

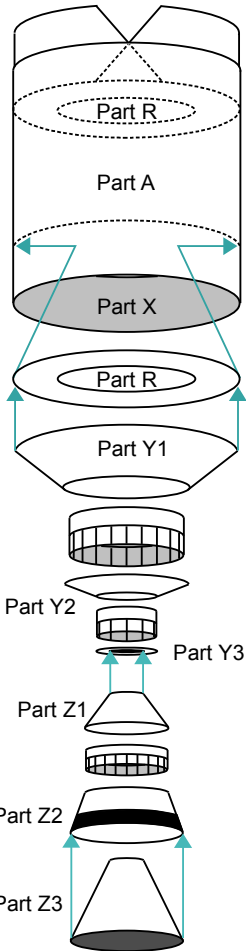
Minotaur IV

Launched 19 Nov 2010 from
Kodiak Launch Facility with
multiple satellites.

Scale 1:96

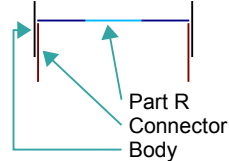


Step 1: Lower Body, Bulkhead and Engine

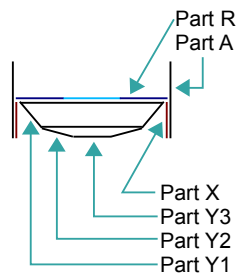


1. Roll and glue Part A and the A-B connector.
2. Glue Part R against the connector as shown.
3. Glue Part X in inside Part A with the color showing.
4. Assemble the Y parts and glue the bottom as shown below.

How to glue Part R



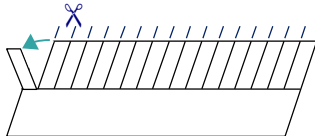
Bottom Bulkhead Construction Guide



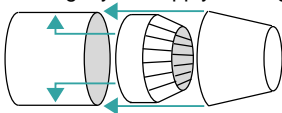
5. Glue part Z1 to Z2.
6. Roll part Z3 into a cone and glue inside parts Z1 and Z2.
7. Glue the entire nozzle onto the bottom of the lower bulkhead.

How to use connectors

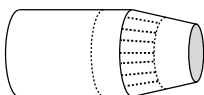
1. Cut out the connector and cut along small lines to make one side a line of 'tabs.'



2. Roll into a tube and glue inside the larger diameter tube.
3. Fold the tabs in slightly and apply some glue.

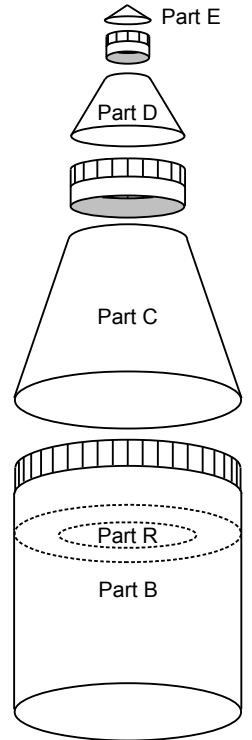


4. Attach the cone, using a small wooden or plastic rod to press the tabs to the inside of the cone.



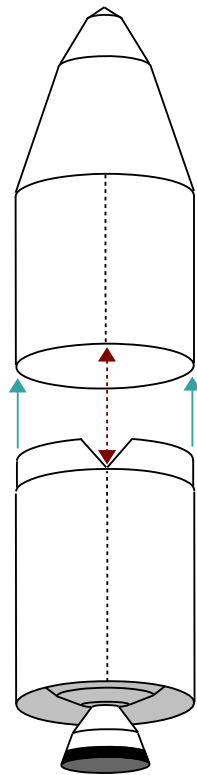
Step 2: Upper Body and Nose Cone

1. Roll and glue Part B and the B-C connector.
2. Glue Part R against the connector as shown in Step 1.
3. Glue the nose cone parts together starting with Part C.
4. When the nose cone is dry, attach it to the main Body.

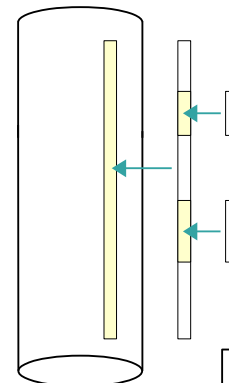


Step 3: Body Assembly

Carefully, glue the body halves together, making sure you line up the seams.



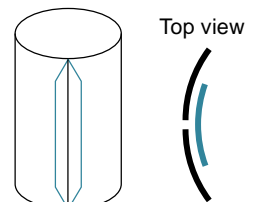
Step 4: Cable Runners



1. Glue the cable runners to another layer of card stock and let dry.
2. Glue the lone cable runner to the body, with the round end on top.
3. Glue the small raised sections to the matching section on the main runner.

Glue Tabs

Glue sections into tubes using the connector to keep the joint flush.

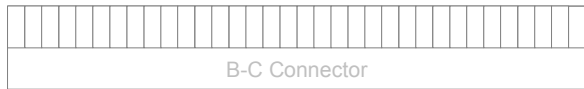


Find out more about the Minotaur 4 launch vehicle
visit the website at
<http://www.orbital.com/SpaceLaunch/Minotaur/IV/>

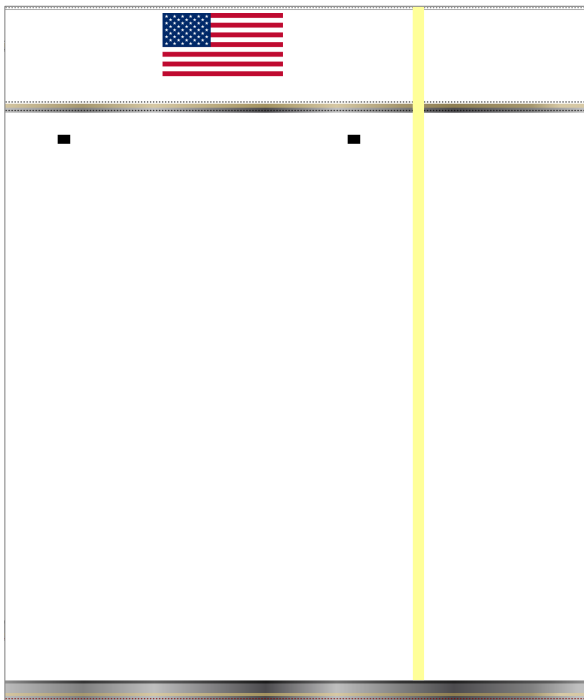
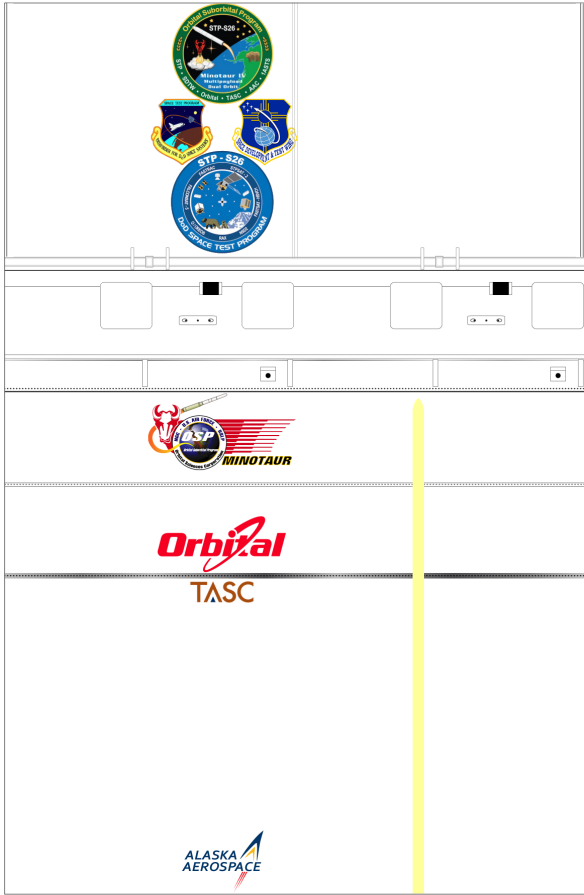


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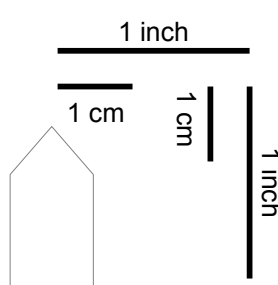
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B-C Connector



A-B Connector



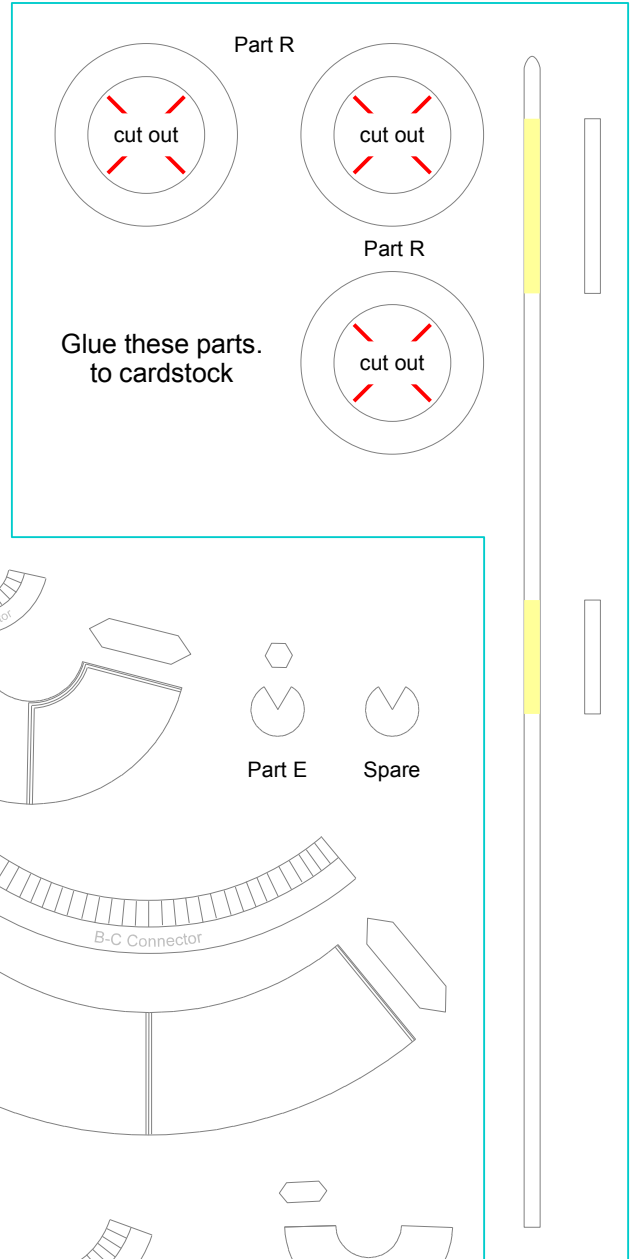
Part B



Part A

Part X

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Part D

Part C

Part Z1

Part Z2

Part Z3

Part Y1

Part Y2

Part Y3