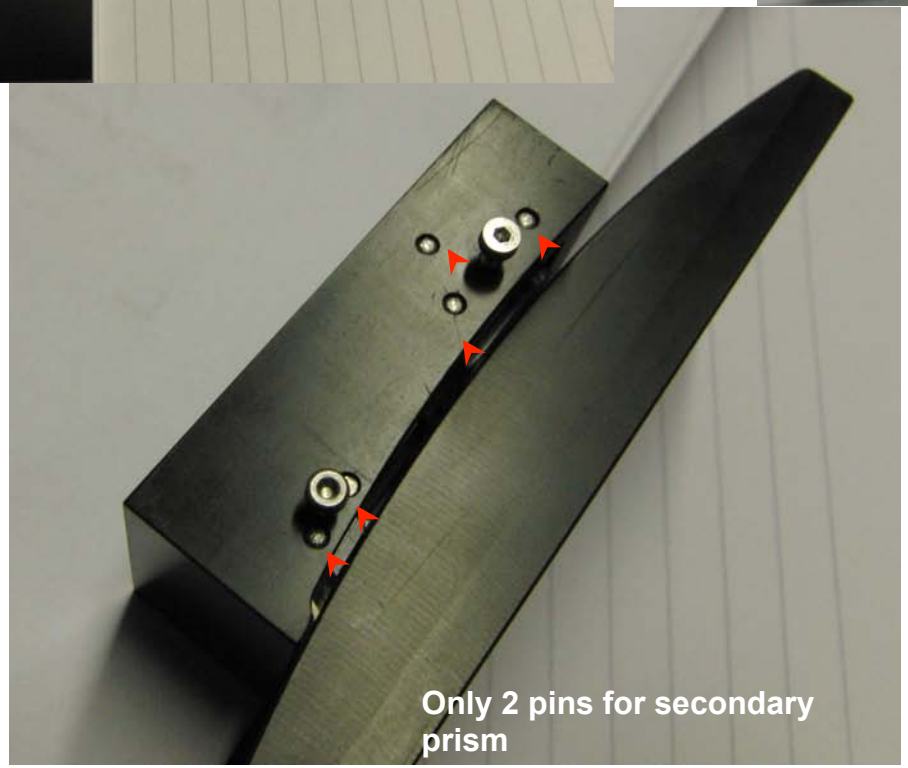
- Modify existing V-blocks at Hanford [D1001685 V-block Assembly (2 off)] (slide 6 to clarify issues)
  - Are there any specific requirements for a BS/FM V-block (i.e. is there something already in use?
  - Are there special clamping requirements?

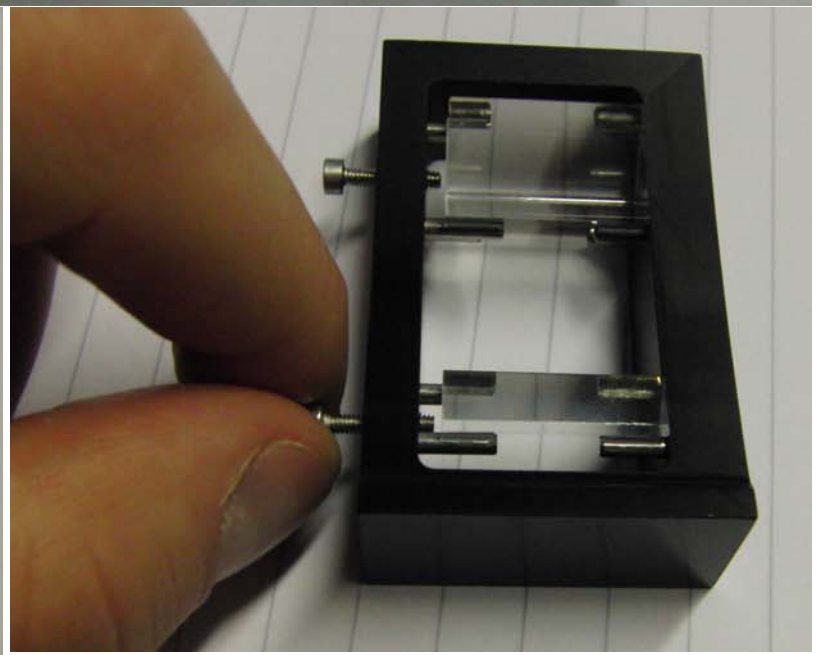
BS/FM jig: basic views, simplified design compared with TCP/ERM
(alignment guides removed)



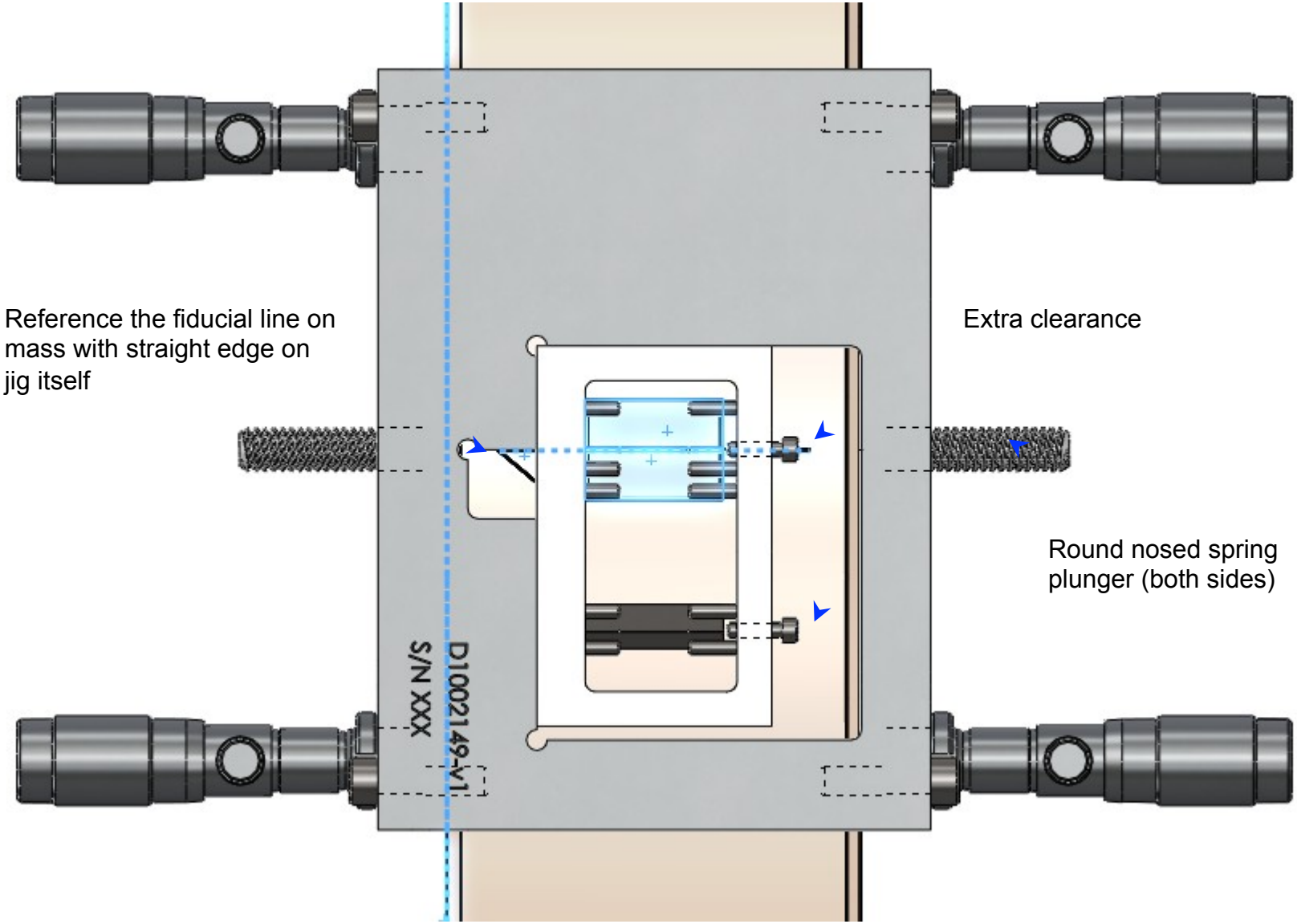
Prototype holder (made from POM) and mock prisms



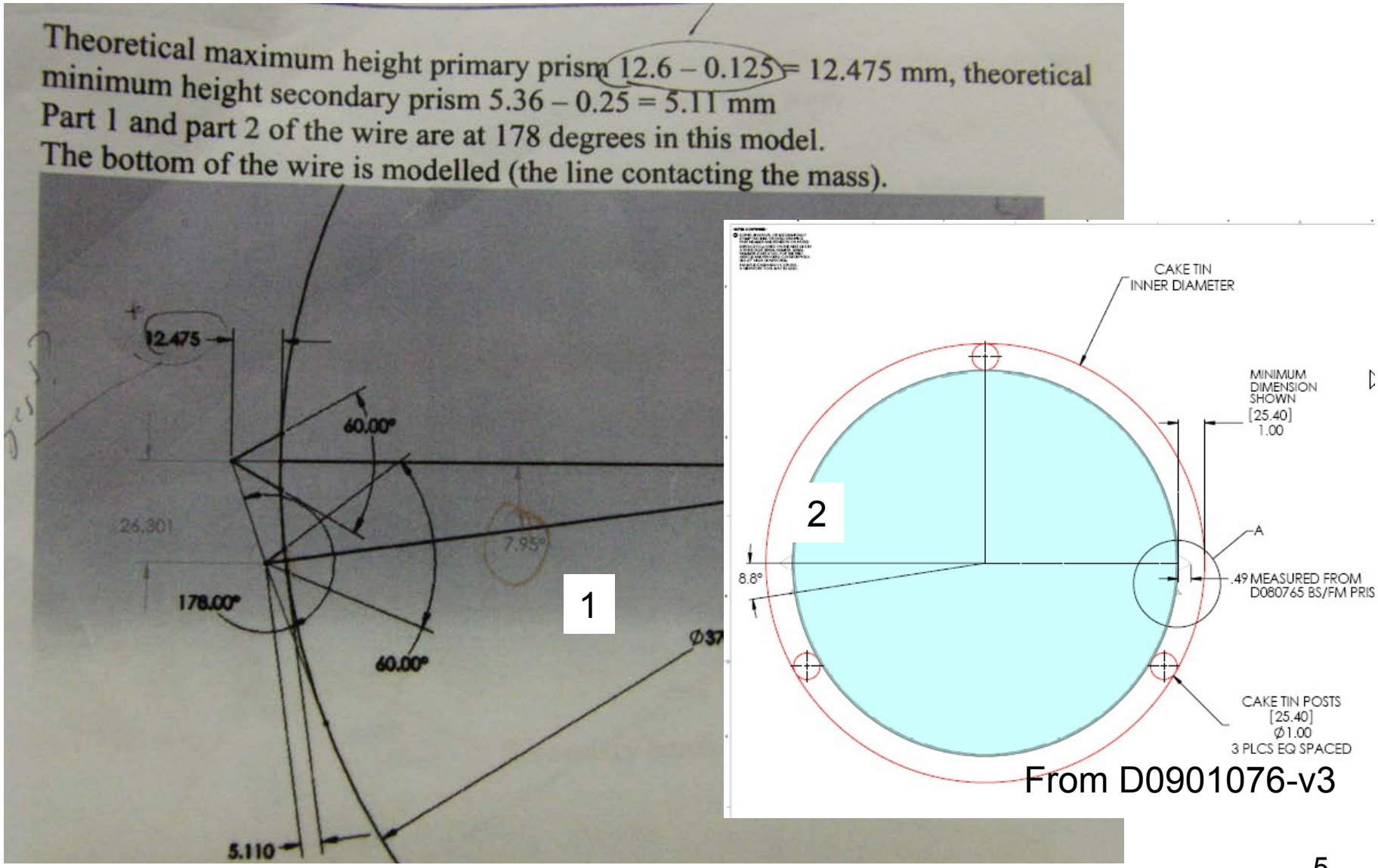




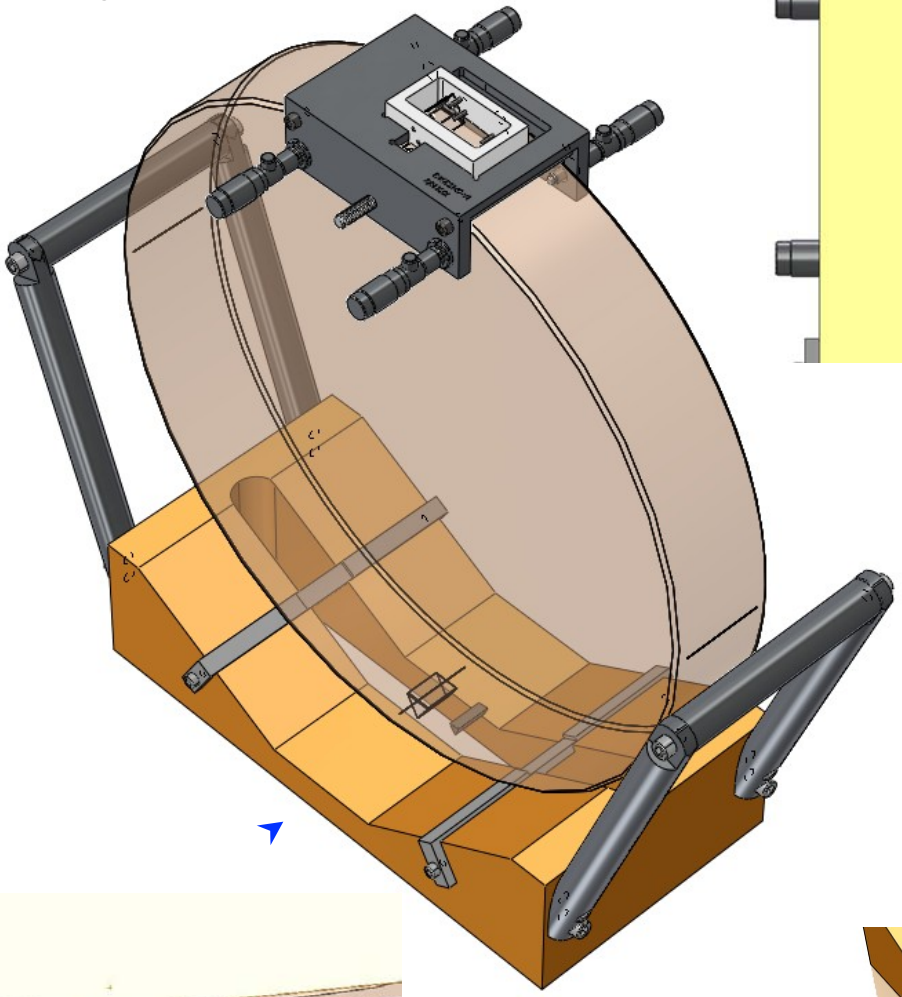
Alignment onto mass, extra clearance to access screws

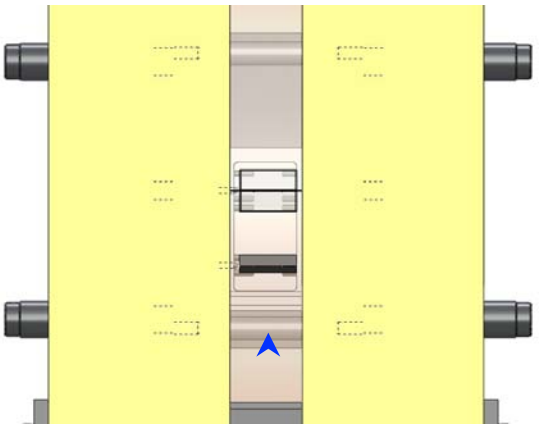


Confirm respective prism position: (1) or (2) or other?

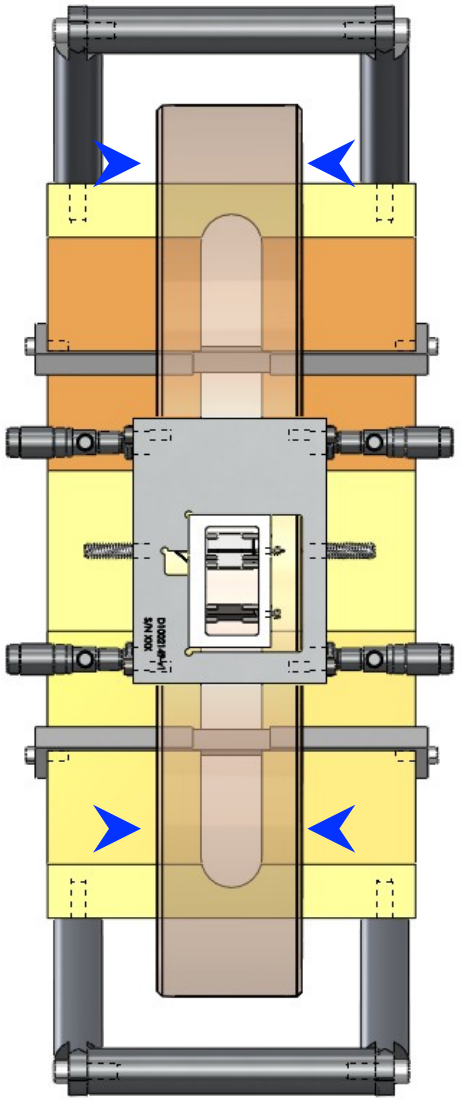


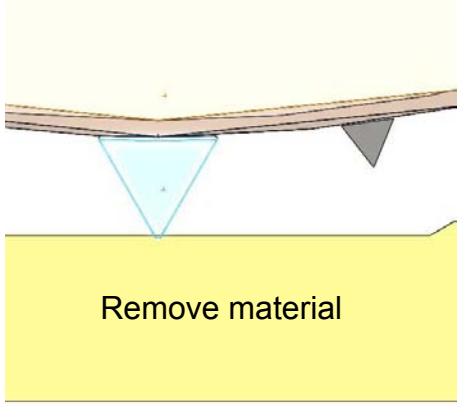
Existing v-block: modifications required

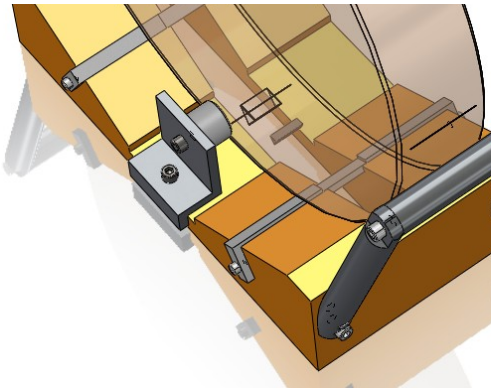




(view from below)
Increase clearance

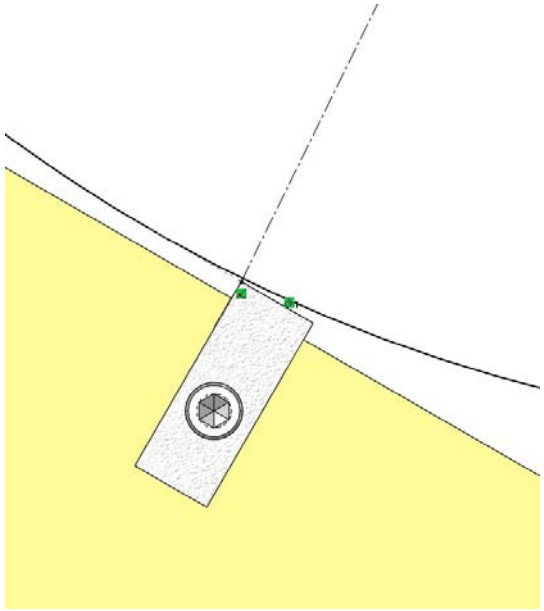


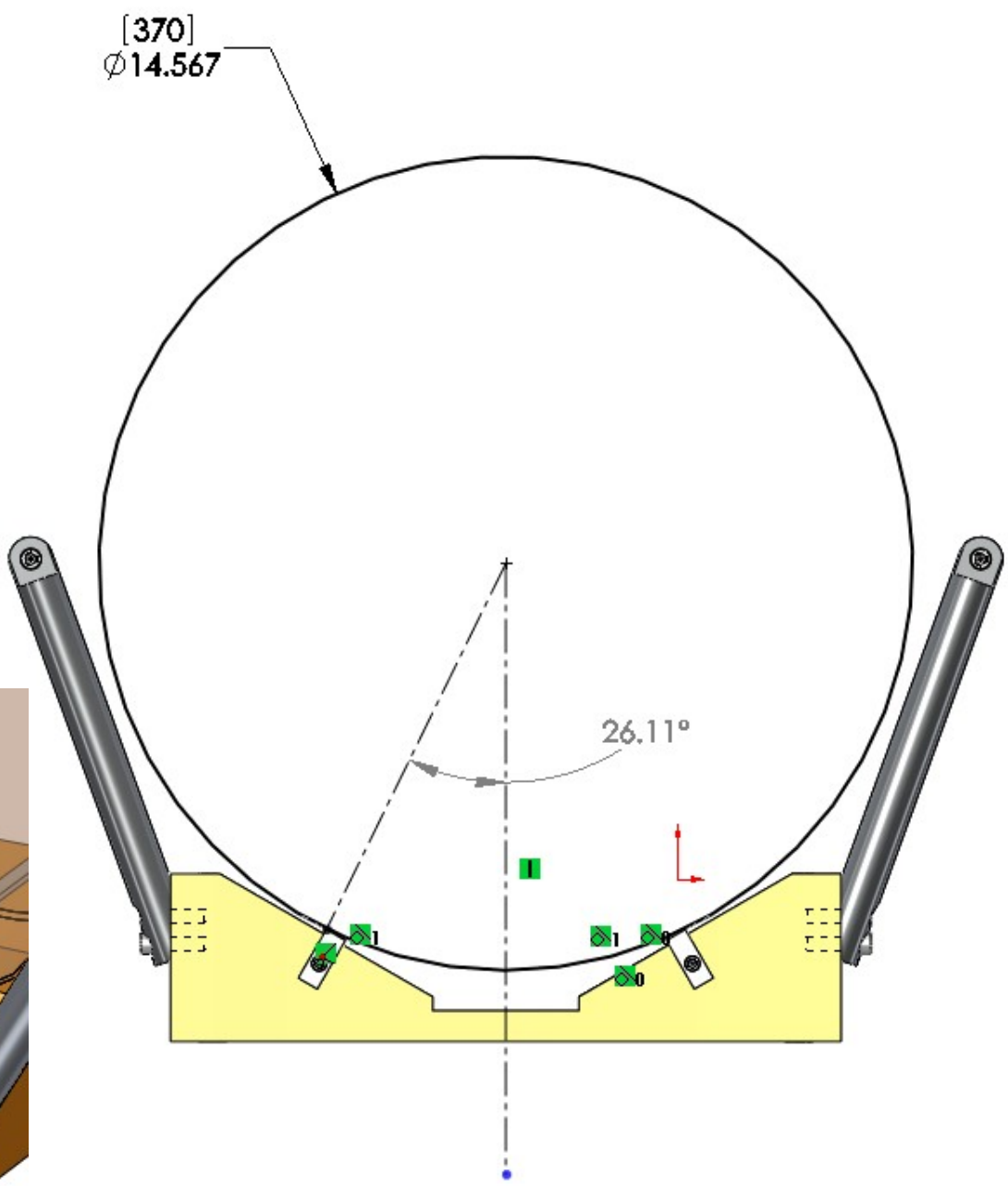


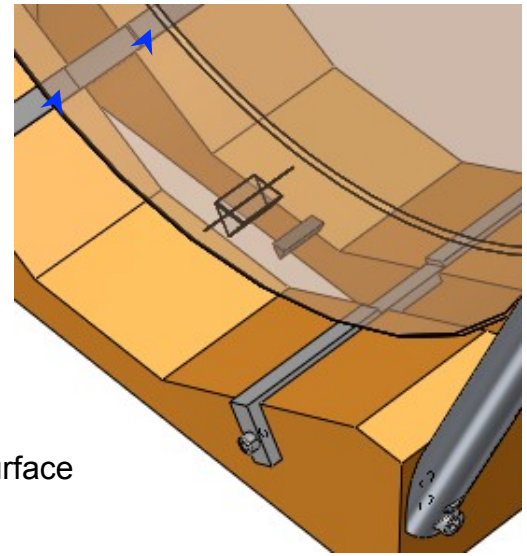


Add supports/barriers

Existing v-block: support surfaces







Increase surface contact