

Instruction for Pioneer 1 lunar probe

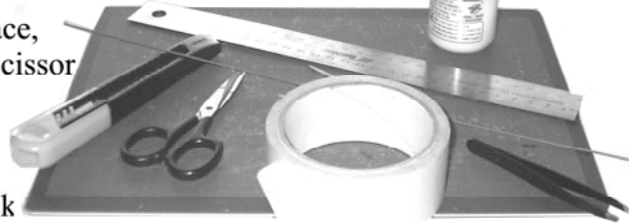


Due to the use of sharp knives this kit is not suitable for young children. Print the rocket on thin A4 cardboard - for example 100-160 gr/m. Notice that page 3 has to be printed on the backside of page 2.

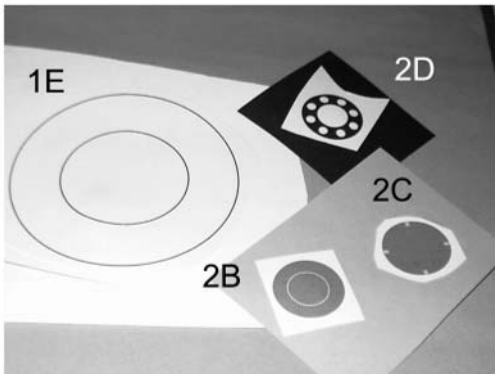
To build the satellite you will need a flat cutting surface, a metal ruler, white glue, a sharp knife for cutting, a scissor, some toothpicks to apply glue to parts.

To strengthen some of the parts you will need some grey and black cardboard.

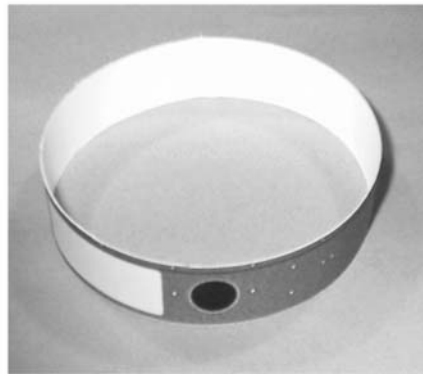
You will also need some masking tape and 1 mm thick metal wire.



Remember to score all of the parts before - before folding them. I gently score them with a sharp knife. On my webpage (see below) - you will find links to websites with hints about building paper models.



Glue 1E to cardboard, glue 2B and 2C to grey cardboard. Glue 2D to black cardboard.



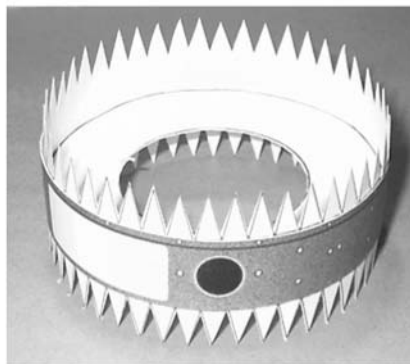
Glue 1A together using the connector 1B.



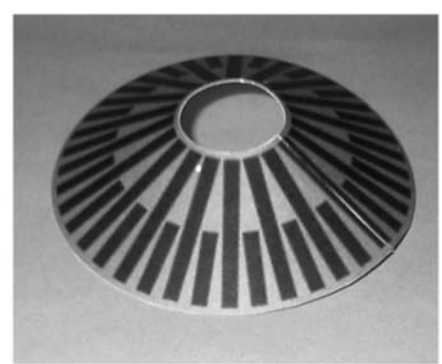
Glue 1C in to the bottom of 1A.



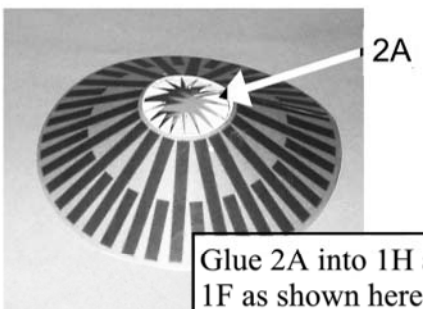
Glue 1E inside 1A as shown here.



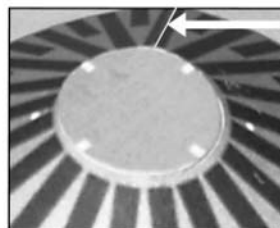
Glue 1D in to the top of 1A.



Glue 1H and 1F in to cones



Glue 2A into 1H and 1F as shown here.

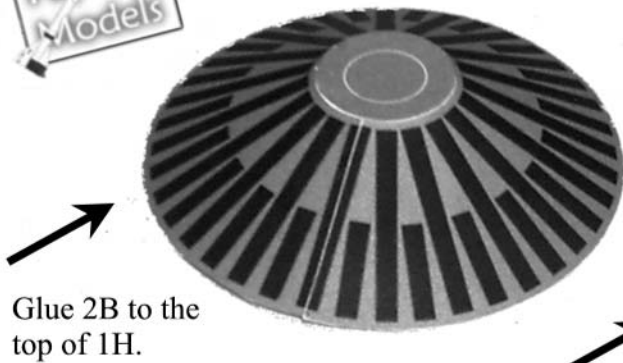


Glue 2C to the top of 1F. Notice that the white dots on 2C are located exactly between the dots on 1F

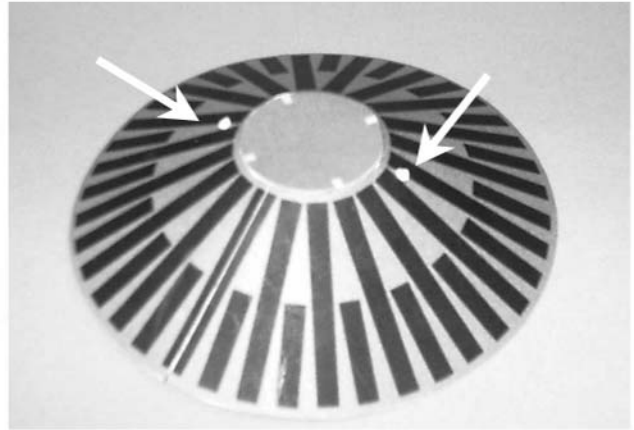
Seam is here!



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Glue 2B to the top of 1H.

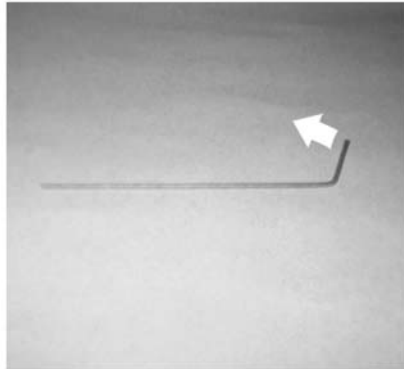


Carefully drill two holes in 1F. To prevent crushing the cone - make a little mark from outside with a toothpick. Then turn the cone around and place it on a cutting mat. Drill the holes from inside with a sharp needle.

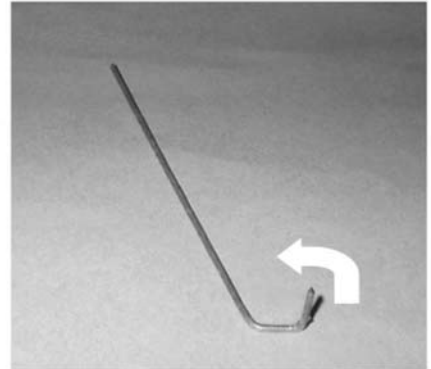


ite for antenna

For the antennas use the template on page 2, a piece of wire 1 mm thick and a pair of nippers.



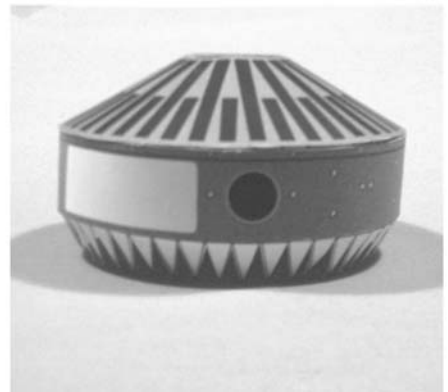
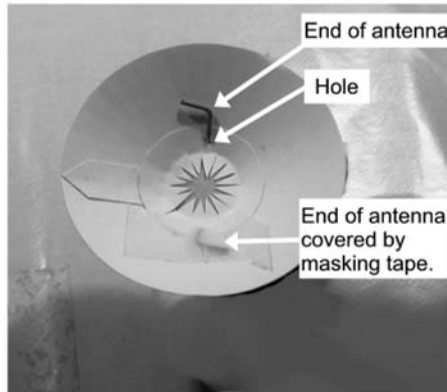
Bend the wire into the angle shown on the template.



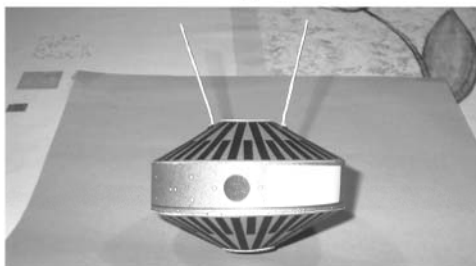
Then bend the shortest part into an angle of 90° as shown. Cut the long part in to the right length.



Put the antennas through the two holes in 1F. Then lock each antenna in the right position using a piece of masking tape. Take your time and make sure, that they are fitted correct. Then lay part 1F aside.

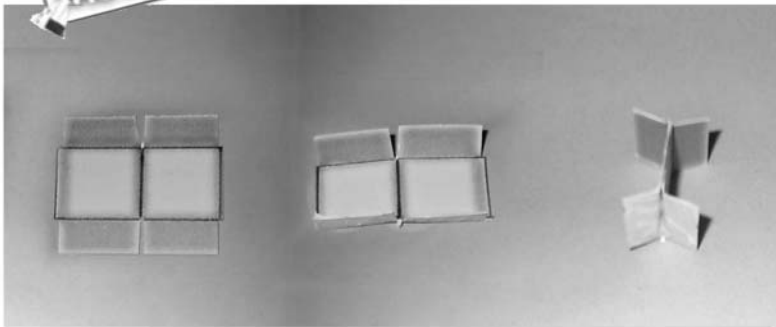
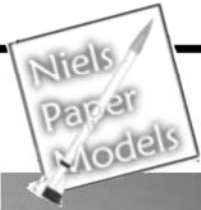


Now glue 1H to the top of the satellite. Dry fit the parts first. Align all seams.

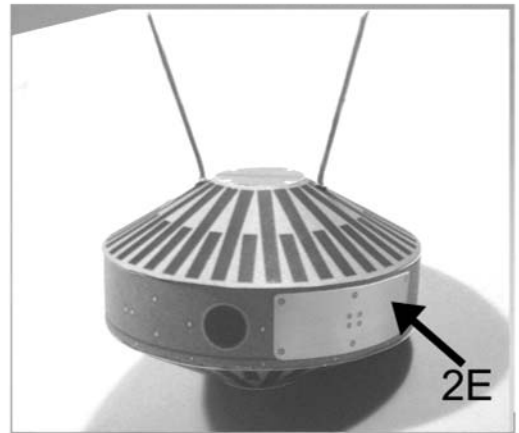


Turn the satellite around and carefully glue the bottom 1F to the satellite.

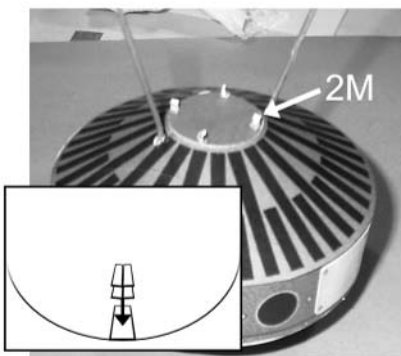
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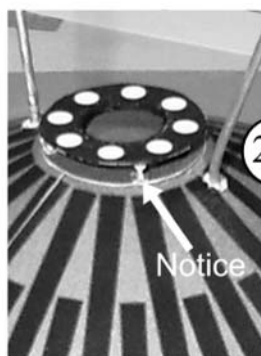
Carefully score and cut out 2M. Then fold the gluetabs upwards. Then glue it together - so it looks like Γ



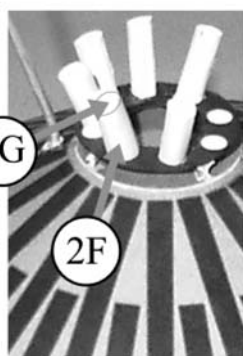
Glue 2E in place as shown. (2E's real color was aluminium)



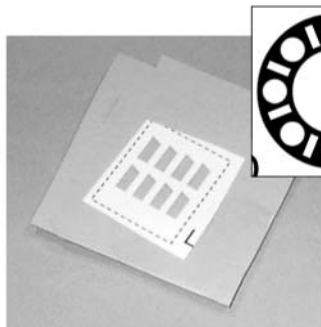
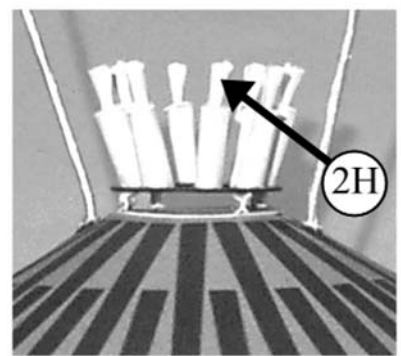
Glue 2M to the bottomplate 2C. Cutout 2D.



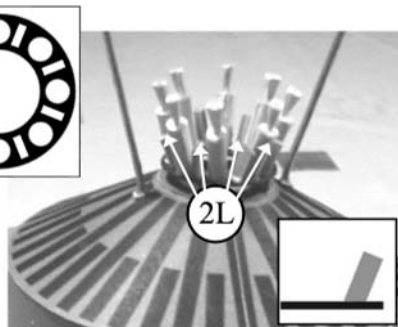
Glue 2D in place. Roll 2F to a tube.



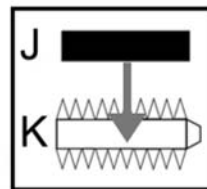
Glue 2G to the end of 2F. Use the tip of a pencil to roll 2H to a cone. Glue 2H to the end of 2F.



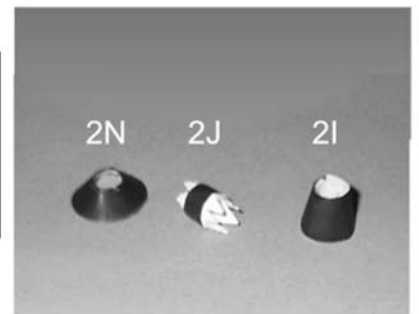
Glue 2L to grey card. Laminate to 1 mm thickness.



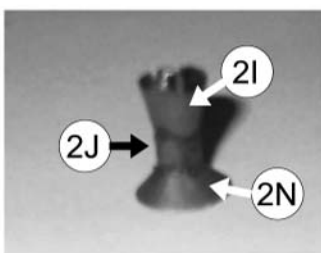
Cut out 2L and glue it to 2D. Place 2L between 2F.



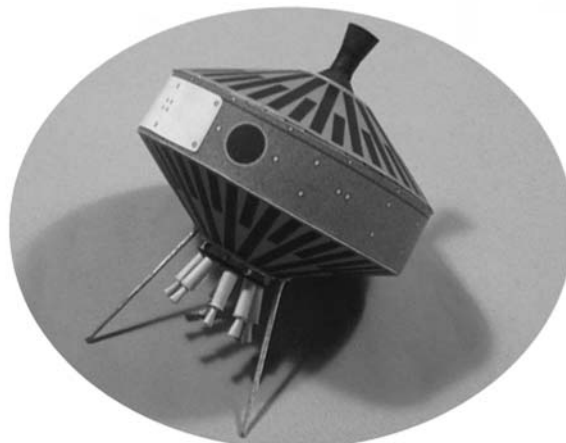
Glue 2J to 2K and roll to a tube.



Glue 2N and 2I to a cone.



Glue 2J to the top of 2N. Then glue 2I to the top of 2J.



Glue the nozzle to the top of the satellite.