

# Spinning Glass Pinwheel

*Creative Paradise Inc.*



## Materials:

- [GM140 Fan Flower](#)
- Fusible Compatible Glass
- Suitable Glass Separator/ZYP
- Glass Cutting Supplies
- Kiln Shelf Paper
- [Spin Kit Hardware](#)
- 1/4" Copper Tubing
- E6000 Glue or Similar Strong Adhesive

Create a beautiful and functioning glass pinwheel with Creative Paradise's GM140 Fan Flower mold and a few bits of hardware!

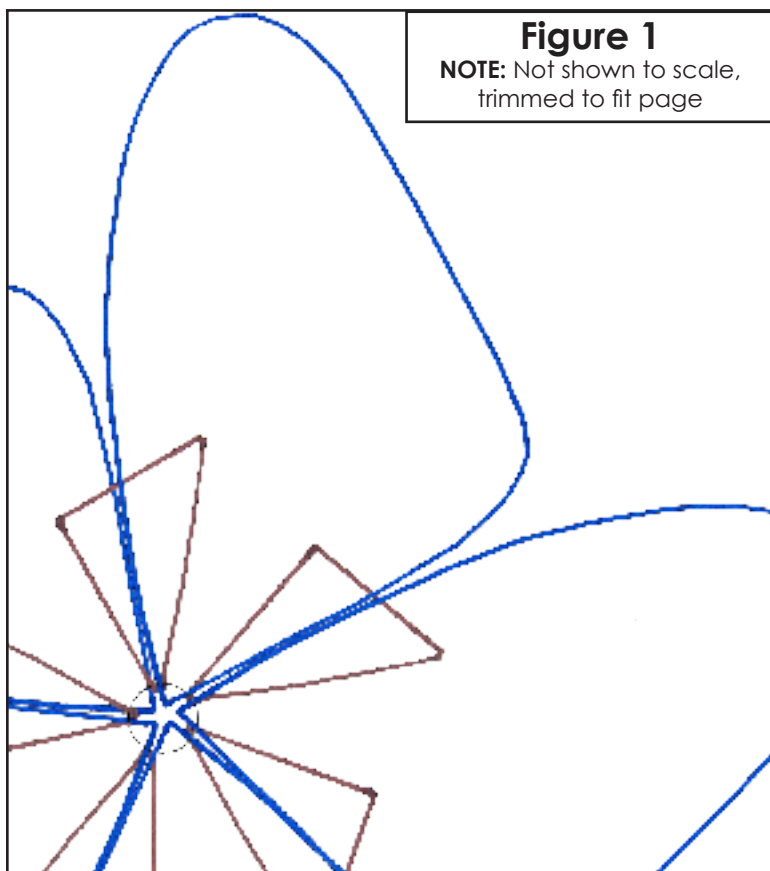
Before beginning, prepare the mold thoroughly with suitable glass separator. We recommend spray-on ZYP. **Remember to always wear a mask during application if using a spray-on separator.**

## Fusing the Glass:

Cut five copies of **Pattern 1 (Page 2)** and five copies of **Pattern 2 (Page 2)** from your fusible compatible glass of choice and arrange them onto a suitably sized sheet of Kiln Shelf Paper as shown in **Figure 1**. Make sure there is a 1/2" void where the pattern pieces meet in the center to leave room for the hardware after firing. You can nip the ends of the pieces with a Mosaic Nipper if necessary.

Cut a 3/4" circle of your fusible compatible glass of choice to use as a center piece to glue on to the screw used to join the pinwheel together. Place this circle on the Kiln Shelf Paper away from the pinwheel pattern so they don't merge when firing. Transfer the paper with the glass to a level shelf in the kiln and Tack Fire using the suggested schedule in **Table 1** or your own preferred Tack Fire schedule.

Once the glass has cooled, remove it from the kiln. Take the fused pinwheel pattern and center it on the GM140 that has already been treated with glass separator on a level shelf in the kiln and Slump using the suggested schedule in **Table 2** or your own favorite Slumping schedule.



**Figure 1**

NOTE: Not shown to scale, trimmed to fit page

**Table 1: Tack Fire\***

Seg.	Rate	Temp (°F)	Hold
1	275	1100	15
2	200	1225	10
3	200	1400	10
4	9999	950**	90

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

**Table 2: Slump\***

Seg.	Rate	Temp (°F)	Hold
1	275	1000	10
2	275	1215	20
3	275	1230	02
4	9999	950**	90

\*\*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. For tips on how to do that, [please click here to see our Important Firing Notes!](#)

## Assembling the Pinwheel:

To make the pinwheel spin you will need the following hardware (available in the [Spin Kit](#)):

- Sleeve Bearing (1/4" x 5/16" x 3/4")
- Threaded Spacer (#8 32, Female, 1/2" L x 1/4" O.D.)
- Flat Head Machine Screw (#8, 1.5" L)
- 2x Rubber Washers (5/16" I.D x 3/4" O.D)
- Flat Metal Washer (#8, 1/2" O.D)

### Assembly Steps (Figure 2):

1. Place the bronze sleeve bearing into the hole in the center of the glass portion of the pinwheel. The hole in the glass may require filing or dremeling to fit the 5/16" diameter of the bearing.

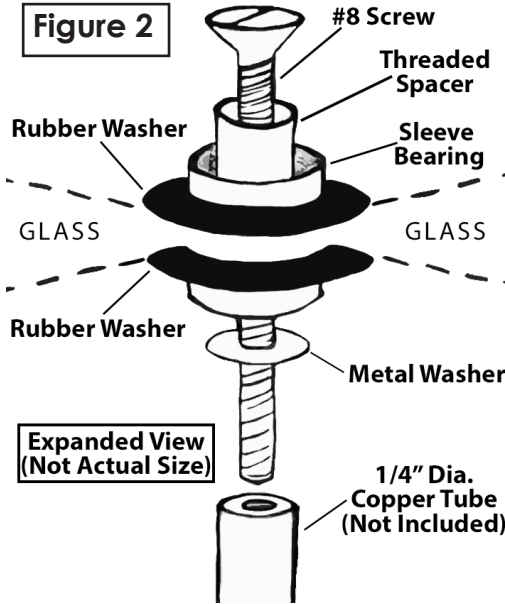
2. Place a rubber washer onto the bearing on the front side of the glass pinwheel and the other rubber washer onto the bearing on the back side of the glass pinwheel. Make sure the bearing is straight through the glass and not angled in any way, then use E6000 glue or a similar adhesive to adhere the rubber washers to the bearing and the glass between them. Allow the adhesive plenty of time to dry.

3. Place the threaded spacer onto the screw and thread it through to the head of the screw. To help with threading, you can place a bit of lubricant such as ZYP glass separator on the outside surface of the threaded spacer.

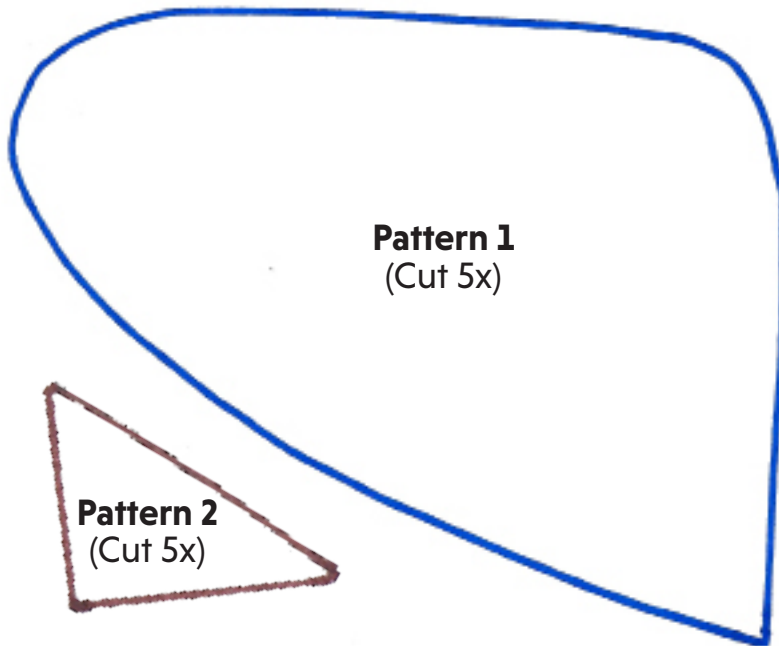
4. Insert the screw with the spacer into the bearing holding the glass.

5. Cut your desired length of 1/4" diameter copper tubing (not included in Spin Kit) with a pipe cutter. The cutting process will create a slight flange at one end of the tube that will act as a thread for the screw.

6. Slide the flat metal washer onto the screw below the bearing with the glass and thread the screw into the flanged end of the copper tube. Tighten so that no screw thread is visible but don't over-tighten. The bearing must rotate freely atop the flat washer to create a spinning pinwheel.



## Pinwheel Patterns:



To make sure your pattern pieces are sized correctly for the mold, make sure to print this page at **"Actual Size"** or **100%**.

For more information, tutorials, and molds, visit our website:  
[www.creativeparadiseglass.com](http://www.creativeparadiseglass.com)

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