

MGPX BENCH SANDER OPERATOR MANUAL



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BENCH SANDER

INTRODUCTION

The Bench Sander is a compact, durable machine designed for fast, complete finishing work. It will deliver efficient, dependable service when used correctly and with care. As with any piece of specialized equipment, for best performance the manufacturer's instructions must be followed.

BEFORE USING THE BENCH SANDER, BE AWARE OF THE FOLLOWING SAFETY RULES:



WARNING: For your own safety, read operating instructions manual before operating tool.

BE PREPARED FOR JOB

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
- Wear protective hair covering to contain long hair.
- Wear safety glasses. Everyday glasses have only impact resistant lenses. They are NOT safety glasses.
- Wear face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

- Keep work area clean. Cluttered work areas and work benches invite accidents.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.

- Work area should be properly lighted.
- Proper electrical plug should be plugged directly into properly grounded, three-prong receptacle.
- Extension cords should have a grounding prong and the three wires of the extension cord should be of the correct gauge.
- Keep visitors at a safe distance from work area.
- Keep children out of the workplace. Make workshop childproof.

TOOL SHOULD BE MAINTAINED

- Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.
- Keep tool clean for safest operation.
- Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before turning machine on.
- Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
- Check for damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other condition that may affect a tool's operation.
- A guard or other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs. (Use the parts list to order replacement parts.)

KNOW HOW TO USE TOOL

- Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
- Disconnect tool from power when changing accessories such as grinding wheels, buffing wheels and the like.
- Do not force tool. It will work most efficiently at the rate for which it was designed.
- Keep hands away from moving parts and grinding surfaces.
- Never leave a tool running unattended. Turn the power off and do not leave

tool until it comes to a complete stop.

- Do not overreach. Keep proper footing and balance.
- Never stand on tool. Serious injury could occur if tool is tipped over.
- Know your tool. Learn the tool's operation, application and specific limitations.
- Use recommended accessories. Understand and obey all safety instructions supplied with accessories. The use of improper accessories may cause risk of injury to persons.
- Always use guard.
- Dust generated is FLAMMABLE – DO NOT SMOKE when using Sander.

DESCRIPTION

Bench Grinders are equipped with a totally enclosed ball bearing motor. Armature assembly is dynamically balanced for smooth operation. Motor housing is compact so long pieces of work can press against wheels without touching the motor frame. Removable wheel guards allow for easy changing of wheels.

UNPACKING

Check for shipping damage. If damage has occurred, a claim must be filed with the carrier immediately. Check for completeness. Immediately report missing parts to dealer.

SPECIFICATIONS

Horsepower.....	0.75
Voltage	120/240
Amperes	7.0
Hertz	50/60
Phase	Single
RPM.....	3450
Rotation (viewed from left side)	Clockwise

OPERATING THE BENCH SANDER



WARNING: Eye protection should always be worn by the operator and others in the work area when the Sander is in use. Eye protection is required for protection from flying debris and dust, which could cause eye injury.

INSTALLATION

The Bench Sander should be located on a flat, firm surface, in an area free of obstructions that could interfere with the safe operation of the equipment. The Bench Sander should be positioned and leveled on a solid bench or stand to obtain quiet operation with a minimum of vibration. Please note that the Bench Sander must be screwed onto the surface, or else harm can occur.

DUST COLLECTOR HOSE (ON MODEL WITH DUST COLLECTING SYSTEM):

A dust collector hose has been provided with grinder. Mount the hose by sliding both ends over the exhaust port and the exhaust on the side of the blower housing. Tighten the hose collars.

DANGER: Be sure to empty dust bag frequently.

GROUNDING INSTRUCTIONS



WARNING: Improper connection of equipment grounding conductor can result in the risk of electrical shock. Equipment should be grounded while in use to protect operator from electrical shock.

- Check with a qualified electrician if grounding instructions are not understood or if in doubt as to whether the tool is properly grounded.
- This grinder is equipped with an approved 3-conductor cord rated at 300V and a 3-prong, grounding type plug for your protection against shock hazards. Grounding plug should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle (See Figure 1).

- Do not remove or alter grounding prong in any manner. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical shock.



WARNING: Do not permit fingers to touch the terminals of plug when installing or removing from outlet.

- Plug must be plugged into matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify plug provided. If it will not fit in outlet, have proper outlet installed by a qualified electrician.
- Inspect tool cords periodically, and, if damaged, have repaired by an authorized service facility.
- Green (or green and yellow) conductor in cord is the grounding wire. If repair or replacement of the electric cord or plug is necessary, do not connect the green (or green and yellow) wire to a live terminal.
- Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with National Electric Code and local codes and ordinances.



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WARNING: This work should be performed by a qualified electrician.

- A temporary 3-prong to 2-prong grounding adapter (See Figure 2) is available for connecting plugs to a two pole outlet if it is properly grounded.
- Do not use a 3-prong to 2-prong grounding adapter unless permitted by local and national codes and ordinances.

(A 3-prong to 2-prong grounding adapter is not permitted in Canada.) Where permitted, the rigid green tab or terminal on the side of the adapter must be securely connected to a permanent electrical ground such as a properly grounded water pipe, a properly grounded outlet box or a properly grounded wire system.

- Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure proper ground, grounding means must be tested by a qualified electrician.

EXTENSION CORDS

- The use of any extension cord will cause some drop in voltage and loss of power.
- Wires of the extension cord must be of sufficient size to carry the current and maintain adequate voltage.
- Running the unit on voltages which are not within $\pm 10\%$ of the specified voltage may cause overheating and motor burn-out.
- Use the table to determine the minimum wire size (A.W.G.) extension cord.
- Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
- If the extension cord is worn, cut or damaged in any way, replace it immediately.

EXTENSION CORDS LENGTH

Wire Size: A.W.G.

Up to 25 ft. (8 m)

NOTE: Using extension cords over 25 ft. (8 m) long is not recommended.

ELECTRICAL CONNECTIONS



WARNING: All electrical connections must be performed by a qualified electrician. Make sure tool is off and disconnected from power source while motor is mounted, connected, reconnected or anytime wiring is inspected.



WARNING: If the electrical cord, plug or wiring should become frayed or damaged, replace it at once. Do not attempt to operate the machine with faulty wiring as it could result in severe injury or death.

START-UP



WARNING: Eye protection should always be worn by the operator and others in the work area when setting up the machine. Eye protection is required for protection from flying debris and dust, which could cause eye injury.

Before shipment, your Sander was checked at the factory for proper adjustment and operation. However, due to the possibility of jarring or damage during handling and shipping, it is necessary to check that the machine is in proper working order before use.



WARNING: Before initial start up, turn the motor shaft by hand to ensure that all parts are free.

BEFORE CONNECTION TO AN ELECTRICAL POWER SUPPLY

1. Check that the switch is off.
2. Check that the bayonet with the sanding wheel is locked in place on the motor shaft.



WARNING: As with any piece of electrical equipment, there is an ever present hazard of electrical shock when operating or touching the Sander. Ensure the machine is properly grounded at all times.

Do not force the equipment. It will do the job better and safer at the rate for which it was designed.

SANDING SLEEVE REPLACEMENT



WARNING: Eye protection should always be worn by the operator and others in the work area when changing sanding sleeve. Eye protection is required for protection from flying debris and dust, which could cause eye injury.

(Sanding sleeves can be obtained in various grit to suit your needs and are easily changed.)

TO REPLACE THE SLEEVE

1. Take off the old sleeve from the sanding wheel

Tip: if the sandpaper is stuck on the wheel, you can cut it along the crease.

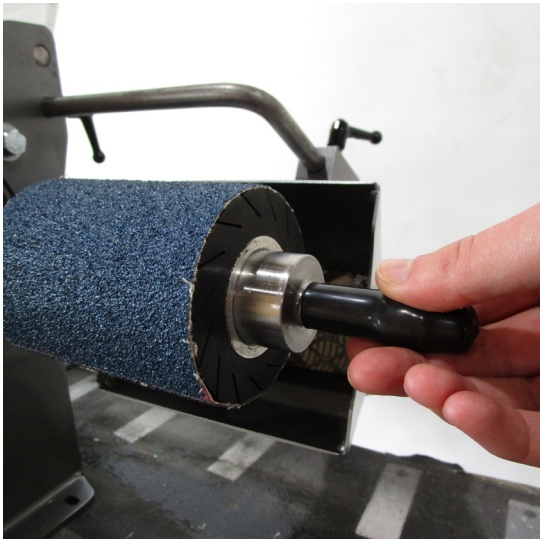


2. Remove the sanding sleeve and replace with the new one.

Tip: you can put some WD-40 on the inside of the sandpaper to help it slide on easily.

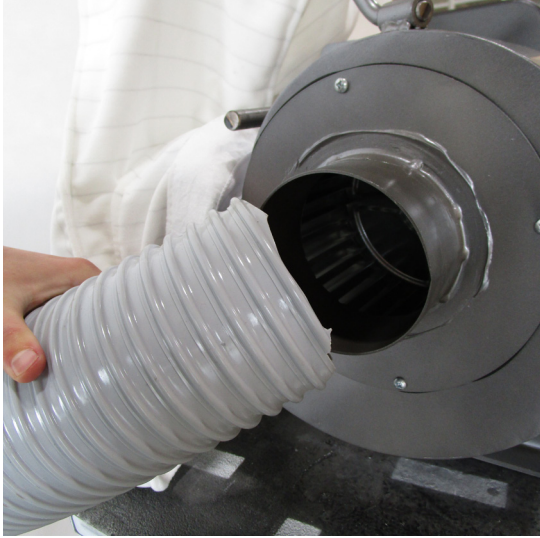


3. Unscrew the rubber cap to add an attachment

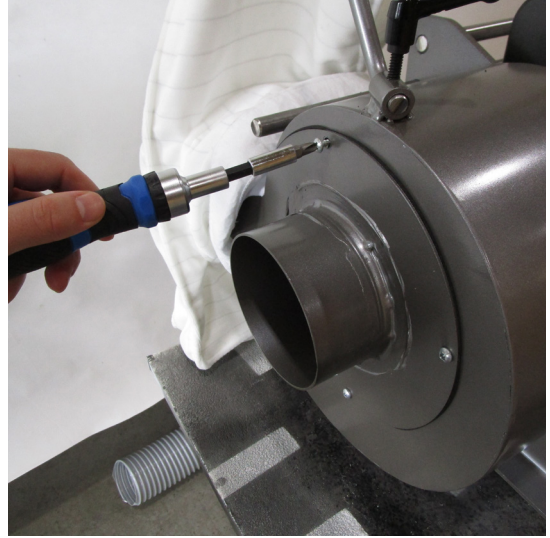


BLOWER FAN CLEANING

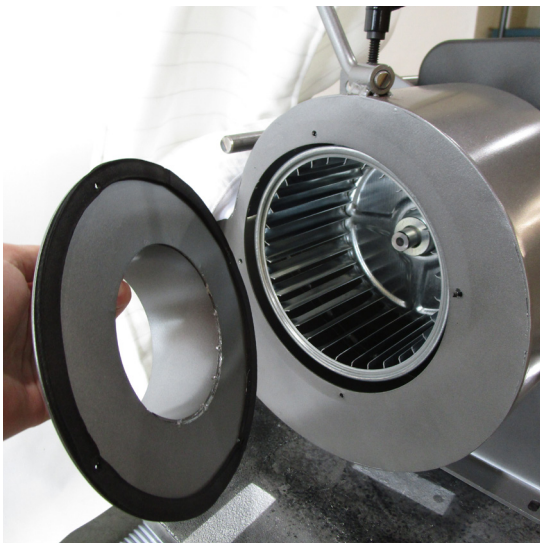
1. Unplug the suction tube



2. Unscrew the blower fan cover panel



3. Look inside and remove the dust



MAINTENANCE

A properly maintained machine will give you years of satisfactory service, whereas an abused machine will not. We strongly recommend that you observe the following procedures for your own benefit and safety.



WARNING: Eye protection should always be worn by the operator and others in the work area when servicing the machine. Eye protection is required for protection from flying debris and dust, which could cause eye injury.

DAILY AND WEEKLY MAINTENANCE

1. Clean your Bench Sander daily.
2. Shake dust bag and empty it daily.

The cleaner you keep the dust bag, the less likely you are to burn a hole in them. Failure to shake the dust bag and empty it daily will only increase this likelihood, but also cause a significant loss of dust extraction.



WARNING: Dust from Sander is combustible. Do not smoke while cleaning the machine and dust collector.

Damaged dust bag will allow the escape of combustible materials causing a fire hazard around the machine.

Check damaged parts. Before further use of a tool, guard or other part that is damaged, check carefully to determine that it will operate properly and perform its intended function. Check for mounting or any other condition that may affect its operation. A tool, guard or other part that is harmfully damaged should be properly repaired or replaced.

If the electrical cord, plug or wiring should become frayed or damaged, replace it at once.

After making adjustments, remove all wrenches and other tools before operating the Sander.

Use extra caution when starting the Sander for the first time after installing a new tool or part.

MONTHLY MAINTENANCE

1. Take off the hose from the blower housing and look at the fan to see if there are small particles stuck to the fan.
N.B. Those small particles can create vibrations of the bench sander.
2. Clean your dust bag with a shop vac or a vacuum cleaner.
N.B. You should change your dust bag at least every 2 years to increase the efficiency of the dust collector.

LUBRICATION

Your MGPX Sander is equipped with sealed bearings throughout, which should be replaced if they ever wear out.

Other parts should not require any lubrication, only cleaning the parts is required.

Lubrication will only attract dust and would be more harmful than helpful.

MOTOR REPLACEMENT



WARNING: Motor replacement requires working with electrical wiring and can be hazardous. If you are not familiar with electrical procedures, please call a qualified electrician.

To remove the motor, these procedures should be followed:

1. Disconnect the electrical power supply.
2. Take off the back panel to have access to the motor.
3. From the bottom of the machine, remove the four (4) bolts holding the motor.
4. Disconnect the wiring from the switch and from the electric cord.
5. Mark the electrical wires to the motor such that you will be **ABSOLUTELY CERTAIN** where to reconnect them on the new motor.
6. Reassemble with new motor in reverse order to the above procedures.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Grinder won't start	<p>Tripped circuit breaker</p> <p>Low line voltage</p> <p>Material wedged between wheel and guard</p> <p>Defective switch</p> <p>Defective, blown capacitor</p> <p>Thermal protection switch is activated</p>	<p>If breaker tripped, reset it.</p> <p>Check power supply for voltage and correct as needed</p> <p>Turn grinder off and remove material</p> <p>Replace switch</p> <p>Replace capacitor</p> <p>Wait 30min and reset the switch located at the back of the machine</p>
Excessive vibration	<p>Improper mounting of grinder or accessories</p> <p>Grinding wheel out of balance</p> <p>Dust or particles clogged on the fan</p>	<p>Remount</p> <p>Replace wheels</p> <p>Clean the fan</p>
Motor overheating	<p>Excess pressure required to grind material</p> <p>Motor not turning freely (without power)</p>	<p>Replace sandpaper with one of proper grit.</p> <p>Clean around wheels and shaft and/or replace bearings</p>
Circuit breakers are being tripped	<p>Overloading due to binding</p> <p>Defective plug</p> <p>Defective cord</p> <p>Defective switch</p> <p>Motor wired for different line voltage</p>	<p>Clean around wheels and shaft and/or replace bearings</p> <p>Replace plug</p> <p>Replace cord</p> <p>Replace switch</p> <p>Rewire motor as per wiring diagram</p>

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Lost of suction	Dust bag maybe full Blower fan may be clogged Suction hose jammed	Empty it Clean it

ACCESSORIES

PART #	DESCRIPTION
317863MGPXB	4"x3" Rubber Sanding Drum 
RCS - RCS24, 40, 60, 80 RCM - RCM24, 40, 60, 80 RCL - RCL24, 40, 60, 80	Tapered Rubber Sanding Cone and Sandpapers 
A162 + A163	Scotch Brite Polishing Cone Adapter and Polishing Cone 

PART #	DESCRIPTION
3WBB + CW434MGPXB	4" Wire Brush 
CW434MGPX + CW434	4" Cotton Wheel with adaptor 
RCS - RCS24, 40, 60, 80 RCM - RCM24, 40, 60, 80 RCL - RCL24, 40, 60, 80	Tapered Rubber Sanding Cone and Sandpapers 

PART #	DESCRIPTION
A162 + A163	Scotch Brite Polishing Cone Adapter and Polishing Cone 
3WBB + CW434MGPXB	4" Wire Brush 
CW434MGPX + CW434	4" Cotton Wheel with adaptor 
CD12 + AF1213M220 + SBW32T14	1/2" Drill Chuck with Key 

PART #	DESCRIPTION
AMSBWC + MSBW11	Mini Scotch Brite with Arbor 
SBW16 + 317863MGPXB	Scotch Brite wheel with bayonet 
GRENADE + 86162070	Sanding attachment 
86162050 + 79106680	Mini Sanding Cone 

WARRANTY INFORMATION

MGPX Equipment and Equipment accessories are warranted for manufacturing defects for 12 months from the date of invoice from the Landis International warehouse or from an authorized distributor. Items will be replaced or repaired at Landis International discretion at no charge to the customer (See MGPX Warranty Repair/Replacement Procedure and Agreement). The warranty will be void if the item has been modified, abused, or used outside of Landis International recommendations.