

DELTA II

Delta 7925 298
 Launcher of the Mars rover MER-A
"Spirit"

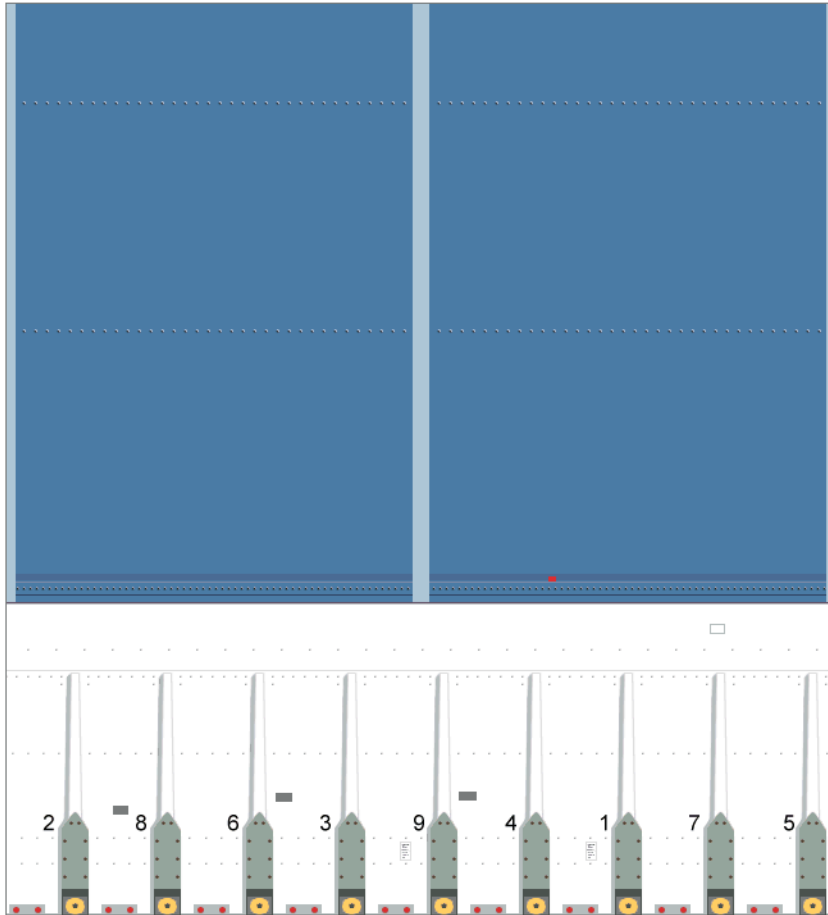


MARS Exploration
 Rover - A



Special Edition
Superdetailed model.

Extra Large Scale 1:72
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Part A

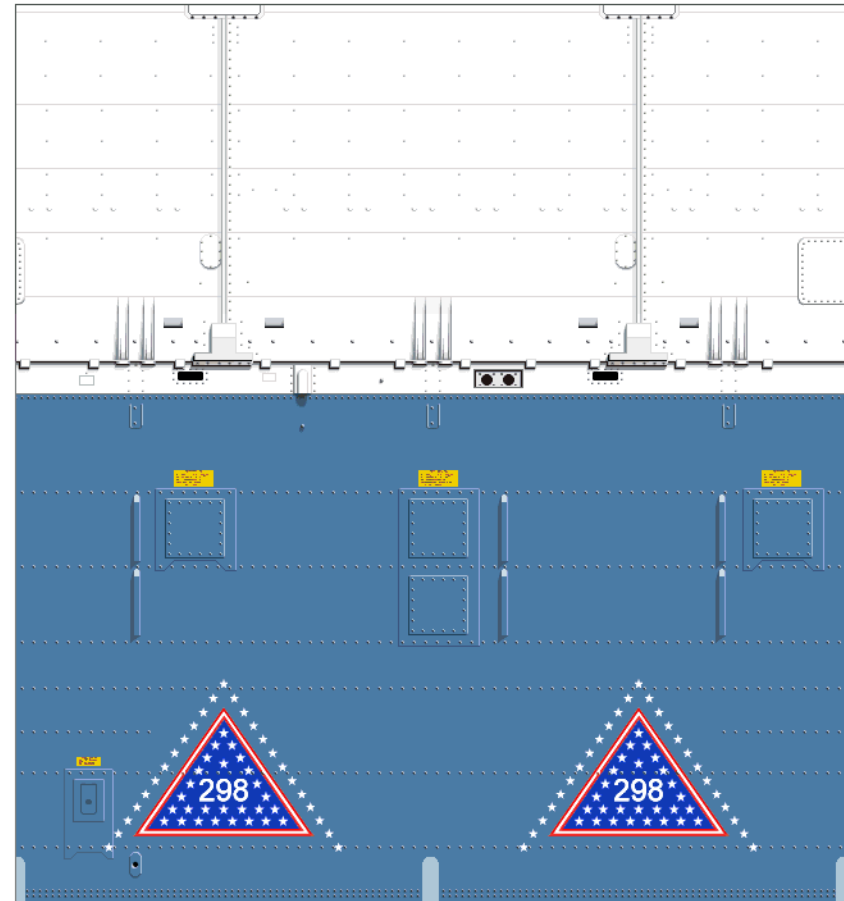
Note from the designer: Over time, McDonnell Douglas and Boeing have changed the color of their rockets, slightly. That's why not all of my blue Delta's will have the same color blue. The color of this rocket will slightly differ from other Delta's. The first blue Delta's were a greenish-greyish blue. The blue became brighter and more vivid as time went by. I tried to render the correct color as accurately as possible, however, the type of paper and printer ink used by the builder may influence the result quite a bit.

Paper model version by E. te Groen. For the Public Observatory Philippus Lansbergen, Netherlands.

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(c) 2003



Part D

1 cm

1 inch

printing calibration

1 cm
 1 inch

DELTA II

Delta 7925 298

Launcher of the Mars rover MER-A

"Spirit"



MARS Exploration
Rover - A

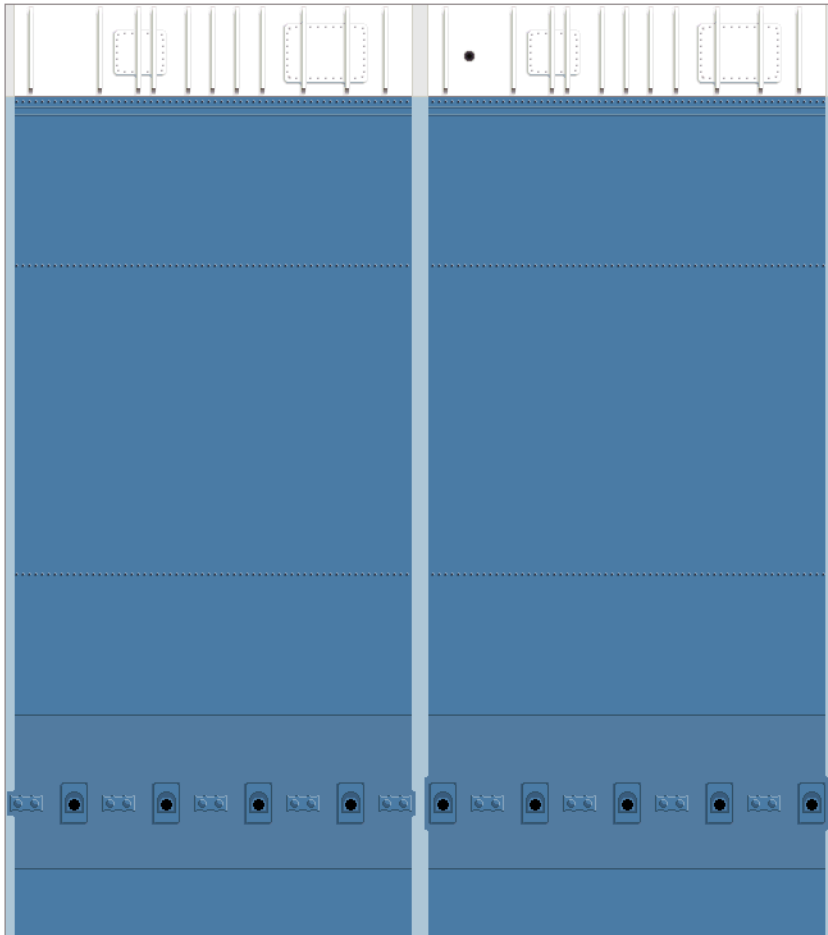


Special Edition

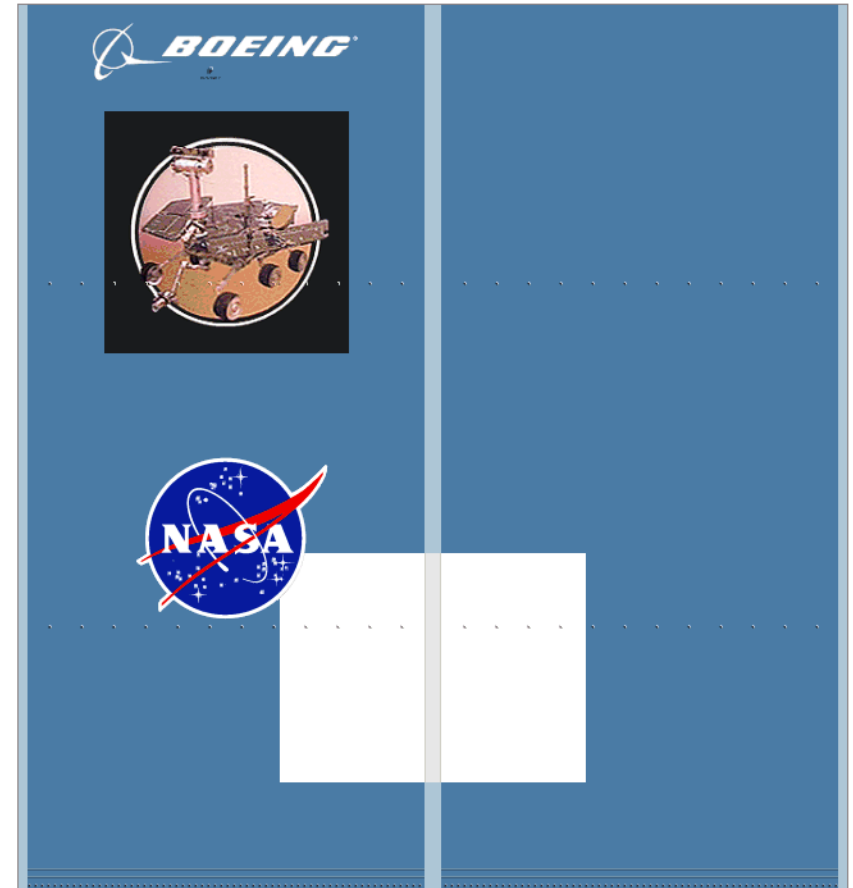
Superdetailed model.

Extra Large Scale 1:72

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Part B



Part C

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1 cm
1 inch
printing calibration

1 cm
1 inch

DELTA II

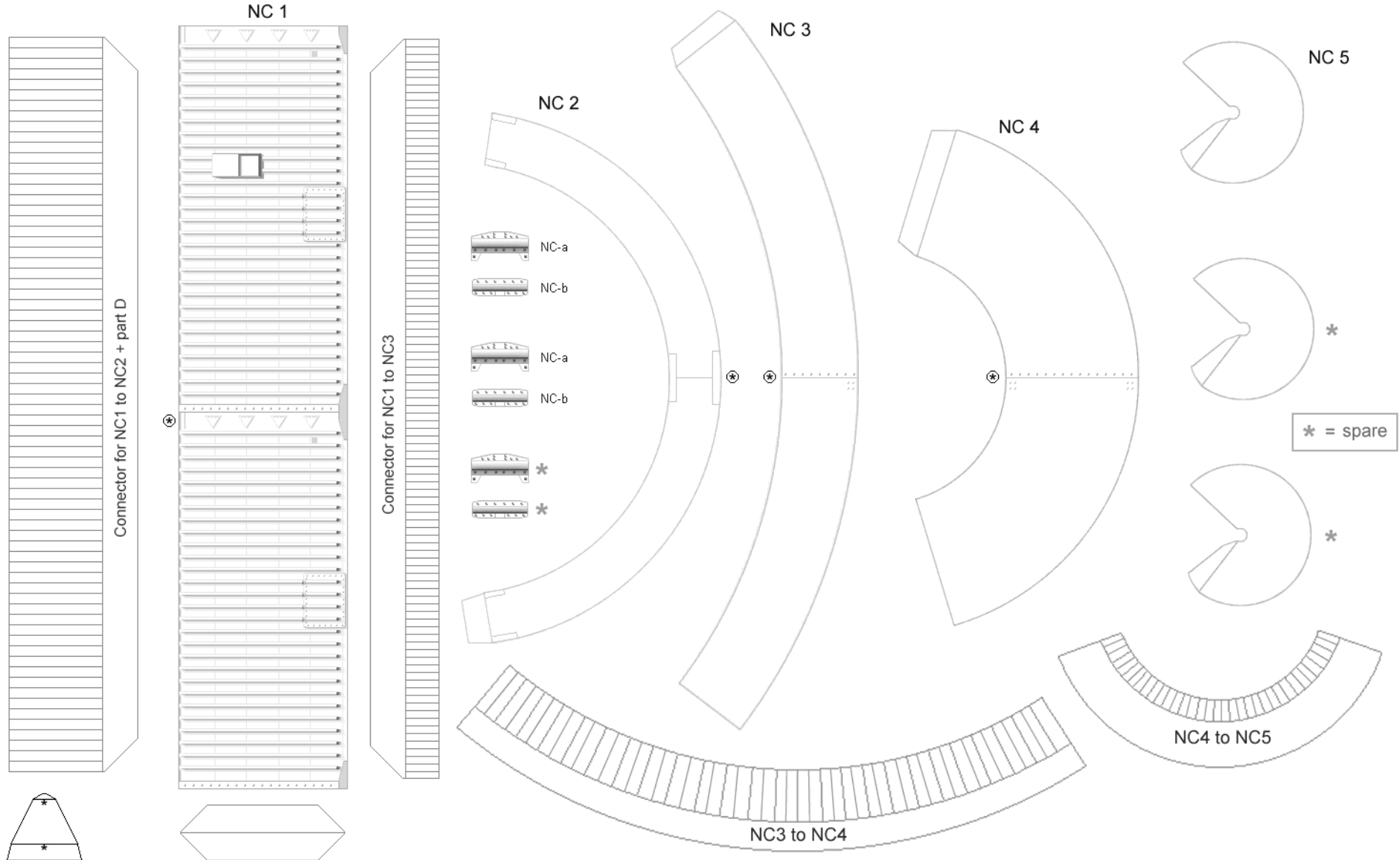
Delta 7925 298



Special Edition
Superdetailed model.

Extra Large Scale 1:72

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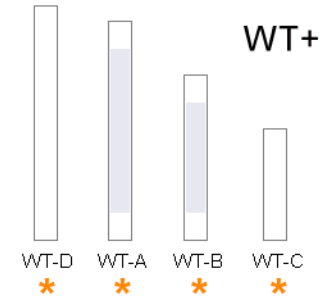
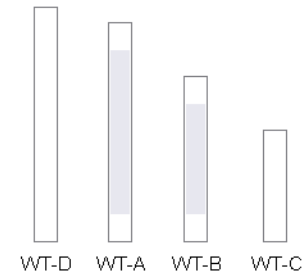
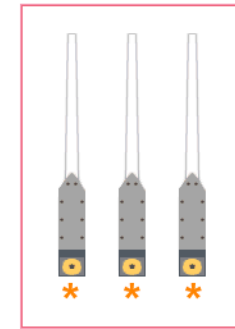
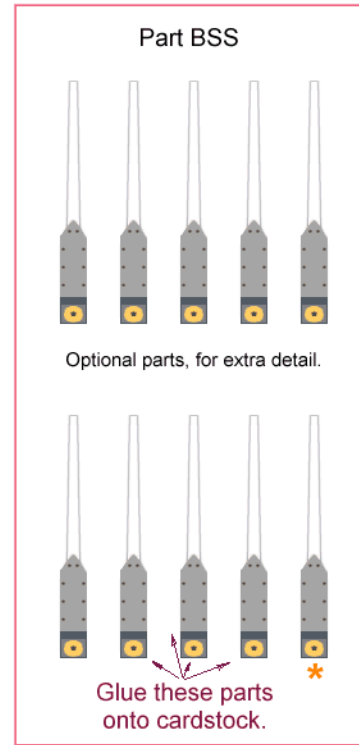
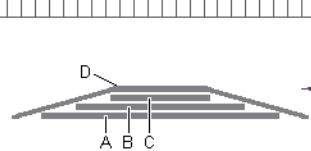
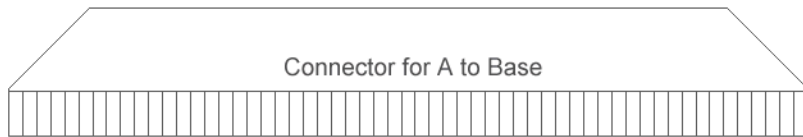
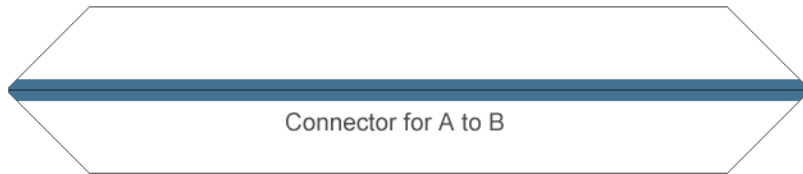
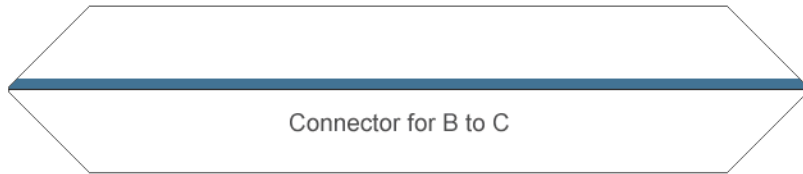
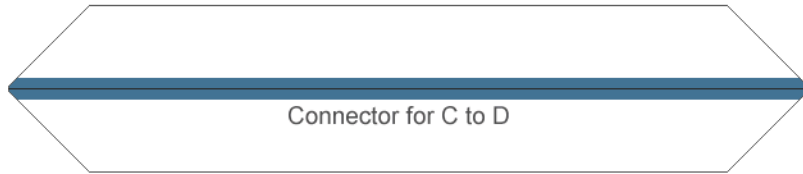


Paper model version by E. te Groen. For the Public Observatory Philippus Lansbergen, Netherlands.

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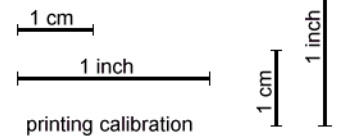
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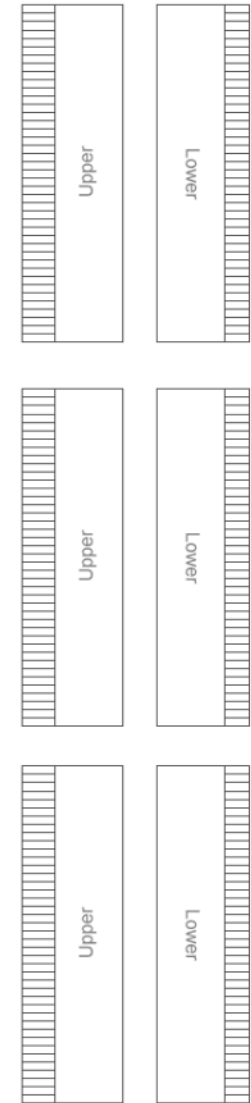
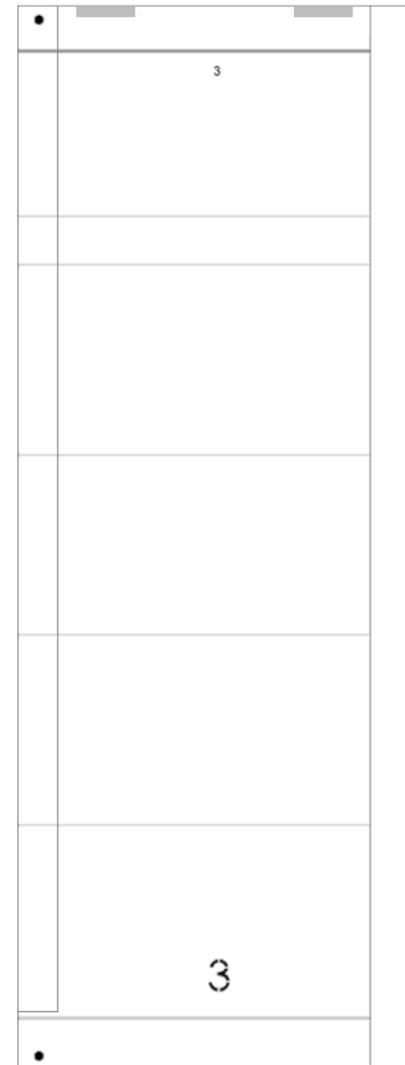
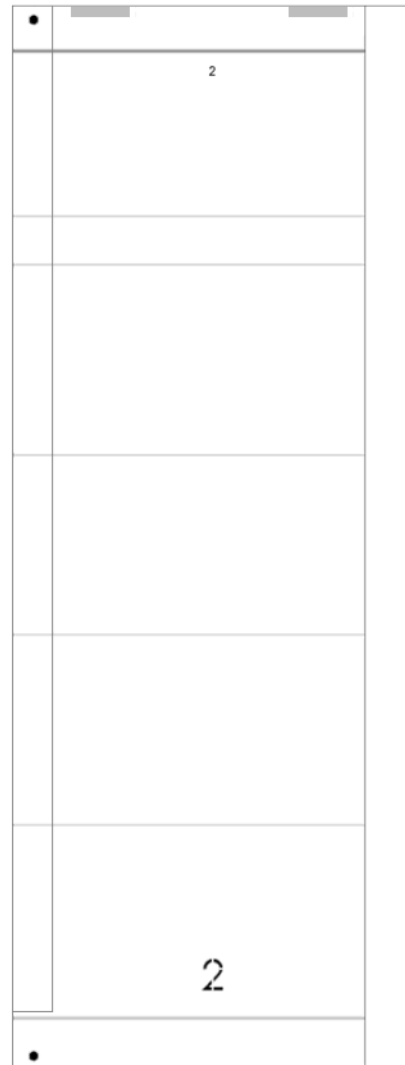
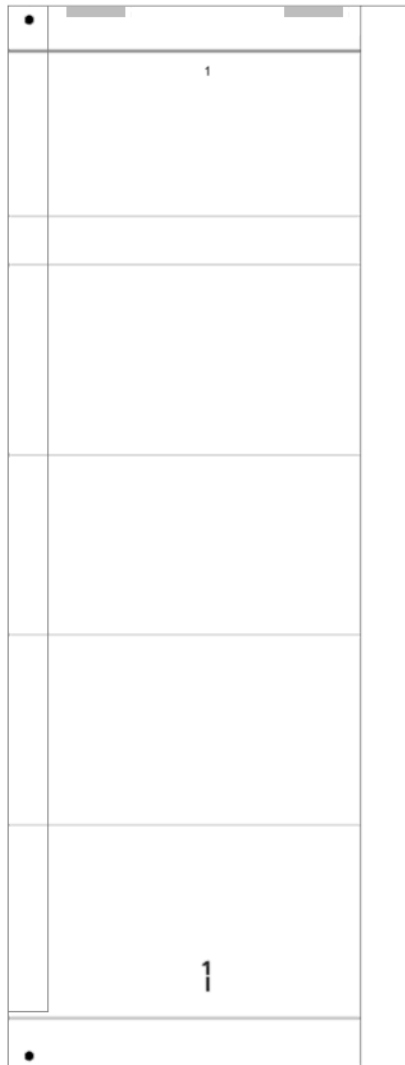
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WT+

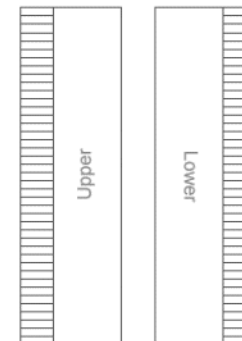
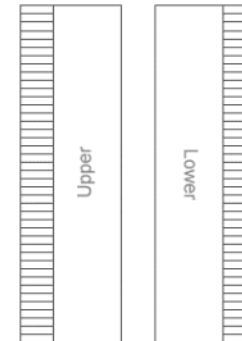
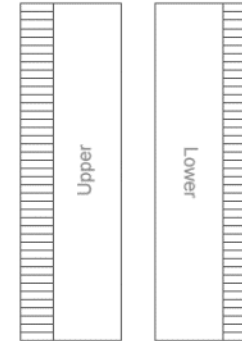
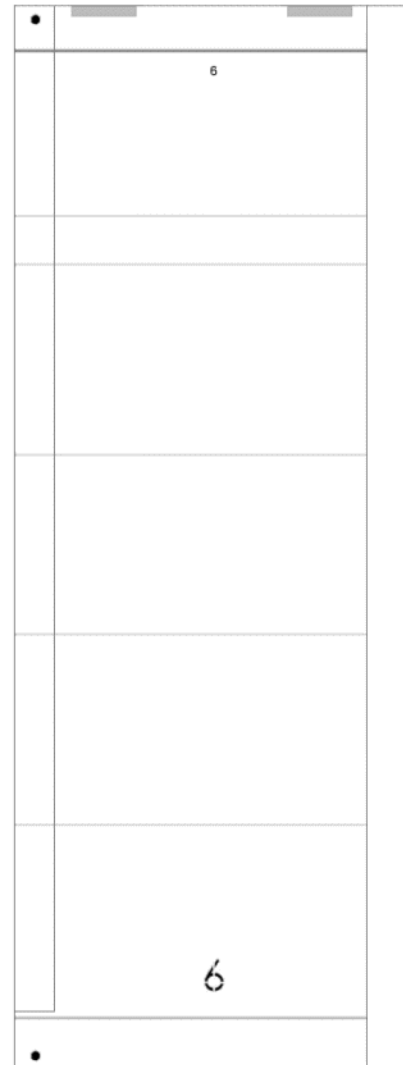
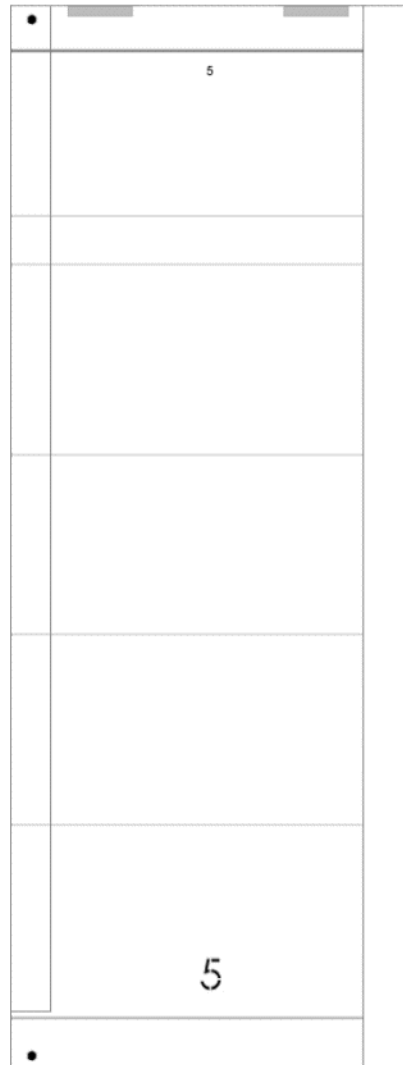
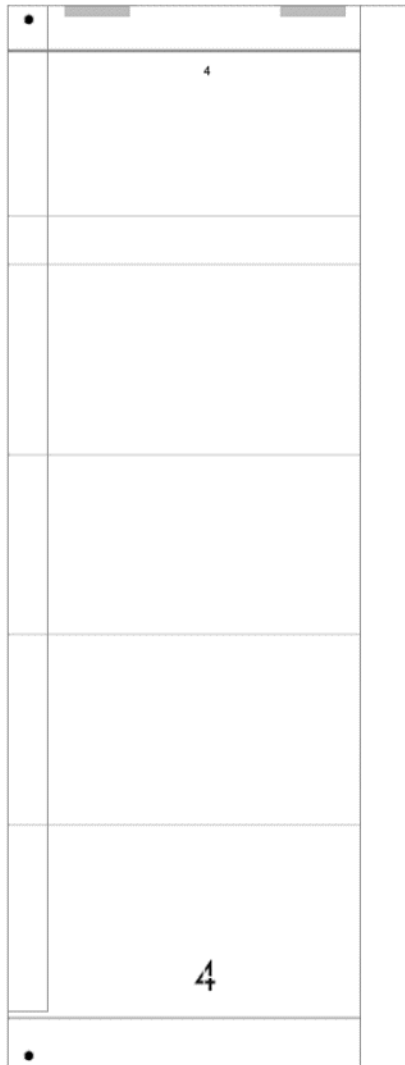
* = spare

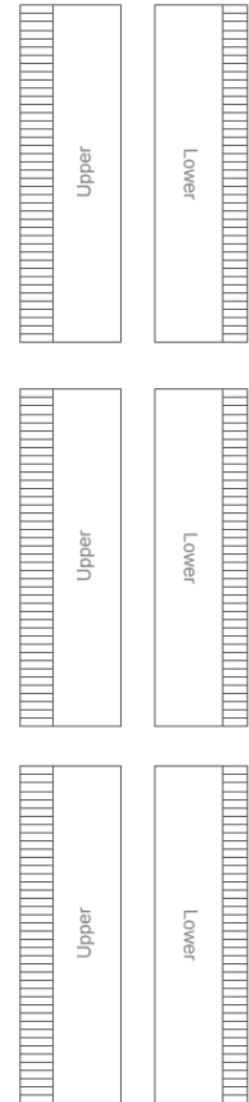
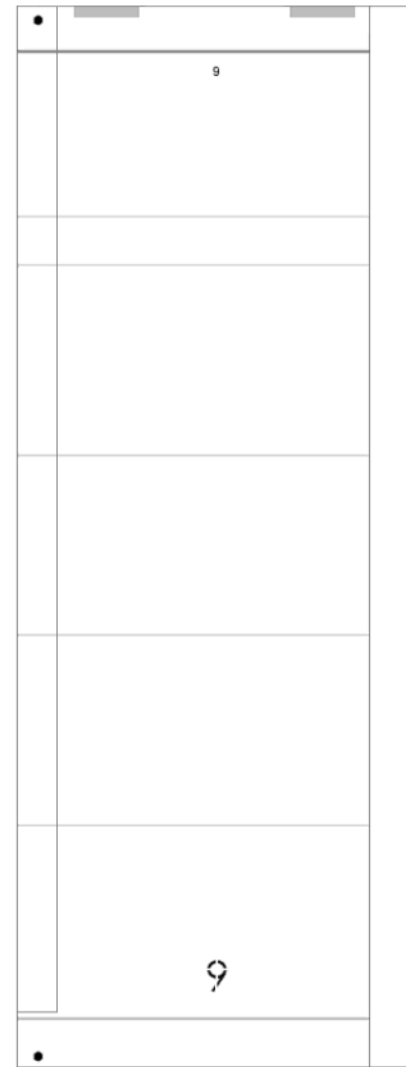
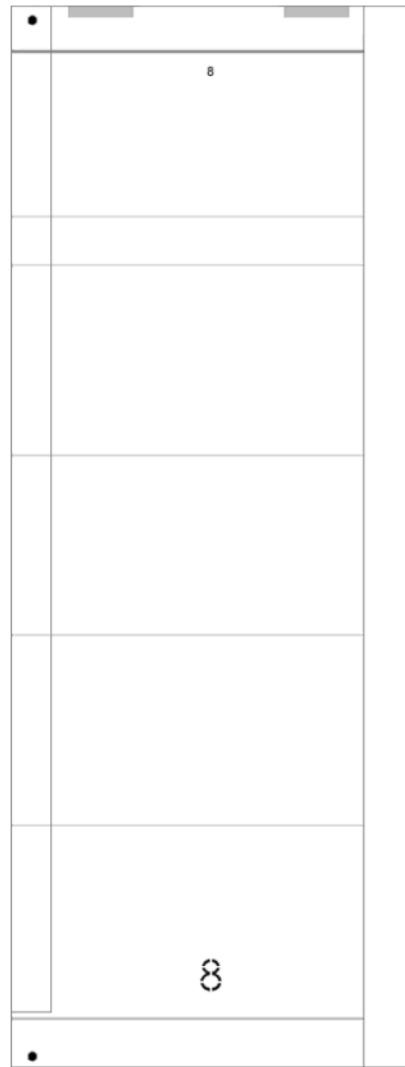
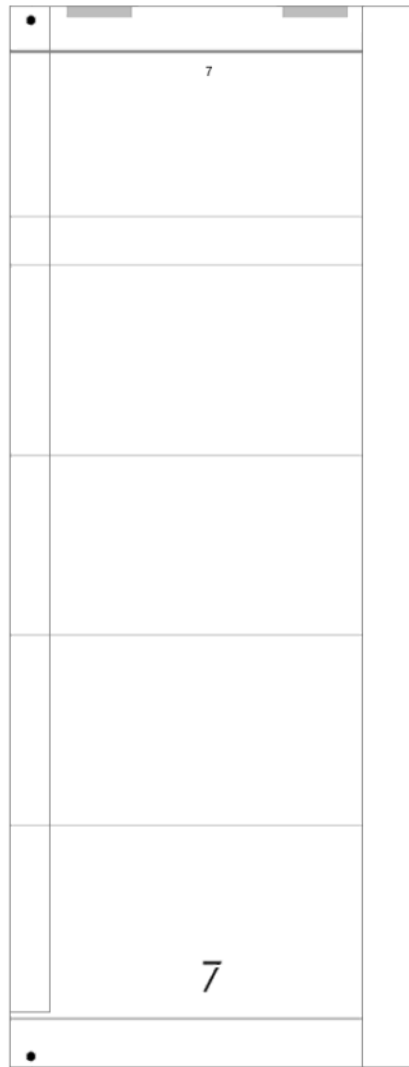


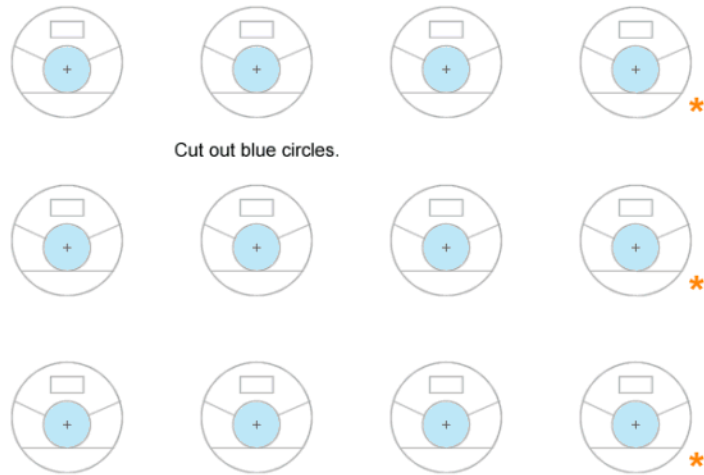




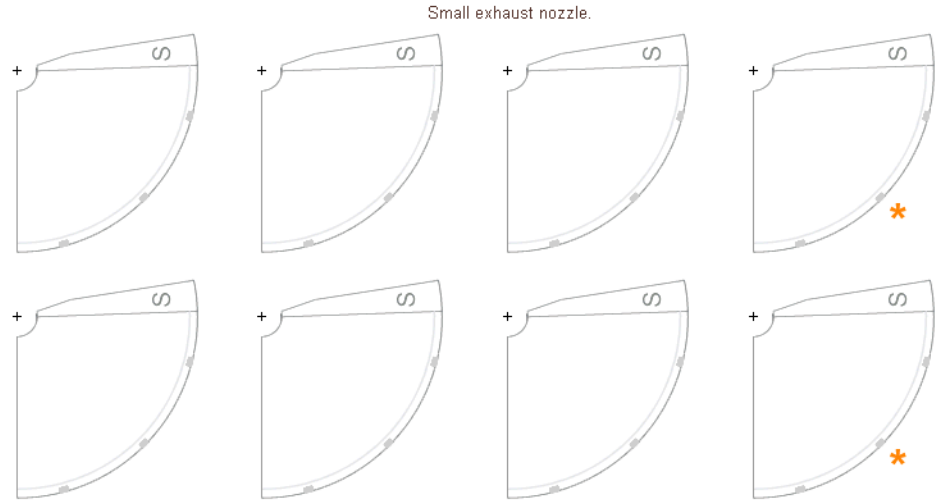
Boosters number 4, 5 and 6 have the large booster exhausts (marked with " L ")





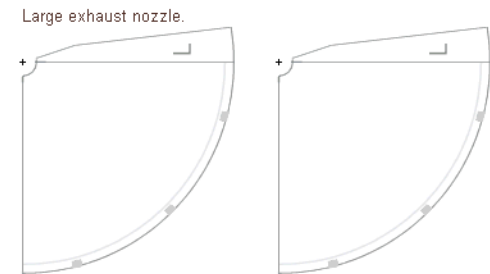
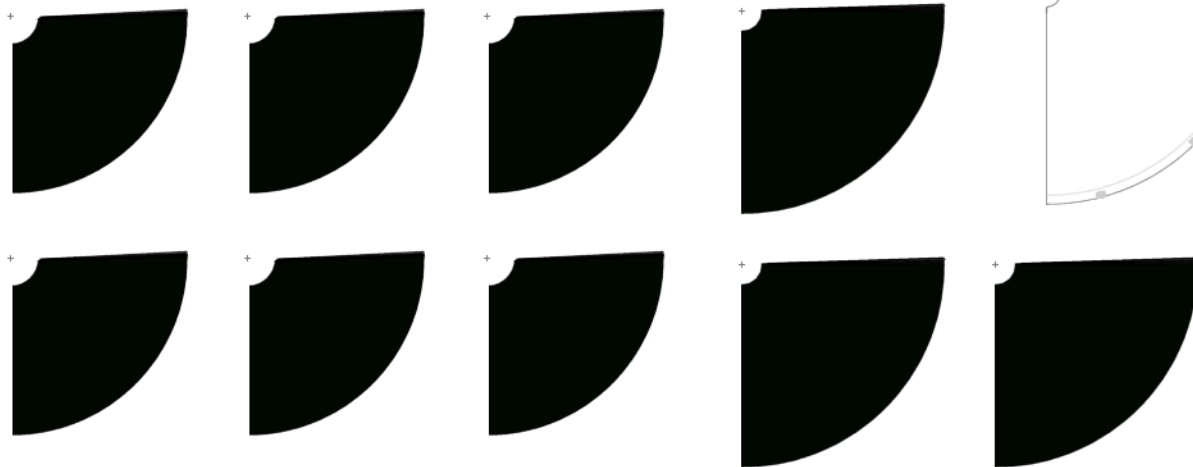


Cut out blue circles.



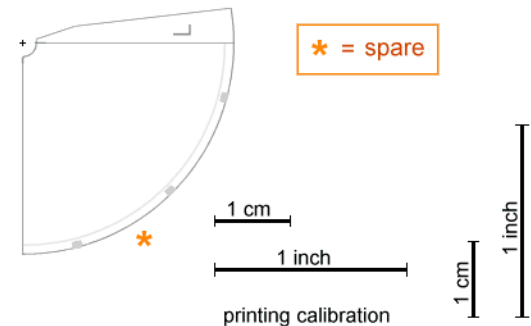
Small exhaust nozzle.

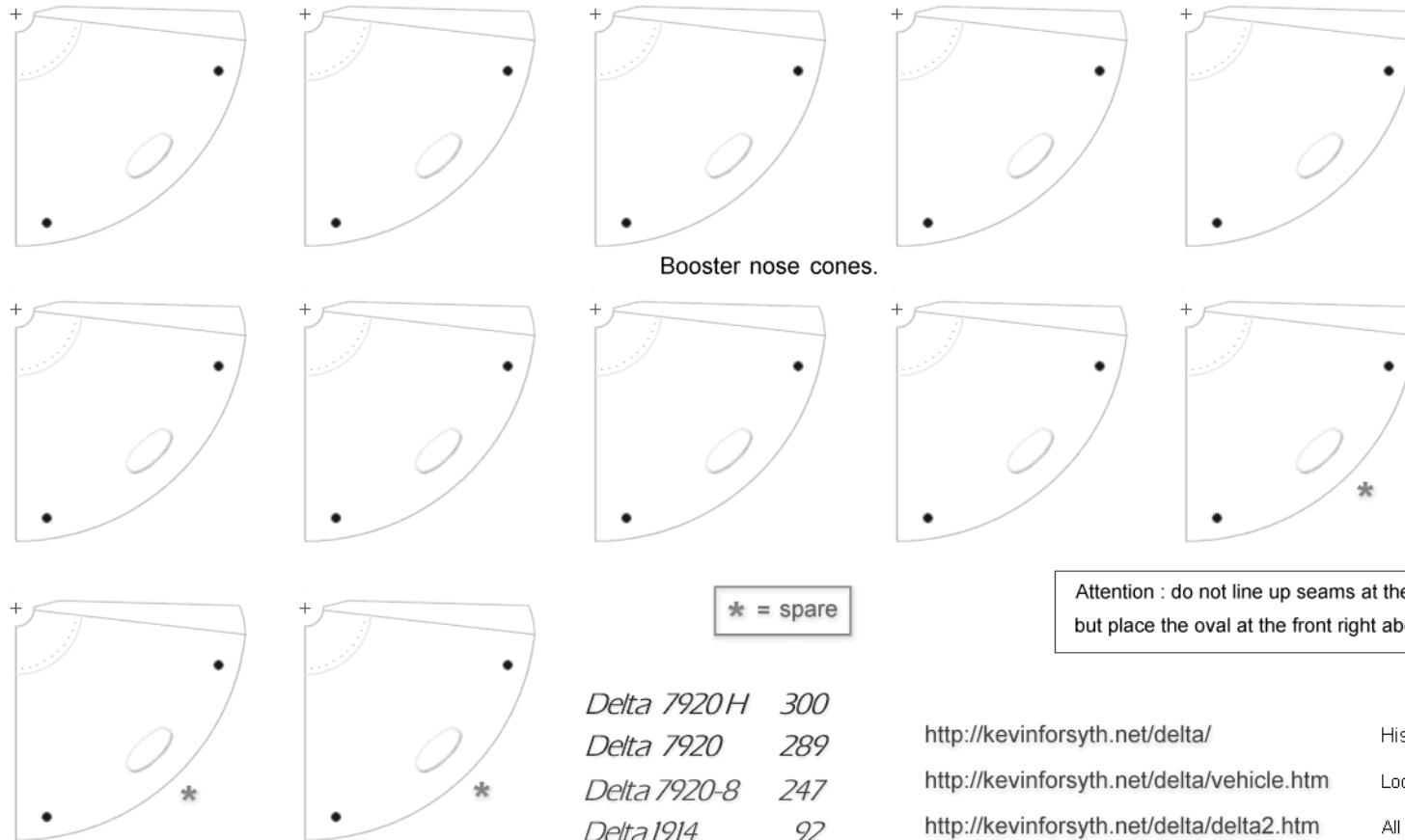
* = spare



Large exhaust nozzle.

* = spare





Booster nose cones.

Note the correct alignment.



* = spare

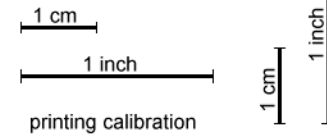
Attention : do not line up seams at the back, as usual,
 but place the oval at the front right above the booster number !

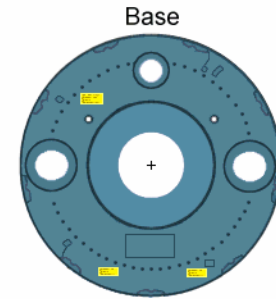
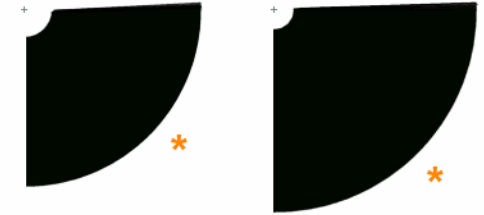
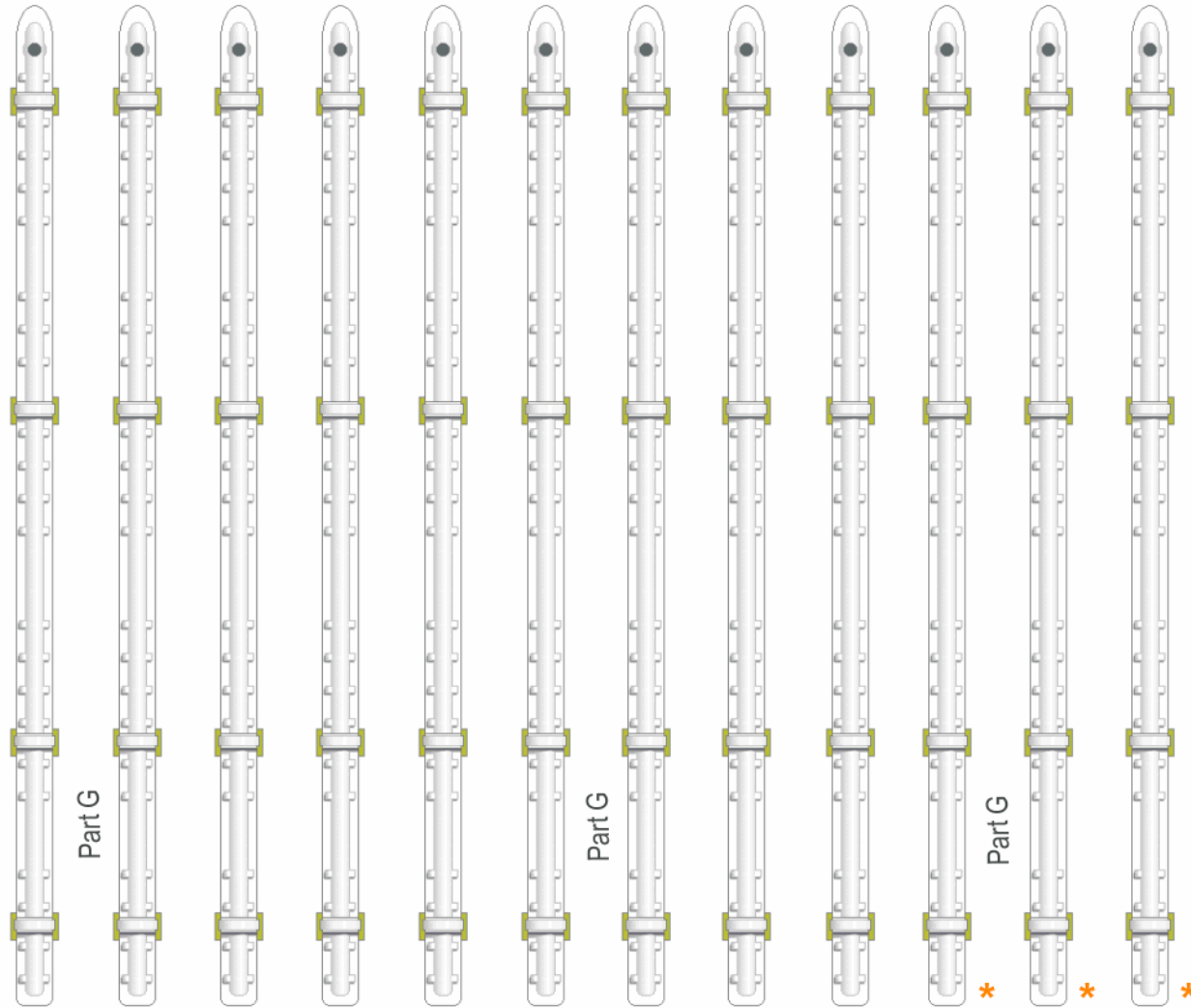
* = spare

<i>Delta 7920 H</i>	<i>300</i>
<i>Delta 7920</i>	<i>289</i>
<i>Delta 7920-8</i>	<i>247</i>
<i>Delta 1914</i>	<i>92</i>
<i>Delta 8930</i>	
<i>Delta 7320-10 C</i>	<i>271</i>

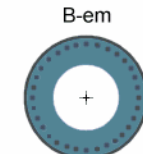
- <http://kevinforsyth.net/delta/> History of the Delta Launch Vehicle.
- <http://kevinforsyth.net/delta/vehicle.htm> Look here for the vehicle descriptions.
- <http://kevinforsyth.net/delta/delta2.htm> All launches so far.
- <http://kevinforsyth.net/delta/schedule.htm> Upcoming launches.

Did you ever wonder what these numbers mean ?
 Check out Kevin Forsyth's great website !



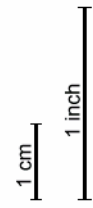
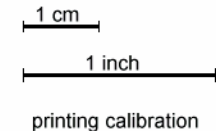


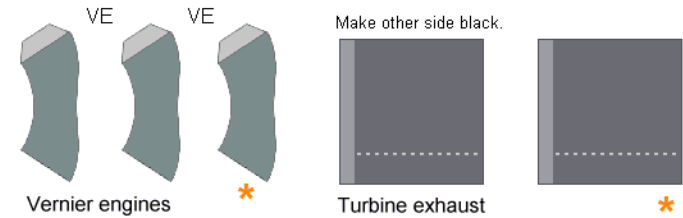
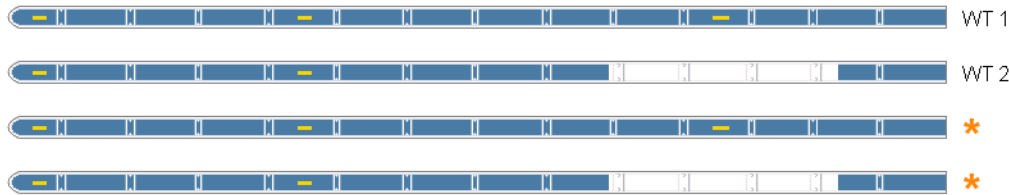
First, glue this part onto same paper it has been printed on. Then cut out white circles.



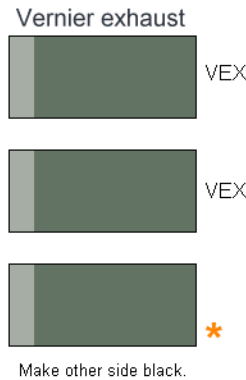
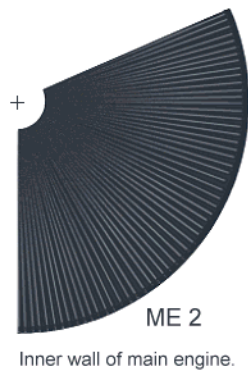
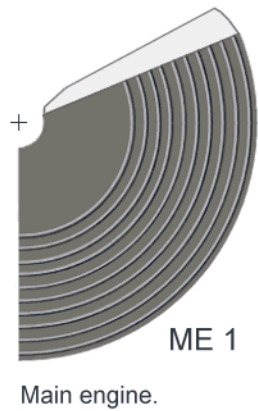
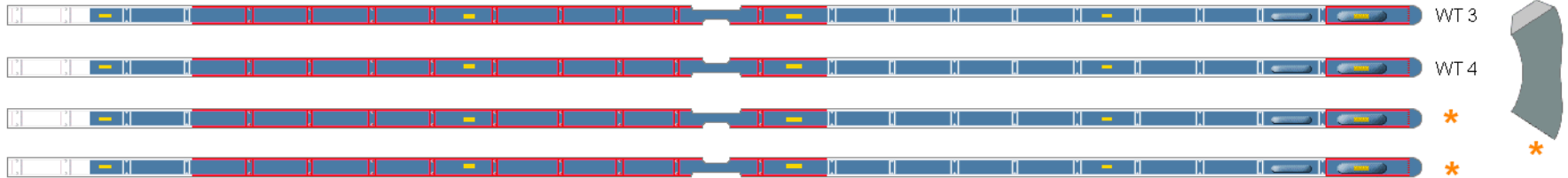
Glue onto cardstock. Cut out white circle. Make edge blue.

* = spare





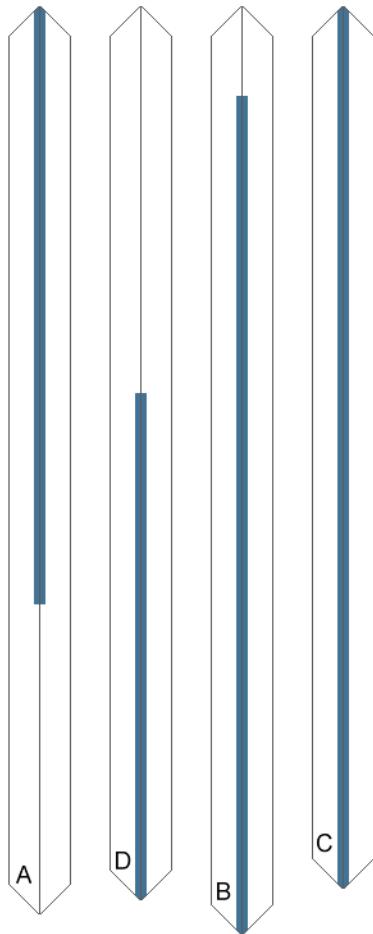
Wiring tunnels



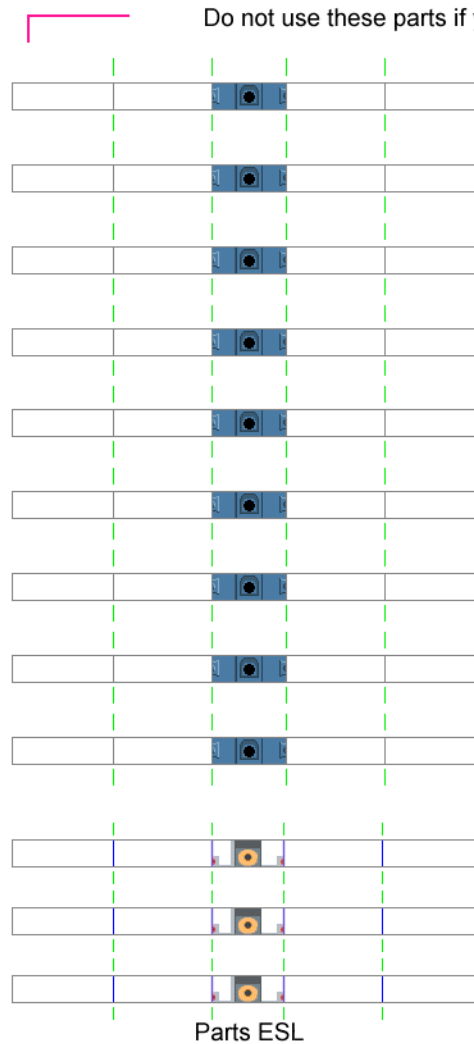
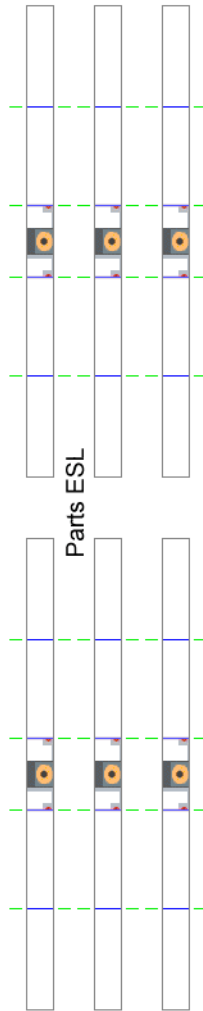
* = spare

TIP :

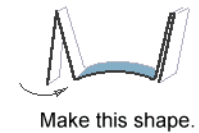
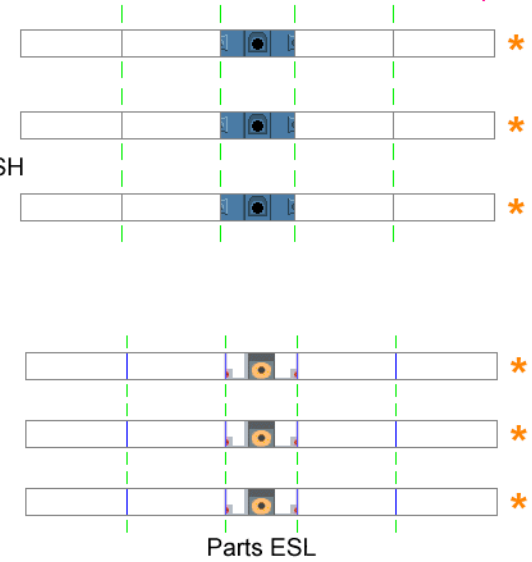
US letter and A4 paper sizes are almost identical.
 USL = 216mm x 279mm, A4 = 210mm x 297mm.
 This model will fit on either format, so use whichever you like. Uncheck the option "fit to page".
 If the option is checked, the prints will be very similar in Acrobat 3, 4 and 5. When using AR 6 the print may turn out just a bit smaller.
 If an accurate scale is wanted, please make a testprint and measure the ruler provided on the drawings, and make the necessary adjustments, if necessary.



Connectors for parts A - B - C - D.



Parts ESH

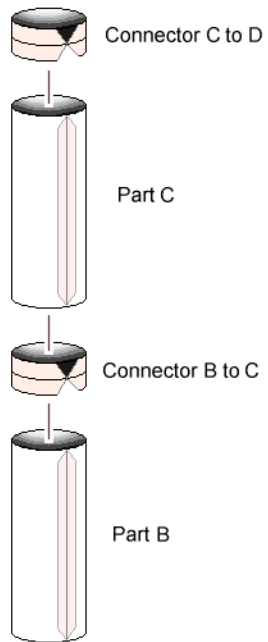


If extra detailing, such as these ejector springs, is not wanted, they may be left away and only a toothpick or similar wooden (or plastic) rod may be used.
 Assembly of the boosters and their ejector springs is not easy and should be done accurately and with care. Be patient and take your time.

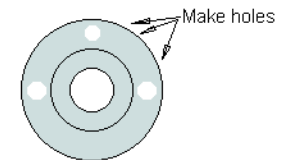
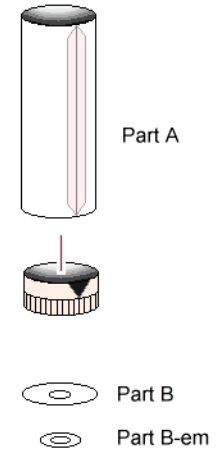
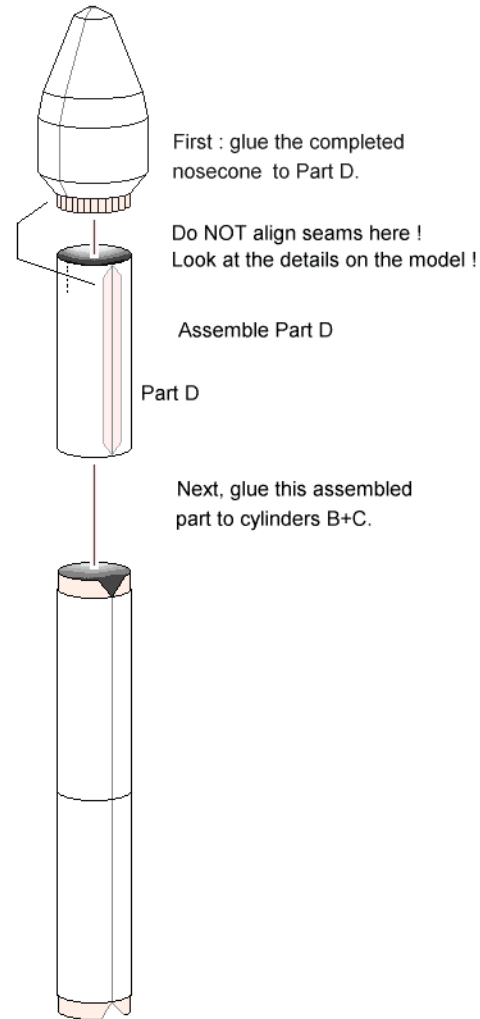
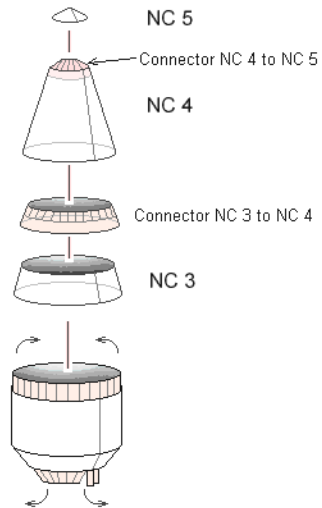
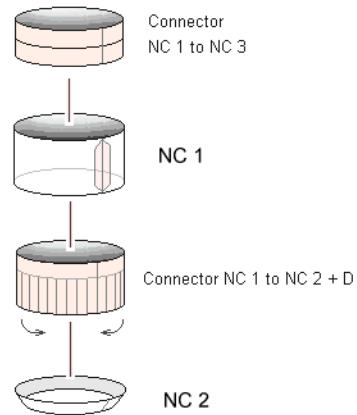
* = spare

Instructions for building the Delta rocket.

Fuel tanks



Payload fairing

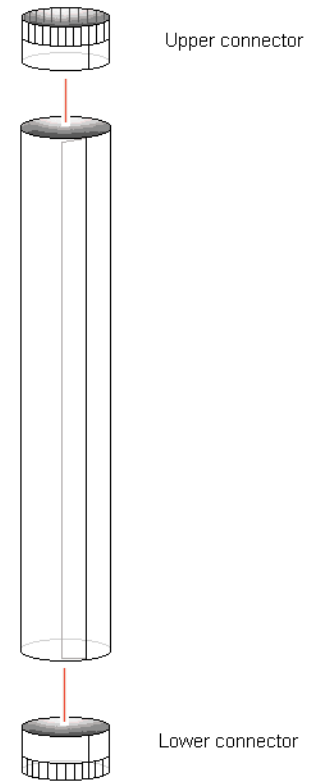
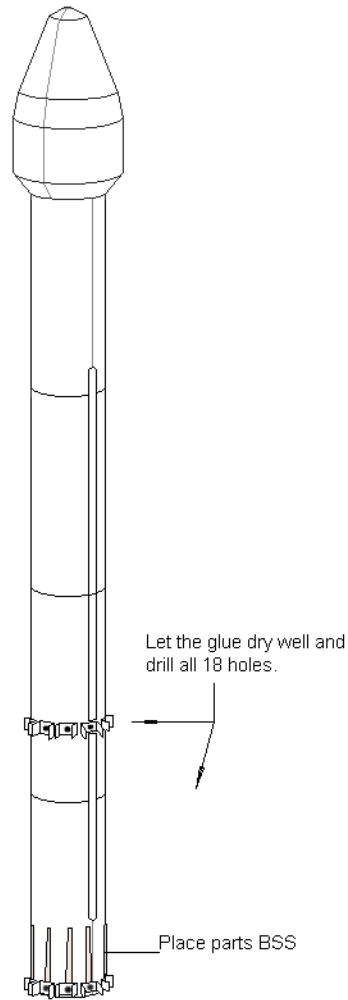
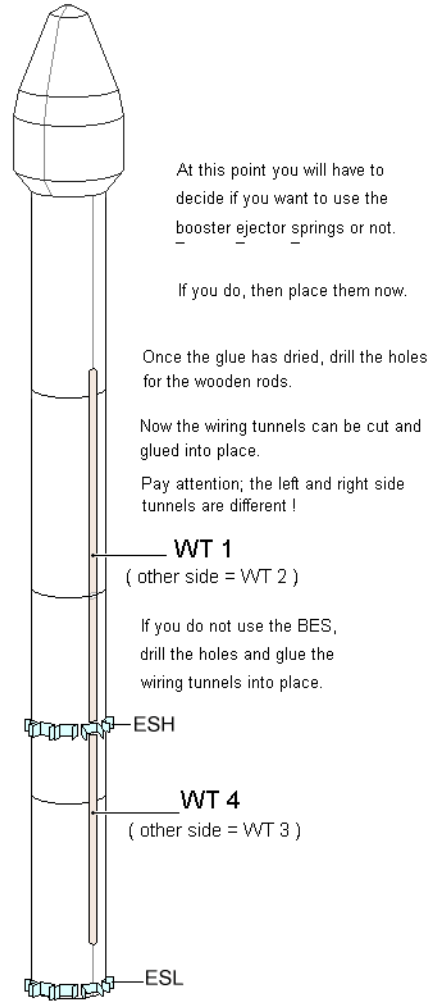
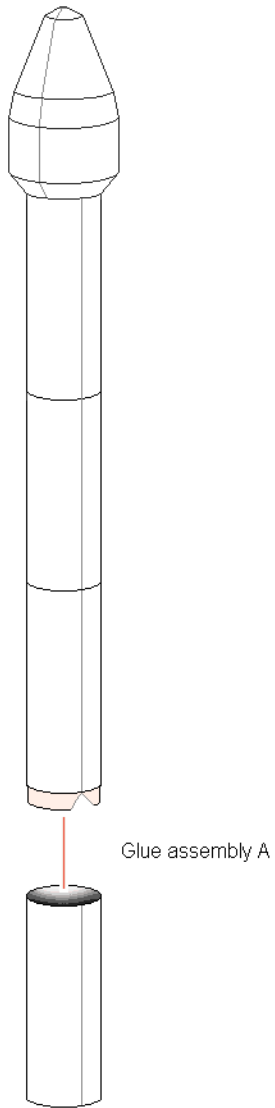


See other instruction sheet on how to assemble these parts.

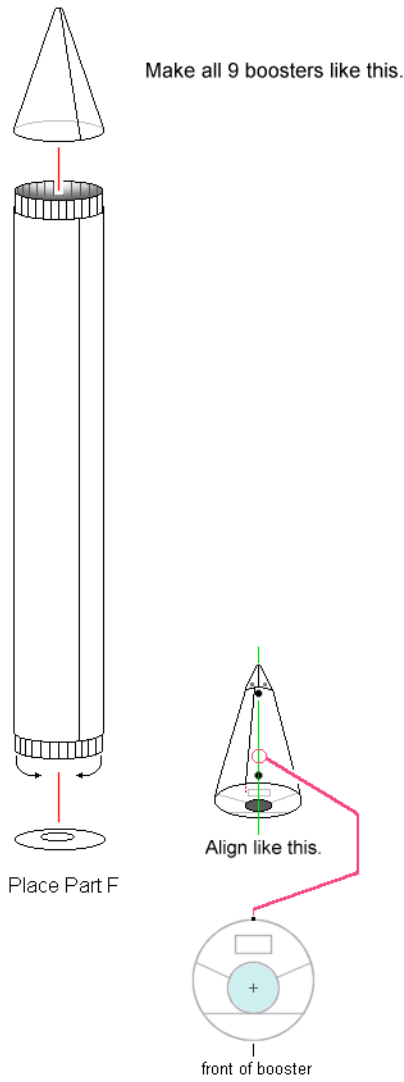
Instructions for building the Delta rocket.

Time to make the boosters.

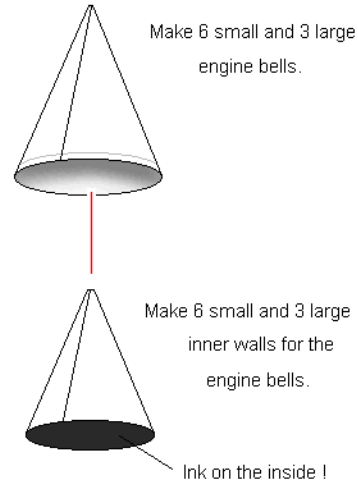
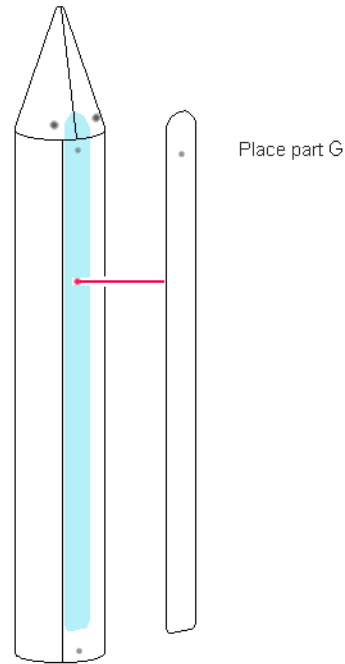
Make all 9 boosters like this.



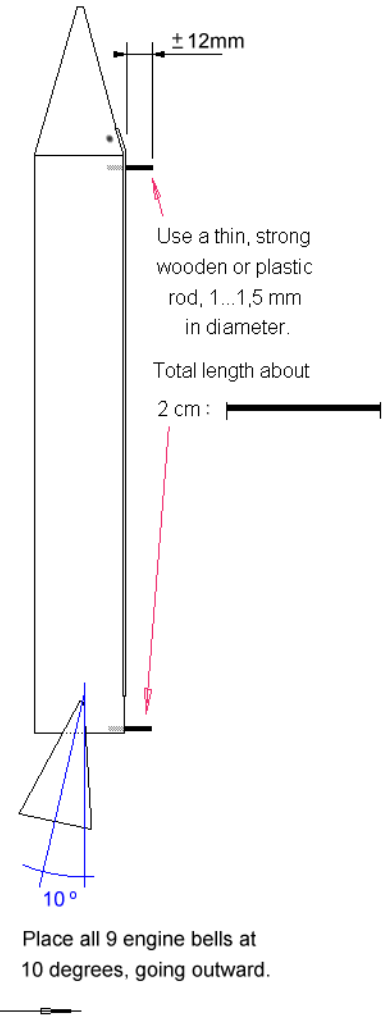
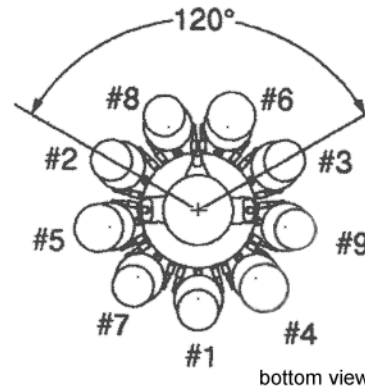
Instructions for building the Delta rocket.



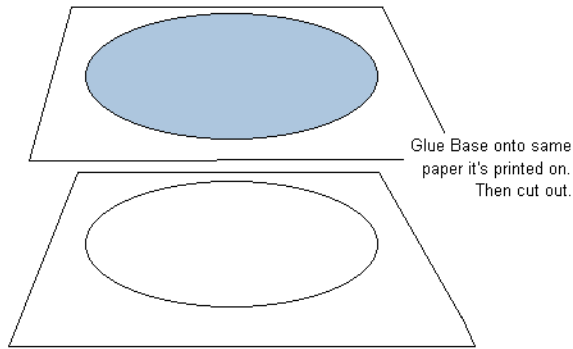
Note the correct placement of Part F !



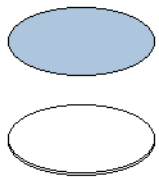
Boosters 4, 5 and 6 have the large engine bell, the others have the small one.



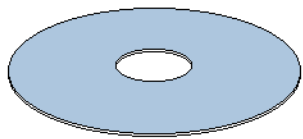
Instructions for building the Delta rocket.



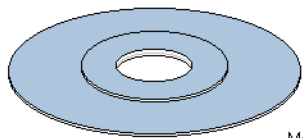
Glue Base onto same paper it's printed on. Then cut out.



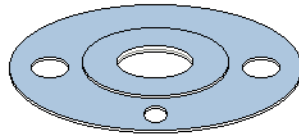
Glue part B-em onto cardstock. Make rim blue.



Make a nice round hole.

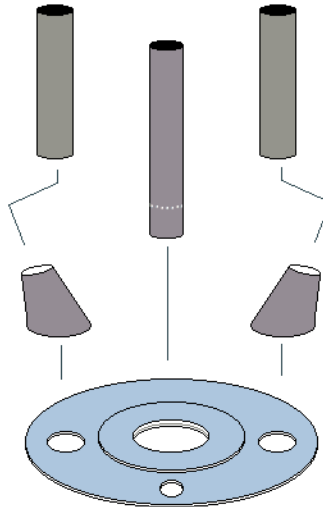


Make hole in part B B-em, then glue onto Base.

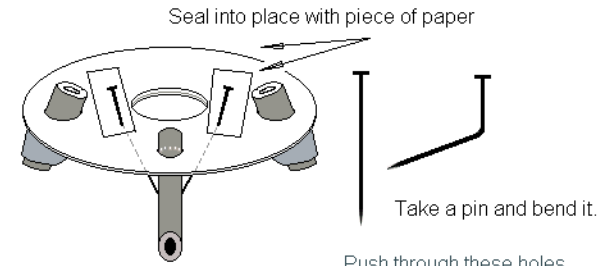


Make the other 3 holes. Make then oval, not round !

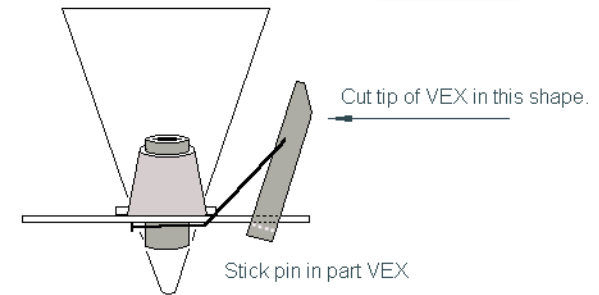
Make inside black. Roll up, begin here.



First glue parts VE into place, then insert part VEX.

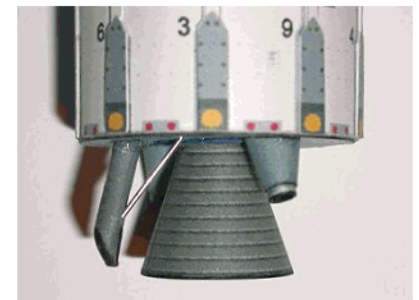
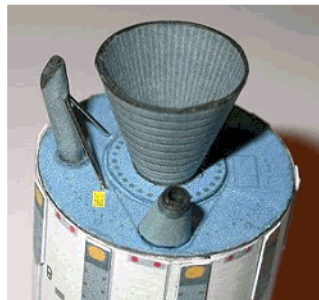


Push through these holes.



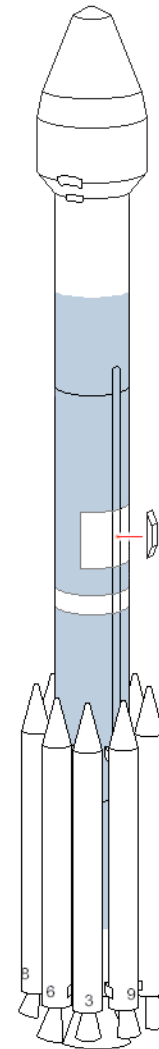
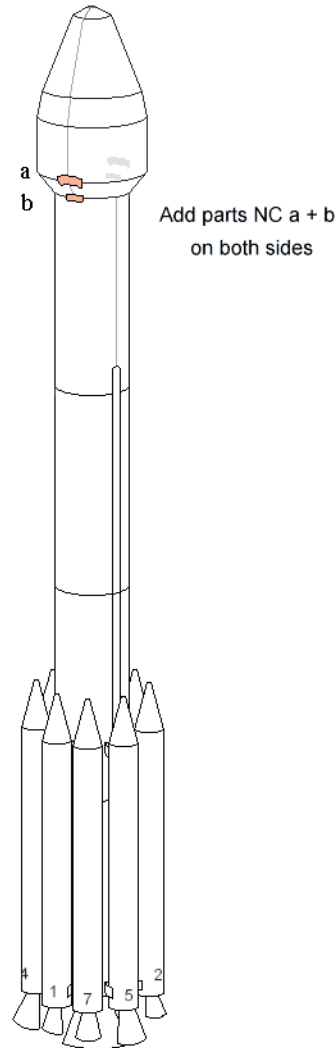
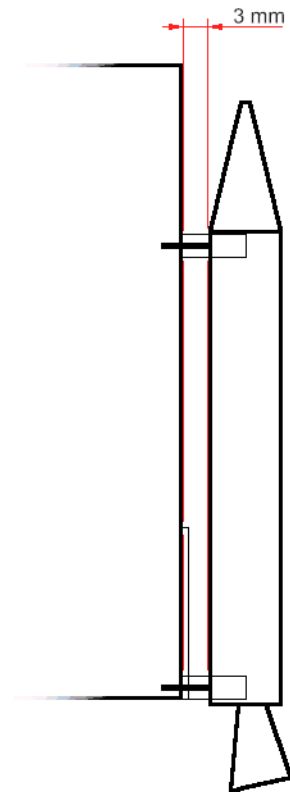
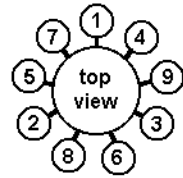
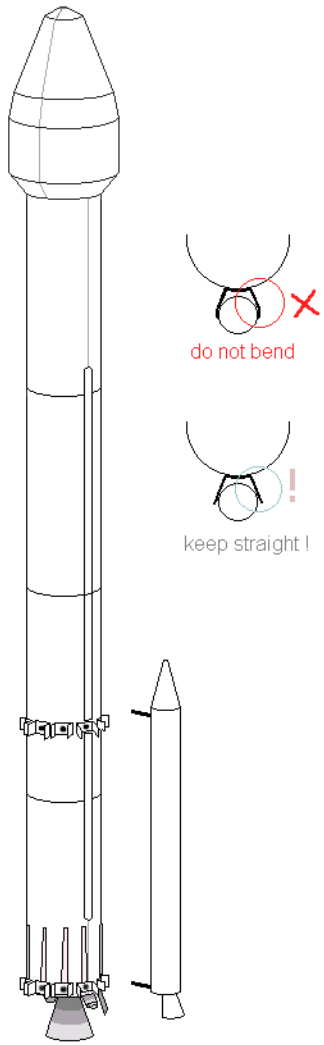
Cut tip of VEX in this shape.

Stick pin in part VEX



Instructions for building the Delta rocket.

Glue all 9 boosters into place.



The last part to be added :
WT+

Congratulations !

You have finished this
Delta rocket, a milestone
in spacetravel.