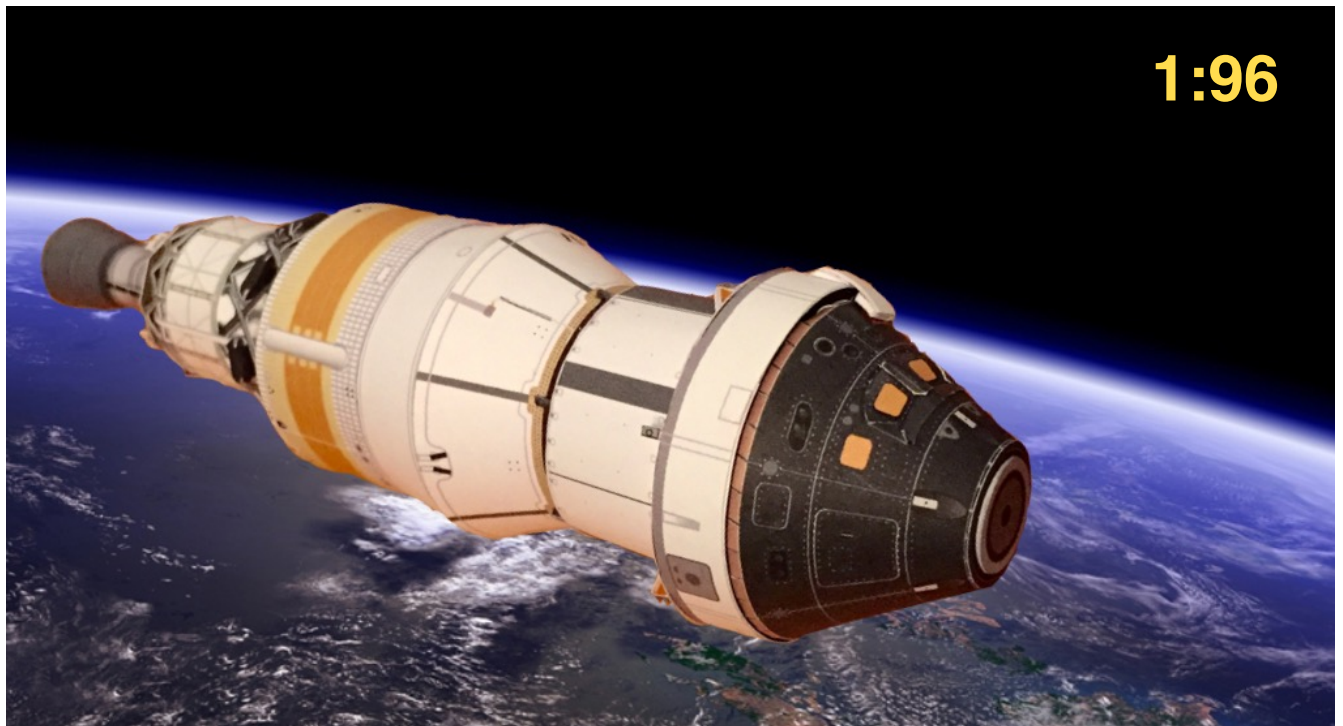




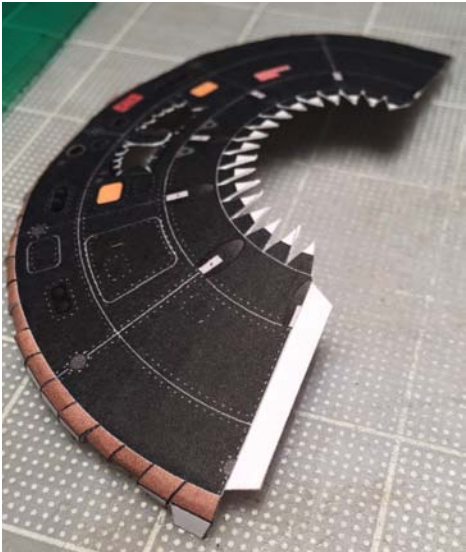
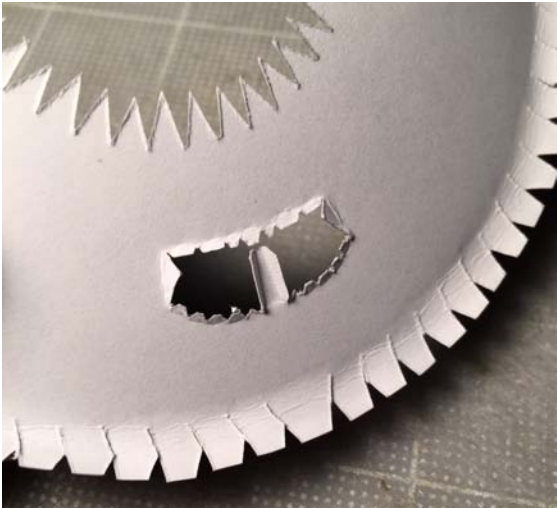
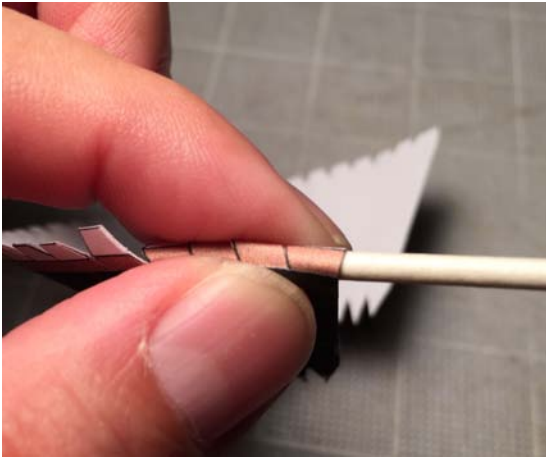
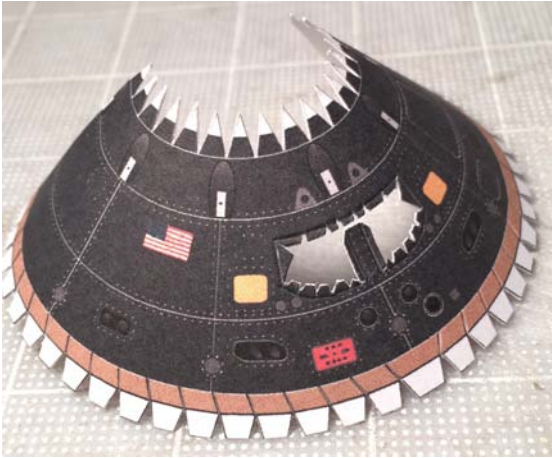
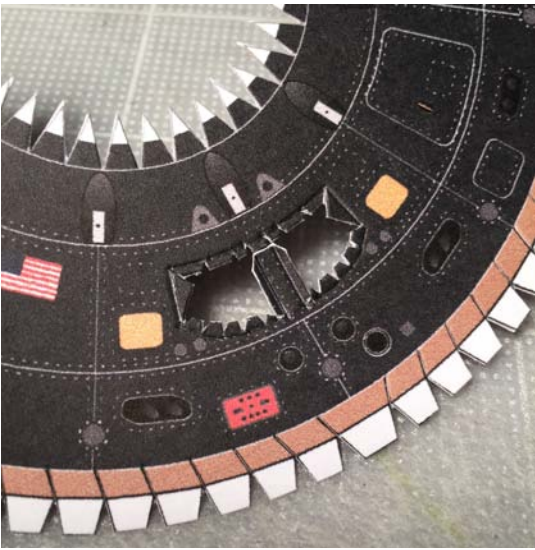
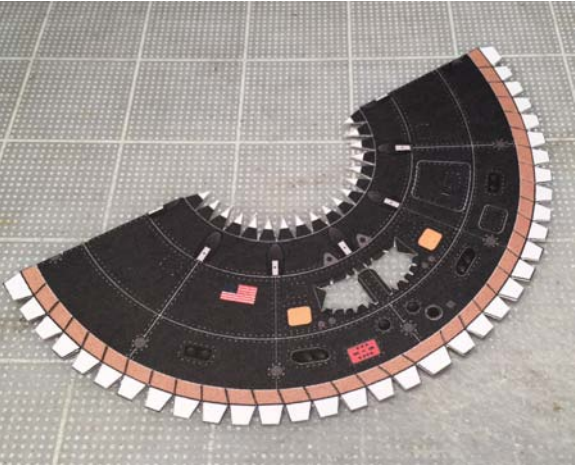
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# ORION EFT-1

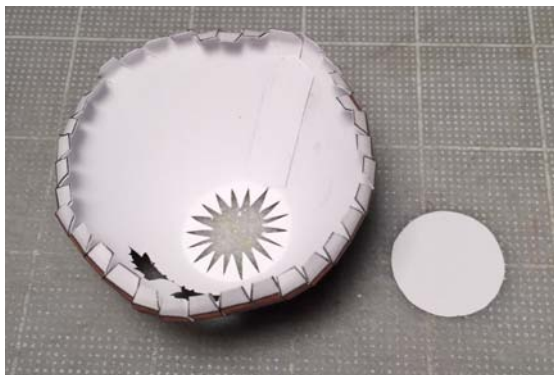
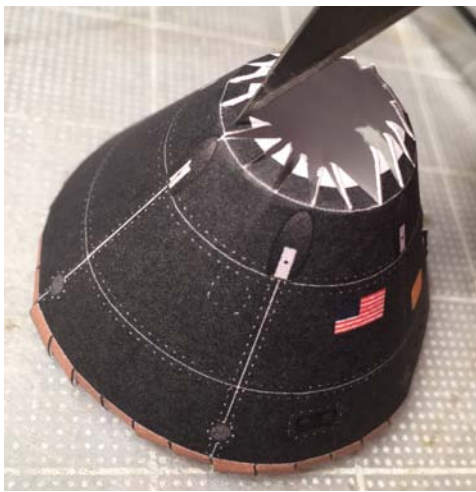
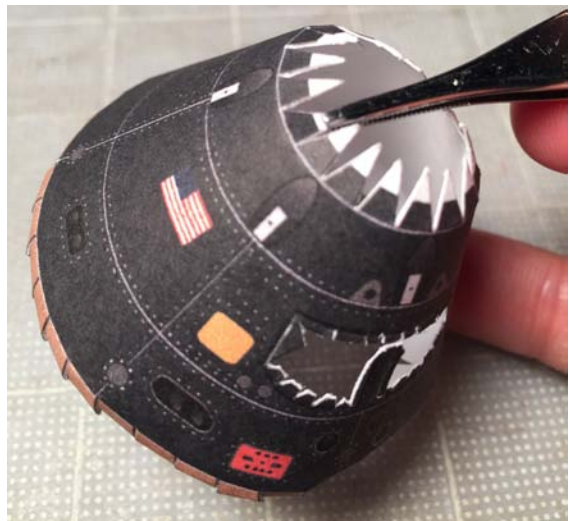
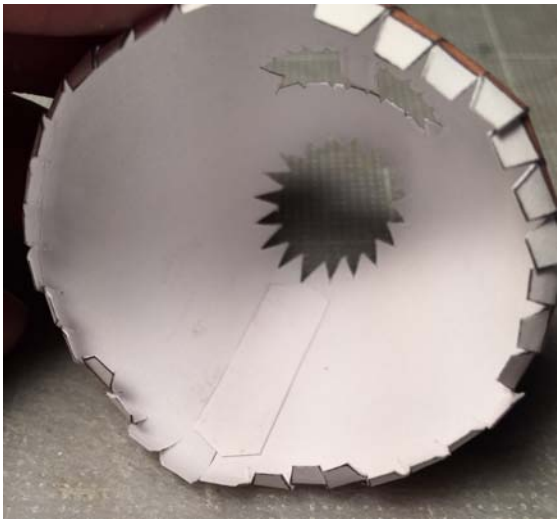
## Assembly Instructions

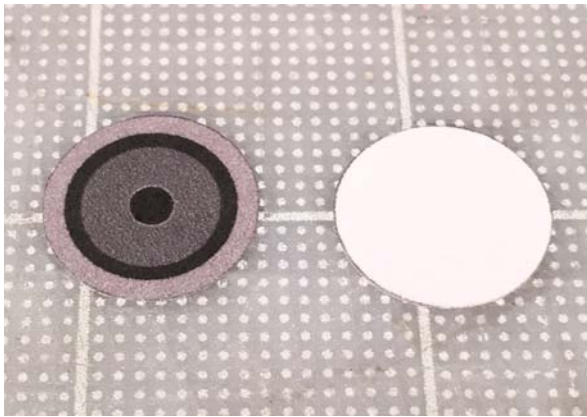


Orion capsule assembly

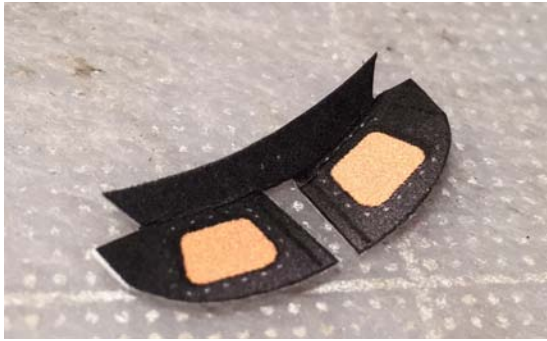


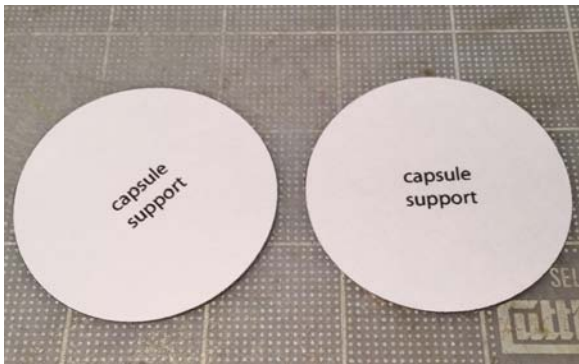




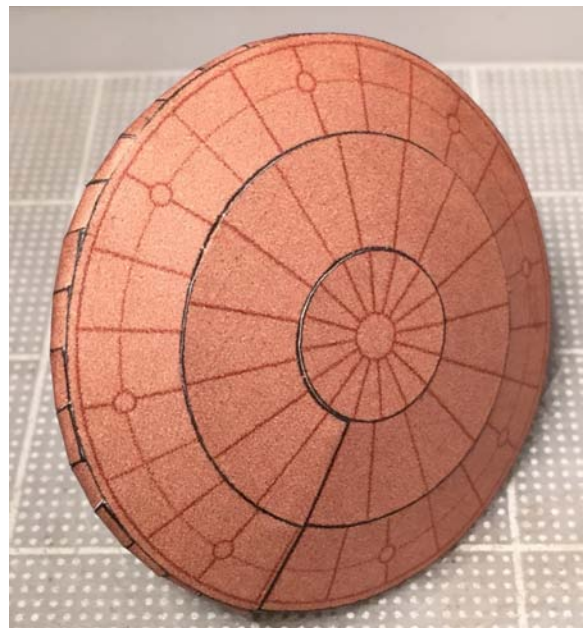
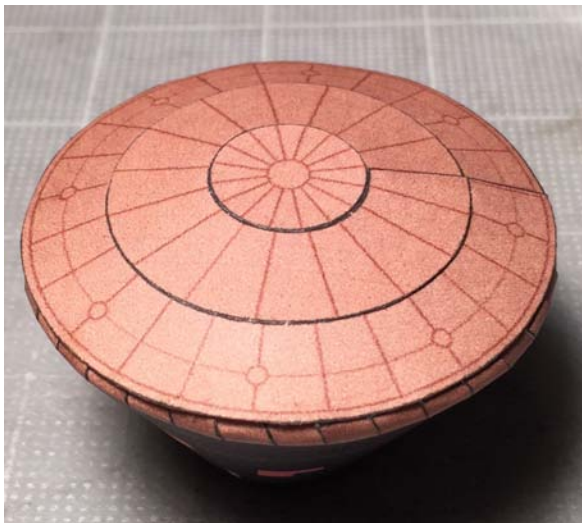
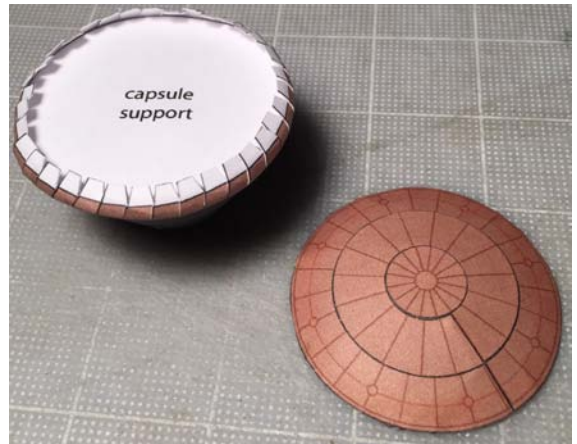
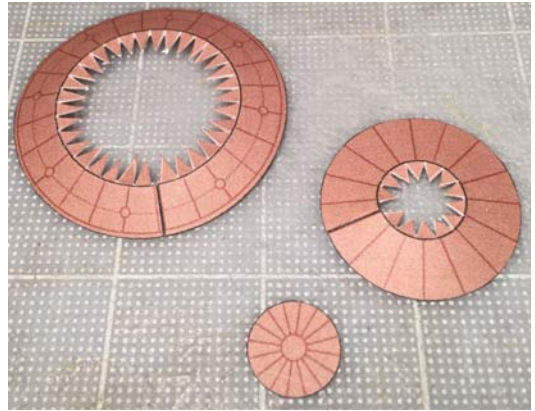




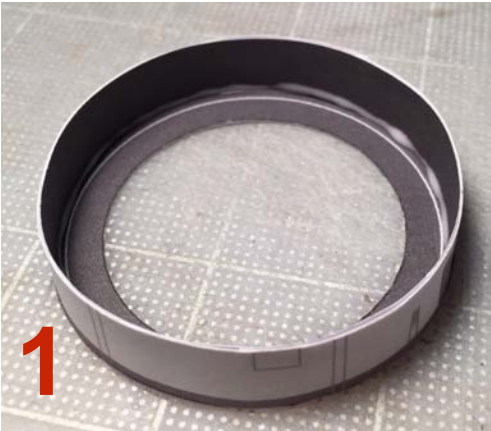
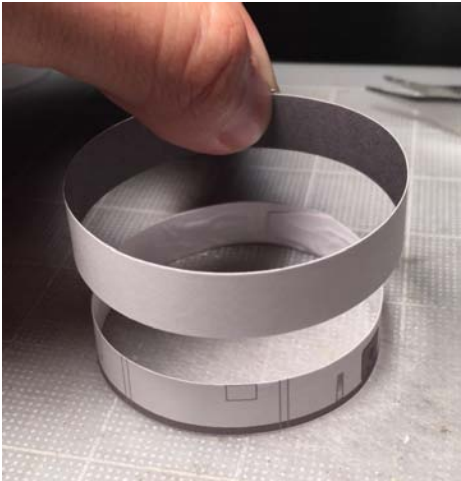




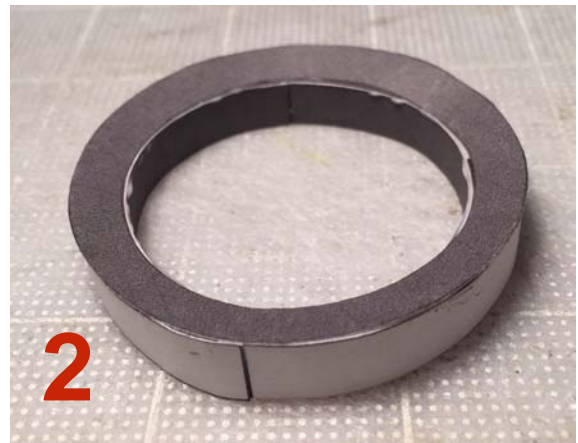
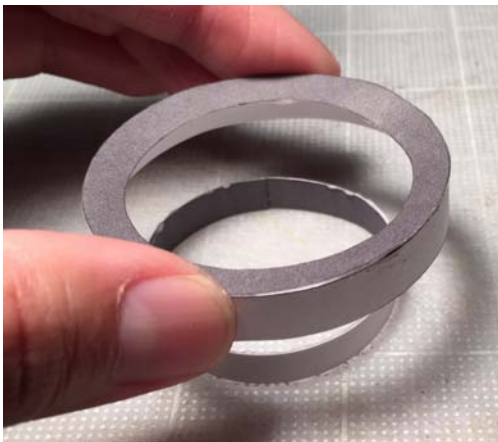
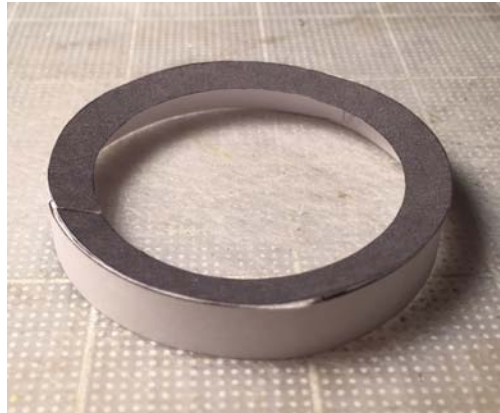


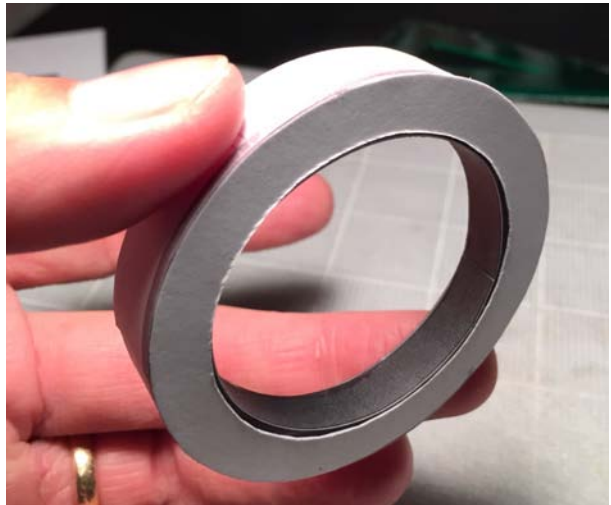
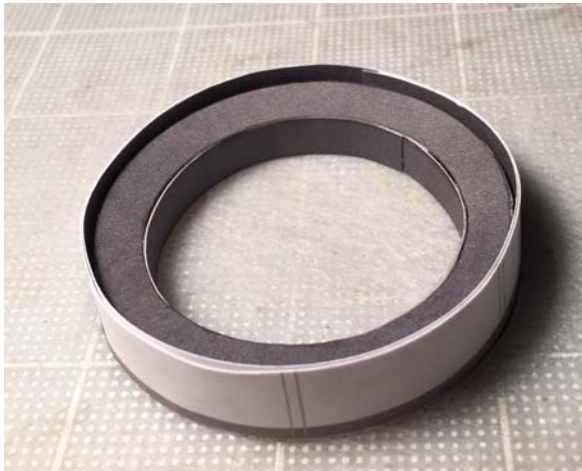
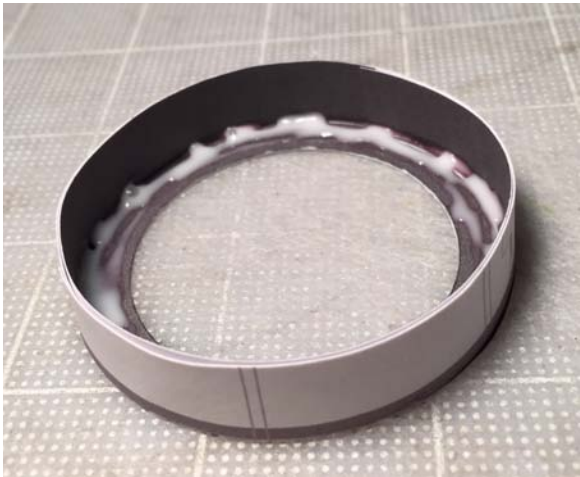


Dummy Service Module Assembly

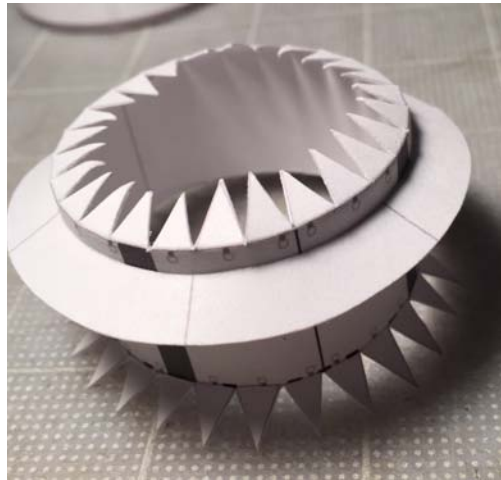
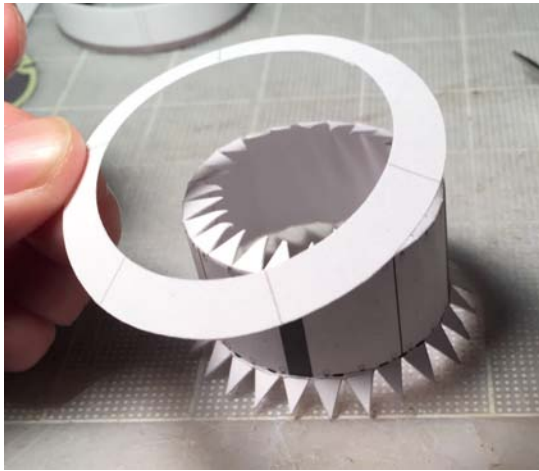
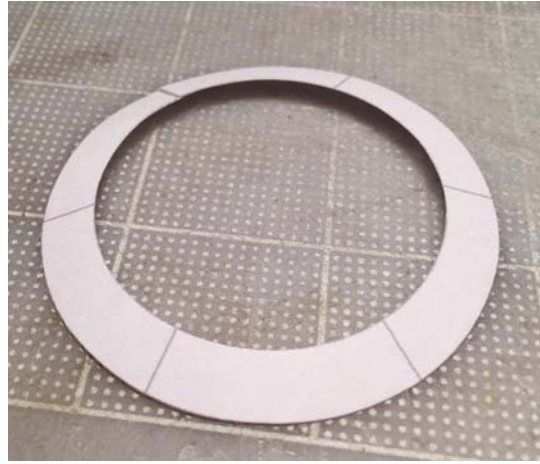
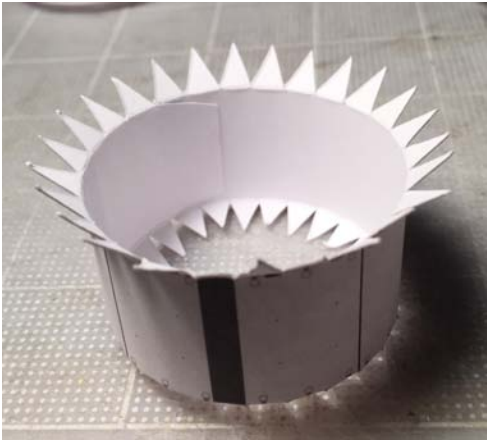
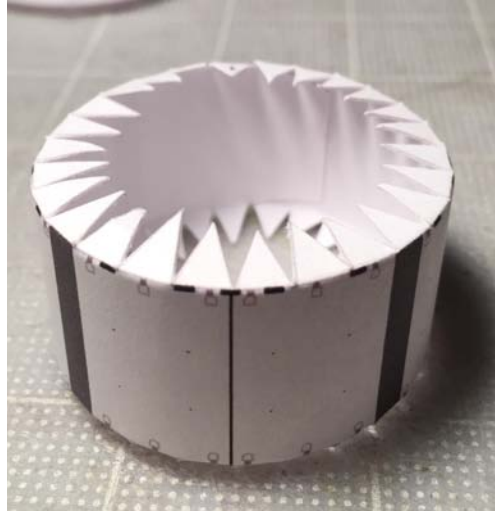
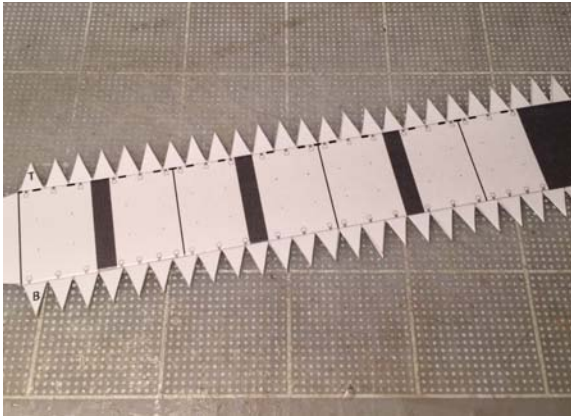


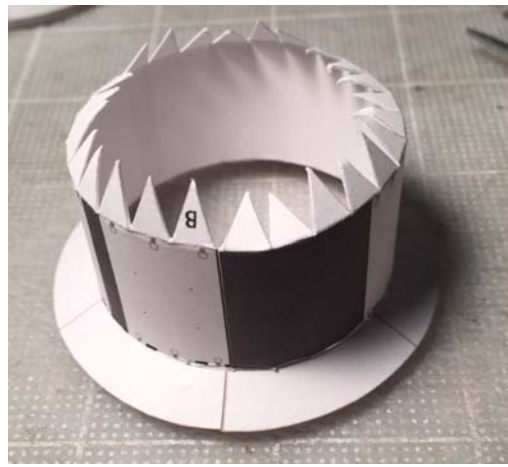
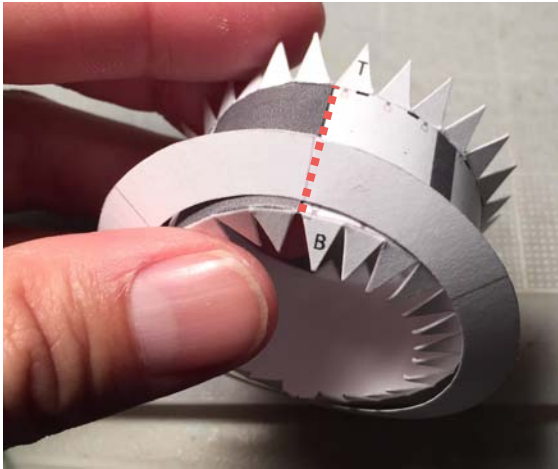




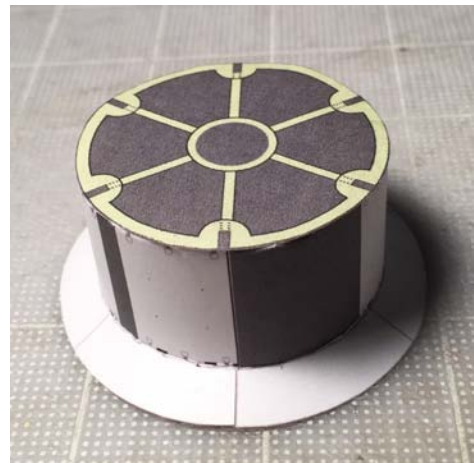
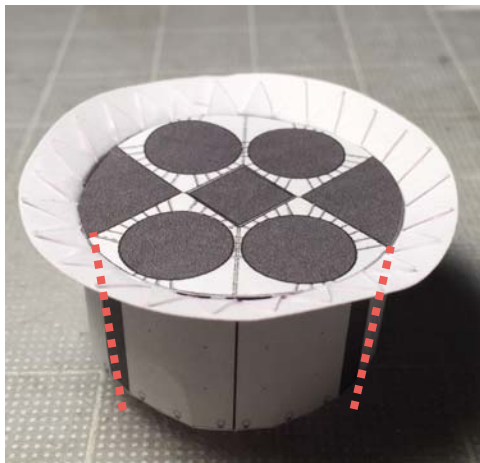
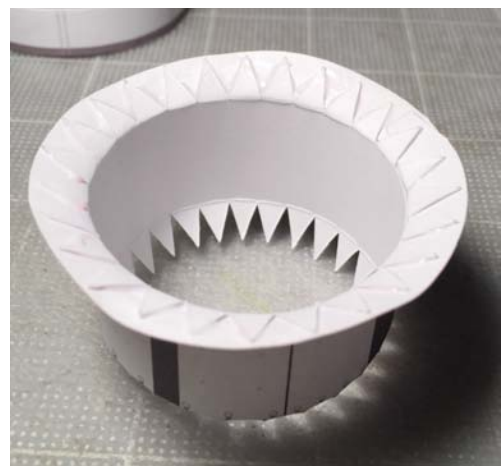
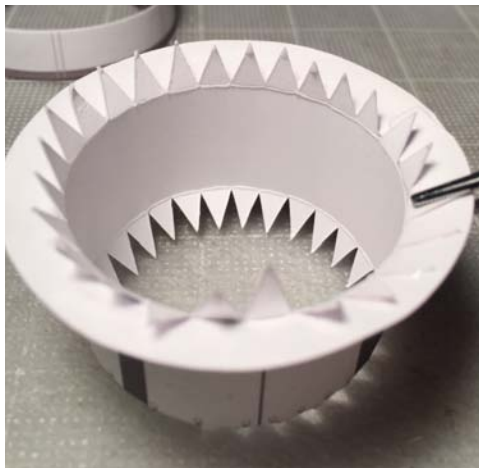




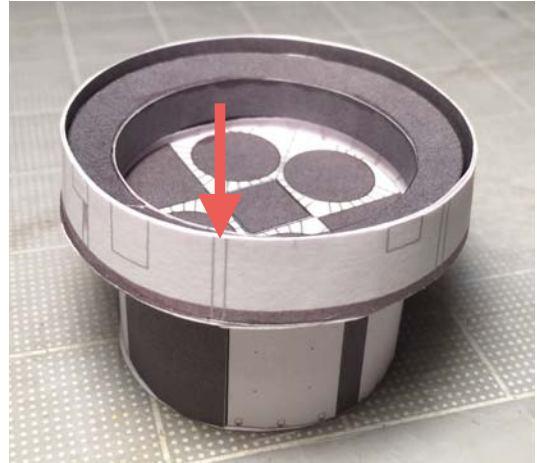
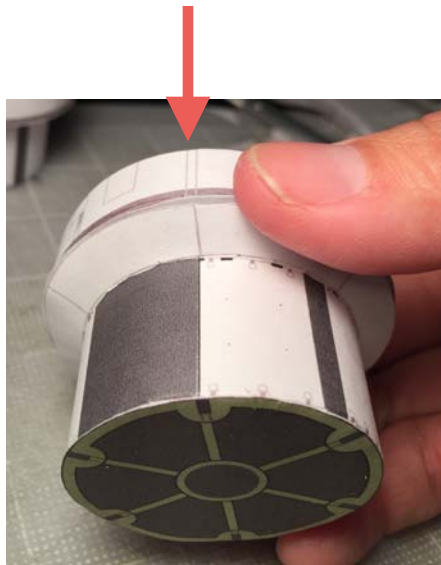




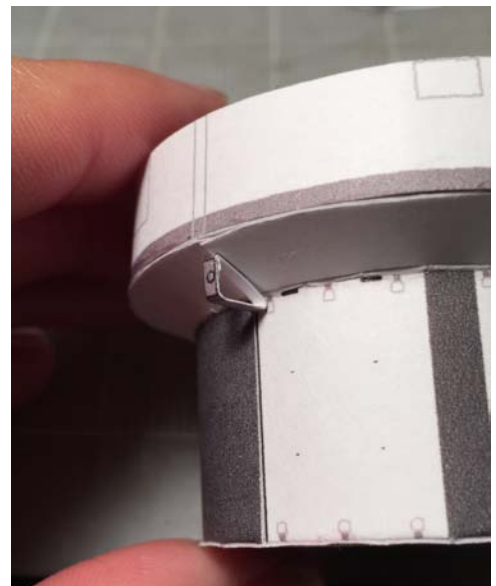
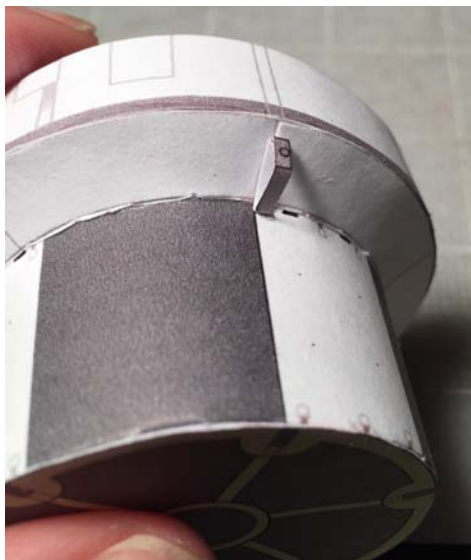
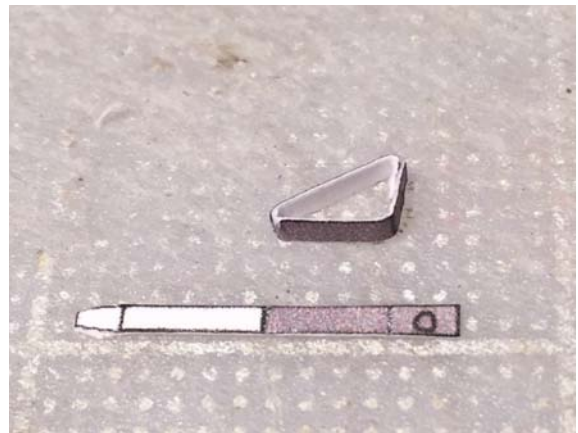
Align the seams of both parts in between the big black and white areas.

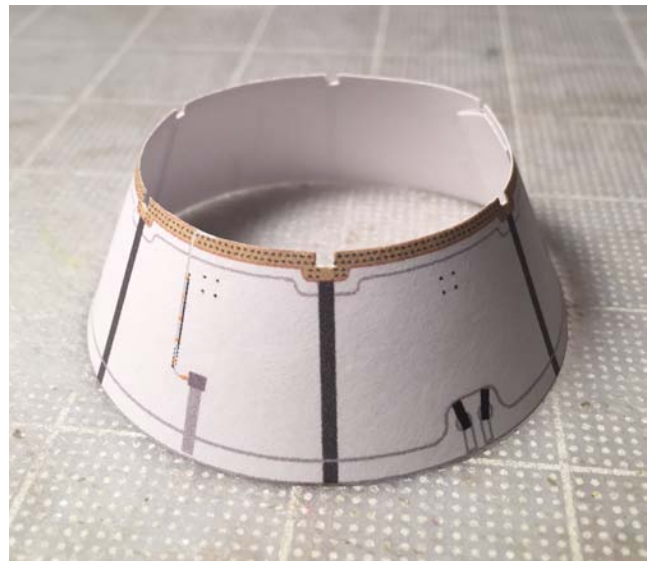
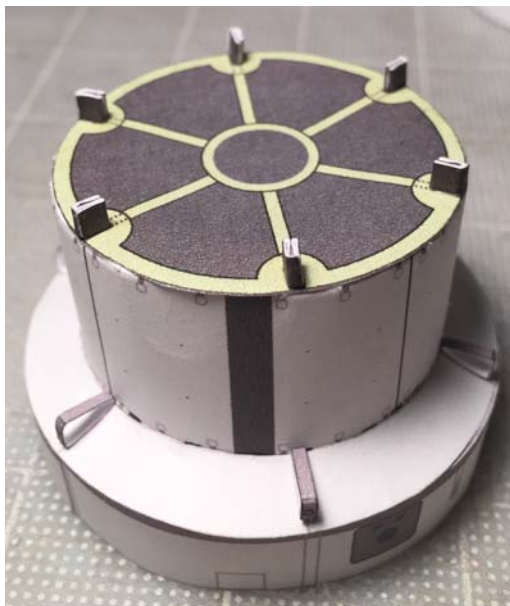
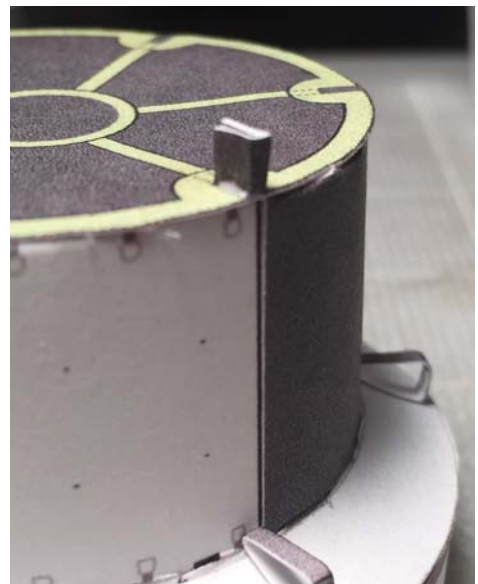
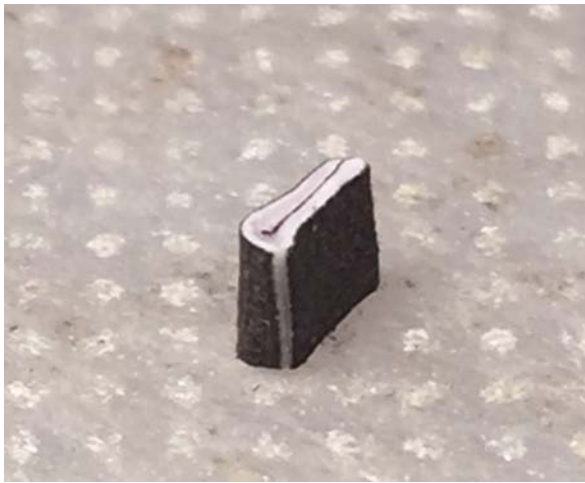
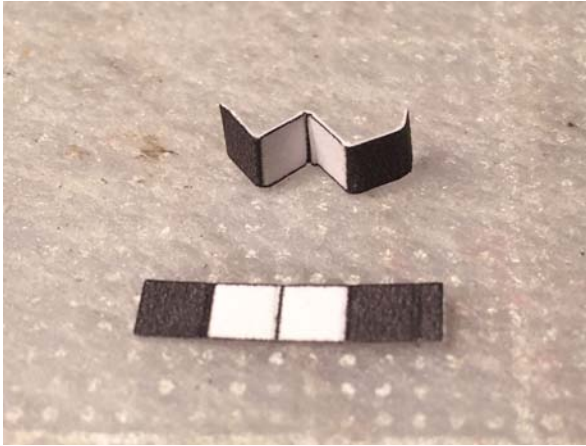






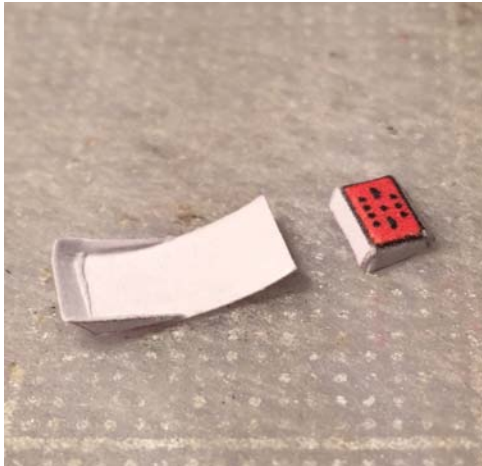
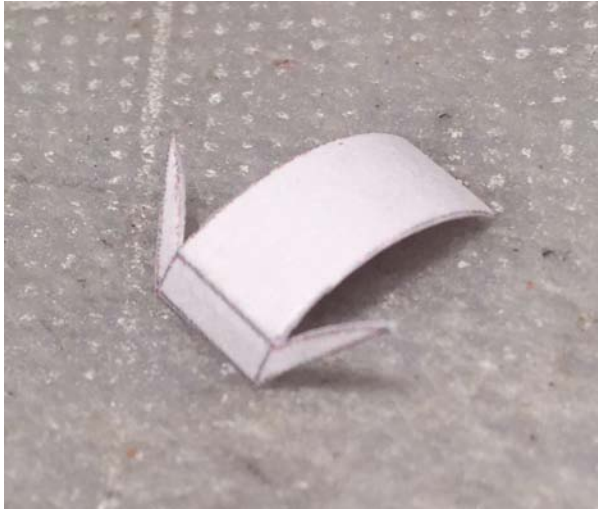
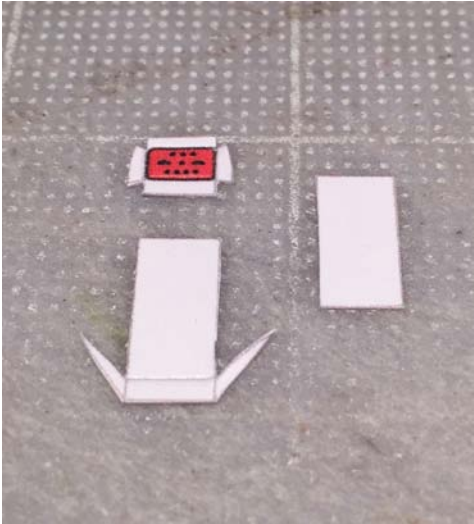
IMPORTANT: This is the First reference point in order to align these 2 sections of the Service Module. This reference point will also serve to align the windows of the Orion capsule with this Service Module.

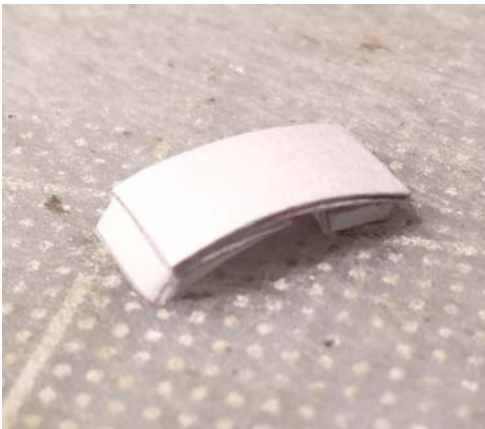
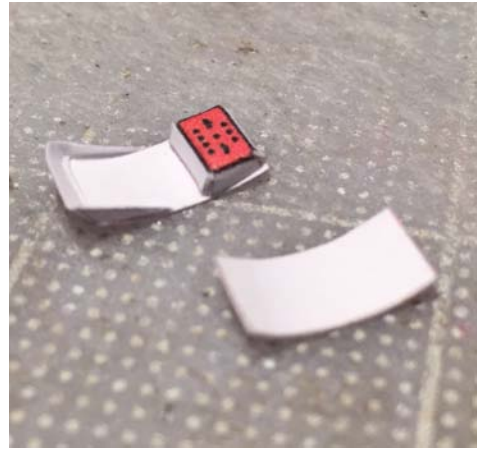
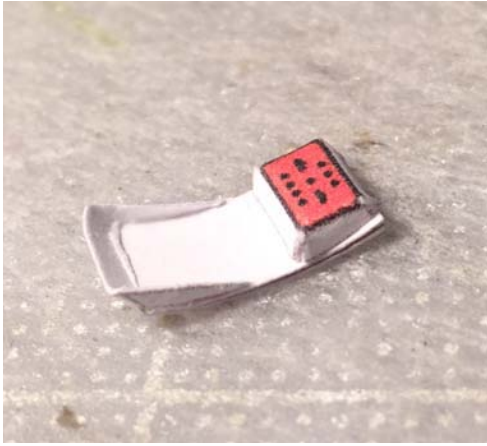






**Installing the Orion/Service Module Connector**

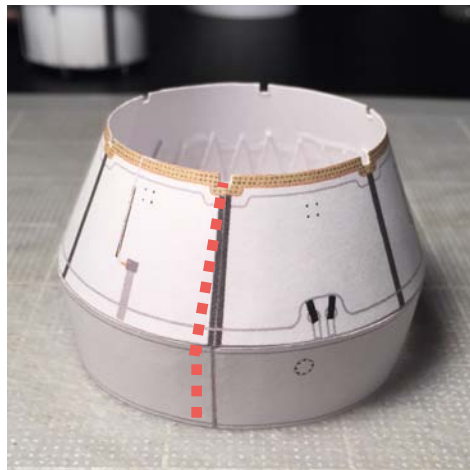
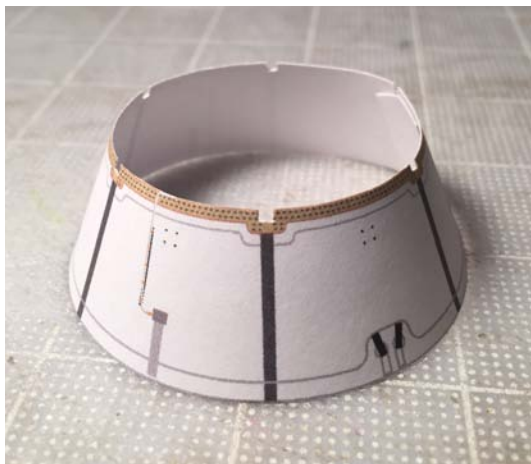
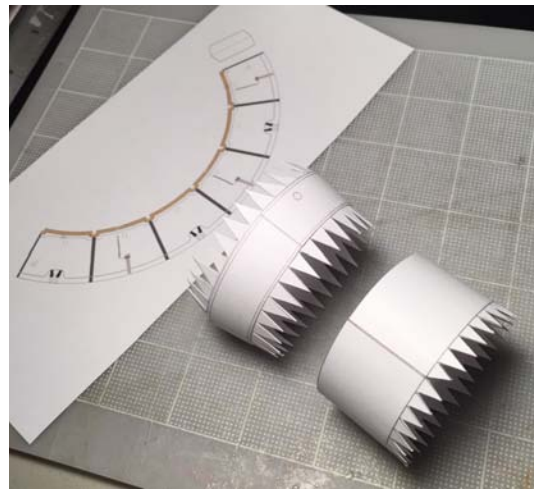
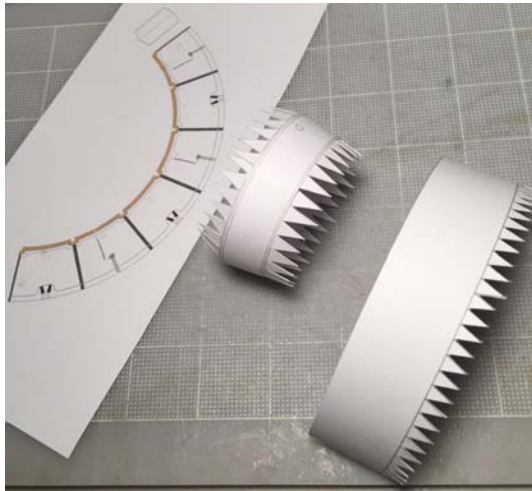






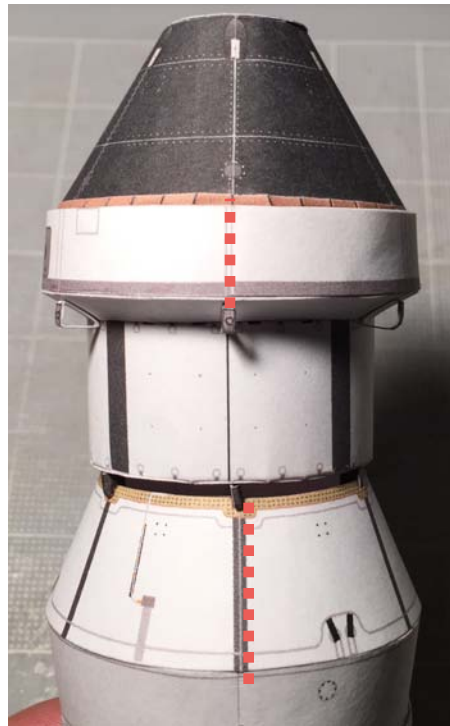


**Adding the Service Module Cone Adapter**





This is how Orion is aligned with the Service Module and with the adapter. Notice the details and where the seams are placed.



This is how Orion looks from the back. Notice the details and where the seams are placed.



**IMPORTANT:** This photo shows where the Second Reference Point is located. It is the line between Orion's US Flag and the side window.

This Second reference point is where the Service Module fairing small tab with the number 1 is aligned with and also corresponds to the front of the Delta IV.

Do not glue the Service Module with the Adapter otherwise the Fairing cannot be inserted.

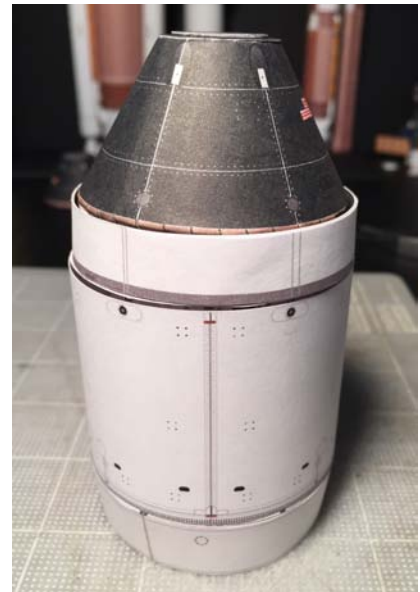
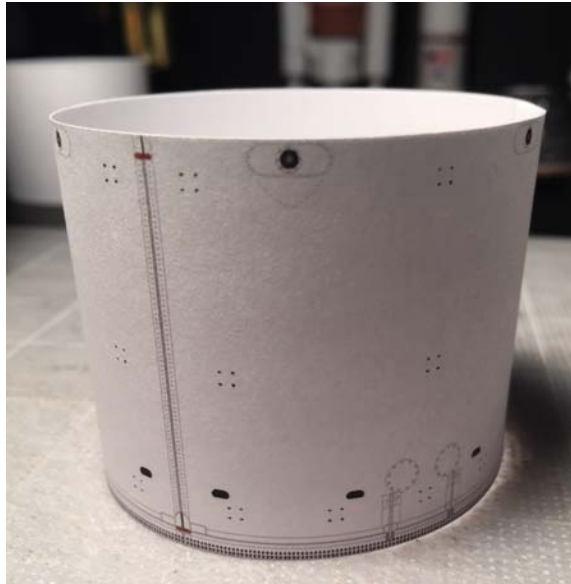
Both Orion/Service Module and Adapter are glued together only for Orbit configuration.



Closeup photos

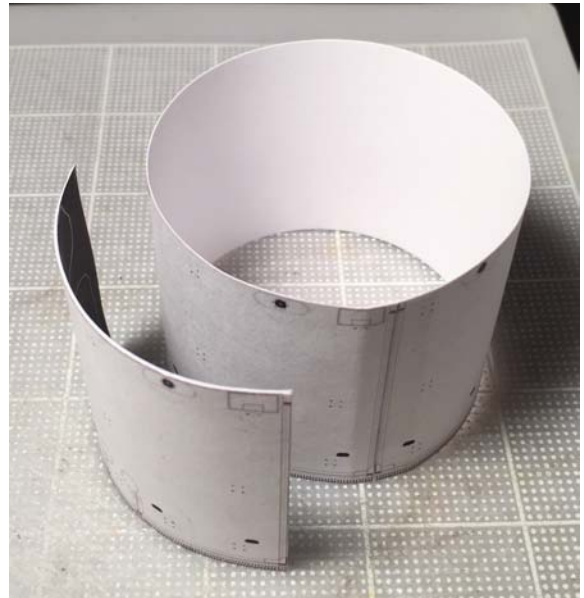
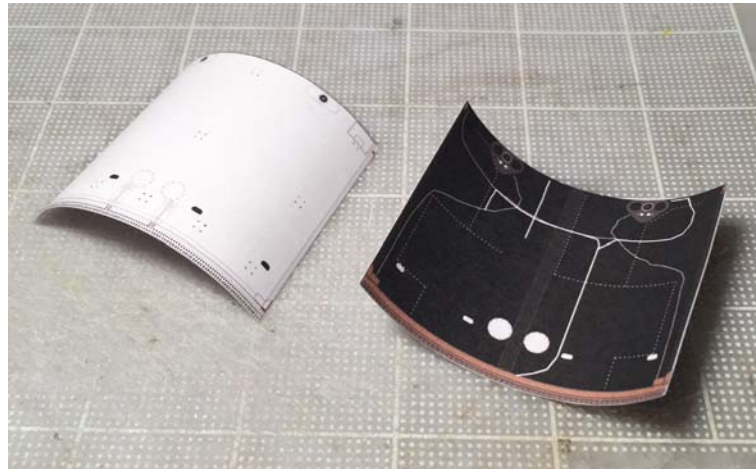


**Adding the Service Module Fairing (launch configuration)**

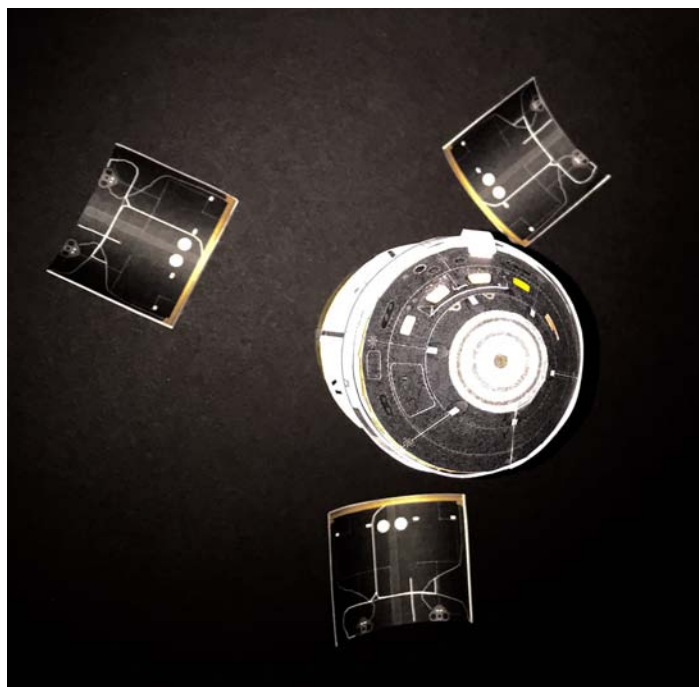
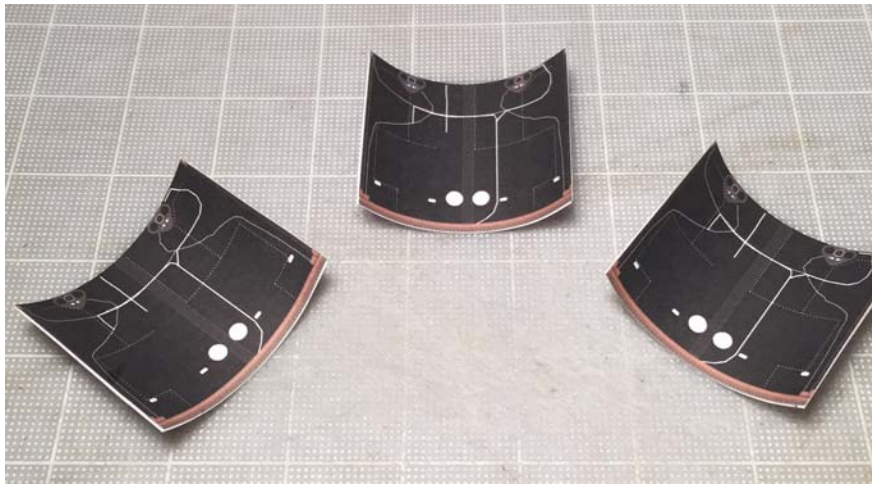




## Service Module Fairing (fairing separation configuration)



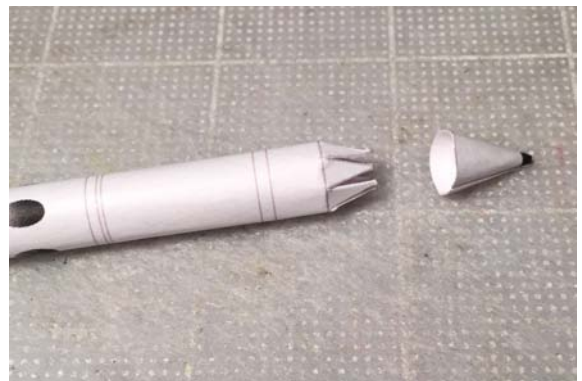
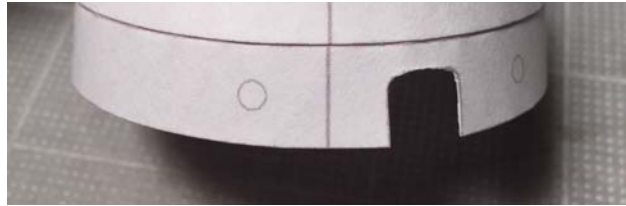
Test the curvature with the closed Service Module fairing.

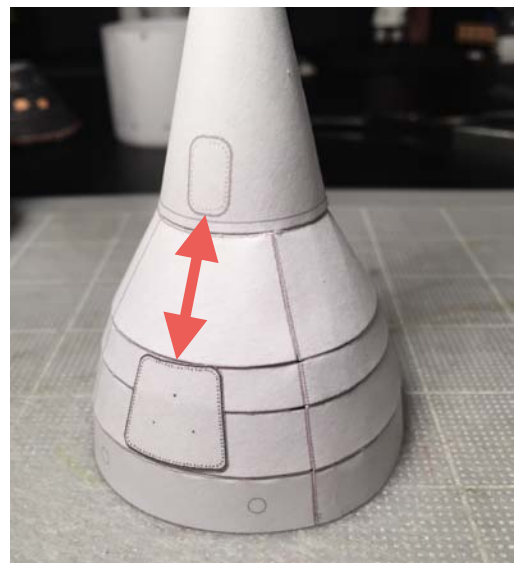
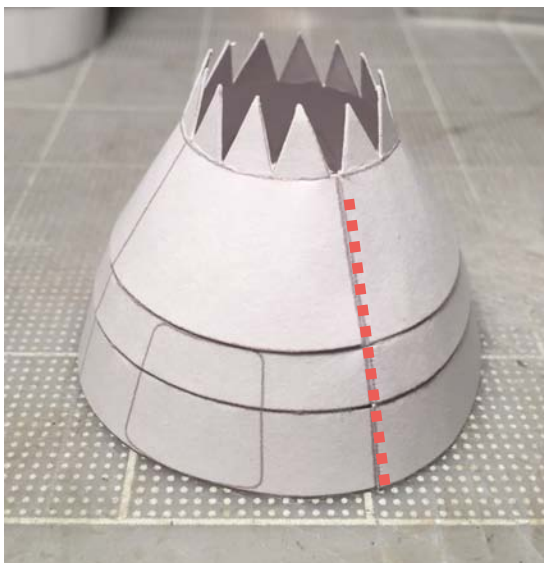
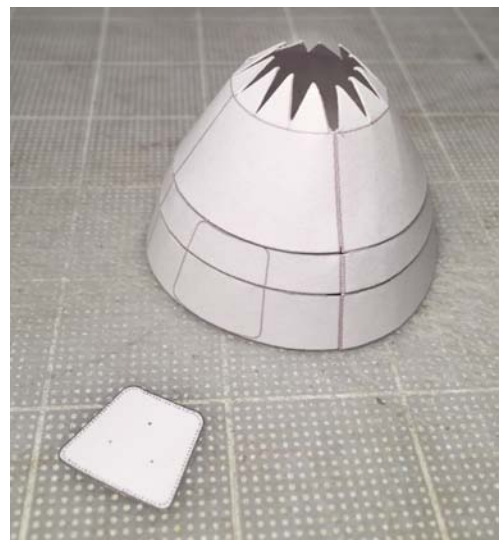
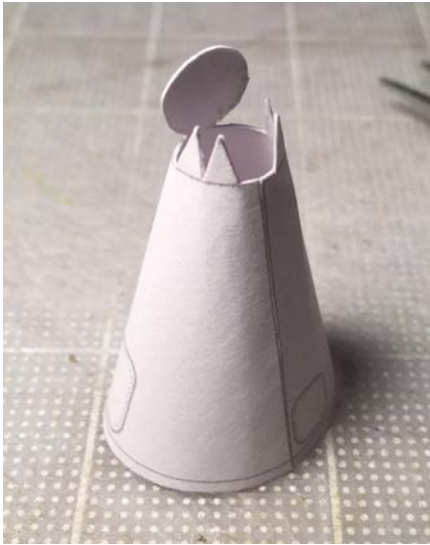




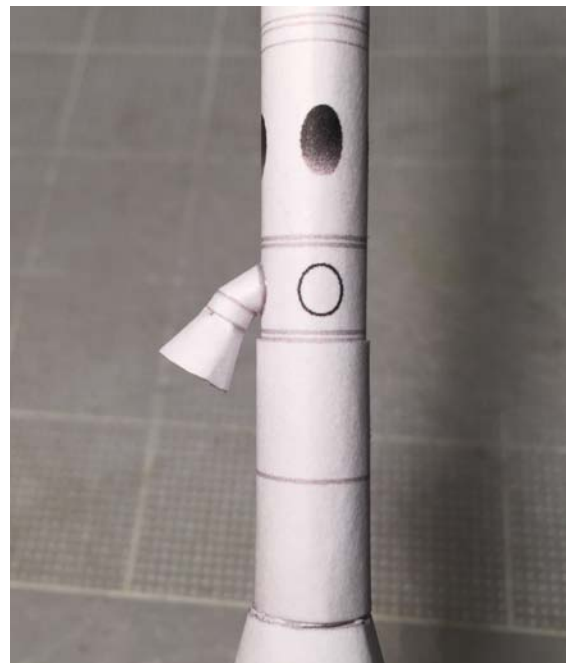
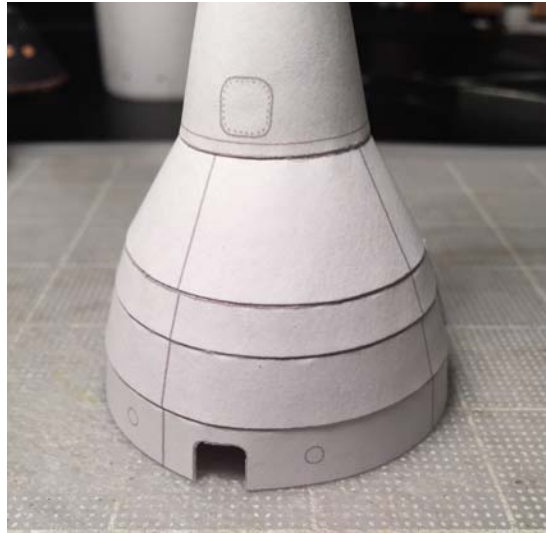
## Building the LAS (Launch Abort System)

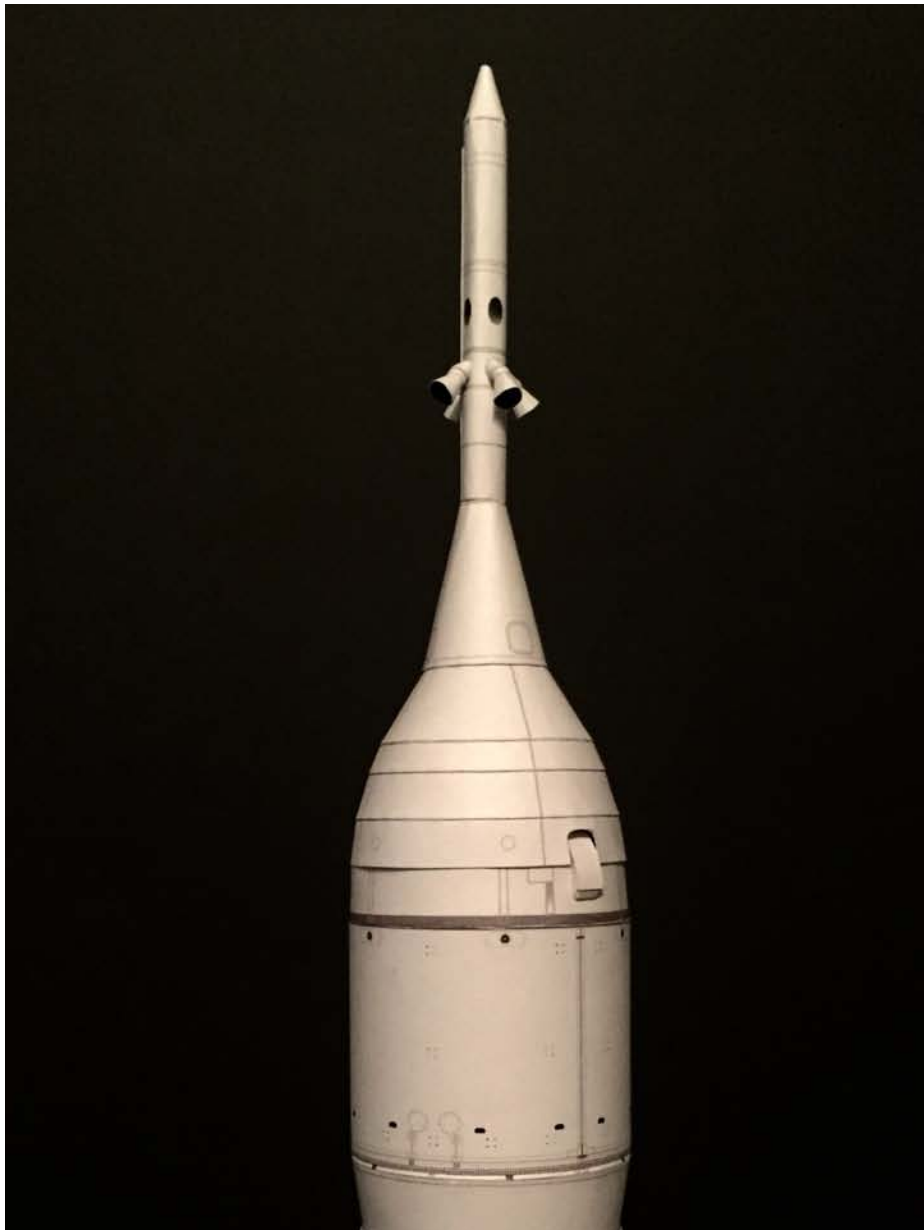
IMPORTANT: The first step is to cut out the small square area on the bottom ring of the LAS block.



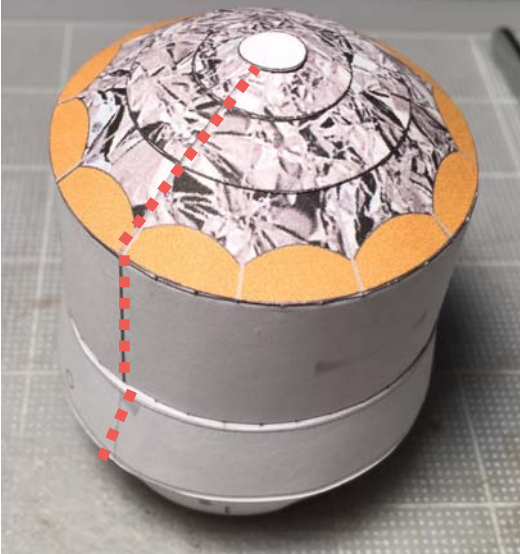
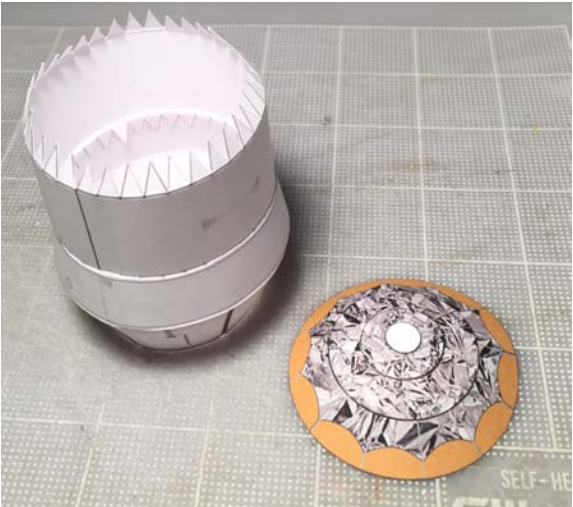
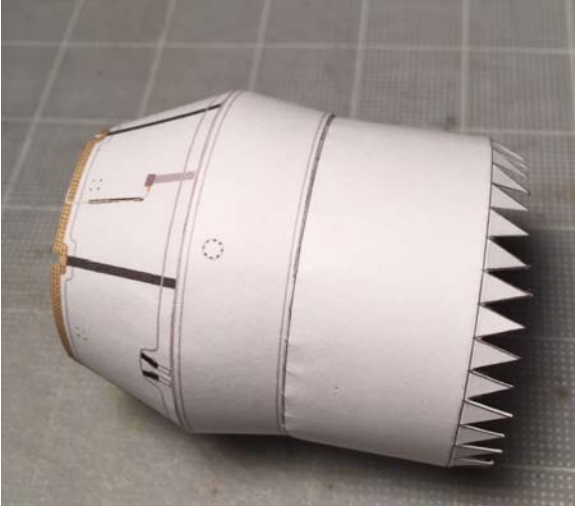




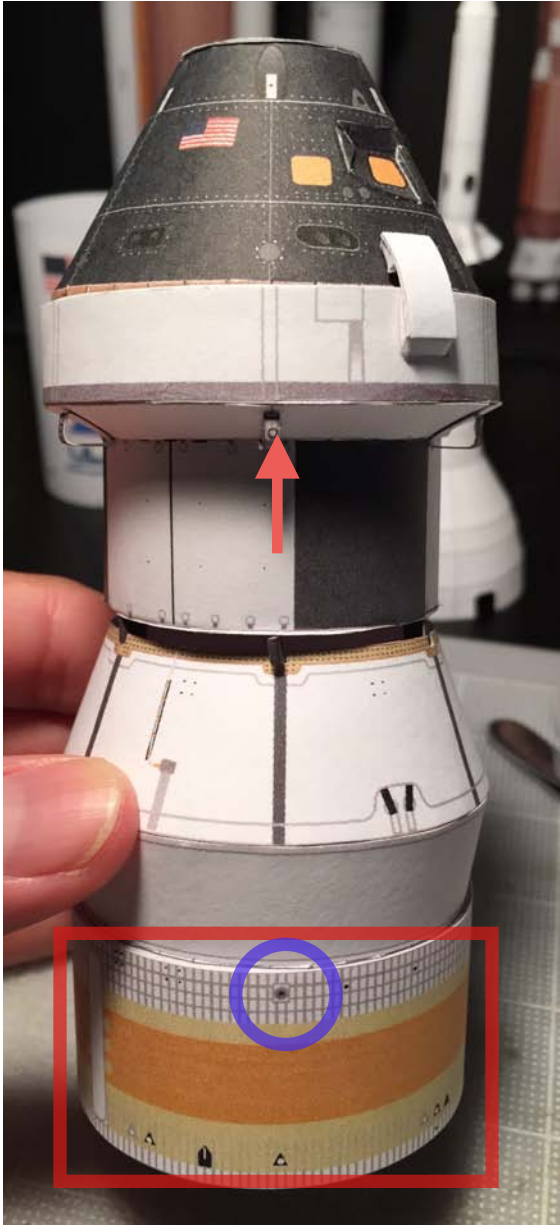




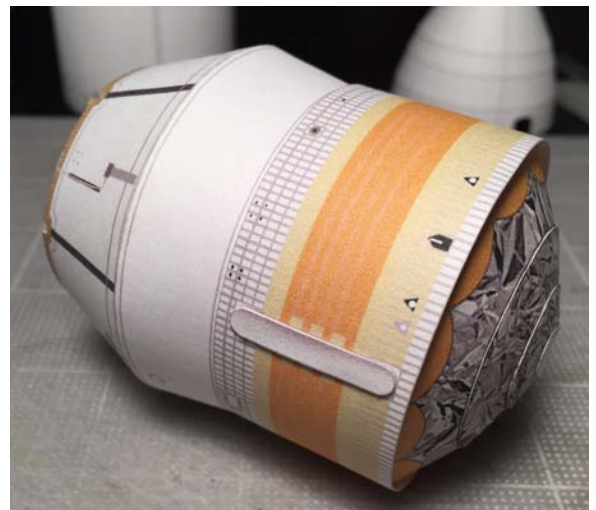
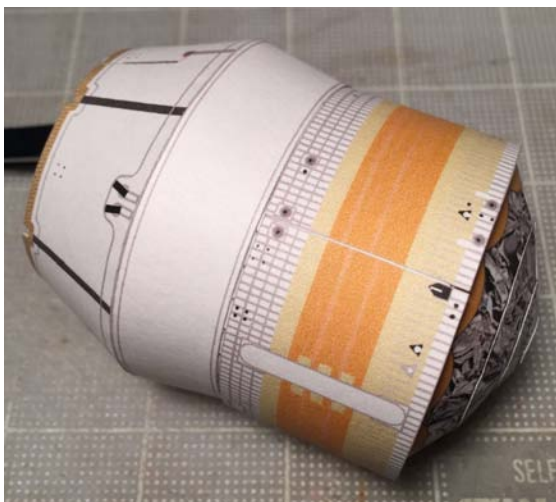
**Assembly of the Second Stage (LH2 tank)**

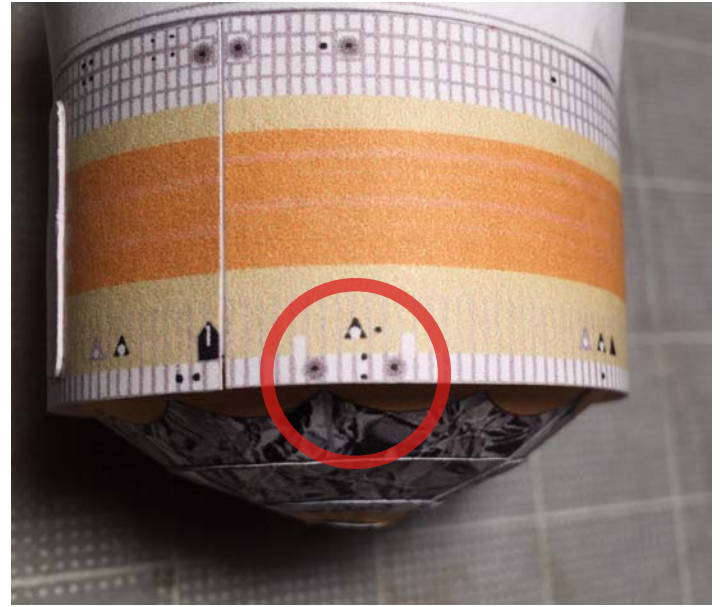
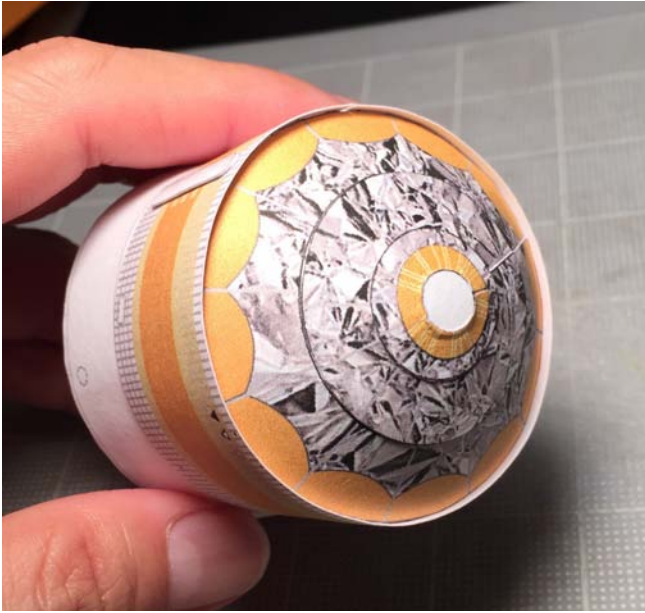




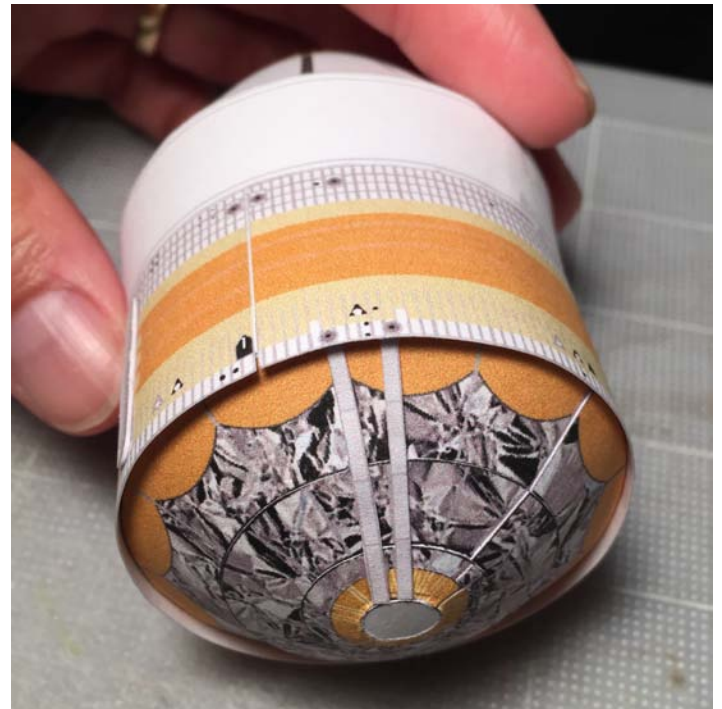


**IMPORTANT:** Before gluing the Second Stage colored section (red rectangle); position the complete block of Orion, Service Module and Adapter following the Second Reference Point or Front side of Delta IV (red arrow) and align it with the small circle (blue circle). This front side will also be aligned with the Delta IV interstage that has the US Flag and logos.



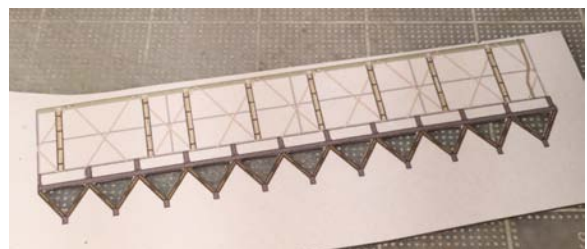
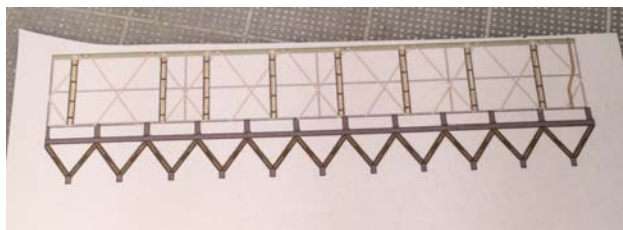
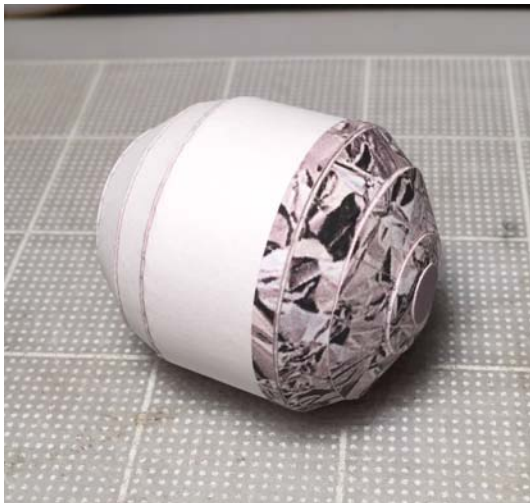
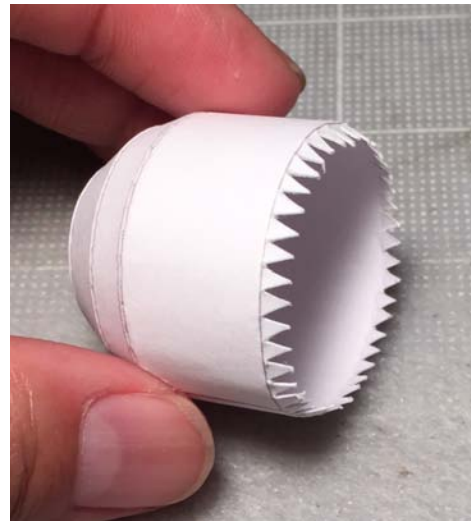
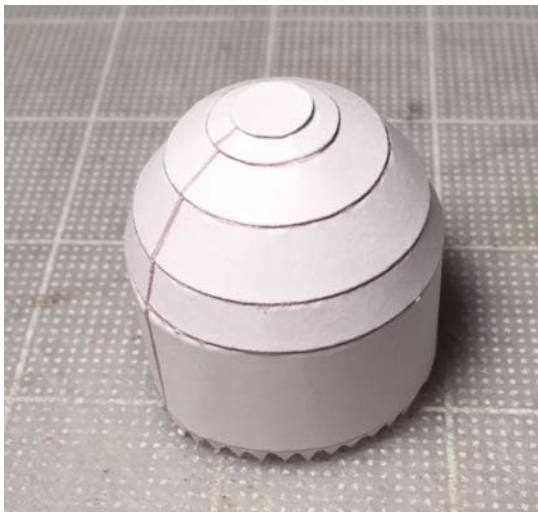


The graphic with the 2 small circles (red circle) indicates where the 2 fuel pipes will be glued on the tank dome.



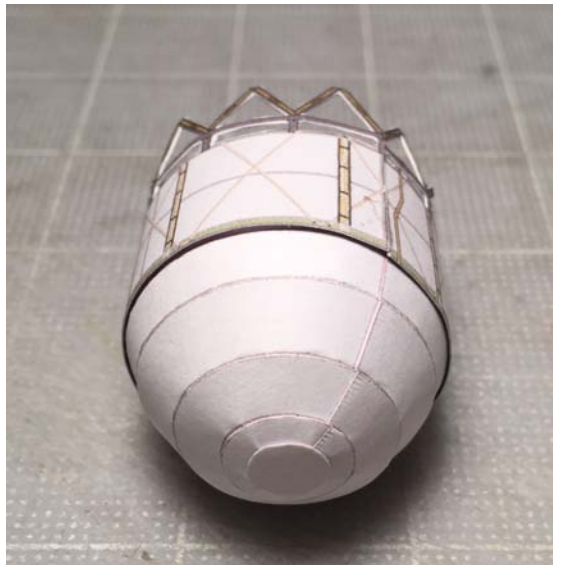
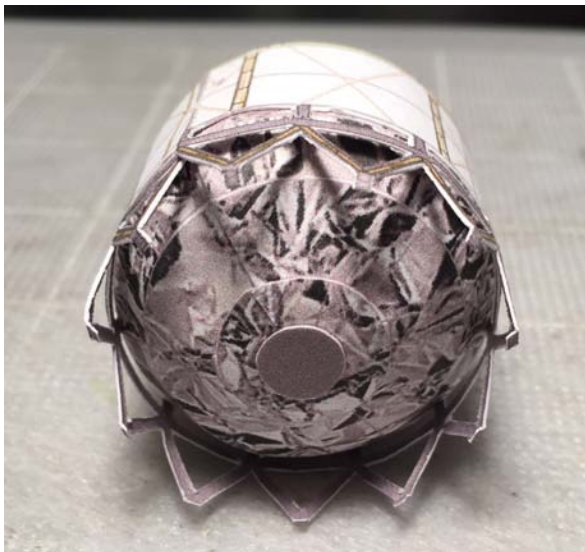
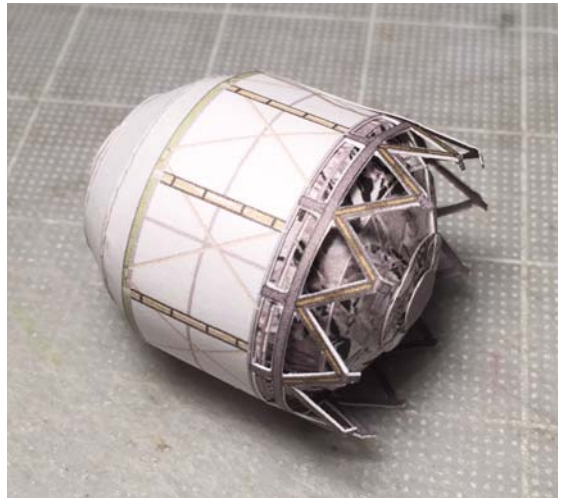
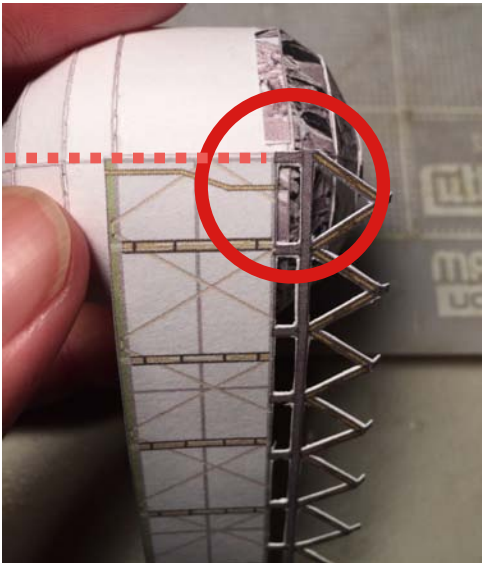
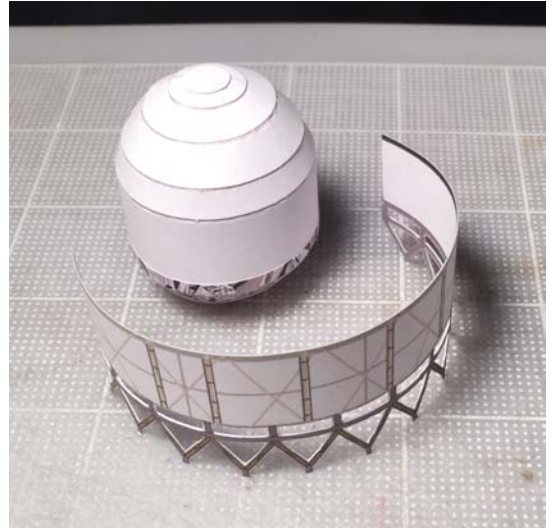
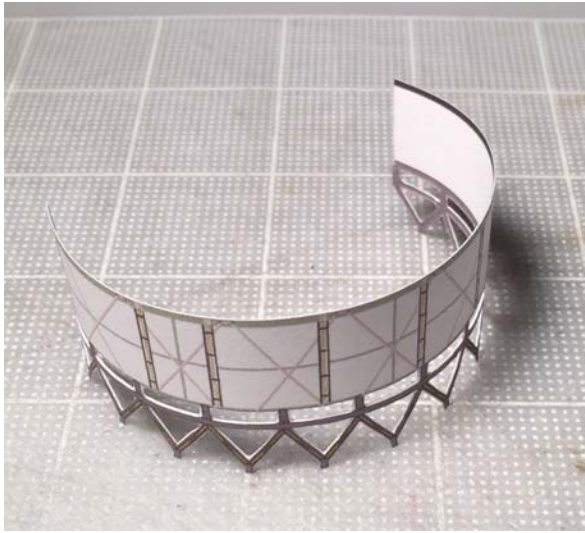


## Second Stage (LO2 tank)

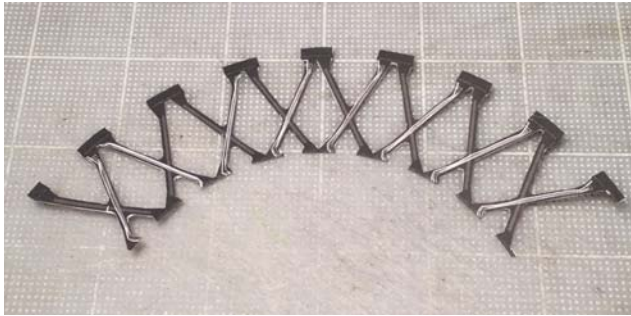


These photos are from the prototype model, therefore some mistakes are observed, such as the number of triangular sections. The photos show 11 triangles but the final product will have 10 which is the correct number. These will glue to the decagonal instrument platform.

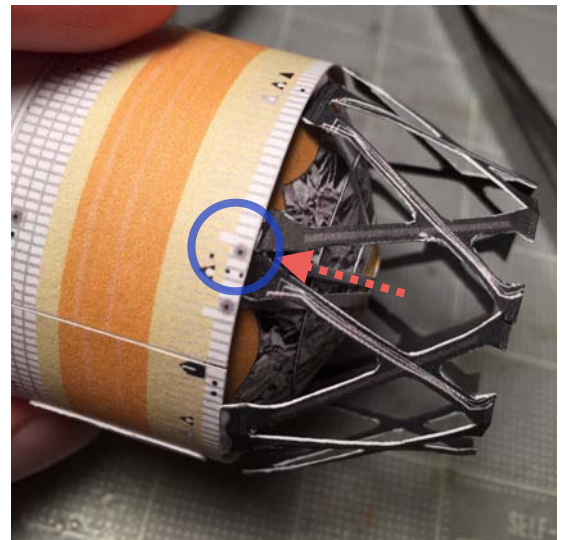




## Adding the X pattern framework

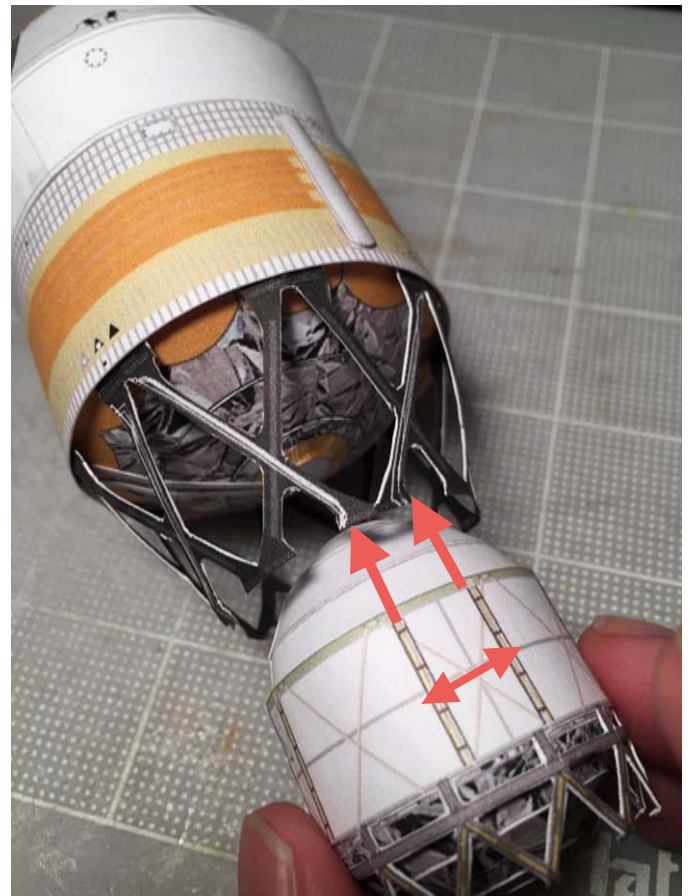
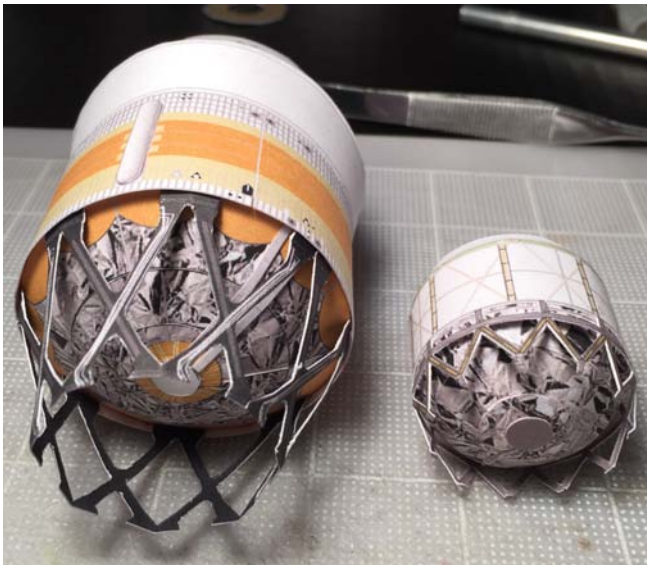


This is a prototype model part and lacks the holders for the tanks.



The seam of the X pattern framework needs to align with the small black dot as shown on the photo on the right.

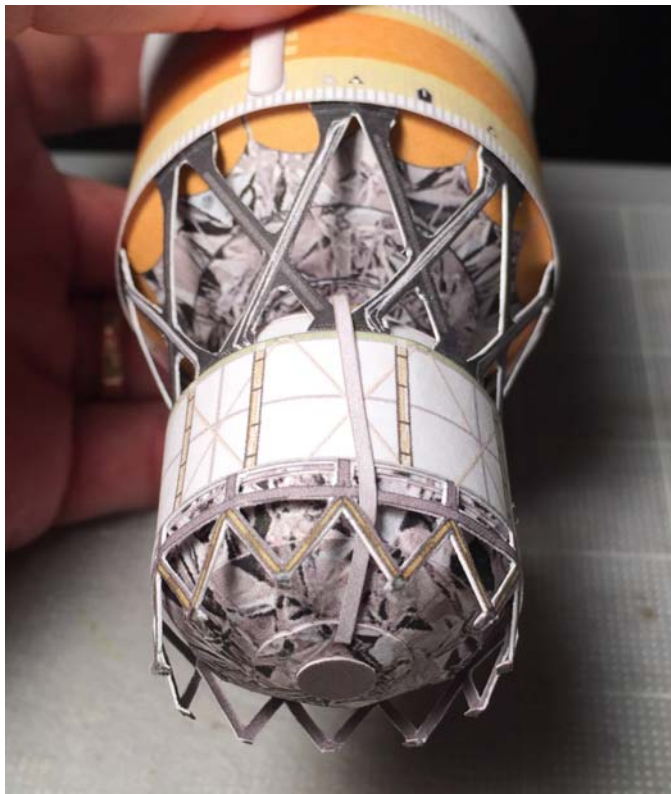
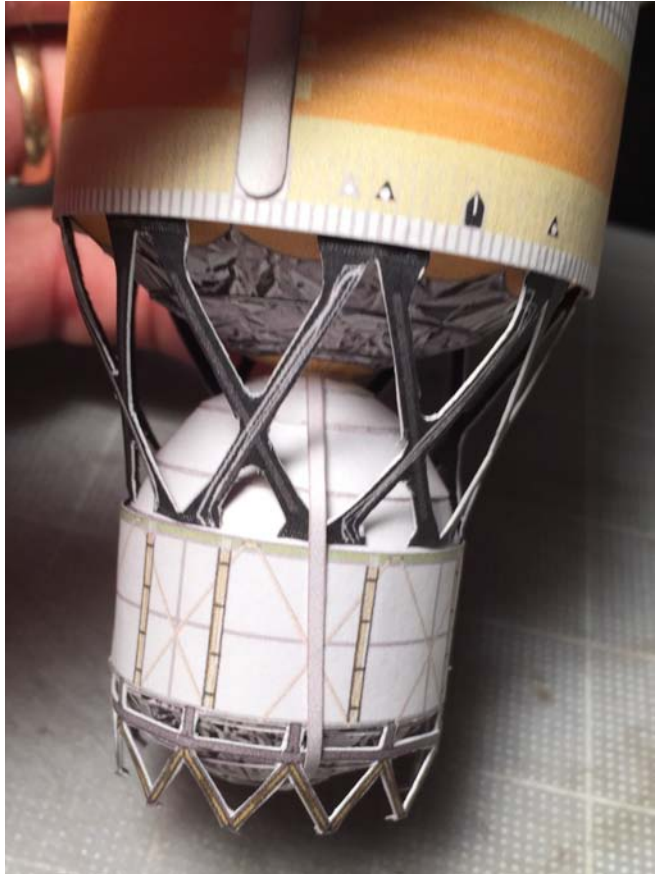




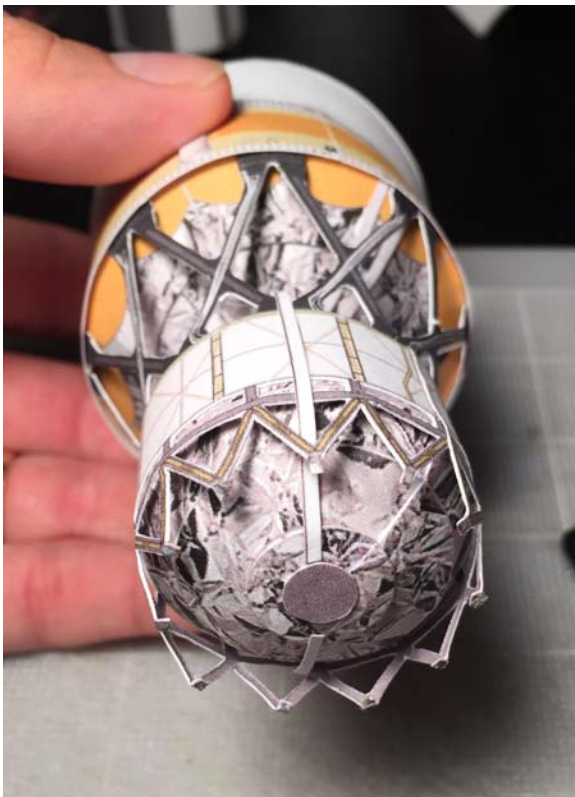
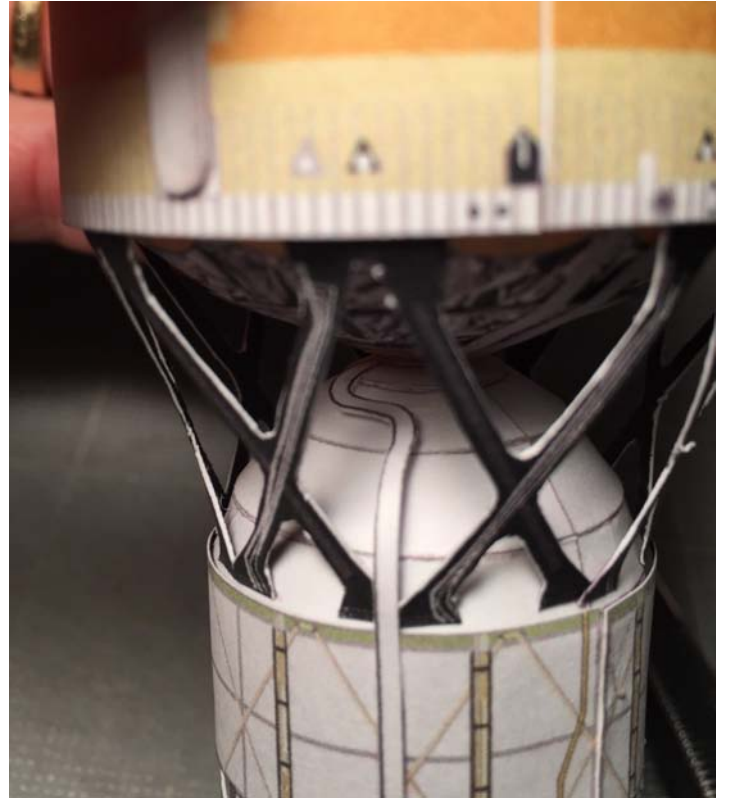
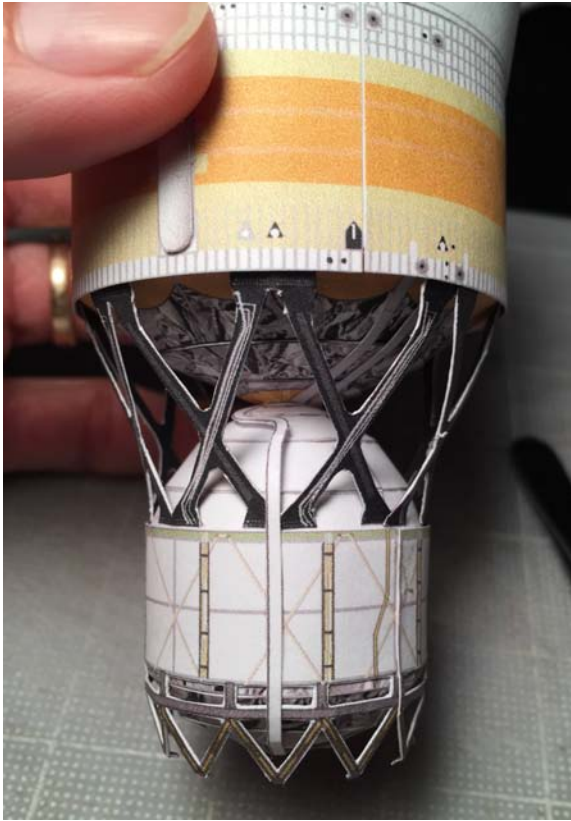
The photo on the right shows the correct way to align and glue the Second stage tanks. On the X pattern, find the only 2 arms on which the wiring forms a V shape. These need to align with the only 2 vertical wiring bars that are in close proximity on the LO2 tank as compared to the other bars that are separated at an equal distance.

When both segments of the Second stage are glued, both tank domes will touch each other firmly.



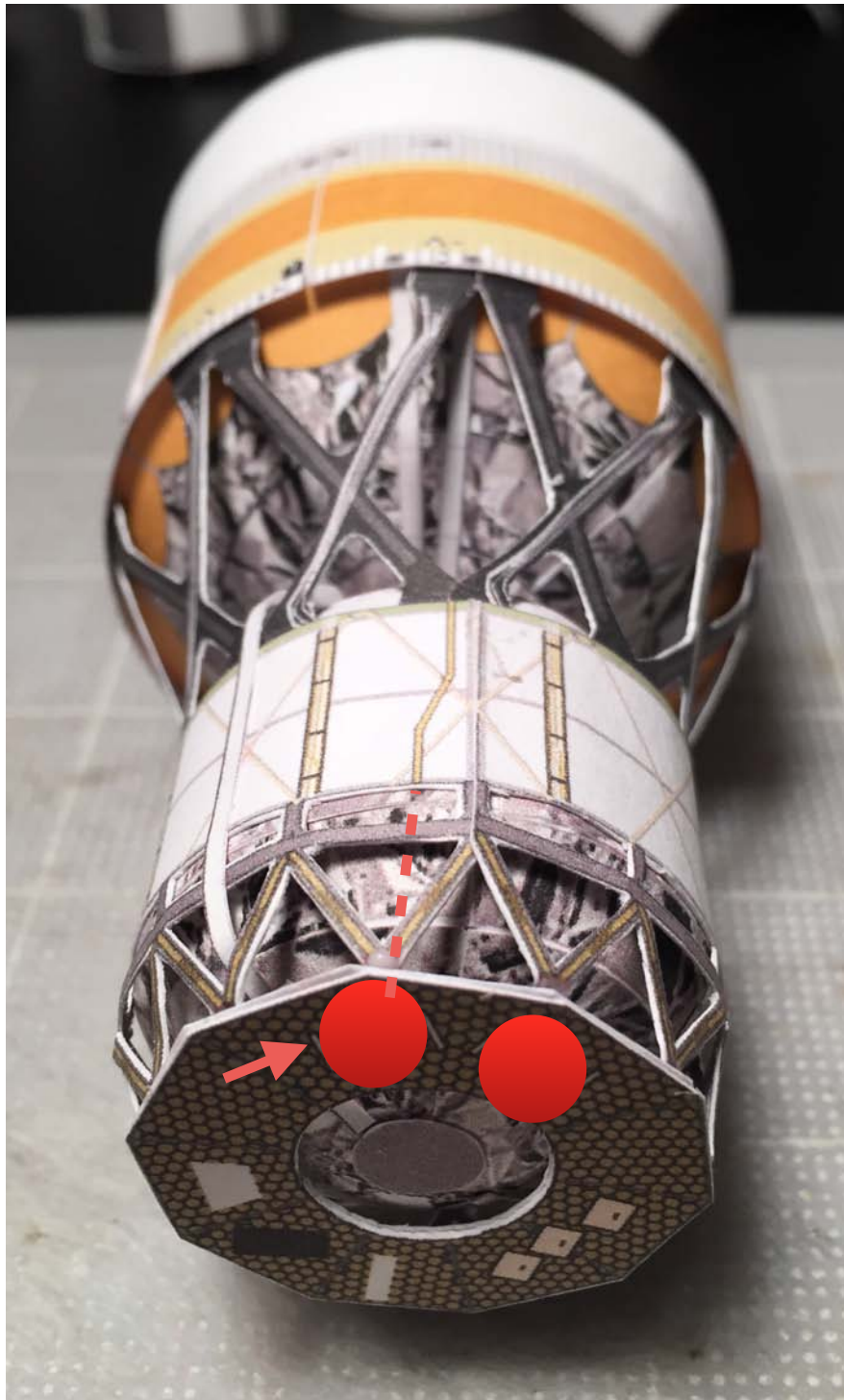


Follow the details from these photos in order to glue this first fuel line on the LO2 tank.



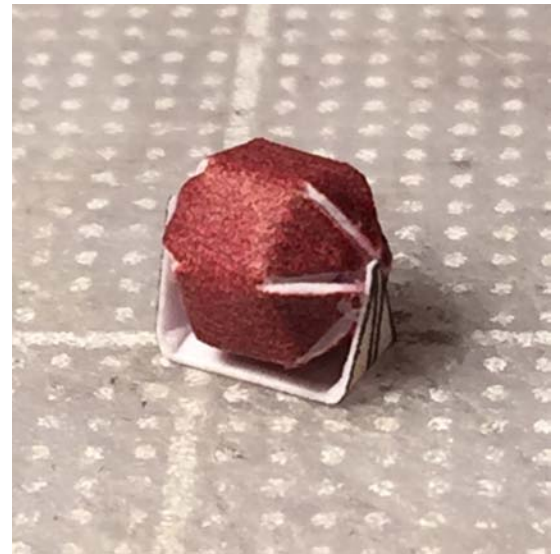
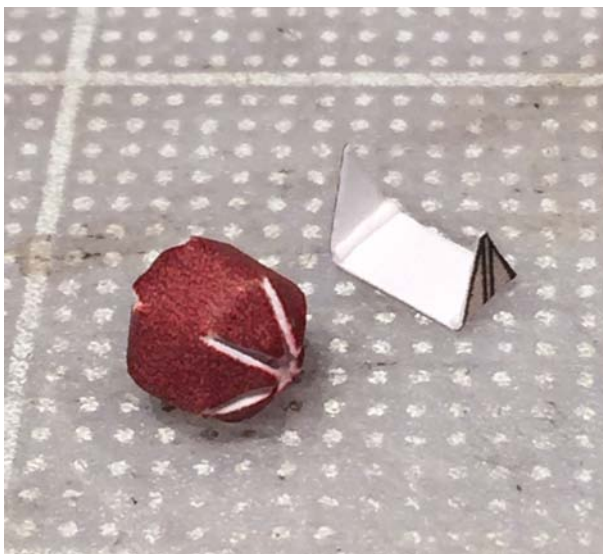
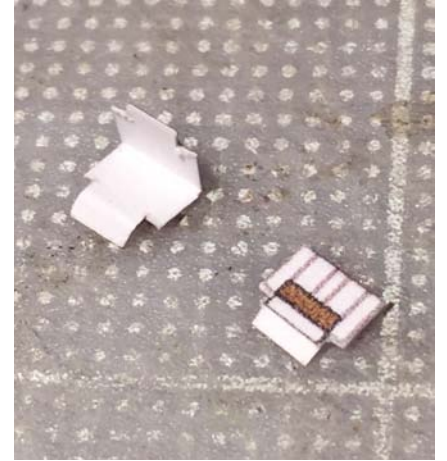
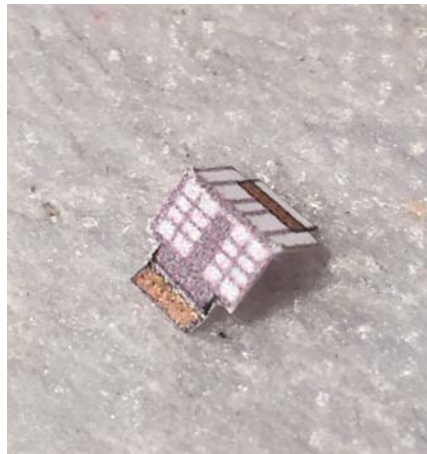
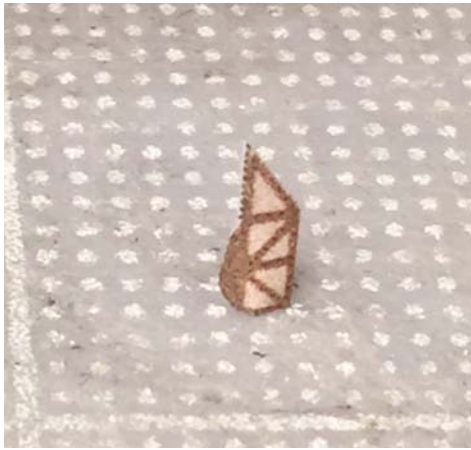
Follow the details on these photos in order to glue the second fuel line that has a curvature at the top.

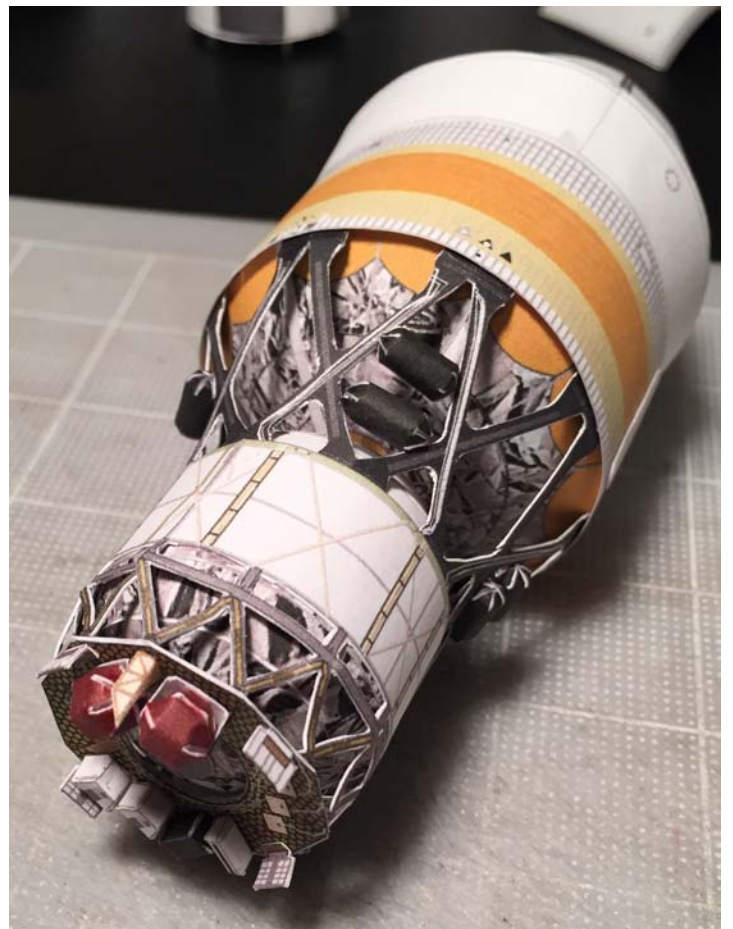
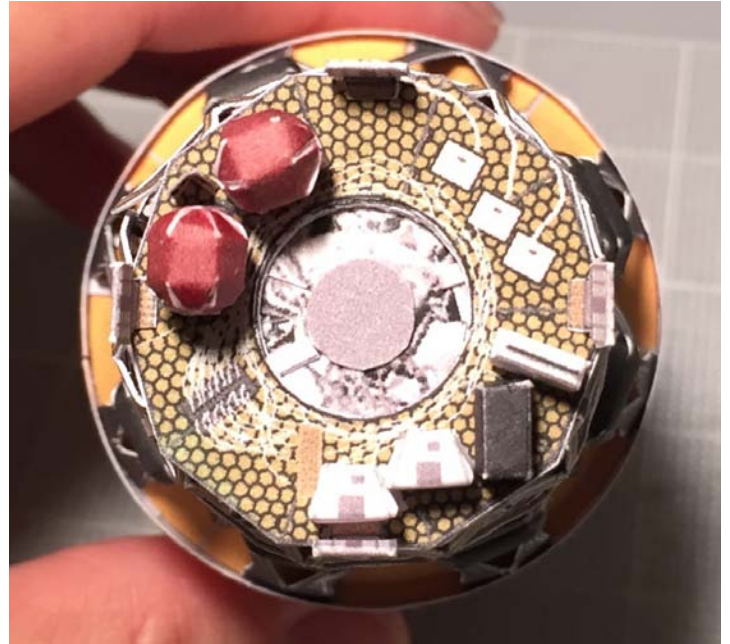




This photo shows how to align the decagon platform with the rest of the tanks. The red tank on the left (arrow) is centered with the thin golden fuel line.













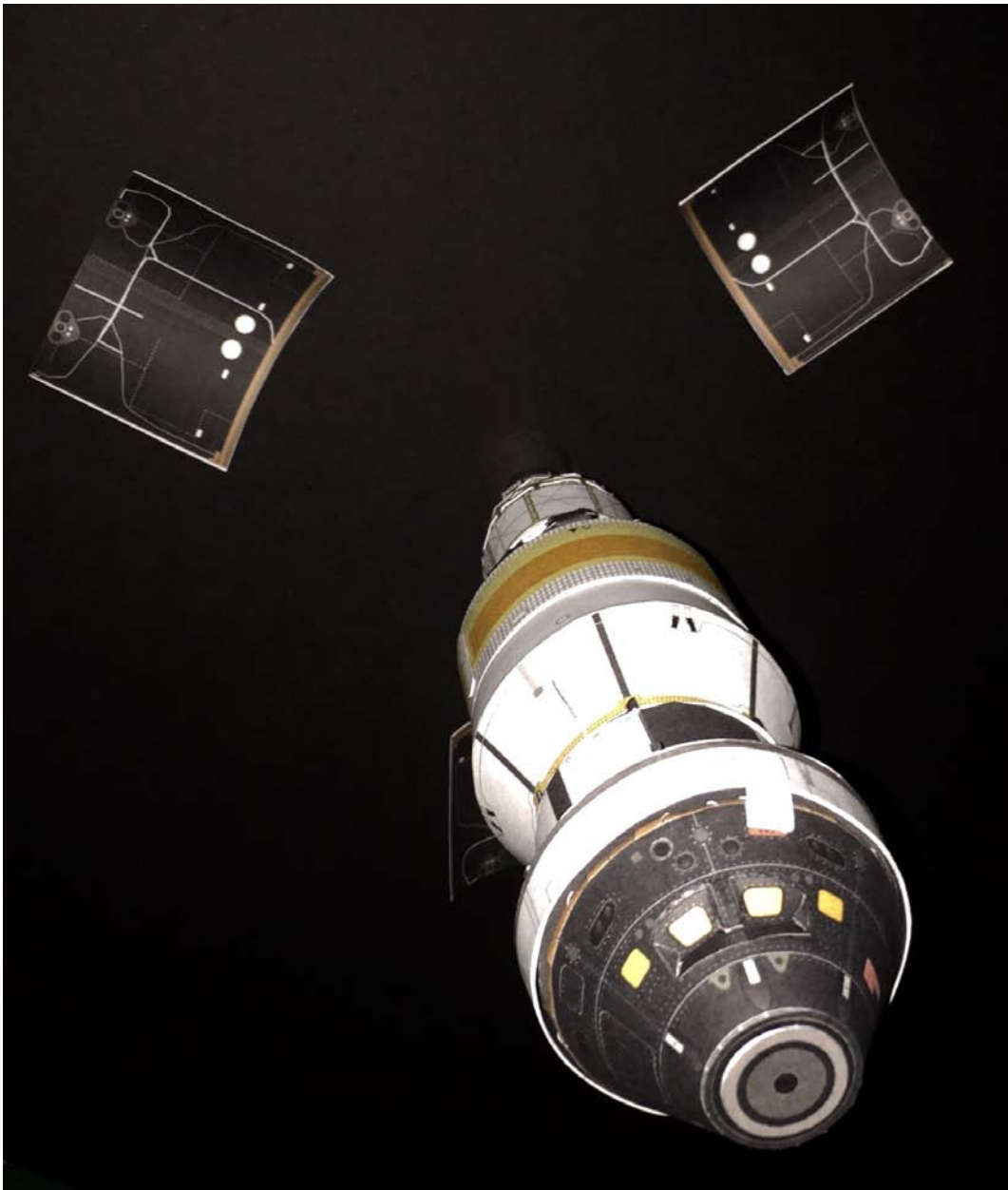
























Enjoy !!!!

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