



RODDENBERRY



STAR TREK
THE NEXT GENERATION
Season One Phaser Kit

PRP1745



**RODDENBERRY ENTERTAINMENT
STAR TREK: THE NEXT GENERATION
SEASON ONE PHASER KIT**

Thank you for your purchase of the Roddenberry Entertainment *Star Trek: The Next Generation* Season One Phaser Kit. These instructions will enable you to construct an accurate replica of the phaser used in the first two seasons of *The Next Generation*.

It is cast hollow for light weight and ease of upgradability, and features a snap-in grip so no screws are visible or necessary, and includes a translucent red emitter.



PARTS LIST:

- 1 main body
- 1 emitter
- 1 grip
- 2 bullet catches
- 1 LED bargraph casting
- 1 trigger and 2 force setting buttons
- 1 window mask for emitter and LED masks for bargraph

TOOLS AND SUPPLIES NEEDED: [available at your local hardware or hobby stores]

Hobby knife
Automotive spot putty
Cyanoacrylate glue [“gap filling” type recommended]
Sandpaper [220/320, 400, and up to 600 grit]
Masking tape [blue painters’ tape recommended]
Hot glue gun and hot glue OR 5-minute epoxy glue

Optional tools:

File [flat or half-round]
Small paint brushes if you are going to hand-brush on some of the details

SPRAY PAINTS:

Spray primers in light gray and black [sandable type]
Krylon 1605 Stone Gray
Krylon 1403 Dull Aluminum
Semi-Gloss Black [Krylon brand or similar], and Gloss Clear [Krylon 1303 or 0500 or similar]
Metallic Light Blue [Duplicolor BCC0386 Teal Blue or BGM0539 Light Met. Blue or similar]
Krylon 1604 Shadow Gray or similar medium darkness gray [may be brushed-on]
An off-white color [Krylon 1504 Ivory Gloss or a similar brush-on paint]

Always follow manufacturer’s instructions and safety tips on your materials. Always work in a well ventilated area when using putty, paints, and glues; and when sanding.

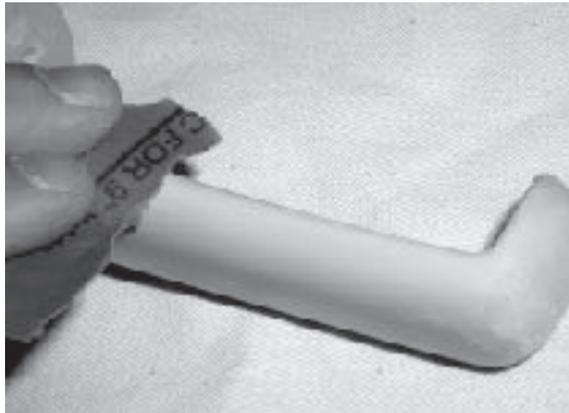
Wash your parts with soap and water to remove traces of mold release before starting.

Test fit the LED bargraph, sand it if necessary until it looks good and fits properly. Also test fit the emitter and the grip. Prepare the three buttons by removing the plastic masking from both sides if present, and sand the edges and both sides so it all looks smooth and will fit in the three button depressions.





Sand away the sprues and any mold seams on the body, putty any objectionable bubbles or lines, sanding marks, etc. and sand until smooth.





When the body is prepared, hang the body on a hook and spray your first coat of gray primer. When dry, putty and sand any pits or dips that wasn't visible before painting. When you have a surface you're pleased with, spray a fresh coat of primer over the sanded areas before proceeding.



Spray the Stone Gray finish coat next. Two light coats are better than one heavy coat, this may be wet sanded between coats with 600 or finer grit sandpaper if desired.



When you have the final gray finish, lightly mist a fog of Dull Aluminum spray paint over all the body to give you the pictured finish.

Be sure you check to see that visible hidden areas like the inside grip area is also painted and finished.

Allow several hours or overnight for the finish to cure before handling.



Mask around the top display block with the masking tape and either brush-on or spray a coat of dark gray in the visible area.



Prepare the grip like you did the body -- cut off the sprue and sand the mold seams until smooth and putty if necessary. Lightly sand the surface with 320 or 400 grit sandpaper to allow the paint to stick better.



Prepare the holes in both ends of the grip, clear away with your knife if necessary, then test fit the bullet catches. The catches should fit snugly but not be too difficult to push in. Remove the catches before painting.





Make a hook as shown using a wire hanger, then spray primer [with gray or black], then spray the color coats with the semi-gloss black. You may substitute gloss black which may look better to you, but it takes longer to dry and will show off more surface flaws than the duller paints. Allow to cure several hours or overnight before handling.



With the cyanoacrylate glue, apply a small amount on each edge of a hole [one hole and catch at a time] and push in the bullet catches until set in place. Be sure that you don't accidentally get glue in the catches themselves, press the catch balls in to be sure they still function.



Prepare the emitter by sanding the mold seams and lightly sanding the surfaces. You may keep the impressed window areas present in the raw casting for use as a masking guide later, or sand the whole window ring smooth.

Mask the emitter window ring details on both sides using the supplied masking vinyl and using what's left of the original squares from the raw casting as a guide, assuming they weren't sanded off. The window ring masks are pre-cut in the approximate shape that conforms to the window ring itself, so cut the white masking border close to the red masks, peel the backing paper away, and place on the window ring with the curve going upwards towards the front. You will need to do some repositioning of some or all of the masks so they all look even to each other as well as within the window ring. Note that the two sides at the center also have the same gap in between tapes as the rest of the window mask pieces.

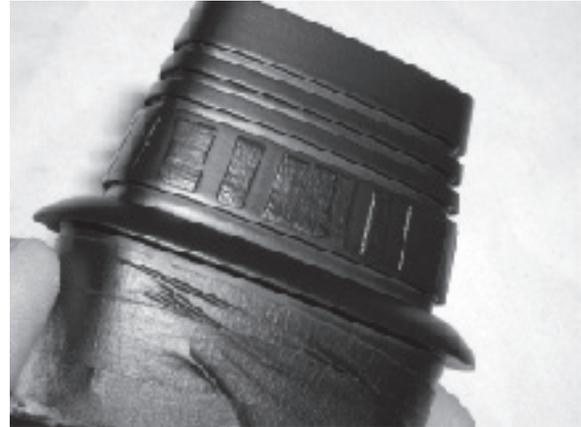


Also apply some tape on the little tip area at the front end, and the block of material that goes into the phaser.



The original phaser props did not have the three forward grooves masked off before painting, rather if they had red light showing in those grooves it was because there wasn't enough paint that went in them; though if you wish of course you can mask the grooves as desired.

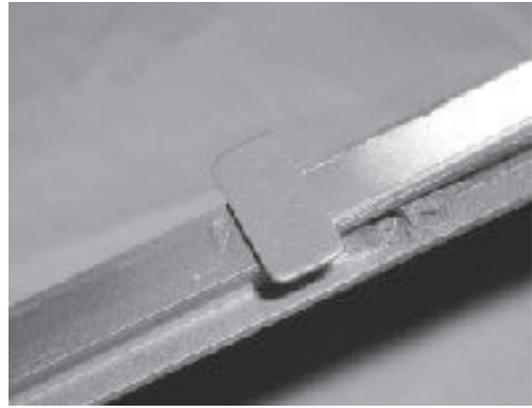
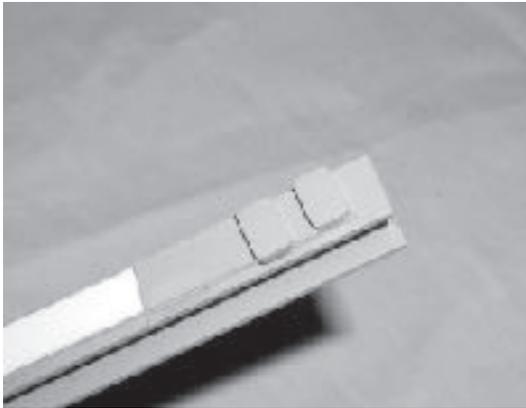
Spray black primer onto the emitter, then your finish black coats with semi-gloss black. As with the body, you can wet sand the emitter for the ultimate smooth finish -- allow the water to dry completely before spraying the next coat. Allow to cure several hours before handling.



When the paint is cured, mask the emitter so that only the front area is unmasked — leave the tip masking on! Spray this area with light blue metallic — the best one is made by Dupicolor and available in most automotive parts suppliers like Pep Boys or Auto Zone, and the color is a blue-silver.



When cured enough to handle, remove all the masking except for the back part that is glued into the phaser, then spray the entire emitter in gloss clear.

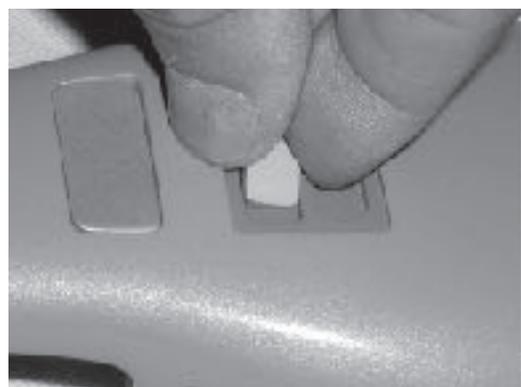
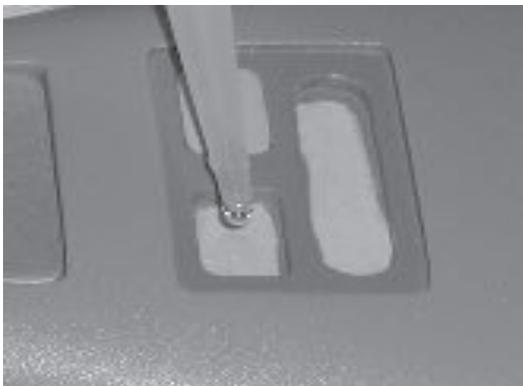


Secure the buttons on a popsicle stick, cardboard, etc. and spray primer. The two small buttons are off-white in color, these can be brushed-on or spray painted. The trigger button is Dull Aluminum.



When dry, test fit the buttons.

Scrape away the paint on the body where the buttons [and the LED bargraph] will be glued to -- glue joints work better resin-to-resin than on paint. Apply glue to the button depressions and place the buttons, don't use so much glue that it seeps out of the edges and onto your finish.





The LED plate was cast in translucent green which simulates a 10 element green bargraph LED array, that comes with green elements bordered by a light gray.



Take your part, and mask the individual LED elements, then spray with gray primer. Spray a coat of clear on it, then when dry peel off the 10 masks, and glue onto your phaser body.



Scrape away paint from the inside of the large phaser cavity where the emitter goes, and be sure the area of the emitter that is inserted into the phaser to be glued is roughened up.



Before gluing, check the fit of the emitter, paying attention to the outer edge of the emitter where it meets the phaser; the curvature of the phaser/emitter interface may be more even looking in one direction over the other.

You may use either epoxy glue or ordinary hot glue to secure the emitter to the phaser, depending on what you are more comfortable with.

In either case, you want to be careful you don't get glue on to the outside surfaces. With either the hot glue or 5 minute epoxy, you should have enough time to spread the glue where you need it, insert the emitter, and align the parts until the glue sets.





When the glue hardens and the grip snapped in place, the phaser is finished!



IMPORTANT NOTES:

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Photographs by Michael Moore.

Text by Robert Mannion

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