

## There are several options for mounting the propeller shaft coupler onto the motor shaft:

1. Using the Krazy Glue included in the kit
  - a. Make sure that students do not blow into or put anything into the shaft coupler hole. I have seen students put the shaft couple on the motor shaft after the waxing process which pushes wax into the shaft coupler hole.
  - b. Wipe wax off of the motor shaft using a paper towel.
  - c. Clean the motor shaft using an alcohol wipe. Make sure to use a *clean alcohol wipe* that has not been used to wipe wax off of the motor case.
  - d. Roughen the motor shaft using fine grit abrasive paper (sandpaper). Clean the motor shaft using an *alcohol wipe*.
  - e. Make sure the motor shaft is not touched. Finger oil, wax, etc. will prevent the glue from properly sticking.
  - f. Apply a single drop of Krazy Glue onto the side of the motor shaft near the end of the shaft.
  - g. Apply a single drop of Krazy Glue into the hole in the shaft coupler.
  - h. Push the shaft coupler onto the motor shaft and make sure there is a 1mm to 2mm (1/32" to 1/16") gap between the shaft coupler and the motor canister.
  - i. Hold the coupler shaft in place for approximately 1 minute.
  - j. Wipe excess glue from between the shaft coupler and the motor canister.
  - k. Do not disturb the assembly for at least 15 minutes.
2. Using marine epoxy. This method provides a more permanent connection.
  - a. Follow the safety instructions and directions for the product being used.
  - b. Follow the procedure for using Krazy Glue, but put marine epoxy on the end and side of the motor shaft.
3. Modify the shaft coupler to use a set screw.
  - a. This procedure requires special tools and I do not have a guide written for this. See the attached a photo.
4. Solder the shaft coupler to the motor shaft
  - a. I used this method years ago and it works great. I have seen others use this method, but I do not recommend this for students as the solder drips and can cause burns. If this is done improperly it can damage the motor.

### Motor Care

Run motors in clean fresh water for 10 minutes at the end of each use

Store in a dry place