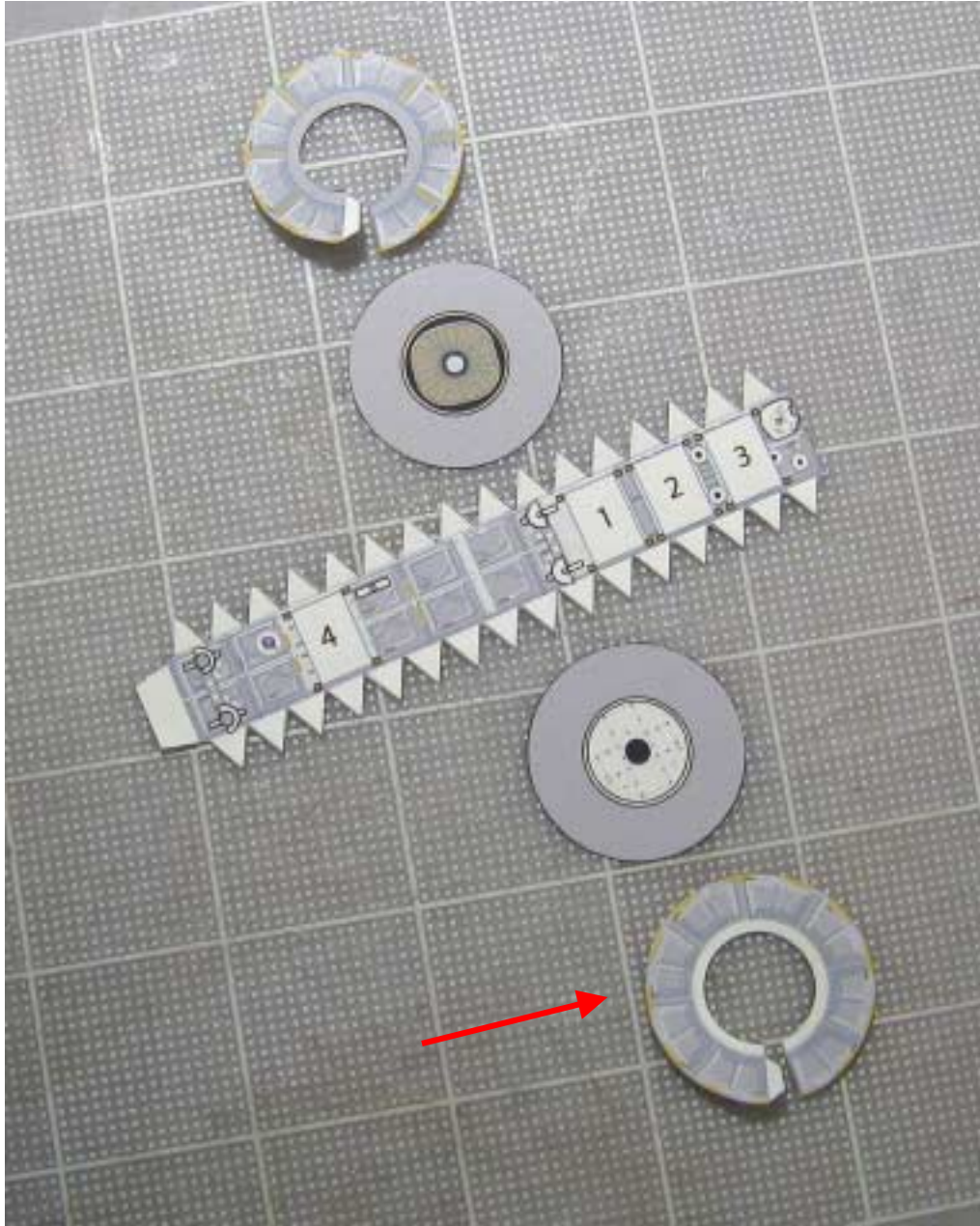
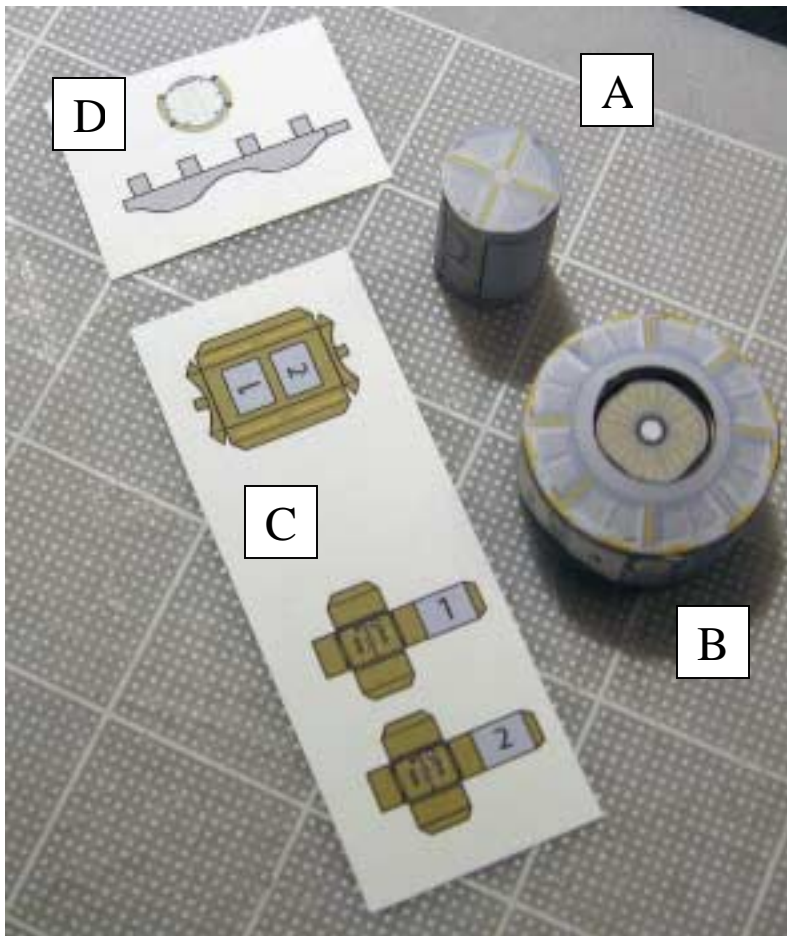


Building the “Quest” Airlock

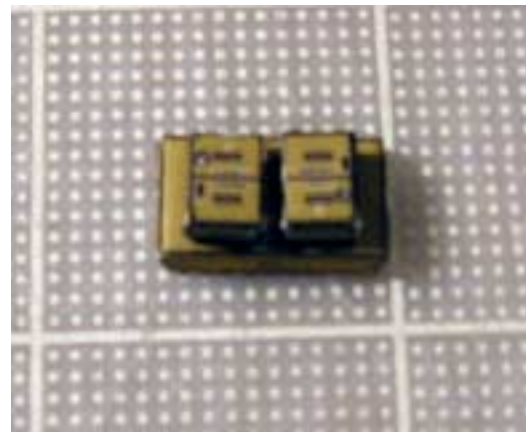
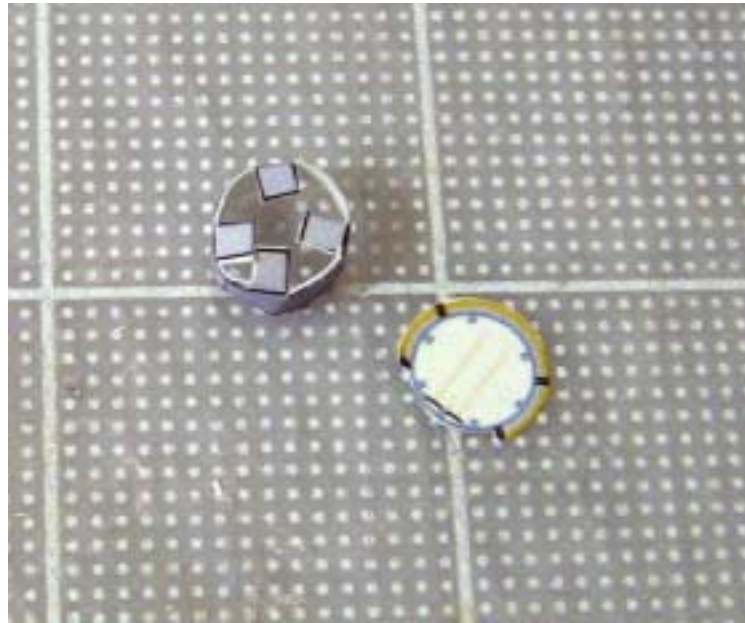


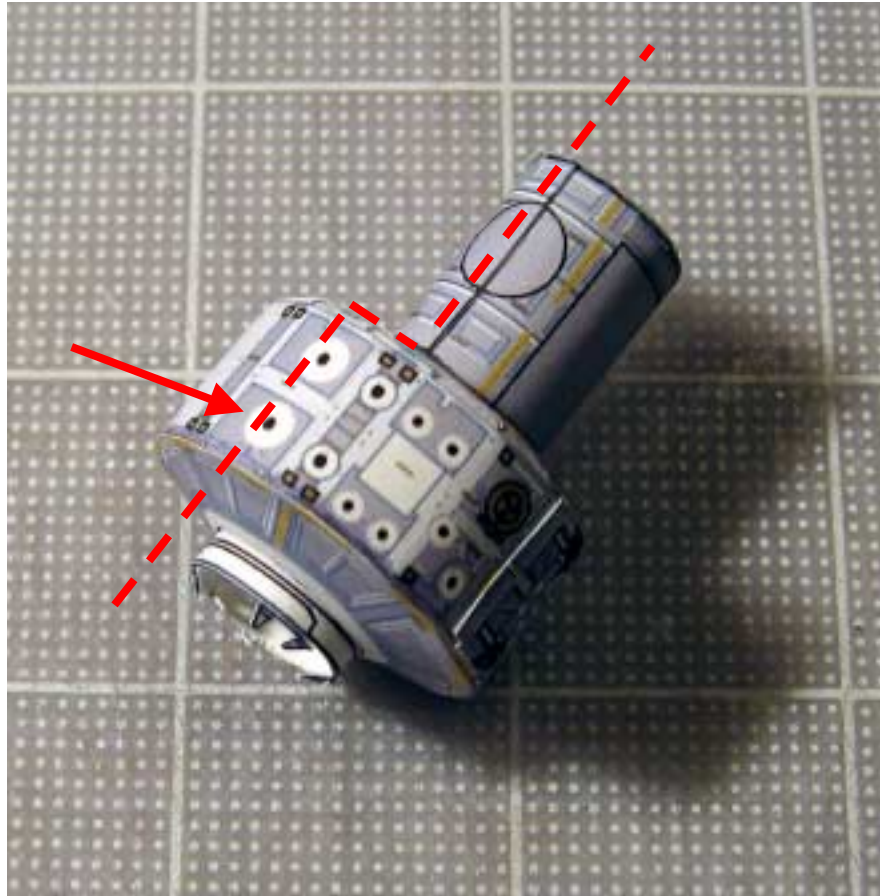
This photo shows parts of “Quest” Space Station version. The numbers 1-4 indicate where the O₂ and N₂ tanks are placed. Notice that the circular end that has the handrails will face forward, and the one without handrails (arrow) will face aft.



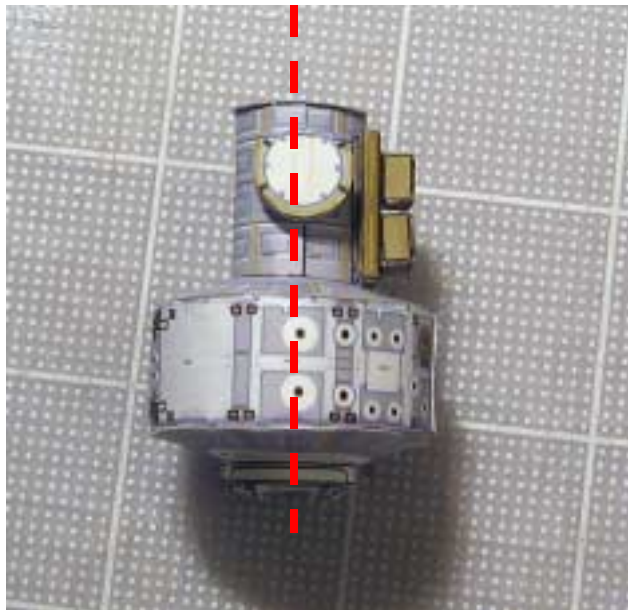
Airlock
compartments:

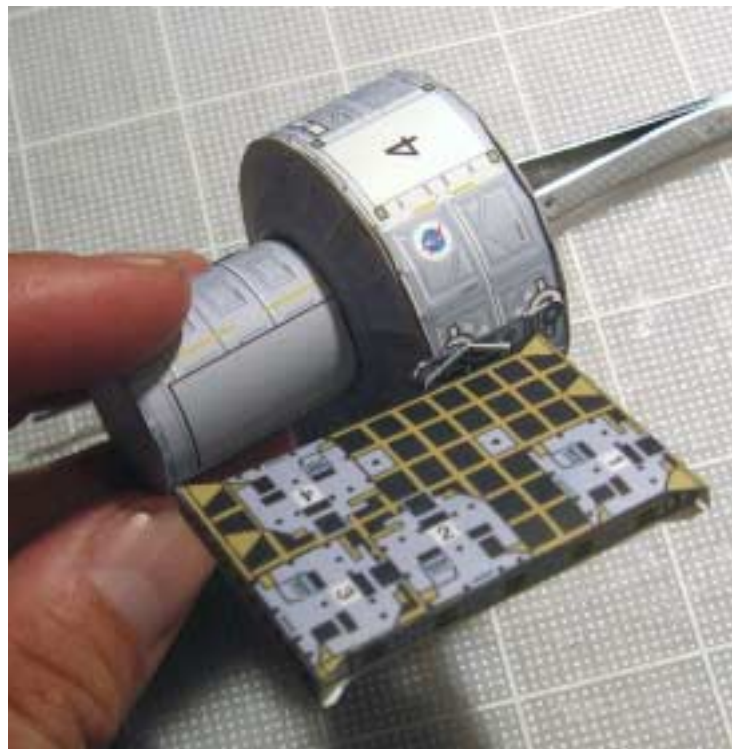
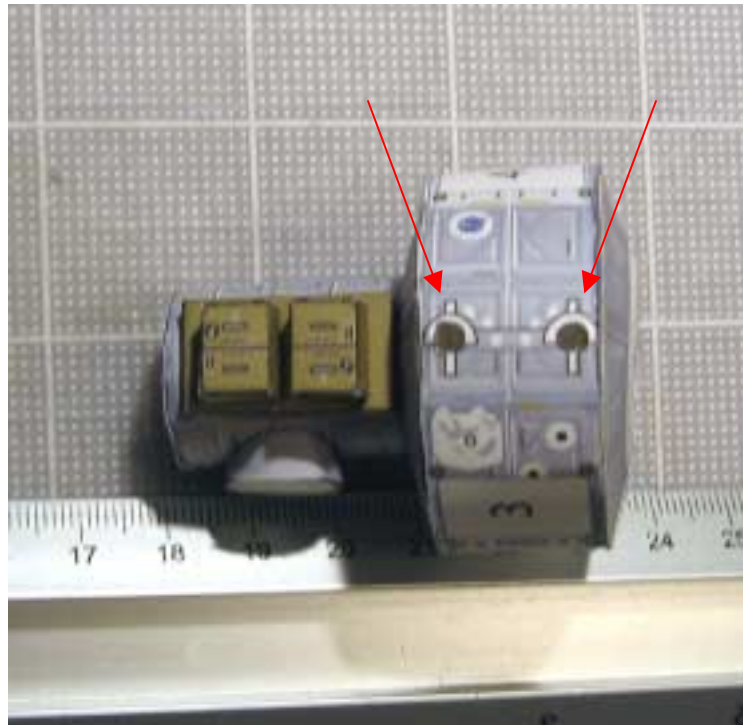
- A) Equipment lock
- B) Crew lock
- C) Toolboxes
- D) EVA hatch





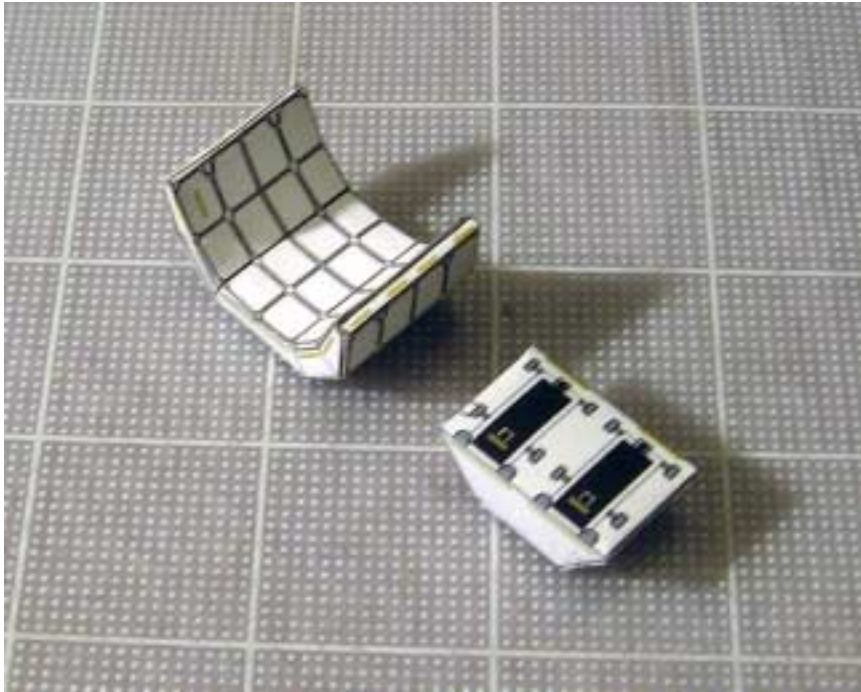
Note that the airlock tunnel has to be centered with the big white circles when gluing both pieces.



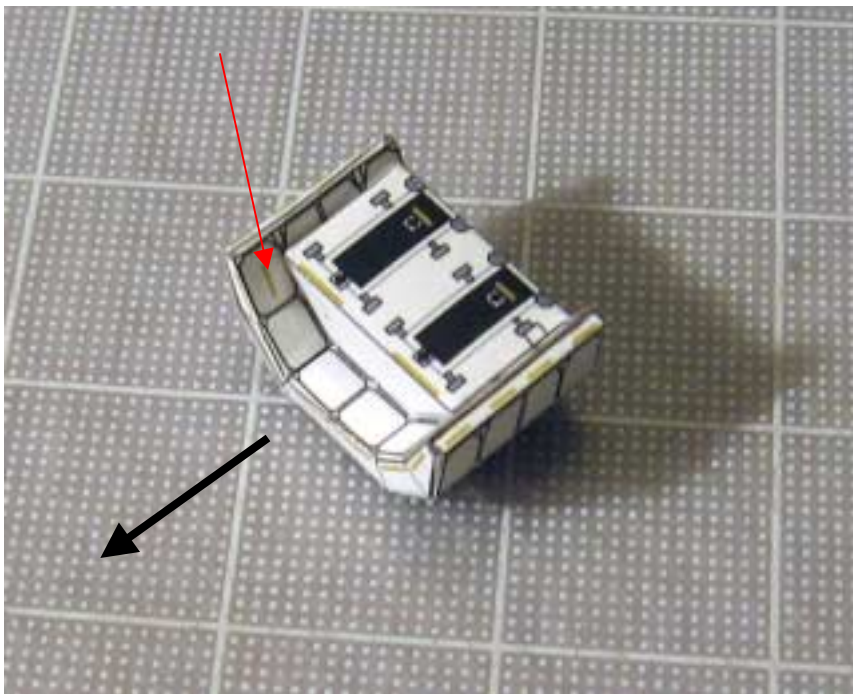


In preparation to add the ESP-2 (External Stowage Platform-2) from mission STS-114, two holes have to be made as photo shows.

Spacelab Cradle



The Spacelab Cradle (left) has a support structure (right) for the O₂ and N₂ tanks



Notice the position of the support structure in relation with the cradle. The handrails (red arrow) need to face forward in the payload bay.



This is a draft model of a tank. For the final design, each tank has an identification number (seen with a magnifying glass). For the 1:100 scale model of the tank, the numbering is better visualized.

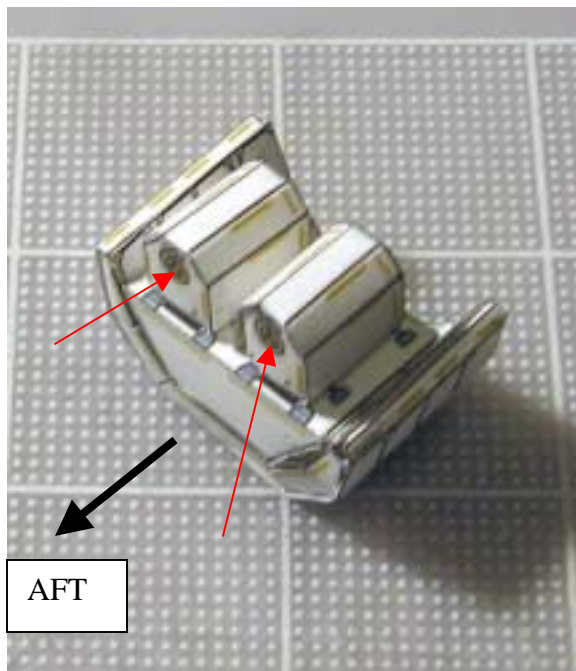
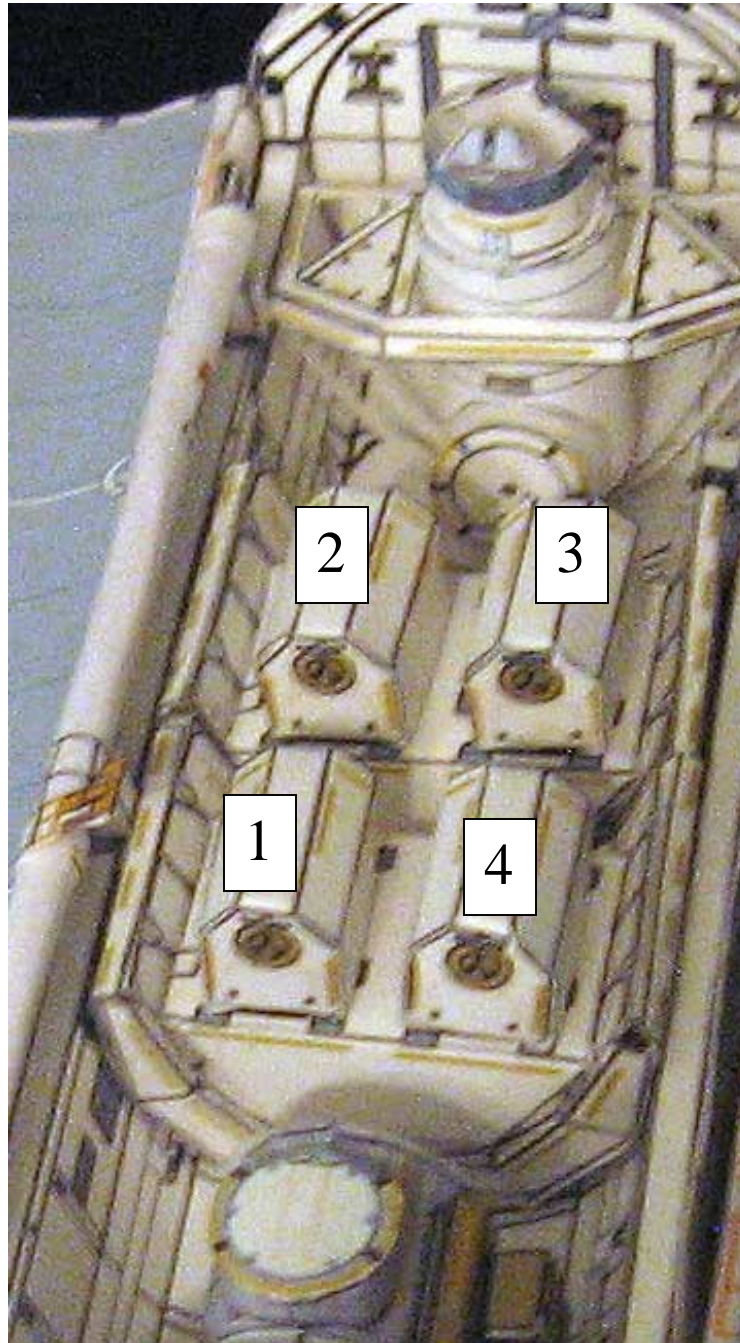


Photo shows how the tanks are positioned on top of the cradle in the payload bay. The side of the tank that has the Grapple fixture will face aft in the payload bay. (red arrows)



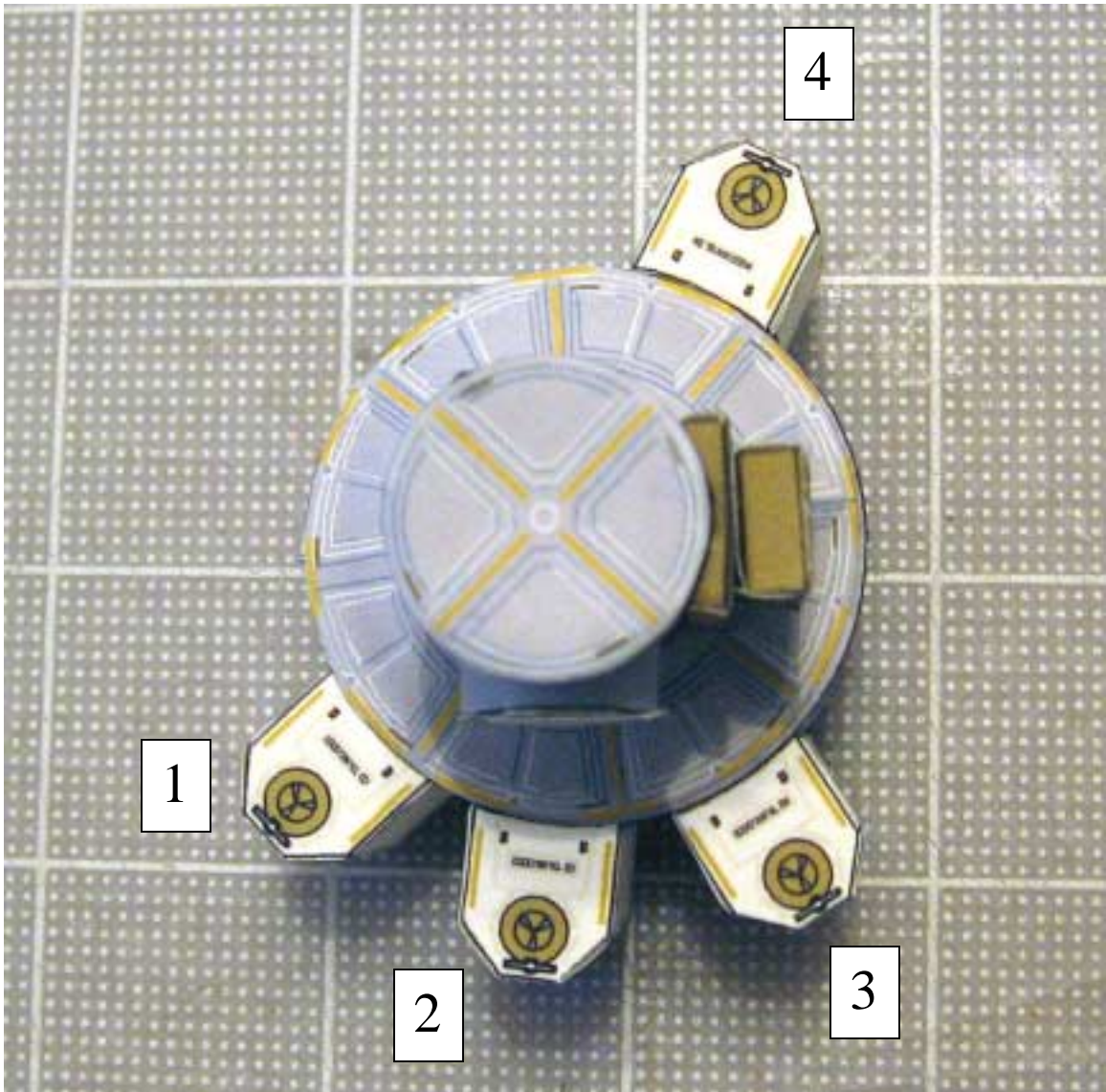
Tank Positions in the payload bay:

1) O2 Tank 0001

2) O2 Tank 0002

3) N2 Tank 0003

4) N2 Tank 0004



Tank Positions in “Quest” Airlock:

1) O2 Tank 0001

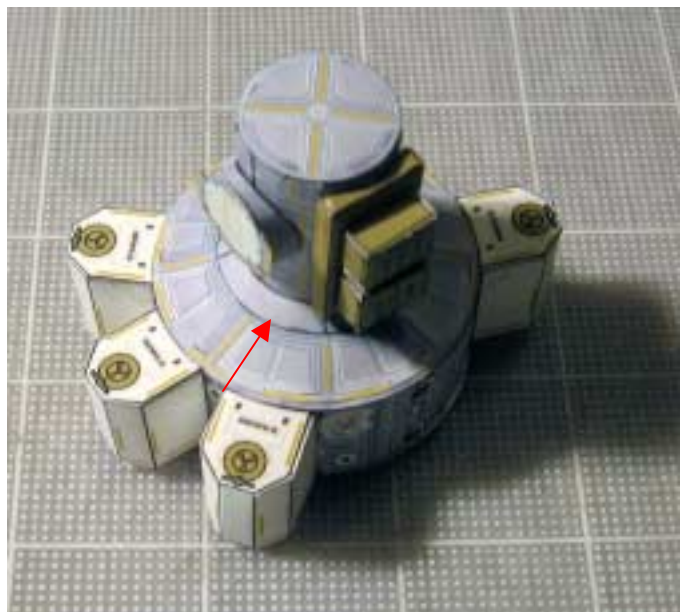
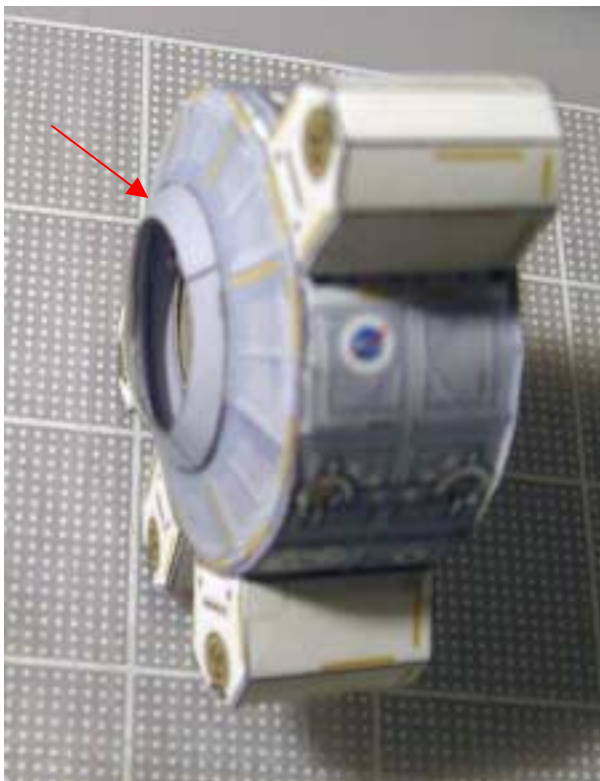
2) O2 Tank 0002

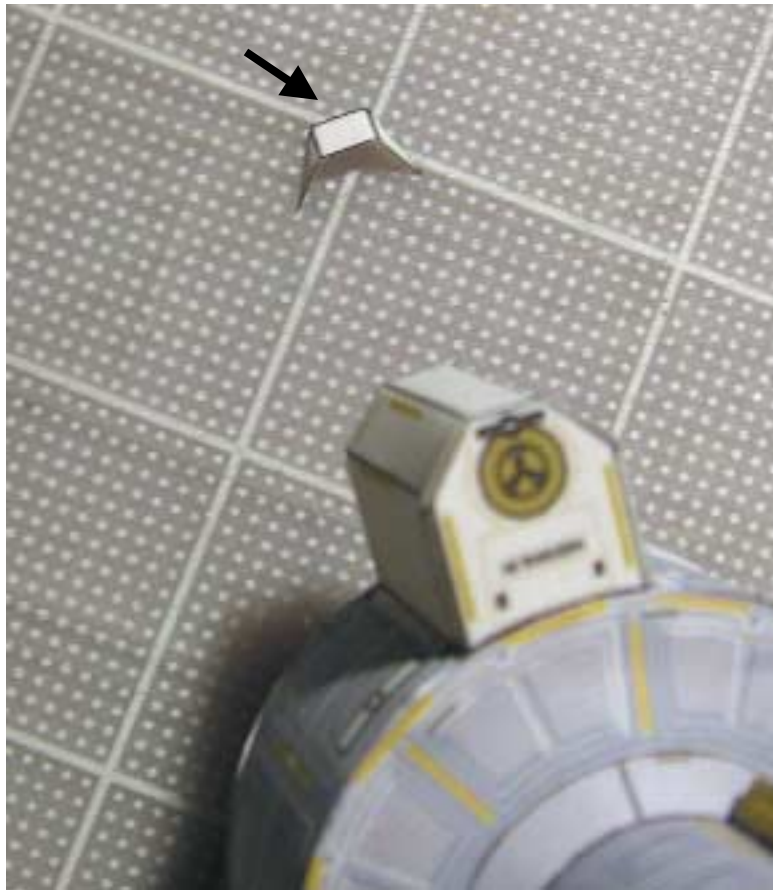
3) N2 Tank 0003

4) N2 Tank 0004

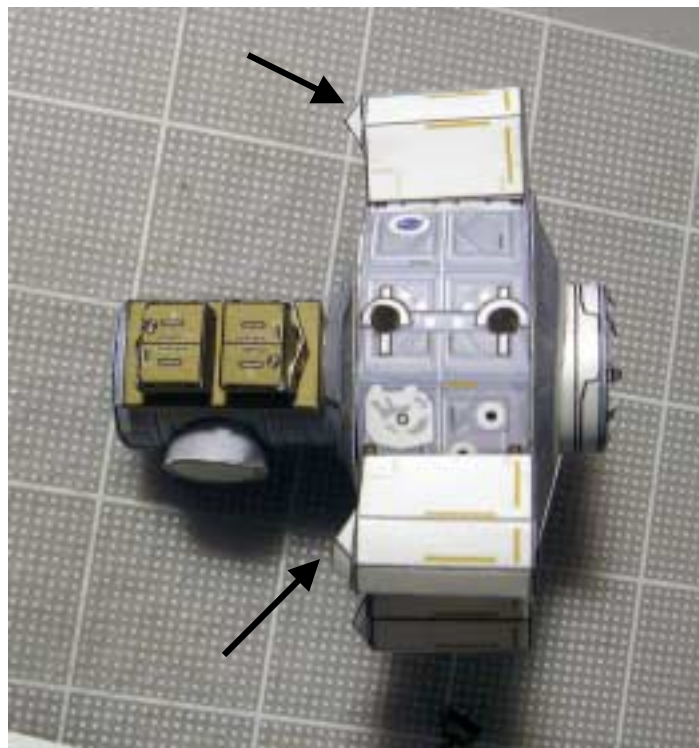


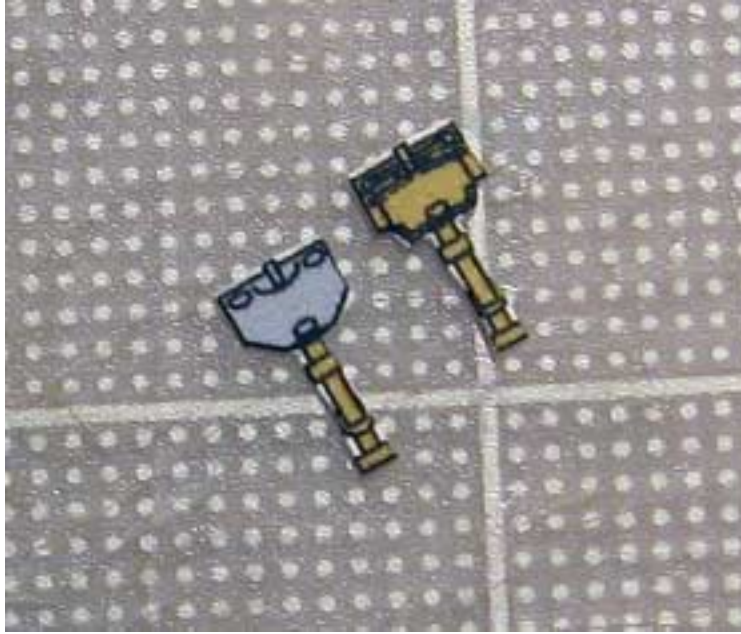
This part is only used for the 1:100 scale model of “Quest”. The 1:144 scale model has not been designed with this part due to its size. Photos below show where is placed.



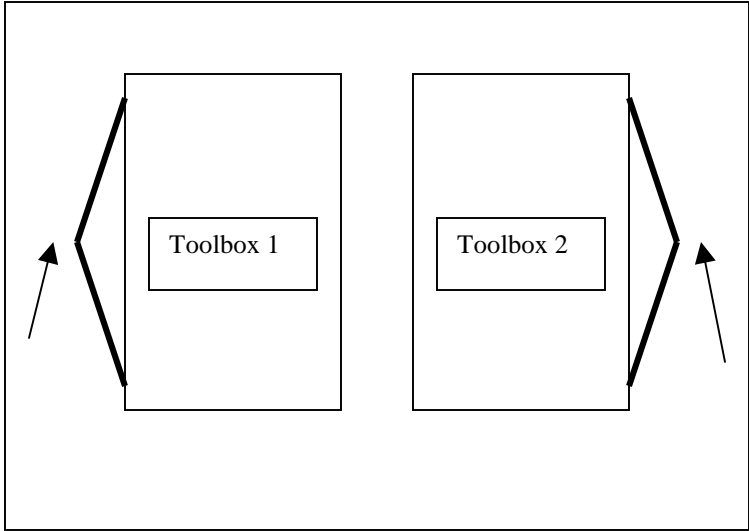


An extra part is added to the space station version of this model. The arrow points to this small “cover” that is glued above the grapple fixture drawing on the tank.

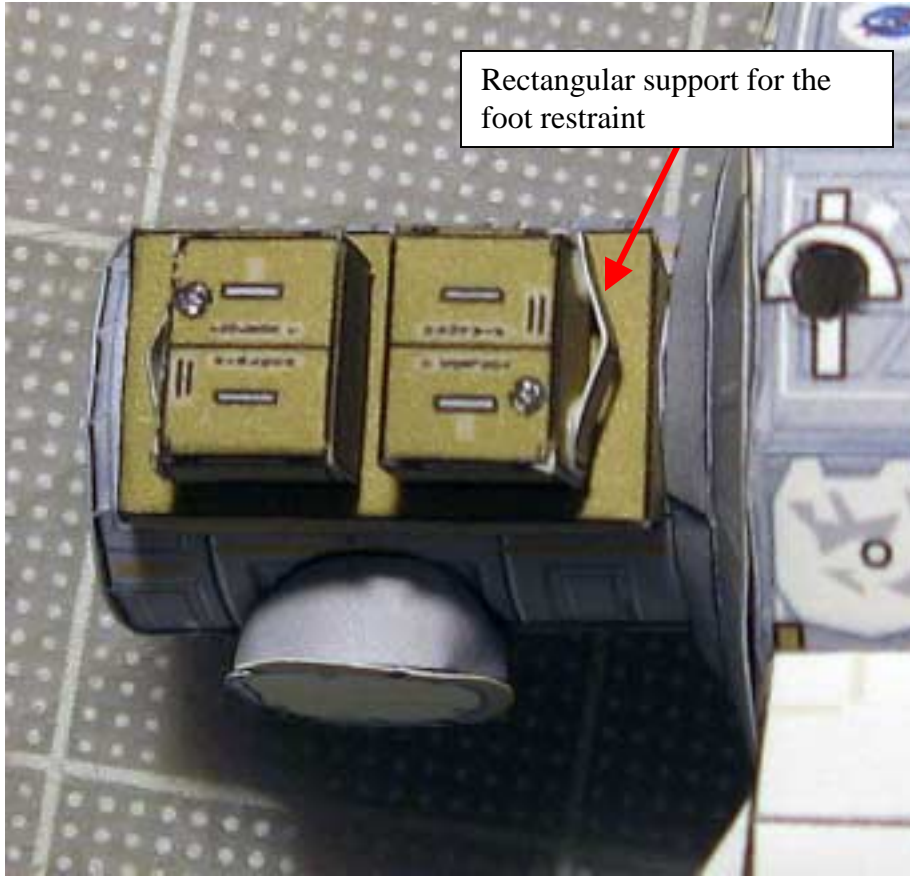




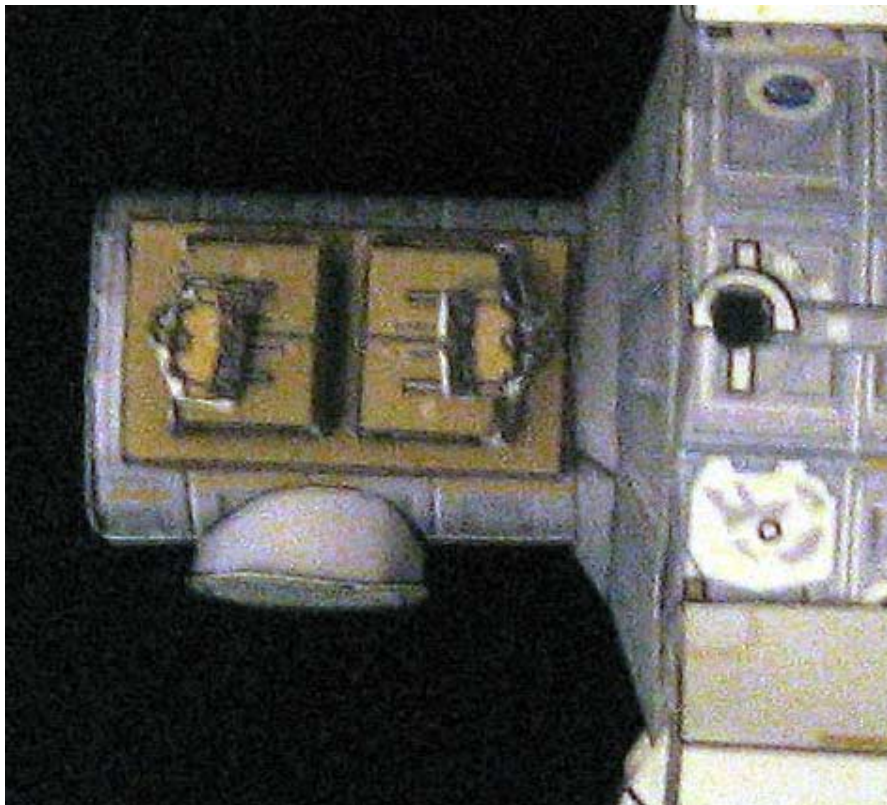
A pair of foot restraints is added to this model for more realism. This photo shows the reverse and front of the foot restraint. The diagram below explains how the foot restraint parts are placed on the model.

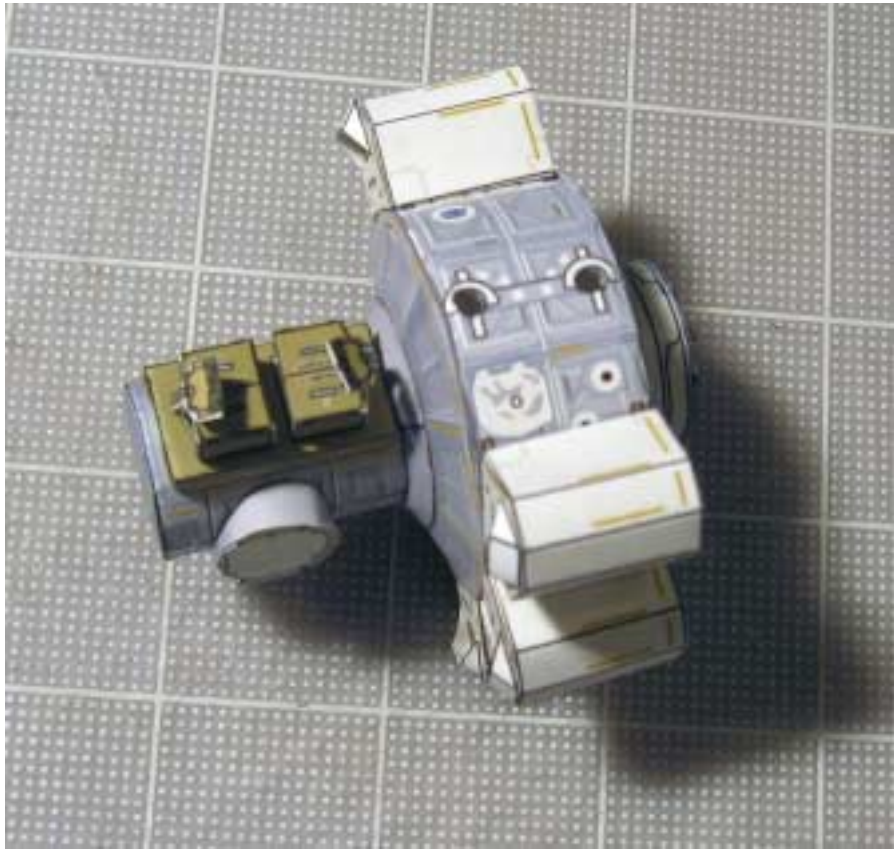


Foot restraints are glued to the area where the arrow indicates.



Rectangular support for the foot restraint



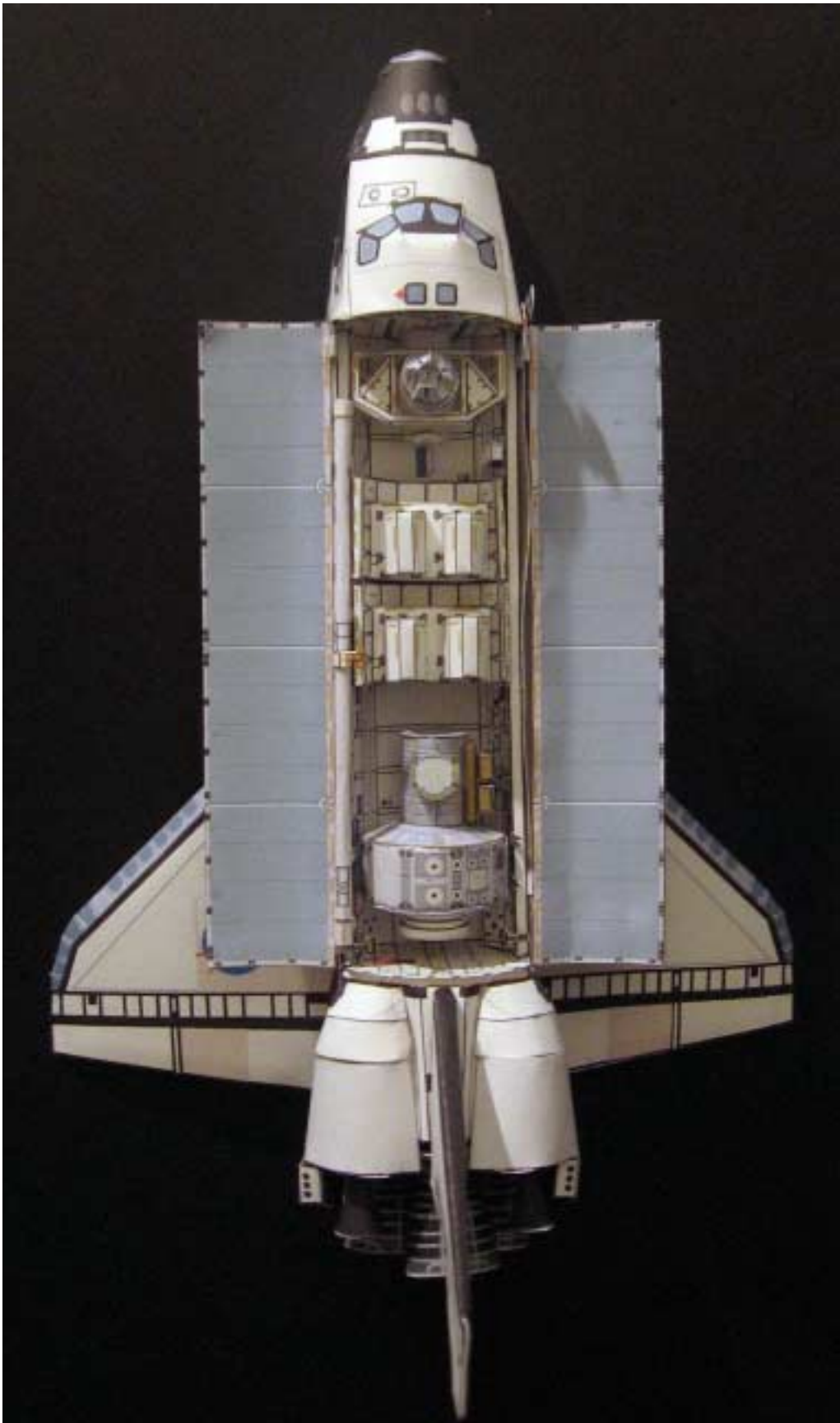


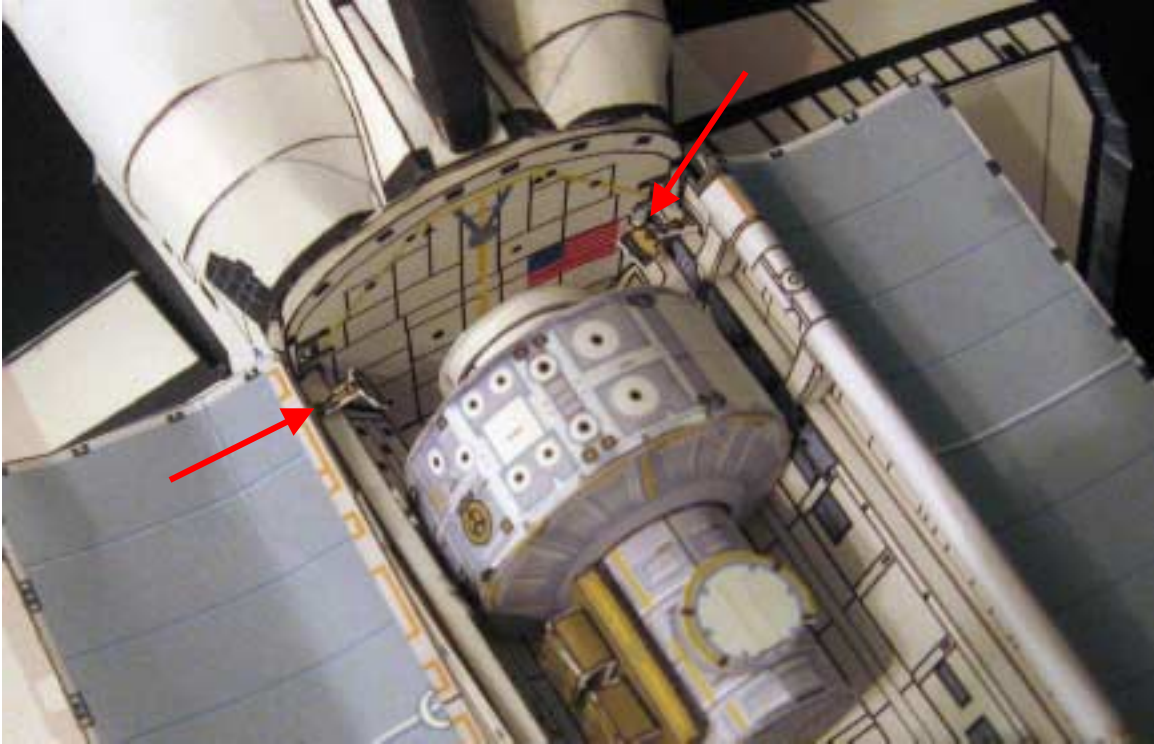


Note location of KU-band antenna that is glued on the tab from the right payload bay door.

REFERENCE PHOTOS



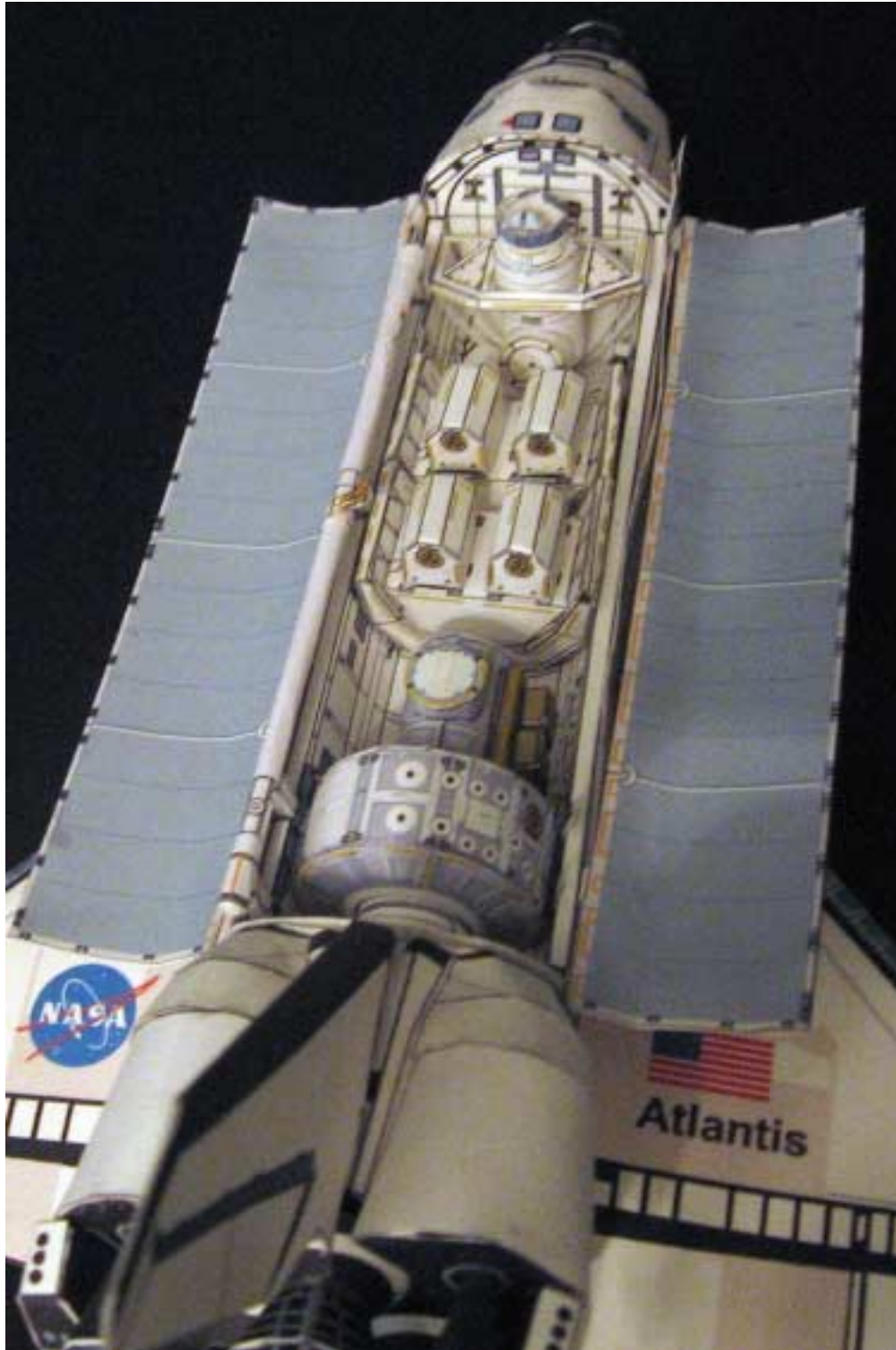




Note the foot restraints for the payload bay model (arrows)



The IMAX 3D camera (arrow)



Enjoy!

<http://www.axmpaperspacescalemodels.com>