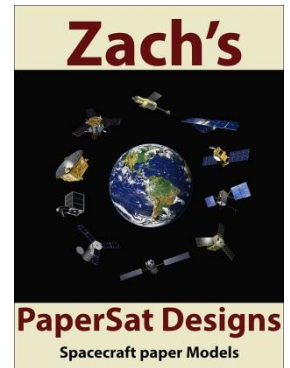


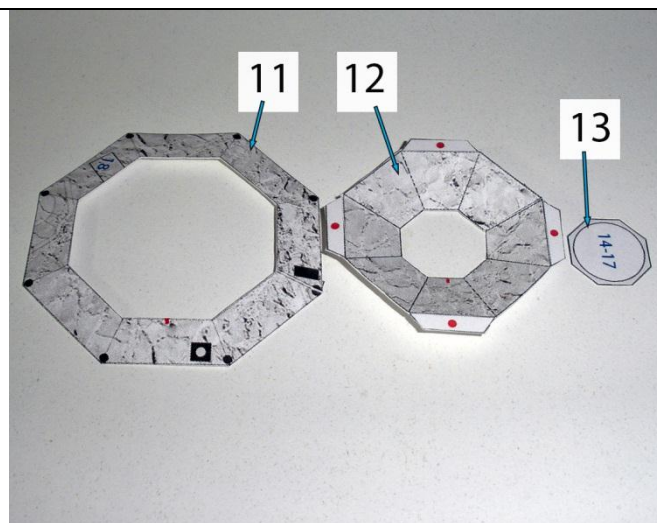
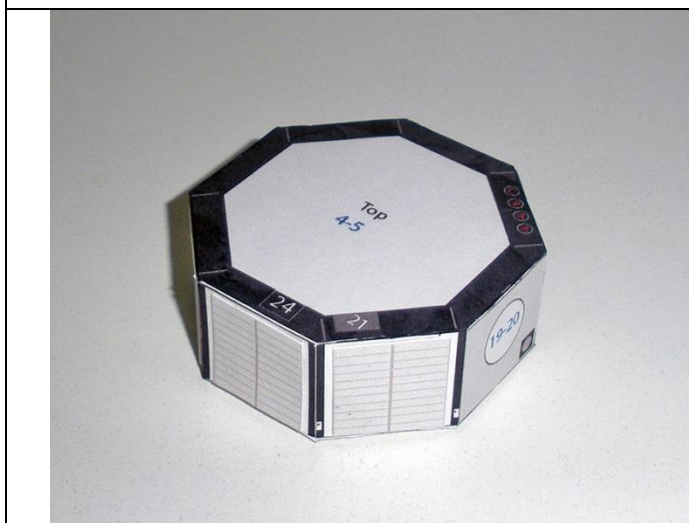
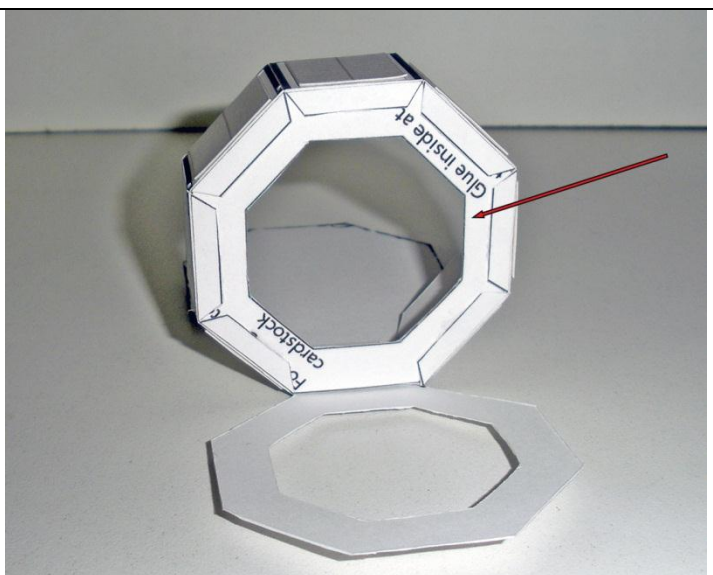
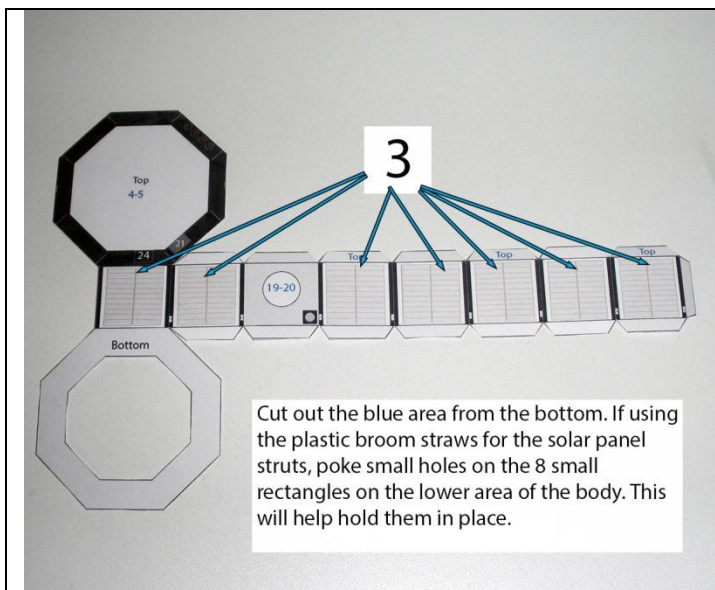
Mariner 4

1/20 Scale Paper Model Instructions

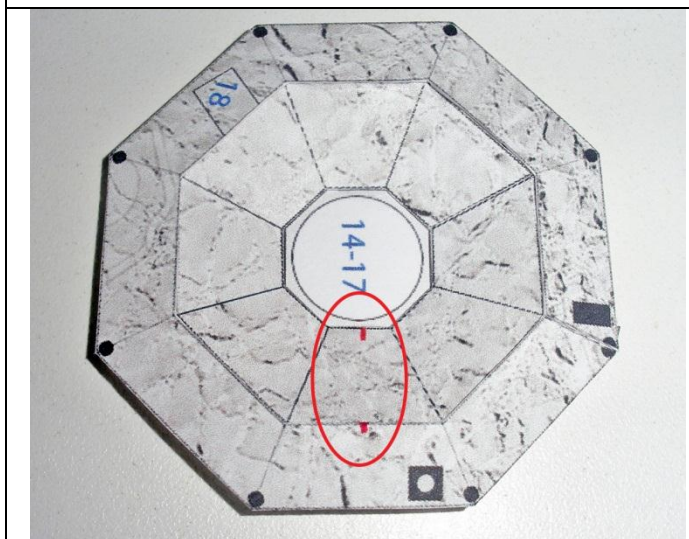


NOTE: The artist impressions of the spacecraft shows solar pressure vanes which extends from the ends of each solar panel. Of all the photos of the actual spacecraft found, none of them shows any solar pressure vanes, so the decision of made not to include them with the model for accuracy.

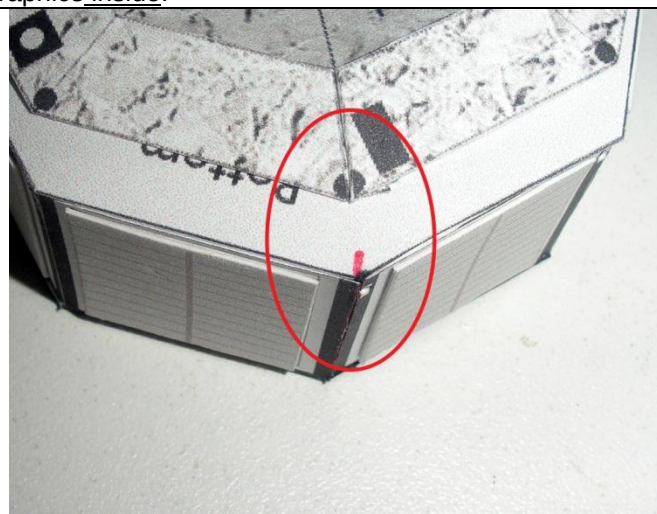
This model requires much assembly while matching special markers on one part with the markers on another. This is done for proper orientation or placement of each part for accuracy.



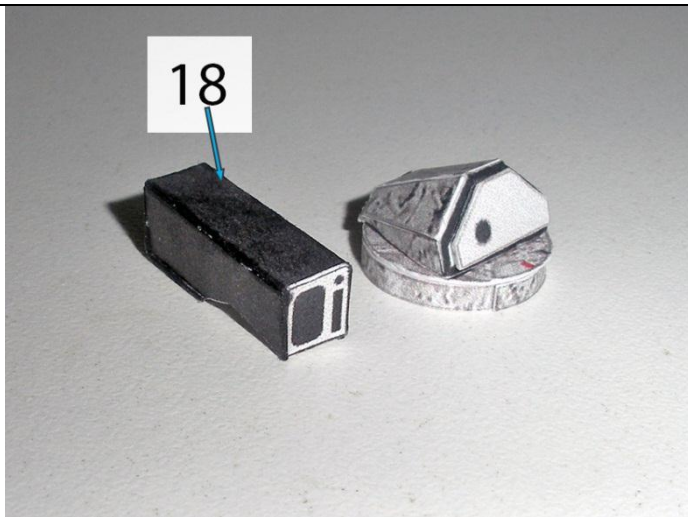
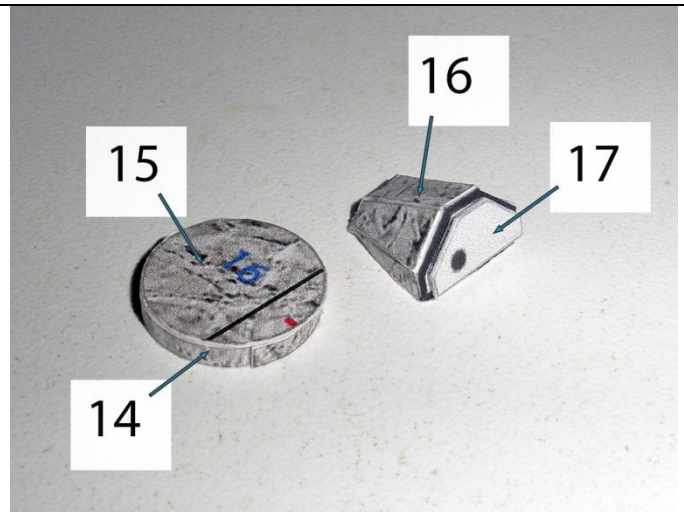
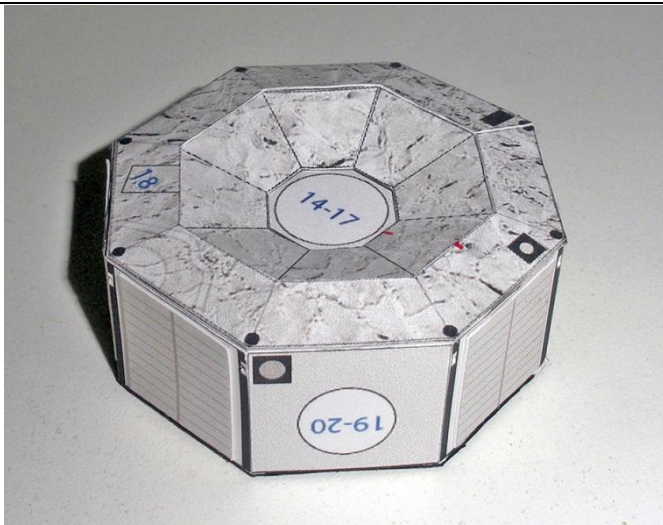
Fold-glue **11** with graphics outside, fold-glue **12** with graphics inside.



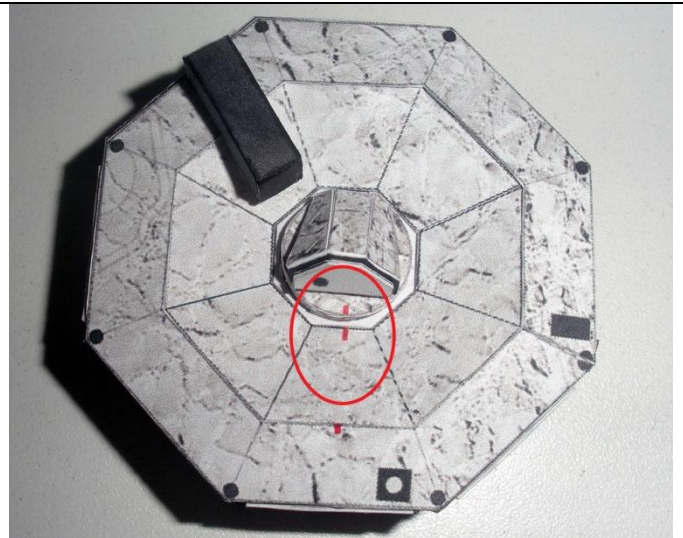
Glue **12** to back side of **11**, match the two red markers.
Glue **13** to back side of **12**.



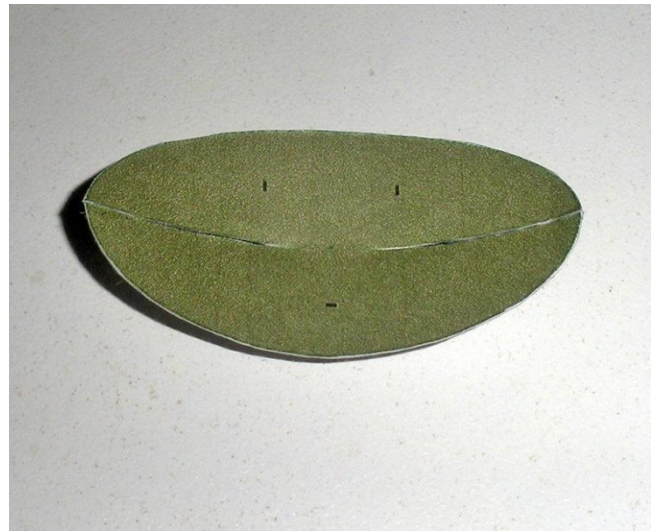
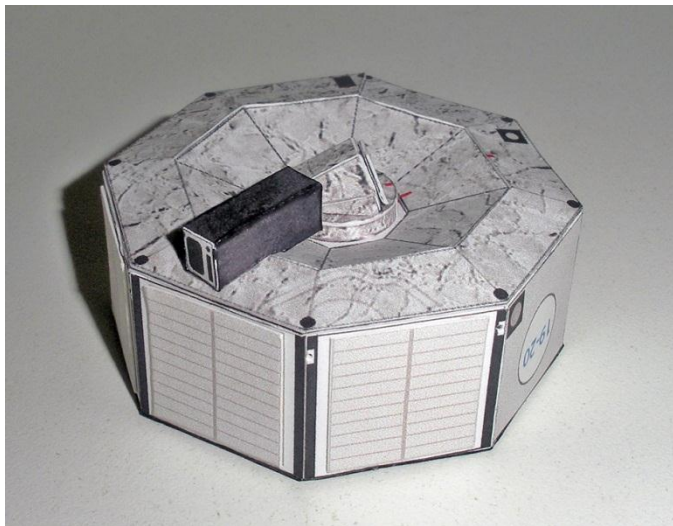
Glue this to the bottom of the body, match the seem with the red marker.



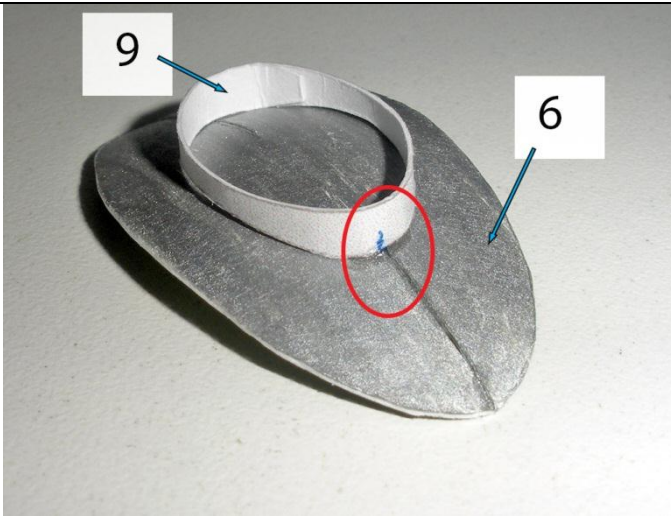
Glue **16-17** to the black line on **15**.



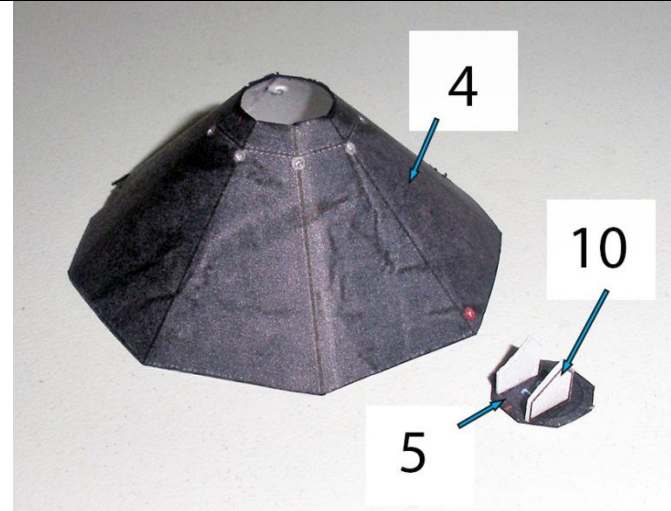
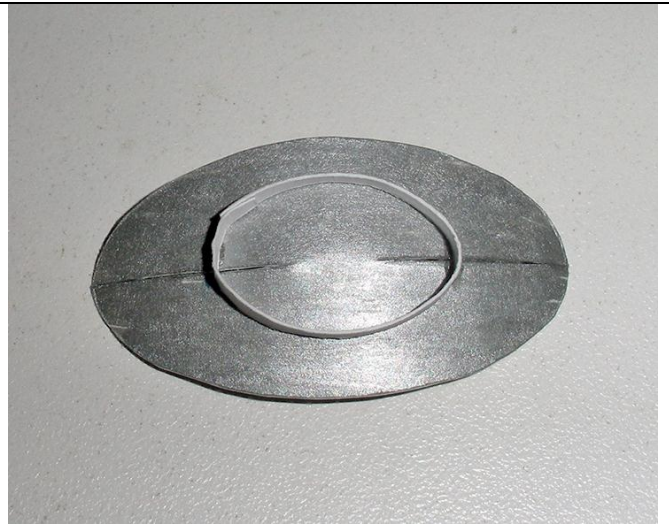
Glue **16-17** to the bottom, match the red markers, glue **18** onto the marker area with a slight angle as shown.



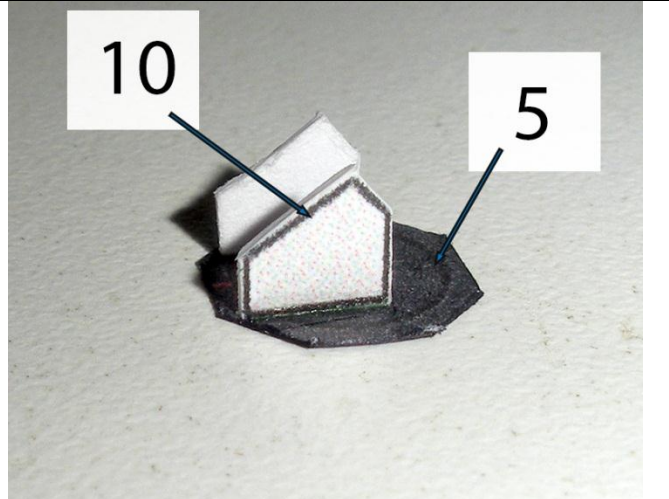
Add a curve to part **6** (see page 2 on the parts file), then glue the gaps together.



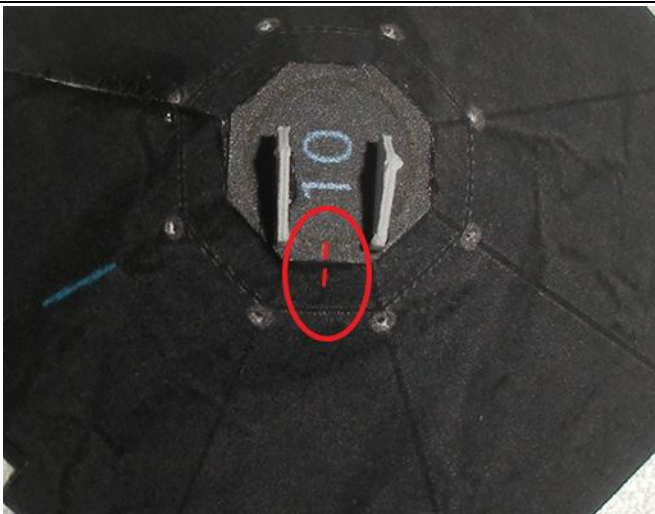
Roll **9** to an oval shape (see page 2 on the parts file), glue to back of **6** as shown, match the markers on **9** to the seem on **6**.



Cut out the blue areas from **4**, poke holes on the 8 grey dots and the red dot.

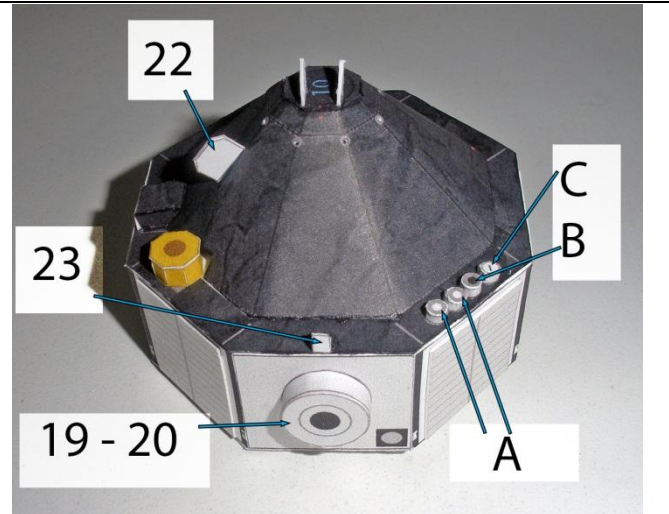


Glue **10** onto the green lines on **5** as shown.

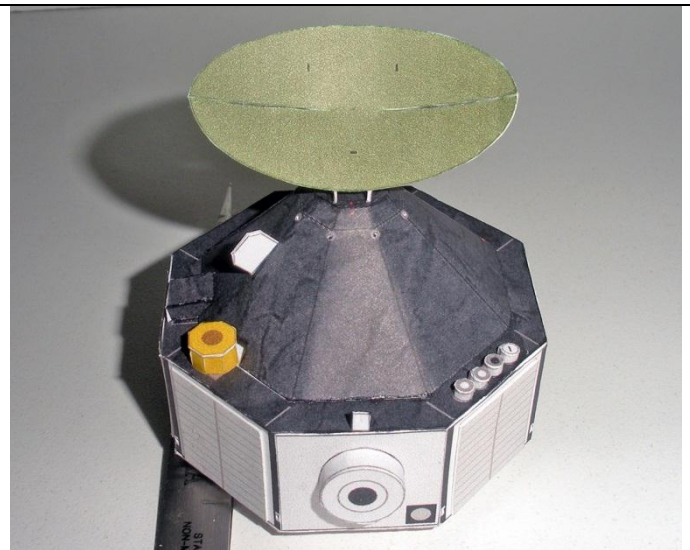
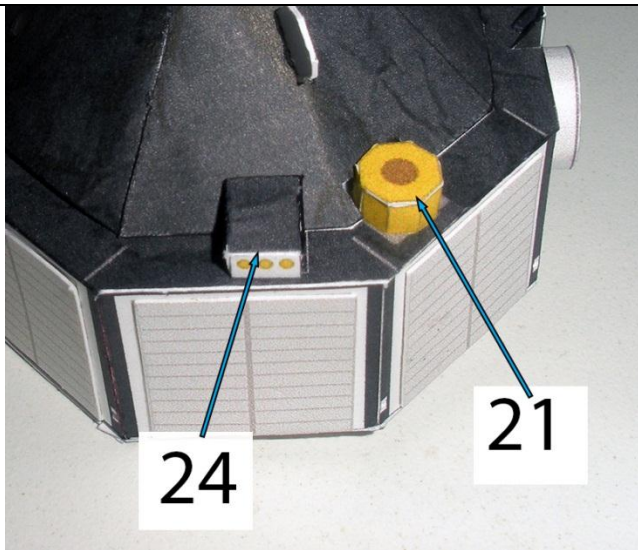


Glue to the top of **4**, match the red markers.

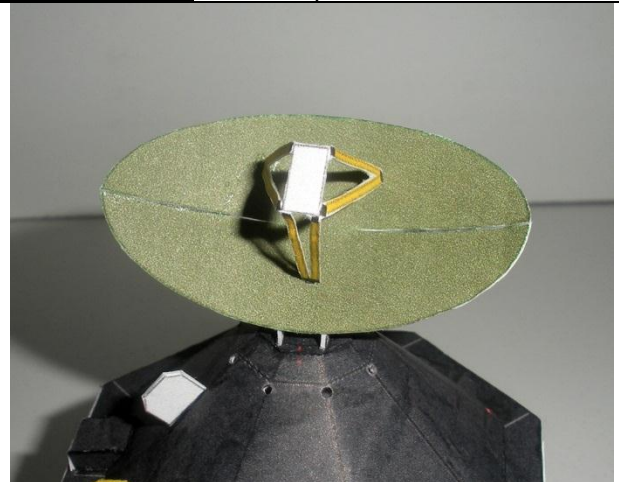
Glue **4-5** onto the top of the body, match the seem on **4** to the seem on the body.



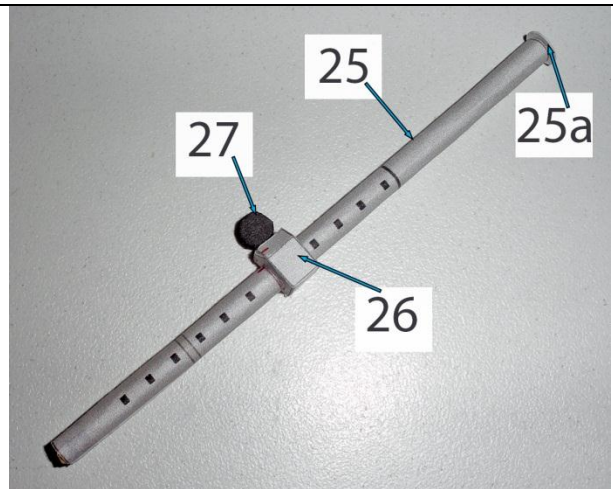
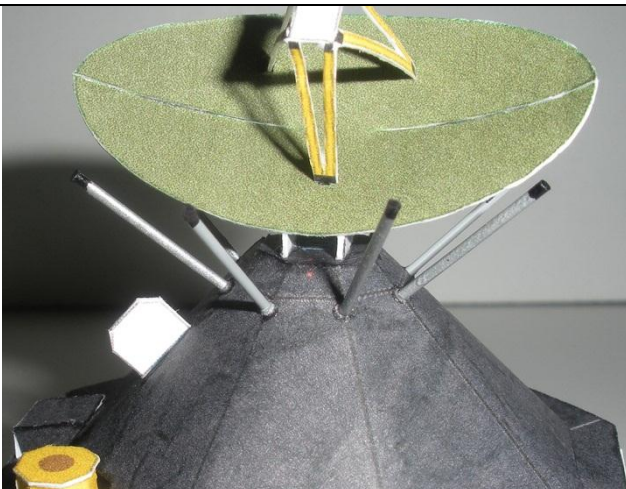
Glue these to the labeled areas on the body.



Glue the dish on top, note the orientation of the three black markers on the dish. See next photo.

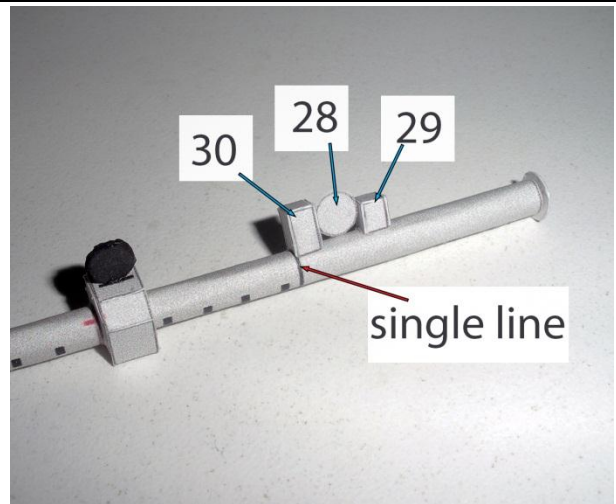
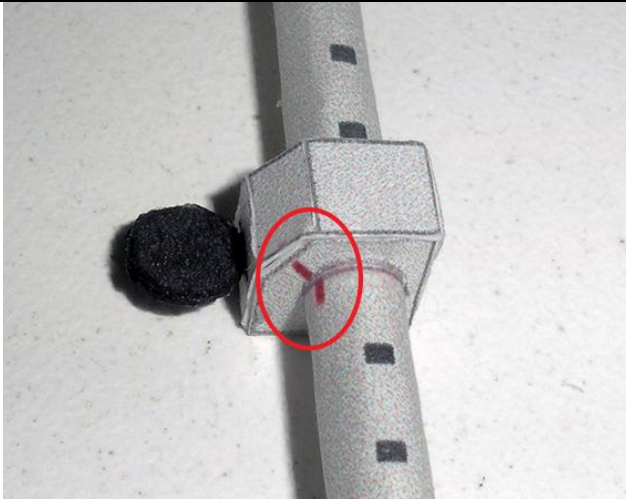


Glue **8** to the back side of **7**. A trick I learned is to bend the legs down, spread some glue to the backside of the legs to make them stronger, let dry and glue onto the dish as shown.

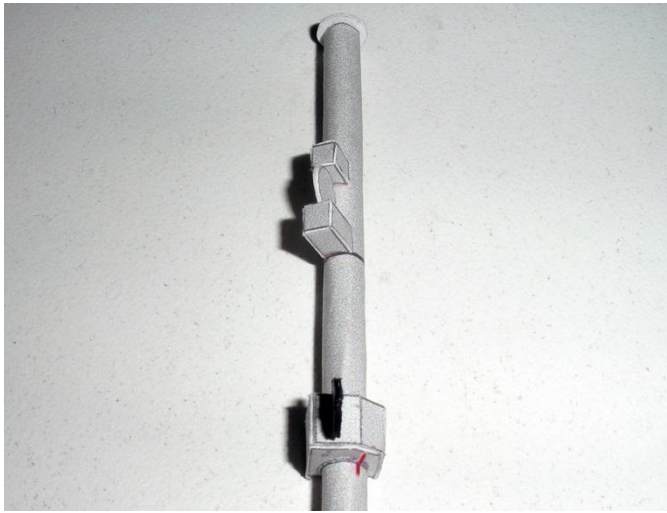


Prepare the 8 pieces according to the instructions on page 3 of the parts file, glue onto the holes on 4 as shown.

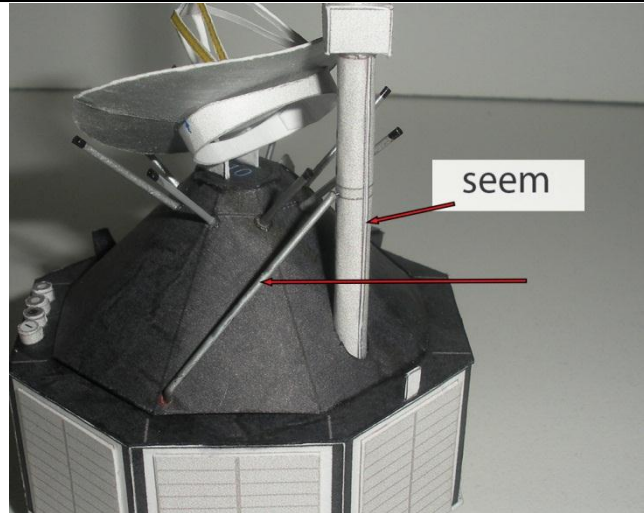
The single line marks the upper area of the mast.
Glue **26** onto the marked area on **25** match the two red markers, (see next photo). If don't have a 5 mm ball, use part **27** in its place onto the black line on 26.



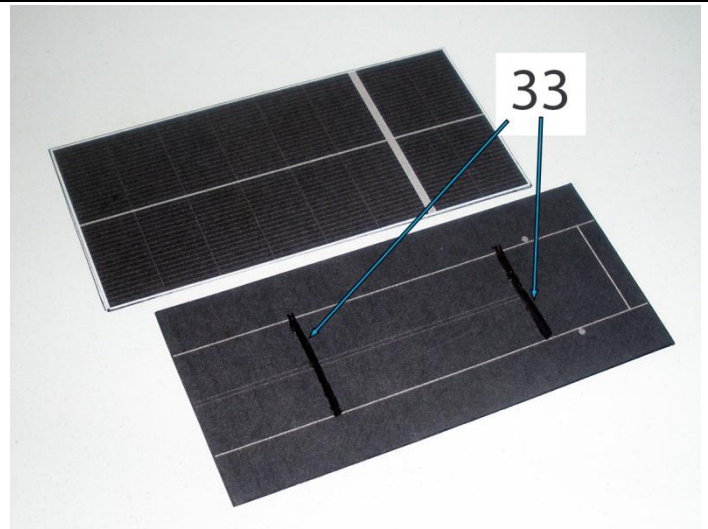
Glue these as shown.



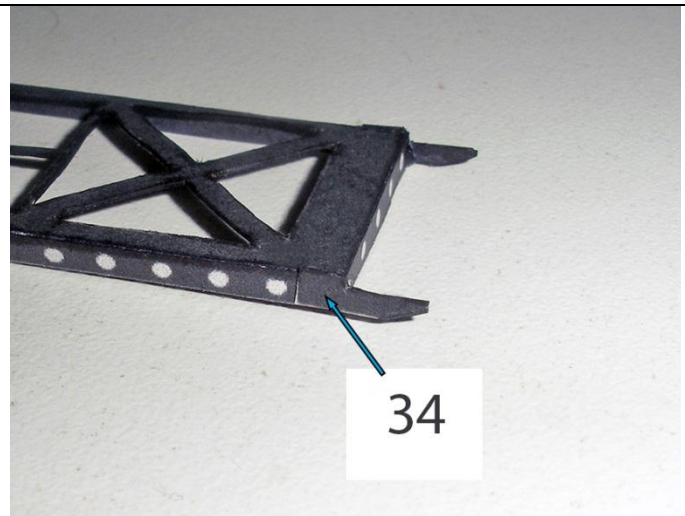
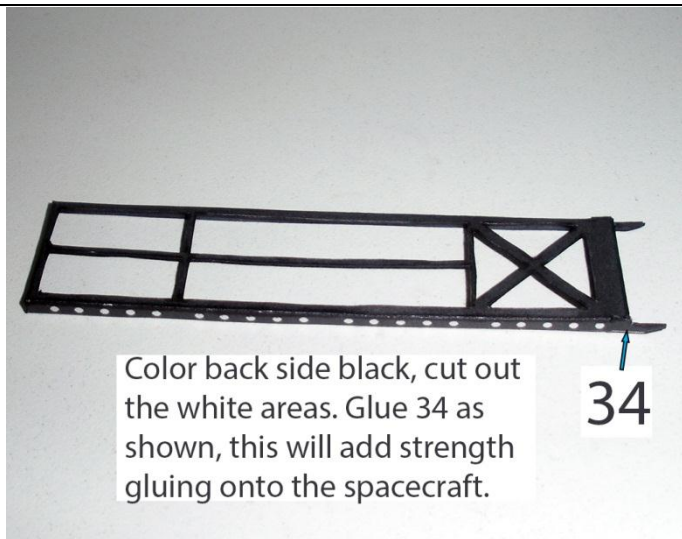
Note the slight offset angle from the parts below it.



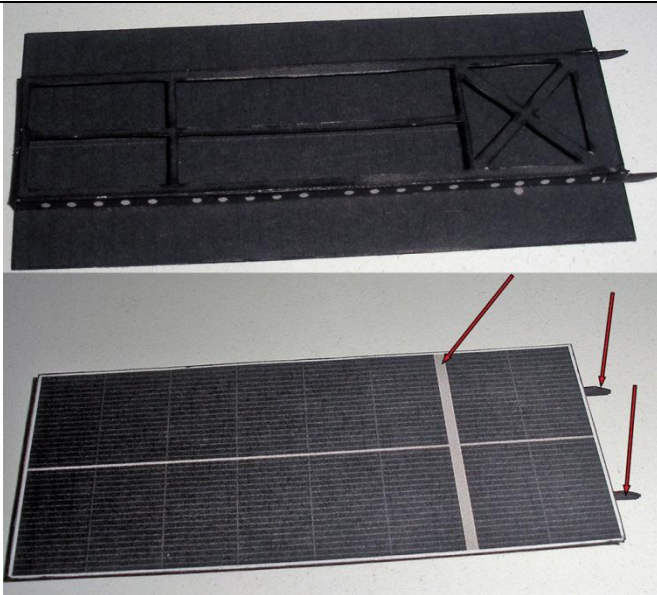
Glue into the hole in the back of the spacecraft. Prepare a plastic broom straw according to the instruction on page 3 of the parts file, glue in place as shown.



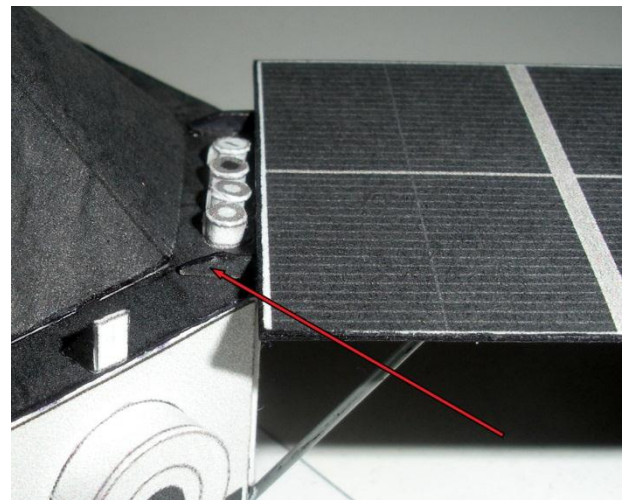
Fold-glue the solar panels in half, Glue **33** onto the two lines as shown.



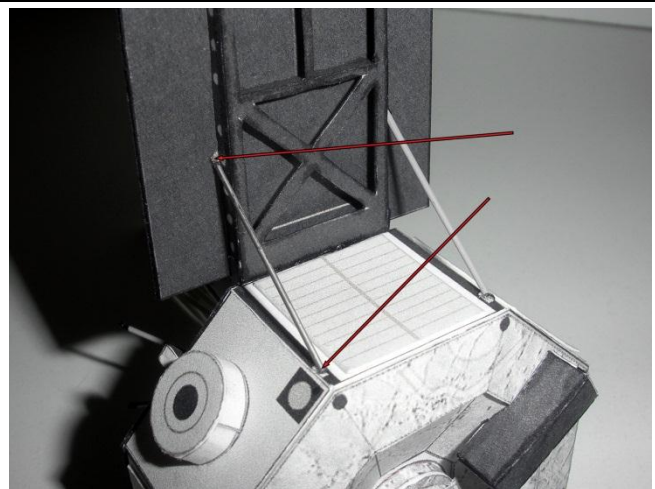
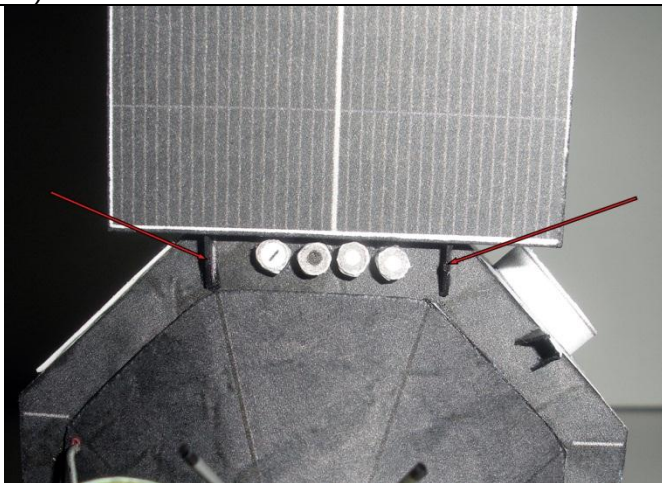
Part 34 will make the tabs stronger for gluing onto the spacecraft.



Glue to the back, the two tabs should extend as shown and should be on the same end as the thick grey line (red arrows).



Glue onto the grey lines on the top (see next photo for another look).
Can use parts **35** for the struts or use plastic broom straws for a realistic look. See instructions on page 4 for preparing them for use.



Glue one end onto the small hole near the bottom of the body, then onto the grey dot under the solar panel.
May want to do this one solar panel at a time.

Your model is done.

