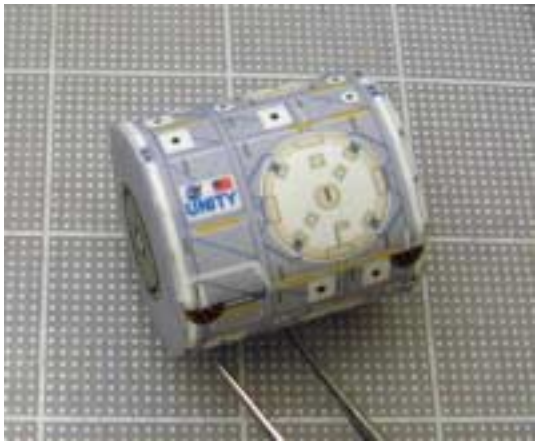
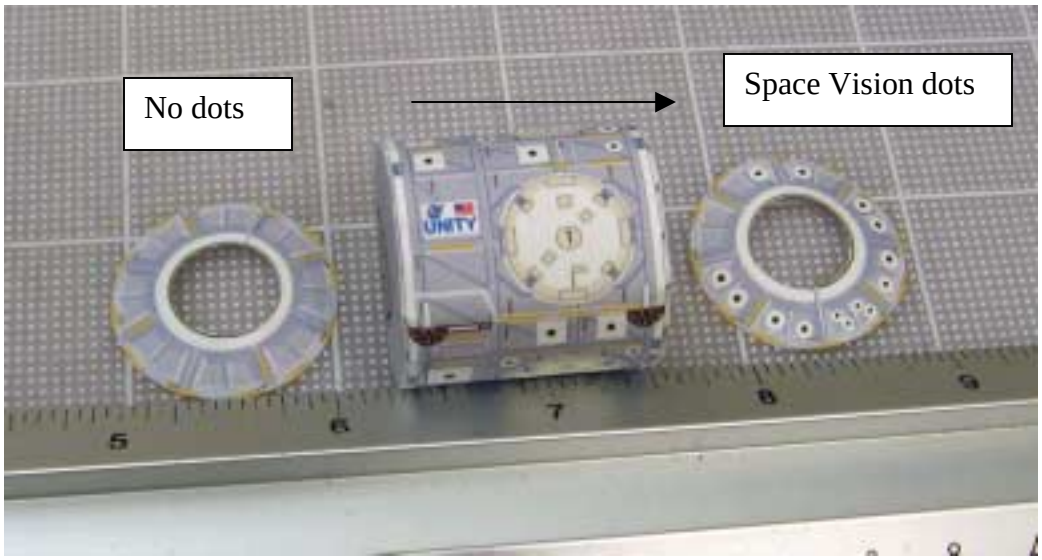
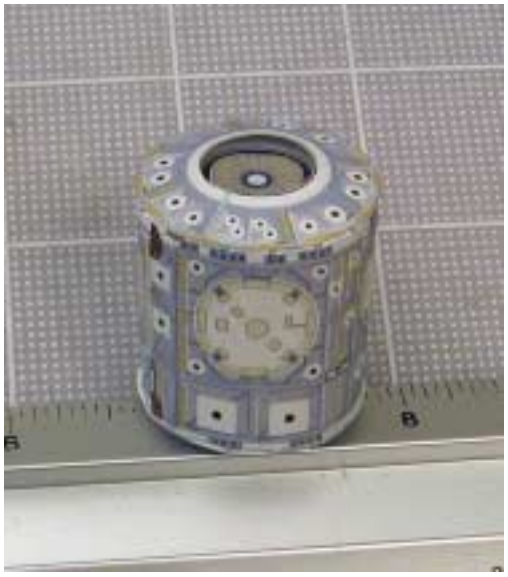
Building "UNITY" Module



The module is a simple cylinder easy to build. See photos for reference how the pieces go together. Third and fourth photos indicate how the dot markings are aligned on both ends of the module. Use logo as reference.





Building the PMA's (Pressurized Mating Adapters)

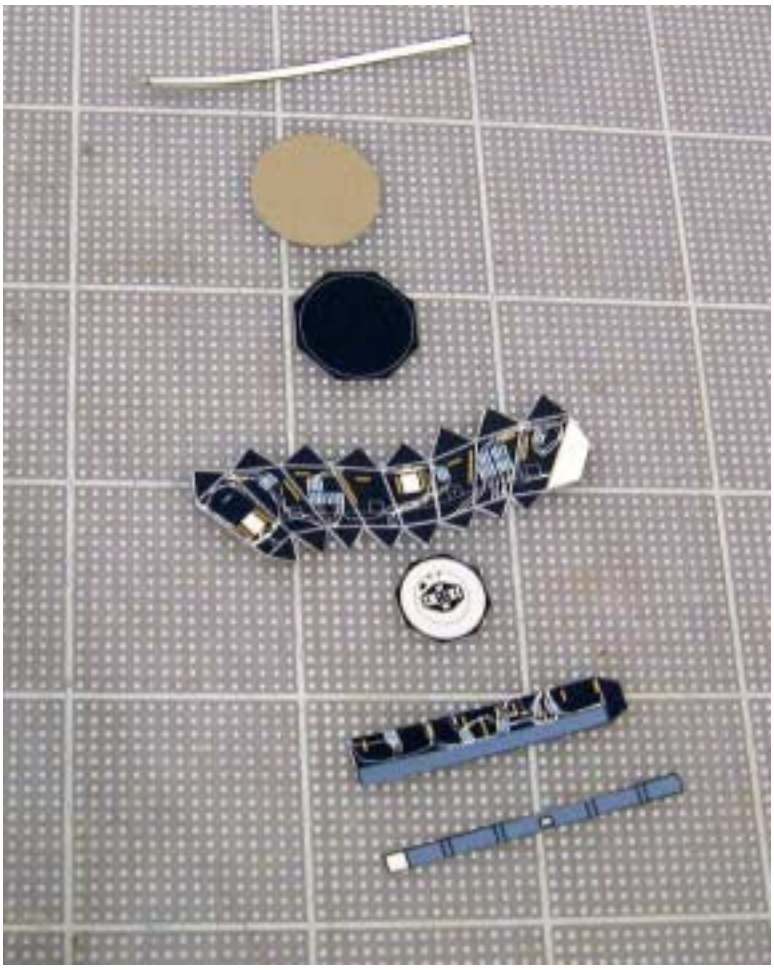
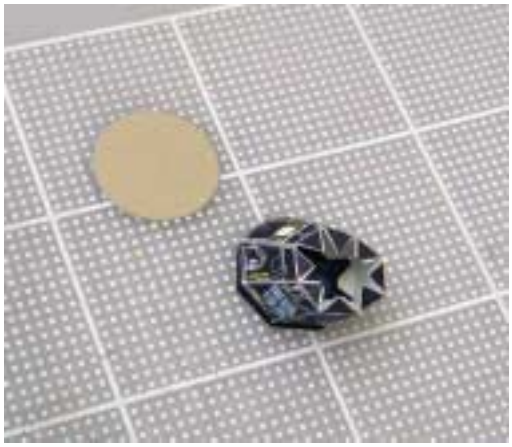
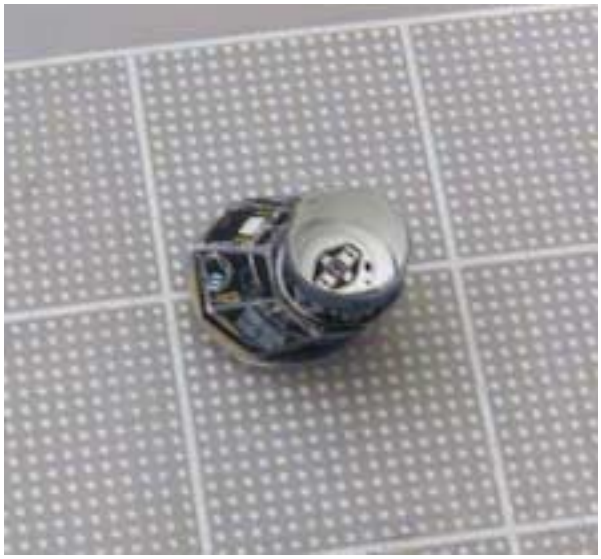
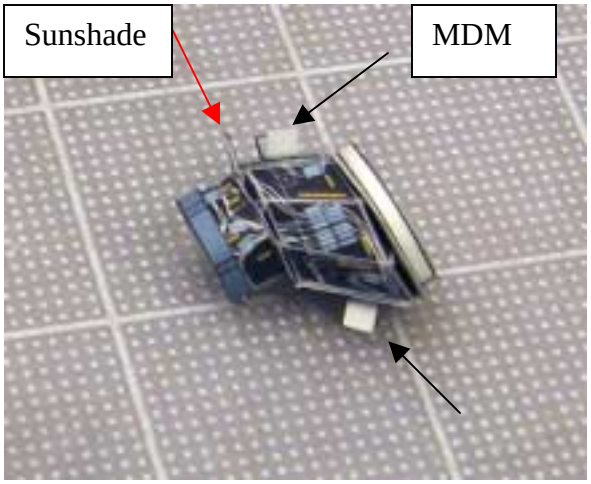


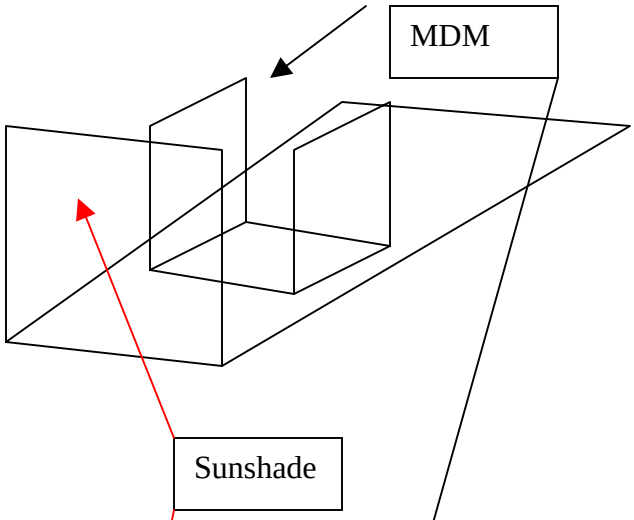
Photo shows the sequence of the parts to build a PMA.

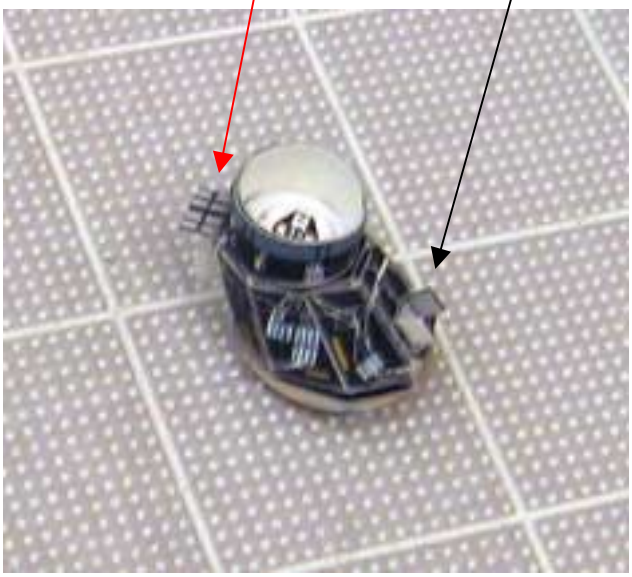
PMA-1 (Attached to Zarya Russian module)



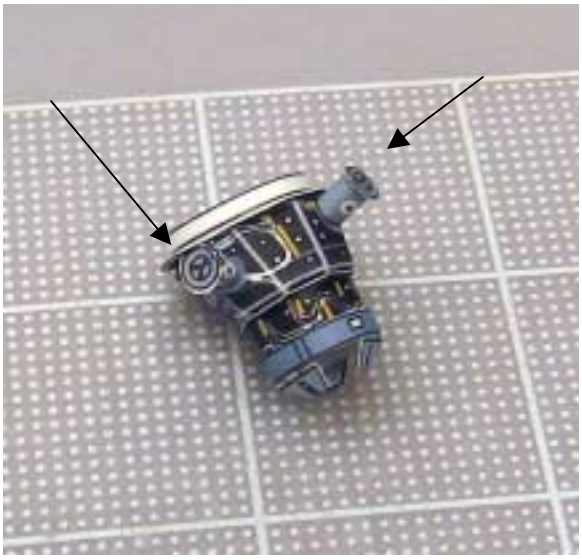


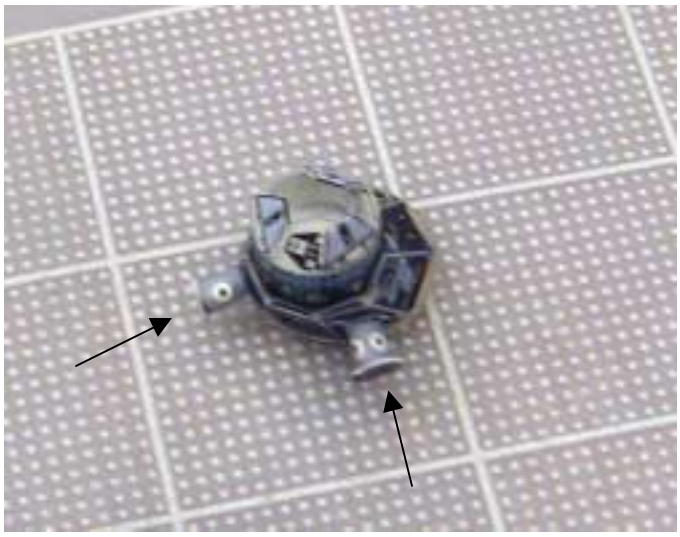

Sunshade
MDM


MDM
Sunshade



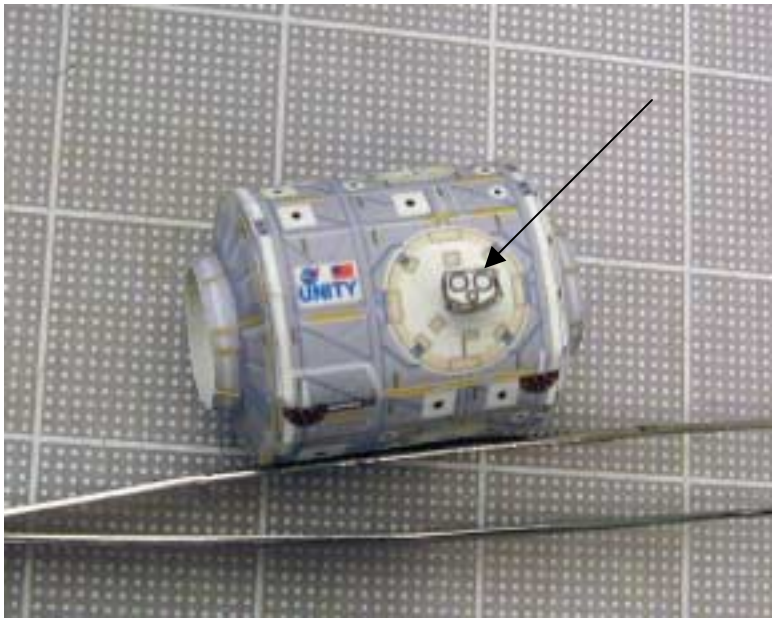
PMA-2 (Attached to Shuttle docking port)





PMA-2 has two grapple fixtures as photo shows (arrows)

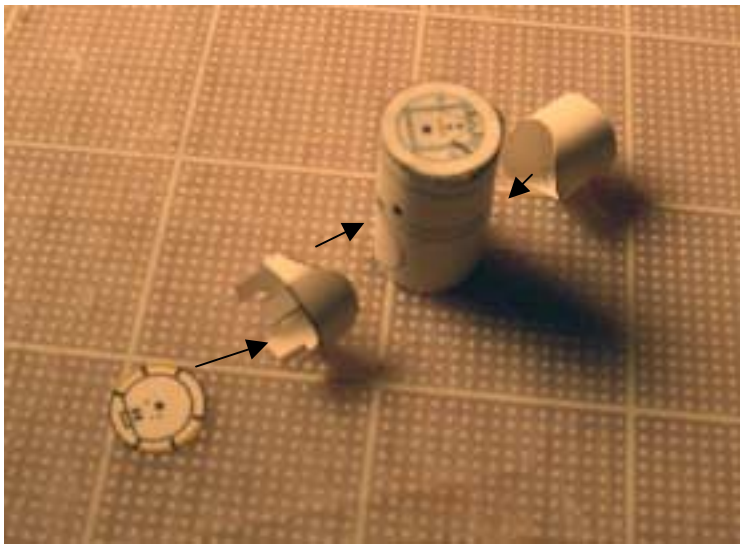
Other parts:



The arrow points to the Early Communication Antenna on the logo side (Starboard) and the opposite side (port). Glue these parts when building the space station version UNITY module, not while in the payload bay.

Arrow shows a Tool bag placed on the PMA-1 side at the level of the Unity logo.
This box is glued when building the space station version of the Unity module.

Building the Orbiter Docking System



Make a cylinder and glue the elements indicated on this photo.

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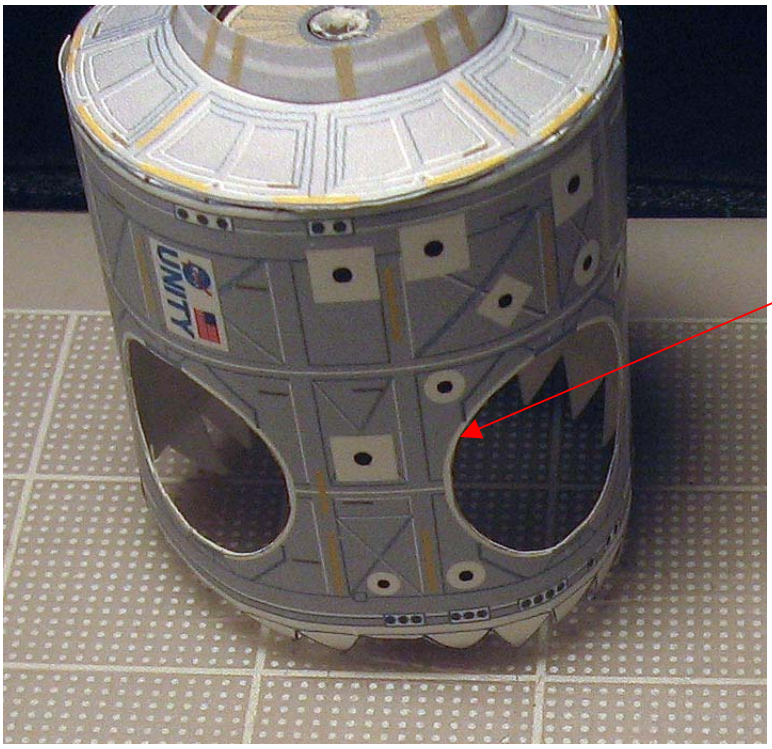
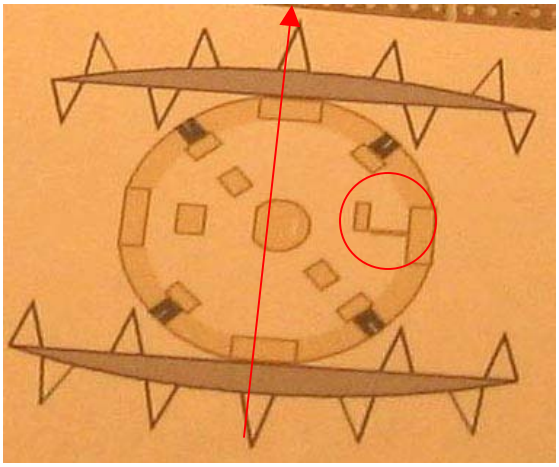
NODE hatches modification (Applies to NODE 1 & 2)

These parts were designed in order to make the NODE 1(Unity) and NODE 2 (Harmony) modules more accurate. Although they are optional, these parts will make the hatches more realistic just as the real hardware.



First cut the painted hatches from the modules.
IMPORTANT: Leave the white circular area (arrow)



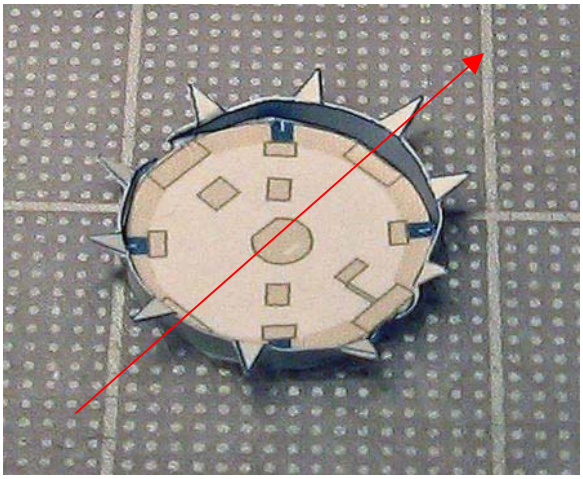
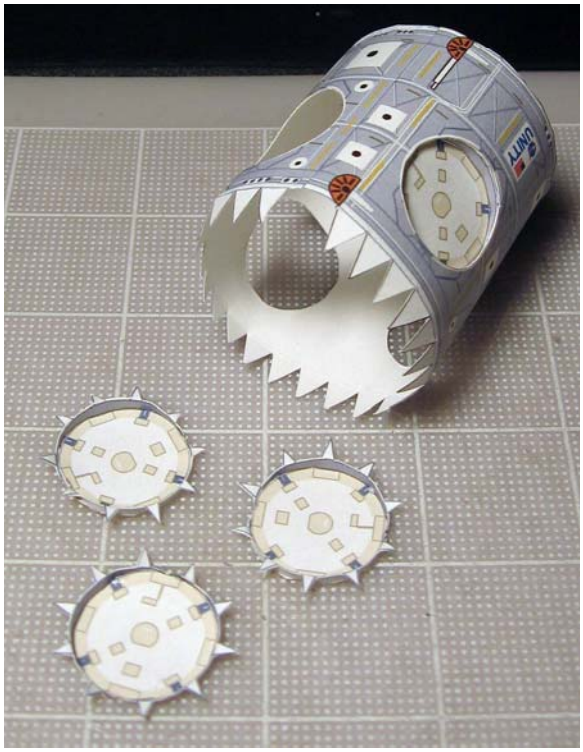
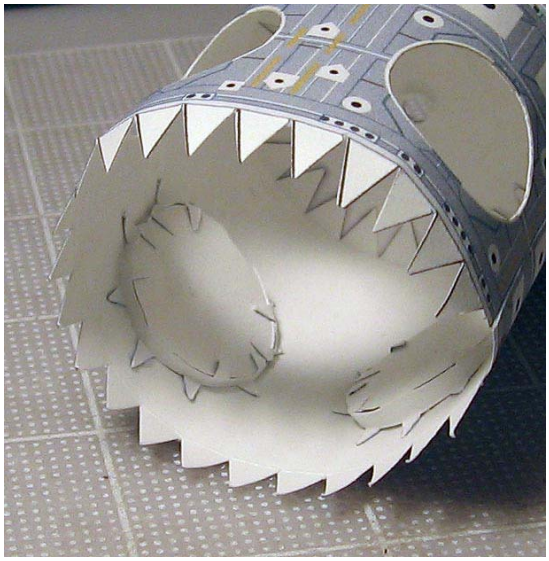
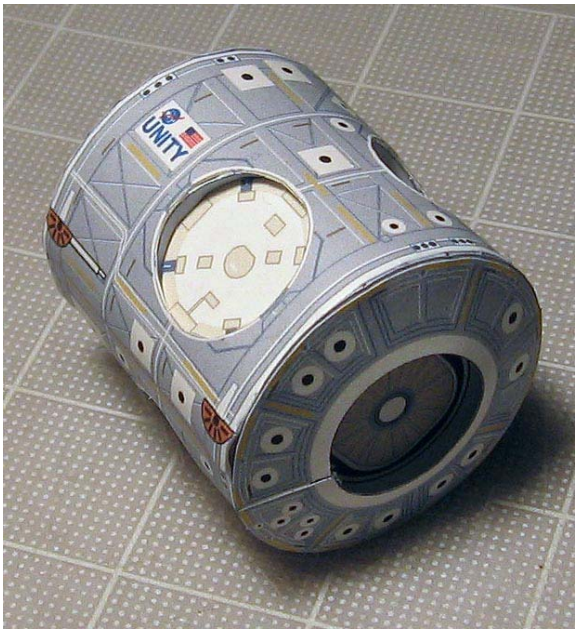
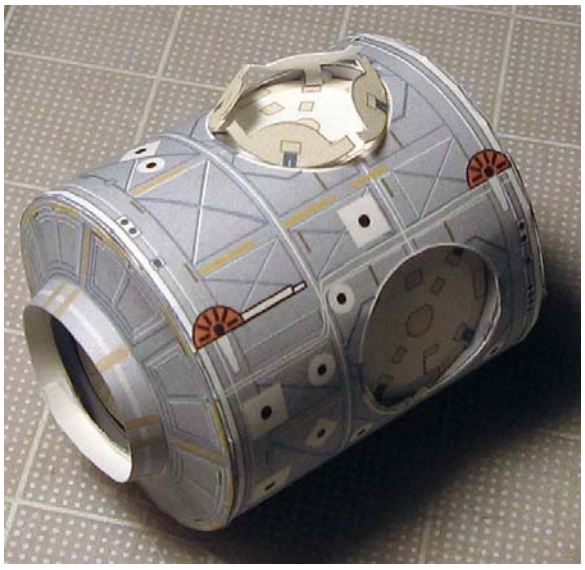


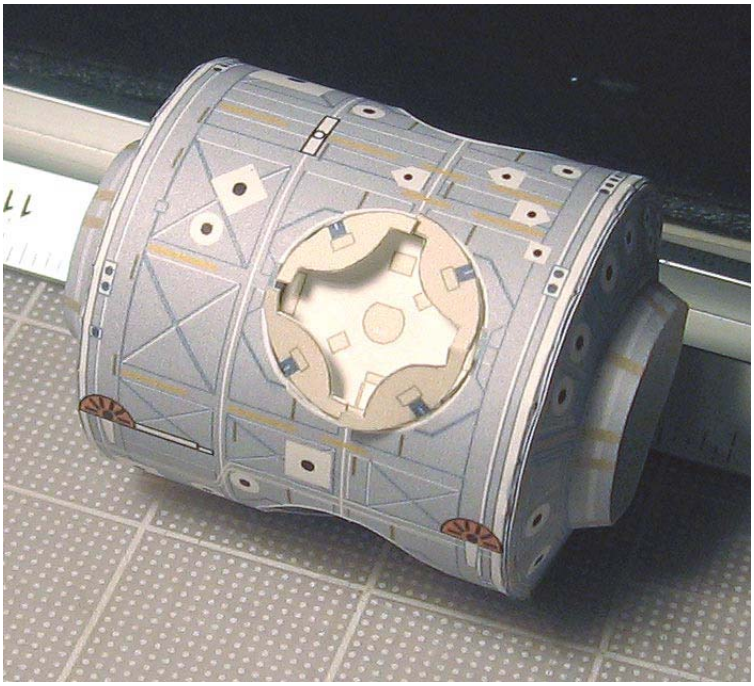
Photo on the left shows the redesigned hatch and on the right is the complete assembled hatch.
The red arrow indicates how the hatch needs to be oriented before gluing it in the module. The arrow's orientation is toward the front of the module.
Another reference point is the detail that is in the red circle. That will always be on the right side.

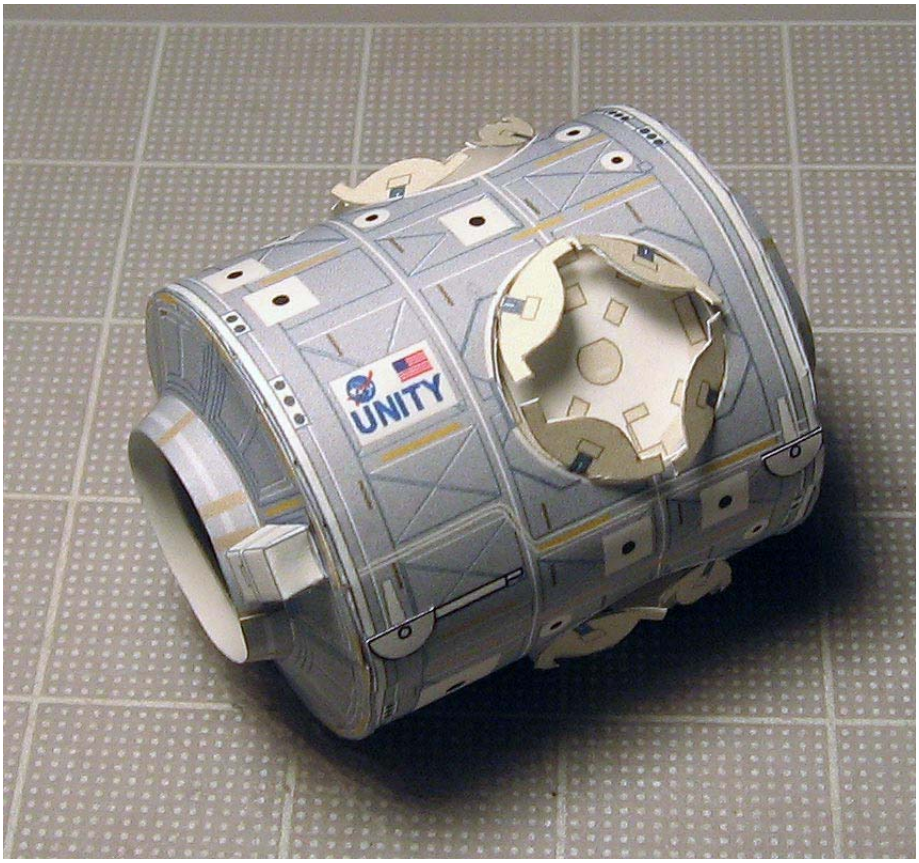

UNITY




UNITY







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