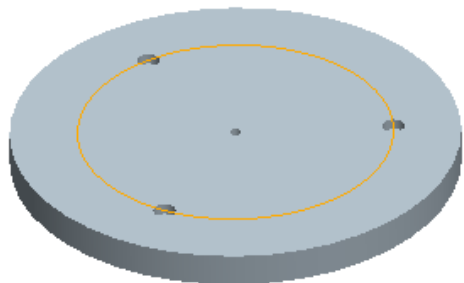


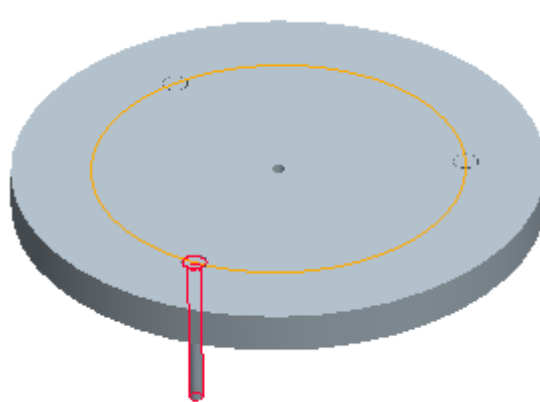
-10" Dobsonian Instructions- Mirror Cell

Step 1



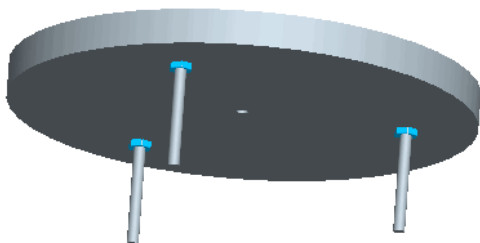
Start with the 10" diameter Upper Mirror Holder (E) This is the part the mirror sits on
on
For 6" mirror it would be 6" ,for 8" mirror it would be 8"

Step 2



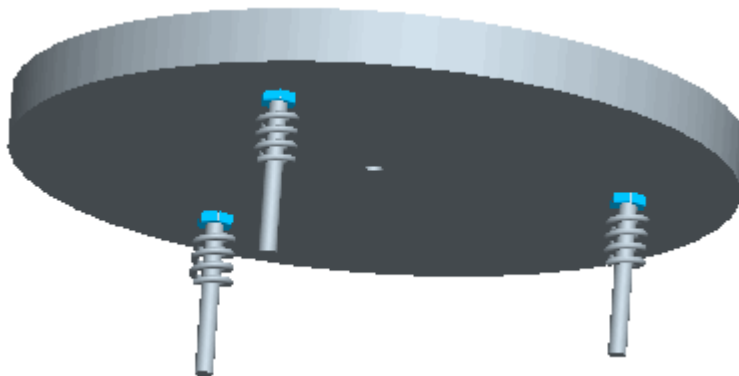
Put the 3 1/4" carriage bolts through

Step 3



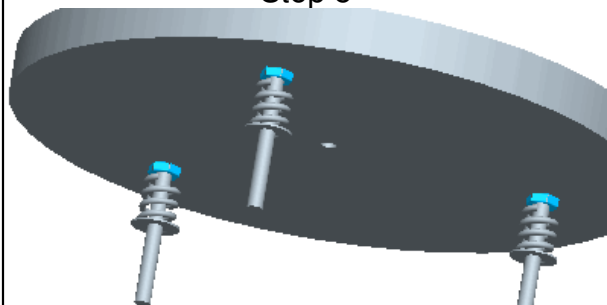
Put 3 1/4" washers and 3 1/4" nuts and tighten them down pulling the heads of the carriage bolts into the counter bores

Step 4



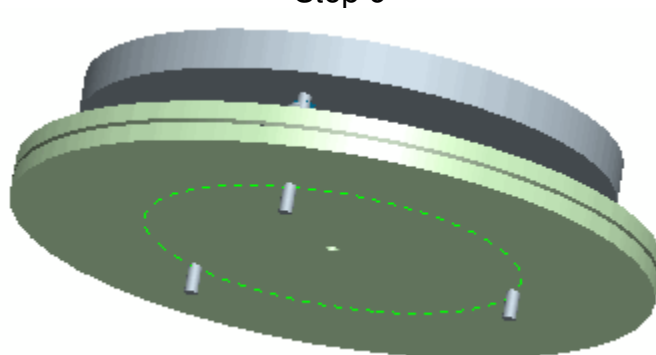
Add the 3 Springs

Step 5



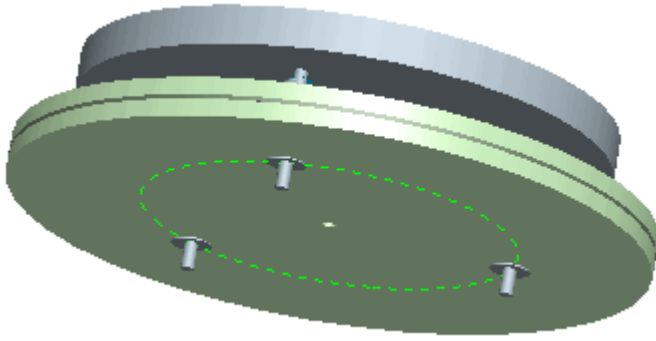
Then add 3 more washers

Step 6



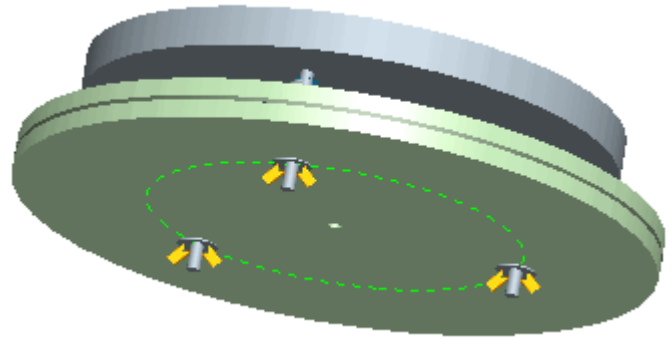
Add the 12" diameter lower mirror holder board (F) Make sure you align the marks when you drilled the holes through both boards.

Step 7



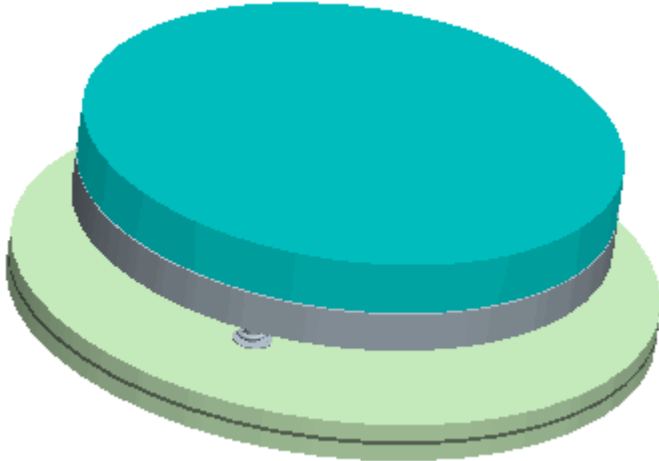
Add 3 more washers

Step 8



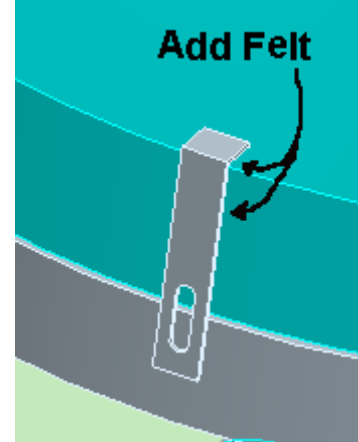
Now add the 3 wing nuts. Tighten each one until you get to the middle of the tension of the spring. These will be used to loosen and tighten to align the optics (collimating)

Step 9



Lay the primary mirror on the top. **Do not do this in the sun and do not touch the top surface**

Step 10



On 3 of the angle brackets, add felt under the top and on the side

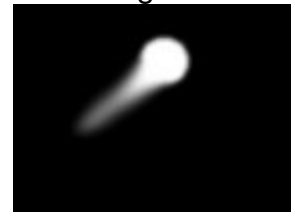
Step 11

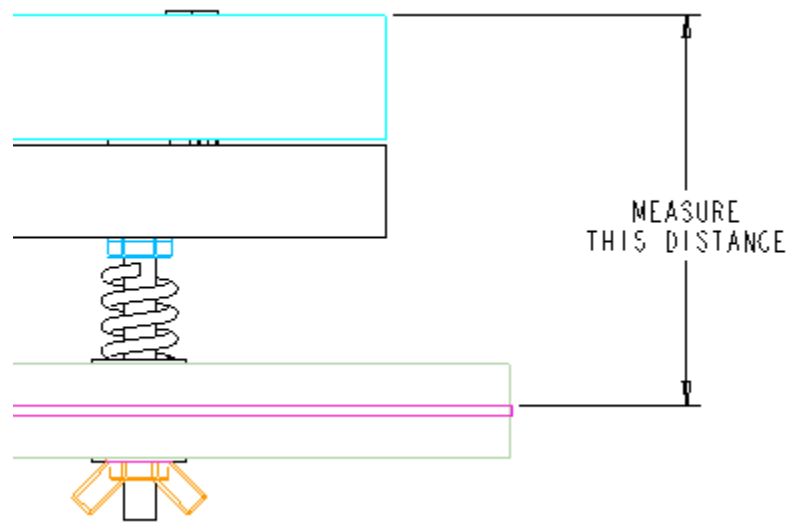


Screw the 3 brackets on but **DO NOT** make it too tight. This will deform the mirror. Do this in 3 places (120° apart)

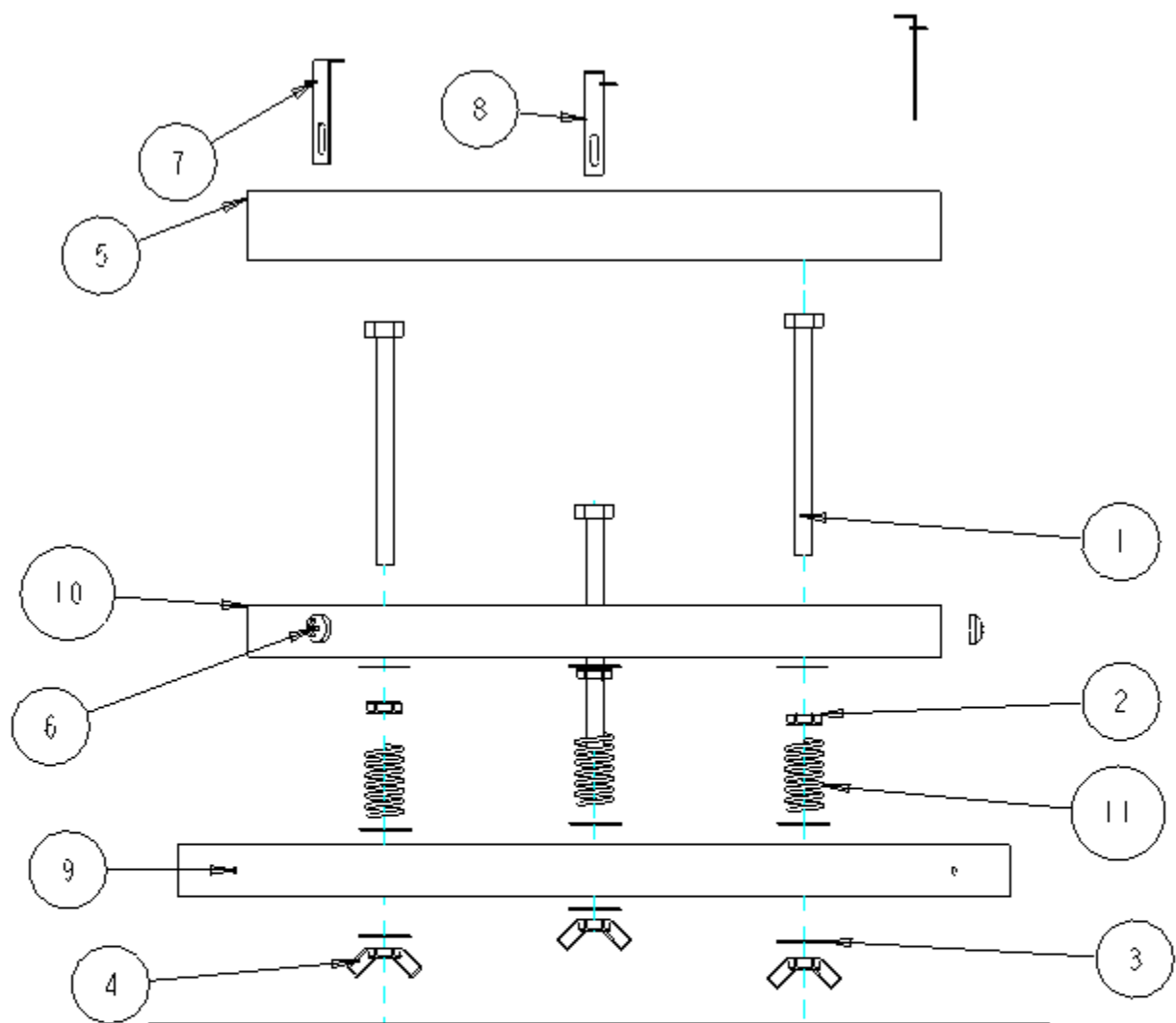
Note:

When you are finished, and you see a "flare" or "comet tail" coming off a star, it is because the mirror was screwed down too tight in Step 11. Make the brackets just snug enough to keep the mirror from sliding off the mirror cell.





Measure carefully from the top of the mirror to the black line in the middle of the bottom plywood
This distance is called the **CELL HEIGHT**. It will be used on a measurement on the TUBE.



INDEX	DESCRIPTION	QUANTITY
1	1-4_IN_CARRIAGE_BOLT	3
2	1-4_IN_NUT	3
3	1-4_IN_WASHER	9
4	1-4_IN_WINGNUT	3
5	10_IN_MIRROR	1
6	BRACKET_SCREW	3
7	FELTPAD_250	3
8	MIRROR_BRACKET	3
9	MIRROR_BRACKET_LOWER	1
10	MIRROR_BRACKET_UPPER	1
11	SPRING	3