

Hello!!

Thanks for buying the RW-10 in kit form, if you need me, call anytime during your build for answers to your questions at (949) 582-7720 - TRIS

Helpful hints: Work slowly and always pre drill holes with a 1/6" drill bit.

Tools needed:

Hand Drill with assorted bits

Elmer's Yellow glue

5min epoxy

Soldering iron

Philips Screw driver (powered screw driver would be best)

Pliers

Shop Stapler 1/4" staples

Parts:

1 - Wood box w/ Tolex

2 - Wood caps Top and Bottom (they are the same) w/Tolex

1 - Foam Cone

2 - Rubber dampening pads

1 - Foam Core Sheet

1 - Steel Washer

1 - Handle

4 - Feet

1 - Metal front plate

1 - Plastic back plate w/ speed control

1 - Speaker

1 - Motor

1 - Wood disk

1 - Motor Bracket

1 - External Foot Switch

1 - Power supply

1 - White knob

4 - Grill cloths

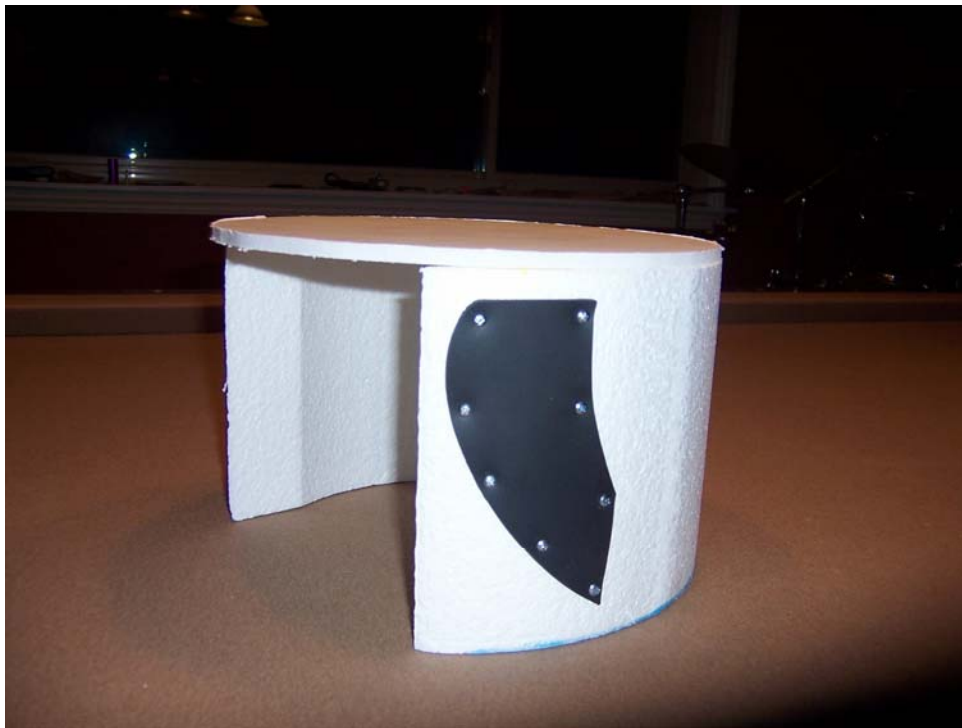
Assemble Foam Rotor:

The "Foam Cone" is the key to the unit and is the most difficult to assemble.

To make the spinning cone all you have to do is cut the flat "foam core" in a circle to match the "foam cone". Then glue using Elmer's yellow woodworkers glue. Let Dry.

Next, place the Rubber dampening pads on the foam cone (one on each side of the opening). Use the supplied screws to hold them in place. Here's what it should look like:

The opposite side looks the same, but the rubber is turned the other way.



Foam Cone with Rubber Dampening Pads

Next, place and glue the steel washer on the foam core centered like the photo. You're done assembling the Foam Cone!



Interior of Foam Cone with steel washer

Assemble Motor w/wood disk: *(a little tricky)*

Drill the center of the wood disk ***(please use a compass, it must be centered)***.
Drill size: 3/8"

Using 5 minute epoxy attach the wood disk to the motor. Add a little glue to the gear first – then slip it on. Add a little more glue to the top of the wood disk.
MAKE SURE IT IS STRAIT OR IT WILL WOBBLE!!!!!!!!!!

Spin it with your finger to make sure it is as true as possible.

Let all parts dry completely and set aside.



Wood disk glued to motor

Install Metal Plate with Speed Control Knob:

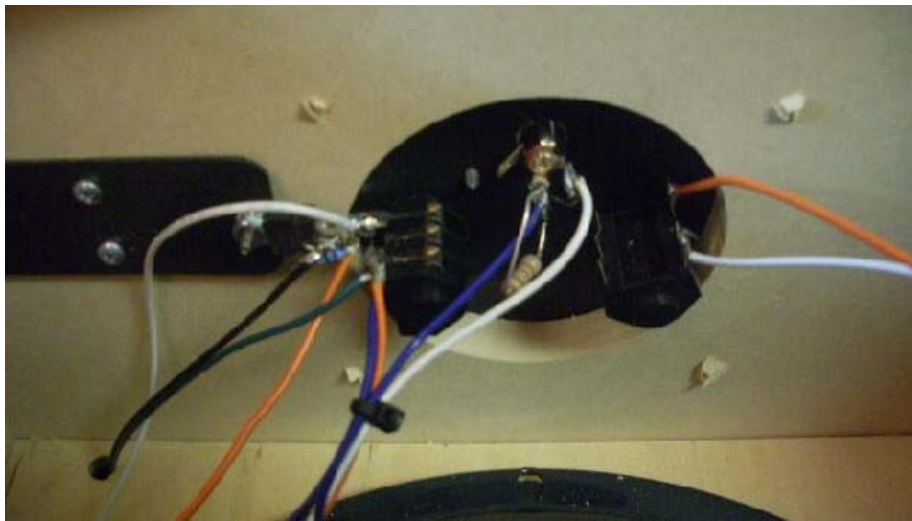
Attach the small round metal plate with the speed control pot to the front of the box and attach with 3 screws. Add the white knob.



Interior view of wiring to speed control pot

Install Speaker Jack, Footswitch Jack and Power Supply Jack Panel:

Set the entire plastic plate with the two ¼" female jacks and wiring assembly into the large hole in the back of the wood box. Insert the wires through the hole from the outside of the box and then attach the panel with four screws (#6 x ½"). You will have to drill a 5/16" hole in the plastic plate for the Power Supply Jack (see picture below). Insert the Power Supply jack into the hole and attach with the nut and washer already on the jack.



Interior view of Speaker, Footswitch and Power Supply Jack Panel



Exterior View of Speaker, Footswitch and Power Supply Jack Panel

Drill a hole for wire to pass through the speaker baffle:

Drill a ¼" hole toward the edge of the speaker baffle (the center board with the hole for the speaker) to allow the motor wires to run up the inside of the cabinet from the speed control to the motor. (Notice in the picture above, the wires going through the hole . You will connect these wires when you do the final assembly. It's okay to add a few staples to hold them out of the way so that the rotating foam cone will not rub on them.

(It does not matter which wires go where on the motor)

Are you doing all right or do you want to kill me?

Once again, my phone number is: (949) 582-7720 if you have any questions.

Ports:

This can be a little tricky since the box is shipped to you completely covered with Tolex. The idea is to cut the opening for each port while having enough material to wrap into the inside of the box.

The way I do it is to cut in an "X" fashion. In other words, if you make an "X cut" starting from center of the port, you should have 4 "flaps" for each port. These flaps can then be stapled inside the unit. Once they are stapled inside the box, you can trim the excess material if you like.

Once the ports are finished, staple in the grill cloth to cover the openings.

Final Assembly:

Screw in the 10" Speaker, solder the wires from the jack to the speaker, take note of polarity.

Screw in the "Motor Bracket" to the under side of the "Wood Top" using the #6 x1/2" wood screws. The clamp must be centered. I do this by drawing an "X" on the wood.

Mount the "Motor and wood disk assembly" in the motor bracket. Add (6-32 screw with nut) to clamp in the motor.

Now glue the foam cone assembly (using yellow wood glue) to the wood disk, (IMPORTANT: spin SLIGHTLY to make sure the "Foam cone" is on strait AND centered.

Make sure it does not wobble left to right. THIS is CRITICAL!

LET DRY! 30 min.

You are almost there, looks like a good time for a beer! Coke?



Motor, Wood Disk and Foam Cone Assembly

Mount the Top (w/motor and foam cone assembly) to the main cabinet using the #6 x 1 1/2" wood screws (remember ,pre drill with 1/16" Drill) add the handle using

the #6 x ¾ screws.

Mount the “Wood Bottom” to the main cabinet using the #6 x 1 ½” wood screws (pre drill with 1/16” Drill) add the 4 rubber Feet.



DONE!! PLUG IN AND WAIL !!!!!!!!!!!

Sincerely, - Tris