GRIND PRO DUAL OR DISC SANDER

Operator Manual

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GRIND PRO DUAL OR DISC ORTHO-SANDER

INTRODUCTION

The Grind Pro Dual or Disc 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 LANDIS SANDER, BE AWARE OF THE FOLLOWING:

Approved EYE PROTECTION should always be worn by the operator and others in the work area.

Always DISCONNECT ELECTRICAL SOURCE before adjustments or servicing the Sander.

Make sure machine is PROPERLY GROUNDED.

Dust generated is FLAMMABLE – DO NOT SMOKE when using Sander.

Keep generators and covers IN PLACE and in proper working order.

After making adjustments, REMOVE WRENCHES before operating Sander.

NEVER leave machine running unattended – turn power off.

Observe all SAFETY WARNINGS on the machine and in this manual.

OPERATING THE LANDIS 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 Landis 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 Sander should be positioned and leveled with the 4 white plastic legs to obtain quiet operation with a minimum of vibration.

WARNING: **All electrical work must be performed by a qualified electrician and must conform to all state and local ordinances.**

Do not, under any circumstance, tamper with, modify, or adapt the electrical plug and cord provided with this machine.

ELECTRICAL CONNECTIONS

Electrical connection may be made by either plugging the provided electrical cord into an appropriately wired electrical socket, or by wiring the machine directly into an electrical disconnect box.

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.**

NOTE: **Refer to the machinery identification plate to determine the electrical specifications of this machine in respect to voltage, phase and amperage requirements.**

WARNING: **Do not start Sander before checking for proper sanding belt tracking.**

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 Landis 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 sanding 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. Rotate the sanding shaft to see that all parts are free and not binding. You can tell that one complete revolution has been made when the joint of the sanding belt has gone by the sanding wheels twice.

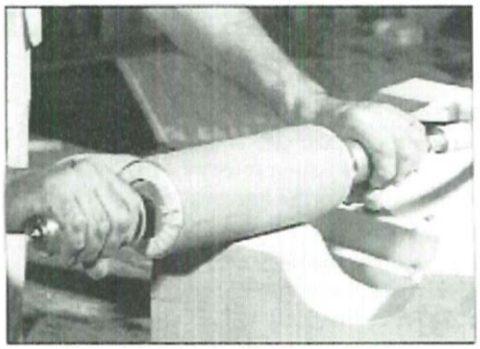
3. Rotate the Naumkeag by hand to see that the sanding pad is not damaged and the shaft not bent. Optional accessory.

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.

Care and Use Sheet

Pneumatic Drum Sanders



The following information will assist you in obtaining maximum operating efficiency and years of trouble free service from your ToolMasters Pneumatic Drum Sander – one of the finest sanding instruments on the market today.

Operating Pressure

DO NOT OVER INFLATE.

The correct amount of rubber tube pressure can easily be determined by a little experimenting. The pressure depends on the size of the drum, the rpm, and the work being done.

Suggested Air Pressure for ToolMasters Pneumatic Drum Sanders

Drum Size	Air Pressure lbs. per sq. in.	Maximum psi
1-1/8"	8	10
1-3/4"	8	10
2-1/4"	8	10
3-1/4"	6	8
4-3/8"	6	8
6-1/4"	2	2-1/2
8-1/4"	1-1/2	2

Warning:

When inflating, DO NOT exceed the above maximum psi. Possible damage to the drum or operator could arise from over inflation.

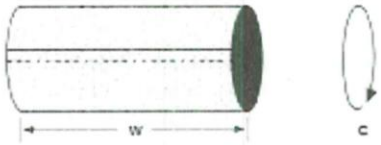
Installing Abrasive Sleeves

Deflate the rubber tube to install the abrasive sleeve. Place the sleeve on the drum so that the work will be sanded in the direction of the lap. Do not sand against the lap as this may tend to pull the lap open.

Ordering Abrasive Sleeves

(ready to use)

ToolMasters does not supply abrasive sleeves. They may be purchased from a local abrasive supplier. When ordering abrasive sleeves, indicate that they are to be used on a ToolMasters Pneumatic Drum Sander, and specify the advertised drum diameter and length.



Dimensional Chart

Pneumatic Drum No.	Drum Dia.	Sandpaper Belt	
		Width	Circumference
*081-1600	1-1/8"	6"	3-17/32"
081-2734	2-1/4"	7"	7-15/32"
081-2934	2-1/4"	9"	7-15/32"
081-2910	2-1/4"	9"	7-15/32"
081-3714	3-1/4"	7"	10-5/8"
081-3914	3-1/4"	9"	10-5/8"
081-4714	4-3/8"	7"	13-3/4"
081-4914	4-3/8"	9"	13-3/4"
081-6714	6-1/4"	7"	20"
081-6914	6-1/4"	9"	20"
081-8914	8-1/4"	9"	26-5/16"
Portable Touch-Up Drum			
*082-3120	1-1/8"	6"	3-17/32"
*082-3121	1-1/8"	6"	3-17/32"
082-3150	1-3/4"	6"	6"
082-3151	1-3/4"	6"	6"
082-3490	2-1/4"	8"	7-15/32"
082-3500	3-1/4"	9"	10-5/8"
082-3501	3-1/4"	10"	10-5/8"

* These items do not have protective canvas covers. All other drums listed are with protective canvas cover.

Recommended Abrasive Material Grades

Wood

For the roughing operation we suggest resin aloxite cloth of 80 grit or less.

For the finishing operation use resin garnet (soft back) cloth of 100, 120, or 150 grit.

Metal

Aloxite material of 80 grit or less is recommended for the roughing operation, and 100 grit to 150 grit for the finishing operation.

Repair of Pneumatic Drums

The canvas sleeve and rubber tube on your Pneumatic Drum Sander are easily replaced. We recommend ordering our drum repair kit (091-0001) when replacing the rubber tube.

Repair Procedure

1. Before ordering replacement canvas sleeves or rubber tubes, measure your Pneumatic Drum across the diameter and length as illustrated in figure 1 "A" and "B" on this page. Use these dimensions when ordering replacement sleeves, tubes, or repair parts. See Replaceable Canvas Sleeves and Replaceable Rubber Tubes charts on this page.
2. Canvas sleeve replacement. Deflate drum; loosen the holding wires at each end of drum. Remove canvas sleeve; inspect and clean rubber tube. Replace canvas sleeve; tighten holding wires at each end. Cut off excess wire and turn twisted ends inside canvas sleeve. Replace sanding sleeve and inflate drum. Do not over inflate.
3. Valve stem replacement. Deflate drum; remove valve stem core. To remove valve stem, use EASY-OUT.

3a. Remove valve core from new valve stem part #092-0001. Apply sealant to outer valve stem body and press valve stem into hole. Allow six (6) hours for sealant to set up.

3b. Replace valve core and check for leakage. Do not submerge in water with canvas sleeve on.

4. Rubber tube replacement. Deflate drum; remove sanding sleeve and canvas sleeve. Remove all screws on both ends of drum. Remove drum end rings. Remove rubber tube from drum ends. Clean all rubber and foreign material from drum ends. Check air valve in drum end; replace if damaged. See valve replacement procedure on this page. Turn ends of replacement tube inside out and rough surface prior to installation. Slide new rubber tube on one drum end; apply rubber adhesive to 1/2" of exposed drum end plate. Allow adhesive to become tacky. Roll or pull rubber tube over drum end plate. A strip of electrical tape tightly wound around rubber tube and drum end will insure proper bonding. Repeat step four (4) on opposite end.

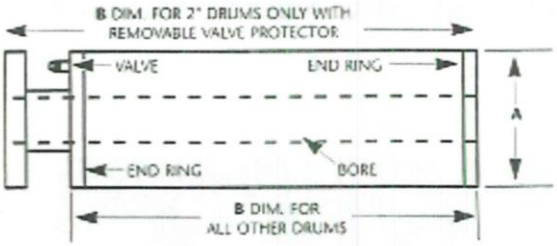
4a. Allow a minimum of six (6) hours bonding time. After six (6) hours, remove electrical tape and trim excess rubber from the ends. Place drum end rings in position, align screw holes, and start all screws, but do not tighten. Tighten screws equally around drum end rings. Screws are part #092-0002.

4b. Inflate drum; replace canvas cover and sanding sleeve. Inflate drum to desired hardness.

If drum still loses air, repeat steps 3 or 4.

To Order Canvas Sleeves or Rubber Tubes

Figure 1 — Pneumatic Drum



2" Drums

Specify the drum diameter and the length of the drum. Include the valve protector when measuring the length. (Refer to the Pneumatic Drum drawing.)

All Other Drums

Specify the drum diameter and the length of the drum. Measure the length of the bore though the drum. (Refer to the Pneumatic Drum drawing.)
Note: When ordering, always specify the drum diameter first and the length second.

Replaceable Canvas Sleeves

Bump Free Part No.	Drum Size	
	A-Dia.	B-Length
085-5016	1-3/4"	6"
085-5027	2-1/4"	7"
085-5029	2-1/4"	9"
085-5037	3-1/4"	7"
085-5039	3-1/4"	9"
085-5310	3-1/4"	10"
085-5047	4-3/8"	7"
085-5049	4-3/8"	9"
085-5067	6-1/4"	7"
085-5069	6-1/4"	9"
085-5089	8-1/4"	9"

Replaceable Rubber Tubes

Part No.	Drum Size	
	A-Dia.	B-Length
083-1600	1-1/8"	6"
083-1605	1-3/4"	6"
083-2700	2-1/4"	7"
083-2900	2-1/4"	9"
083-3700	3-1/4"	7"
083-3900	3-1/4"	9"
083-3100	3-1/4"	10"
083-4700	4-3/8"	7"
083-4900	4-3/8"	9"
083-6700	6-1/4"	7"
083-6900	6-1/4"	9"
083-8900	8-1/4"	9"

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 Landis Sander daily.

2. Shake dust bag daily. Empty it weekly. (Optional dust collecting system)

   After cleaning the machine, turn dust extraction motor off. While the motor is coasting to a stop, shake bag vigorously.

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

For better suction, gates have been installed behind hoods. By opening and closing the appropriate gates, suction can be controlled.

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.

Do not operate machine without hoods properly installed.

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. V-Belt – Check tension and adjust if necessary.

LUBRICATION

Your Landis 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.

V-BELT ADJUSTMENT AND REMOVAL

The V-Belt on the Landis Sander should be checked monthly for proper tension and general condition. Loose V-Belt will decrease the power available to the various tools and lower the efficiency of your Sander.

If you discover a worn or frayed belt, replace it now so it won't break at an inconvenient time.

WARNING: **Disconnect electrical power supply before working on the machine.**

TO CHECK V-BELT TENSION:

1. Disconnect the electrical power supply.

2. Check the tension of the V-belt running to the motor; it should depress approximately ½" when pressed in the middle with moderate force.

3. Rotate the V-belt by hand, visually inspecting the belt for damage.

4. If tensions or conditions are bad, adjust tension or replace V-belt.

WARNING: **Do not over tighten V-belt, as to do so will cause rapid belt wear and premature bearing failure.**

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

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.**

DUST EXTRACTOR MOTOR (Optional accessory)

The dust extractor motor can be easily removed from the back of the machine.

To remove the motor, these directions should be followed.

1. Disconnect the electrical power supply.

2. Remove motor electrical box plate and observe the electrical wires connected.

3. Mark the electrical wires to the motor such that you will be ABSOLUTELY CERTAIN where to reconnect them to the new motor.

4. Disconnect the electrical wires and the connector on the motor box.

5. Remove the eight (8) nuts and washers holding the fan housing to the machine.

6. Remove entire assembly of fan housing and motor plate from the machine.

7. Remove the top cover by loosen the ten (10) screws on top of the motor shaft.

8. Loosen the bolt on top of the motor shaft.

9. Pull the blower wheel off.

10. Remove the four (4) screws that hold the motor to the fan housing.

11. Reassemble with new motor in reverse order of above.

12. Reconnect the power supply.

13. Turn the blower motor on and place your hand near a dust extraction port to see whether the blower is not running backwards.

    If you do not already know how to fix this without referring to this manual, call a qualified electrician.

WARNING: **Be absolutely certain to reconnect the electrical wire to the proper terminals.**

Failure to do so can result in improper motor rotation, a ruined motor, fire, or injury to yourself.

SANDING MOTORS

To remove the motor, these procedures should be followed:

1. Disconnect the electrical power supply.

2. From the rear of the machine, remove the four (4) screws, nuts, and washers holding the motor. Remove V-belt.

3. Disconnect the electrical wiring by removing the electrical plate on the end of the motor. Mark the electrical plate on the end of the motor. Mark the electrical wires to the motor such that you will be ABSOLUTELY CERTAIN where to reconnect them on the new motor.

4. Reassemble with new motor in reverse order to the above procedures.

NAUMKEAG MOTOR (optional)

To remove the Naumkeag motor, these procedures should be followed:

1. Disconnect the electrical power supply.

2. Remove four (4) screws, nuts and washers that hold motor to swivel plate. Remove motor.

3. Loosen set screw on Naumkeag shaft and remove shaft.

4. Reassemble with new motor in reverse order to above procedures.