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#PRP1765

***Star Trek: Enterprise* Communicator Prop Kit Assembly Manual**



Thank you for your purchase of the **Roddenberry.com *Star Trek: Enterprise* Communicator Prop Kit**.

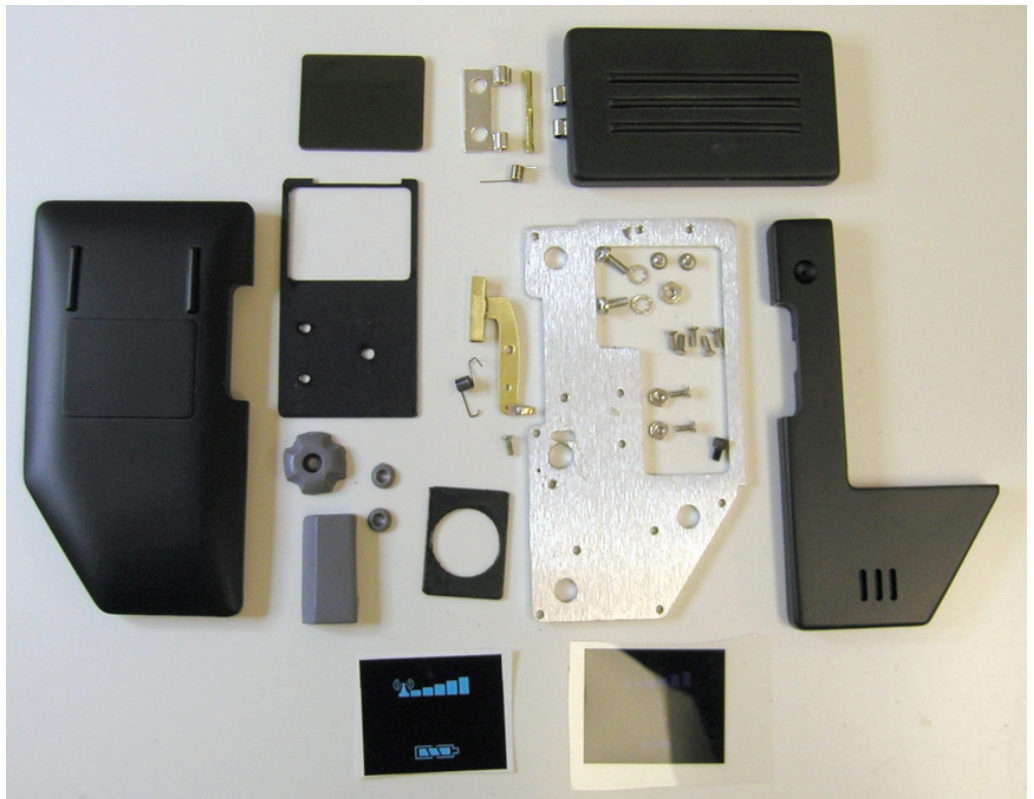
This is the first time a kit of the 22nd Century Starfleet communicator, produced using the original master tooling, has been made available, and will produce a static, non-electronic prop with a latchable self-opening grid flap. This kit is easy to put together with a minimum of clean-up and no holes to drill, and is designed so it screws together with little glue needed. Electronics are not included.

Check with Roddenberry.com about the availability of an electronics kit for this prop.

BASIC INVENTORY:

Resin parts including:

Main Body
 (front frame and
 back cover)
 Grid Flap including
 cast-in hinge with
 spring complete
 Large 4-lobed main knob
 2 small round button
 castings
 Latch button
 Aluminum center plate
 Brass latch
 Control/screen back
 Knob detail plate
 Display screen graphics
 (paper and transparent)
 Display plate
 (one each clear
 and smoked)
 Latch spring



Screws included:

8 @ 0-80 x 3/16"
 2 @ 2-56 x 1/8"
 2 @ 2-56 x 1/4" round head
 1 @ 2-56 x 1/8" Allen screw
 2 @ 0-80 nuts
 1 @ 2-56 nut
 2 @ #2 star washers

TOOLS AND MATERIALS NEEDED:

Sandpaper (320 grit rough, 400-600 finish)
 Sanding sticks (optional)
 #0 size Philips and slotted screwdrivers
 Auto body spot putty
 Masking tape
 5-minute epoxy glue
 Testors Clear Parts Cement
 5/64" Allen wrench

PAINTS NEEDED:

Primer (black preferred)
 Metallic Silver
 Semi-Flat Black



PREPARATION:



Step 0:

Start by sanding all mold lines and other spots from the edges of the castings. Sand flat the bottoms of the one large knob and two small buttons [Figs.1 to 3]. ***Be sure you don't take too much off or lose them!***

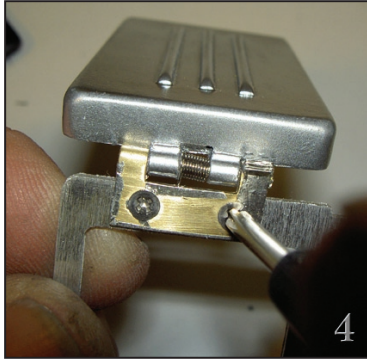
Prepare the resin parts by sanding the surfaces to roughen them up slightly, fill in any objectionable spots or bubbles with spot putty, then sand smooth and primer with black primer.

When ready, paint the two main body parts in Semi-Flat black. Paint the grid flap, the large 4-lobed knob, and the resin latch button (the rectangle with the angle) in bright metallic silver, then set aside until fully dry and cured. *Krylon Chrome (large or thin can) may be used as an alternative for a more distinctive metal look to the flap and knob.*

Also paint in Semi- Flat black the two small buttons -- secure them to a painting surface or a popsicle stick with a loop of masking tape (with sticky side out!).

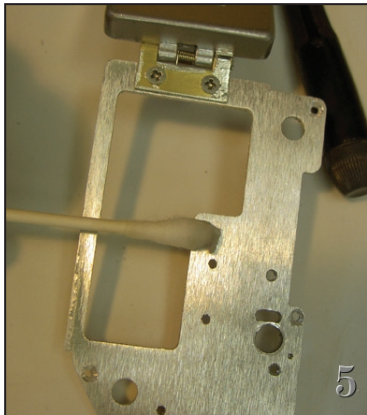


ASSEMBLY:



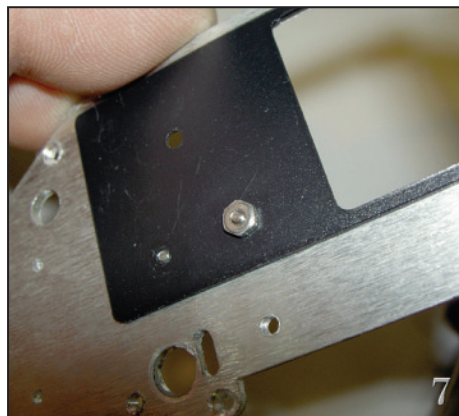
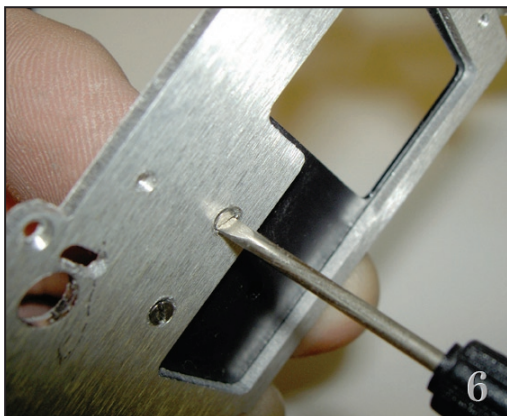
Step 1:

Begin assembly by screwing the grid flap onto the aluminum center plate using the two 2-56 x 1/8" screws, making sure the flap sits evenly on the plate and you have free spring action **[Fig. 4]**.



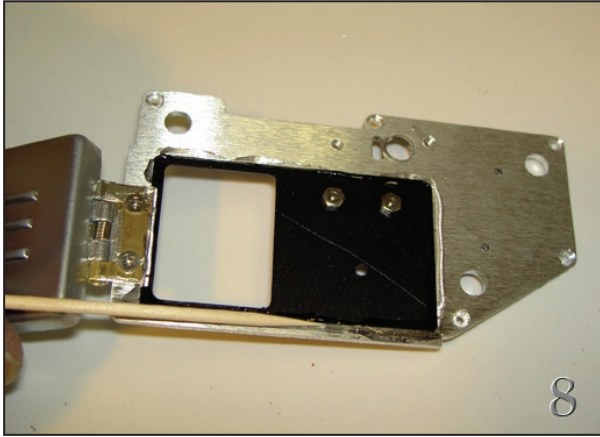
Step 2:

Clean the surface of the back of the metal plate surface with acetone or other solvent **[Fig. 5]**. This will help when gluing on the control/screen back.

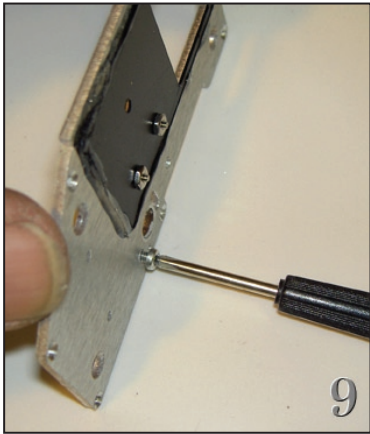


Step 3:

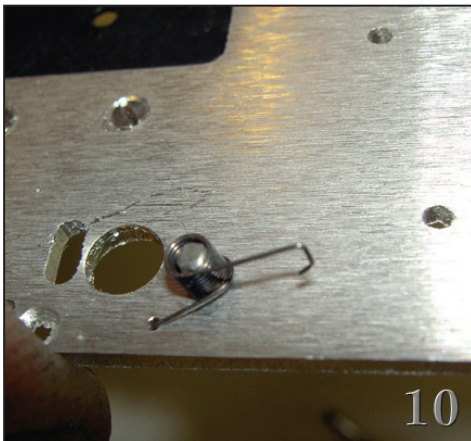
Secure the control/screen back to the metal plate using 2 @ 0-80 x 3/16" flathead screws and the two 0-80 nuts **[Figs. 6 and 7]**. This lines it up in the right place.

**Step 4:**

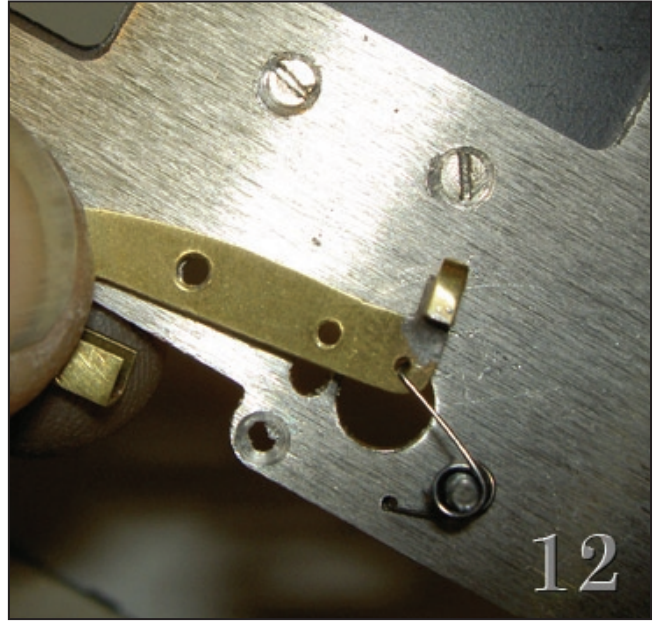
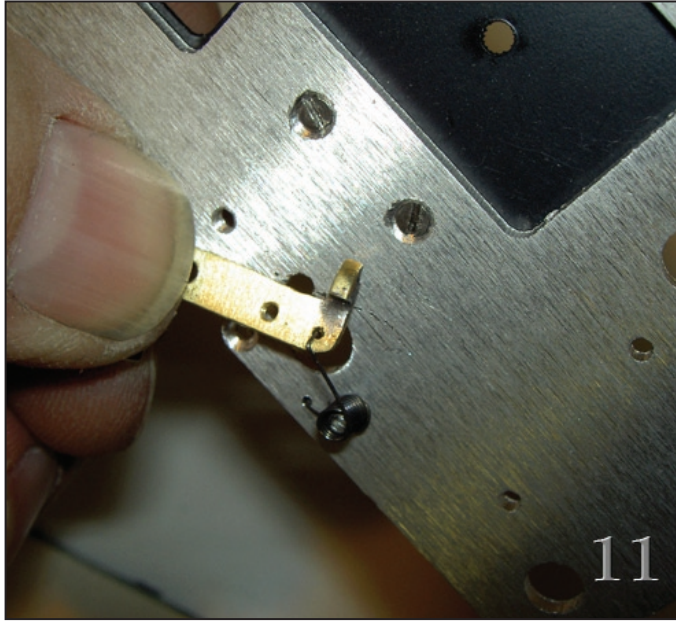
With 5-minute epoxy, glue the edge of the control back. Be careful you don't get too much on the outer edge of the metal plate as the dried glue may interfere with the placement of the back cover **[Fig. 8]**.

**Step 5:**

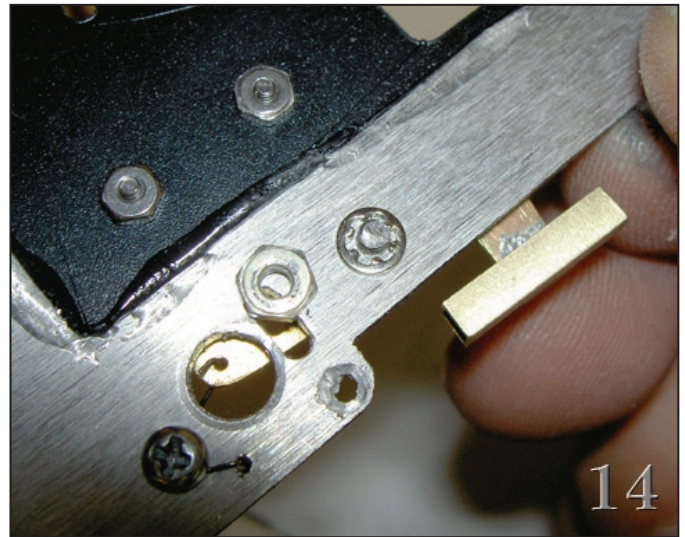
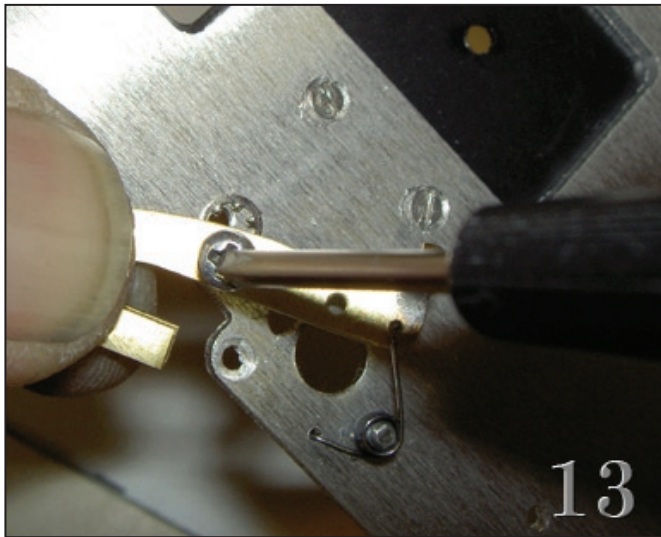
From the back side of the metal plate, screw in the 2-56 x 1/4" round head screw **[Fig. 9]**.

**Step 6:**

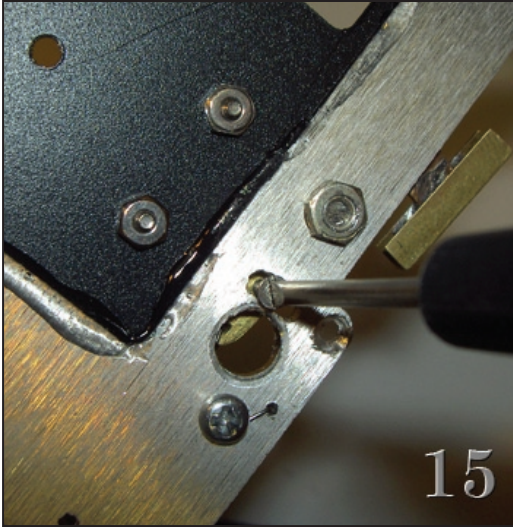
Turn the communicator over so the right side is up, and insert the latch spring around the screw stud as shown, with the short end in the plate hole **[Fig. 10]**.

**Step 7:**

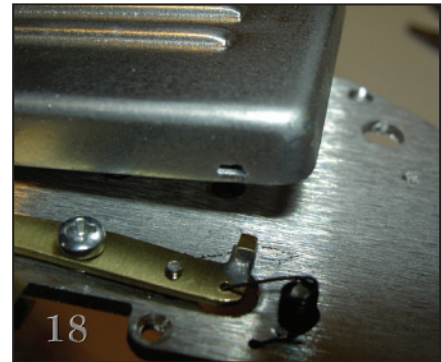
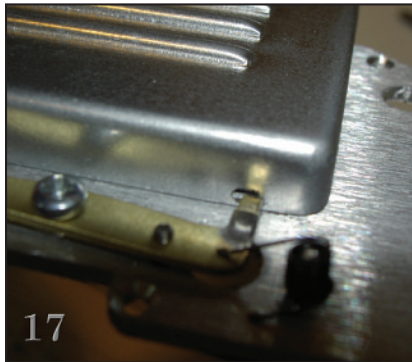
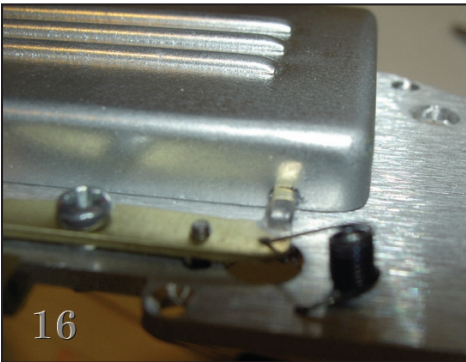
The free end of the spring is placed into the bottom hole of the brass latch and is tensioned around the stud in the counter-clockwise direction [Fig. 11]. The final position of the spring and latch should be as shown in Fig. 12 with the large hole centered at the hole in the plate.

**Step 8:**

While holding the latch in place, put a #2 star washer in between the latch and plate which will give a bit of clearance for the latch, then put a 2-56 round head screw through [Fig.13]. Check to see you have even clearance for the entire latch, especially at the hook end. On the other side, put the second washer in and secure with the 2-56 nut [Fig. 14]. Make sure the latch moves easily, do not overtighten. Put a drop of epoxy on the nut to keep it from coming loose.

**Step 9:**

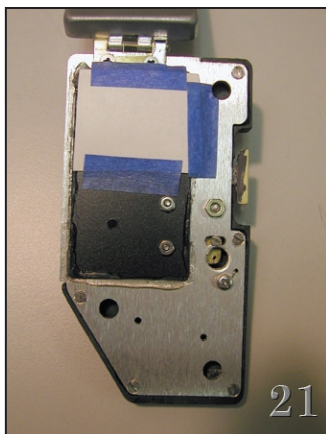
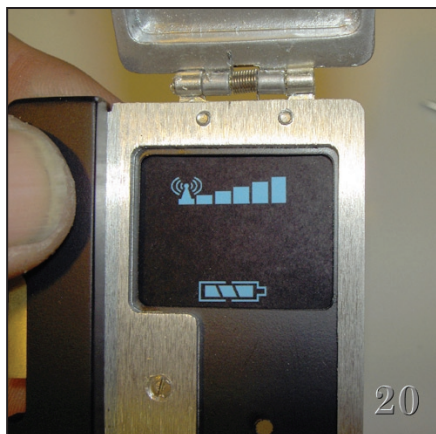
From the back side, screw in a 0-80 x 3/16 flathead screw in the slot and into the latch. This helps stabilize the latch assembly and also helps to lower the hook end so the flap will close tighter and the self-opening flip action is better **[Fig. 15]**. Again, do not overtighten, it needs to move freely -- you may want to use a tiny amount of silicone grease or graphite (such as ground up pencil lead) to lubricate the screw in the slot.



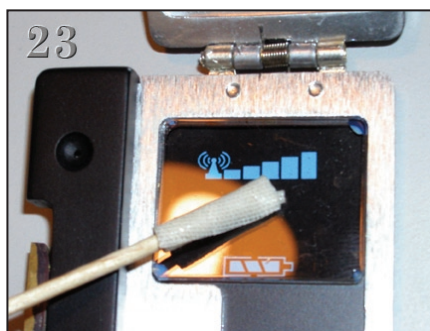
When done, the latch should work as in **Figs.16 to 18**.

**Step 10:**

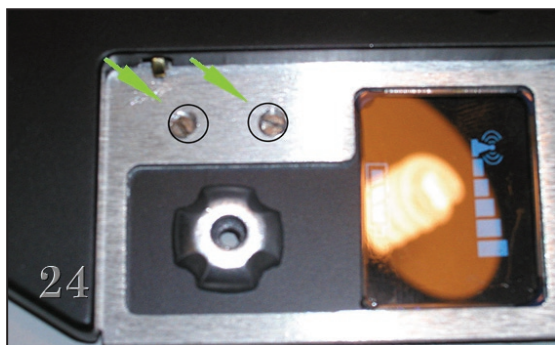
Secure the front frame to the center plate, using 5 @ 0-80 x 3/16 flat head screws **[Fig. 19]**.

**Step 11:**

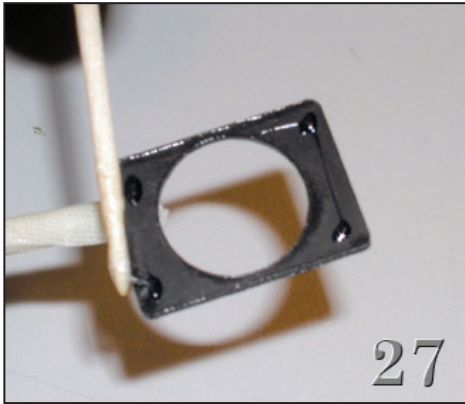
Place one of the graphics behind the screen opening and secure with tape at the back [Fig. 20 and 21]. If you are installing electronics with a light-up display, use the transparent graphic and the smoke gray window so light will shine out the best. But if you have no plans for electronic effects, use the paper graphic and the clear window so the graphic is easily seen.

**Step 12:**

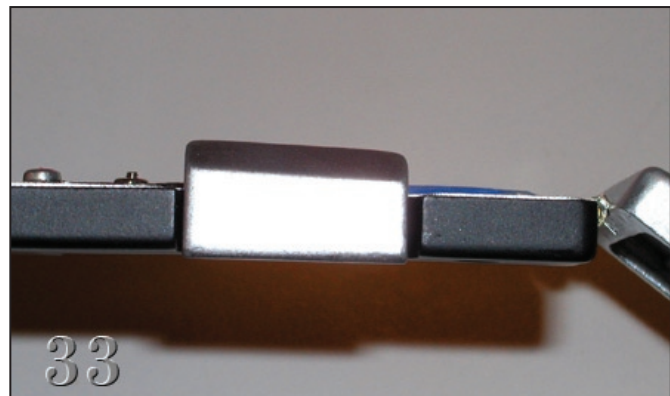
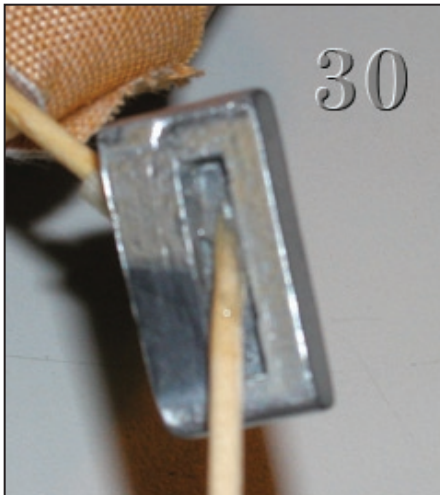
Using Testors Clear Parts Cement, put a tiny drop on each of the four corners of the window and secure to the communicator's display screen [Figs. 22 and 23]. Hold small parts with a toothpick with sticky tape wrapped around the end.

**Step 13:**

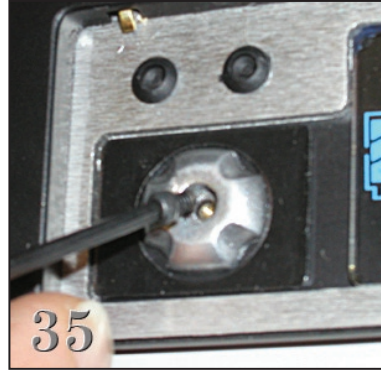
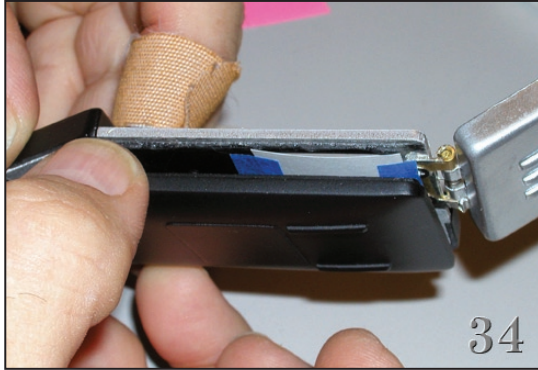
Glue the 4-lobed knob on the control plate with epoxy, centered over the hole [Fig. 24]. Also, glue the two small buttons over the screws [Figs. 25 and 26]. Note that for the best look, they should be placed as illustrated with the black circles in Fig. 24.

**Step 14:**

Glue the knob detail plate with epoxy to the communicator [Figs. 27 and 28]. The knob and button assembly should look like Fig. 29.

**Step 15:**

Apply epoxy to the slot on the latch button block and glue to the brass latch, with the flat side towards the front. Be careful you don't get glue where the latch goes in the communicator body [Figs. 30 to 33].

**Step 16:**

Place the main body back cover on the communicator [Fig. 34]. This is secured using the 2-56 Allen screw through the 4-lobed knob. Do not tighten it too much [Fig. 35].



Your *Star Trek: Enterprise* Starfleet Communicator is finished!

IMPORTANT NOTES:

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