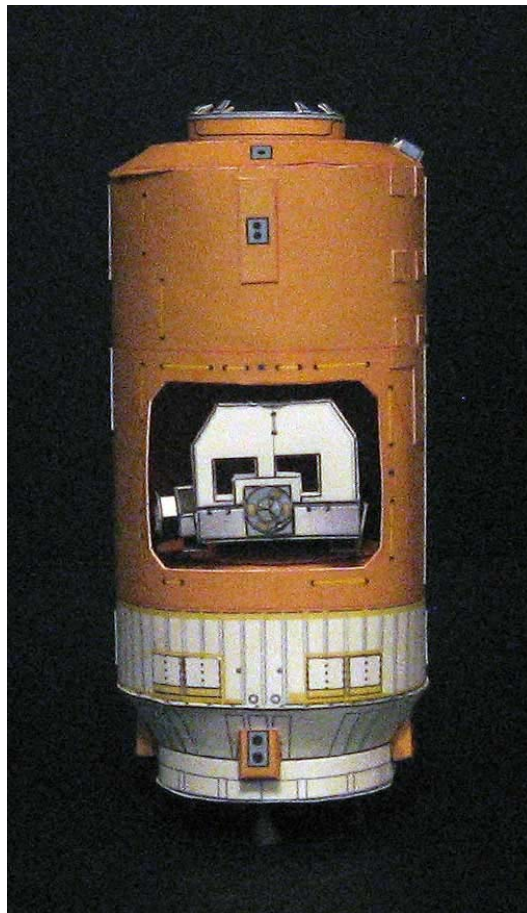




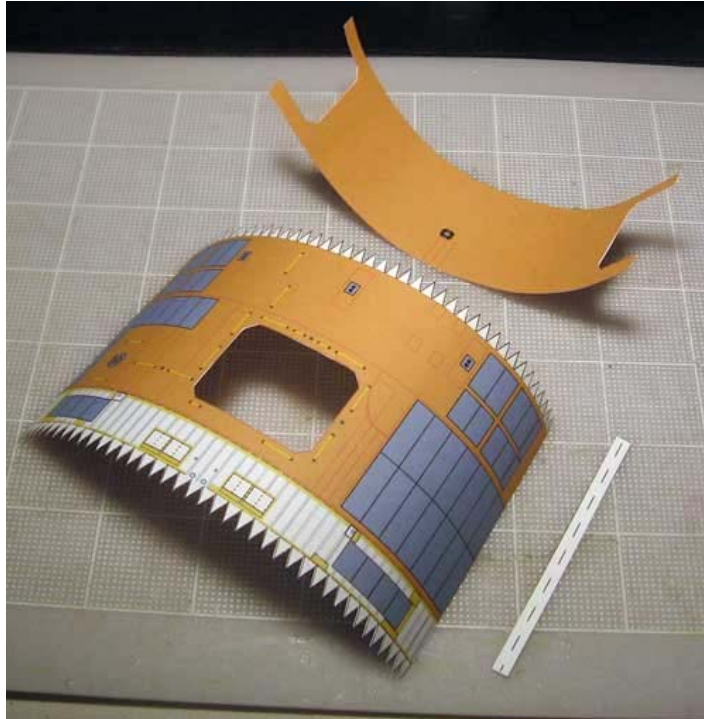
© 2009

## Assembly Instructions for the **HTV** (H-II Transfer Vehicle)

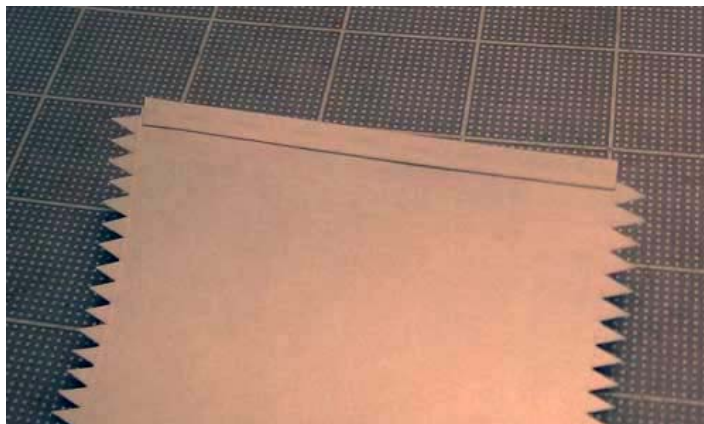


All photos shown on this document correspond to the 1:100 scale version of the HTV.  
The model used for this presentation is a draft version of the product and lacks details compared to the final product.

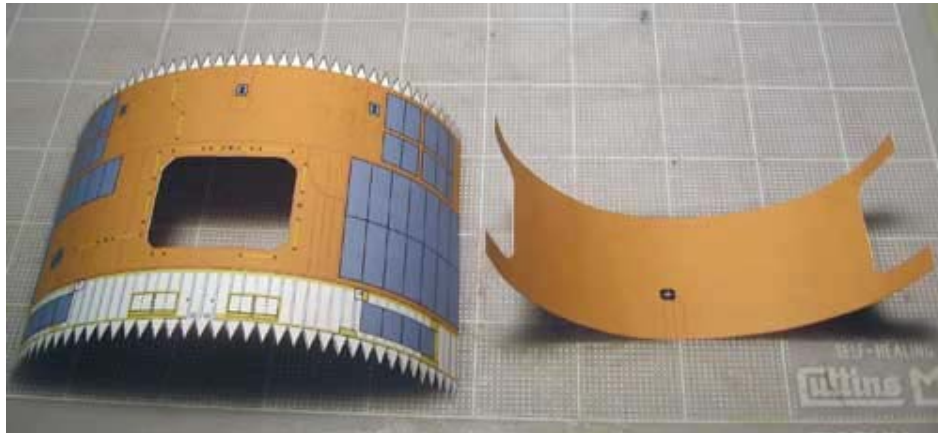
### **Building the main body (pressurized and unpressurized sections)**



All these parts need to be curved before gluing them together.



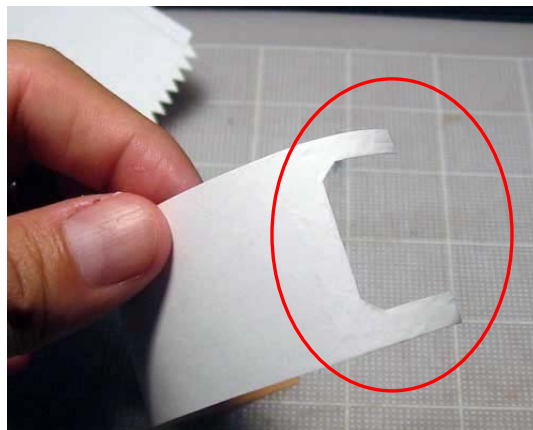
Glue the tab on one side.



Check the position of the parts before gluing



Turn the main body upside down in preparation to glue the inner part.

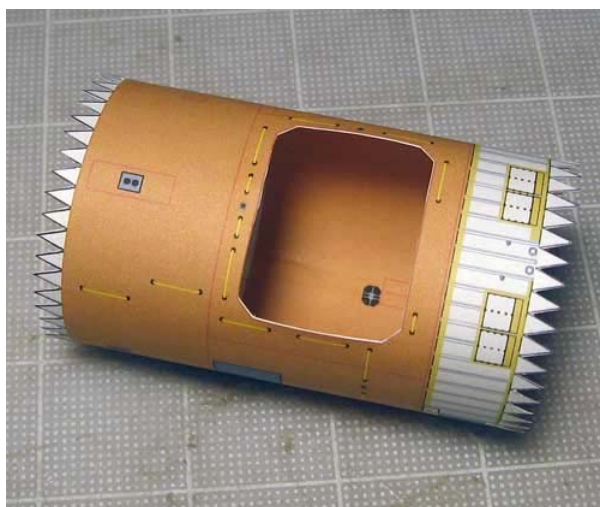
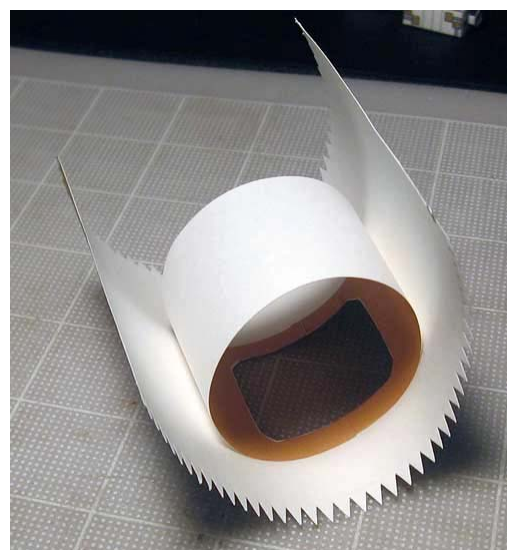
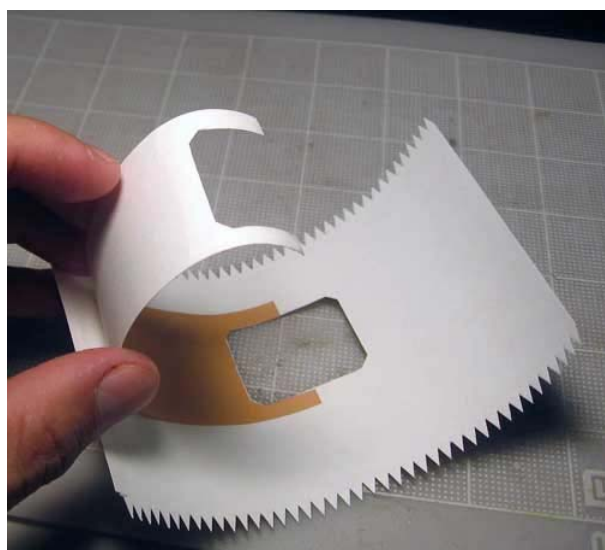


Put glue on this part

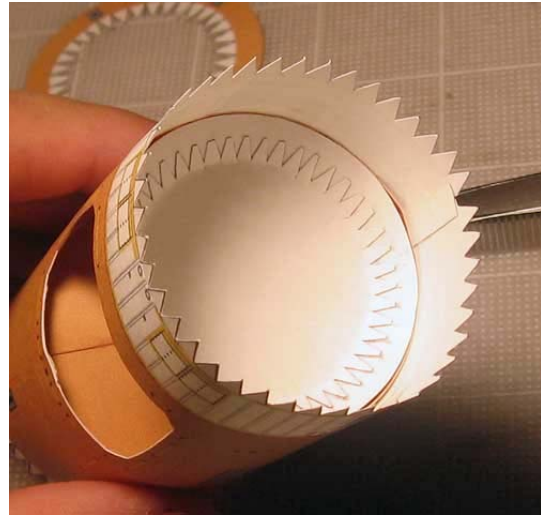
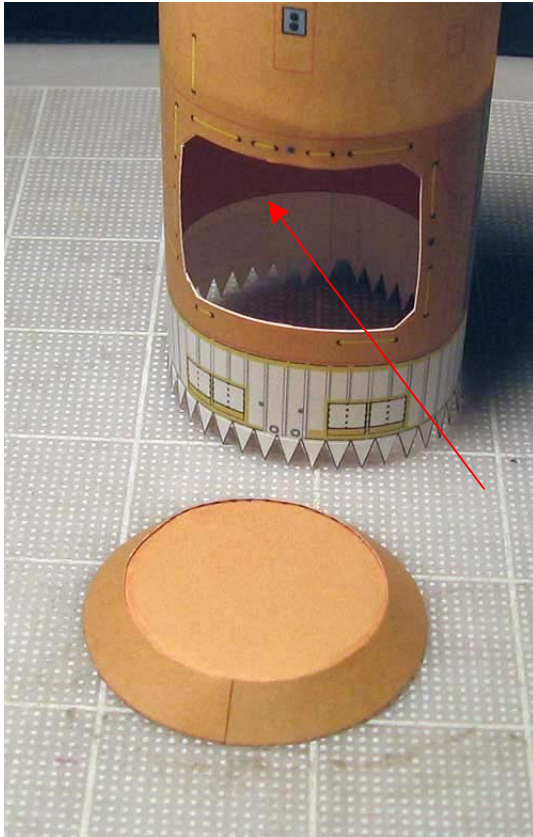




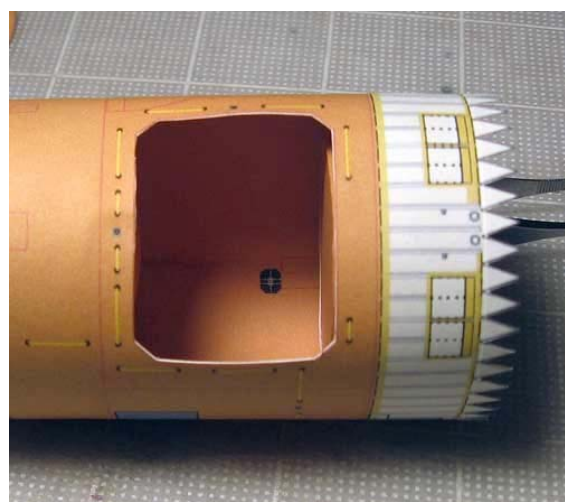
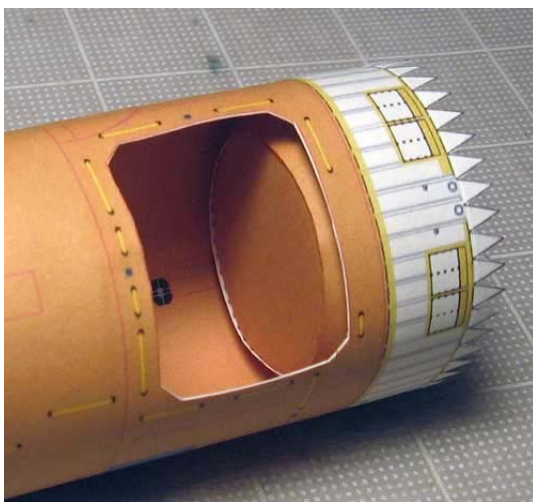
Glue as shown



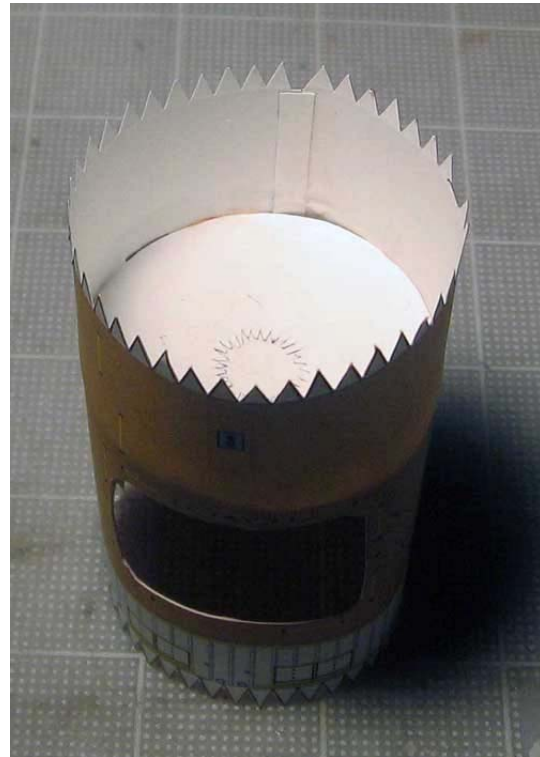
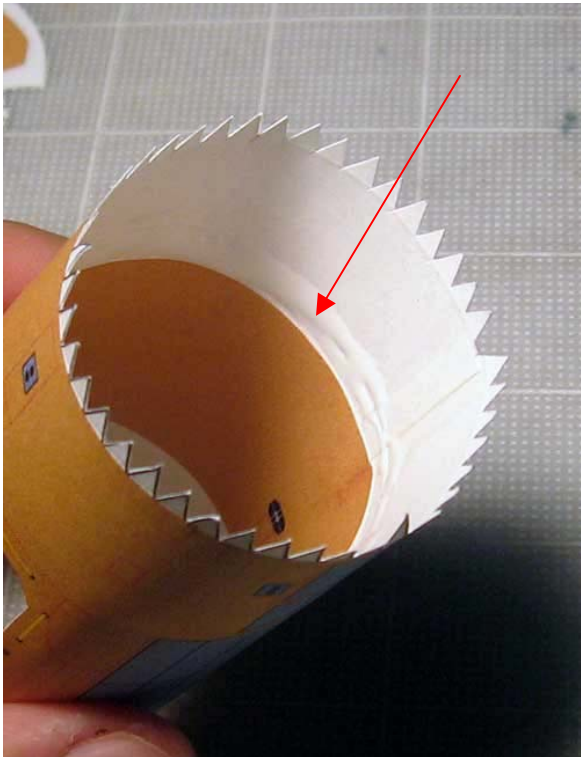
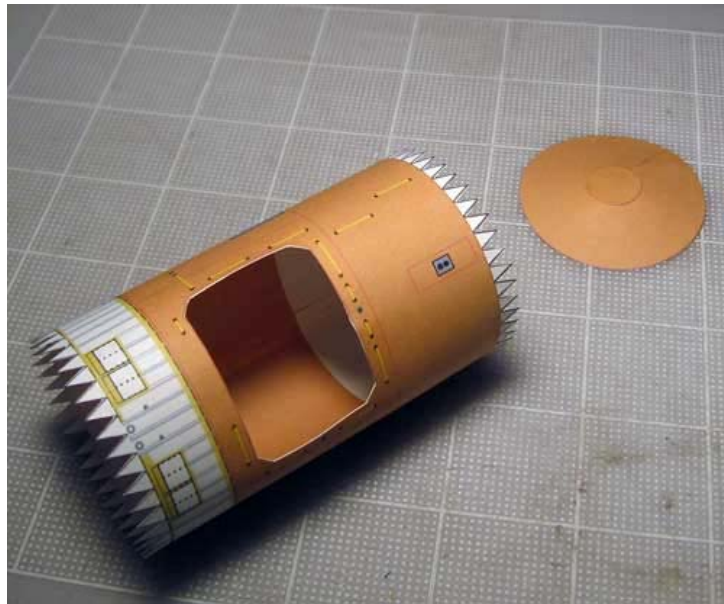
### Inserting the floor of the unpressurized compartment



The arrow shows where the floor is glued to the main body.

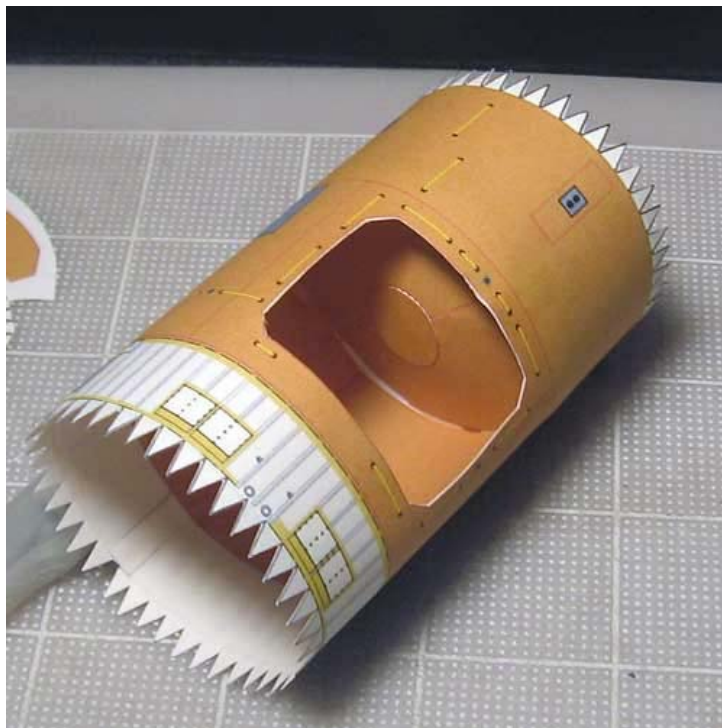


## Inserting the ceiling of the unpressurized compartment

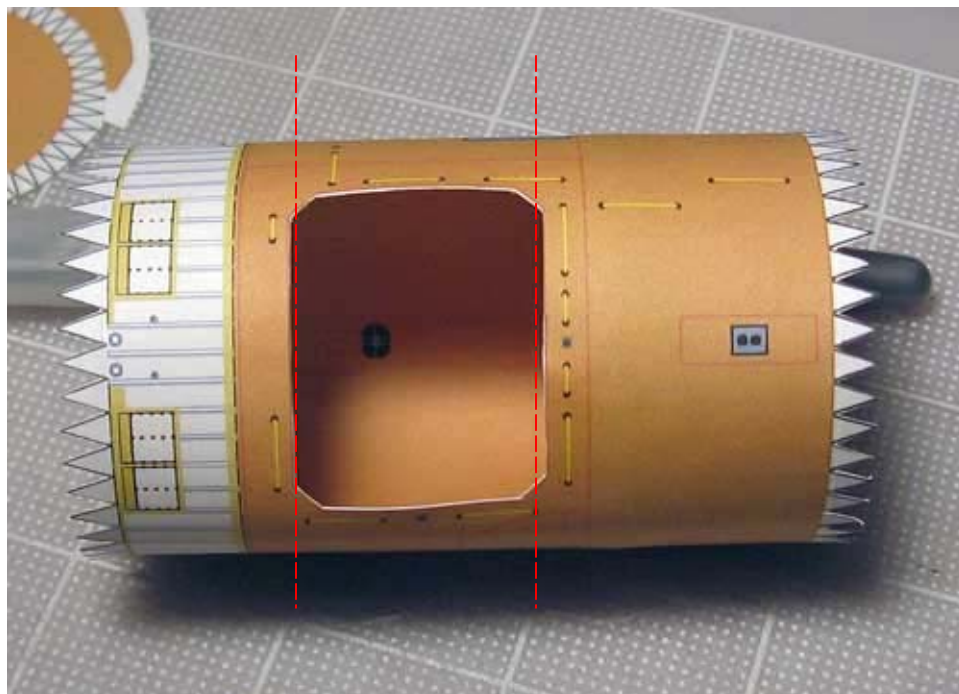


The arrow shows where to glue the ceiling part.





The ceiling is shown here.



Both the ceiling and the floor parts need to be at the same level of the large opening.

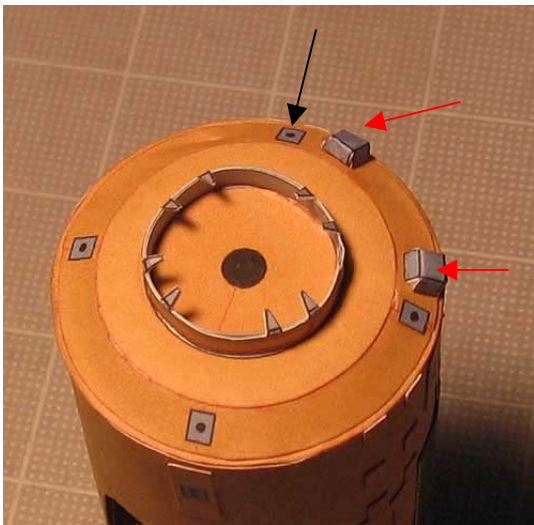
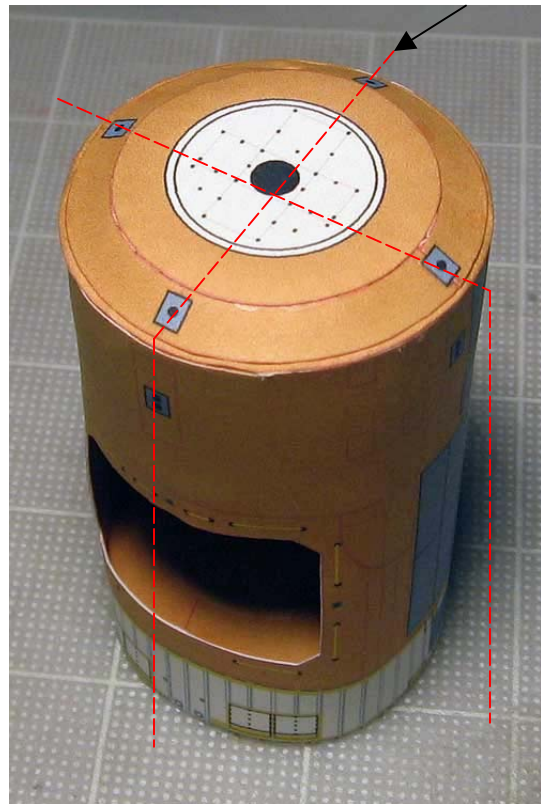
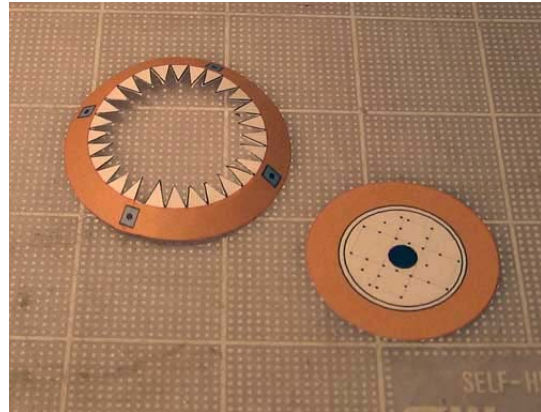
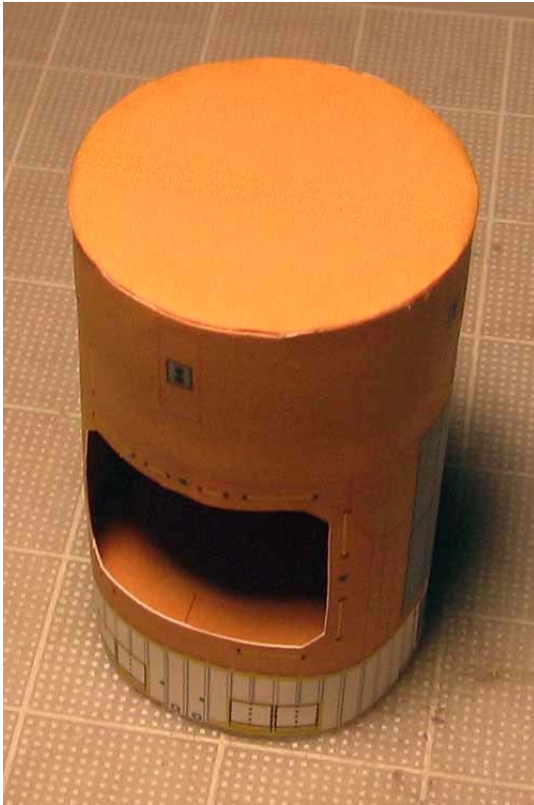
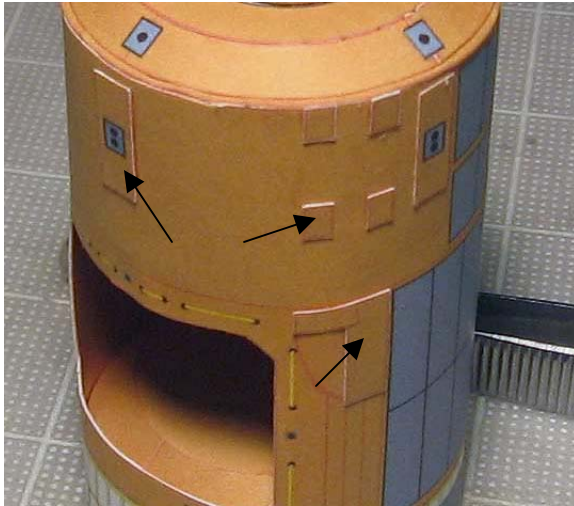


Photo shows how the final product will look. Note the location of the 2 small boxes.  
**Black arrow= seam**  
**Red arrows= boxes**

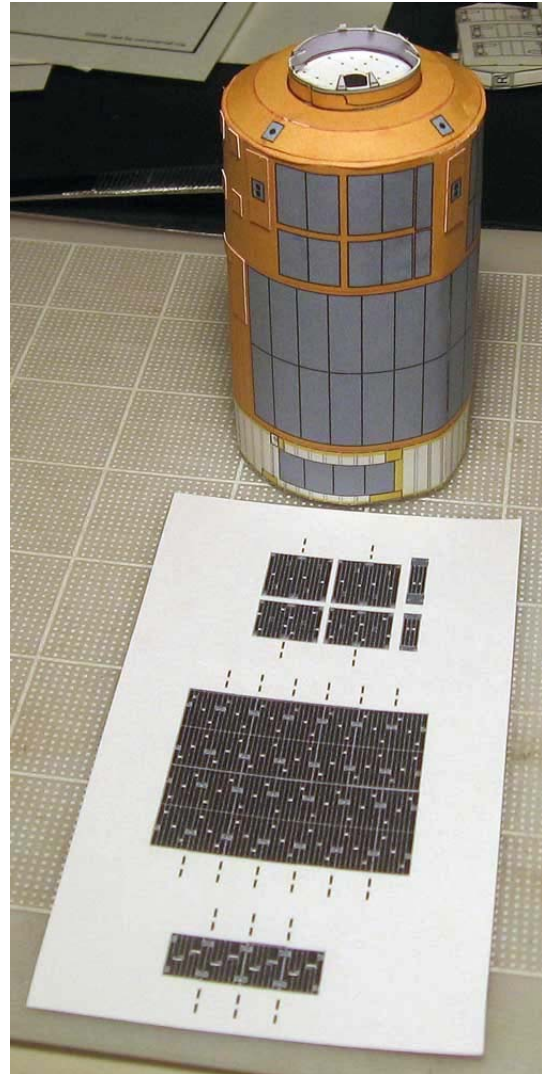
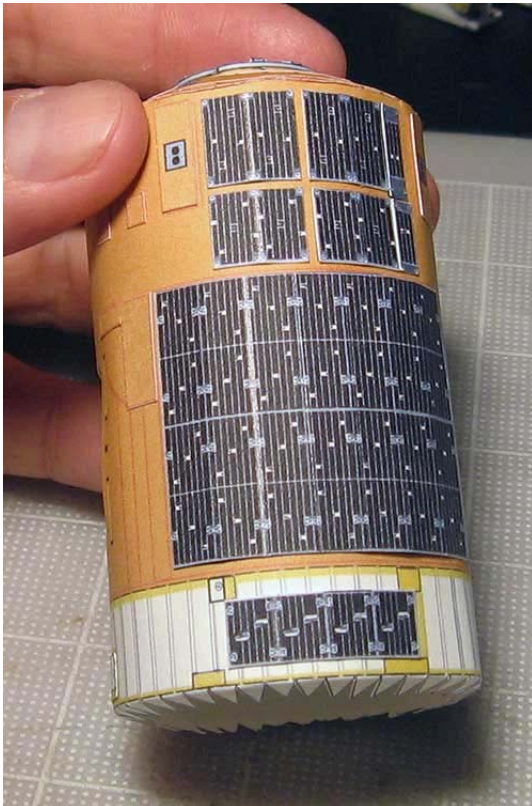
The 4 thrusters shown on top are oriented matching the thrusters on the side of the vehicle.  
**The black arrow indicates where the seam of the vehicle is located.**  
 This photo belongs to the draft model. The white circular hatch on top should be the same color as the vehicle.



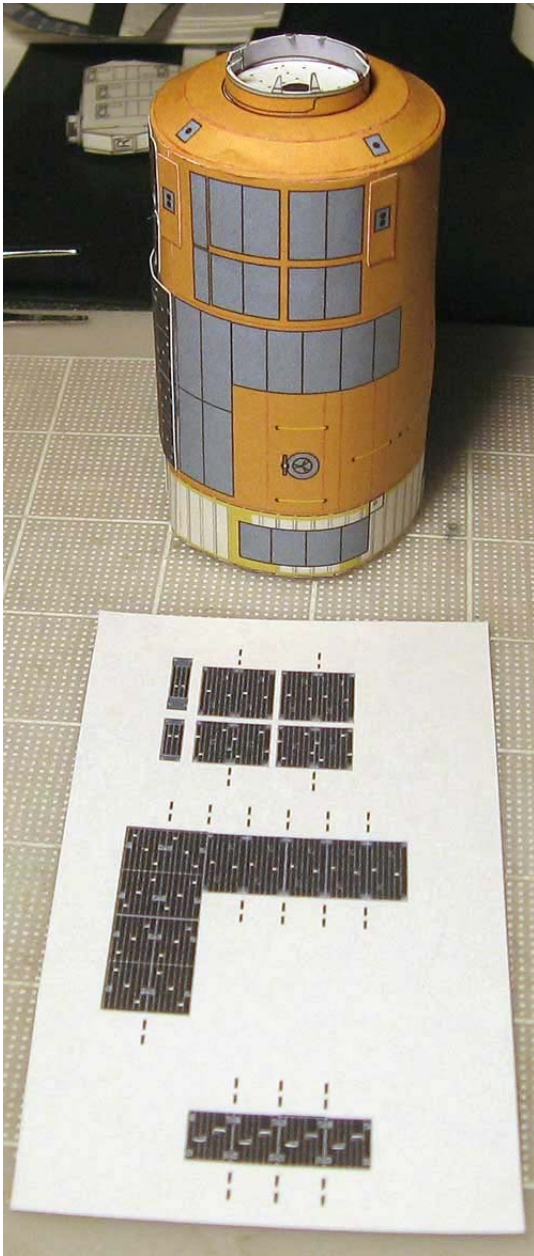
## Adding the Solar Array panels and more details



Add the details to the main body, including the rectangular thruster areas and few blankets.



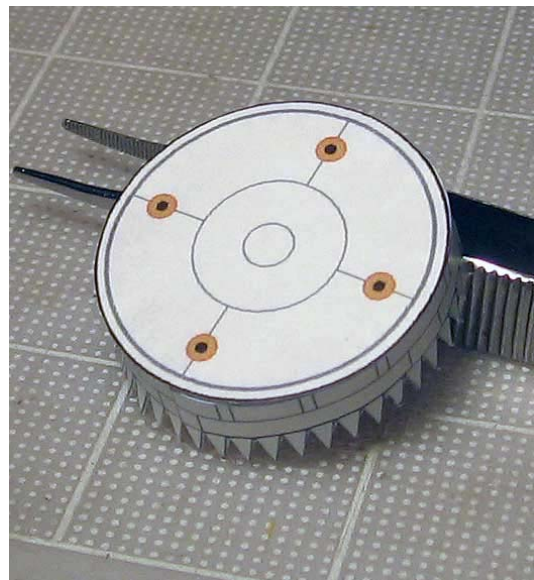
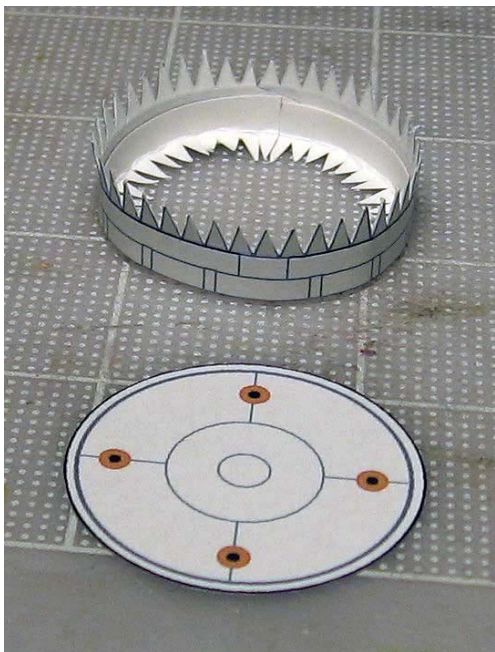
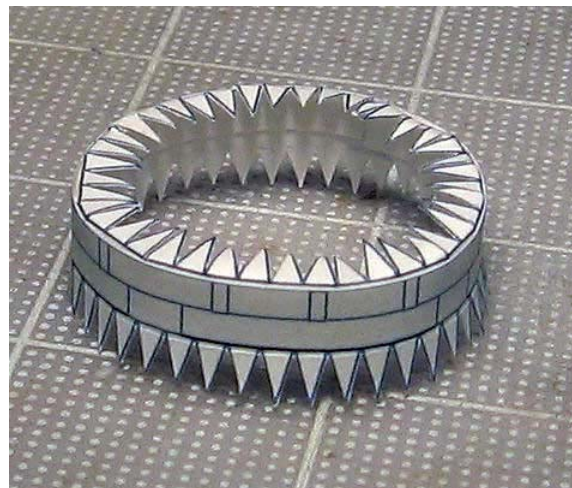
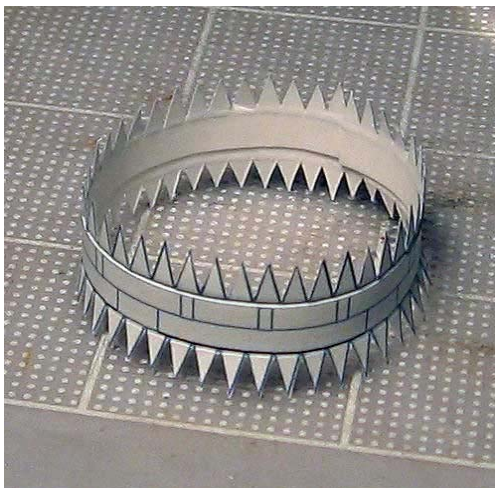
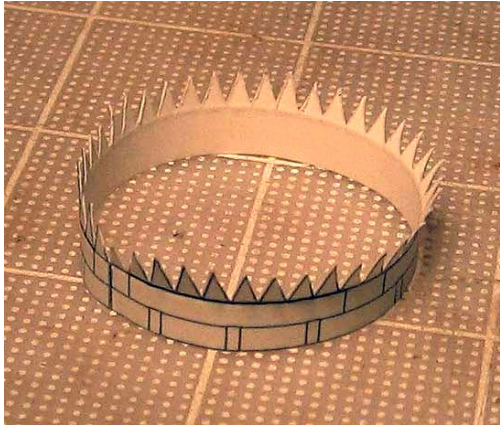
Before gluing the solar array panels, these need to be scored along the dashed lines shown here. Start with one side first and then move on to the other side of the vehicle to avoid confusion with the panels.



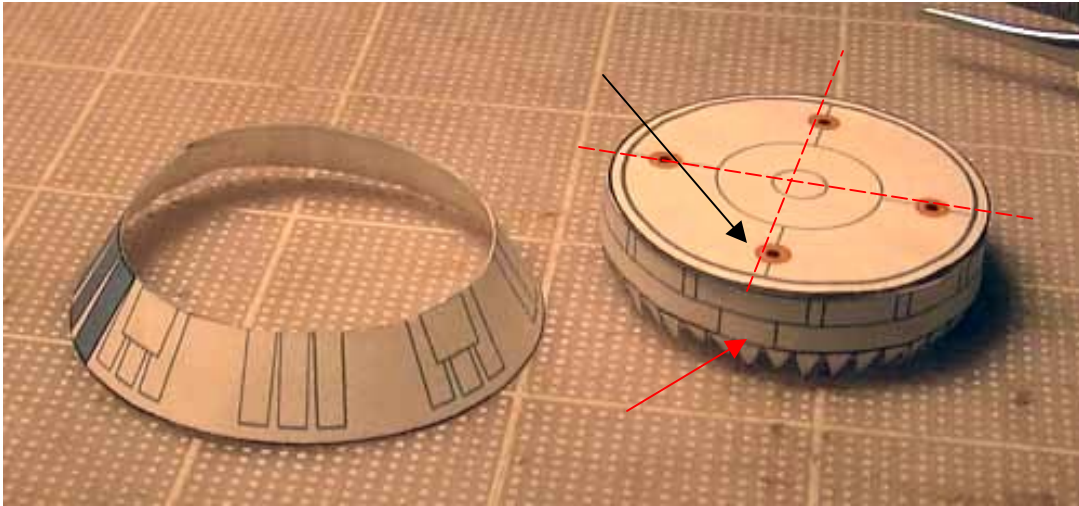
Use the white circular part to cover the bottom of the main body.



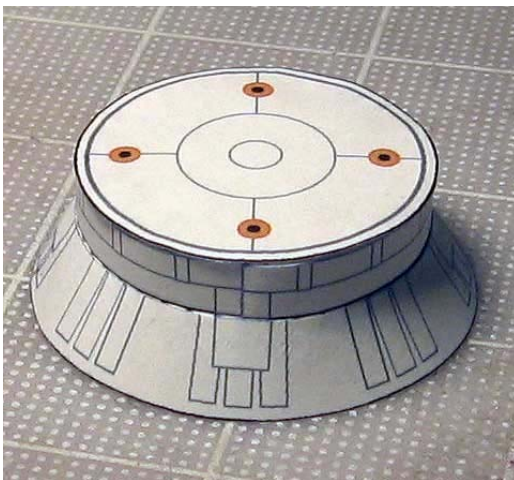
## Building the Propulsion section (bottom part of the vehicle)

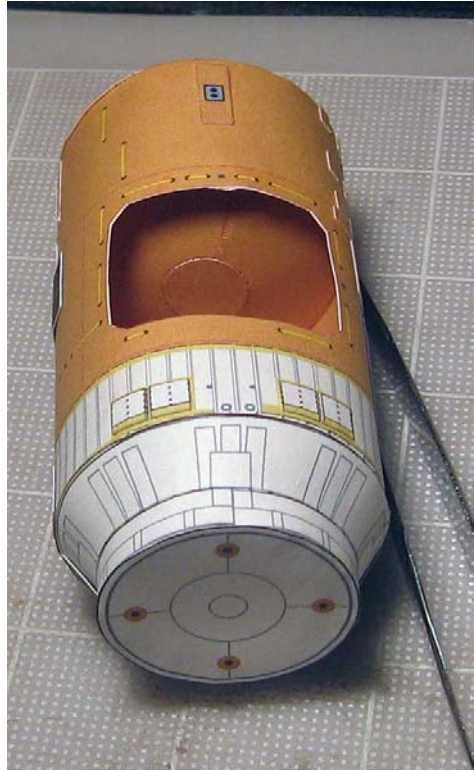






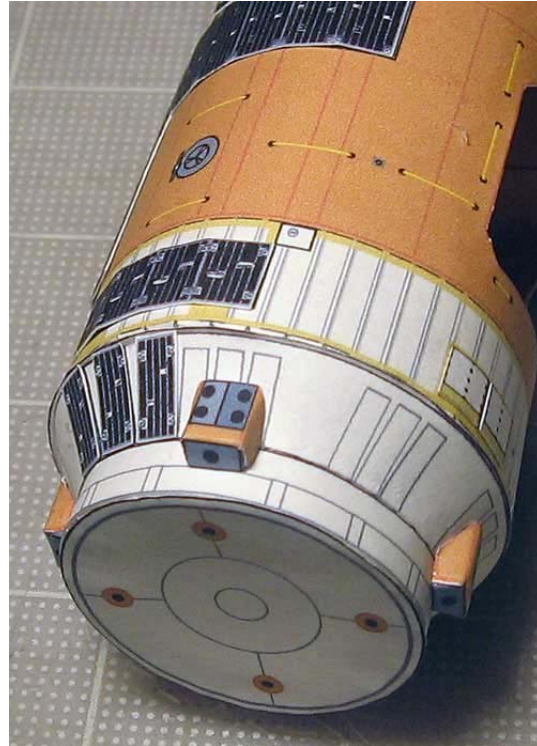
The small rectangular area indicated by the red arrow should be colored on the final model and is oriented with each of the circular thruster markings.



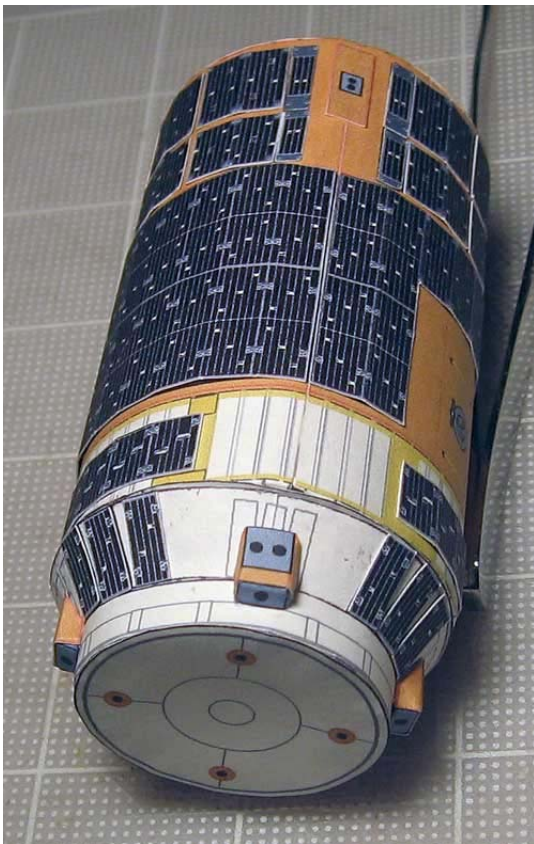




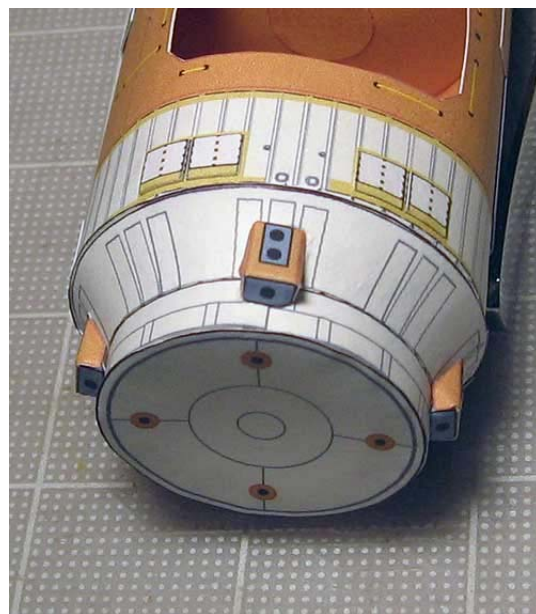
## Adding the side thrusters



Left and Right thrusters have 4 small black circles.



The Aft thruster has 2 horizontal black circles.



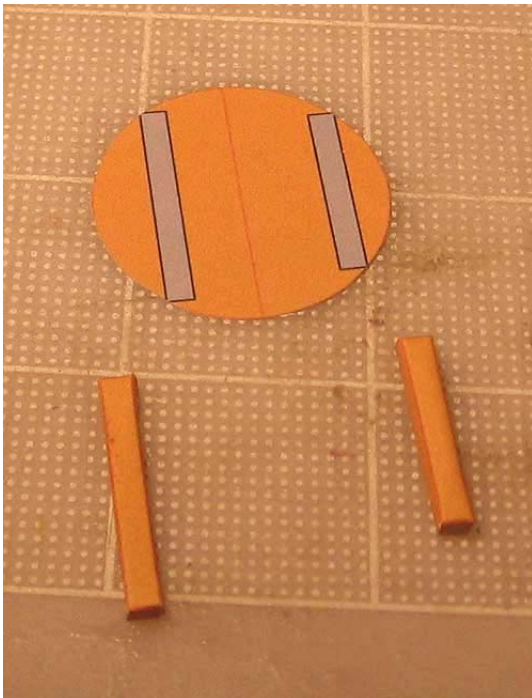
Front thruster has 2 vertical circles

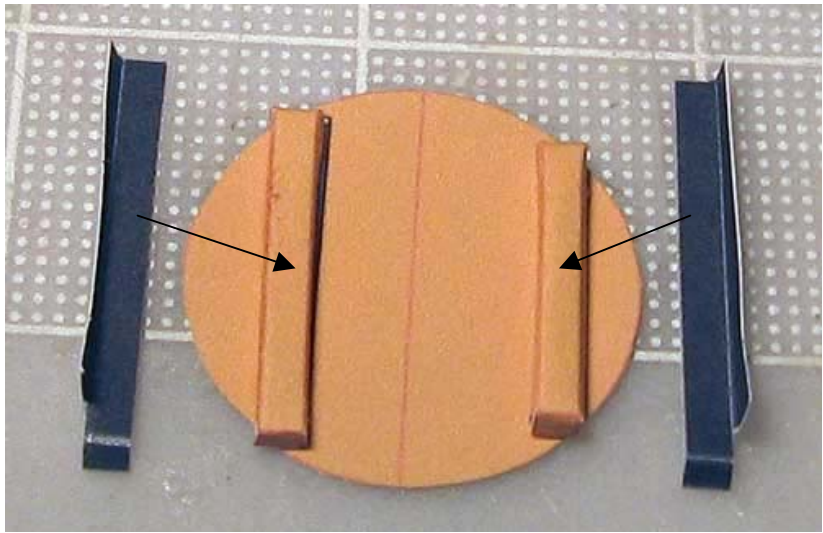
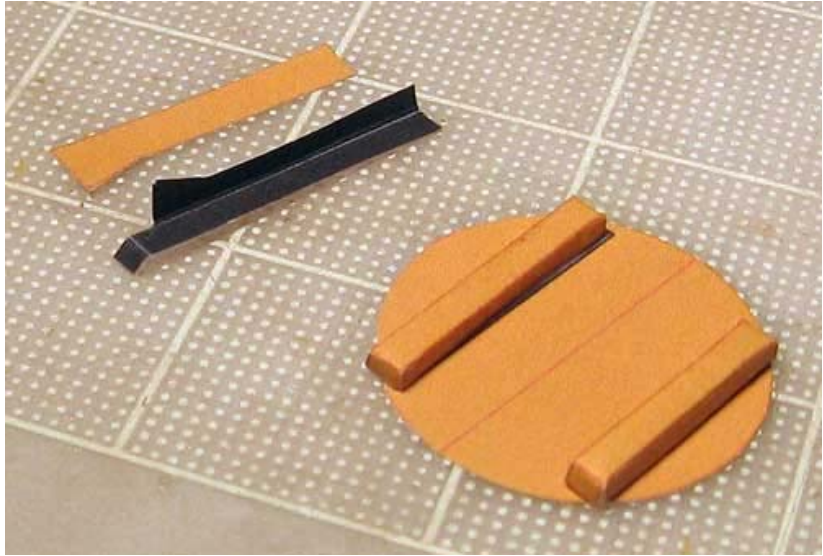




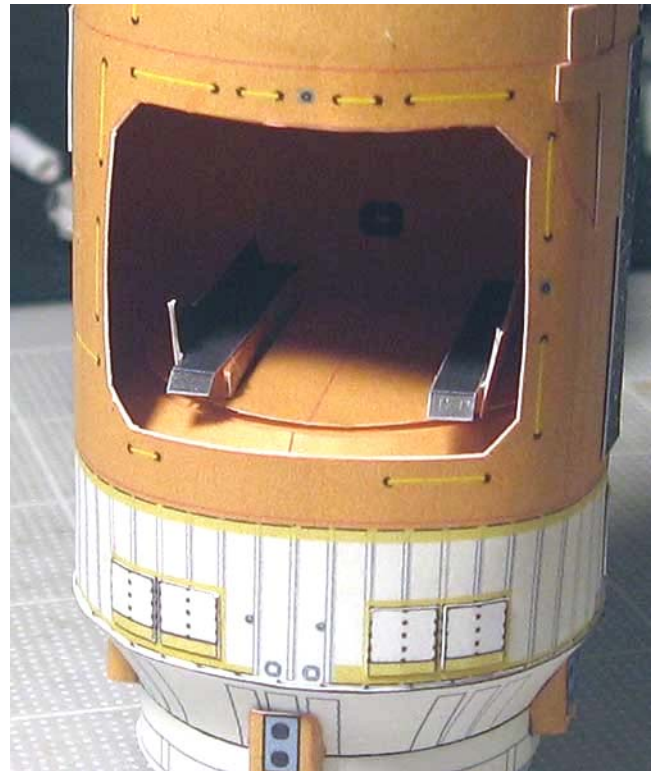
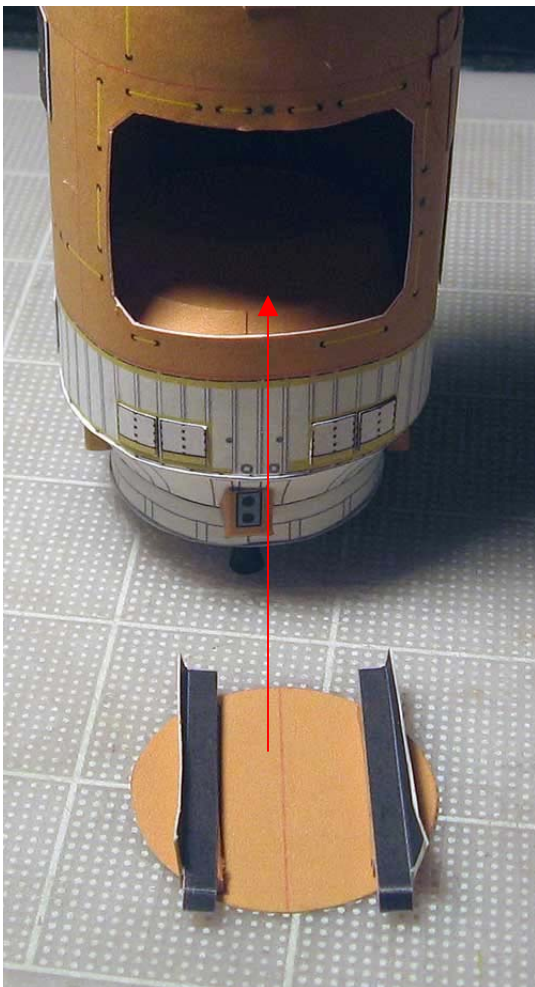
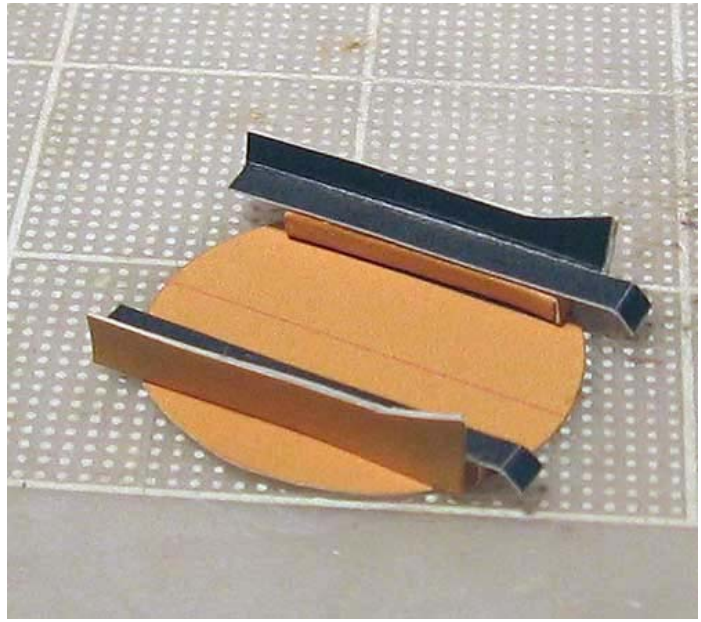
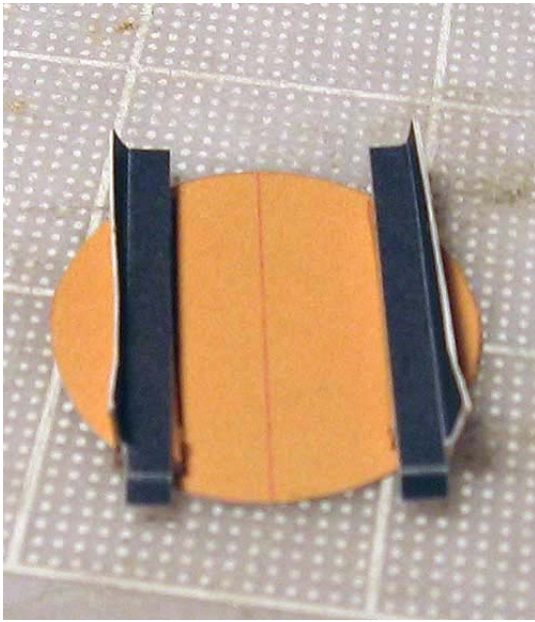
Place the 4 nozzles to the bottom of the vehicle.

### Building the Guide Rails for the Exposed Pallet

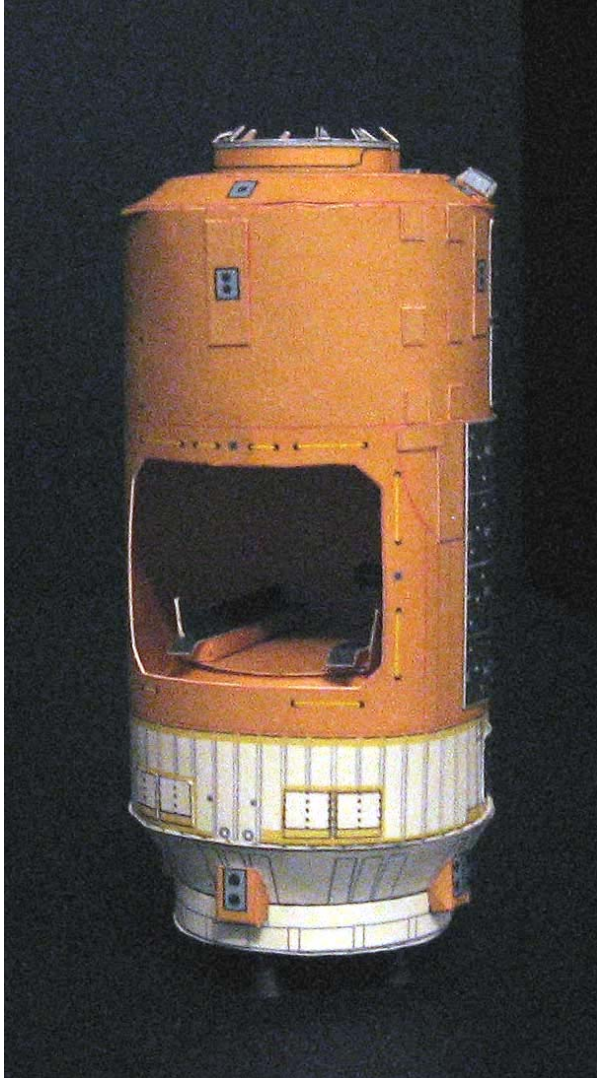






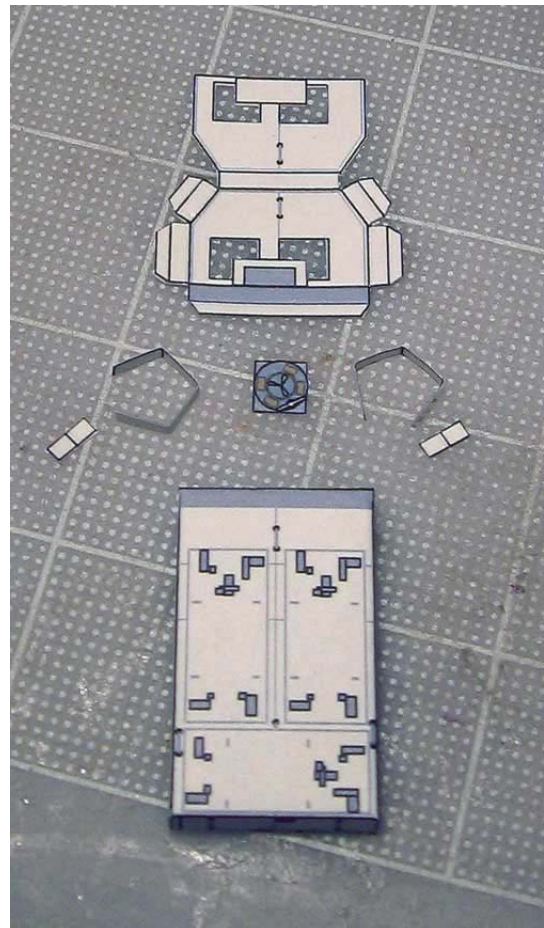


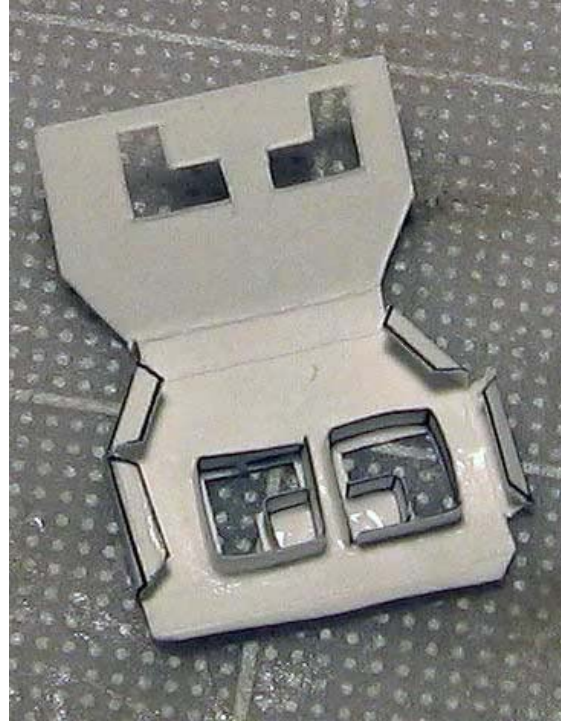




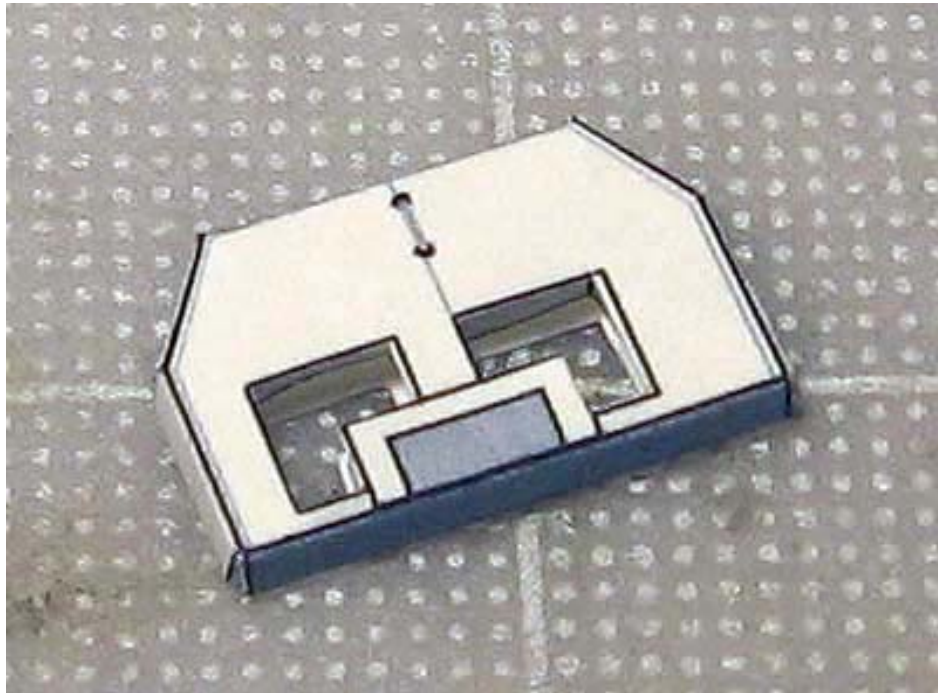
### Building the Exposed Pallet

Photo on the right shows all the components of the Exposed Pallet for the 1:100 scale model.

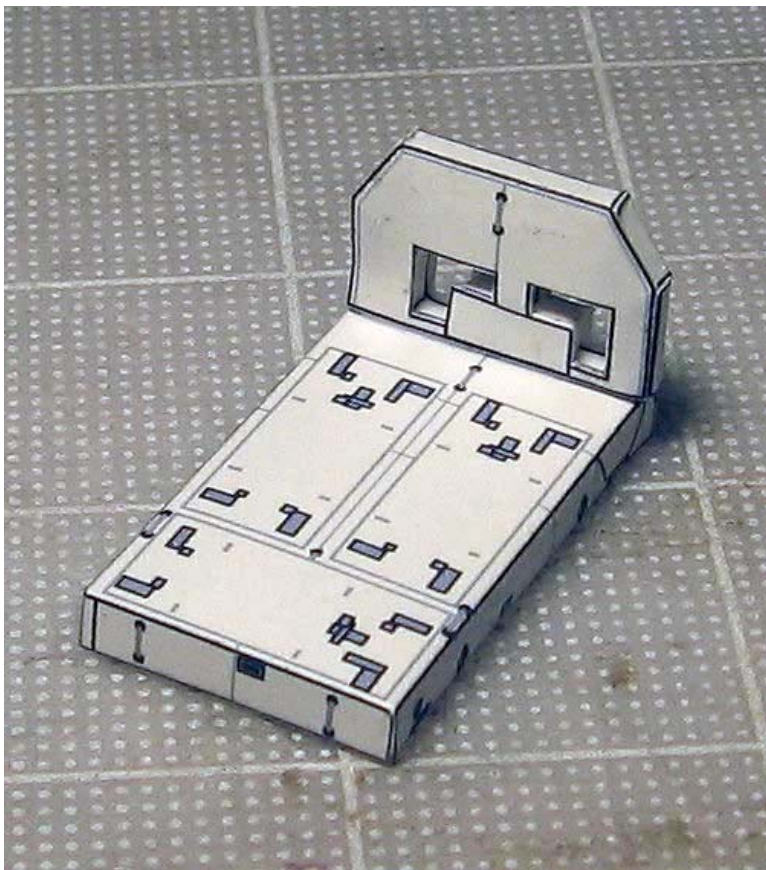
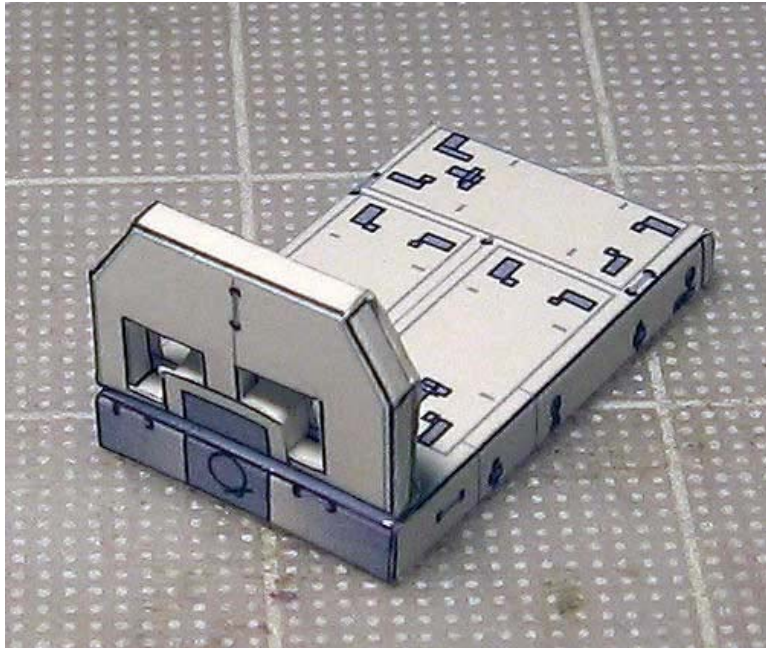




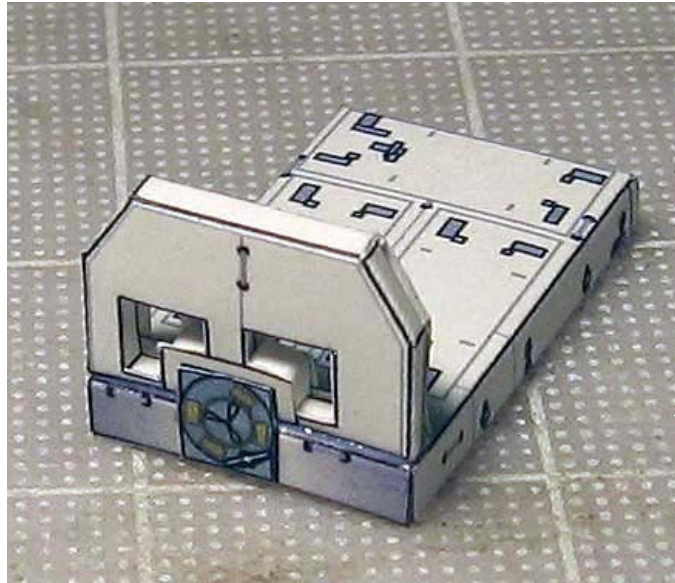
Glue the inner squares to form a 3D structure.



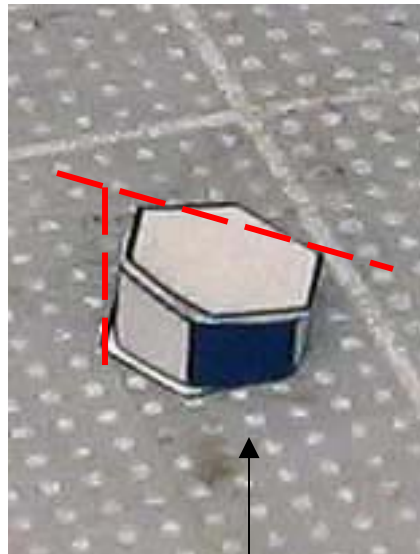
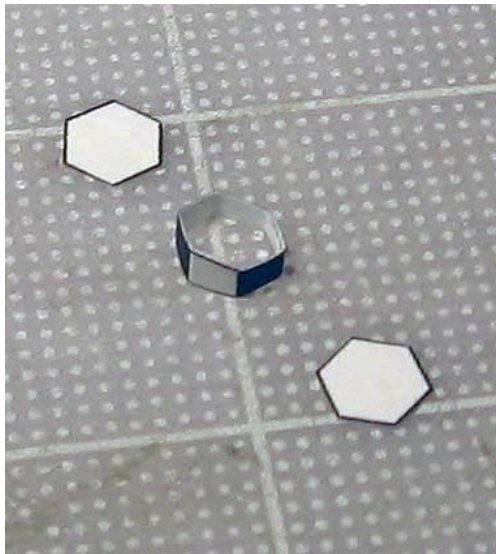




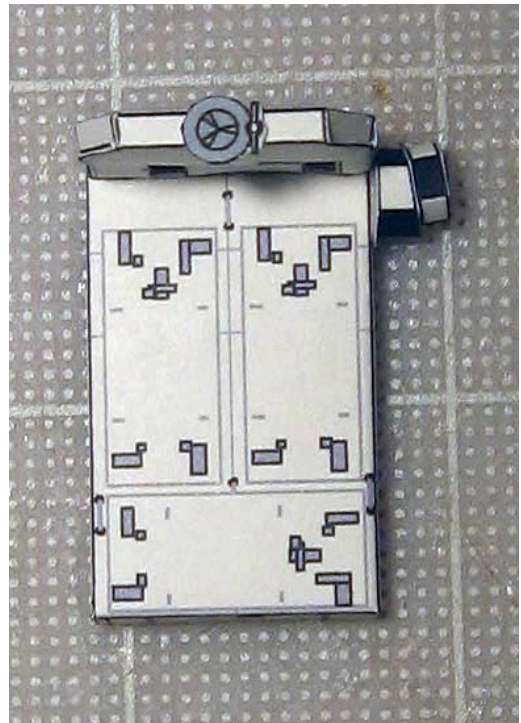
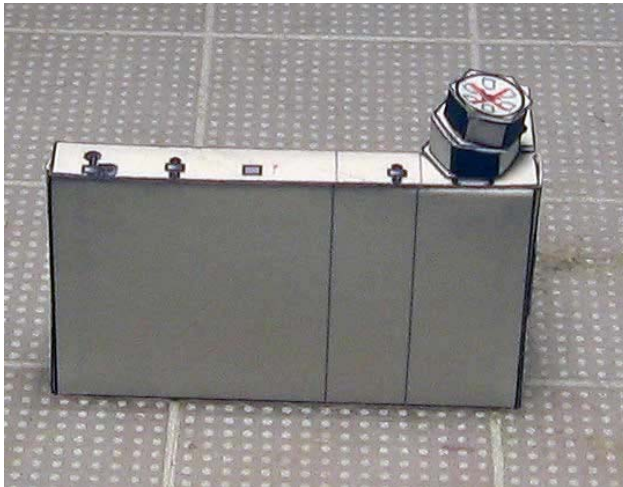
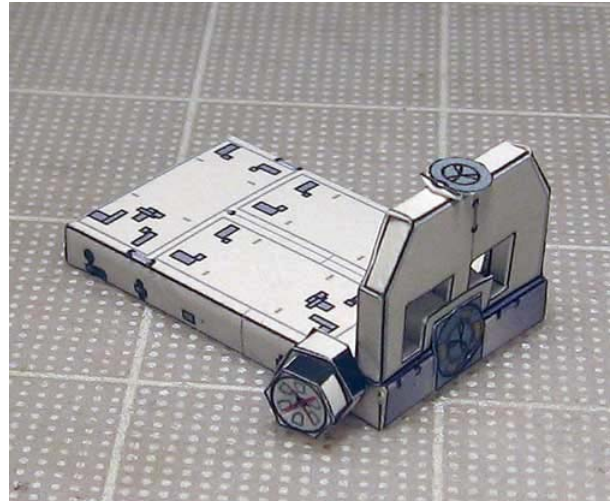
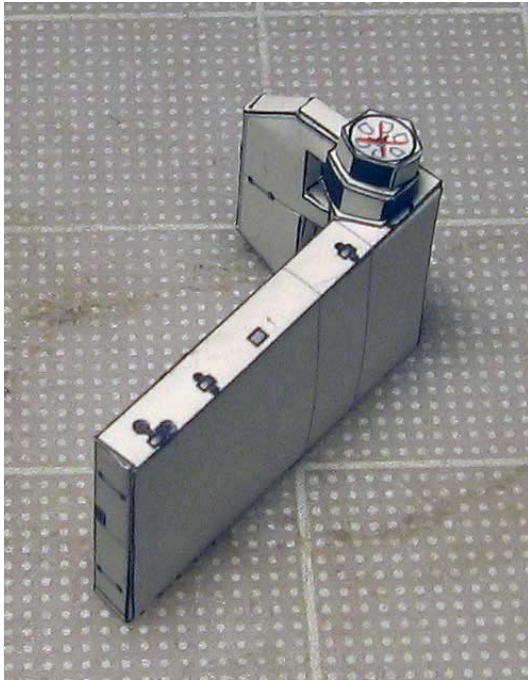




Glue the  
grapple fixture

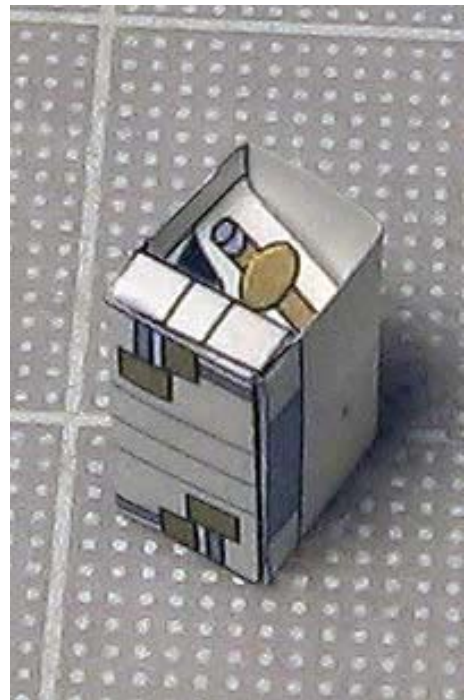
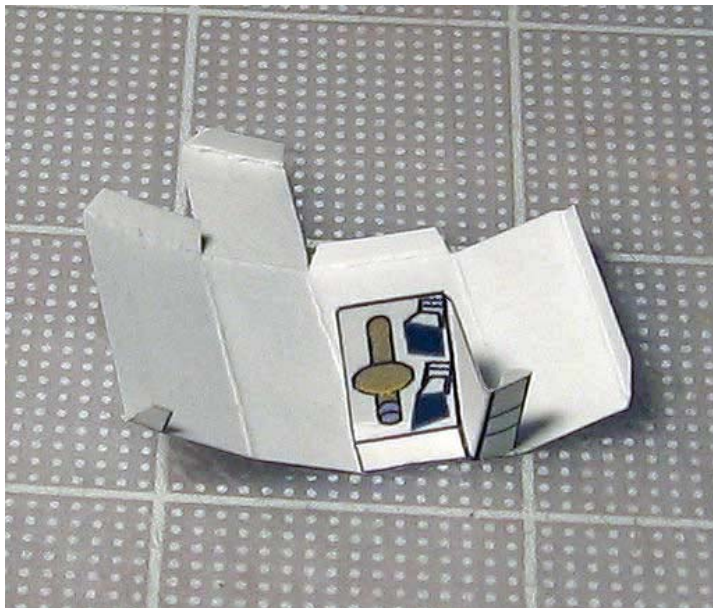
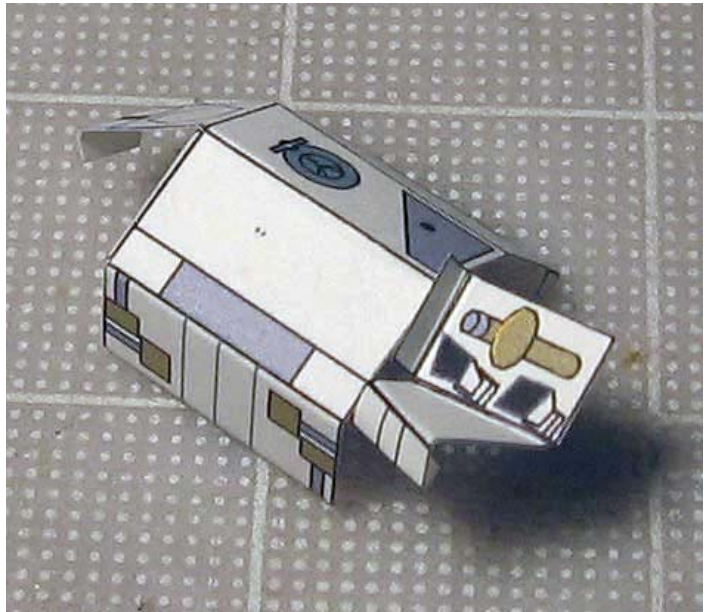
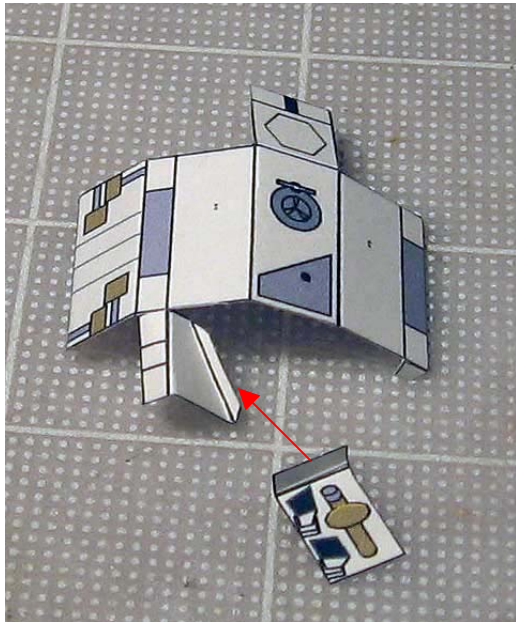


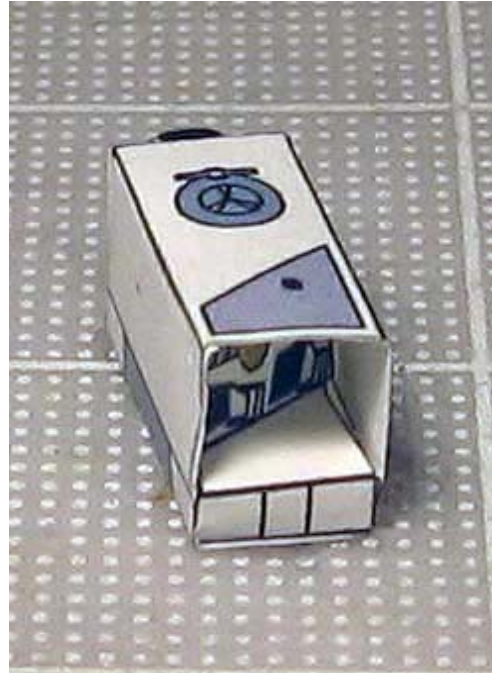
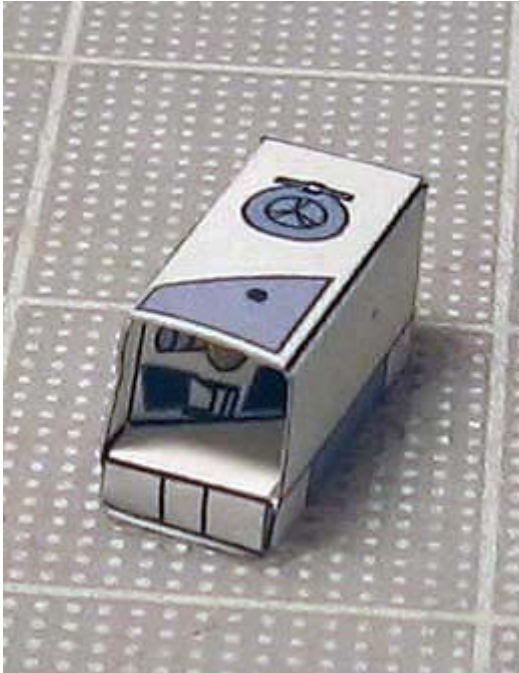
On the final model,  
this part is  
completely white.



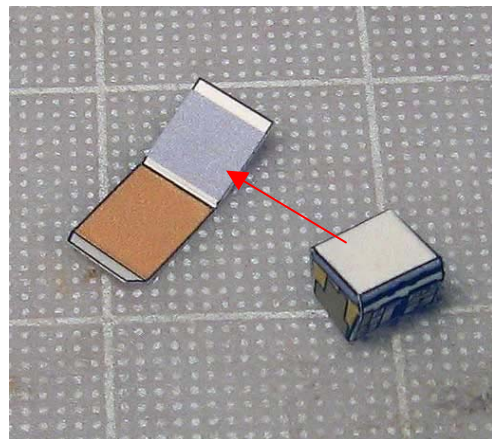
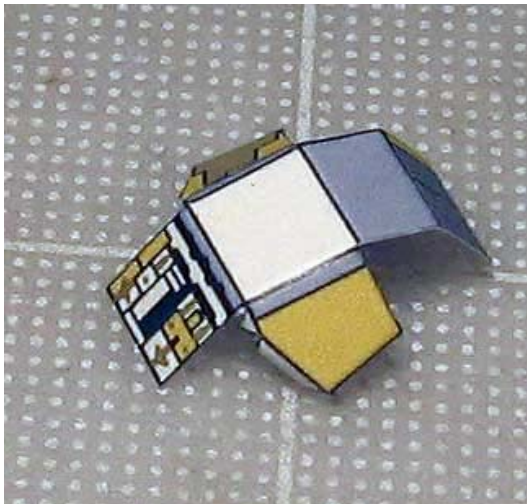


## Building the “SMILES” Exposed Payload

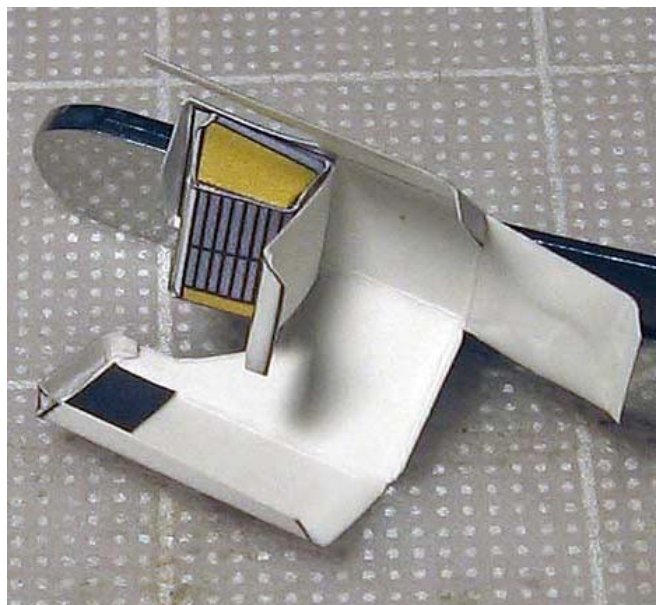
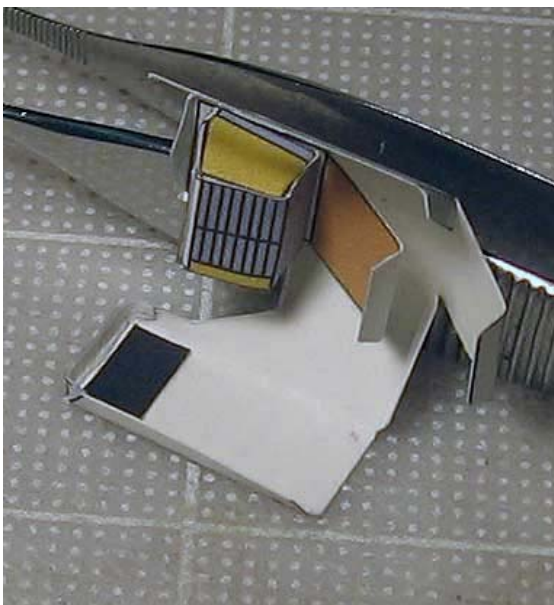
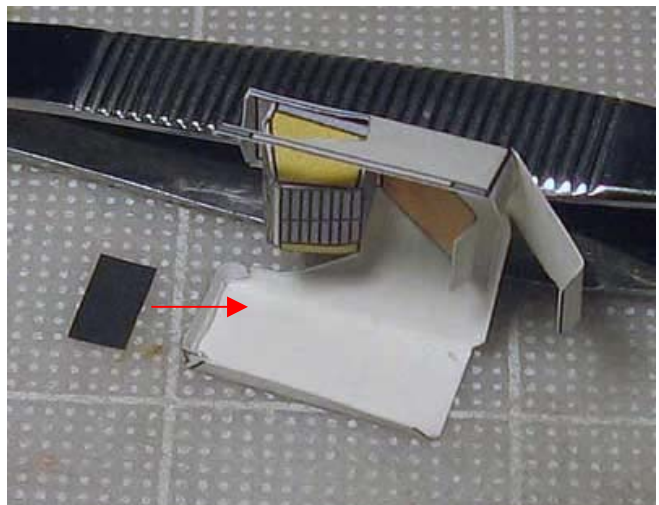
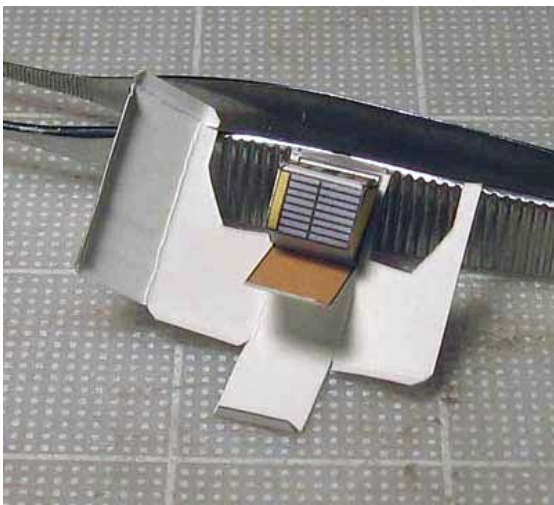
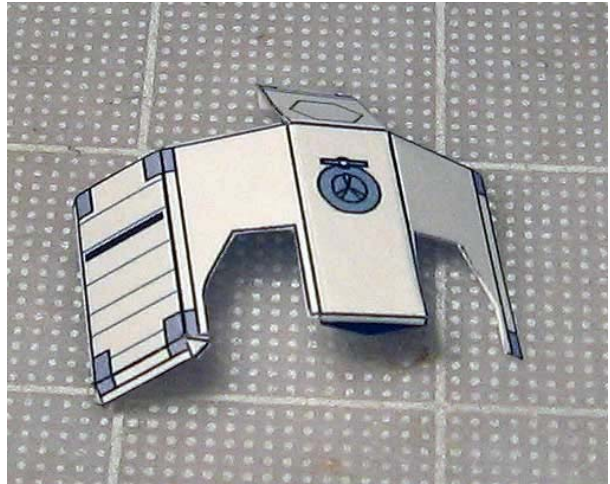
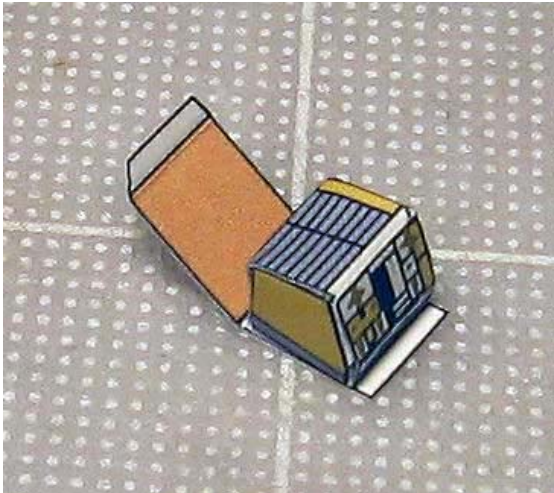




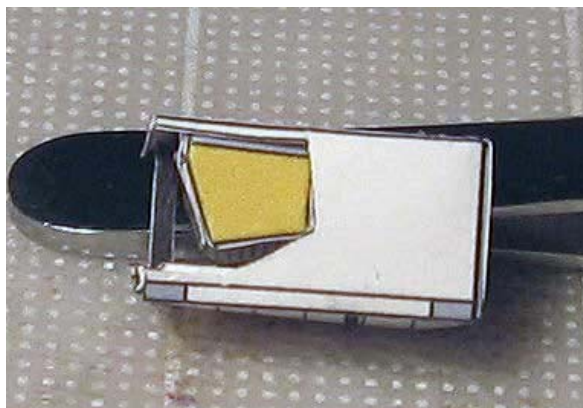
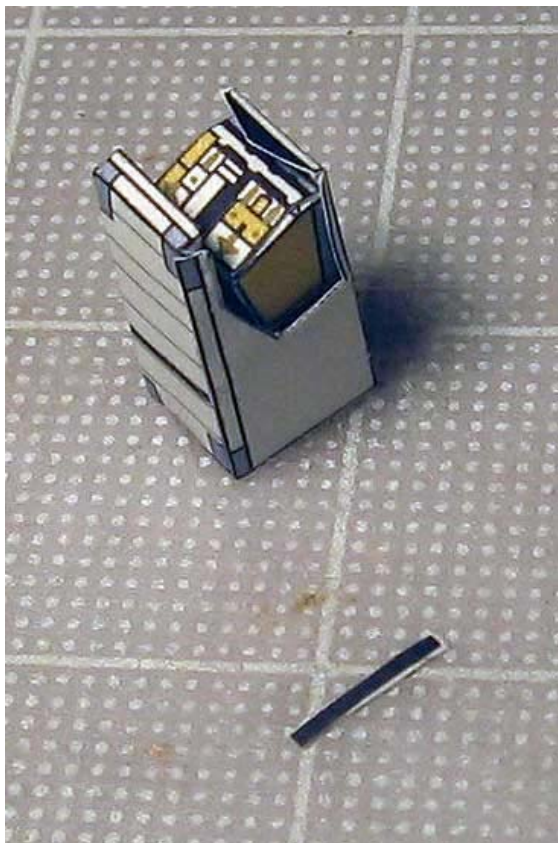
### Building the “HREP” Exposed Payload



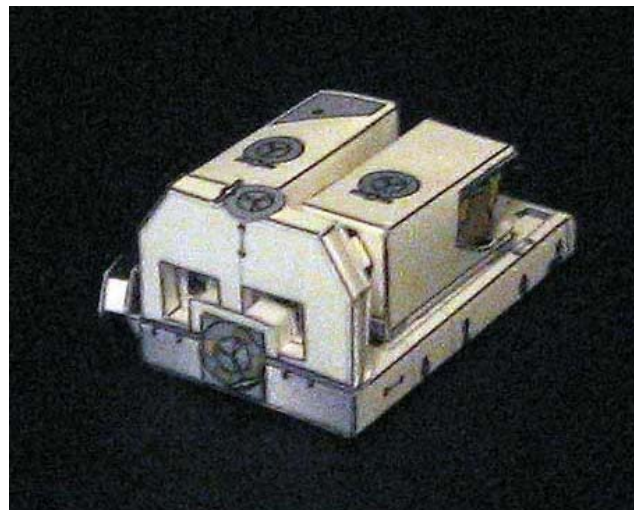
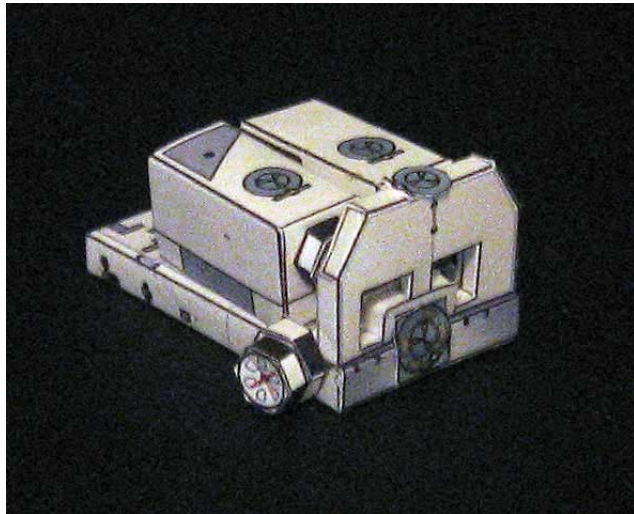
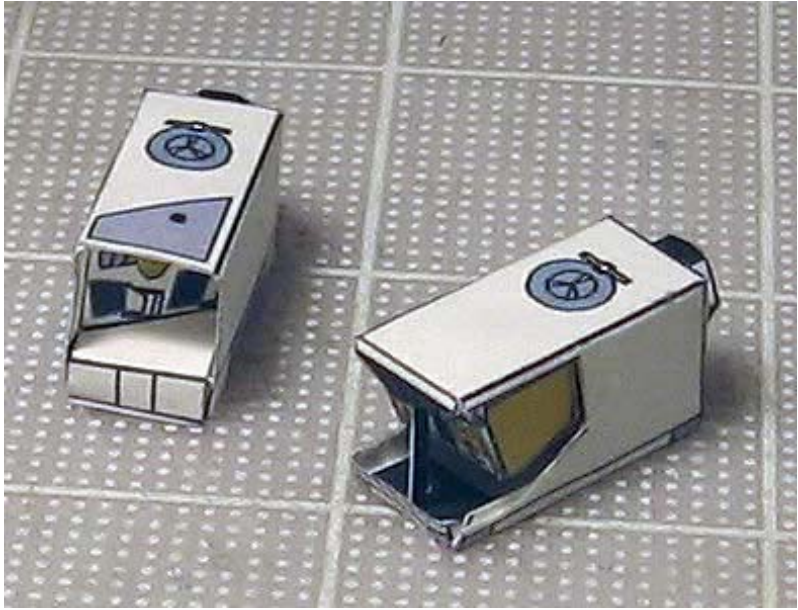


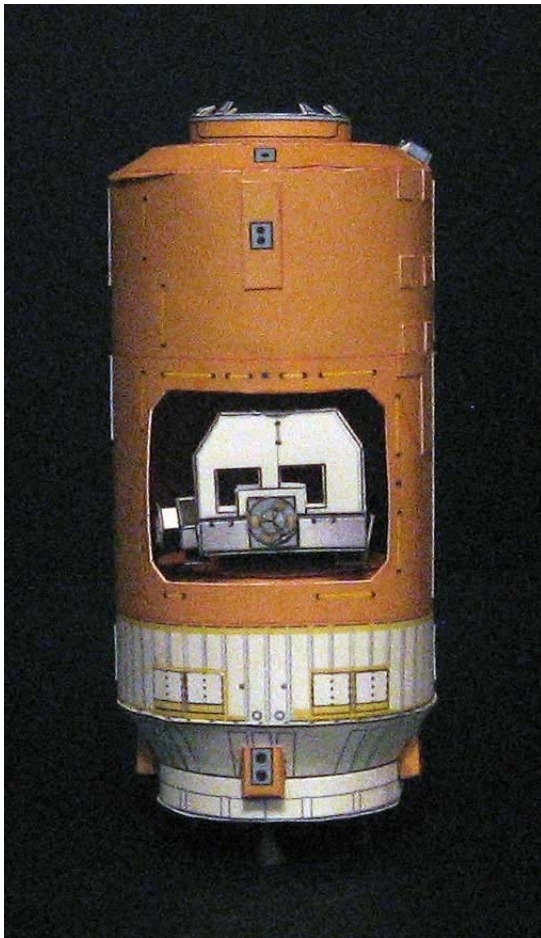
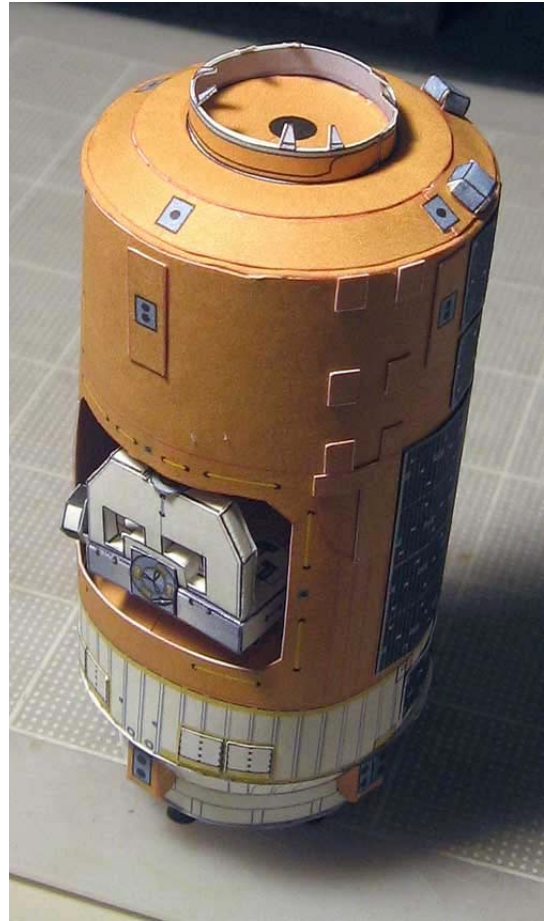
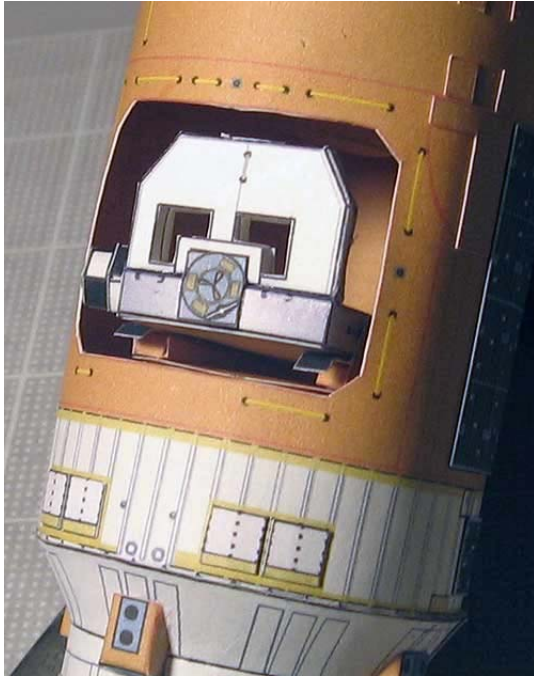






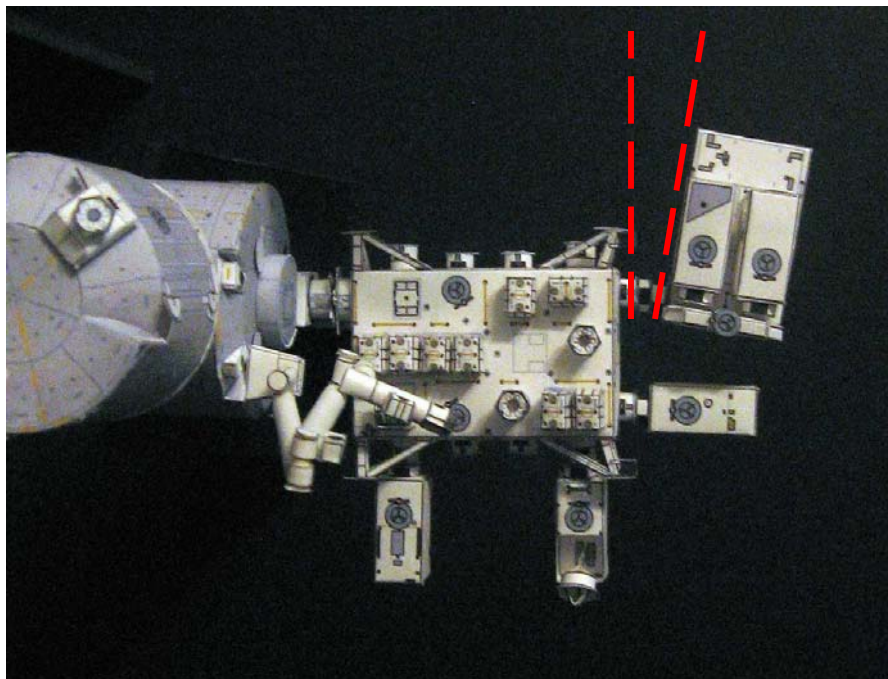
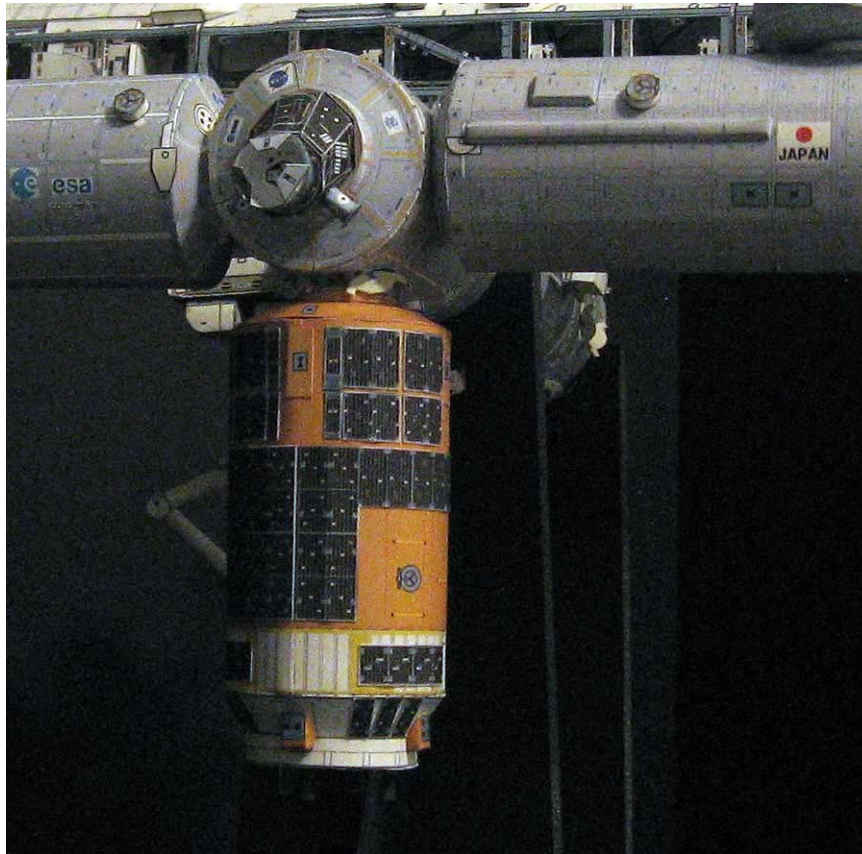


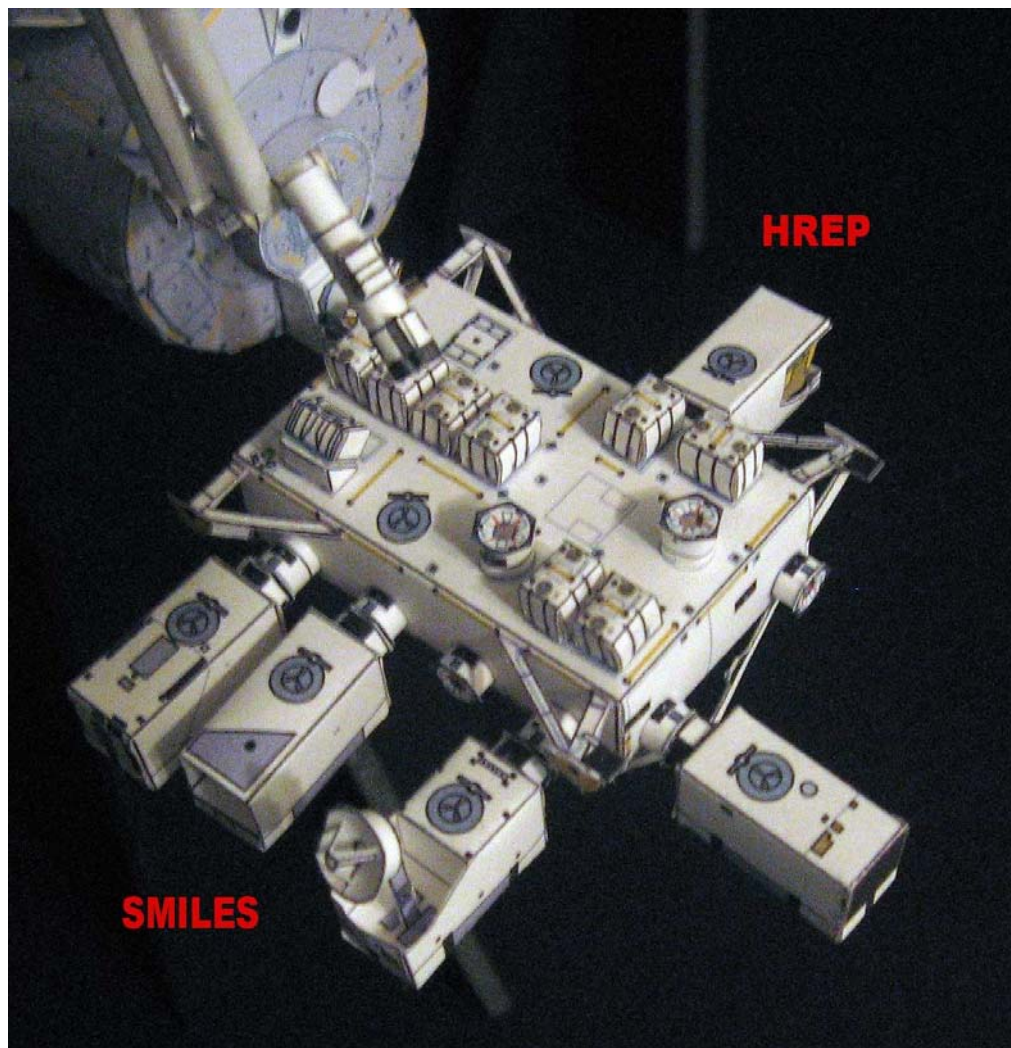






## Reference photos and location of payloads on the Exposed Facility





Enjoy!

<http://www.axmpaperspacescalemodels.com>