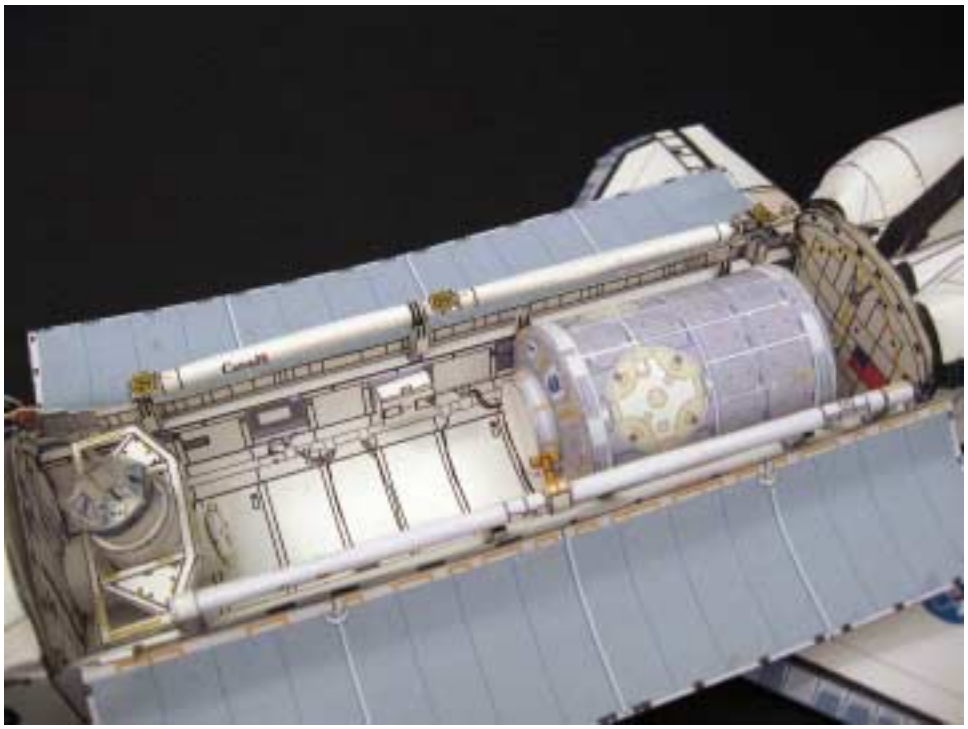
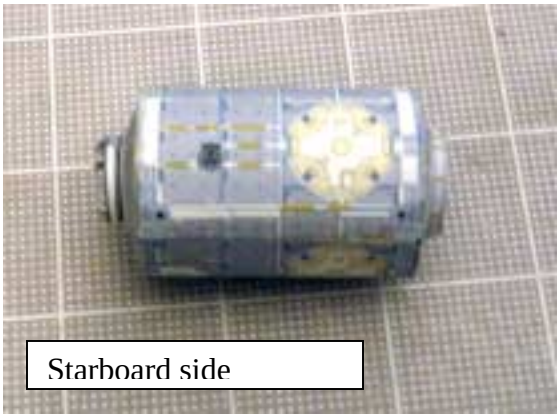
Assembly Instructions for STS-120 payload (Harmony – Node 2)



Building the "Harmony – Node 2" Module

Reference photos: note details on sides of module, and both ends.



Starboard side

Port side

Arrow indicates this side faces up when assembled with other modules. Note the position of the logos for orientation.

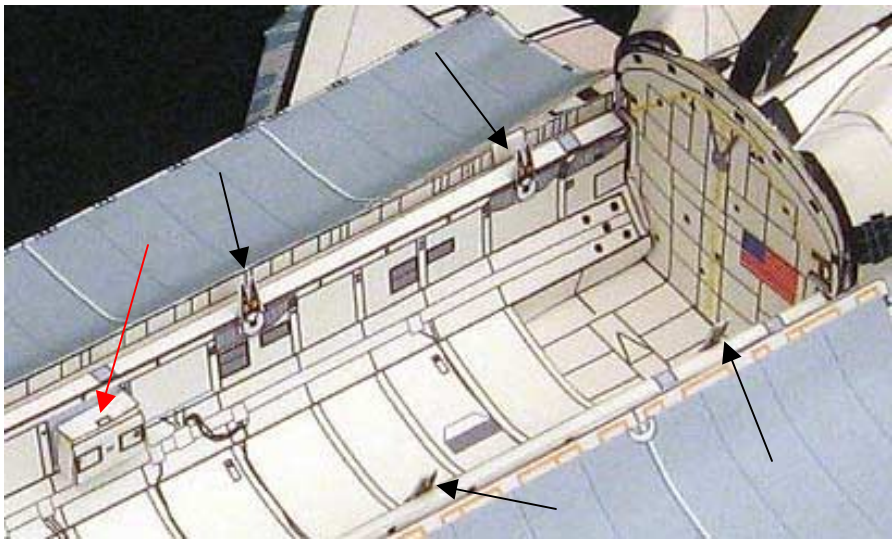
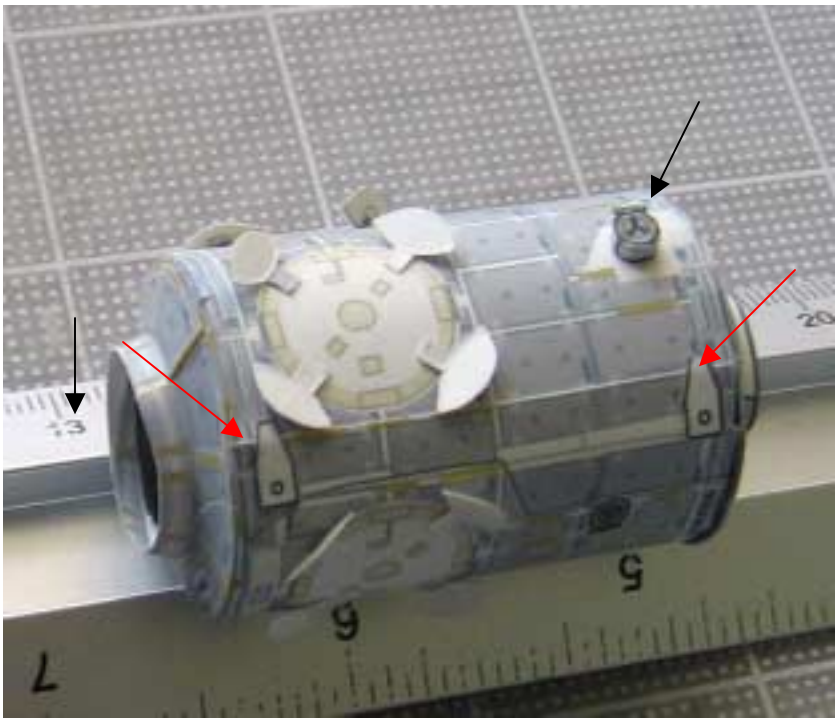
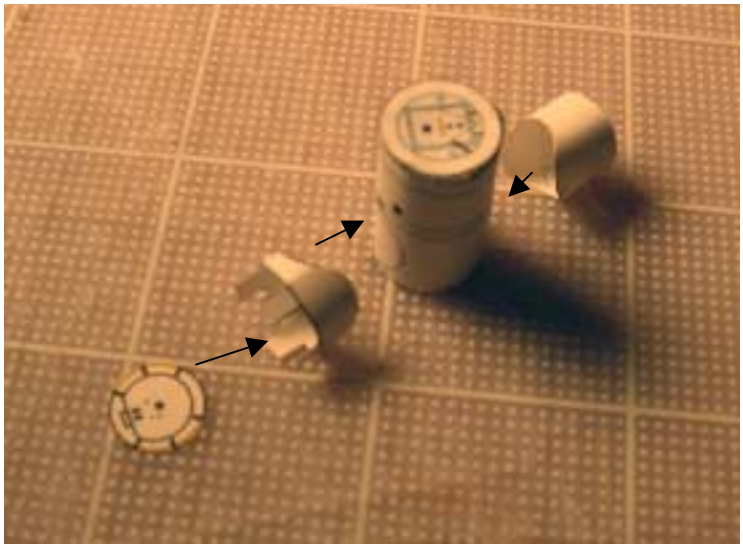


Photo shows the trunnion spikes (arrows) and the MBSU box (red arrow)

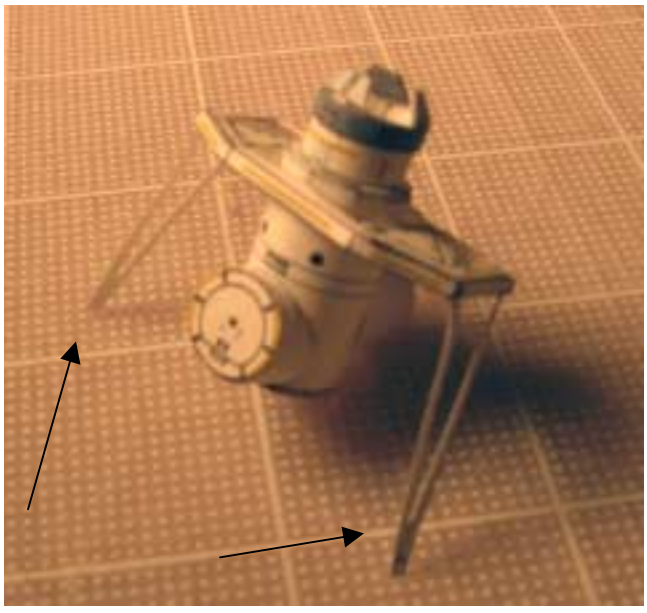


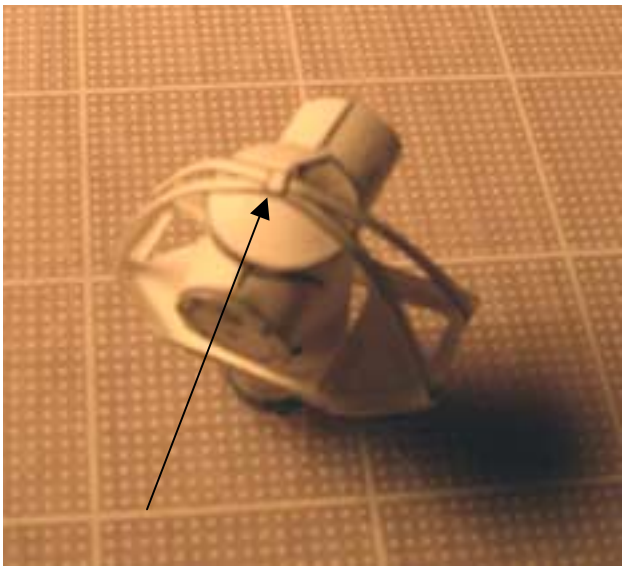
When building the “Harmony” space station version, you need to add the “petals” that go on each of the 4 ports. These “petals” will help hold in place the future ISS modules to be released on my website. Note how these petals are glued.
On this photo there is also the Power and Data Grapple fixture already glued in place (arrow) and the Trunnion pin covers (red arrows).

Building the Orbiter Docking System



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

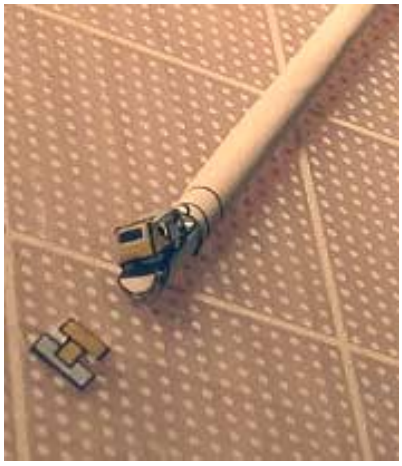


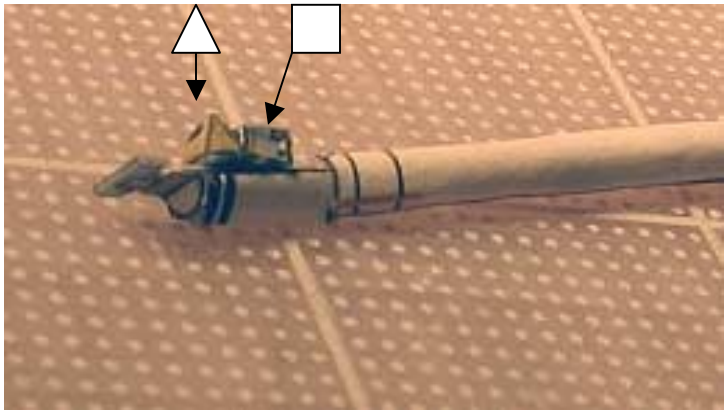


Photos show the position of the other elements when building this Docking System. Note how the side thin parts are glued at the bottom of the Docking System.

Building the Orbiter Boom Sensor System (OBSS)

Build as if you are building the Robotic Arm. The only difference is the bottom end. Photo shows elements on this end. It has a small box, a triangular box and the TV camera on the tip.

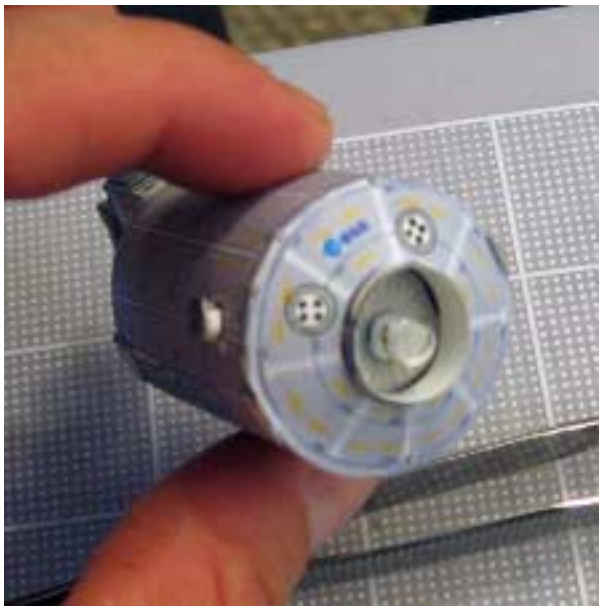


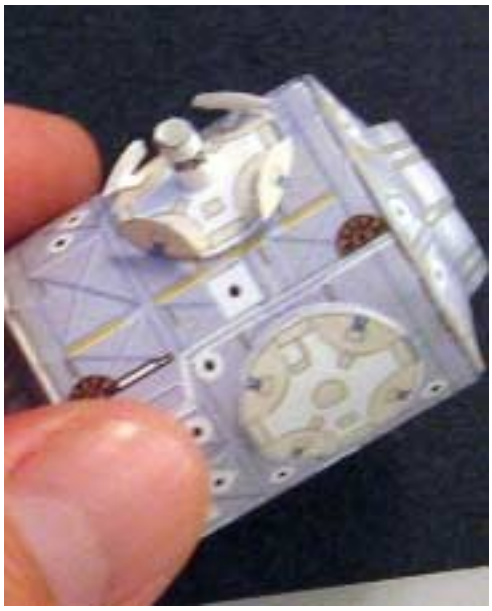


To save space I have omitted details to build both Robotic Arm and the Boom sensor. Look at other manuals on my website on how to build these parts.

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

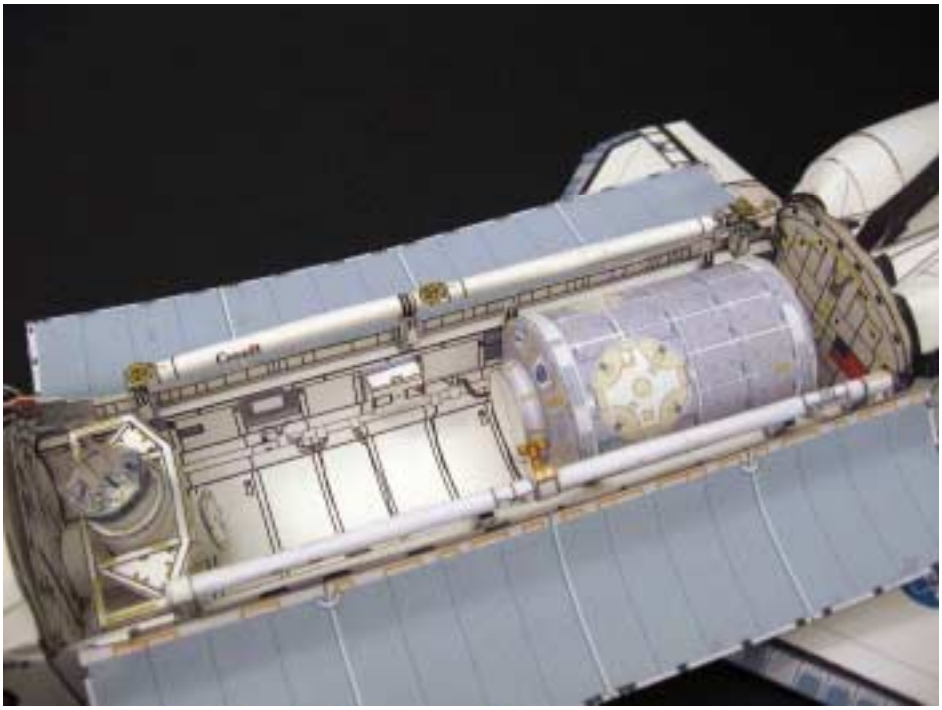
More photos for reference:

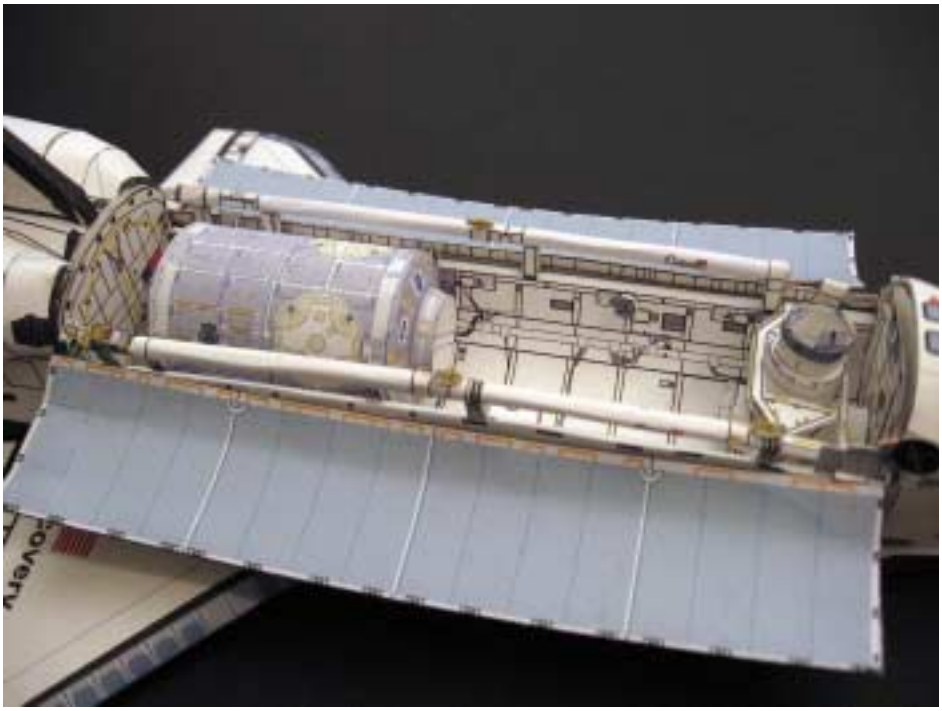


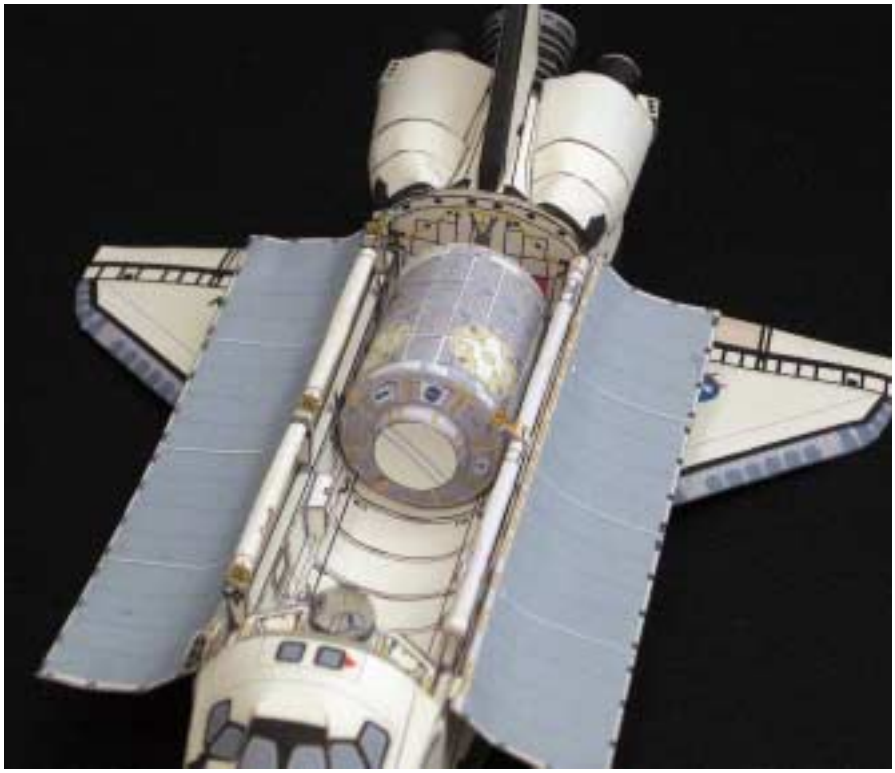


These 2 photos show the design I have chosen to fit the modules together (male-female design). This method will become standard for future ISS modules. This will apply to both Nodes 1 and 2 and PMA's 2 and 3.

This photo shows how the Node 2 module is placed on the payload bay. Notice the ports in an angle and the logos for orientation.







Enjoy this model!

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