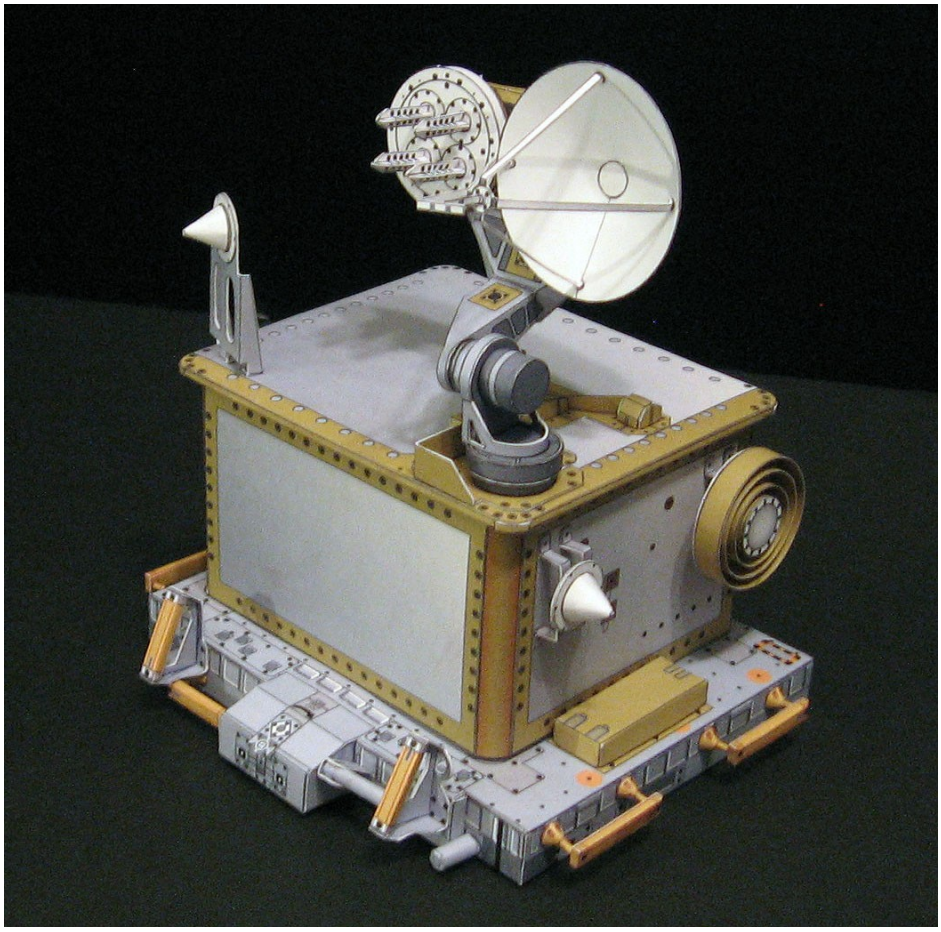
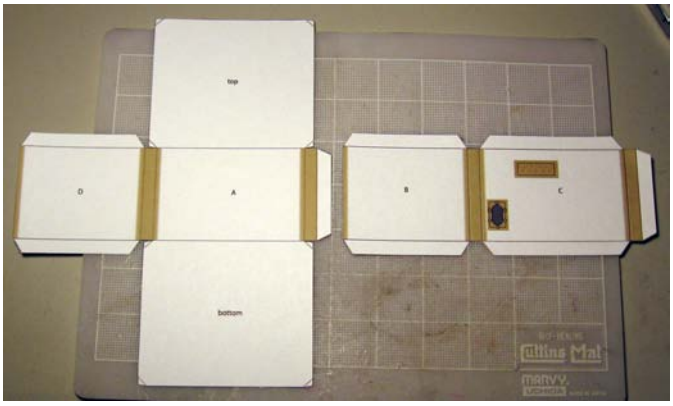
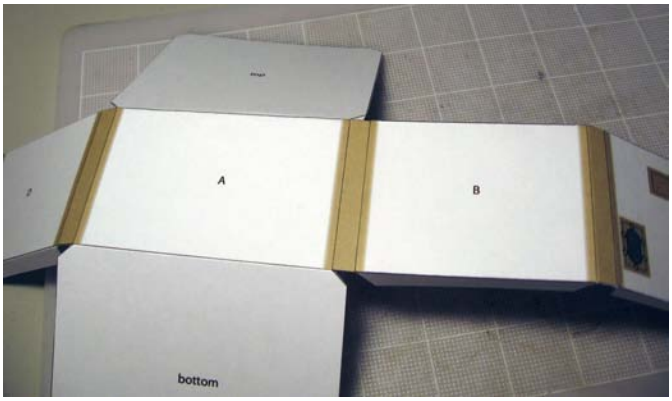
© 2011

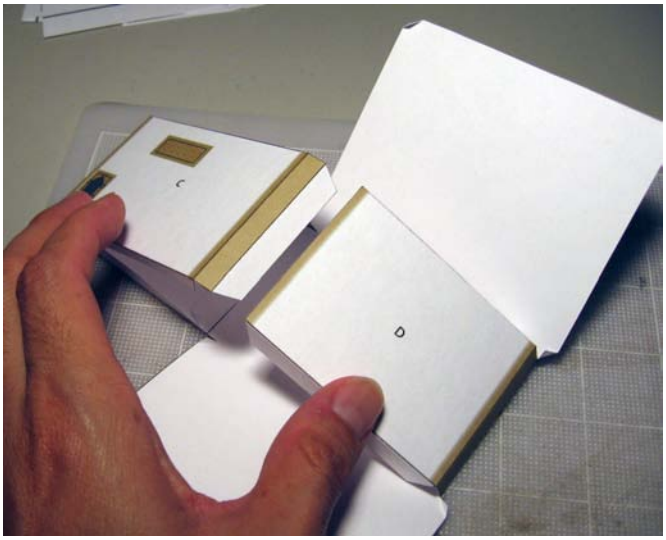
SCAN TESTBED Payload
1:10 Scale Model

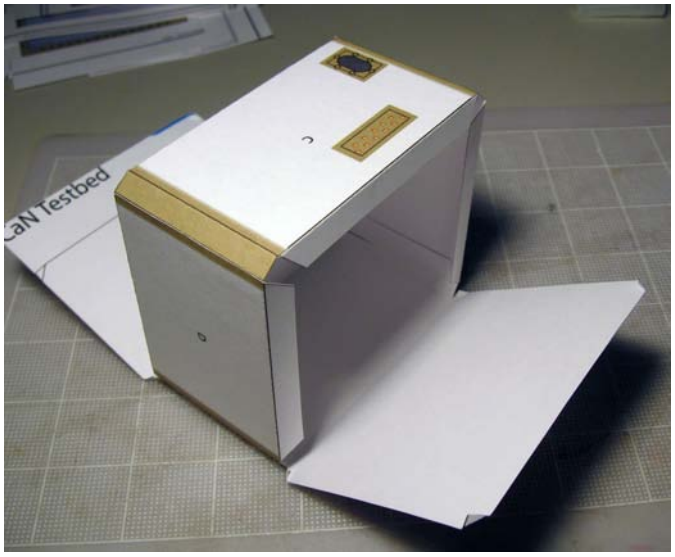


Assembling the main box

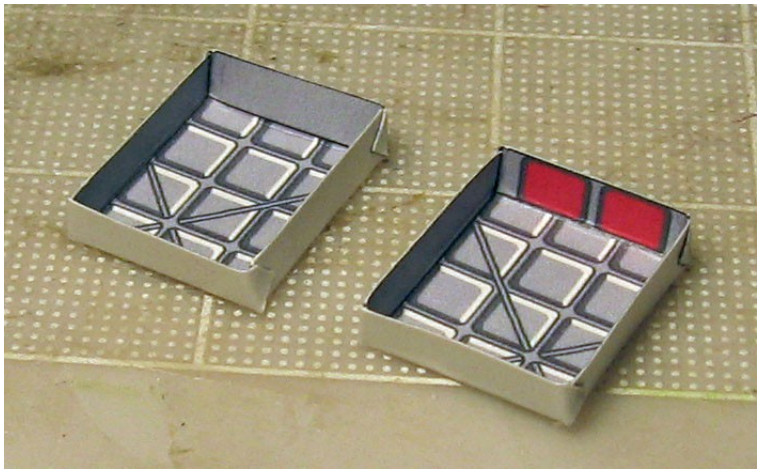


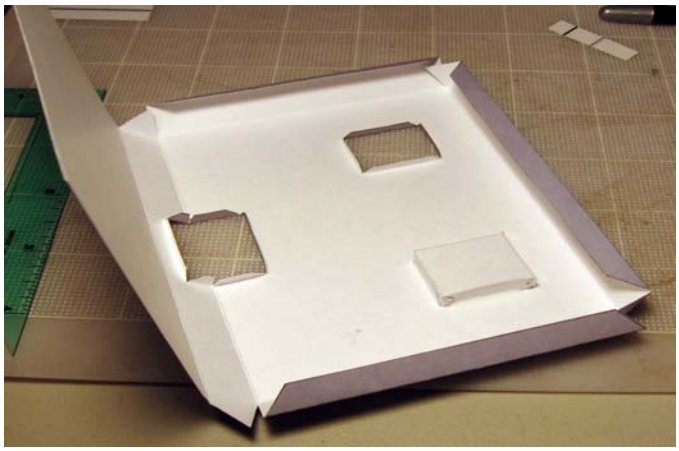


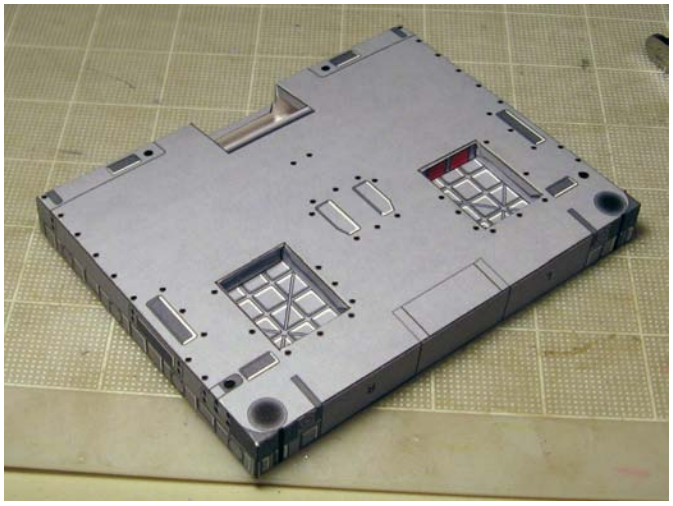


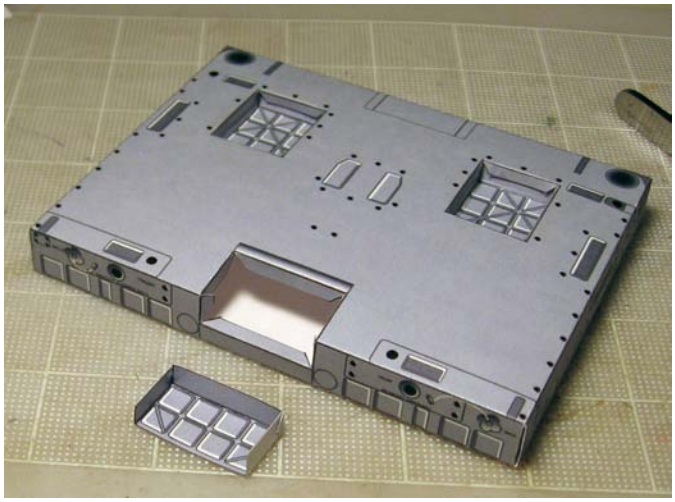


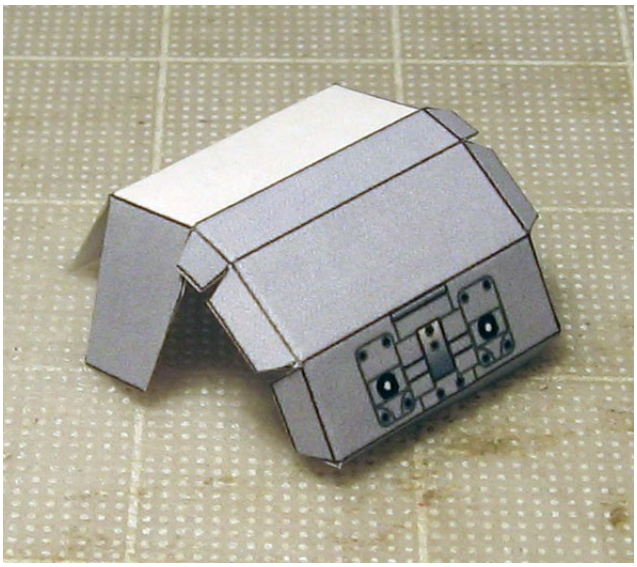
Assembling the FRAM box

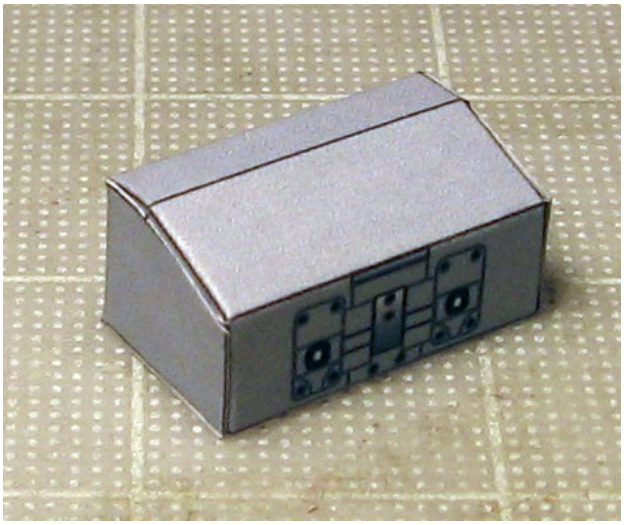


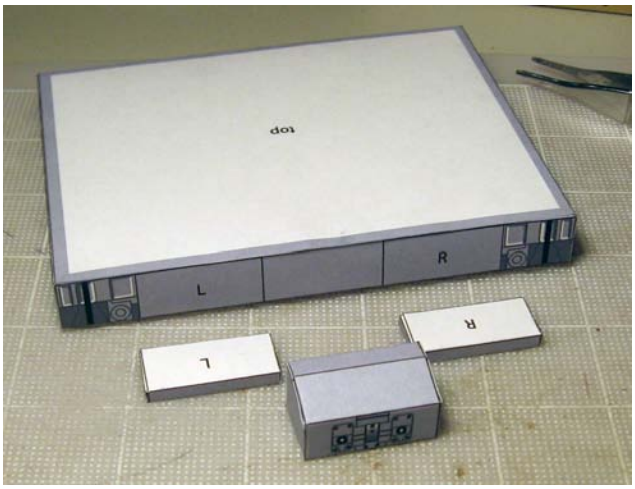











top
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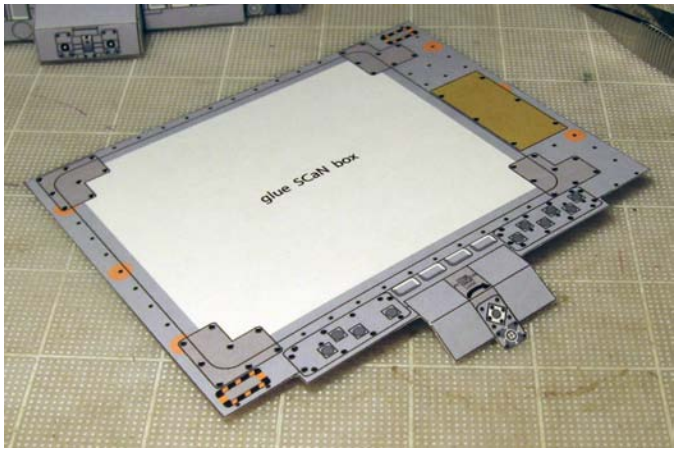
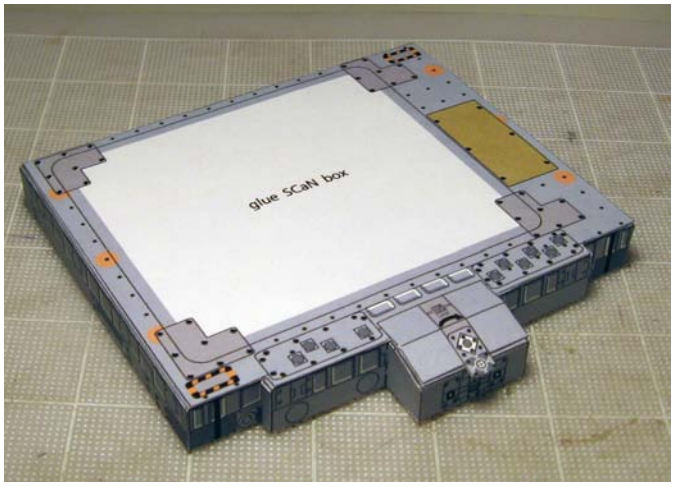
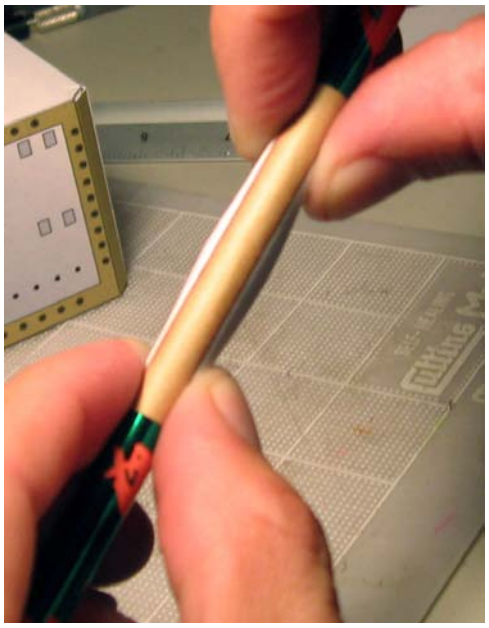
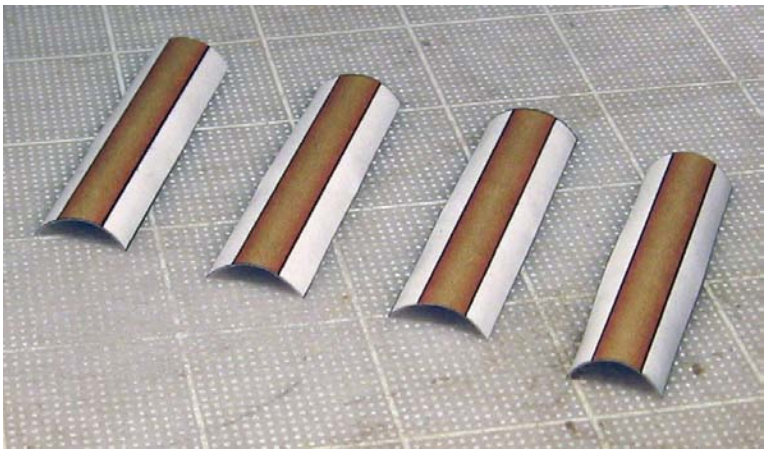
top



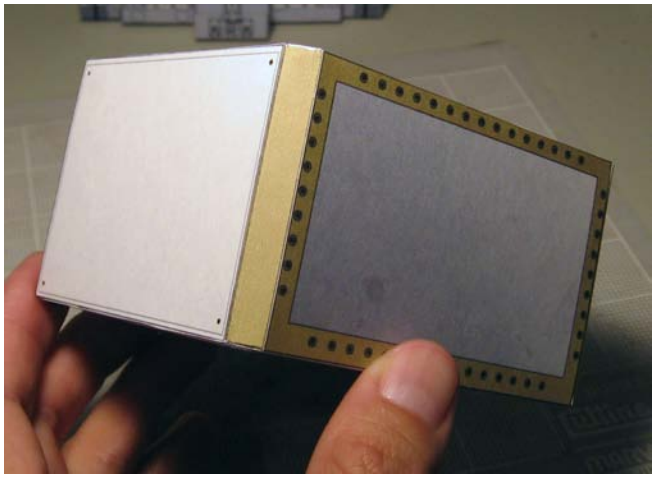


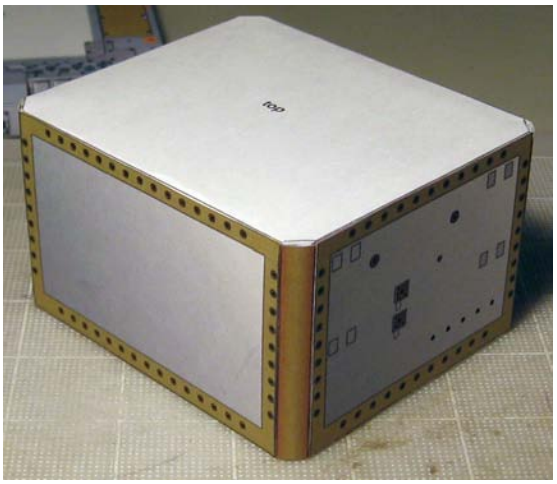
Adding the rounded corners, walls and top of box





Each round corner part was designed with white areas so it will be easy to curve around a pencil. Once these parts are curved, cut out the white areas.

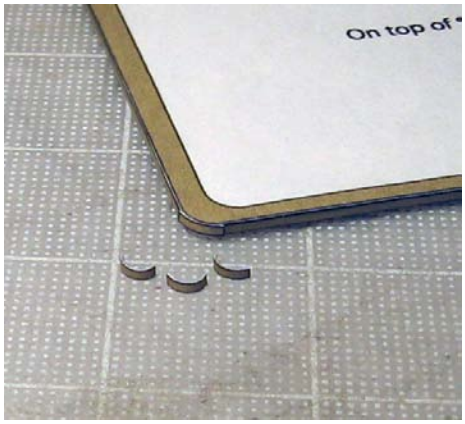




glue cover
On top of SCaN box

On top of SCaN box

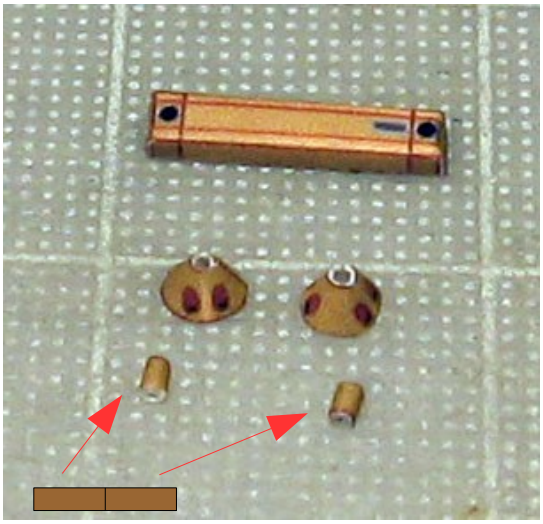
glue cover

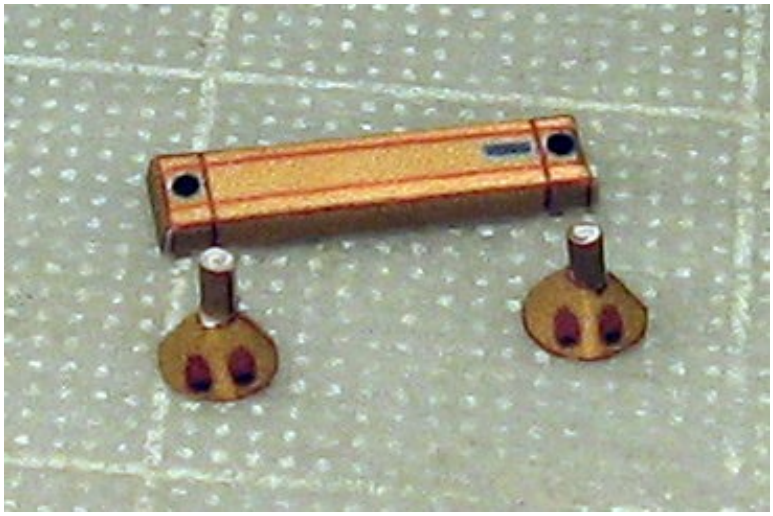

On top of

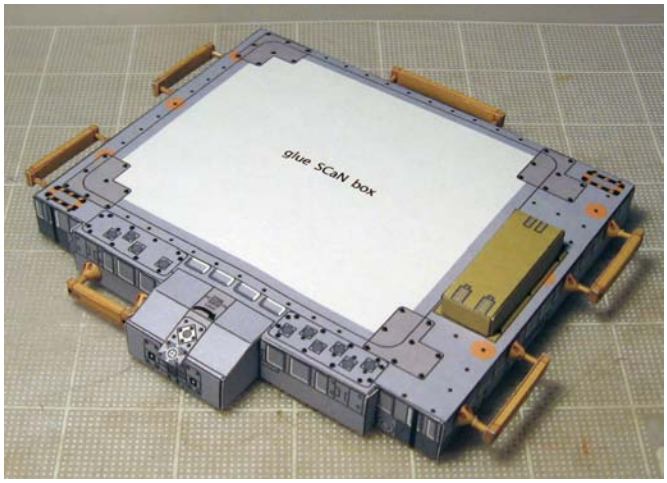
On top of SCaN box

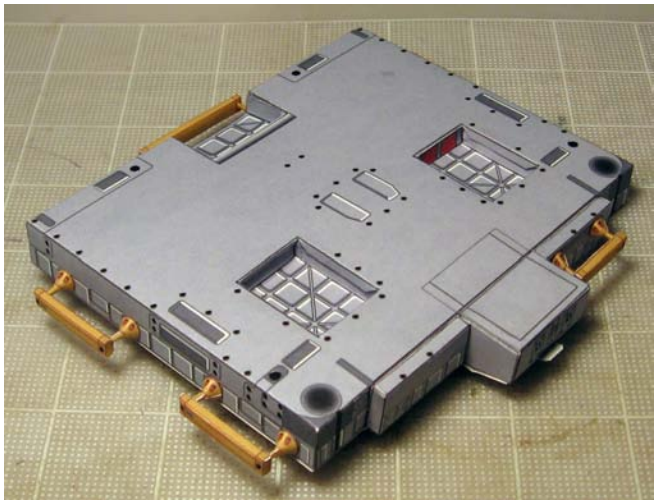
bottom

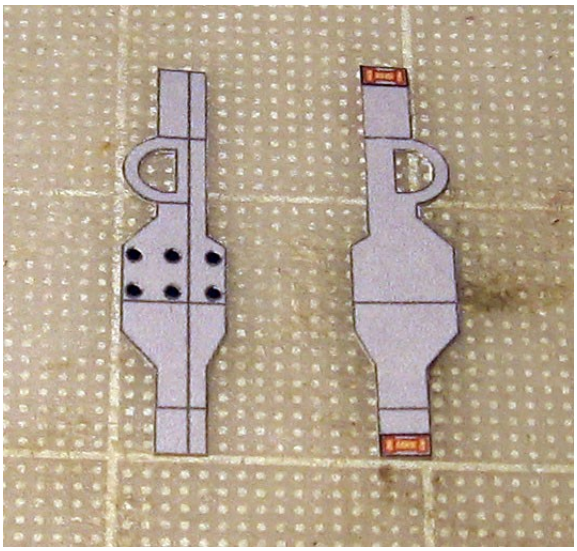
Adding the handrails and front handles to the FRAM box

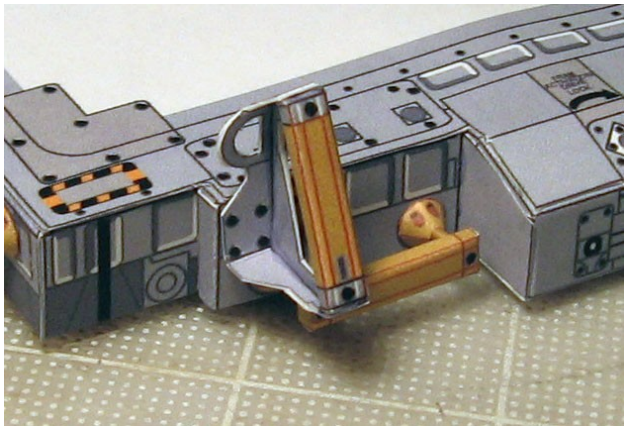
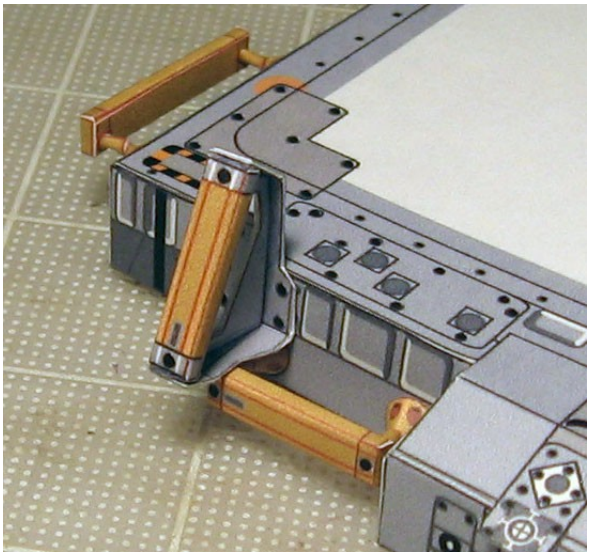


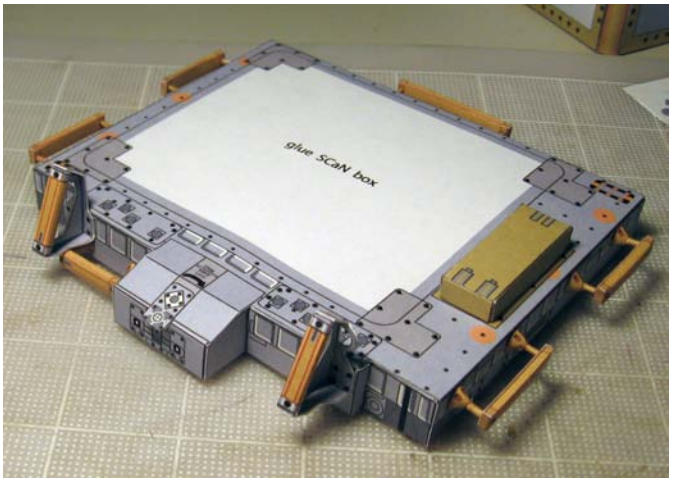


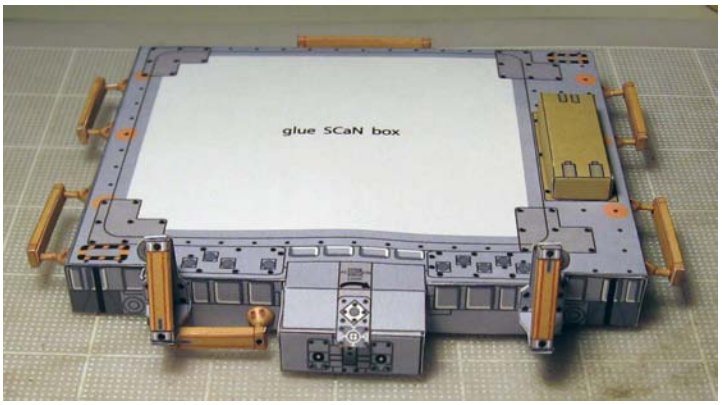


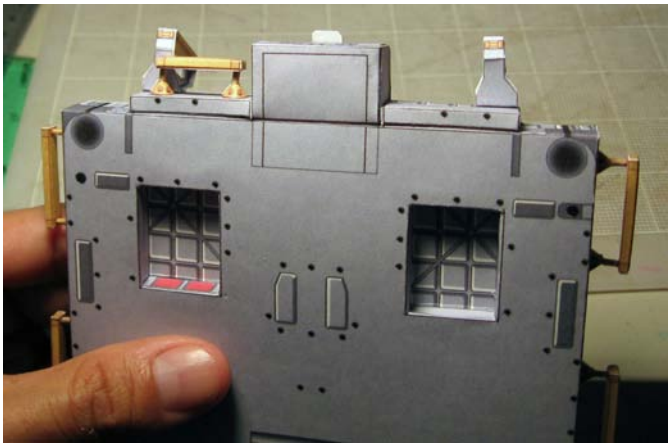


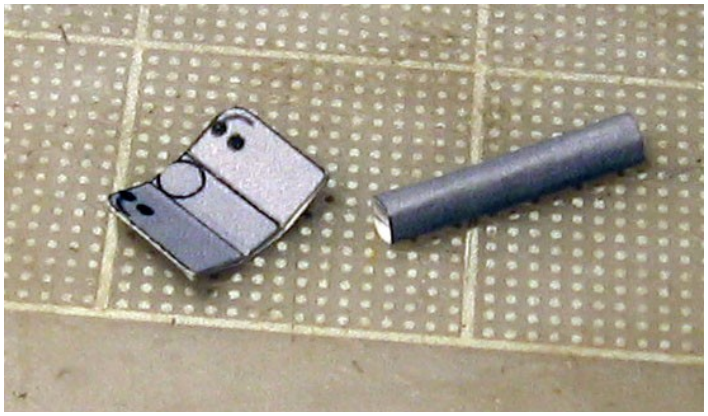


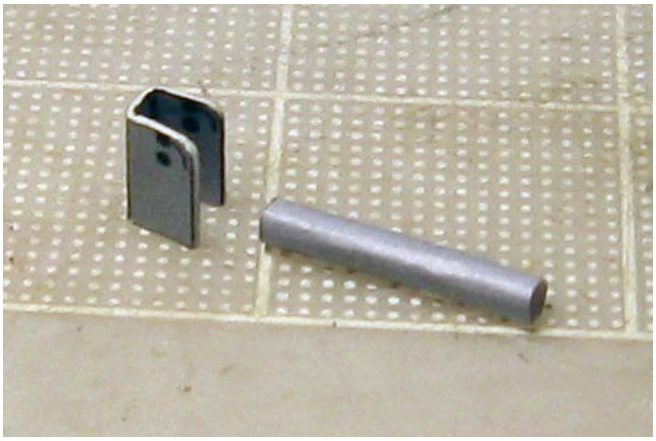



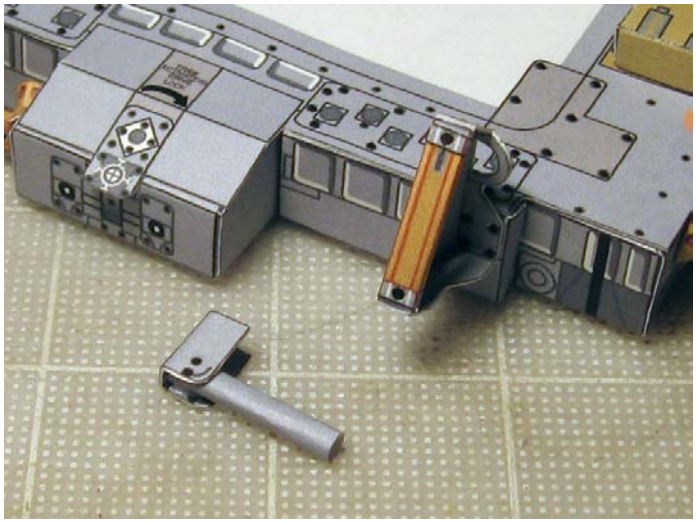

glue SCaN box

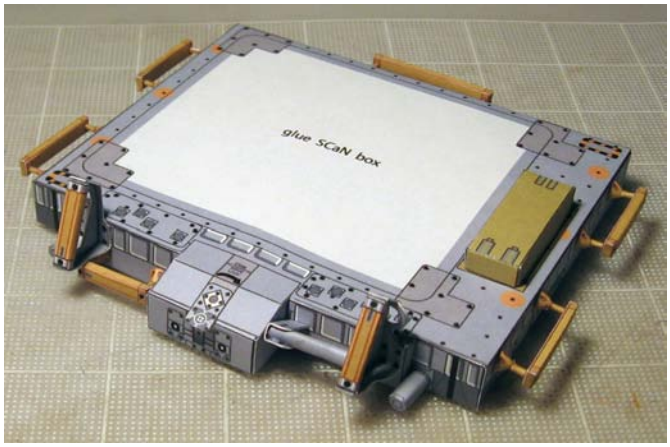

glue SCaN box

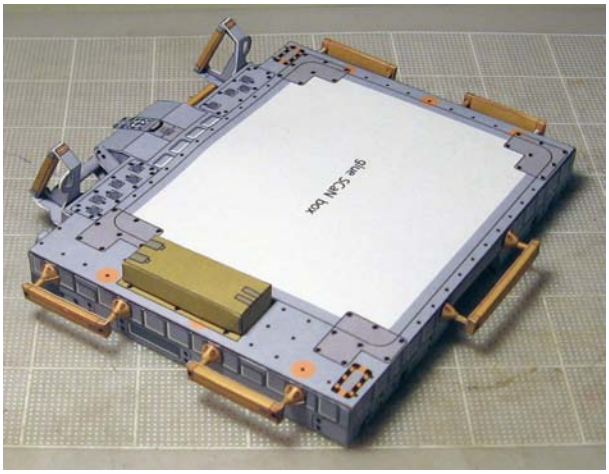


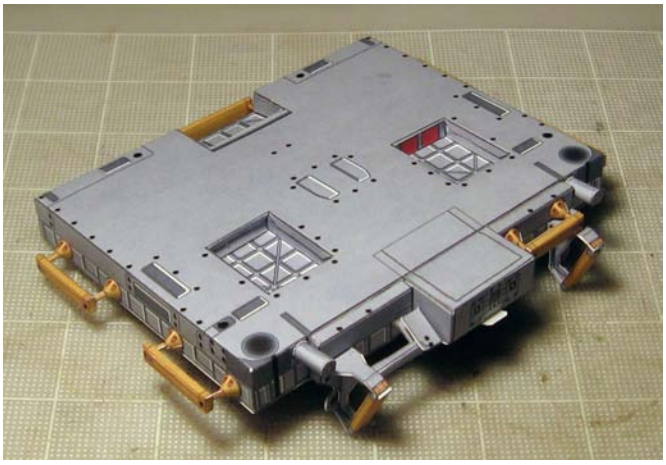


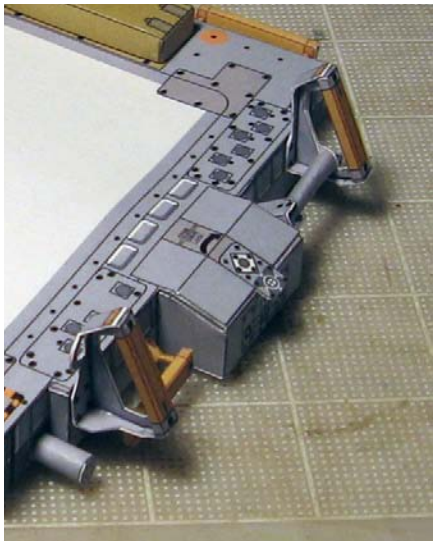






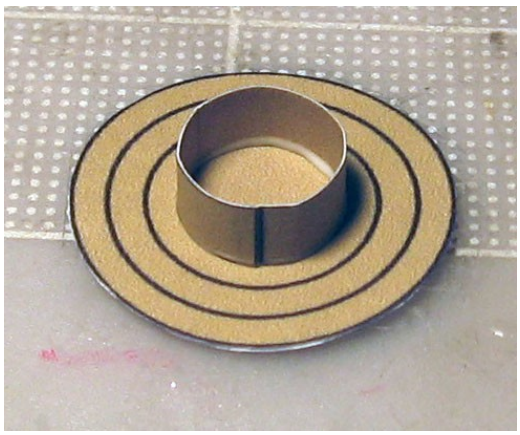


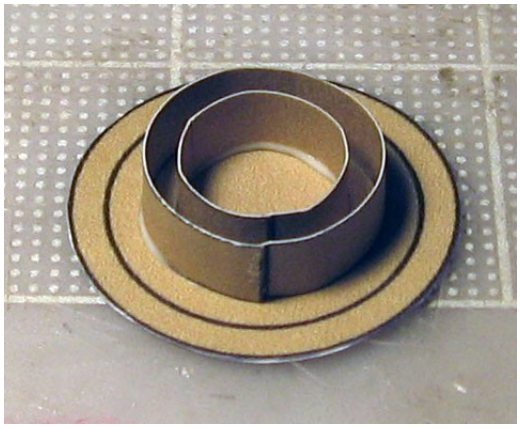


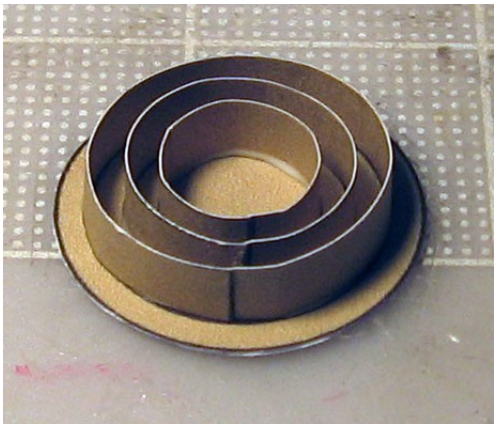


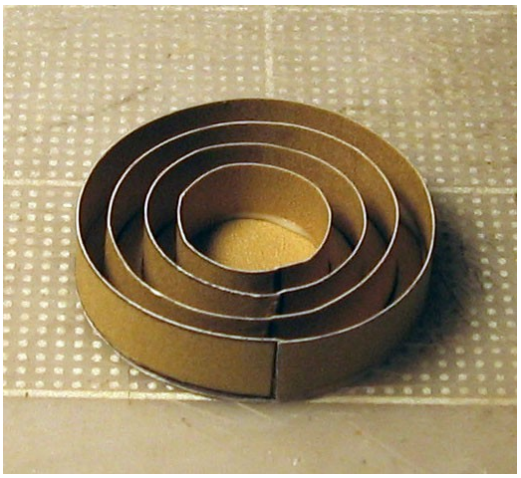
FRAM box is complete!

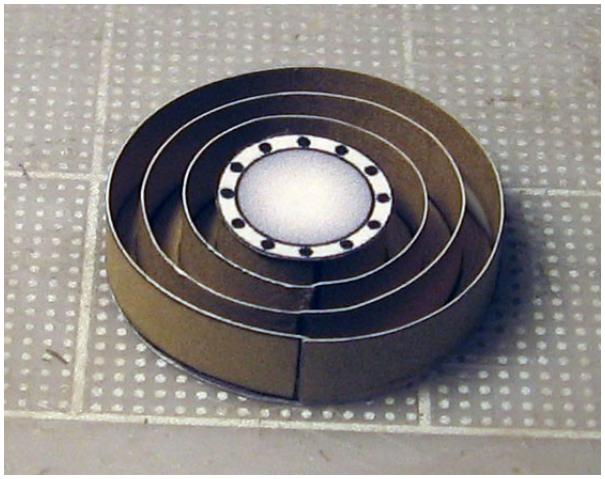
Building the L-Band GPS antenna



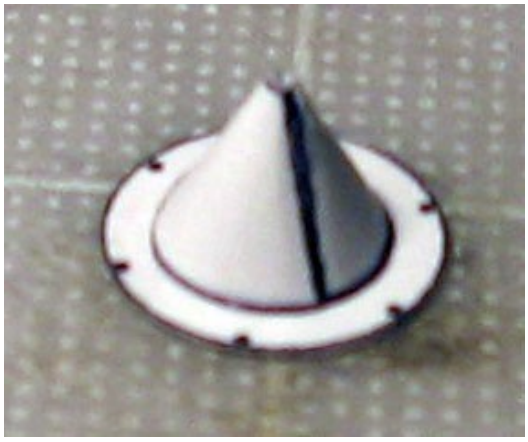




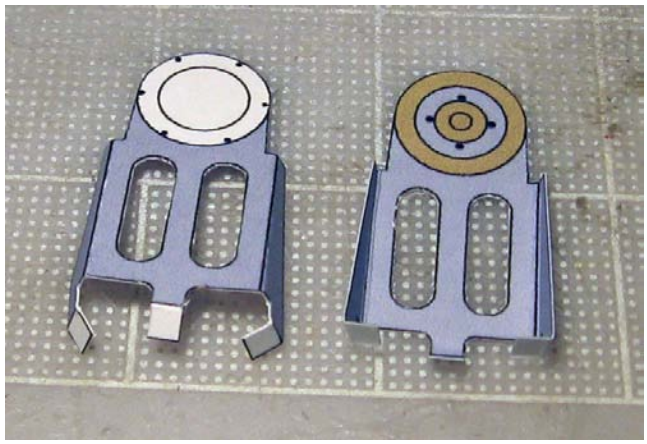


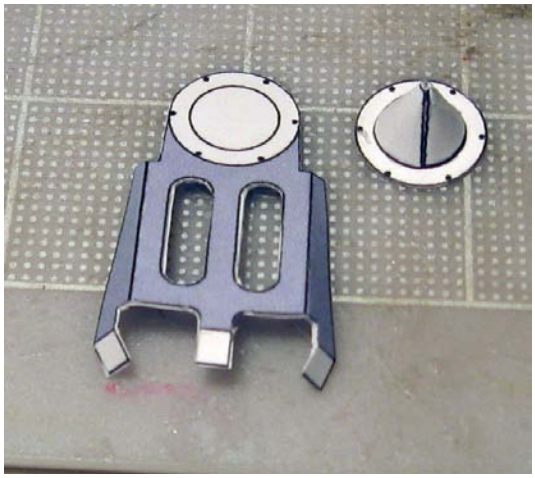


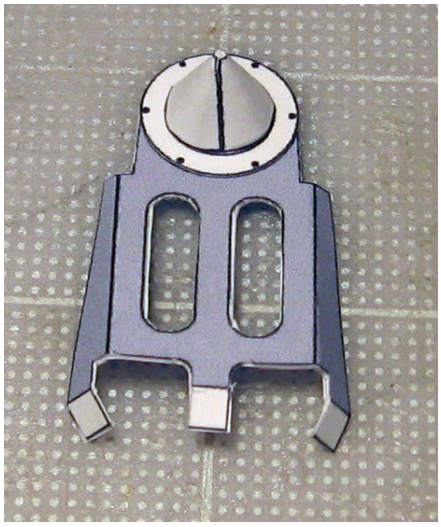
Building the S-Band LGA antennas

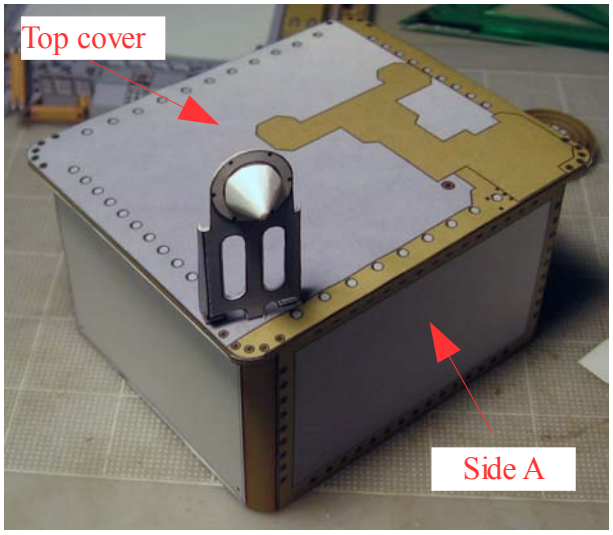


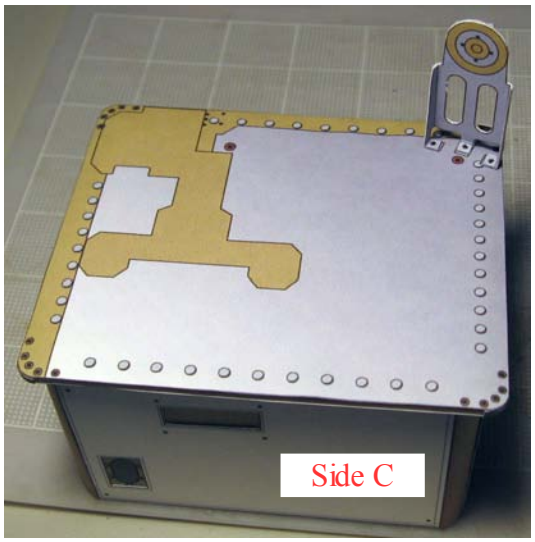
Make 2 of these cones

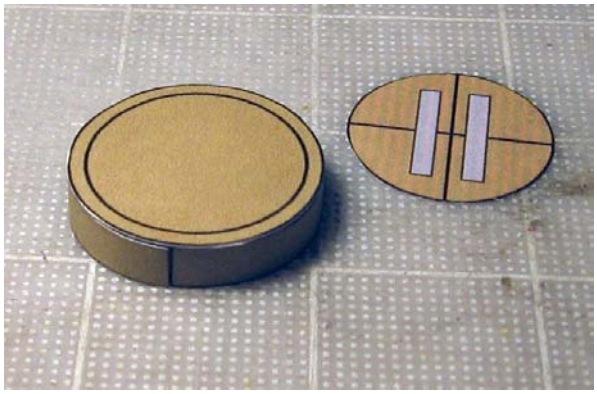


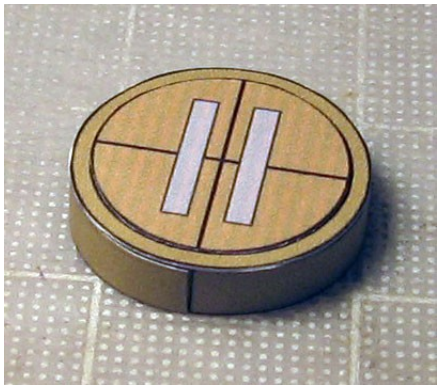


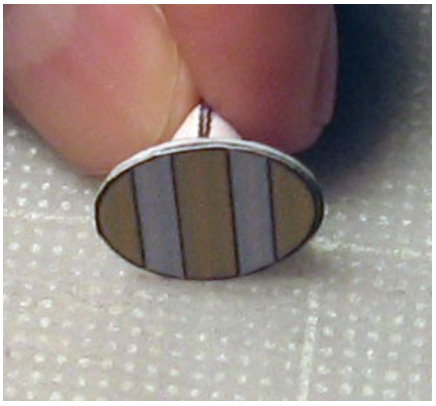


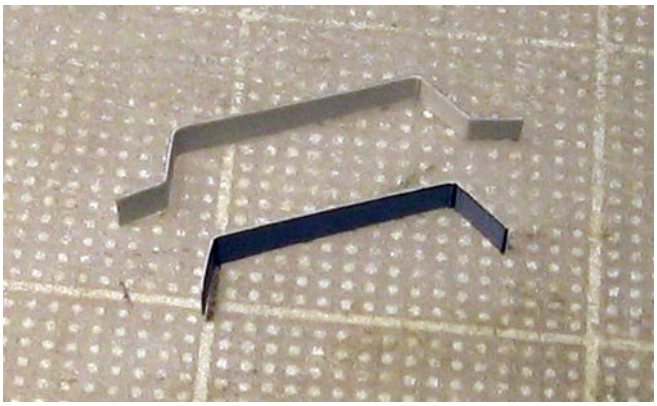


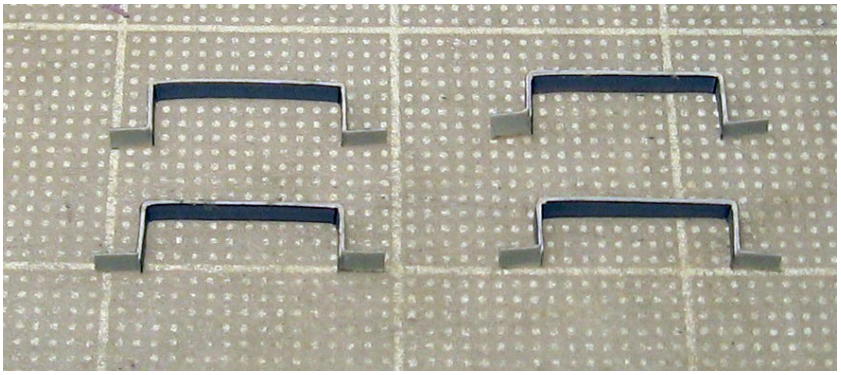


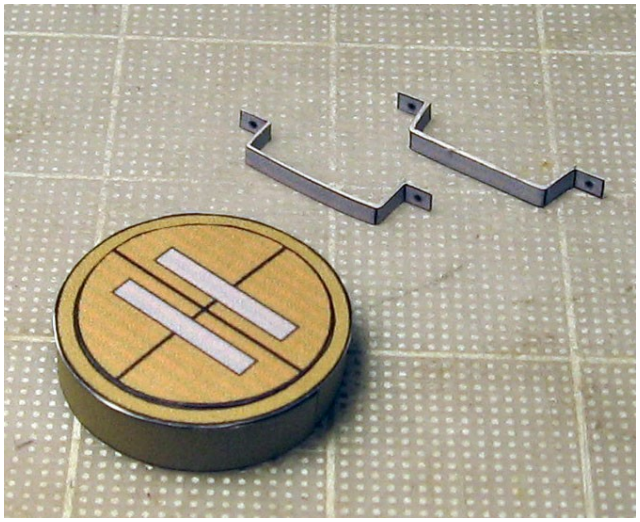


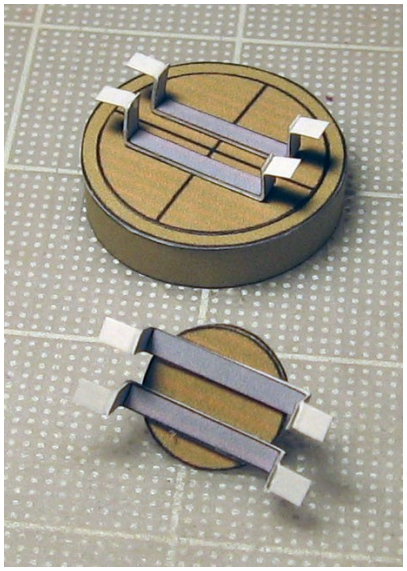


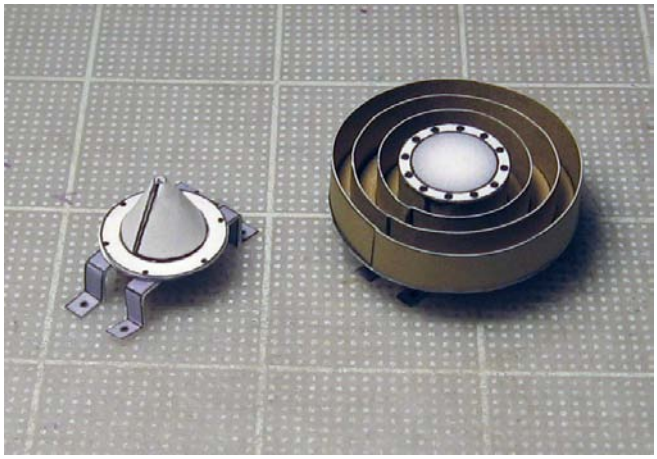


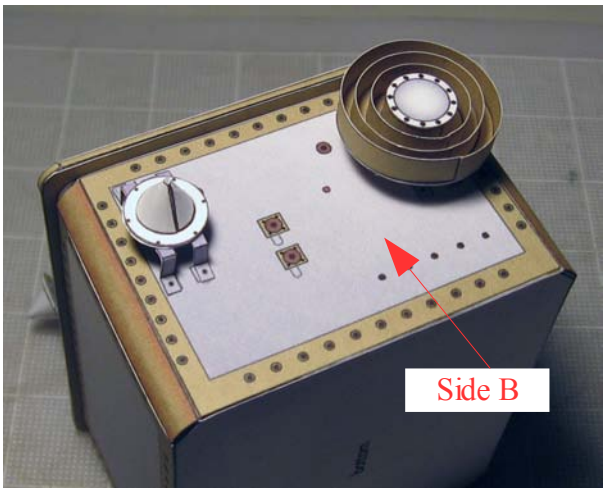


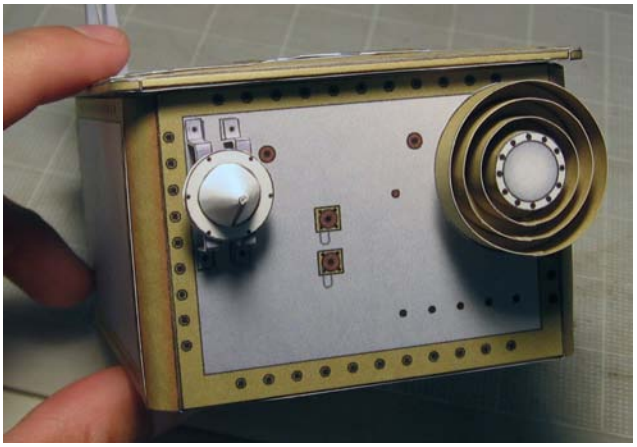


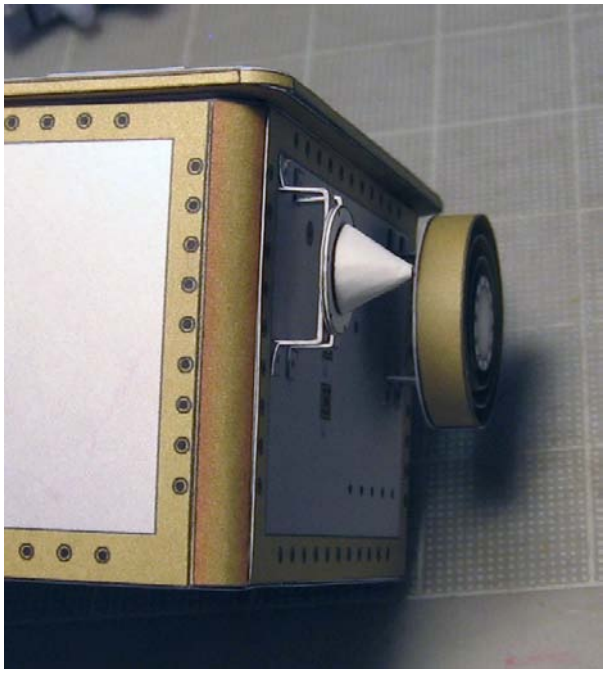


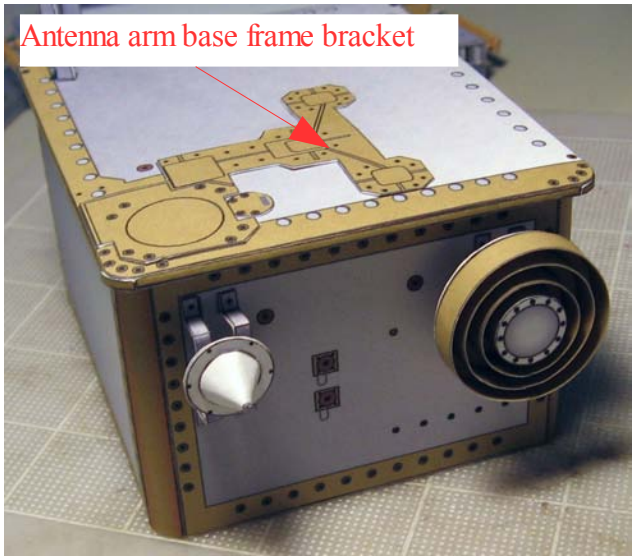


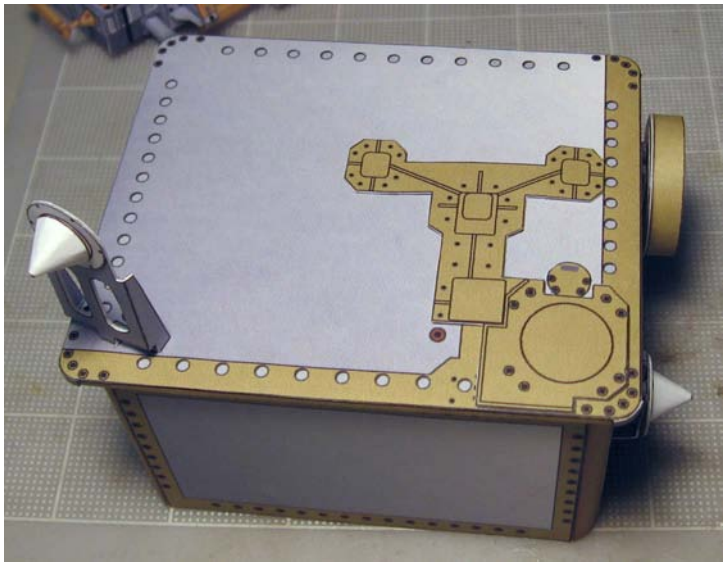



Side B

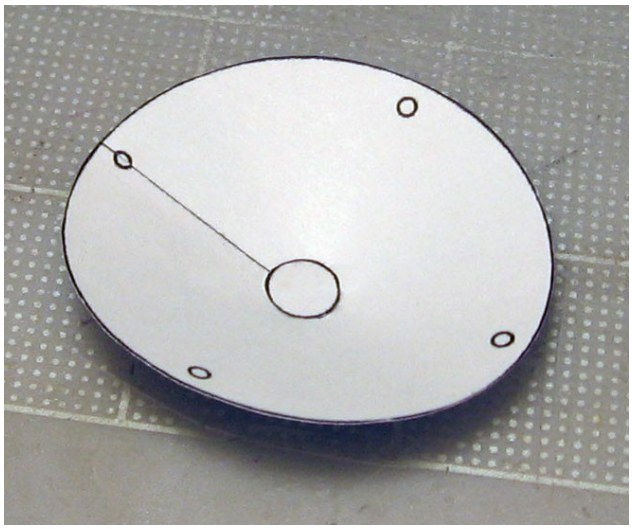


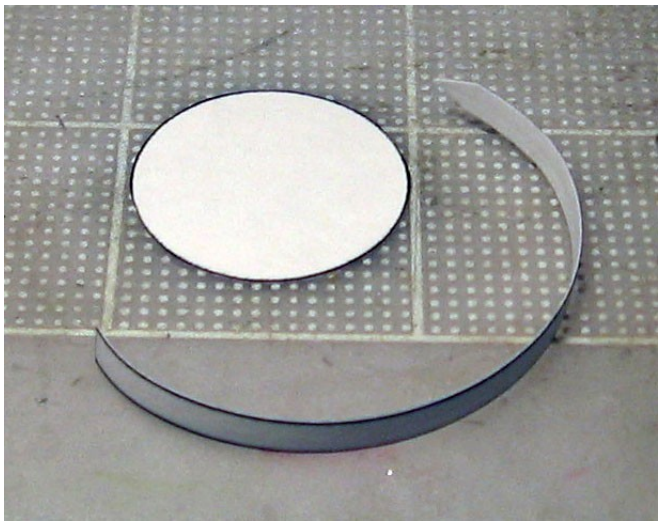


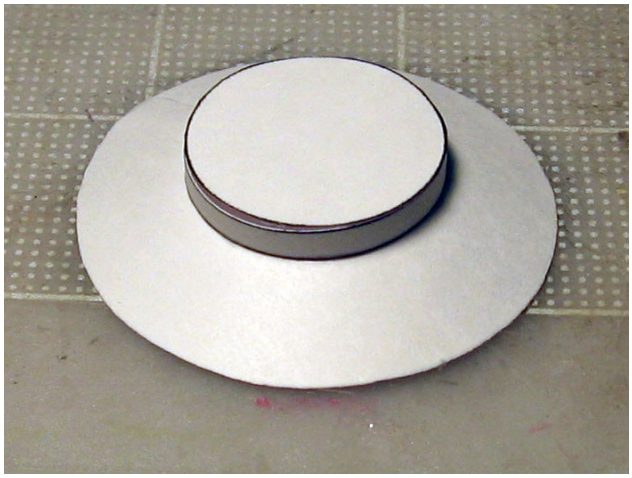

Antenna arm base frame bracket

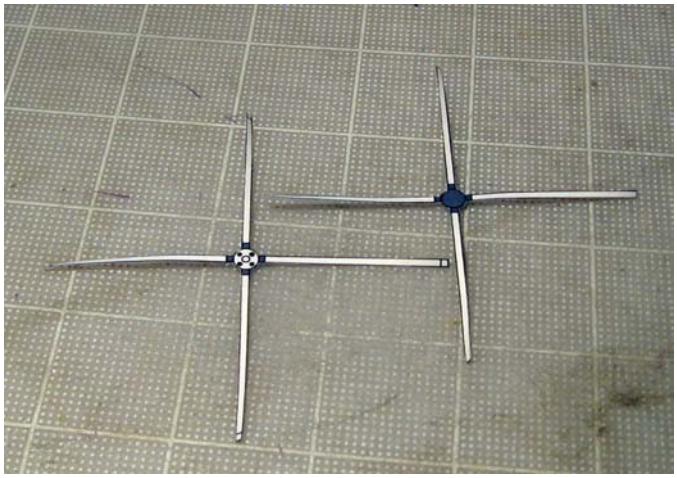


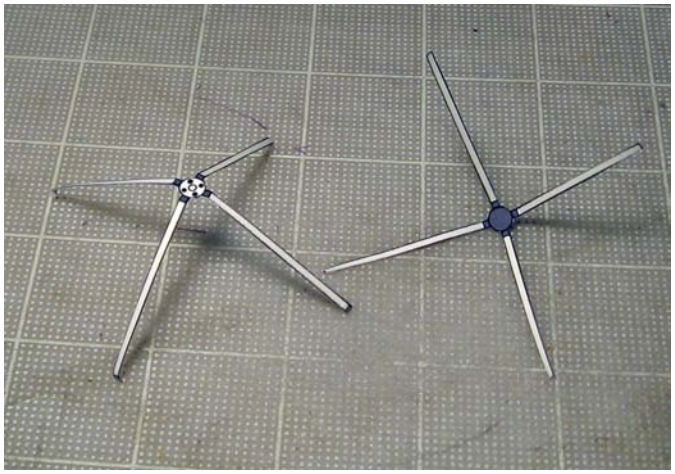
Building the Ka-Band HGA antenna

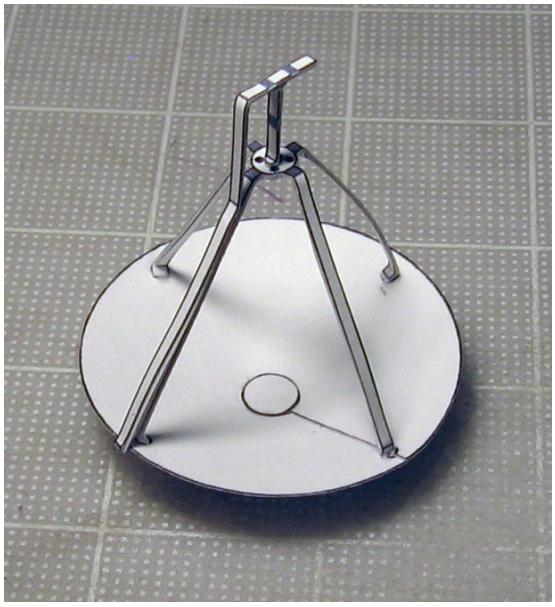




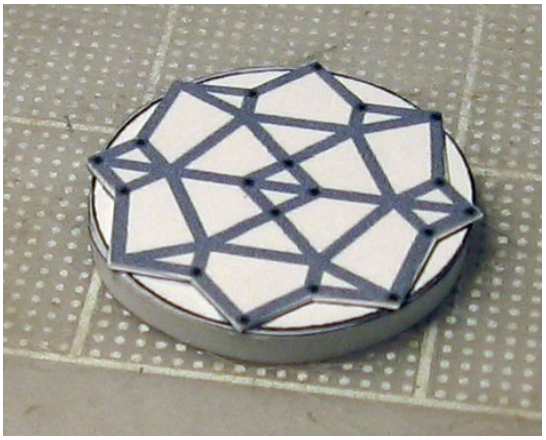


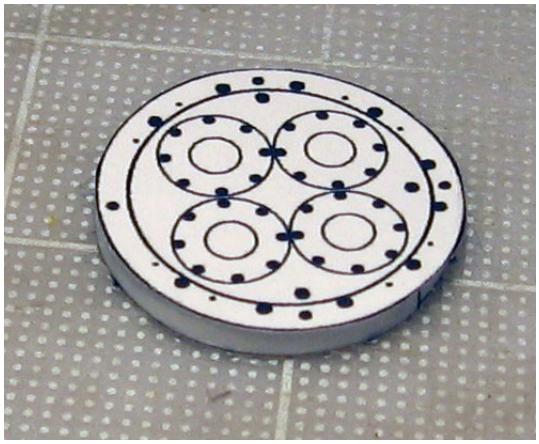


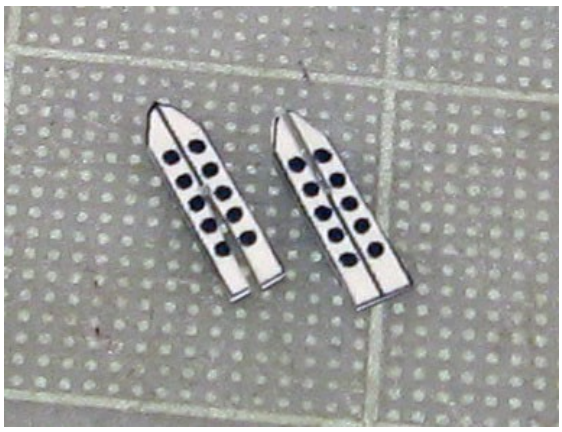


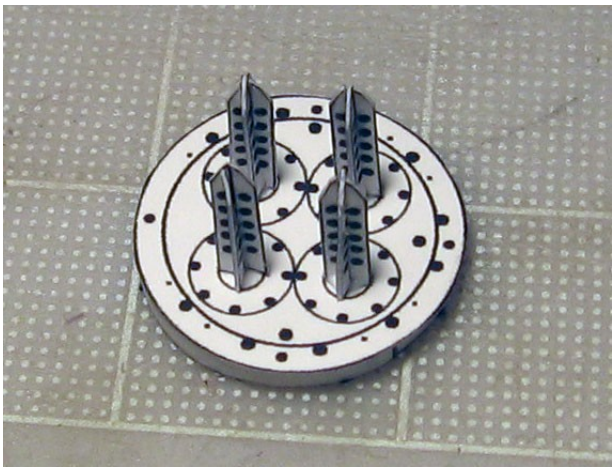


Building the S-Band MGA antenna

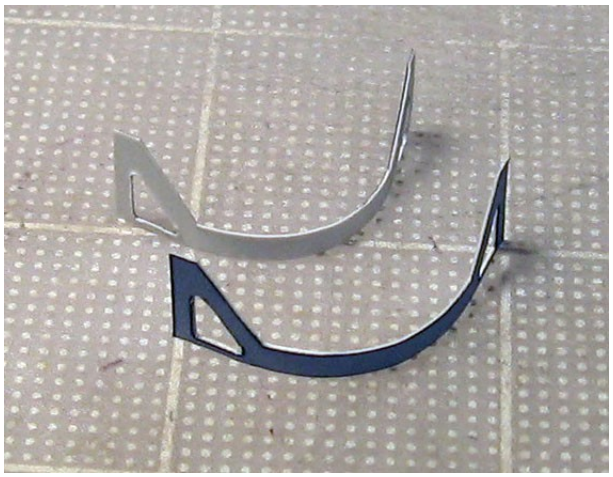


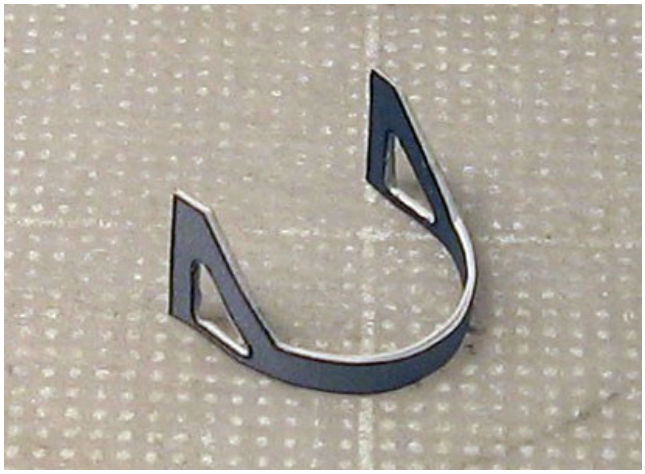


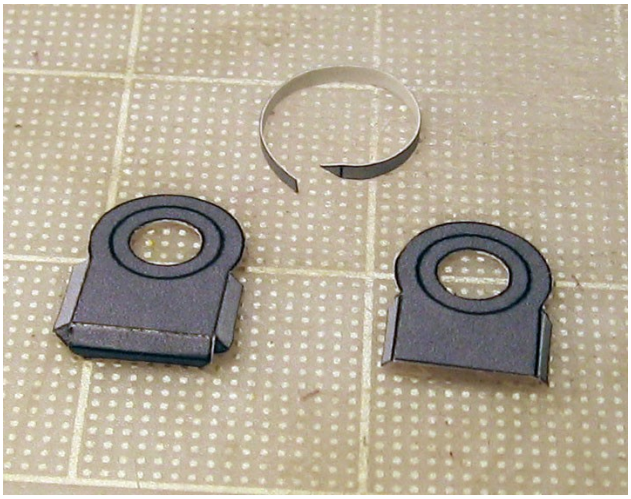


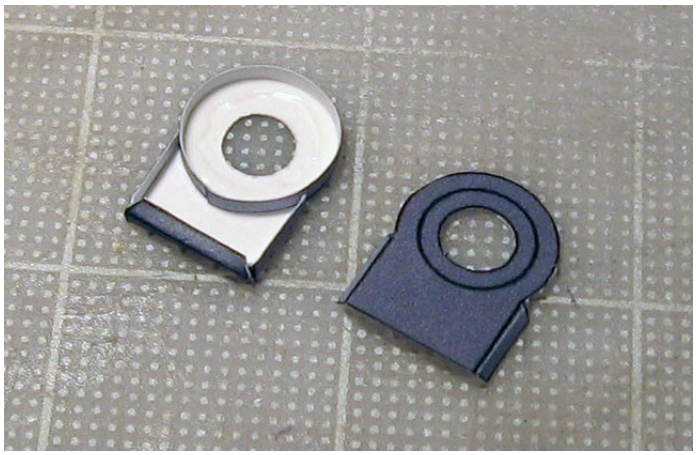


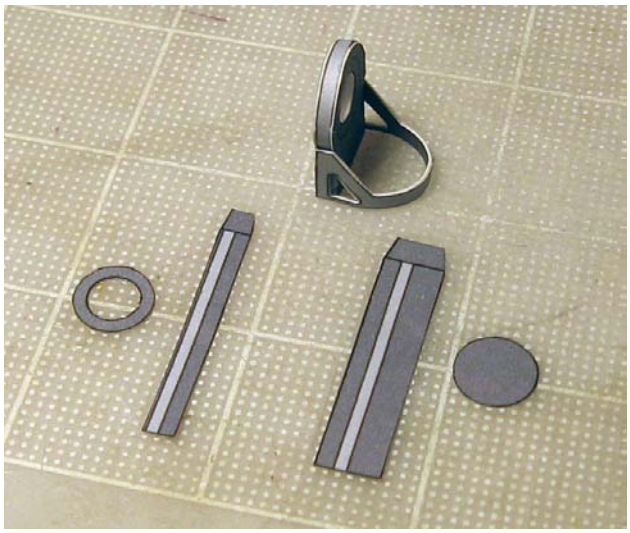
Building the Integrated Gimbal Assembly

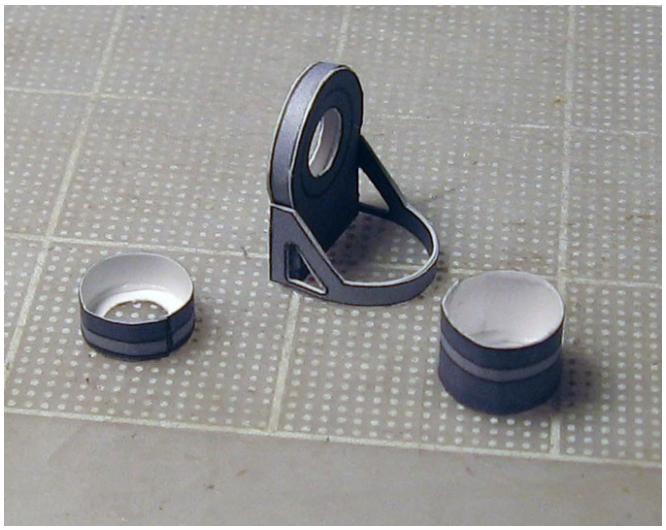








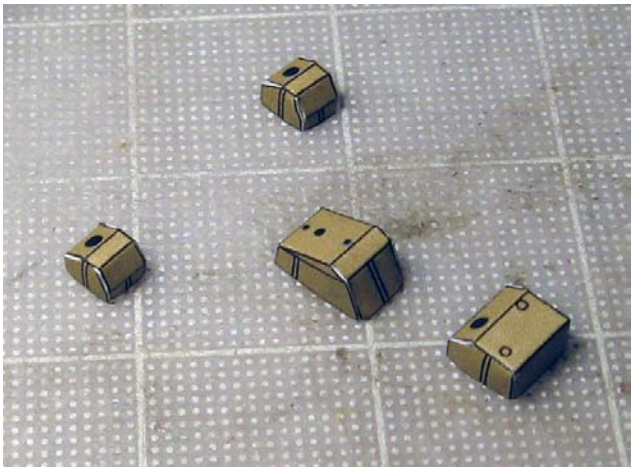


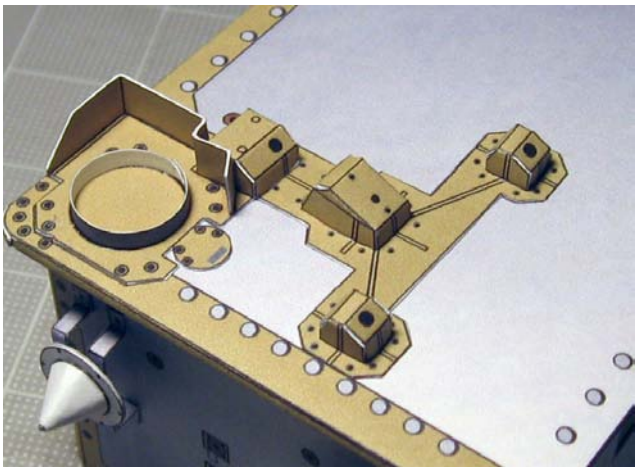


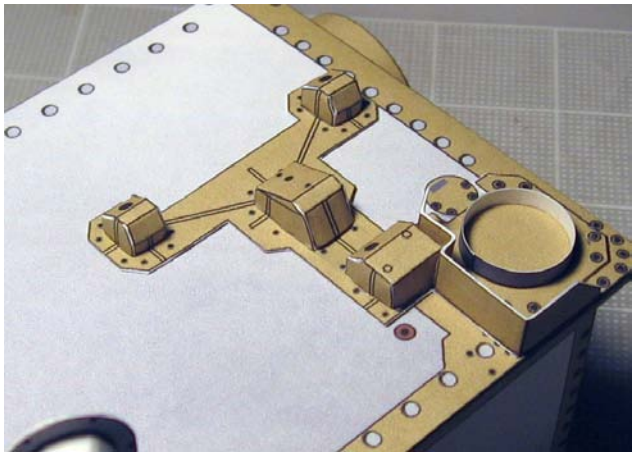
Important:

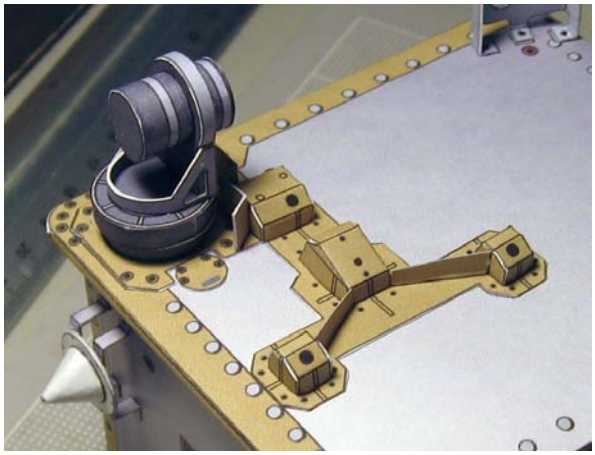
Do not glue the Integrated Gimbal Assembly on top of the SCAN box. It has been designed to rotate.

Adding details to the Base Frame Bracket

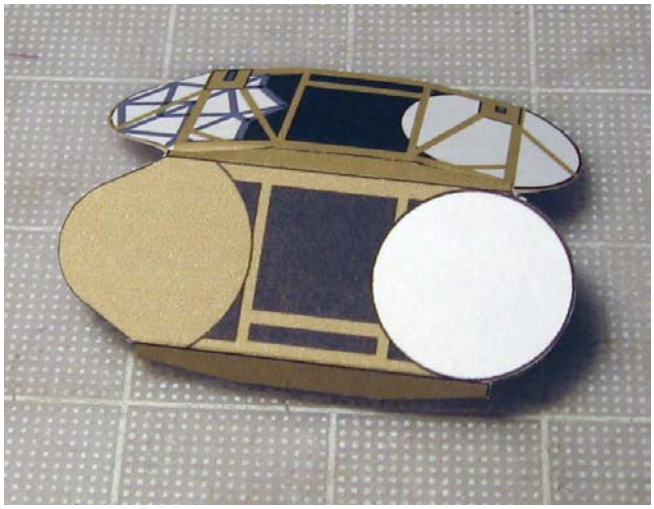


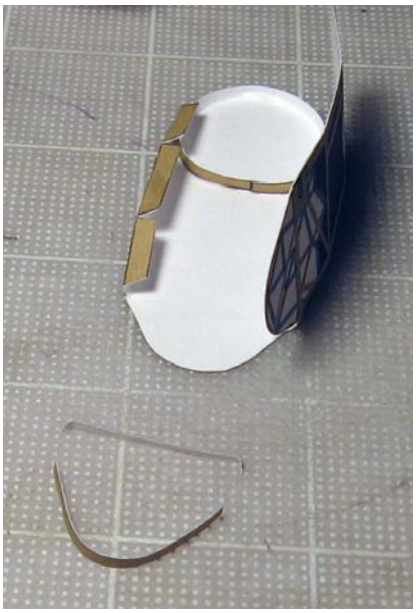


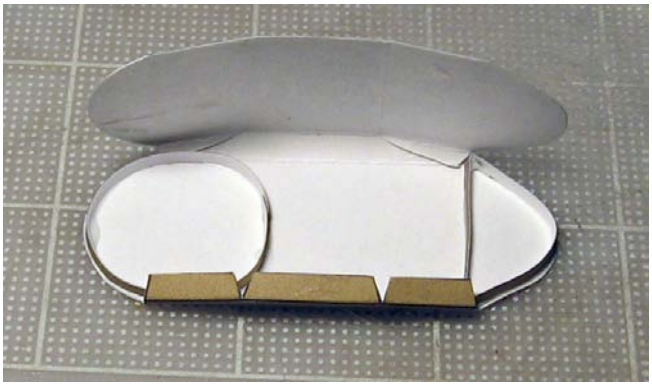


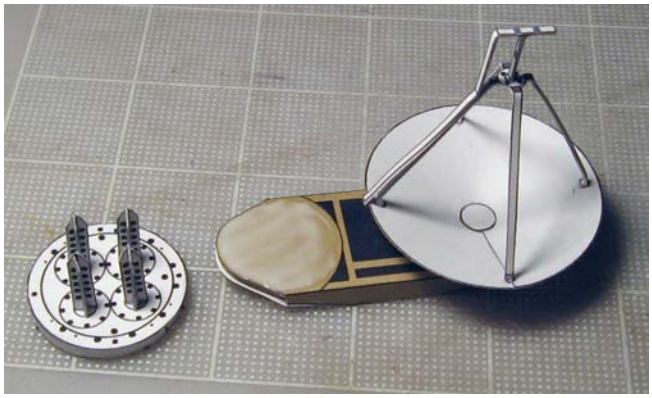


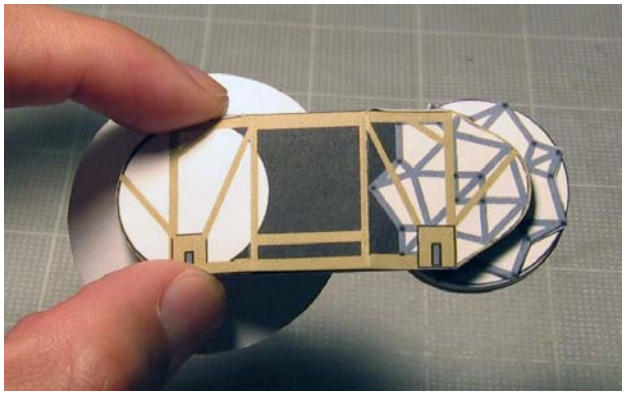
Building the plate that holds the antennas

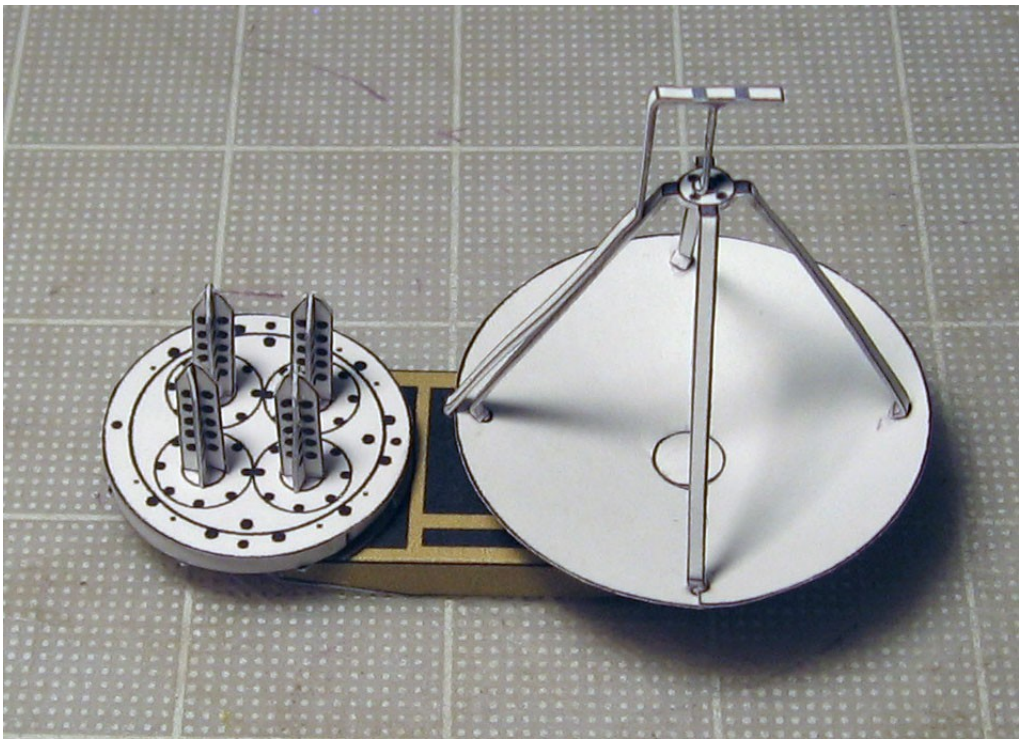




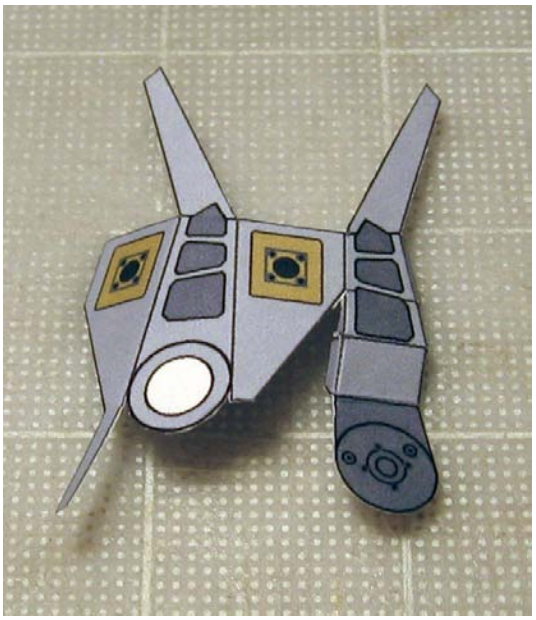


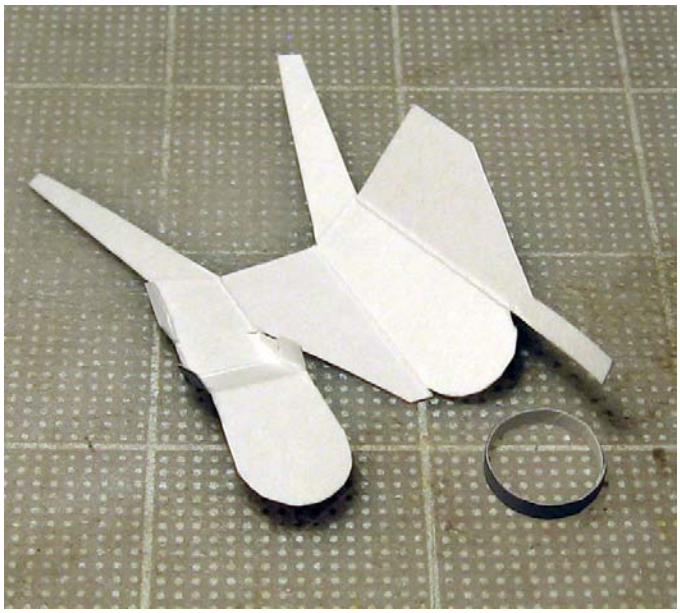


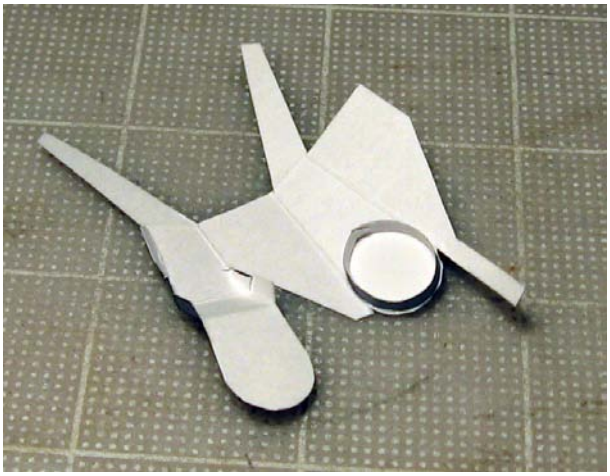


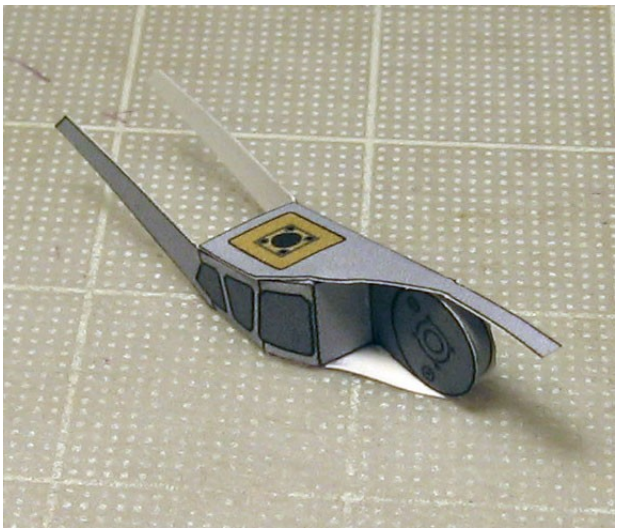


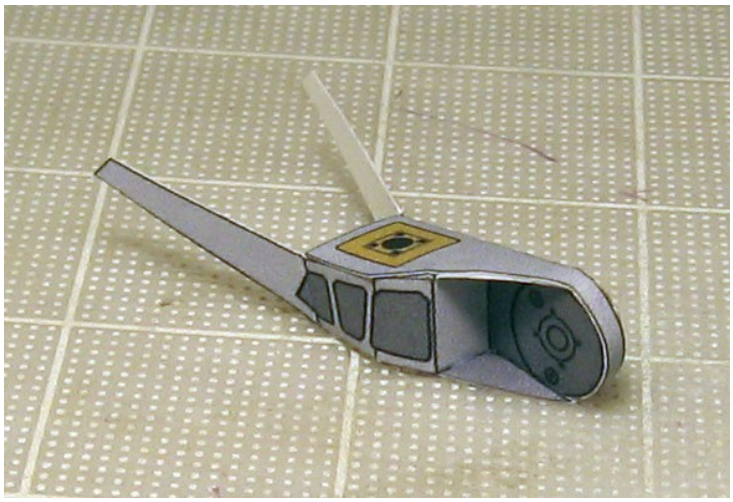
Building the Antenna Arm

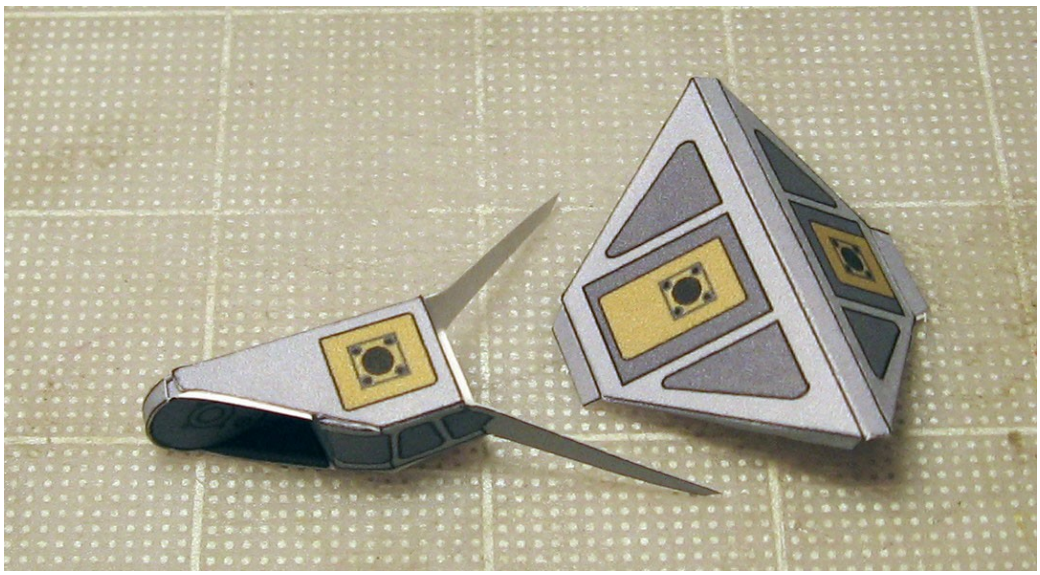


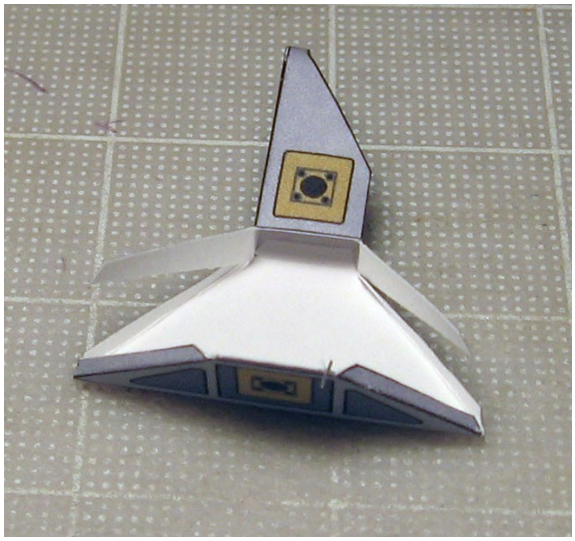


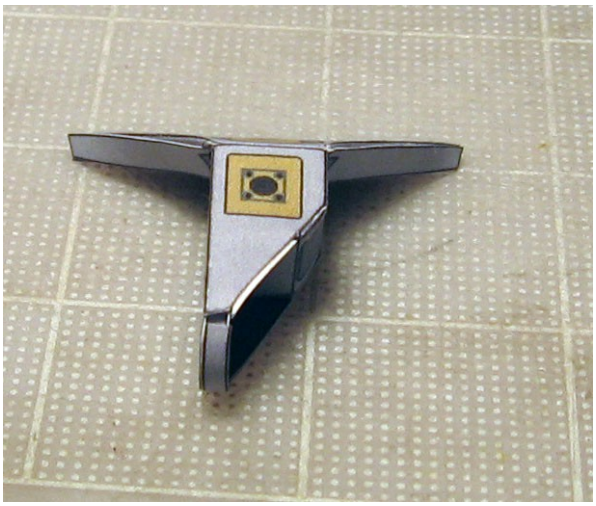


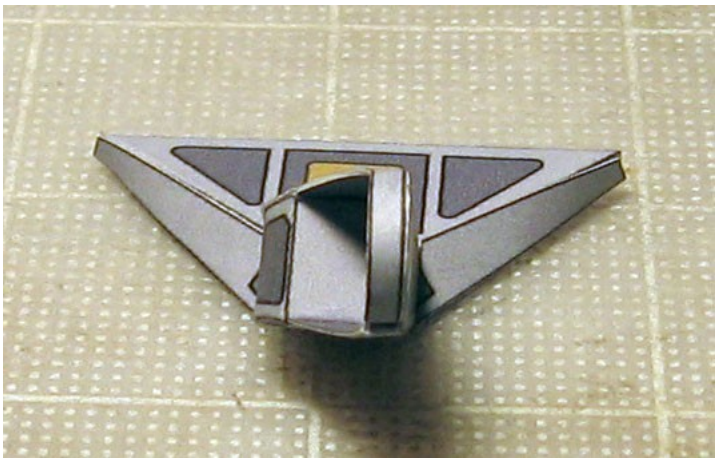


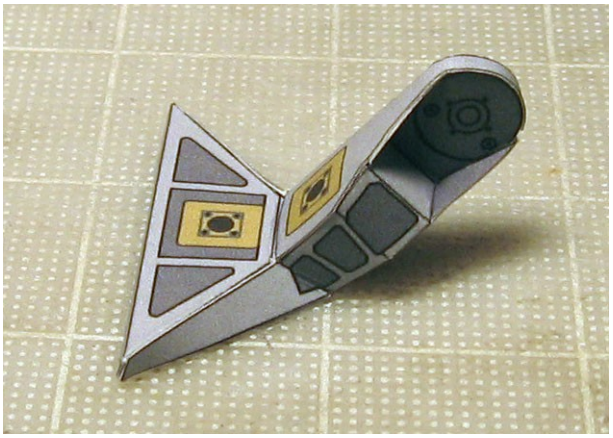


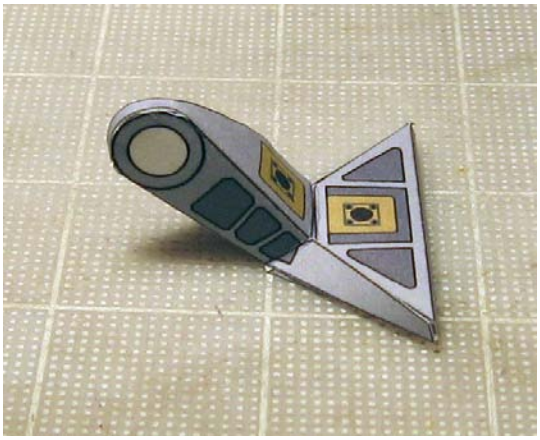


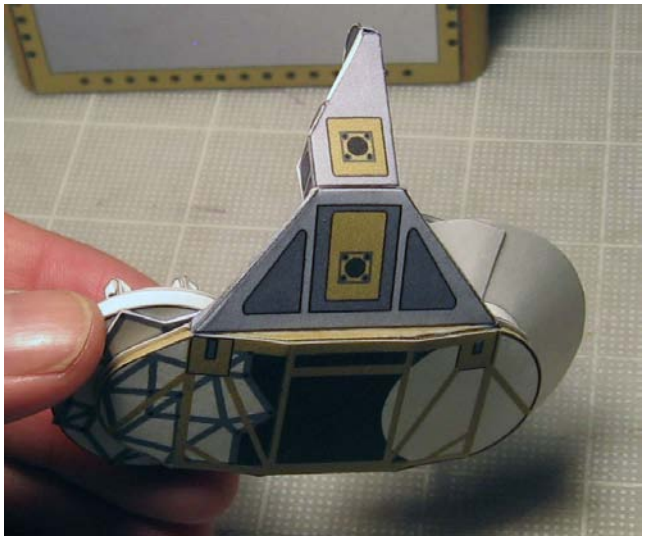


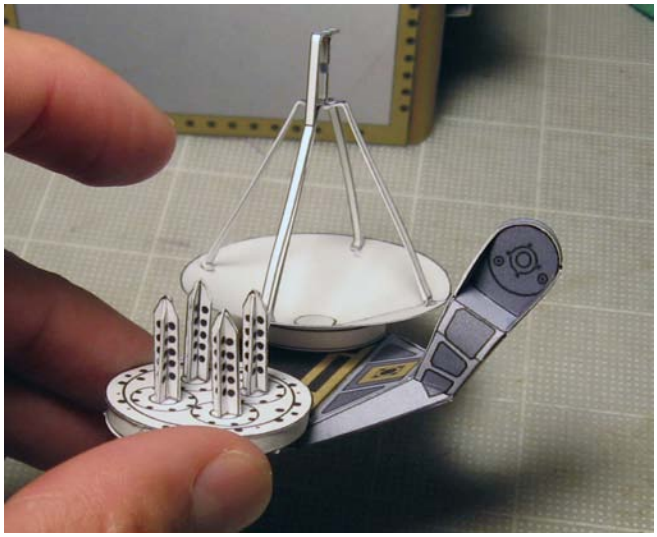


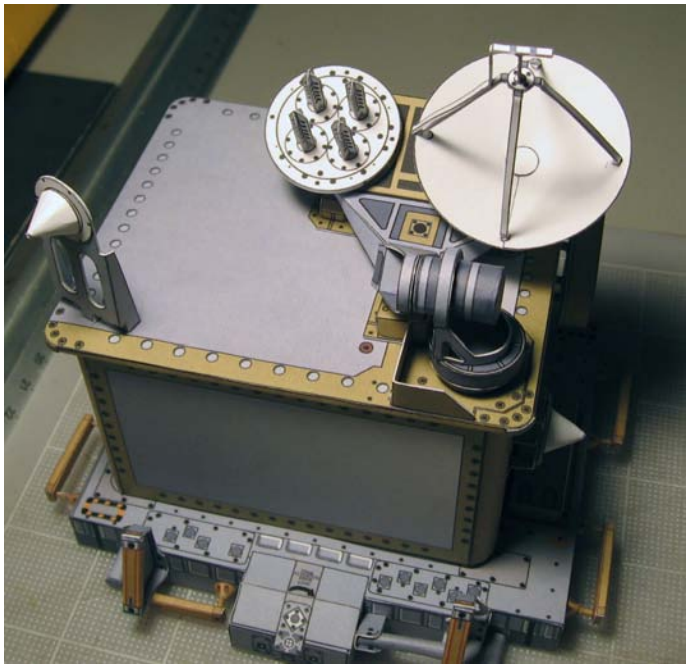








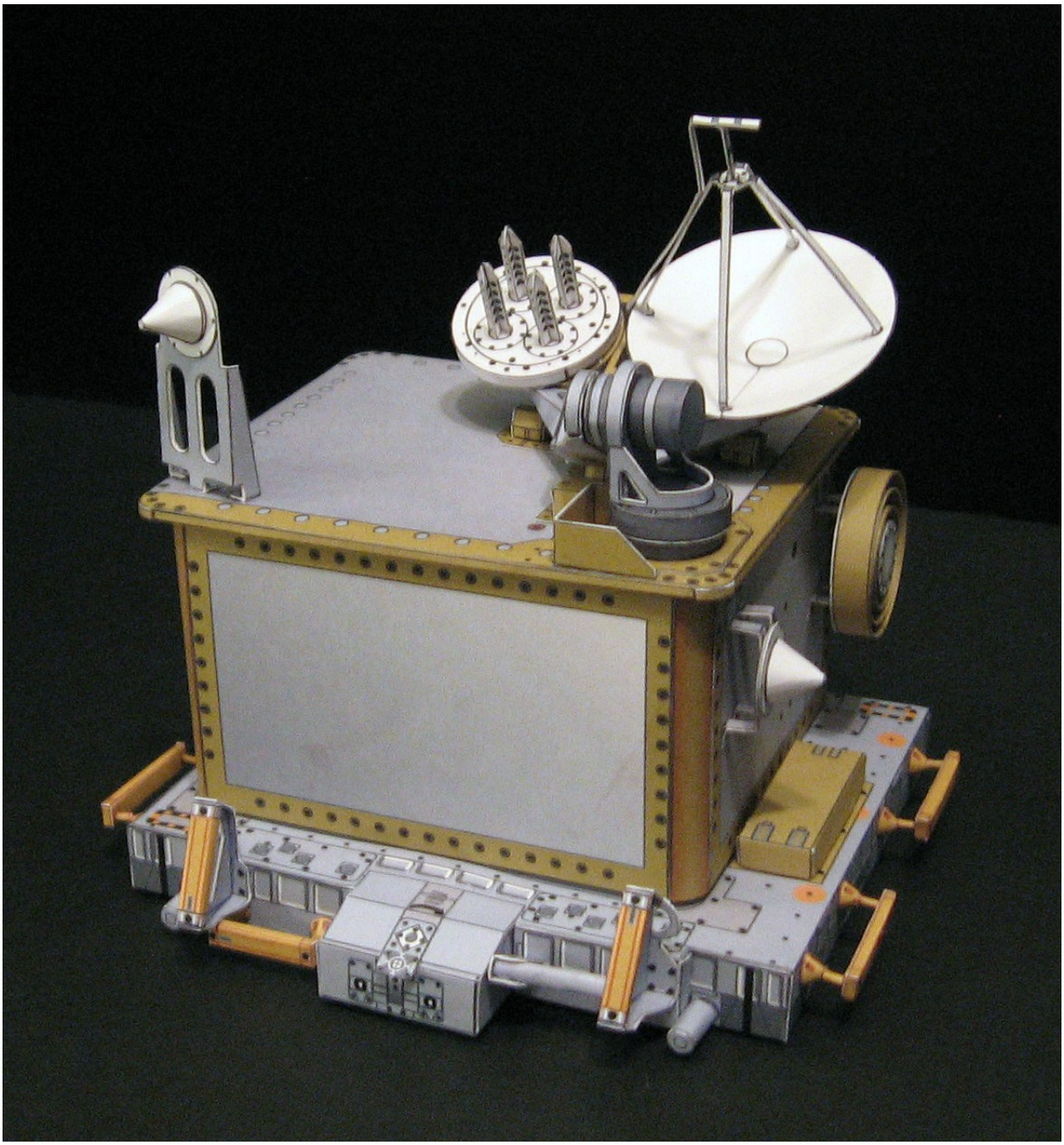


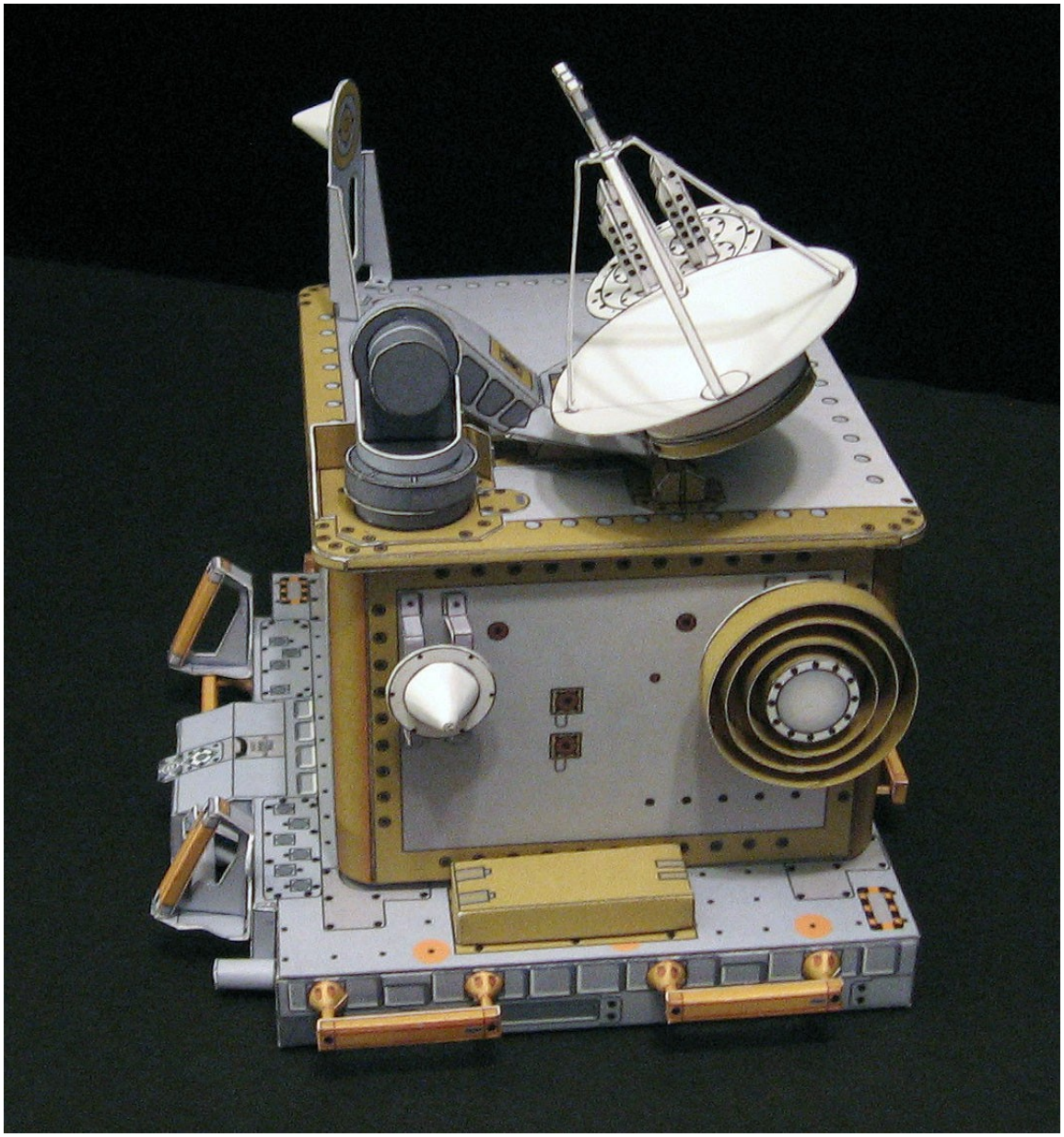


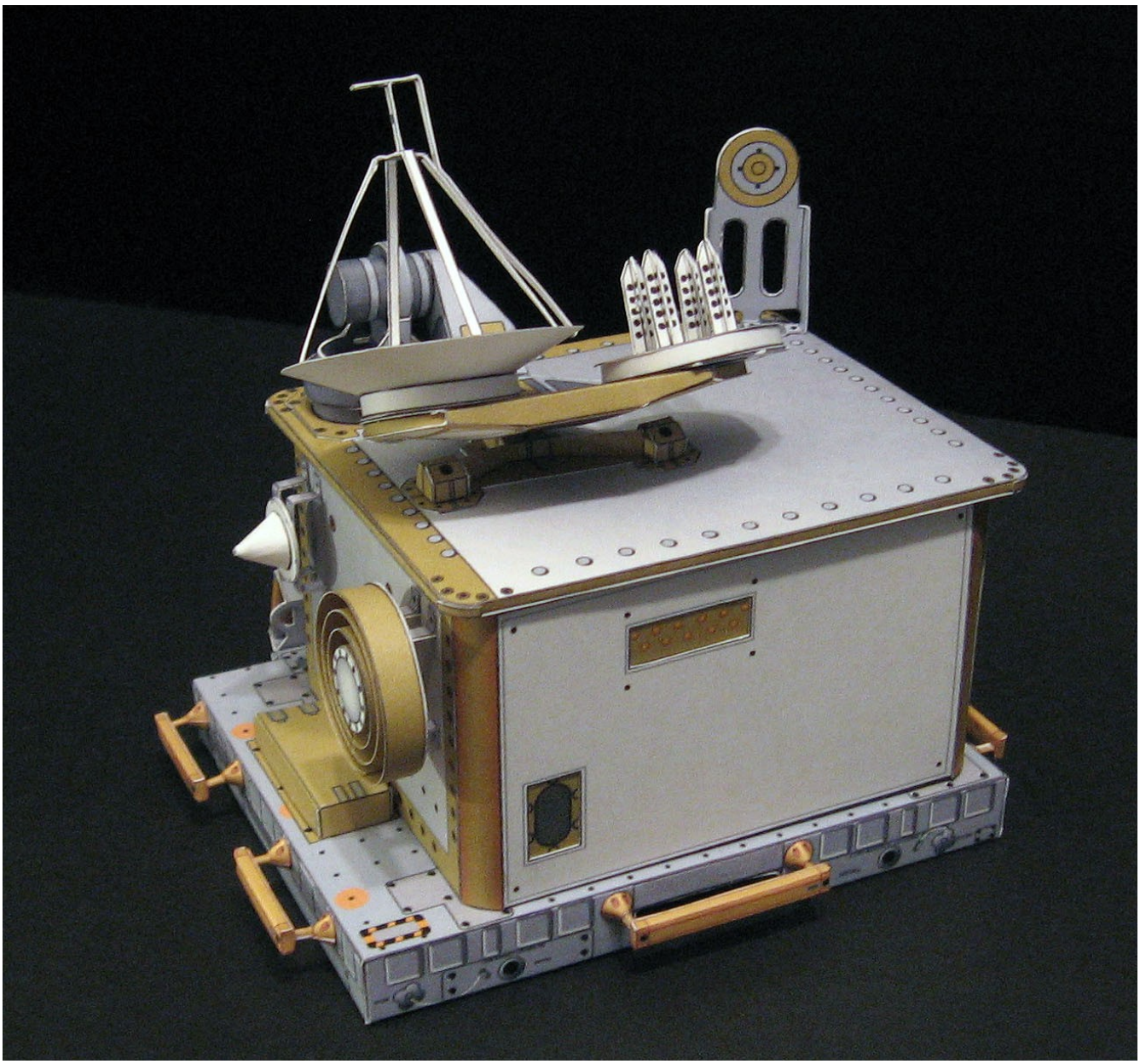
Important:

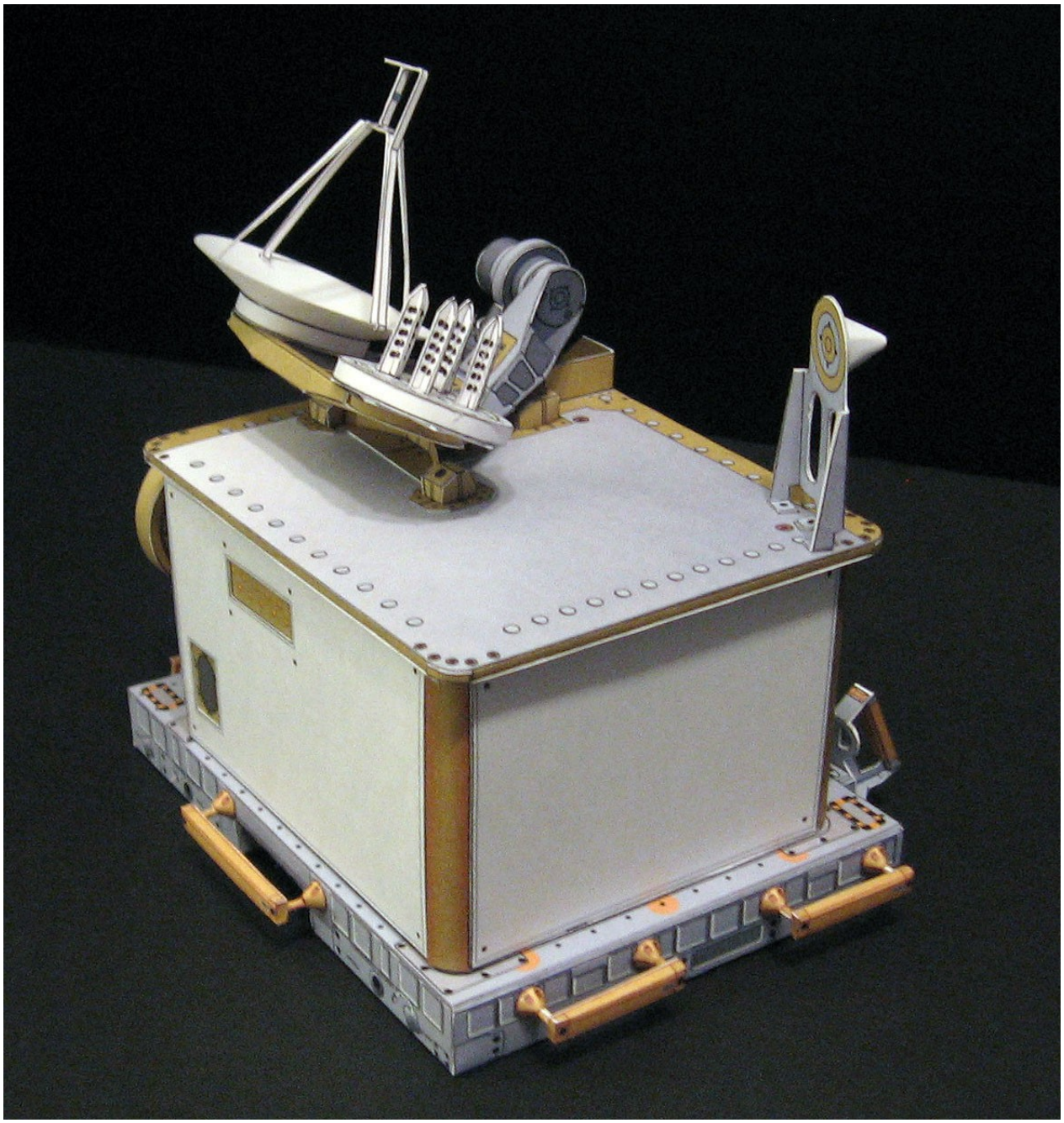
Do not glue the Antenna Arm to the Integrated Gimbal Assembly. The arm has been designed to elevate the antennas.

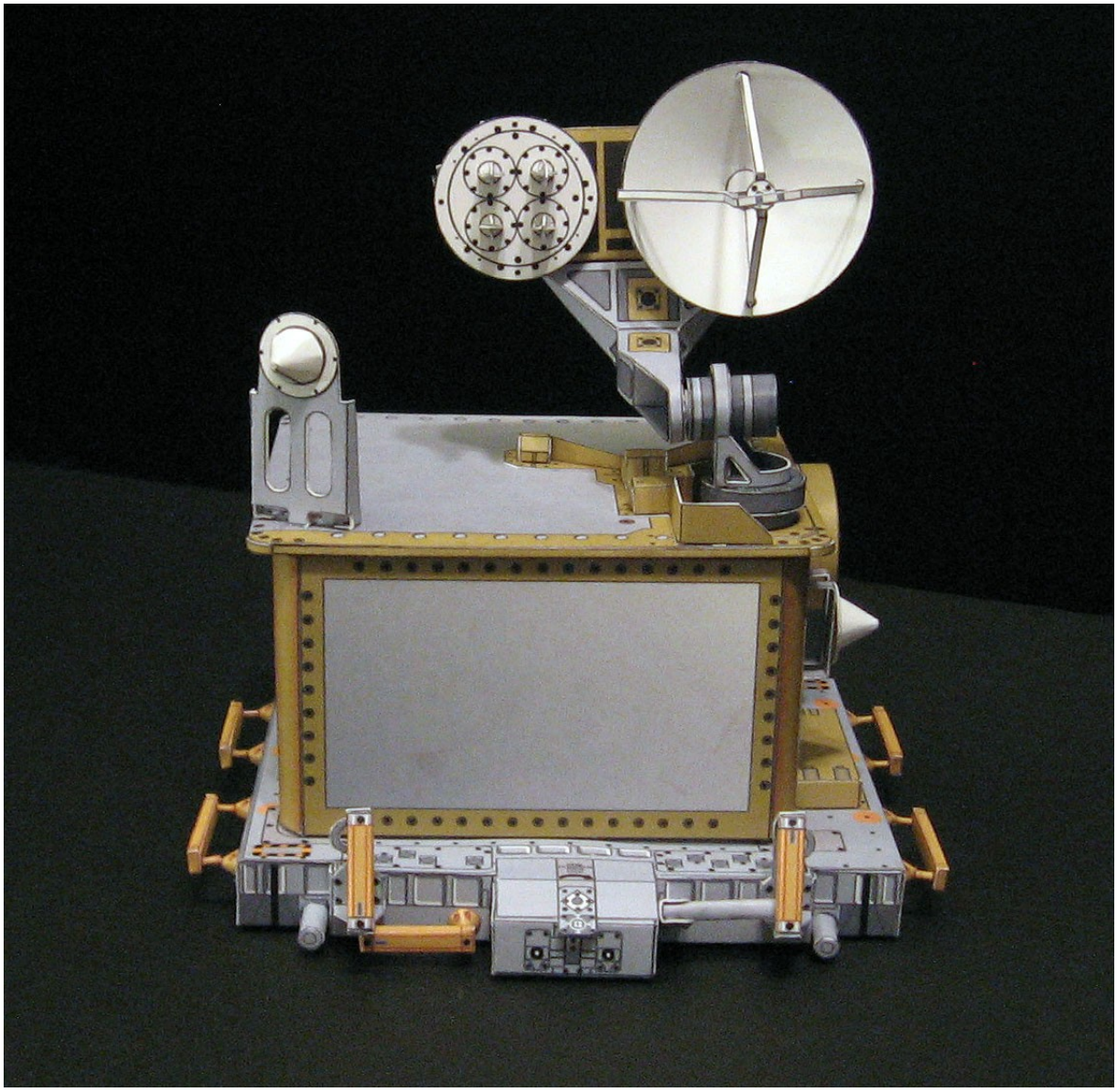
Reference Photos

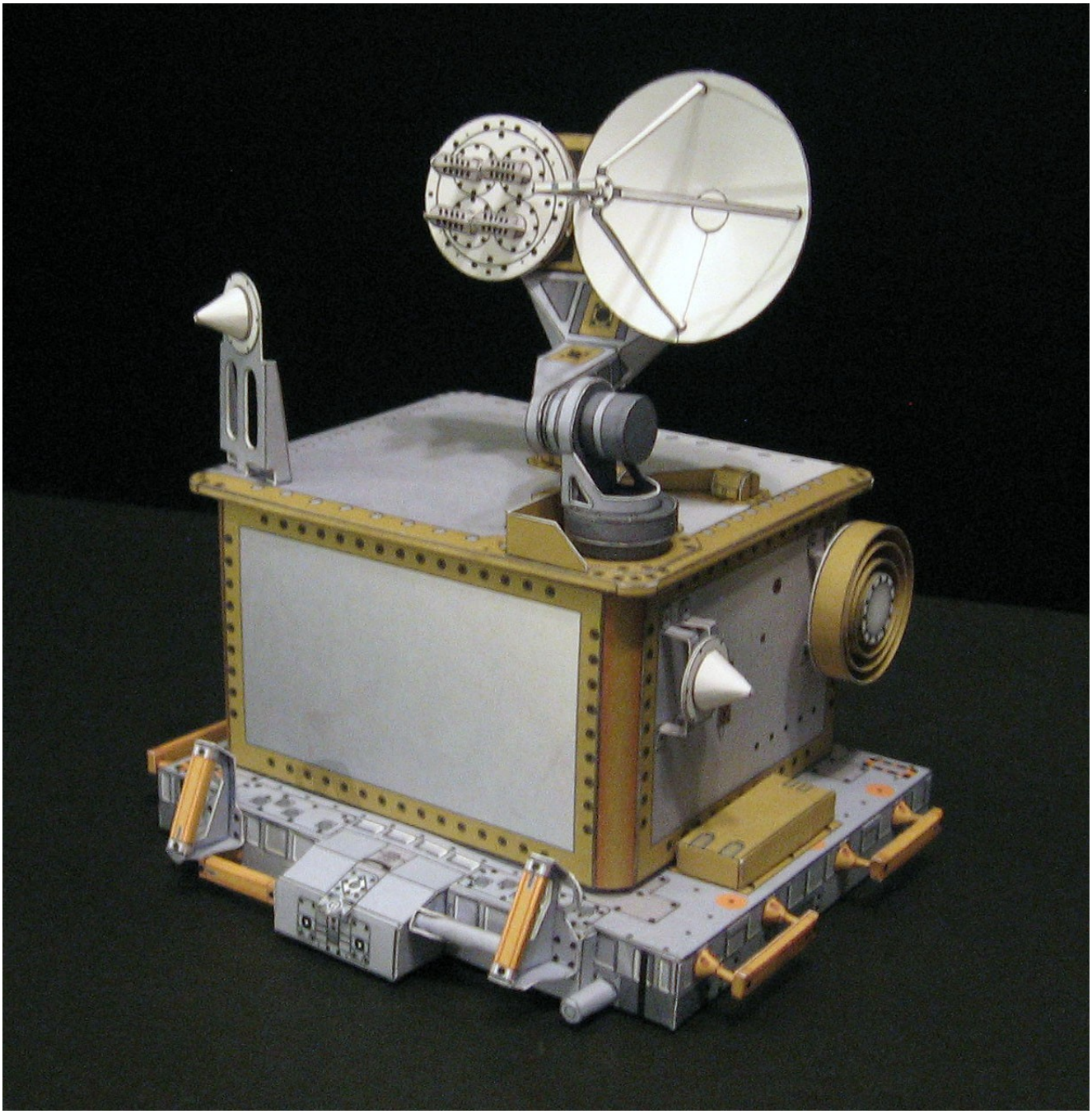


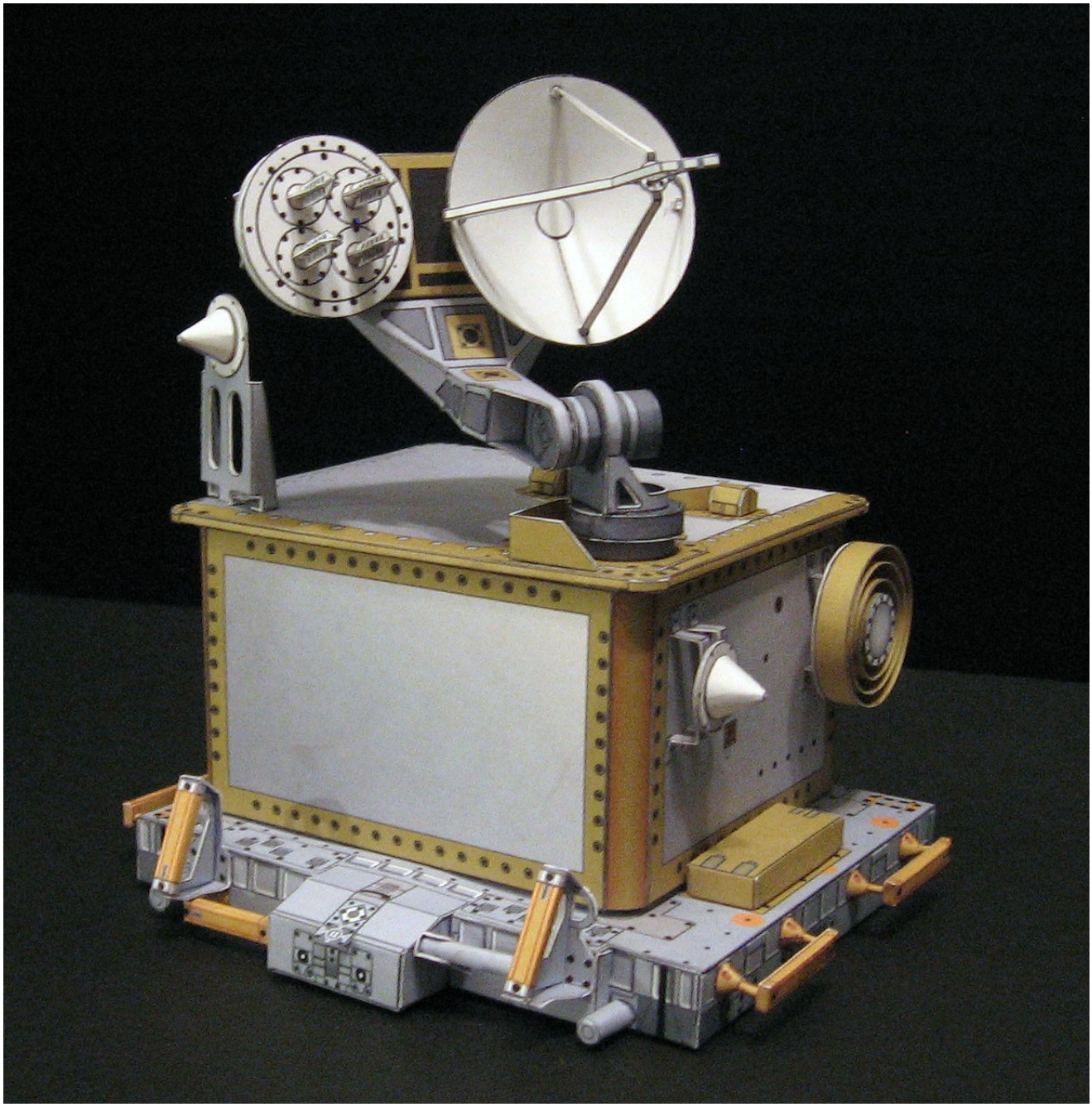


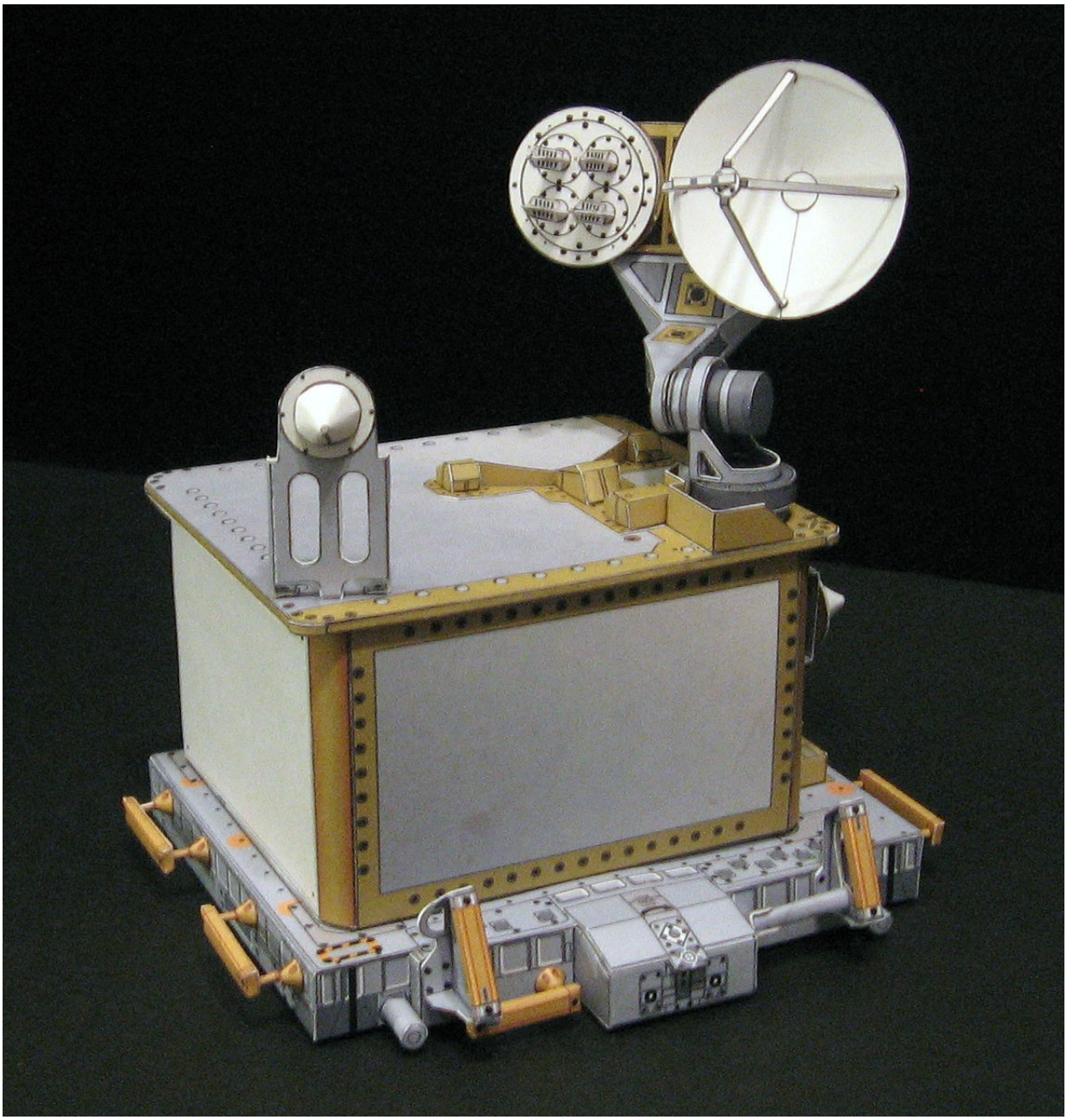


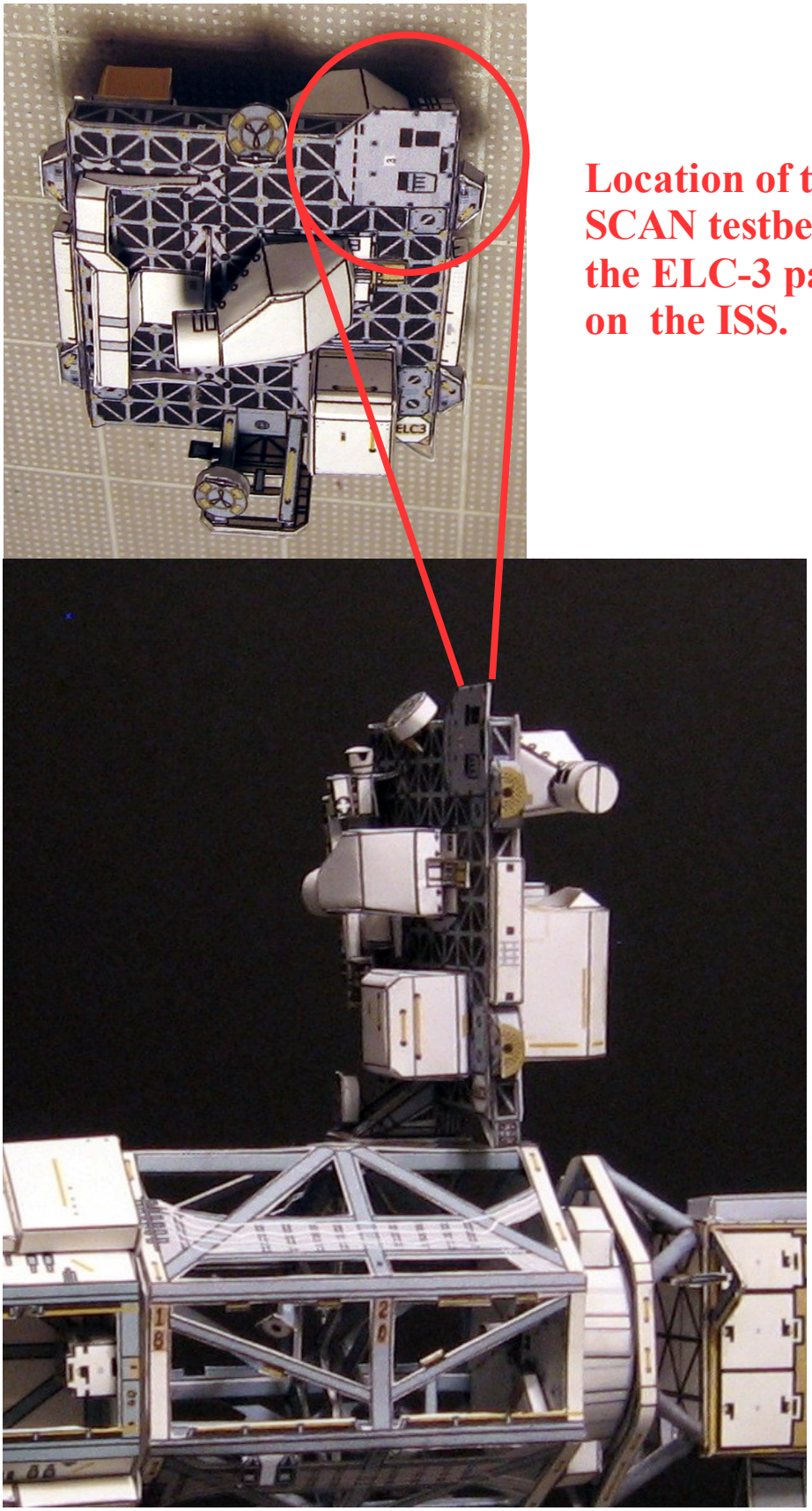












Location of the SCAN testbed on the ELC-3 pallet on the ISS.

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