

**H. L. Worden Co.**  
**"Make a Lamp"**  
**System**

**GF16-12 Black-Eyed Susan T**

Rev. 11/12

Cartoon Pattern Packet



**Lamp Specifications**

No. Glass Pieces: 776  
 Glass Needed: 6.6 sq. ft.  
 Diameter: 16"  
 Height: 8"  
 Aperture: 3"  
 Design Repeats: 4

**Needed to make this lamp**

Pattern Packet No. GF16-34\*  
 FullForm™ No. GF16\*\*  
 Stained Glass  
 Lamp Base or Hanging Hardware  
 to Swag

**Additional Items Needed**

Basic Supplies  
 Basic Tools

**\*No. GF16-12 Pattern Packet**

**Includes:**

1 Paper Pattern Sheet  
 4 MagicStrip™ Sheets  
 1 Instructions  
 1 Color Key w/ Glass Descriptions

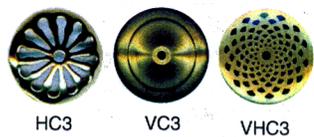
**\*\*No. GF16 FullForm™**

360° form embossed and  
 numbered to accept glass  
 placement guides (cartoon)



One Reusable FullForm™ is used  
 to make this 3-repeat design

**\*\*\*3" Vase Cap**



Need One 3" (7.6cm) Vase Cap  
 Sold Separately

Lamp		Key	Description	Glass Type	Sq. Ft.
Color					
	N	Background	Amber Opal	3	
	P	Petals	Orange Opal	2.5	
	L	Leaves	Green Opal	.75	
	S	Stems	Lt. Green Opal	.25	
	C	Centers	Red/Brown Cathedral		1.25

Paper Pattern  
 MagicStrips™  
 MADE IN USA

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## FULL FORM CONSTRUCTION TIPS

Follow the Basic Method detailed in the WordenSystem™ Instruction Manual.

- (1) Select, cut, trim, and pin all stained glass pieces over the MagicStrip™ cartoon on the form. COMPLETELY COVER THE FORM. Use glass headed pins or common pins. Be sure to push the pins all the way in to hold each glass piece securely.
- (2) To ensure the vase cap will be level: If using a positioner; place vase cap at the top of the form; secure with a lock nut; cut and fit glass to the vase cap; tack solder before removing shade from the form.  
If not using positioner: place a 4" threaded rod through the hole in the form; place vase cap at top of the form; put a second vase cap or a check ring or washer inside the form; secure with lock nuts at both ends of the rod; cut and fit glass to the vase cap as above. If necessary, trim the top of the form to fit the vase cap in place.
- (3) To foil, pull the pins part way out, just far enough to remove each glass piece one at a time; foil & repin.
- (4) Tack solder all glass pieces together. Wipe and burnish with a wet cloth to stop oxidation.
- (5) Remove all of the pins. Leave the lamp on the form and make a flat seam by tinning all exposed copper foil. Wipe and burnish with a wet cloth.
- (6) DO NOT BUILD ROUNDED SEAMS ON THE FORM. Remove the lamp and fill and then build the inside seams then do the outside.  
By filling the inside first, any flow through will be removed when building the outside seams.

## Foil Wrapping Small Pieces

When foiling small pieces such as flower centers, flower petals, and leaves, it is best to overlap foil on glass approximately 1/64"; wider foil will cover too much of the glass. The exception is on small pieces at the top of the lamp. These pieces should be wrapped with at least a 1/32" overlap. Copper foils less than the overlap adds strength to the lamp. If the backing foil is too wide, it can be easily trimmed with scissors; place while trimming, the untrimmed for nice even seams.



Use our No. 330 Positioner for full forms. The No. 330 is also used with partially finished shades whether built on sectional or full forms. Once the vase cap is installed put your lamp on the No. 330 and position the shade to have a level surface for final soldering.



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