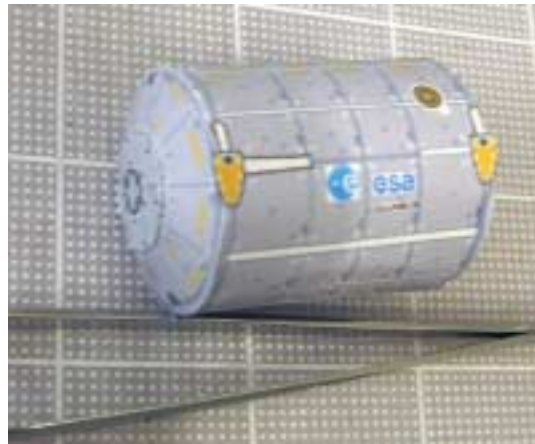
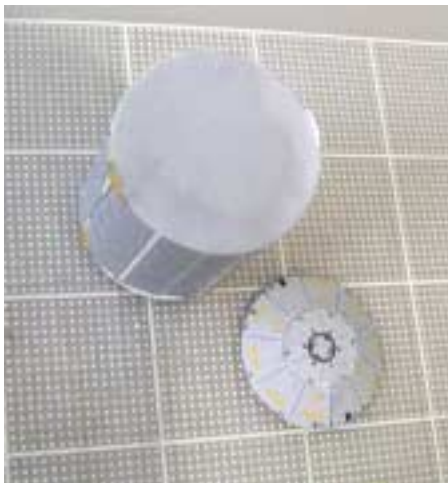
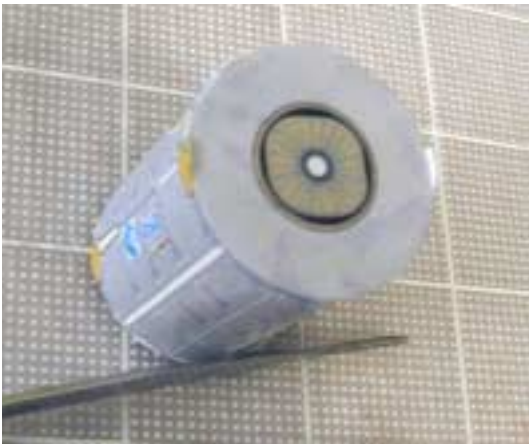
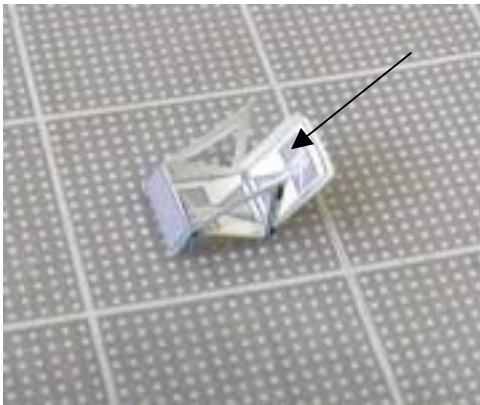
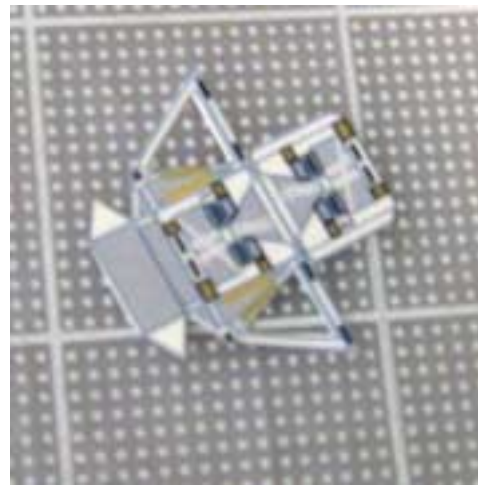
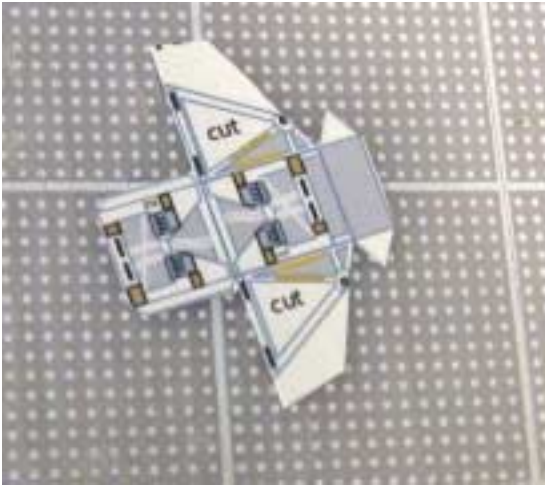


## Building the “Columbus” Module



This is a very straightforward method to build this module. Look photos for reference. Note both ends of the module and relationship with ESA logo.

## Building the external payload support mechanisms

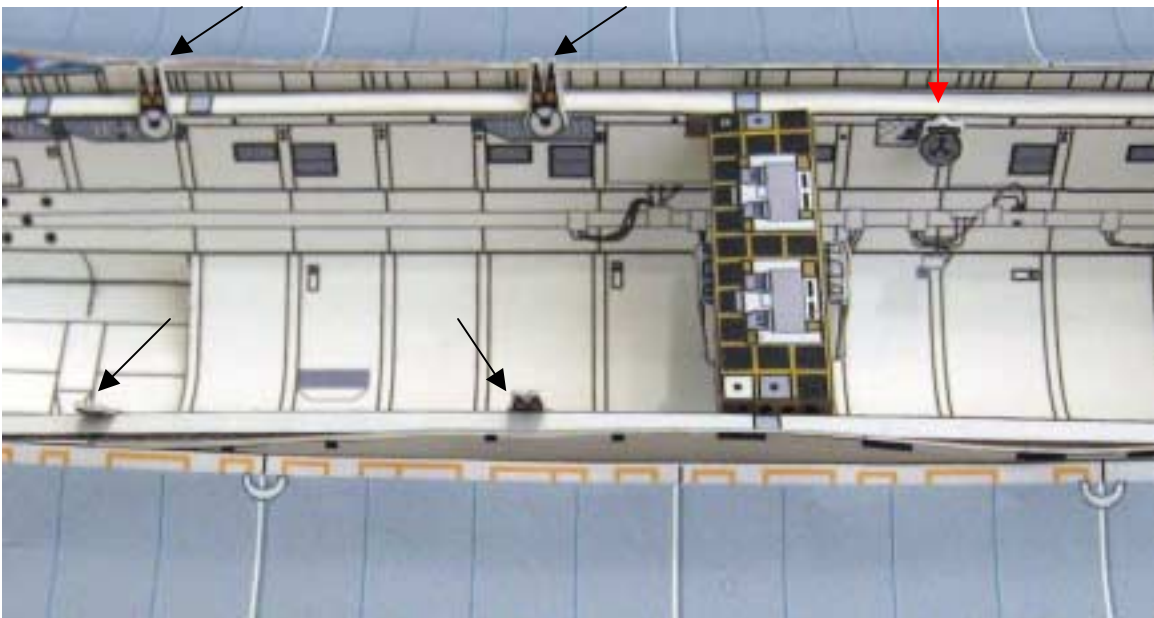


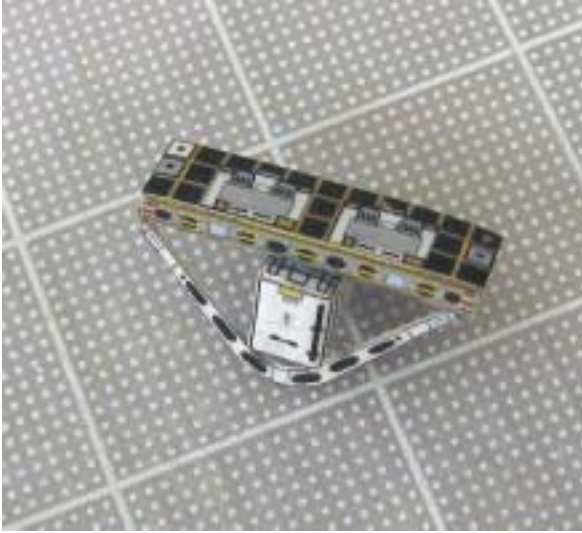
There are 2 external payload supports, one on top and the other at the bottom of the front cone. Shaped as an L, both have 2 faces which are numbered: 1-2 (top) and 3-4 (bottom) Arrow indicates that the interior part has been glued. For the “Columbus” mission, payloads will be located on the top external payload support.

## Building the ICC-Lite carrier and small payloads

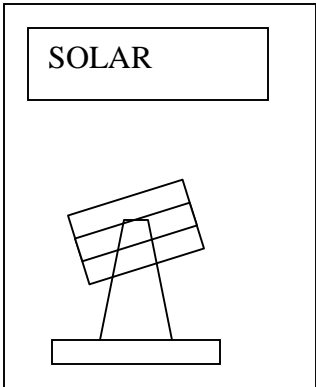
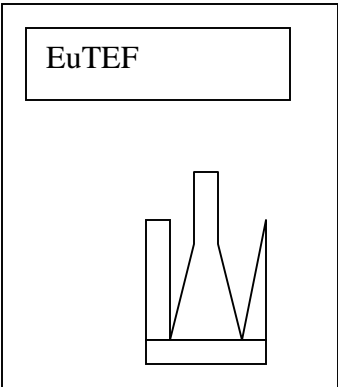
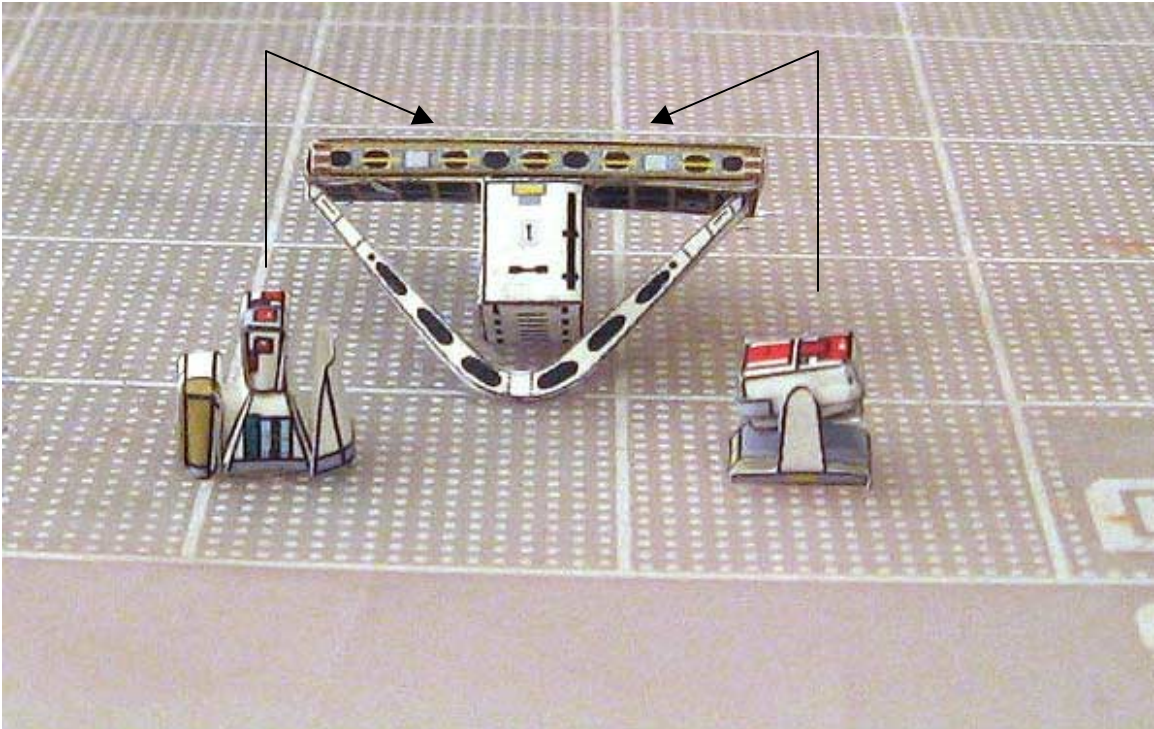


For this mission the ICC carrier is placed on bay 6 of the payload bay, with the support beam located to the front of the carrier. This platform has a rectangular box underneath, the NTA (nitrogen tank). On top of the platform will be spaces for the external payloads from the Columbus module. Photo below shows other angle of the payload with the 4 trunnion spikes for the Columbus module (arrows) and the Power and data Grapple fixture. (red arrow)



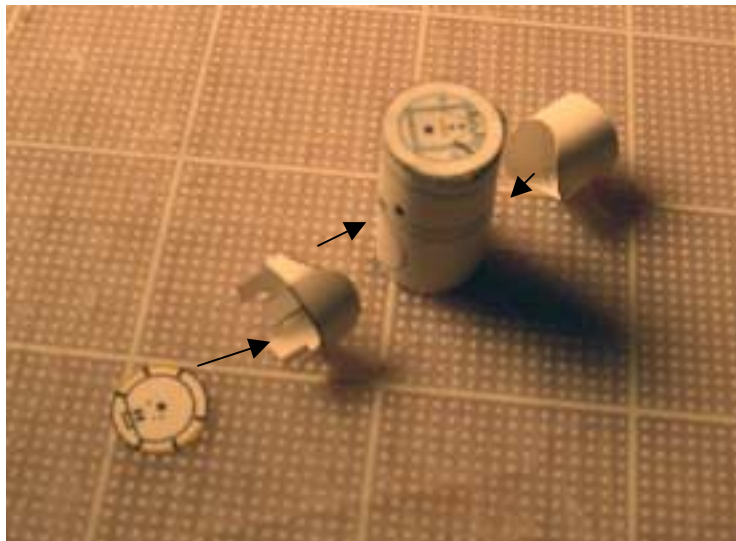


2 external payloads: to the left is EuTEF and to the right is SOLAR experiments.  
Note the white box showing face "1" (look at the number 1). This face #1 has to be facing forward to the payload bay.  
Note the position of the 2 payloads, which indicates how they are placed on the payload bay.





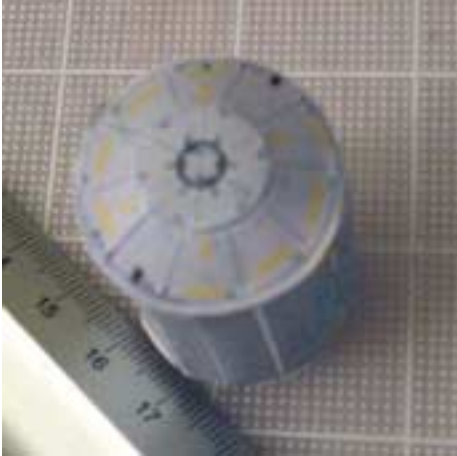
### Building the Orbiter Docking System





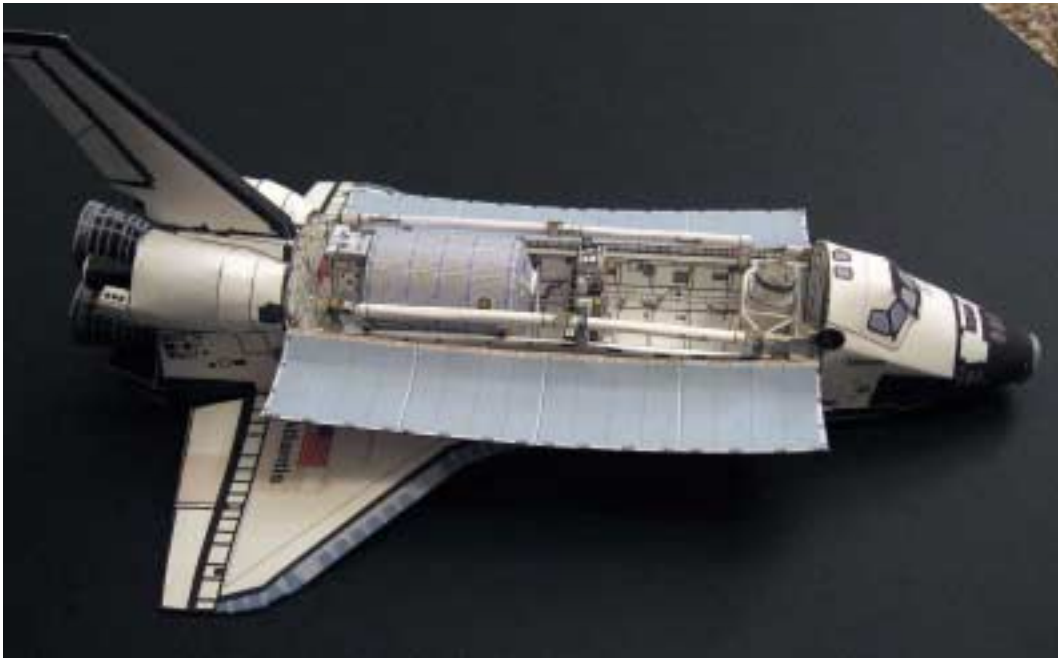
Note location of KU-band antenna that is glued on the tab from the right payload bay door.

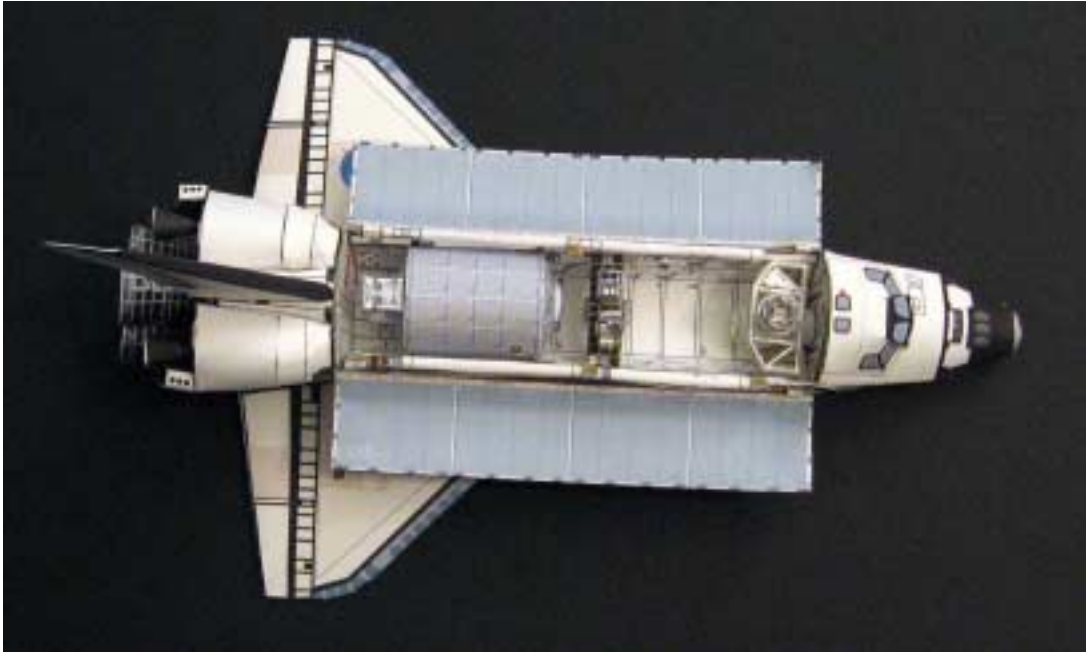
More photos for reference:



This photo shows the trunnion pin covers and the Grapple fixture in place for Space Station version module.







Enjoy this model!

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