



Instructions J2 Engine

This is the fifth part of what has to become a 1 : 48 scale Apollo / Saturn V model.

Please keep in mind that this model is by no means a “replica”, it is just build because I like to look at pictures of the real thing and to find out what is possible to “transfer” into paper.

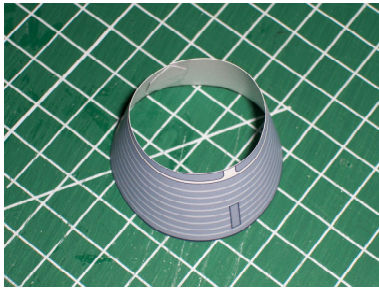
Print out the part sheets on 8.5"x11" or A4 size white paper card stock.

Have fun with this model, I know I did.

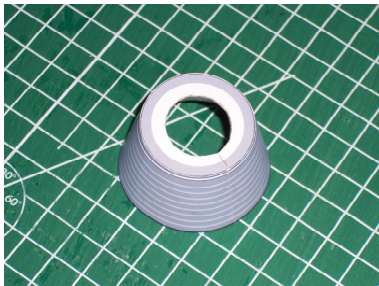
Greelt A. Peterusma

For any comments, suggestions, pictures of your builds or nice words you can contact me at:

saturn5@chello.nl

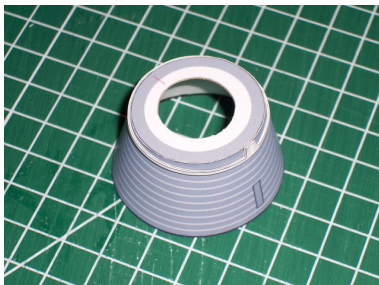


Cut out part #1, glue into a cone shape with tab #2.

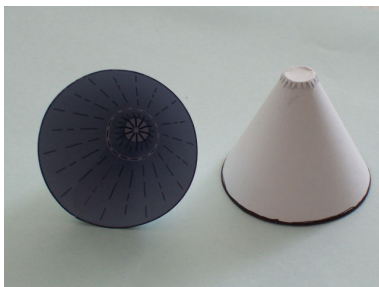


**Glue part #3 to thin cardboard.
When dry, cut out and glue inside cone #1 as shown.**

The red mark should align with the seam of part #1.

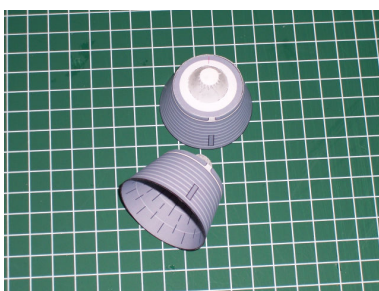


Cut out parts #18 and #19 and glue them around part #1.



**Cut out part #4 and roll into a cone with the printed side facing inwards.
Glue the cone with tab #5.**

Cut out part #6 and glue on top of cone #4, with the printed side facing inwards, aligning the printed pattern.



Glue cone #4 inside cone #1 as shown.

Make sure the seams of both parts are opposite of each other.

This is not something that must be done, but it looks better that way.



Glue parts #7, #8 and #9 together as shown, aligning the red line on all three parts.



Glue parts 10 (A – L), starting with part #10a, then part #10b etc.



When finished, it should look like this.



Glue parts #11 over the seams of parts #10 as shown.

Cut parts #11 when necessary to keep the center hole free.

For better result, color the edges of parts #11 black.

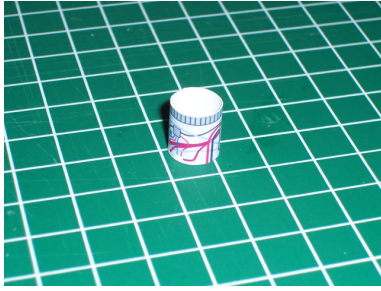


Glue the finished “ring” to the previously made cones.

Make sure part #10a aligns with the seam of part #1.



Cut out part #12 and glue into a cone with tab #13.



Cut out part #14 and glue into a cylinder with tab #15



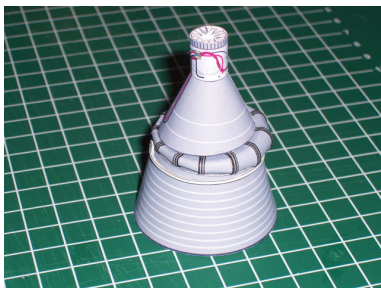
Glue part #14 to cone #12 aligning the pattern on both parts.



Glue part #16 into cone #12 aligning the red line on part #16 with the seam of cone #12.

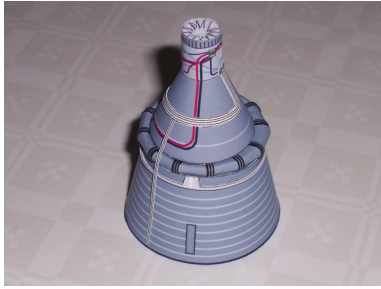


Glue part #17 into part #14 as shown.



Glue this assembly to the already finished parts as shown.

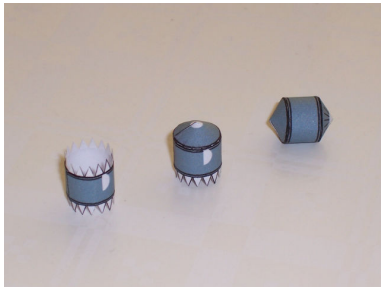
Make sure the seams of both cones are aligned.



Cut out part #20 and glue as shown.



Same part #20 from a different view.

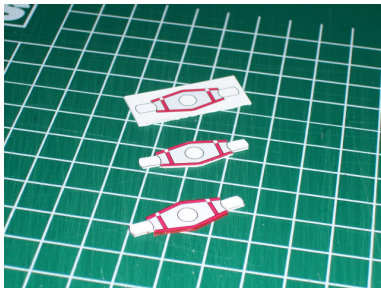


Cut out part #24 and glue into a cylinder with tab #25 as shown on the left on the photo. Cut out part #27 and glue to the cylinder. Take note of the position of the white gluing spot on the cylinder. Cut out part #26 and glue to the other side of the cylinder.

Same procedure for parts #28, #29, #30 and #31.

For a better result, color all edges of those parts (with the exception of parts #25 and #26) black.

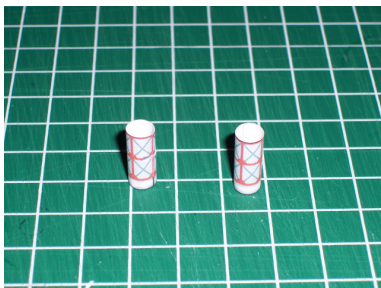
See sketch on part sheet #5 how to combine the various parts.



Cut out part #21 on the black outline, fold on the red line and glue.

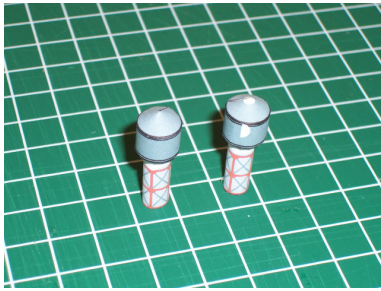
Cut out the part as shown.

Color the edge red as shown.



Cut out parts #22 and #23 and roll into a cylinder.

Please note that before rolling into a cylinder, you have to cut out the slots on both sides.



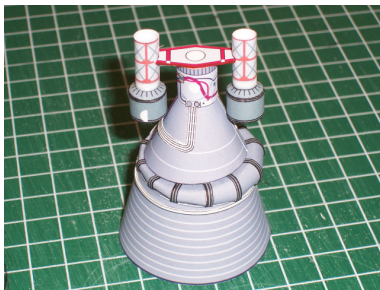
Glue together the various parts as shown.

See sketch on part sheet #5 how to combine those parts.



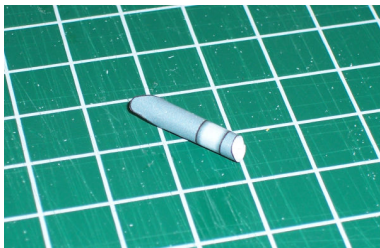
Glue together as shown, inserting the white tabs of part #21 into the slots of part #22 and 23.

Please note the orientation of part #21.

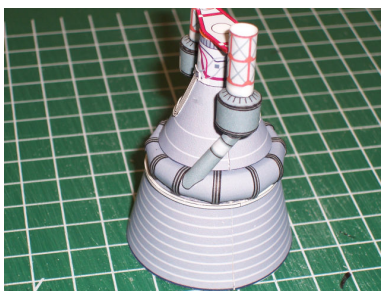


Glue the complete set to the upper cone as shown.

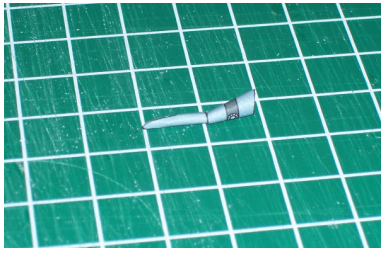
Once again look carefully at the orientation of the parts.



Roll part #34 into a tube.

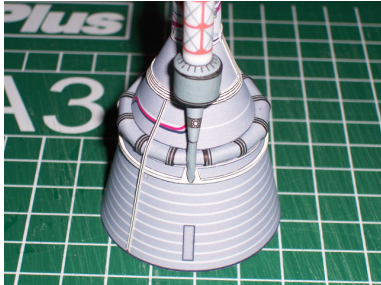


Glue part #34 into place as shown.

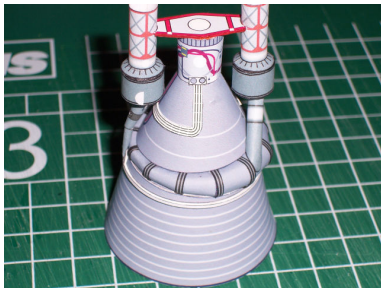


Roll parts #32 and #33 and glue together.

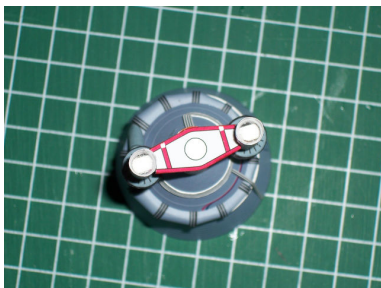
Tip : To glue those parts together, roll a tiny piece of scrap paper into a small tube and insert that in both parts.



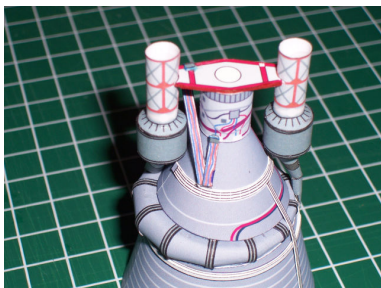
Glue those parts in place.



This is how far we got until now.

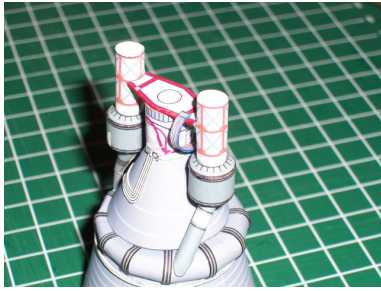


Top view.

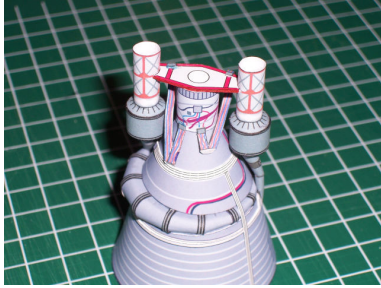


Cut out part #37, fold and glue together.

Glue part #37 in place as shown.

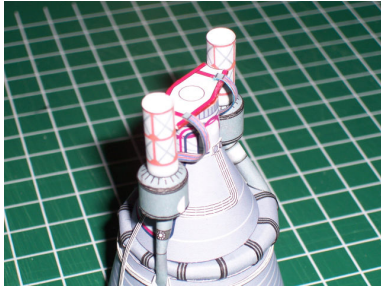


Same part #37 viewed from the other side.

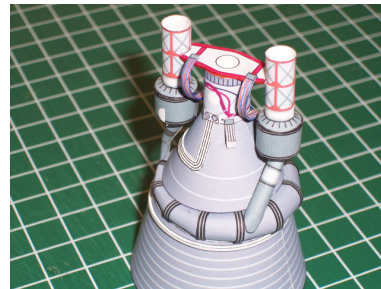


Cut out part #38, fold and glue together.

Glue part #38 in place as shown.

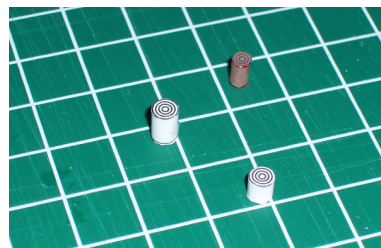


Same part #38 viewed from the other side.



Cut out part #48, fold and glue together.

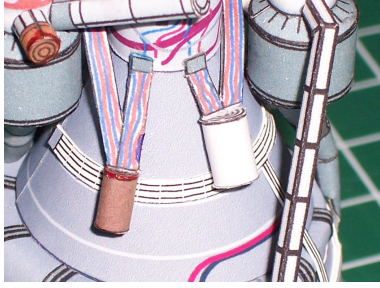
Glue part #48 in place as shown.



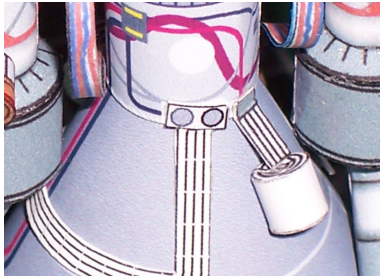
Roll part #39, #42 and #45 into a small cylinder.

Cover the ends of part #39 with part #40 and #41.
Cover the ends of part #42 with part #43 and #44.
Cover the ends of part #45 with part #46 and #47.

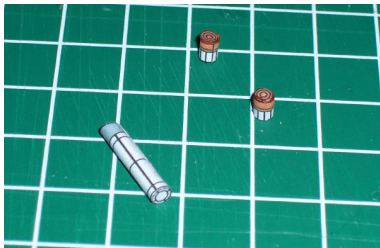
Note that the mark on part #41, #44 and #47 should line up with the seams of the cylinders.



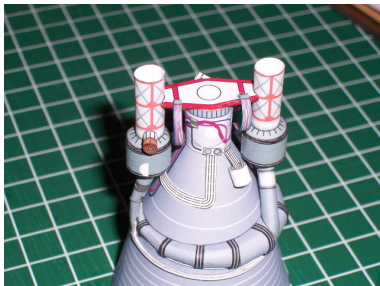
Glue part #39 and #42 in place as shown.



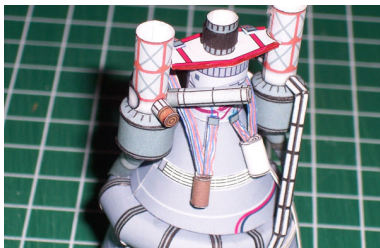
Glue part #45 in place as shown.



Proceed with parts #51, #52, 49 and #50 as shown.



Glue one part# 51 in place as shown.



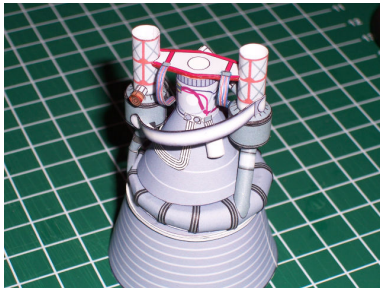
Glue the second part# 51 and part #50 in place.



Score part #53 between the red lines.

Cut out part#53 and #54.

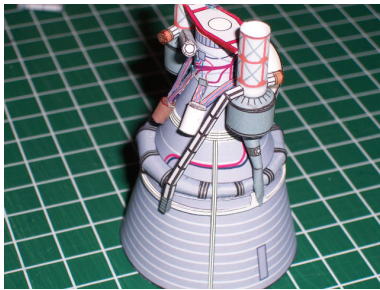
Glue part #53 around part #54, starting at the fold in part #53.



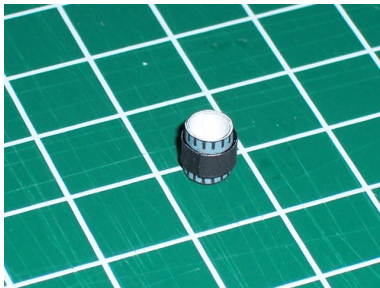
Glue part #53 in place.



Cut out part #55, fold and glue together.

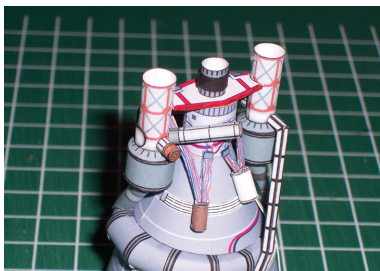


Glue part #55 in position.

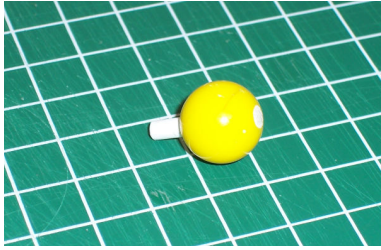


Glue part #35 into a small cylinder.

Cut out part #36, color the edges black, and glue around the white area of part #35

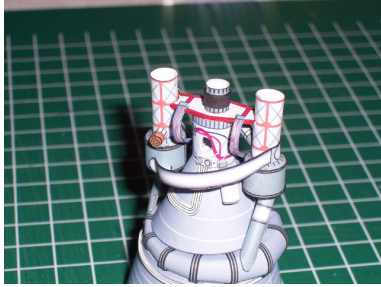


Glue part #35 in position.

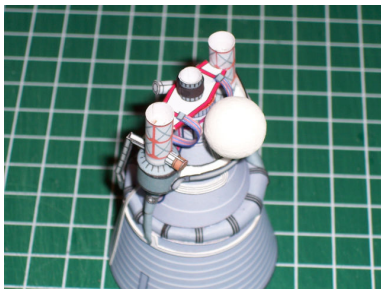


For the Start tank I used a bead of approximately 13 mm in diameter, which I (permanently) borrowed from my granddaughter.

I painted the bead white.



I made a hole in the white spot of part #14 and put the bead in place.



The final result.

Please note that the part sheets contain parts for six J2 engines, 5 of them for stage 2 and 1 for stage 3.