

#90037 5" Variable Speed Bench Disk Sander Manual

Introduction

Prior to using the tool, you need to be familiarized with its functions and safety information. Please take a few minutes and review this manual in order to obtain the most from this fine tool. This manual, however, is not meant to cover every possible situation. It must be understood that common sense, tool knowledge and caution are factors that cannot be built into the product.

GENERAL SAFETY INSTRUCTIONS

1. Always wear safety glasses or goggles. Everyday eyeglasses are not safety glasses.
2. Do not use power tools in damp or wet locations or expose them to rain.
3. Set up your sander in a comfortable, well lighted location. Keep the floor and work area around the sander clean and neat.
4. Keep fingers and hands at a safe distance from a spinning sander under power.
5. Don't overreach. Never reach around or over a rotating disk. Keep proper footing and balance at all times. Non-slip footwear is recommended.
6. Never wear loose clothing, work gloves, neckties, bracelets or other jewelry when operating power tools with moving parts. Keep long hair tied back.
7. Keep power tools out of the reach of children.
8. Do not force tool. Feed stock to the sanding disk slowly.
9. Do not operate tool after taking drugs, alcohol or medications or when you are tired or fatigued.
10. Always unplug tools before changing disks, servicing, or doing any other tool maintenance or set-up. Never put hands inside the housing with sander plugged in.
11. Keep your sander well maintained. If it binds, makes unusual noises or has broken parts, correct the problem immediately.
12. Check the switch to see that it is off before plugging in the cord. "0" mark on switch indicates "off".

13. Feed work against the left side of the rotating disk. Note the molded-in directional arrow in the housing above the disk. This is the working side of the sander. The right-side spins upward away from the table and pieces being sanded there could be thrown upward into the users face as well as sanding dusts thrown upward.

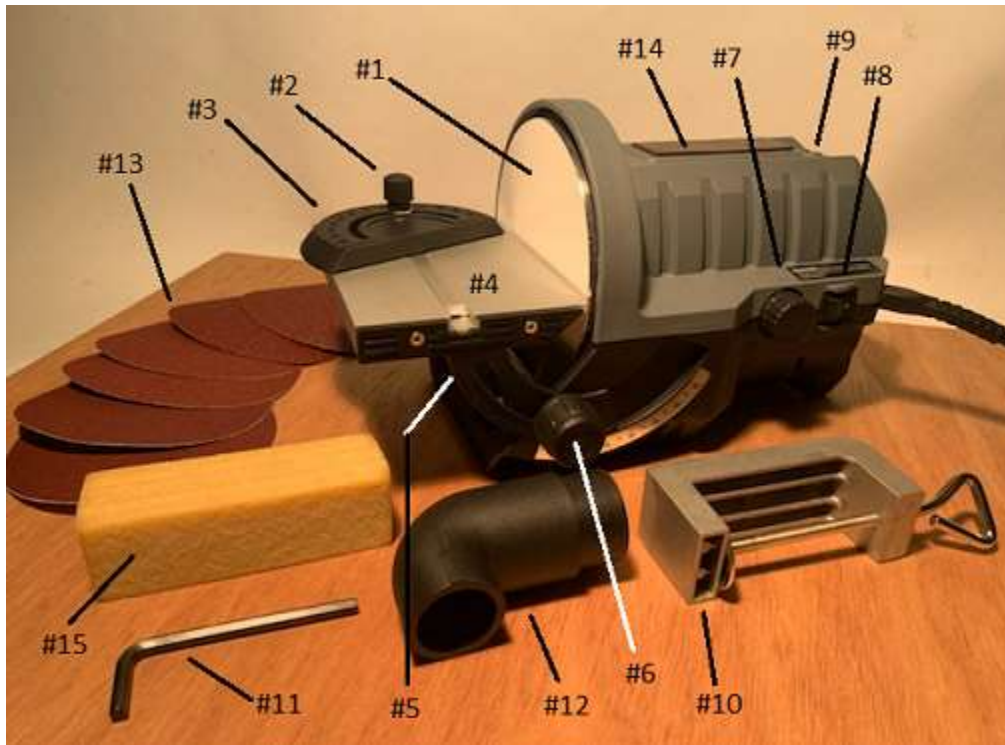
14. A sander or other dust producing tool should not be used close to a furnace, water heater or other flame producing appliance. The dust in the air can be ignited, causing an explosion and/or fire.

15. User should wear a dust mask when using this sander and a vacuum port is provided for the tool.

⚠ **WARNING:** This product can expose you to chemicals, including Wood Dust which is known to the State of California to cause cancer. For more information, go to: www.p65warnings.ca.gov

Product Warranty

This Power Sander is warranted against defective material or workmanship 90 days after purchase provided that the customer returns the tool prepaid to Micro-Mark, 340 Snyder Ave., Berkeley Heights, NJ 07922 with proof of purchase from Micro Mark. This warranty applies only to the original purchaser. Micro-Mark will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse, accident, unauthorized repairs or alterations or other causes unrelated to problems with material or workmanship. This warranty applies to home use only and will be void if it is used for production or business purposes. Repairs made necessary by normal wear or abuse, or repair outside the warranty period, if they can be made, will be charged at regular service prices. Under no circumstances will Micro-Mark be liable for incidental or consequential damages resulting from defective products. This warranty is Micro-Mark's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, expressed or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Micro-Mark.



Tool and Parts Identification

1. Sanding Plate.
2. Miter Locking Knob
3. Miter Gauge
4. Sanding Table
5. Sanding Table Mounting Screw.
6. Table Tilting Knobs (one on each side).
7. Variable Speed Control Knob.
8. Off (O) / On (-) Switch.
9. Tool Heat Venting Slots.
10. Table / Bench Clamp
11. Hex Wrench (to dismount or mount the table housing for grit change).
12. Vacuum Attachment and Adaptor.
13. Sand Paper Disks (2 each 80, 150 and 240 Grits).
14. Magnetic Strip for On-Board Tool Storage
15. Sandpaper Cleaning Bar.

Sander Assembly and Operation Instructions

Your sander arrives to you with little assembly required.

Vacuum Adaptor

Assuming that you have located all of the parts from the Identification section prior to this section, place the elbow of the vacuum adaptor into the hole on the left-side of the machine until it is snug in the hole (**NOTE: There is a raised protrusion on the elbow that must align with the slot inside the port. Once you locate it, the elbow is pushed into the housing to secure it**). Determine if your vacuum will require the optional adaptor to join it to the elbow. Use as needed.

Installing Sandpaper

Note: Never install or remove sandpaper with the unit plugged in.

Sandpaper is not installed. Several grits are provided. To mount your selected grit, you will need to loosen the tilting table by rotating both of the control knobs in opposite directions at the same time. One way will tighten the table and one will loosen the table. With it loose, raise the table to its highest position and turn the knobs in the opposite directions to tighten it in place. Locate the single hex cap screw located under the table. Using the hex wrench provided, loosen and remove the screw with its washer and set aside.

The entire front black housing with the table and tilting mechanism can now be pulled straight off from the rear housing completely and set aside. You now have full access to the sanding plate.

The disk has been laminated and this lamination should not be removed. It provides easy removal of used disks. You will apply your disk onto the plate over the laminate. Remove the backing from the selected grit to reveal it's adhesive.

Stand the tool on your bench with the disk pointed towards the ceiling. Do your best to center the disk over the plate and press the disk downward slightly (in the center only) in order to stick it onto the white laminate. Then, rotate the disk

from the center to see how well you have the grit centered. If it rotates with only a little out-of-roundness and the excess paper that is over-hanging the edge of the plate is not impacting the housing, then you should be good to continue pressing the remaining disk area down. If not, and there is too much over-hang to one side then removing the disk is easy since you have attached it in the center section only and lightly. Peel off the disk and try again. Continue until centered to your liking. Any bothersome excess over-hang can be trimmed off with a sharp utility blade.

Reinstall you front housing by aligning and mating the opposing housings and secure it in place with the cap screw and washer.

Clamping the Sander to a Table

You should always use the sander with it held in place by the supplied C-clamp to a work table or some other method. The clamp has capacity to clamp to a table from 1" to 2-3/4". The C-clamp is versatile. being able to clamp the unit at the end of a table edge either with the disk horizontal (normal operation) or vertically when that positioning is easier for you needs. The 2 locations for the top part of the C-clamp to be inserted into is: directly under the disk OR at the back bottom end of the housing. In either case, you will see a rectangular shaped opening molded into the tool housing to insert the clamp. Optionally, Micro Mark offers an anti-vibration pad that acts as a non-skid pad should you not wish not to use the clamp so as not to mar the underside of your work table or have a table that is too thick in which to mount the sander. See their website www.micromark.com and perform a search for part number 80243.

Miter Gauge Use and Tilting Table

A miter gauge is supplied for precise straight sanding, as well as, angled sanding of small parts. The table has an upside-down T-slot that will mate with the bar design of the gauge. You can insert the bar from the right or the left of the table as needed. It can be set to any angle from 0 to 90°. There is a small line formed into the bar for setting the different degrees. Once aligned, tighten the knob to set the gauge.

The table can be set to different degrees in relation to the sanding disk as well. Located on the right side of the table you will see that the table can be tilted to minus 50° and up to a positive angle of 10° in relationship to the disk. You must use both the left and right-side tilting control knobs when adjusting the table. Also, molded into the right arm support is a pointer for aligning the table to a corresponding degree required on the scale.

Tip: Black on black is tough to see in low light so we recommend placing a white line with a marker or a White-Out brush tip application of paint on top of the pointer for better vision of it. While the pointer and scale are fairly accurate, if you desire super precise sanding for your project, we recommend the use of alternative measuring devices such as a machinist square to check the angle desired before use. Again, you can see www.micromark.com for different tools.

Powering Up and Running the Disk Sander

On the right side of your unit are the controls for the sander. The switch that controls on and off is furthest to the rear. Off is symbolized by the “O” side and on is the dash line. Whichever side is pressed inward is in control. So, before plugging your tool into a 120V-60Hz standard USA outlet please make sure that the “O” is pressed inward and the unit will not start when plugged in.

The variable speed control knob is just forward of the on / off switch. Speed is adjustable from 1150 to 3600 rpm. Turn clock-wise to reduce speed and counter-clockwise to increase speed. Generally, wood is sanded at higher speeds and metal and especially plastics are sanded at slower speed in order to prevent melting of the plastics. As you work with this sander, your experience will determine which setting is best for your application.

Important Note: Molded into the plastic housing just above the disk is an arrow indication of the directional rotation of the sander. As with any disk sander of any size, the working size of the machine is half the size of the disk. In this case, the 2-1/2” on the left side of the imaginary center-line of the disk. As you work this side of the sander with your material, the rotation of the disk pushes your material down against the table keeping the material in place. Working on the right side of the disk while it is spinning counterclockwise and upwards in relation to the table will cause your material to pull away from table contact and possibly out of your hands.

Also, the dust created will be blown upward into the users face which you do not want to have happen.

Other Important Information

Never try to sand a part that is too small where your fingers cannot grasp or hold it in place securely on the table. Your fingers could come into contact with the spinning disk and cause injury. The part could move uncontrollably too far into the disk and become ruined or the part could fly away.

Always make sure that when you have applied a new disk or have not used the tool for some time that you ensure that the disk is attached fully before turning the unit on so that it does not fly-off of the plate. A thrown disk can cause severe injury or damage to surroundings.

Don't sand fiberglass, plaster, wallboard or spackling with this tool as the dust created by these items are very abrasive and can cause damage easily to electrical equipment and bearings.

From time to time, it is good maintenance to blow the unit out with an air jet from a compressor. Use safety glasses and appropriate facial mask as required.

The abrasive cleaning disk supplied should be used with the tool set to the fastest speed.

No lubrication is required as the bearing are long-life lubricated

Prior to beginning use of the sander, it is good practice to inspect the tool and cord for any damage which could cause electrical shock or injury.

It is good practice for electrical equipment that they are not used with extension cords of lesser grade. A 6-foot cord is acceptable if it is at least 18 gauge but not more than 6 feet.

Though the electrical draw of this tool is only 1.1 Amp, the tool should be used on an electrical supply outlet of at least 15 Amps and a circuit that is protected by a time-delayed fuse or circuit breaker.

