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Operating Instructions — Parts Manual Disc, Belt, and Combination Disc/Belt Sanders Models: 4200A, 4300A, 4400A



4200A Disc/Belt Sander



4300A 6 Inch Belt Sander



4400A 12 Inch Disc Sander

WHM TOOL GROUP 2420 Vantage Drive Elgin, Illinois 60123 Ph.: 800-274-6848 www.wmhtoolgroup.com

Part No. 5511365 Revision E2 10/04 Copyright © WMH Tool Group This manual has been prepared for the owner and operators of a Wilton Sander. Its purpose, aside from machine operation, is to promote safety using accepted operating and maintenance procedures. To obtain maximum life and efficiency from your Sander and to aid in using it safely, please read this manual thoroughly and follow instructions carefully.

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Machine and Manual Overview

Wilton Abrasive Finishing Machines are available in three different configurations: disc, belt, and combination disc and belt. Each configuration is a rugged, heavy-duty machine designed for maximum high production work in an industrial environment.

The speed of stock removal and the quality of finish achieved is determined largely by the aggressiveness of the abrasive disc or belt mounted on the machine. With very aggressive grits, these machines are typically considered grinding machines. With very fine grits, these machines are typically considered sanding machines. Whatever you call them, and however you use them, the instructions in this manual will help you use them safely and productively.

You will note there are several types of electrical systems available for these machines. All of these systems are equally effective in providing power to the grinding mechanism -- however, local codes and the type of environment in which the machine is used will often be a factor in your choice of system.

Instructions in this manual assume that you are using one of the Model 4200A series Belt and Disc machines. If you have a disc only, or belt only machine, you can bypass those instructions which do not apply to you.

General Specifications





Belt Sander



Table size	12x16 3/8 in. (254x416mm)	7 3/8x14 3/4 in. (187x355mm)	Disc:12x16 3/8 in. (254x416mm) Belt: 7 3/8x14 3/4 in. (187x355mm)
Table tilt	45° down, 20° up	45° down, 20° up	(both) 45° down, 20° up
Miter gauge groove	3/8x3/4 in. (9.5x19mm)	3/8x3/4 in. (9.5x19mm)	(both) 3/8x3/4 in. (9.5x19mm)
Disc diameter Disc Speed	12 in. (305mm) 1960 RPM		12 in. (305mm) 1960 RPM
Platen size Belt size Belt speed		6 1/4x14 3/4 in. (159x375mm) 6x48 in. (152x1214mm) 2850 SFM	6 1/4x14 3/4 in. (159x375mm) 6x48 in. (152x1214mm) 2850 SFM
Dimensions (depth, W, H)	29x17x42 3/4 in. (1070x725x4250mm)		
Dimensions w/platen vertical (depth,W, H)		19x16x57 1/2 in. (475x400x1437mm)	19x16x57 1/2 in. (475x400x1437mm)
Dimensions w/platen horizontal (depth, W, H)		25 1/2x16x43 in. (637x400x1075mm)	25 1/2x16x43 in. (637x400x1075mm)
Motor options	Model 4400A 1 ph. 1.5HP 115/230V	Model 4300A 1 ph. 1.5HP 115/230V	Model 4200A 1 ph. 1.5HP 115/220V
	Model 4401A 3 ph. 1.5HP 230V/460V	Model 4301A 3 ph. 1.5HP 230V/460V	Model 4202A 3 ph. 1.5HP 230V/460V
	Model 4403A 3 ph. 1.5HP 230/460V (connected 460) full JIC, 110V at the switch	Model 4303A 3 ph. 1.5HP 230/ 460V (connected 460) full JIC, 110V at the switch	Model 4204A 3 ph. 1.5HP 230/ 460V (connected 460) full JIC, 110V at the switch
Weight	unassembled 164 lbs. (74 kg.)	211 lbs. (96 kg.)	250 lbs. (113 kg.)

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WARNING

General Machinery Cautions

Misuse of this machine can cause serious injury.For safety, the machine must be set up, used and

 For safety, the machine must be set up, used and serviced properly.

- Read, understand and follow the instructions in the operator's and parts manual which was shipped with your machine.

When setting up the machine:

- Always avoid using the machine in damp or poorly lighted work areas.

- Always be sure the machine is securely anchored to the floor.

- Always keep the machine guards in place.

- Always put the start switch in the "OFF" position before plugging in the machine.

When using the machine:

Never operate the machine with safety guards missing.
 Always wear safety glasses with side shields (See ANSI Z87.1)

- Never wear loose clothing or jewelry.

- Never overreach — you may slip and fall into the machine.

- Never leave the machine running while unattended.

- Always shut the machine off when not in use.

When servicing the machine:

- Always unplug the machine from the electrical power while servicing.

- Always follow the instructions in the operators and parts manual when changing accessory tools or parts.

- Never modify the machine without consulting Wilton Corporation.

You - the stationary power tool user - hold the key to safety.

Read and follow these simple rules for best results and full benefits from your machine. Used properly, Wilton's machinery is among the best in design and safety. However, any machine used improperly can be rendered inefficient and unsafe. It is absolutely mandatory that those who use our products be properly trained in how to use them correctly. They should read and understand the Operators and Parts Manual as well as all labels affixed to the machine. Failure in following all of these warnings can cause serious injuries.

General Machinery Warnings

1. Always wear protective eye wear when operating machinery. Eye wear shall be impact resistant, protective safety glasses with side shields which comply with ANSI Z87.1 specifications. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from the breakage of the eye protection.

2. Wear proper apparel. No loose clothing or jewelry which can get caught in moving parts. Rubber soled, nonslip, footwear is recommended for best footing.

Do not overreach. Failure to maintain a proper working position can cause you to fall into the machine or cause your clothing to get caught — pulling you into the machine.
 Keep the guards in place and in proper working order.

Do not operate the machine with the guards removed.

5. Avoid dangerous working environments. Do not use stationary machine tools in wet or damp locations. Keep work areas clean and well lit.

6. Special electrical precautions should be taken when working on flammable materials.

7. Avoid accidental starts by being sure that the start switch is in the "OFF" position before plugging in the machine.

8. Never leave the machine running while unattended. The machine shall be shut off whenever it is not being used.

9. Disconnect the electrical power before servicing, whenever changing accessories or when general maintenance is done on the machine.

10. Maintain all machine tools with care. Follow all maintenance instructions for lubricating and the changing of accessories. No attempt shall be made to modify or have makeshift repairs done to the machine. This not only voids the warranty but also renders the machine unsafe. 10. The machinery must be anchored to the floor.

11. Secure your work. Use clamps or a vise to hold your work, when practical. It is safer than using your hands and it frees both hands to operate the machine.

12. Never brush chips away while the machine is in operation.

13. Keep work area clean. Cluttered areas invite accidents.

14. Remove adjusting keys and wrenches before turning the machine on.

15. Use the right tool. Don't force a tool or attachment to do a job it was not designed for.

16. Use only recommended accessories and follow manufacturers instructions pertaining to them.

17. Keep hands in sight and clear of all moving parts and cutting surfaces.

18. All visitors should be kept at a safe distance from the work area. Make your workshop completely safe by using padlocks, master switches, or by removing starter keys.

19. Know the tool you are using — its application, limitations, and potential hazards.

General Electrical Cautions

This machine should be grounded in accordance with the National Electrical Code and local codes and ordinances. The work should be done by a qualified electrician. The machine should be grounded to protect the user from electrical shock.

Wire Sizes

Caution: For circuits that are a great distance from the electrical service box, the wire size must be increased in order to deliver ample voltage to the motor. To minimize power losses and to prevent motor overheating and burnout, the use of wire sizes for branch circuits or electrical extension cords according to the following table is recommended:

Conductor length	AWG (American Wire Gauge) number			
	240 volt lines	120 volt lines		
0-50 feet 50-100 feet Over 100 feet	No. 14 No. 14 No. 12	No. 14 No. 12 No. 8		

Safety Requirements for Abrasive Sanding Machines

Abrasive sanding can be hazardous to operators and bystanders. Sanding sparks, chips and dust particles thrown off by the sanding disc can cause serious injury if contacted or inhaled. To avoid such injuries you must comply with the following safety requirements:

1. Always wear protective eyewear when operating machinery. Eye wear shall be impact resistant, safety glasses with side shields which comply with ANSI Z87.1. Use of eye wear which does not comply with ANSI Z87.1 specifications could result in severe injury from the breakage of the eve protection.

2. Wear leather safety gloves, arm guards, leather aprons and safety shoes.

3. A dust collection system is recommended, The operator should also wear a dust mask at all times.

4. Additional precautions may be necessary for sanding materials which are flammable or have other hazardous properties. You should always consult the manufacturer of such materials for instructions on sanding and handling. 5. Do not force or jam the workpiece into the sanding disc. 6. Before sanding, always allow the motor to come up to operating speed, then check the sanding disc for wobble, runout, or any unbalanced condition. If the disc is not operating accurately and smoothly, immediately stop the motor and make repairs before attempting any sanding operations.

7. Abrasive discs must be stored in a controlled environment area. Relative humidity should be 35% to 50% and the temperature should be between 60° and 80° Fahrenheit. Failure to do so could cause premature disc failure.

8. Examine the face of the sanding disc carefully. Excessive sanding that wears down to the backing material can tear the disc. Never use a disc which shows backing, nicks or cuts on the surface or edge or damage due to creasing or poor handling.

9. When installing a new disc, be certain the disc is accurately centered on the drive wheel. Failure to do so could cause a serious unbalanced condition.

10. Always present the workpiece to the wheel while resting the workpiece firmly on the table. Failure to do so could result in damage to the workpiece or throwing of the workpiece off the wheel.

11. Safety shoes which comply with ANSI Z41.1 should be worn.

12. Personal hearing protection such as ear plugs or ear muffs should be used to protect against the effect of noise exposure.



Figure A

Figure B





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Operating Instructions

These sanders can be used to remove stock from a wide variety of machinable materials. Different materials require different grit types and grades to achieve the desired stock removal rate and surface finish. Please consult with your abrasive materials supplier for specific recommendations on the correct grit material and grade required for your specific needs.

When removing stock from soft materials (wood, plastic, etc.) these machines are typically called "sanders." When removing stock from hard materials (cast iron, steel, etc.) they are referred to as "grinders". The word "sander" is used, more-or-less consistently, throughout this manual. It refers to the machines and not the type of abrasive finishing being performed.

Before operating your sander, please read the basic instructions on safe machine usage on the preceding two pages.

Belt Sander

The sanding belt must be in good condition, at proper tension, and tracking correctly, before doing any sanding, grinding or other abrasive machining operations. Refer to the section on *Track Mechanism Maintenance* if you have any problems with belt tension or tracking.

Adjusting the Belt Sander Table

You can tilt the table in a range between 20° upward and 45° downward. A single locking handle on the side of the table is used to lock and unlock the table to permit adjustment.

There are two positive lock stop positions: at 90° (that is, at a right angle to the platen) and at 45° downward (essentially $90^{\circ} + 45^{\circ}$ or 135° total to the platen.)

To Tilt the Belt Sander Table:

1. Unlock the locking handle on the side of the table.

Using the pointer and scale, set the angle to any required angle between 20° upward and 45° downward.
 Lock the lock handle.

To Tilt the Table to Exactly 45°:

- 1. Flip out the stop bracket (see Figure 20).
- 2. Unlock the locking handle.
- 3. Move the table until it contacts the stop bracket.
- 4. Lock the table lock handle.

CAUTION: NEVER ADJUST THE TABLE ANGLE WHILE THE SANDER IS RUNNING. ALWAYS TURN THE MOTOR OFF BEFORE ADJUSTING THE TABLE ANGLE.



Figure 1: Locking handle for belt table

Using the Indexing Lock Handle

The lock handle is spring loaded and can be repositioned on its shaft to permit easy locking and unlocking.

To Reposition the Handle:

- 1. Pull outward against its spring.
- 2. Rotate the handle to the position you require.

3. Release the handle and its spring will return it to the correct operating position.

Adjusting the Belt Sander Arm

The arm which holds the sanding belt can be positioned at a full vertical position, a full horizontal position, or at any angle in between which is convenient to the type of sanding you are doing.

A positive stop mechanism is used to permit quick adjustment to the vertical or horizontal positions.

To Adjust to Vertical:

1. Unlock both of the lock bolts. These are located under the arbor cover.

- 2. Move the arm to vertical until it contacts its stop.
- 3. Tighten both of the lock bolts, and replace arbor cover.

To Adjust to Horizontal:

1. Unlock both of the lock bolts.

2. Move the arm to horizontal until it contacts its stop. (See Figure 3.)

3. Tighten both of the lock bolts and replace arbor cover.

To Adjust the Arm to Any Angle Between Vertical and Horizontal:

- 1. Unlock both of the lock bolts.
- 2. Use a machinist's protractor and level to set the arm to the required angle.
- 3. Tighten both of the lock bolts and replace arbor cover.



Figure 2: Lock bolts for belt arm



Figure 3: Arm at horizontal -- note that the table is removed. The table may be removed or left in position, and may also be set to any angle to allow horizontal sanding of various angles.





Figure 4: Disc sander table adjustment

Adjusting the Disc Sander Table

1. Unlock the two locking knobs underneath the table at each end. (See Figure 4.)

Using the pointer and scale, set the angle to any required angle between 20° upward and 45° downward.
 Lock the two locking knobs underneath the table.

CAUTION: NEVER ADJUST THE TABLE ANGLE WHILE THE SANDER IS RUNNING. ALWAYS TURN THE MOTOR OFF BEFORE ADJUSTING THE TABLE ANGLE.

Use of the Miter Gauge

The miter gauge can be used on either the disc or belt surfaces to sand accurate angles on workpieces. When using the gauge, alone, you sand a single angle. However, by tilting the table and using the miter gauge in combination with the table tilt, it is possible to sand compound angles, as well.

When grinding a compound angle you should always check the accuracy of your setup by sanding a piece of scrap material before doing any finish sanding on the actual workpiece.

1. Set the angle you wish to sand using the scale on the miter gauge.

2. Tighten the miter gauge securely so the miter reference surface will not move while you are sanding.

3. Place the workpiece against the miter reference surface and slide it along the reference surface and into the sanding disc or belt. The basic method is shown in Figure 5, below.



Figure 5: Use of the miter system

Maintenance

Belt Replacement

1. Disconnect the power to the machine to prevent accidental start-ups. If the machine is plugged into an outlet, unplug it. If the machine is hardwired to a branch circuit with a junction box, remove the fuse or trip the circuit breaker to the branch.

- 2. Remove the lock knob and top cover (See Figure 6).
- 3. Remove the side guard and table.

4. Release the belt tension by turning the tension handle in a counterclockwise direction (See Figure 7). If the handle is difficult to turn, perform *Track Mechanism Maintenance* according to the instructions following this section.

5. Remove the belt.

6. Check the drums and platen for scoring or signs of wear which might require service or replacement.

7. Check the height of the platen with a straight edge. If it is not 1/32 in. above the drums, adjust it according to the instructions in *Platen Replacement or Adjustment* in the *Machine Setup* section of this manual.

8. Check the drums for looseness which might cause tracking problems. Correct any loose condition by tightening or replacing any parts as required.

9. Slip the new belt onto the drums and platen.

10. Adjust the tension handle clockwise until the belt is flat against the platen and there is no curling or buckling of the belt in the middle.

11. Turn the drums by hand to see if the belt tracks moreor-less true. JUST BECAUSE THE OLD BELT TRACKED CORRECTLY DOES NOT MEAN THE NEW BELT WILL. Always check the tracking when replacing a belt.

12. To adjust the tracking:

12.1. Plug the machine back into the outlet or reestablish power in the branch.

12.2. Loosen the tracking lock knob.

12.3. Jog the motor on and off as necessary to observe the tracking, and turn the tracking knob as necessary to make the belt track in the center of the platen and drums. Turn the tracking knob clockwise to move the belt toward the right and counterclockwise to move the belt toward the left.

12.4. When the belt seems to be tracking correctly, turn the motor on and leave it running while fine tuning the tracking.

12.5. Lock the tracking lock knob.

12.6. When the lock knob is secure, turn the power off and disconnect the machine from the outlet or branch as in Step 1, above.

13. Replace the table, side guard, top cover and lock knob by reversing steps 3 and 2, above.

14. If you have not already done so, reconnect the power to the machine and return it to service.



Figure 6: Top cover components



Figure 7: Belt adjustment components (Note top cover removed for removal and replacement of belt.)

Track Mechanism Maintenance

While the use of a dust collection system can extend service intervals, an accumulation of dust will almost certainly require periodic cleaning of the tracking mechanism. The more continuous the use of the machine, the more frequently this maintenance should be performed.

As mentioned in the preceding section, the need for required maintenance is often indicated by difficulty in adjusting the tension/tracking mechanism.

Maintenance:

1. With the belt removed according to the instructions in *Belt Replacement*, pull out the upper tracking system and clean away all built up material in the upper part of the bracket casting.

2. Take the two keys off of the idler pin bracket, wipe off, and re-grease.

3. Reverse the above steps to make the machine ready for reinstallation of the belt according to the *Belt Replacement* instructions.

Installing Abrasive Discs

1. Disconnect the power to the machine to prevent accidental start-ups.

2. Peel off the old abrasive disc.

3. Clean the drive disc surface using naptha or a similar nonflammable solvent that will dry film-free.

4. Pull the protective backing half off the new abrasive disc.

5. Position the new disc carefully so it is centered accurately on the drive disc. (See Figure 8.)

6. When accurately centered, remove the rest of the protective backing and press the abrasive disc firmly against the drive disc so complete adhesive contact is made.

7. Reconnect the power to the machine.



Figure 8: Installing new abrasive disc

Replacing the V-Belt.

1. Disconnect the power to the machine to prevent accidental start-ups.

- 2. Remove the belt guard (Figure 9) and disc table
- 3. Remove the table tilt lock knob (Figure 10).



Figure 9: Removing belt guard



Figure 10: Disc table lock knob

3. Loosen the four motor bolts so the motor can slide on its plate.

4. Remove the belt from the motor pulley.

5. Remove three of the base mounting bolts, then loosen the fourth bolt slightly. This allows you to rotate the machine on the machine base (See Figure 11).

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Figure 11: Rotating the machine casting to remove the disc guard bolts

6. Remove the two bolts, underneath the machine casting, that secure the disc guard to the casting (See Figure 11).



Figure 12: Locating the set screws that secure the disc to the arbor

5. Through the hole in the disc guard casting, locate and remove the TWO set screws that secure the drive disc to the arbor. One set screw clamps on the arbor key and the other clamps on the arbor shaft, itself. Be sure you loosen both of them.



Figure 13: Removing the guard and drive disc, together.

6. Slide the disc and its guard off of the machine, together (See Figure 13).

- 7. The V-belt can now be removed from the drive arbor.
- 8. Install the new belt on the top pulley.
- 9. Slide the disc and guard back into position.
- 10. Reinstall the disc guard bolts underneath the table.

11. Position the drive disc so that it is no more than 1/16 inch away from the table, then tighten BOTH of the set screws by inserting the hex wrench through the hole in the disc guard casting.

12. Rotate the machine back onto its base and secure it with all four mounting bolts.

13. Install the belt over the bottom pulley.

14. Tension the belt so that when pressed, in the middle of its travel, it has no more than one belt's width of movement -- then tighten the four motor bolts.

15. Observe the alignment of the motor pulley and arbor pulley. If necessary, correct their alignment by shifting the motor slightly on its mount (which involves loosening and retightening the mounting bolts and checking tension) or by shifting the pulley slightly on the motor shaft (which involves loosening the motor pulley set screw and sliding the pulley into alignment) or by moving the arbor pulley slightly on its shaft (See Figure 14).

16. When the pulleys are accurately aligned, reinstall the belt guard.

17. Reestablish electrical power to the machine.



Figure 14: Loosening pulley set screws to allow the adjustment of pulley on arbor shaft.

Machine Setup

Basic Setup

1. Position the machine where it will be located on the shop floor. When positioning the machine, consider the type of work which will be done on it so you allow sufficient room not only for the workpieces, but also for service to the machine.

2. Open the door in the base of the machine and, using the holes in the base as a template, mark the floor for the position of the hold-down bolts.

3. Move the machine to expose the hold-down bolt marks and install anchors for the hold-down bolts.

4. Put the machine back over the hold-down anchors and bolt the machine securely to the shop floor. THIS MUST BE DONE FOR SAFE OPERATION OF THE MACHINE.

5. Establish an electrical service connection to the machine. This will vary according to the model purchased. ALL ELECTRICAL CONNECTIONS SHOULD BE MADE BY A QUALIFIED ELECTRICIAN WHO IS FAMILIAR WITH YOUR STATE AND LOCAL CODES. Many models of these machines make use of high voltages which pose a significant risk of *serious injury or DEATH* if proper knowledge and precautions are not used. Electrical instructions are included in the *Electrical* section of these *Machine Setup* instructions.

6. Machines with belts are shipped with the belts in slack condition. During the electrical hookup phase of machine setup, the belt will have to be tightened and checked for tracking. See the *Belt Replacement* section for instructions on this procedure.

Disc Table Angle Adjustment

1. Disconnect the power to the machine to prevent accidental start-ups.

2. Loosen the table locking knobs on either end of the table.

3. Using a machinist's square against the table and disc, set the table at exactly 90° to the disc (See Figure 15).

4. Tighten the table locking knobs.

5. Check the pointer. If it is not exactly on the zero mark, loosen the pointer attaching screw, adjust the pointer, and retighten the screw.

6. Reconnect the power to the machine.



Figure 15: Using a square to check the disc table scale.

Disc Table Miter Parallelism Adjustment

1. Disconnect the power to the machine to prevent accidental start-ups.

2. Set the table angle to zero.

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3. Place a scale or adjustable machinist's square against either the left or right edge of the disc face and measure the distance to the miter slot edge (See Figure 16).

4. Move the measuring device to the opposite edge of the disc and measure the distance to the miter slot.

5. Adjust the table by loosening the four attachment screws under the table, then move the table until the distance between the miter slot and the disc is equal on both sides (See Figure 17).

- 6. Tighten the four attachment screws.
- 7. Reconnect the electrical power to the machine.



Figure 16: Using an adjustable square to set the table parallelism.



Figure 17: Table attachment screws -- loosen to adjust miter groove parallelism.

Disc Table Gap Adjustment

1. Using a scale, check the gap between the edge of the table and the face of the disc. It should be very close to 3/32 inch. If it is much more or less than that distance, adjust it as follows:

2. Disconnect the electrical power to the machine.

3. Using the access hole on the top of the disc guard, locate and loosen the two set screws that secure the disc to the shaft.

4. Slide the disc in or out along its shaft until the table-todisc gap is 3/32 inch (See Figure 18).

- 5. Tighten both set screws.
- 6. Reconnect the electrical power to the machine.

Figure 18: Table-todisc gap measurement.



Belt Table Miter Slot Parallelism Adjustment

1. Disconnect the power to the machine to prevent accidental start-ups.

2. Set the table angle to zero.

sides.

 Place a scale or adjustable machinist's square against either the left or right edge of the belt or platen and measure the distance to the miter slot edge (See Figure 19).
 Move the measuring device to the opposite edge of the belt or platen and measure the distance to the miter slot.
 Adjust the table by loosening the three attachment screws under the table, then move the table until the distance between the miter slot and belt or platen is equal on both

- 6. Tighten the three attachment screws.
- 7. Reconnect the electrical power to the machine.

Belt Table Angle Adjustment

1. Loosen the table locking handle and tilt the table upward to about 15°.

2. Flip out the stop bracket (See Figure 21).

3. Lower the table until its adjusting screw touches the stop bracket.

4. Place a machinist's square against the table and belt or platen.

 If adjustment is required, turn the adjusting screw (Figure 20) until the table is exactly square to the platen.
 Check the pointer. If it is not on 0°, loosen the pointer screw and adjust the pointer until it is on 0°.

7. Tighten the pointer screw.

8. Loosen the table lock handle and tilt the table until its stop contacts the 45° stop position.

9. Using a machinist's protractor set on 135° (90° + 45°) adjust the screw until the table and platen are in correct adjustment. DO NOT reset the pointer after this operation.







Figure 19: Using an adjustable square to check and set miter slot parallelism on the belt table.

Figure 20: Location of adjustment (socket head) screws and pointer attachment screw for table angle adjustment.

Figure 21: Locations of stop lugs and stop bracket for zero and 45° table positions.

Adjusting or Replacing the Platen

1. Disconnect the electrical power to the machine to prevent accidental start-ups.

2. Remove the top cover, side guard and belt as outlined in *Belt Replacement*.

 Remove the table by unscrewing the locking handling and lifting the complete table assembly, from the machine.
 If you are replacing the platen, remove the three screws that hold it to its mount -- then install the new platen and replace the mounting screws finger tight.

5. If you are only adjusting the platen, loosen the three mounting screws to allow adjustment.

6. Using a straight edge as shown in Figure 22, adjust the platen height until it is 1/32 inch higher than the crown of both the drive and idler drums.

7. Tighten the platen adjustment screws.

8. Reinstall the table and belt.

9. Check and adjust, if necessary, the tracking of the belt according to instructions in *Belt replacement*.

10. Reinstall the guards and covers.

11. Check and adjust the table angles and miter slot squareness, according to table adjustment instructions in this manual.

12. Reconnect the electrical power to the machine.

Adjust platen until there is a 1/32 inch gap at both drums Straight edge Platen

Figure 22: Method for adjusting height of platen above drive and idler drums.

Electrical

Caution: Wilton sanders are available in a wide variety of electrical configurations to meet the needs of the purchaser with respect to power available and compliance with electrical codes. Each machine is tested at the factory for operation before shipment and the power cord is tagged with the power requirements for the machine, as shipped. *HOWEVER, before attempting any electrical hookup, you should be certain:*

1. The electrical characteristics of the service branch match the requirements of the motor.

2. The service branch is equipped with wires of the required gauge or size.

3. The branch circuit intended for the machine is protected with a time delay fuse or circuit breaker with a rated amperage just slightly greater than the full load current of the motor.

MOTOR AMPERAGE full load current

Phase	Voltage	Amperage
1	115	20
1	220	10
3	220	5.2
3	440	2.6

CAUTION: All electrical service work on your Wilton sander should be performed by a qualified, licensed electrician who is familiar with all safe standard electrical installation practices and all applicable electrical codes. This includes local electrical codes which may affect the connection and operation of the Wilton sander in your specific manufacturing operation.

Single Phase Electrical Hookup

When connecting your machine to single phase power, you may be connecting to either 115 or 230 volts, depending upon the motor type provided. Local codes may, or may not, permit the use of a plug type of connection for your machine. Where a plug connection is permitted, the following installation practices must be followed:

1. The plug used must be a grounding type of plug. That is, on a 115 volt single phase connection, the plug must be a three-prong plug with two flat, parallel blades for the power wires and a single rounded or U-shaped prong for the ground connection. On 230 volt single phase connections, the lug must be a three prong plug with two flat blades in tandem to carry the current, and a third round or U-shaped prong for the ground connection.

2. The service branch to which the plug is connected must be a branch with a separate ground wire so the grounding prong of the plug can be connected to ground effectively.

Note: Local electrical codes in many jurisdictions DO NOT ALLOW THE USE OF PLUG TYPE CONNECTIONS FOR SINGLE PHASE POWER WHEN THE MACHINE IS USED IN A COMMERCIAL OR INDUSTRIAL ESTABLISHMENT.

In these cases you must connect your machine to the service branch using a hardwired junction box connection.

Motor Rotation

The motor should be turning counterclockwise, the belt sander should be moving downward, and the disc sander should be turning clockwise. These motors are wired at the factory for correct rotation.

Voltage Conversion

Single phase machines are pre-wired for 115V or 230V per customer request. If it becomes necessary to change the voltage, remove the back cover from the base and place the machine on its side. Remove the terminal cover from the motor. Rewire the motor according to the motor connection diagram, (Figure 32 or, Figure 33). Different electrical plugs are required depending on which voltage you select. This completes the voltage conversion process.

Circuit Protection

Where the service branch is protected with a fuse or circuit breaker that has too high a value to offer protection to the motor supplied, a fuse or circuit breaker box should be used at the point where the machine connection is made and the time delay fuse or circuit breaker should be a value just slightly higher than the maximum load current draw.

Three Phase Electrical Hookup

1. Be certain the power to the branch you are connecting is off and locked out, so power cannot be reestablished accidentally.

2. Connect the ground wires. These wires will be either green, or green with a white stripe.

3. Connect the remaining three cable wires to the three power wires in the service branch.

4. Reestablish the power to the branch.

Motor Rotation

The motor should be turning counterclockwise, the belt sander should be moving downward and the disc sander should be turning clockwise. If this is the case, the machine can be considered wired correctly. If the motor is not turning in the correct direction, take the following corrective action:

1. Disconnect power in the branch again and be certain it cannot be accidentally turned on while you correct the wiring.

2. Reverse ANY TWO of the power wires to the machine.

3. Reestablish the power to the machine.

4. Turn the machine on. The motor should now be turning in the correct direction.

Voltage Conversion

Three phase machines are pre-wired for 230V or 460V per customer request. If it becomes necessary to change the voltage, remove the back cover from the base and place the machine on its side. Remove the terminal cover from the motor. Rewire the motor according to the motor connection diagram, Figure 32 or, Figure 33). This completes the voltage conversion process

Circuit Protection

Where the service branch is protected with a fuse or circuit breaker that has too high a value to offer protection to the motor supplied, a fuse or circuit breaker box should be used at the point where the machine connection is made and the time delay fuse or circuit breaker should be a value just slightly higher than the maximum load current draw.

Troubleshooting

Fault	Probable cause	Suggested remedy
Motor will not run	 Motor is defective Voltage is too low Switch is defective Branch circuit fuse is blown or the circuit breaker is tripped Branch is shut down for service 	 Replace the motor. Check the power supply for the proper voltage. Replace the switch. Determine the reason for the blown fuse or tripped circuit breaker then replace the fuse or reset the breaker. Check all personnel and machines on the branch to be certain someone has not shut down the branch for service. DO NOT replace the fuse or reset the breaker unless you are certain no personnel are working on the machines, wires or con trols in the circuit.
	6. Open circuit in the wiring	6. Inspect all the wire connections for loose or open connections.
Motor stalls easily	 Low voltage. Fuse is blown (three phase motors only.) Improper wiring. 	 Check for proper voltage at the motor correct as necessary. Replace the blown fuse. Check for proper connections.
Abrasive belt or disc slows down although motor keeps running at working speed	1. Belt is slipping	1. Replace the belt.
Poor tracking	 Tracking is out of adjustment. Too much belt tension. Not enough belt tension. Belt is jointed improperly. Lack of crown on the drive roller. Worn bearings. 	 Adjust the belt tracking. Loosen the tension until the belt is just taut. Tighten the tension until the belt is more taut. Check the belt for an irregular seam or shape. Remove the belt and put a straight edge along the drive roller. There should be a slight crown (high spot toward the middle of the roller.) If the crown has worn away, replace the roller. Check all the bearings for excessive heat or loose shafts. Replace if necessary.
Unsteady belt	1. Slack in the abrasive belt.	1. Adjust the belt tension.
Short belt life	 Excessive pressure applied while grinding. Working on only one side of the belt or only in one area of the disc. Incorrect abrasive material or grit size. 	 Allow the belt to do the cutting. Excessive pressure only dulls the grit and removes from the cloth. Use all the surface areas of the abrasive cloth. Check with your abrasives supplier for re ommendations on the type and coarse ness of the abrasive required for the workpieces you are sanding or grinding.

CAUTION: For all of the electrical faults and corrections in the above table Wilton recommends the use of a qualified and licensed electrician for all circuit tracing, diagnosis and repair.

Electrical Schematics JIC Packages



Figures 25 and 26, below: Wiring diagrams for 230 and 460 VAC with controller with warning light.

Figure 27 and 28, below: Wiring diagrams for 230 and 460 VAC with push button switch.





Electrical Schematics Standard 1 phase and 3 phase machines



Figure 30: Schematic diagram for single phase motor.



Figure 32: Motor connection diagram for 1-phase motor.



Figure 31: Schematic diagram for 3-phase motor.



Figure 33: Motor connection diagram for 3-phase motor.

Replacement Parts

This section provides exploded view illustrations that show the replacement parts for the Model 4400A, 4300A, 4200A Disc, Belt, and Combination Disc/Belt Sanders. Also provided are parts listings that provide part number and description. Item numbers shown on the illustration relate to the item numbers in the facing parts listing.

Order replacement parts from:

WMH Tool Group

2420 Vantage Drive Elgin, Illinois 60123 Phone: 800-274-6848 www.wmhtoolgroup.com

Identify the replacement part by the part number shown in the parts listing. Be sure to include the model number and serial number of your machine when ordering replacement parts to assure that you will receive the correct part.

Exploded View – Model 4200A Belt and Disc Sander Assembly



Ref #	Part No.	Description	Qty.	Ref #	Part No.	Description	Qty
1	5508427	Bracket	1	56	5508455	Deflector Plate	1
2	5511833	Square Nut, M10	1	57	TS-2361051	Lock Washer, M5	2
3	50510801	Spring	1	58	TS-1513021	SHFS, M5 x 12	2
4	5051091	Sleeve	1	59	5508454	Drive Drum Guard	1
5	5051131	Collar	1	60	5508456	Dust Deflector	1
6	5508431	Shaft with Collar	1	61	TS-2361101	Lock Washer, M10	3
7	5051151	Сар	1	62	TS-1491021	Hex Cap Screw, M10 x 20	3
8	TS-2361051	Lock Washer, M5	2	63	5508457	Platen	1
9	TS-1513051	SHFS, M5 x 25	2	64	TS-1514011	SHFS, M6 x 12	2
10	5051721	Hand Wheel	1	65	5051601A	Side Guard	1
11	5511818	FH Screw, M5 x 6	4	66	TS-1540231	Hex Nut, M24	1
12	TS-1550071	Flat Washer, M10	2	67	9058121	Lock Washer, Ext., M24	1
13	5508432	Tilting Table	1	68	5051981	Spacer	1
14	5508450	Hand Knob	4	69	5051971A	Drive Drum	1
15	5508429	Belt Adj. Knob, M10	1	70	5508458	Clamp Ring	1
16	5511824	Drive Screw, M2 x 5	5	71	4200A-071	Spacer	1
17	5508437	Stop Lock	1	72	5051031	Tension Lever Pin	1
18	5511828	Groove Pin, M5 x 45	1	73	5051021	Belt Tension Lever	1
19	5051351	Tilting Scale	1	74	BB-6202ZZ	Ball Bearing, 6202ZZ	2
20	TS-1523011	SHSS, M6 x 6	2	75	5508461	Idler Drum Shaft with	1
21	5511827	Groove Pin, M4 x 8	2			Lock Nut	1
22	5051331	Segment	1	76	TS-2342121	Hex Nut, Nylon Lock M12	2
23	5511725	4200 Arbor Pulley	1	77	5508460	Bearing Lock Nut	1
24	TS-1504061	SHCS, M8 x 30	4	78	5051591A	Idler Drum Guard	1
25	TS-2361081	Lock Washer, M8	4	79	5508462	Stud	3
26	5508433	Trunnion	1	80	5508463	Clamp Bar	2
27	TS-1550061	Flat Washer, M8	9	81	5052121	Bottom Guard	1
28	TS-2361081	Lock Washer, M8	9	82	TS-2361061	Lock Washer, M6	4
29	TS-1490041	Hex Cap Screw, M8 x 25	3	83	5052061B	Idler Drum Spacer	2
30	5508435	Stud, M10	1	84	5508459	Idler Pin Bracket	1
31	TS-1550071	Flat Washer, M10	4	85	TS-0367061	Roll Pin, 1/4" x 1-1/4"	2
32	5508436	Acorn Nut and Handle	1	86	5052001	Block	2
33	TS-2361061	Lock Washer, M6	3	87	5052061A	Idler Drum	2
34	TS-1482031	Hex Cap Screw, M6 x 16	3	88	5508434	Pointer	1
35	5508439	Preload Bushing, M54	1	89	5508451	Clamp with Pins	2
36	BB-6205ZZ	Ball Bearing, 6205ZZ	1	90	4200A-090	Roll Pin, M6 x 45	4
37	5508438	Bearing Housing	1	91	5508453	Disc Guard	1
38	TS-2210951	Hex Cap Screw, M10 x 140	2	92	TS-2239551	SHCS, M10 x 55	2
39	5051421	Key, 5 x 5 x 70	1	93	5051741	Pointer	1
40	5508441	Drive Shaft	1	94	TS-1523031	SHSS, M6 x 10	2
11	5051451	Key, 5 x 5 x 35	1	95	5051641	Disc, Aluminum	1
12	4200A-042	Key, 5 x 5 x 55	1	96	5051631	Garnet Disc	1
43	BB-6204ZZ	Ball Bearing, 6204ZZ	1	97	5051681	Trunnion	2
14	5051471	Retaining Ring, S20	1	98	TS-1490041	Hex Cap Screw, M8 x 25	4
15	VB-A59	V-Belt, A59	1	99	5508449	Table	1
46	TS-2245081	SHFS, M5 x 8	4	100	5051701	Tilting Table Scale	1
47	5508444	Belt Guard Assembly	1	101	5052271	Deluxe Miter Gauge	1
48	4200A-048	Warning Label	1	102	TS-1550071	ů,	2
19	TS-1540071		5	103		Hex Cap Screw, M6 x 17	4
50	5508446	Stop Pin	1	104	4200A-104	Label, Name	1
51	5508447	Base	1	105	4200A-105	Label, Direction	2
52	TS-2210801	Hex Cap Screw, M10 x 80	4	106	TS-1482081		2
53	5515292	Flat Washer, M10	8	107	TS-1540041		2
54	TS-2361101	Lock Washer, M10	6	108	TS-1523021		1
55	5051841	Garnet Belt	1	109	4200A-109	Label, Warning	1
-	· · · · · · ·			110	TS-152704	Allen Wrench, 4mm	. 1



Parts Listing – Model 4300A Belt Sander

Ref #	Part No.	Description	Qty.	Ref #	Part No.	Description	Qty.
1	5508427	Bracket	1	52	TS-2210801	Hex Cap Screw, M10 x 80	4
2	5511833	Square Nut, M10	1	53	TS-1550071	Flat Washer, M10	8
3	5051081	Spring	1	54	TS-2361101	Lock Washer, M10	6
4	5051091	Sleeve	1	55	5051841	Garnet Belt	1
5	5051131	Collar	1	56	5508455	Deflector Plate	1
6	5508431	Shaft with Collar	1	57	TS-2361051	Lock Washer, M5	2
7	5051151	Сар	1	58	TS-1513021	SHFS, M5 x 12	2
8	TS-2361051	Lock Washer, M5	2	59	5508454	Drive Drum Guard	1
9	TS-1513051	SHFS, M5 x 25	2	60	5508456	Dust Deflector	1
10	5051721	Hand Wheel	1	61	TS-2361101	Lock Washer, M10	3
11	5511818	Flat Head Screw, M5 x 6	4	62	TS-1491021	Hex Cap Screw, M10 x 20	3
12	TS-1550071	Flat Washer, M10	1	63	5508457	Platen	1
13	5508432	Tilting Table	1	64	TS-1514011	SHFS, M6 x 12	2
14	5508450	Hand Knob	2	65	5051601A	Side Guard	1
15	5508429	Belt Adj. Knob, M10	1	66	TS-1540231	Hex Nut, M24	1
16	5511824	Drive Screw, M2 x 5	3	67	9058121	Lock Washer, Ext., M24	1
17	5508437	Stop Lock	1	68	5051981	Spacer	1
18	5511828	Groove Pin, M5 x 45	1	69	5051971A	Drive Drum	1
19	5051351	Tilting Scale	1	70	5508458	Clamp Ring	1
20	TS-1523011	SHSS, M6 x 6	2	71	4200A-077	Idler Drum Shaft	1
21	5511827	Groove Pin, M4 x 8	2	72	5051031	Tension Lever Pin	1
22	5051331	Segment	1	73	5051021	Belt Tension Lever	1
23	5511725	4200 Arbor Pulley	1	74	BB-6202ZZ	Ball Brearing, 6202ZZ	2
24	TS-1504061	-	4	75	5508461	Idler Drum Shaft with	1
25	TS-2361081		4			Lock Nut	
26	5508433	Trunnion	1	76	TS-2342121	Hex Nut, Nylon Lock, M12	2
27	TS-1550061	Flat Washer, M8	3	77	5508460	Bearing Lock Nut	1
28	TS-2361081	Lock Washer, M8	3	78	5051591A	Idler Drum Guard	1
29	TS-1490041	Hex Cap Screw, M8 x 25	3	79	5508462	Stud	1
30	5508435	Stud, M10	1	80	5508463	Clamp Bar	2
31	TS-1550071	Flat Washer, M10	4	81	5052121	Bottom Guard	1
32	5508436	Acorn Nut and Handle	1	82	TS-2361061	Lock Washer, M6	4
33	TS-2361061	Lock Washer, M6	3	83	5052061B	Idler Drum Spacer	2
34	TS-1482033	Hex Cap Screw, M6 x 18	3	84	5508459	Idler Pin Bracket	1
35	5508439	Reload Bushing, M54	1	85	TS-0367061	Roll Pin, 1/4" x 1-1/4"	2
36	BB-6205ZZ	Ball Bearing, 6205ZZ	1	86	5052001	Block	2
37	5508438	Bearing Housing	1	87	5052061A	Idler Drum	2
38	TS-2210951	Hex Cap Screw, M10 x 140	2	88	5508434	Pointer	1
39	5051421	Key, 5 x 5 x 70	1	89	5052271	Deluxe Miter Gauge	1
40	5508442	Drive Shaft	1	90	4300A-090	Label, Name	1
41	5051451	Key, 5 x 5 x 35	1	91	4200A-105	Label, Direction	1
42	TS-1482034	Hex Cap Screw, M6 x 19	4	92	TS-1482081	Hex Cap Screw, M6 x 40	2
43	BB-6204ZZ	Ball Bearing, 6204ZZ	1	93	TS-1540041	Hex Nut,Full, M6	2
44	5051471	Retaining Ring, S20	1	94	4300A-094	Label, Warning	1
45	VB-A59	V-Belt, A59	1	95	TS-152704	Allen Wrench, 4mm	1
46	TS-2245081	SHFS, M5 x 8	4				
47	5508445	Belt Guard Assembly	1				
48	4200A-048	Label, Warning	1				
49	TS-1540071	Hex Nut, Full, M10	5				
50	5508446	Stop Pin	1				
51	5508448	Base	1				



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Exploded View – Model 4400A Disc Sander Assembly

Parts Listing – Model 4400A Disc Sander Assembly

Ref #	Part No.	Description	Qty.
1	5508427	Bracket	1
2	TS-1523011	SHSS, M6 x 6	2
3	5511725	4200 Arbor Pulley	1
4	TS-1504061	SHCS, M8 x 30	4
5	TS-2361081	Lock Washer, M8	4
6	5508443	Drive Shaft	1
7	5051451	Key, 5 x 5 x 35	1
8	4200A-042	Key, 5 x 5 x 55	1
9	BB-6204ZZ	Ball Bearing, 6204ZZ	1
10	5051471	Retaining Ring, S20	1
11	VB-A59	V-Belt, A59	1
12	5511818	Pan Head Screw, M5 x 6	4
13	5508444	Belt Guard Assembly	1
14	BB-6205ZZ	Ball Bearing, 6205ZZ	1
15	5508439	Locking Bushing	1
16		Flat Washer, M8	1
17		Hex Cap Screw, M8 x 20	1
18	4400A-018	Glue Bushing	1
19	4200A-105	Label, Direction	1
20	4400A-020	Label, Warning	1
21	4400A-021	Label, Warning	1
22		Hex Nut, Full, M10	4
23		Hex Cap Screw, M10 x 80	4
24		Flat Washer, M10	8
25	5508447	Base	1
26		Flat Washer, M10	2
27		Lock Washer, M10	4
28	5508450	Hand Knob	2
29	5508451	Clamp with Pins	2
30	4200A-090	Roll Pin, M6 x 45	4
31	5508462	Stud	2
32	5508453	Disc Guard	1
33		Lock Washer, M10	2
34		SHCS, M10 x 55	2
35	5051741	Pointer	1
36		SHFS, M6 x 8	1
37	TS-1523031		2
38	5051641	Disc, Aluminum	1
39	5051631	Garnet Disc	1
40	5508449	Table	1
40	5051681	Trunnion	2
41	TS-2361081	Lock Washer, M8	2 4
42		-	4
43 44	TS-1490041	Hex Cap Screw, M8 x 25	
44	5051701	Tilting Table Scale	1 2
45 46	5511824	Drive Screw, M2 x 5	2 1
40	5052271	Deluxe Miter Gauge	I

Exploded View - Base Assembly (All Models)



Ref #	Part No.	Description	Qty.
301	5511743	Enclosure	1
302	TS-1540081	Hex Nut, M12	4
303	5511745	Adjustable Mount	4
304	5511729	Large Cover	1
305	5052431	Motor Mounting Plate	1
306	TS-1490031	HHCS, M8 x 20	7
307	TS-1550061	Flat Washer, M8	7
308	TS-1540061	Hex Nut, M8	7
309	5514650	1.5 HP 115/230V 1 Ph.	1
309	5514651	1.5 HP 115/230V 1 Ph.	1
310	TS-1550061	Flat Washer, M8	4
311	TS-1490011	HHCS, M8 x 12	4
312	TS-2361081	Lock Washer, M8	7
313	9133081	Power Cord	1
314	5514703	Switch Box	1
315	5511753	Tapping Bolt w/ Washer	2
316	5511754	Bushing	1
317	9139391	Switch	1
318	TS-2361081	Lock Washer, M8	4
319	TS-2360121	Flat Washer, M12	4

Ref #	Part No.	Description	Qty.
320	4200A-B320	Cover	1
321	4200A-B321	Pan Head Bolt w/ Flange	3
322	TS-1540041	Hex Nut, M6	3
323	TS-1540031	Hex Nut, M5	2
324	TS-0733203	Lock Washer, Ext., #10	2
325	4200A-B325	Pan Head Screw, M5 x 8	2
326	TS-2284082	Pan Head Screw, M4 x 8	2
327	TS-2361041	Lock Washer, M4	4
328	4200A-B328	Label, Name	1
329	TS-1533052	Pan Head Screw, M5 x 16	1
330	4200A-B330	Cord Clamp	1
331	TS-1540031	Hex Nut, M5	1
332	4200A-B332	Wiring Nut	3
333	TS-1550021	Flat Washer, M4	6
334	4200A-B334	Label, Voltage	1
335	4200A-B335	Switch Cover	1

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Dust Collection System (Optional)

Installation

Transport the shipping container to the installation site. Unpack the dust collection system and check for damage. Contact the carrier if damage is found. Open the installation kit (refer to **Optional Accessories** in the parts listing for installation kits). Install the cover and debris collection drawer if removed. Slip a hose clamp over the 3-inch vacuum hose. Slip the hose on the inlet duct. Move the clamp over the duct to secure the hose.

Repeat the procedure to connect the hose to the outlet duct on the grinding machine.

Electrical Connection

Refer to the *Dust Collection System Wiring Diagram* for wiring information. Connection to electrical power should be made by a qualified electrician. Observe local electrical codes when connecting the machine.

Operation

The dust collection system motor is started by setting the toggle switch on the motor to the ON position. Set the switch to OFF to shut down the dust collection system.

Maintenance

WARNING:

MAKE SURE YOU DISCONNECT THE ELECTRI-CAL POWER TO THE DUST COLLECTION SYS-TEM BEFORE PERFORMING MAINTENANCE. FAILURE TO DO SO MAY RESULT IN INJURY TO THE OPERATOR AND/OR MAINTENANCE PERSONNEL.

DO NOT OPERATE THE DUST COLLECTION SYSTEM WITH THE COVER REMOVED. INJURY TO FINGERS AND HANDS FROM THE FAN BLADES, AND INGESTION OF LOOSE FITTING CLOTHING INTO THE AIR INLET WITH RESULTANT INJURY IS ALSO POSSIBLE.

Cleaning

Periodically dispose of accumulated chips and debris from the chip drawer. Use a brush to loosen debris from internal surfaces. Use a vacuum cleaner to clean up the loosened debris.

Filter

Check for accumulation of debris. Replace the filter at intervals that you determine are appropriate for your shop environment and machine utilization.

Drawer Seal

Check the drawer seal periodically and replace if damaged or missing. Keep the seal in good condition to help maintain collection system efficiency.



Figure 1: Dust Collector Assembled View

Disassembly

Disassembly of the dust collection system is only required to replace the motor or the fan components. The motor switch, if failed, can be replaced without removal of the motor.

- 1. Remove the chip drawer (2) and cover (4) from the base (1).
- 2. Remove the filter cover (5) and filter (6). Replace the filter if required.
- 3. Remove five nuts (10) and lock washers (11) from the studs at the rear of the base (1).
- Remove four nuts (12) and lock washers (13) from the screws (14). Remove the screws (14) from inside the fan housings. Separate the motor support panel (9) (with fan and motor still attached) from the base (1).
- 5. Remove five nuts (17), lock washers (18) and the screws (19) that secure the fan housings together.
- 6. Using a flat bladed tool, separate the outer fan housing (16) from the inner fan housing (24).
- Using an Allen wrench, loosen the set screw (22). Remove the fan (21) from the shaft of the motor (25). Remove the key (23) from the motor shaft.
- Use a flat-bladed screwdriver to hold the flat head screws (28) (in inner fan housing). Remove four nuts (26) and lock washers (27) from the flat head screws (28) in the motor mounting lugs.

Assembly

Assembly is the reverse of disassembly. Observe the following during assembly:

- 1. Assemble the motor (25) and inner fan housing (24) on the rear panel; make sure the fan duct is facing downward.
- 2. Make sure the guard strap (20) is installed in the recesses in the fan duct.
- 3. Mate the fan housings (16 and 24). Turn the fan (21) by hand to check for rubbing. Adjust the fan as required.
- 4. Use a spare screw or a Phillips screwdriver to align the screw holes in the outer fan housing (16), spacer (15), and in the internal panel of the base (1).
- 5. With the screw holes aligned, install the support panel (9) on the five studs at the rear of the base (1).
- 6. Connect the electrical power and check the operation of the dust collection system.



Parts Listing – Model 5511885 Dust Collection System

Dof	Dort			Dof	Dort		
Ref.	Part	Description	0.1	Ref.	Part	Description	01
No.	Number	Description	Qty	No.	Number	Description	Qty
1	5514731	Base	1	19	5514748	Screw, Hex Head	5
2	5514732	Drawer, Chip	1	20	5514749	Strap, Guard	1
3	5514733	Seal, Tape	*AR	21	5514750	Fan	1
4	5514734	Cover	1	22	5514751	Screw, Set	1
5	5514735	Cover, Filter	1	23	5514752	Key	1
6	5514779	Filter	1	24	5514753	Housing, Inner Fan	1
7	5514736	Panel, Rear Foam	1	25	5514754	Motor	1
8	5514737	Panel, Side Foam	2	26	5514755	Screw, Hex Head	4
9	5514738	Panel, Motor Support	1	27	5514756	Seal, Tape	*AR
10	5514739	Nut, Hex	5	28	5514757	Switch, Motor	1
11	5514740	Washer, Lock	5				
12	5514741	Nut, Hex	4				
13	5514742	Washer, Lock	4				
14	5514743	Screw, Hex Head	4	Con	nection Kits		
15	5514744	Spacer	1	Refe	er to Wilton ca	atalog for appropriate coni	nection
16	5514745	Housing, Outer Fan	1			ng machine, or contact W	
17	5514746	Nut, Hex	5		stance.		
18	5514747	Washer, Lock	5				

Wiring Information - Dust Collection System



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