READ THIS FIRST

Model W1678 ***IMPORTANT UPDATE***

Applies to Models Mfd. Since 5/03 and Owner's Manual Revised 12/14



Phone #: (360) 734-3482 • Tech Support: techsupport@woodstockint.com • Web: www.woodstockint.com

We recently discovered the following mistakes in the owner's manual:

- Incorrect maximum lumber dimensions shown in Specifications and Overview in OPERATIONS.
- Drum and feed buttons located incorrectly on Wiring Diagram.

Aside from the information contained in this update, all other content in the owner's manual is applicable and MUST be read and understood for your own safety.

IMPORTANT: Keep this update with the owner's manual for future reference. If you have any further questions, contact our Technical Support.

Revised Specifications

Maximum Lumber Dimensions 33/4" Thick x 26" Wide

Revised Overview

The Model W1678 26" Double Drum Sander accepts stock up to 3³/₄" thick by 26" wide, and is capable of completing rough and finish sanding in one pass.

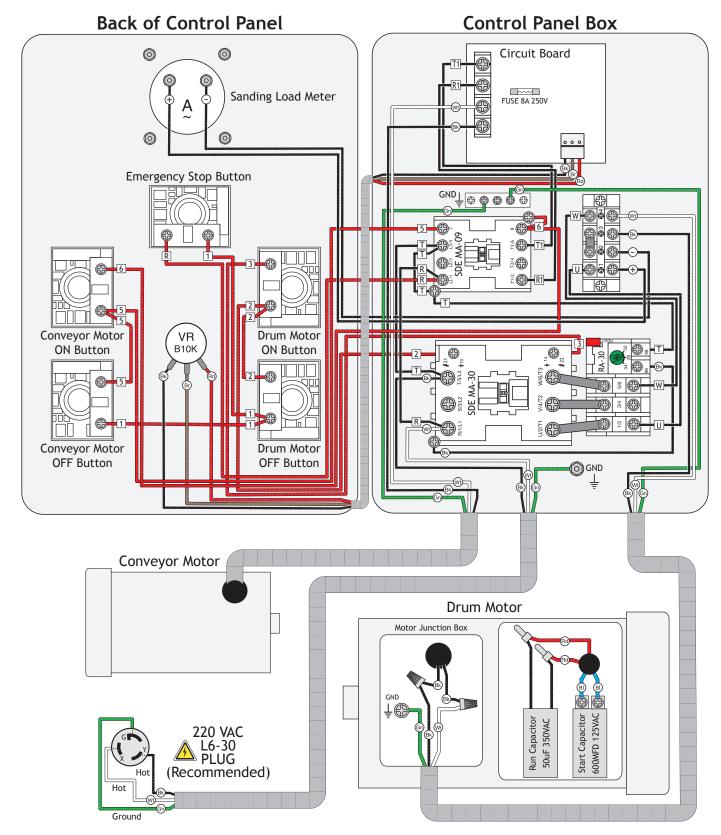
The feed conveyor pushes the workpiece into the infeed side of the sander and under the first pressure roller, which holds the workpiece firmly against the conveyor belt. The front sanding drum sands the workpiece with a coarse-grit sandpaper first. Then the workpiece is then pushed under the second pressure roller and under the rear sanding drum, which sands the final surface with a finer-grit sandpaper, and then travels out of the sander. During sanding, a dust collector removes sanding dust through the two dust ports.



W1678 26" Double Drum Sander

Control System Wiring Diagram

(Replaces Page 36 in Manual)



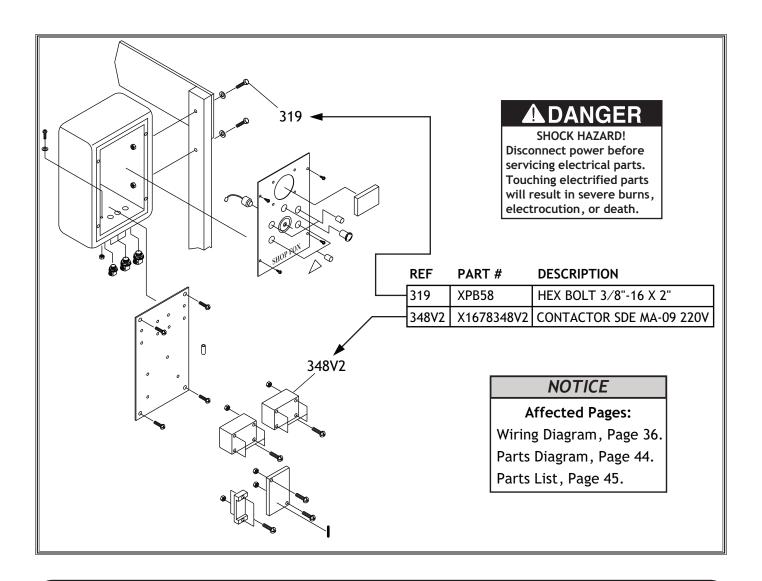
Model W1678 26" Double Drum Sander Manual Update



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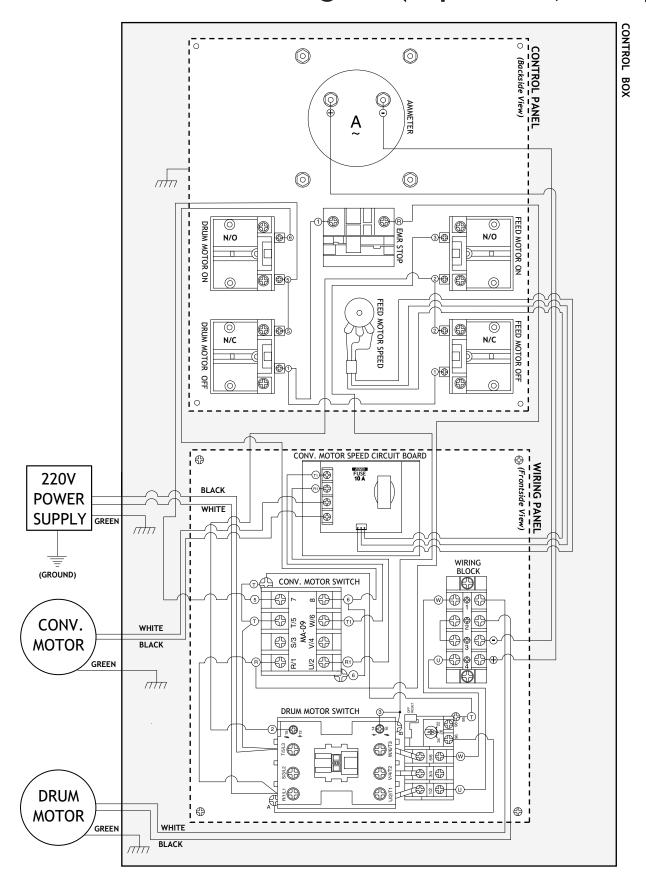
After your Owner's Manual was published, we changed the type of contactor used on the machine. This small change is insignificant to the operation and performance of your machine. However, keep this manual update with your W1678 Owner's Manual for any future reference in ordering electrical parts or doing any electrical work.

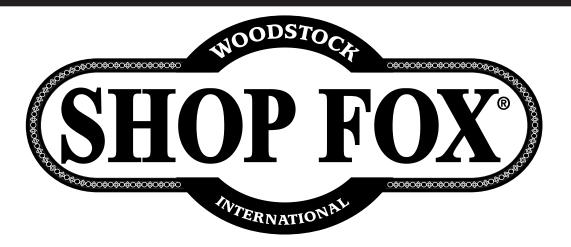
If you have any further questions about this manual update or your machine electrical, contact our Technical Support at (360) 734-3482 or email tech-support@shopfox.biz.





W1678 Control Box Diagram (September, 2009)





MODEL W1678 26" DOUBLE DRUM SANDER



INSTRUCTION MANUAL

Phone: 1-360-734-3482 · On-Line Technical Support: tech-support@woodstockint.com

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WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM WITHOUT

THE WRITTEN APPROVAL OF WOODSTOCK INTERNATIONAL, INC.

Printed in Taiwan



This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.

WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- · Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

SHOP FOX

TABLE OF CONTENTS

PAG	jΕ
INTRODUCTION	
SAFETY	
ELECTRICAL REQUIREMENTS8220V Operation8Extension Cords8Grounding8	
ASSEMBLY 10 Unpacking 10 Box Contents 10 Shop Preparation 11 Initial Cleaning 11 Beginning 12 Dust Port and Handles 13 Control Box 13 Crank and Handle 13	
ADJUSTMENTS	
OPERATIONS 23 Overview 23	
Control Panel23Basic Sanding24Troubleshooting27	
MAINTENANCE 29 General 29 Sanding Belts 29 Lubrication 30 Brush Replacement 31 Sandpaper Replacement 21 Bearing Replacement 32 General Cleaning 34 Wiring Diagram 35	
CLOSURE	
WARRANTY	

USE THE QUICK GUIDE PAGE LABELS TO SEARCH OUT INFORMATION FAST!



INTRODUCTION Woodstock Technical Support

Woodstock International, Inc. is committed to customer satisfaction. Our intent with this manual is to include the basic information for safety, setup, operation, maintenance, and service of this product.

In the event that questions arise about your machine, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: <u>tech-support@shopfox.biz</u>. Our knowledgeable staff will help you troubleshoot problems or process warranty claims.

If you need the latest edition of this manual, you can download it from http://www.shopfox.biz. If you have comments about this manual, please contact us at:

Woodstock International, Inc.
Attn: Technical Documentation Manager
P.O. Box 2309
Bellingham, WA 98227
Email: manuals@woodstockint.com



Specifications

Drum Sander Motor5	HP, 220 VAC, 25 Amp., 3450 RPM, 60 Hertz, Single-Phase
Drum Drive	Dual V-Belt
Drum Size	6" x 27 ³ / ₄ "
Drum Surface Speed	2300 FPM
Drum Rotation	Opposite of Feed Conveyor
Conveyor Motor	¹ / ₃ HP, 60 VDC, 2 amp., 60 RPM, Varable Speed
Conveyor Drive	Sprocket and Chain
Conveyor Surface Speed	0-20 FPM
Minimum Lumber Dimensions	¹ / ₈ " Thick x 9" Long
Dust Port O.D	4
Conveyor Table Size	26 ¹ / ₈ " x 30 ¹ / ₄ "
	Cabinet Style, Powder Coated Paint
BearingsBoth	Serviceable and Permanently-Lubricated Ball Bearings
Power Control	Magnetic Switch, with Emergency Shut-Down
	36" x 23 ³ / ₄ "



SAFETY

For Your Own Safety, Read Manual Before Operating Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures—this responsibility is ultimately up to the operator!

ADANGER

Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

Indicates a potentially hazardous situation which, if not avoided, AWARNING Indicates a potentially flazar dous situation COULD result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment or a situation that may cause damage to the machinery.

Standard Machinery Safety Instructions

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use-especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS. You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow an electrician or qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply BEFORE making adjustments, changing tooling, or servicing machine. This eliminates the risk of injury from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.



- WEARING PROPER APPAREL. Do not wear clothing, apparel, or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips, which could cause loss of workpiece control.
- HAZARDOUS DUST. Dust created while using machinery may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, and always wear a NIOSH-approved respirator to reduce your risk.
- HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.
- REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!
- INTENDED USAGE. Only use machine for its intended purpose—never make modifications without prior approval from Woodstock International. Modifying machine or using it differently than intended will void the warranty and may result in malfunction or mechanical failure that leads to serious personal injury or death!
- AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.
- CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.
- GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris—make sure they are properly installed, undamaged, and working correctly.

- **FORCING MACHINERY.** Do not force machine. It will do the job safer and better at the rate for which it was designed.
- **NEVER STAND ON MACHINE.** Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.
- **STABLE MACHINE.** Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.
- USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase risk of serious injury.
- **UNATTENDED OPERATION.** To reduce the risk of accidental injury, turn machine *OFF* and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.
- MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.
- CHECK DAMAGED PARTS. Regularly inspect machine for any condition that may affect safe operation. Immediately repair or replace damaged or mis-adjusted parts before operating machine.
- MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside, resulting in a short. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.
- experience difficulties. If at any time you experience difficulties performing the intended operation, stop using the machine! Contact Technical Support at (360) 734-3482.



Additional Safety Instructions for Drum Sanders



AWARNING

Read and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. Do not risk your safety by not reading!

ACAUTION

Use this and other machinery with caution and respect, and always consider safety first, as it applies to your individual working conditions. Remember, no list of safety guidelines can be complete, and every shop environment is different. Failure to follow guidelines can result in serious personal injury, damage to equipment or poor work results.

- ALWAYS keep bystanders and yourself away from the infeed and outfeed ends when a workpiece is fed into the sander.
- ALWAYS secure aprons, clothing, and long hair away from all sander moving parts.
- ALWAYS use a respirator along with a dust collection system when sanding. Dust from some woods is toxic, so make sure you research the dangers of the specific species of wood you will sand.
- ALWAYS keep your hands away from the sanding drums during operation, and wear eye and hearing protection.
- ALWAYS keep fingers away from the conveyor and the underside of the workpiece during sander and conveyor operation. Otherwise, fingers can get pinched between the workpiece and the conveyor belt, and pull your hand into the machine causing serious injury or death!
- ALWAYS adjust the conveyor feed rate and sanding drum height, so when you feed the workpiece into the sander using light pressure, you do not overload the sander. Never force the workpiece into the sander.
- ALWAYS shut the sander down, let the drums come to a complete stop, and disconnect power or engage applicable safety-lock devices before you service, adjust, troubleshoot, or leave the machine unattended.
- ALWAYS keep this machine in correct adjustment and properly serviced. Never attempt to clear a jammed workpiece while the sander is running.
- ALWAYS replace the sandpaper when it is worn, and only use undamaged sandpaper.
- ALWAYS inspect the workpiece for nails, staples, knots, imbedded stones, and other material that could be dislodged and thrown from the machine during sanding operations.
- NEVER sand if there is any doubt about the stability or integrity of the workpiece.
- **NEVER** sand more than one workpiece at a time.
- **NEVER** sand stock smaller than 1/8" thick x 9" long.
- **NEVER** sand thin stock by using a "sled" (another board) under the workpiece.
- **NEVER** adjust the conveyor belt tracking when the sanding drums are engaged.



Avoiding Potential Injuries



Figure 1. NEVER hold the stock where the conveyor and stock can pinch your fingers.



Figure 2. ALWAYS keep fingers away from conveyor and the underside of the stock.



Figure 3. NEVER stand in the path of potential workpiece kickback.



Figure 4. ALWAYS keep yourself and bystanders away from the path of potential workpiece kickback.



Figure 5. NEVER sand more than one piece of stock at a time.



Figure 6. ALWAYS feed the sander with only one piece of stock at a time.





Figure 7. NEVER sand stock using a "sled" (another board) under the workpiece.



Figure 8. ALWAYS sand the workpiece with it sitting flat against the conveyor belt.



ELECTRICAL REQUIREMENTS

220V Operation

The SHOP FOX® Model W1678 Drum Sander uses one 220 VAC single-phase motor. This sanding drum motor is rated at 5 HP and draws approximately 25 amps under a normal sanding load. The 1/3 HP varyable speed conveyor motor uses 60 VDC and draws approximately 2 amps.

Refer to the wiring diagram on Pages 35 and 36, and hard wire the power supply to the sander, or use a NEMA-style L6-30 plug and receptacle as shown in Figure 9. In either case, the supply circuit, circuit breaker, or fuse must be able to carry a load of at least 27 Amps. Remember other machines using this circuit add to the total electrical load applied to the circuit. If this total amperage load exceeds the amperage rating of the circuit breaker or fuse, use a different circuit with a higher amperage rating.

DO NOT modify an existing low-amperage circuit by only replacing the circuit breaker with a breaker rated for a higher amperage. The breaker and the complete circuit must be replaced by a qualified electrician.

Extension Cords

We do not recommend using an extension cord with 220V equipment because the cord can generate heat that may cause fire or circuit damage. If you must use an extension cord, use the guidelines listed below and TABLE 2 to determine the correct cord length and gauge. The amp rating of both motors combined is 27 amps at normal operation; however, the amperage will increase or decrease depending on the load you apply on the Double Drum Sander.

- •Use a Standard Service (Grade S) cord or better
- •Use a cord that is 50 feet or less only
- •Use a cord with a NEMA-style L6-30 plug
- •Use an undamaged cord only

Extension Cord Requirements TABLE 2

	Length and Gauge		
Amp Rating	25ft	50ft	100ft
17-20	#12	#12	#10
21-30	#10	#10	N/A

Grounding



AWARNING

Any electrical outlet and circuit that you plug your machine into must be grounded. Serious injury or fire may occur if this warning is ignored!

Ground this machine! The electrical cord supplied with the Model W1678 does not come with a 220 volt plug. Use a plug with a ground pin as shown in **Figure 9**. If your receptacle does not accommodate a NEMA-style L6-30 plug with a ground pin, have the receptacle replaced by a qualified electrician or have an appropriate adapter installed and grounded properly.

NOTICE

When using an adapter, always make sure it is grounded.

Remember, an adapter with a grounding wire does not guarantee the machine will be grounded. A ground source must always be verified in the electrical circuit within the wall or conduit.

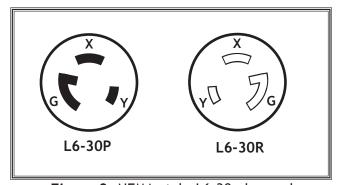


Figure 9. NEMA-style L6-30 plug and receptacle.



ASSEMBLY

Unpacking



ACAUTION

Get moving assistance before starting assembly. The Model W1678 Double Drum Sander is a heavy load at 435 pounds.

The Model W1678 26" Double Drum Sander is carefully packed. However, if it is damaged or is missing any parts, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz.

Box Contents

Lay out and inventory the shipped parts to familiarize yourself with your Model W1678 26" Double Drum Sander. See **Figures 10** and **11**. This will help with the machine assembly.

lte	m	Qty
1.	W1678 26" Double Drum Sander	1
2.	Control Box	1
3	Crank Wheel	1
4.	Dust Port (Concave Base)	1
5.	Crank Handle	1
6.	Dust Port (Flat Base)	1
7.	Hand Knobs	2
8.	Hardware and Tool Bag:	1
	 Self Tapping Screw (#8 X ¹/₂") 	8
	Flat Washer (#10)	8
	 Hex Bolt (3/8"-16 X 2") 	2
	Flat Washer (3/8")	2
	 Hex Wrench (3 mm) 	1
	 Hex Wrench (5 mm) 	1



Figure 10. W1678 26" Double Drum Sander.

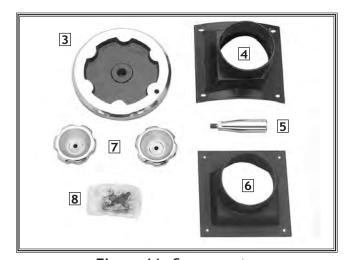


Figure 11. Components.

NOTICE

Depending on manufacture date, some of the box contents may already be installed on your sander.



Shop Preparation



ACAUTION

Make sure shop entrances are locked and machines are equipped with safety lock-out devices when not in use. DO NOT allow untrained people in your shop! Otherwise, injury or death can occur.

- Machine Mobility: If you need to move your drum sander or other machinery to achieve any of the following requirements, Woodstock International Inc. offers a line of SHOP FOX® Mobile Bases. For your drum sander, use the SHOP FOX® Super Heavy-Duty Mobile Base (Model Number D2058) and the SHOP FOX® 36" Extension Bars (Model Number D2246).
- Double Drum Sander Location: Choose a location where, if a workpiece should be ejected, you or bystanders will not be struck. Take all necessary safety precautions.
- Working Clearances: Consider your current and future needs with respect to the size of lumber to be processed at each machine, space for auxiliary stands, work tables, and other machinery.
- **Lighting:** Make sure your lighting eliminates shadows and prevents eye strain.
- Outlets: Make sure electrical circuits are dedicated or large enough to handle the amperage requirements of the new machinery. Electrical outlets should be located near each machine so power or extension cords are clear of high-traffic areas.

Initial Cleaning

If the sander has any dust or slight stains from shipping, DO NOT use a mineral-spirit solvent or chlorine-based cleaner to clean any painted or plastic surface, or the rubber conveyor belt. If you do, you will permanently ruin the surface. Instead, use a clean moist towel dampened with mild dish soap and water to clean these surfaces.

If the sander has any grease spots which may have fallen on metal parts from a drum bearing during shipping, read and understand the following Warnings and Cautions, and then use mineral spirits to remove the excess grease. Then coat the cleaned metal surface with a light coat of machine oil to prevent corrosion.



WARNING

Never use flammables such as gas or other petroleum-based solvents to clean your machine. These products have low flash points and present the risk of explosion and severe personal injury!



WARNING

Never smoke while using cleaning solvents. Smoking may cause explosion or risk of fire when exposed to these products!



ACAUTION

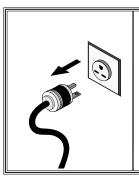


Most solvents used to clean machinery are toxic when inhaled or ingested. When using these products, work in a well ventilated area and keep away from any potential ignition sources (pilot lights). Always dispose of waste rags in a sealed container to make sure they do not cause fire or environmental hazards.



Beginning

The main components of the Model W1678 are assembled at the factory. However, some assembly is required. We recommend the following sequence in this section for assembly.



WARNING

Keep your drum sander unplugged during all assembly, maintenance, and adjustment tasks. Ignoring this warning can cause serious personal injury to you or others!



WARNING

Wear safety glasses during assembly. Serious injury may occur if this warning is ignored!



ACAUTION

Get moving assistance before starting assembly. The Model W1678 Double Drum Sander is a heavy load at 435 pounds.



Figure 12. Dust ports installed.

Dust Ports

When connected to a dust collection system, the dust ports direct suction to remove harmful wood and abrasive dust from the workpiece and your work area.

Make sure the dust collection system draws at least 600 CFM at the drum sander; however,



ACAUTION

DO NOT operate this machine without the correct dust collection system. Failure to use a dust collection system can result in short and long-term respiratory illness.

there will still be a normal layer of dust on the workpiece when it exits the sander unless a larger capacity dust collector is used.

Make sure you connect flexible ducting to the dust ports. This ducting allows you to open the dust hood, change sandpaper, and service your sander without having to disconnect the ducting.

For additional information on the correct dust collection system, additions, or modifications; contact your Woodstock International dealer for your copy of the <u>Dust Collection Basics</u> handbook and available accessories.

To install dust ports, do these steps:

- 1. Position the dust ports on the dust hood so the screw holes line up. See Figure 12.
- 2. With the dust ports held in position on the dust hood, install the #10 flat washers on the #8-1/2" self tapping screws and secure the dust ports to the dust hood.
- Connect your dust collection suction hose to the dust ports, so when you open the dust hood the suction hoses will not bind, leak, or disconnect the dust-collector ducting ground.



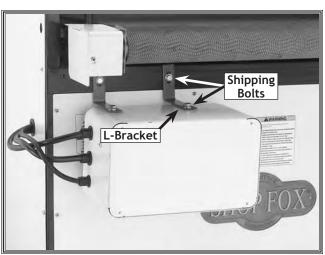


Figure 13. The control box, L-brackets, and bolts for shipping.

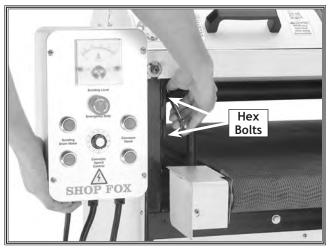


Figure 14. Installing new hex bolts and washers.

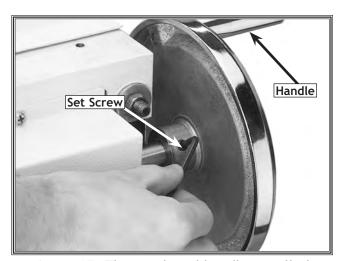


Figure 15. The crank and handle installed.

Control Box

The control panel allows you to control the sander electronically. For shipping, the control box comes bolted to the sander with L-brackets. Retain these brackets should you ever need to ship the sander. See **Figure 13**.

To install the control box, do these steps:

- 1. Remove the L-brackets, bolts, and washers securing the control box to the back of the sander. See Figure 14.
- 2. Position the control box on the sander and secure with (2) 3/8" flat washers and (2) 3/8"-16 X 2" hex bolts.
- 3. Tighten the bolts. See Figure 14.

Crank and Handle

The crank and handle is used to raise and lower the conveyor. For each revolution of the crank, the conveyor moves 0.021".

To install the crank and handle, do these steps:

- Thread the handle into the crank and use a 1/2" wrench to tighten the handle to the crank.
- 2. Slide the handwheel onto the shaft and align the threaded set screw bore on the crank with the flat on the shaft.
- 3. Thread the ⁵/₁₆"-18 x ¹/₂" set screw into the crank to secure the handwheel to the shaft. See Figure 15.
- 4. Use the 4 mm hex wrench and tighten the set screw.



ADJUSTMENTS

Drums and Pressure Rollers

To get the best sanding results and longest life

AWARNING

Adjust the sanding drums and pressure rollers correctly. Complete PART 1, PART 2, PART 3, and PART 4 of this section in sequence. Otherwise, the sanding drums can grab and project the workpiece damaging the sander, and injuring you and bystanders!

out of your sandpaper, both the front and rear sanding drums must: (1) be square with the conveyor table, (2) run parallel with each other and parallel to the conveyor feed direction, and (3) must be slightly staggered in height with one another. Pressure-roller spring tension and height must also be set correctly.

As you become more familiar with your sander you can vary your sander settings to fine-tune the machine for your ultimate sanding goals.

PART 1: Drum-to-Conveyor



AWARNING

Keep your drum sander unplugged during these adjustments. Otherwise, serious personal injury may occur!

Squareness

For this adjustment, you will align the drums so the drums are square with the feed conveyor belt surface. See **Figure 18**.

To adjust the drum-to-conveyor squareness, do these steps:

- Make two gauge blocks from a quality piece of straight two-by-four hardwood stud. One block should be 30" long, and the other 2⁵/₈" long. See Figure 16.
- 2. Unplug the Double Drum Sander!
- 3. Unlatch and open the dust hood. See Figure 17.

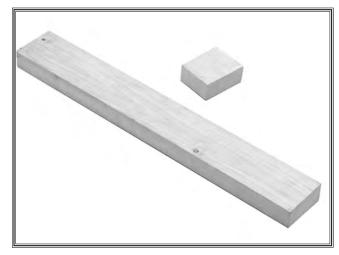


Figure 16. Gauge blocks for drum alignment.



Figure 17. W1678 dust hood open.

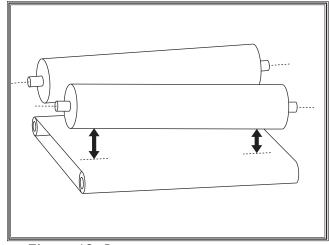


Figure 18. Drums to conveyor not square.



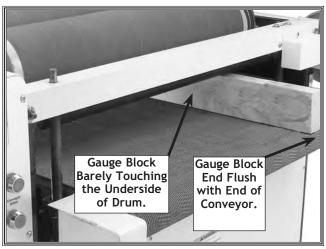


Figure 19. The 30" gauge block positioning.

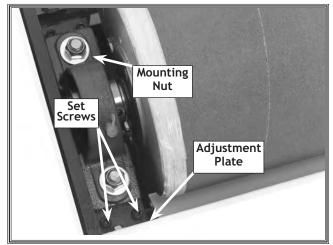


Figure 20. Front bearing block, nuts, and set screw tightening sequence.



Figure 21. Rear drum micro adjustment knob and lock lever.

- **4.** Lower the conveyor table and position the 30" gauge block under one end of the front drum and flush with the end of the conveyor. See **Figure 19**.
- **5.** Turn the micro adjusting knob and raise the rear drum so it will not contact the gauge block.
- **6.** Rotate the front drum by hand, and raise the conveyor table until you hear the gauge block barely rub the underside of the front drum.
- **7.** Move the gauge block to the other side of the conveyor table under the other end of the front drum.
- **8.** Rotate the drum again and listen and feel the drag to determine which end of the drum is too low or high.
- 9. At the low end of the drum, loosen the bearing-block mounting nuts 1/4 to 1/3 turn. See Figure 20.

NOTICE

DO NOT over-tighten the bearing block mounting nuts. The bearing blocks are machined housings that can warp or crack if the nuts are over-tightened.

- 10.Use a 4 mm Allen® wrench to equally turn the set screws at one end of each adjustment plate ¹/₈" turn at a time to raise the bearing block height at the low end of the drum. Remember, adjusting one drum-end slightly affects the adjustment at the opposite end. See **Figure 20**.
- **11.**Repeat **Steps 1** through **10** to achieve front drum-to-conveyor squareness.
- **12.**Tighten the nuts in an alternating pattern and recheck the squareness.
- **13.**Now use the 30" gauge block at the rear drum to find which end is too low.
- 14. Unlock the micro-adjustment lock knob, and turn the micro-adjust knob to adjust the rear drum height. See Figure 21. Unlike the front drum, there are no set screws to adjust the rear drum height.



PART 2: Drum-to-Conveyor Parallelism

For this adjustment, you will align the front drum so the sanding path runs parallel with the conveyor belt feed path. You will then align the rear drum to the front drum so it is parallel with

NOTICE

If the drum-to-conveyor parallelism is out of adjustment, the sandpaper may become loose and load-up over to one side of the drum(s).

the front drum. See Figure 22.
To adjust the drum-to-conveyor parallelism, do these steps:

- 1. At either end and at the surface of the front drum, measure the distance between the drum and the front brace. It should be approximately 1/2". See Figure 23.
 - If the difference between the two measurements is less than ¹/₈", skip Steps 2 through 4, and go to Step 5.
 - If the distance is greater than ¹/₈", go to Step 2.

NOTICE

DO NOT over-tighten the bearing block mounting nuts. The bearing blocks are machined housings that can warp or crack if the nuts are over-tightened.

- 2. Loosen the bearing-block mounting nuts on one end of the front drum. See Figure 24.
- 3. Slide the drum and bearing block forward or rearward to eliminate any front-drum to front-brace measurement difference. Remember, adjusting one drum-end slightly affects the adjustment at the opposite end.
- **4.** Tighten the nuts, recheck the measurement, and readjust as necessary.

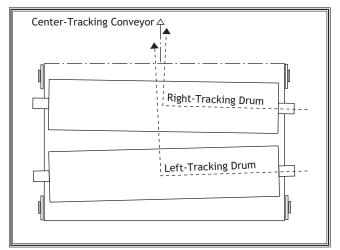


Figure 22. Drums to conveyor path not parallel.

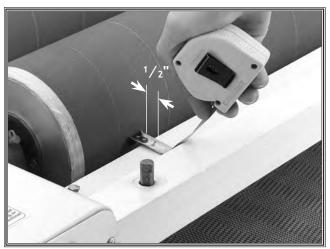


Figure 23. Front-drum to front-brace measurement.

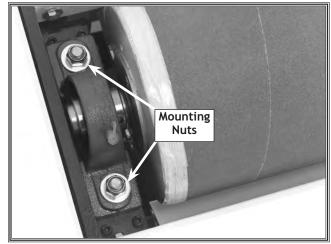


Figure 24. Front bearing block and nuts.





Figure 25. The 25/8" gauge block positioning.

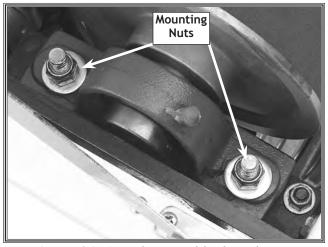


Figure 26. Rear bearing block and nuts.

- 5. At one end of the rear drum, place the 2⁵/₈" gauge block on the dust collector bar and between both drums. Your goal is to slide the rear drum against the block so the rear drum sanding path runs true with the front drum, which now runs true with the conveyor feed path. See **Figure 25**.
- **6.** Loosen the left bearing-block mounting nuts at the end of the rear drum just enough to slide the bearing block. See **Figure 26**.
- 7. Slide the rear drum and bearing block forward until it stops against the $2^5/8$ " gauge block that is sandwiched between the two drums. The gauge block should just be snugly held against the front drum.

NOTICE

DO NOT over-tighten the bearing block mounting nuts. The bearing blocks are machined housings that can warp or crack if the nuts are over-tightened.

- 8. Tighten the nuts in an alternating pattern.
- 9. Repeat **Steps 5** through **8**, on the opposite end of the rear drum. Alternate the adjustment until the 2⁵/₈" gauge block has the same snug fit between the drums at both ends. The difference between ends must be less than ¹/₈". Remember, adjusting one drum-end slightly affects the adjustment at the opposite end.

NOTICE

Make sure the drive belts still have the correct tension. If they are out of adjustment, adjust as outlined in the V-Belt Tension procedure on Page 21.



PART 3: Drum-to-Conveyor Height

For this adjustment, you will find a reference height for the front drum and then adjust the rear drum so it is 0.007" to 0.010" lower than the front drum. See Figure 27.

To adjust the drum-to-conveyor height, do these

NOTICE

Make sure you use the same part of the 30" gauge block at the opposite side of the conveyer belt when adjusting the drum-to-conveyor height. Otherwise, the adjustment may be inconsistent.

steps:

- Lower the conveyor table, and position the 30" gauge block to one side of the conveyor belt and flush with the end of the feed conveyor drive roller. See Figure 28.
- 2. Raise the conveyor table so the gauge block barely touches the front drum and mark this height position with tape on the handwheel at the 12:00 o'clock position. See Figure 29.
- 3. Turn the handwheel counter-clockwise exactly 1/2 turn to lower the conveyor.
- 4. Unlock the rear-drum micro-adjusting lock lever and turn the micro-adjusting knob so the rear drum lowers until it just barely touches the gauge block.
- 5. Repeat Step 14 at both ends of the rear drum.

NOTICE

Once the rear drum height is set, the height can be fine-tuned later without having to complete all four parts of this section. However, you must make sure that when you adjust the rear drum height you adjust it equally on both sides so it stays square and level with the conveyor table. Using a pencil, mark a squiggly line on the workpiece and sand it to test for even sanding. Look for uniform removal of the line. If the line is not removed uniformly, readjust the sander accordingly.

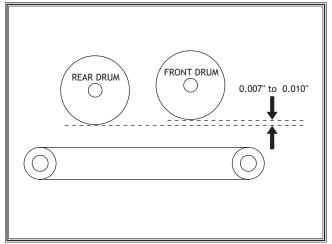


Figure 27. Drum-to-conveyor height.

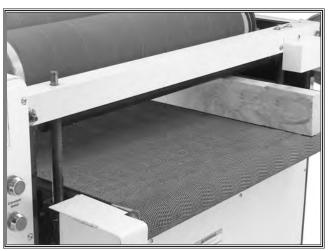


Figure 28. The 30" gauge block positioning.

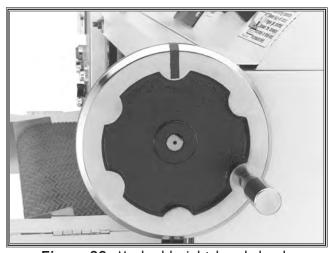


Figure 29. Marked height handwheel.



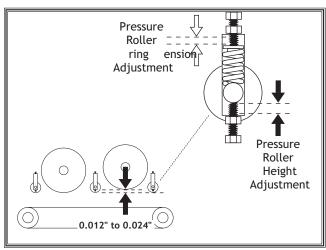


Figure 30. Pressure Roller Adjustment.

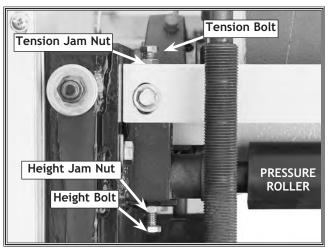


Figure 31. Pressure roller tension and height bolts and jam nuts.

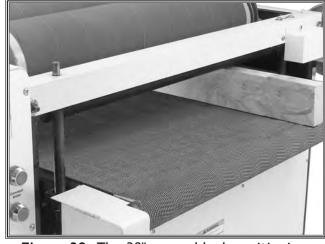


Figure 32. The 30" gauge block positioning.

PART 4: Pressure Roller Adjustment

Depending on your sanding needs, adjust the pressure roller height and spring tension. See **Figure 30**.

To adjust pressure-roller height, do these steps:

- Loosen all six height jam nuts. See Figure 31.
- **2.** Position the 30" gauge block to one side of the conveyor belt and under the three pressure rollers. See **Figure 32**.
- 3. Turn the handwheel so the gauge block barely touches the rear drum and the handwheel tape is at the 12:00 position.
- **4.** Now turn the handwheel counter-clockwise exactly $2^{1/2}$ turns.
- **5.** Turn the pressure-roller height bolt until the pressure roller just contacts the gauge block. See **Figure 31**.
- **6.** Hold the height bolt in position and tighten the height jam nut.
- 7. Repeat Steps 1 through 6 at all rollers, and remove the gauge block.

To adjust pressure-roller spring tension, do these steps:

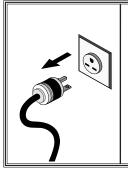
- 1. Loosen all six tension jam nuts, and back out the tension bolt completely. See Figure 31.
- 2. Turn the tension bolt clockwise until it just makes contact with the spring and has resistance.
- **3.** Turn the bolt one additional turn to adjust the spring to a basic spring tension value.
- **4.** Hold the tension bolt in position and tighten the tension jam nut.
- 5. Repeat Steps 2 through 4 at all rollers.
- **6.** Close and latch the dust hood, and check the V-belt tension.



Dust Scoop Gap

For this adjustment, you will adjust the dust scoops so they can efficiently focus dust collection system suction where the most dust is created as the workpiece travels through the drum sander. You will set the dust scoops above the bottom of the drums. See **Figure 33**.

To adjust the dust scoop gap, do these steps:



AWARNING

Keep your drum sander unplugged during all assembly, maintenance, and adjustment tasks. Ignoring this warning can cause serious personal injury to you or others!

- 1. Unplug the Double Drum Sander.
- 2. Unlatch and open the dust hood.
- **3.** Insert two gauge blocks (two 30" two-byfours) of equal height under the sanding drum and dust scoop. See **Figure 35**.
- **4.** Raise the table until the rear drum just touches the gauge blocks.
- 5. Loosen the dust scoop mounting bolts and slide the scoop up or down until it is 1/32" above the gauge blocks. See Figure 34. You may have to bend the lip of the dust scoop to get the appropriate gap.
- 6. Tighten the dust scoop mounting bolts.
- 7. Repeat Steps 5 and 6 on all dust scoop ends.
- 8. Close the dust hood and latch it shut.

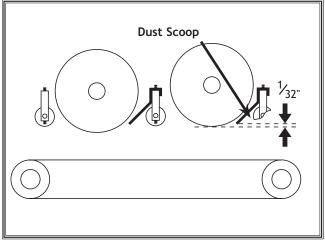


Figure 33. Dust scoop gap.

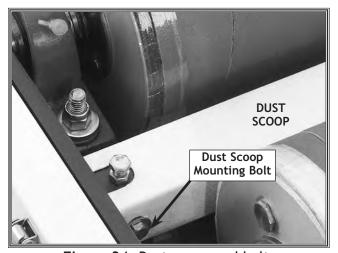


Figure 34. Dust scoop and bolt.

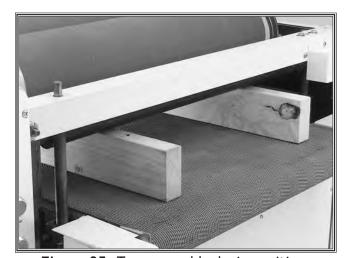


Figure 35. Two gauge blocks in position.



Front Panel Mounting Screw SHOP FOX

Figure 36. Front panel and mounting screws.

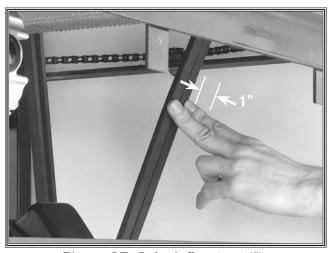


Figure 37. Belt deflection (1").

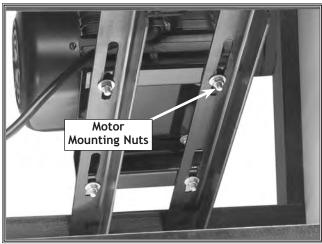


Figure 38. Motor mounting nuts.

V-Belt Tension

The sanding drums are driven by two heavy-duty V-belts. After drum adjustments and normal operation, the belts may need adjustment. The belt looseness or deflection must be approximately

AWARNING

Keep your drum sander unplugged during all assembly, maintenance, and adjustment tasks. Ignoring this warning can cause serious personal injury to you or others!

AWARNING

Make sure you inspect the V-belts correctly when adjusting the belts. Replace both belts even if only one is worn. Otherwise, one belt could slip and break, damaging the sander and injuring you and bystanders!

To inspect / adjust the V-belts, do these steps:

- 1. Unplug the Double Drum Sander.
- 2. Remove eight front panel mounting screws and remove the panel. See Figure 36.
- 3. At the halfway point between the drum pulley and the motor pulley, push on both belts with moderate finger pressure. The looseness or deflection must be approximately 1". See Figure 37.
- 4. Grab the belts one at a time, twist them, and use a flashlight to inspect the inside and outside of the belt. If you see deep cracks, fraying, chunks missing, or the belt is brittle and glazed; replace both belts.
- 5. Loosen the motor mounting nuts, and slide the motor on the mounting plate to adjust the belt. See Figure 38.
- **6.** Tighten the motor mounting nuts, recheck and readjust the belts as necessary.
- 7. Reinstall the front panel.

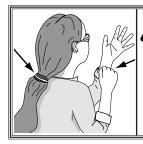


Conveyor Belt

For this adjustment, you will adjust the feed conveyor belt hanging gap and the tracking, so the conveyor runs in the center of the table and the drive roller does not slip at maximum sanding load. See **Figure 39**.

NOTICE

ONLY make adjustments to the infeed roller side so the drive-chain tension is not affected.



AWARNING

Make sure loose clothing and long hair is secured and kept away from all moving parts.

To adjust the feed conveyor belt tension and tracking, do these steps:

- Remove the screws from the feed conveyor safety covers and open the covers. See Figure 40.
- 2. Locate the conveyor roller adjustment bolts at the infeed roller. See Figure 41.
 - If the feed conveyor belt is loose, turn both conveyor roller adjustment bolts counterclockwise the same amount until the belt hangs with a ¹/₂" gap.
 - If the feed conveyor belt tracks to the right, start the conveyor and slightly turn the right-side conveyor roller adjustment bolt counter-clockwise.
 - If the feed conveyor belt tracks to the left, start the conveyor and slightly turn the leftside conveyor roller adjustment bolt counter-clockwise.
- 3. Close the safety covers and run the feed conveyor for 15 minutes at the fastest setting to make sure the belt tracks in the center of the table.
- 4. Repeat Steps 2 and 3 until the belt tracks in the center of the table.
- **5.** Turn the feed conveyor *OFF* and install the safety cover screws.

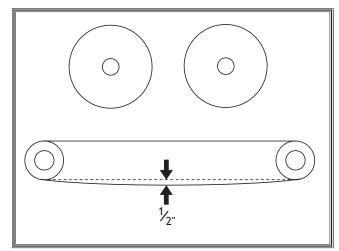


Figure 39. Conveyor belt hanging gap.



Figure 40. Infeed-conveyor safety covers.

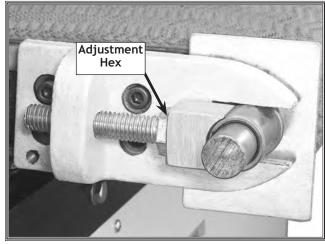


Figure 41. Conveyor roller adjustment bolts.



OPERATIONS

Overview

The Model W1678 26" Double Drum Sander accepts stock up to $4^{1}/_{2}$ " thick by 26" wide, and is capable of completing rough and finish sanding in one pass.

The feed conveyor pushes the workpiece into the infeed side of the sander and under the first pressure roller, which holds the workpiece firmly against the conveyor belt. The front sanding drum sands the workpiece with a coarse-grit sandpaper first. Then the workpiece is pushed under the second pressure roller and under the rear sanding drum, which sands the final surface with a finer-grit sandpaper, and then travels out of the sander. During sanding, a dust collector removes sanding dust through the two dust ports.



Figure 42. Control Panel.

Control Panel

The control panel enables you to turn the conveyor *ON/OFF*, control the workpiece feed rate, turn the sanding drums *ON/OFF*, and monitor the sanding load applied by observing the load meter on the control panel. The panel controls are described in detail below. See **Figure 42** for control locations.



WARNING

DO NOT operate this sander until you have completed all assembly, and adjustments. Observe all safety precautions, and read and understand this entire manual.

The control panel offers these controls:

 Sanding Load Meter: Allows you to observe the amperage draw, which indicates the sanding load on the sander so you don't overload the motor (25 amps is the maximum safe load limit).

NOTE: the load applied on the sander is a balance between conveyor feed rate, sanding drum pressure on the workpiece, grit of sandpaper used, and the species of wood being sanded.

- Emergency Stop Button: Allows you to turn the main power *ON* or *OFF* to the double drum sander, and shut down the machine in an emergency. Twist clockwise and pull to turn *ON*, and push to turn the sander *OFF*.
- Conveyor Speed Control Dial: Allows you to adjust the speed at which the feed conveyor pushes the workpiece into the sander from 0-20 FPM.
- Sanding Drum Motor ON and OFF Buttons: Allows you to turn the sanding drums ON or OFF independently of the conveyor.
- Conveyor Motor ON and OFF Buttons: Allows you to turn the conveyor belt ON or OFF independently of the sanding drums.



Basic Sanding

The normal sanding depth for most workpieces is $^{1}/_{64}$ ". This depth can be achieved by approximately a $^{3}/_{4}$ turn of the table height handwheel. For each turn of the handwheel, the conveyor table moves approximately 0.021" See **Figure 43**.

Remember, heavy cuts and/or a feed rate that is too fast can jam or burn the workpiece, instantly burn the sandpaper, slip the drive belts and give poor sanding results. See **Figures 44** and **45**.

To help prevent these conditions, make the correct depth of cut; and for wide workpieces, sand them two or three times without adjusting the table height. Also, turn the stock 180° to ensure an even cut.

TIP: When you sand dark-colored wood and then you sand light-colored wood, pass a PRO-STIK® 15" x 20" cleaning pad through the drum sander so the light-colored wood will not become stained from the previously sanded dark wood.



WARNING

DO NOT operate this sander until you have completed all assembly and adjustments. Observe all safety precautions, and read and understand this entire manual.



AWARNING

Always wear a dust mask safety glasses, and hearing protection when operating the sander. Sawdust may cause allergic reactions or respiratory problems.



WARNING

Make sure loose clothing and long hair is secured and kept away from all moving parts.

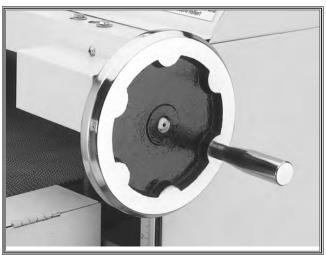


Figure 43. Table height handwheel.



Figure 44. Depth scale indicates depth of cut.

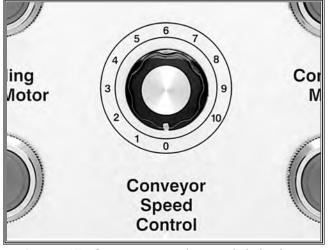


Figure 45. Conveyor speed control dial adjusts conveyor feed rate.





Figure 46. Main power ON/OFF safety switch.



Figure 47. DO NOT stand in the path of where the workpiece could be projected.



Figure 48. NEVER hold the workpiece where the conveyor and workpiece can pinch your fingers.

NOTICE

ALWAYS take a few moments to listen and observe for unusual noise and vibration after starting the Double Drum Sander.

To use the double drum sander, do these steps:

- 1. Twist and pull the emergency stop switch knob, and position your finger over the knob. Be ready to push the knob and shut the sander *OFF* if there is a problem. See Figure 46.
- **2.** Push the sanding drum *ON* button and listen for any unusual noises. The sander must run smoothly with little or no vibration.
 - If unusual noise or vibration exists, push the emergency stop switch immediately and unplug the sander.
 - Troubleshoot the source of the noise or vibration, and correct the problem.
 - ONLY adjust the sander when it is OFF and unplugged.
 - **ONLY** restart the sander when you are sure the problem is corrected.
- 3. Start your dust collector.

AWARNING

DO NOT stand in the path where the workpiece could be projected. If you ignore this warning you could be severely injured or killed!

- 4. Place the workpiece on the conveyor table and turn the table height handwheel clockwise to raise the conveyor table until the stock barely touches the pressure roller. See Figure 48.
- **5.** Push the feed motor *ON* button to start the feed conveyor.
- **6.** See **Figures 48** and **49** and feed the workpiece correctly where the conveyor cannot pinch your fingers.



NOTICE

Since various types of stock will react differently with various loads, use a process of trial-and-error to determine the best load settings and feed rate for your sanding needs.

A slower feed rate will sand the surface smoother, but risks burning the wood; a faster feed rate will remove material faster, but risks overloading the motor.

As a general rule, always start with a small load and work your way up. We recommend that you do not push your machine to its maximum load; instead, make multiple passes or install a coarser grit paper.

- 7. Let the workpiece travel into the sander and slowly raise the conveyor table while listening for stock-to-drum contact. As soon as you hear contact, stop raising the table and watch the load meter. DO NOT exceed a load of 25 amps or you may damage the motor. See Figures 49 and 50.
 - If the amperage gets higher than 25 amps, immediately lower the conveyor to reduce the load. You can also lower the conveyor FPM feed rate.
- **8. DO NOT** stand directly in the outfeed path. Retrieve your workpiece by standing to the side of the sander at the outfeed side.
- Without raising or lowering the table, make multiple passes and check your workpiece for sanding quality and consistency.

With a pencil, you can mark a squiggly line on the workpiece and sand it to test for even sanding.

Look for uniform removal of the line. If the line is not removed uniformly, adjust the sander accordingly.



Figure 49. ALWAYS stand out of the way of where the workpiece could be projected, and keep fingers away from the underside of the workpiece.

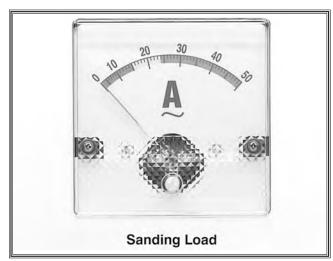


Figure 50. Load meter.



TroubleshootingUse this troubleshooting chart to correct potential W1678 Double Drum Sander problems.

SYMPTOM	POSSIBLE REASON	HOW TO REMEDY
The sanding drums will not start.	The main power emergency stop button is pushed in, or it is faulty.	Twist and pull the main power emergency stop button, or test and replace the switch. NEVER attempt to repair safety switches, ONLY replace them with new ones.
	The power supply is insufficient or the circuit breaker or fuse is tripped.	 Repair power supply. Close circuit breaker / replace the fuse. Reduce sanding load to 25 amps max.
	A wire or plug is loose or broken.	 Replace all bad wiring and plugs. Tighten all loose connections.
	The amperage dial is set too low.	Unplug the sander, open the main power panel, and adjust the amperage dial on the main power magnetic switch to 25 amps.
	The thermal protection circuit breaker is tripped.	 Unplug sander, open main power panel, and push the reset button. Reduce sanding load to 25 amps max.
	The main power magnetic switch is faulty.	Replace the main power magnetic switch.
	Either the <i>ON</i> or <i>OFF</i> switch is shorted open.	Replace the push-button switch.
	The drum-drive motor is faulty.	Replace or repair the drum-drive motor.
The feed conveyor will not start, or it	The main power emergency stop button is pulled out, or it is faulty.	Twist and pull the main power emergency stop button, or test and replace the switch. NEVER attempt to repair safety switches, ONLY replace them with new.
operates incorrectly.	The power supply is insufficient or the circuit breaker or fuse is tripped.	 Repair power supply. Close circuit breaker / replace the fuse. Reduce sanding load to 25 amps max.
	A wire or plug is loose or broken.	 Replace all bad wiring and plugs. Tighten all loose connections.
	The conveyor feed speed switch is faulty.	Replace the conveyor feed speed switch.
	Either the <i>ON</i> or <i>OFF</i> switch is shorted open.	Replace the push-button switch.
	The feed motor magnetic switch is faulty.	Replace the feed motor magnetic switch.
	The feed motor brushes are worn.	Replace both feed motor brushes.
	The conveyor feed speed circuit board is faulty.	Replace or repair the conveyor feed speed circuit board.
	The feed motor is faulty.	Replace or repair the feed motor.
The drum sander wobbles or	The mobile base, stand, or platform is loose or unstable.	Make sure all fasteners are tight; the sander is operating on a sturdy stand and flat floor.
vibrates.	The motor or other components are loose, misaligned, or out of adjustment.	Make sure all fasteners and sander parts are tight or correctly adjusted.



Troubleshooting (Continued)

SYMPTOM	POSSIBLE REASON	HOW TO REMEDY
The feed	The conveyor belt tension is incorrect.	Adjust the conveyor belt tension.
conveyor belt stops or chatters.	The conveyor belt tracking is incorrect.	Adjust the conveyor belt tracking.
The sanded surface is	The sandpaper is worn out.	Replace the sandpaper.
glazed and shiny.	The drums are only applying light pressure against the sanded surface.	Increase the sanding pressure on the workpiece surface.
Long grooves or high spots	The sandpaper is damaged or uneven-bald wear in certain areas.	Replace the sandpaper.
on sanded surface.	The sandpaper is unevenly crushed into the hook-and-loop wrapping on the drums.	Remove and rewrap the sandpaper on the drums.
The wood slips on the feed	The feed conveyor belt is slippery with sawdust or the surface is worn.	Clean or replace the feed conveyor belt.
conveyor belt.	Too much material is being removed in one pass.	Reduce the sanding load, and adjust the drums and pressure rollers.
The left and right edges on wood are rounded.	The drums are applying too much sanding force on the workpiece and the free edges of the sandpaper are rolling over the edges.	Reduce the force the drums are applying on the workpiece surface.
The wood thickness is	The drums are not square to the table.	Adjust the drums and pressure rollers.
uneven from side-to- side.	The sandpaper is worn or clogged unevenly from side-to-side.	Clean or replace the sandpaper.
Snipe is evident on the ends of	Lack of outfeed or infeed support is causing the snipe.	Use roller tables and support the infeed and outfeed of the workpiece.
the wood.	The drum height and the pressure roller spring tension are incorrect.	Adjust the drums and pressure rollers.
The sandpaper	The sandpaper grit is too fine or is worn out.	Replace the sandpaper.
clogs too	Too much wood is being removed at once.	Reduce the load on the sanding drums.
quienty.	The wood is wet, oily, or dirty.	Sand only dry and clean wood.
	The dust collection system is insufficient.	Service the dust collection system or increase the duct collector system efficiently.
The sandpaper tears.	The drums are not sanding parallel to direction of conveyor belt feed.	Adjust the drums and pressure rollers.
ccui 3.	Drums are not square with the table.	Adjust the drums and pressure rollers.
	Sandpaper edges have overlapped or tape has slipped.	Wrap sandpaper on drums correctly and use a heavy-duty tape.
	Too much wood is being removed at once.	Reduce the load on the sanding drums.



SHOP FOX

MAINTENANCE

General

Regular maintenance on your Model W1678 helps ensure optimum performance. Inspect your machine each time you use it for the following conditions. Adjust, repair, or replace parts when worn.

- 1. Inspect for loose bolts and panels.
- 2. Make sure the work area is clean, and remove any tools or rags from the machine.
- 3. Replace worn electrical parts like the emergency stop switch, *ON* and *OFF* push buttons, and damaged cords and plugs.
- **4.** Replace damaged sandpaper, motor V-belts, or conveyor drive chains and sprockets.
- **5.** Correct any other condition that could hamper the safe operation of this machine.
- **6.** Routinely clean the sandpaper with a PRO-STIK® 15" x 20" cleaning pad shown in **Figure 51.**



Figure 51. PRO-STIK® 15" x 20" cleaning pad.

Sanding Belts

As sanding drums are used, the sandpaper can quickly become "loaded" with sawdust. If not removed, this sawdust may harden on the abrasive surface and can glaze instead of sand the wood, thus, rendering the sandpaper useless.

To avoid this condition, routinely clean the sandpaper with a rubber gum abrasive cleaner such as the D3003 PRO-STIK® 15" x 20" cleaning pad shown in **Figure 51**. to extend the life of the sandpaper.

Discard all worn sandpaper because the grit will fall off causing deep gouges in the workpiece. Also the glue used to hold the grit to the paper can rub off onto the workpiece burning the

REPLACEMENT SANDPAPER		
GRIT	PART #	
60	D3162	
100	D3163	
150	D3164	

workpiece. Contrary to some beliefs, worn abrasive belts are not the equivalent to the next finer grit abrasive.

There are many types of sandpaper you can use. Aluminum Oxide is excellent for general wood shop use. To the right is a chart that groups abrasives into different classes, and shows which grits fall into each class.

GRIT RANGE	TYPE
60	Coarse
80-100	Medium
120-180	Fine
220	Very Fine

The Model W1678 allows you to use two different grit sandpapers at once. The first drum is fitted with a coarser grit than the second. Usually this translates into combinations of successive group types. A common selection for a workpiece that is planed before it is sanded, is the 100/150 grit combination.

Overall, the general rule of thumb is to sand a workpiece with sandpaper that uses progressively higher grit numbers, with no one grit increase of more than 50.

Ultimately, the type of wood you use and your stage of finish will determine the best grit types to install on your sander.



Lubrication

The four drum bearings in the bearing blocks need to be lubricated every 20 hours of operation. However, all other bearings used on this machine are shielded and permanently lubricated. Simply leave them alone until they need to be replaced. DO NOT lubricate them, as this will only attract dust and cause possible premature bearing failure.

DO NOT apply grease on any exposed areas on the sander like the feed conveyor chain, sprockets, and the table lead screws. If you do, sanding dust and abrasives will collect on these parts and create a gummy mixture that can hamper proper movement of components and increase wear. Use a light machine oil and a dry graphite lubricant.

To lubricate the sander, do these steps:

- 1. Unplug the double drum sander.
- 2. Clean the sander as outlined in **General** Cleaning procedures on Page 34.
- Open the dust hood to gain access to the four drum-bearing-housing grease zerks. See Figure 57.
- 4. Remove the grease zerk cap from the bearing block housing, wipe all contamination off of the zerk, and squirt two pumps of high-quality lithium-base grease into the bearing.

 DO NOT over-grease the bearing.
- **5.** Coat the exposed areas of the table lead screws with dry powdered graphite.
- **6.** Coat the feed conveyor chain and sprockets with a light machine oil, and use a rag to wipe-off the residual oil. See **Figure 52**.
- 7. Put three drops of the machine oil in the handwheel bushing oil port and a couple of dabs of lithium-base grease on the handwheel gears. See Figure 53.
- **8.** Wipe off any loose grease and replace the dust cap.
- **9.** Repeat **Steps 1** through **6** for the three remaining drum bearings.
- 10.Close the dust hood and close the latches.

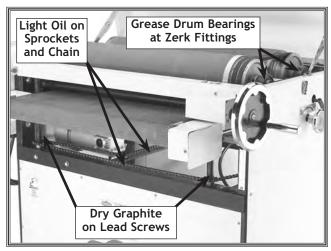


Figure 52. Drum bearings, table head screws, feed conveyor chain and sprockets.

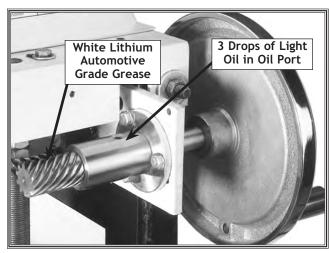


Figure 53. Handwheel bushing and gears.

If any part of the sander becomes difficult to operate, it is most likely caused by an accumulation of sawdust. Immediately troubleshoot the area and remove any sawdust. Or contact Woodstock International, Inc. Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz.





Brush Cover

Figure 54. Conveyor motor brush cover.



Figure 55. Carbon brush and spring.

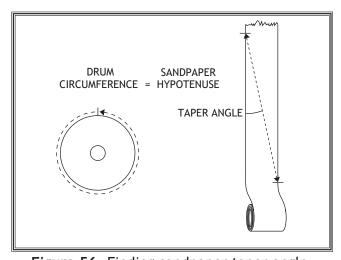


Figure 56. Finding sandpaper taper angle.

Brush Replacement

After long periods of heavy sander use, it may be necessary to replace the conveyor motor carbon brushes.

To replace the carbon brushes, do these steps:

- 1. Unplug the double drum sander!
- 2. Raise the table to the highest position.
- 3. Use a flat-head screwdriver and remove the brush cover. See **Figure 54**.
- **4.** Carefully slide out the spring and carbon brush. See **Figure 55**.
- 5. Insert the new carbon brush exactly like the old one was installed.
- **6.** Replace the brush cover.
- Repeat Steps 1 through 6 for the other motor brush on the other side of the motor.

Sandpaper Replacement

The Model W1678 Double Drum Sander is designed for rolls of 3" wide hook-and-loop sandpaper.

To change the sandpaper, do these steps:

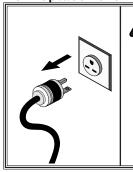
- 1. Unplug the double drum sander!
- 2. Open the dust hood to expose the drums.
- 3. Observe the direction that the sandpaper is wrapped around the drum, and unwind the old sandpaper one drum at a time.
- 4. Use the old sandpaper as a pattern to cut out the new sandpaper, or measure and cut the sandpaper taper yourself. See **Figure** 56.
- 5. Tightly wrap the sanding drum with the new sandpaper and keep the gaps to a minimum.
- **6.** Apply two complete passes of ³/₄" reinforced strapping tape at both drum ends, making sure that the second layer is directly on top of the first.
- 7. Replace the sandpaper on the other drum, and close and latch the dust hood.



Bearing Replacement

The Model W1678 26" Double Drum Sander is designed for many years of reliable service. But after long periods of heavy sander use, it may be necessary to replace the drum bearings. Always replace both bearings on the same drum.

To replace the drum bearings, do these



AWARNING

Keep your drum sander unplugged during all assembly, maintenance, and adjustment tasks. Ignoring this warning can cause serious personal injury to you or others!

steps:

- 1. Unplug the double drum sander!
- 2. Open the dust hood, and remove the mounting nuts, the washers and the set screws. See **Figure 57**.
- 3. Lift the drum and slide the bearing block

NOTICE

DO NOT hammer on the bearing or housing as you WILL damage these precision parts.

and bearing from the drum shaft.

- **4.** Clean and inspect the drum shaft for cracks, burrs, wear, and other damage; replace/repair as required.
- **5.** Use a screwdriver to pry and rotate the bearing so it is horizontal to the bearing-block mounting flanges. See **Figure 58**.
- **6.** Slide the bearing out of the bearing block. See **Figure 59**.

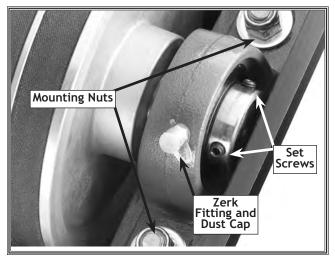


Figure 57. Mounting nuts, washers, and set screws.



Figure 58. Bearing positioning for removal.

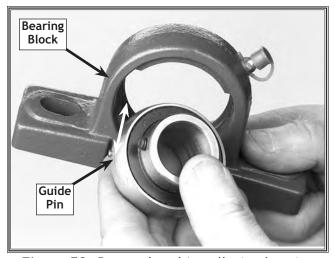


Figure 59. Removal and installation bearing positioning.



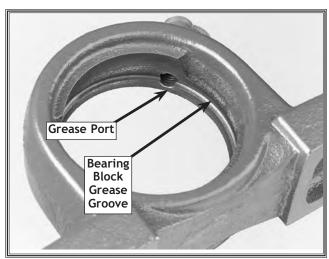


Figure 60. Bearing-block grease grove and grease port.

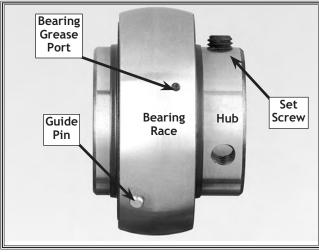


Figure 61. Key bearing parts.

- 7. Remove any metal or abrasives trapped in the bearing grease groove and grease port, or contaminants will be pumped into the new bearing when you lubricate it, causing bearing failure. Figure 60.
- **8.** Clean and inspect the bearing-block for cracks, burrs, wear, and other damage; replace/repair as required.

The "bearing race" should rotate inside of the "bearing block" smoothly. If the race is loose or wobbles inside of the bearing block, replace the bearing block. See **Figure 61**.

NOTICE

Make sure the bearing grease hole in the bearing lines up with the grease groove in the bearing block and that no obstructions prevent bearing lubrication.

- Insert the new bearing into the bearing-block so when the bearing block is installed in the sander, the grease zerk is facing forward and the set screws and hub are on the right-side of the bearing housing. See Figures 57 and 61.
- **10.** Slide (**DO NOT** hammer) the bearing block and bearing onto the drum shaft.
- 11. Lower the drum and bearing-block onto the mounting studs, and install the flat washers and the nuts. Tighten the nuts in an alternating pattern until snug.
- 12. Install and tighten the set screws.
- 13. Wipe the zerk fitting clean, and lubricate the bearing with just enough grease to slightly seep from the dust seal and wipe clean (these bearings are not pre-lubricated). DO NOT over-grease.
- **14.** Repeat **Steps 3** through **13** on all other bearings that need replacement. Always replace both bearings on the same drum.
- **15.** Adjust the **Drums and Pressure Rollers** as outlined in the **Adjustments** section, on **Page 14**.



General Cleaning

DO NOT use a mineral-spirit solvent or chlorine-based cleaner to clean a painted or plastic surface, or the rubber conveyor belt. If you do, you will permanently ruin the surface.

To clean dust from the sander, do these steps:

- 1. Unplug the double drum sander.
- 2. Put on your safety glasses and dust mask.
- **3.** Turn the dust collector *ON*, and use a hand brush and vacuum or compressed air to carefully blow out built up sawdust.
- **4.** With the dust collector *OFF*, dampen a cloth with warm water and mild dish soap, and wipe dusty surfaces clean.

To clean grease from the sander, do these steps:

- 1. Unplug the double drum sander.
- **2.** Use mineral spirits to remove the excess grease on the metal parts, and follow all manufacturer's safety warnings.
- **3.** Coat the cleaned metal surface with an application of SLIP-IT®.
 - For long term storage you may want to consider products like Boeshield® T-9.
- **4.** Lubricate as outlined in the Lubrication procedures on Page 30.

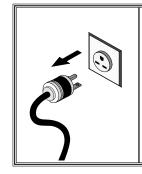




W1678 26" Double Drum Sander Drive System Wiring Diagram

WARNING

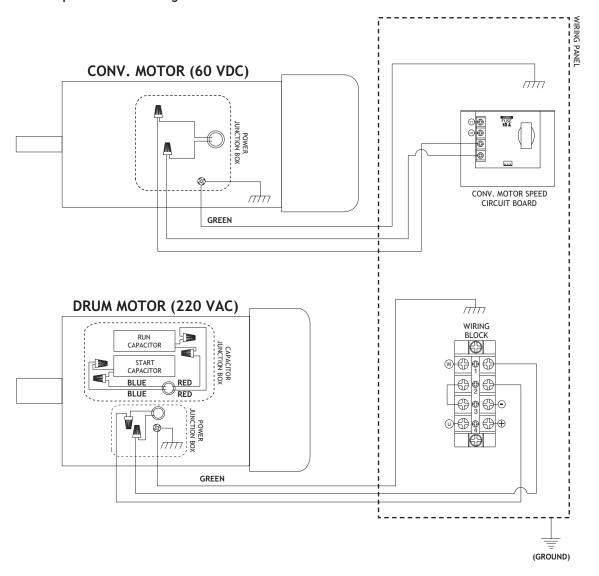
Seek assistance from a qualified electrician if you do not understand the wiring diagram in this manual. Always follow the applicable electrical codes and standards. Otherwise serious personal injury or death may occur!



AWARNING

Keep your machine unplugged during all service and wiring procedures. Otherwise serious personal injury may occur!

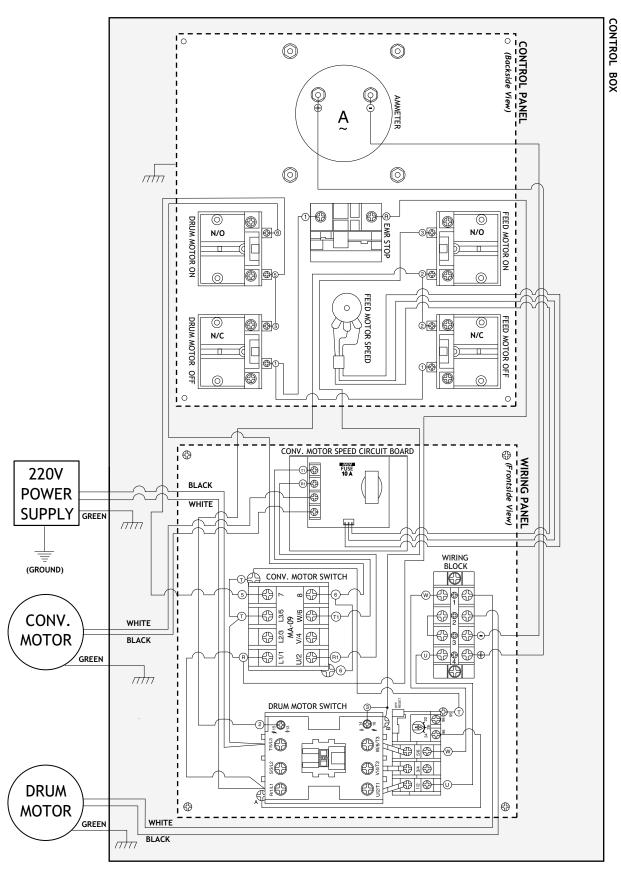
NOTE: The motor power-supply wires in the POWER JUNCTION BOX besides the green wire are interchangeable. Therefore, motor wire colors are not specified on this diagram.







W1678 26" Double Drum Sander Control System Wiring Diagram





CLOSURE

The following pages contain parts diagrams/lists and a warranty card for your SHOP FOX® Model W1678.

If you need parts or help in assembling your machine, or if you need more operational information, we encourage you to call our Service Department. Our trained service technicians will be glad to help you.

If you have comments dealing specifically with this manual, please write to us using the address in the General Information. The specifications, drawings, and photographs illustrated in this manual represent the Model W1678 as supplied when the manual was prepared. However, due to Woodstock International, Inc.'s policy of continuous improvement, changes may be made at any time with no obligation on the part of Woodstock International, Inc. Whenever possible, though, we send manual updates to all owners of a particular tool or machine that have registered their purchase with our warranty card. Should you receive one, add the new information to this manual and keep it for reference.

We have included some important safety measures that are essential to the operation of the machine. While most safety measures are generally universal, we remind you that each workshop is different and safety rules should be considered as they apply to your specific situation.

We recommend you keep this manual for complete information regarding Woodstock International, Inc.'s warranty and return policy. Should a problem arise, we recommend that you keep your proof of purchase with your manual. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department at 1-360-734-3482 or e-mail: tech-support@shopfox.biz.

Additional information sources are necessary to realize the full potential of this machine. Trade journals, woodworking magazines, and your local library are good places to start.

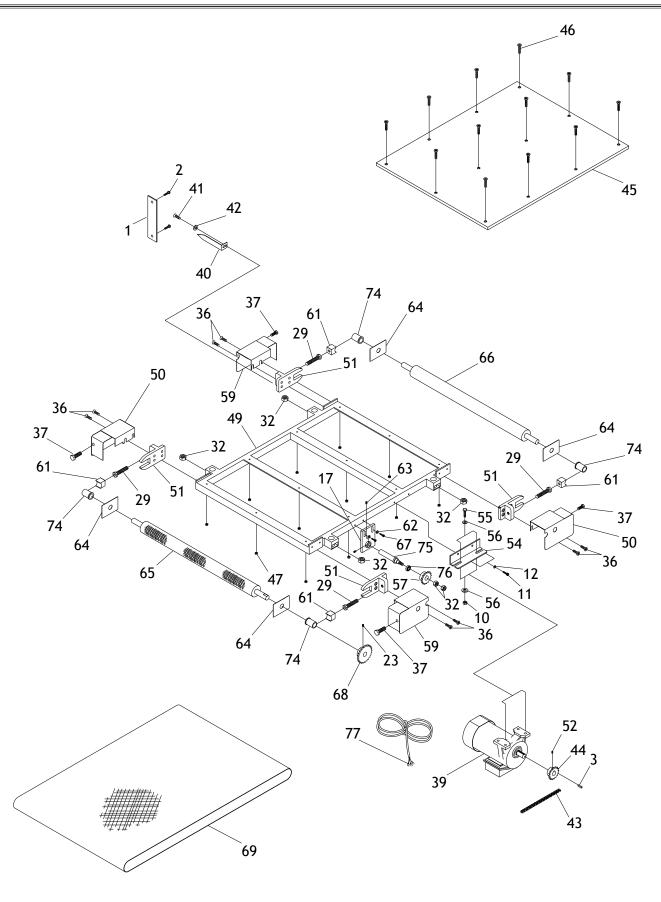
The Model W1678 is specifically designed for sanding operations. DO NOT MODIFY AND/OR USE THIS MACHINE FOR ANY OTHER PURPOSE. MODIFICATIONS OR IMPROPER USE OF THIS TOOL WILL VOID THE WARRANTY. If you are confused about any aspect of this machine, DO NOT use it until all your questions have been answered.

WARNING

Operating this equipment has the potential for flying debris to cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).





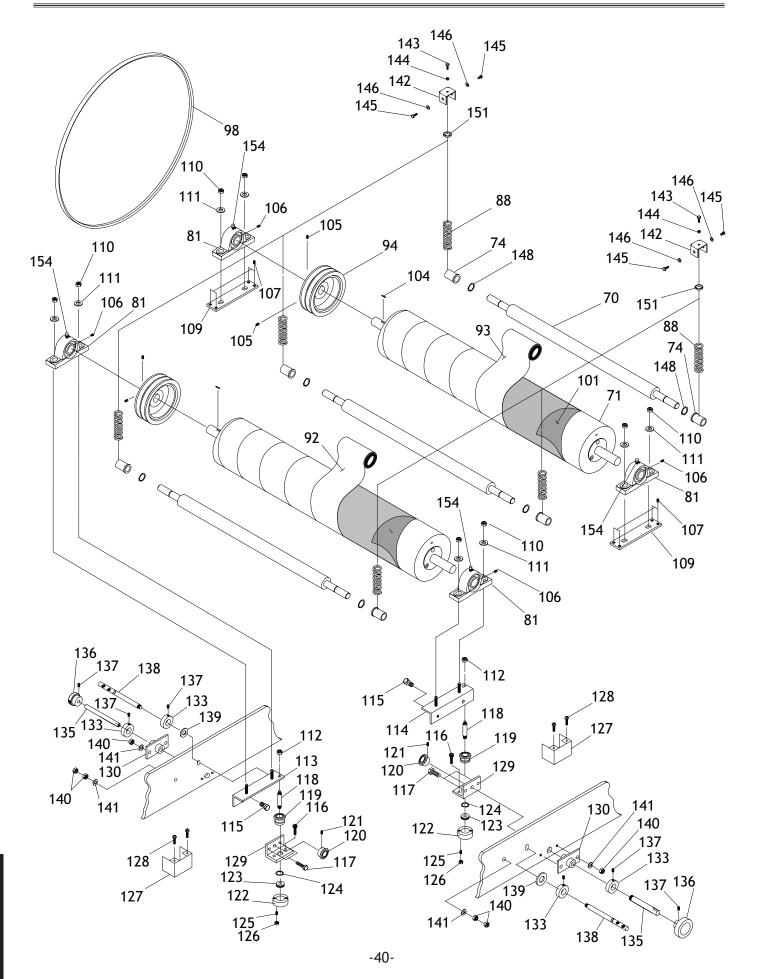




REF	PART #	DESCRIPTION	
1	X1678001	SCALE	
2	XPHTEK7	SELF TAP SCREW #8 X 3/8"	
3	XPK34M	KEY 5 X 5 X 20MM	
10	XPN02	HEX NUT 5/16"-18	
11	XPSB05	CAP SCREW 1/4"-20 X 3/4"	
12	XPW06	FLAT WASHER 1/4"	
17	X1678017	ADJUSTMENT PLATE	
23	XPSS08	SET SCREW 5/16"-18 X 1/2"	
29	X1678029	SPECIAL BOLT	
32	XPN03	HEX NUT 3/4"-16	
36	XPSB05	CAP SCREW 1/4"-20 X 3/4"	
37	XPS06	PHLP HD SCR #10-24 X ³ / ₈ "	
39	X1678039	¹/₃ HP FEED BELT MOTOR	
40	X1678040	POINTER	
41	XPS07	PHLP HD SCR 1/4"-20 X 3/8"	
42	XPW06	FLAT WASHER 1/4"	
43	X1678043	DRIVE CHAIN	
44	X1678044	SPROCKET 16-TEETH	
45	X1678045	TABLE	
46	XPFH12	FLAT HD SCREW 1/4"-20 X 1"	
47	XPLN02	LOCK NUT 1/4"-20	
49	X1678049	TABLE FRAME	

REF	PART #	DESCRIPTION	
50	X1678050	LEFT ROLLER-END GUARD	
51	X1678051	ROLLER BRACKET	
52	XPSS11	SET SCREW 1/4"-20 X 1/4"	
54	X1678054	MOTOR BRACKET	
55	XPB12	HEX BOLT 5/16"-18 X 1-1/4"	
56	XPW07	FLAT WASHER 5/16"	
57	X1678057	SPROCKET 16-TEETH	
59	X1678059	RIGHT ROLLER-END GUARD	
61	X1678061	BUSHING SUPPORT	
62	XPW06	FLAT WASHER 1/4"	
63	XPSS05	SET SCREW 5/16"-18 X 1/4"	
64	X1678064	PLATE	
65	X1678065A	DRIVE ROLLER	
66	X1678065B	IDLER ROLLER	
67	XPB05	HEX BOLT 1/4"-20 X 3/4"	
68	X1678068	SPROCKET 24-TEETH	
69	X1678069	CONVEYOR BELT	
74	X1678074	BUSHING	
75	X1678075	SPROCKET SHAFT	
76	XP6201	BALL BEARING 6201	
77	X1678077	VS MOTOR CORD 5' 14-GA	





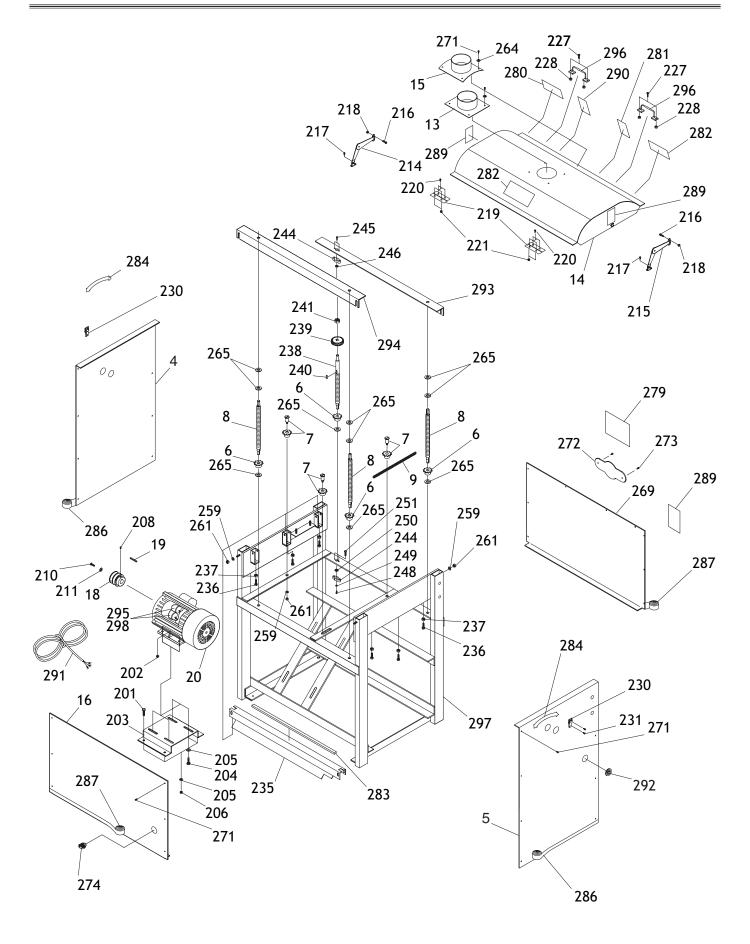
ARTS



REF	PART #	DESCRIPTION	
70	X1678070	PRESSURE ROLLER	
71	X1678071	SANDING DRUM	
74	X1678074	BUSHING	
81	X1678081	BEARING BLOCK	
88	X1678088	COMPRESSION SPRING	
92	X1678092	FINE SNDPPR 3" X 195"	
93	X1678093	COARSE SNDPPR 3" X 195"	
94	X1678094	DRUM PULLEY	
98	X1678098	V-BELT B-67	
101	X1678092A	HOOK-AND-LOOP DRUM COVER	
104	XPK10	KEY 1/4" X 1/4" X 1-1/4"	
105	XPSS09	SET SCREW ³ / ₈ "-16 X ¹ / ₂ "	
106	XPSS02M	SET SCREW M6-1.0 X 6	
107	XPSS08	SET SCREW ⁵ / ₁₆ "-18 X ¹ / ₂ "	
109	X1678109	ADJUST PLATE	
110	XPLN01	LOCK NUT 3/8"-16	
111	XPW02	FLAT WASHER 3/8"	
112	XPLN02	LOCK NUT 1/4"-20	
113	X1678113	LEFT FLANGE	
114	X1678114	RIGHT FLANGE	
115	X1678115	SPECIAL BOLT	
116	XPSB01	CAP SCREW 1/4"-20 X 5/8"	
117	XPSB12	CAP SCREW 5/16"-18 X 1-1/4"	
118	X1678118	AXLE	
119	X1678119	BEVEL GEAR	
120	X1678120	BEVEL GEAR	
121	XPSS29	SET SCREW 10-24 X 1/4"	
122	X1678122	THRUST BEARING SEAT	

REF	PART #	DESCRIPTION
123	X1678123	THRUST BEARING 51101
124	XPR09M	EXT RETAINING RING 20MM
125	XPSS34	SET SCREW #10-24 X ¹ / ₂ "
126	XPN11	HEX NUT #10-24
127	X1678127	DUST COVER
128	XPHTEK6	SELF TAP SCREW #10 X ³ / ₈ "
129	X1678129	GEAR MOUNTING BRACKET
130	X1678130	DRIVE SHAFT BRACKET
133	X1678133	LOCK COLLAR
135	X1678135	DRIVE SHAFT
136	X1678136	MICRO-ADJUST KNOB
137	XPSS04	SET SCREW 1/4"-20 X 5/16"
138	X1678138	LOCK LEVER 5/16" X 18
139	XPW07	FLAT WASHER 5/16"
140	XPN02	HEX NUT 5/16"-18
141	XPW07	FLAT WASHER 5/16"
142	X1678142	BRACKET
143	XPB02	HEX BOLT 1/4" -20 X 5/8"
144	XPN05	HEX NUT 1/4"-20
145	XPB51	HEX BOLT 1/4"-20 X 3/8"
146	XPW06	FLAT WASHER 1/4"
148	XPR08M	EXT RETAINING RING 19MM
151	X1678151	SPRING GUIDE
154	X1678154	GREASE ZERK W/CAP
-	D3162	60-GRIT SNDPPR 3" X 50'
-	D3163	100-GRIT SNDPPR 3" X 50'
-	D3164	150-GRIT SNDPPR 3" X 50'



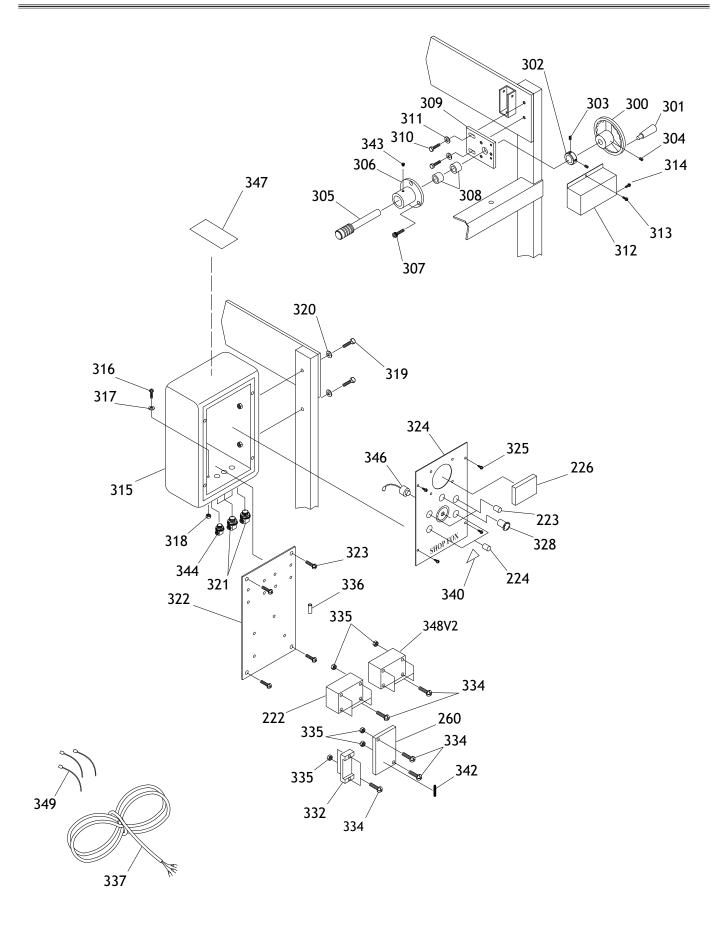




REF	PART #	DESCRIPTION	
4	X1678004	SIDE PANEL	
5	X1678004A	SIDE PANEL	
6	X1678006	SPROCKET 10-TEETH	
7	X1678007	SPROCKET W/SHAFT	
8	X1678008	TABLE LEAD SCREW 3/4"-16	
9	X1678009	ELEVATION CHAIN	
13	X1678013	DUST PORT (FLAT BASE)	
14	X1678014	HOOD	
15	X1678013A	DUST PORT (CURVED BASE)	
16	X1678016	REAR PANEL	
18	X1678018	MOTOR PULLEY	
19	XPK23M	KEY 5 X 5 X 25MM	
20	X1678020	5-HP MOTOR	
201	XPB18	HEX BOLT 3/8"-16 X 1"	
202	XPN08	HEX NUT 3/8"-16	
203	X1678203	BRACKET	
204	XPB18	HEX BOLT 3/8"-16 X 1"	
205	XPW02	FLAT WASHER 3/8"	
206	XPN08	HEX NUT 3/8"-16	
208	XPSS07	SET SCREW 1/4"-20 X 1/2"	
210		HEX BOLT M8-1.25 X 24MM	
211	XPW02	FLAT WASHER 3/8"	
214	X1678214	RIGHT HOOD ARM	
	X1678215	LEFT HOOD ARM	
216	XPS17M	PHLP HD SCR M4-0.7 X 6MM	
217	XPHTEK7	SELF TAP SCREW #8 X 3/8"	
218	XPN04M	HEX NUT M4-0.7	
219	X1678219	HINGE	
220	XPS38M	PHLP HD SCR M4-0.7 X 10MM	
221	XPLN01M	LOCK NUT M4-0.7	
1	XPSB07	CAP SCREW 5/16"-18 X 3/4"	
	XPN02	HEX NUT 5/16"-18	
	X1678230	LATCH	
231		SELF TAP SCREW #8 X 3/8"	
235		DUST SCOOP	
236		HEX BOLT 1/4"-20 X 5/8"	
	XPN05	HEX NUT 1/4"-20	
238	X1678238	TABLE LEAD SCREW 3/4"-16	

REF	PART #	DESCRIPTION	
239	X1678239	GEAR 25-TEETH	
240	XPK06M	KEY 5 X 5 X 10MM	
241	XPLN06	LOCK NUT 1/2"-13	
	X1678244	BEARING SEAT	
245	XPB51	HEX BOLT 1/4"-20 X 5/8"	
246	X1678246	BEARING TA-810	
_	XPS01	PHLP HD SCR #10-24 X 1/2"	
	X1678249	SPRING WASHER 3/16"	
250	X1678250	BEARING 698	
251	XPB05	HEX BOLT 1/4"-20 X 3/4"	
259	XPW07	FLAT WASHER 5/16"	
261	XPN02	HEX NUT 5/16"-18	
	XPW18	FLAT WASHER 3/16"	
	XPW01	FLAT WASHER 1/2"	
	X1678269	FRONT PANEL	
271	XPHTEK7	SELF TAP SCREW #8 X 3/8"	
	X1678272	LOGO (SHOP FOX)	
	X1678273	LOGO SCREW #4-3/8"	
	XPSW10	STRAIN RELIEF 3/4"	
	X1678279	LABEL (MACHINE DATA)	
	X1678280	LABEL (KEEP HANDS)	
	X1678281	LABEL (DUST MASK)	
	X1678282	LABEL (DO NOT STAND)	
	X1678283	ADHESIVE FOAM SRIP	
	X1678284	LABEL (DOWN/UP)	
286		LEFT/RIGHT COLOR-STRIPE	
	X1678287	FRONT/REAR COLOR STRIPE	
289	X1678289	LABEL (UNPLUG SANDER)	
290		LABEL (SAFETY GLASSES)	
	X1678291	220V MTR CORD 5' 12-GA	
	X1678292	GROMMET 30MM	
	X1678293	FRONT BRACE	
	X1678294	REAR BRACE	
	X1678020-2		
1	X1678296	HANDLE	
		FRAME	
298	X1678020-1	START CAPACITOR	







REF	PART #	DESCRIPTION
222	X1678222	MAGNETIC SWITCH
223	X1678223	ON SWITCH
224	X1678224	OFF SWITCH
226	X1678226	LOAD AMP METER
260	X1678260	VS MOTOR CIRCUIT BOARD
300	X1678300	CRANK
301	X1678301	HANDLE
302	X1678302	COLLAR
303	XPSS11	SET SCREW 1/4"-20 X 1/4"
304	XPSS08	SET SCREW ⁵ / ₁₆ "-18 X ¹ / ₂ "
305	X1678305	WORM GEAR 10 TEETH
306	X1678306	SHAFT MOUNT
307	XPSB05	CAP SCREW 1/4"-20 X 3/4"
308	X1678308	BUSHING
309	X1678309	ADJUSTMENT PLATE
310	XPB18	HEX BOLT ³ / ₈ "-16 X 1"
311	XPW02	FLAT WASHER 3/8"
312	X1678312	DUST COVER
313	XPS06	PHLP HD SCR #10-24 X ³ / ₈ "
314	XPS06	PHLP HD SCR #10-24 X ³ / ₈ "
315	X1678315	CONTROL BOX
316	XPS01	PHLP HD SCR #10-24 X ¹ / ₂ "
317	XPLWO3	LOCK WASHER 3/16"

REF	PART #	DESCRIPTION
318	XPN07	HEX NUT #10-24
319	XPB58	HEX BOLT 3/8"-16 X 2"
320	XPW07	FLAT WASHER 3/8"
321	XPSW10	STRAIN RELIEF 3/4"
322	X1678322	WIRING PANEL
323	XPS17M	PHLP HD SCR M4-0.7 X 6MM
324	X1678324	CONTROL PANEL
325	XPS06	PHLP HD SCR #10-24 X ³ / ₈ "
328	X1678328	EMERGENCY STOP SWITCH
332	X1678332	WIRING BLOCK
334	XPS22	PHLP HD SCR #10-24 X ⁵ / ₈ "
335	XPN07	HEX NUT #10-24
336	X1678336	CABLE MARKER
337	X1678337	MAIN PWR CBL 14' 12-GA
340	X1678348	LABEL (ELECTRICITY)
342	X1678350	FUSE ³ / ₄ " 10A, 250V
343	X1678351	DUST PLUG
344	X1678352	STRAIN RELIEF 5/8"
346	X1678346	RHEOSTAT
347	X1678347	LABEL (READ MANUAL)
348V2	X1678348V2	CONTACTOR SDE MA-09 220V
349	X1678349	NYLON CABLE TIES



NOTES

CUT ALONG DOTTED LINE

Warranty Registration

Nan	ne					
	eet					
		State				
		Email				
Mod	del #Serial #	Dealer Name	Purchase Date			
	The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential .					
1.	How did you learn about us?AdvertisementMail Order Catalog	Friend Website	Local Store Other:			
2.	How long have you been a wo	oodworker/metalworker? _ 2-8 Years8-20 Year	rs20+ Years			
3.	How many of your machines o	·	10+			
4.	Do you think your machine re	presents a good value? Y	/es No			
5.	Would you recommend Shop F	Fox products to a friend? Y	/es No			
6.	What is your age group?20-2950-59	30-39 60-69	40-49 70+			
7.	What is your annual household \$20,000-\$29,000 \$50,000-\$59,000		\$40,000-\$49,000 \$70,000+			
8.	Which of the following magaz	rines do you subscribe to?				
	Cabinet Maker Family Handyman Hand Loader Handy Home Shop Machinist Journal of Light Cont. Live Steam Model Airplane News Modeltec Old House Journal	Popular Mechanics Popular Science Popular Woodworking Practical Homeowner Precision Shooter Projects in Metal RC Modeler Rifle Shop Notes Shotgun News	Today's Homeowner Wood Wooden Boat Woodshop News Woodsmith Woodwork Woodwork Woodworker's Journal Other:			
9.	Comments:					
_						

FOLD ALONG DOTTED LINE			
			Place Stamp Here
	SHOP FOX		
	WOODSTOCK INTERNATIONAL INC. P.O. BOX 2309 BELLINGHAM, WA 98227-2309		
	Haladadadadallaalada	.11.111.1111.1.1.1.1	ll

FOLD ALONG DOTTED LINE

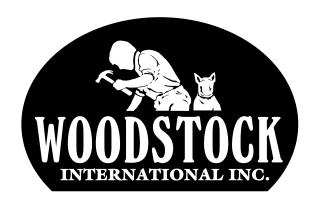
WARRANTY

Woodstock International, Inc. warrants all Shop Fox machinery to be free of defects from workmanship and materials for a period of two years from the date of original purchase by the original owner. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, lack of maintenance, or reimbursement of third party expenses incurred.

Woodstock International, Inc. will repair, replace, or arrange for a dealer refund, at its expense and option, the Shop Fox machine or machine part proven to be defective for its designed and intended use, provided that the original owner returns the product prepaid to an authorized warranty or repair facility as designated by our Bellingham, Washington office with proof of their purchase of the product within two years, and provides Woodstock International, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Woodstock International Inc.'s warranty, then the original owner must bear the cost of storing and returning the product.

This is Woodstock International, Inc.'s sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that Shop Fox machinery complies with the provisions of any law, acts or electrical codes. We do not reimburse for third party repairs. In no event shall Woodstock International, Inc.'s liability under this limited warranty exceed the purchase price paid for the product, and any legal actions brought against Woodstock International, Inc. shall be tried in the State of Washington, County of Whatcom. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products.

Every effort has been made to ensure that all Shop Fox machinery meets high quality and durability standards. We are committed to continuously improving the quality of our products, and reserve the right to change specifications at any time.



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