

Replacing The Mark V Power Cord

Tools needed:

Wire cutters

9/16" metal drill bit

New strain relief & power cord

9/16" socket & wrench

Large - flat screw driver

30 weight non-detergent oil

Medium- Phillips screw driver

1. Turn off and unplug the Mark V
2. Attach the sanding disk to the main spindle and rotate it away from you as you turn the control handle to fast. DO NOT force. This will take the tension off of the motor drive belt so that you can remove it from the motor pulley.
3. Remove the belt cover and secure out of your way to your left with tape or string. Slide the headstock and carriage to the right (towards the base mount) as far as they will go. Secure the headstock and carriage locks.
4. Remove the drive belt from the motor pulley by gently sliding off one side of the belt and rotating the motor shaft so that belt will ride off entirely.
5. Remove the nameplate assembly to expose the access hole located on opposite of the control handle. NOTE: depending on the age of your unit this can be done by popping off with a flat head screw driver or by removing the screw located at the bottom of the nameplate cover. Some older units did not have access holes and you may have to lower the motor pan assembly down on the bench tubes to have enough room to work on unit.
6. Fully extend the quill and lock into place. This will give you enough room to access the backside of power switch.
7. Remove and disconnect the wires from the on/off switch. Remember the wire color location for reinstallation later.

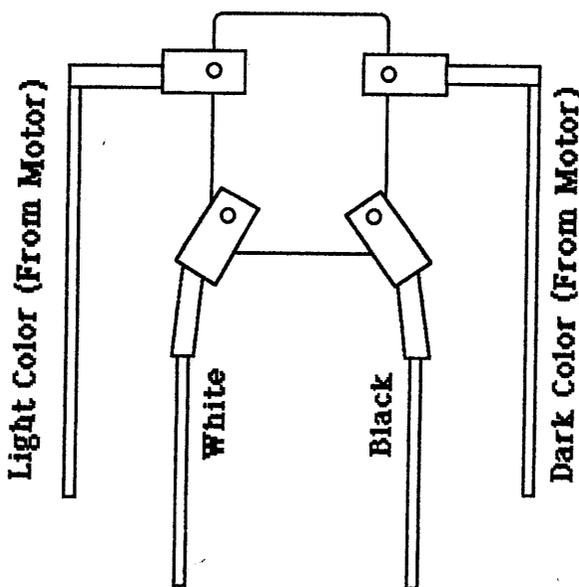
Please locate procedure below which switch best describes the type of switch in your unit...

- Toggle type switch (A), locate the slot in the special nut surrounding the outside of your toggle switch. Insert a large screwdriver into this slot and unscrew. Push the switch back in the headstock. DO NOT lose the washer located under special nut. Remove wires from the terminal connectors on back.

- Toggle type switch (B), with a 9/16" socket, unscrew the hex nut and remove. Push the switch back in the headstock. DO NOT lose the washer located between inside of headstock and switch. Remove wires from the terminal connectors on back of switch.

- Red key type switch, compress all 4 corners of the switch from the inside and push out the front of the unit. Remove wires from the terminal connectors. DO NOT pull wires out of backside of switch.

Back of Switch



8. Put your Mark V to the vertical drill press position and secure.
9. Place the main work table in the underside of you carriage making sure that the work surface is facing up. Protect the work surface with several sections of newspaper or heavy cardboard. The work surface of your table should now be on the side of the unit closest to the motor pan assembly.
10. Remove the motor pan screws and carefully lower the motor pan assembly down on your protected work surface. Have someone help you hold the motor pan assembly so that it will not fall and cause damage or possible injury.

11. Remove the ground lead wire from the rear of the motor. (Usually the Green Wire) Measure and record the length of the cord inside the motor pan.
12. Before you attempt to install your new cord, you must determine whether your old cord has a molded on strain relief or a separate strain relief. To do this, inspect the strain relief to see if it is completely round or has two flat sides. If it is round, you should grip the strain relief with pliers and pull out of motor pan. If it has flat sides, squeeze both flat sides with pliers and pull out.
13. If your old strain relief was round you will need to modify the cord hole in the motor pan by enlarging the hole to a 9/16" diameter and deburr.
14. Before mounting the strain relief into the motor pan, thread the length of cord measured earlier into the motor pan. With the cord hanging down through the motor pan, place the new strain relief around the cord and squeeze into the motor pan hole. You may have to use pliers to accomplish this totally.
15. Connect the ground wire to the motor at the grounding screw. Reattach the motor pan to casting and connect the drive belt to pulley. Be sure to put the lead wires, from the motor, between the headstock lock rod and the casting to avoid interference. Reconnect the switch.
16. Replace the nameplate assembly and belt cover.