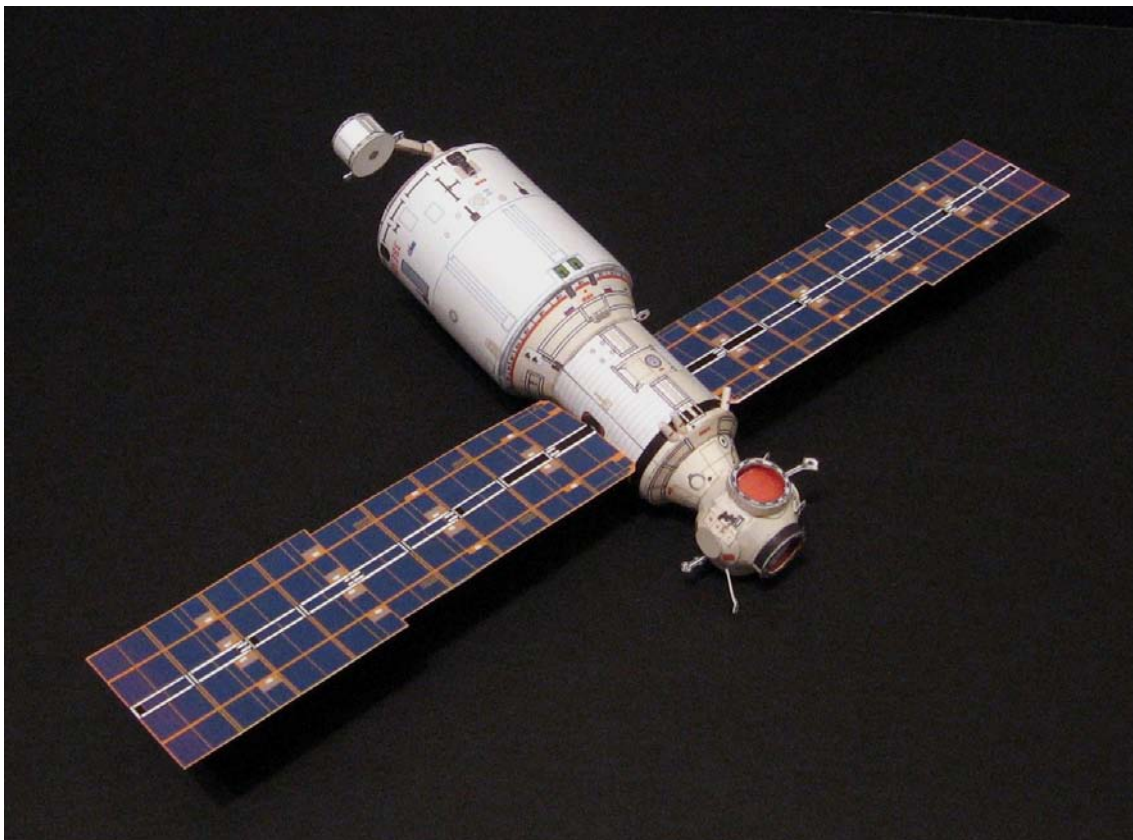




© 2010

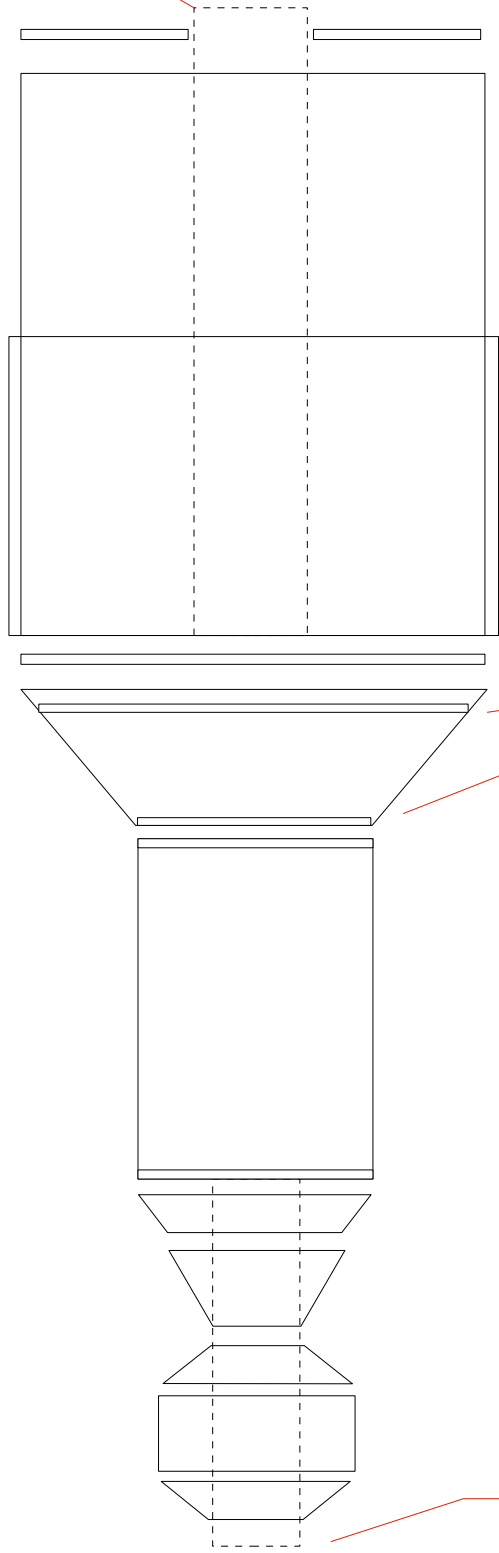
# ZVEZDA SERVICE MODULE Assembly Instructions



# Zvezda diagram

Aft connector

Aft face

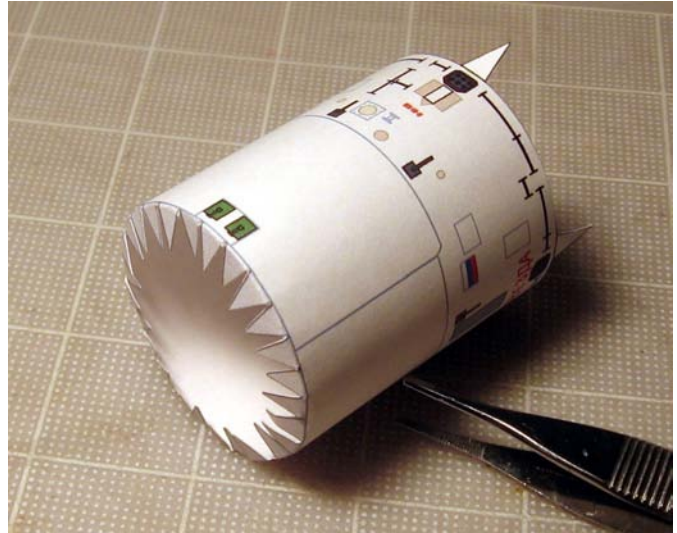
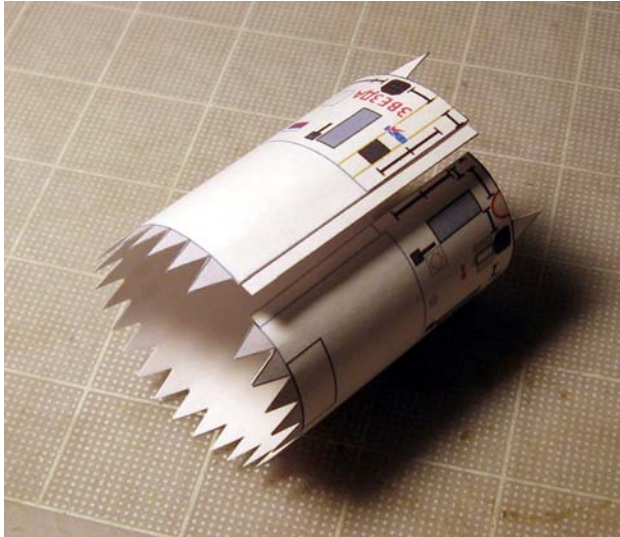


Middle cone enforcers

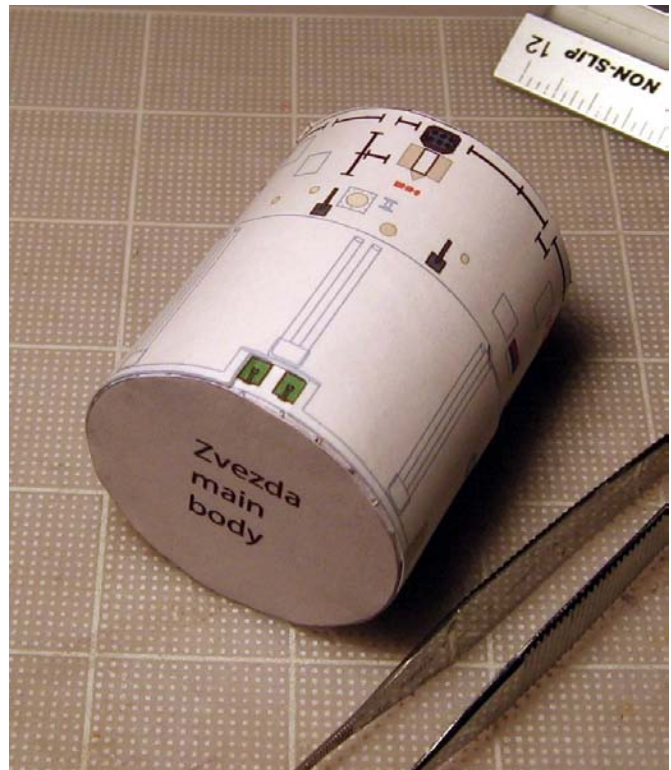
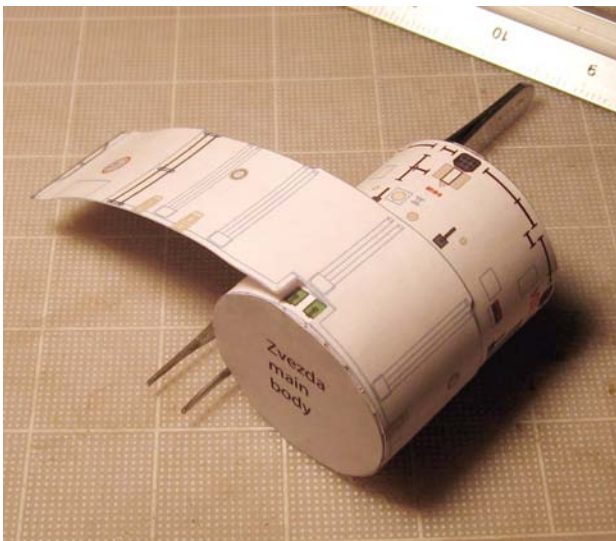
Front connector

The photos on this presentation belong to the draft model, therefore details and some parts will differ from the final product. This will only serve as a guide to build the model.

### Building Zvezda Servicing Module



This photo shows a draft version of Zvezda. The final model has similar triangular tabs on both ends of the cylinder, not like the one on this photo.



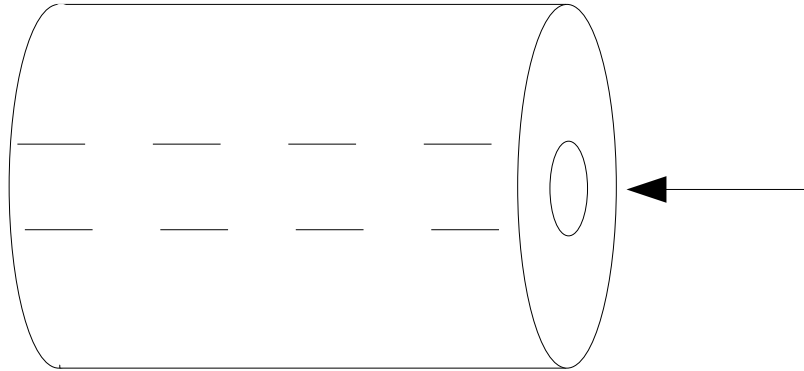
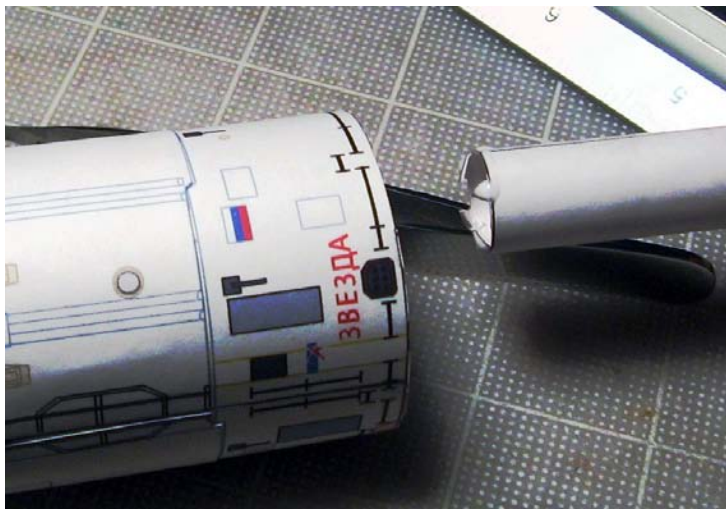
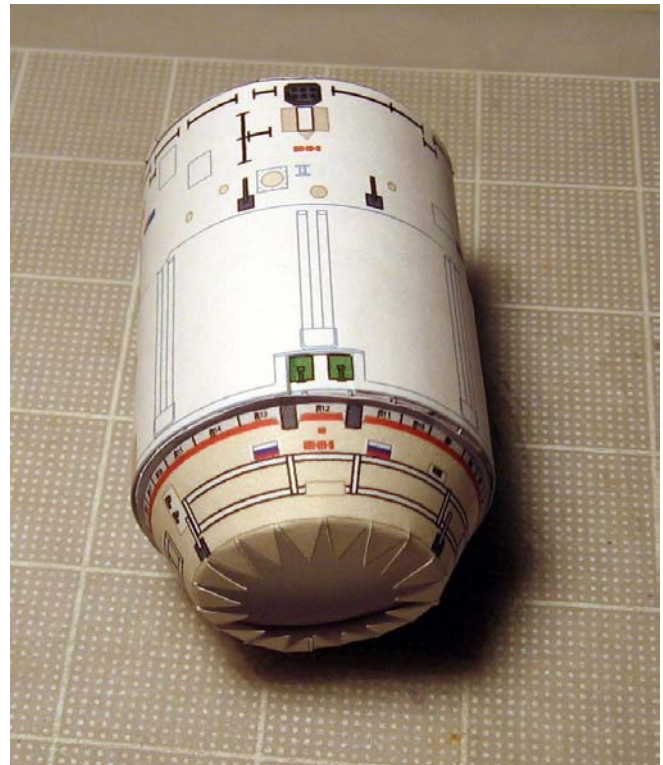
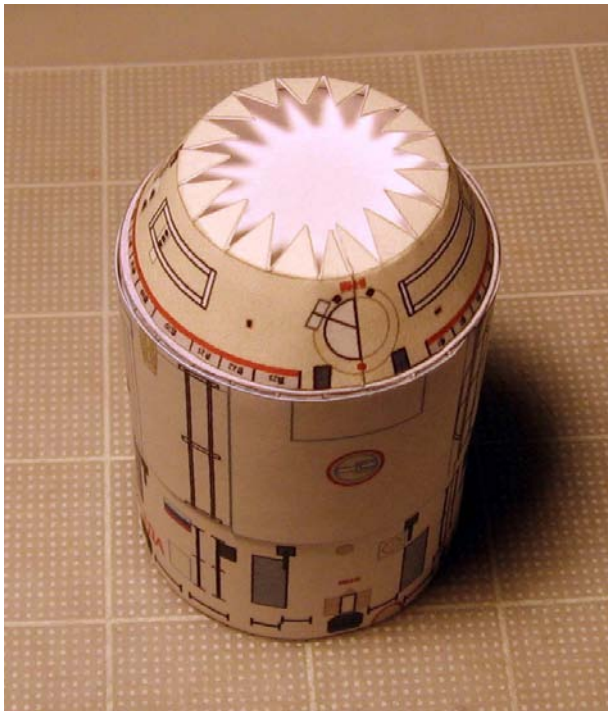


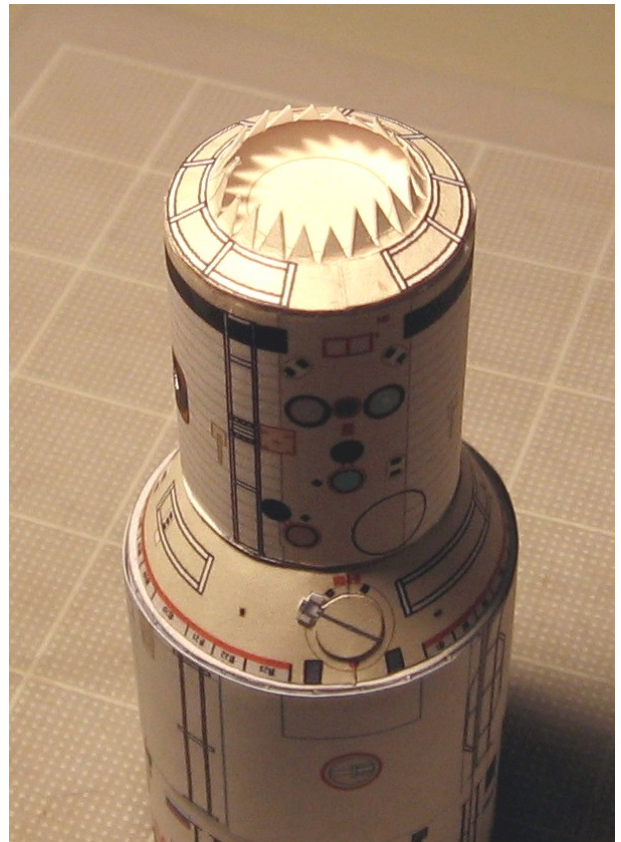
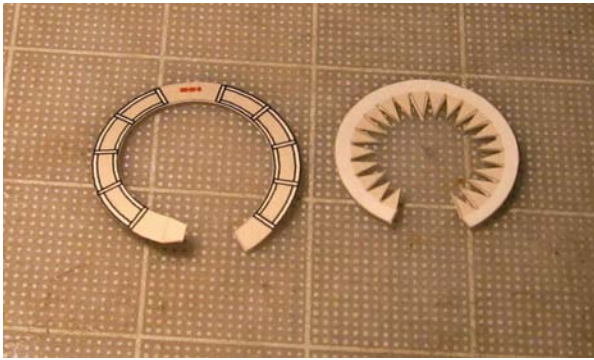
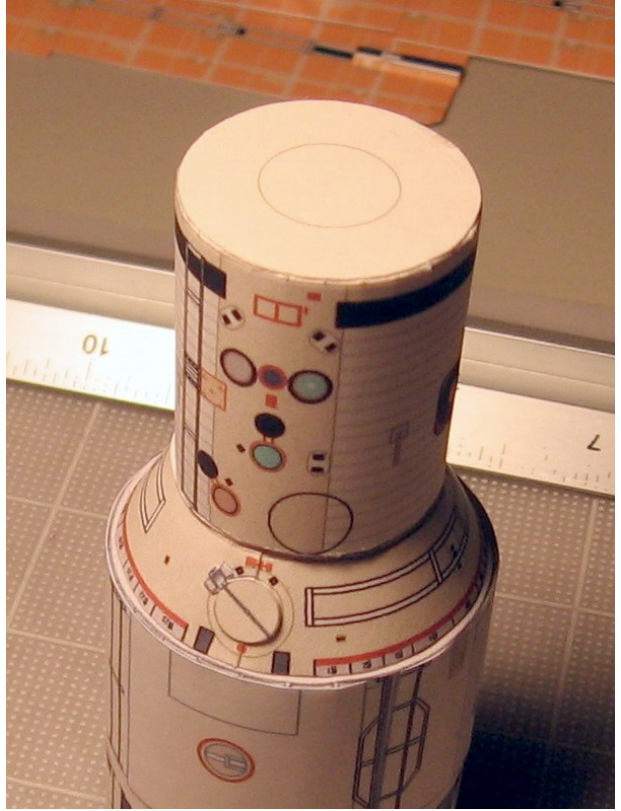
Diagram shows aft portion of Zvezda. The opening at the aft is where the docking connector tube slides into the cylinder and is glued firmly.

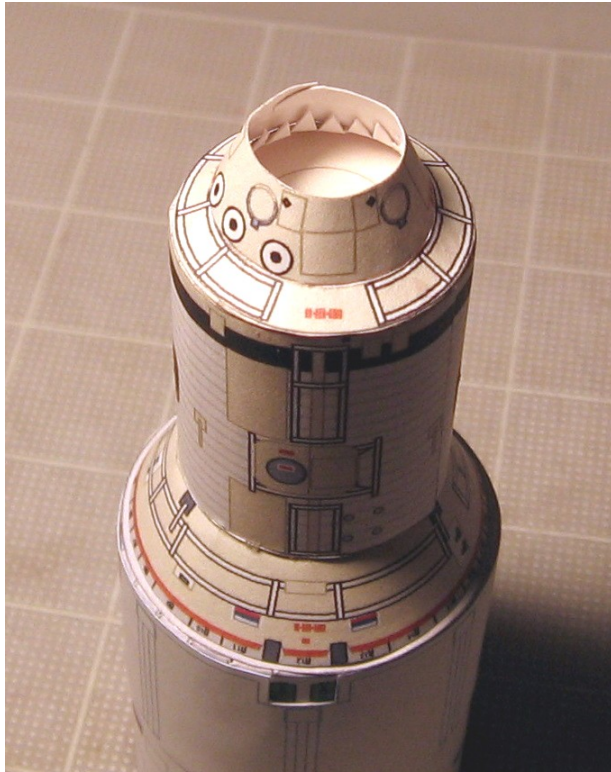




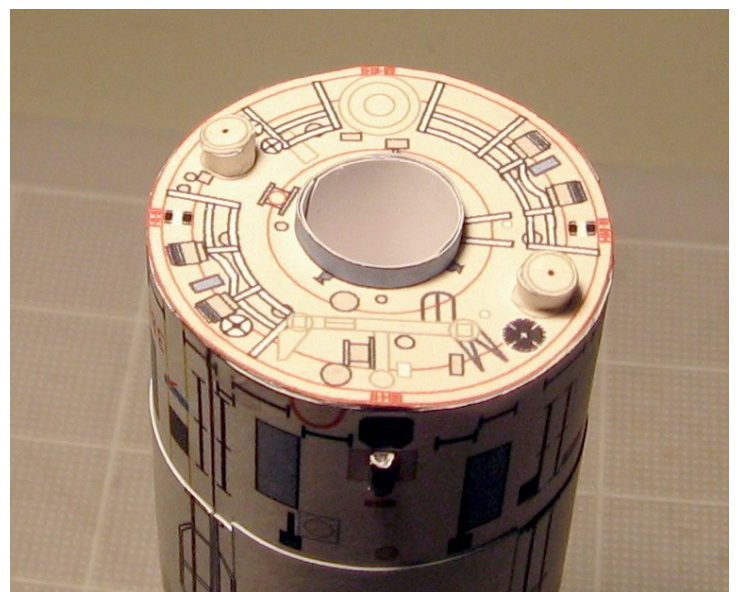
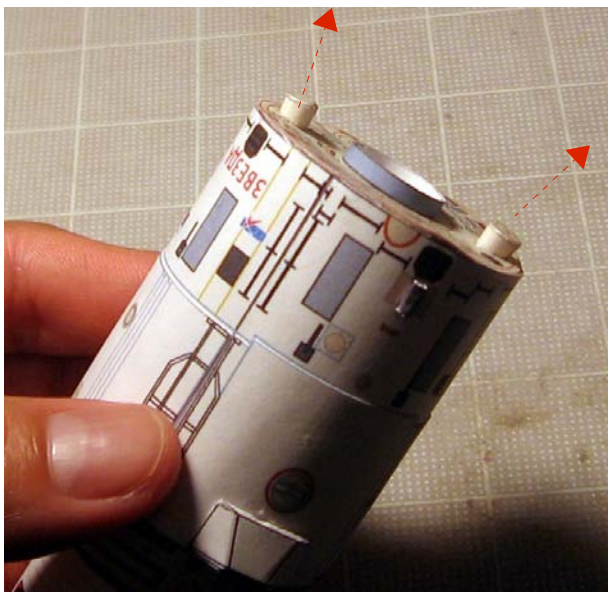
These enforcers will help maintain the rounded shape of the large cone part of Zvezda.





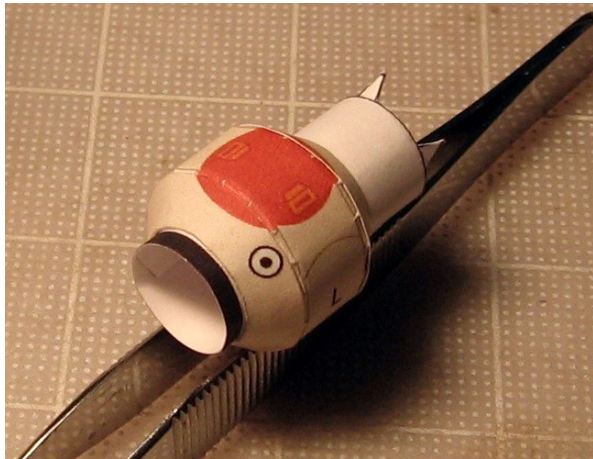


Zvezda engine block with cover. To be glued on the aft side of the module in an angle.

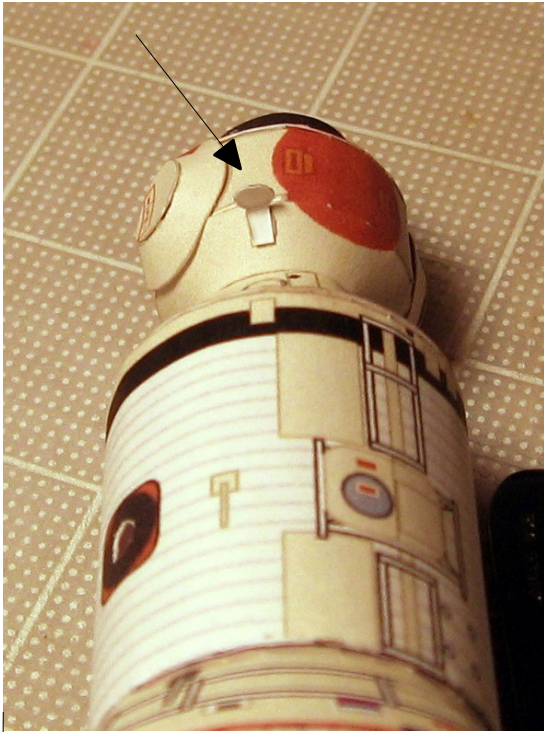
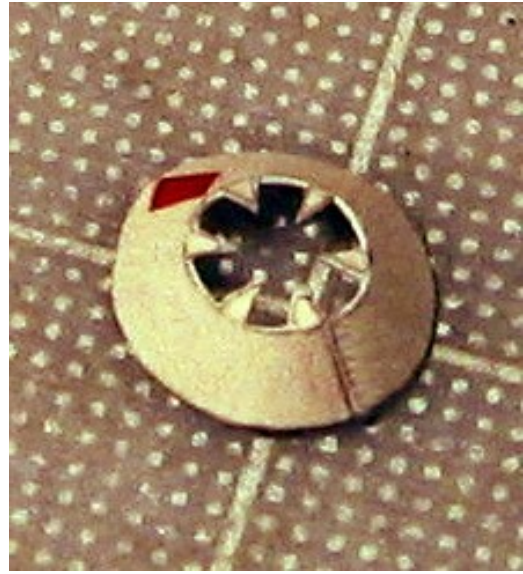
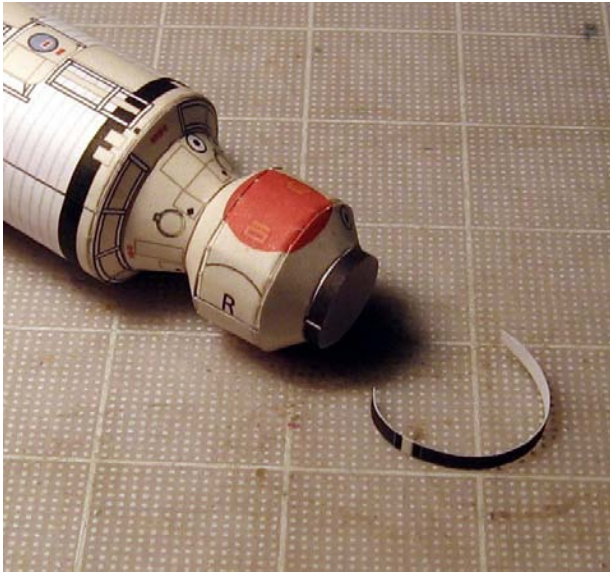




These photos belong to Zarya assembly manual. These steps are the same for Zvezda.







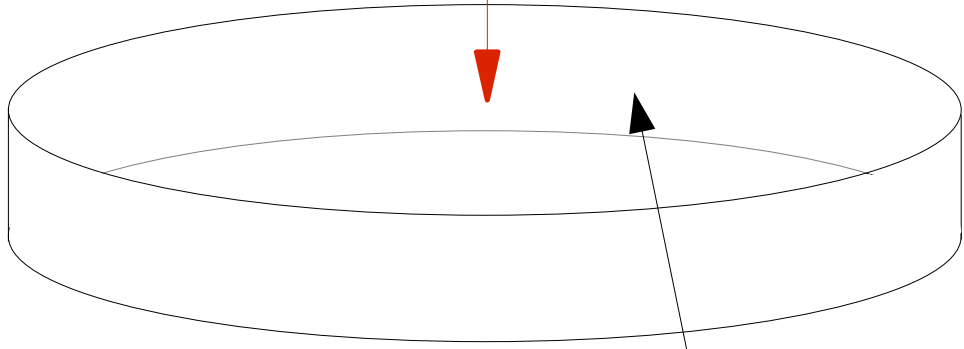
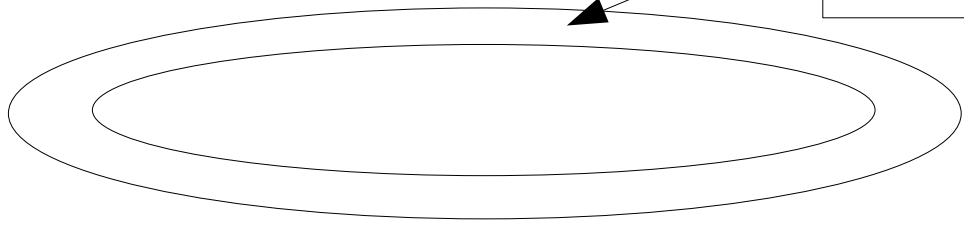
Visual target location.



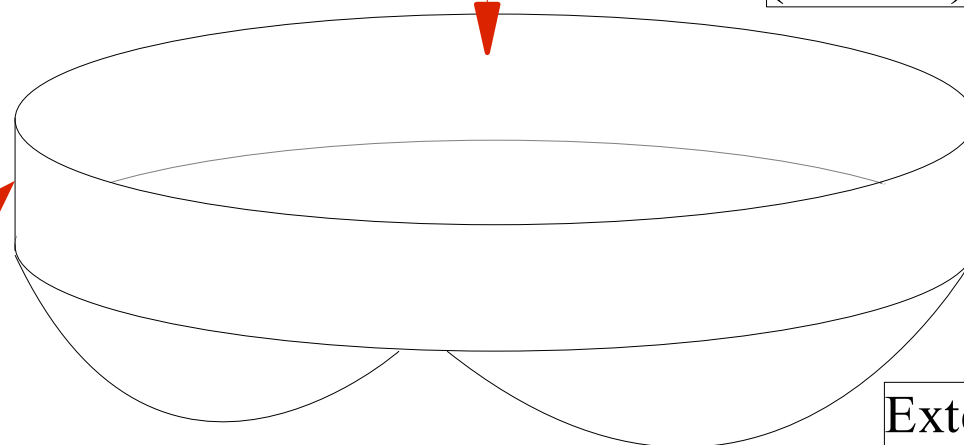
This belongs to Zarya but is the same part for Zvezda.



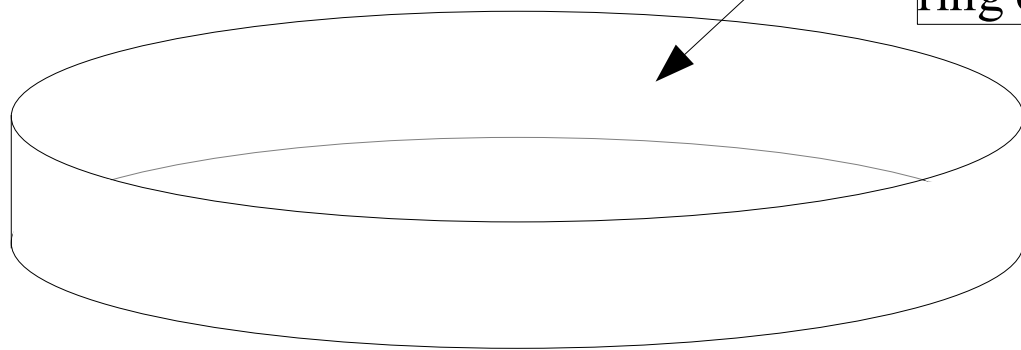
Docking ring

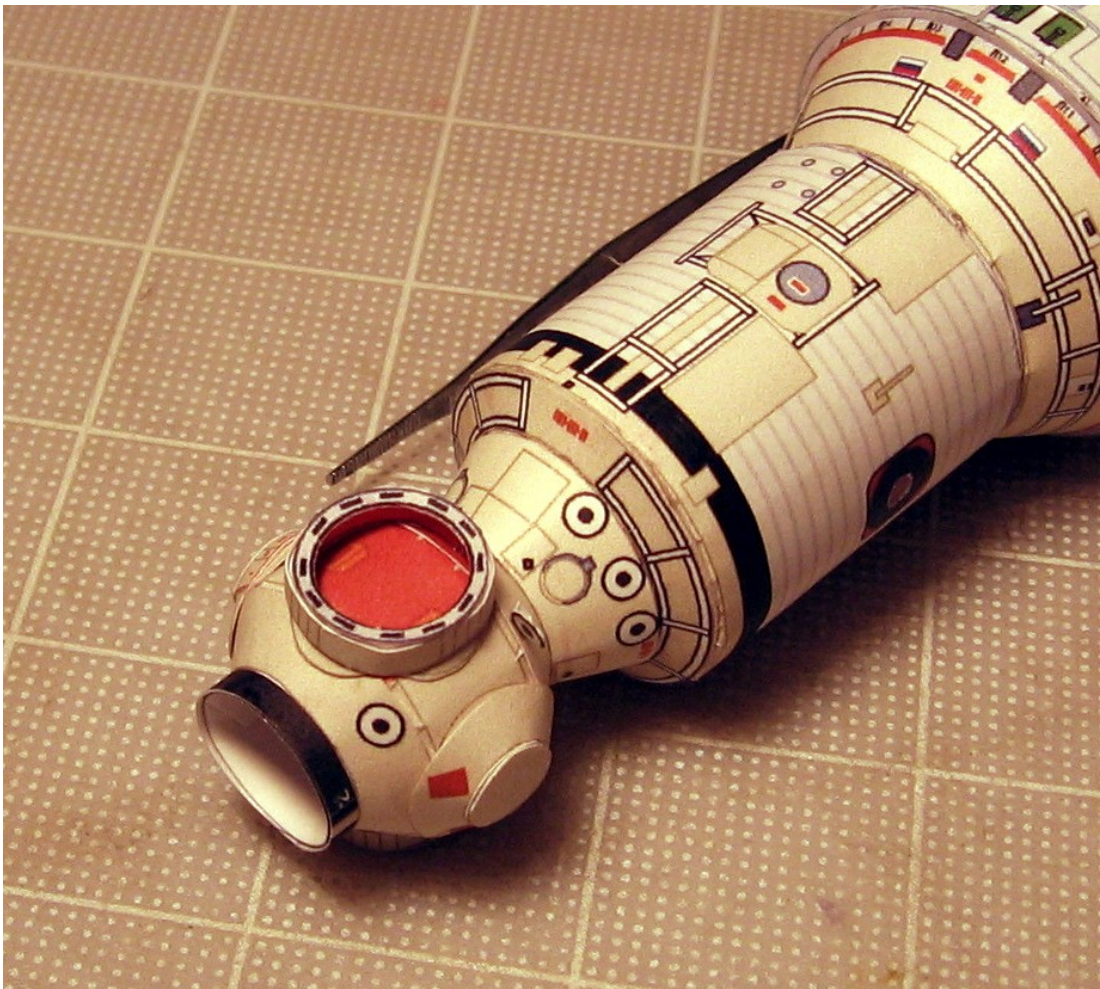
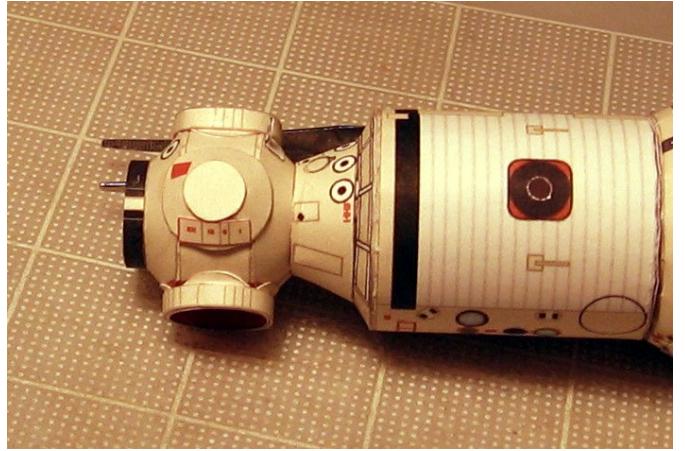
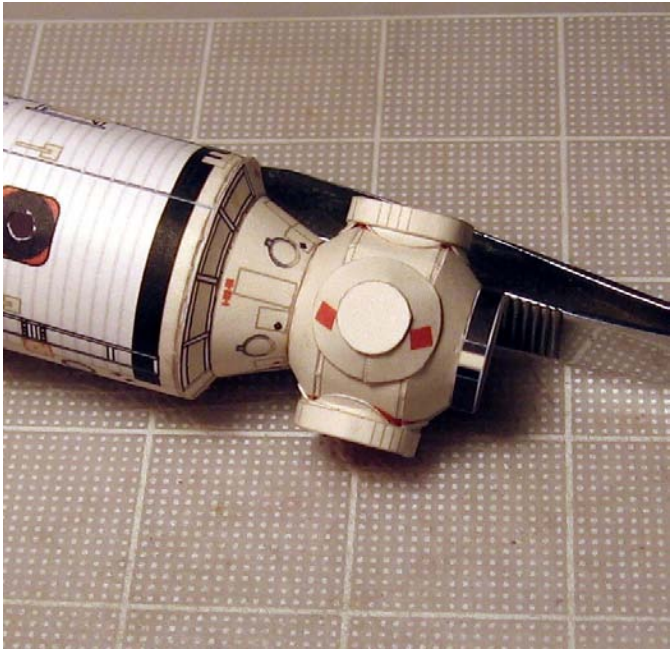


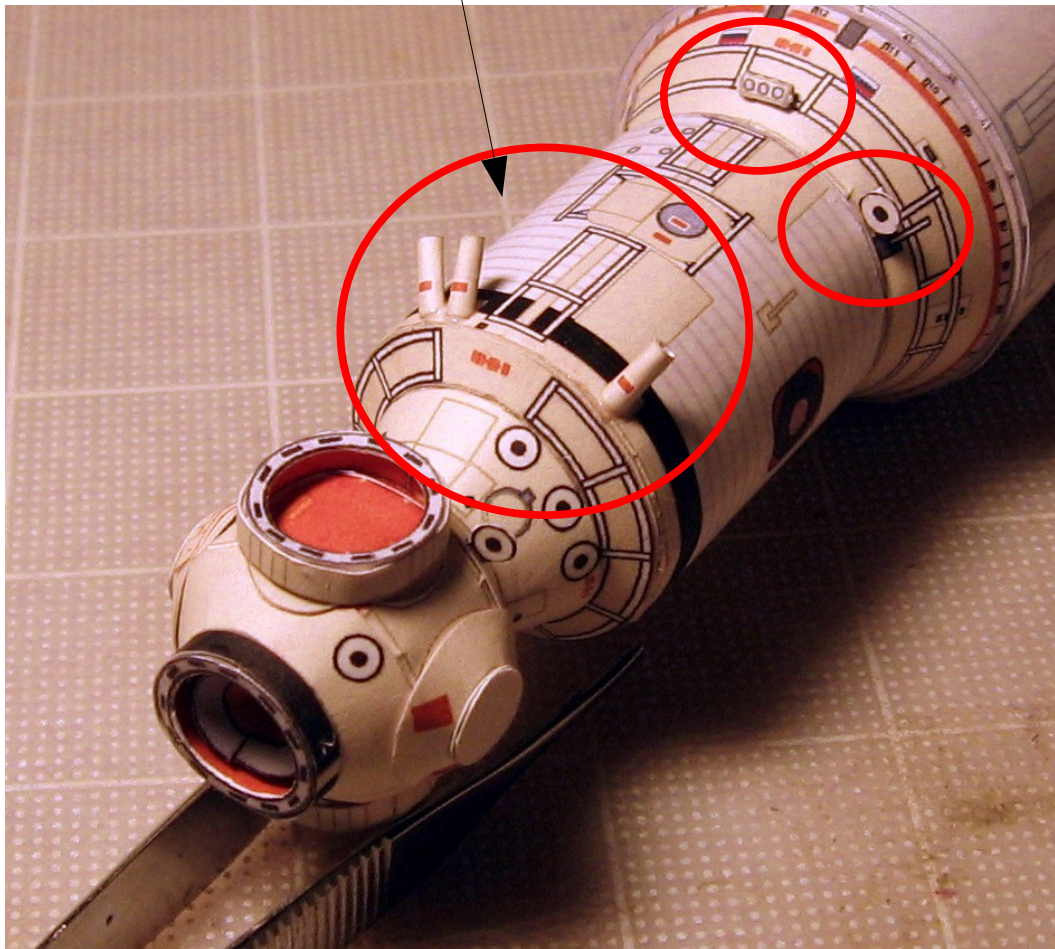
Inner cover  
(colored)

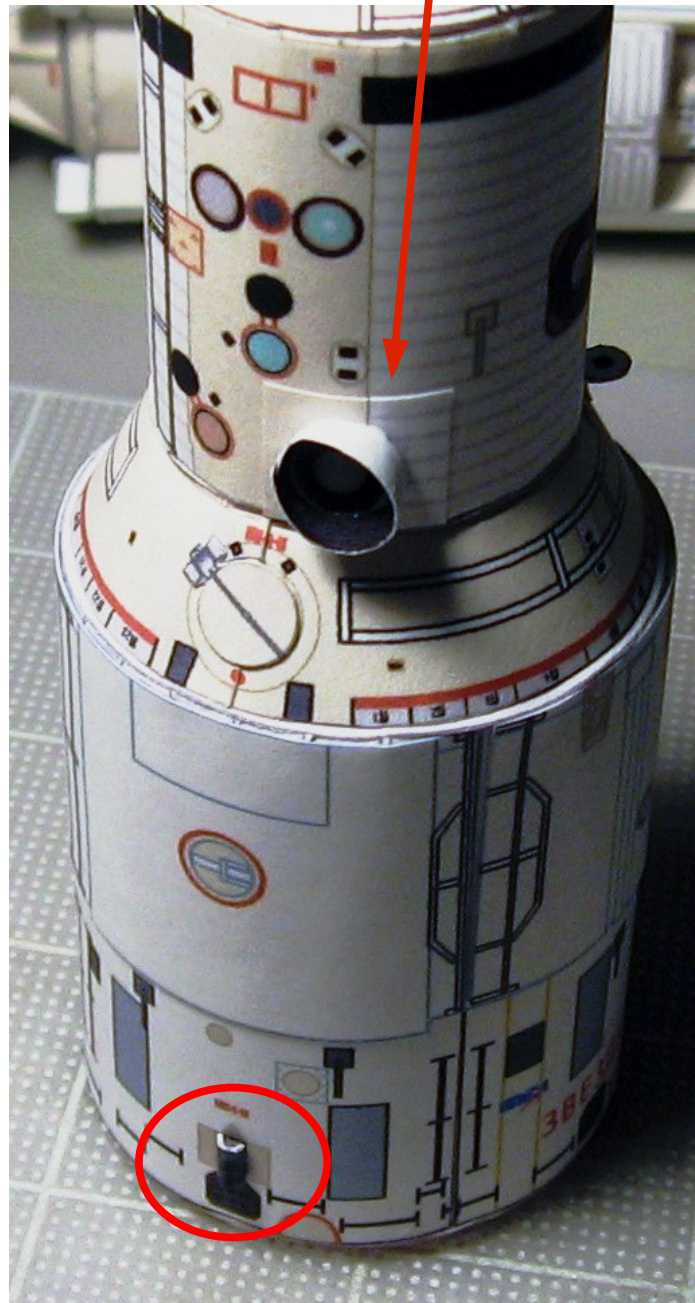
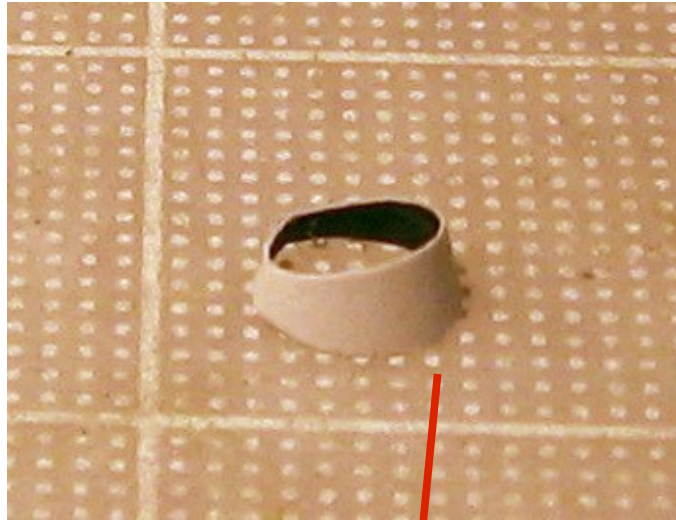


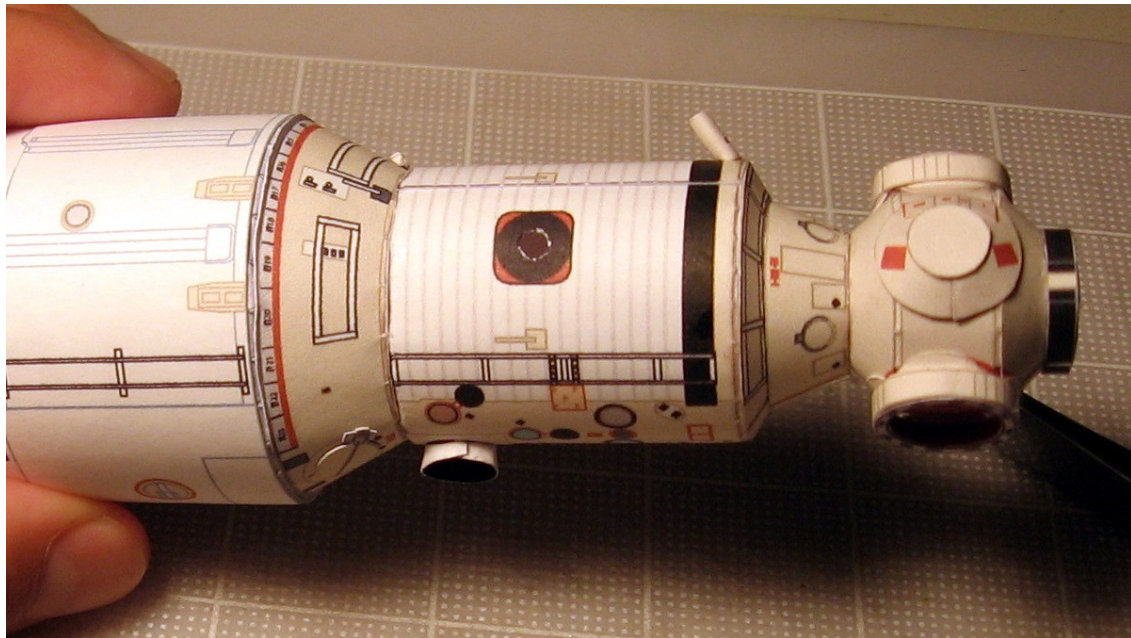
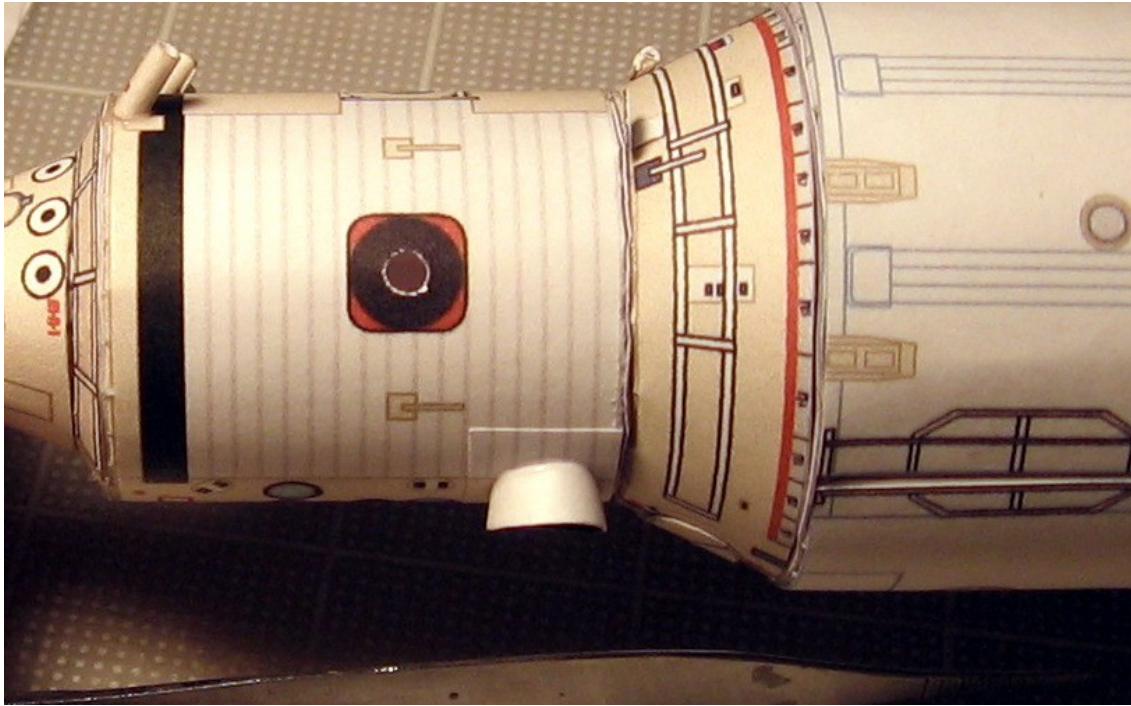
External  
ring cover

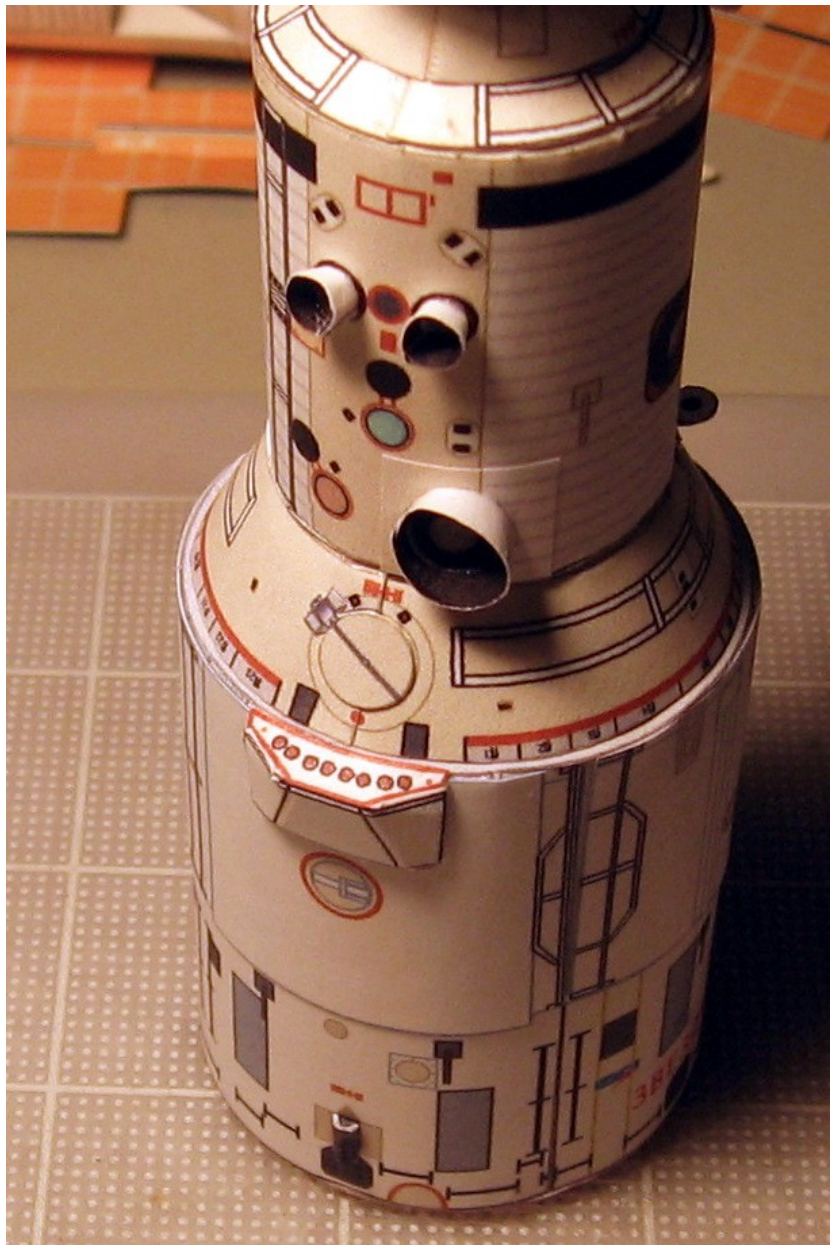
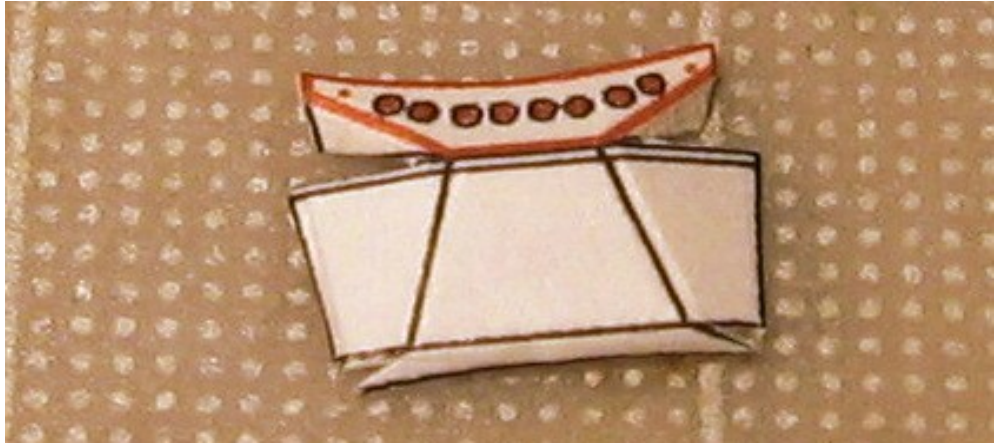


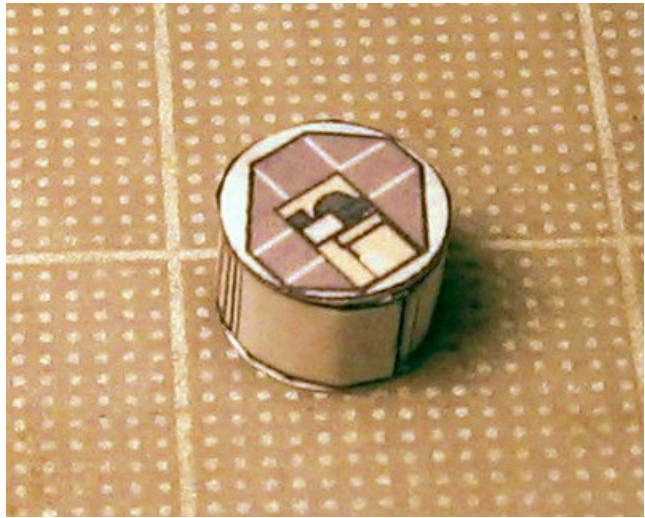
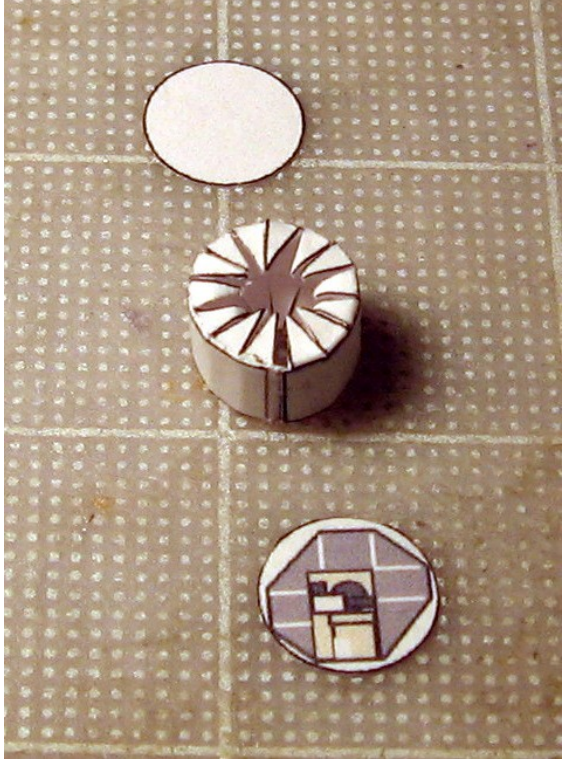
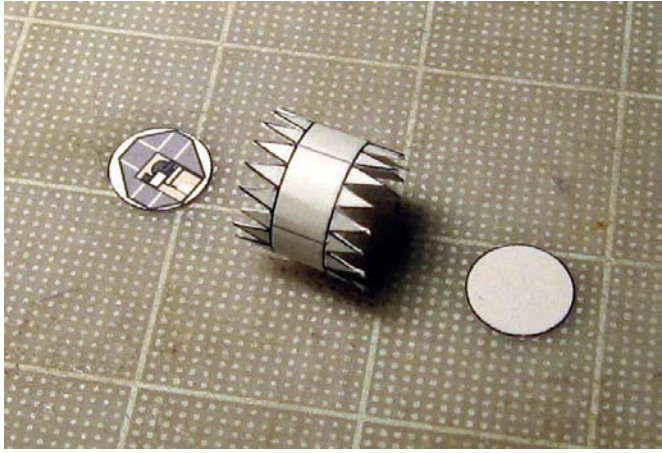




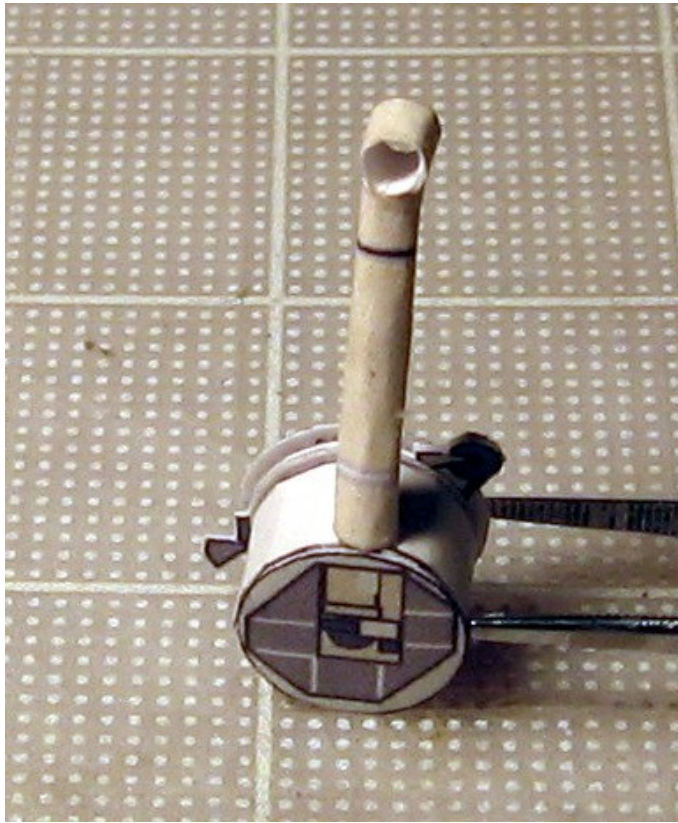
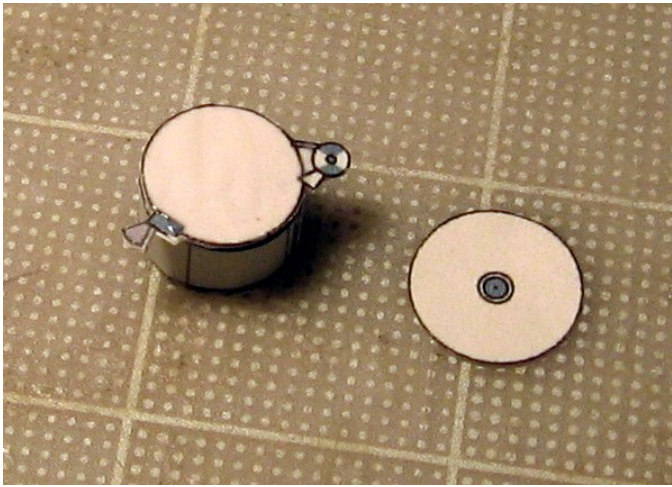


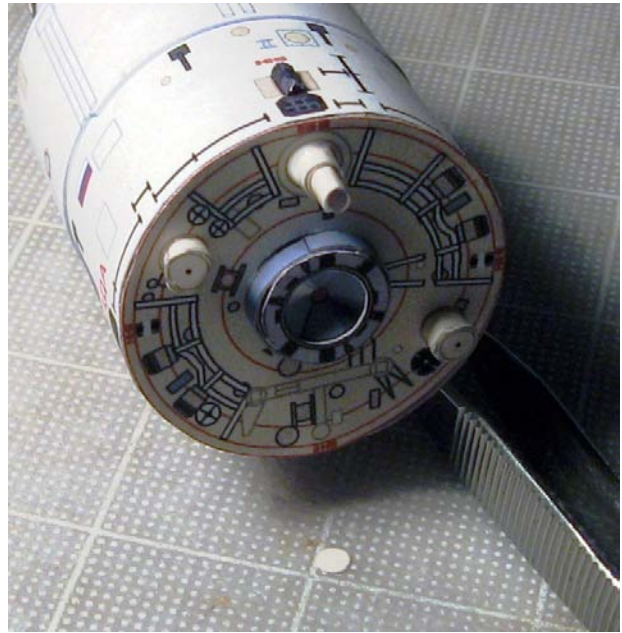
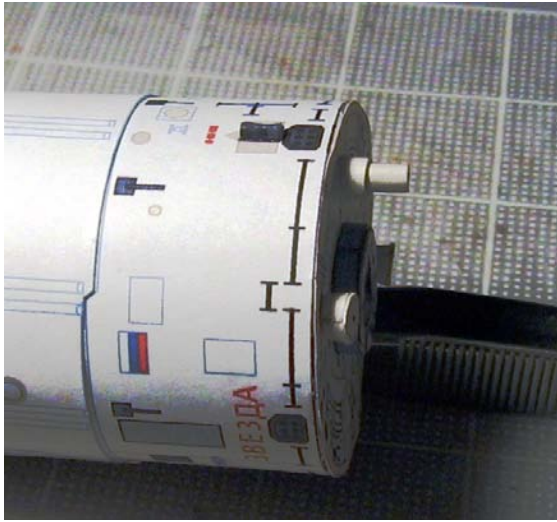
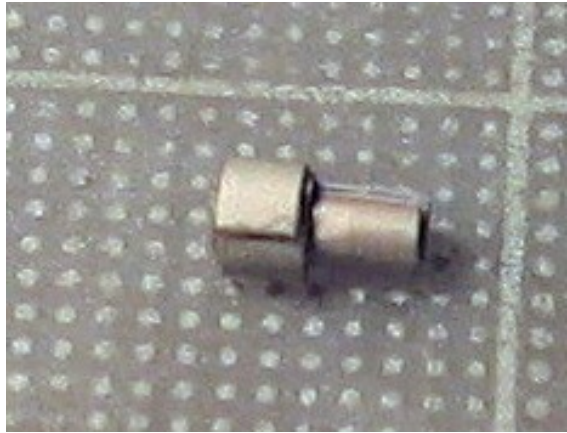
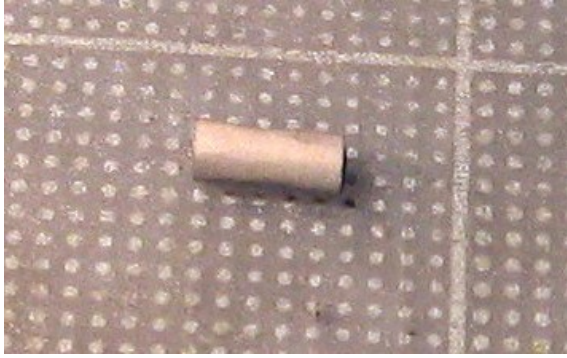


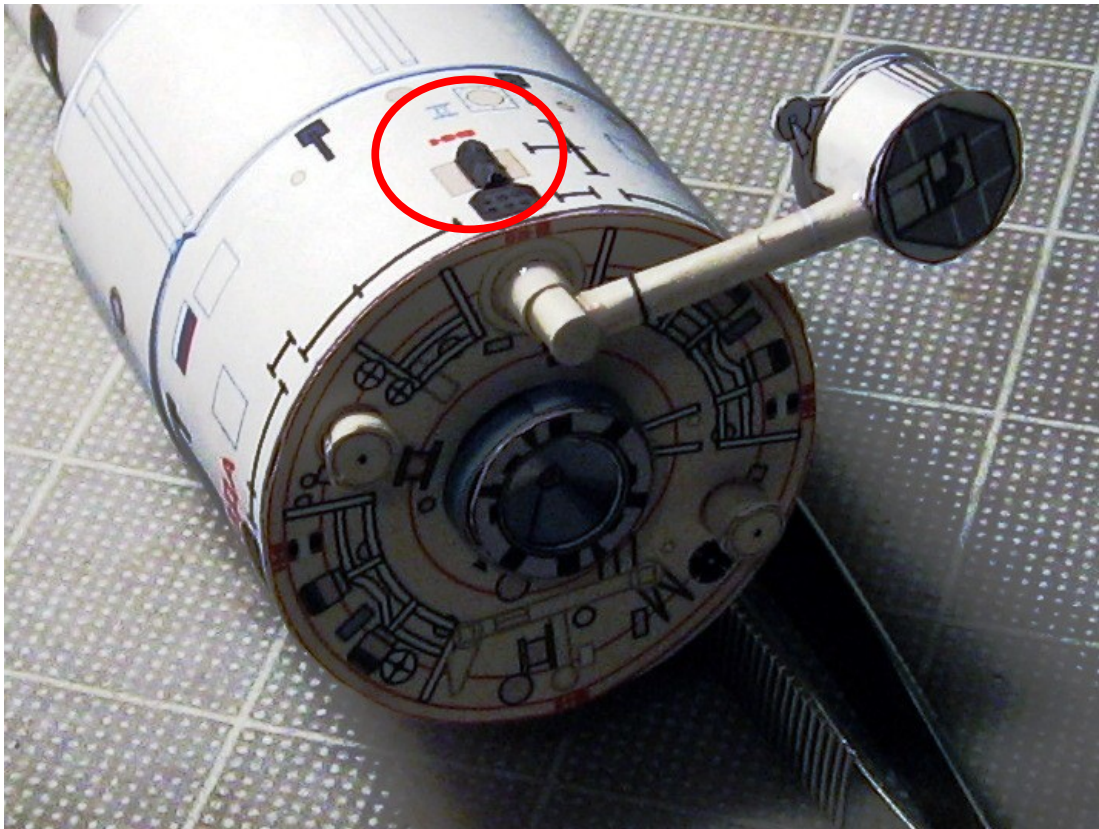
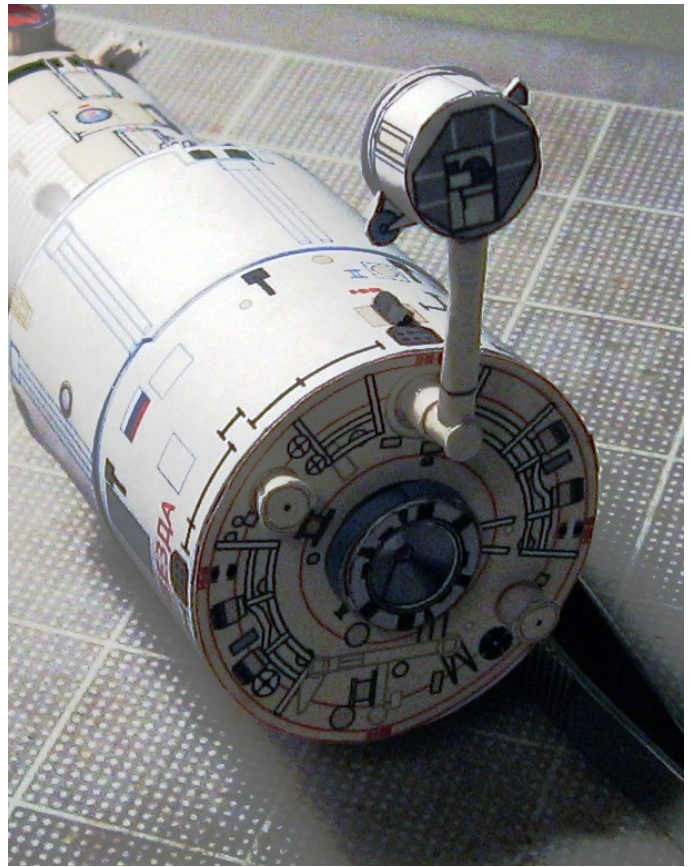
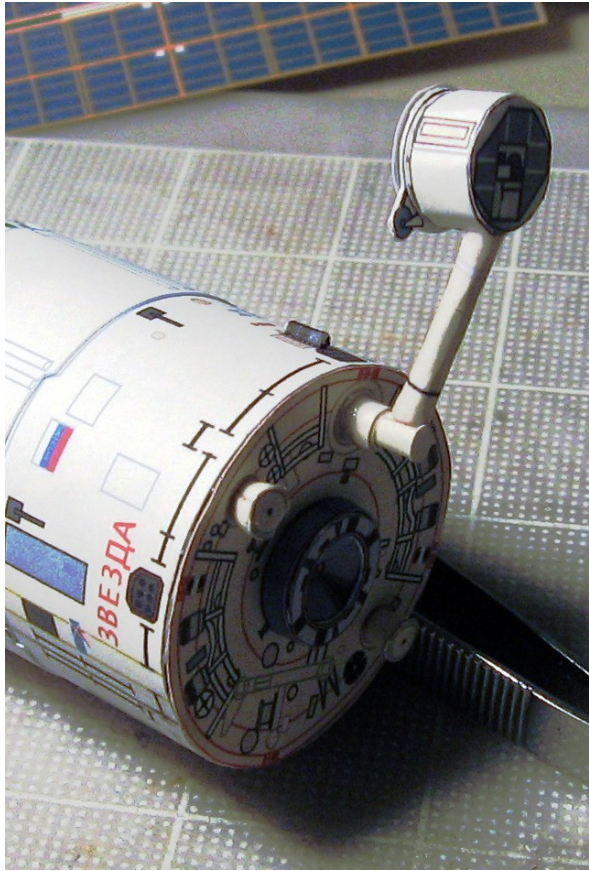


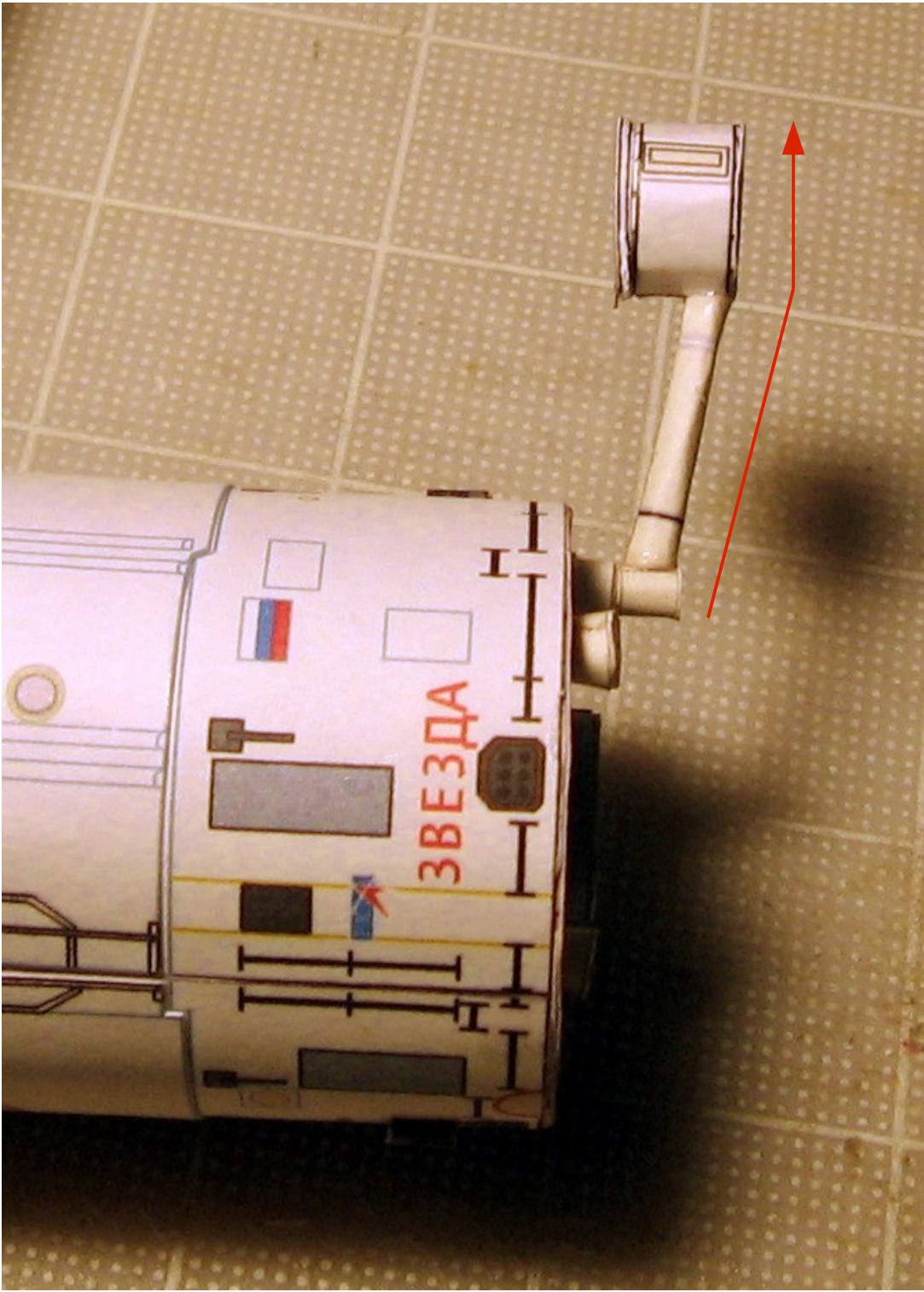


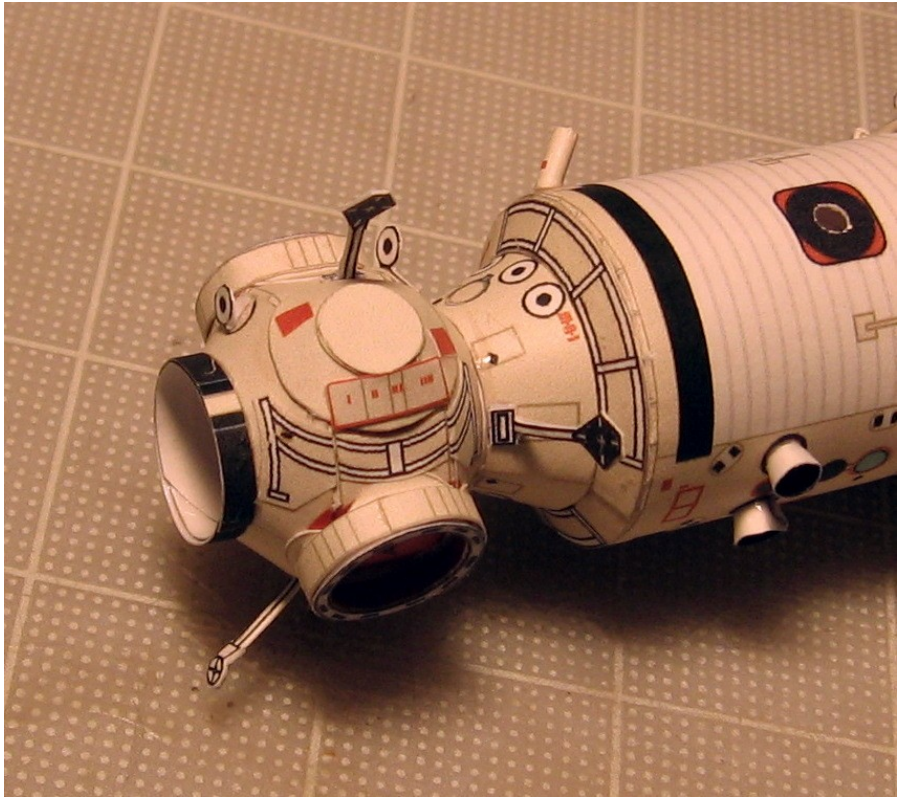
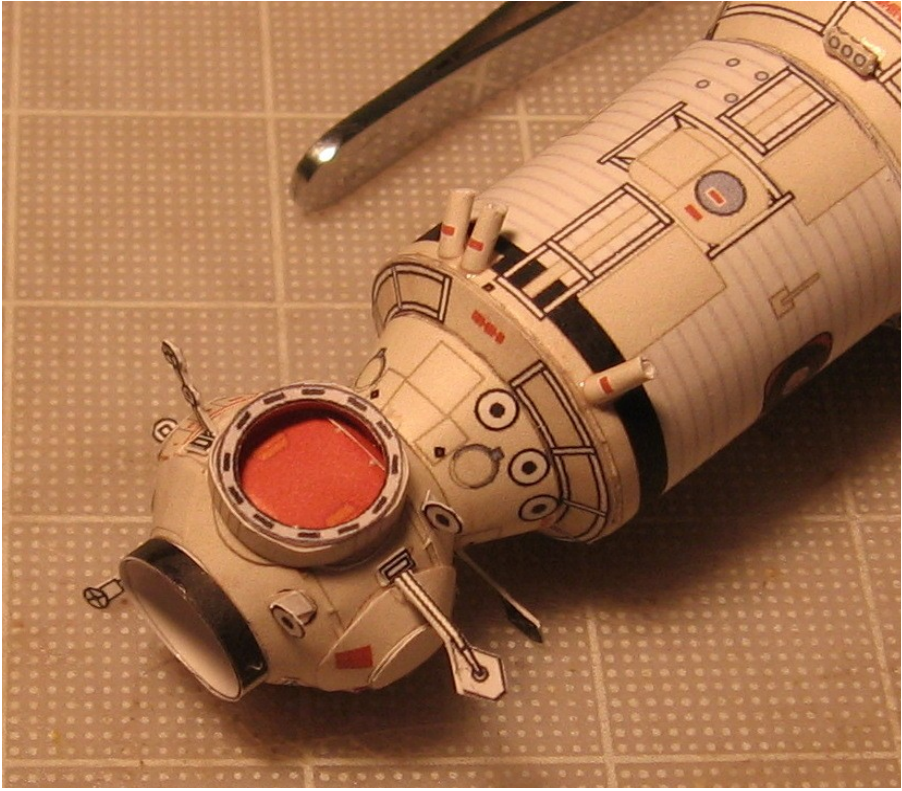


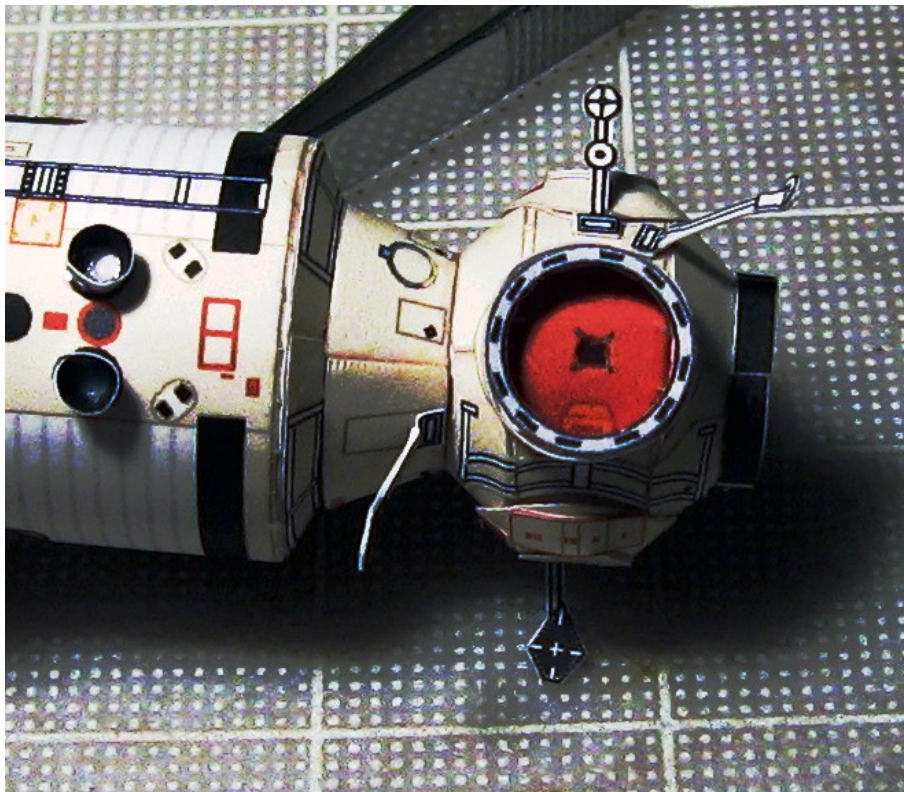
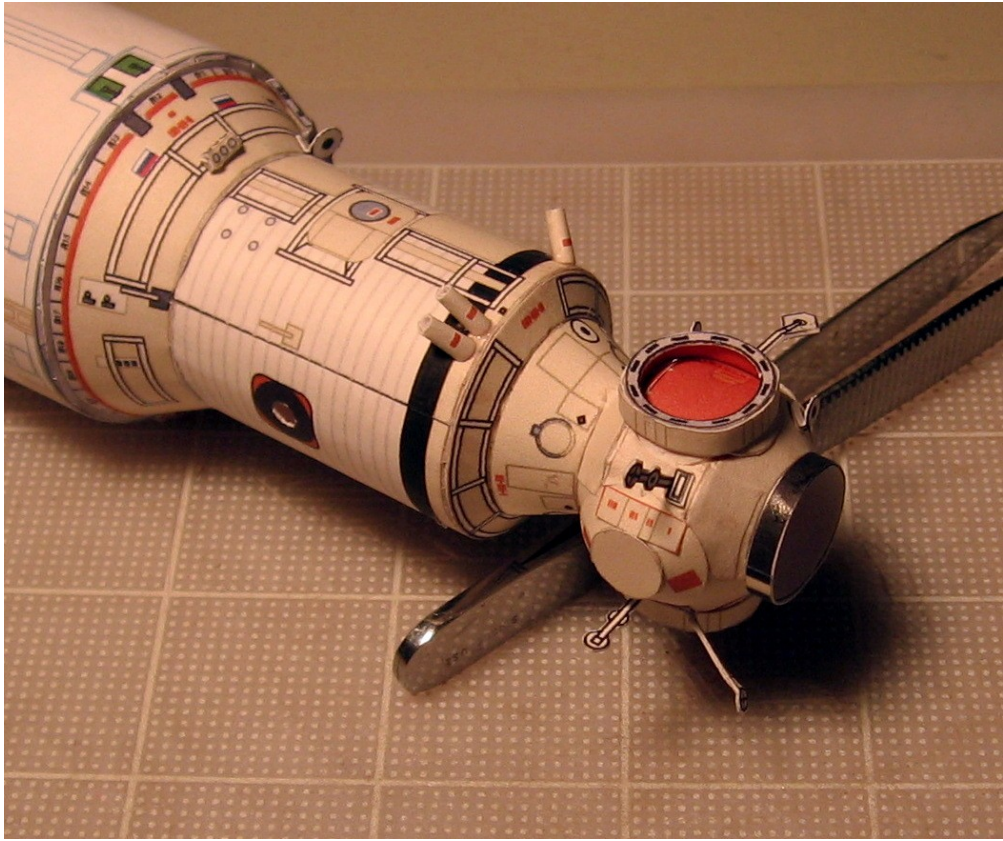


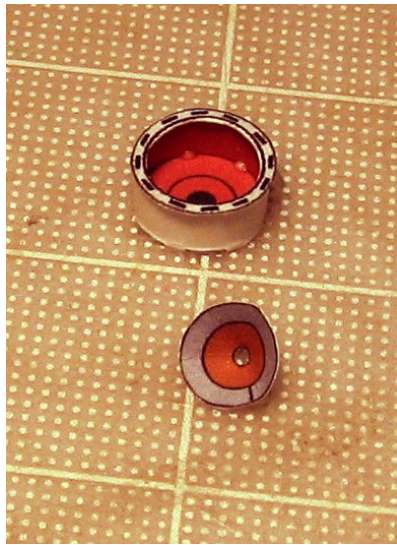




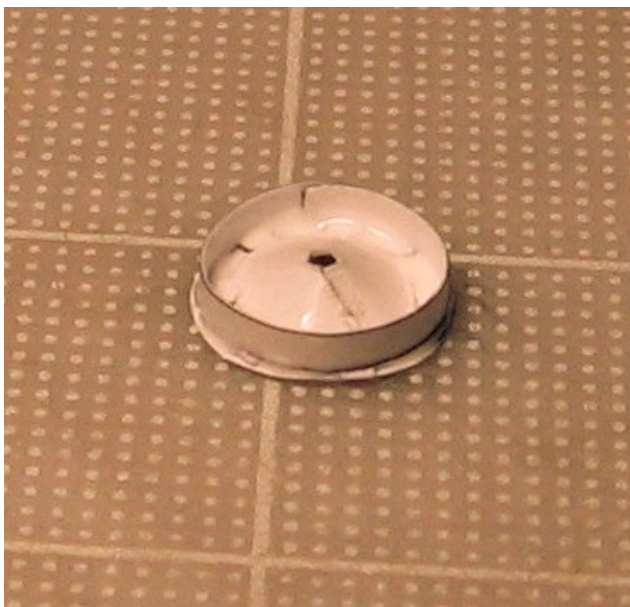
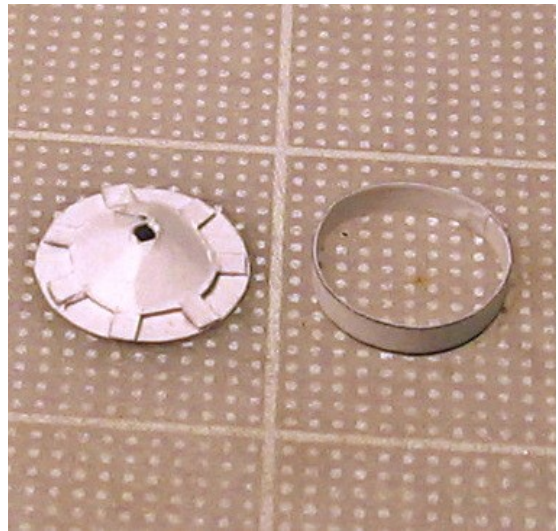
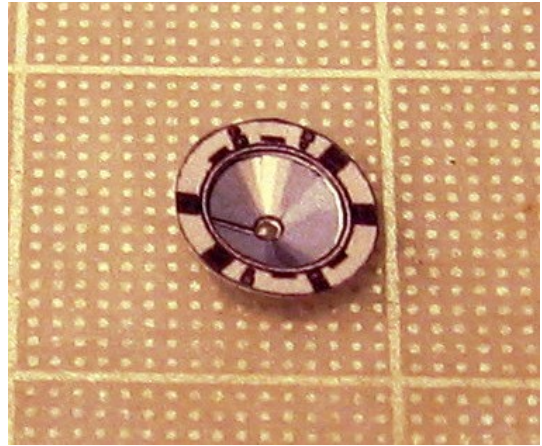
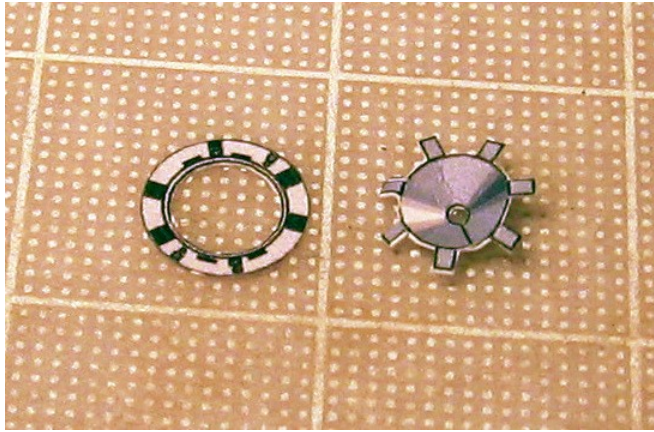




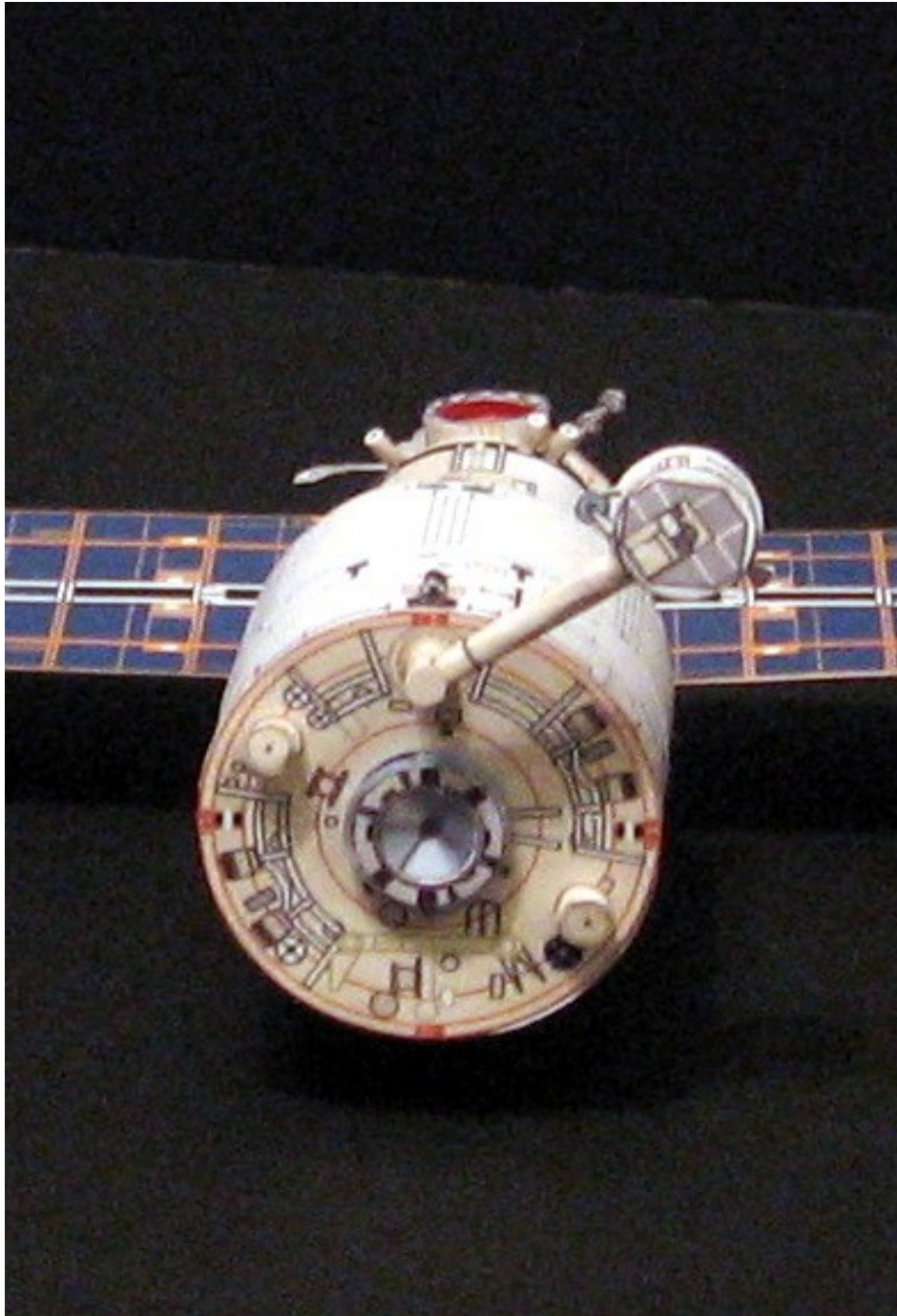




The front docking port of Zvezda is used only for cosmetic purposes. Do not glue it. It is designed to snap into the connector tube and to be removed.

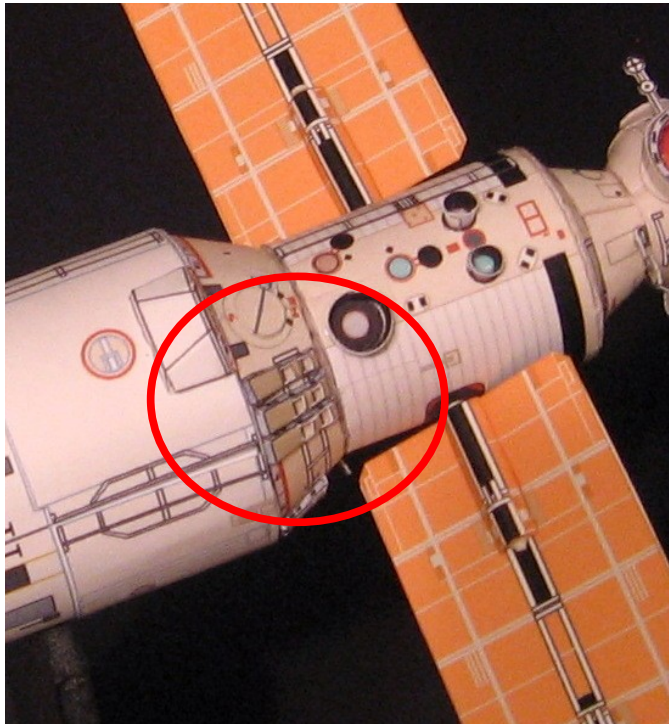




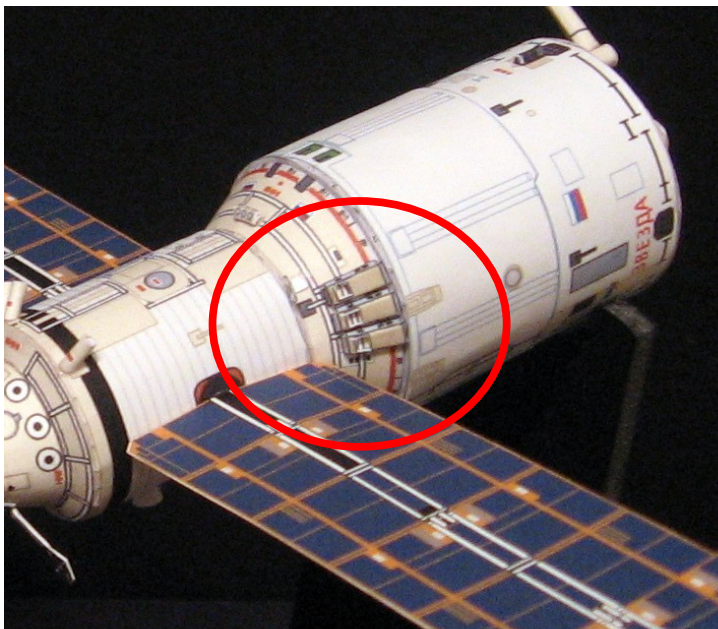


The aft docking port of Zvezda is used only for cosmetic purposes. Do not glue it. It is designed to snap into the connector tube and to be removed.

# Service Module Debris Panels Configuration #1 (Post STS-111 / Expedition 5 EVA)



Panels 1, 2  
and 3.

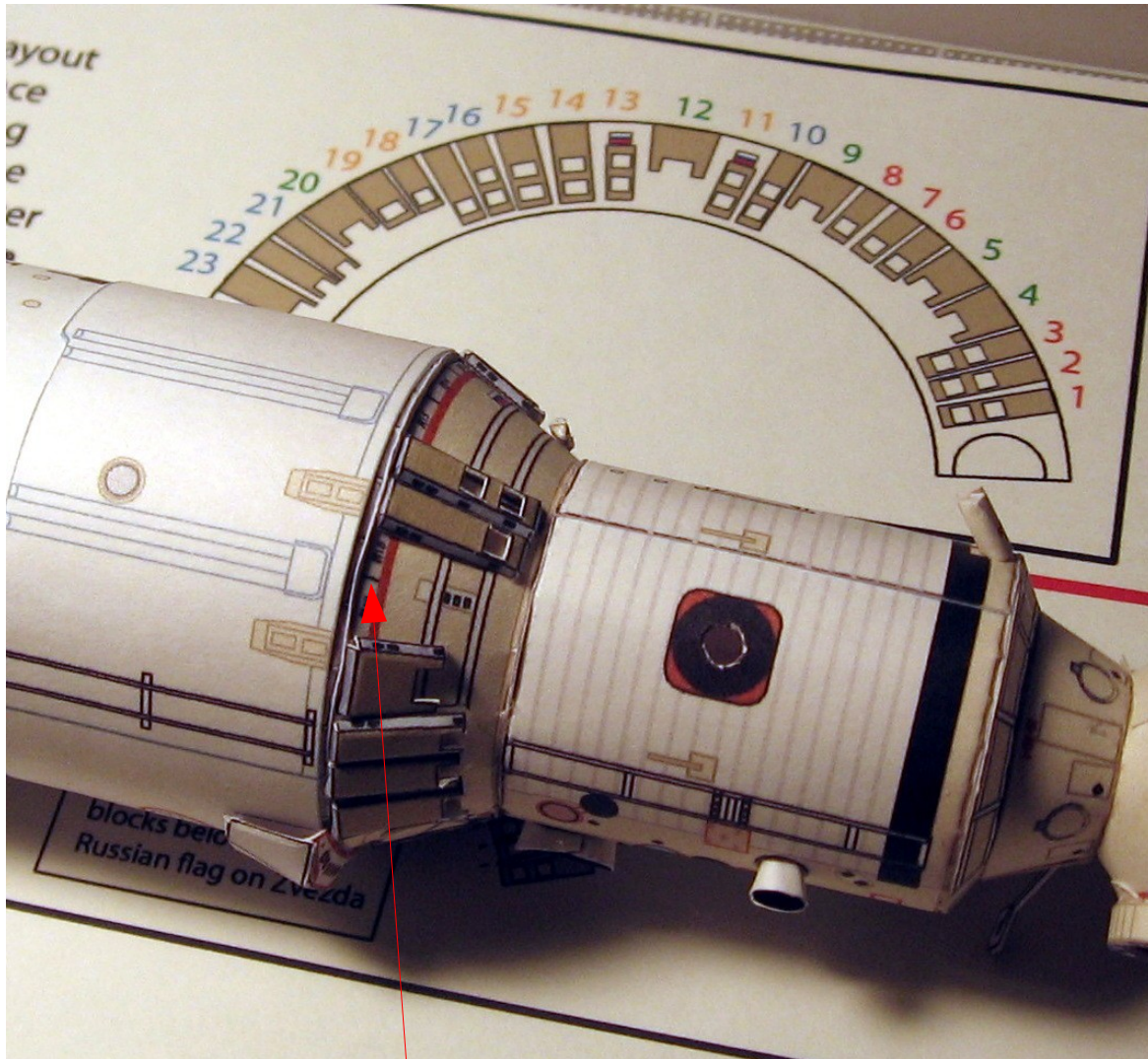


Panels 6, 7  
and 8.

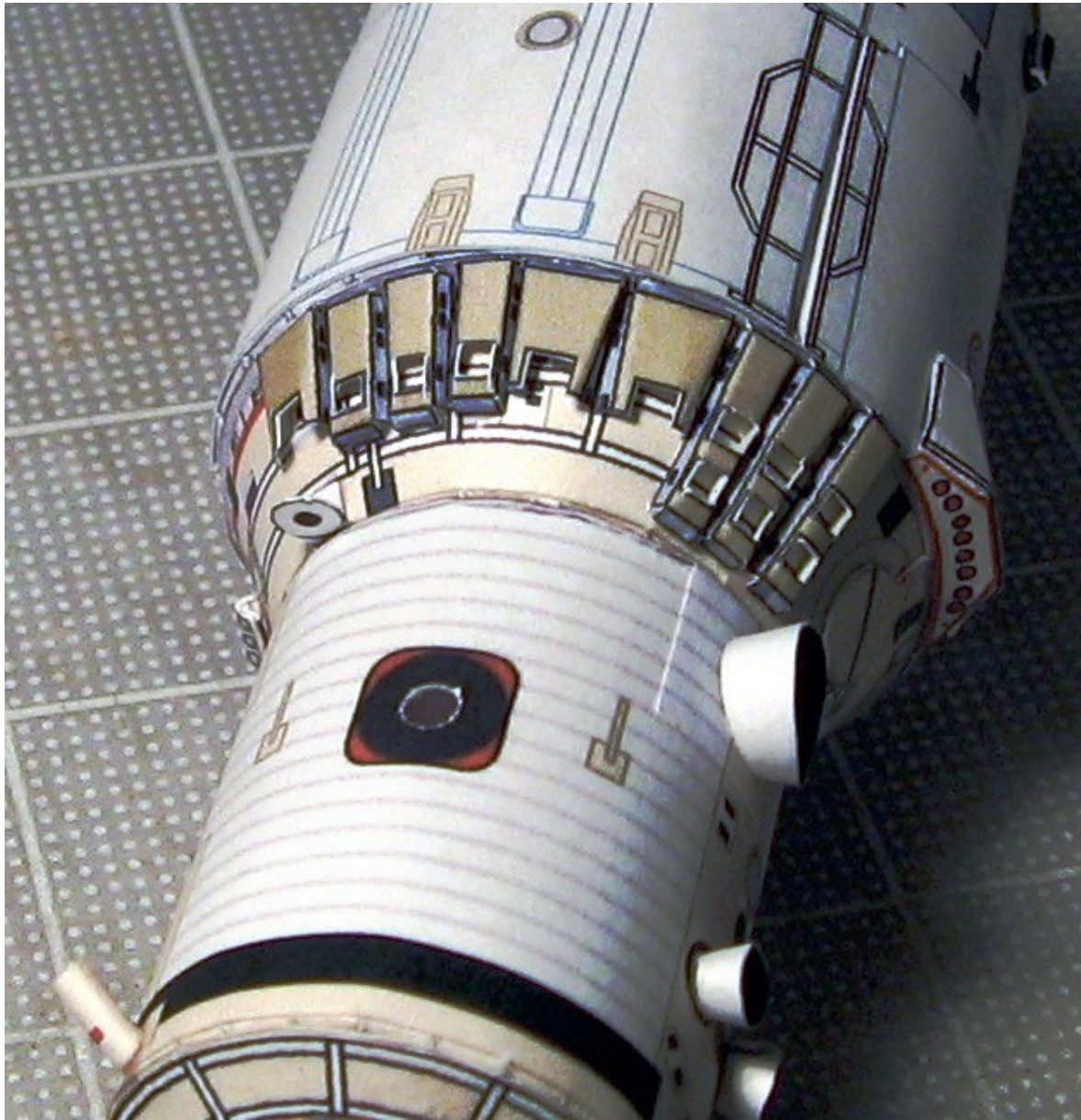
The Service Module Debris Panel kit is included in the STS-116 Mission package.

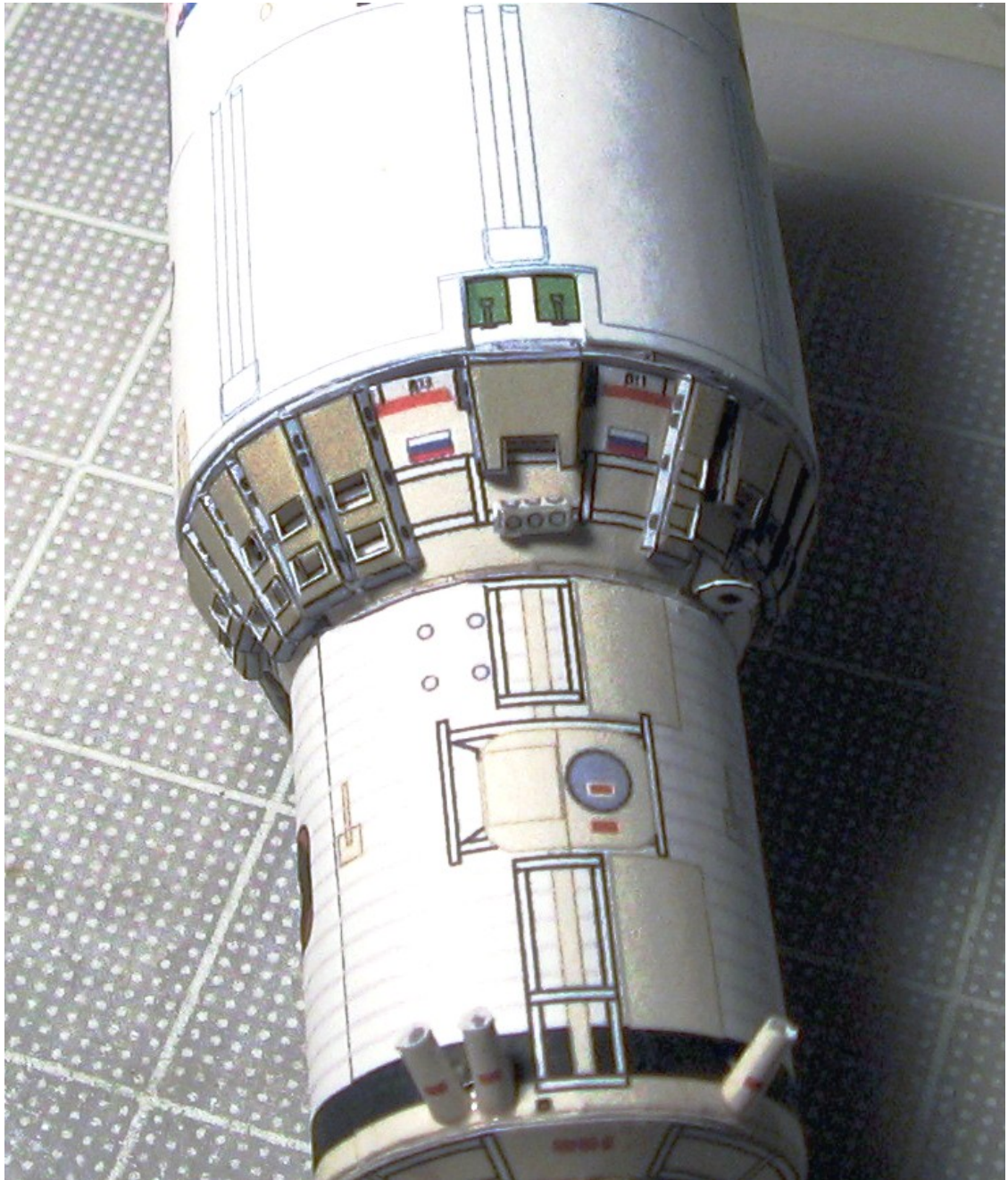
# Service Module Debris Panels Configuration #2 (Post STS-116 / Expedition 15 EVA)

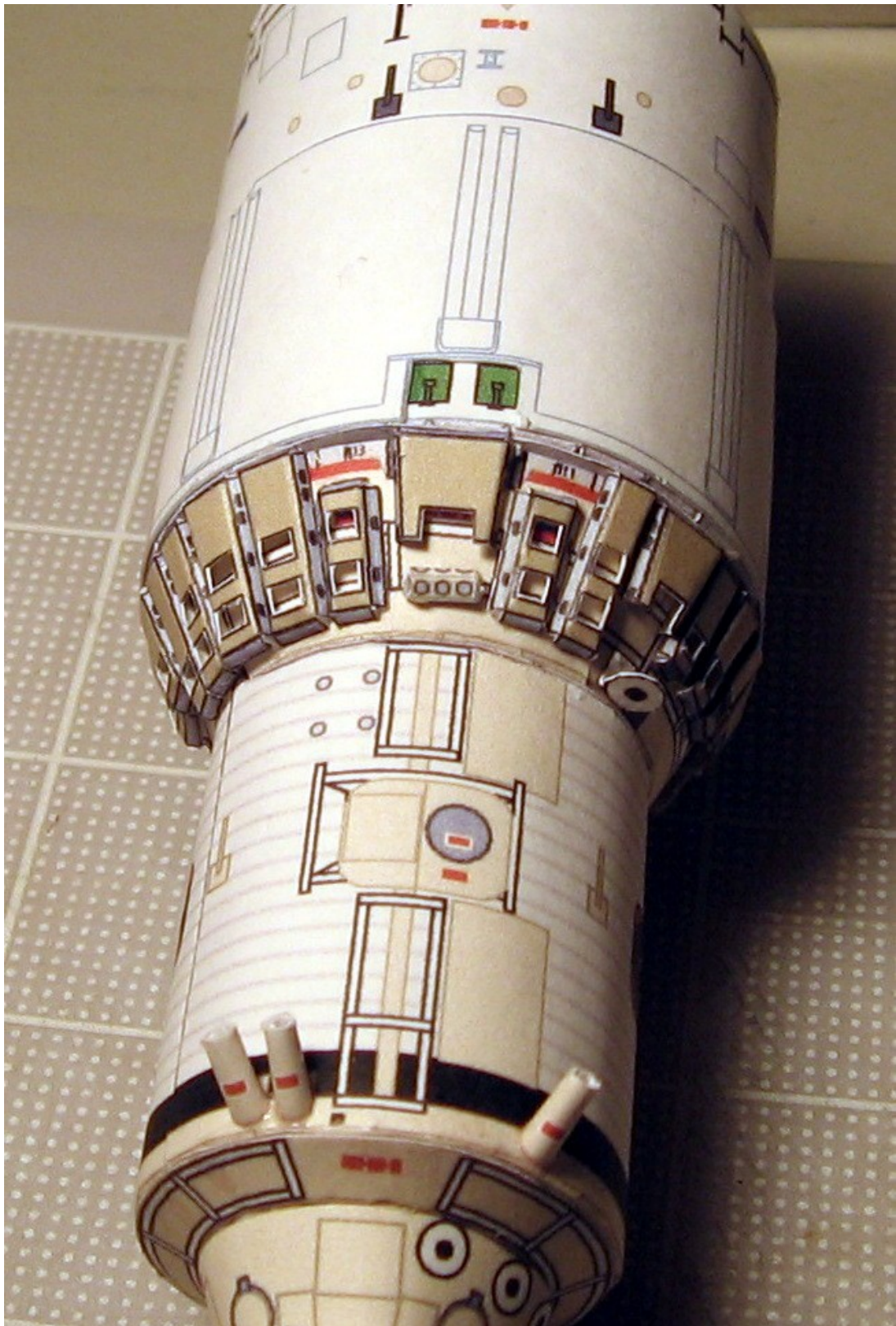
**Glue the rest of the panels**

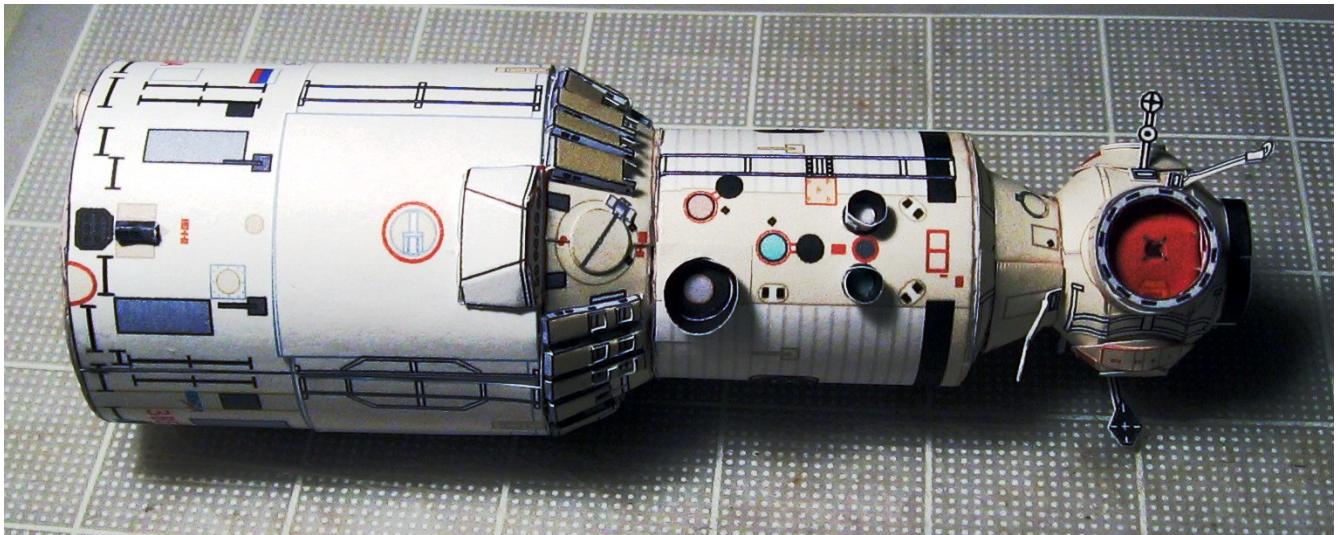
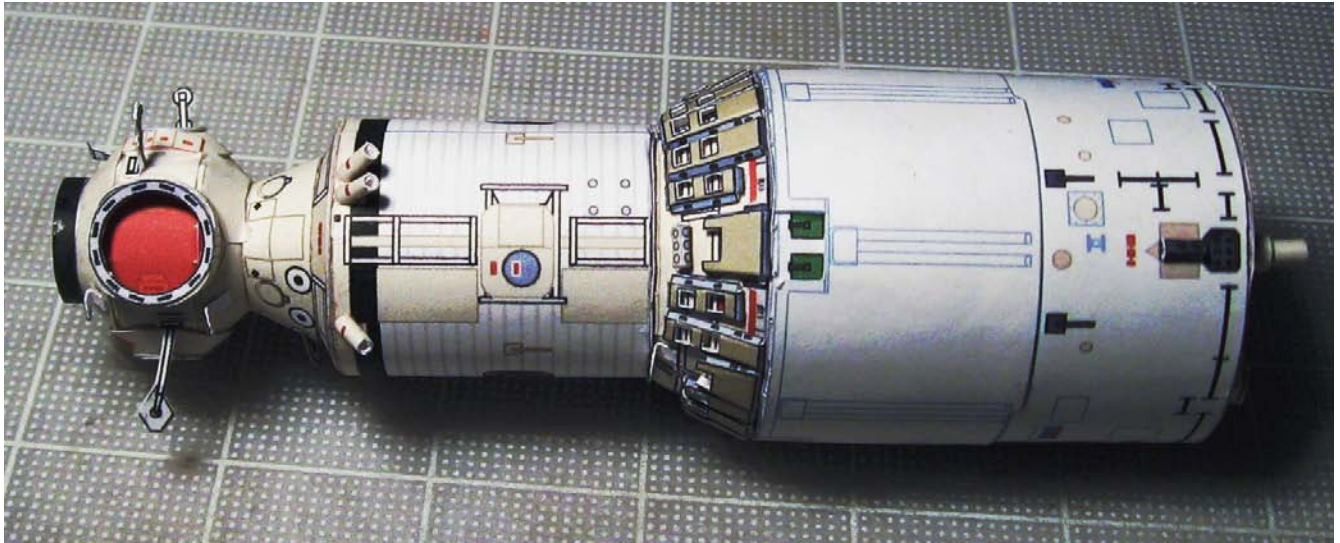


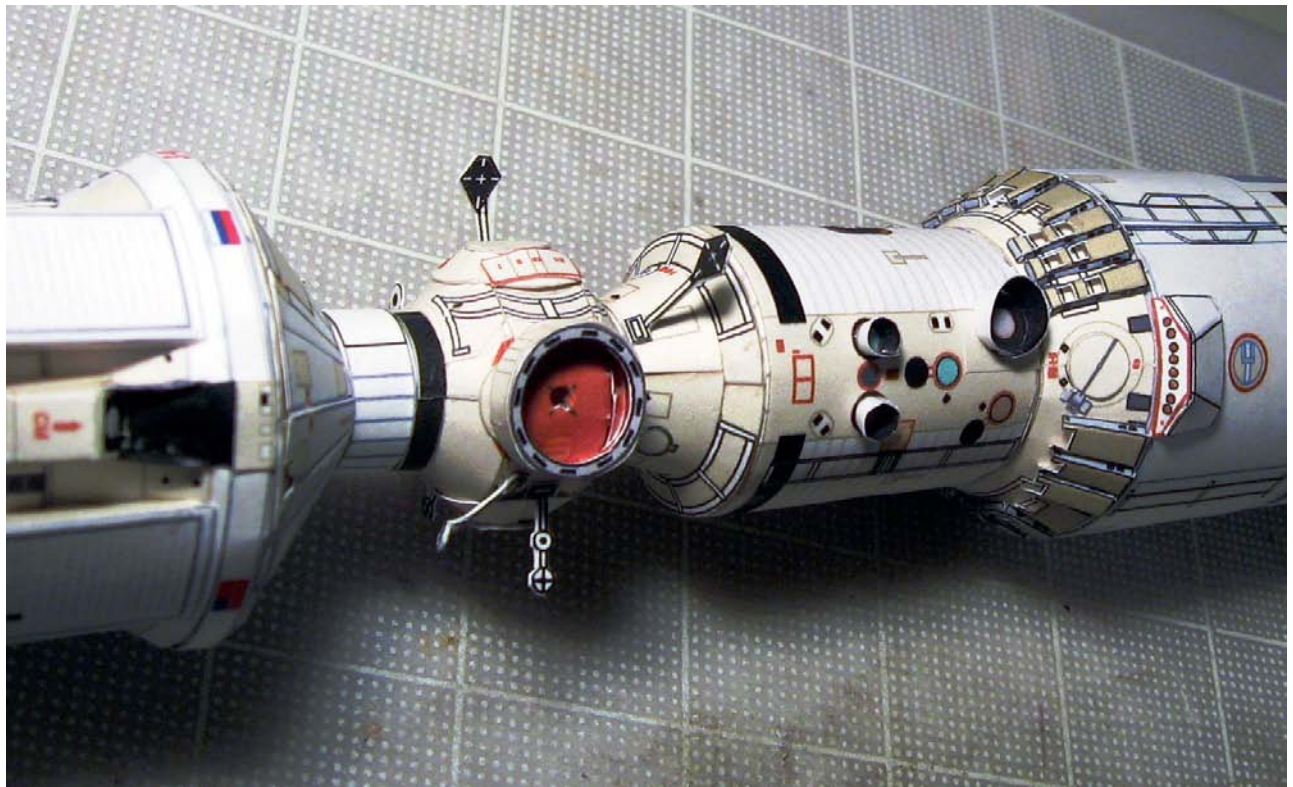
When gluing the panels, match each panel from the SMDP Layout with the numbers on Zvezda's large cone.





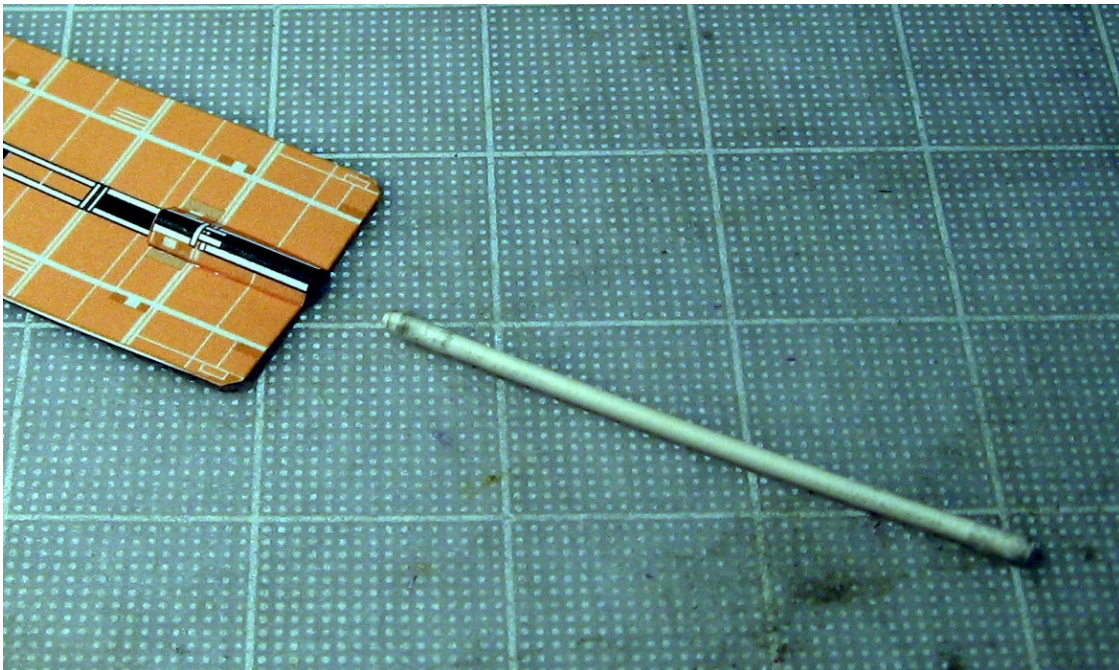
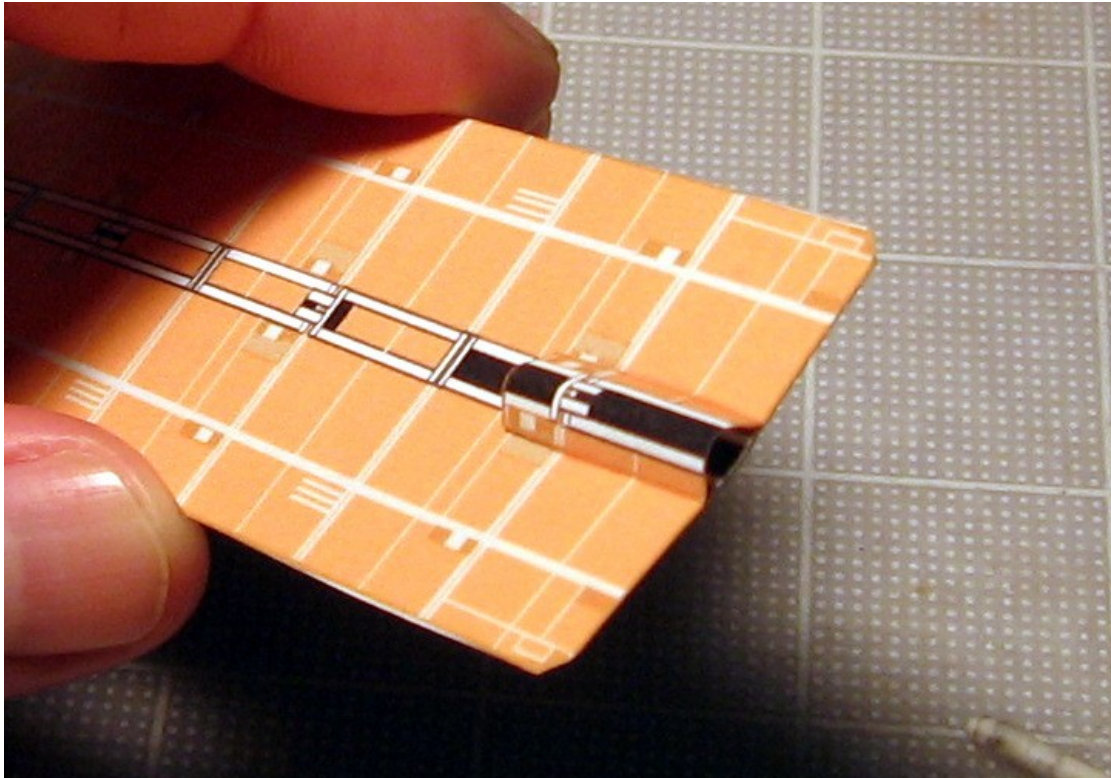




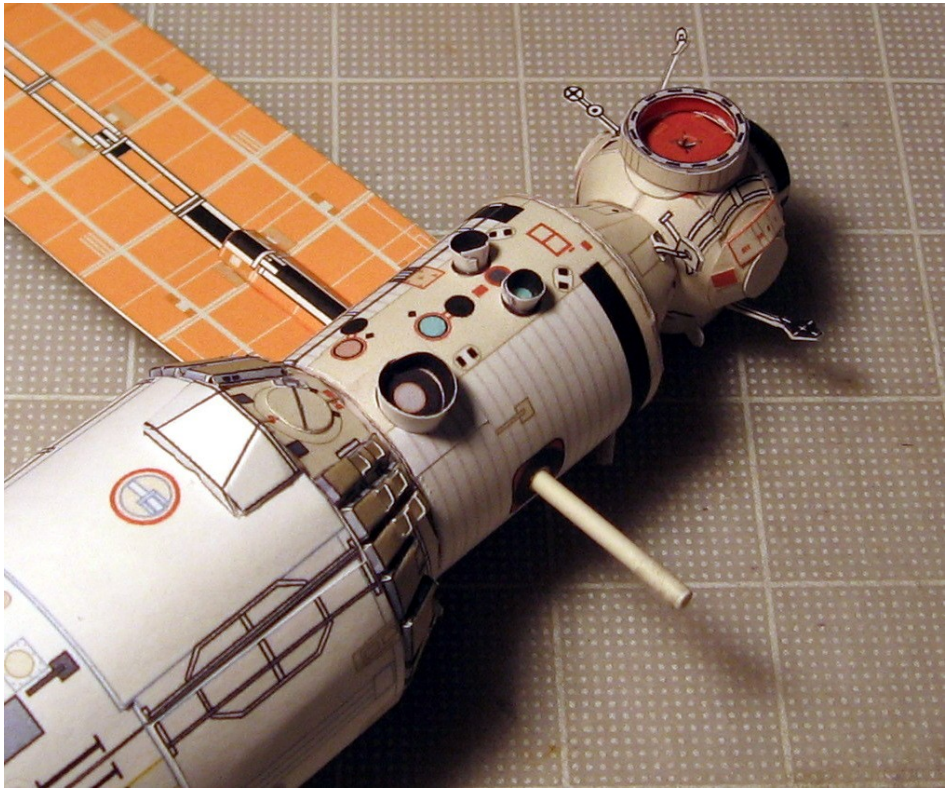
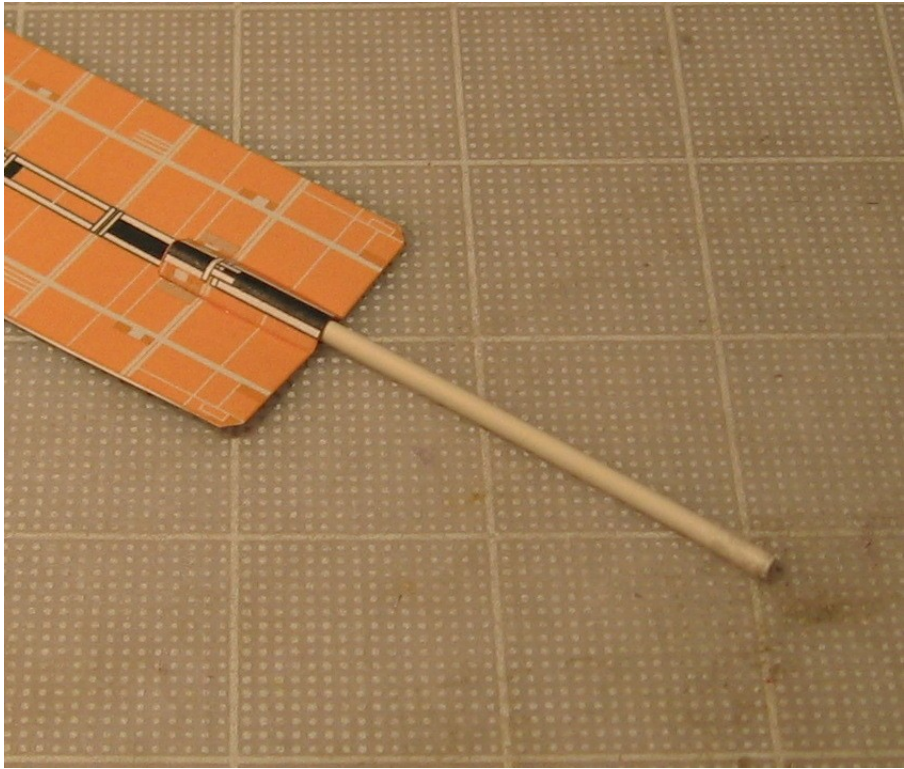


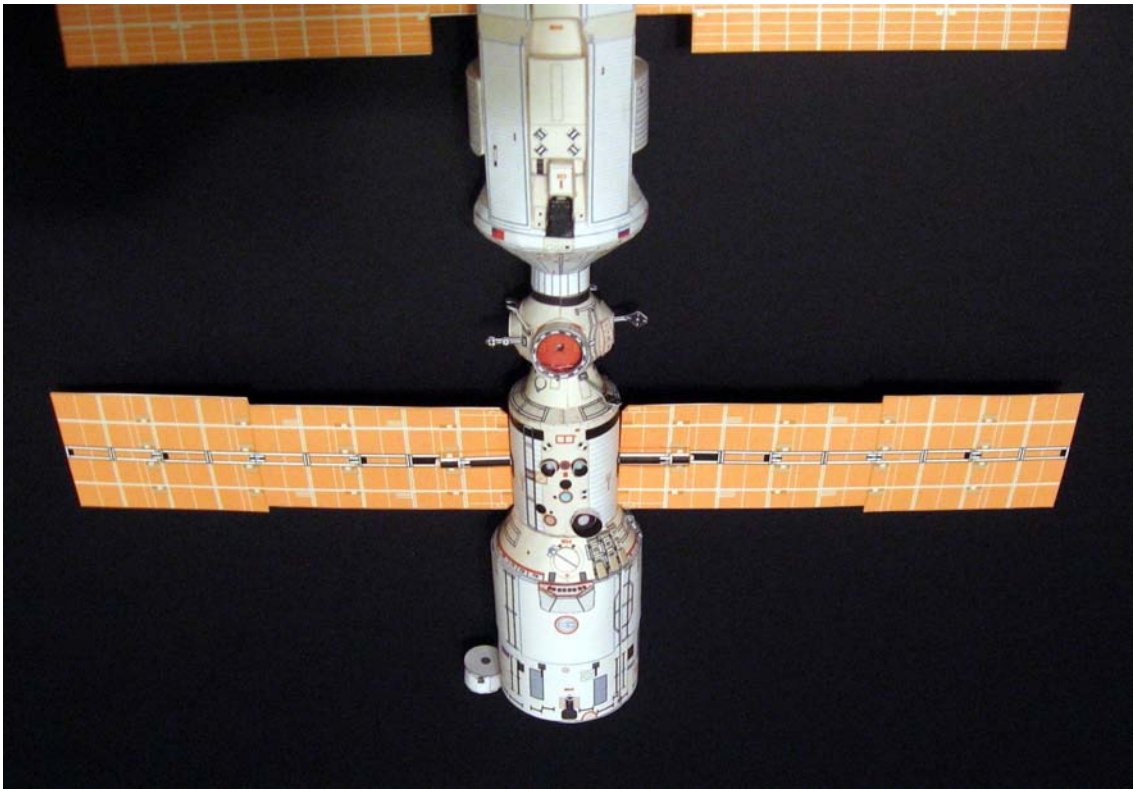
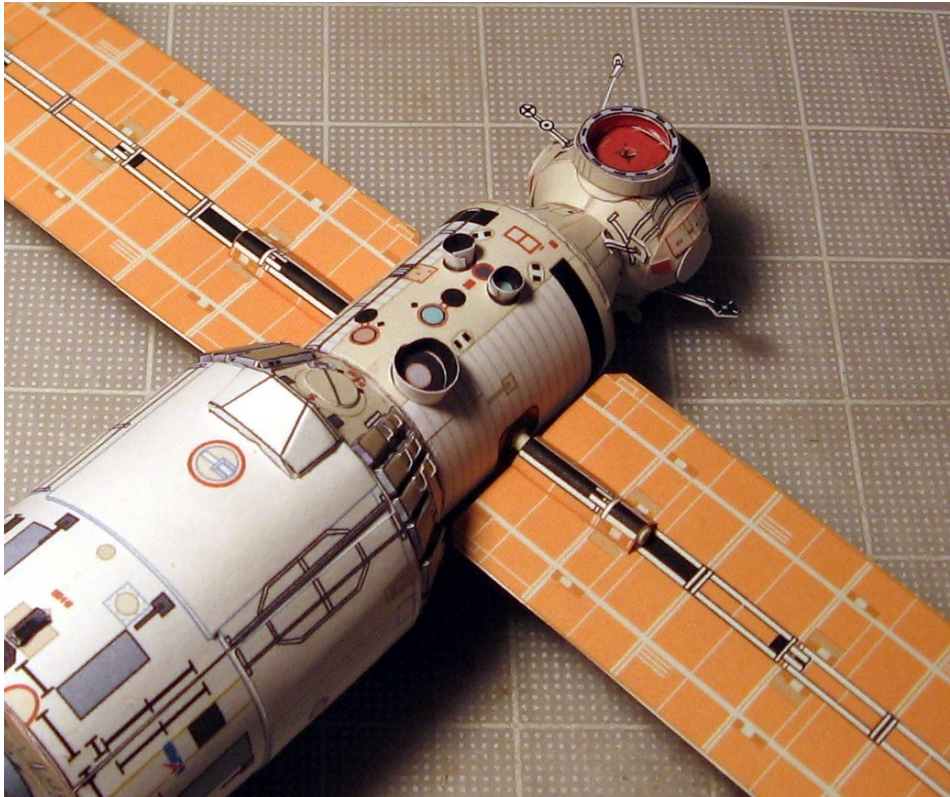


## Building the wings panels (use glue stick for the wings)

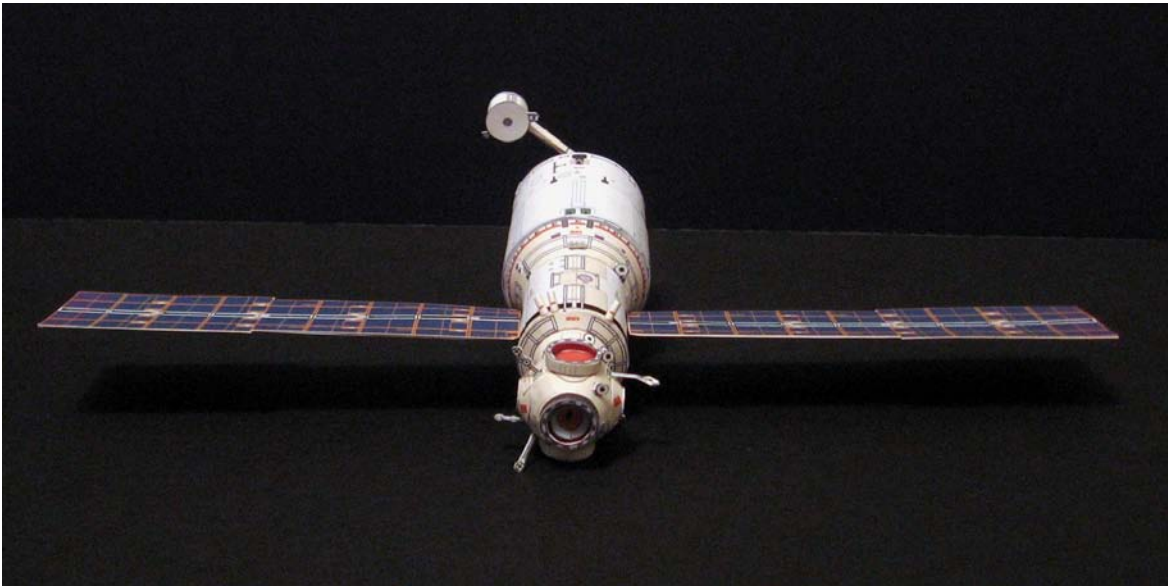


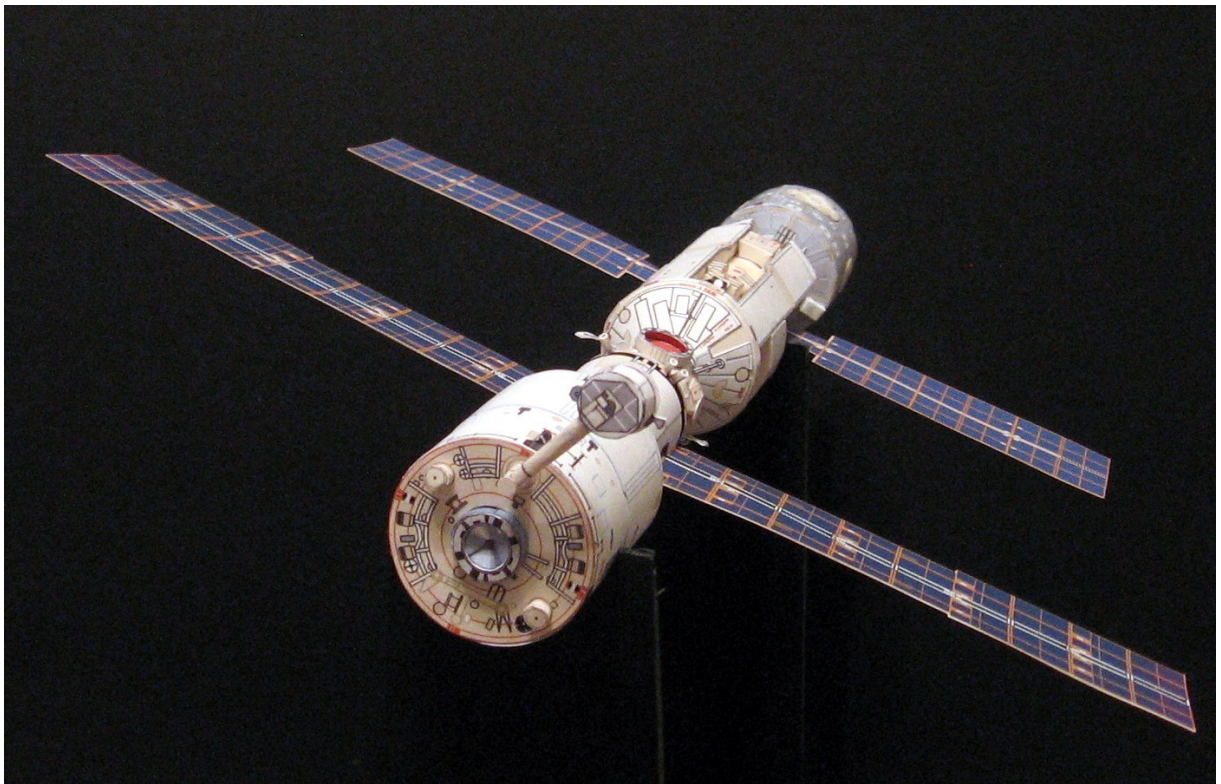
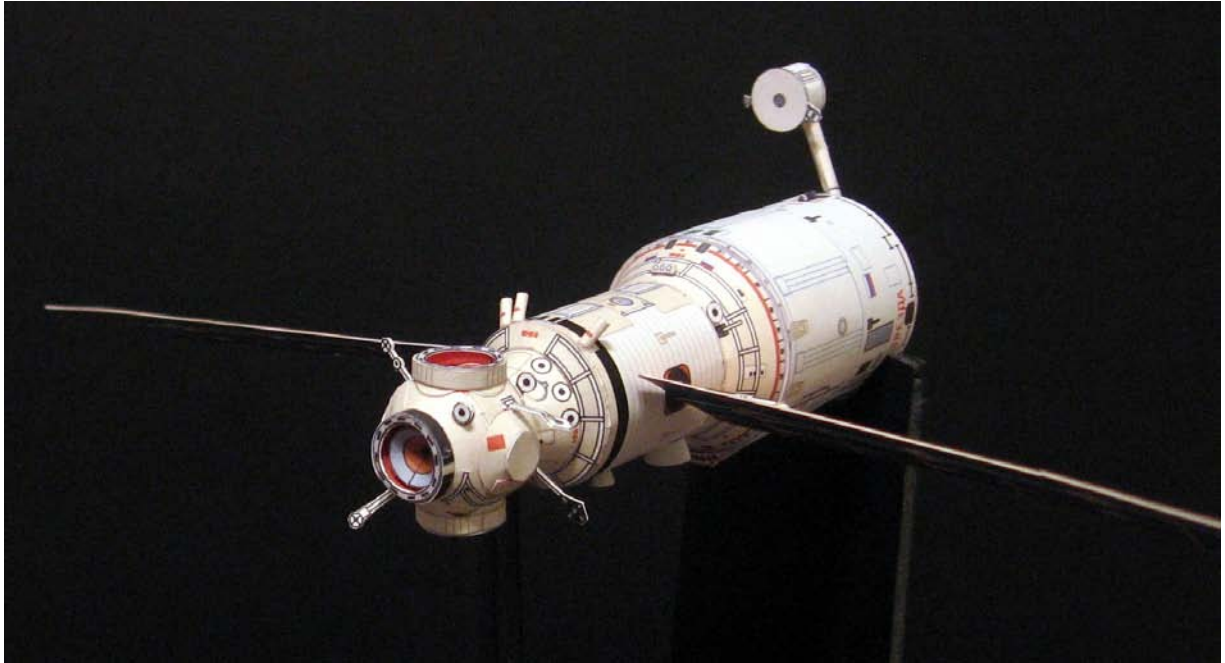
For the 1:100 scale model, use a 72 mm long cottonswab stick.

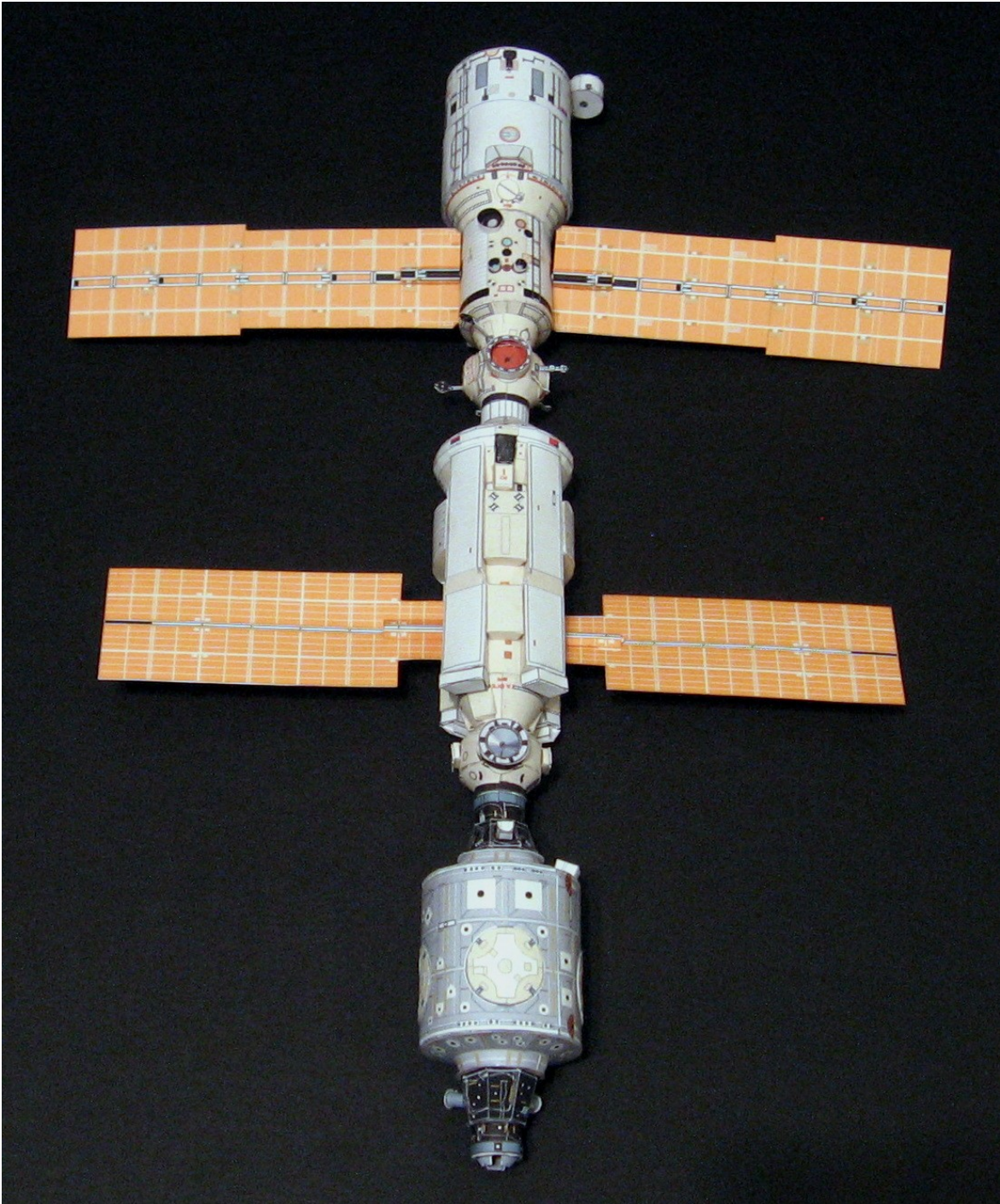


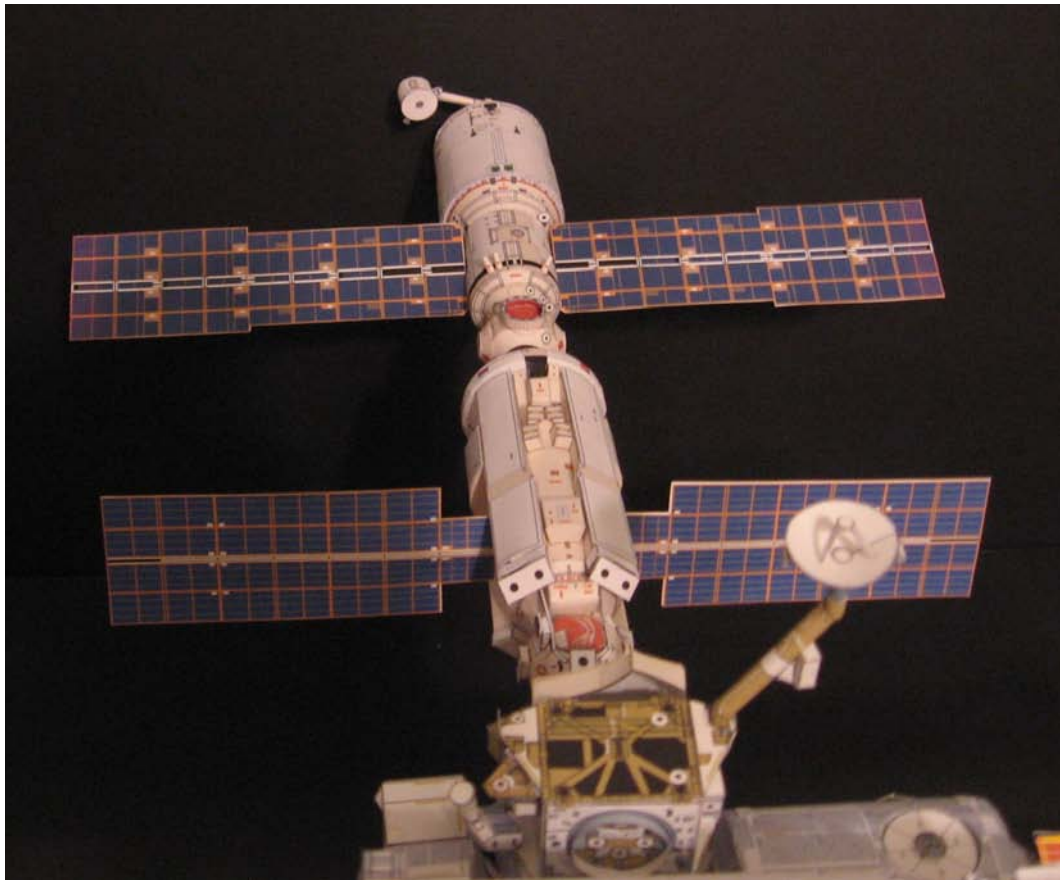
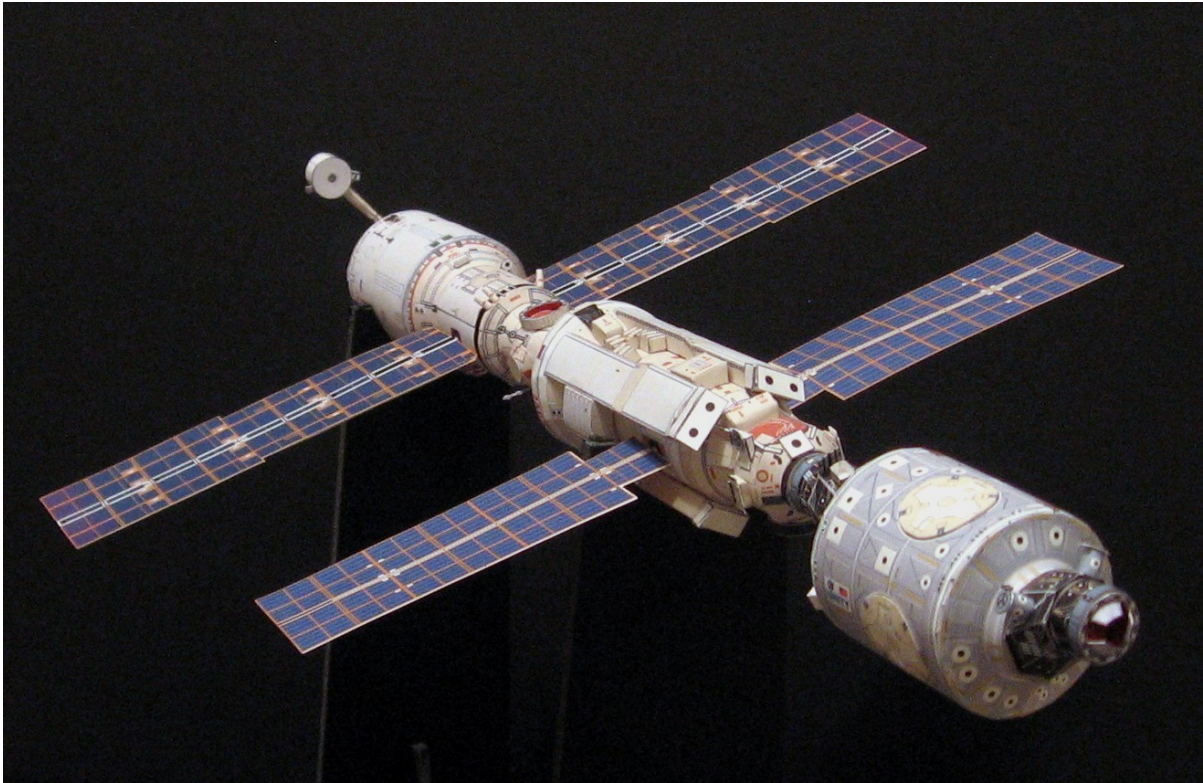


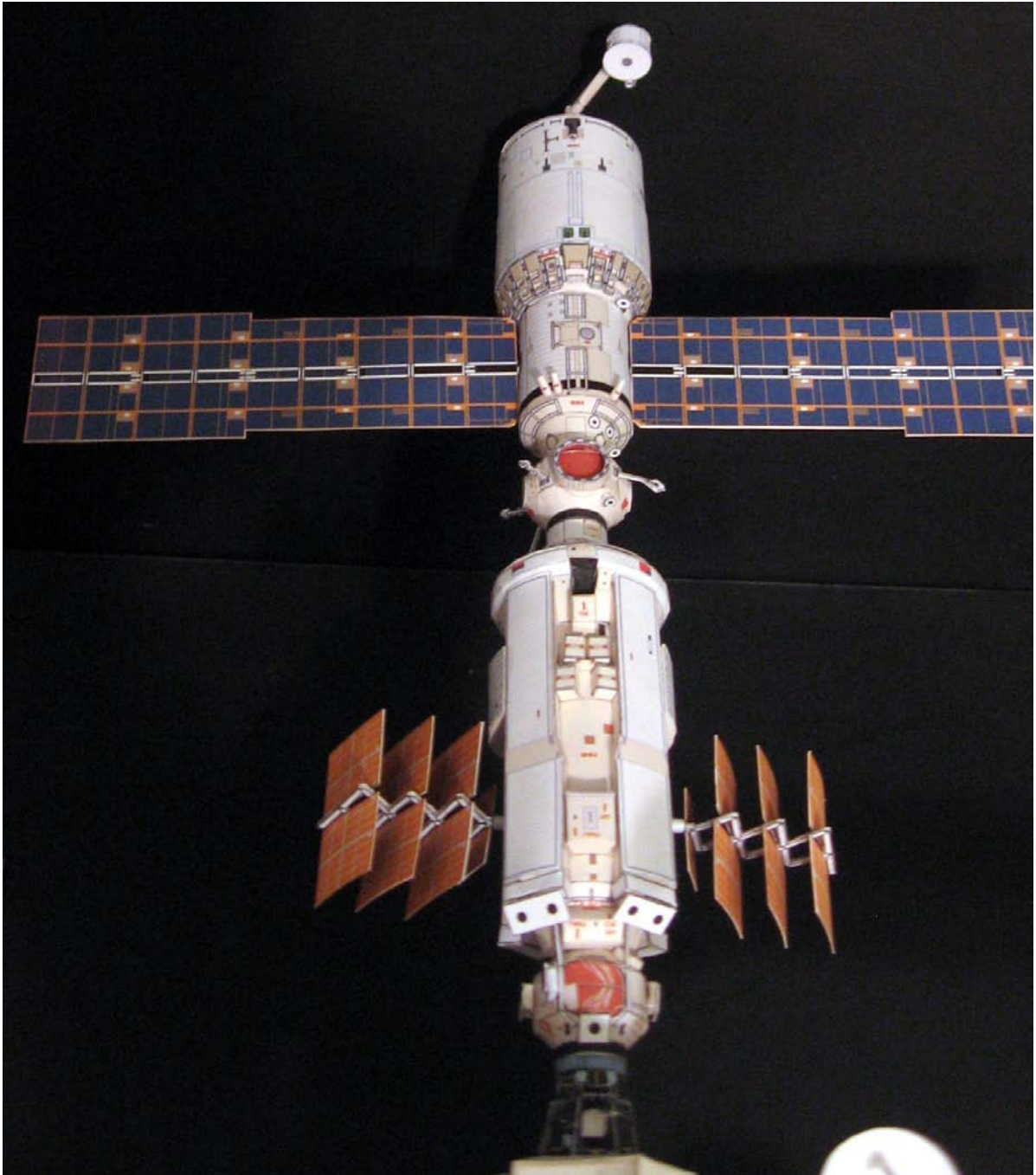
# Reference Photos











**Enjoy!**

<http://www.axmpaperspacescalemodels.com>





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## ADDENDUM

### Zarya and Zvezda Russian Modules Assembly Instructions

**Correct**

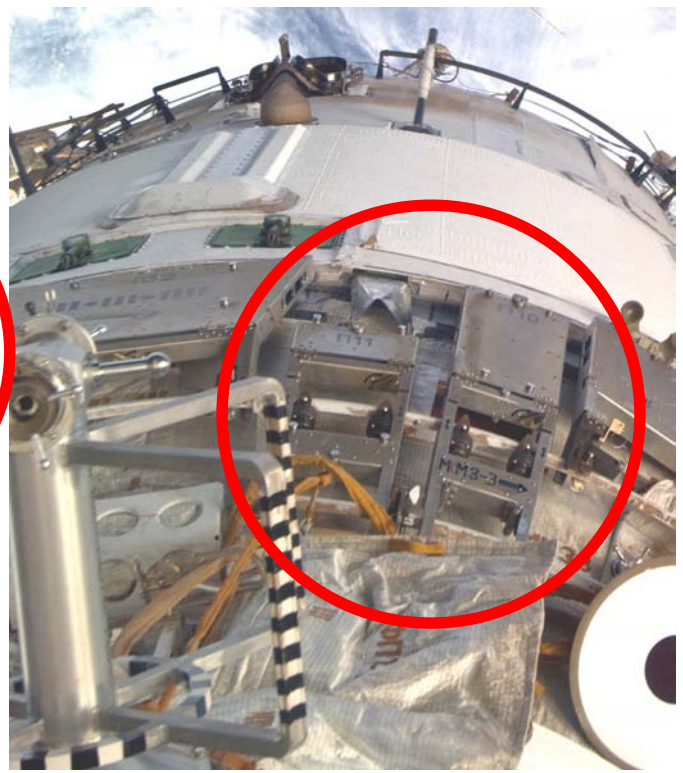
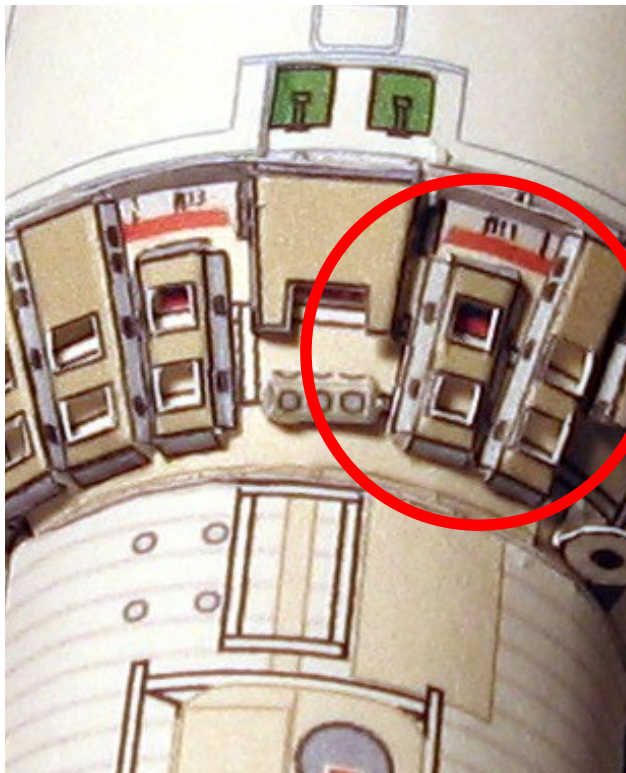
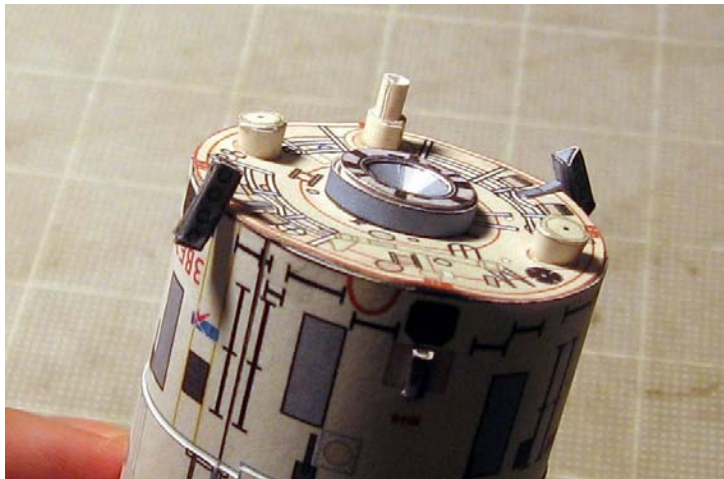
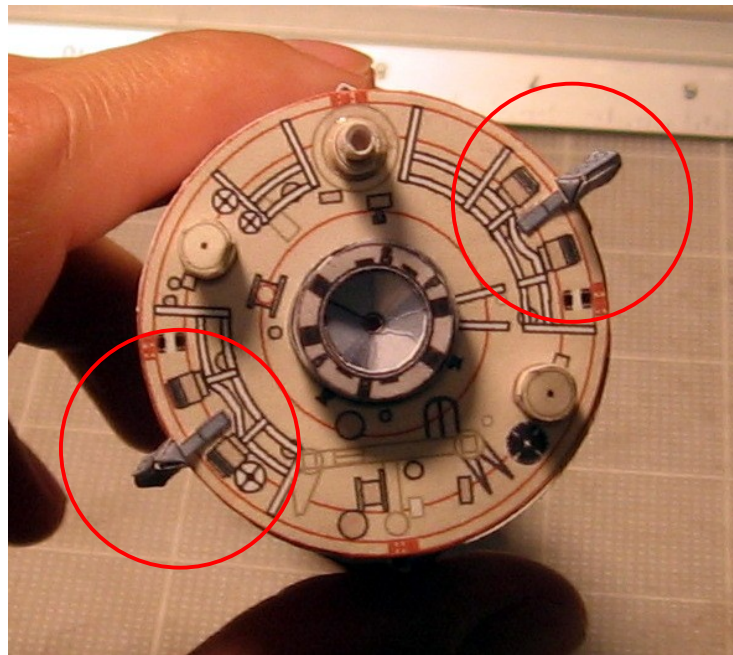


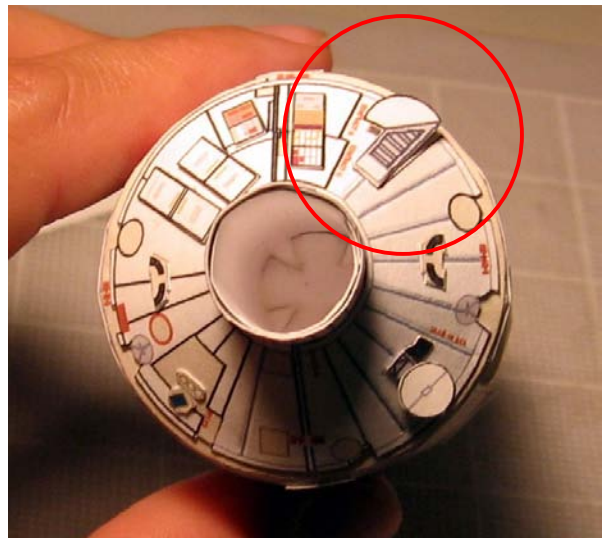
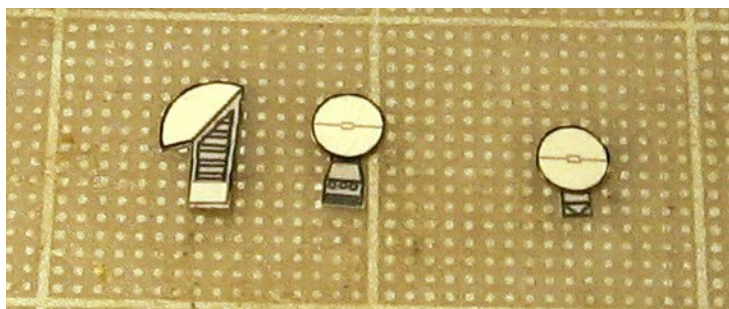
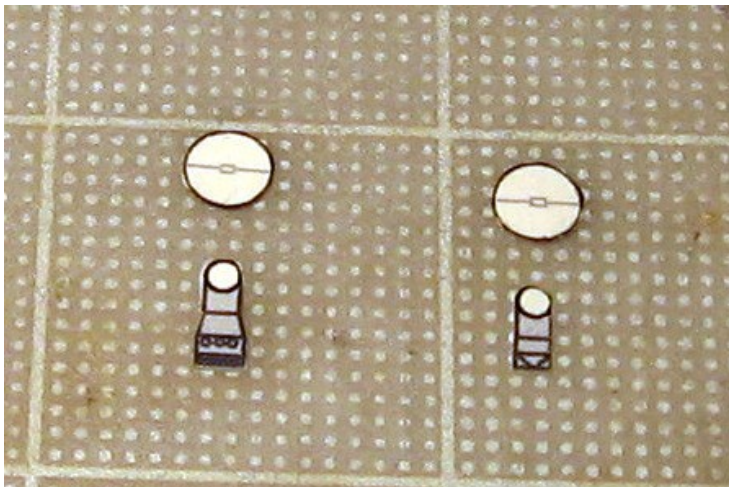
Photo on the right is a real NASA photo of Zvezda showing part of the Service Module Debris Panels. Notice how the Russian Flag is totally covered by the longest panel, while on the left the model shows how the flag is covered by the small panel, which is the incorrect configuration.

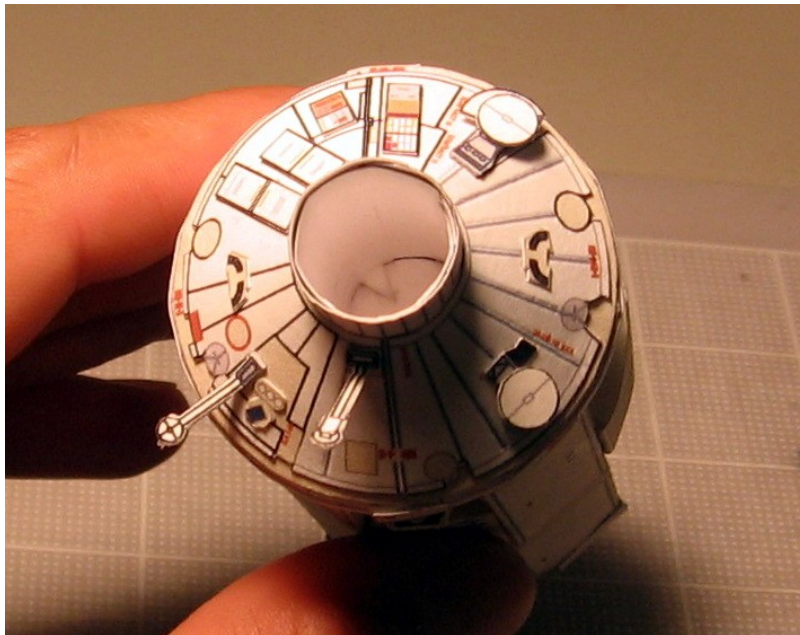
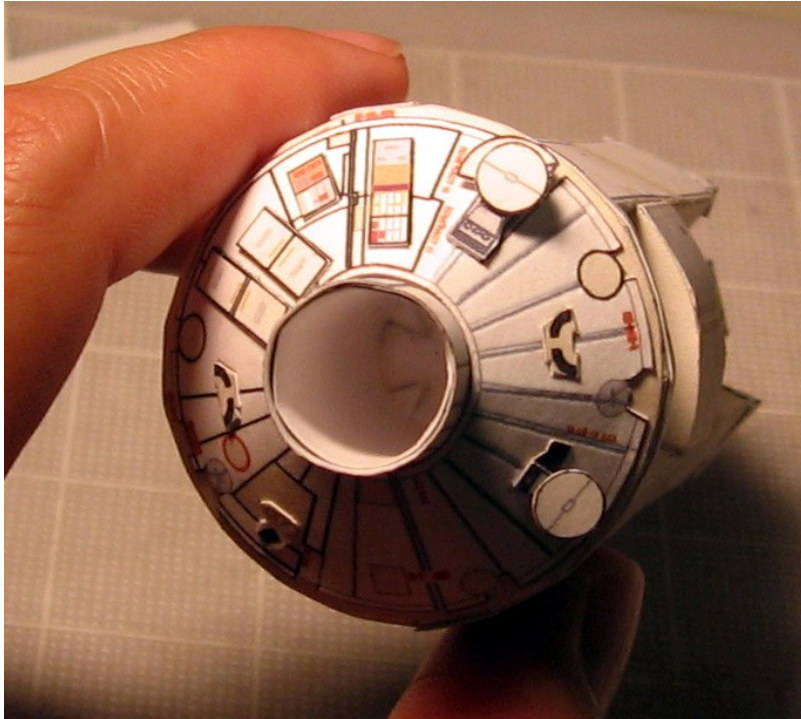
The SMDP layout (STS-116 mission kit) has already been updated and corrected.

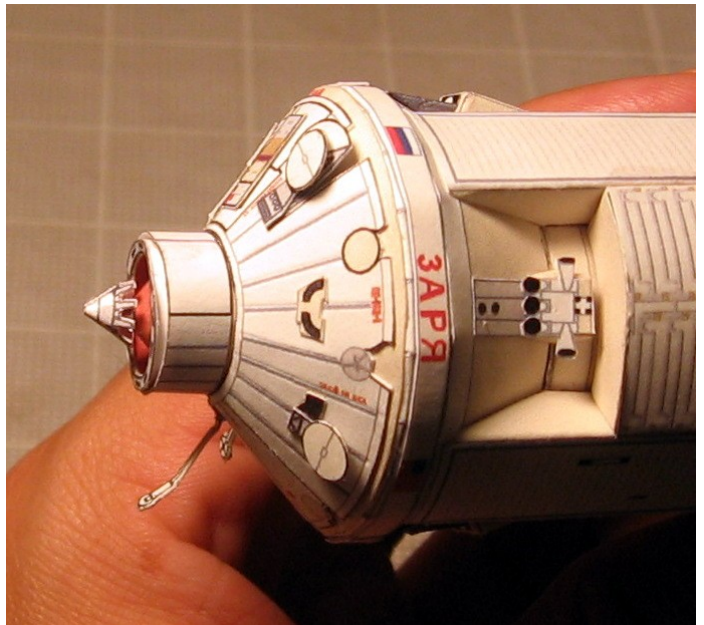
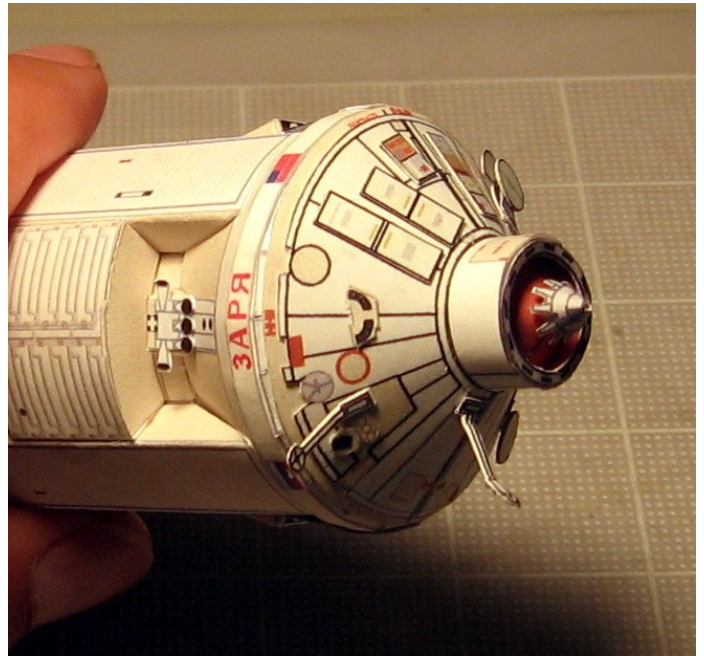
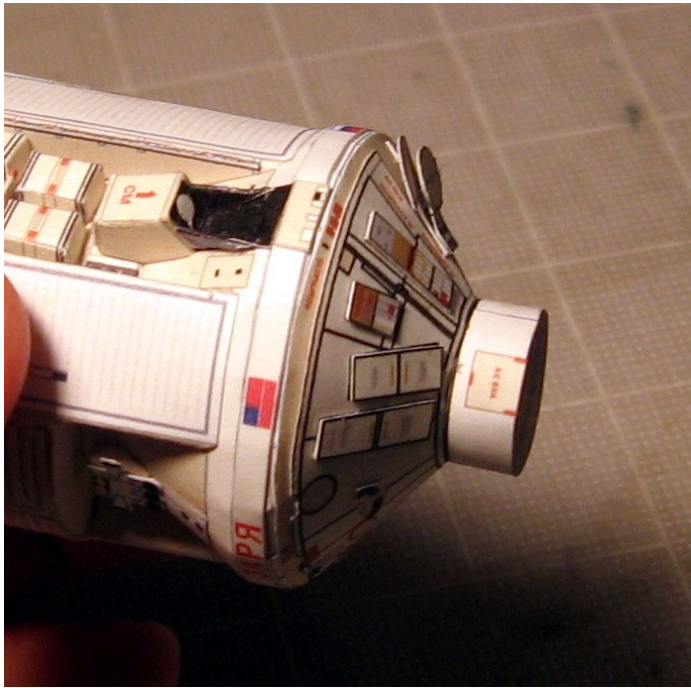
**Installing the REGUL antennas on ZVEZDA aft section**



# Installing panels and antennas on ZARYA aft section







**Thank you!**

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