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**#PRP1749**

# ***Star Trek*™ "Cobra" Phaser Prop Kit Assembly Manual**

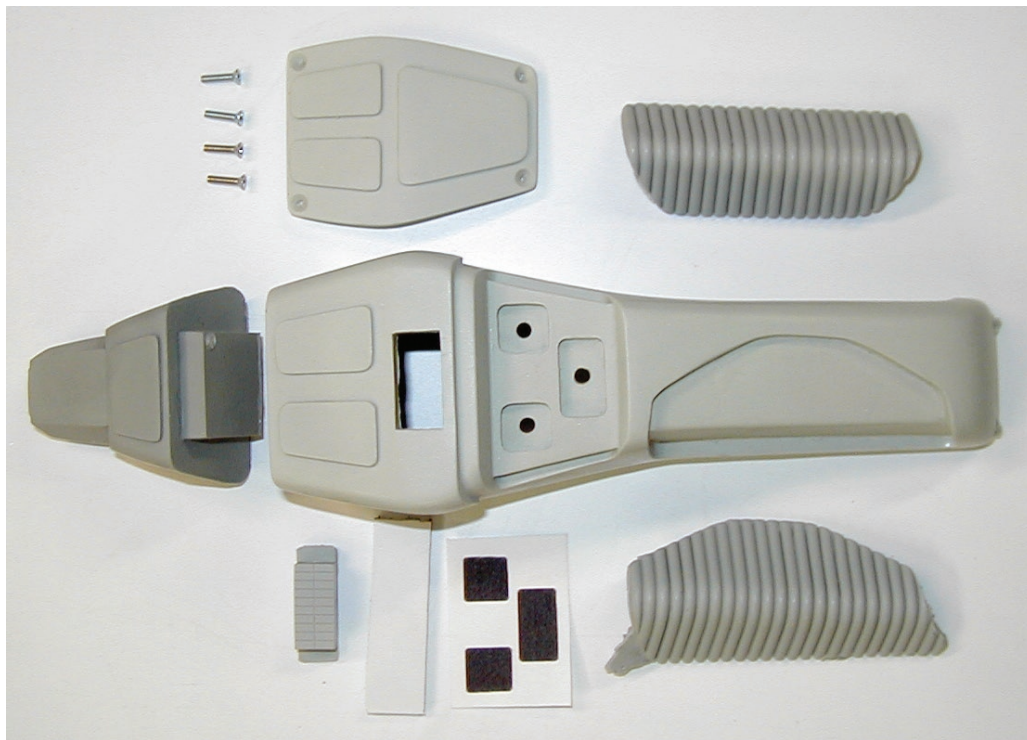


**Roddenberry.com** presents an easy-to-assemble **Phaser Kit** which will look great in any prop display or to wear with a costume! Due to its shape, it was dubbed the "**Cobra Head**" Phaser by the original prop makers.

**The Cobra Phaser Kit** is cast hollow for light weight and electronics upgradeability and features separate handle grips and emitter for ease of painting.

*Electronics not included with this kit.*

## BASIC LAYOUT AND INVENTORY



## PARTS LIST:

- 1 Main Body
- 1 Upper and Lower Grips
- 1 Emitter
- 1 Cast LED Display
- 1 Bottom Plate
- 4 2-56 x 1/4" Flathead Screws
- 1 Button Template
- 1 1/8" Sheet Plastic for buttons

## TOOLS NEEDED:

Hobby knife  
 Sandpaper (150 to 220 grit rough paper,  
 320 to 400-600 grit finishing)  
 5 Minute epoxy or cyanoacrylate glue  
 (gap-filling thick type recommended)  
 Auto body spot putty  
 Masking tape (blue "low tack" type recommended)  
 Glue Stik  
 Small hobby paintbrush  
 Screwdriver

### Optional:

Foam weather-stripping tape

## PAINTS NEEDED:

*(spray paints unless noted)*

Spray Primer (sandable type)  
 Silver or Medium-Gray Metallic (see instructions)  
 Semi-Flat or Gloss Black  
 Light Green (fluorescent or regular) spray or  
 bottle paint  
 Metallic or Transparent Blue  
 (spray or bottle paint)  
 Antique White or Beige or other light tan color  
 (spray or bottle paint)  
 Aluminum (spray or bottle paint)

***These instructions assume you are making a non-functioning "dummy" prop.***

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

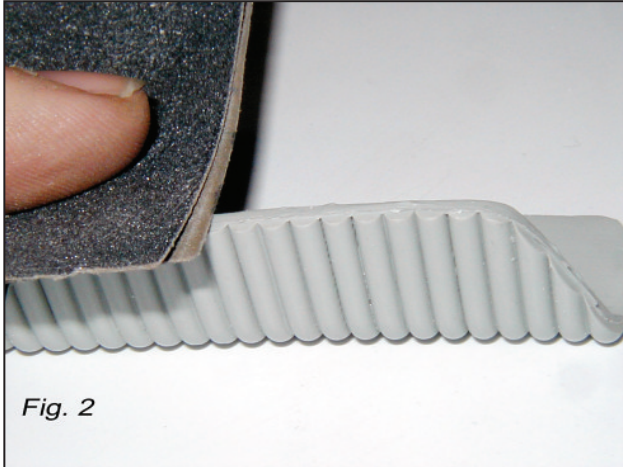


Fig. 2

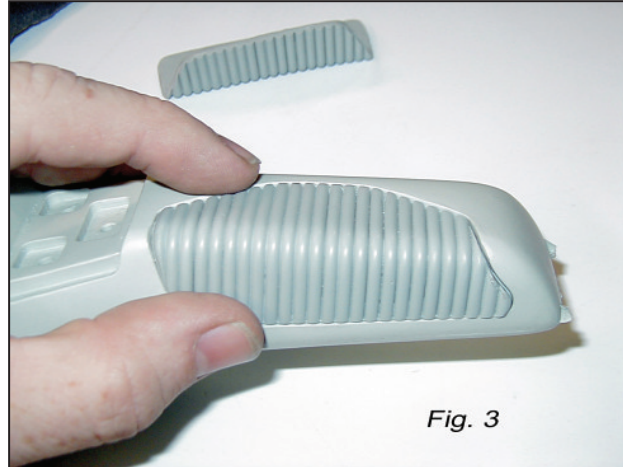


Fig. 3



Fig. 4



Fig. 5

**Step 1:** Sand all mold separation lines and sprues smooth, test fit your parts as you work. Clear the holes in the bottom plate as well as the LED display hole with your knife. Fill in any objectionable holes/bubbles and seam lines with the spot putty according to the putty manufacturer's instructions, then sand smooth [Figs. 2 through 5].



Fig. 6

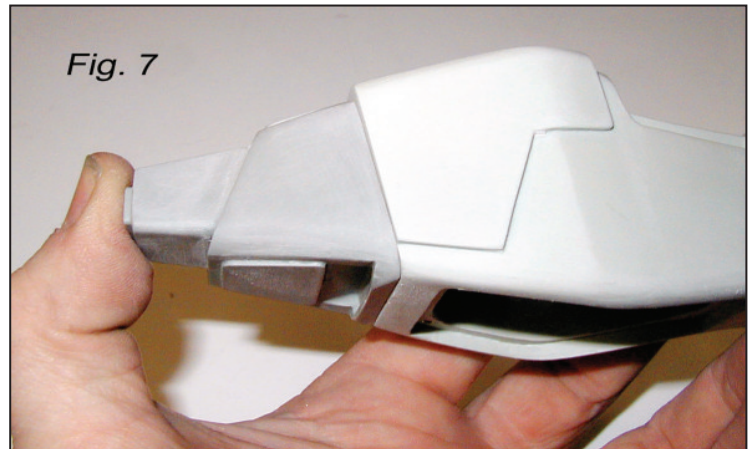
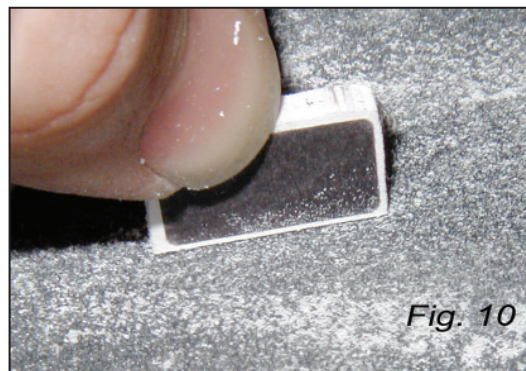
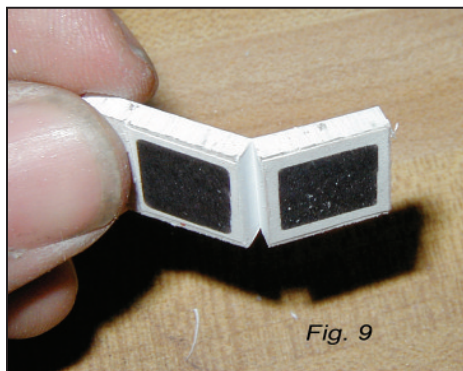
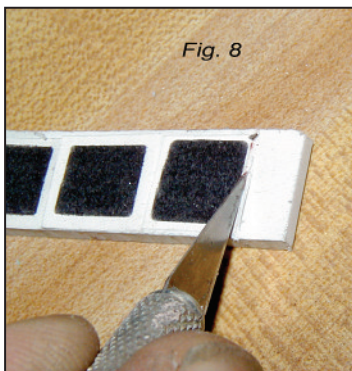


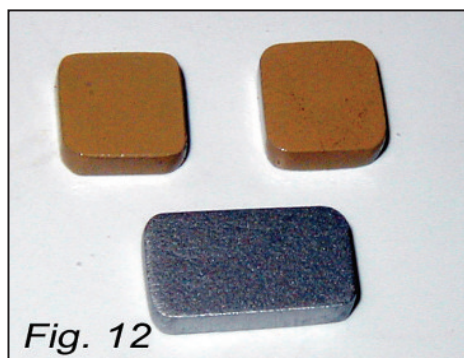
Fig. 7

**Step 2:** Sand the back of the emitter if necessary so the emitter fits into the phaser all the way [Figs. 6 and 7].

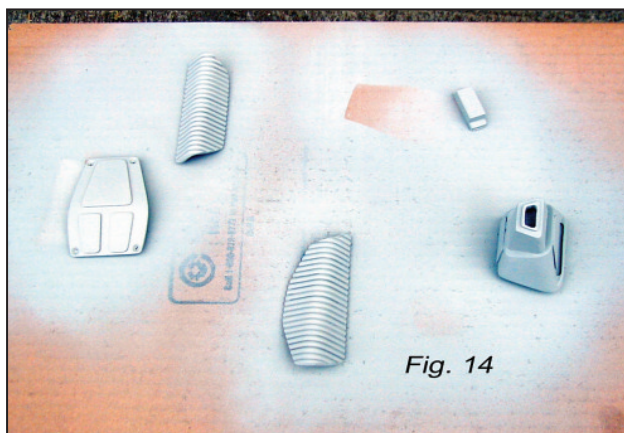
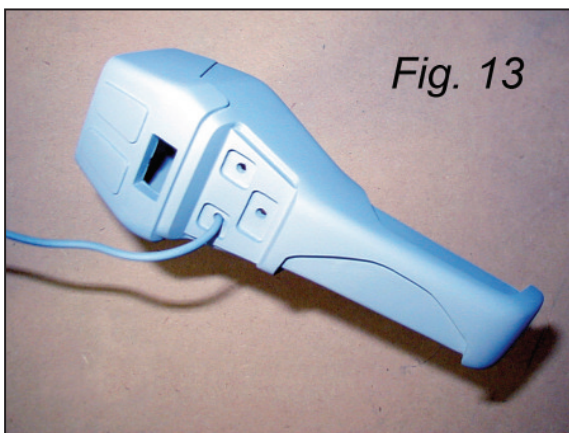




**Step 3:** Make the control buttons with the supplied plastic strip and template, securing the template with Glue Stik and scoring and snapping the plastic with your hobby knife, then sand the edges to size and sand the corners round [Figs. 6 through 8].



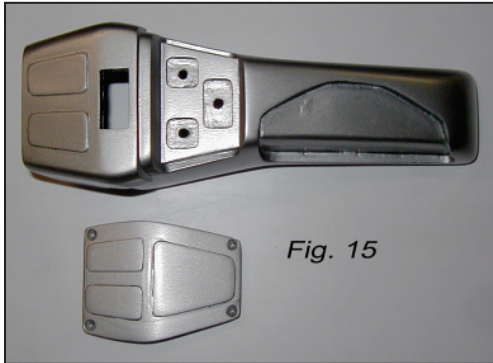
**Step 4:** Clean the residual glue off, check the fit in the holes, and then spray primer and spray (or brush) paint the two small buttons antique white or beige. Primer, then paint the large button silver or aluminum [Figs. 9 and 10].



**Step 5:** When you're satisfied with the smoothness of your parts, make a hook with a wire hanger and hang the main body for painting through one of the control button holes. You may cover with masking tape any areas that will have parts glued to them, otherwise they will need to be scraped clear of paint before gluing parts. The other parts may be placed on a flat surface, and then spray primer all parts including the heads of the four screws [Figs. 13 and 14].

When dry, check for imperfections and putty and sand smooth if needed. Spray primer again and repeat if necessary. [See note on the following page.]

**Note:** The Cobra Phaser was originally painted with a silver metallic paint – Plastikote Burnished Silver is typical of the paint finish. Throughout its use on *Star Trek*, the Cobra Phasers were painted in several different colors, so Krylon Dull Aluminum, Krylon Bright Silver, Plastikote GM7173, Plastikote Medium Charcoal Gray, etc. may be used, as well as the Plastikote Burnished Silver.



**Step 6:** When you have a final primer coat that's to your satisfaction, spray paint with silver the main body and the bottom plate, as well as the heads of the four screws. You may wetsand the parts with 600 grit or finer sandpaper for the ultimate smooth finish, then spray a second color coat. When you've sprayed your final color coat, set aside for several hours or overnight. Taking your time with the paint will yield you a better finish without fingerprints from premature handling [Fig. 15].



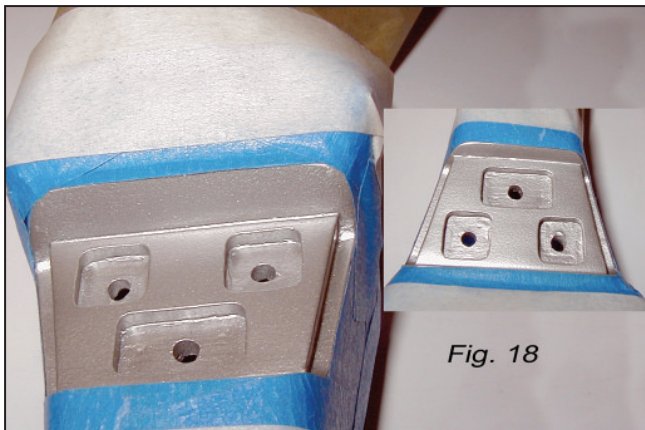
**Step 7:** Spray paint in black the two grips and the emitter. Again, you may wet-sand and paint a second coat if desired [Fig. 16].



**Step 8:** In the bottom of the emitter is a depressed slotted area and ramp. You may mask off this area and spray paint silver first and then transparent blue into this, or spray a metallic blue -- this gives the same effect. This color may also be brushed in if you want [Fig. 17].

You may also paint blue into the front emitter hole and the raised detail surrounding the hole, or leave this black.





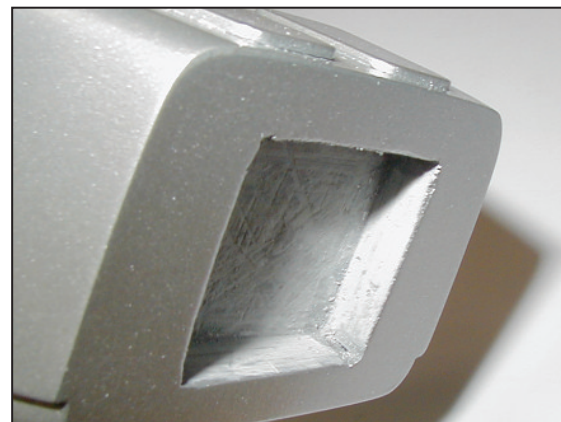
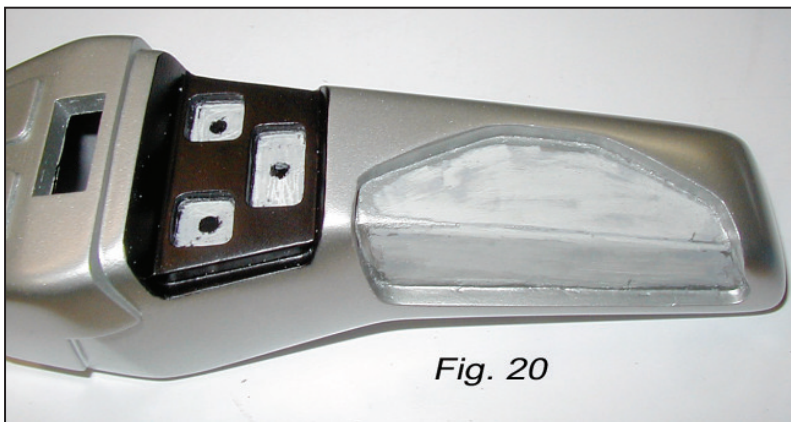
**Step 9:** After the main body paint is cured, apply masking tape so the control button section is exposed as shown, and then paint this area black. If you wish an alternative: on the Cobra Phaser, some had been painted with just the flat control button area in black with the surrounding area in silver [Fig. 18].

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**Step 10:** When cured, remove the tape [Fig. 19].

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**Step 11:** Glue does not stick well on paint, so scrape away the paint where you will be gluing the two grips and the large square emitter hole (this also roughens the surfaces so the glue will stick better) [Figs. 20 and 21].

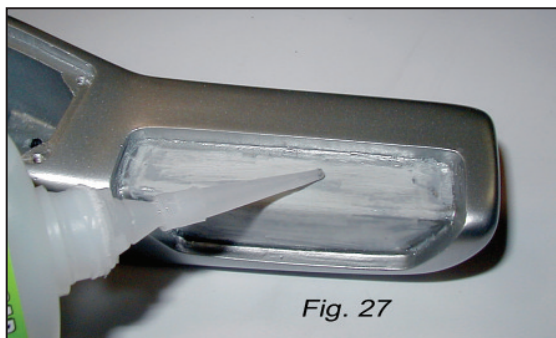


Fig. 27

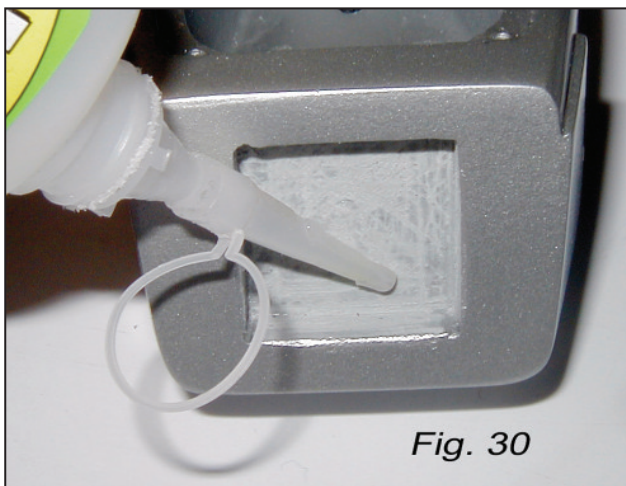


Fig. 30

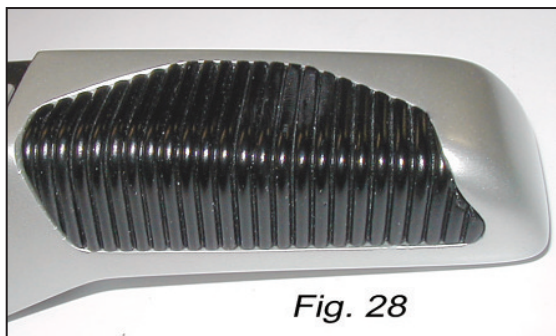


Fig. 28



Fig. 29

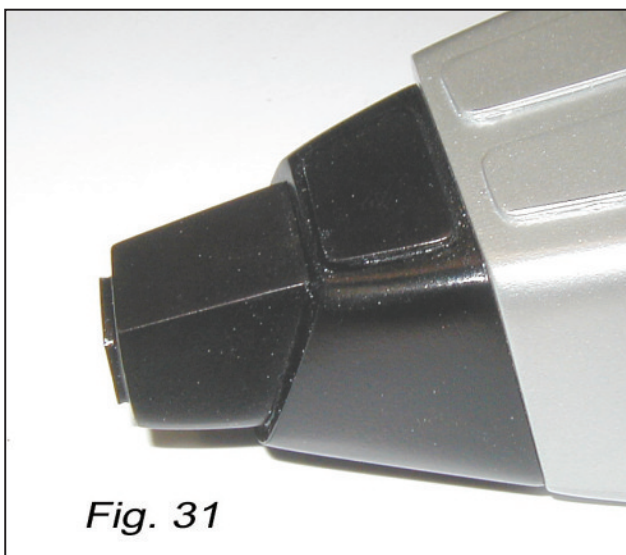


Fig. 31

**Step 12:** Glue these pieces one at a time using either epoxy or cyanoacrylate glue, depending on how much of a gap you have inside your joints [Figs. 27 through 31]. Be sure you do not get glue on any outer exposed surfaces. Allow to cure before handling further.



Fig. 22



Fig. 23

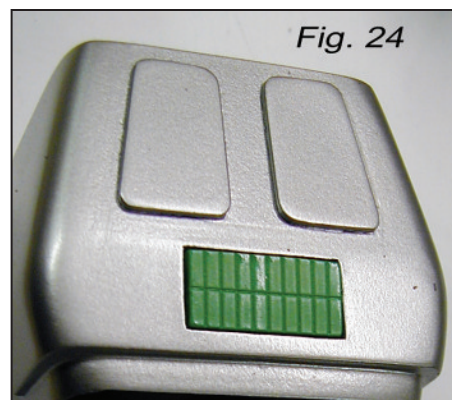


Fig. 24

**Step 13:** Spray or brush paint the top surface of the cast LED display [Fig. 22]. Check the fit -- the arrow on the bottom of the display points forward -- then glue in place [Figs. 23 and 24].







Fig. 25

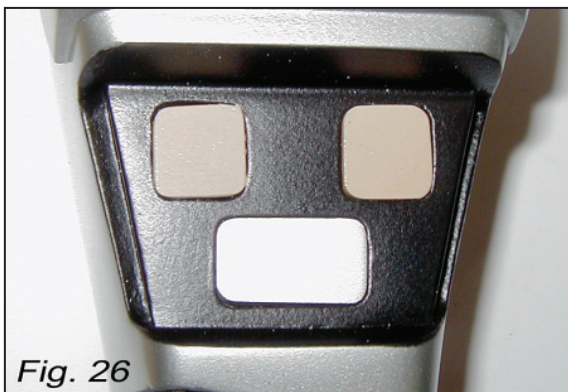


Fig. 26

**Step 14:** Secure the three control buttons in place. This may be more easily done by placing the buttons in first and applying a drop of glue in the holes from inside the phaser cavity (hold each button in place as you do this). You have an option of purchasing some thin foam weather-stripping and securing the buttons with foam inside so you can push the buttons if you want to, instead of a solid glue joint **[Figs. 25 and 26]**.

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Fig. 32



Finished Phaser!

**Step 15:** Place the bottom plate on and screw in place **[Fig. 32]**, and you're done!

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### IMPORTANT NOTES:

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