



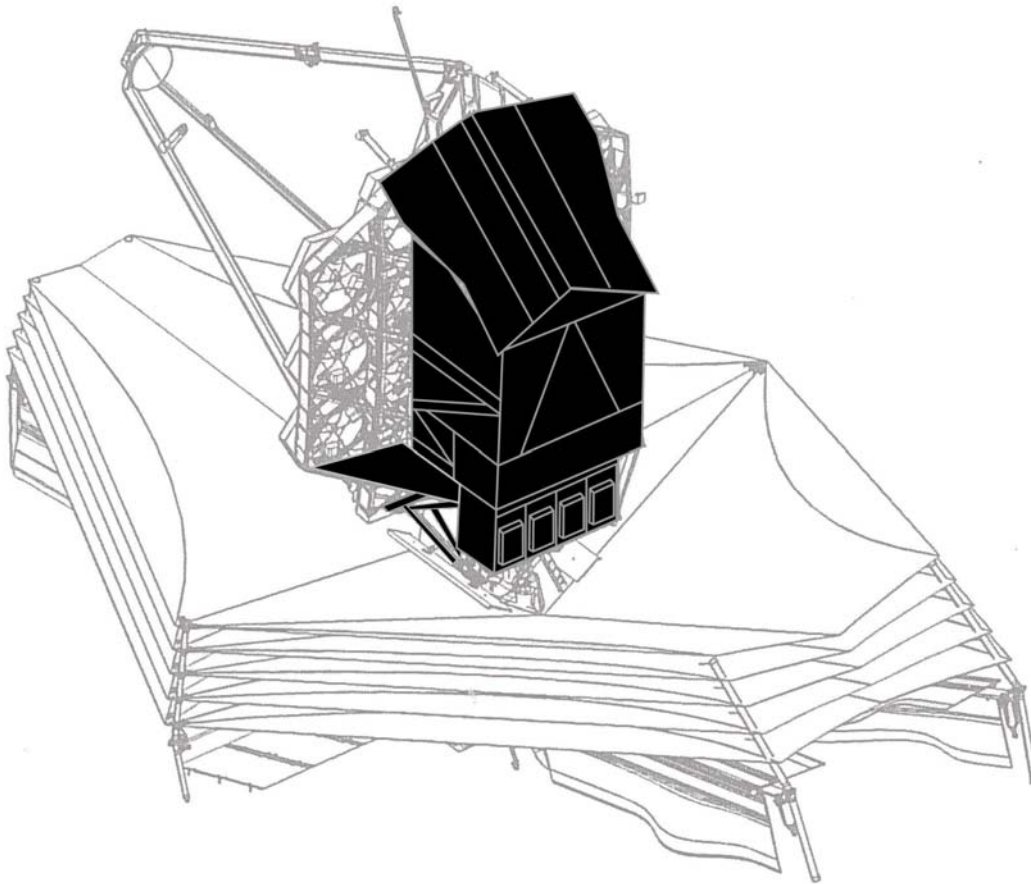
National Aeronautics and Space Administration  
Goddard Space Flight Center  
Greenbelt, Maryland 20771



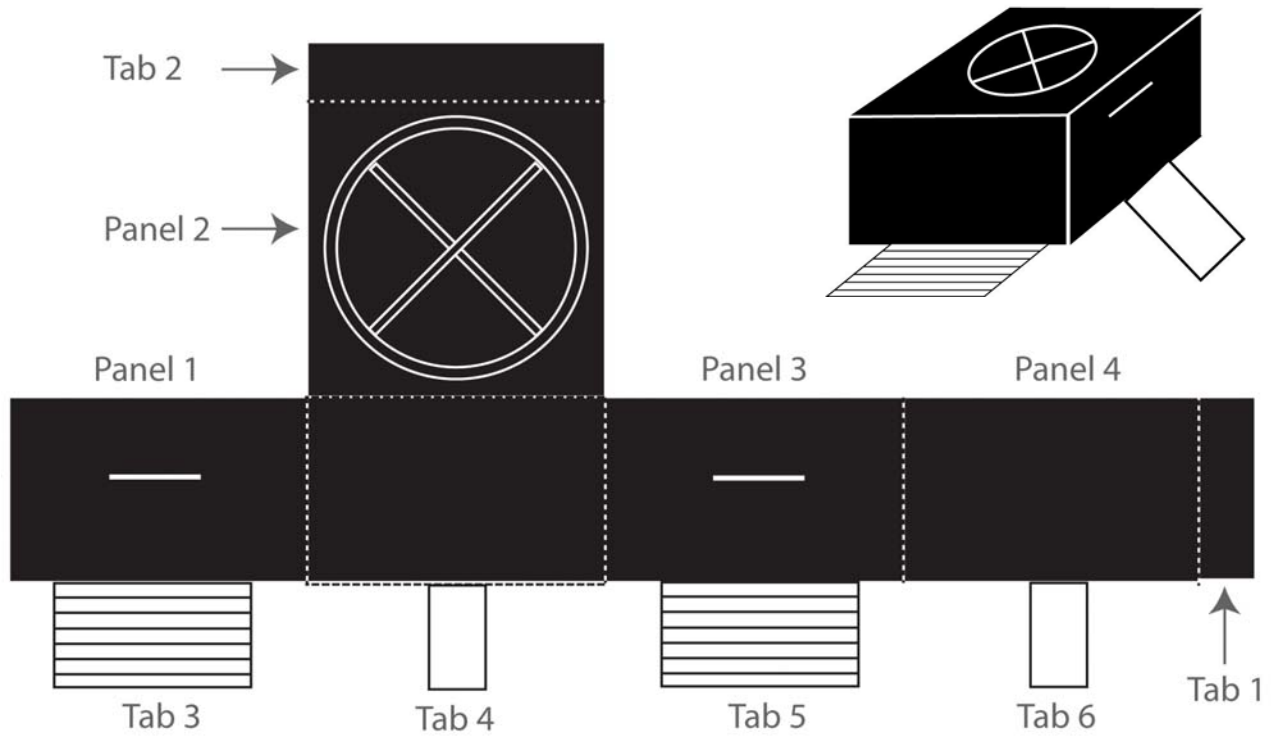
# James Webb Space Telescope

## Observatory Model

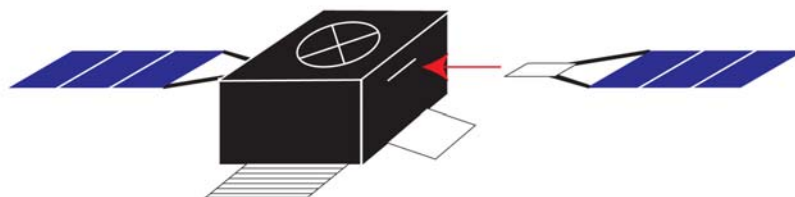
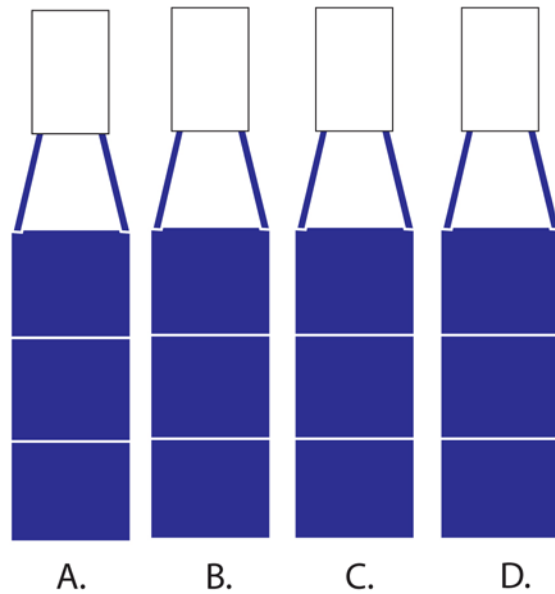
### Building Printouts of Assembly Parts



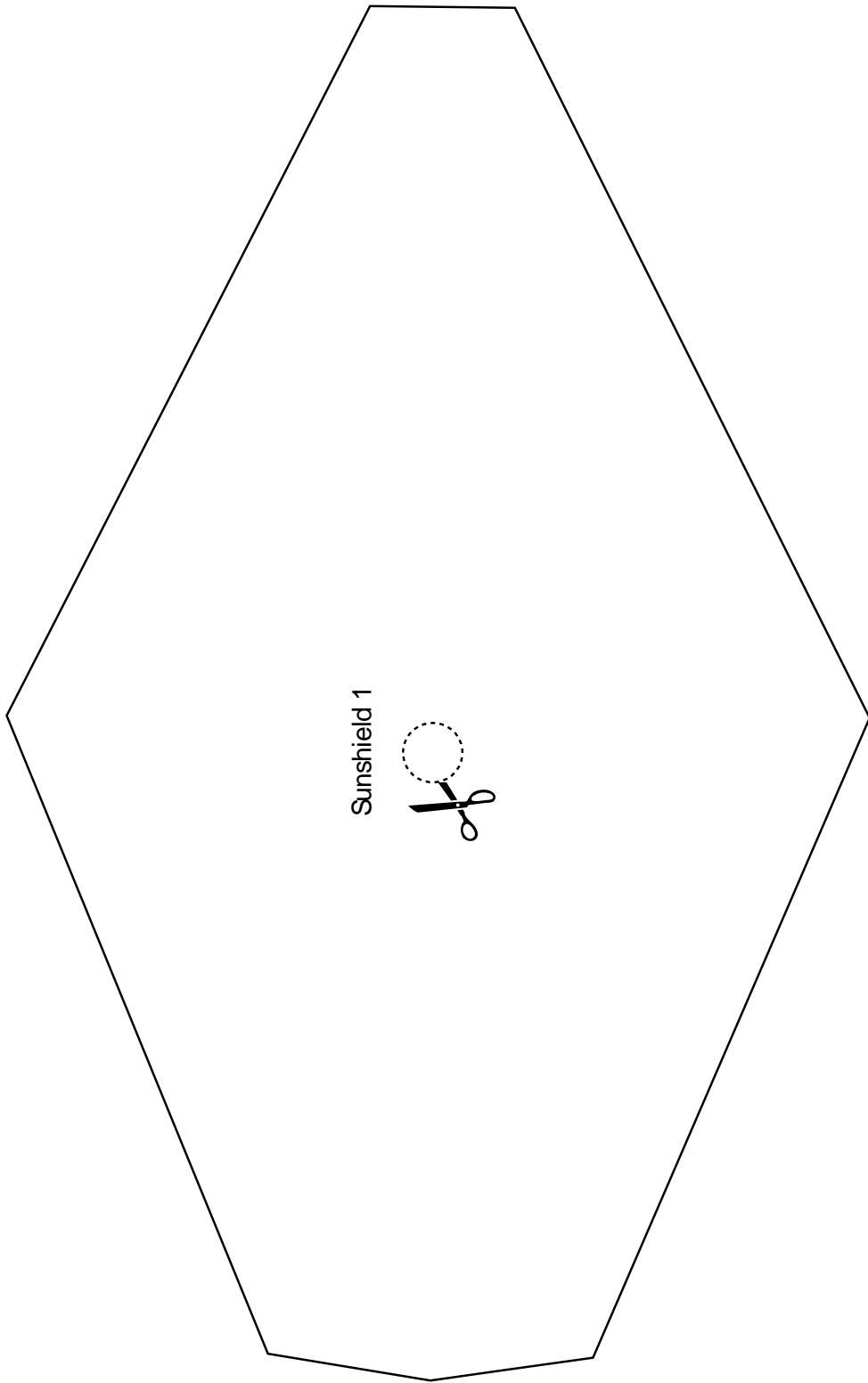
## STEP 1: SPACECRAFT BUS ASSEMBLY

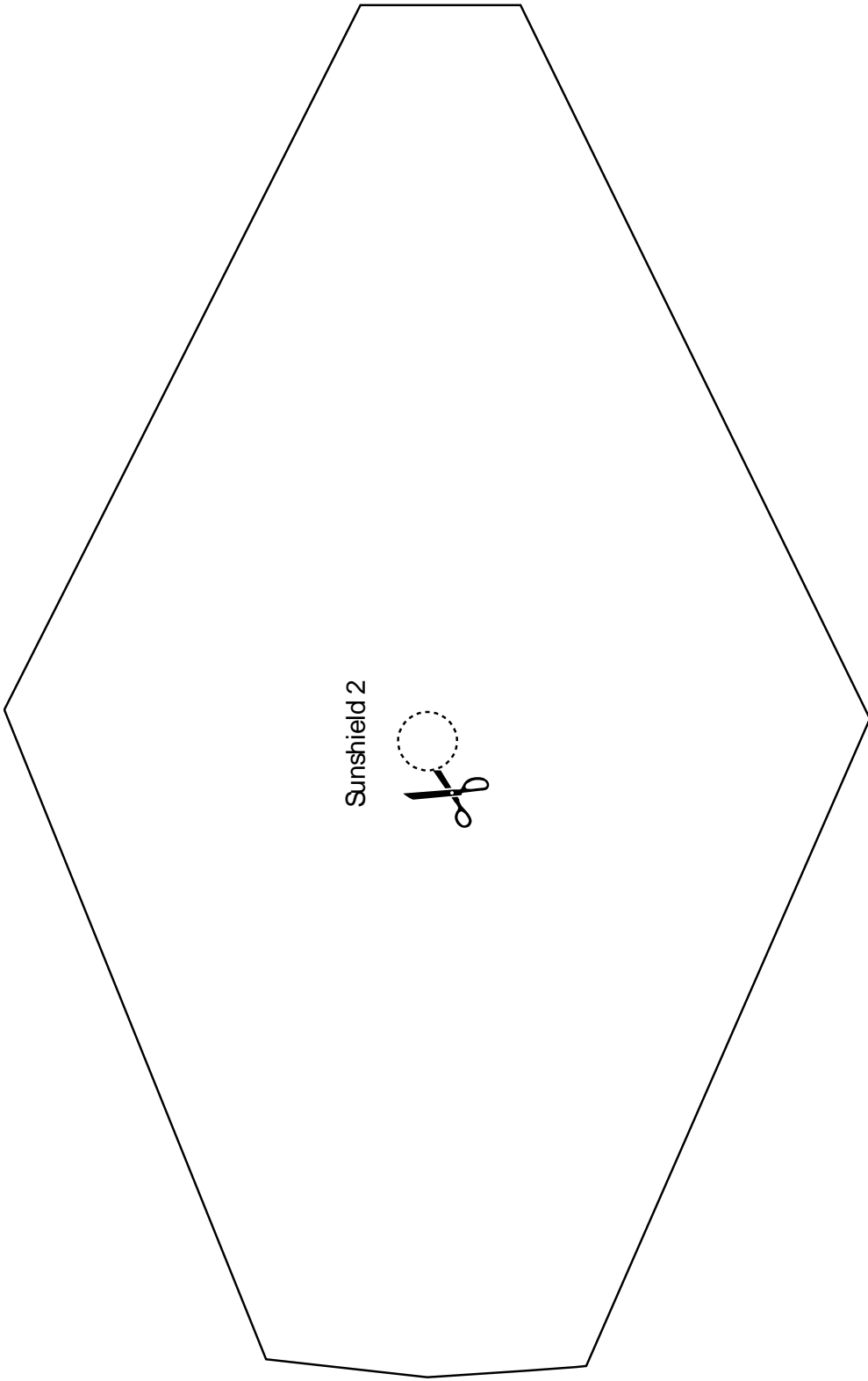


## STEP 2: ATTACHING SOLAR ARRAYS



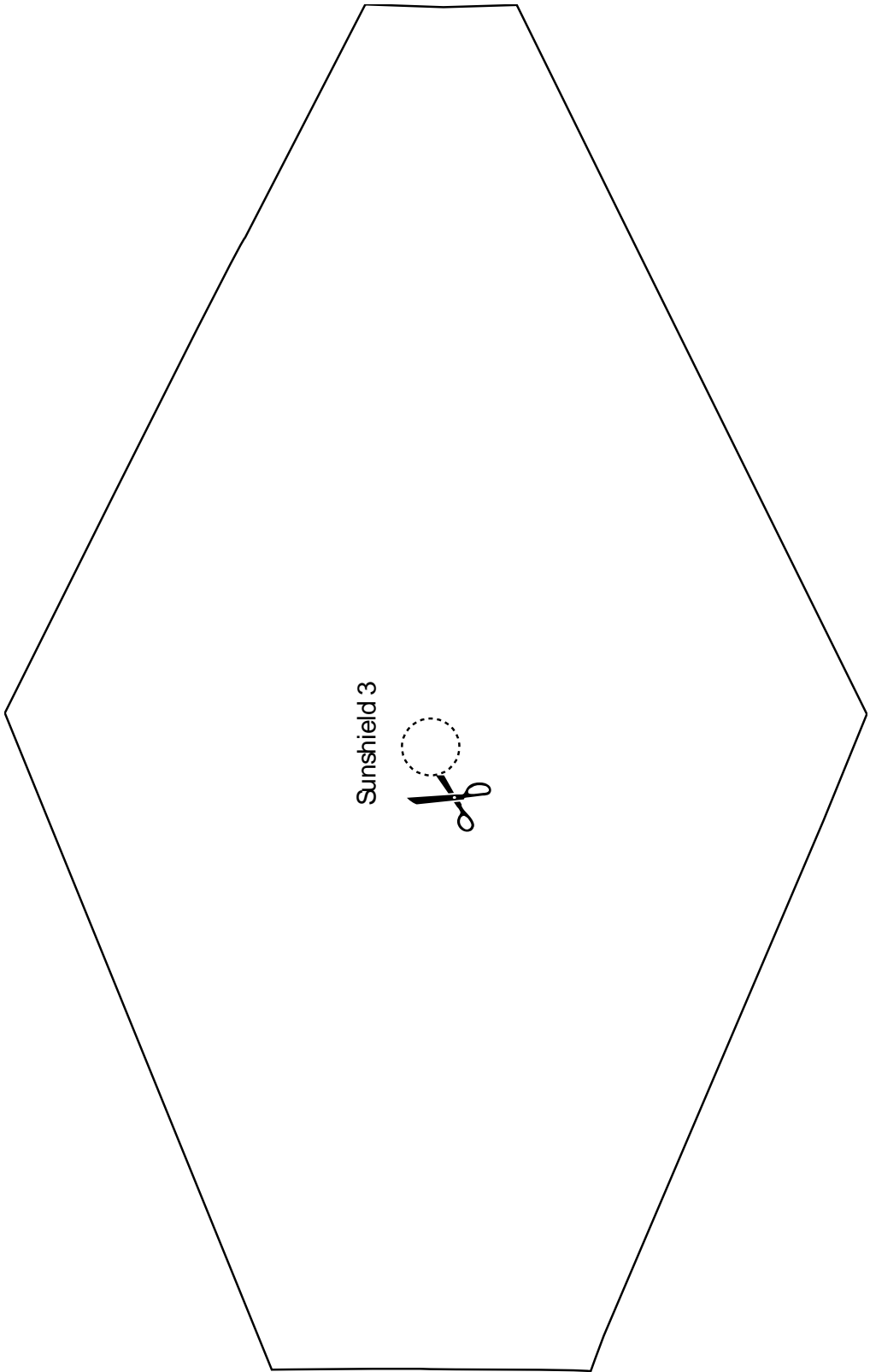
### STEP 3: SUNSHIELDS

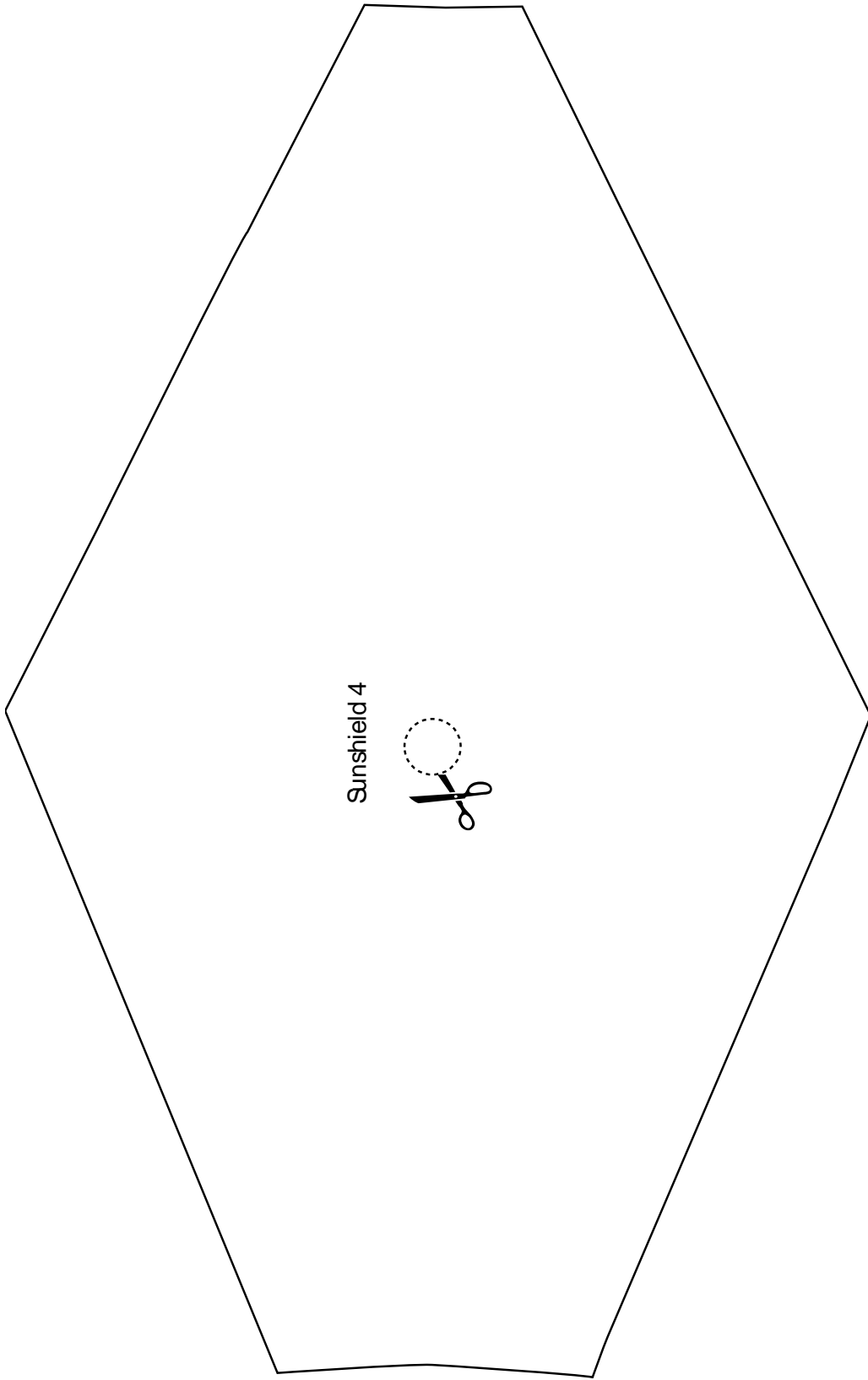


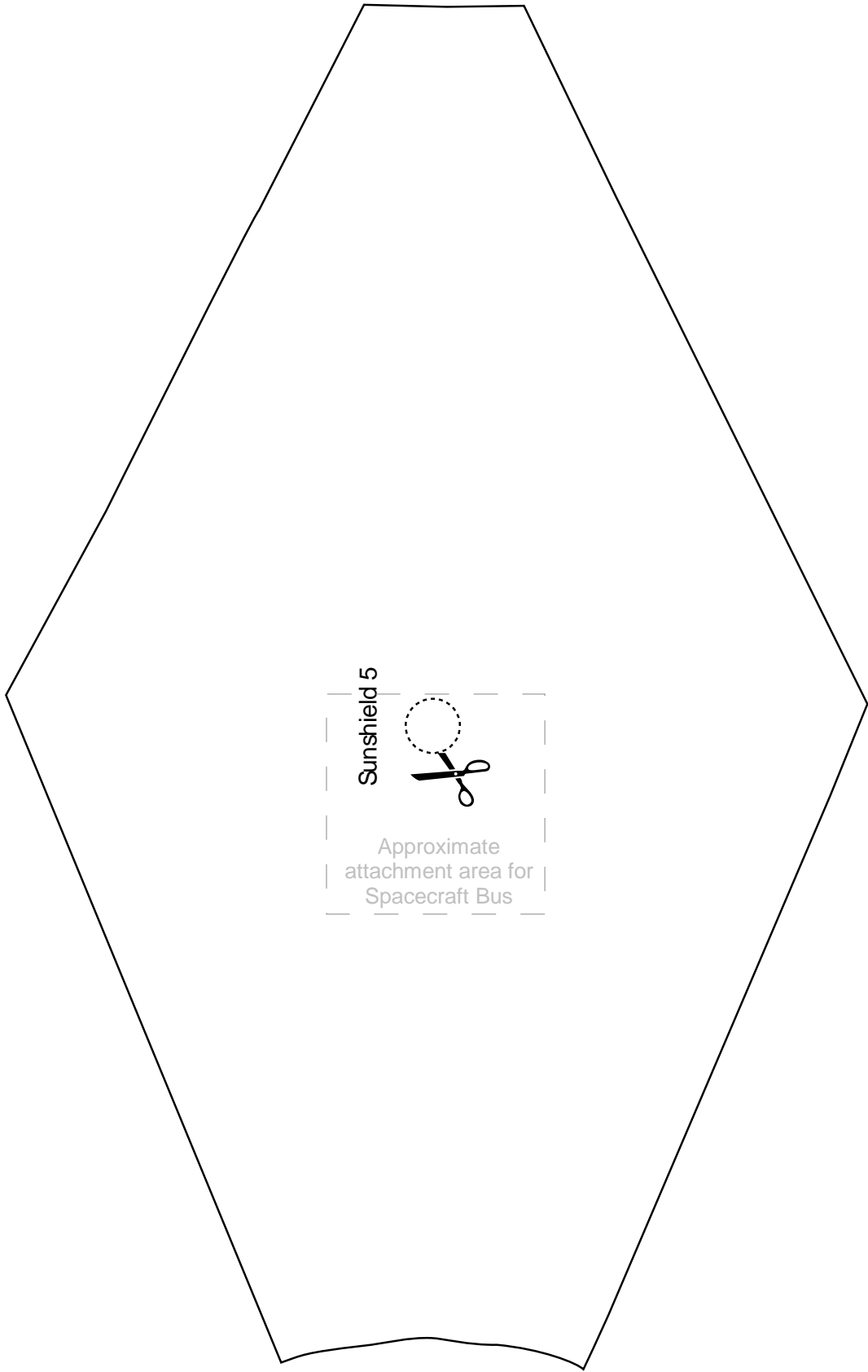


Sunshield 2







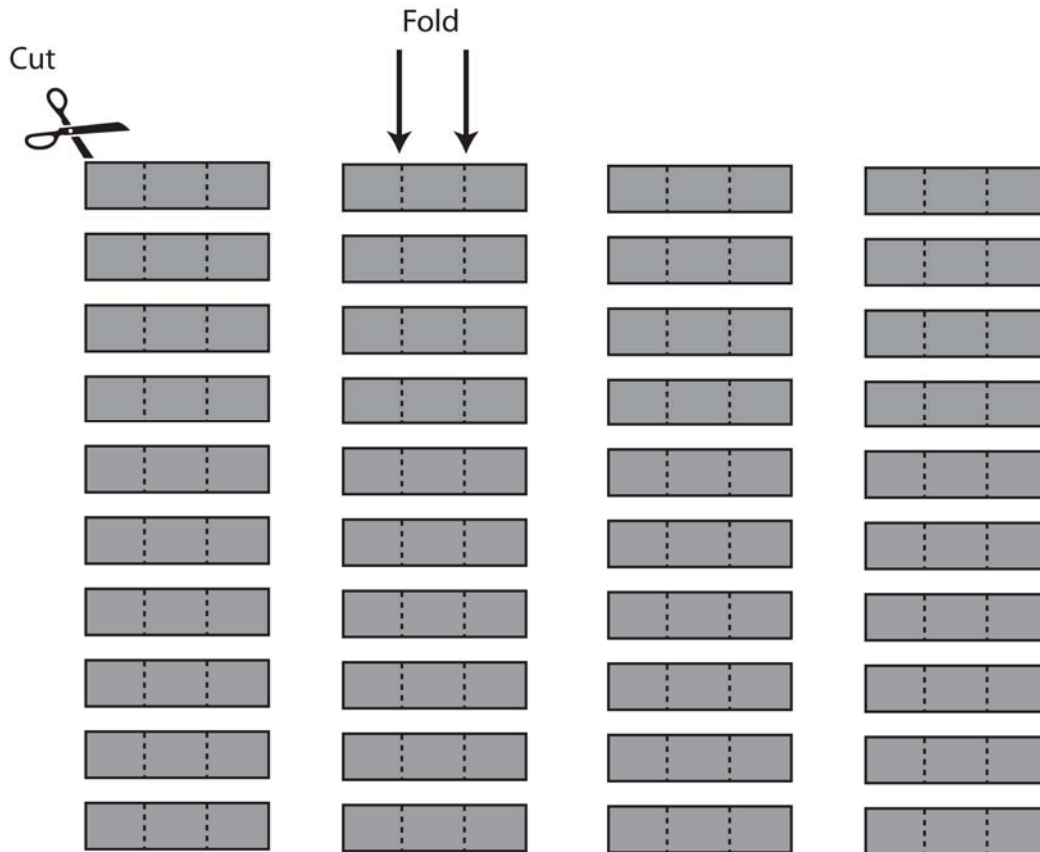


Sunshield 5



Approximate attachment area for Spacecraft Bus

### STEP 3: SUNSHIELD TABS



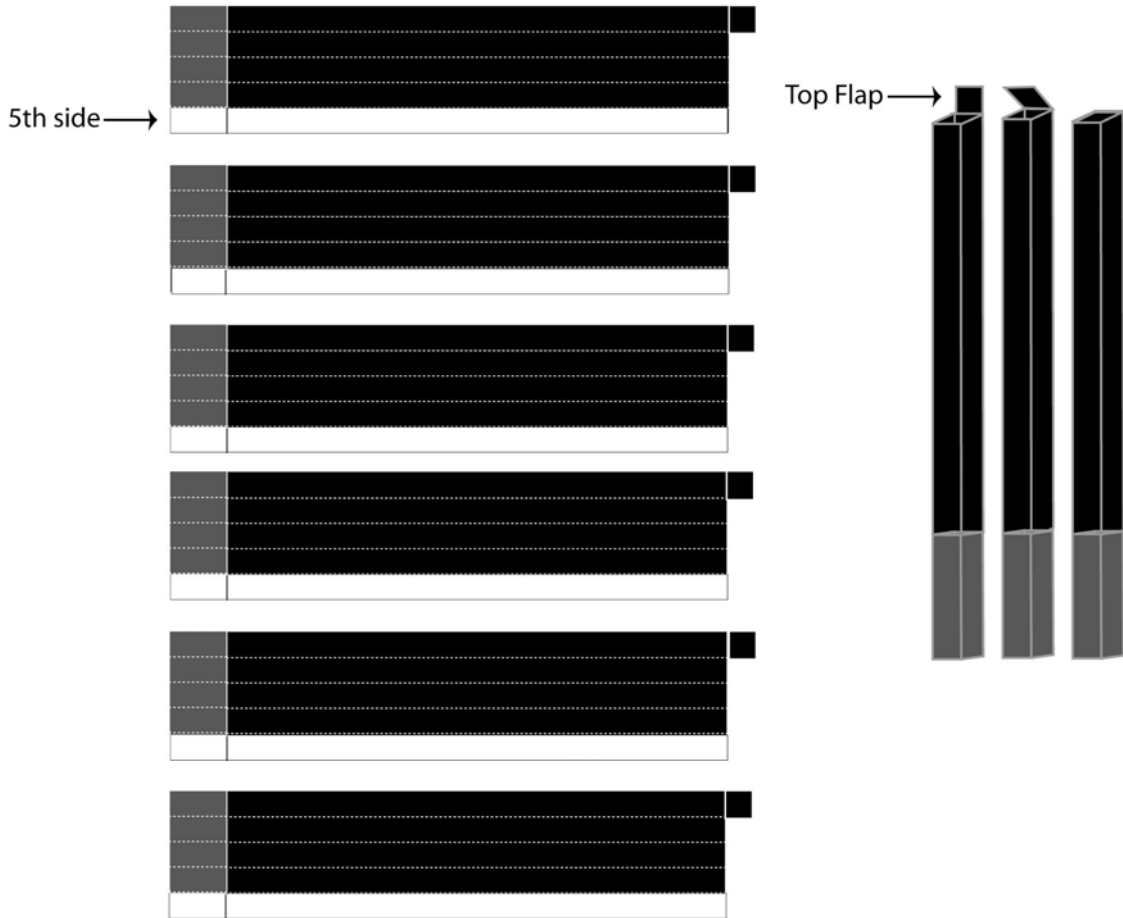
1. Cut out on solid lines
2. Fold inward on dashed lines so grey shaded side faces outward as shown in Diagram 1

Diagram 1

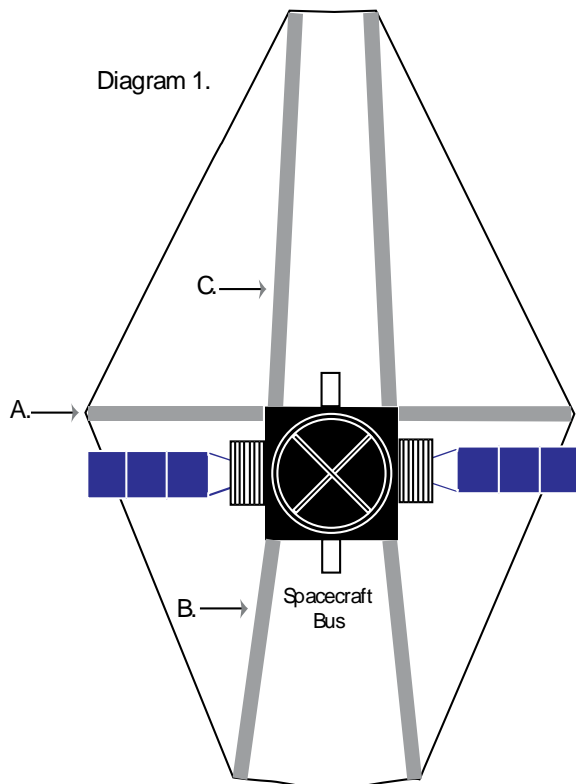
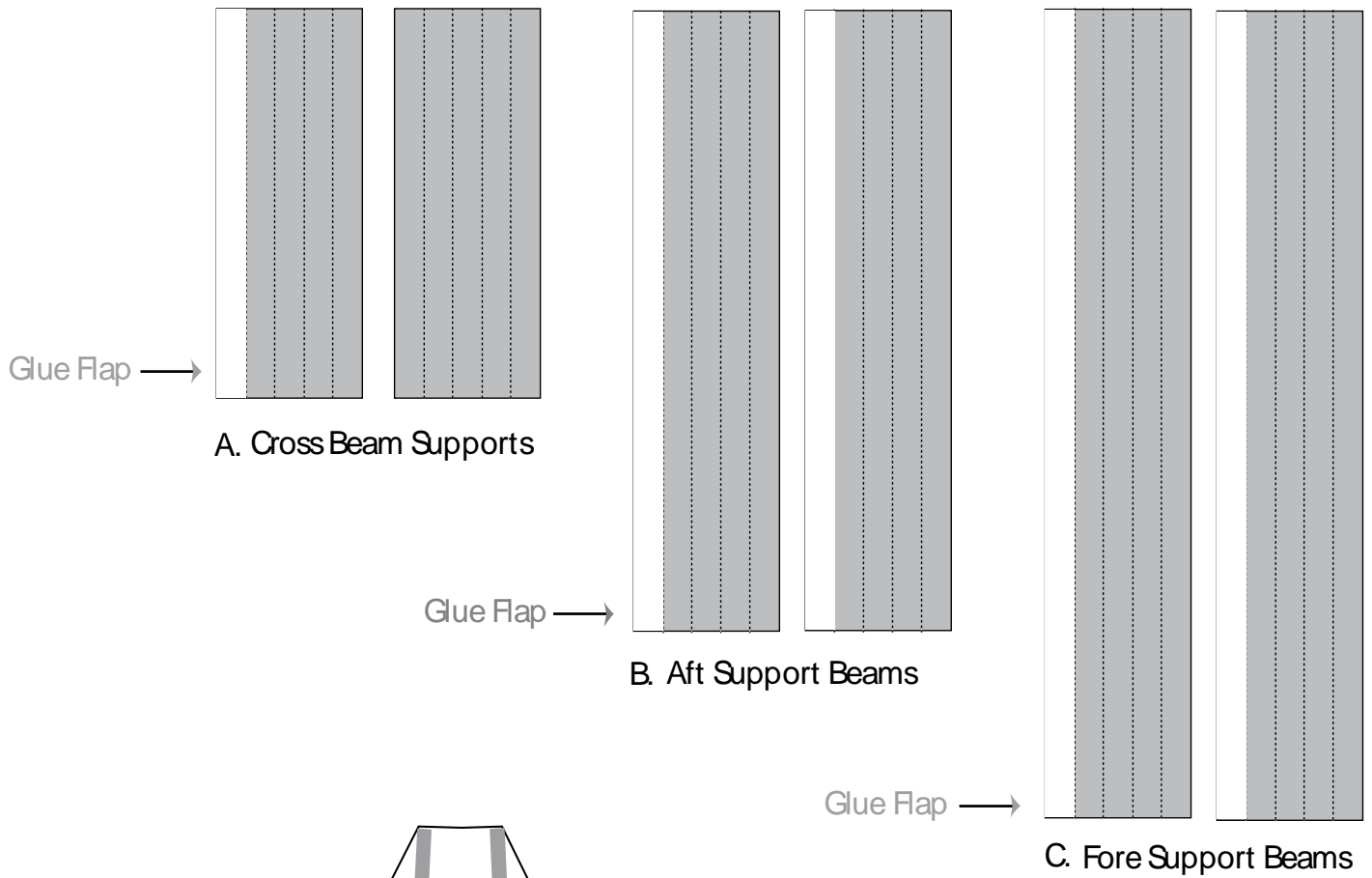




### STEP 3: SUNSHIELD SPREADER BARS



## STEP 4: BOTTOM SUNSHIELD SUPPORT BEAMS



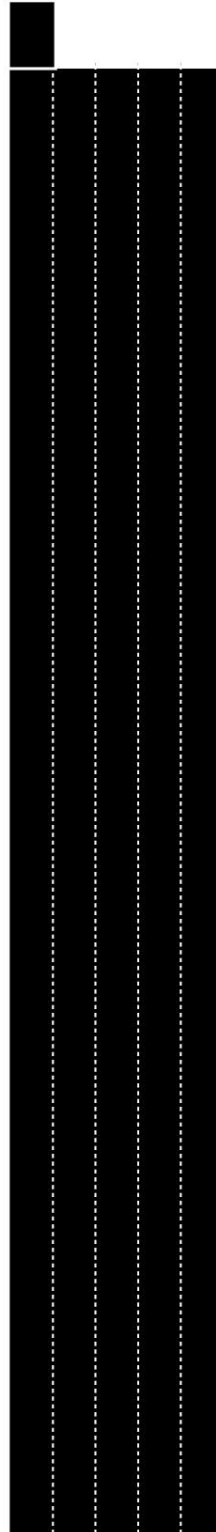
Please Note:  
Some trimming of beams may be necessary for an exact fit after installing on Sunshield 5

**STEP 5: CENTER SUPPORT BOOM**

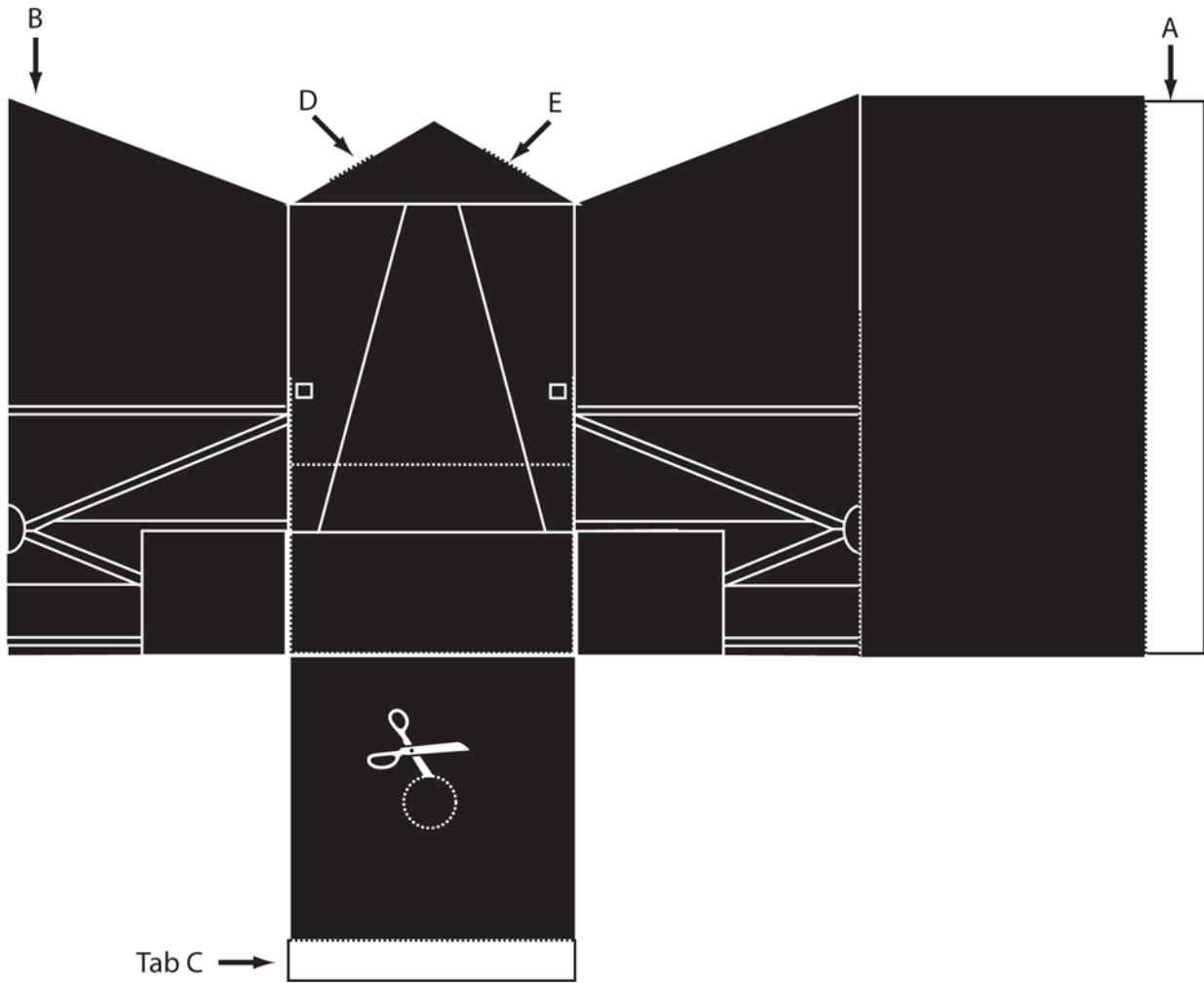
**UNSHARPENED NEW PENCIL**



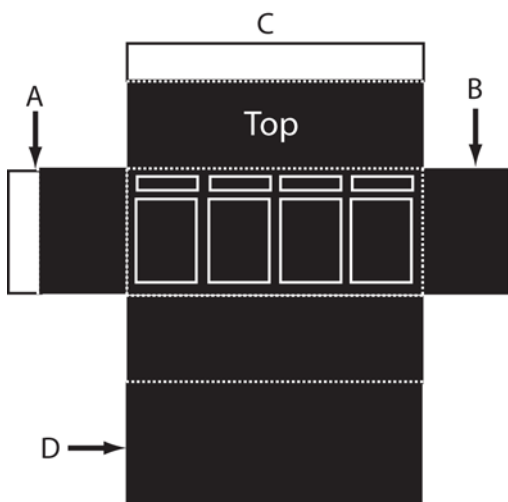
**CARDSTOCK CENTER BOOM**



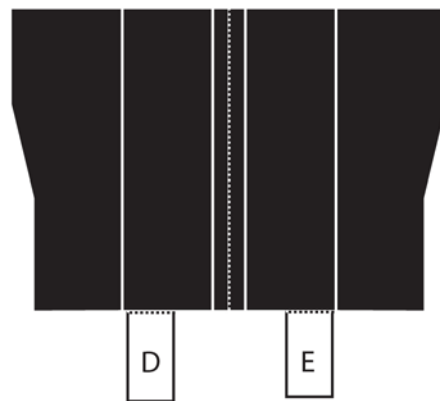
## STEP 6: INTEGRATED SCIENCE INSTRUMENT MODULE (ISIM)



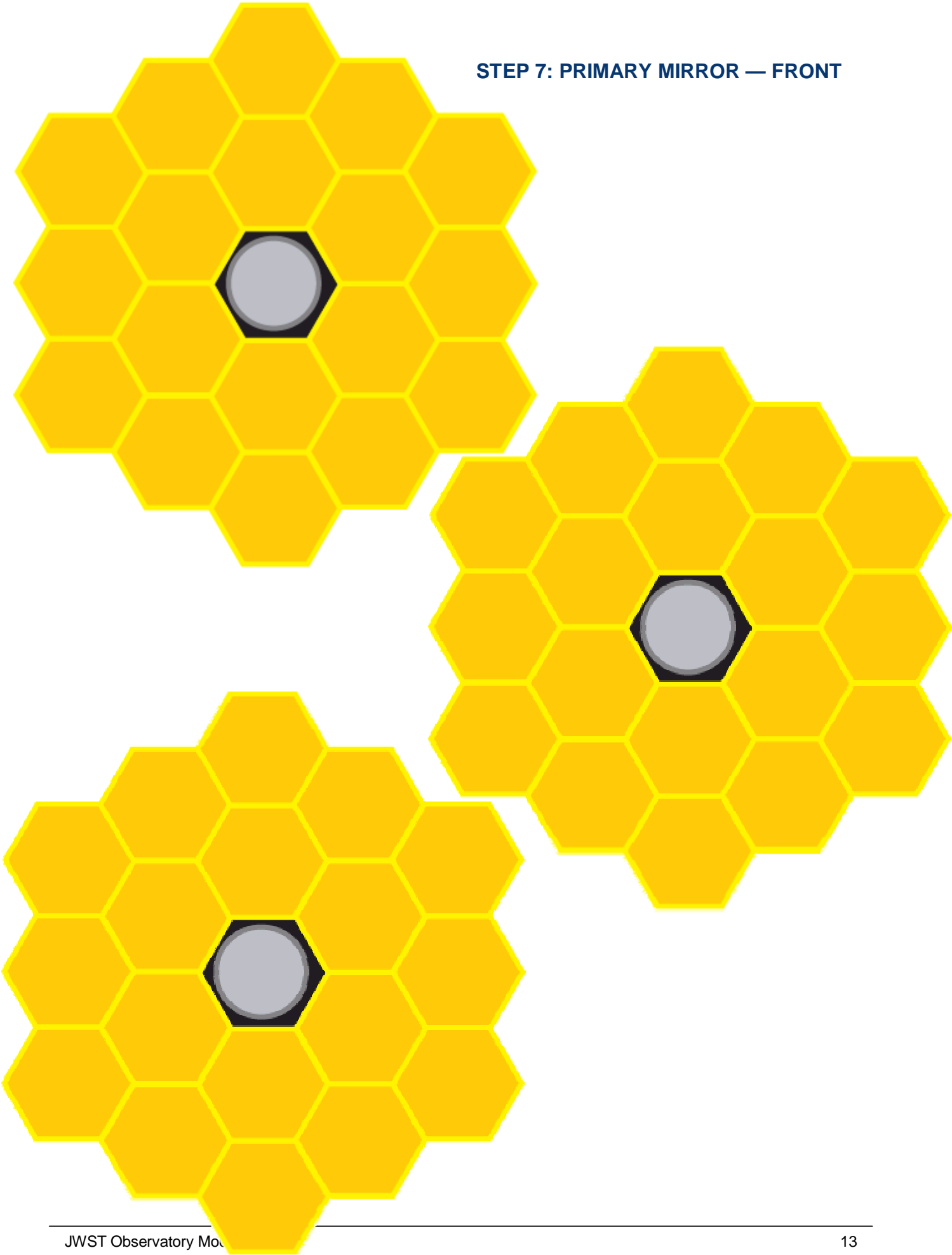
ISIM Electronics Compartment (IEC)



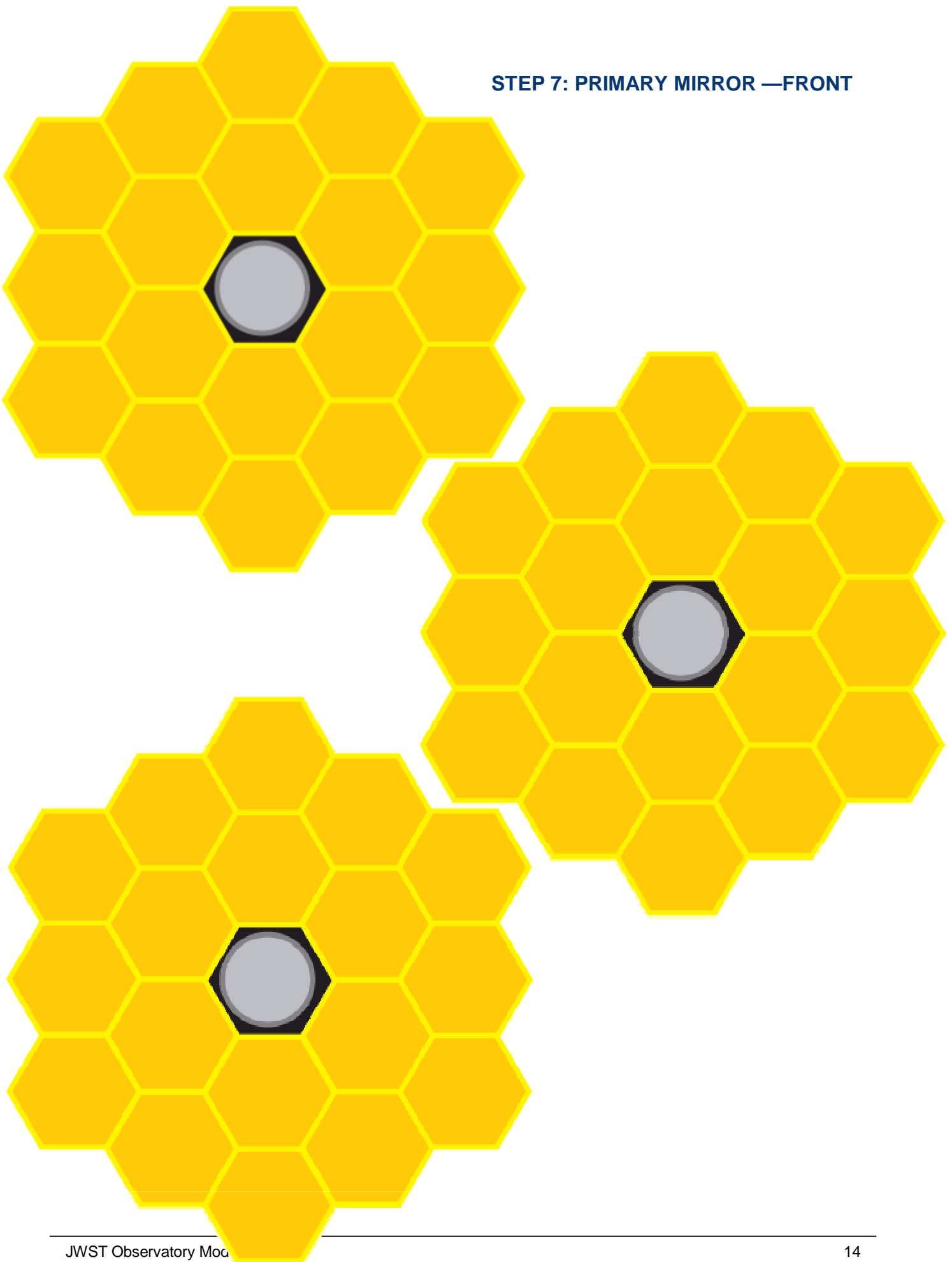
Instrument Shield



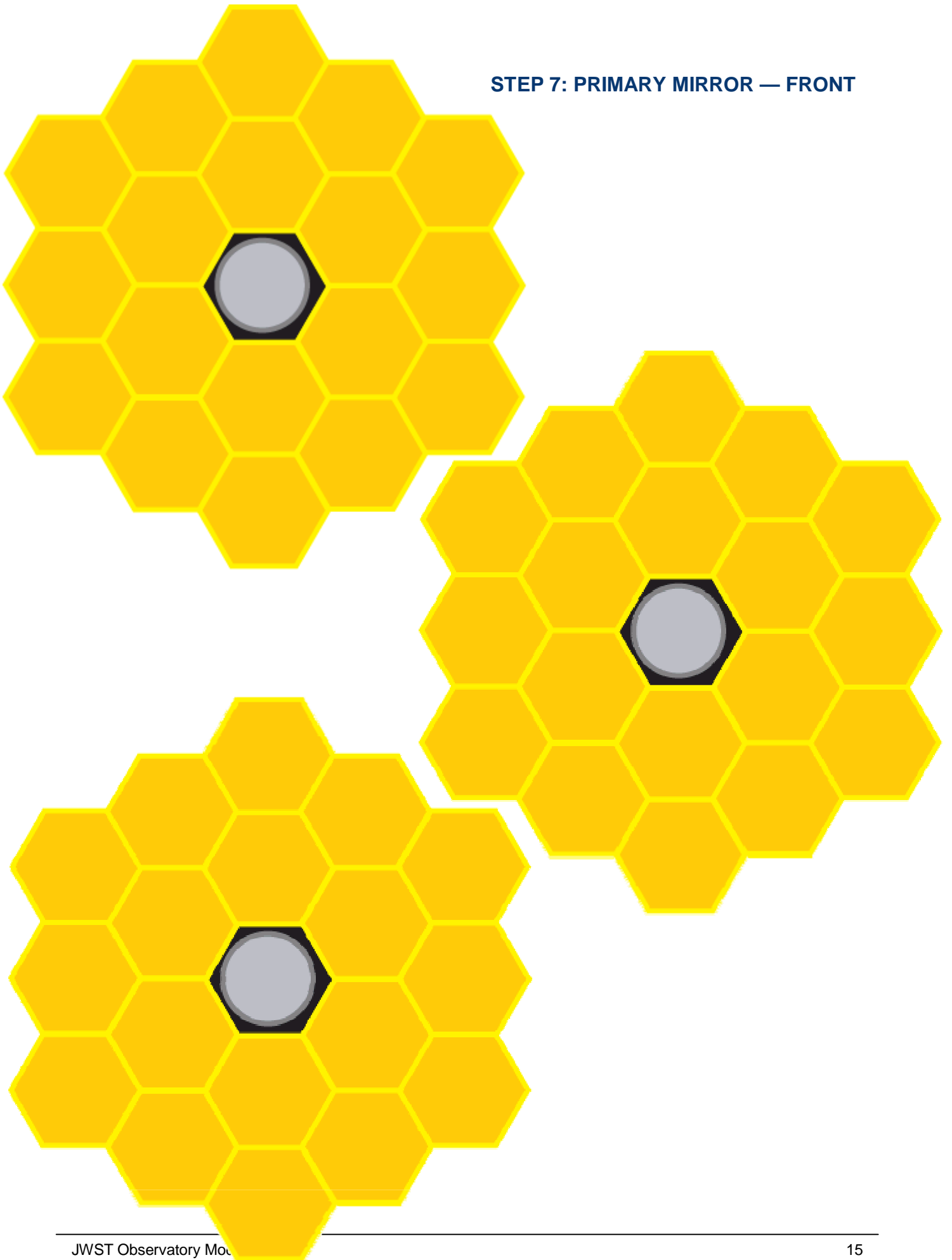
**STEP 7: PRIMARY MIRROR — FRONT**



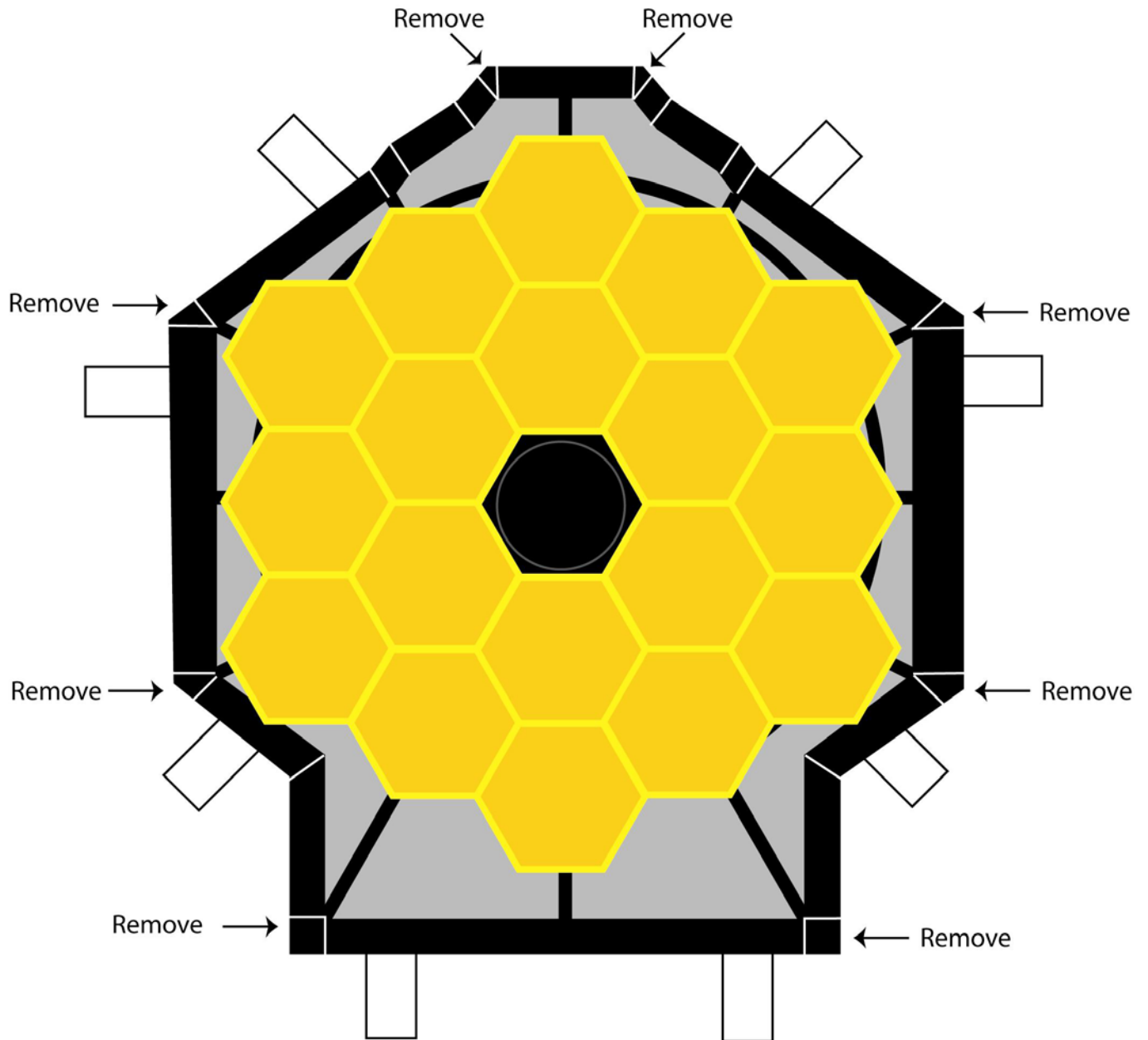
**STEP 7: PRIMARY MIRROR —FRONT**



**STEP 7: PRIMARY MIRROR — FRONT**

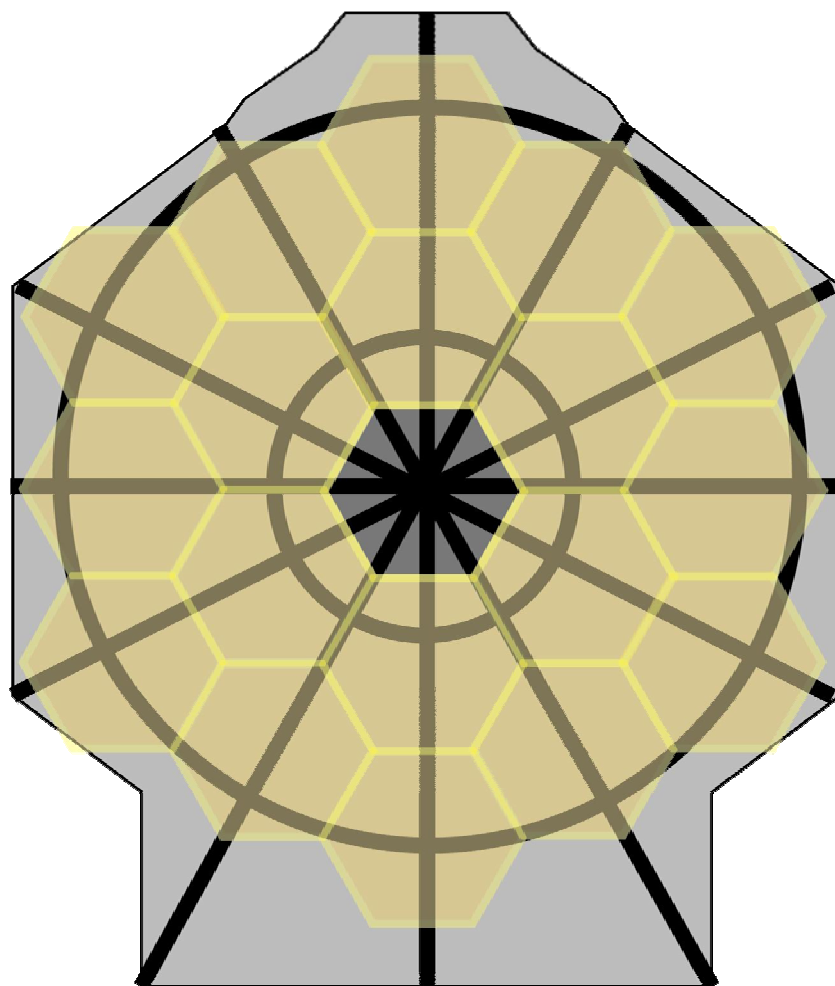


## STEP 7: PRIMARY MIRROR — FRONT BACKPLANE STRUCTURE

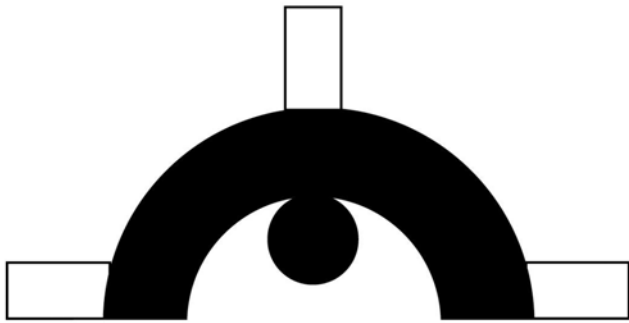




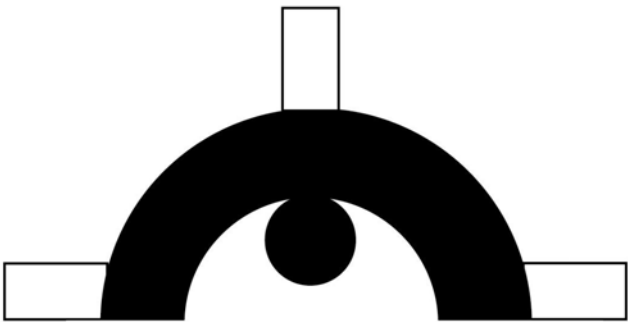
**STEP 7: PRIMARY MIRROR — BACK OF BACKPLANE STRUCTURE**



**STEP 7: SECONDARY MIRROR WITH SUPPORT SYSTEM BOOMS**

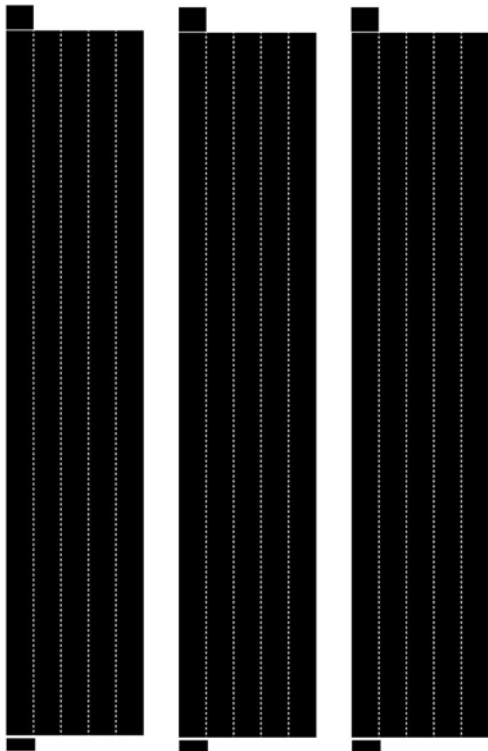


Aft Optics System



**STEP 9**

Secondary Mirror Assembly



Secondary Mirror Support System Booms