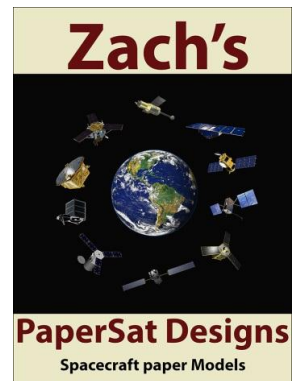
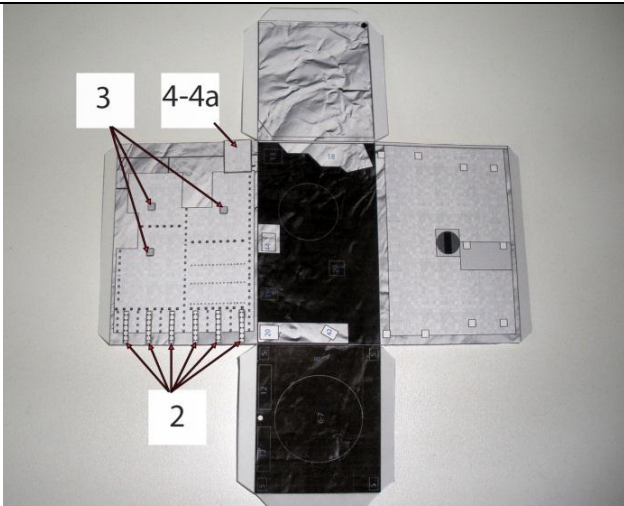


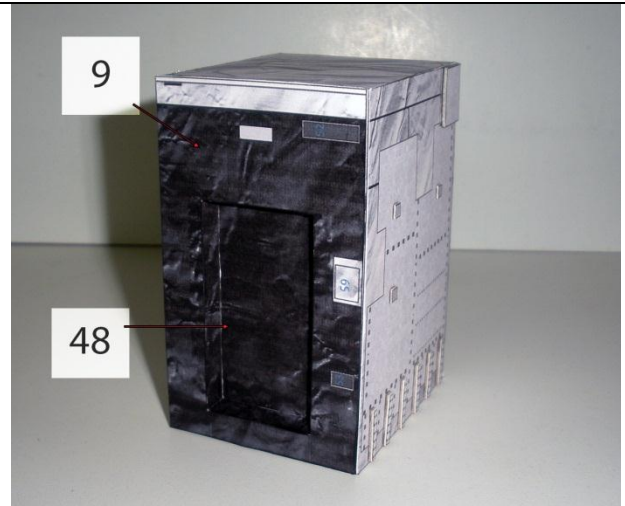
GOES-S 1/35 Scale Paper Model Instructions



NOTE: GOES-S and GOES-R are identical satellites.



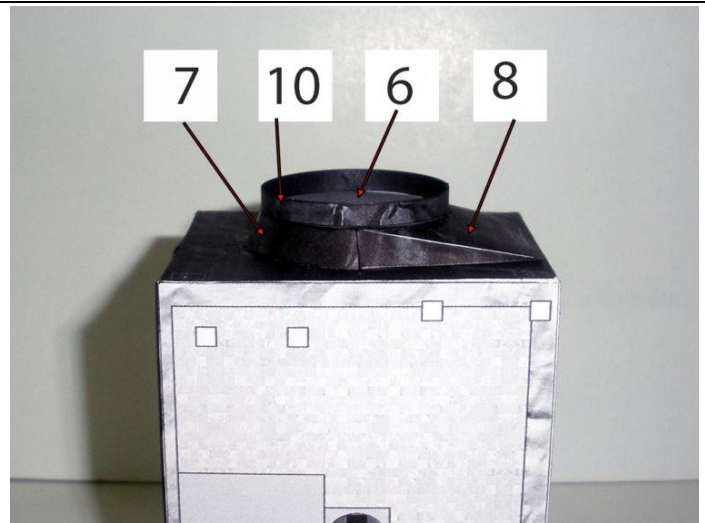
Glue **4a** behind **4**, then to the spacecraft.



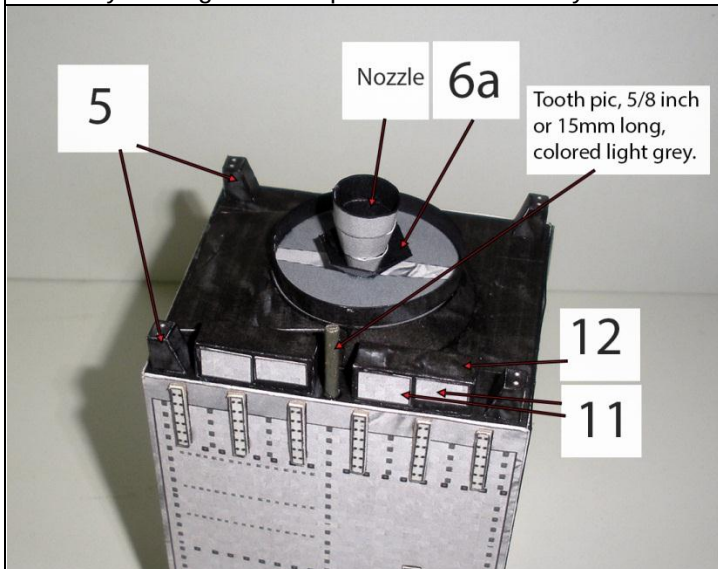
Cut out the light blue area on **9**.
Glue **48** to backside of **9**, then glue to the spacecraft.



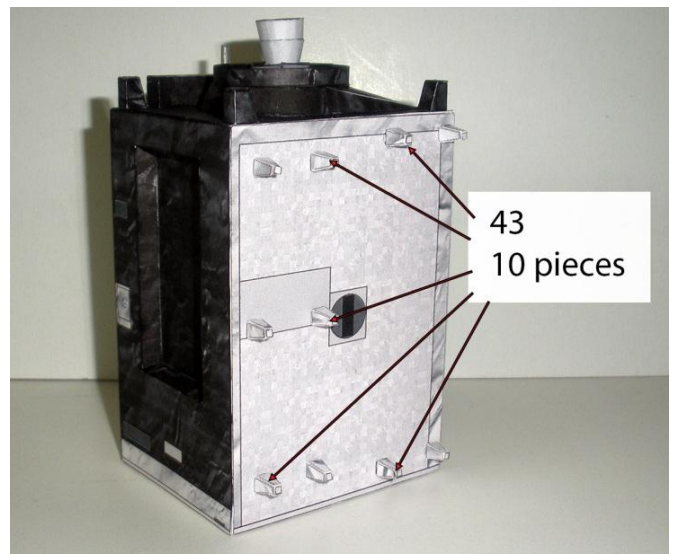
Bottom – Can't locate photos of the bottom to use, so best educated guess was used for the design.
Rounded side of **8** is glued to the upper edge of **6-7** assembly. **10** is glued on top of the 6-7 assembly.

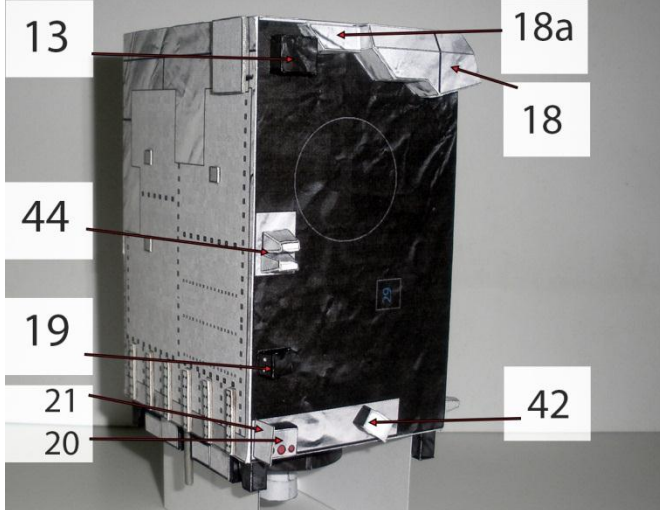


Back straight edge of **8** will curve up, glue it flat onto the bottom of the spacecraft.

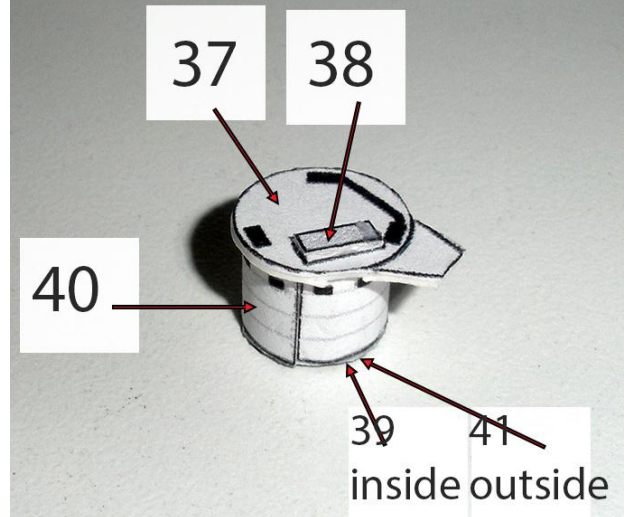


Glue these to the labeled areas on the bottom.





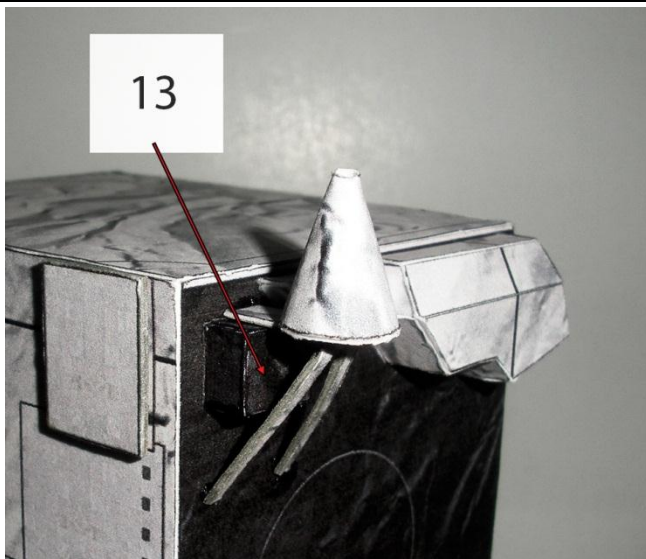
Larger end with the curve on **42** faces down and outwards from the spacecraft.



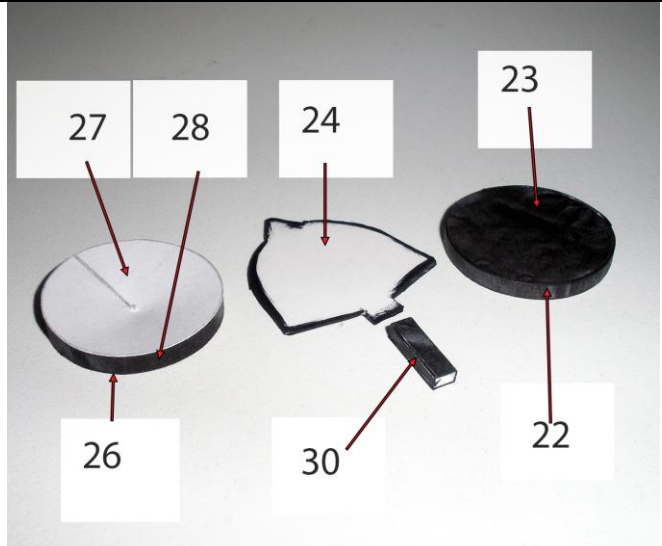
The spacecraft has a long Magnetometer arm that extends from this while in orbit. If you desire to use the Magnetometer arm, see Page 9.



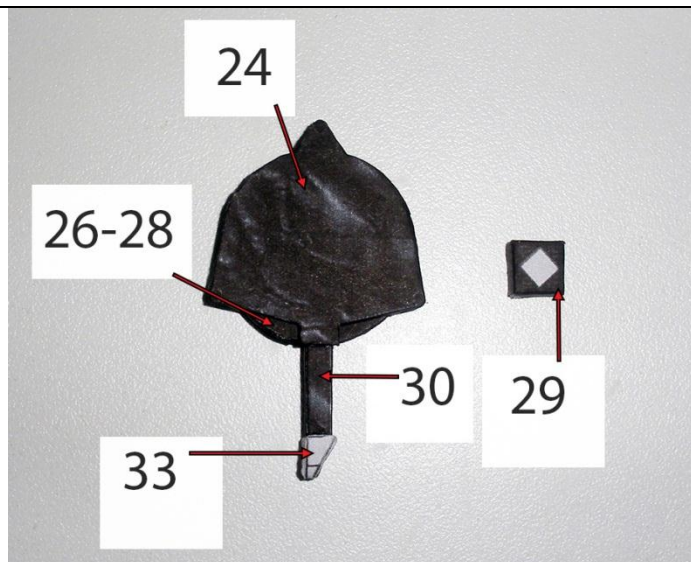
Make two of these, the other uses Parts **63-66** on page 4. Save the 2nd one to the side for later use.



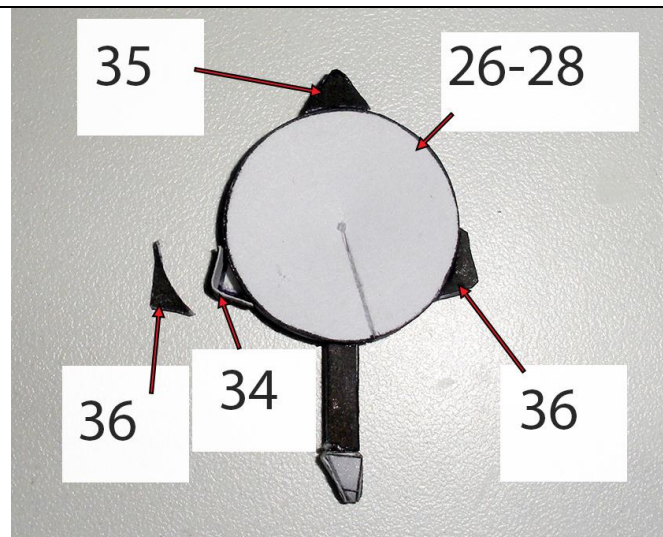
Glue the first set as shown.



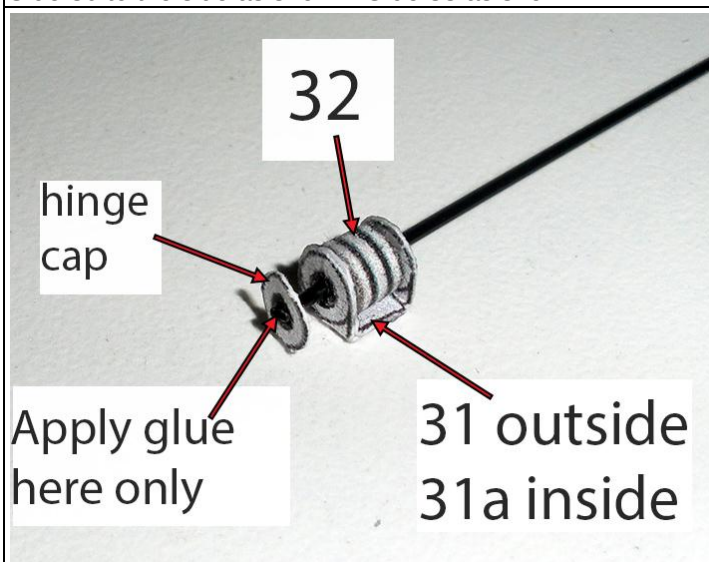
26-28 forms a drum. Fold **30** to a long box. **22-23** is slightly smaller in diameter than 26-28.



Glue **24** to the BLACK side of **26-28**-a little will stick from the bottom. Poke small hole on the black dots on **33**. Glue **30** to the side as shown. Glue **33** as shown.



Turn the HGA over. Glue **34** (3 pieces) on the edges of the three triangle points, may need to trim a little. Glue **35** and **36** as shown, may need to trim a little.

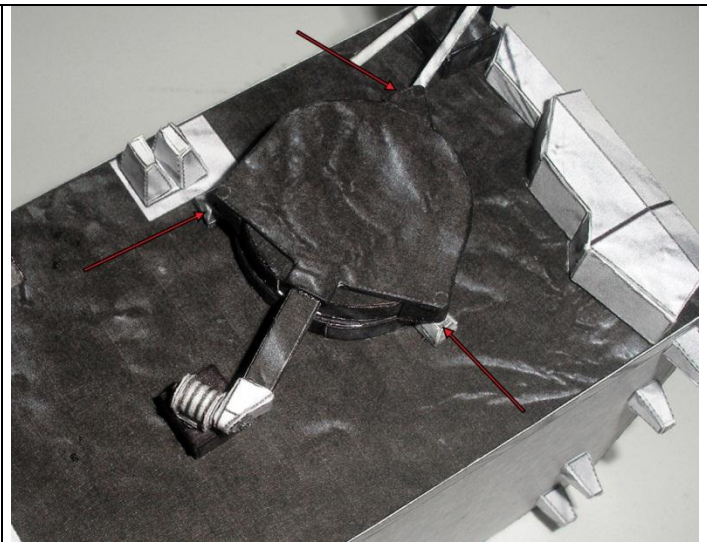
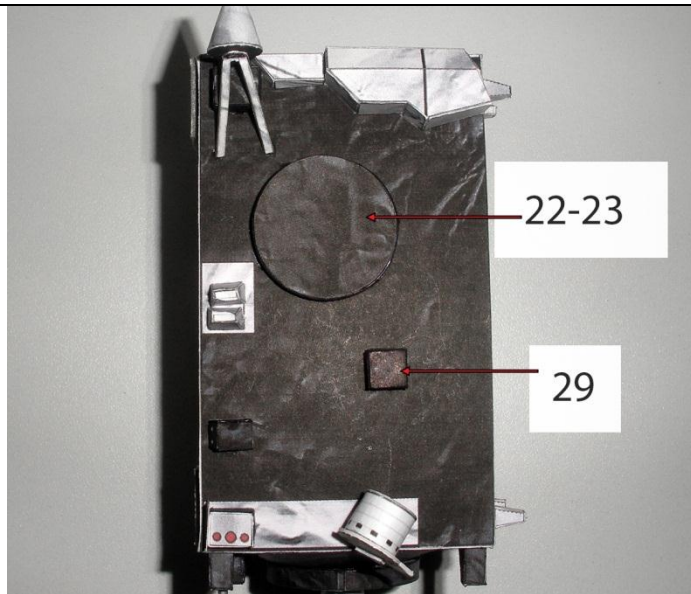


If you desire a moving HGA like that on the spacecraft...
Poke small holes on the small dots on these parts.
Need a plastic broom straw or thin music wire.
Wrap **32** around the plastic broom straw or music wire until you get a snug fit. Glue **31**, **31a** and **32** together as shown.

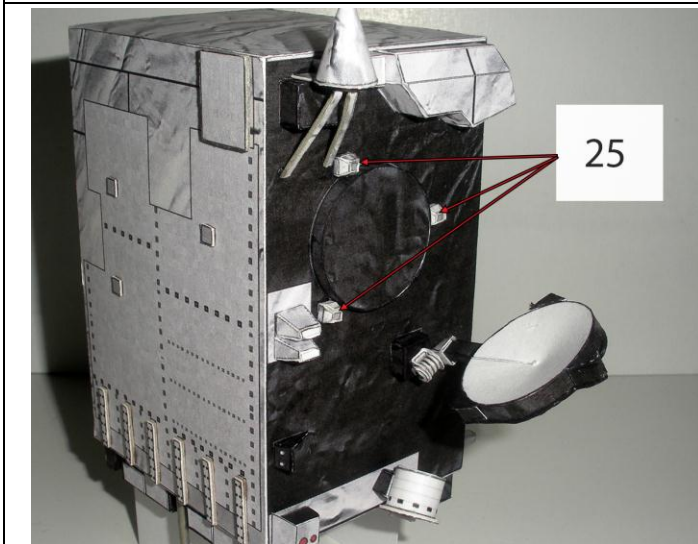


Push the plastic broom straw or wire through the hinge and place the **hinge cap** on as shown and apply glue to the OUTSIDE as shown to hold the wire in place. Thread the other end of the straw or wire through **Part 33** as shown squeeze together and apply glue to the outside as shown.

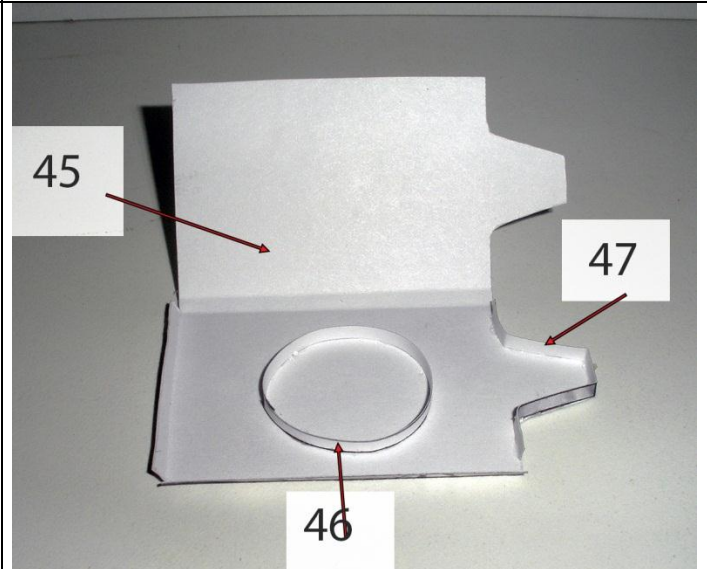
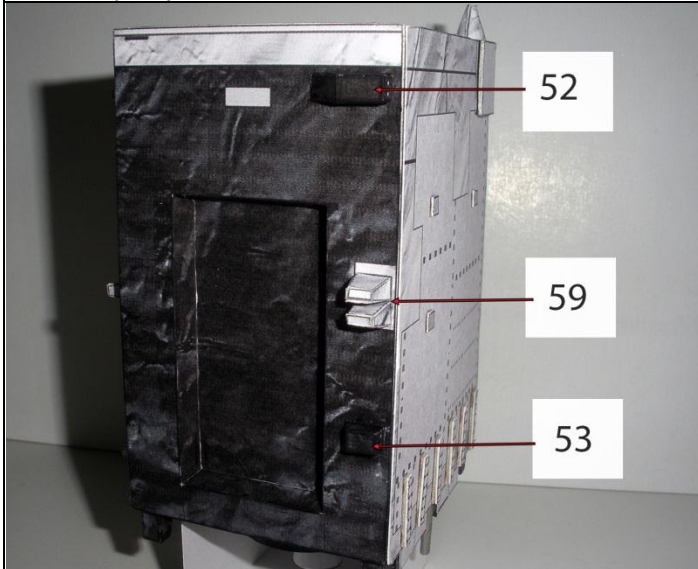


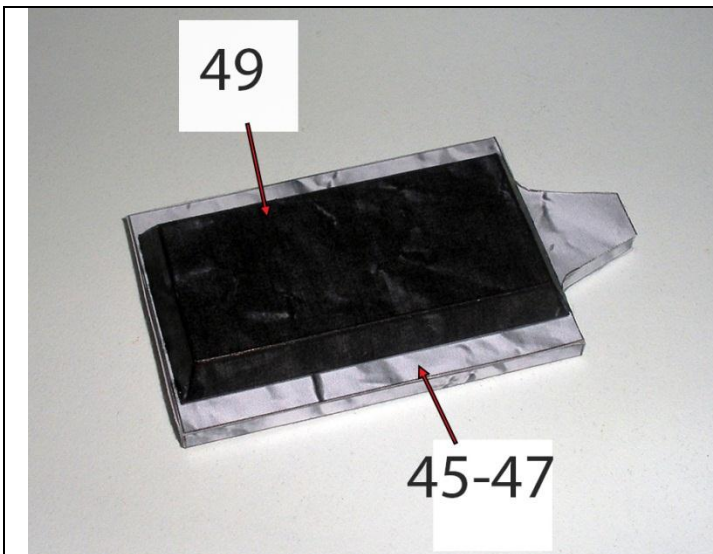


Glue the HGA as shown, top triangle point should be a little off the to right near the right strut (Part 15). **25** is glued under each of the three triangle points as indicated by the arrows. This shows the HGA in closed position.

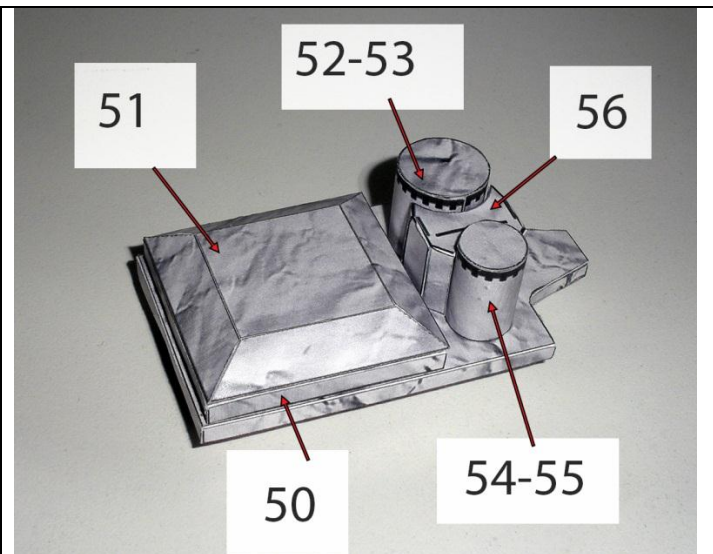


HGA in open position.

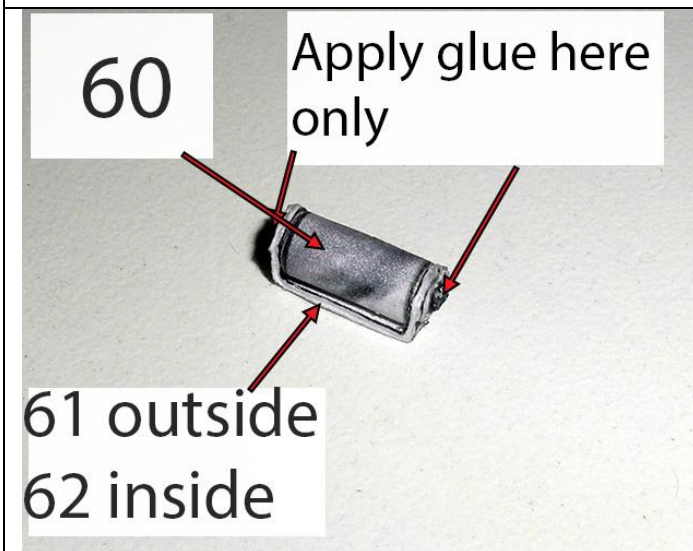




Glue **49** to backside of **45-47**

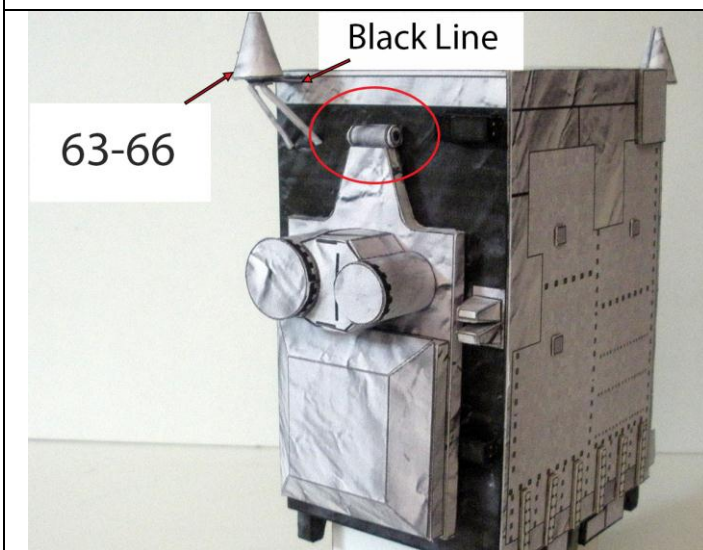


Glue onto the labeled areas on **45-47**.



If desired the parts you just assembled to move like that on the spacecraft...

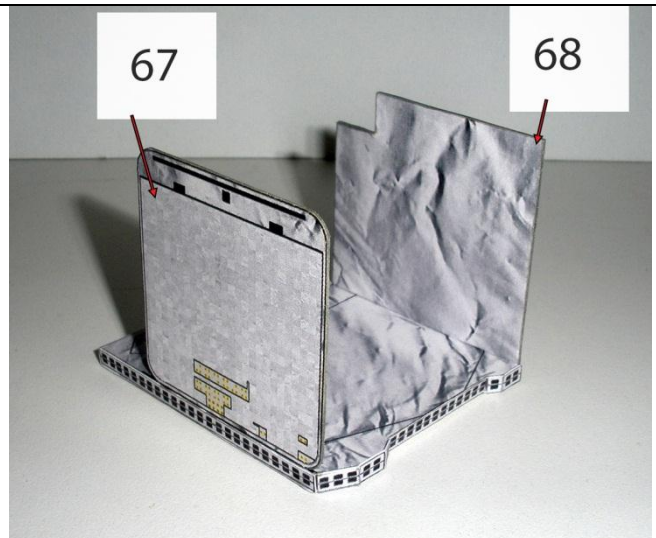
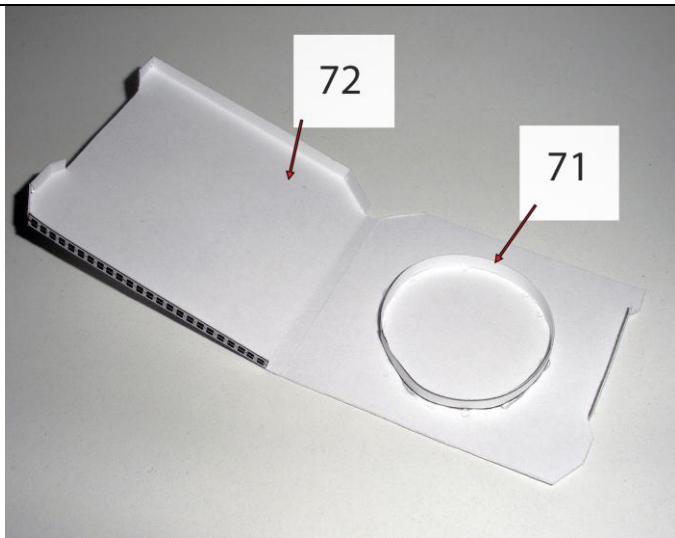
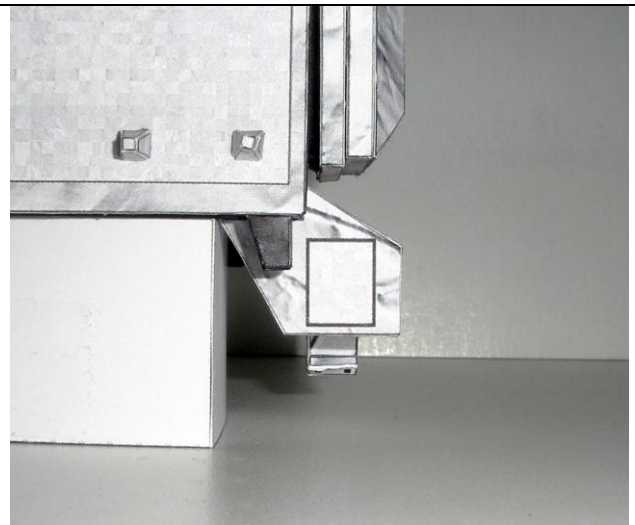
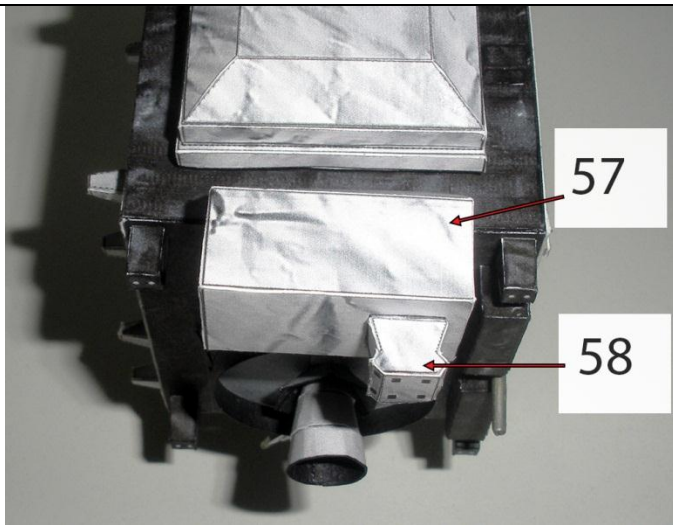
Poke small holes on **61** and **62** before cutting.
Glue **61-62** together.
Wrap **60** around a plastic broom straw or thin music wire until you get a snug fit.
DO NOT glue **60** onto **61-62** hinge, It needs to move.
Thread the wire through the hinge as shown and apply glue the outside only to hold the wire in place. Cut off the remaining wire.



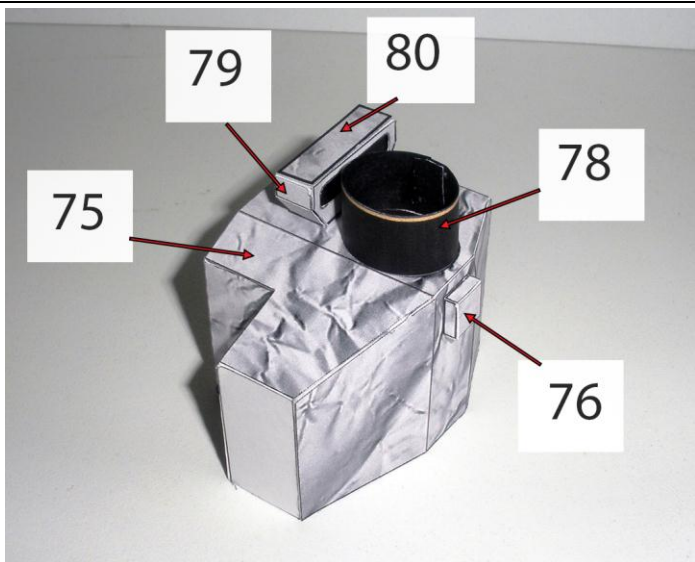
Glue the instrument assembly to Part **60** only on the hinge as shown.

Place the entire assembly onto the spacecraft – into the opening from Part **48**. Make sure it's straight and glue the hinge to the grey rectangle graphic as shown.

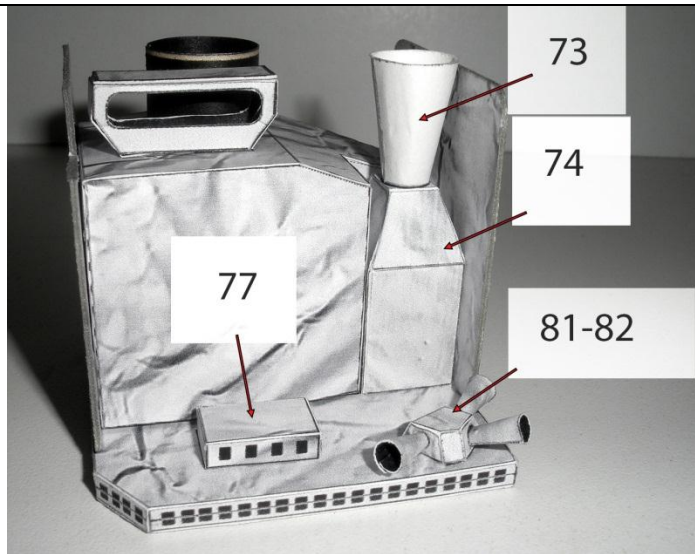
Glue the 2nd antenna you made earlier (Part **63-66**) on the black line at the top left as shown.



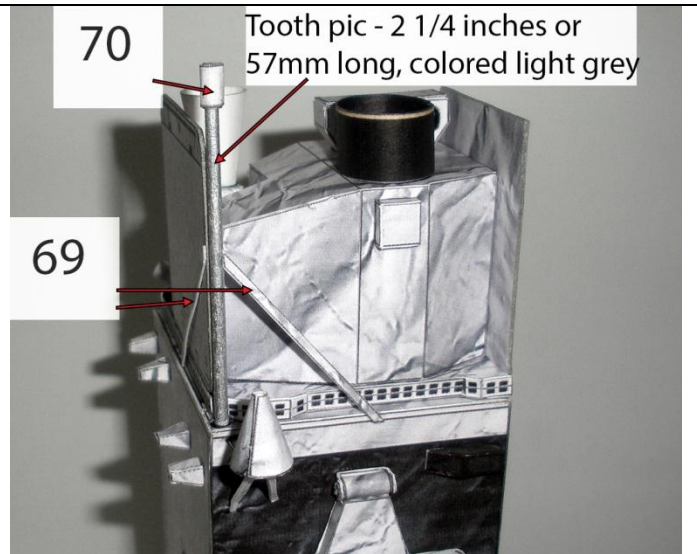
Glue **67-68** on the outer edge (Thick black line) and towards the front as shown with the mirror graphics towards the outside.



Glue in place as shown towards the front edge. Glue the side panels onto the side of **75**.

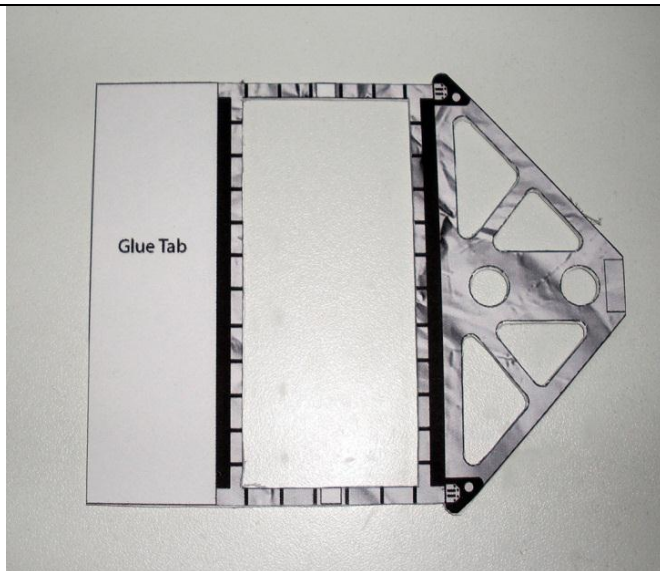


Glue onto the labeled areas as shown.

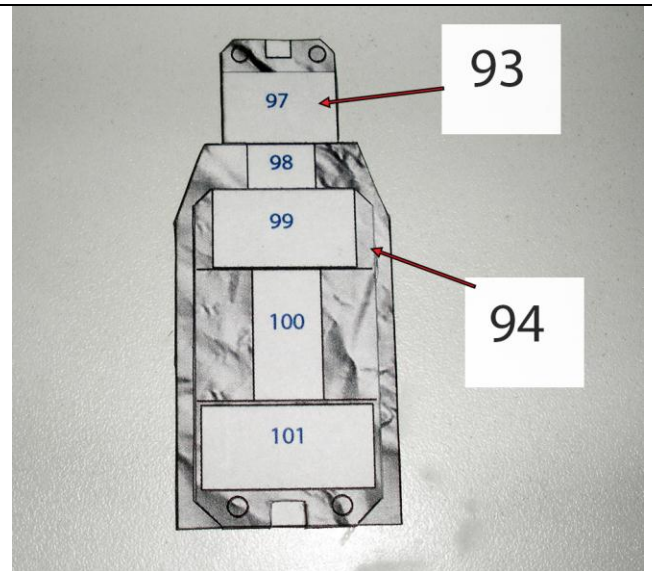


Glue entire upper assembly onto the outline graphics onto the top as shown.

Glue the tooth pic rod onto the black dot at the corner as shown.



Cut out all the light blue areas. Glue **95** to cardstock, then glue to backside of **96** for strength.



Solar Instruments.

Cut out the light blue square from bottom of 94.

Glue **94** onto the labeled area on **93**

If you want the solar instruments to move like that on the spacecraft...

Poke small holes on **83-84** and **85-86**.

Glue **83-84** together and **85-86** together.

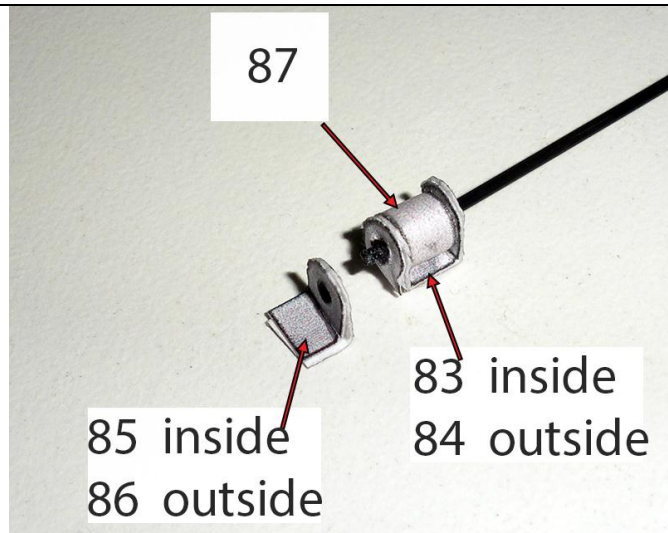
Wrap **87** around a plastic broom straw or thin music wire into you get a snug fit and glue to hold together, remove the wire.

Glue **87** onto **83-84** together to form a hinge. Slide the wire through again to make sure the glue does not block the hole
The wire must be able to move.

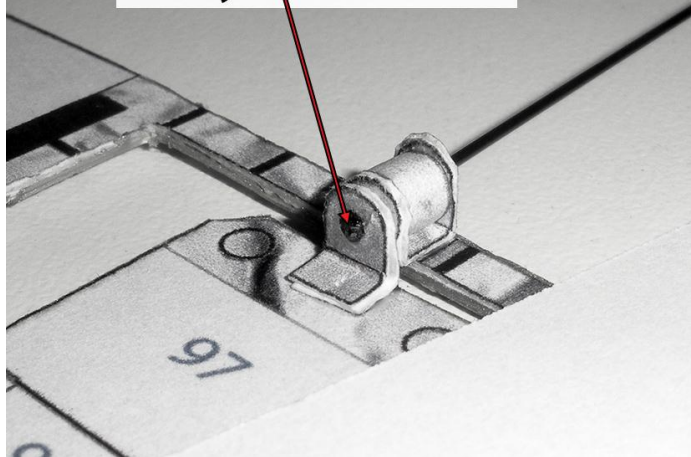
Make two sets of these.

Glue **83-84** assembly onto the white square on **Part 96**.

NOTE-glue so that part of the hinge extends a little into the opening you created when you cutout the light blue rectangle from Parts 95 and 96 (see next photo).



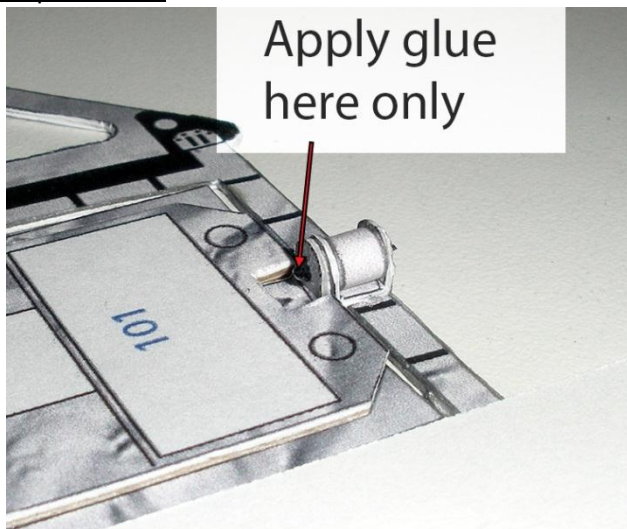
Apply glue here only



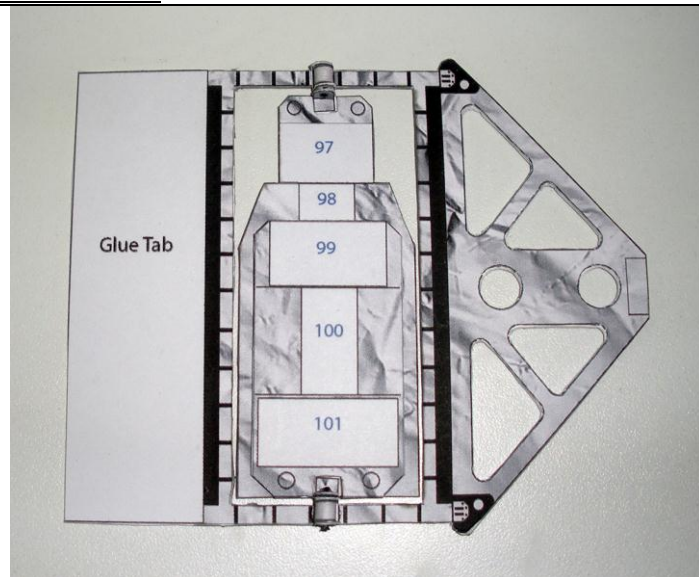
Glue **85-86** onto white square on **Part 93** as shown. Slide the wire farther into **85-86**. Apply glue only at the area shown above.

Apply glue to the **OUTSIDE ONLY** as shown to hold the wire onto part **85-86**.

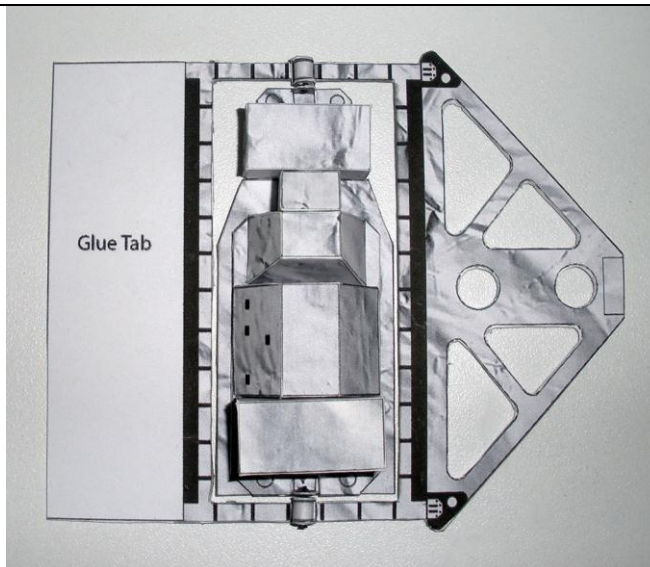
Apply glue here only



Do the same at the bottom.

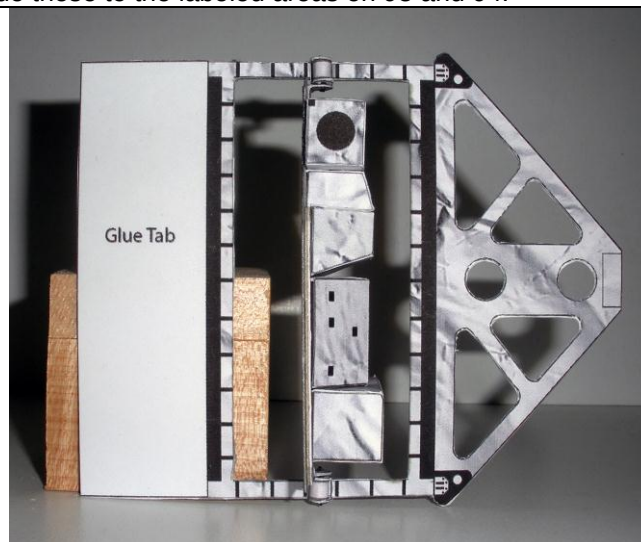


Should look like this.

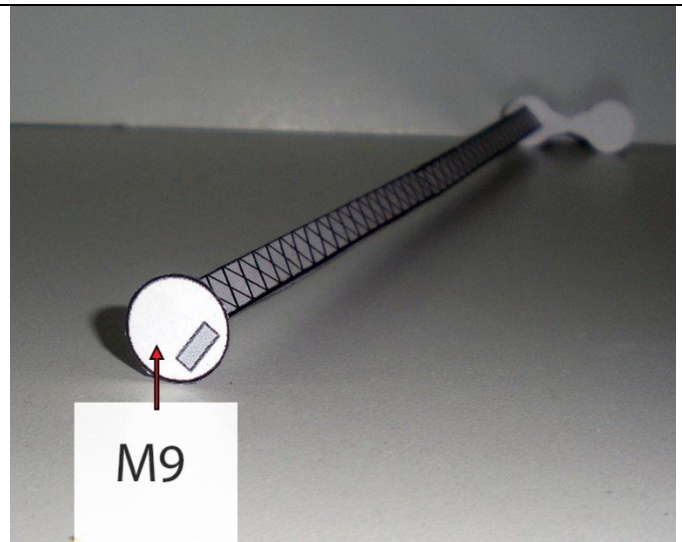
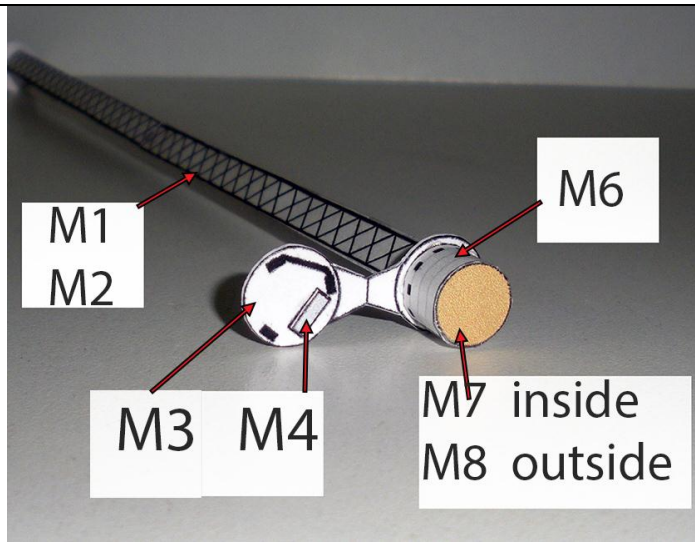


Glue these to the labeled areas on 93 and 94.

Black marker to the bottom left

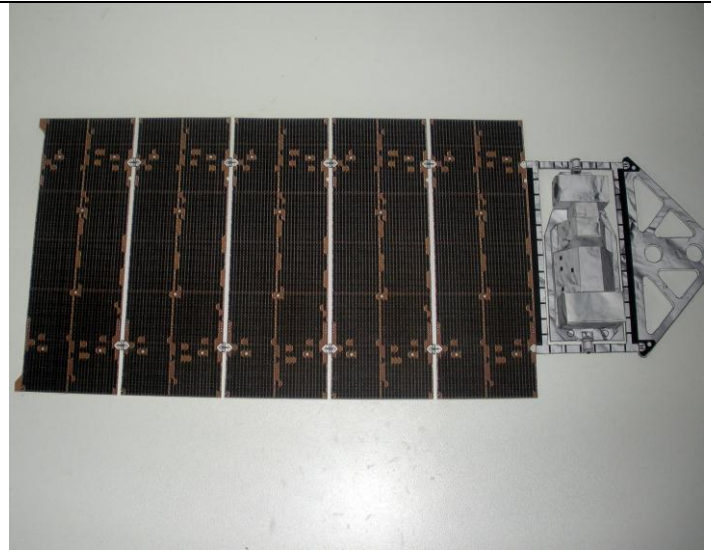
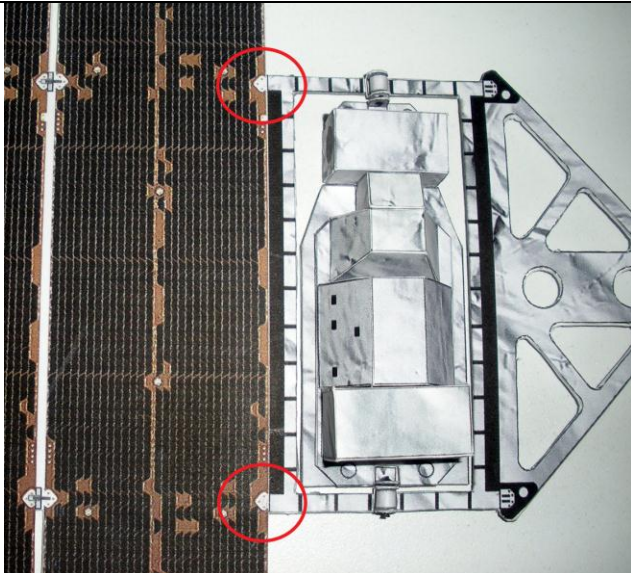


Movable solar instruments.



If you desire to display the Magnetometer arm..
Use this instead of parts 37-41. These are found on page 8
on the parts file. They are glued on the same area on the
spacecraft illustrated on page 3.

Cut out the light blue triangle from M3. The arm slides into
this opening into the cannister.

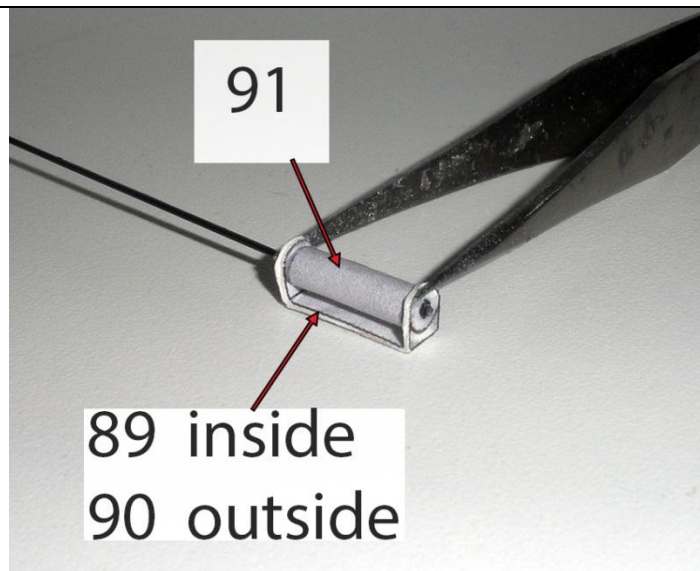


Solar Arrays.

A unique feature of this model is that the solar arrays you
see here are photos of the real thing.

Glue the front side onto the "glue Tab" on part 96 up to the
black line while matching the two hinges with the upper and
lower struts indicated by the two circles.

Glue to back side of the solar arrays to the back.



If you want the solar arrays to move like the ones on the spacecraft...

Poke small holes on the black dots on **89 and 90**.

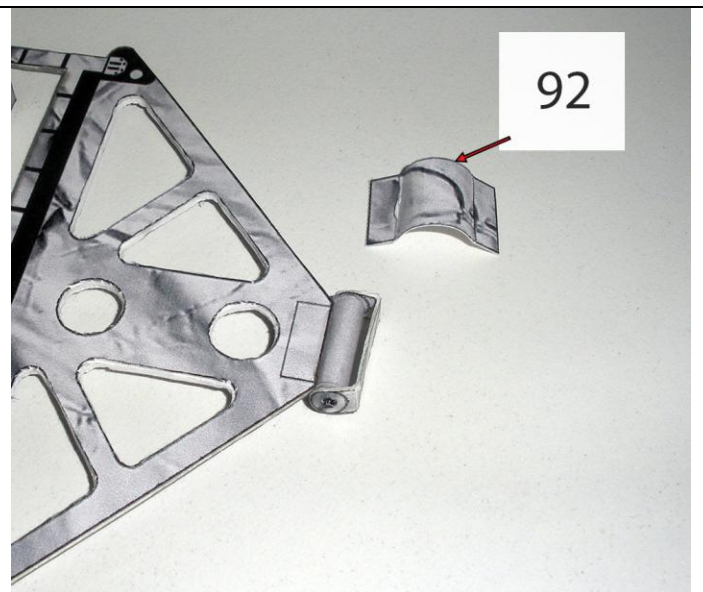
Glue **98-90** together as shown.

Wrap **91** around a plastic broom straw or thin music wire until you get a snug fit.

DO NOT glue 91 onto the hinge, must be able to move.

Slide the wire through the hinge and apply glue to the outside of the hinge to hold the wire in place.

Here you see a pair of tweezers is used to squeeze the hinge together while the glue on the outside dries.

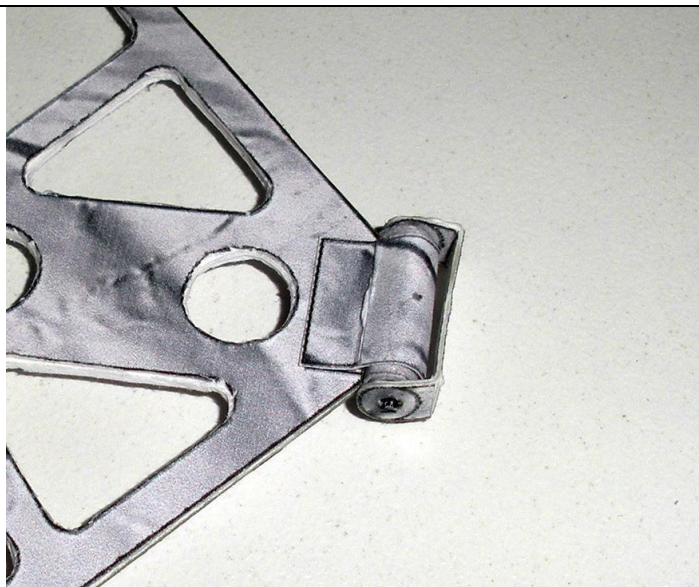


Glue the solar array arm to **Part 91 only** as shown. The rest of the hinge should move.

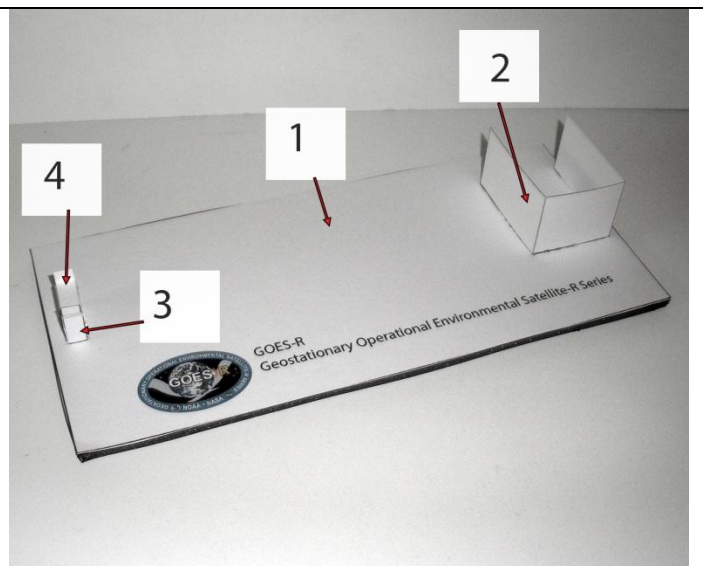
Add a curve to **92**.

Wrap and glue around Part **91** and glue the tabs onto each side of the arm as shown.

This will hold the arm onto the hinge better.



This will allow the solar arrays to pivot like that on the actual spacecraft.

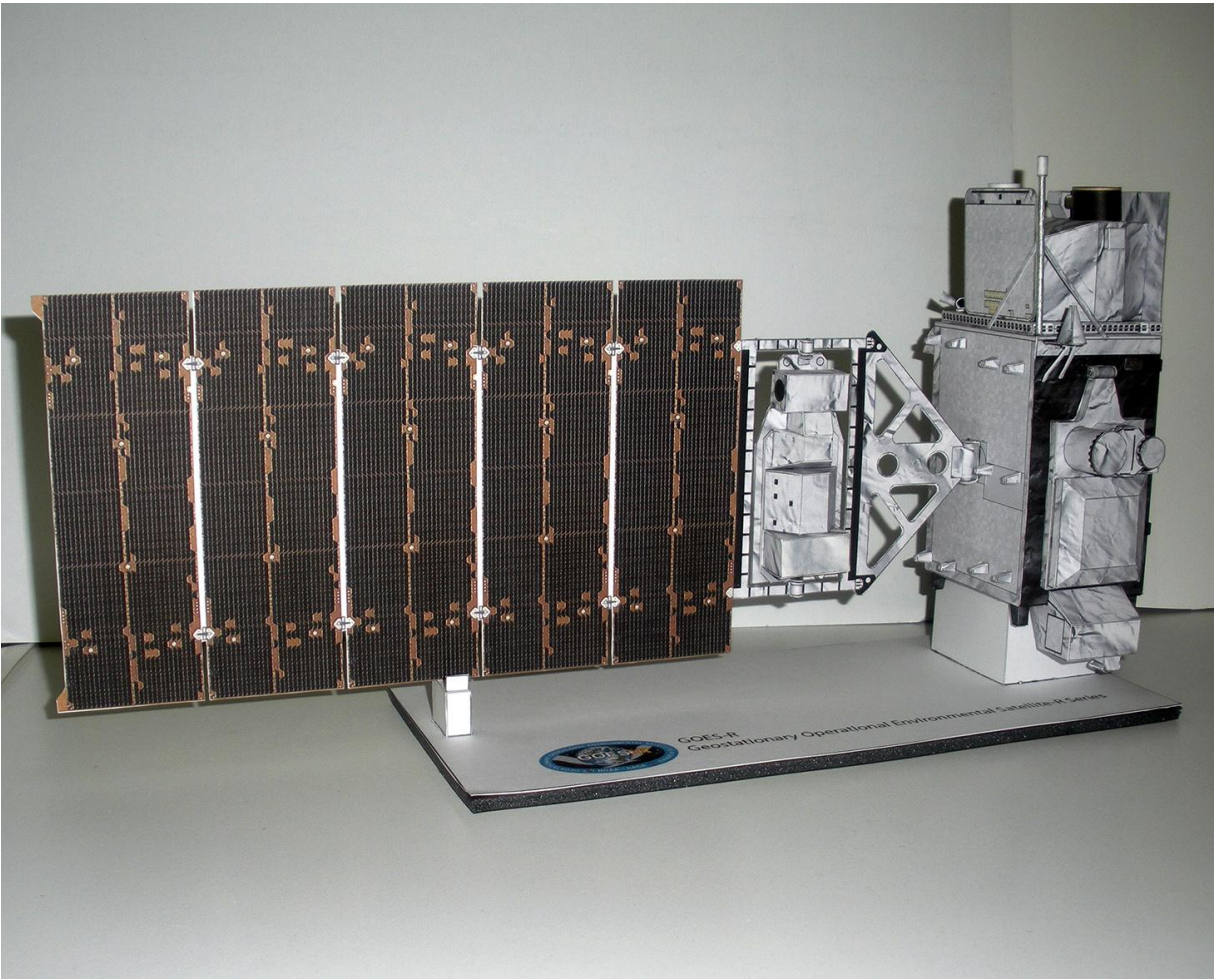


A model display stand is provided for you.

Once the solar arrays are attached to the spacecraft, it must be supported at all times or the weight of them will cause them to rip off from the model.

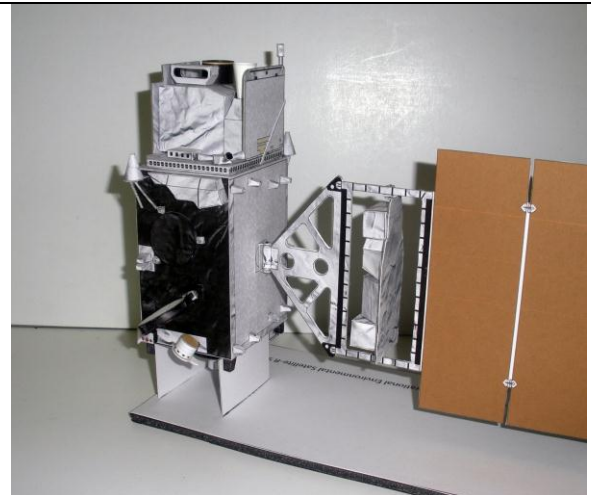
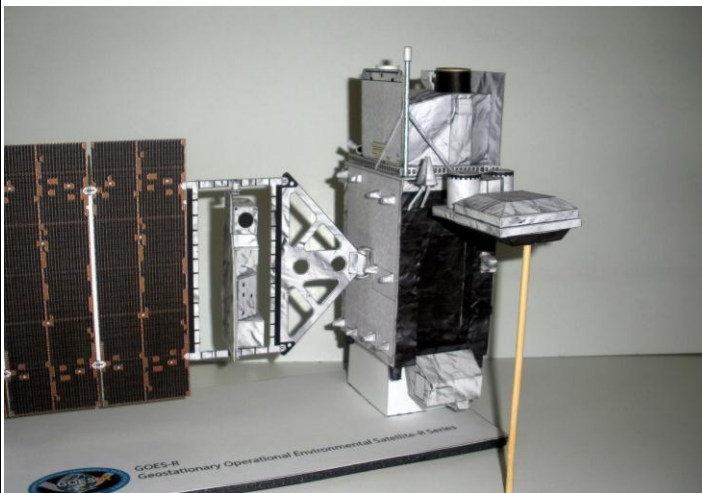
You can design a stand that you want.

If you are using the Magnetometer arm, need to design a stand to hold the model and support the solar arrays.



And now the exciting finish...

Attach the solar arrays to the BLACK RECTANGLE on the side you see here while on the display stand, make sure they are straight.
 Congrats! Your model is done.



Moving parts that mimics the actual spacecraft.