

## NOTES ON MAKING A TWIN PUSHER WINDER

The How To article on making a twin pusher winder from an egg beater was found through [DannySoar@world.net](mailto:DannySoar@world.net). Thanks to Danny Soar for permission to print it in the [PFFT Thermalier](#).

Here are a few comments to help on making your twin pusher winder. The tubing you need for the handle is "1/4". Step 7 is very important. This is what is going to hold all the

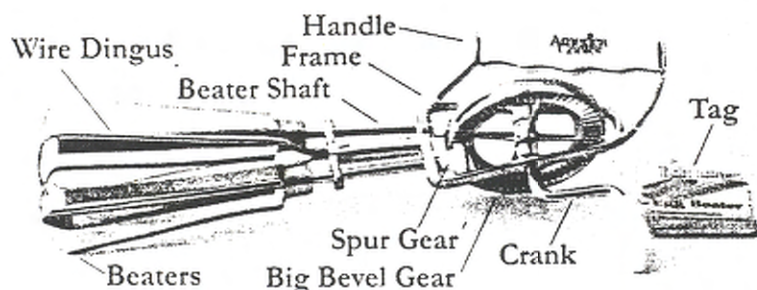
pull from two fully wound motors. I used steel split pins on the winder I made. The egg beater costs \$2.97 at WalMart. The gear ratio is 5 to 1 so counting turns is easy.

I have used the winder to wind up my Burnham Twin. It works great and is the way to go to crank up your twin pusher.

THANKS! PAUL GRABST

### FROM EGG BEATER TO WINDER

BEFORE



The first pic is of an eggbeater as found in WalMarts, dewy eyed and fresh from China. The second is what happened to the poor thing. Note the construction - - with the Beaters held in place by the Frame and Spur Gears. The following won't work on the kind of eggbeater where the Wire Dingus holds on the Beaters.

- 1) Pull off the Wire Dingus and dispose of properly.
- 2) Pull off the Beaters. These are press fit into the Spur Gears. Grab the Beater Shafts, with pliers and yank. This frees the Spur Gears which, if you don't watch it, will escape and run under the furniture. Save everything.
- 3) Remove and dispose of properly, the Beaters.
- 4) Hacksaw the ends of the Beater Shafts to your satisfaction.
- 5) Drill a small hole in the tip of each Beater Shaft. This is easier, if you first file a flat place on the Beater Shaft to start the hole.
- 6) Reassemble the eggbeater. It is a good idea to put a washer between the Spur Gear and the Frame. You want to make sure that, even with the load of the motors, the spur gears rests on the frame, not the rim of the Big Bevel Gear.
- 7) Drill a 1/16" hole through the shank of each Spur Gear and the Beater Shaft. Pin it with a short length of 1/16" aluminum tube.
- 8) Bend and install the piano wire hooks.
- 9) Check the action on a short motor anchored to a doorknob.
- 10) CA the pins in place. - - some optional steps to make the winding a treat - - -
- 11) Cut the Crank in half. At an auto supply place, get a short length of brake line, into which the Crank fits. And buy some JB Weld wonder epoxy stuff.
- 12) Cut a length of brake line and JB Weld yourself a crank extension.
- 13) From a piece of threaded rod and some fender washers (get them at the Home Supply place) fabricate yourself a handle.

AFTER

