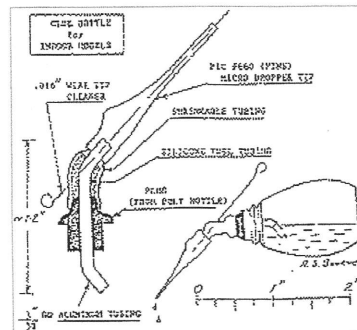


THE **ULTIMATE RESOURCE** FOR THE INDOOR  
RUBBER-POWERED MODEL AIRPLANE FLIER

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From SAM 86 speaks as Published in  
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A Micro-drop Glue Applicator for Indoor Models

BY ROY BOURKE MARKHAM INDOOR GROUP



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One of the secrets of building light indoor models is to pay attention to the glue joints. Excess glue is heavy, and does not necessarily add strength to the joint. A good glue applicator can go a long way to ensure the accurate placement of just the right amount of glue to each joint. The accompanying sketches show an excellent glue bottle that can be used with acetone-thinned model air- craft cement or water-thinned white glue or Titebond, as used on indoor models. incidentally, I did not design this glue bottle. It is available Commercially from the USA, but it is much cheaper to make one yourself.

The best poly-bottle to use is a small food colouring bottle (McCormacks food colouring), but there are several other poly bottles that could be used with minor modifications to the design. Begin by bending a piece of 3/32" aluminum tubing to the shape shown, and fit it to the plug that comes with the poly bottle that you are using. Make sure that you make the lower bend such that you can still insert the plug into the bottle without interference from the tubing.

Drill a small hole (0.016") in the upper bend for the wire tip cleaner, then cover the bend with a short piece of silicone fuel line. Add a piece of shrinkable tubing over the silicone tubing, shrink it in place, then add the Pic Micro-Dropper tip to the end of the aluminum tubing. Make up the wire tip cleaner, and insert it backwards through the nozzle to pierce a hole in the silicone end shrinkable tubings. Finally, re-insert the tip cleaner from the back end of the nozzle, and the glue bottle is complete.

To use the bottle, simply draw the wire tip cleaner back only far enough to clear the narrow part of the bore of the Pic nozzle, tip the bottle and squeeze. You will find you have excellent control of the amount of glue that appears the tip. During storage, the tip cleaner is left fully inserted to seal off the nozzle. Since polyethylene does allow some evaporation of the acetone, you should check the thickness of the glue periodically, and add acetone as necessary.



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