

Card Model Building Instructions for: Saturn Rocket Equip. Pad 34 Launch Table

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(Edited by Mike Vink)

1st, a look at the Pad History:

Cape Canaveral Air Force Station Launch Complex 34 (LC-34) is a launch site at Merritt Island, Cape Canaveral, Florida. It was used by NASA as part of the Apollo Program, to launch Saturn I and IB rockets.

Notably, it was the site of the Apollo 204 (Apollo 1) fire, which claimed the lives of astronauts Gus Grissom, Ed White, and Roger Chaffee, on January 27, 1967.

The pad saw its first launch on October 27, 1961. This was the SA-1 mission - also the first use of the Saturn I. It was closed in 1968, with its last launch being that of Apollo 7, the first manned flight of the Apollo Program.

Originally, NASA planned to re-activate LC-34, along with LC-37 for the Apollo Applications Program, but this was cancelled. It was also considered for manned missions to Skylab, but in the end, LC-39B was chosen for these flights.

Today, the launch platform is all that is left of the pad. A memorial plaque to the crew of Apollo 1, who died at the pad, is attached to this. It bears the inscription:

*LAUNCH COMPLEX 34
Friday, 27 January 1967
1831 Hours*

Dedicated to the living memory of the crew of the Apollo 1:

*U.S.A.F. Lt. Colonel Virgil I. Grissom
U.S.A.F. Lt. Colonel Edward H. White, II
U.S.N. Lt. Commander Roger B. Chaffee*

They gave their lives in service to their country in the ongoing exploration of humankind's final frontier. Remember them not for how they died but for those ideals for which they lived.

Another plaque states:

IN MEMORY OF THOSE WHO MADE THE ULTIMATE SACRIFICE SO OTHERS COULD REACH FOR THE STARS

AD ASTRA PER ASPERA (A ROUGH ROAD LEADS TO THE STARS)

GOD SPEED TO THE CREW OF APOLLO 1

It is currently the subject of discussion as a possible launch site for the Ares I launch vehicle for Project Constellation.

You will need the following items:

1. PDF reader software
2. Computer Printer, Color, with an 8 ½"x11" media carriage
3. 8 ½"x11" bond copy paper
4. 8 ½"x11" card stock paper
5. Clear drying PVA Glue (Elmer's Glue All ® or equivalent)
6. Clear drying Glue Stick
7. Hobby Knife
8. Scissors
9. Straight edge, (For cutting guide).

Prepare for the build by doing the following steps:

1. Plot or print the Parts PDF file, following the printing notes on each page.
2. Plot with the "fit to page" scaling feature turned off.
3. To make Model 1:96th Scale, plot/print pages with the scale reduced by 25%.
4. Cut parts out on a cutting surface, (i.e. cutting board or mat). This protects the table and prolongs the life of your knife blade.

Steps for Build:

1. Cut out and score Part 1. Laminate the center but not the fold tabs, to heavy card stock media. Cut out the center circle, fold and glue the side flaps.
2. Cut out and score part 2, 3 & 4. Set these aside for now.
3. Cut out and score parts 5 thru 8. Fabricate & glue together the legs using the elevations on Pg 13 for details.
4. Glue the leg assemblies, parts 5 thru 8 to parts 3 & 4 again using the elevations on Pg 13 for details.
5. Glue part 2 to the leg assemblies using the elevations on Pg 13 for details.
6. Cut out and score part 8 and its glue tab. Glue the tab to the rear (blank) side of part 8. Roll part 8 into a cylinder with the blank side outside, again attaching the glue tab to the other rear (blank) end, folding the glue tabs outward.
7. Glue the part 8 cylinder in place inside part 2.
8. Glue part 1 to the top of the part 2/leg assembly. Form and fold down the ring supports on part 1, gluing in place on the pit walls.
9. Laminate part 14 to heavy card stock. Cut out part 14 and glue to the top of the pit ring supports.
10. Cut out, score, fold & glue parts 9 & 10 to form the pad hold down clamps. Glue these to the top of part 1 using the elevations on Pg 13 and the cover photo for details and locations).
11. Cut out, score, fold & glue parts 11, 12 & 13, forming the pad fuel arms. Glue these to the top of part 1 using the elevations on Pg 13 and the cover photo for details and locations).

Note: The placement of the pad fuel arms should be alternated with the pad hold down clamps around the top of part 1.

12. Laminate a copy of page 14 to the back of two page 8's. Cut out, score and fold parts 23 & 24 to make four stair landings.
13. Cut out parts 21 & 22 to make 6 staircases. Score and fold in a corrugated pattern, making stair treads & risers.
14. Laminate parts 15 thru 20, 25, 26, 28 & 29 to heavy card stock, then laminate a copy of page 14 to back side. Cut these out and set aside. Do the same to two sets of parts 30 thru 35.

15. Cut out and glue the twelve part 24's, (should be labeled part 27 (oops), Stair formers), to the back side of parts 30 thru 35, (Stair stringers).
16. Glue the formed part 21's to the part 32/33 and, 34/35 assemblies.
17. Glue the formed part 22 to the part 30/31 assembly.
18. Glue part 25 to part 23 & part 26 to part 24.
19. Glue the part 23/25 & 24/26 assemblies in place as stair landings using the elevations on Pg 13 for details and locations).
20. Glue part 28 (short vertical stair support) to the nose of the landing using the elevations on Pg 13 for details and locations).
21. Glue part 29 (long vertical stair support) to the nose of the landing using the elevations on Pg 13 for details and locations).
22. Glue the railings, parts 15 thru 20 onto the perimeter of part 1 using the elevations on Pg 13 for details and locations).
23. Print two copies of page 10. Laminate to heavy card stock, cut out two each of parts 37, 38 & 39 and set aside for now.
24. Laminate page 11 to heavy card stock and cut out both part 40's, setting these aside for now. Take your time, these will be a lot of work.
25. Glue the two part 40's to the yellow, printed sides of the part 39's.
26. Glue the two part 38's to the blank/reverse side of the part 39's.
27. Glue the part 37's to the face of the part 38's, placing them in the matching profile/printed area.
28. Cut out, score and fold part 41. Place glue along the long edges on the blank, rear side. Position the glued edges of part 41 on top of the two part 37's, following the curved, slide shape forming the blast deflector.

Note: The blast deflector is intentionally taller than the launch table legs. Place the launch table over the top of the blast deflector for your display. It was always tilted to one side when dragged out from under the launch table (In the real hardware maintenance cycle).

Enjoy your finished model.

Carl