

**Parts Included**

**Motor**  
**Signal Arm**  
**Mast**  
**Printed Graphics**  
**Brass Etch Parts** *Not Used*  
**Stainless Steel Etch Parts**  
**Decals Now Included**

**Tools You May Need:**

1/32" Drill Bit  
 Needle Files  
 Dremel Tool  
 CA (Super Glue)  
 Flat-Nose Pliers

**We recommend using Duro brand Super Glue to assemble the parts.**

**Optional Tools That May be Helpful:**

Photo-Etch Bending Tool

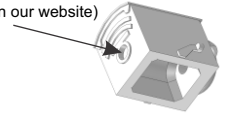
(We recommend **The Small Shop** brand of tools and is available at Showcase Miniatures)

**Clean and Deburr all Parts** before beginning assembly.

**Do Not Remove the Photo-Etch Parts from their fret yet - Painting Recommendations on back.**

**Before Applying Glue** Test fit all parts.

**Drill Opening In Motor**  
 With 1/32" Drill Bit (available on our website)



**Folding the Brass Framework**

**1** **Cut the Etched Framework**  
 From the Fret with a sharp Knife on a hard surface.

**2** **Fold the Framework**  
 INTO the etched joints With the etched joints **UP**.

**Etched Joints UP**

**3** **The Framework Tabs**  
 Can be folded using Flat Nose Pliers or a Photo-Etch Bending tool.

**"The Bug"**  
 Manufactured by The Small Shop and available at Showcase Miniatures

**4** **Fold and Press Down on a Hard Surface**  
 If you are using flat nose pliers To give a crisp 90 deg bend.

**5**

**The First Fold**

**Finishing the Framework**

**6**

**Continue folding the Side Tabs** around the Framework.

**7**

**Fold the Bottom Tab as shown**

**8**

**The soft Brass Framework is very forgiving if it is necessary to flatten and re-fold any of the tabs.**

**9**

**The Final Fold**

**10**

**Finished Framework**

**Carefully hold the framework together at the joints with tweezers and apply a tiny drop of CA glue - working around the perimeter of the framework.**

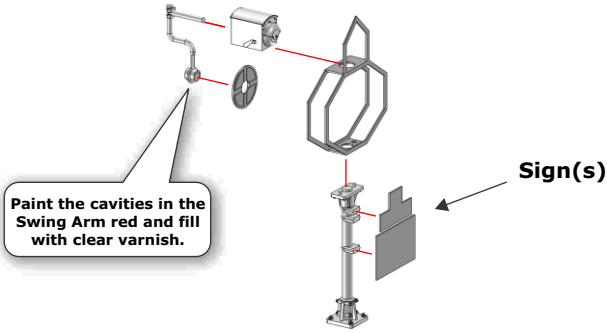
**Painting / Finishing**

Provided in the kit is a variety of options to finish the model.

Printed graphics (both weathered and un-weathered) are included. These can be cut out and attached with CA type super glue. We have also now included a waterslide decal. The decal is as thin as paint and should be handled with much care.

For finest detail, the photo-etched parts can be used. Below are the steps we used to get crisp black and white finish on signs and the wigwag target disk.

**Final Assembly**



**For Reflective silver Lettering on Black Background:**

Paint the entire fret Flat Black and, once the paint has COMPLETELY dried, carefully scrape away the black paint to reveal the raised detail.

**The Magnetic Wigwag Flagman Model 11**

The Magnetic Wigwag Flagman is a standard wigwag type railroad highway crossing signal used to automatically indicate and warn highway traffic of the approach of a railroad train. A visual warning is presented in both directions by a horizontal swinging red light and disc, and an audible warning by the sound of a gong at each stroke of the wigwag banner.

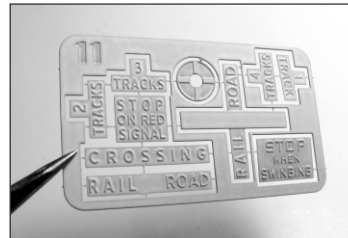
The effective danger warning given by a swinging red light is universally understood and recognized as meaning STOP. The use of the wigwag signal with its swinging red light in wigwag banner disc for the one and only purpose of protecting highway crossings, provides an unmistakable warning that a railroad train is approaching.

The Magnetic Wigwag Flagman Model 11 provides an effective visual warning display including swinging movement of Wigwag Banner Disc and swinging display of Flashing Red Light indicating towards approaching highway traffic in both directions.

Wigwag Mechanism Bell furnished as standard unless otherwise specified provides effective audible warning sounding with each stroke of wigwag banner.

Standard location at near right hand side of highway as viewed by approaching highway traffic, with one signal at each side of railroad tracks....*The Magnetic Signal Co. Manual.*

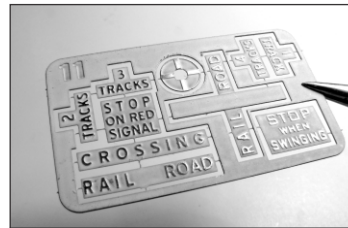
**For Black Lettering on a White Background:**



**The entire Fret** was spray painted With a White Primer.



**Once the paint is COMPLETELY Dry** the paint on the raised detail was carefully scraped off the surface using a curved knife blade or 600 grit emery cloth (sand paper).



**The Entire Fret was dipped** into a solution of Black Oxide for Stainless Steel from EPI (Electrochemical Products Inc.)

[www.epi.com](http://www.epi.com)

This sample size will last for many projects.

Directions from EPI were **closely** followed to achieve very satisfactory results. We used it at full strength.

The product number is **Insta-Blak SS-370 (not the gel)**



You will need to call them because the sample (which is \$20 at this time) is not listed in the drop down menu online but they can assist you by phone at 262-786-9330