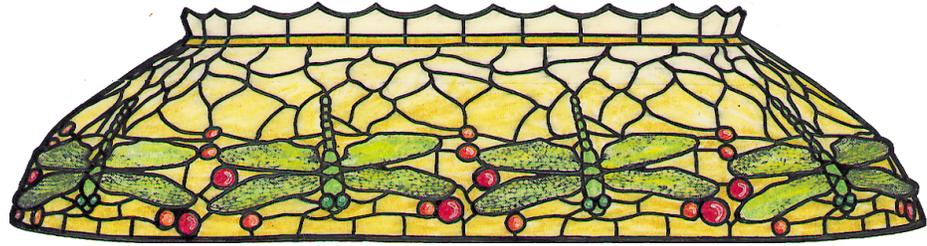


H. L. Worden Co. "Make a Lamp" System

C234-2 Spreadwing Dragonfly T

Rev. 5/15

Cartoon Pattern Packet



Lamp Specifications

No. Glass Pieces: 618
Glass Needed: 18 sq. ft.
Height: 10"
Aperture: 4"
Design Repeats: 10

Needed to make this lamp

Pattern Packet No. C234-2*
SectionalForm™ No. C234**
SectionalForm™ No. C20**
Stained Glass
3 -4" Vase Cap***
Lamp Base or Hanging Hardware
to Swag

Additional Items Needed

Basic Supplies
Basic Tools

*No. C234-2 Pattern Packet

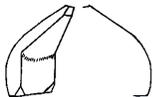
Includes:

3 Paper Pattern Sheet
3 MagicStrip™ Sheets
1 Instructions
1 Color Key w /Glass Descriptions
10 sets Etched Filigree (40 wings)



**No. C234 SectionalForm™

Flat Panel form embossed and
numbered to accept glass
placement guides (cartoon



**No. C20 SectionalForm™

1/6 SectionalForm form embossed
and numbered to accept glass
placement guides (cartoon)
One each Reusable
SectionalForm™ is used to make
this 10-repeat design

*** 4" Vase Cap



HC4 VC4 VHC4

Need 3 - 4" (7.6cm) Vase Caps
Sold Separately

Lamp Color	Key	Glass Type	Sq. Ft.
UN	LN, UBd	Amber Opal	13
B&W		Olive Green Opal	5
E	13mm Jewels	20	
	Asst. Jewels	60	

Paper Pattern
MagicStrips™
MADE IN USA

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Sectional Form Construction Update

New easy time saving techniques that make lamp crafting more fun. To assure that the completed lamp is perfectly round and the form is not melted from solder flow through, follow the steps below. Refer to the manual.

- (1) Cover the form with parts - hold with pins.
- (2) Pull pins part way out, foil and repin.
- (3) Tack solder all parts together.
- (4) Flatten the solder tacks out and tin the exposed foil on the outside with a flat seam. - DO NOT FILL OUTSIDE SEAMS ON FORM.
- (5) REMOVE the glass sections as they are completed and store.
- (6) USE SOLDER LOOPS. The discovery of solder loops to hold the sections until they are fastened together is so easy to do. You can adjust the glass sections by bending the sections slightly if necessary for a perfectly round fit before tack soldering together.
- (7) The lamp is now ready to complete. Fill and build all the inside seams, then do the outside. By filling the inside first any solder flow through will be removed when building the outside seams. If you are making several lamps consider using Worden Lamp Positioner to build seams it works great.



Dragonfly Filigree-The wings of the original lamps made by the Tiffany Studios were constructed of flat streaky opal art glass. The filigree was soldered on the outside giving a natural three dimensional look to the dragonflies. Solder is built up to fill the gaps where the wings are above the form. DO NOT cut the small round part on the body end, this represents the wing muscle attached at the top of the Dragonfly body. Tinning and Antiquing- We have found it best to solder the filigree in place after the lamp is completed, cleaned and antiqued. BE SURE AND LEAVE A FLAT SEAM AROUND THE OUTSIDE EDGE OF EACH GLASS PIECE THAT IS TO BE COVERED; SO THE FILIGREE WILL LAY FLAT NEXT TO THE GLASS. Prepare the filigree for antiquing, by tinning it first. To tin: lay it on a flat wooden surface, leave the filigree fastened together, clean by rubbing with steel wool (brass conducts heat; use a heavy glove to hold it in place) brush on a generous amount of flux, use a clean freshly tinned soldering iron set on high heat. Rub the surface with the flat part of the iron tip, use a very small amount of solder, just enough to turn the surface a bright aluminum color, do both sides, rinse and pat dry. Next antique the outside of each filigree part, try not to get the antiquing solution on the edge, rinse and dry, cut apart, and solder it on top of the foil overlap around each glass part, build up a nice rounded seam and carefully antique the edge trying not to stain the glass under the filigree. Use household shears to cut the filigree apart.

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