

# K-3378 ASSEMBLY INSTRUCTION

## GETTING STARTED

This kit is oriented towards experienced hands-on people. You must have a basic knowledge of soldering, and simple hand tools. We supply the parts, you the tools, including phillips screwdrivers, hand drill, suitable bits, an awl or ice pick, various pliers, side cutters, solder, and a soldering iron. Do not use a heavy duty iron made for large mechanical items, but a lab style iron similar to the shown.

Read carefully, as **you are entirely responsible for mistakes.**  
Refer to our ***PARTS PICTORIAL***. If in need of clarification, contact us by email. We will only replace defective parts and not ruined parts.



## DECK PREPARATION



This step may not be necessary. The factory applied a wax-like material to the laminate material and then put it in a plastic bag for shipping. Sometimes this results in a deck surface that displays marks from the plastic bag. These may be under the platter area and thus inconsequential, but if annoying you can try the following.



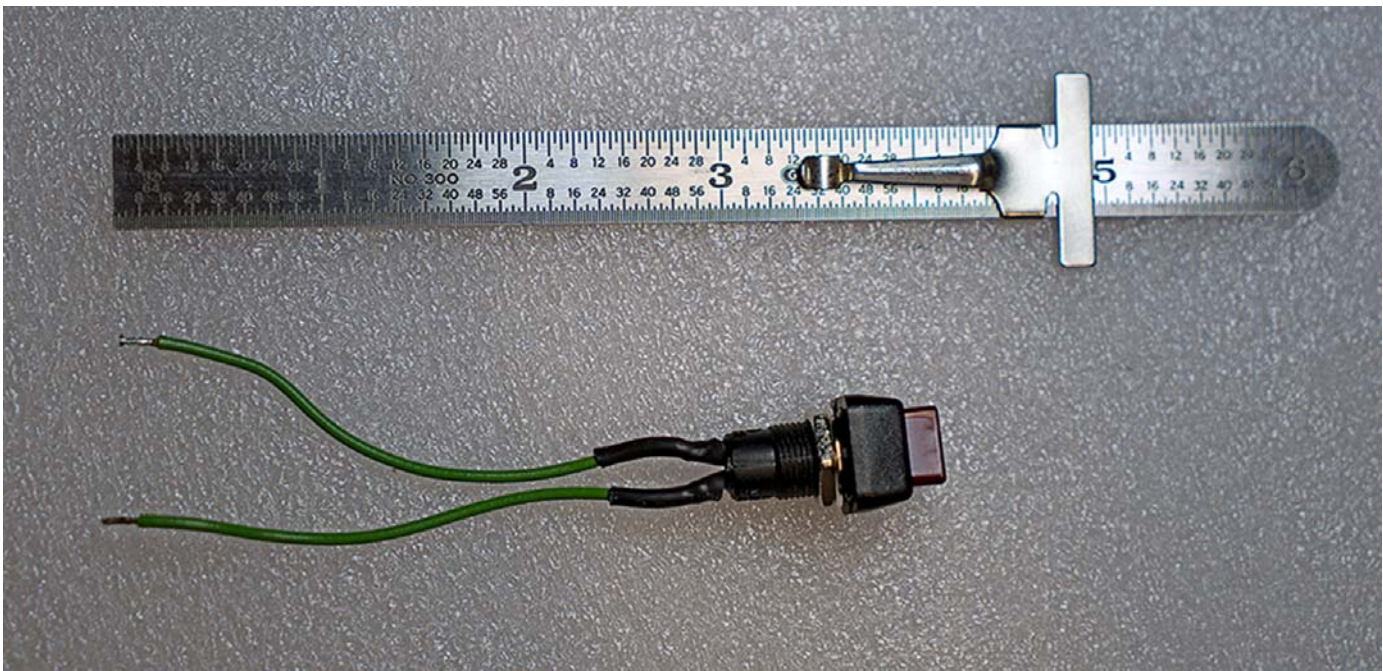
Apply a small amount of ArmorAll Interior Detailer onto a paper towel and rub it into the entire surface. The sides are not necessary. Let set a few minutes and remove as much as possible with an additional paper towel. Do a lot of rubbing.

## SWITCH PREPARATION

Cut two 3-1/2" lengths of lead wire and strip just under 1/4" of insulation off of each end. Fold a bare lead end of each over the lugs of the switch. Solder just long enough for a solid solder join. Don't linger. We don't want to overheat the switch.

Next, slip a 3/4" length of shrink tubing over each lead, and draw them up the the switch body. Use the soldering iron tip's side with great care to heat and shrink the tubing over the switch pins as shown.

**AVOID TOUCHING THE PLASTIC BODY AND THREADS WITH THE IRON!**

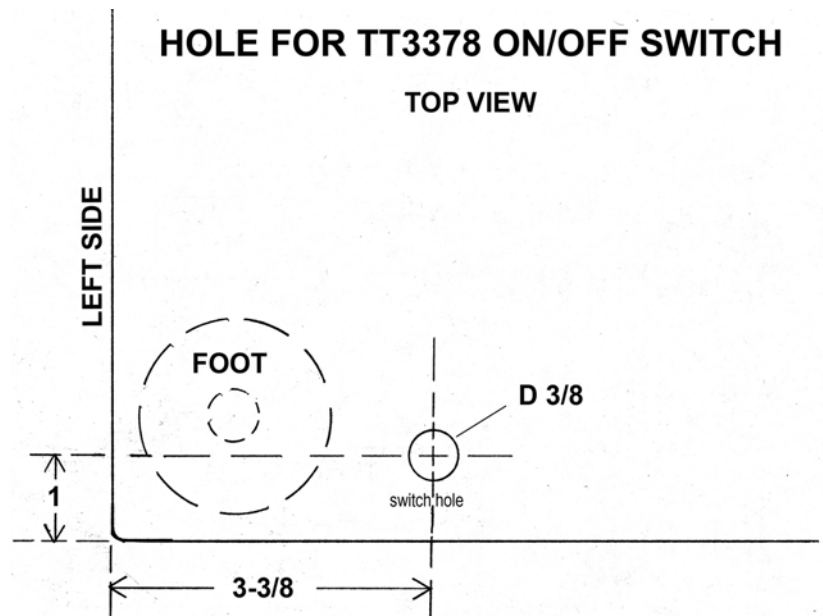


If still on, remove and discard the switch's nut and washer. Set aside for later.

## DRILLING PILOT HOLES IN DECK

### TOPSIDE

First is the switch hole. It is on the top front left side. You will drill a 3/8" hole on the top of the deck.



Use an awl to mark the spot to drill for the switch. It will be on the top front left.

If in doubt, refer to photos of the complete N-3378.

It is advisable that you use the type of 3/8" drill shown and to tape the hole area to avoid splintering. If you have a drill press, use it. If not, try to maintain perpendicularity with the deck surface as much as is possible. Run the drill thru once. Do not widen in unnecessarily.





## BOTTOM SIDE

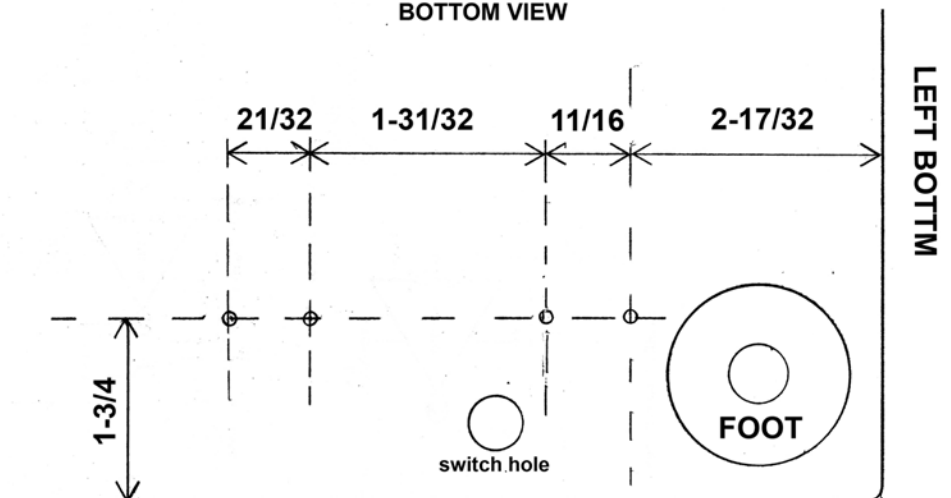
Next drill pilot holes on the bottom side of the deck.

It is advisable to remove the foot to have better drill access to this area. You will need a 6 mm hex wrench to do so.

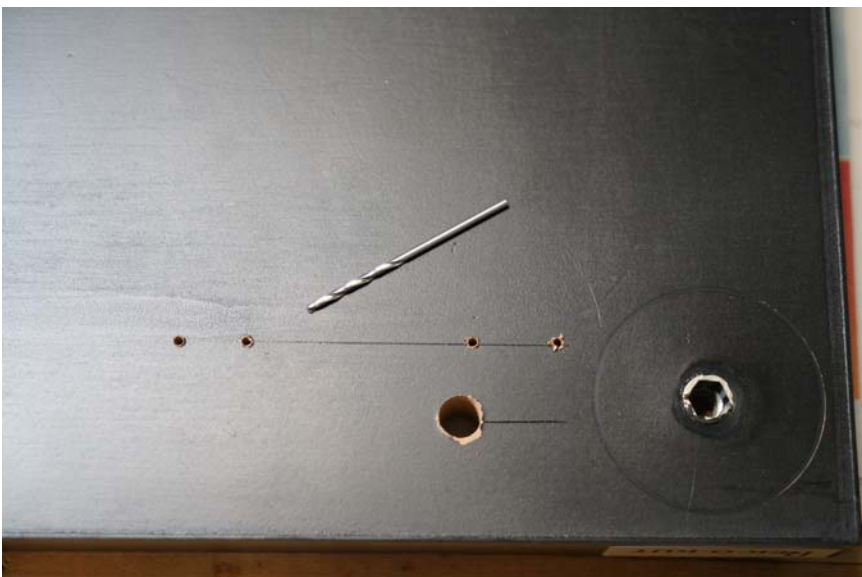
Mark the 4 hole locations with an awl and use a  $5/64$ " bit to drill the holes about  $3/8$  to  $1/2$ " deep. **DO NOT GO ALL THE WAY THRU!**

## PILOT HOLES FOR T3378 TERMINAL STRIP & COVER

BOTTOM VIEW



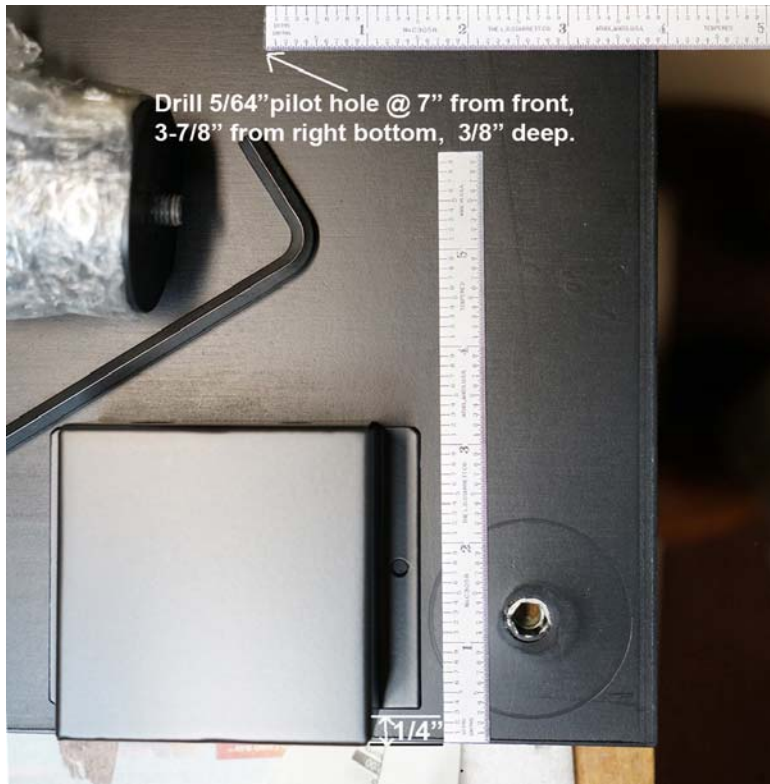
FRONT



**Hint:** Recess the bit into the drill chuck so that only about  $1/2$ " extends out.

**Another hint** is to use the switch cover as a template. Before the foot is removed, place the cover in the area in which it is to be used. That is about  $1/4$  inch from the front lip and just to the left, but not touching the foot. Align it carefully and use the awl to indent the drill marks.

Then remove the cover and align the terminal strip to be in line and in the middle to previously marked holes.

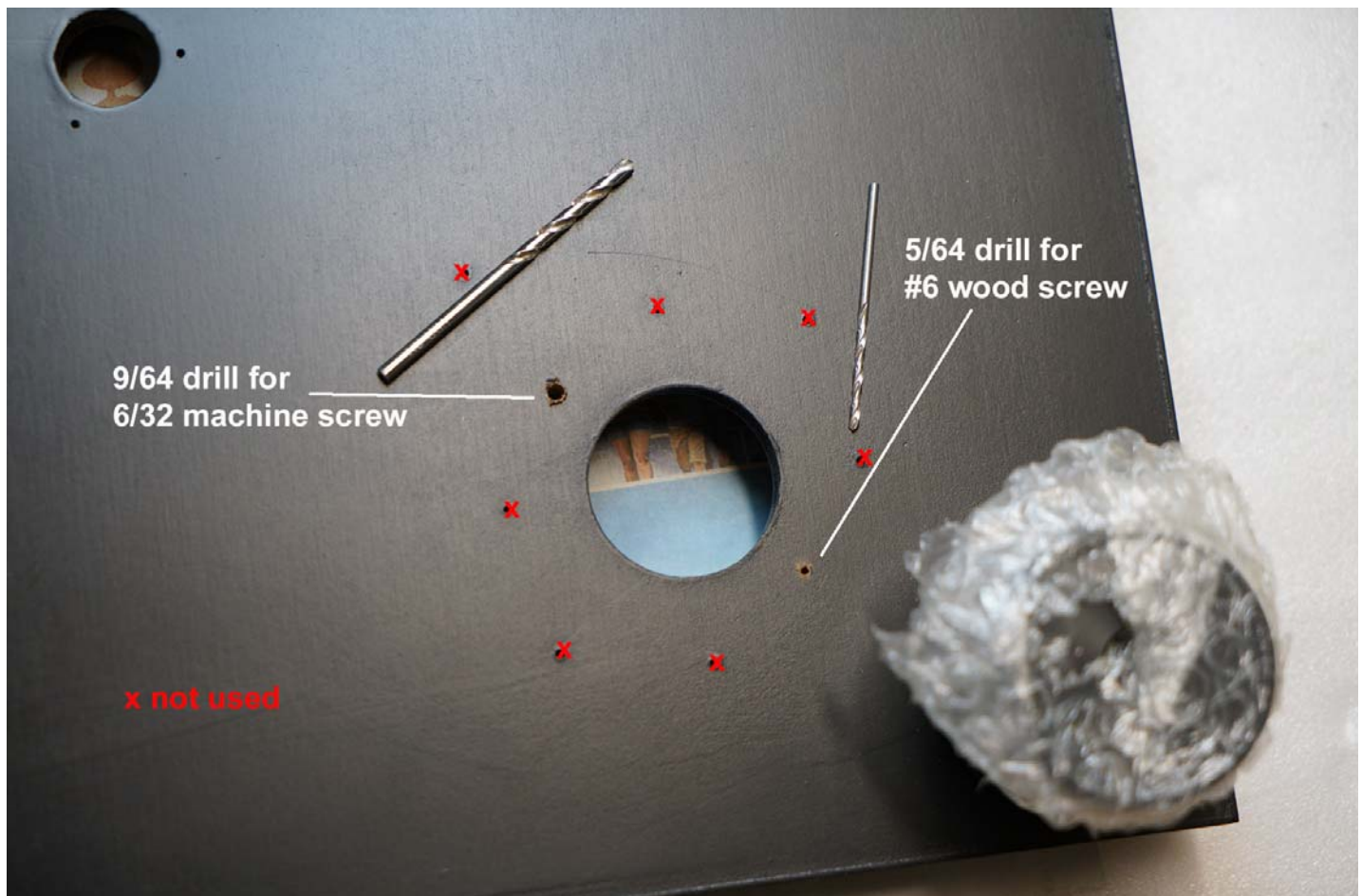


Use the awl to mark these additional holes.



Drill an additional 5/64" pilot hole 3/8" deep at 7" from the front lip, and 3-7/8" from the bottom right. This is for the cable clamp. Refer to final bottom picture.

## MOTOR HOLES





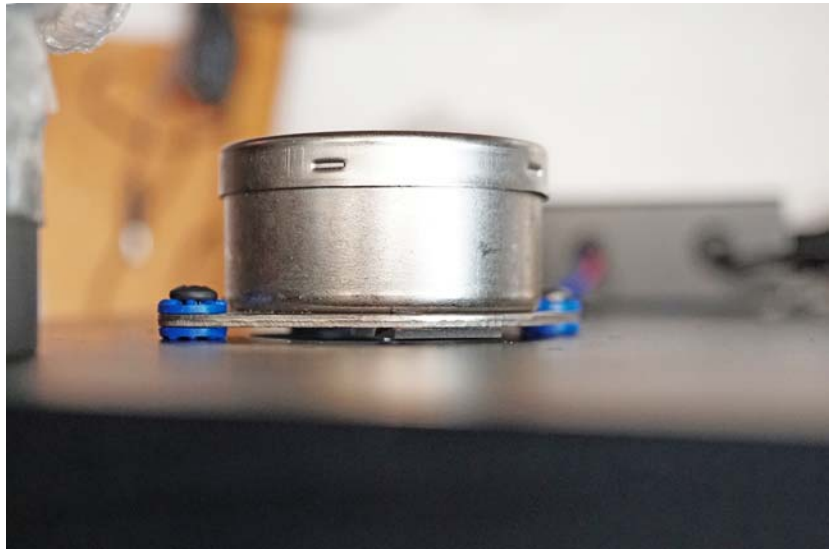
The motor mounts using two different holes. These locations are already prepared with an awl. The machine screw hole goes all the way thru. The wood screw hole requires only a 5/16" pilot hole 3/8 to 1/2 inch deep.

## MOUNTING COMPONENT PARTS

### MOTOR

Orient the motor with leads towards the front. Insert the 6/32 machine screw thru the motor grommet and thru the deck. On top, secure with a 6/32 nut and snug tighten.

Insert #6 X 1/2" wood screw thru the motor grommet and into the deck. Tighten both screws so that the grommets just start to compress, but the black rubber on the sides are slightly not touching the deck. Top of



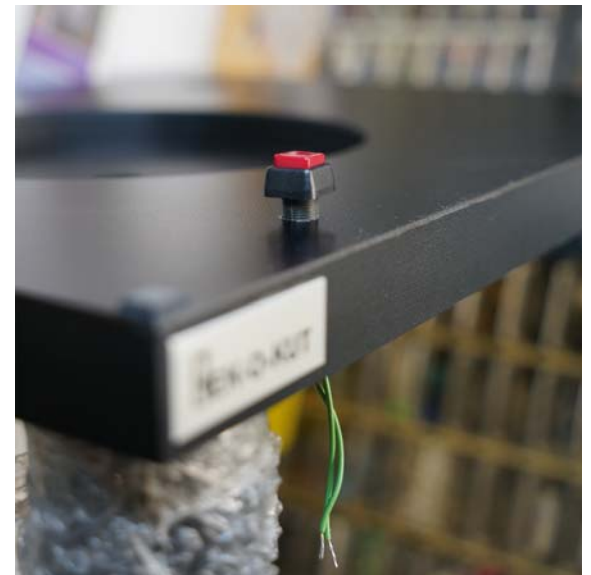
motor flange will be 1/8" above the deck. When satisfied that the motor is attached evenly on both ends, smear a bit of Duco cement or Elmers's Glue-All over the nut top and nearby screw threads.

### MOUNTING THE SWITCH

Thread the switch's leads thru the previously drilled 3/8" hole. Put a drop of water on the threads and screw the switch into the hole. It should be snug but not tight to the point of causing concern. You do not want to break it. If too tight, you

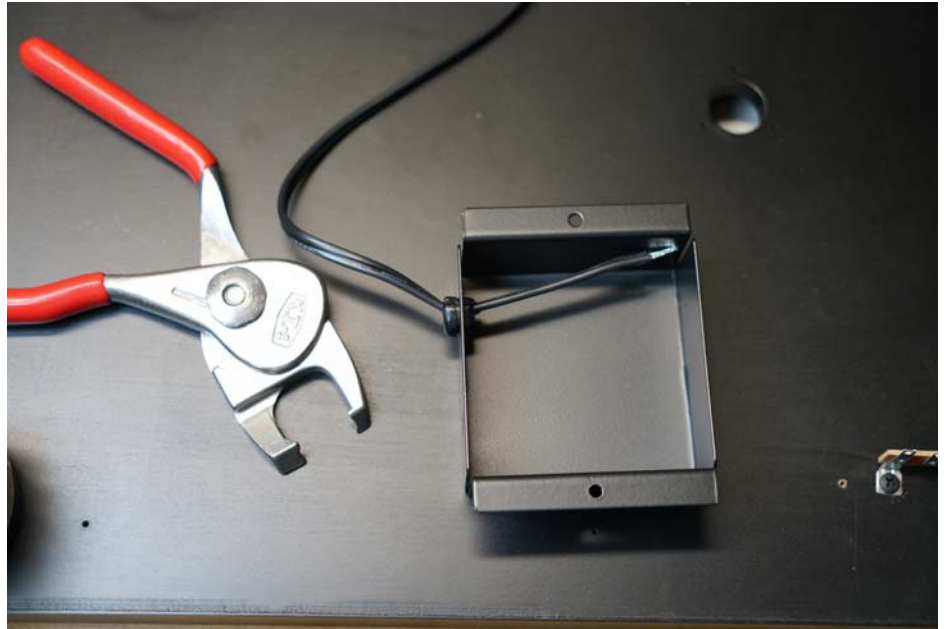
should use your hand to slide the drill bit thru the hole a few times, and repeat screwing it in. If still too tight, use the hand drill and run it powered thru once. Be very careful not to significantly widen the hole. We are dealing with an interference of less than 1/2 mm difference.

When screwed in close to all the way in, be prepared to stop with the switch oriented for best cosmetics. It will not mount absolutely flush with the deck. Note: If you accidentally over widen the hole resulting with a loose switch, remove it and put a small dab of RTV or Elmer's on the threads. Then reinsert it.



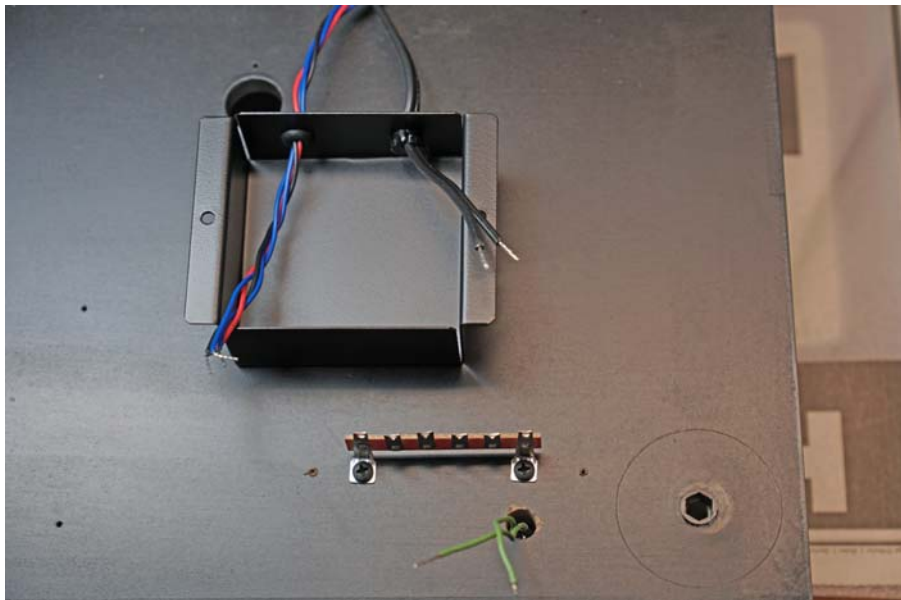
## ARM COLLAR

Position the arm collar on the top of the deck with the cutout facing the front of the deck. Mount with 3 hex head screws, lock washers and nuts. Refer to deck bottom picture at final assembly.



## PREPARE MOTOR LEADS & POWER CORD

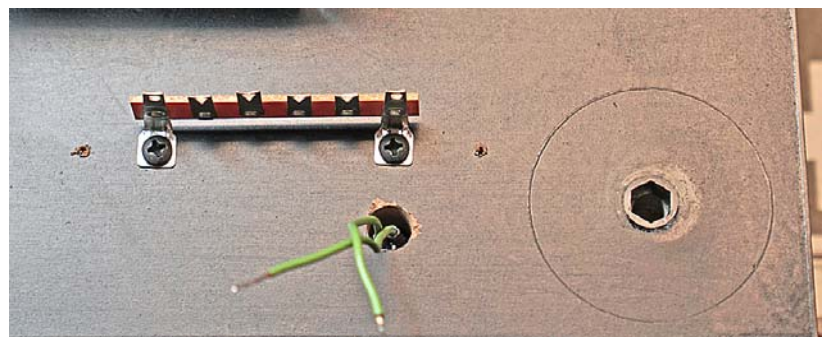
Use pliers or grommet tool to insert the power cord into the larger hole of the switch cover. Squeezing and manipulation is required to get it firmly in place. End of the cord should just touch the far end of the switch cover.



Insert the smaller and softer, simple grommet into the small hole of the switch cover. Twist the 4 motor leads together and dress them thru that grommet.

## TERMINAL STRIP

Use two #6 X 1/2" wood screws to mount the terminal strip.





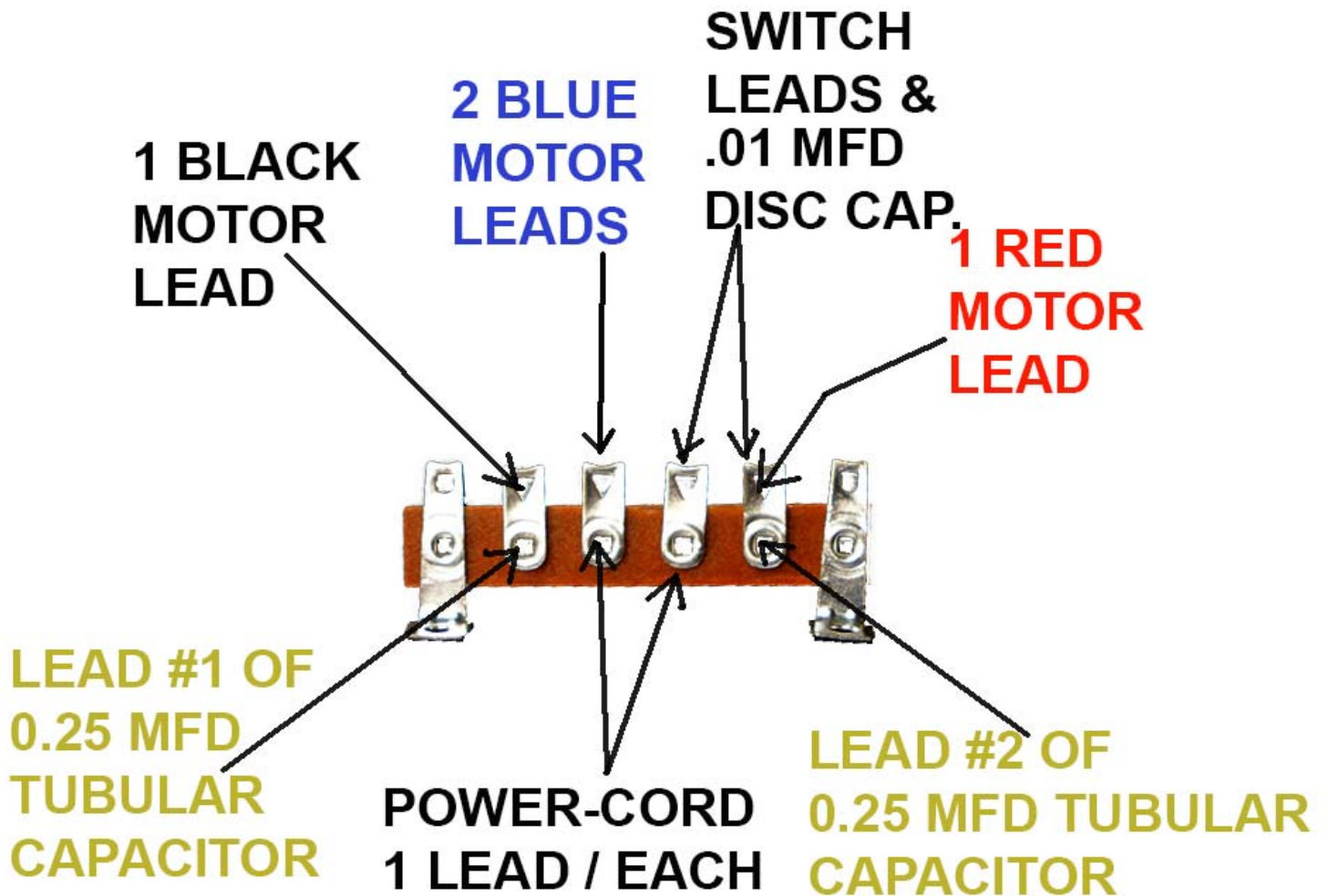
## PLATTER BEARING

Insert bearing cup into center hole of deck and align the mounting flange holes to the pilot holes. Fasten it to the deck using 3 X #4 X 1/2" phillips head screws. Hand tighten to be snug, and seats flat. DO NOT OVER TIGHTEN!

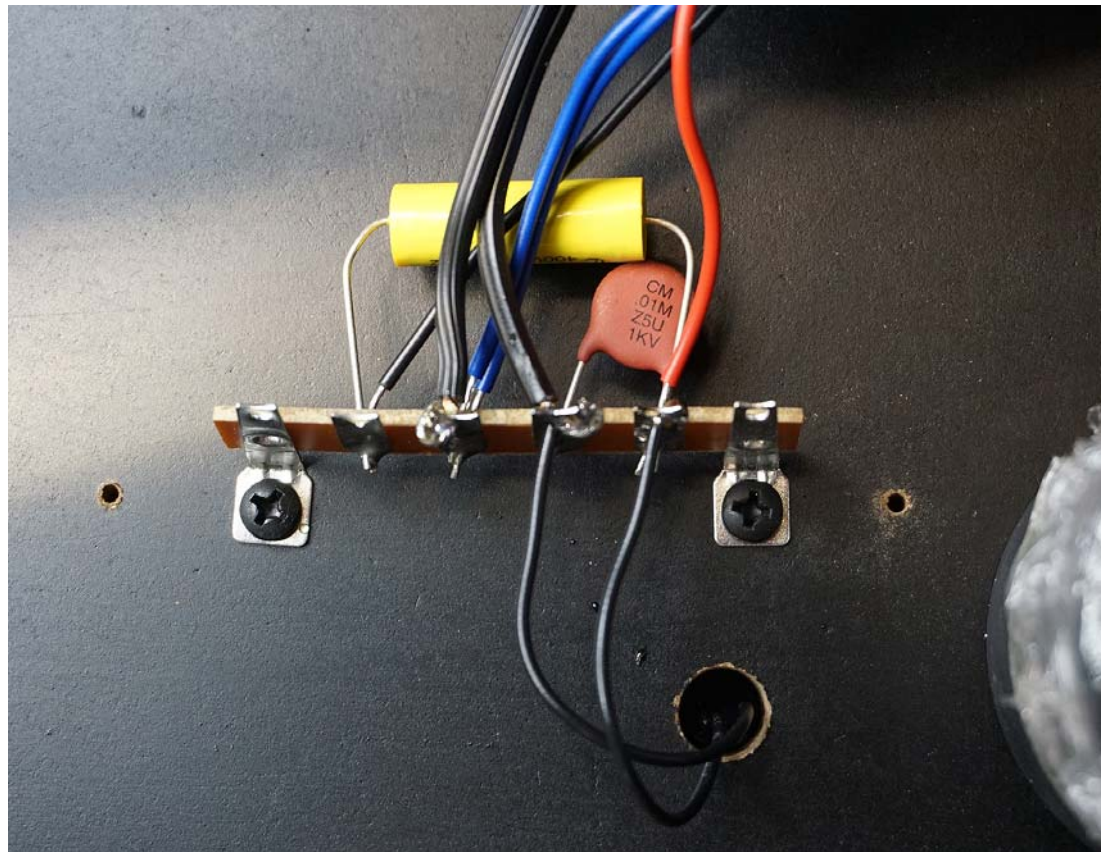


## CONNECTION AND SOLDERING OF COMPONENTS

Solder the components & leads shown in the following pictorial diagram.



Mechanically secure the leads to the terminal lugs. Both top and bottom lug holes are OK to use. Be careful not to short bare leads from one lug to that of an adjoining lug. Use ample solder to wet and secure all leads.



## FINAL ASSEMBLY

### MOTOR COVER

Place the switch cover in place and secure it to the base with two #6 X 1/2" wood screws.

Secure the motor leads in place with a 1/8" black cable clamp using a #6 X 1/2" wood screw.





## MOTOR PULLEY

Push motor pulley onto the motor shaft using the yard stick gauge to control the depth.



## ARM INSTALLATION

Insert the arm into the collar. Position it such that the arm rest platform is  $\frac{3}{4}$ " above the deck and arm bend is 1-1/2" from the right deck edge. Use the supplied "L" shaped hex wrench to lock this position.

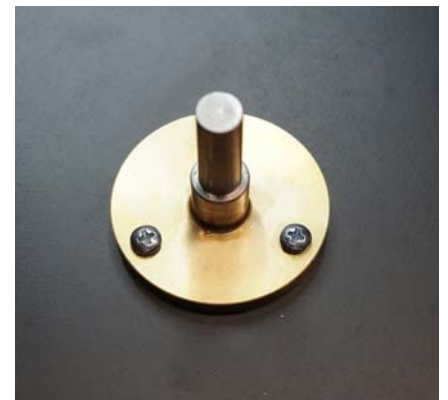


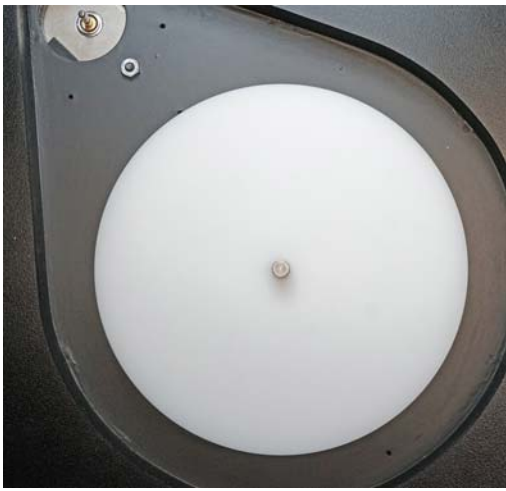
## PLATTER INSTALLATION

Place the 0.375" ball bearing into the bearing cup. Follow with 4 drops of Mobile One, 10W30 motor oil or similar oil into the bearing cup. Smear two or three more drops on the bottom one inch of the spindle.

Insert the spindle straight into the bearing cup while slowly turning it. Do not force it down, but allow the air to bubble out as you slowly push it in.

Place the white sub platter onto the spindle shaft with the hole indent bottom first. When seated, give a spin to help distribute the lubrication.





Loop the black rubber belt over the top pulley diameter and around the sub platter. Slowly rotate the sub platter while using your fingers to keep the belt true and seated on both.

Next, place the black Delrin platter onto the sub platter. Insert the spindle top into the platter.



Remove the aluminum nameplate's backing and stick it onto the front left corner.

Likewise, put the foil address information label onto the rear.



Plug the RCA output cable into the arm at its bottom.

Remove the packing material from the legs. DONE!

From here on, refer to the *Setup and Operation* instructions.

