

SpaceX Falcon 9 Stomp Rocket – 1:150 scale

- Where it is not obvious, red arrows mark the places to cut.
- Dragon Capsule:
 - Cut out the three parts for the capsule. Roll the smallest part into a shallow cone, overlapping to the dotted line, and secure with glue. Roll the remaining pieces into frustums and secure. Bend the “teeth” in slightly, apply glue to the inside of each upper piece, and assemble the stack to make the capsule (align all seams).
- Rocket Body:
 - Cut out and roll the trunk/second stage/inter-stage part and the first stage of the rocket into cylinders and secure by gluing the tabs (or cut the tab free and use as a connector strip). Cut out the connector strips, curl to fit inside the rocket body, and attach to the inside top of each part. Curl the three remaining guide ring strips and glue inside the bottom of the first stage cylinder.
 - Cut out the pressure seal disks. Glue them inside the upper rocket cylinder so they are supported by, and seal against the bottom edge of the connector strip at the top.
 - For a more accurate model – cut out the fairings for the “corner” rocket nozzles, fold the tabs at the edges inward (away from the printed side), and curl the fairings into half-cones. Using the tabs, glue the fairings in place to cover the triangles on the rocket body bottom. To make a more stable flying rocket use the fins, rather than the fairings. Cut out the fins, fold in half with the printed side out, fold out the tabs and glue. Attach fins over the triangles in place of the fairings.
- Final Assembly:
 - Apply glue to the inside of the bottom end of the upper rocket body and slip over the connector to attach it to the lower part of the rocket – aligning the seams on the parts.
 - Apply glue to the inside of the bottom of the capsule and glue on top of the rocket, aligning the flag on the capsule with the graphics on the rocket.



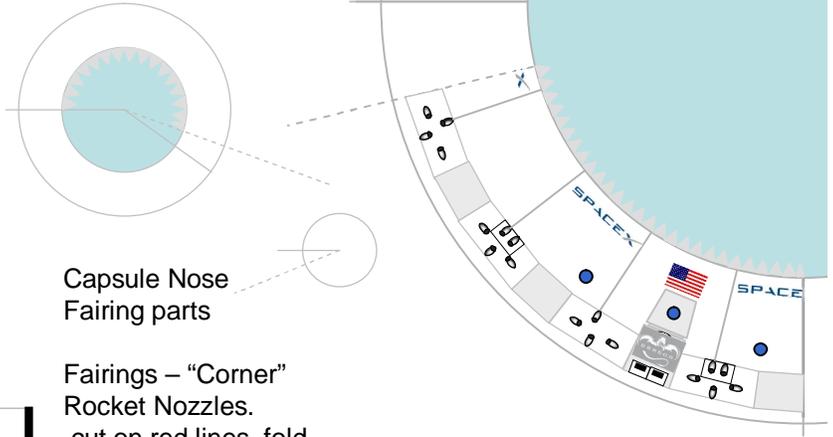
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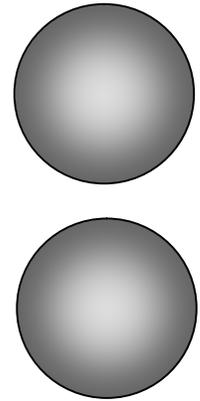
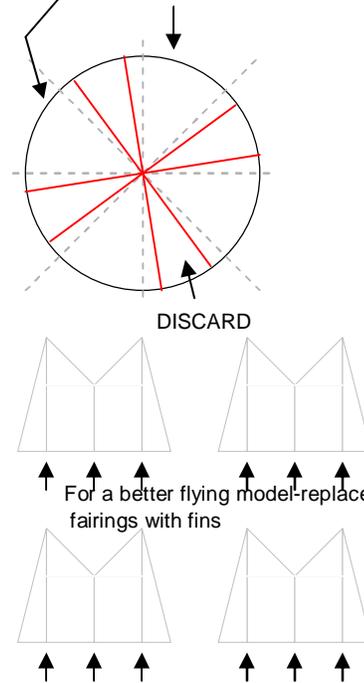
Rocket Motor Guide Ring
(Glue three layers inside rocket bottom)

- inner guide ring – inside bottom of stage one
- inner guide ring – inside bottom of stage one
- inner guide ring – inside bottom of stage one



Capsule Nose Fairing parts

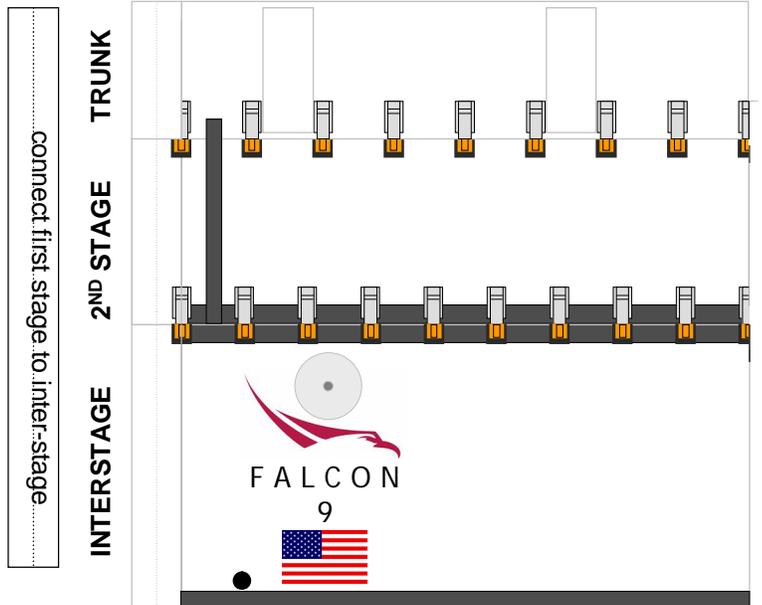
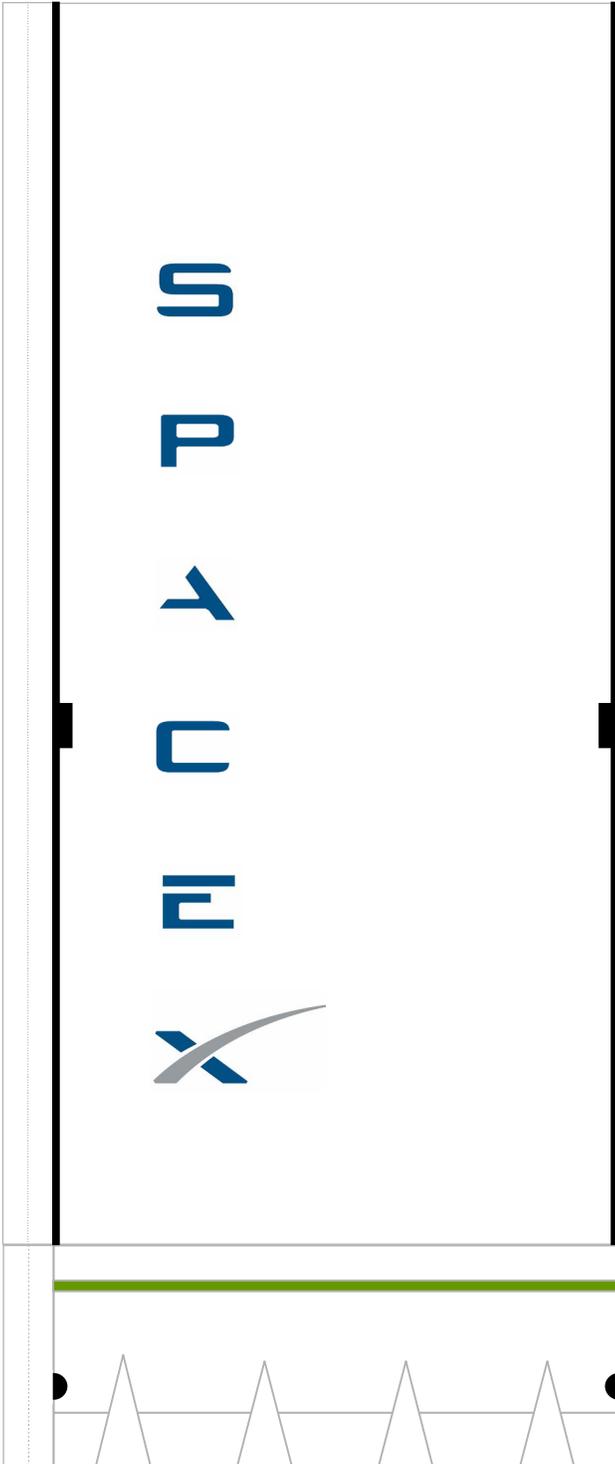
Fairings – “Corner” Rocket Nozzles.
cut on red lines, fold on dotted lines



Internal pressure seal.
Glue under connector at top of trunk just under the capsule.



FIRST STAGE



Simple stomp rocket launcher

Assemble the parts below. Joints can be glued or simply press fit. Do not glue the elbow fitting as it should rotate to adjust the launch angle.

The ½ inch PVC pipe will slip inside the neck of a soda bottle – tape for a better seal if desired or bore a closely fitting hole through the bottle cap, slip the tubing through the cap and screw the cap down to seal.

If using ¾ inch pipe, a grey conduit coupler is more flexible than white PVC and will allow the soda bottle's neck to be jammed/screwed in securely to attach it.

Rockets are made by loosely wrapping a half sheet (4 ¼ x 11) of card stock or construction paper around the removable launch tube and taping the seam lengthwise. Fins are added or cut into the bottom of the tube. Pinch the top shut and tape securely.

Slide rocket over tube and stomp away!

Launcher can be made from ½ or ¾ inch PVC tubing. Size rockets to fit the tubing used.

