

READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your ALTO 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 this machine before using it. If operator(s) cannot read this manual, have it explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

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

For new books write to: ALTO U.S. INC., 2100 Highway 265, Springdale, Arkansas 72764.

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OPERATOR SAFETY INSTRUCTIONS

DANGER means:	Severe bodily injury or death can occur DANGER statements found on this madignored or are not adhered to. Read an found in this Owner's Manual and on yo	chine or in this Owner's Manual are nd observe all DANGER statements
WARNING means:	Injury can occur to you or to other perso found on your machine or in this Owner adhered to. Read and observe all WAR Manual and on your machine.	
CAUTION means:	Damage can occur to the machine or to ments found on your machine or in this adhered to. Read and observe all CAU Manual and on your machine.	Owner's Manual are ignored or are not

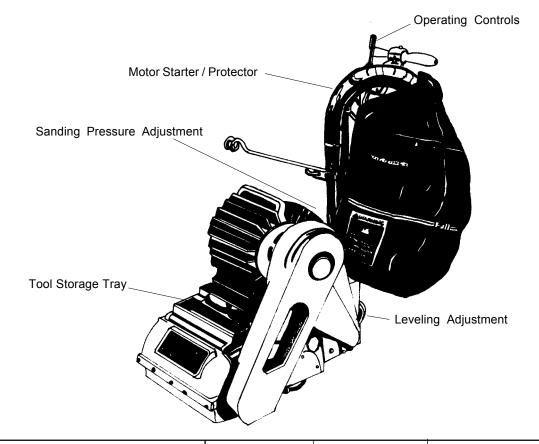
A DANGER: Failure to read the Owner's Manual prior to operating or attempting any service or maintenance procedure to your American Sanders Technology machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.

DANGER: 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 source 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 used to determine combustibility. Keep the work area well ventilated.
- Spontaneous combustion or an explosion can occur when working with sanding dust. The sanding dust can ignite and cause injury or damage. Sanding dust should be disposed of properly. Always empty the sanding dust into a metal container that is located outside of any building(s).
- 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 the 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.
- **DANGER:** Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled. Keep all fasteners tight. Keep adjustments according to machine specifications.

DANGER:	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, circuit breaker or power supply.
DANGER:	Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the power supply before attempting any maintenance or service.
DANGER:	Electrocution could occur if machine is used on ungrounded 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.
DANGER:	Use of this machine with a damaged power cord could result in an electrical shock. Do not use the machine if the power cord is damaged. Do not use the electrical cord to move the machine.
DANGER:	Electrocution or injury could occur if the power cord is run over or damaged by the sander. Keep the cord free from under the machine to avoid contact with the sandpaper. Always lift the power cord over the machine.
DANGER:	Moving parts of this machine can cause serious injury and/or damage. Keep hands, feet and loose clothing away from all moving parts of the sander.
DANGER:	Operating a sander without all guards, doors or covers in place can cause an injury or damage. Always check to make sure that all of the guards, doors and covers are secure and in place.
DANGER:	Injury to the operator or bystanders could occur if the power supply remains connected when servicing the equipment, changing the abrasive, or emptying the dust bag.
WARNING:	Failure to read and observe all safety statements found on your machine or in this Owner's Manual can result in serious injury or damage. Read and observe all safety statements. Make sure that all labels, decals, warnings, cautions, and instructions are fastened to the machine. Get new labels from your authorized American Sanders Technology distributor.
WARNING :	Sanding dust can be airborne and can be breathed in while operating a sander. Always wear a dust mask 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, and a dust mask while performing any sanding operation.
	Bodily injury could occur if power is applied to the machine with the power switch already in the "ON" position. Always check to assure that the power switch is in the "OFF" position before applying power to the power cable.
	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 American Sanders Technology distributor.
	Use of this machine to move other objects or to climb on could result in injury or damage. Do not use this machine as a step or furniture. Do not ride on this machine.
CAUTION:	Damage could occur to the machine if not properly kept in a dry building for storage. Store the machine in a dry building.
CAUTION:	The machine is heavy. When transporting the machine, remove the motor. Get help to lift the machine and motor.
	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. To avoid damage to the floor, feather cut in at a normal sanding rate. Do not dwell while lowering or raising the contact wheel. Always sand at a constant rate.

Introduction and Machine Specifications



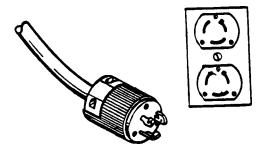
PARTNUMBER	07044C	07108A	07049C	07109A
Abrasive Size	12 x 26 ¹ /8 (30.5cmx67.3cm) paperback			
Contact Wheel Speed		2000/2400 rpm (re	evolutions per min.)	
Abrasive Speed		3796/4555 sfm (su	Irface feet per min.))
Dust Fan Speed		5000 rpm (revolu	itions per minute)	
Dust Fan Flow		280 cfm (cubic	feet per minute)	
Motor	60 Hz 230V 4hp (3 kW) 50 Hz 240V 3hp (2.2 kW)			
Leveling Control	Éxternally Adjustable			
Operating Control	Adjustable Lever			
Motor Starter/Protector	Magnetic Circuit Breaker			
Sanding Pressure Adjustment	Infinitely Adjustable			
Wheels (Front)	Steel	Urethane	Steel	Urethane
Wheel (Adjustment)	Steel	Canvas	Steel	Canvas
Drive	V-Belt			
Dimensions	40 ¹ / ₂ x 15 x 36 ³ / ₄ (102.9cm x 38.1cm x 93.3cm)			
Weight	240 lbs. (98 kg)			

Your equipment may be inappropriate on some installations. Some softer woods used in flooring cannot support the pressure created by hard wheels. A felt or rubber wheel should be used when these woods are encountered. See parts list for optional wheels.

Always consult with the flooring manufacturer on the proper installation, preparation, and finishing of their product. Determine suitability of your equipment in preparing the product.

230V Electrical Connection Instructions

CAUTION: This machine will operate only on AC frequency and on electrical voltage shown on the motor nameplate. Make sure you have the correct frequency and voltage before connecting the power cord to an outlet. The machine has a plug as shown below.



This machine must be connected to an electrically ground circuit in order to protect the operator from electric shock. This machine has an approved power cord with three conductors as well as a plug with three terminals. Connect the plug into a three holed receptacle. For maximum protection against electric shock, use a circuit that is protected by a ground fault circuit interrupter.

- **A** DANGER: Electrocution could occur if the machine is exposed to water or rain. Keep the machine in a dry building.
- **DANGER:** Electrocution could occur if machine is improperly connected to the electrical system. To prevent possible electric shock, always use a 3-wire electrical system connected to an electrical ground. For maximum protection against electrical shock, use a circuit that is protected by a ground fault circuit interrupter. Consult your electrical contractor.
- **DANGER:** Electrocution could occur if the ground pin is tampered with in any way. Do not cut, remove, or break the ground pin. Do not try to fit a three-terminal plug into a receptacle or connector body other than a three plug receptacle or connector body. If the outlet does not fit the plug, consult your electrical contractor.
- **DANGER:** Electrocution could occur if the machine is used with a damaged plug or power cord. If the cords or plugs are worn or damaged in any way, have them replaced by an authorized service person or electrician.

Extension Cords

Use only an approved three-pronged extension cord with two main conductors and one earthing conductor. This machine's power cord has a wire size of 10 gauge. This machine is equipped with a 100' power cord. When greater range is needed follow the table below to determine cable guage of additional footage. Refer to the following chart for extension cord information.

Source Voltage	0 - 100'	100 - 250'
208	6	Use Voltage Booster
230	10	8

If motor appears to labor or takes a considerable longer time to come up to speed reduce sanding pressure.

How to Transport the Machine

WARNING: The machine is heavy. Remove the motor from the machine before transporting. Get help loading the machine and motor.

To transport the machine, follow this procedure:

- 1. Make sure the power cable is disconnected from the electrical outlet.
- 2. Disconnect the handle plug connection. See figure 1.
- 3. Remove the belt cover.
- 4. Remove the fan belt.
- 5. Loosen the motor bolt. Using the ³/₄" wrench, turn the motor bolt counterclockwise. See figure 2.
- 6. Slide the motor forward.
- 7. Remove the drive belt.
- 8. Remove the motor from the chassis.

To re-assemble the machine after transporting, follow this procedure:

- 1. Reposition motor on chassis.
- 2. Install the drum belt. Slide the motor back until adequate tension is achieved in belt.

CAUTION: To prevent damage to the floor surface, make sure the drive belt is tight.

- 3. Resecure the motor to the chassis.
- 4. Install the fan belt.
- 5. Install the belt cover.
- 6. Reconnect the handle plug.

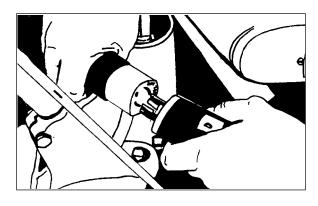


Figure 1

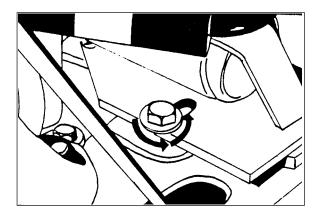


Figure 2

Machine Set-Up

To set-up your machine follow this procedure:

- 1. Familiarize yourself with the machine and read all danger, warning and caution statements. Make sure all operators of this machine 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. Clip the dust bag to the elbow. Cross the strings on the dust bag and draw tight over the flare on the elbow. Wrap the string around the elbow and secure.
- 4. Wind the power cord through the cable arm. Keep the power cord out of path of equipment.

How To Install The Abrasive

WARNING: Disconnect power before changing abrasive.

To install the abrasive, follow this procedure:

- 1. Prepare abrasive with template supplied.
- 2. Place backing of abrasive on the template. The template is marked "This Side Up." Make sure the marked side of the template is facing up.
- 3. Cut the abrasive to the exact lenght of the template.
- 4. Align one edge of the abrasive with a notch in the template.
- 5. Fold the other end of the abrasive over the end of the template and crease.
- 6. Repeat steps 4 and 5 for remaining notch.
- 7. Lift the drum cover.

- 8. Put the smooth side of the abrasive against the sanding drum.
- 9. Put one end of the abrasive against the sanding drum slot (1). See figure 3.
- Turn the drum one revolution. Put the other end of the abrasive in the drum slot (2). See figure 3.
- 11. Tighten the abrasive.

To tighten the abrasive, follow this procedure:

- 1. The end wrenches are given with the machine. Put a wrench around the nut at each end of the durm (1). See figure 4.
- 2. Make sure the flat sides of the nuts are parallel with the drum slot.
- 3. Turn the wrenches the opposite rotation until the abrasive is tight against the drum (2). See figure 4.
- 12. Remove the end wrenches.
- 13. Close the cover.
- **NOTE**: When using #4 or 4½ grit abrasive, remove the large grains from the folded ends. To remove the grains, rub the folded ends together.

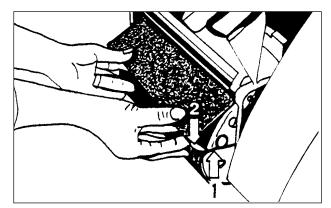


Figure 3

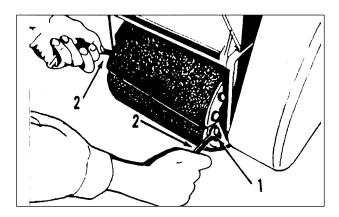


Figure 4

How to Operate the Machine

A DANGER: Sanding/finishing wood floors can create an environment that can be explosive. Cigarette lighters, pilot lights and any other source 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.

DANGER:

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 ignite. Read the manufacturer's label on all chemicals used to determine combustibil-Keep the work area well ity. ventilated.

DANGER: Sanding dust can spontaneously ignite and cause an injury or damage. Sanding dust should be disposed of properly. Always empty the sanding dust into a metal container. Remove the contents of the dust bag when the bag is 1/3 full.

DANGER:

Sanding dust can spontaneously ignite and cause an injury or damage. Remove the contents of the dust bag each time you finish using the machine. Always dispose of the dust in a metal container located outside of the building. Never leave a dust bag unattended with sanding dust in it. Do not empty the contents of the dust bag into a fire.

A DANGER: 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. To operate the machine follow this procedure:

- 1. Install the operator's belt as follows:
 - a. Position the operator's belt around waist.
 - b. Cross the straps at the waist. See figure 5.
 - c. Slide the belt loop end over the handle on the control lever side. Adjust the length as needed.
 - d. Wrap the remaining strap around the opposite side of the handle and hold it in place with your hand.
- WARNING: Should quick release of the machine be necessary, serious operator injury could occur if the operator has tied the loose end of the operator's belt strap to the machine. Always position the strap so that you can let go and get away quick in case of bag fire or explosion.
- 2. Put the On/Off switch into the "ON" position.
- ANGER: Serious damage can occur to the floor surface if the machine is not in motion while the contact wheel is running on the floor surface. To prevent damage to the surface, make sure the machine is always moving when the contact wheel is in contact with the floor.
- 3. Work right to left. For each forward pass, move the machine 4" over the pass you have just finished. Retrace your reverse path without overlapping. See figure 6.
- 4. Feather-cut in by easing the contact wheel down onto the surface with the control lever while the sander is in motion.
- 5. When contact wheel is fully engaged with the surface, gradually adjust your pace for adequate finish removal. Keep sander in motion while the contact wheel is engaged with the surface or dwell marks will occur.
- 6. Move the machine in the direction of the grain in the wood whenever it is possible. Sand the surface at a constant pace.
- 7. Gradually feather-cut out at the termination point (the end of your pass) by easing the contact wheel up with the control lever. Stagger the termination points for a better blend when edging.

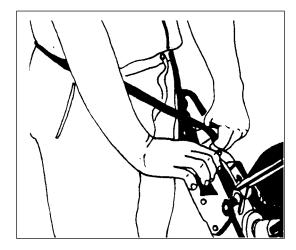


Figure 5

 Empty dust bag whenever it is 1/3 full. Never leave a dust bag unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion. Empty dust into a metal container located outside of the building.

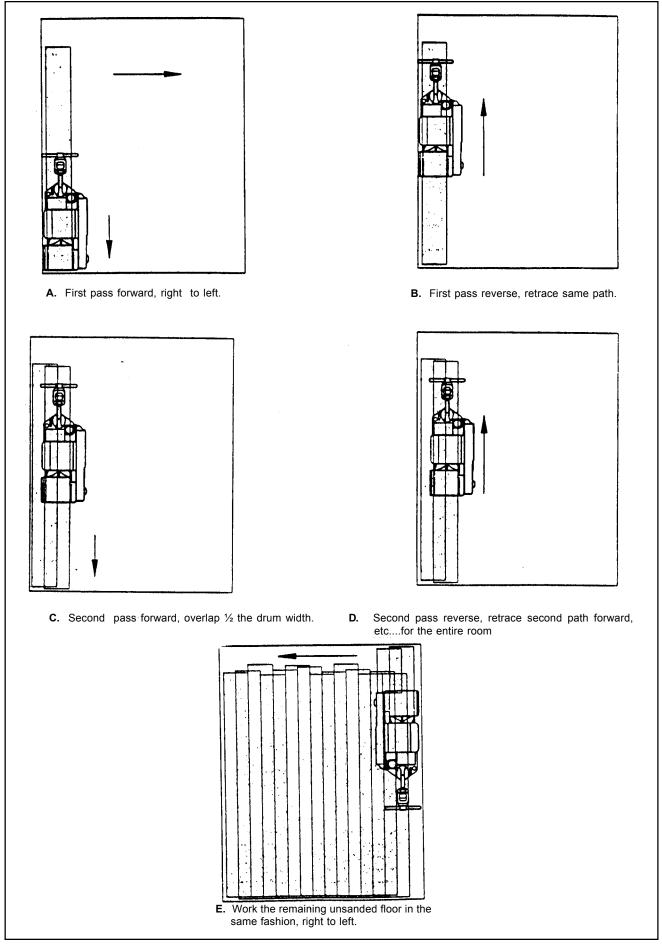


Figure 6

AMERICAN SANDERS TECHNOLOGY - American 12 Floor Sander Owner's Manual Download from Www.Somanuals.com. All Manuals Search And Download.

Sanding Cuts and Sandpaper

Initial Cut

The purpose of the initial cut is to remove old finish and gross imperfections on the floor surface. The sanding equipment should be adjusted to heavy sanding pressure setting and a coarse abrasive should be used. If the surface is severely damaged by deep scratches, pre-existing dwell marks, uneven planks, etc., it may be necessary to sand across or diagonally to the grain to restore evenness to the surface. If these conditions are not present, the initial cut should be done in the direction of the grain.

If glazing, loading, or burning takes place immediately into an initial cut, select a coarser abrasive. If this should occur during an initial cut, the abrasive has dulled and must be replaced.

Final Cuts

The purpose of a finishing cut is to remove the scratches produced during the initial cut. Use a fine (60 - 80 grit) grain abrasive and a reduced sanding pressure setting.

If the surface remains rough after a finishing cut, it may be necessary to use an even finer grain of abrasive (80 - 100 grit). Care should be taken in selecting the grit size of the abrasive. A very fine grain will close the pores on a wood floor making admission of a stain difficult.

If glazing or burning should occur immediately into a finishing cut, reduce the sanding pressure. If it should occur during a finishing cut, the abrasive has dulled and must be replaced.

Abrasive Bulk Roll Note: All part numbers listed are for 12" x 50' (30.5 cm x 18m)			
Grain	Use	Part No.	
12 grit 16 grit 20 grit 24 grit	For removing gross imperfections and restore evenness to old flooring. To remove build-up of paints and varnishes.	945516 945517 945518 945519	
30 grit 36 grit	For first sanding of new flooring (maple, oak). For removing minor imperfections and finishes from old flooring.	945520 945521	
40 grit	For first sanding of new flooring (oak, walnut). For removing minor imperfections and finishes from old flooring.	945522	
50 grit	For first sanding of new flooring (cedar, pine, fir) For clean-up of 16 grit.	945533	
60 grit	For clean-up from initial cut 36 - 40 grit.	945544	
80 grit	For final sanding of certain hardwoods. For clean-up of initial cuts (50 grit).	945545	
100 grit	For final sanding of certain hardwoods where a smooth surface is desired.	945546	
120 grit	For final sanding of certain conifers.	945547	
150 grit	For final sanding of certain conifers where a smooth surface is desired.	945548	
180 grit	For surface roughing between coats of finish.	945549	

Sander Adjustment Procedures

DANGER:

Electrocution could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the power supply before attempting any maintenance or service.



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

Sanding Pressure

To adjust the sanding pressure follow this procedure:

- 1. Screw the sanding pressure knob down to increase the sanding pressure when making the roughing in cut.
- 2. Screw the sanding pressure knob up to decrease the sanding pressure when making the finishing cut.

Drum Rates

The machine can be operated at two rates. To change the speed of the drum, follow this procedure:

- 1. Remove the belt cover.
- 2. Remove the fan belt.
- 3. Loosen the motor bolt.
- 4. Slide the motor forward.
- 5. For high drum rates, install drive belt in larger diameter of the grooves available on the motor pulley and in the smaller diameter of the two grooves available on the drum pulley. For lower rates, install drive belt in smaller diameter of the grooves available on the motor pulley and in the larger diameter of the two grooves available on the drum pulley.
- 6. Tighten belt and secure motor to chassis.
- 7. Install the fan belt.
- 8. Install the belt guard.

Leveling

If the sanding drum is out of adjustment, follow this procedure:

- 1. Remove the belt cover.
- 2. Loosen the eccentric lock screw. Using the 7/16" wrench, turn the eccentric lock screw (1) counterclockwise. See figure 7.
- 3. To raise or lower the drum, turn the eccentric (2). See figure 7.
- 4. Tighten the eccentric lock screw. To tighten the eccentric lock screw, turn the screw clockwise.
- 5. Install the belt cover.

How to Lubricate the Wheel Pivots

NOTE: The wheel pivots must be lubricated after every 25 hours of use.

To lubricate the wheel pivots, follow this procedure:

- 1. Put the machine on its side.
- 2. Lubricate the pivots. The pivots are behind the truck wheels. See figure 8.
- 3. Put the machine on its wheels.

Operating Control

To **increase** the travel or extend the reach on the grip control follow this procedure:

- 1. Loosen the locknut on the control rod. See figure 9.
- 2. Screw the control rod adjuster **in** until the desired reach is found.
- 3. Tighten the locknut.

To **decrease** the travel or reduce the reach on the grip control follow this procedure:

- 1. Loosen the locknut on the control rod. See figure 9.
- 2. Screw the control rod adjuster **out** until desired reach is found.

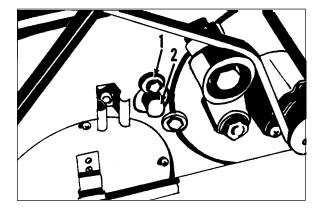


Figure 7

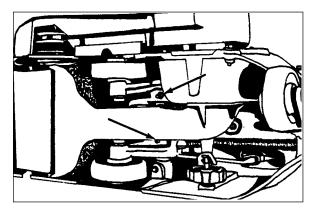


Figure 8

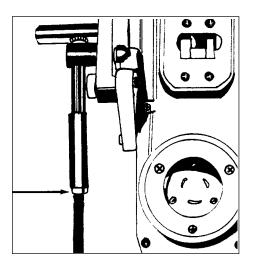


Figure 9

3. Tighten the locknut.

Routine Maintenance

The following items need to be periodically inspected and maintained to keep your sander in good working condition.

Wheels

Periodically remove the debris from the truck and caster wheels. Debris can cause waves on a sanded surface. Lubricate truck mechanism every 25 hours of use. The machine is equipped with lubrication fittings and are located on shaft supporting mechanism.

Dust Bag

Remove the dust bag from the machine and shake it thoroughly to remove the sanding dust from the dust bag. Turn the dust bag inside out and machine wash in cold water to prevent pore blockage and loss of dust recovery.

Drive Belt

Periodically check the drive belt tension.

Bearings

Periodically check the bearings for wear or damage according to the following schedule:

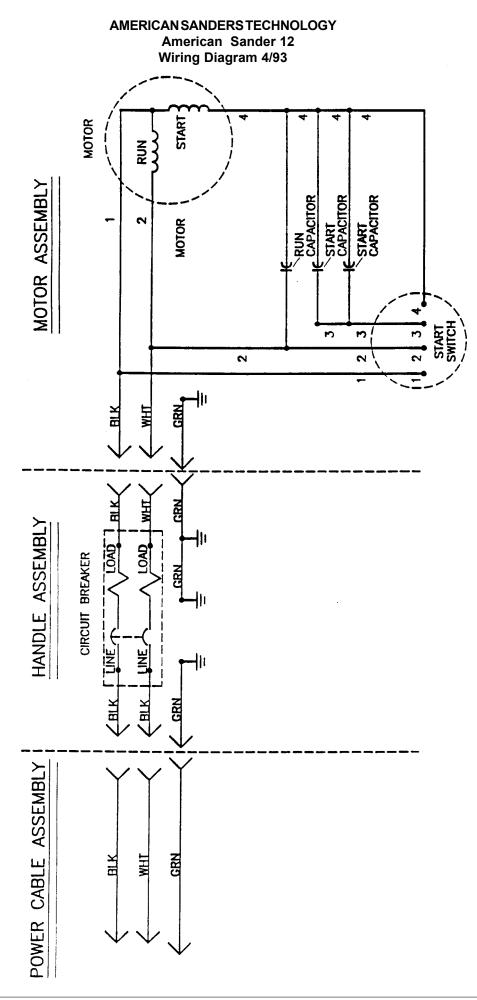
Idlerpulley	after 1st 1500 hrs.
Fan shaft	after 1st 2500 hrs.
Arbor shaft	after 1st 5000 hrs.
Motor shaft	after 1st 5000 hrs.

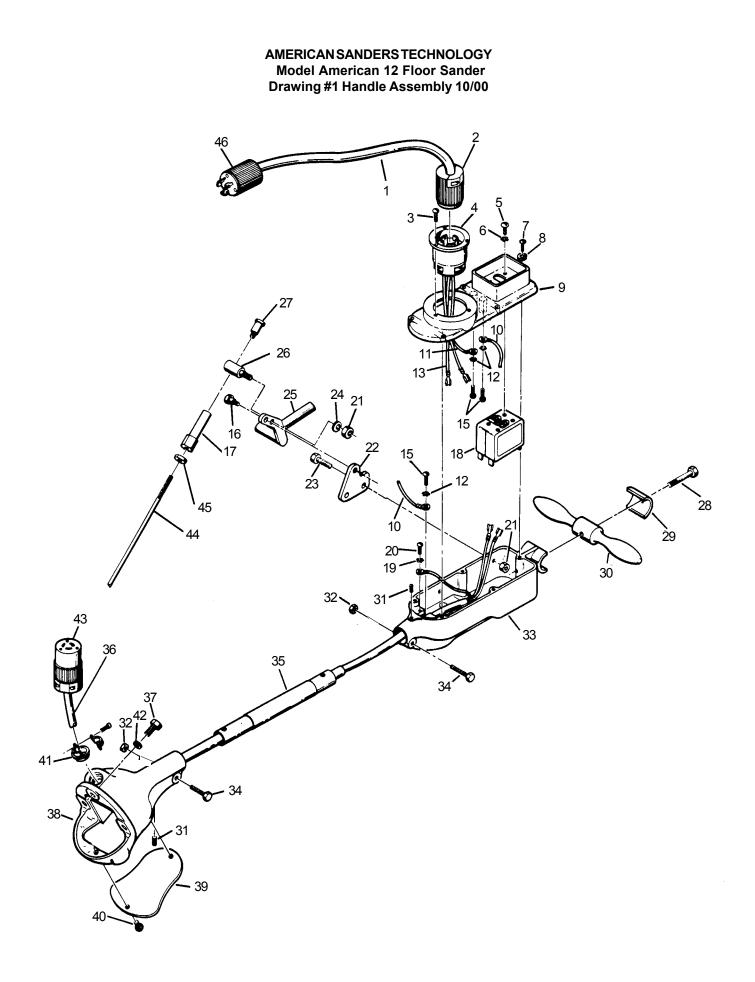
Troubleshooting

PROBLEM	CAUSE	ACTION
Drive belts slip.	Insufficient tension. Worn belts.	Tension drive belt. (Squeaking or squealing sound) Replace belts.
Squealing, growling or grinding noise coming from machine.	Damaged and/or worn bearing.	Remove drive belts, rotate arbor motor, fan, shafts and idler pulley to locate dragging or rough bearing. Contact an authorized American Sanders Technology dealer.
Dust pick-up is poor.	Dust bag is over 1/3 full. Dust bag is dirty. Dust chute is obstructed.	Empty contents of bag. Shake debris from bag and wash. Remove fan cover and clear throat.
Motor will not start.	Defective motor starter. Defective start capacitor. Defective electronic start switch. Low voltage from poor connection. Defective motor. No power.	Contact an authorized American Sanders Technology dealer. Contact an authorized American Sanders Technology dealer. Check power supply and connections.
Motor runs sluggishly.	Low voltage from excessive footage, undersized extension cord, or poor connection. Defective run capacitor. Defective motor.	Locate power source nearer to work site. Decrease sanding pressure. Contact an authorized American Sanders Technology dealer. Contact an authorized American Sanders Technology dealer.
Motor starter trips/repeatedly trips.	Excessive load. Defective electronic start switch. Defective motor starter. Low voltage from poor connection. Defective motor Defective capacitor.	Contact an authorized American Sanders Technology dealer. Contact an authorized American Sanders Technology dealer.
Uneven cut.	Leveling out of adjustment.	Readjust leveling.
Burning or glazing.	Dull abrasive. Excessive sanding pressure. Too fine of an abrasive.	Replace abrasive. Decrease sanding pressure setting. Use coarser abrasive.
Slow cutting.	Dull abrasive. Too fine of an abrasive. Insufficient sanding pressure.	Replace abrasive. Use a coarser abrasive. Increase sanding pressure setting.
Waves on sanded surface.	Debris on wheel. Flat spot on tire(s).	Remove and clean wheels. Replace tires.
Chatter marks on sanded Surface (close evenly spaced)	Drum out of round. Drum vibration.	Contact an authorized American Sanders Technology dealer or replace the drum. Change shim combination. Remove debris from surface or ends of drum.

NOTE

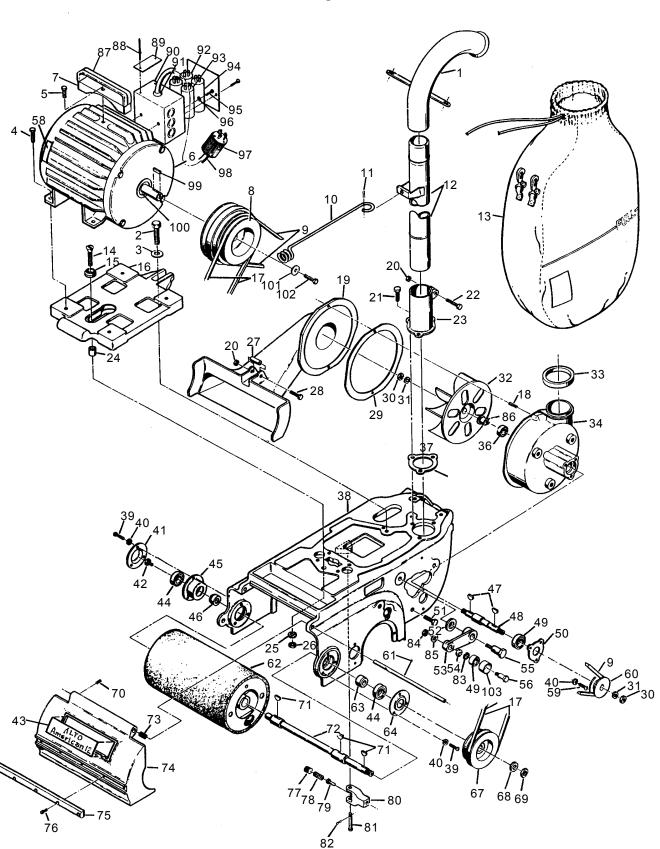
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AMERICAN SANDERS TECHNOLOGY Model American 12 Floor Sander Parts List #1 Handle Asembly 10/00

Ref No.	Part No	Description	Qty
1	Ref.	Cord Assembly	1
2	41706A	Connector (NEMA)	1
2		Screw - 8-32 x ¼ Pn St Mach	3
3 4	962065 43501A	Inlet - 20A, 250V	3
4 5			4
5 6	85313C 980607	Screw - 6-32 x ¹ / ₄ Pn St Mach Washer - #1106 Shakeproof	4
0 7	960607 962794	Screw - 10-24 x 1 Pn St	5
8	962794 980650	Washer - 3/16 Lock	ວ 5
o 9	22127C	Cover - Switch Box	5
9 10	48901A		1
10	48900A	Wire Ass'y - Green Wire Assembly - Ground	1
12	48900A 980699		3
12	980699 49023A	Washer - #1210 Shakeproof	2
15	49023A 962015	Wire Assembly Black	3
15	962015 80022A	Screw - 10-24 x ³ / ₈	1
16	67129A	Bolt ½ x 5/8 Adjuster Control Rod	1
17	67129A 41411A	Switch - Circuit Breaker	1
18	980603	Washer #8 Shakeproof	1
19 20	960603 85833A	Screw, #10-32 Ground	1
20	920284	Nut ¼-20	2
21	920284 66694A	Plate Control Lever	1
22	962481	Screw ¼-20 x 1¼	2
23	980646	Washer $\frac{1}{4}$	1
24 25	25602A	Lever Control	
26	25002A 66151A	Pivot Control Rod	
20	80021A	Bolt ³ / ₈ x ⁵ / ₈	1
28	85818A	Screw ⁵ /16-18 x 2 ¹ / ₄ Hex St	
20	21904C	Clamp - Handle	1
30	21904C 64405A	Handle - Steering	
31	86200A	Screw - 3/8-16 Set St	2
32	920110	Nut ⁵ /16-18 ESNA	2
33	20704C	Box - Switch	1
34	85816A	Screw ⁵ / ₁₆ -18 x ³ ⁄ ₄ Hex St Flt Hd	2
35	66114C	Pipe - Handle	1
36	41917A	Cord - Interconnecting	
37	962288	Screw ³ / ₈ -16 x 1" Hex St Cap	3
38	21102C	Bracket - Handle	1
39	62609A	Cover, Handle Bracket	
40	962016	Screw 10-24 x ½ Pn St Mach	2
41	170637	Connector, Conduit	1
42	980638	Washer - ³ / ₈ Diameter Lock	3
43	41707A	Connector	1
44	67144A	Rod Control	1
45	920148	Nut ³ / ₈ -16 Jam	1
46	45608A	Plug (NEMA)	1
40	10000/1		_ ·



AMERICAN SANDERS TECHNOLOGY Model American 12 Floor Sander Drawing #2 10/00

AMERICAN SANDERS TECHNOLOGY Model American 12 Floor Sander Parts List #2 10/00

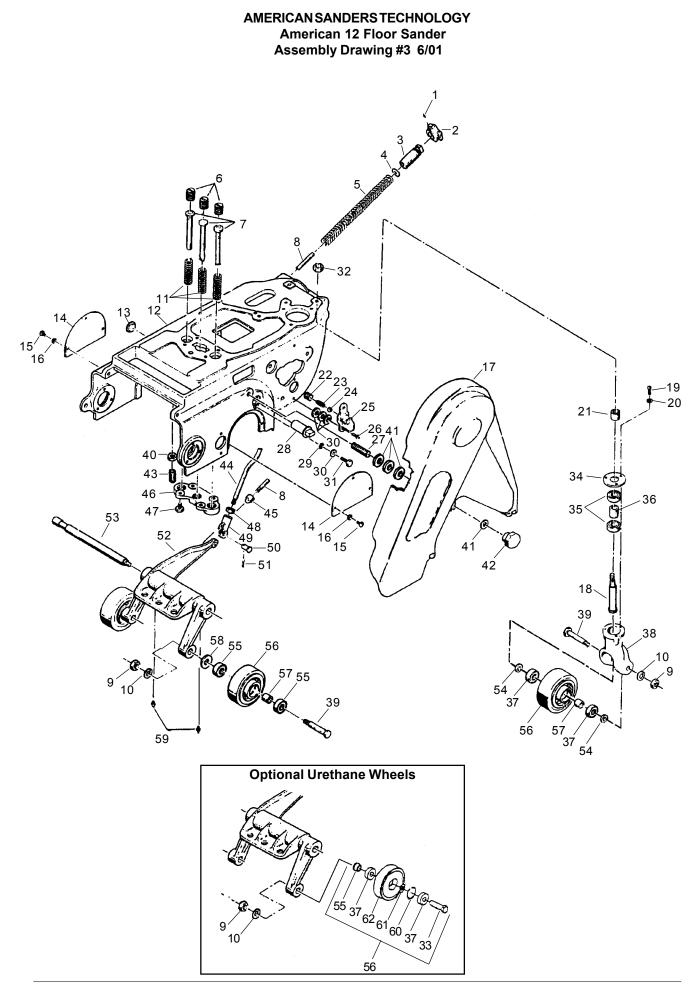
Ref #	Part No.	Description	Qty
1	62800A	Pipe, Ass'y	1
2	85714A	Screw, 1/2 - 13 x 21/4 Hex	1
3	87006A	Washer, .56 X 1.38 X .11 Flat	1
4	962216	Screw ³ / ₈ -16 x 1 ¹ / ₄ Hex	4
5	962870	Screw ³ /8-16 x 1	1
6	44639A	Motor 4 hp 230V/60	1
	44640A	Motor 3 hp 240V/50	1
7	64460A	Handle, Motor	1
8	66164A	Pulley, Motor	1
9	51028A	Belt-V	1
10	60401A	Arm, Cable	1
11	925044	Pin, 3/32 x 1 Cotter	1
12	66110A	Pipe Assembly	1
13	50954A	Dust Bag	1
14	84220A	Screw, 1/2-13 x 21/4 Ft.	1
15	68704A	Washer - Motor Screw	1
16	26108C	Platform, Motor	1
17	51021A	Belt - V	1
18	68002A	Stud	1
19	26102A	Pan, Dust	1
20	920256	Nut, ⁵ /16-18 Hex	2
21	85820A	Screw, ³ /8-16 x ⁵ /8 Hex	3
22	85816A	Screw, ⁵ / ₁₆ -18 x 1 ³ / ₄ Hex	1
23	27801C	Support, Dust Pipe	1
24	67820A	Spacer, Motor Screw	1
25	87101A	Washer, ½ Lock	1
26	920196	Nut, ½-13 Hex Jam	1
27	30501A	Bushing	
28	85817A	Screw, 5/16-18 x 2" Hex	
29	34224A	Gasket	
30	81202A	Nut, ⁷ / ₁₆ -14 Hex L.H.	2
31	87002A	Washer	2
32	23300A	Fan	1
33	39704A	Washer, Felt	
34	24504C	Housing, Fan	
36	902567	Bearing	
37	34223A	Gasket, Support Pipe	1
38	23406C	Frame	
39	962983	Screw, ¼-20 x 5/8 Pan	6
N	18601A	Shaft Ass'y Drum (1)	
'"		includes D56, D39, D71	
40	980657	Washer, ¼ Lock	9
40	62608C	Cover, Drum Housing	1
42	67314A	Screw, Special	1
43	70042A	Label, I.D. American 12	
44	51110A	Bearing	2
44	64703A	Housing, Bearing	1
45	67818A	Spacer, Drum Shaft	1
40	915028	Key - #5 Woodruff	2
48	67424A	Shaft Fan	1
40	51111A	Bearing	2
49 50	62001A	Cap, Bearing	1
	020017		'

Ref #	Part No.	Description	Qty
51	962288	Screw, ³ /8-16 x 1" Hex	2
52	67816A	Spacer	1
53	20401B	Arm	1
54	67815A	Spacer, Idler Bearing	1
55	68101A	Stud	1
56	67413A	Shaft	1
57*	38109A	Seal, Dust Pipe	1
58	77234A	Label, Lifting Warning	1
59	962823	Screw, 1/4-20 x 1/2 Pan	3
60	66172A	Pulley, Fan Shaft	1
61	67417A	Shaft, Drum Cover	1
62	13500A	Drum Assembly	1
63	67819A	Spacer, Drum Shaft	1
64	66918A	Retainer, Bearing	1
65			
66			
67	66165A	Pulley, Drum	1
68	980644	Washer, 5/8 Plain	1
69	920280	Nut, 5/8-18 Hex Jam	1
70	962262	Screw, 8-32 x ¼ Set	1
71	55400A	Key - #9 Woodruff	3
72	67415A	Shaft, Drum	1
73	67911A	Spring	1
74	22111A	Cover, Drum	1
75	31211A	Bumper Assembly	1
76	85517A	Screw, 10-24 x 1/2 PN	5
77	86202A	Screw, Set 5/8-11	1
78	67908A	Spring	1
79	66115A	Plunger	1
80	29402A	Yoke	1
81	66505A	Pin, Yoke	1
82	925036	Pin, 3/32 x 3/4 Cotter	1
83	877304	Ring Retaining	1
84	920148	Nut, ³ /8-16 Hex Jam	1
85	87000A	Washer	1
86	61602A	Collar	1
87	32357A	Cover Handle	1
88	930087	Rivet	2
89	74044A	Plate Safety	1
90	62904A	Enclosure Motor	1
91	697502	Strain Relief Bushing	1
92	41305A	Capacitor, Start	2
93	41304A	Capacitor, Run	1
94	47378A	Switch, Start	1
95	962823	Screw, 1/4-20 X 1/2	2
96	980614	Washer	2
97	45604A	Plug	1
98	41945A	Cord, Motor	1
99	915098	Key, ¼ Sq. x 1¼	1
100	57712A	Ring, Retaining	1
101	87034A	Retainer Pulley	1
102	962288	Screw, ³ / ₈ -16 x 1	1
103	66173A	Pulley Idler	1

*NOTE: #57 Not Illustrated

Motor Parts Not Illustrated

Part #	Description	Qty.	Part #	Description	Qty.
50563A	End Bell	1	51188A	Bearing Front	1
52768A	Front Cover	1	902547	Bearing Rear	1
53998A	Fan	1	40316A	Armature Assembly	1
52769A	Fan Cover	1		······································	



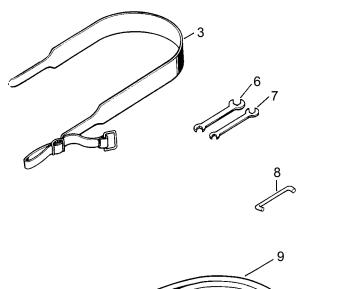
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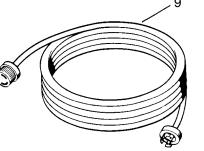
AMERICAN SANDERS TECHNOLOGY American 12 Floor Sander Assembly Parts List #3 6/01

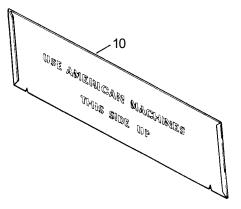
			070048C	
Ref. No	Part No.	Description	Qty	Qty
1	88502A	Screw, 10-24 x ³ / ₈ Set	2	2
2	25200C	Knob, Hand	1	1
3	67309A	Screw, Sustainer	1	1
4	87000A	Washer	1	1
5	67907A	Spring, Sustainer	1	1
6	67315A	Screw	3	3
7	66123A	Plunger, Spring	3	3
8	67109A	Rod, Pilot	1	1
9	920196	Nut, 1/2-13 Hex Jam	3	3
10	87101A	Washer, ½ Lock	3	3
11	67906A	Spring	3	3
12	Ref.	Frame, Main	1	1
13	57100A	Button, Plug	1	1
14	66628C	Plate, Cover Wheel	2	2
15	962015	Screw, 10-24 x ³ / ₈ Pn St Mach	6	8
16	980650	Washer, ³ / ₁₆ Lock	6	6
17	23801A	Guard, Belt	1	1
18	60715B	Bolt, Pivot	1	1
19	962823	Screw, ¼-20 x ½ Pn St Mach	3	3
20	980657	Washer, 1/2 Lock	3	8
21	67814A	Spacer	1	1
22	86202A	Screw, ⁵ /8-11 x ⁵ /8 St	2	2
23	67909A	Spring	2	2
24	51113A	Ball, ½ Diameter	2	2
25	21902C	Clamp	2	2
26	962892	Screw, ¼-20 x 5/8 Pn St Mach	4	4
27	68001A	Stud, Belt Guard	1	1
28	62801A	Shaft, Cont. Ecc.	1	1
29	980614	Washer, #1114 Shakeproof	1	1
30 31	87007A 85806A	Washer, Cont. Shaft Ecc. Screw, ¼-20 x 1 Hex St	13	13 1
32	81209A	Nut, Large Flange ½-13		1
33 ♦	60547A	Axle	<u>-</u>	2
34	66913A	Retainer, Bearing	1	1
35	51112A	Bearing	2	2
36	67821A	Spacer	1	1
37♦	51225A	Bearing, Ball	6	6
38	29403C	Yoke, Wheel	1	-
39	60101A	Axle	3	1
40	920160	Nut, ⁵ /16-18 Hex JAM	1	1
41	87006A	Washer, ⁹ / ₁₆ x 1 ³ / ₈ x 10	ref.	ref.
42	26000C	Nut, Retaining	1	1
43	86201A	Screw, 5/16-18 Set	1	1
44	67144A	Rod, Control	1	1
45	62000A	Nut, End	1	1
46	26502A	Plate, Plunger	1	1
47	85811A	Screw, ⁵ / ₁₆ -18 x ³ / ₄ Hex St Cap	4	4
48	920260	Nut, ³ /8-16 Hex	1	1
49 50	53917B	Fork, Control	1	1
50 51	66503A 925036	Pin, Fork Pin, ³ / ₃₂ x ³ / ₄ Cotter	1	1
52	925050 25600A	Lever, Reach	1	1
53	23000A 67416A	Shaft, Lever	1	1
54	67810A	Spacer	2	2
55 ♦	60544A	Spacer	-	2
56	59928A	Wheel (Steel)	3	-
•	10243A	Kit, Wheel (Urethane) (Optional)	-	-
	59907A	Wheel (Canvas)	-	1
57	67817A	Spacer	3	3
58	87003A	Washer	2	2
59	54000A	Fitting, Grease	2	2
60♦	167312	Ring, Retainer	2	2
61�	60481A	Spacer	2	2
62♦	50992A	Wheel, Assemlby		2

NOTE:

 indicates a change has been made since the last publication of this manual. AMERICAN SANDERS TECHNOLOGY American 12 Floor Sander Accessories Drawing & Parts List #4 10/00







Ref.#	Part No.	Description	Qty
1			
2			
3	60724A	Belt, Operating	1
5			
6	59810A	Wrench, Paper Clamp	1
7	59811A	Wrench, End ³ / ₄ x ⁷ / ₁₆	1
8	64415A	Handle, Carrying	1
9	42201A	Cord Assembly (NEMA)	1
	42302A	Cordset, 240/50	1
10	68314A	Template	1

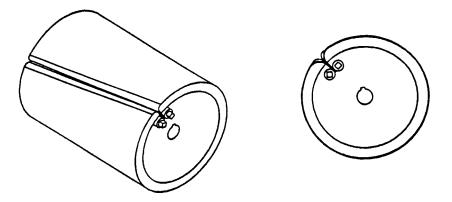
Chatter - Wave Prevention

American Sanders Technology Sanders are designed and manufactured to the most rigid tolerances. However, after a finishing cut it is possible to see "chatter" or "waves".

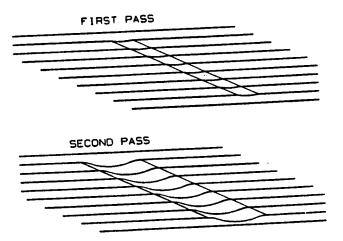
The best guarantee to remove the chatter is to finish the floor with a rotating horizontal sander, such as American Sanders Technology's Sander 16.

To minimize chatter when using a belt or drum sander the following steps should be taken:

1) DRUM PAPER...insure the paper is secured in the slot, but not too tight. Paper that is too tight will force the drum slot wider, leaving a "slot mark chatter" on the floor.



2) DRUM MARKS......are caused by the operator lowering the drum to the floor without forward traverse. These marks should be removed by cutting at a 45 degree angle to the mark. Cutting at the mark while maintaining the same path will only increase the mark depth and width.



Chatter Wave Prevention (cont)

- 3) UNEVEN WALKING PACE..... can leave lengthy "waves". The machine cuts more material during the slower pace. Pay particular attention to a steady, even pace.
- 4) EXCESSIVE LIGHT CUTS.... may reveal high spots on the paper/contact wheel and cause chatter. Take a heavier cut and increase the pace.
- 5) DEBRIS.... lodged between the paper and the drum will leave chatter. On a belt sander, debris may be adhered to the drum. Insure the drum is clean and free of debris before placing the paper on.
- 6) SANDER PAPER QUALITY....may vary. Belt seams can be thicker on low quality paper and cause chatter. Use only American Sanders Technology specified sandpaper.

PROPER CARE OF YOUR MACHINE CAN MINIMIZE CHATTER AND WAVES.

- 1) V-BELTS.... can cause vibration and chatter if they are of low quality. Use only belts specified by American Sanders Technology.
- 2) TRUCK AND CASTER WHEELS....with flat spots, out-of-roundness, or debris adhered to their surface can cause "waves" or a "chatter effect". Always clean and inspect all wheels before starting to sand, and before the finish cut. Replace or true the wheels if found to be out-of-round.
- 3) DUST PICK-UP SHOES......may need adjusted differently for different materials that are to be sanded. An improperly adjusted shoe will leave trailing debris that will be run over by the wheels and cause "random waves".
- 4) CONTACT WHEELS (DRUMS)......may be out-of-round and cause "chatter". Contact your American Sanders Technology dealer for assistance to true or replace the drum.
- 5) BEARINGS.....in the motor, drum, or fan system may become worn and induce vibration which could cause "chatter".
- 6) PULLEYS.....that are damaged or severly worn can induce vibration and cause "chatter". Contact your American Sanders Technology dealer for assistance.

American Sanders Technology is not responsibile for rework of floors that are unacceptable to the customer. It is your responsibility to insure your equipment is in proper operating order, and that you use the right machine for the job.

ALTO[®] PRODUCT SUPPORT BRANCHES

U.S.A. Locations

HEAD OFFICE

ALTO U.S. Inc., St. Louis, Missouri 16253 Swingley Ridge Road, Suite 200 Chesterfield, Missouri 63017-1725

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> > Technical Service 1-800-356-7274

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AMERICAN SANDERS TECHNOLOGY U.S. WARRANTY

This American Sanders Technology Industrial/Commercial Product is warranted to be free from defects in materials and workmanship under normal use and service for a period of one year from the date of purchase, when operated and maintained in accordance with American Sanders Technology's Maintenance and Operations Instructions.

This warranty is extended only to the original purchaser for use of the product. It does not cover normal wear parts such as electrical cable or V-belts.

If difficulty develops with the product, you should:

(a). Contact the nearest authorized American Sanders Technology repair location or contact the ALTO Service Operations Department, 2100 Highway 265, Springdale, Arkansas 72764, for the nearest authorized American Sanders Technology repair location. Only these locations are authorized to make repairs to the product under this warranty.

(b). Return the product to the nearest American Sanders Technology repair location. Transportation charges to and from the repair location must be prepaid by the purchaser.

(c). American Sanders Technology will repair the product and or replace any defective parts without charge within a reasonable time after receipt of the product.

American Sanders Technology's liability under this warranty is limited to repair of the product and/or replacement of parts and is given to purchaser in lieu of all other remedies, including INCIDENTAL AND CONSEQUEN-TIAL DAMAGES.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SPECIFIED HEREIN. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF. NO WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTY OF MECHANTABILITY, SHALL BE IMPLIED. A warranty registration card is provided with your American Sanders Technology product. Return the card to assist American Sanders Technology in providing the performance you expect from your new floor machine.

ALTO U.S. Inc., 2100 Highway 265, Springdale, Arkansas 72764

AMERICAN SANDERS TECHNOLOGY reserves the right to make changes or improvements to its machine without notice.

Always use genuine American Sanders Technology Parts for repair.

LTO°

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