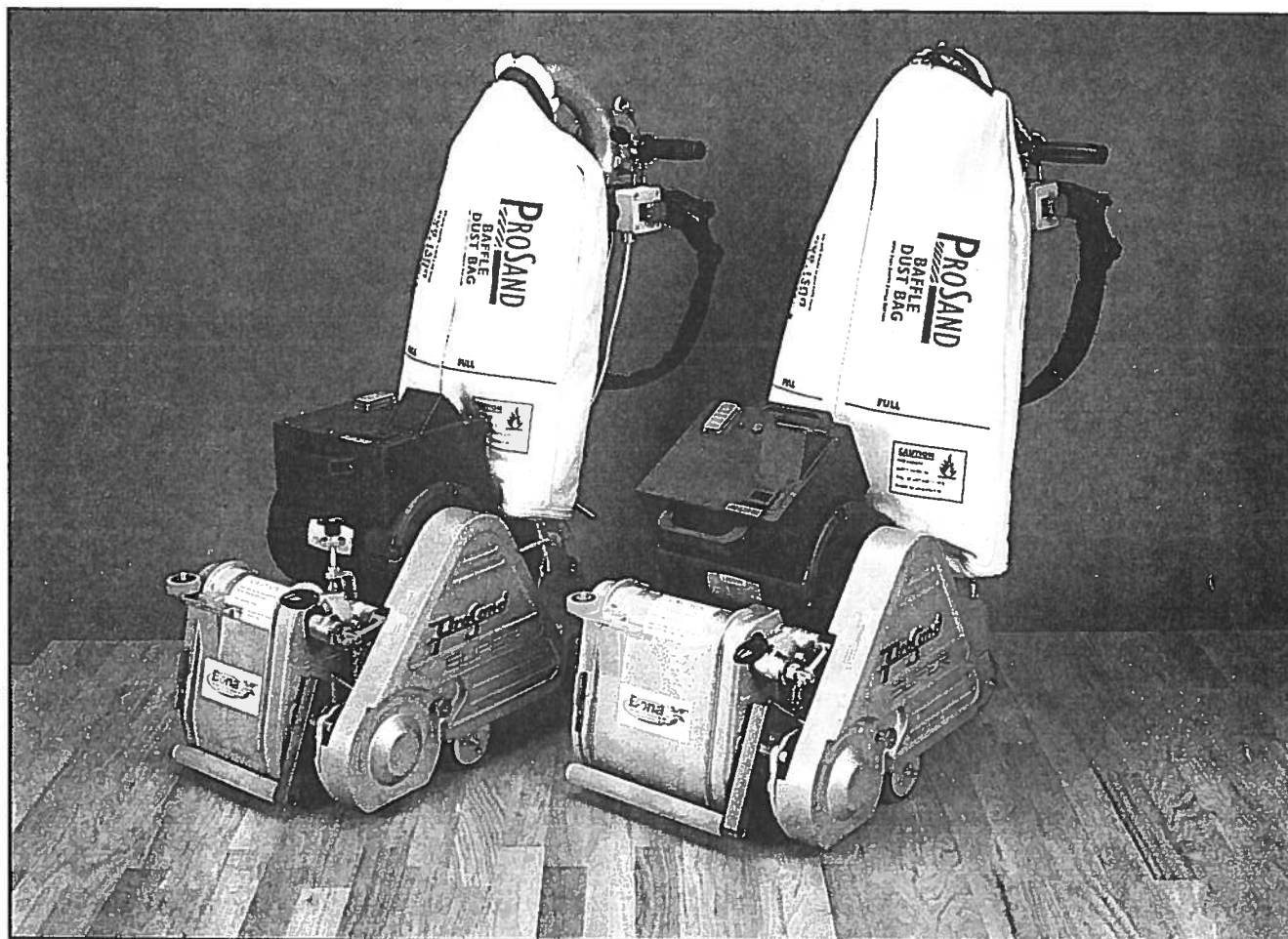


Bona

PROSAND® SUPER 8/10

Owner's Manual and Floor Sanding Guide



Read This Manual

This Manual has important information for the use and safe operation of these machines. Failure to read this manual prior to operating or attempting any service or maintenance procedure to your ProSand® machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of these machines before using it. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate these machines.

Si Ud. o sus operadores no pueden leer el Inglés, el contenido completo de este manual será explicado antes de intentar operacion de esta maquina.

All directions given in this manual are as seen from the operator's position at the rear of the machine.

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THANK YOU and congratulations on your purchase of the ProSand® Super 8 or 10 hardwood floor sanding machine. This instruction manual has been designed as a guide for operating and servicing your ProSand® sanding machine. *Read this manual completely before assembling or operating this machine.*

This machine offers you craftsmanship and features that will enhance your professional abilities and improve your daily production. A well maintained ProSand® belt sanding machine offers the machine user the opportunity for virtually chatter-free sanding with exceptional power, dust evacuation, and maneuverability. The operation and service recommendations made in this manual are designed to help you, the operator, obtain the best possible performance from your ProSand® machine.

Regular maintenance is the KEY to obtaining top performance from any machine. Proper maintenance varies with the skills of the mechanic, choice of procedure, and the tools and parts available. Before attempting a service or repair, make certain that you are thoroughly familiar with the machine and have the right tools. Any questions pertaining to the operating or service of this machine should be directed to the Bona Service Center or an *authorized* ProSand® dealer.

The headings WARNING, DANGER, or NOTE are used to warn you that steps must be taken to prevent damage to the unit and/or personal injury or property. Make certain that you read all instructions carefully before proceeding with the operation of the sanding machine.

Make certain that the warranty card is filled out by the distributor from whom you purchased the machine, and returned to the Bona Service Center.

Please record your Super 8 or 10 serial number for future reference or if you should need to contact the factory for any reason.

Date of Purchase ____/____/____

Serial Number ____ - ____

Model: Super 8 ☐ Super 10 ☐

Operator Safety Instructions



DANGER means: Severe bodily injury or death can occur to you or other personnel if the **DANGER** statements found on this machine or in this Owner's Manual are ignored or are not adhered to. Read this entire manual before operating this machine.



WARNING means: Injury can occur to you or to other personnel if the **WARNING** statements found on your machine or in this Owner's Manual are ignored or are not adhered to. Damage to the machine or to other property may occur as well, if the **WARNING** is ignored.

NOTE: The reading and understanding of this Owner's Manual is imperative prior to operating this machine. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine. Si Ud. o sus operadores no pueden leer el inglés, el contenido completo de este manual será explicado antes de intentar operacion de esta maquina.



Sanding/finishing wood floors can create an environment that can be explosive. The following safety procedures must be adhered to:

- ✓ Cigarette lighters, pilot lights, and any other sources of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely, if possible, from the work area.
- ✓ Work areas that are poorly ventilated can create an explosive environment when certain combustible materials are in the atmosphere; i.e., solvents, thinners, alcohol, fuels, certain finishes, wood dust and other combustible materials. Floor sanding machines can cause flammable material and vapors to burn. Read the manufacturer's label on all chemicals being used to determine combustibility. Keep the work area well ventilated.
- ✓ Remove the contents of the dust bag when the bag is 1/3 full. Remove the contents of the dust bag each time you finish using the machine. Never leave a dust bag unattended with sanding dust in it.
- ✓ Do not empty the contents of a dust bag into a fire.
- ✓ Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate these machines until they are completely assembled. Keep all fasteners tight. Keep adjustments according to machine specifications.



Electrocution could occur if the machine is used on a power circuit that repeatedly trips or is undersized. Have a licensed electrician check the fuse, breaker, or power supply.



Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the machine from all power.



Electrocution could occur if the machine is used on an underground electrical circuit. Never remove or disable the grounding supply conductor on the electrical cord. Consult an electrician if the grounding conductor is missing or if you suspect your circuit is not grounded properly.

Operator Safety Instructions (cont.)



Use of this machine with a damaged power cord could result in an electric shock. Do not use the cord to pull the machine.



Electrocution or injury could occur if the power cord is run over and damaged by the sander. Keep the cord from contact with the sanding drum and pulleys. Always lift the cord over the machine and sand away from the cord.



Moving parts on this machine can cause serious injury and/or damage. Keep hands, feet, and loose clothing away from all moving parts of the sander.



Operating a sander without all guards, doors, or covers in place can cause an injury or damage.



Injury to the operator or bystanders could occur if the machine's power is on while performing maintenance, changing or adjusting the belt, or changing the dust bag.



Airborne sanding dust should not be breathed in while operating a sander. Always wear a dust respirator while operating sanding equipment.



Injury to the eyes and/or body can occur if protective clothing and/or equipment is not worn while sanding. Always wear safety goggles, protective clothing, ear protection, and a dust mask while sanding.



Bodily injury could occur if power is applied to the machine with the power switch already in the "ON" position. Always check to assure the power switch is "OFF" before connecting the machine to its power source.



Maintenance and repairs performed by unauthorized personnel could result in damage or injury. Maintenance and repairs performed by unauthorized personnel will void your warranty. Servicing of this unit must always be referred to an authorized ProSand® Dealer.



Use of this machine to move other objects or to climb on could result in an injury or damage. Do not use this machine as a step or furniture. Do not ride on this machine.



Damage could occur to this machine if not properly kept in a dry storage area.



Serious damage to the floor can occur if the machine is left running in one spot while the sanding drum is in contact with the floor. Read page 9 carefully regarding procedures with this machine.

Assembly and Transport

INITIAL ASSEMBLY

1. Remove all parts from shipping crate.
2. Install dust pipe #41 into dust pipe support #3 on chassis and tighten lever #3.06. See Fig. 01. Make sure steering head is straight.
3. Attach control rod #42 then tighten both wing nuts.
4. Open belt guard by removing knurled nut #7.02. Place motor on chassis, making sure motor mount bar rests in grooves of chassis. Tighten knurled nut #82 on motor mount. See Fig. 02.
5. Install drum and fan belts. Tighten belts to desired tension by adjusting star knob #5.03 (SUPER 8) or the motor mount tension bolt #ST150.03 (SUPER 10). The belts should have about 1/4" flex. To tighten fan belt, you adjust the V-belt tensioning pulley using a 10mm hex wrench. See Fig. 03a and Fig. 03b. Note: It is advised to leave the drive belts in a relaxed state when the machine is not in use. This will allow the belts to relax back to their original dimensions rather than stretching. It is also advised to leave the belts a little loose when starting the motor after hours of shut down. This will reduce stress on the motor bearings and drive belts. Allow the motor to run for a minute, then carefully tighten the belts as described above. Note: It is advised to re-check the belts after a few minutes of running activity. They may loosen from warming and stretching and slip on their pulleys causing a loss of machine performance.
6. Close belt guard and replace knurled nut.
7. Attach sanding dust bag.

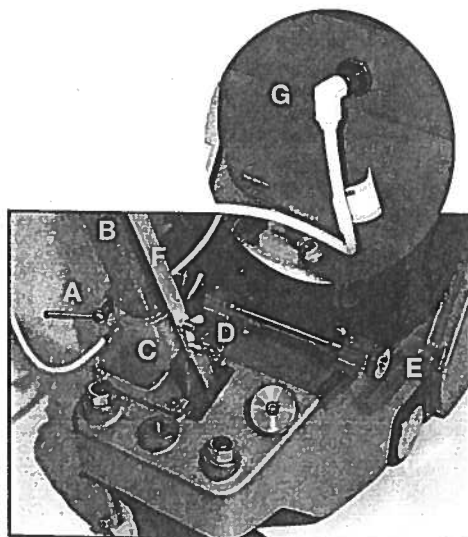


Fig. 01 A. Lever #3.06 B. Dust pipe #41 C. Dust pipe support #3 D. Wing nuts E. Knurled nut for motor mount #82 F. control rod #42 G. Quick Disconnect #76.09

TRANSPORTING MACHINE

To ease transportation of the ProSand® Super 8 and Super 10, the motor can be removed from the machine in a few seconds. To do this:

1. Make sure the motor is unplugged from extension cord.
2. Remove E-stop quick disconnect #76.09A
3. Open the belt guard and turn the star knob #5.03 - Fig 03a (or the motor mount tension bolt on the Super 10 - Fig 03b) until both belts are slack. Carefully peel the belts off their pulleys.
4. Loosen the knurled nut #82 on the motor mount until it allows the motor to be lifted clear off the mount.
5. (Super 10 Machine) Loosen the motor mount tension bolt with wrench (supplied) until both belts are slack - Fig 03b. Carefully peel the belts off their pulleys.

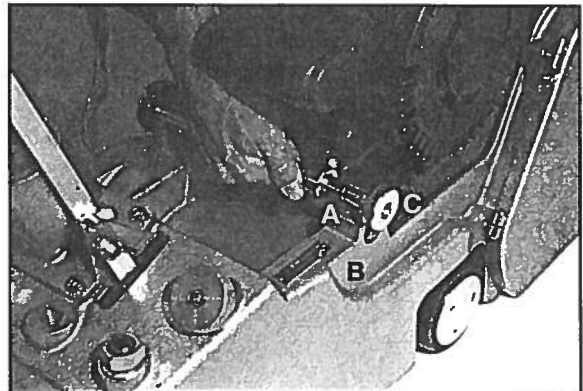


Fig. 02 A. Motor mount bar B. Motor mount grooves C. Knurled nut #82.

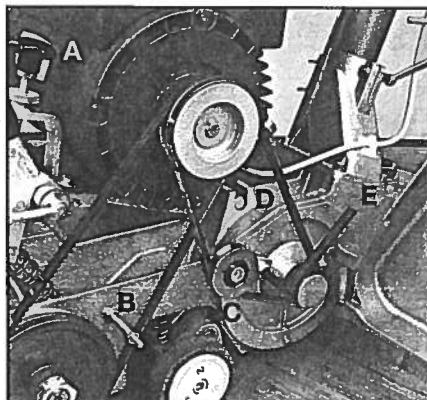


Fig. 03a A. Star knob #5.03 B. Drum belt C. V-belt tensioning pulley #74 D. Fan belt E. 10mm Hex wrench

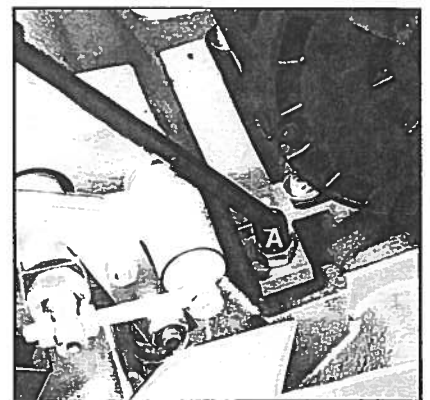


Fig. 03b A. Motor mount tension bolt

Introduction and Machine Specifications

MAIN OPERATING COMPONENTS	PART NUMBER	BONA ITEM NUMBER
A. Height regulating lever (for sand drum)	49	AS2249.00
B. Adjustable rear wheels		
C. Drum pressure regulating screw	4	AS2204.00
D. Drum access door	8.03	AS2208.03
E. Start/Stop button		AS2276.10.699
F. 5 hp motor		
G. Control rod	42	AS2242.00
H. Steering head	37	AS2237.00FE
I. Emergency stop switch	76.09	AS2276.09COM
J. E-stop quick disconnect	76.09A	AS2276.09A
K. Left hand grip/safety drum lock	47	AS2247.00
L. Carrying handle	73	AS2273.00
M. Drum pulley (steel)	23	AS2223.00L
N. Tension lever (roller)	14.05	AS2214.05
O. Fan shaft with pulley	33.87	AS2233.87
P. Belt guard	98	AS2298.00
Q. V-belt tensioning (star knob)	5.03 (SUPER 8)	AS2205.03
R. Motor pulley	76.01L	AS2276.01.96
S. Wall guide (bumper wheel)	11	AS2211.00
T. V-belt tensioning pulley	74	AS2274.00
U. Recessed 230V-30 amp power plug		AS1200021
V. Tension roller complete (Super 8)	15.21	AS2215.21
Tension roller complete (Super 10)	ST15.21	AS2315.21
W. Drum retaining nut	17	AS2217.00
X. Sanding drum (Super 8)	13	AS2213.00
Sanding drum (Super 10)	ST13	AS2313.00
Y. Motor mount tension bolt (see Figure 03b on page 5)	ST150.03 (SUPER 10)	AS23150.03

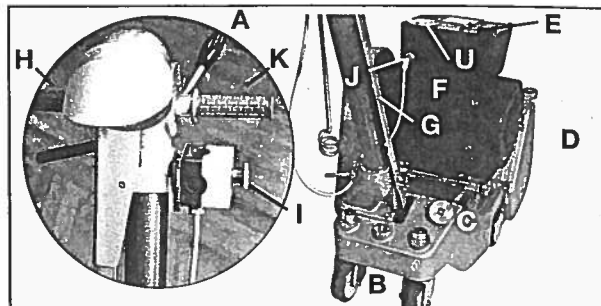


Fig. 04

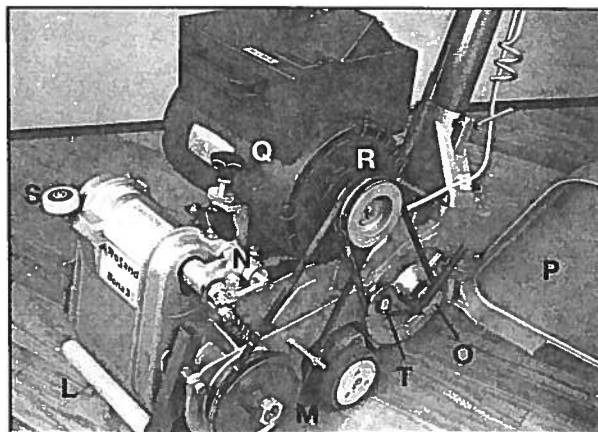


Fig. 05

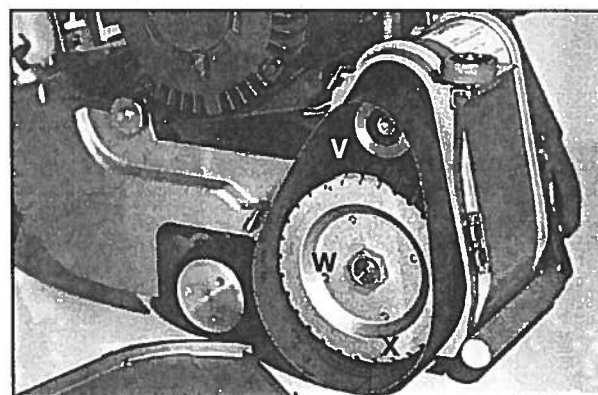


Fig. 06

MACHINE SPECIFICATIONS FEATURING:

- Precision-balanced motor
- Emergency stop switch
- 5 hp 230 V motor
- German-engineered chassis
- 1-year warranty/5-year motor windings
- Heavy duty commercial construction
- Grooved sanding drum for aggressive sanding
- Virtually chattermark-free sanding
- Precision drum pressure adjustment
- Tool kit and 50' ft. cord included
- ProSand® waist belt
- Dual or single rear wheel action

Specifications	Super 8	Super 10
MOTOR 230V	HZ, 60 23 FLA 5 HP	HZ, 60 23 FLA 5HP
Push Button Start/Stop	DPB F20 Contactor	DPB F20 Contactor
Starter Capacitor	708-850 MFD 125 VAC 60HZ	708-850 MFD 125 VAC 60HZ
Running Capacitor	GE 297F9608 PD 30-370	GE 297F9608 PD 30-370
Abrasive Belt Size	7 7/8" x 29 1/2"	9 7/8" x 29 1/2"
Drum Belt Size	3VX 395	3VX 385
Fan Belt Size	3VX 300	3VX 300
Drum Speed	2,250 RPM	2,300 RPM
Wheels	Replaceable 4 inch OD	Replaceable 4 inch OD
Bearings - Travel Roller	SKF2205E2RSITN9 Swivel	SKF2205E2RSITN9 Swivel
Bearings - Drum	FAG NA4932/6205 RSI	FAG NA4932/6205 RSI
Weight	210 lbs	225 lbs
Dimensions	36" x 15 1/4" x 41 3/4"	37 3/8" x 17" x 41 3/4"
Thermal Overload	Yes	Yes

Electrical

ProSand® Super 8 & Super 10, 230 Volt

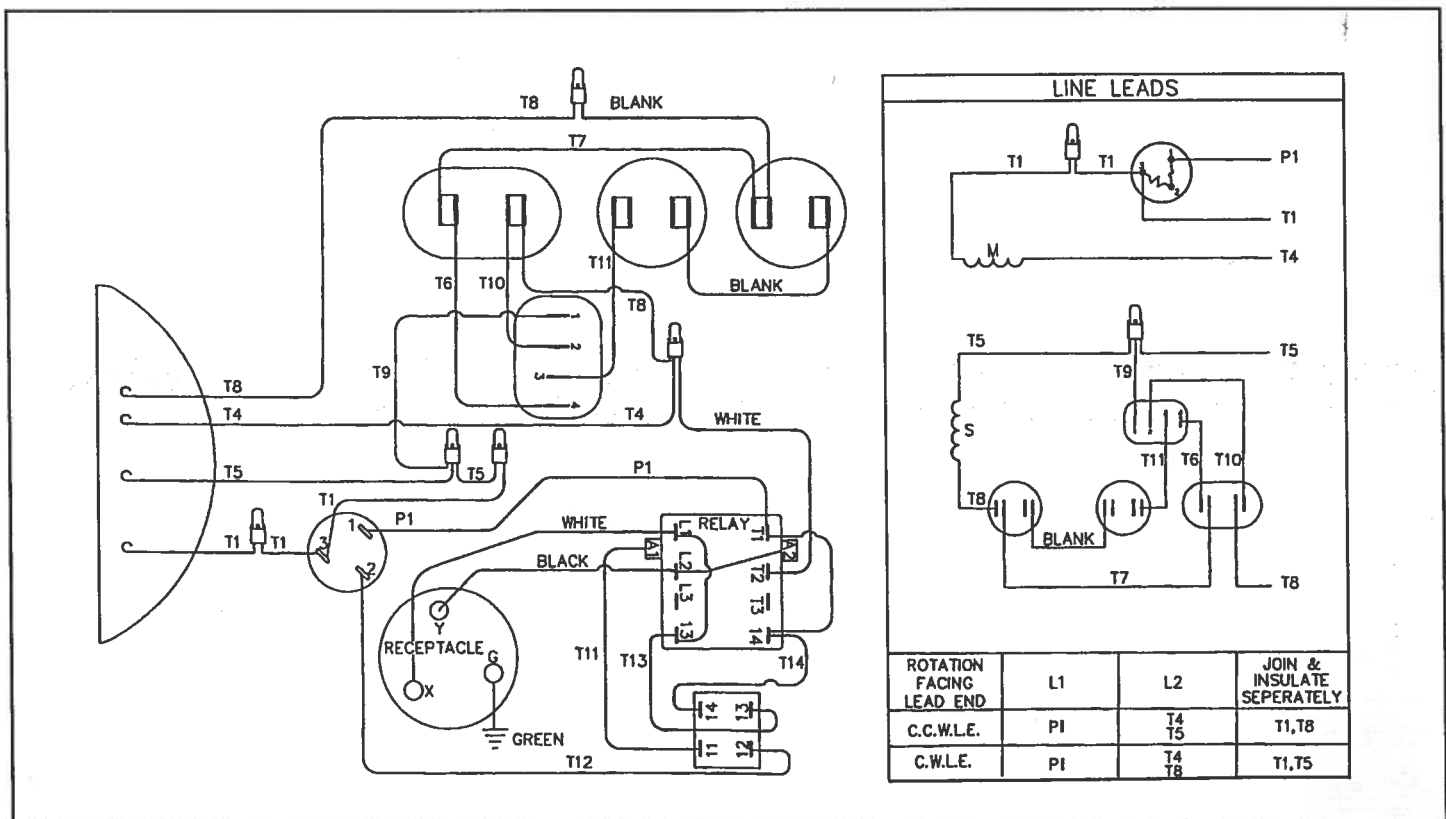
CAUTION: These machines will operate only on AC current and on electrical voltage shown on the motor nameplate. **Operating these machines under continuous low voltage conditions may result in premature electrical failure of the windings, switches, contactors or any electrical parts where excess heat may diminish their current carrying capacity.** Only compatible, grounded 30 amp circuits should be used as a power source.

These machines are supplied with a 50', 10 gauge, 3 wire stranded copper extension cable with U.L. approved three-terminal twist lock connecting plugs compatible with the motor recessed plug. When greater cord range is needed, refer to the table below for extension cord information.

Feet/Wire Gauge (stranded copper)			
Source Voltage	0-100'	100'-200'	200' or more
208 volt	6 gauge	use voltage booster	use voltage booster
230 volt	10 gauge	10 gauge	use voltage booster

NOTE: If motor appears to labor or take a considerably longer time to come up to speed, check the voltage supply at source (circuit breaker or power outlet) and at the cord connection nearest the motor with an approved voltage meter. Sanding with insufficient voltage will damage the motor. Loose connectors or damaged cable may cause enough electrical resistance to drop voltage and raise amperage high enough to cause serious heat damage to electrical components. *Connectors and cables should be checked regularly for continuity and solid contact.* (Other factors that may cause a motor to slow or bog down are: too much drum pressure for the abrasive grit being used, too slow a walking speed, drive belt slippage, floor condition or a combination of all the above.)

Motor/Switch Wiring Diagram
PROSAND® SUPER 8 & SUPER 10



Machine Set-Up for Sanding

To set up your machine for sanding, follow this procedure:

1. Familiarize yourself with the machine and read all danger and warning statements. Make sure all operators of these machines have read this Owner's Manual. If they cannot read English, have the manual explained fully before allowing anyone to operate the sander.
2. Locate the power supply. The receptacle should be compatible with the plug. The receptacle must be grounded and must be fused (30 amp) to avoid an electrical hazard.
3. The dust bag comes with a string tie (attached to the bag) and a nylon strap (supplied with machine). See Fig. 07. Attach the bag to the machine dust tube by using the tie and the strap as shown. (When using the string tie, it is advised to wrap the string around the bag neck at least twice for a good hold.)
4. Wind the power cord through the curl on the cable arm. See Fig. 08. (Sand away from cord at all times.)
5. Press the tension arm release lever forward until it locks. See Fig. 09. Open access door to sanding chamber.
6. Install an abrasive belt by sliding the abrasive belt over the

tension roller and sanding drum. See Fig. 10. Refer to abrasive belt guide on page 9 for grit selection.

7. To tighten the abrasive belt, press back on the tension arm release lever until it locks. It is important that it locks so that the abrasive belt is firmly held. It should not be able to move freely when locked in place. (It is advised to keep the tension arm clean and operating freely so that it will lock in place with a crisp, firm action. Failure to lock firmly may allow the abrasive belt to slip and flutter on the drum when the motor is running.)
8. Lock sanding drum in "up" position by tightening left-hand grip/lock. Connect power cord to 230V-30 amp recessed plug on motor by twist locking the plugs together.
9. Push start button and observe the abrasive belt for proper tracking. Follow the procedures outlined in the "Sander Adjustment Procedures" on page 10 to correct the belt tracking, if necessary.
10. Close the access door. If you are not fully prepared to sand, switch the power to "OFF". NEVER leave the machine unattended with the power "ON".

NOTE: Machine is factory set to cut level.

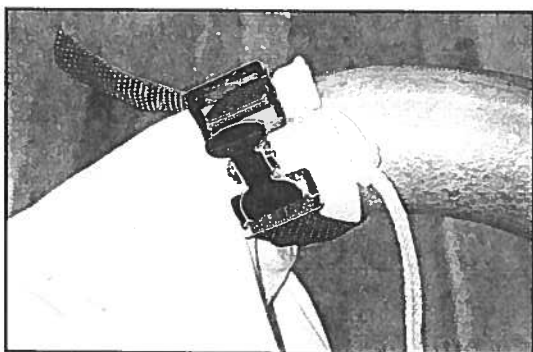


Fig. 07 Dust bag

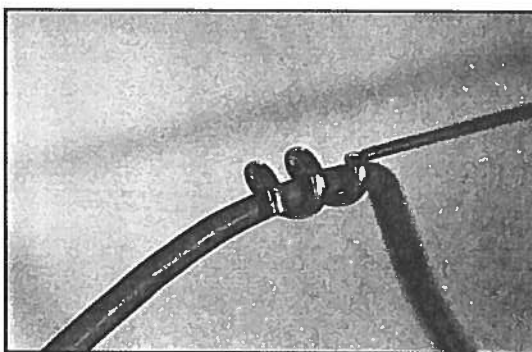


Fig. 08 Power cord

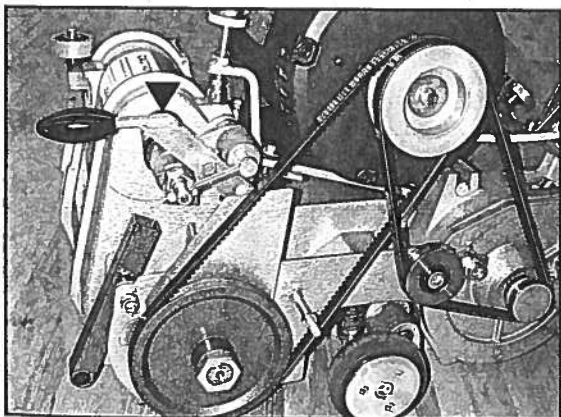


Fig. 09 Tension arm release lever (▼)

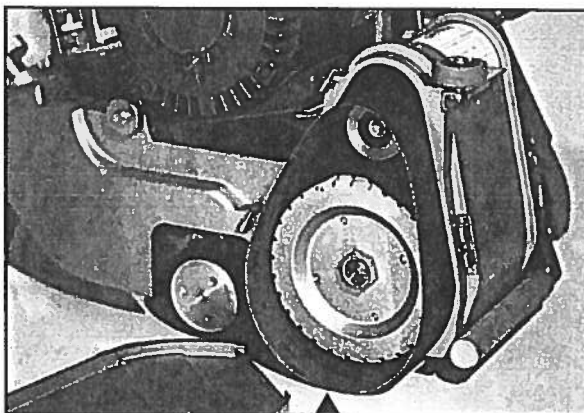


Fig. 10 Abrasive belt (▲)

Operating the Machine

SANDING PROCEDURES

1. Lock sanding drum in "up" position. Make sure all tools and debris are off the floor surface.

2. Switch on the machine.

WARNING: Serious damage may occur to the floor if machine is not moving when the sanding drum is brought in contact with the floor.

3. Work left to right. For each forward pass, move the machine 4 to 6 inches to the right of the pass you have just finished. Retrace your reverse pass without overlapping. By working *left to right* the offset (left wheel) will be on freshly sanded surface. (The abrasive grit used, drum pressure and walking speeds used are critical factors for clean, flat sanding. As always, it is best to use the finest abrasive possible for the first cut. This will often result in a savings of time and materials and leave more wood on the floor.)

See Diagrams A through E.

4. Feather-cut in by easing the sanding drum down onto the surface with the control lever while the sander is in motion.

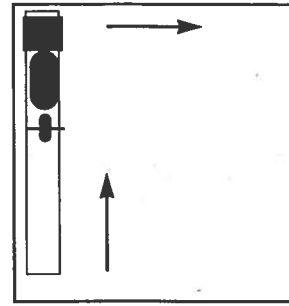
5. When the sanding drum is fully engaged with the surface, gradually adjust your pace for adequate finish removal. Keep sander in motion while the drum is engaged with the surface, or dwell marks will occur.

6. Sand in the direction of the grain whenever possible. Sand at a constant pace. Gradually feather-cut at the end of each pass by easing the drum off the floor with drum lever. Stagger each feather cut so as not to leave an obvious stop line across the floor.

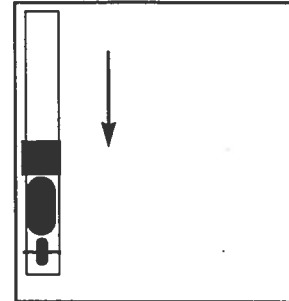
7. Empty dust bag when it is 1/3 full. This will allow the vacuum system to remain most effective while minimizing the danger of fire. Empty dust into a metal container OUTSIDE OF THE BUILDING.

*Consult the NOFMA Floor Finishing Technical Service Manual for complete finishing instructions.

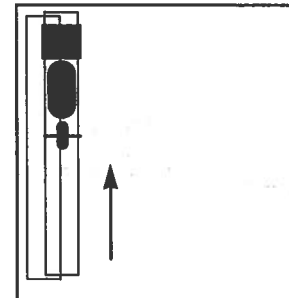
ABRASIVE BELT GUIDE		
SANDBELTS	GRIT	USE
OPEN COAT	4-1/2 - 12	Removing old surface coating from floors.
	4 - 16	
	3-1/2 - 20	
	3 - 24	
COURSE	2-1/2 - 30	Fast leveling of uneven floors.
	2 - 36	
	1-1/2 - 40	
MEDIUM	1 - 50	First sanding of new wood.
	1/2 - 60	Second sanding of old wood.
FINE	1/0 - 80	Final sanding of new or old wood floors.
	2/0 - 100	
EXTRA FINE	3/0 - 120	Final sanding of floors which require an extremely fine last cut.
	4/0 - 150	



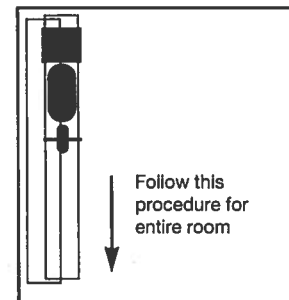
A. First pass forward, left to right.



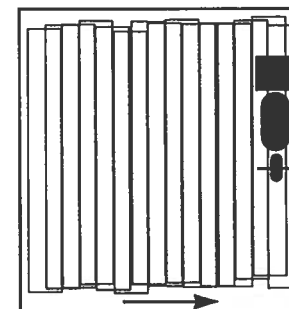
B. First pass reverse, retrace same path.



C. Second pass forward, overlap 4 to 6".



D. Second pass reverse, retrace second path forward.



E. Work the remaining sanded floor in the same fashion, left to right.

Sander Adjustment Procedures

SANDING PRESSURE

1. Adjust the drum pressure regulating screw clockwise (down) to increase the sanding pressure when making the coarse and medium cuts. See Fig. 11.
2. Rotate the drum pressure regulating screw counter-clockwise (up) to decrease the sanding pressure when making the finishing cut.



BELT TRACKING

WARNING: Wear eye protection and restrain all loose clothing before making these adjustments.

1. Locate the tension roller holder, the adjusting screw and lock nuts per Diagram 1.
2. Lock sanding drum in the "up" position and open the sanding chamber access door. Make sure the tension lever is locked in the "up" position so that the abrasive belt is tight on the roller and drum.
3. Connect machine to power and push start button.
4. Looking from a safe distance, observe how the belt tracks on the sanding drum. To cause the belt to move to one side or the other, you must loosen either the inside #14.12 or outside lock nut #14.12 located on the adjusting screw #14.11 and close in with the other lock nut to tighten.

These nuts should be moved in very small increments.

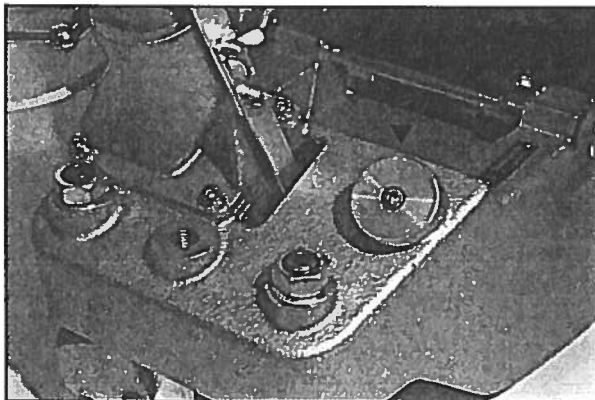


Fig. 11 Drum pressure regulating screw (▼)

5. Once the belt tracks satisfactorily, make sure nuts are firmly tightened, and replace the sanding chamber access door. You are ready to sand.

LEVELING

Normal wear of the sanding drum cover and wheel surfaces may necessitate adjusting the sanding drum pitch (re-leveling) of the machine. This is always required when the drum is replaced or resurfaced. **Note:** When performing the leveling procedure, it is essential that the machine be on a level surface.

1. Tip the machine and rest it on the right side, opposite the belt guard. Locate the right-wheel cam #61, and notice a mark on it and the wheel bracket #63 prior to loosening the cam adjustment screw #63.01. See Figs. 12 and 13. This mark identifies your starting point. If needed, the original factory settings can be achieved by realigning the painted lines on the cam and wheel-bracket.
2. Now loosen the cam adjustment screw and turn right wheel cam as needed to adjust up or down. Only small movements are needed to adjust the pitch of the drum. The changes in drum pitch should be checked by tightening the cam adjustment screw and sanding on a level piece of plywood. It may take several small adjustments to attain the desired result.
3. When the desired pitch is attained, you should mark the position on the inside of the cam. Make sure the adjustment screw is tight when the procedure is complete.

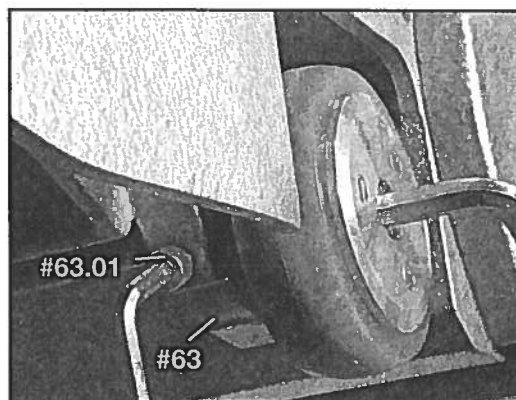


Fig. 12 Wheel cam adjustment

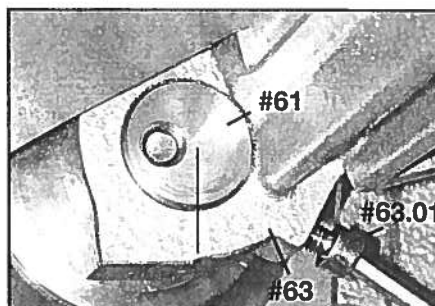


Fig. 13 Wheel cam scribe

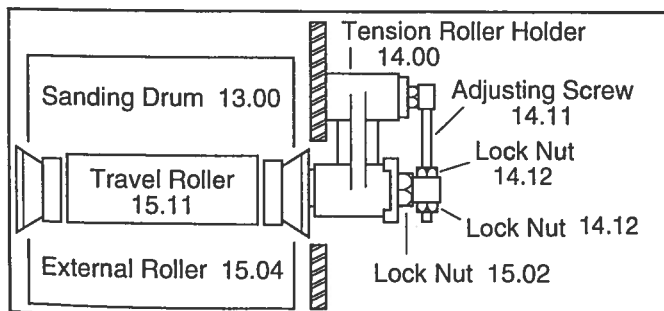


Diagram 1 - View looking down from front of machine

ProSand® Motor/Power Cord/Bag

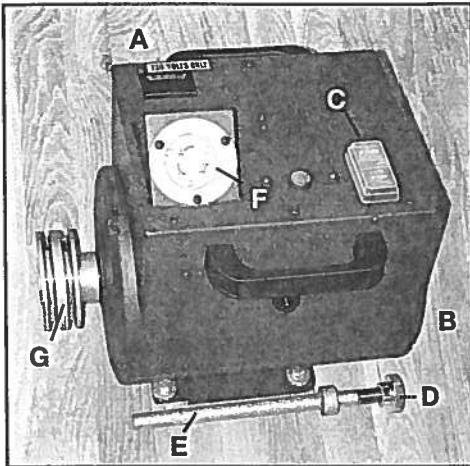


Fig. 14 5 hp motor (Inside Box)

- A. Run capacitor #76.04, sinpac switch, contact block
B. Start capacitor #76.03 C. Start/Stop button
D. Knurled nut #82 E. Motor frame #75.13
F. Recessed 230V-30 amp power plug G. 5 hp motor pulley



Fig. 15 ProSand® baffle dust bag #AS0001608 (SUPER 8) or #AS0001609 (SUPER 10)

Routine Maintenance

Routine (preventative) maintenance will prolong the life of any machine and its parts. For optimum machine performance, it is recommended that periodic inspections be made on the following items:

SANDING CHAMBER

Frequently blow out the sanding chamber to prevent large accumulations of debris which could interfere with the performance of the tension roller. Also check the travel roller for caked-on or hardened debris such as abraded finish or wax that has stuck to the metal surface.

WHEELS

Check the tires for sanding debris that may be stuck to the surface. This should be checked often (even hourly) depending on what is being sanded. Any build-up of material may cause uneven sanding or "waves" in the floor.

MOTOR

The motor should be blown out at least once a week with an air hose. Accumulated dust around the windings will cause excess heat build-up which may cause motor or electronic component failure. (Wood dust is an excellent insulator.)

BEARINGS

All bearings on the chassis should be inspected for wear and damage and greased at least every six months. Motor bearings should be checked at least once a year. Bearings can go bad any

time, so it is recommended that they be checked more often if the sander is run more than 40 hours a week and/or has excessive dust build-up in the sanding chamber. (See troubleshooting section.)

TENSION ROLLER

The travel roller and guide rollers on the tension roller system should be checked at least every six months for unusual wear. If the sander is set to sand more aggressively on one side, the rollers will wear unevenly. (See troubleshooting section.)

DRIVE BELTS

Drive belts should be checked daily for wear. They should also be checked during daily operation for proper tensioning. Belts will stretch when heated and under a load. Loose belts may slip and/or cause some chatter. (Drive belt tension should be relieved when machine is not in use.)

DUST FAN CHAMBER

The fan chamber should be checked at least once a year for debris and damage or if the machine exhibits an unexplained loss of vacuum power.

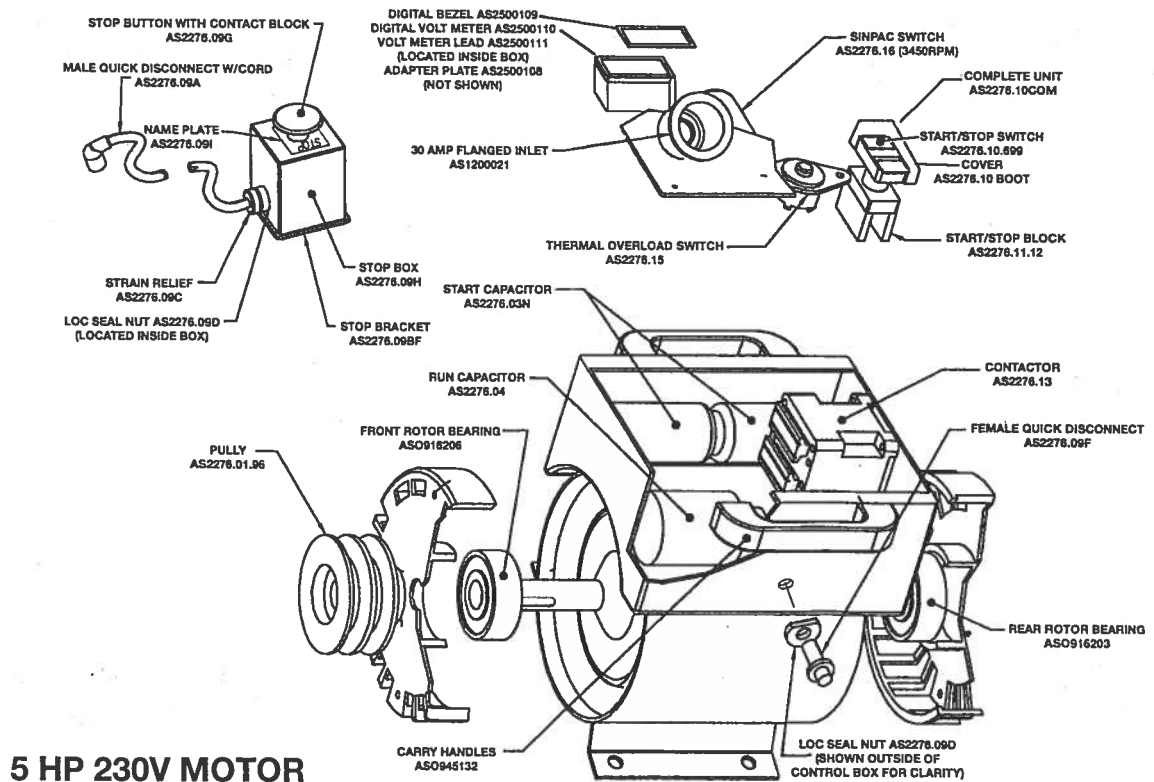
DUST BAGS

Dust bags should be turned inside out and cleaned once a day (by shaking or vacuuming) to prevent pore blockage and allow the bag to breathe properly. A clogged bag decreases the machine's dust pickup capability.

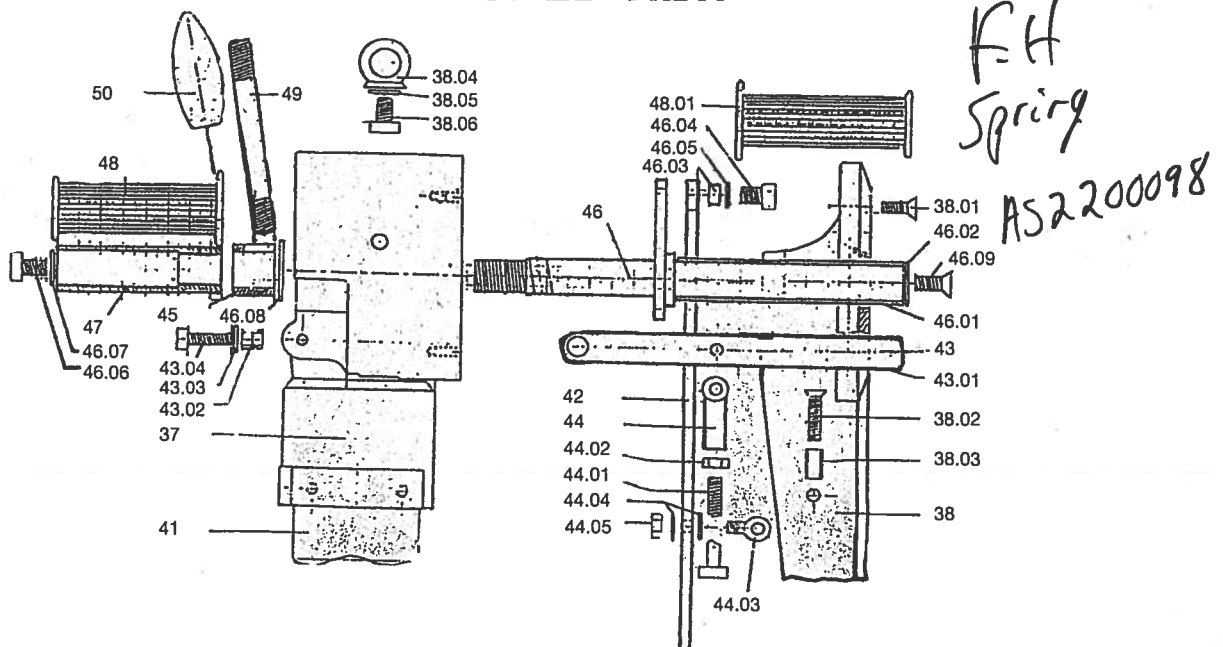
Troubleshooting

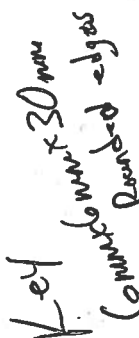
PROBLEM	CAUSE	ACTION
Burning or glazing.	Dull abrasive. Excessive sanding pressure. Too fine of an abrasive belt.	Replace abrasive. Decrease sanding pressure setting. Use coarser abrasive.
Slow Cutting.	Dull abrasive. Too fine of an abrasive belt. Insufficient sanding pressure. Insufficient voltage.	Replace abrasive. Use a coarser abrasive belt. Increase sanding pressure setting. Check power supply, cable, connectors. Use voltage booster.
Waves on sanded surface.	Debris on wheels. Flat spot on tire(s). Existing waves from previous sanding.	Remove and clean wheels. Replace tires. Sand the floor at an angle to eliminate waves.
Chatter marks on sanded surface (close evenly spaced ripples).	Flat spot on sanding drum. Sanding drum out of round. V Belt misaligned. V Belt worn.	Contact your authorized dealer or replace the drum. Align pulleys. Replace belts.
Difficult to actuate tension release lever.	Debris interferes with mechanism.	Blow out sanding chamber. Remove and disassemble mechanism. Clean out. Replace. Lubricate.
Abrasive belt hunts (seeks).	Worn or damaged rollers. Worn travel roller bearing. High edges on drum.	Replace rollers. Check for excessive play, replace. Contact your authorized dealer or replace sanding drum.
Abrasive belt will not track.	High edge on contact wheel. Travel roller worn.	Contact your authorized dealer.
Drive belts slip (squeaking or squealing sound).	Insufficient tension. Worn belts.	Tension drive belt as described in adjustment procedures. Replace belts.
Squealing, growling or grinding noise coming from machine.	Damaged and/or worn bearing.	Remove drive belts, rotate motor pulley, fan, shafts and idler pulley to locate dragging or rough bearing. Contact an authorized dealer.
Dust pick-up is poor.	Dust bag is over 1/3 full. Dust bag is dirty. Dust chute is obstructed. Fan belt tension.	Empty contents of bag. Shake debris from bag and wash. Remove fan cover and clear throat. Adjust V Belt to 1/4" flex.
Motor will not start.	Malfunctioning start button. Malfunctioning start capacitor. Malfunctioning electronic start-up switch. Low voltage from poor connection. Defective motor. No power.	Check power supply and connections. Contact authorized ProSand® dealer.
Motor runs sluggishly.	Low voltage from excessive footage, undersized extension cord, or poor connection. Defective run capacitor. Defective motor.	Check power source, cord and connections for proper voltage. Use voltage booster (refer to pg. 7). Contact authorized ProSand® dealer.
Motor starter trips/repeatedly trips.	Excessive load. Defective electronic start switch. Defective start button. Low voltage from poor connection. Defective motor. Defective capacitor.	Contact authorized ProSand® dealer.
Uneven cut.	Leveling out of adjustment. Abrasive belt tracking.	Readjust leveling (pg. 10). Adjust belt to track toward the edge of drum with deepest cut.

PROSAND® SUPER 8 AND SUPER 10 MOTOR EXPLODED VIEW



FEATHERING HANDLE EXPLODED VIEW





ProSand® Super 8 and Super 10 Parts List

Part #	Bona Item #	Part	Part #	Bona Item #	Part	Part #	Bona Item #	Part
1	Special Order	Machine chassis	22	AS2222.00	Spacer bearing-pulley	59.01	AS0916202	Ball bearings
3	AS2203.00	Dust pipe support	23	AS2223.00	Drum pulley (Alum.)	59.02	AS2258.02	Tire
3.01	AS2203.01	Mounting screws	23.00L	AS2223.00L	Drum pulley (Steel.)	59.03	AS2258.03	Felloe covers
3.02	AS2203.02	Spring tooth lock washers	24	AS2217.00	Retaining nut	59.04	AS2258.04	Retaining screws
3.03	AS2203.03	Clamping screw	25	Special Order	Drum bearing flange	60	AS2260.00	Running wheel axes w/o threads
3.04	MISC. - S3.04	Lock nut	25.01	AS2225.01	Mounting screw	60.02	AS2260.00T	Running wheel axes threaded
3.05	AS2203.05	Spacer	25.02	AS2225.02	Mounting screw	60.03	AS2260.03	Locking ring ball bearings
3.06	AS2203.06	Locking lever	25.03	AS2225.03	Lock nut	60.04	AS2260.04	Distance washers
3.07	AS2203.07	Washer	25.05	MISC - S25.05	Locking ring	60.05	AS2260.05	Mounting screws
4	AS2204.00	Drum pressure regulating screw	26	AS2226.00	Inner bearing cover	61	AS2260.00	Spring tooth lock washers
5		Spindle screw	26.01	AS2226.01	Mounting screws	61	AS2261.00	Cam w/o thread
	AS2205.COM	Spindle screw complete	27	AS2227.00	Outside bearing cover		AS2261.00T	Cam w/thread
5.01	AS2205.01	Lock Nut	27.01	AS2227.01	Mounting screws	62	AS2262.00	Main axle
5.02	AS2205.04	Knurled nut	28.87	AS2228.87	Fan flange	62.01	AS2262.01	Locking springs
5.03	AS2205.03	Star knob (SUPER 8)	28.01	AS2228.01	Mounting screws	63	AS2263.00	Running wheel brkt (S8) (w/o threads)
6	AS2206.00	Cover lock	28.02	AS2215.14	Locking rings		AS2263.00T	Running wheel brkt (S8) (threaded)
6.01	AS2206.01	Retaining screws	31.87	AS2231.87	Spacer bearing-pulley	ST63	AS2363.00	Running wheel brkt (S10)
6.02	AS2206.02	Lock notch	33.87	AS2233.87	Fan shaft with pulley	63.01	AS2263.01	Cam adjustment screw
6.03	AS2206.01	Mounting screws	34.87	AS2234.87	Spacer	64	AS2214.01	Pressure spring
7	AS2207.00	Locking screw	35.87	AS0916003	Bearing - dust collection	65	AS2265.00	Pressure regulator spring
7.01	AS2207.01	Nuts	36.87	AS2236.87	Fan	65.01	AS2265.01	Spring retaining screw
7.02	AS2207.02	Knurled nut	36.01	AS2236.01	Washer	65.02	AS2265.02	Washer
8.03	AS2208.03	Drum access door	36.02	AS2236.02	Retaining nut	66	AS2266.00	Tensioning spring screw
9	AS2209.00	Hinge w/nut	36.03	MISC - S36.03	Distance plate (shim)	66.01	AS2266.01	Lock nuts
9.01		Hinge nut (included w/hinge)	37	AS2237.00FE	Feather handle steering head	67	AS2267.00	Control rod connector
10	AS2210.00	Hinge bolts w/locking nut	38	AS2238.00FE	Cover plate for feather handle	67.01	AS2267.01	Mounting wing screws
10.01		Locking nuts (incl w/hinge bolt)	38.01	AS2238.01	Mounting screws	68	AS2268.00	Connection screw
11	AS2211.00	Bumper wheel	38.02	MISC - S38.02	Mounting screw	68.01	AS2246.03	Spacer
11.01	AS2211.01	Retaining screw	38.03	MISC - S38.03	Spacer	68.02	AS2268.02	Lock nut
11.02	AS2211.02	Washer	38.04	MISC - S38.04	Ring nut	68.03	AS2268.03	Washer
11.03	AS2211.03	Locking nut	38.05	MISC - S38.05	Tooth washer	73	AS2273.00	Carrying handle
12	AS2212.00	Bumper wheel support	38.06	MISC - S38.06	Lock screw	73.01	AS2273.01	Plastic tube
12.01	AS2212.01	Retaining screw	39	AS2239.00	Cable arm bracket	73.02	AS2273.02	Mounting screw
12.02	AS2212.02	Washer	39.01	AS2239.01	Mounting screws	73.03	AS2273.03	Plastic closing
13	AS2213.00	Sanding drum (SUPER 8)	39.02	AS2239.02	Locking screw	74	AS2274.00	V belt tensioning pulley
ST13	AS2313.00	Sanding Drum (SUPER 10)	39.03	AS2239.03	Pressure spring	74.01	AS0916201	Ball bearing
14	AS2214.00	Tension roller holder	40	AS2240.00	Cable arm	74.02	AS2274.02	Locking springs
14.01	AS2214.01	Pressure spring	41	AS2241.00	Dust pipe	74.03	AS2274.03	Spacer
14.02	AS2214.02	Pressure piece	42	AS2242.00	Control rod	74.04	AS2274.04	Tensioning roller bracket
14.03	AS2214.03	Retaining screw	43	AS2243.00	Feather handle - lifting lever	74.05	AS2274.05	Axle screw
14.04	AS2214.04	Lock nut	43.01	MISC - S43.01	Grip rubber cover	74.06	AS2274.06	Mounting screw
14.05	AS2214.05	Tension lever	43.02	AS2243.02	Spacer (feather handle)	74.07	AS2274.03	Spacer
14.06	AS2250.00	Handle	43.03	MISC - S43.03	Washer	74.08	MISC - S74.08	Lock washer
14.07	AS2214.07	Mounting screw	43.04	MISC - S43.04	Lock screw	75.13	AS2275.13	Motor frame
14.08	AS2214.08	Lock nut	44	AS2244.00	Hinge piece - feather handle	75.14	AS2275.14	Mounting screws
14.09	AS2214.09	Mounting bolt	44.01	AS2244.01	Adj. bolt - feather handle	75.15	AS2275.15	Washers
14.10	AS2214.10	Retaining screw	44.02	MISC - S44.02	Lock nut	75.16	AS2275.16	Spring washers
14.11	AS2214.11	Adjusting screw	44.03	AS2244.03	Eye screw - feather handle	S76.00L	AS2276.00LSUB	5 hp motor without pulley
14.12	AS2214.12	Lock nut	44.04	AS2244.04	Washer	S76.01L	AS2276.01.96	Motor pulley (Steel) (3450 rpm)
14.13	AS2214.13	Lock nut	44.05	AS2211.03	Lock nut	S76.03	AS2276.03	Start capacitor
14.14	AS2214.14	Washer	45	MISC - S45.00	Pressure spacer	S76.04	AS2276.04	Run capacitor
14.15	AS2214.15	Retaining screw	46	AS2246.00F	Right feather hand grip metal	S76.05	AS2276.05	Off/On breaker switch (5 hp)
14.16	AS2214.16	Washer	46.01	AS2246.01	Hand grip spacer	S76.06	AS0916206	Rotor bearings front
15	AS2215.00	Tension roller shaft	46.02	MISC - S46.02	Washer	S76.07	AS0916203	Rotor bearings rear
15.01	AS2215.01	Adjustment plate	46.03	AS2246.03	Spacer for screw	S76.09	AS2276.09COM	Mushroom head E-stop (complete)
15.02	AS2215.02	Lock nut	46.04	AS2246.04	Retaining screws	S76.09A	AS2276.09A	Quick disconnect E-stop
15.03	AS2215.03	Washer	46.05	AS2246.05	Washers	S76.09BF	AS2276.09BF	Mushroom head E-stop brkt (female)
15.04	AS2215.04	External roller	46.06	AS2239.02	Locking screw	S76.09BM	AS2276.09BM	Mushroom head E-stop brkt (male)
15.05	AS0916202	Ball bearings (extra roller)	46.07	AS2246.05	Washers	S76.09C	AS2276.09C	Strain reliever conn. 1/2"
15.06	AS2215.06	Retaining screws	46.08	AS2246.08	Washer (right hand grip)	S76.09D	AS2276.09D	Sealing locknut 1/2"
15.07	AS2215.07	Inner roller	46.09	MISC - S46.09	Mounting screw	S76.09F	AS2276.09F	Female quick disconnect
15.08	AS0916005	Ball bearings (inner roller)	47	AS2247.00	Left hand grip metal	S76.09G	AS2276.09G	Stop button w/contact block
15.09	AS0912205	Swivel bearing	48	AS2248.00	Rubber grip	S76.09H	AS2276.09H	Stop box
15.10	AS2215.10	Packing ring (inner)	48.01	AS2248.00	Rubber grip	S76.09I	AS2276.09I	Name plate
15.11	AS2215.11	Travel roller	49	AS2249.00	Height regulating lever		AS2276.10.699	Stop/Start button
15.12	AS2215.12	Locking rings	50	AS2250.00	Plastic knob		AS2276.10900T	Boot for Stop/Start button
15.13	AS2215.13	Adjustment ring	50.06	AS2257.58	Castor wheel fork complete		AS2276.11.12	Stop/Start contact block
15.14	AS2215.14	Locking rings	51	AS2251.00	Castor wheel fork	S76.13	AS2276.13	Contact
15.15	AS2215.15	Locking rings	51.01	AS2251.01	Locking rings	S76.14	AS2276.15	Thermal overload switch
15.16	AS2215.16	Washers	52	AS0916202	Inner ball bearing	S76.16	AS2276.16	Sinpac switch 5 hp motor (3450 rpm)
15.17	AS2215.17	Packing ring (outer)	53	AS0916003	Outer ball bearing	Asansimvlt.5	AS2200097	Sinpac switch 5 hp motor (1740 rpm)
15.18	AS2215.18	Locking ring	55	AS2255.00	Castoring shaft	82	AS2282.00	Knurled nut
15.19	AS2215.19	Compensating washer	55.01	AS2255.01	Locking nut	ST97	AS2397.00	Motor Pulley (SUPER 10)
15.20	AS2215.20	Steel spring washer	56	AS2256.00	Lock nut	98	AS2298.00	Belt guard
15.21	AS2215.21	Tension roller complete (SUPER 8)	56.01	AS2256.01	Washer	98.01	MISC - S98.01	Mounting screw
ST15.21	AS2315.21	Tension Roller (SUPER 10)	57	AS2257.00	Castor wheel ale		AS22102.	Tool kit complete
16	AS2216.00	Sanding drum shaft (SUPER 8)	57.03	AS2257.03	Retaining screw	ST150	AS23150.00	T hex wrench for tension adj.
ST16	AS2316.00	Sanding drum shaft (SUPER 10)	57.04	AS2257.04	Locking ring	ST150.03	AS23150.03	Motor mount tension bolt (16 mm)
16.01	AS2216.01	Drum woodruff key	58	AS2258.00	Castor wheel felloe	1470	AS0001470	50 ft. cable
16.02	AS2216.02	Pulley woodruff key	58.01	AS0916202	Ball bearings	1471	AS0001471	100 ft. cable
17	AS2217.00	Drum retaining nut	58.02	AS2258.02	Tire	1608	AS0001608	Baffle Bag (SUPER 8)
18	AS0916205	Drive slide drum bearing	58.03	AS2258.03	Felloe cover	1609	AS0001609	Baffle Bag (SUPER 10)
20	MISC - S20.00	Locking ring	58.04	AS2258.04	Retaining screws	1622	AS2275.20.3	Male twist lock plug
21	AS0914932	Roller bearing	58.05	AS2258.05	Spring tooth lock washer	1623	AS2275.21.3	Female twist lock plug
21.01	MISC - S21.01	Locking ring	59	AS2258.00	Running wheel felloes			

Chattermarks

Chattermarks left by wood floor sanding machines are a common and frequent problem everywhere in the world. A chattermark is a term commonly applied to a repeating, closely spaced drum mark left from the sanding procedure. (This should not be confused with a wave pattern, or widely spaced repeating pattern usually caused by a wheel problem.)

Chattermarks are not only a problem in the wood floor industry. This unsightly phenomenon occurs throughout woodworking industries such as sheet goods and furniture manufacturing. And most of the causes are the same whether they occur on an assembly line or a living room floor.

This discussion will focus on professional wood floor belt sanding machines, which are designed to greatly minimize chattermarks often associated with slotted drum machines. With this technology comes the responsibility to maintain the equipment. When not properly maintained, malfunctions may occur. These malfunctions may result in chattermarks and are commonly generated from one or more of the following areas:

- a. Malfunctioning, maladjusted or worn sander parts.
- b. Intermittent power deficiencies
- c. An incompatible combination of drum pressure, abrasive grit and walking speed. (Walking speed being the one human factor we cannot ignore).

(a) Worn or damaged moving parts such as the sanding drum, travel roller, bearings, fan blades and drive belts often create vibrations that lead to chattermarks. Very often the machine user cannot detect these vibrations while sanding a floor. The parts must be measured for wear and inspected up close for damage. Worn or maladjusted drive belts are a major cause of excess vibration.

When belt sanders are set by the user to sand more aggressively on one side, the drum and travel roller wear to a cone shape.

Eventually this causes the abrasive belt to fit unevenly and flutter on the smaller end of the drum. This causes a distinctive chatter. When this occurs, the drum must be trued or replaced and the travel roller must be replaced if worn more than just a few thousandths of an inch. Truing or replacing only one part will solve only half the problem.

(b) Insufficient voltage can starve the sander's motor. Low voltage can cause intermittent loss of power or pulsating that the user cannot feel. This pulsating will cause micro-pauses that show up in the sanding result as a pattern, sometimes looking like chatter or even a wave depending upon the distance between pauses. Taking the power supply for granted is often a losing proposition.

(c) The drum pressure adjustment could be the most misused or unused part of the sander. In all facets of wood sanding—wood floor work included—the drum or roller pressure, abrasive grit and walking speed of the operator all work together. They need to be in harmony to create a smoothly abraded surface.

The finer the abrasive grit, the more the abrasive belt tends to "grab" the surface. Heavier grits tend to chip or scrape the surface. Therefore, when too heavy a drum pressure is applied to a fine grit and the walking speed is too slow, the drum is likely to "bounce" trying to jump ahead to compensate for the incompatibility. A combination of reducing the pressure and/or moving the machine a little faster over the surface should take care of the problem.

NOTE: The above comments address only variations in the operation and function of sanding machines. There are aspects of the floor structure itself that can cause vibrations or movement that may result in chatter or wave patterns. Old, loose floors are often difficult to sand and cause many little sanding inconsistencies. When approaching any sanding task, all of these variables must be considered.

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