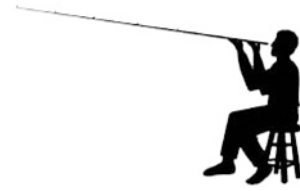


# Eight Rod Portable Dryer

By Sam Woolrich



How To Library

Custom Rod Builders Guild



One of the difficult things about holding a rod building class at a location other than your shop is having to transport a lot of individual rod dryer motors and stands. Finding electrical outlets may also be difficult at the new location. Extension cords and power strips can be a pain to deal with.

A simple portable dryer for eight rods such as the one pictured above can be made very inexpensively and is quite convenient. We used the materials listed below; however, please use these instructions and materials only as a guide. Substitute parts with things you have on hand.

## Materials Needed:

- 8 individual timing motors**
- 8 motor stands**
- 8 PVC end caps**
- 32 rivets about an inch long**
- 16 rubber bands**
- 8 rod supports**
- 2 48" 2X4s**
- 2 large drawer handle pulls**
- 1 box of wood or drywall screws**
- 1 male end of an extension cord**
- 8 single pole double throw switches**
- Roll of small gauge wire**
- Soldering materials or solder-less electrical connectors**

Start by making 8 stands for mounting the small motors. We used a molded stand, but any type of simple stand can be used. Mount the motor to the stand with the shaft of the motor sticking through a hole drilled

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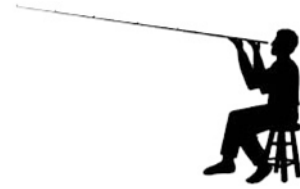
in the back of the stand. To the shaft attach some type of device to hold the rod handle. We drilled a small hole in the center of 8 PVC end caps and screwed it to the shaft. You might have to epoxy your cap to the shaft depending on the type of shaft on your motors.

We then drilled four holes in the sides of the end cap at 0, 90, 180, and 270 degrees just large enough to snugly push 1 inch rivets from the inside out. Keep the holes near the outer edge of the end caps. Stretch a rather wide rubber band from one rivet to the opposite rivet. Then do the same thing to the remaining rivets

with another rubber band. These bands will allow you to center the rod handle in the dryer and works quite well.

Next screw the base of each dryer stand to a four foot 2 X 4 at 6 inch intervals. Screw the rod supports to the other 2 X 4 at the same intervals. Finally screw a handle pull on the edge of each 2 X 4 in the center of each.

All that is left is to wire the connections together. We wired the switch to the motors in series and each switch and motor in parallel with the rest. Please see the attached wiring diagram.



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Photo A



Photo B



Photo C



Photo D



Photo E

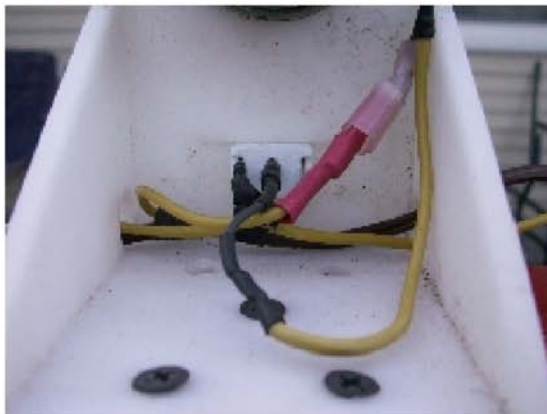
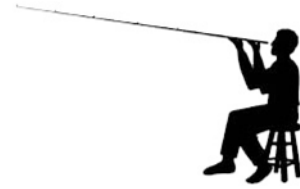


Photo F

Photo A; The completed rod dryer.

Photo B; Rear view of the motor stand.



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Photo C; Carrying Handles

Photo D; Rubber bands in place.

Photo E; Wiring of a motor.

Photo F; Close-up of the wiring.

