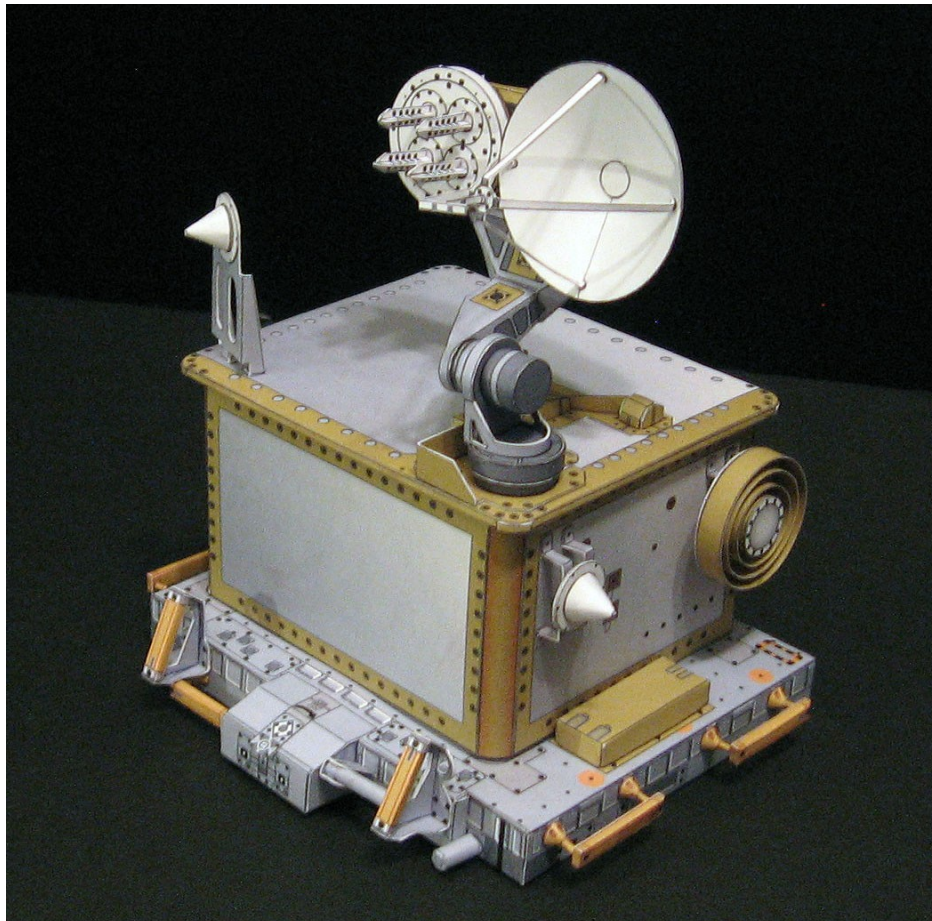


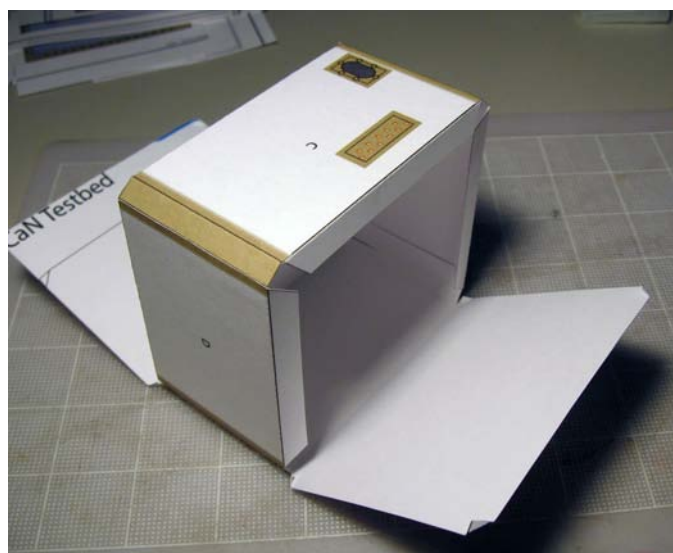
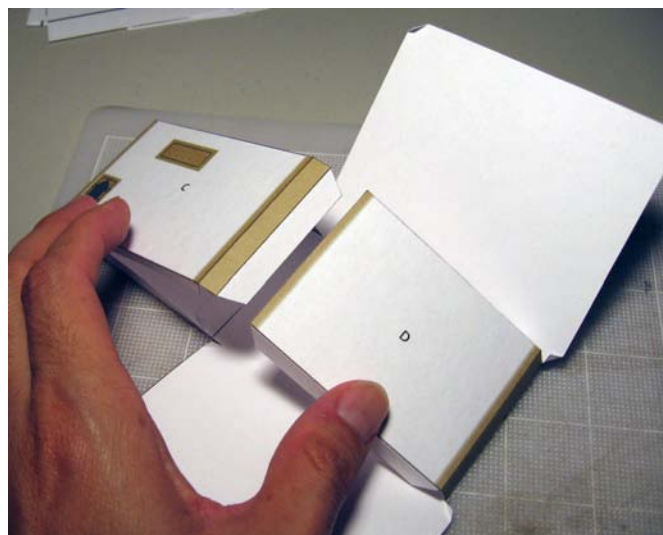
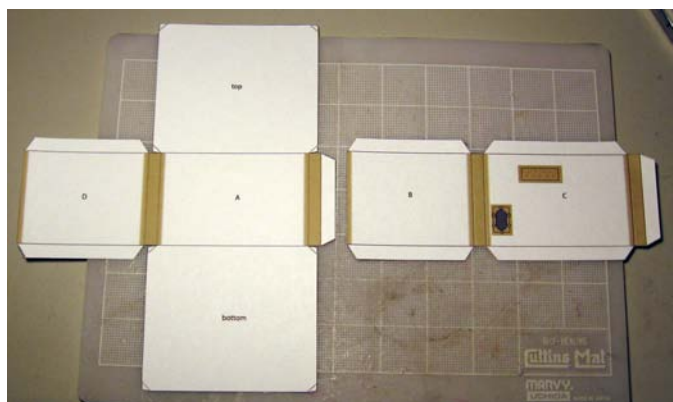


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## SCAN TESTBED Payload 1:10 Scale Model

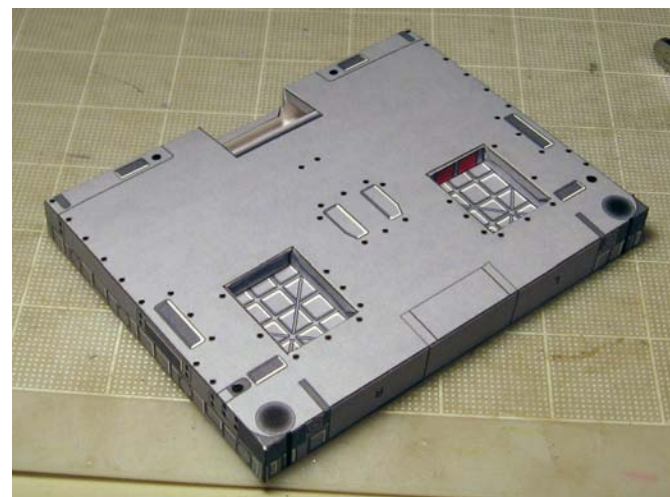
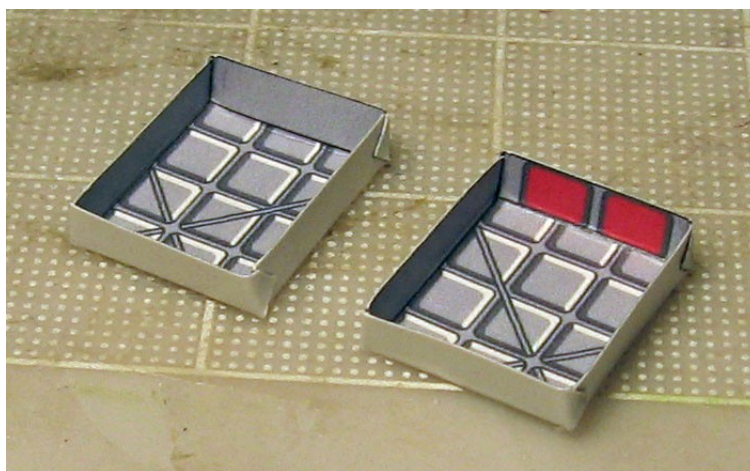


## Assembling the main box

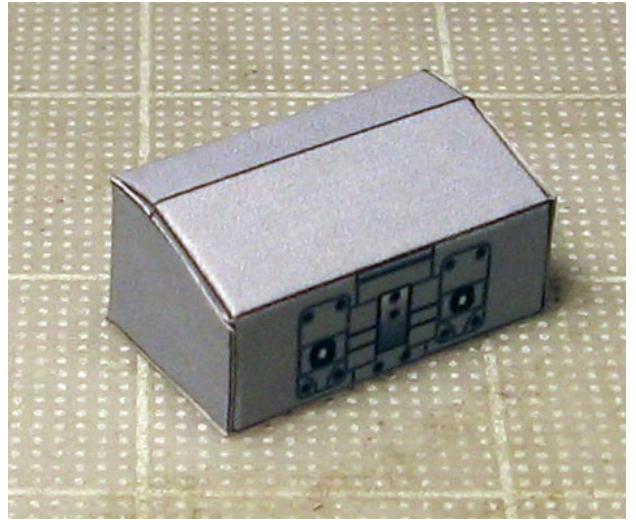
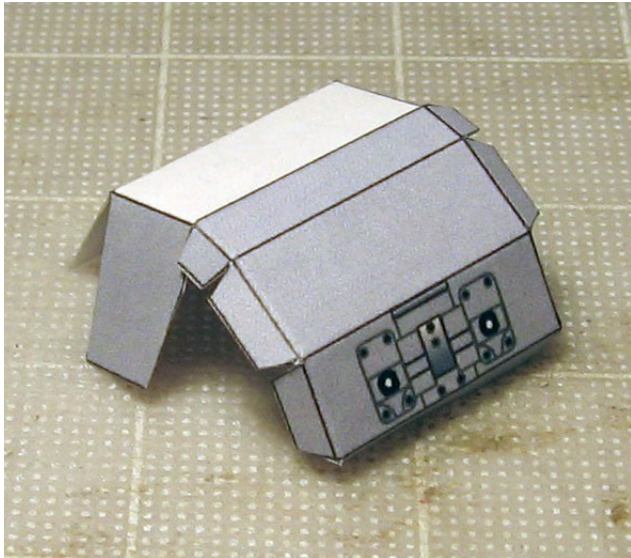
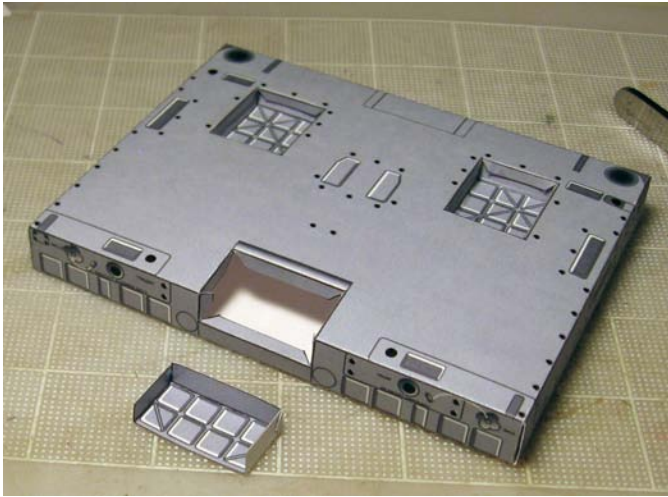




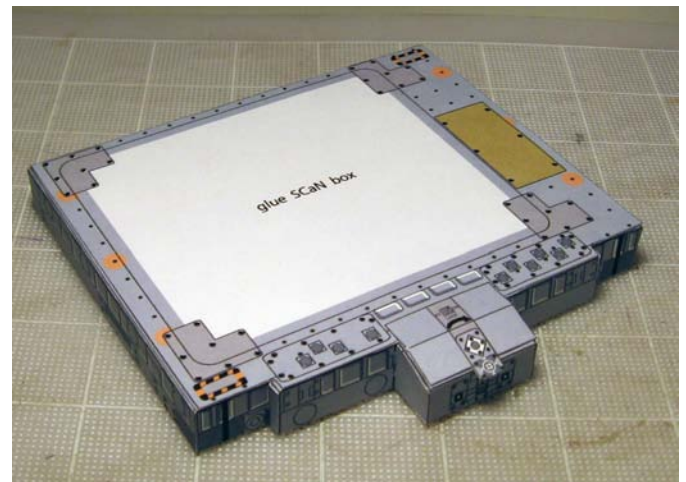
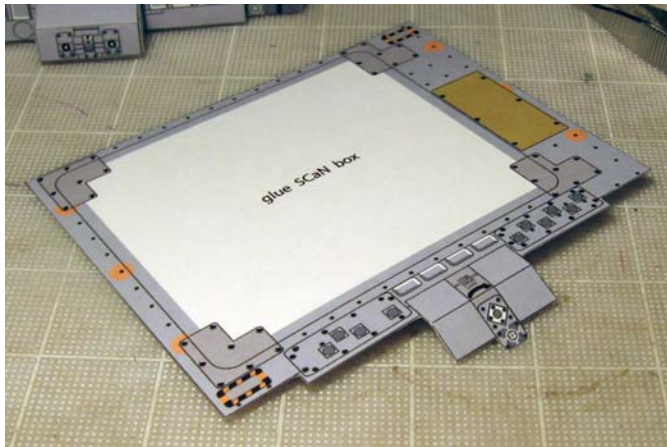
## Assembling the FRAM box



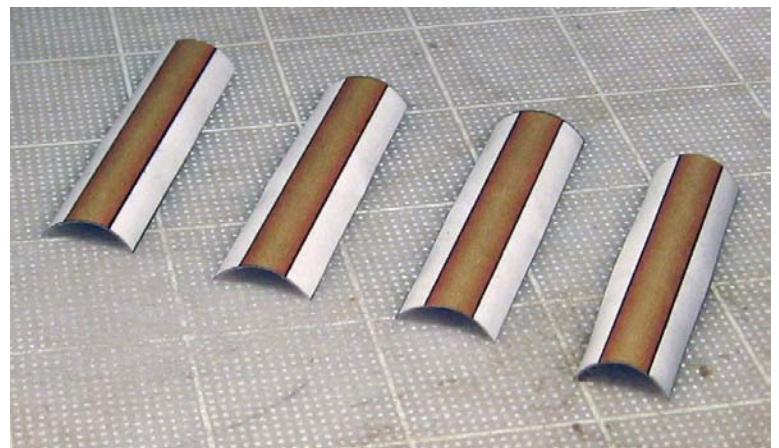
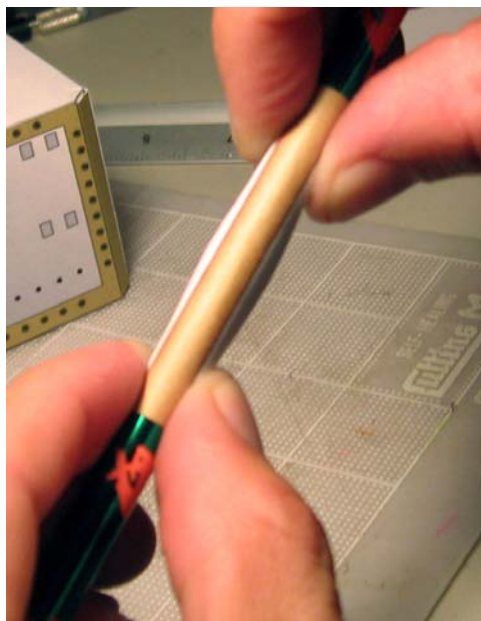




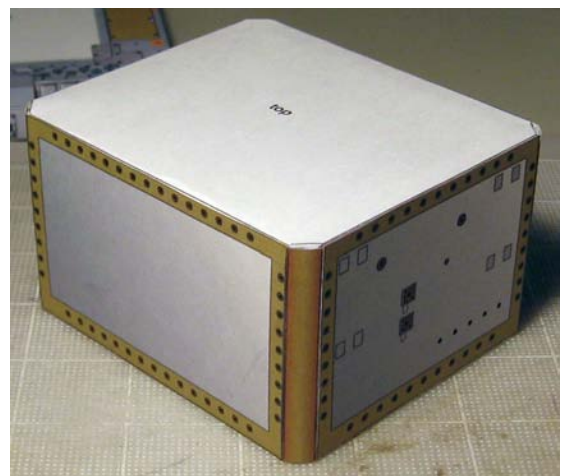
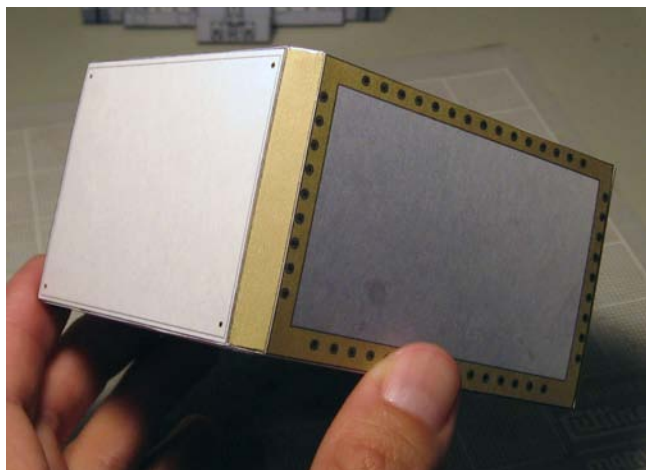




Adding the rounded corners, walls and top of box



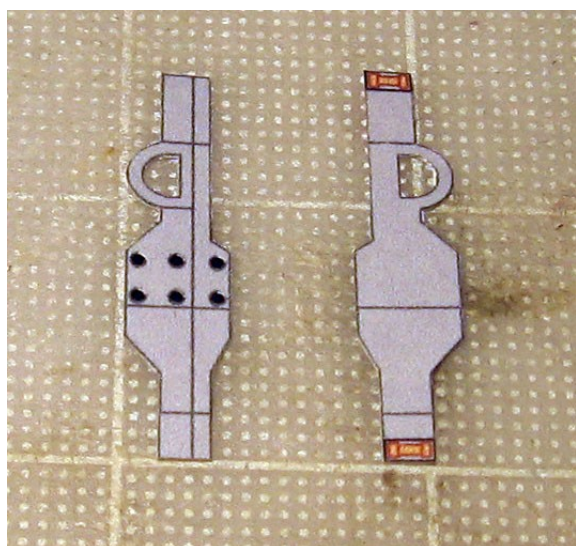
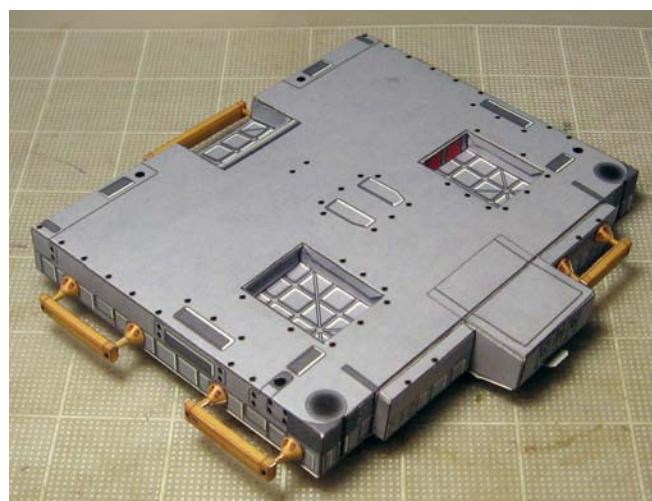
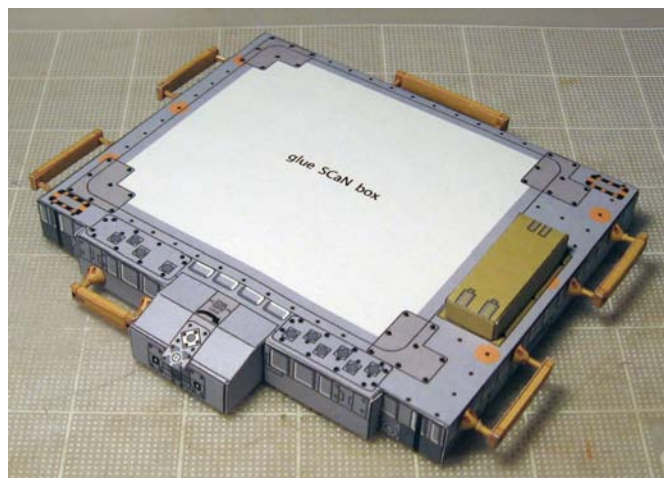
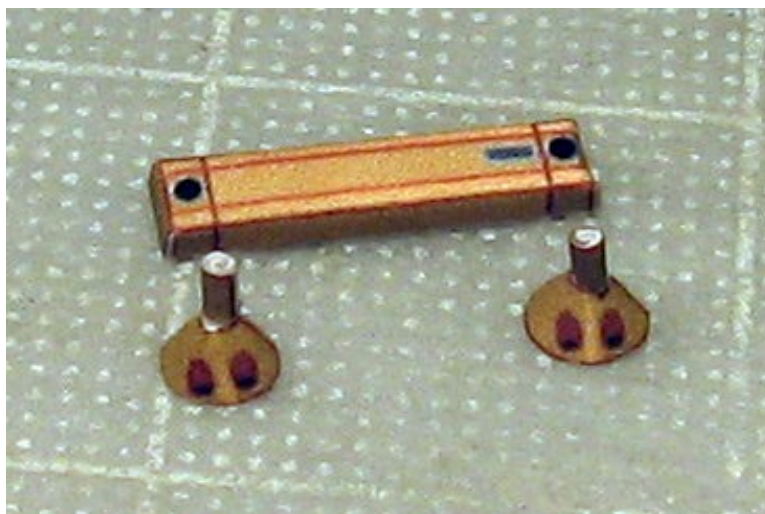
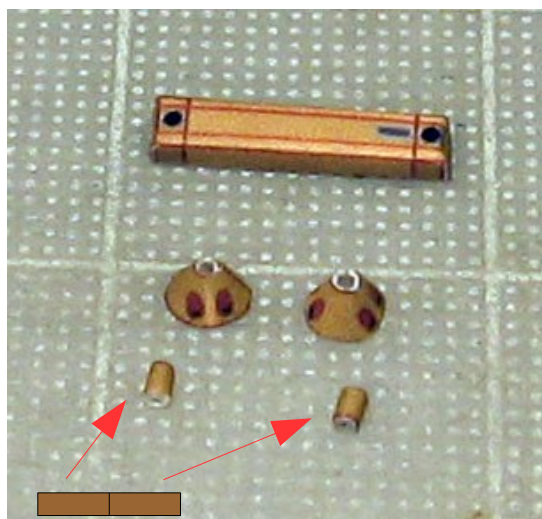
Each round corner part was designed with white areas so it will be easy to curve around a pencil. Once these parts are curved, cut out the white areas.



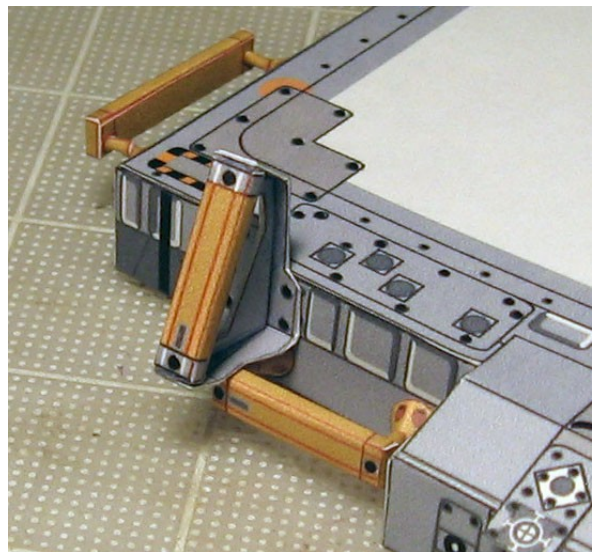
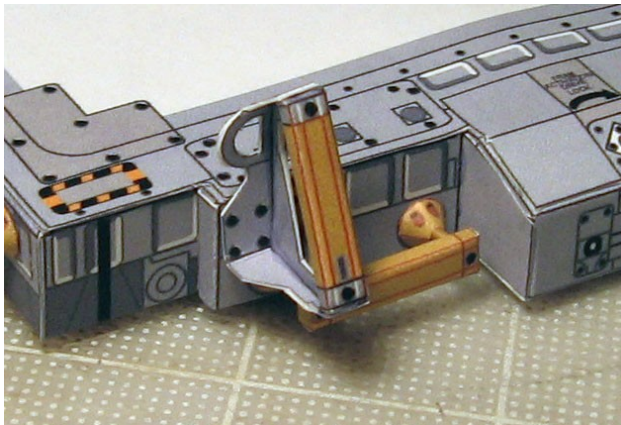




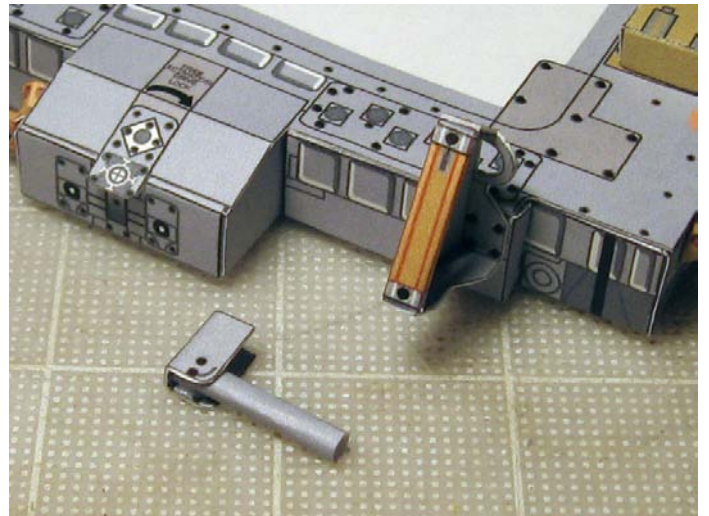
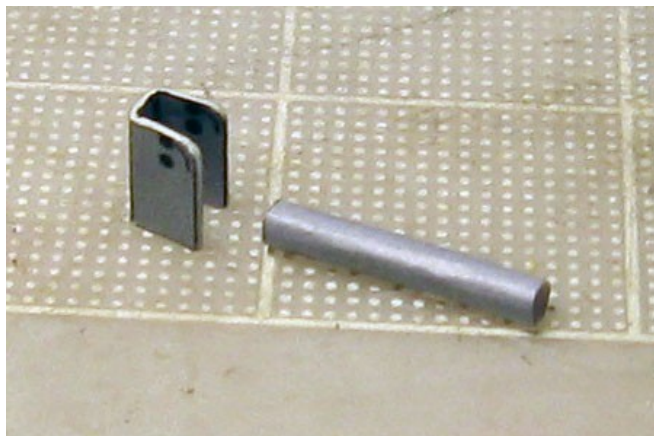
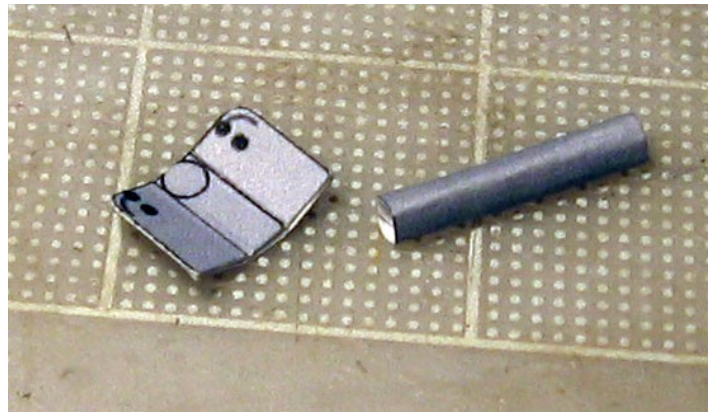
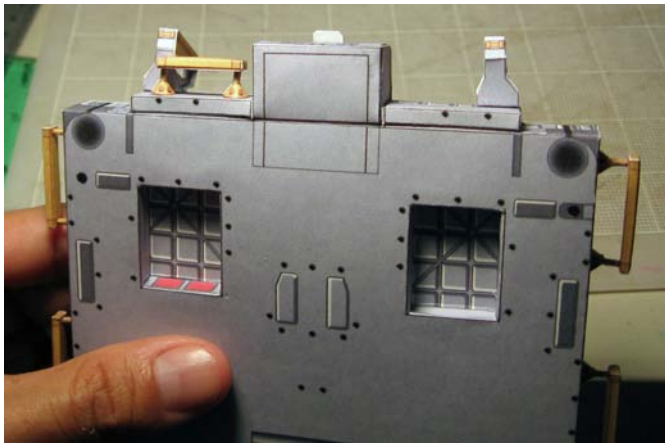
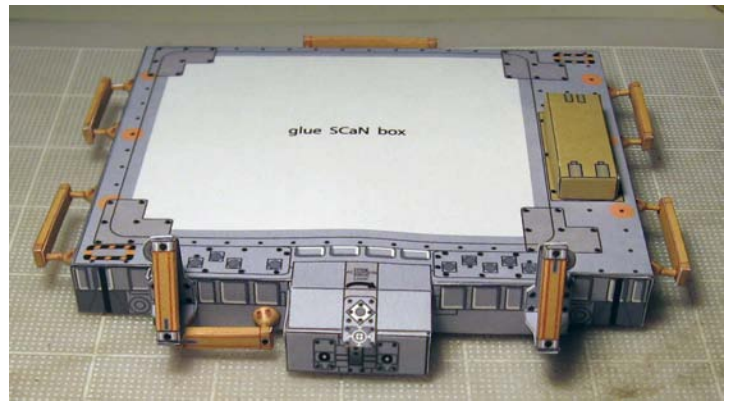
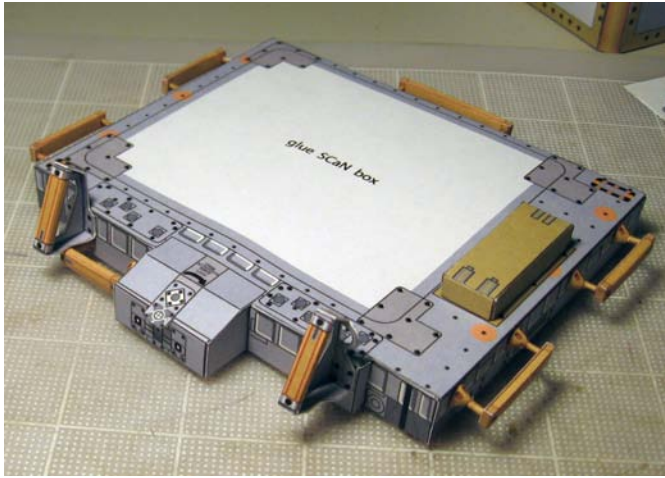
Adding the handrails and front handles to the FRAM box



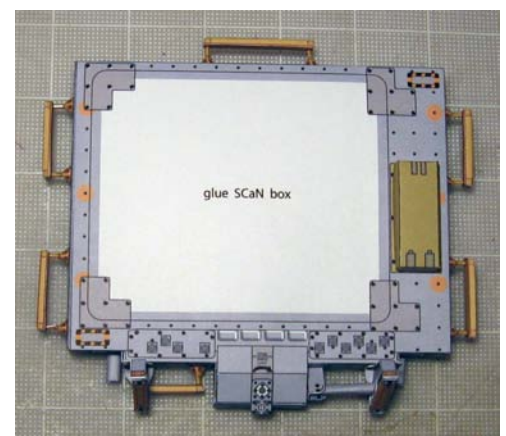
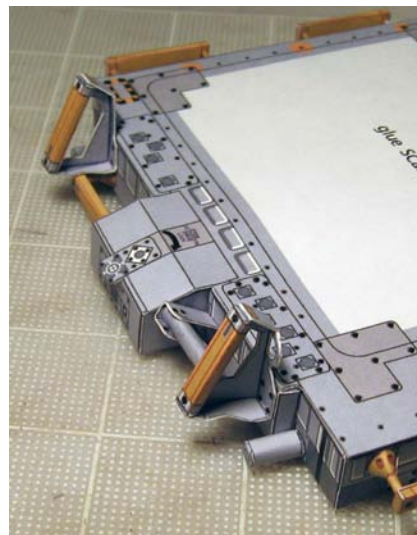
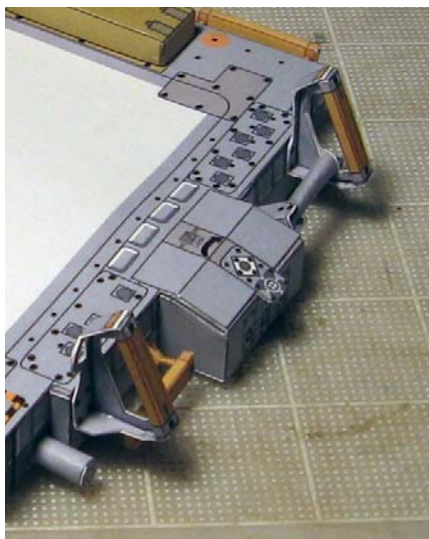
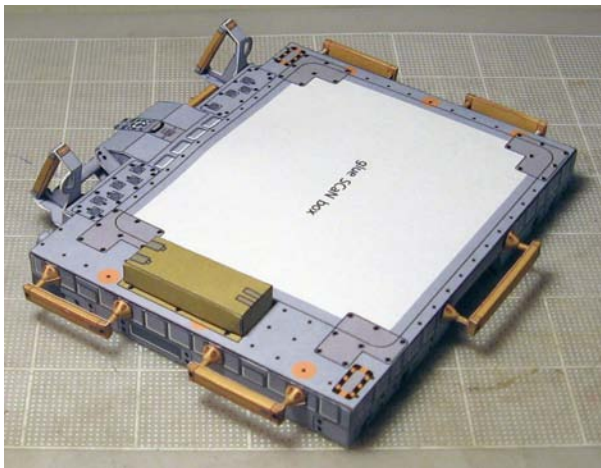








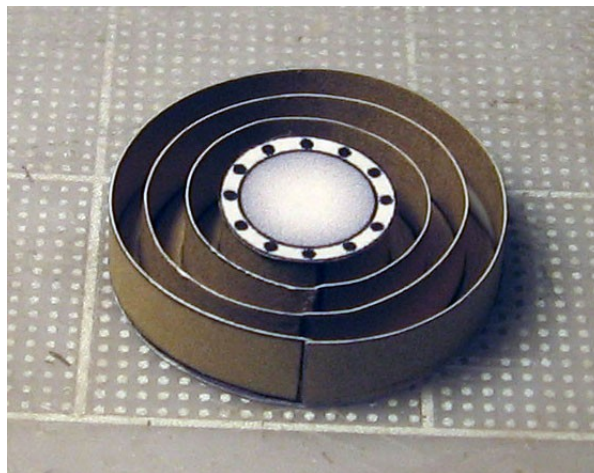
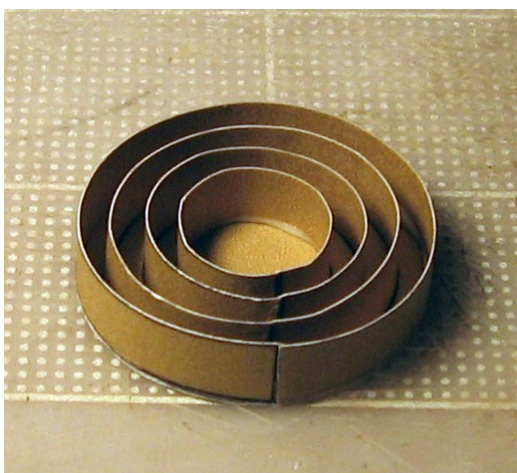
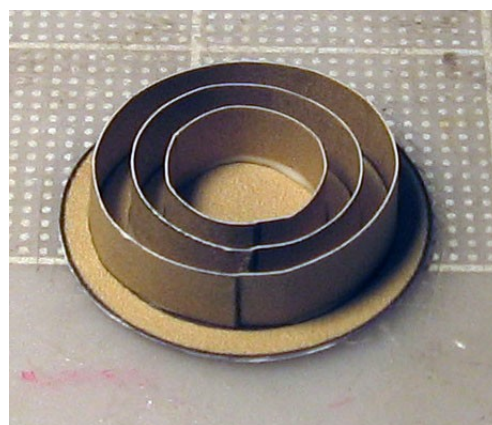
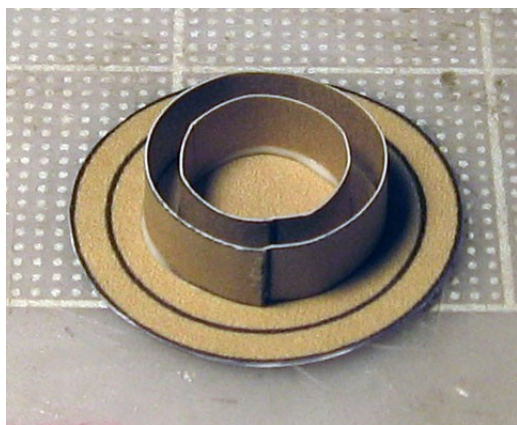
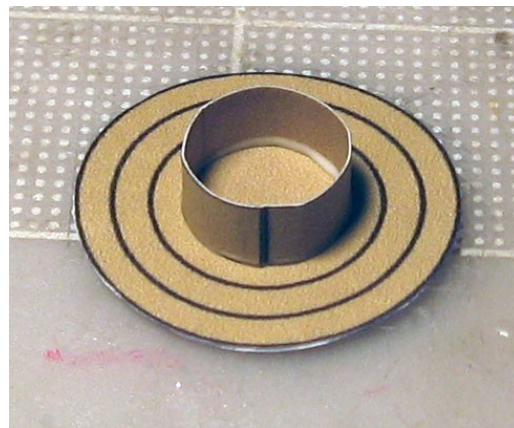




FRAM box is complete!



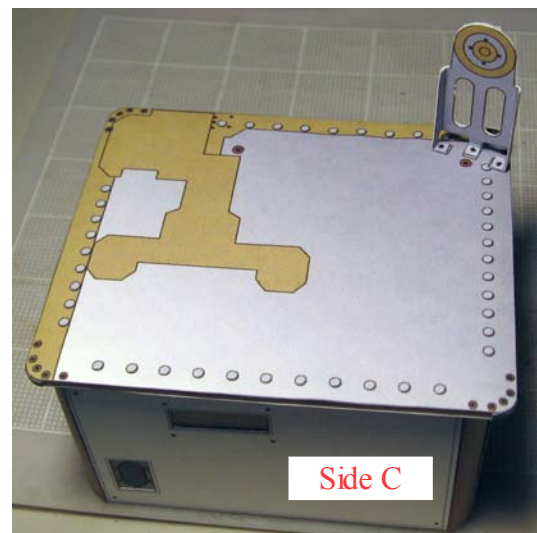
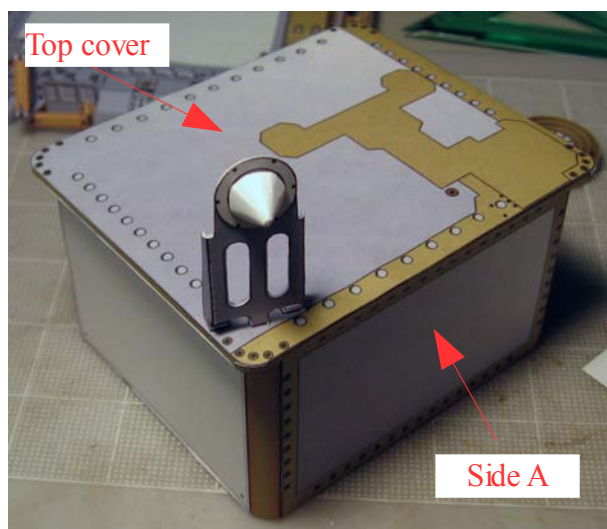
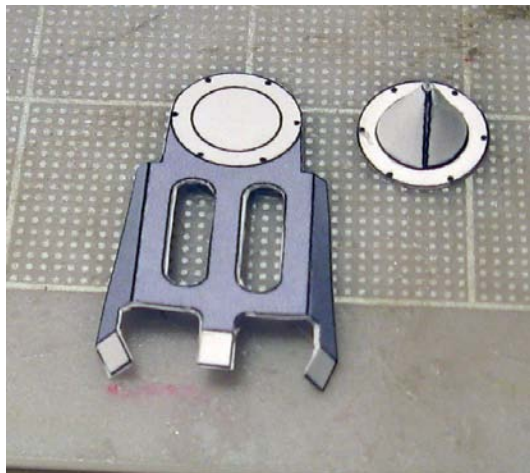
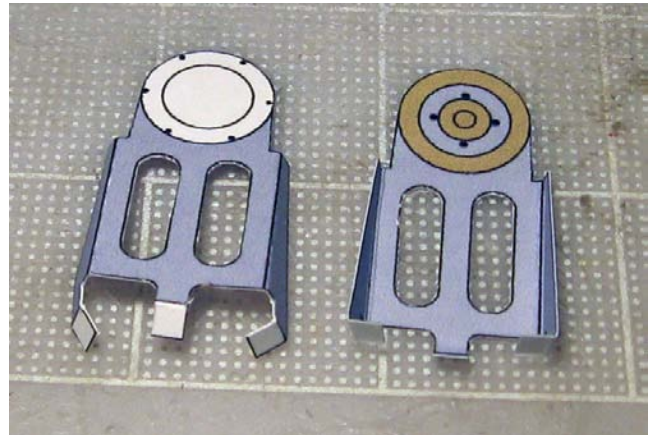
## Building the L-Band GPS antenna



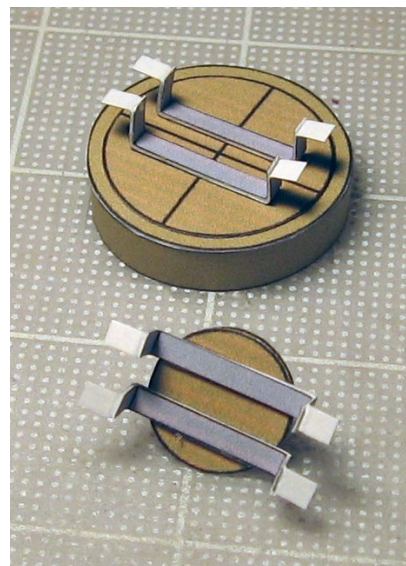
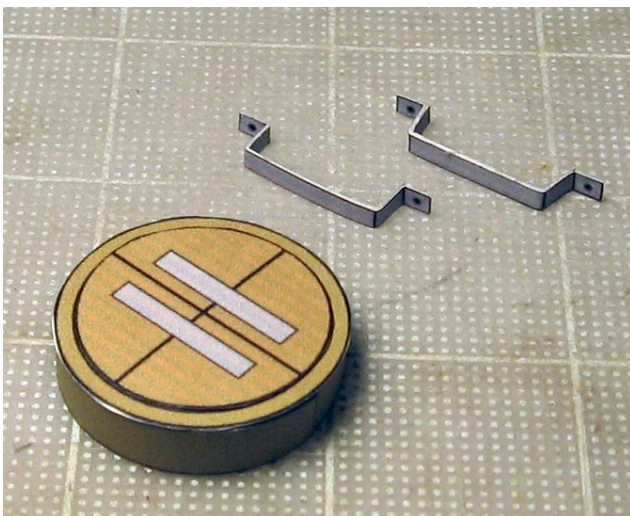
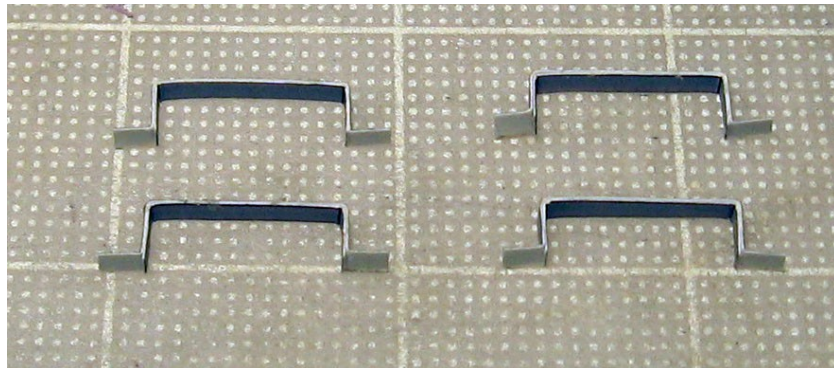
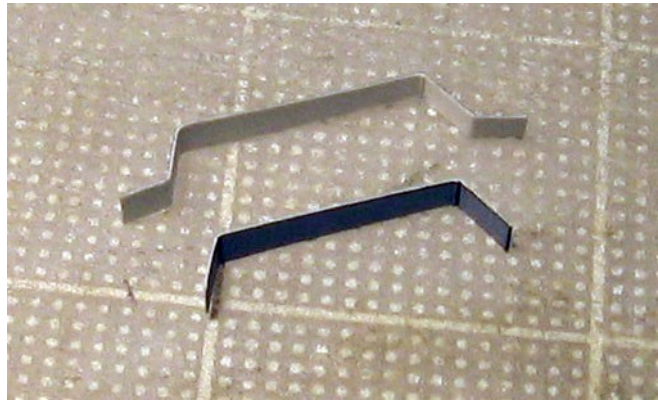
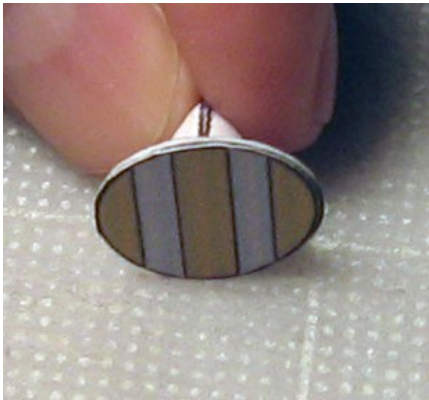
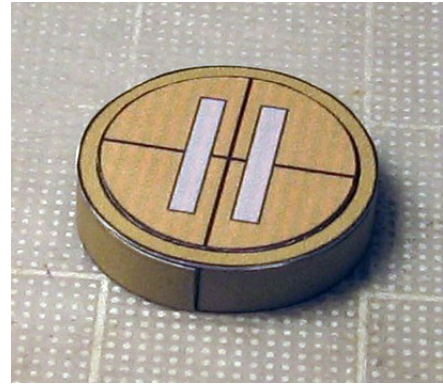
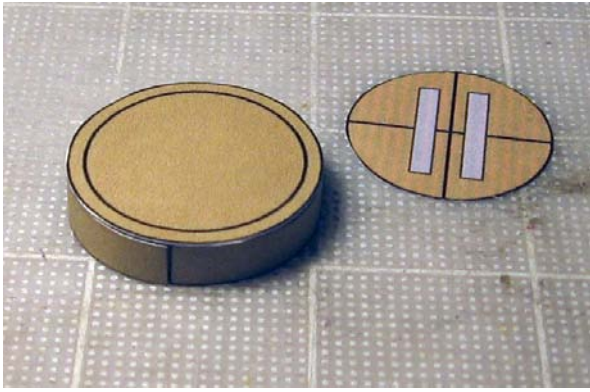
## Building the S-Band LGA antennas



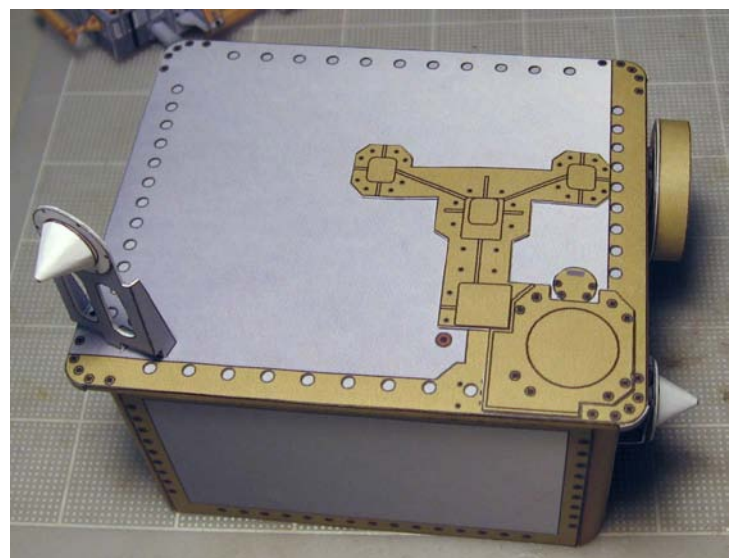
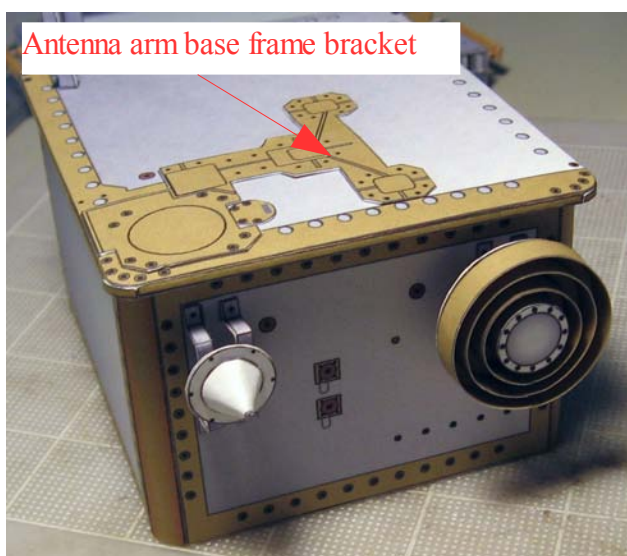
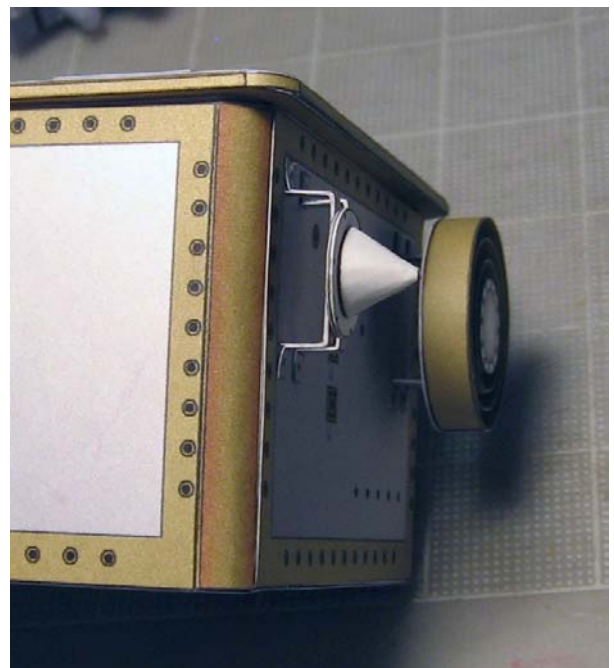
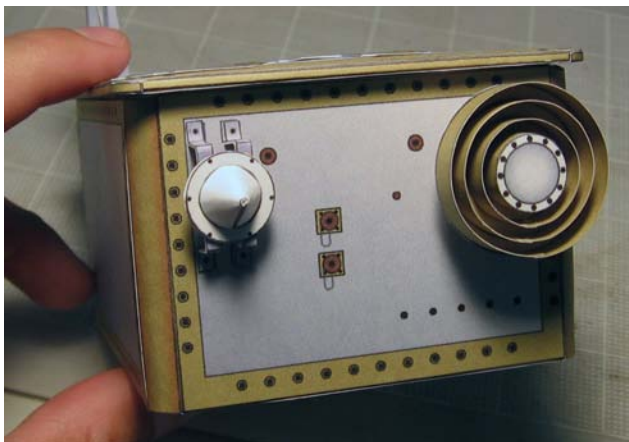
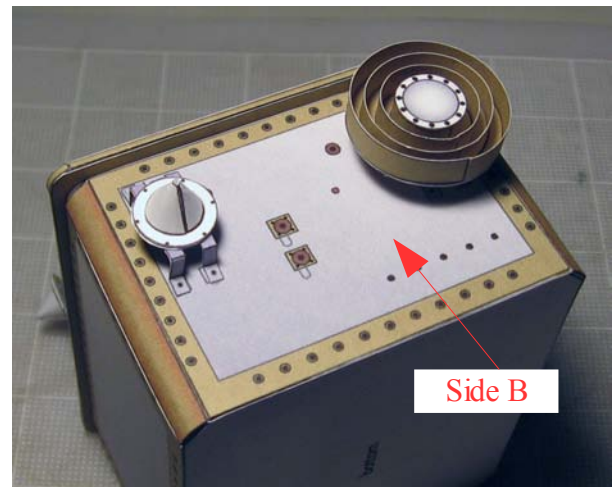
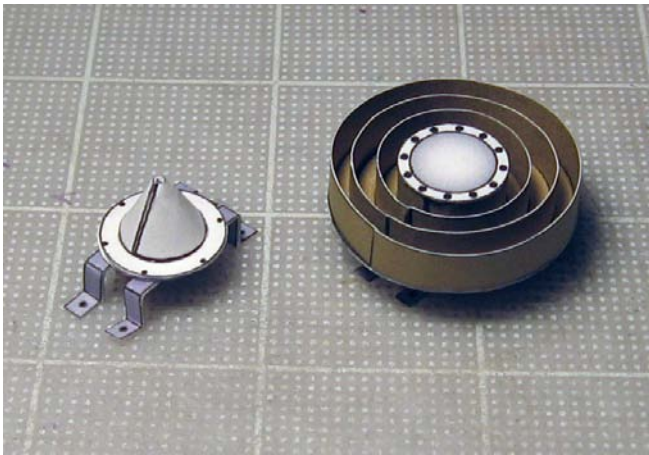
Make 2 of these cones





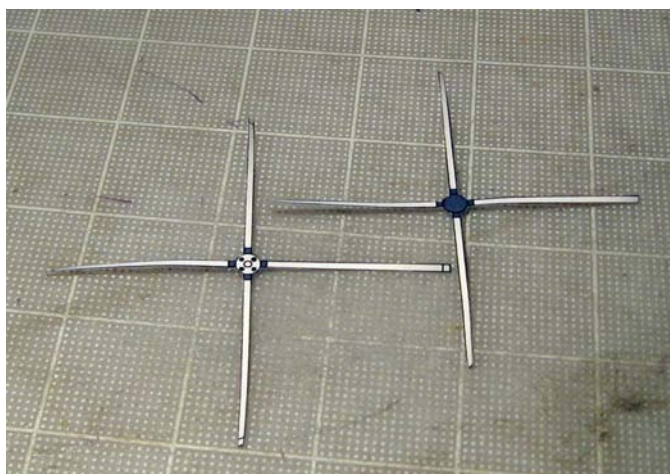
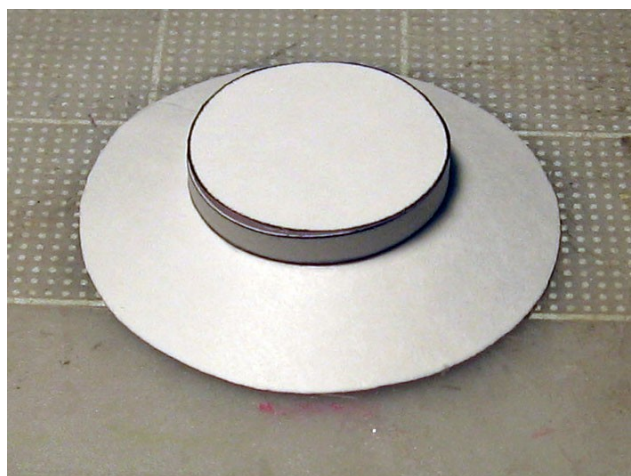
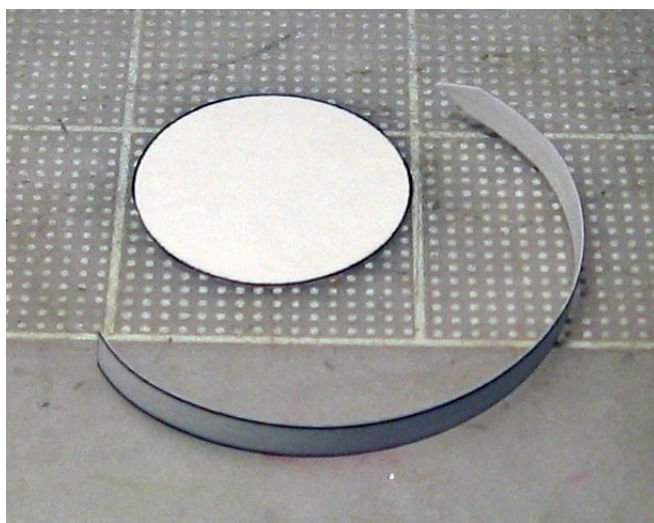
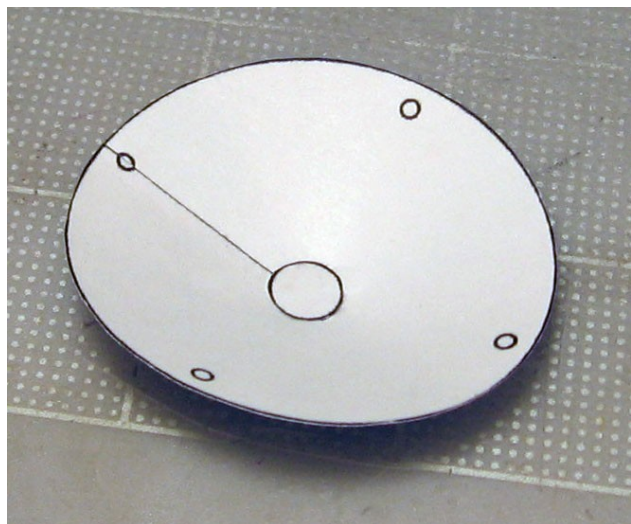




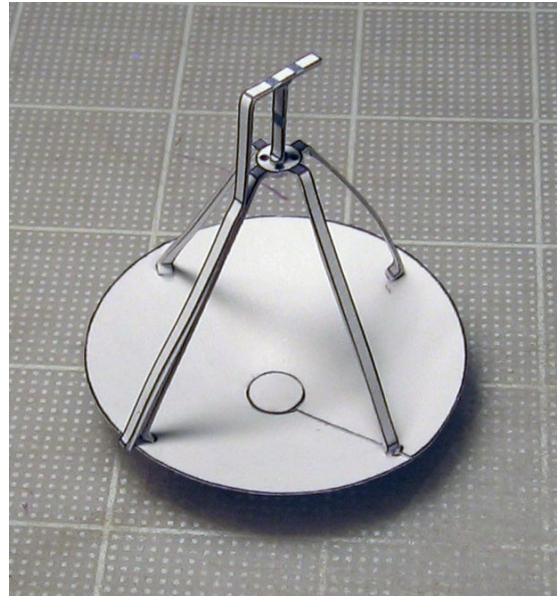
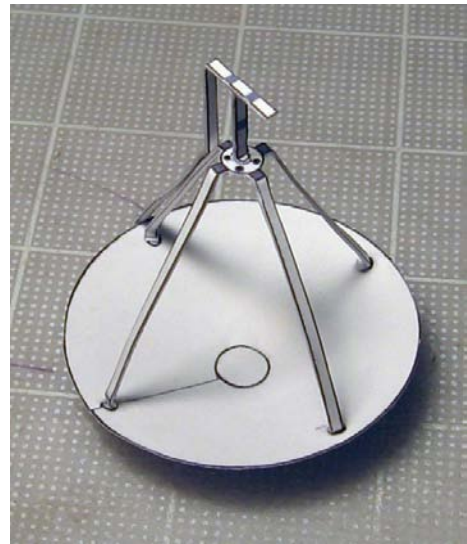




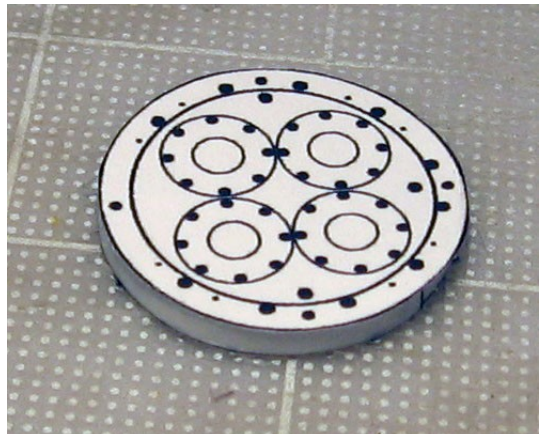
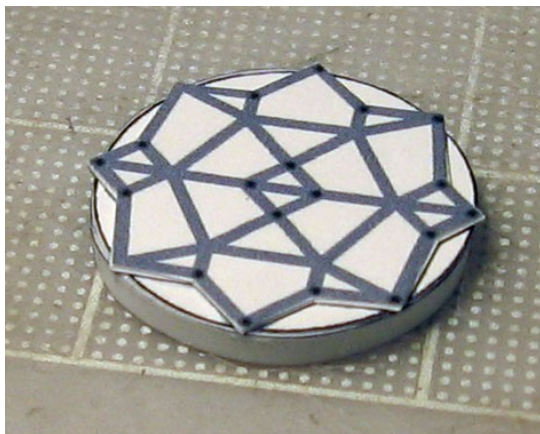
## Building the Ka-Band HGA antenna



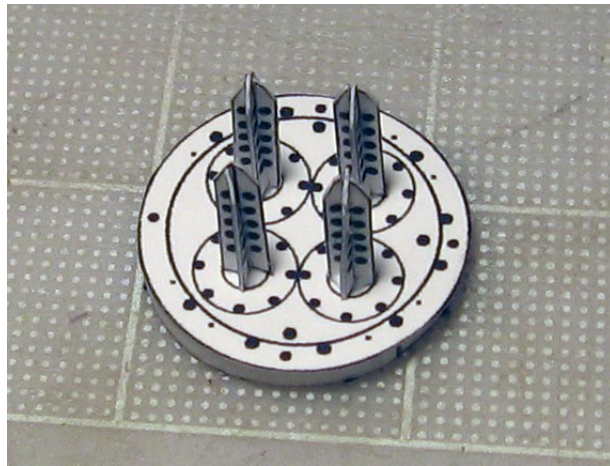
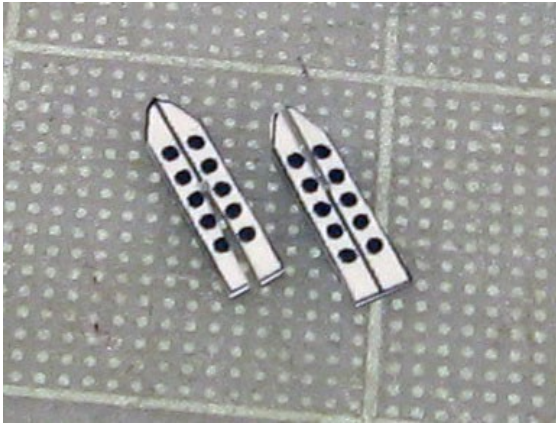




Building the S-Band MGA antenna



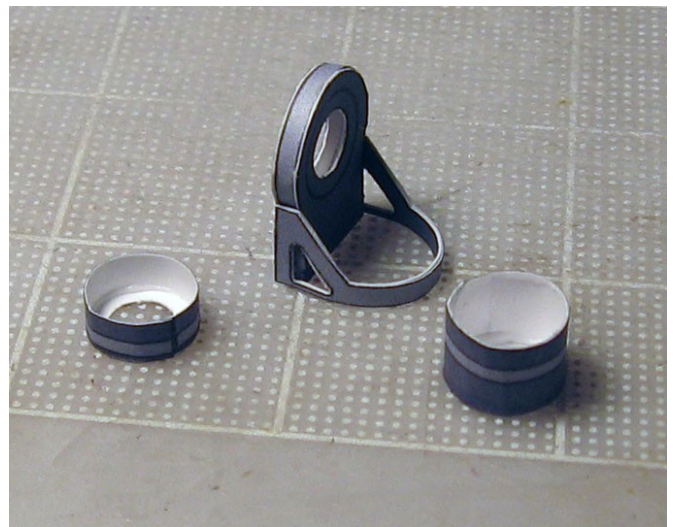
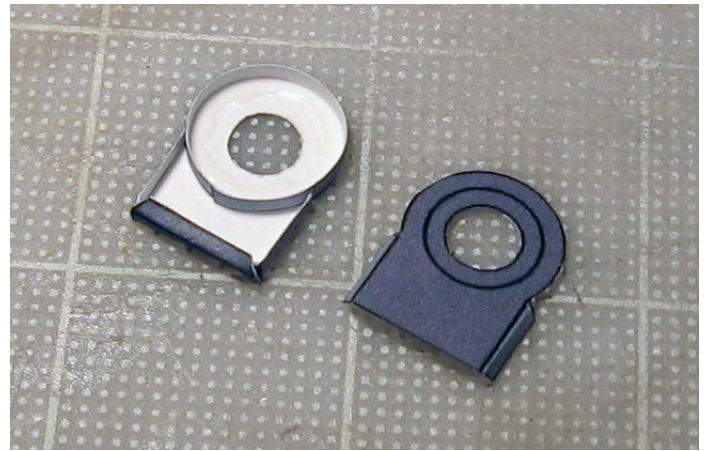
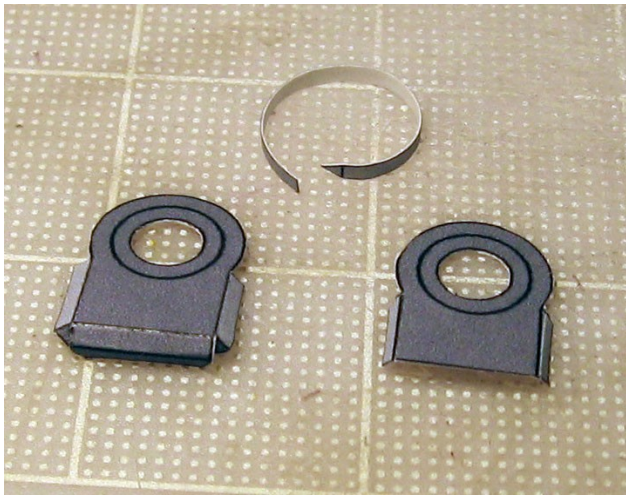




Building the Integrated Gimbal Assembly









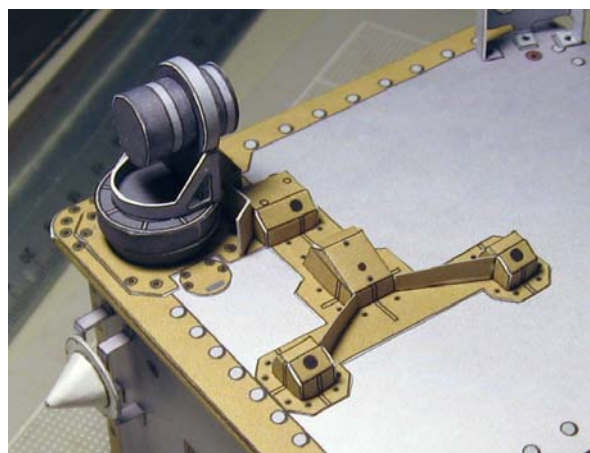
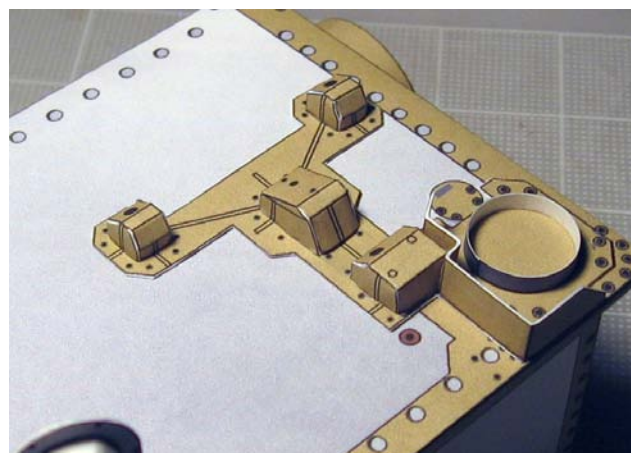
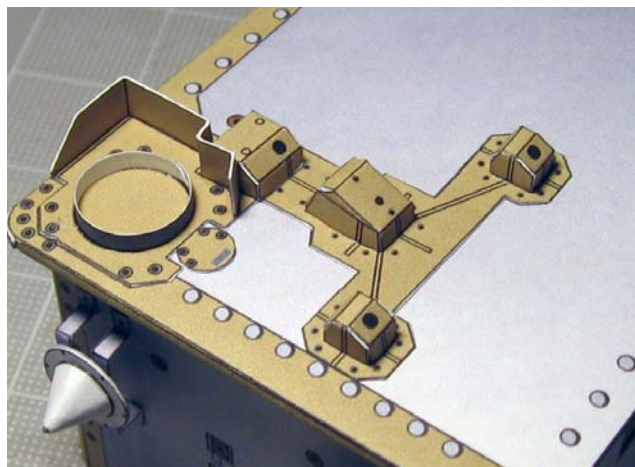
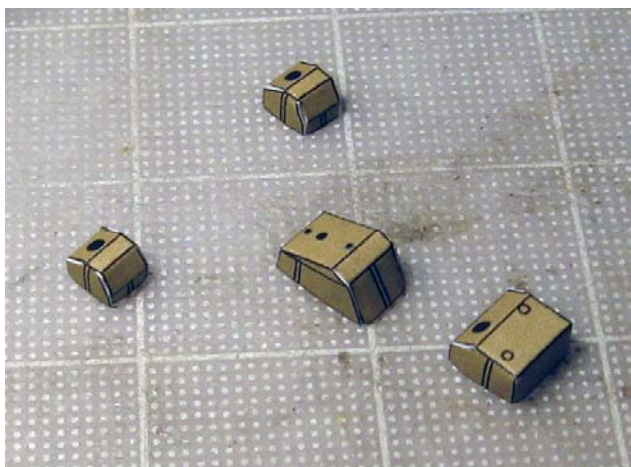


Important:

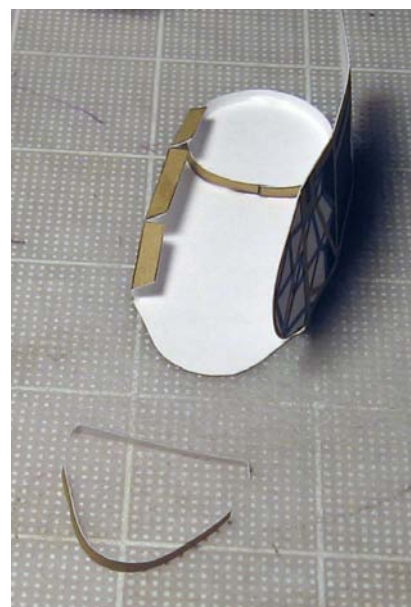
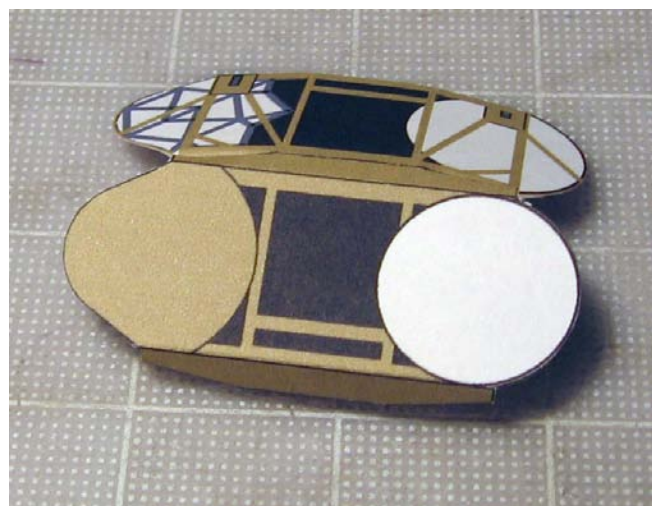
Do not glue the Integrated Gimbal Assembly on top of the SCAN box. It has been designed to rotate.



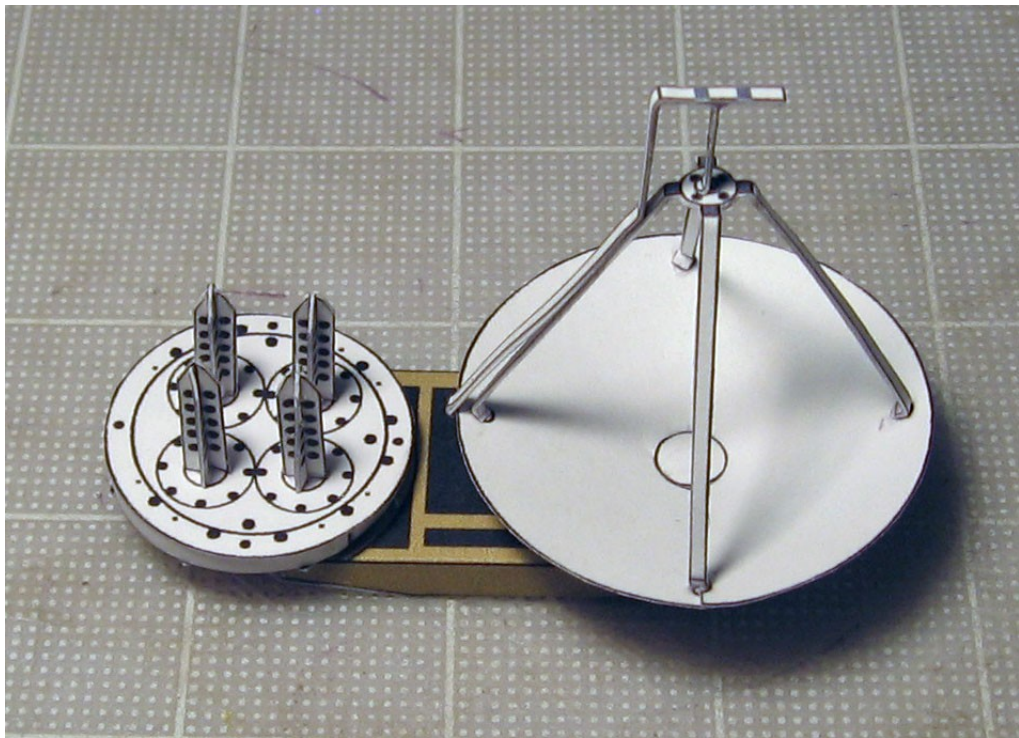
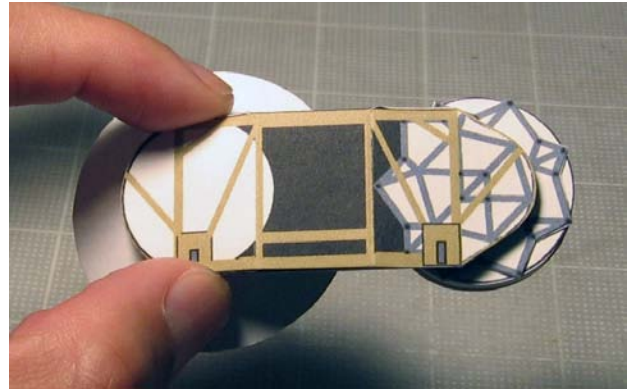
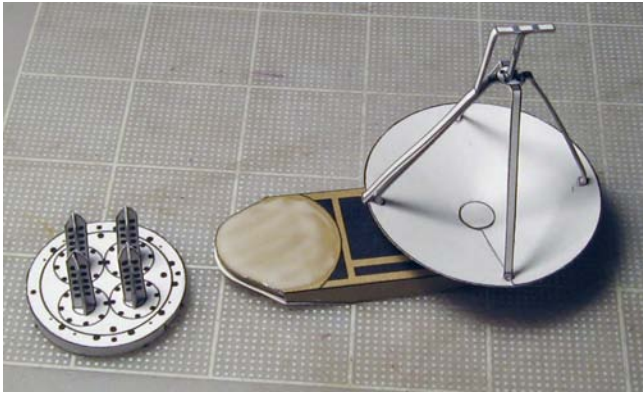
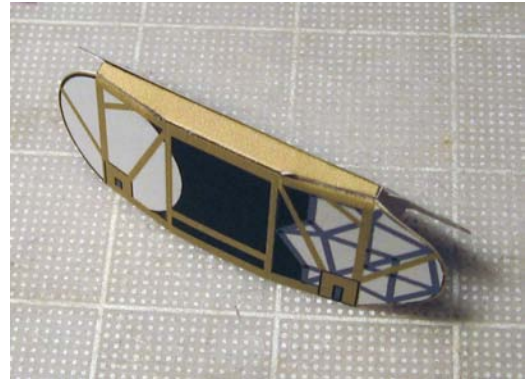
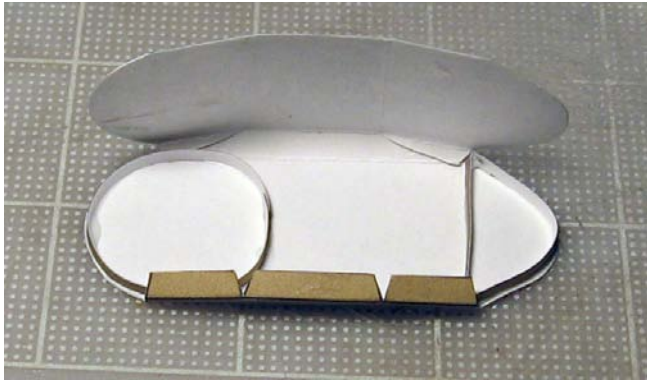
## Adding details to the Base Frame Bracket



## Building the plate that holds the antennas

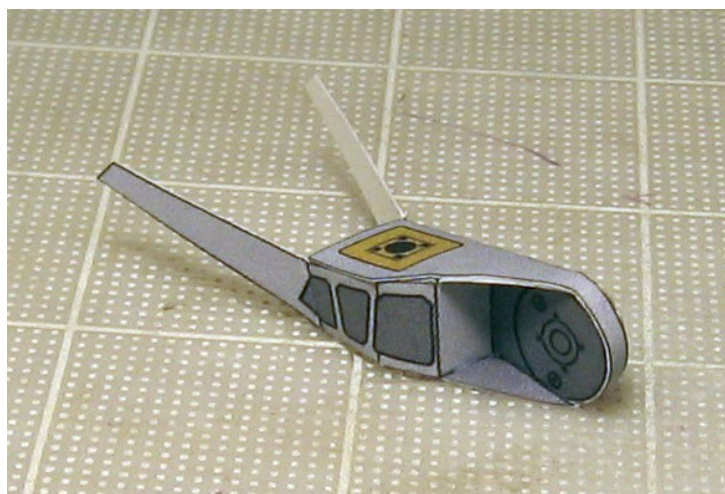
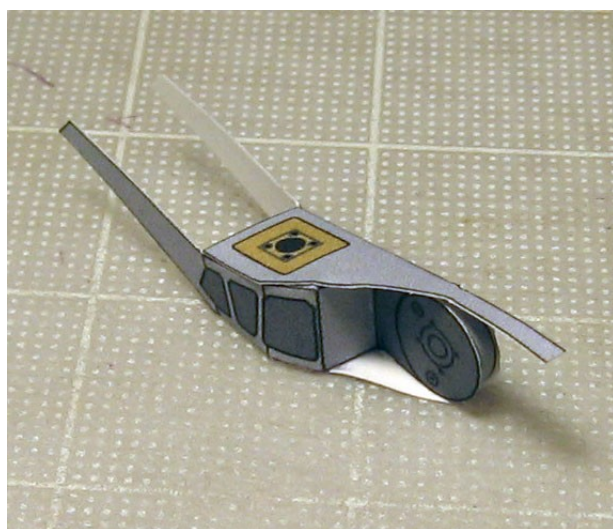
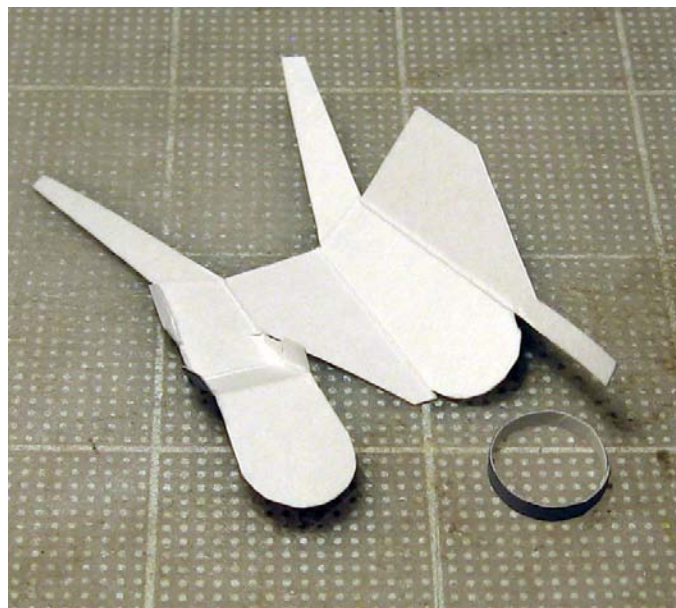




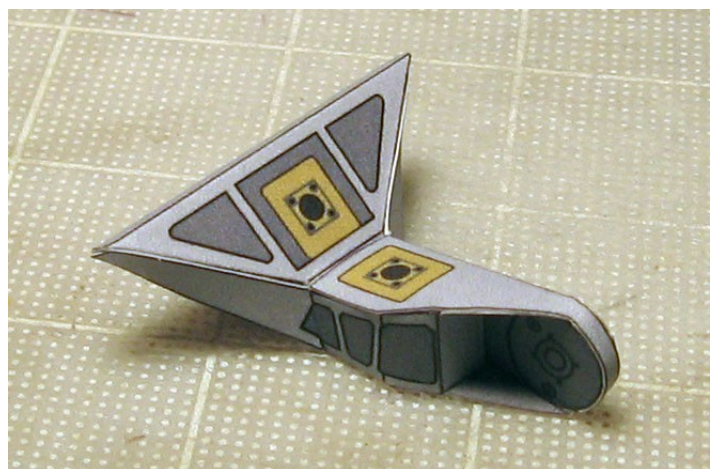
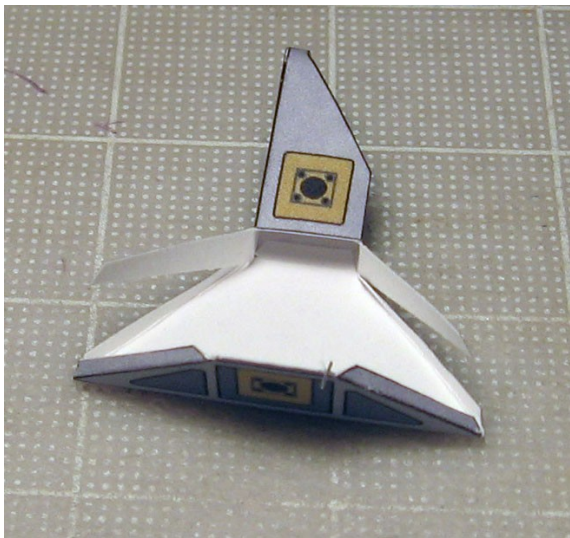
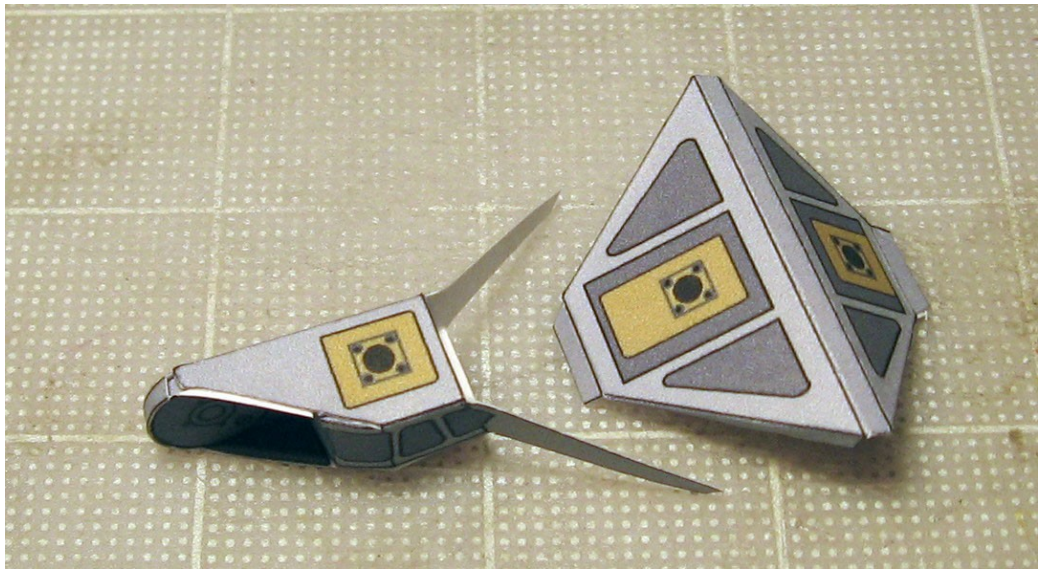




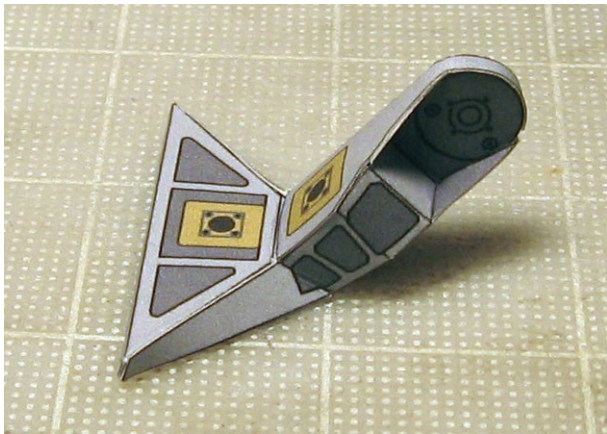
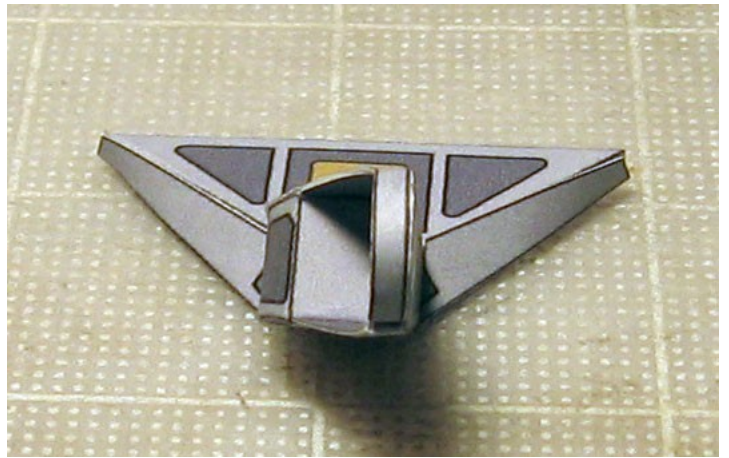
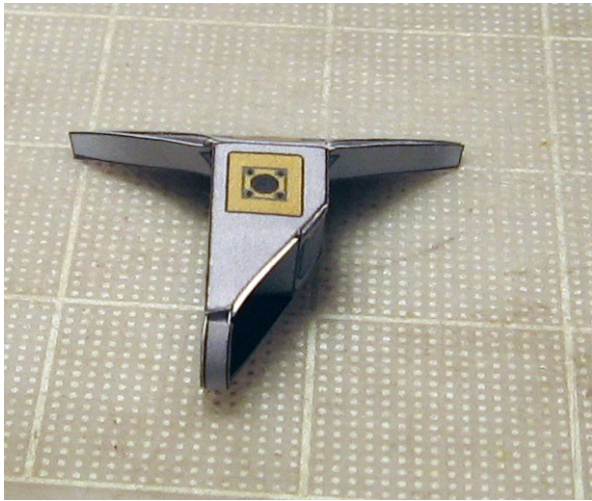
## Building the Antenna Arm



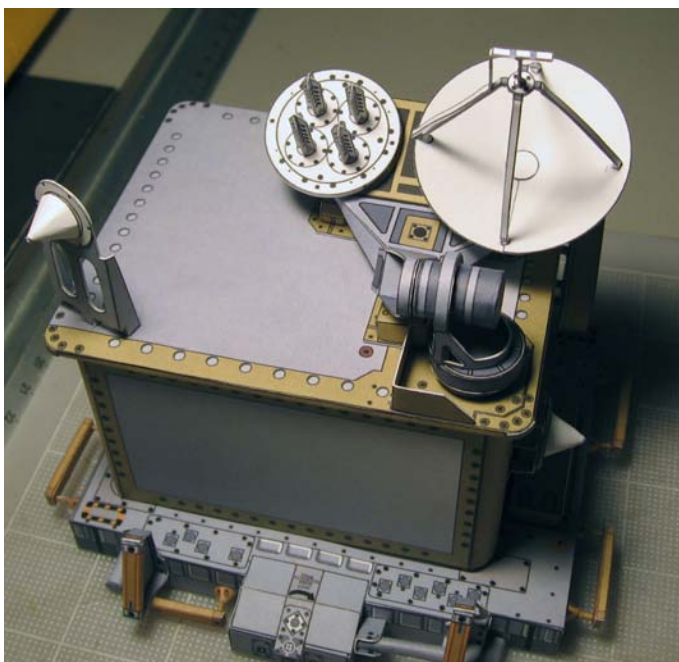
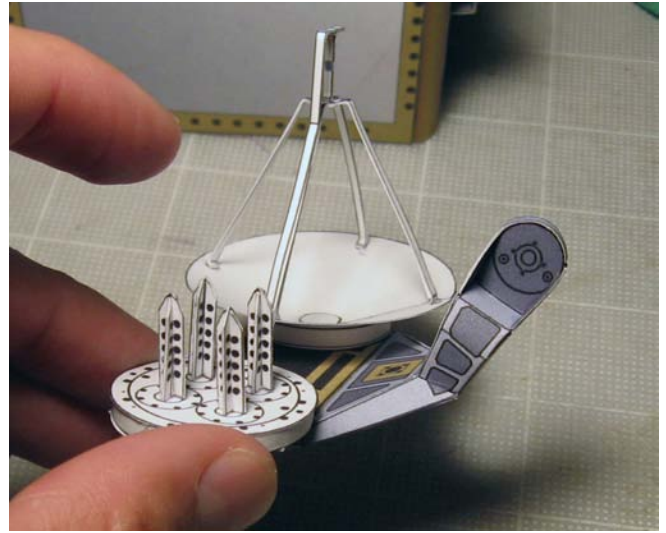
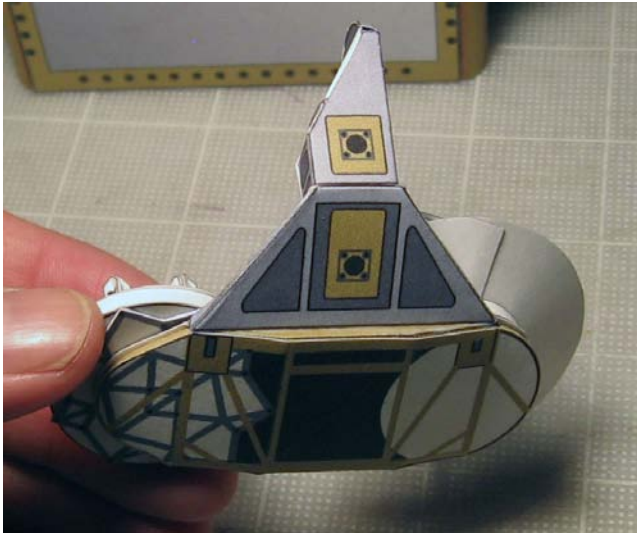










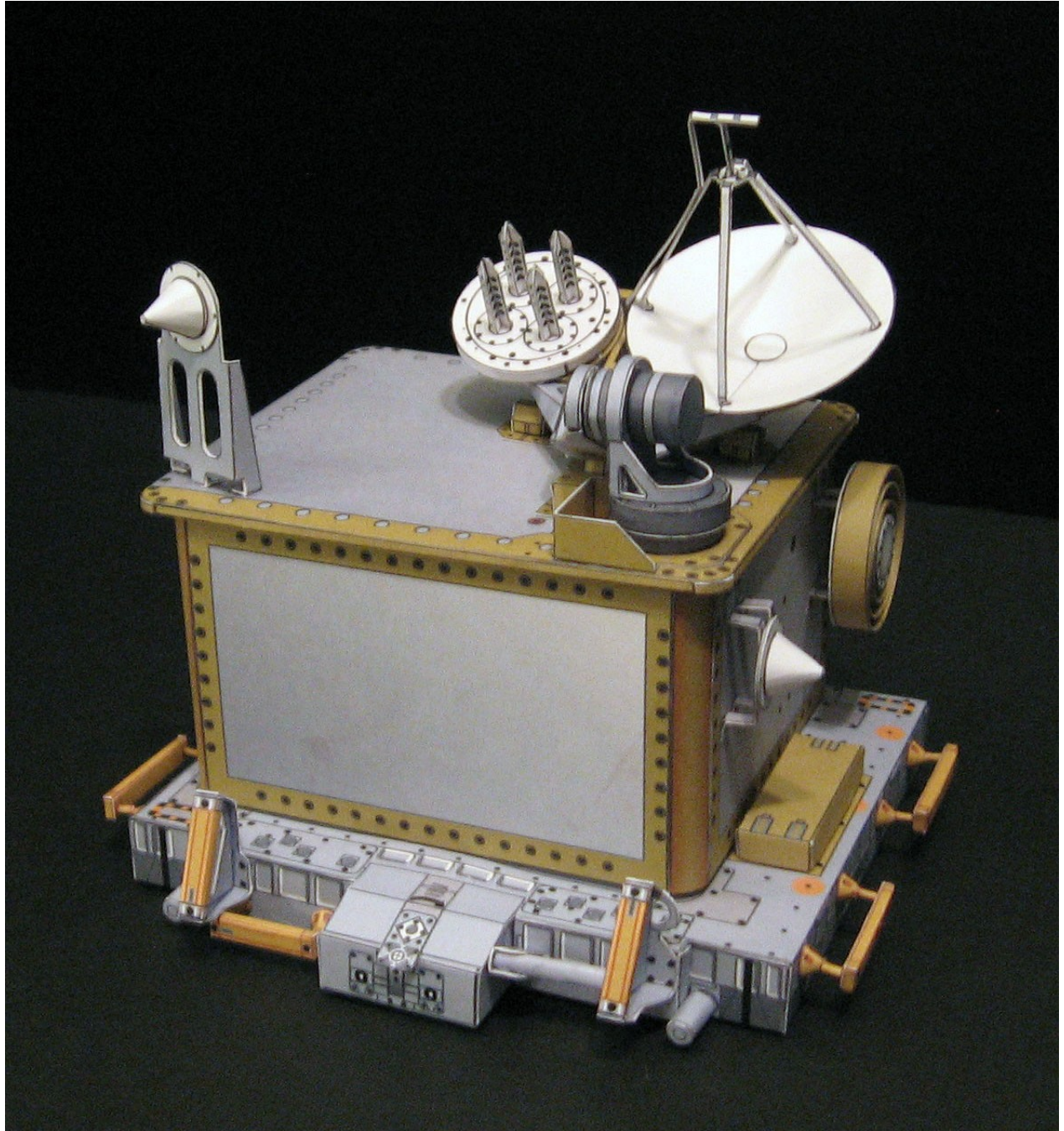


Important:

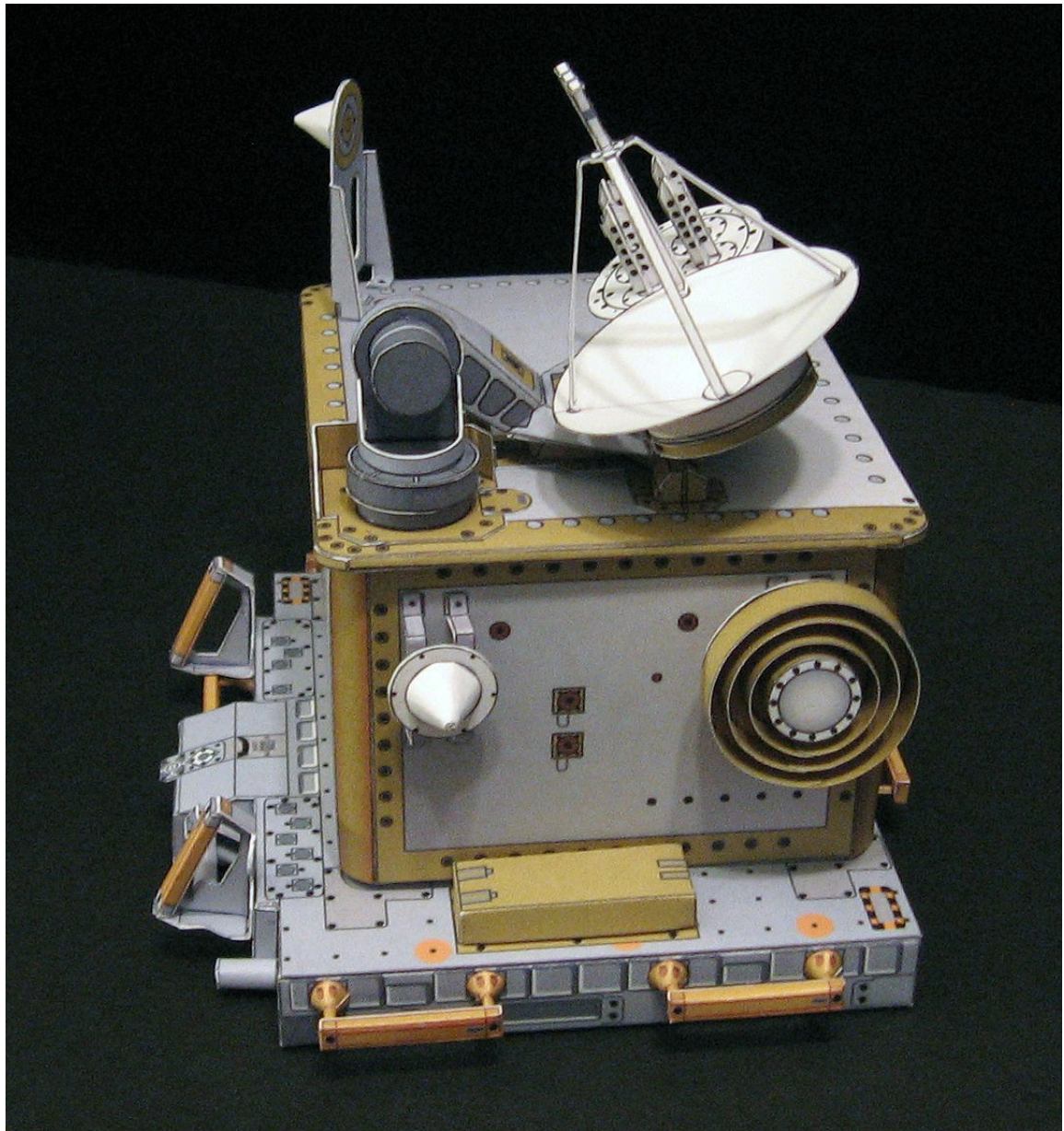
Do not glue the Antenna Arm to the Integrated Gimbal Assembly. The arm has been designed to elevate the antennas.



## Reference Photos



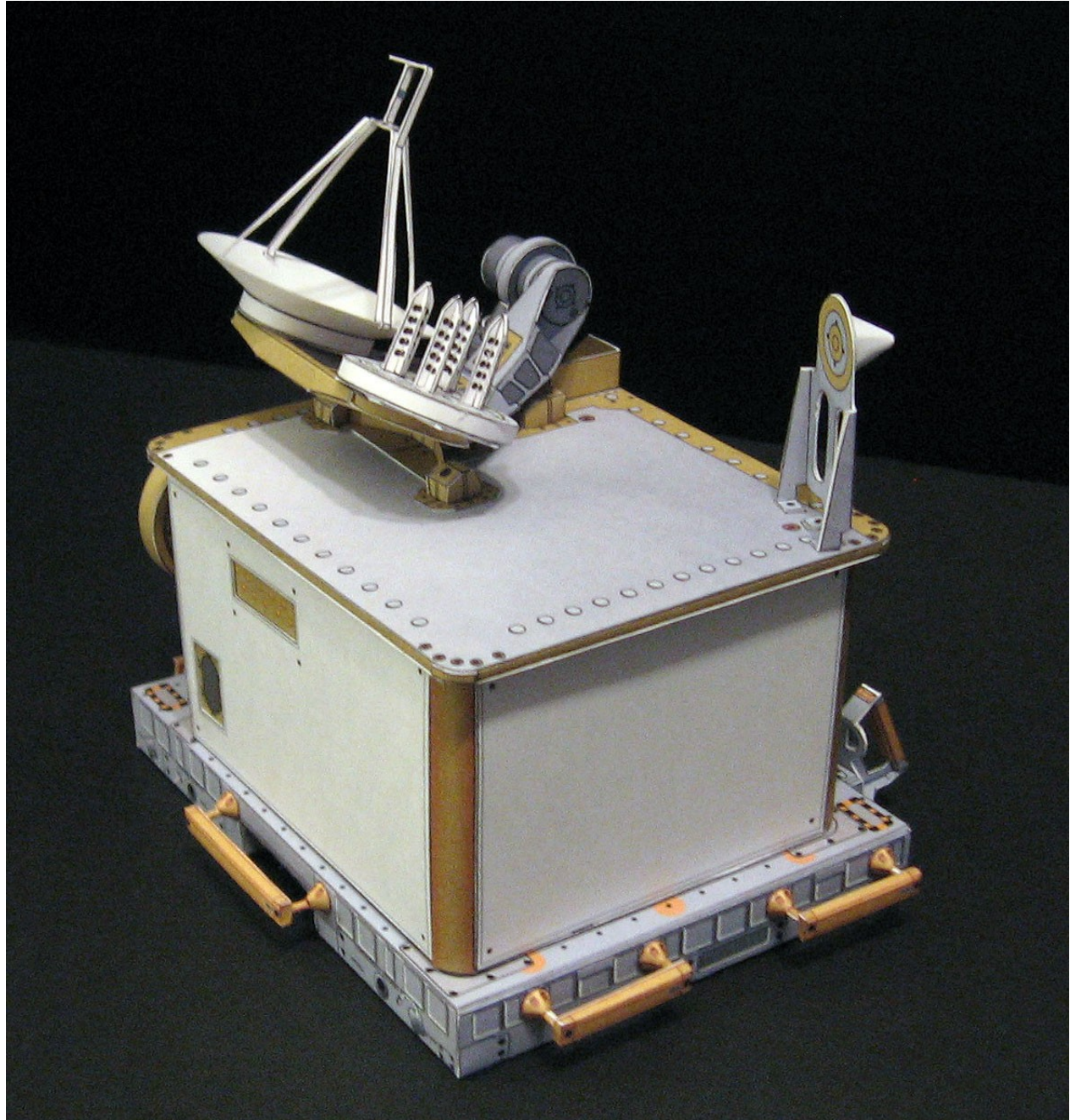




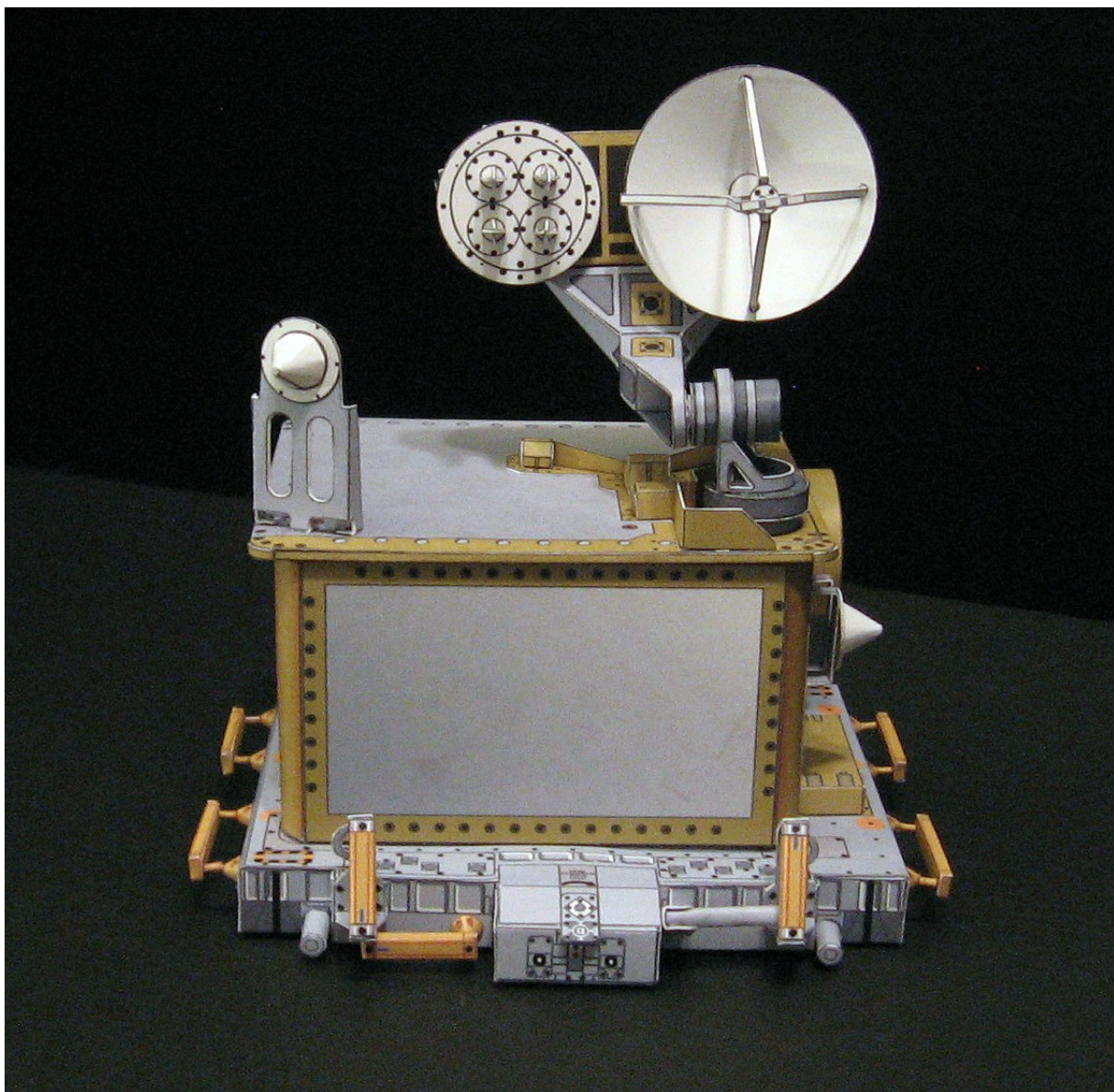




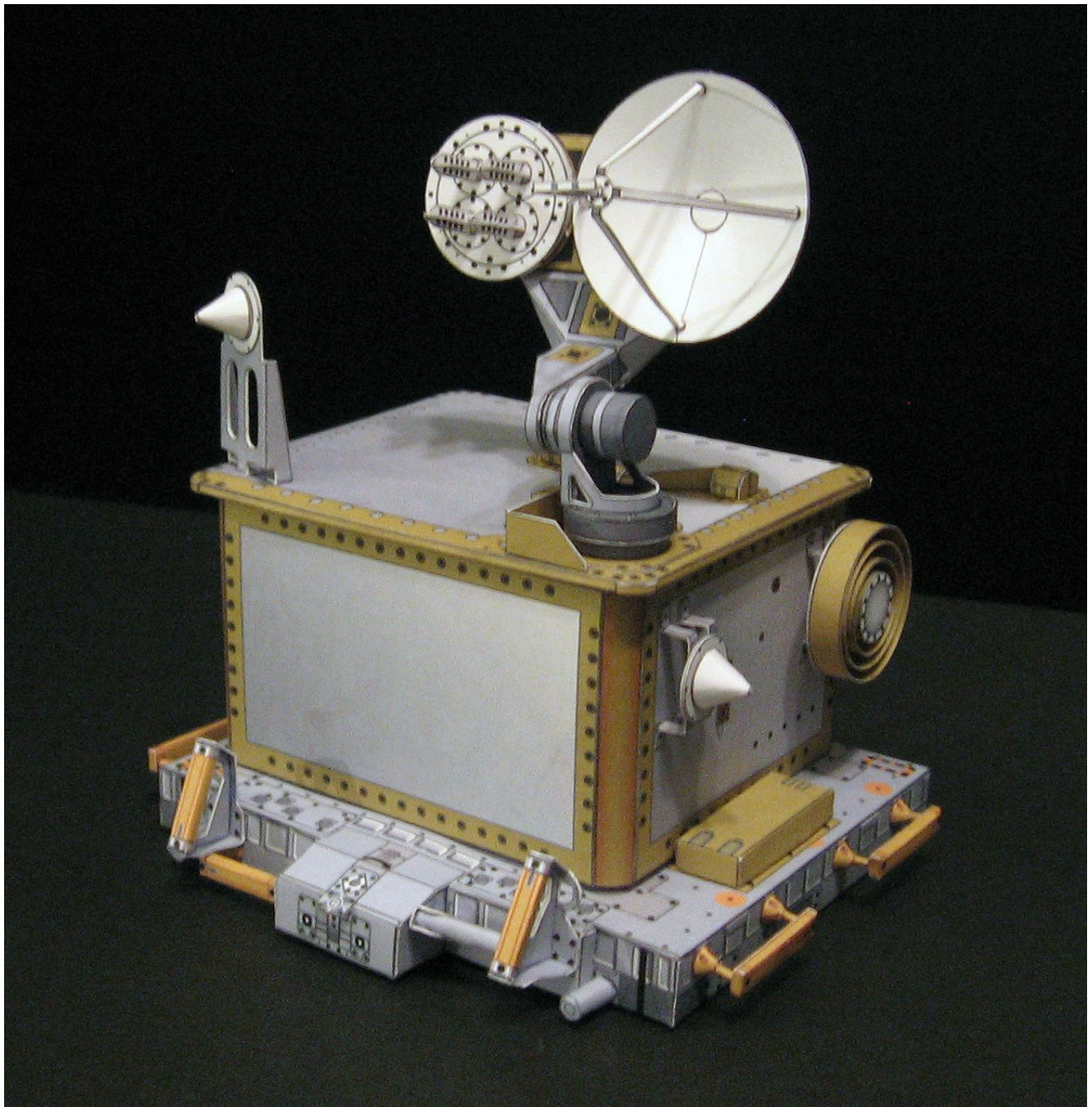




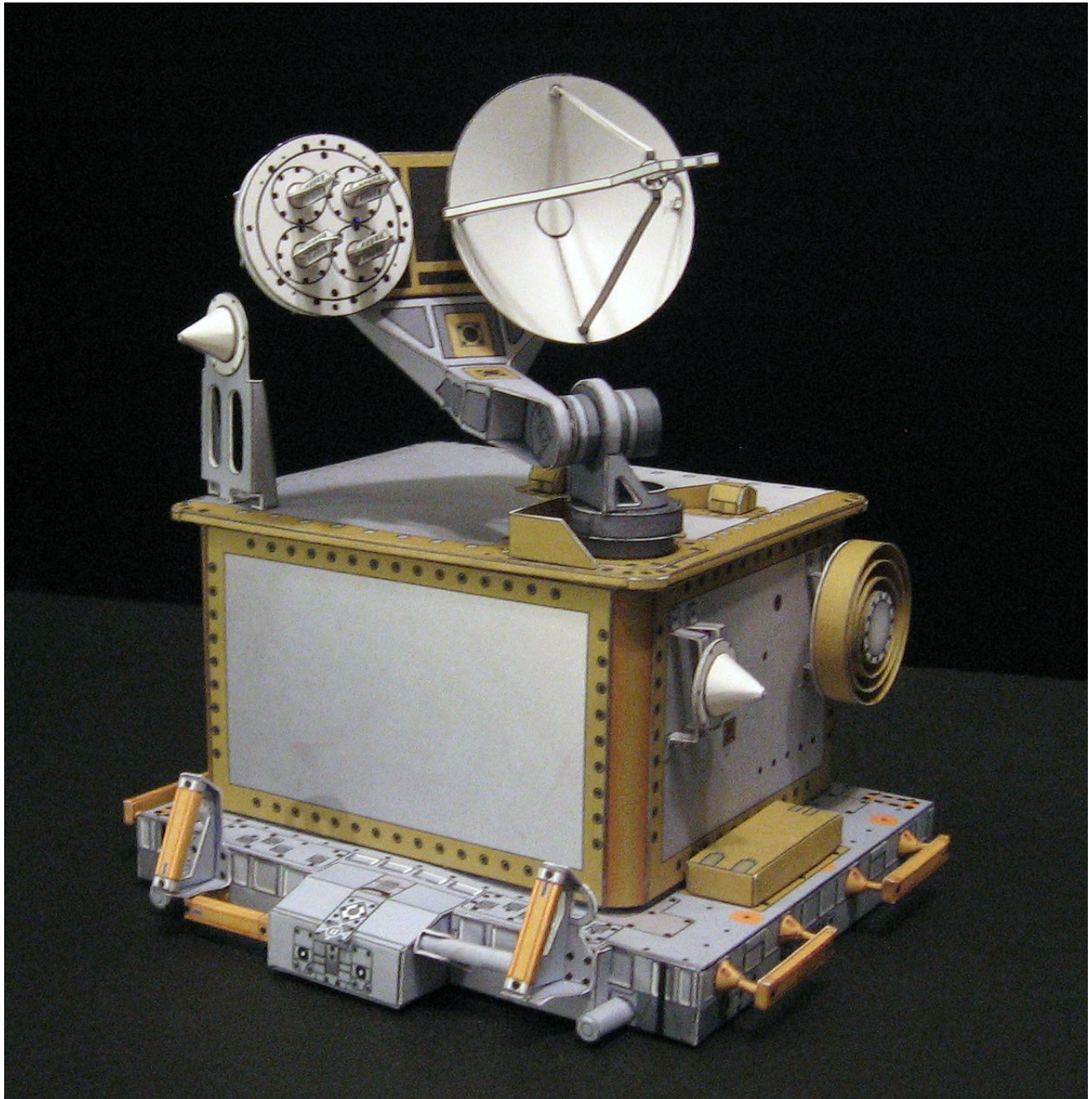








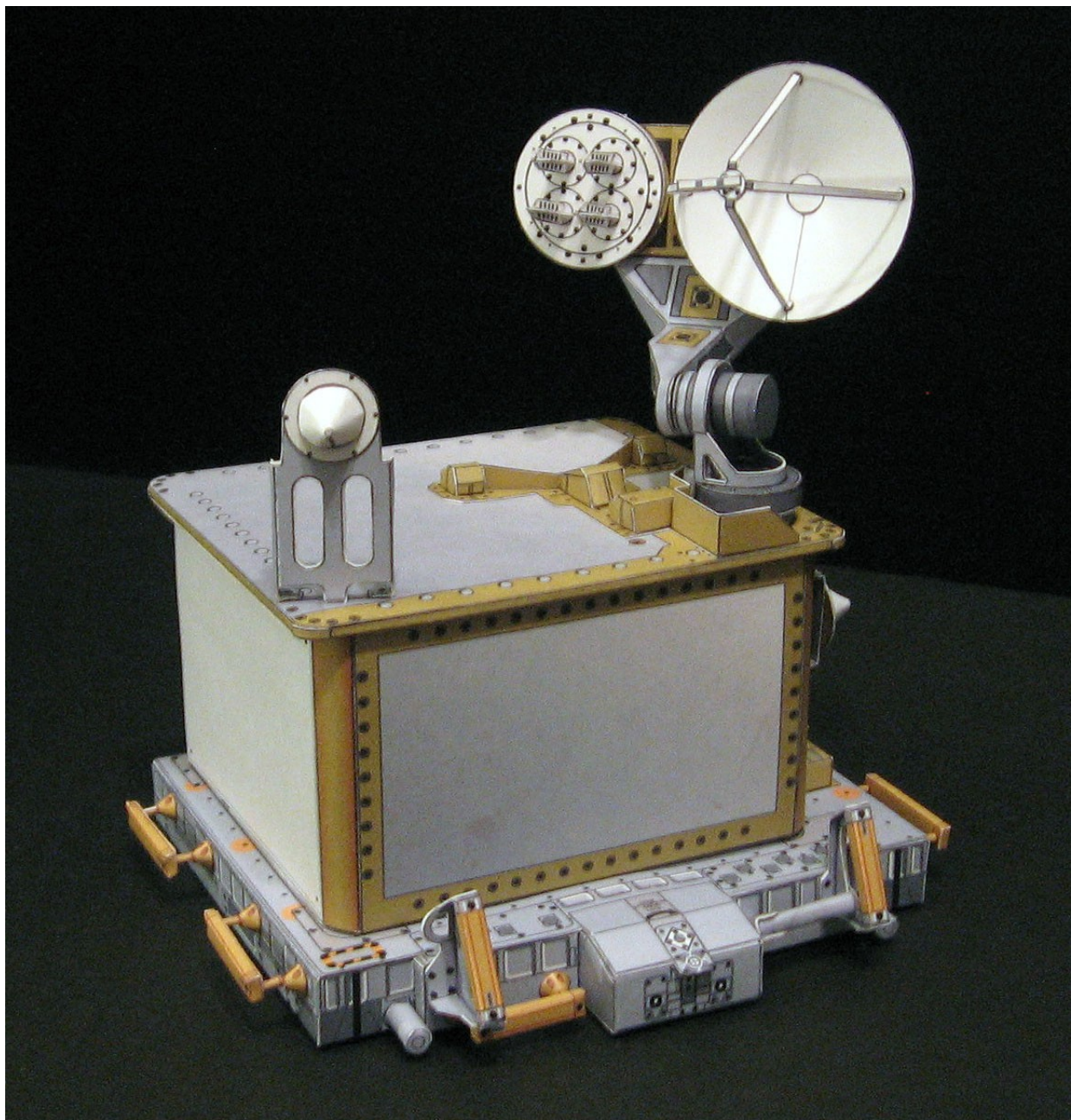




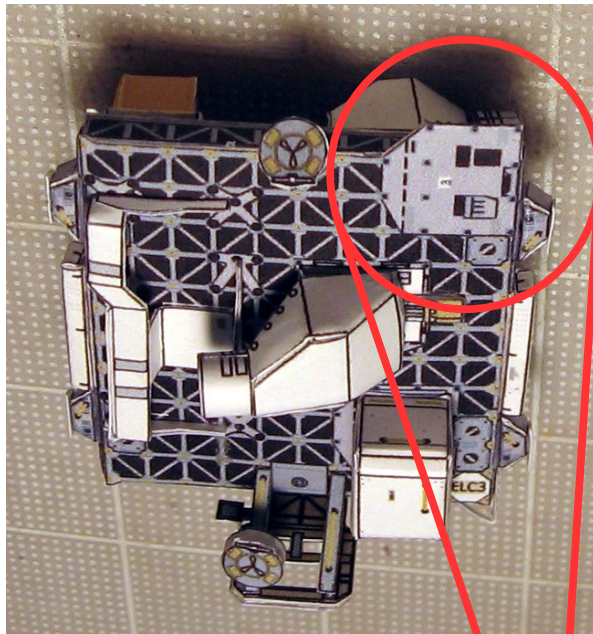




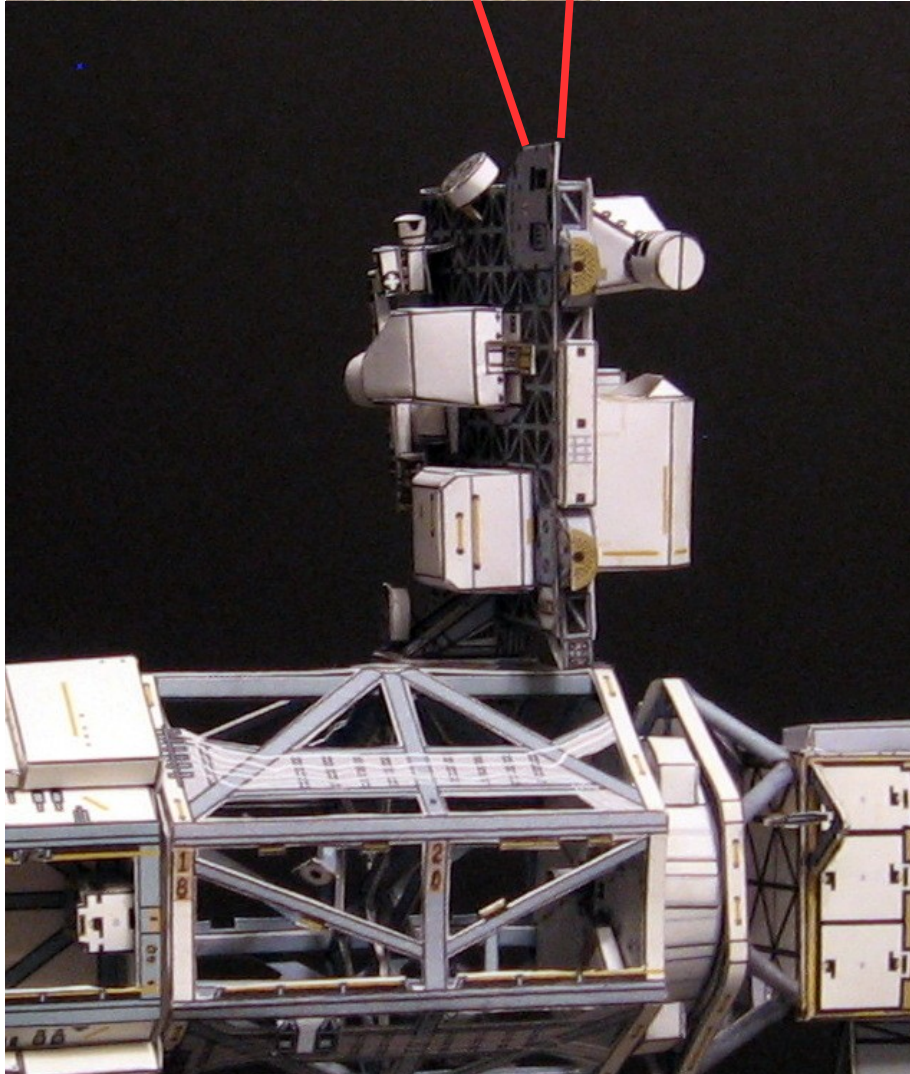








**Location of the  
SCAN testbed on  
the ELC-3 pallet  
on the ISS.**



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