

Paper model kit
STAR TREK
USS GRISSOM NCC-638

Scale approx. 1/760
Design and author: Martin Saenger
Website: http://mitglied.lycos.de/kohlen_saenger
E-Mail: martin.saenger@eisenacherbrauerei.de
Textures: Martin Saenger

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Ship description:

The USS Grissom, NCC-638, was one of the most famous Oberth class research spaceships. These Federation ships were designed to explore planets, nebulas and other natural phenomena. Although slow and only slightly armed, they quickly gained a reputation as a reliable workhorse. The longevity of this class still makes it a familiar sight in Starfleet. Only the new Nova class is a suitable replacement for these old ships.

The final mission of the USS Grissom was the exploration and examination of the newly created planet Genesis. However, while orbiting the planet the ship was attacked and completely destroyed by a Klingon Bird of Prey.

Content of grissom.zip

Grissom1.bmp
Grissom2.bmp
Grissom3.bmp
Grissom4.bmp
Grissom5.bmp
readme-grissom.doc
Instructions-1.gif
Instructions-2.gif

Model description:

- Papercraft kit for the experienced modeler
- 5 A4 pages, 170 parts
- model dimensions: 21 cm long, 11 cm wide

Required materials:

- Colour printer
- 5 sheets of A4 paper (160-170 gsm)
- scissors, ruler, sharp craft knife or scalpel
- a thin rod or wire
- glue preferably with a small tip for small components
- glue stick for larger parts

Instructions:

- Print the **Grissom1-5** bmp files at the highest printer resolution of your colour printer. (resolution of the parts pages is 203 dpi)
- Carefully cut out the individual parts following the outer edges.
- Carve in all folding lines with the knife using a ruler (also on the printed side!). Do not apply too much pressure in order not to cut through the paper! This is imperative to be able to fold the small components to shape.
- Let's start with a rather difficult component. Let's go!
- Glue the two halves of part 1 together in a congruent way.

- Then glue part 4 to the back side of the hole of part 3 so that part 4 becomes a dome. To achieve that, slightly curl the individual segments of Part 4. **Important:** Make sure the windows on part 4 are aligned correctly! (**picture 1+Image 19**) The front of part 4 has additional red marks. The black line of part 3 must go right between these two points! (**picture 1**)
- Glue Part 2 around Part 3. The lower end of the gray strip of part 2 is the alignment mark for part 3. **Important:** The grey stripe of part 2 must be inside and up! The arrow points to the top of the model! Fix part 2 inside with part 170. (**Picture 2**)
- Now glue the hangar gates (parts 5, 6 and 7) to part 1, they must form some kind of cave.
- Now glue the complete assembly consisting of parts 2, 3, 4 and 170 to part 1. **Important:** Pay attention to the orientation, corrections will not be possible. The black line (part 3) between the two red points (part 4) must exactly point to the hangar gate in the middle or the arrow on part 1! (**pic. 3**) The lower flaps of part 2 must point inwards, not outwards! (**Image 19**)
- Glue parts 8, 9, 10, 11, 12 together in the middle and then to part 1. The positions of the individual parts are marked by guides on part 1.
- Check if parts of 8 - 12 are touching the upper points of part 2. If this is the case, remove the respective flaps. (**picture 3-a**)
- Curl parts 13, 14, 15. Then glue them to part 1. Make sure that a circular structure is created.
- Now add the connectors, parts 16 - 23. They are attached in uniform conditions to parts 13, 14, 15. The spikes must be on top and fully visible! (**picture 4 + picture 19**)
- Bend the flaps of part 2 downwards. (**Image 19**)
- Part 24 is added. I attached it slowly, segment by segment. **Important:** Pay attention to the lines, they must match! The NCC lettering must be at the front!
- Glue parts 51 and 52 together to form a triangle. Fold part 50 in the middle and position it in the middle of part 49. Glue the parts 51 and 52 next to it for support. (**picture 5**)
- Cut and bend part 53 at the marked points [x]. (**pic. 20**) Then stick to part 50, starting from behind. So leave something free at the front as much as possible. (**picture 5**)
- Curl parts 59-77.
- Carefully glue part 59 to part 49/50. Now glue parts 60, 61 to part 59. To do this, only glue to the line in the middle of the parts 60, 61. **Important:** Make sure that there is some space between 49 and the connecting parts! (**picture 6-b**) At least 1-2 x paper thickness!
- Now glue part 62 as close and precisely as possible to glue part 59. It would be ideal if there are no transitions or gaps between the parts.
- Add the remaining parts 63-77 as described above. The lines on part 49 are not decisive! Only the curved and gap-free overall impression is important. The length to the back doesn't matter either!
- Assemble part 78 into a box-shaped beam. Fold parts 79 and 80 in the middle. Glue both parts to part 78. Parts 79 and 80 give part 78 the shape of a V. (**picture 7**) The outer edges of part 78/80 are decisive!
- Glue parts 83, 84, 85 and 86 to part 81. Glue the parts carefully along the outer edges to the inside of part 81. (**pic. 8**) **Important:** This time the arrows on the four parts point to the bottom of the model! In order to avoid confusion, the parts are specially marked. (**F - Front, H - Rear**) The arrow on part 81 points to the bow of the model! **Important:** No arrows or letters must be visible after glueing! (**picture 8**)
- Scrape the two grey lines on the outside of part 81 and slightly bend it inwards, creating the V-shape of part 78. Glue part 78 to the inside of part 81. (**pic. 8**) Also glue the two inclined surfaces so that part 81 follows the shape of part 78.
- Glue part 87 from the inside to the transition between part 84 and 81. Press the two parts together so that no gap is created. Repeat with parts 88, 89 and 90.
- Glue part 82 to part 81. Pay attention to the arrows!
- Glue part 124 to the bottom of part 81. (**Picture 21**)
- Glue parts 30 and 31 into a box.
- Glue parts 26, 27 and 29 up to the half to part 25. There must be enough space between the underside of part 25 and part 26/27/29. (as with e.g. part 70 – picture **6-a**) Glue part 29 to the rear end of part 25. Add part 28. (**picture 12**) **Important:** Pay attention to the red stripes!
- Glue parts 30 and 31 to part 25. Make sure there is enough space for part 81/82!
- Glue parts 33, 34, 35 and 36, 37, 38 to part 25. Glue the complete bow segment (part 59-77) to part 25. (**Picture 9**)

- Glue part 39 to part 37. (**pic. 16**)
- Attach parts 40, 41, 42 and 43. (**Bild 10 + image 22**) Glue part 44 to part 41. (**Image 20 + Image 10 + Image 22**)
- Glue part 46 to one end of part 40. **Important:** The page marked with [x] must be outside! (**picture 10 + picture 22**) otherwise there will be no space for part 48 later! The side of part 40 where part 46 is must always point to the bow of the model!
- Add part 45.
- Curve part 47 and glue it over the complete assembly. (**picture 22**) **Important:** The glue tabs of part 47 must be in part 40, not below part 40! (**picture 23**) For this are the notches on the circular sides. A thin wooden stick, pen or wire are helpful when pushing. **Important:** Begin glueing at the middle (middle line) of part 45! Part 47 (front) protrudes above part 40. This is correct and necessary!
- Now add part 48. (**Picture 22 + picture 18**) Start in the middle and work your way outwards!
- Glue this assembly to part 25. **Important:** Pay attention to the guide lines on part 25! Do not cross the line towards the stern! Also pay attention to the red stripes; the stripes on part 47 must match the stripes on the outside of part 25!
- Add Part 54. Pay attention to seamless transitions between 54 and 47.
- Curve part 122. The coloured side must be inside! Glue part 122 to part 54 from the inside. Put part 123 into part 54. It's a tight fit, but it works!
- Assemble part 32 congruently.
- Glue the beams part 81/82 from the bottom to part 32. **Important:** Pay attention to the arrows on parts 81/82! The beam must be exactly between the two guide lines on part 32.
- Glue part 32 to part 25. This is a bit difficult but very important for the good finish of the model. Work very carefully and take your time.
- Glue parts 92, 93, 94 and 95 together into a triangle. Fold part 91 in the middle and put it in the middle of part 32. Attach parts 92, 93, 94 and 95 as a support next to it. Add part 96. (**Image 14**)
- Unlike the lower bow section start in the middle this time. Glue part 97 exactly in the middle between the two guide lines.
- Add parts 98 and 99. Now curl part 100 and attach. Continue this up to part 109 similar to the lower bow section. (**picture 14**)
- Do the same with parts 110-121.
- Part 57. Remove the areas marked with a scissor using a sharp knife or scalpel.
- Glue parts 125, 126, 127 and 128 together to form a trough. The glue tabs must always be outward and not on the coloured part! (**picture 11**)
- Glue the four parts to the bottom of part 57. **Important:** Make sure that the four parts match the outer edges of the cut out areas when seen from above. Check constantly! (**Image 17-c**)
- Fold part 56 in the middle, glue together and attach to part 57. (**Picture 11**)
- Glue part 55 into a box and attach to part 57. (**pic. 11**)
- Glue parts 129 and 130 to part 57. Follow the contours of part 57 carefully. **Important:** Pay attention to the arrow on part 130, it points to the top of the model. (**picture 11**)
- Glue part 132 to the inside of part 131. The glue tabs must point slightly backwards. (**picture 13**)
- Assemble part 132 and glue to part 58. This makes assembly trickier but things would get even more difficult if you attach part 132 later.
- Glue part 134 to part 133. (**picture 19 + picture 18**) Again, some kind of dome has to be created.
- Glue part 134/133 to part 58. **Important:** Pay attention to the window orientation! (**Image 18**)
- Glue part 58 to part 57. Make sure that the components are on a flat surface!
- Put the top of the resulting component (57/58) on a flat surface. Glue the complete fuselage section to the top. (Parts 58 and 81/82) **Important:** It may be necessary to apply some force. But don't worry, the beam is quite stable and can still be bent. Pay attention to the right direction!
- Glue the saucer section (part1, etc.) to part 57. Pay attention to the marks and the orientation.

- Glue parts 138 and 139 along the contours to part 57. **Important:** The red markings are always pointing down and forward! So they can't be seen any longer after glueing! (**picture 17**)
- Remove the areas marked with a scissor on part 144.
- Glue part 144 to part 57, 138 and 139. (**Picture 17**)
- Glue parts 140 and 142 together into a cylinder and glue them to the holes of part 144. Add parts 141 and 143.
- Fold parts 135, 136 and 137 and glue them to part 57. (**pic. 17**)
- Remove the areas marked with a scissor on part 151.
- Glue part 146 to the middle of part 145. Add parts 147 and 148. (**pic. 15**)
- Glue part 149 into some kind of trough. The glue tabs must always be outward, not on the colored part! (**picture 15**)
- Curl part 151 carefully.
- Glue part 149 from the inside around the hole of part 151. **Important:** The open area of part 149 must still point forward, the closed are must face the rear! (**picture 15**)
- Glue part 145/146 into the inside of part 151. **Important:** Dry-fit a few times before to find the optimal position. The inner structure must be about 1.1cm away from the front / te round side of part 151. Parts 149 and 150 are decisive. There must be enough space for both later! (**picture 15**)
- Add parts 150 and carefully close part 151. A thin rod or wire might be helpful.
- Add parts 152, 153 and 154. (**pic. 17**)
- Parts 155 and 165. (**pic. 18**) Attach the complete engine to part 57.
- Repeat with parts 157 - 167.
- Now build the display stand using parts 168 and 169.
- That's it. The USS Grissom is finished!

Have fun!

Martin Sanger

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