Landis S-500
Ortho Sander

Operator Manual

Manufactured by:

landis
INTERNATIONAL

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Introduction

The S 500 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 S 500 SANDER, READ OPERATING INSTRUCTIONS MANUAL:

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.
9. DO NOT USE EXTENSION CORD.
10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewellery which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
13. DON'T OVERREACH. Keep proper footing and balance at all times.
14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.
16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function -- check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

RISK OF INJURY

- **DISCONNECT TOOLS BEFORE SERVICING AND LOCK THE SWITCHES.**
- **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.**
- **AVOID KICK BACK BY SANDING IN ACCORDANCE WITH THE DIRECTIONAL ARROWS.**
- **CLOSE SANDING DOORS BELT BEFORE OPERATING THE MACHINE.**
- **CLOSE THE MAIN ACCESS DOOR AND FAN COVER BEFORE OPERATING THE MACHINE.**

INSTALLATION

The Landis S 500 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 on the 4 rubber pads to obtain quiet operation with a minimum of vibration.

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.

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.***

DO NOT START SANDER BEFORE CHECKING FOR PROPER SANDING BELT TRACKING.

ELECTRICAL CONTROL BOX

The electrical control box on back of the machine houses the motor controls on the Sander, except for the Naumkeag motor that runs on 115 volts (on option). The motor is thermally protected. In case of overload, the relay will trip and shut the motor off. The overload on the motor must be reset after a short period of time.

GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

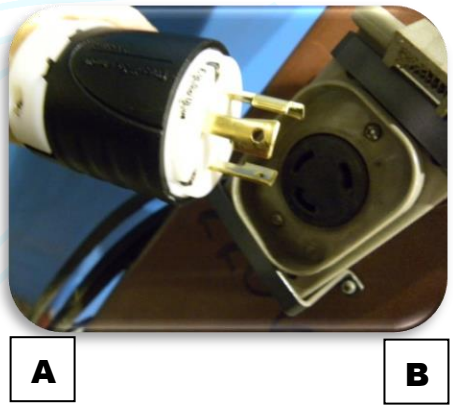
Do not modify the plug provided -- if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to alive terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs, **A**, and 3-pole receptacles that accept the tool's plug, **B**.

Repair or replace damaged or worn cord immediately.



Make sure the tool is connected to an outlet having the same configuration as the plug. No adapter is available or should be used with this tool. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the tool should comply with all local codes and ordinances.

LOCKOUT PROCEDURES

PREPARATION

1. Notify all affected workers that a lockout is required and the reason for the lockout of the machine.

MACHINE OR EQUIPMENT SHUTDOWN AND ISOLATION

1. If the equipment is operating, shut it down by the normal stopping procedure (turn off the switch).

2. Disconnect the electrical plug from the electrical source.

APPLICATION OF LOCKOUT / TAGOUT

1. Lock out and tag the switch with an assigned, individual lock. A worker will not be protected unless he/she uses his/her own padlock.

2. If more than one worker is working on the same piece of equipment at the same time, each one should lock out the equipment, by placing a personal lock and tag on the group lockout device when he/she begins work, and should remove those devices when he/she stops working on the machine or equipment.

3. Locks and tags should clearly show the name of the person who applied the device, the date, and the reason for the lockout. This identifies who is servicing the machinery or equipment. In a multiple lockout/tagout situation, it will also identify any worker(s) who may not have finished working.

4. Locks and tags must be durable enough to withstand the environment in which they are to be used. Information on the locks and tags should remain legible.

5. Locks must be substantial enough to prevent removal without the use of excessive force. Tags must be substantial enough to prevent accidental or inadvertent removal.

6. Both locks and tags are to be standardized by colour, shape, or size. Tags should be easily recognized and provide appropriate information about the lockout.

RELEASE FROM LOCKOUT / TAGOUT

1. Before locks and tags are removed and electricity is restored to the machine, inspect the work area to ensure that non-essential items have been removed and that machine components are operationally intact.

2. Ensure workers are a safe distance from any potential hazard.

3. The lock and tag should be removed from each energy-isolating device by the worker who applied the lock and tag.

4. Notify affected workers that locks and tags have been removed.

START-UP

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.

BEFORE INITIAL START UP, TURN SANDING BELTS BY HAND TO ENSURE THAT ALL PARTS ARE FREE. DO NOT START SANDER BEFORE CHECKING FOR PROPER SANDING BELT TRACKING.

BEFORE CONNECTION TO AN ELECTRICAL POWER SUPPLY:

1. Check that the switch is off.

2. Rotate the sanding belts to see that all parts are free and not binding. Continue for one complete rotation of the sanding belt, checking both belts for tears or other damage. You can tell that one complete revolution has been made when the joint of the sanding belt has gone by the front pulley twice.

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.

BEFORE STARTING THE SANDING BELT MOTOR, CHECK THAT BOTH SANDING BELTS ARE TRACKING PROPERLY, AS FOLLOWS:

1. "Jog" the sanding belt motor by quickly hitting the "start" and "stop" switch such that the belts turn slowly, then stop.

2. Continue jogging the motor and check each belt to see that it stays roughly centered on its forward pulley.

3. Tracking adjustment handles are located to the right of the sanding belts. Clockwise rotation of the adjustments moves the belt to the right and counter clockwise rotation moves the belt to the left. Adjust accordingly as required so that each belt is tracking properly while running slowly.

4. "Jog" sanding motor switch. Fine adjust the tracking of each belt at full speed.

AS THE INDIVIDUAL SANDING BELTS WEAR FROM USE, IT WILL BECOME NECESSARY TO MAKE MINOR TRACKING ADJUSTMENTS TO KEEP THE SANDING BELTS CENTERED.

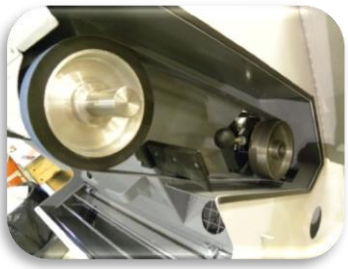
SANDING BELT REPLACEMENT

EYE PROTECTION SHOULD ALWAYS BE WORN BY THE OPERATOR AND OTHERS IN THE WORK AREA WHEN CHANGING SANDING BELTS. EYE PROTECTION IS REQUIRED FOR PROTECTION FROM FLYING DEBRIS AND DUST, WHICH COULD CAUSE EYE INJURY.

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

SOME SANDING BELTS ARE CONSTRUCTED TO ROTATE IN ONE DIRECTION ONLY. CHECK ARROW INSIDE SANDING BELT FOR ROTATION. INCORRECT INSTALLATION CAN CAUSE SUDDEN BELT FAILURE RESULTING IN SERIOUS INJURY TO OPERATOR AND OTHERS IN THE WORK AREA.

TO REPLACE 1 ½" SANDING BELT:



1. Open right sanding belt door.

2. Release pressure on the belt by pushing the grey handle located in front of the machine.

3. Reach in access door and remove the far end of the belt off the idler first.

4. Remove built-up dust on the rubber sanding wheel and on the idler drum.

5. To install the new sanding belt, reverse the procedure described above, then readjust the tracking as described earlier in section "start-up".

TO REPLACE 4" WIDE BELT ON LEFT SIDE:

1. Open left sanding belt door.

2. Release pressure on the belt by pulling the grey handle located in front of the machine.

3. Reach in access door and remove the far end of the belt off the idler first.

4. Remove built-up dust on the rubber sanding wheel and on the idler drum.

5. To install the new sanding belt, reverse the procedure described above, then readjust the tracking as described earlier in section "start-up".

TO REPLACE 4" WIDE BELT ON RIGHT SIDE:

1. Open sanding belt door.

2. Release pressure on the belt by pushing the grey handle.

3. Reach in access door and remove the far end of the belt off the idler first.

4. Remove built-up dust on the rubber sanding wheel and on the idler drum.

5. To install the new sanding belt, reverse the procedure described above, then readjust the tracking as described earlier in section "start-up".

DO NOT START SANDER BEFORE CHECKING FOR PROPER SANDING BELT TRACKING.

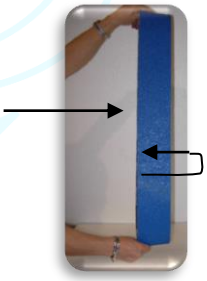
DO NOT OPERATE MACHINE WITH ACCESS DOOR OPEN.

NEVER LEAVE MACHINE RUNNING WHILE UNATTENDED. TURN IT OFF.

AS INDIVIDUAL SANDING BELTS WEAR FROM USE, IT WILL BECOME NECESSARY TO MAKE MINOR TRACKING ADJUSTMENTS TO KEEP SANDING BELTS CENTERED.

LONGER LIFE OF YOUR SANDING BELTS

After you have used a sanding belt for a while, you will find it does not cut as fast as new. When belts cut too slow reverse them, only if the sanding belt can run either way. Here is how:



Turn belt over and remount.

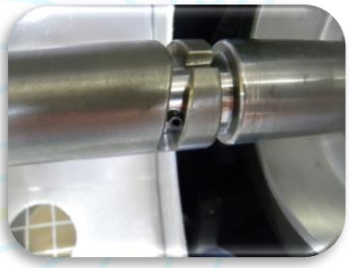
N.B. After reversing a belt, check tracking.

ACCESSORIES

EYE PROTECTION SHOULD ALWAYS BE WORN BY THE OPERATOR AND OTHERS IN THE WORK AREA WHEN USING THE ACCESSORIES SUPPLIED WITH THE LANDIS SANDER. EYE PROTECTION IS REQUIRED FOR PROTECTION FROM FLYING DEBRIS AND DUST, WHICH COULD CAUSE EYE INJURY.

ACCESSORIES ON QUICK CHANGE BAYONET FITTING:

Both ends of the sanding shaft are machined to accommodate bayonet fitting (quick change). Extra tools and sanding wheels are available on request. See the list at the end of this book.



When removing the quick change fittings, use the special spanner wrench supplied with the machine. To remove, engage the spanner in the hole near the end of the bayonet fitting and apply a sharp rap downward. Before putting on a fitting be sure the machine surfaces are clean. Hand tightening is sufficient to hold the fitting in proper position.

FAILURE TO PROPERLY MOUNT THE ADAPTOR WILL RESULT IN FLYING APART AND POSSIBLE INJURY TO THE OPERATOR AND OTHERS IN THE WORK AREA.

THESE QUICK CHANGE ACCESSORIES SHOULD BE PROPERLY ENGAGED ON THE SHAFT TO ENSURE SAFE OPERATION. MAKE SURE PIN ON SHAFT ENGAGES THE ADAPTOR CORRECTLY.

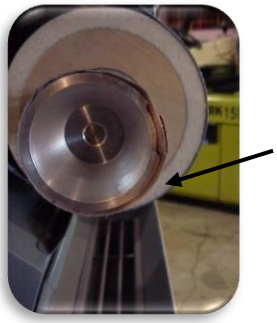
SPANNER WRENCH

When removing the quick change fittings, use the black spanner wrench supplied with the machine. To remove, engage the spanner in the hole near the end of the bayonet fitting and apply a sharp rap downward. Before putting on a fitting be sure the opening ends are cleaned. Hand tightening is sufficient to hold the fitting in proper position.

N.B. When properly mounted, the bayonet fitting will tighten itself by rotating it in the socket in the opposite direction of the sanding belt rotation.

HEEL BREASTER ON BAYONET:

A Heel breaster mounted on a quick change adaptor is provided with your Sander and can be used on the left side of the main shaft.



Verify that the sandpaper is well placed on the cone so that the 2 ends of it are in the groove of the cone.

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.

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

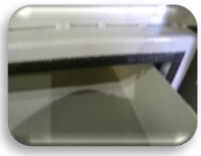
1. Clean your Landis Sander daily.

2. Shake dust bags and empty dust drawer daily.

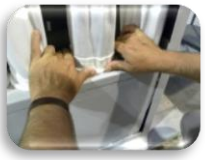
- After cleaning the machine, turn dust extraction motor off. While the motor is coasting to a stop, shake bag vigorously.

- Open the front door. Unscrew the black handles to open dust drawer.

- Remove the large dust tray, remove dust.



- Check seal around drawer and replace if damaged or if it is not sealed properly.



- Check the ring at the bottom of the dust bag. Make sure that the ring is well snapped into the round hole.

- When the dust drawer is full, dust may spill when the drawer is removed. Vacuum out the bottom of the machine before replacing the drawer for the last time.

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

3. 4" Felt or rubber sanding wheel:

- Clean the felt or rubber surface to avoid accumulation of dust. If there is too much accumulation, the sanding belt won't stay on the felt or rubber wheel and you will have problems with tracking.

4. Idler wheel 4":

- Clean the flat surface to avoid accumulation of dust.

DUST FROM SANDER IS COMBUSTIBLE. DO NOT SMOKE WHILE CLEANING THE MACHINE AND DUST COLLECTOR.

DAMAGED DUST BAG OR DUST DRAWER SEALS 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.

REPLACE ALL DOORS AND GUARDS BEFORE OPERATING THE MACHINE.

DO NOT OPERATE MACHINE WITH SANDER HOUSING DOORS OPEN.

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. Check the felt or rubber sanding pulleys surface for any accumulation of dust. Clean if necessary. Replace the wheel if worn.

2. V-Belts – Check tension and adjust if necessary.

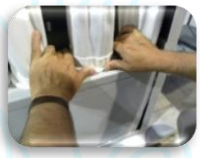
YEARLY MAINTENANCE

BEFORE REMOVING DUST BAGS, DISCONNECT ELECTRICAL POWER SUPPLY.

Once a year you should remove the dust bags for a thorough cleaning.

The dust bags are removed by:

1. From the back of the machine, unsnap the top of each bag.



2. Remove the dust bags by pushing on the ring at the bottom of each bag.
3. You can use a vacuum cleaner to clean both inside and outside of the dust bag.
4. Replace the dust bags.

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 2 V-Belts 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.

DISCONNECT ELECTRICAL POWER SUPPLY BEFORE WORKING ON THE MACHINE.

TO CHECK V-BELT TENSION

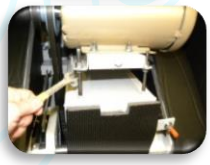
1. Disconnect the electrical power supply.

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.

   To adjust the tension, unscrew the nuts on the 2 threaded rods. Move the motor plate up or down accordingly to your needs.



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.

MOTORS REPLACEMENT

MOTOR REPLACEMENT REQUIRES WORKING WITH ELECTRICAL WIRING AND CAN BE HAZARDOUS. IF YOU ARE NOT FAMILIAR WITH ELECTRICAL PROCEDURES, PLEASE CALL A QUALIFIED ELECTRICIAN.

SANDING MOTOR

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

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

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

6. 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.

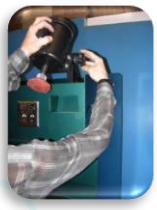
7. Reassemble with new motor in reverse order to the above procedures.

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.

NAUMKEAG MOTOR (OPTION)

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



1. Disconnect the electrical power supply.

2. Remove the complete unit by taking off the Naumkeag knob.

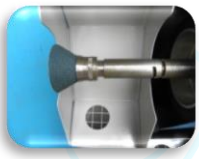
3. Remove four (4) screws, nuts and washers that hold motor to swivel plate. Remove motor.

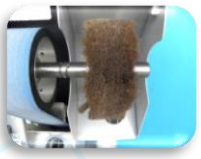
4. Loosen set screw on Naumkeag shaft and pull out the adapter from the shaft motor.

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

OTHER PARTS REPLACEMENT AND ADJUSTMENT

SANDING SHAFT AND BEARING REPLACEMENT





Before removing sanding shaft and bearings, disconnect the power supply.

1. Take, the two bayonet off the machine.

2. Remove the front cover that is hidings the bearings.

3. Remove the 2 sanding belts from the machine.

4. Unscrew the screws on the two felt or rubber wheels to slide those out of the main shaft.

5. Take off the V-Belt on the pulley. Leave it on the side between the bearing and the pulley. It will come out when you will pull the shaft.

6. Unscrew the two Allen set screws on the pulley.

7. Unscrew the 2 Allen set screws on each bearing and slide the shaft out on the left side. If there are marks or burrs on the shaft, sand those with fine sandpaper.

8. Unscrew the 2 hexagonal bolts on each bearing to change them.

Make sure to align the 2 new bearings to get the horizontability off the main shaft.

9. Reverse procedure to assemble and don't forget to put back the V-Belt on the shaft before sliding it in the first bearing.

FRONT DOOR HANDLE ADJUSTMENT

If the door is not attached firmly to the machine you have to tight the hexagonal bolt on the handle to adjust.

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If you can not close the handle, you have to unscrew the hexagonal bolt on the handle.

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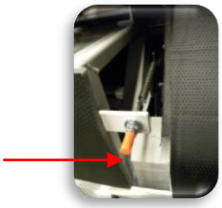
HOW TO CHANGE THE IDLER WHEEL ASSEMBLY

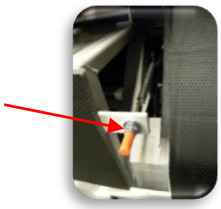
1. Disconnect the electrical power supply.

2. Remove the sanding belt from the machine. First take out the tension on the idler wheel with the tension arm.

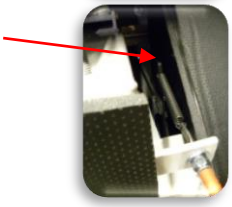
3. Remove the orange end cap.



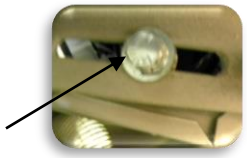
4. Unscrew the hexagonal nut to take out the spring. Be careful: hold the spring with a pincer.



5. Unscrew the hexagonal bolt to dismantle the idler arm from the releasing system.



6. To take out the complete idler wheel assembly, unscrew the ¾" hexagonal bolt.



NOTE: ***You need somebody to retain the idler when the mechanic is doing this operation.***

7. Install the new idler wheel assembly. Make sure that the tracking T arm is parallel with the sanding belt.

TROUBLE SHOOTING

LOST OF SUCTION IN DUST COLLECTION

1. Dust drawer may be full. Empty it.
2. Blower fan may be clogged. Clean it.
3. Sander too close to the back wall. Your Sander should be 6" distance from the wall.

BELT CREEPS

1. Belt worn out or frayed one side. Install new belt.

MOTOR STOPS WITH SWITCH ON

CAUTION: ***TURN SWITCH OFF IMMEDIATELY***

1. Too much equipment operated on same circuit on which Landis S-500 Sander is connected. Check circuit breaker or fuse box.
2. An overload may have caused the thermal overload protector in motor to shut off current. Be sure sander is off, then find and eliminate cause for overload. Motors are equipped with manual Re-Set thermal overload protector wait at least 15 minutes, then firmly press Re-Set button on motor with eraser end of pencil or a small blunt dowel. After approximately 30 minutes you should be able to hear or feel overload protector click in when pushed to reset. After Re-Set clicks in, turn switch on and motor should run normally.

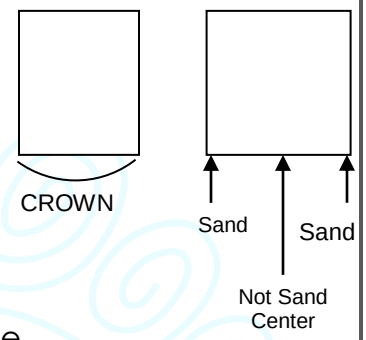
SANDING BELT 4" DOESN'T STAY ON THE FELT OR RUBBER WHEEL

1. Pull or push the release tension arm to put at the right place.

2. Secondly verify if there is dirt or dust clogged on the front wheel. If so, clean it with a scraper or a sandpaper.
3. Check on the back of the machine is the spring is giving enough tension to the idler wheel.

NOTE: ***To increase the tension on the spring unlock the nut and turn the threaded rod to pull the spring.***

4. If there is still a problem, you can sand the felt wheel in a way that instead of having a flat surface, the wheel will have a crown. A very small crown.



To do so you are sanding just a little on each side of the flat surface, not the center; with a fine sandpaper attach to a flat piece of wood.

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Accessories

Accessories for Sander and Finisher

8" Yarn brush on bayonet fitting
SKU: SU1210361
SKU: SU1209753 - 8" Yarn brush only

8" Horsehair brush on bayonet fitting
SKU: SU1210362 (BROWN)
SKU: SU1210363 (BLACK)
SKU: P7141 - Brown horsehair brush only
SKU: P7142 - Black horsehair brush only

5" Wire brush on bayonet fitting
SKU: SU1210365
SKU: SU1209756 - Wire brush only

6" Flap emery wheel on bayonet fitting
SKU: SU1210367
6" Flap emery wheel 120x
SKU: SU1907174
6" Flap emery wheel 180x
SKU: SU1907175

Laminated cloth wheel on bayonet fitting
SKU: SU1210368
Laminated cloth wheel only
SKU: SU1201684

6" Welt cleaning brush on bayonet fitting
SKU: SU1210369
6" Welt cleaning brush only
SKU: ST6

5" x 2 1/2" FS Sanding wheel on bayonet fitting
SKU: SU1210371
2 1/2" FS Sanding wheel only
SKU: FS2125
Set of 2 cams
SKU: FSC

4 1/2" Bottom sander on bayonet fitting
SKU: SU1210372
4 1/2" Bottom sander only
SKU:BS412
Set of 2 cams
SKU:BSC

5" x 1 3/8" FS Wheel on bayonet fitting
SKU : SU1210375
5" FS Wheel
SKU : FS1385
Set of 2 cams
SKU : FSC

5" x 1 3/8" 'B' Sanding wheel on bayonet fitting
SKU : SU1210376
5" 'B' Sanding wheel
SKU : B1385
Set of 2 cams
SKU : FSC

7" x 3 1/4" Pneumatic contour sander on bayonet fitting
SKU:SU1210993

Hard scotch brite wheel on bayonet fitting - 8" x 1" or 8" x 2"
SKU:SU1210291R
8" x 1" Hard scotch brite wheel only
SKU: SU1200429
8" x 2" Hard scotch brite wheel only
SKU: SU1200430

Soft scotch brite wheel on bayonet fitting - 6" x 1" or 8" x 2"
SKU: SU1210291S
6" x 1" Soft scotch brite wheel only
SKU: SBW61
8" x 2" Soft scotch brite wheel only
SKU: SBW82

Spanner wrench for bayonet
SKU: CCL

6" x 1 1/2" on track wheel
SKU: TW112
6" x 3" on track wheel
SKU: TW3
6" x 4" on track wheel
SKU: TW4

Key for on track wheel
SKU: OTWWR

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Accessories for Sander and Finisher

Naumkeag head complete 1/2" shaft
SKU: ANC12

Naumkeag head complete 3/8" shaft
SKU: ANC38

Naumkeag head on bayonet fitting
SKU: SU1210379

SU1210382
50mm cone on bayonet fitting

R or L - Heel breaster on bayonet fitting
SKU: SU1210381 (for sandpaper)
Heel breaster left only
SKU: CALH
Heel breaster right only
SKU: CARH

Scotch brite polishing cone adapter
SKU: A162

Scotch brite polishing cone 4" X 1" diameter
SKU: A163

Small tapered rubber sanding cone 4" x 1"
SKU : RCS

Medium tapered rubber sanding cone 4" X 1 1/2"
SKU : RCM

Large tapered rubber sanding cone 4" X 2"
SKU : RCL

Sandpaper for small sanding cone, 24, 40, 80, 100 and 120 grits
SKU : RCS(24,40,80,100 or 120)

Sandpaper for medium sanding cone, 24, 40, 80, 100 and 120 grits
SKU : RCM (24,40,80,100 or 120)

Sandpaper for large sanding cone, 24, 40, 80, 100 and 120 grits
SKU : RCL (24,40,80,100 or 120)

US Straight male bayonet
SKU : M7591A

US Tapered female bayonet with threaded extension
SKU : SU1210991

US Tapered female bayonet
SKU : SU1207193

US Tapered male bayonet
SKU : SU1207182

US Straight male bayonet with threaded extension
SKU : TSF31213

Diamond grit breaster cone sleeves.
Replace sandpaper with those diamond cones that have a life expectancy of more than 5 years. Extremely economical.

U.S. Diamond heel breaster 40/50 grit
SKU: CDAS

50mm Diamond heel breaster 40/50 grit
SKU: CD50

Bedding rubber cone 2 1/2" X 1 3/4"
SKU : GRENADE

Grenade cover 40 grits
SKU : 86162070

Grenade cover 80 grits
SKU : 86162080

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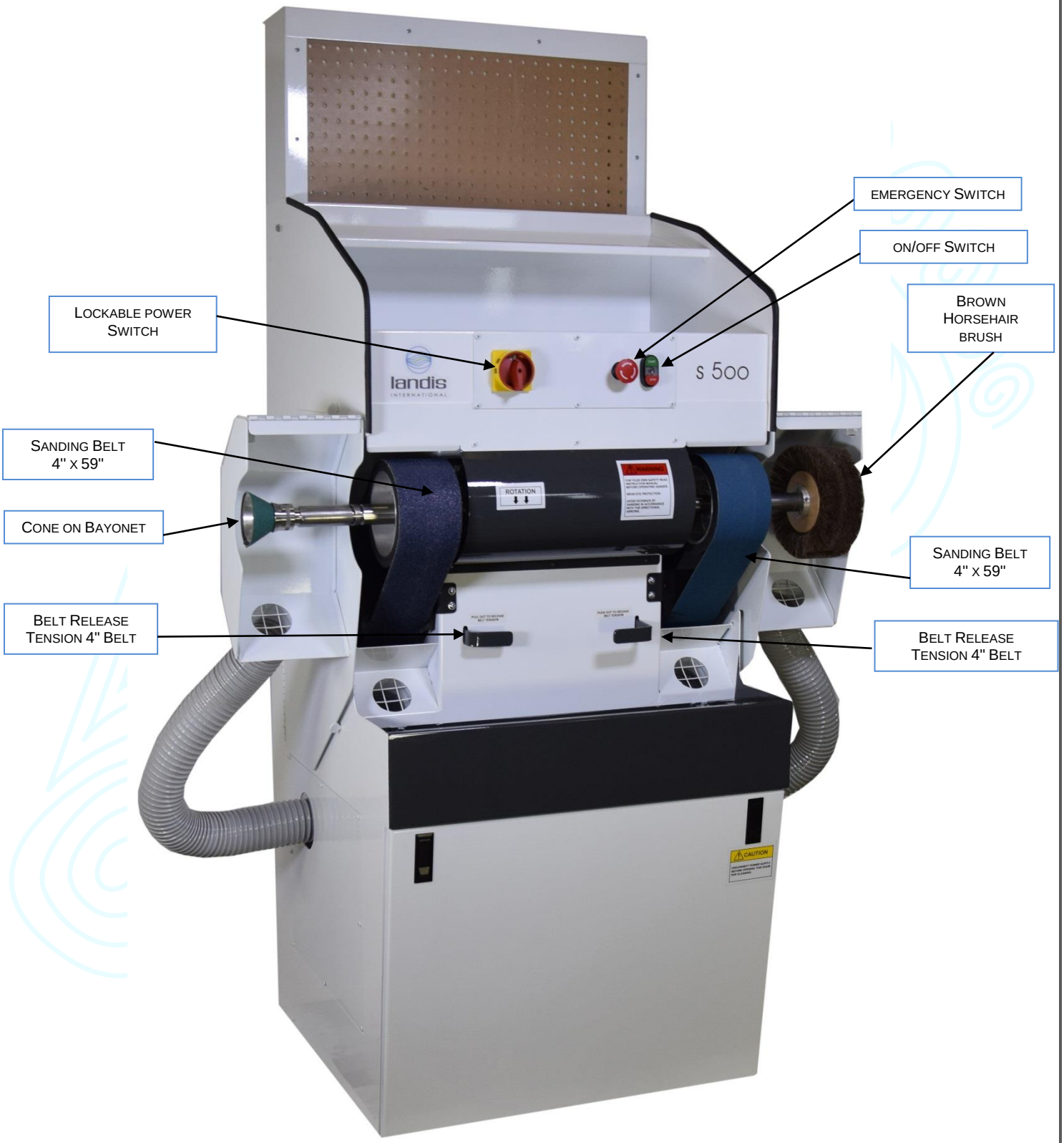
PARTS


EMERGENCY SWITCH
ON/OFF SWITCH
LOCKABLE POWER SWITCH
BROWN HORSEHAIR BRUSH
SANDING BELT 4" X 59"
CONE ON BAYONET
SANDING BELT 4" X 59"
BELT RELEASE TENSION 4" BELT
BELT RELEASE TENSION 4" BELT
landis
S 500
ROTATION
CAUTION

PARTS LIST

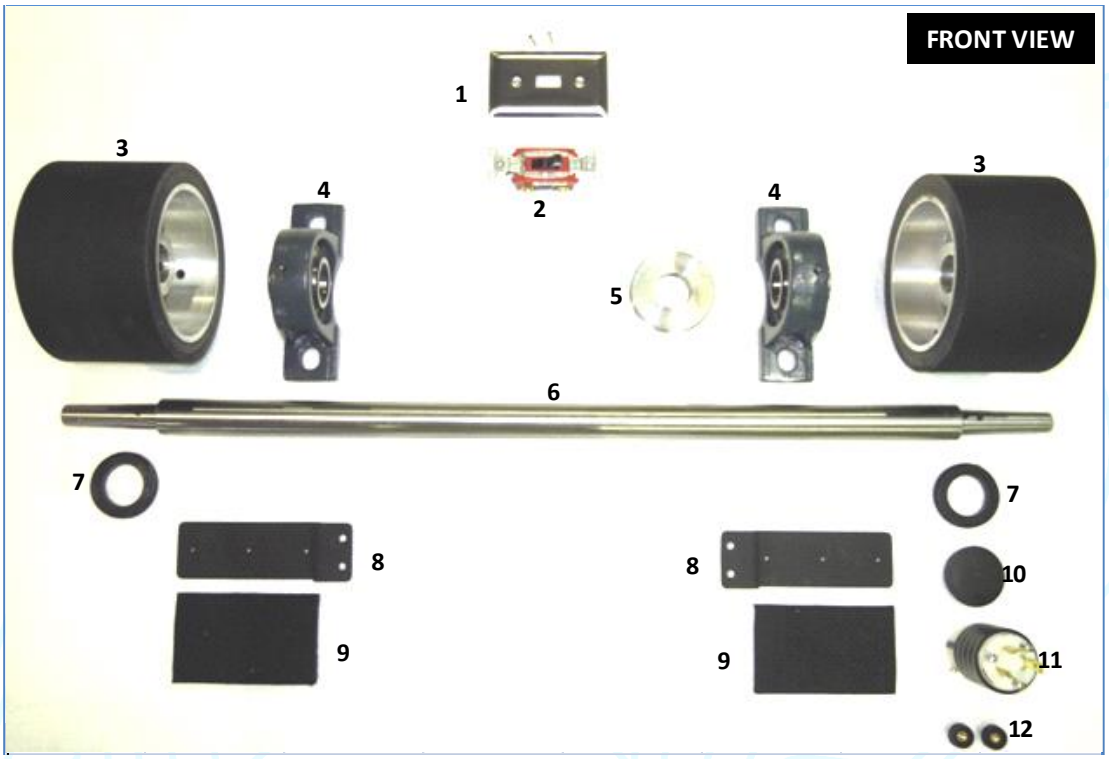
PART	DESCRIPTION	REF #
12001500	MOTOR - 1.5 HP, 3 PH, 200-208 VOLTS	
1200646	CANVAS COVER FOR PNEUMATIC DRUM	
1207199	35" SHAFT, MALE TAPER #3	
1207223	28" SHAFT, FEMALE TAPER # 3	
1209743	4" WELT BRUSH ON ATCO FITTING	A-27
1210288	EDGE IRON	A-23
1210289	PNEUMATIC DRUM ON BAYONET	A-24
1210290	SCOTCH BRITE WHEEL 8" X 1"	A-25-1
1210293	4" WIRE BRUSH ON ATCO	A-28
SPC	STITCH PICKER ON ATCO	A-29
1210361	8" YARN BRUSH ON 8-1/2" PLAIN BAYONET	A-2
1210362	8" BROWN HORSE HAIR BRUSH/LEATHER BURN	A-3
1210363	BLACK HORSE HAIR BRUSH 8" ON 8-1/2 BAYONET	A-4
1210364	BROWN HORSE HAIR BRUSH 8"	A-4
1210365	WIRE BRUSH 5" ON BAYONET	A-5
1210366	5" GRINDING STONE ON BAYONET (EMERY WHEEL)	A-6
1210367	FLAP WHEEL 6" X 1" 120 OR 180 GRIT	A-8
1210368	LAMINATED CLOTH WHEEL 8"X 1-1/2" ON BAY.	A-9
1210369	6" WELT BRUSH ON BAYONET	A-10
1210370	PROTECTED EDGE WHEEL ON BAYONET	A-11
1210372	FS SANDING WHEEL	
A-13	4-1/2" WIDE BOTTOM SANDER ON BAYONET	A-13
1210373	5"X 2 1/2" FLAT SANDING WHEEL ON BAYONET	A-14

PART	DESCRIPTION	REF #
1210375	1-3/8" WIDE FLAT SANDING WHEEL ON BAYONET	
1210376	1-3/8" B SHAPE SANDING WHEEL ON BAYONET	
0300959	DOOR LATCH FRONT DOOR	
20AC2	SWITCH, TOGGLE (SINGLE PHASE)	
C2360	V-BELT 4L360 (BELT FOR SANDING SHAFT)	
C2680	V-BELT 4L680 (BELT FOR BLOWER SHAFT)	
AK30H	PULLEY, AK30-H (PULLEY FOR BLOWER AND SANDING SHAFT)	
0600683	PULLEY, AK44-30H (PULLEY FOR MOTOR SHAFT)	
H78	HUB, H-7/8 (HUB FOR MOTOR PULLEY)	
H1	HUB, H - 1" (HUB FOR BLOWER SHAFT PULLEY)	
H1516	HUB, H - 1-5/16" (HUB FOR SANDING SHAFT PULLEY)	
Z128	MOTOR – 2.0 HP 60HZ 1 PH 208-230V	
1200421	CONTACT WHEEL COMPLETE 1-9/16" WITH FELT	
1200421R	CONTACT WHEEL COMPLETE 1-9/16" WITH RUBBER	
1200422	CONTACT WHEEL COMPLETE 4" WITH FELT	
1200422R	CONTACT WHEEL COMPLETE 4" WITH RUBBER	
1200464	FELT BELT WIPE PAD	
1207195	SHAFT 31" EXTENDED FOR ATCO FITTING	
SP5200	DUST BAG 60"	
UCP20516	BEARING 1" PILLOW BLOCK COMPLETE	
UCP20721	BEARING 1 5/16" PILLOW BLOCK COMPLETE	
1700594	FLEXHOSE 3"	
1700595	HOSE CLAMP	
1700597	HOSE 3" EXTRA FLEX BLACK	
1707292	SHAFT BLOWER 1" X 14-3/4"	

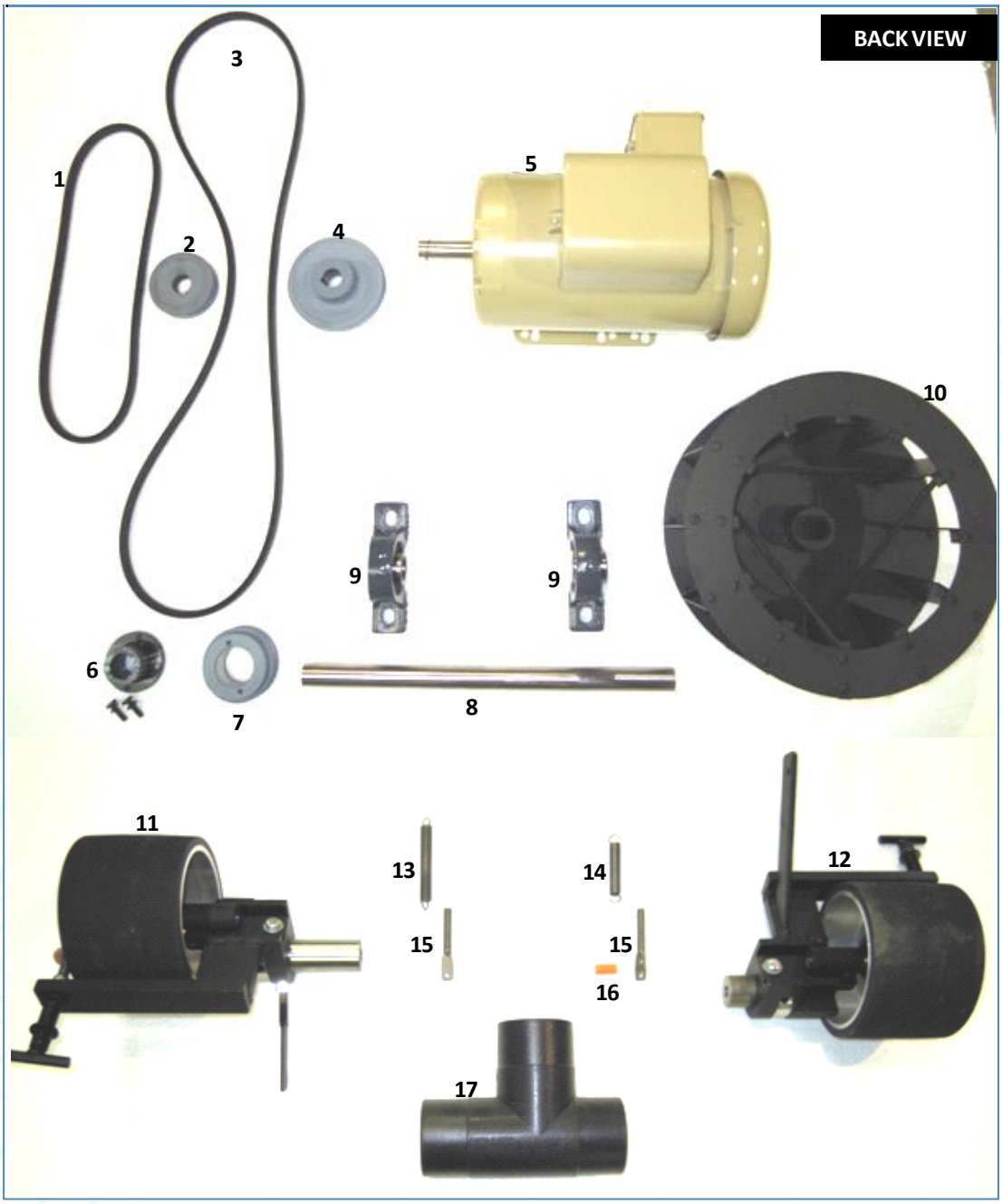
PART	DESCRIPTION	REF #
1800289	4" IDLER DRUM BEARING	
18002	2" IDLER DRUM BEARING	
1807241	T-HANDLE ADJ. ROD WELD	
1807330	IDLER DRUM I-400-2 (2" IDLER DRUM ONLY)	I-400-2
1807331	IDLER DRUM I-400-4 (4" IDLER DRUM ONLY)	I-400-4
1807248	2" IDLER WHEEL ASSEMBLY (INCLUDES DRUM AND BEARING)	
1807249	4" IDLER WHEEL ASSEMBLY (INCLUDES DRUM AND BEARING)	
1807303	SHAFT IDLER (1-5/16 X 5-1/2") (5-1/2" IDLER SHAFT - FOR RH SIDE)	
1807306	SHAFT IDLER (1-5/16 X 3-1/4") (3-1/4" IDLER SHAFT - FOR LH SIDE)	
1810491	IDLER ASSEMBLY 2" L.H. IDLER ASSEMBLY	
I-4052LH	DOES NOT INCLUDE WHEEL OR ADJUSTING HANDLE	I-4052LH
1810499	IDLER ASSEMBLY 4" R.H. IDLER ASSEMBLY	I-4404RH
	DOES NOT INCLUDE WHEEL OR ADJUSTING HANDLE	
1810520	IDLER KIT ALL 1-9/16" LEFT HAND IDLER PARTS	2LH-STD
1810523	IDLER KIT ALL 4" RIGHT HAND IDLER PARTS	4RH-STD
1125924	BELT, 1½" X 59" 24 GRIT	
1125940	BELT, 1½" X 59" 40 GRIT	
11259100	BELT, 1½" X 59" 100 GRIT	STANDARD
45924	BELT, 4" X 59" 24 GRIT	STANDARD
45940	BELT, 4" X 59" 40 GRIT	
45980	BELT, 4" X 59" 80 GRIT	
459100	BELT, 4" X 59" 100 GRIT	
459120	BELT, 4" X 59" 120 GRIT	
2910480	12" BLOWER BLADE ASSEMBLY	
1210379	NAUMKEAG HEAD ON BAYONET	A-20
1210380	RH HEEL BREASTER ON BAYONET	A-21R
1210381	LH HEEL BREASTER ON BAYONET	A-21L

PART	DESCRIPTION	REF #
1210382	6" WELT BRUSH ON ATCO	
1210383	8" BLACK BRUSH AND BURNISHER ON BAYONET	A-3
1907171	ABRASIVE PAPER FOR PNEUMATIC DRUM (100 GRIT PAPER)	
1907172	ABRASIVE PAPER FOR PNEUMATIC DRUM (120 GRIT PAPER)	
1907173	6" X 1" FLAP WHEEL 100 GRIT WHEEL	
1907175	6" X 1" FLAP WHEEL 180 GRIT WHEEL	
300003 SWITCH	3 PHASE TOGGLE SWITCH (SWITCH USED WITH 3 PHASE MOTOR)	

PARTS (FRONT VIEW - BACK VIEW)

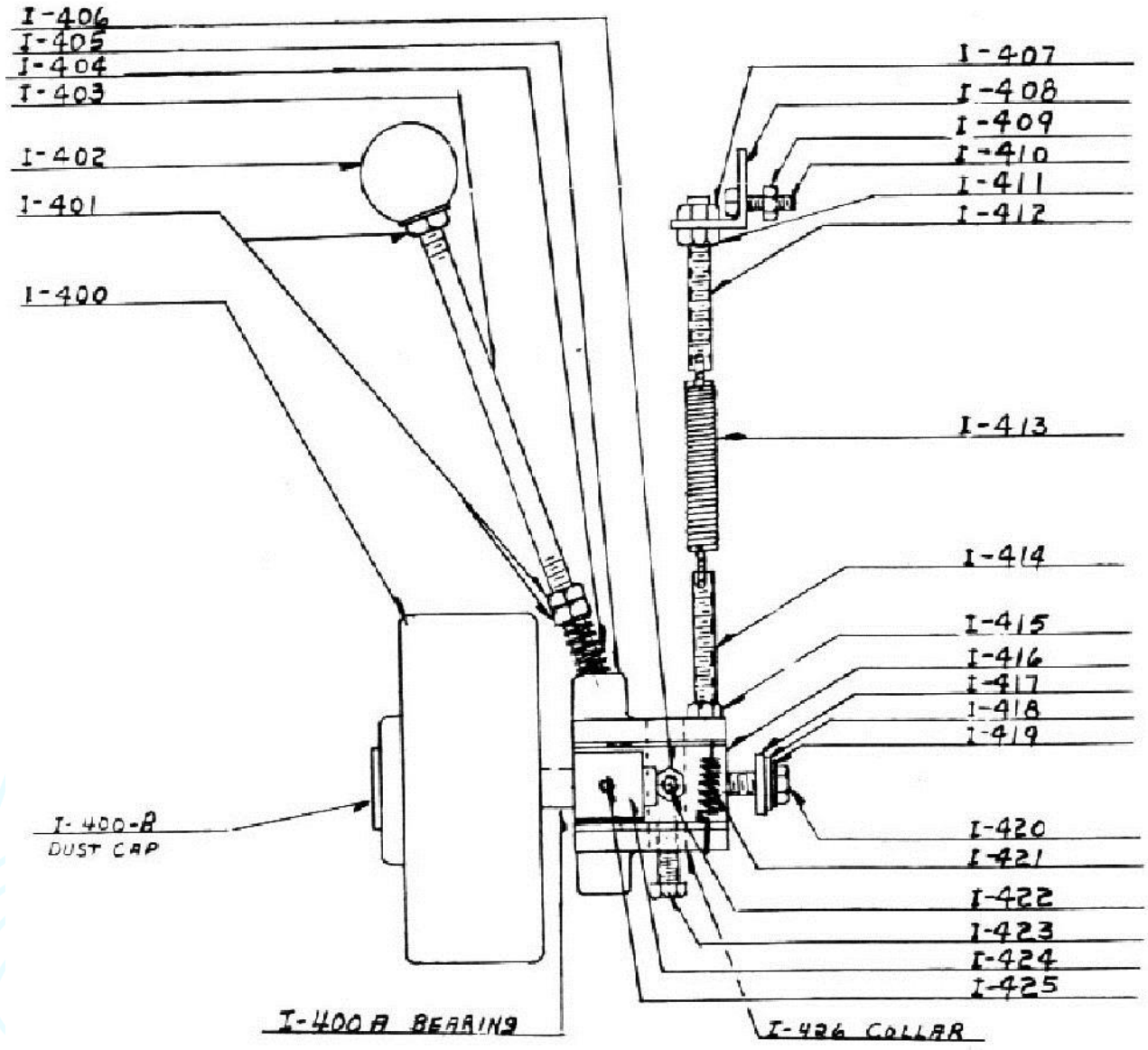


	Part number	Description
1	**T10**	Cover switch
2	**CSB220**	Switch 30 amps
3	**SU1200422R (2x)**	Contact wheel 4" x 7" rubber
4	**UCP20721 (2x)**	Pillow block 1 5/16" main shaft
5	**AS301516**	Pulley 3" sanding shaft
6	**MS5200**	Main shaft, 2 male tapers
7	**RB107 (2x)**	Rubber grommet 2"
8	**SU2950209 (2x)**	Belt wipe bracket
9	**SU1200464 (2x)**	Feld pad belt wipe
10	**245054**	Black cap 2" for blower shaft
11	**70630NP**	Male plug 230v, 1PH, 3 prongs
12	**135013**	Dust drawer handle 1/4" - 20

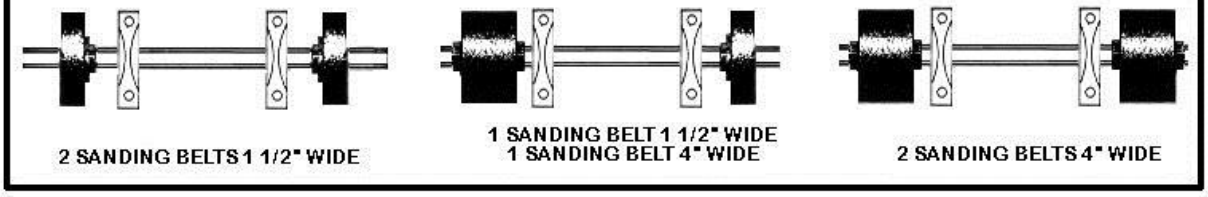


	Part number	Description		Part number	Description
1	C2360	Belt 1/2" x 36" sanding shaft	10	SU2910480	Fan 12"
2	AS3078	Motor pulley 3" sanding shaft	11	SU1810499	Left idler wheel assy
3	C2680	Belt 1/2" x 68" blower fan	12	SU1810498	Right idler wheel assy
4	MA4478	Motor pulley 4" blower fan	13	B670	Binder spring 1/2" x 4"
5	Z128	Motor 2 HP, 1800 RPM, 230V, 60HZ	14	B669	Binder spring 1/2" x 3" short
6	H1	Bushing H 1" for blower pulley	15	SU0800439 (2x)	Projection weld screws 3/8-16 3"
7	AK30H	Pulley 3" blower pulley	16	317013	End cap 3/8" x 1/2"
8	SU1707292	Blower shaft 1" x 14 3/4"	17	T3	T 3"
9	UCP20516 (2x)	Pillow block 1" for blower shaft			

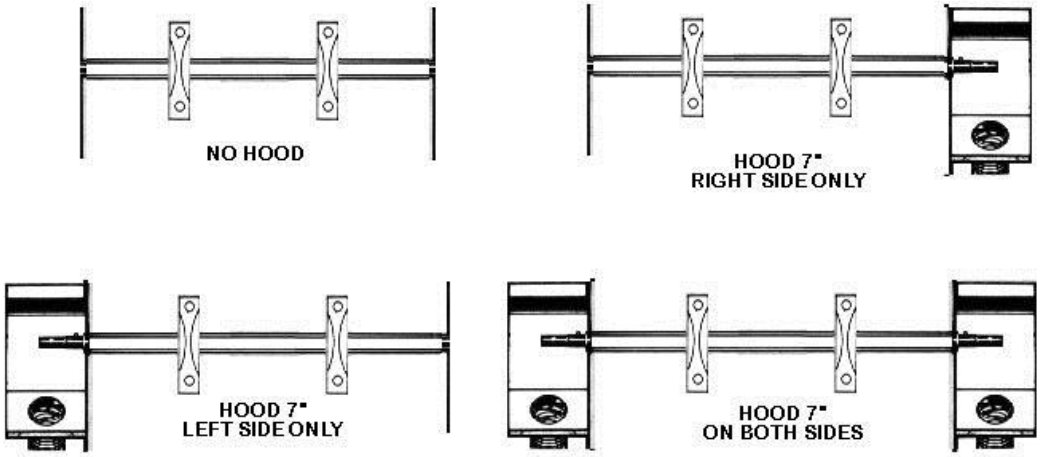
S-500 IDLER 4" LEFT



SANDING BELT'S COMBINATIONS



HOOD'S POSSIBILITIES



SHAFT'S ENDS