

Example 1:



Example 1: 806175 Heart Knobs

Example 2:



Example 2: 806179 Large Round Knobs

General Materials:

- Knob or Handle Mold (See Below)
- 16 or 18-Gauge Nichrome Wire Posts (Each ~1.5" L, Included with Mold)
- Knob Hardware
- Fusible Compatible Glass
- Suitable Glass Separator/ZYP
- Materials for Paper Posts (See **Page 2**)
- E6000 or Similar Strong Adhesive

Table 1: Full Fuse *

Seg.	Rate	Temp (°F)	Hold
1	250	1360	20
2	200	1460	15
3	9999	950**	60
4	100	815	05

**If using COE90, adjust this to 900°F

*Before firing, it's important to know your kiln to see if you need to adjust our suggested schedules for your use.

Basic Fused Glass Knobs and Handles

Creative Paradise Inc.

Begin by preparing the mold thoroughly with suitable glass separator. We recommend spray-on ZYP. **Make sure to wear a mask when applying spray-on separator or using powder frits.**

While the separator dries, create the paper posts that will go into the mold to reserve space for the later hardware. There are a few options, so refer to **Page 2** for more details.

Once you've made the paper posts, place the exposed wire end of the post into the hole at the center of the round cavity within each knob (**Image 1**). Adjust the posts to make sure they're centered and resting in the lower cavity of the mold. Note that each handle in the LF53 Bar Handles requires two posts.

After the posts are in place the mold can be filled. We suggest using medium grain frit with just a bit of fine for the lower portion of each cavity around the post, but after that any other types of fusible compatible glass such as other frit, pieces of dichroic, or bits of stringers or rods can be used. Take care when placing the glass to avoid scraping any separator off the sides of the mold.

Once filled, sweep the glass away from the mold edges towards the center of each cavity to avoid burrs (**Image 2**). Transfer the filled mold to a level shelf in the kiln and fire using the suggested schedule found in **Table 1** or your own preferred full fuse.

After the kiln has cooled, gently invert the mold to remove the glass (**Image 3**). Remove the paper posts and rinse the knobs to remove any residual separator or paper.

Insert the threaded brass anchor into each knob cavity to test for clearance. It should fit easily, but if it doesn't it may be necessary to use a drilling tool with a diamond crusted bit to clear any obstructions. Place a dab of E6000 glue or similar strong adhesive on the end of the brass anchor and insert it into the cavity. Allow the glue to dry and thread the screw in to complete (**Images 4 & 5**).

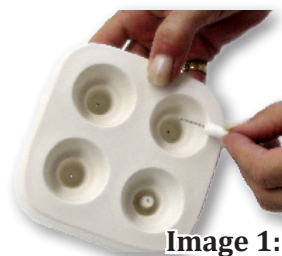


Image 1:



Image 2:



Image 3:



Image 4:



Image 5:

Knob and Handle Molds:



**806165
Round Knobs**
Knobs: 1.25" Dia. each
Fill Weight: 16g each



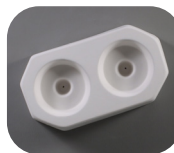
**806166
Square Knobs**
Knobs: 1.5" x 1.5" each
Fill Weight: 28g each



**806167
Bar Handles**
Handles: 5" x 1" each
Fill Weight: 45g each



**806175
Heart Knobs**
Knobs: 2.25" x 2" each
Fill Weight: 29g each



**806179
Lg Round Knobs**
Knobs: 2.25" Dia. each
Fill Weight: 32g each



**806180
Lg Oval Knobs**
Knobs: 2.5" x 1.75" ea.
Fill Weight: 29g each

Making the Paper Posts:

Method 1: Disks

Method 1 Materials:

- Hole Punch
- 1/8" Thick Fiber Paper
- Thinfire Paper or Kiln Shelf Paper
- Masking Tape

Use a standard hole punch to punch out five disks from 1/8" fiber paper. Use the posts provided with the mold (or a piece of 16-gauge nichrome wire around 1.5" long) to skewer the five disks so the post runs through the center of each (**D1**). Push the fiber paper disks to one end of the post without deforming them too much.

Wrap a 0.5" x 1.25" piece of kiln shelf paper around the fiber paper disks on the nichrome post and use a small piece of masking tape to keep it tight (**D2**). Don't overtighten the kiln shelf paper or deform the fiber paper below it.



D1:



D2:

Method 2: Fiber Paper

Method 2 Materials:

- 1/8" Thick Fiber Paper
- Thinfire Paper or Kiln Shelf Paper
- Masking Tape

Method 2 Materials



FP1:



FP2:



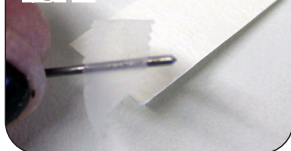
Cut a 0.5" x 1" piece of 1/8" thick fiber paper and a 0.5" x 1.25" piece of kiln shelf paper. Place the kiln shelf paper over the fiber paper and roll them tightly together. Secure the roll with a small piece of tape (**FP1**). Insert the post into the center of the roll (**FP2**).

Method 3: Kiln Shelf Paper Only

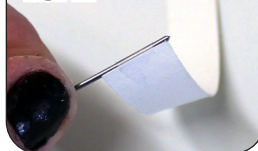
Method 3 Materials:

- Thinfire Paper or Kiln Shelf Paper
- Masking Tape

KSP1:



KSP2:



KSP3:



Cut a 0.5" x 10" strip of Papyros or a 0.5" x 12" strip of Thinfire Paper (they have slightly different thicknesses, hence the length difference). Tape one end of the strip to the nichrome post so the tape is on both sides of the paper (**KSP1 & KSP2**), then wind the paper tightly around the post (**Image KSP3**). Secure with a small piece of tape.

Notes & Alternate Methods:

The necessary hardware for installing finished knobs is one threaded brass anchor and one suitably sized screw per knob (or two per 806167 Handle). These can be purchased in sets of ten using item #93202.

If you are able to either source or make ceramic rods with a diameter just larger than that of the brass anchor, a small segment prepared with glass separator will also function as a reuseable post. Reapply glass separator as needed between uses.

Regardless of method, **be sure the paper posts are slightly larger in diameter than the brass anchors** (which are 1/4" in diameter) before inserting them into the mold.

Posts and Hardware



Example 3:



Example 3: LF53 Bar Handles

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