

READ THIS FIRST

Model W1710

IMPORTANT UPDATE

Applies to Models Mfd. Since 02/22
and Owner's Manual Revised 09/05

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



We made the following change to this machine since the manual was printed:

- The upper frame cover now has (2) 5" dust ports welded to it.

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.

New Frame Cover & Dust Ports



Old Frame Cover & Dust Ports



Revised Specifications

Product Dimensions

Height 68 in.

Shipping Dimensions

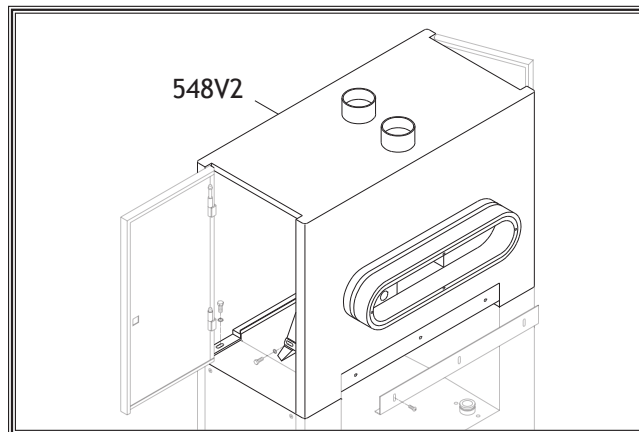
Height 78 in.

Main Specifications

Other Related Information

Dust Port Size 5 in.

Revised Parts



REF	PART #	DESCRIPTION
548V2	X1710548V2	UPPER FRAME COVER V2.02.22

COPYRIGHT © JANUARY, 2022 BY WOODSTOCK INTERNATIONAL, INC.

WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM WITHOUT THE WRITTEN APPROVAL OF WOODSTOCK INTERNATIONAL, INC.

#22220CS

Printed in Taiwan

ASSEMBLY

Unpacking

This machine has been carefully packaged for safe transportation. If you notice the machine has been damaged during shipping, please contact your authorized Shop Fox dealer immediately.

Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

Note: *If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.*

Inventory (Figure 1):	Qty
A. Sanding Belt 100-Grit	1
B. Sanding Belt 150-Grit	1
C. Spare Fuses 4A (Inside Electrical Box)	2
D. Tool Box	1
– Phillips Head Screwdriver #2.....	1
– Flat Head Screwdriver 1/4"	1
– Open-End Wrenches 8/10, 12/14, 17/19mm ..	1 Ea.
– Metric Hex Wrench Set (10-Pc.1.5-10mm).....	1
– Square-Key Door Handles.....	2
– Ceramic Wear Rods	2
– Flexible Grease Gun Extension	1

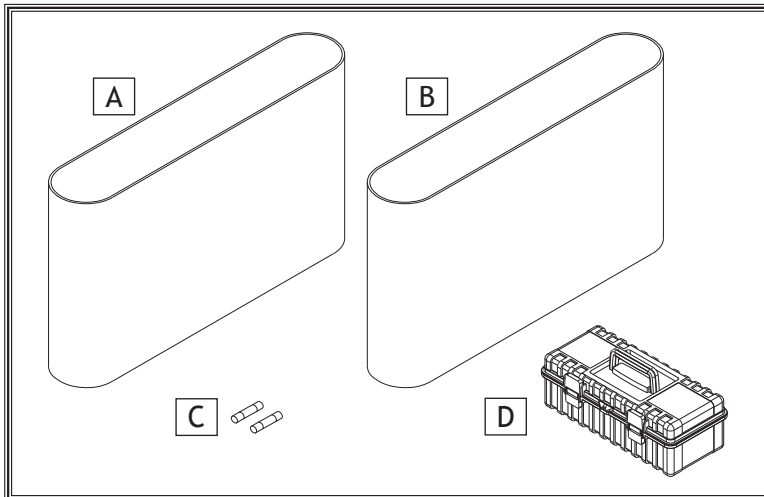



Figure 1. Inventory.



!WARNING
This machine presents serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the machine!



!WARNING
Wear safety glasses during entire setup process!

!WARNING



HEAVY LIFT!
Straining or crushing injury may occur from improperly lifting machine or some of its parts. To reduce this risk, get help from other people and use a forklift (or other lifting equipment) rated for weight of this machine.

Shipping Plug

The Model W1710 has a shipping plug installed in the vent for the gear reducer.

Remove this plug before using your sander (see **Figure 2**); otherwise the gear oil will expand with heat and the seals in the gear reducer may leak due to the pressure build up.

You may want to retain this plug if you plan on storing your sander for a long period of time.

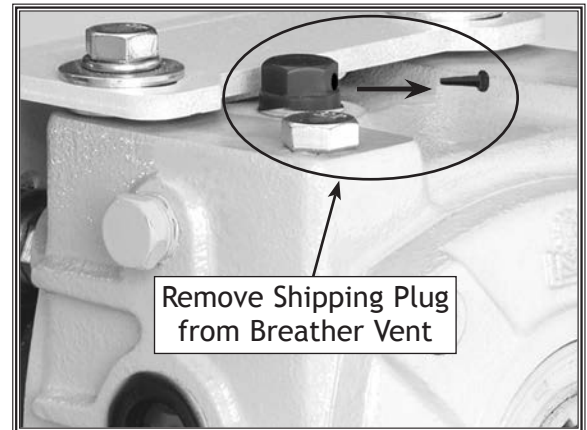


Figure 2. Shipping plug removal.

Dust Collection

Recommended CFM at Dust Ports: 1200 CFM

Do not confuse this CFM recommendation with the rating of the dust collector. To determine the CFM at the dust port, you must consider these variables: (1) CFM rating of the dust collector, (2) hose type and length between the dust collector and the machine, (3) number of branches or wyes, and (4) amount of other open lines throughout the system. Explaining how to calculate these variables is beyond the scope of this manual. Consult an expert or purchase a good dust collection “how-to” book.

Items Needed	Qty
Dust Collection System	1
Dust Hoses 5"	2
Hose Clamps 5"	2

To connect dust collection hoses, do these steps:

1. Fit 5" dust hoses over dust ports, as shown in **Figure 3**, and secure them in place with hose clamps.
2. Tug hoses to make sure they do not come off.

Note: A tight fit is necessary for proper performance.

⚠ CAUTION

This machine creates substantial amounts of dust during operation. Breathing airborne dust on a regular basis can result in permanent respiratory illness. Reduce your risk by wearing a respirator and capturing the dust with a dust collection system.



Figure 3. Dust collection hoses attached to dust ports.

High Quality Machines and Tools

Woodstock International, Inc. carries thousands of products designed to meet the needs of today's woodworkers and metalworkers. Ask your dealer about these fine products:



PRO-STIK®
ABRASIVE BELT & DISC CLEANER

BROSNA®
PRECISION STOP BLOCK

PARROT VISE®

THE REBEL®

Aluma-Classic®

STEELEX®
FINE TOOLS

PLANER PAL®

JOINTER PAL®

STEELEX®
PLUS

Rotacator®

slickplane®

ACCU-SHARP®
BOARD BUDDIES®

WHOLESALE ONLY

WOODSTOCK®
INTERNATIONAL INC.

Phone: (360) 734-3482

Fax: (360) 671-3053

Toll Free Fax: (800) 647-8801

P.O. Box 2309, Bellingham, WA 98227

woodstockint.com

READ THIS FIRST

Model W1710

IMPORTANT UPDATE

Applies to Models Mfd. Since 1/14
and Owner's Manual Revised 9/05

Phone #: (360) 734-3482 • Tech Support: tech-support@shopfox.biz • Web: www.shopfox.biz



We made the following changes to the Model W1710 since the original manual was printed:

- Obtained CSA certification meeting CSA C22.2 #105-1953 and UL 987-7th standards.
- Added and changed components inside the electrical box.
- Updated warning instructions.
- Changed machine wiring.
- Replaced oscillation diaphragm (P/N 485) with an air cylinder (P/N 485V2).
- Updated air flow parts diagram and list.

Note: At the top of each page is a note that indicates which page it replaces in the original manual. New parts are designated with a "V2".

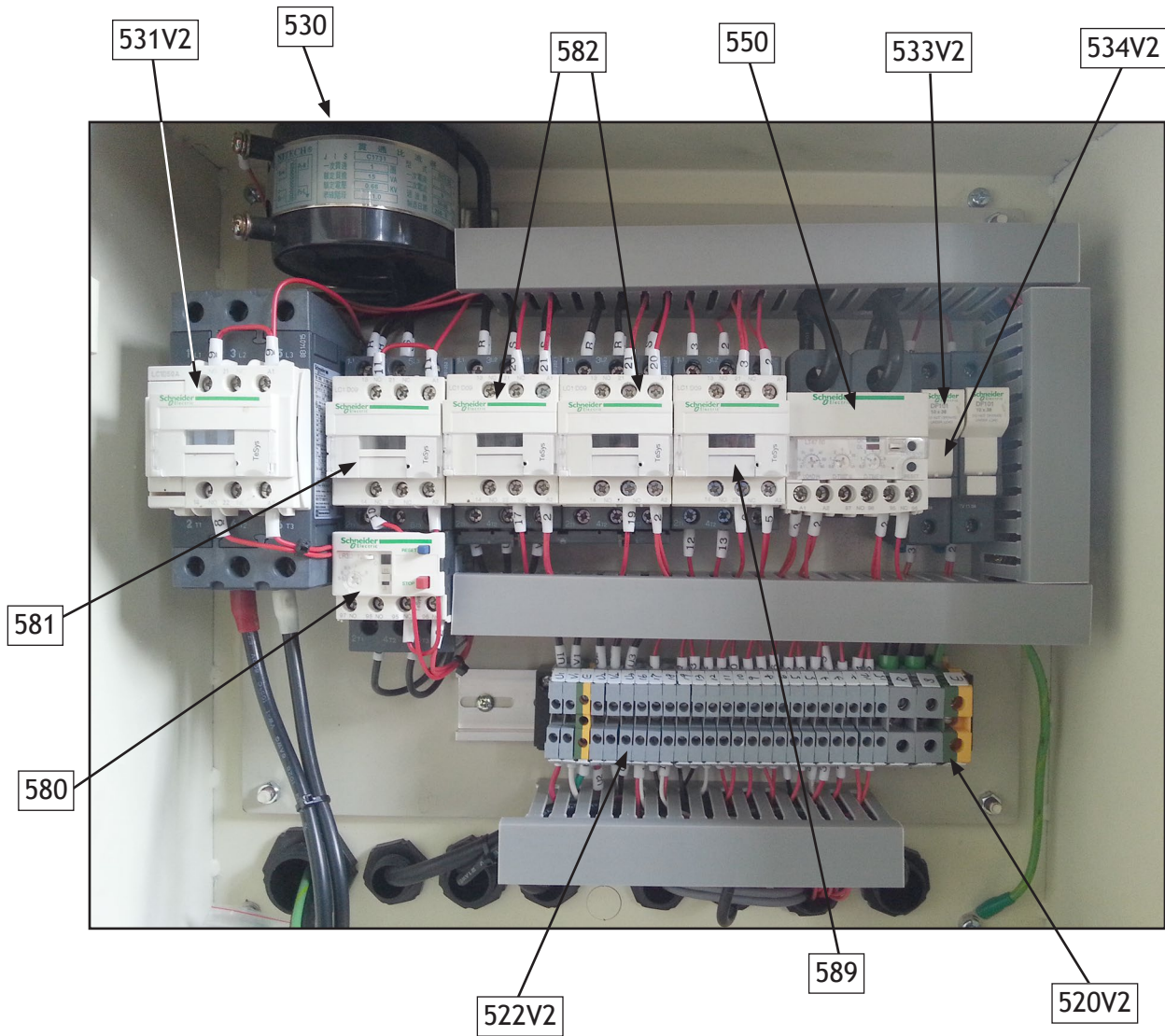
Aside from the information contained in this update, all other content in the owner's manual is applicable and **MUST** be read and understood for your own safety. **IMPORTANT:** Keep this update with the owner's manual for future reference. If you have any further questions, contact our Technical Support.



COPYRIGHT © MAY, 2014 BY WOODSTOCK INTERNATIONAL, INC.

WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE OR FORM WITHOUT THE WRITTEN APPROVAL OF WOODSTOCK INTERNATIONAL, INC., #16564TS, Printed in Taiwan

Changed Electrical Cabinet Components (Changes to Page 44-45)



REF	PART #	DESCRIPTION
520V2	X1710520V2	INCOMING POWER TERMINAL BAR 3P V2.01.14
522V2	X1710522V2	TERMINAL BAR 24P V2.01.14
530	X1710530	CURRENT SENSOR NITECH C1731
531V2	X1710531V2	CONTACTOR SCHN LC1D50A 220V V2.01.14
533V2	X1710533V2	FUSE HOUSING SCHN DF101 V2.01.14
534V2	X1710534V2	FUSE 4A 10 X 38MM V2.01.14

REF	PART #	DESCRIPTION
550	X1710550	OL RELAY SCHN LT47 5-60A
580	X1710580	OL RELAY SCHN LR3D12 5.5-8A
581	X1710581	CONTACTOR SCHN LC1D09 220V
582	X1710582	CONTACTOR SCHN LC1D09 220V W/LOCK
589	X1710589	CONTACTOR SCHN LC1D09 220V

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!



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, **COULD** result in death or serious injury.



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.

EXPERIENCING 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 for Wide Belt Sanders

WARNING

Serious injury or death can occur from hands getting trapped between workpiece and conveyor table, getting entangled in rotating parts inside machine, or lacerated by sanding drum. Workpieces thrown by sander can strike nearby operators. Long-term respiratory damage can occur from using sander without proper use of a respirator and an adequate dust collection system. To minimize risk of getting hurt or killed, anyone operating machine **MUST** completely heed hazards and warnings below.

FEEDING WORKPIECE. DO NOT place fingers under bottom of workpiece while feeding it into sander. Fingers can become pinched between workpiece and conveyor.

ENTANGLEMENT HAZARDS. DO NOT wear loose clothing, gloves, or jewelry, and tie back long hair. Never reach inside operating machine or try clearing jammed workpiece. Keep all guards in place and secure, and all doors closed.

SANDING DRUM CONTACT. Rotating sandpaper can remove a large amount of flesh in a few seconds. Keep hands away from rotating sanding drum(s) during operation. Never touch moving sandpaper on purpose.

WORKPIECE KICKBACK. A workpiece can be ejected out the front of sander at high rate of speed, and hit operator or bystanders. Never stand in-line with workpiece, never feed more than one workpiece at a time, and always adjust pressure rollers below sanding roller.

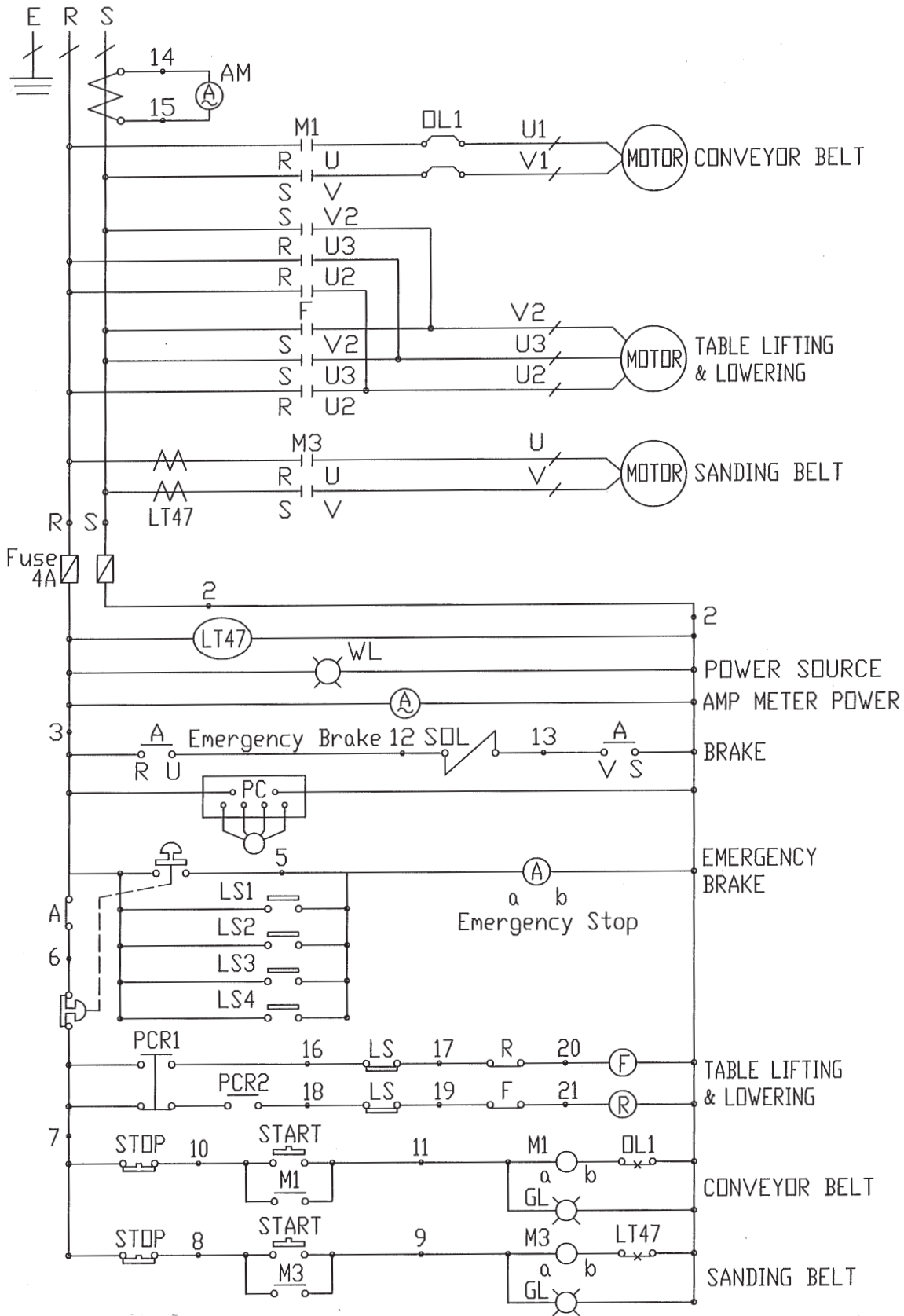
MINIMUM STOCK DIMENSION. To avoid kickback, never sand workpieces below minimum specifications listed in **Data Sheet**.

ADJUSTMENTS/MAINTENANCE. Make sure machine is turned **OFF**, disconnected from power and air, and all moving parts are completely stopped before doing adjustments or maintenance.

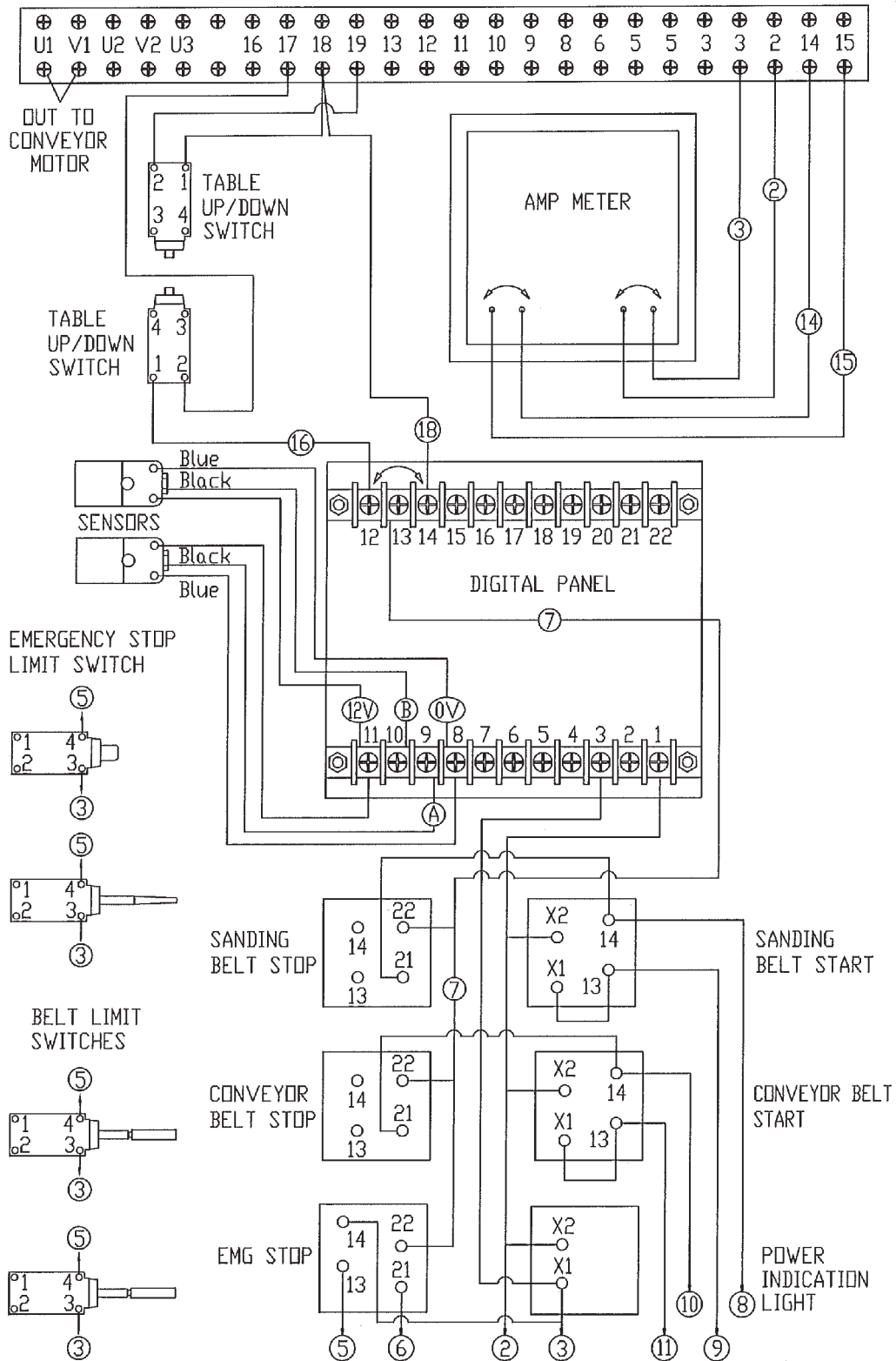
SANDING DUST. Sanding creates large amounts of dust and flying chips that can lead to eye injury or respiratory illness. Reduce risk of these hazards by wearing approved eye and respiratory protection when using sander.

DUST COLLECTION. Never operate without adequate dust collection system in place and running. Proper dust collection reduces dust in work area, which decreases risk of long-term respiratory damage, but it is not a substitute for using a respirator.

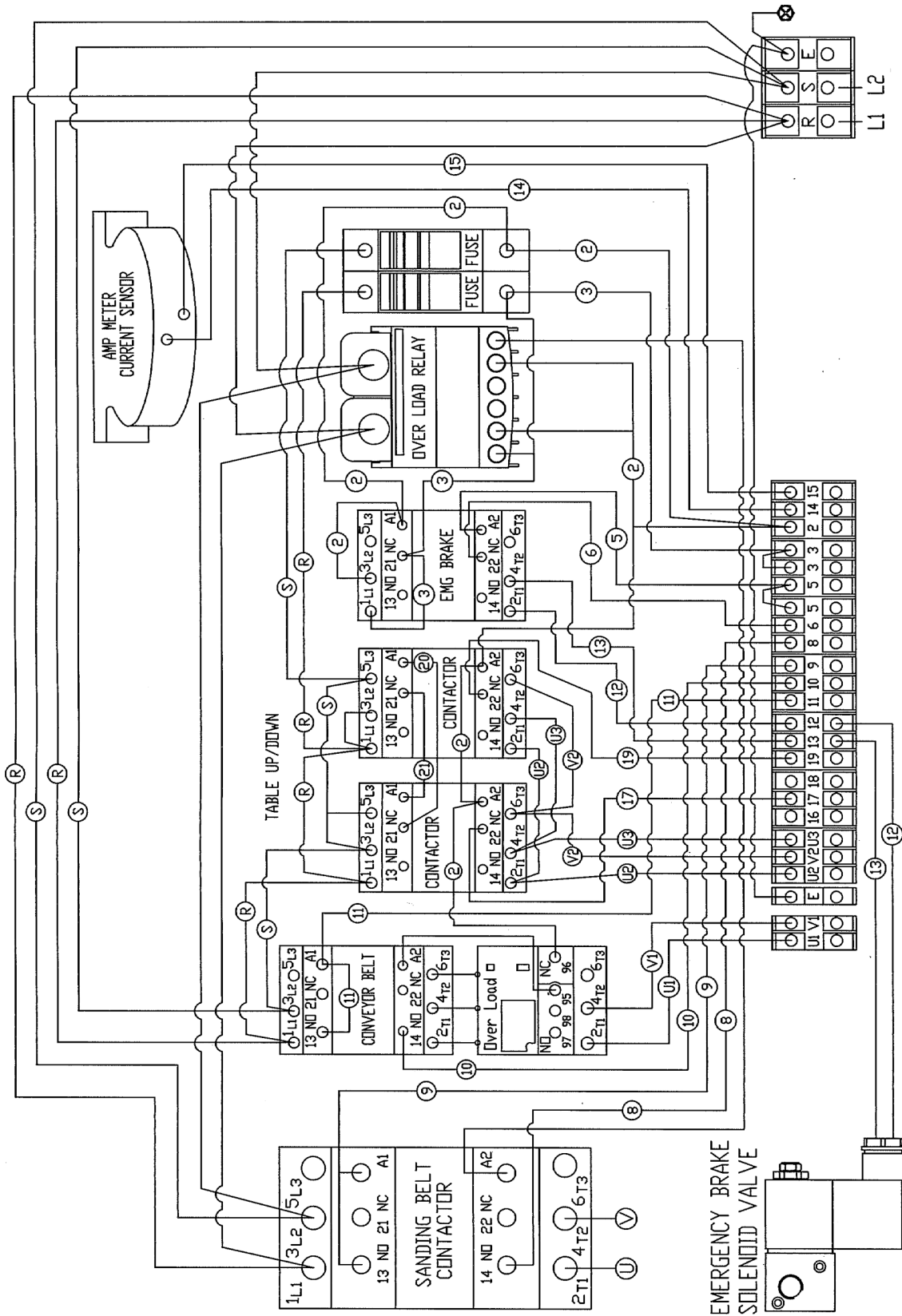
Electrical Schematic



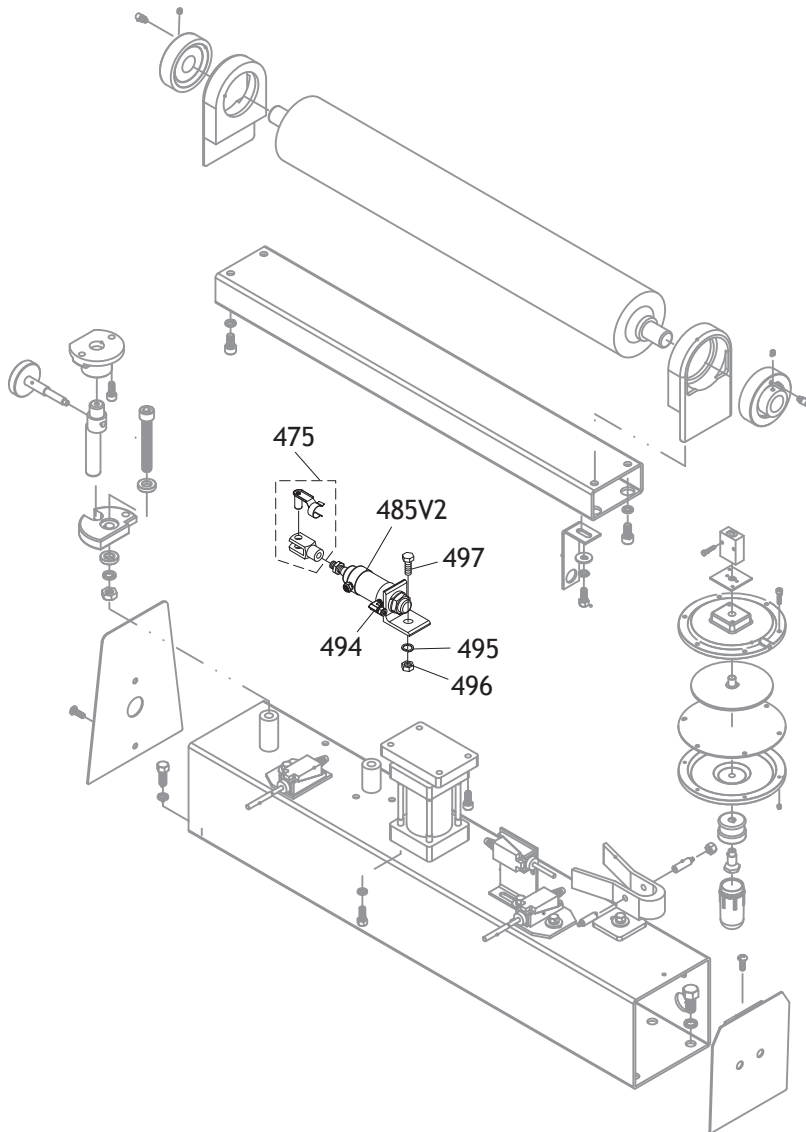
Control Panel Wiring



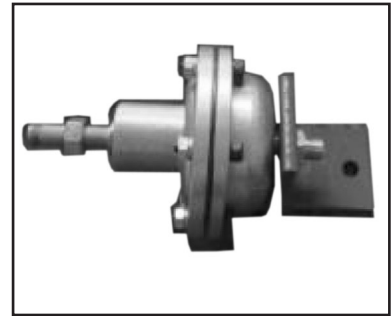
Electrical Cabinet



New Upper Roller Air Cylinder



Previous Version Diaphragm (P/N 485)



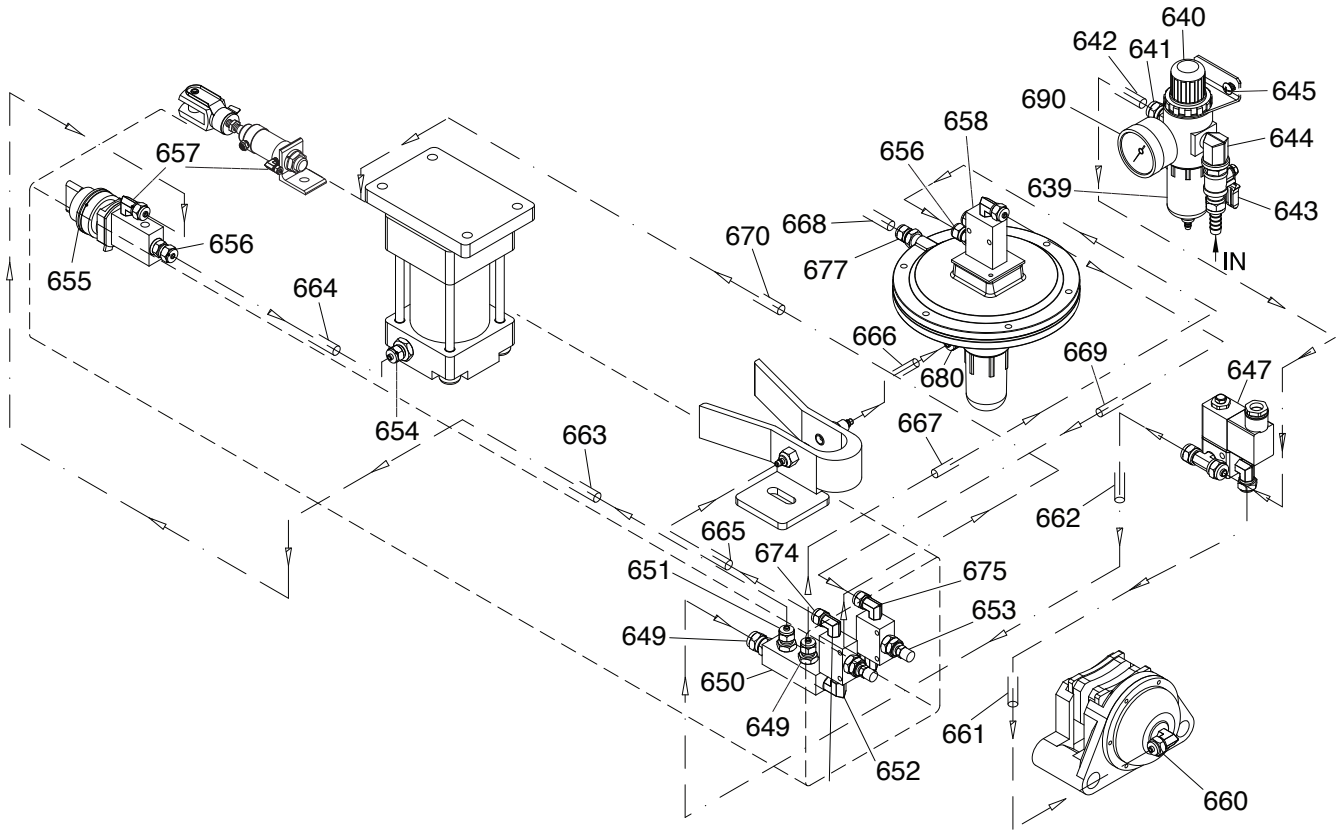
New Version Air Cylinder (P/N 485V2)



REF	PART #	DESCRIPTION
475	X1710475	UNIVERSAL JOINT FORK
485V2	X1710485V2	OSCILLATION AIR CYLINDER V2.01.14
494	X1710494	CONNECTOR 1/4N X 1/8T X 90 DEG

REF	PART #	DESCRIPTION
495	X1710495	LOCK WASHER 5/16
496	X1710496	HEX NUT 5/16-18
497	X1710497	HEX BOLT 5/16-18 X 1-1/2

Updated Air Flow Diagram



REF	PART #	DESCRIPTION
639	X1710639	FILTER CUP 1/4"
640	X1710640	PRESSURE REGULATOR 1/4"
641	X1710641	CONNECTOR 1/4T X 5/16N
642	X1710642	FLEXIBLE HOSE 8MM
643	X1710643	AIR VALVE 1/4"
644	X1710644	ELBOW
645	X1710645	PHLP HD SCR 10-24 X 1/2
647	X1710647	SOLENOID VALVE
649	X1710649	CONNECTOR 1/4N X 1/4T
650	X1710650	MULTIPLE HOLE CONNECTOR
651	X1710651	CONNECTOR 5/16N X 1/4T
652	X1710652	ELBOW 1/4T X 1/8T X 90DEG (BRONZE)
653	X1710653	THROTTLE VALVE 1/8"
654	X1710654	CONNECTOR 1/4N X 3/8T
655	X1710655	AIR SWITCH 1/8"
656	X1710656	CONNECTOR 1/4N X 1/8T
657	X1710657	CONNECTOR 1/4N X 1/8T X 90DEG

REF	PART #	DESCRIPTION
658	X1710658	BUFFER 1/8" (BRONZE)
660	X1710660	CONNECTOR 5/16N X 1/8T X 90DEG
661	X1710661	FLEXIBLE HOSE 8MM
662	X1710662	FLEXIBLE HOSE 8MM
663	X1710663	FLEXIBLE HOSE 6MM
664	X1710664	FLEXIBLE HOSE 6MM
665	X1710665	FLEXIBLE HOSE 6MM
666	X1710666	FLEXIBLE HOSE 6MM
667	X1710667	FLEXIBLE HOSE 6MM
668	X1710668	FLEXIBLE HOSE 6MM
669	X1710669	FLEXIBLE HOSE 6MM
670	X1710670	FLEXIBLE HOSE 6MM
674	X1710674	CONNECTOR 1/4N X 1/8T X 90DEG
675	X1710675	CONNECTOR 1/4N X 1/8T X 90DEG
677	X1710677	CONNECTOR 1/4N
680	X1710680	CONNECTOR 1/4N X 1/8T
690	X1710690	PRESSURE GAUGE

Model W1710 24" Wide Belt Sander Manual Update (For Models Manufactured Since 11/07)



Phone #: (360) 734-3482 • Online Tech Support: tech-support@shopfox.biz • Web: www.shopfox.biz

Improvements to this machine were made since the manual was originally printed, and this update covers those changes. Keep this update with your owner's manual in case you ever need to refer to it. *If you have questions, contact Tech Support at (360) 734-3482 or by email at tech_support@shopfox.biz.*

New Electronic Overload Relay

We added a new electronic overload relay for the sanding belt motor inside the electrical box assembly, as shown in **Figure 1**. New wiring diagrams are shown on the following pages.

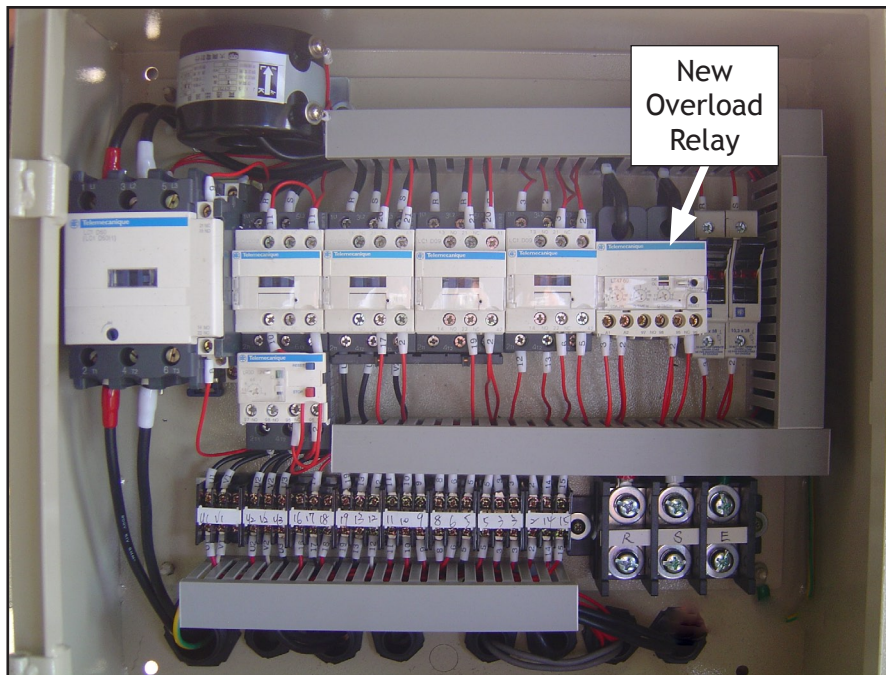
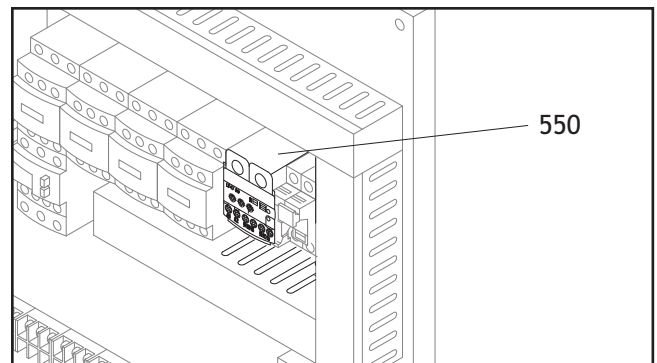


Figure 1. W1710 wiring box components.

The following part has been added:

REF	PART #	DESCRIPTION
550	X1689624	OL RELAY TELE TESYS-LT47 5-60A

Refer to the W1710 manual for the rest of the parts.



COPYRIGHT © NOVEMBER, 2007 BY WOODSTOCK INTERNATIONAL, INC. REVISED DECEMBER, 2009 (BL)

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

#10140BL

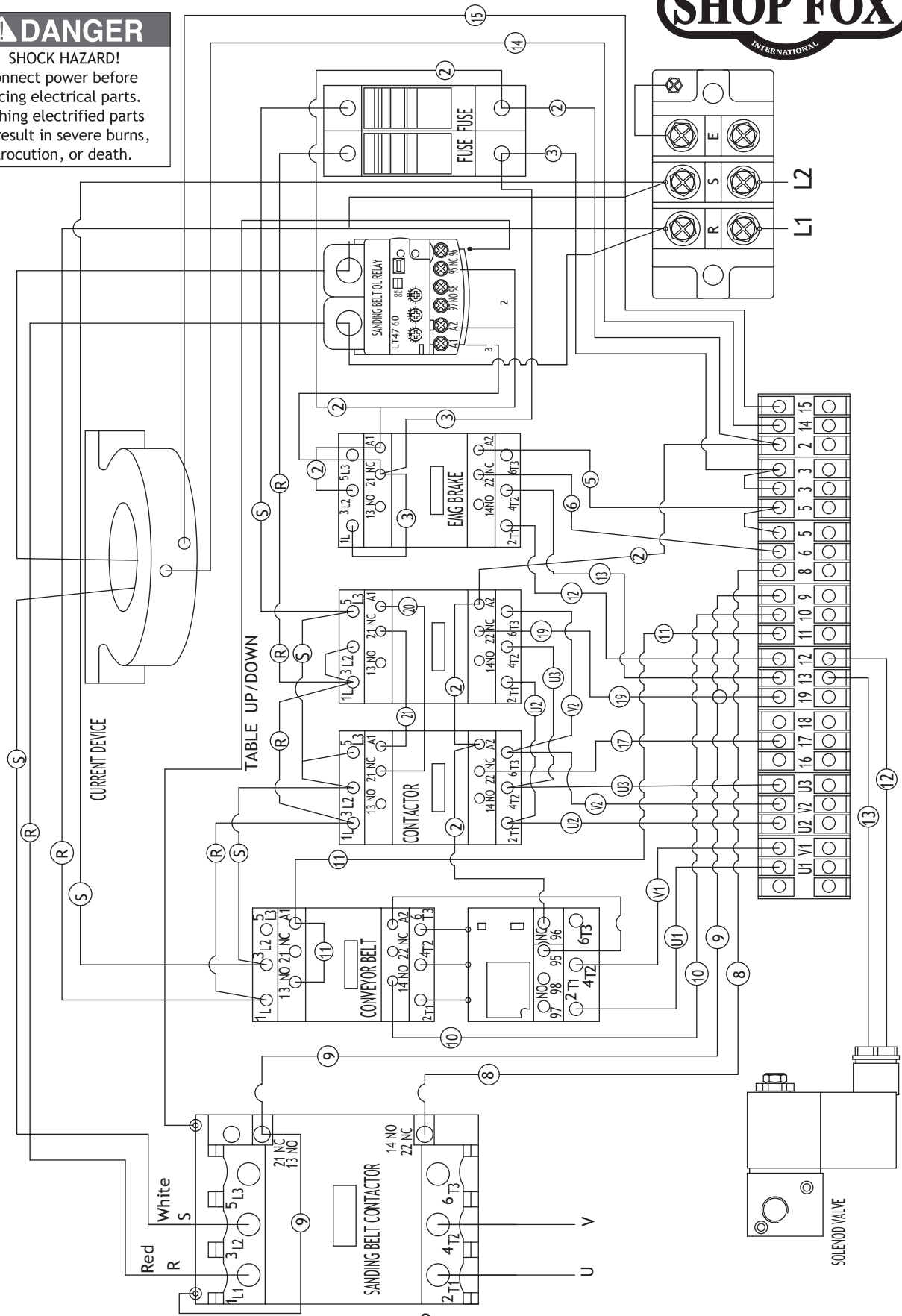
THE WRITTEN APPROVAL OF WOODSTOCK INTERNATIONAL, INC.

Printed in Taiwan

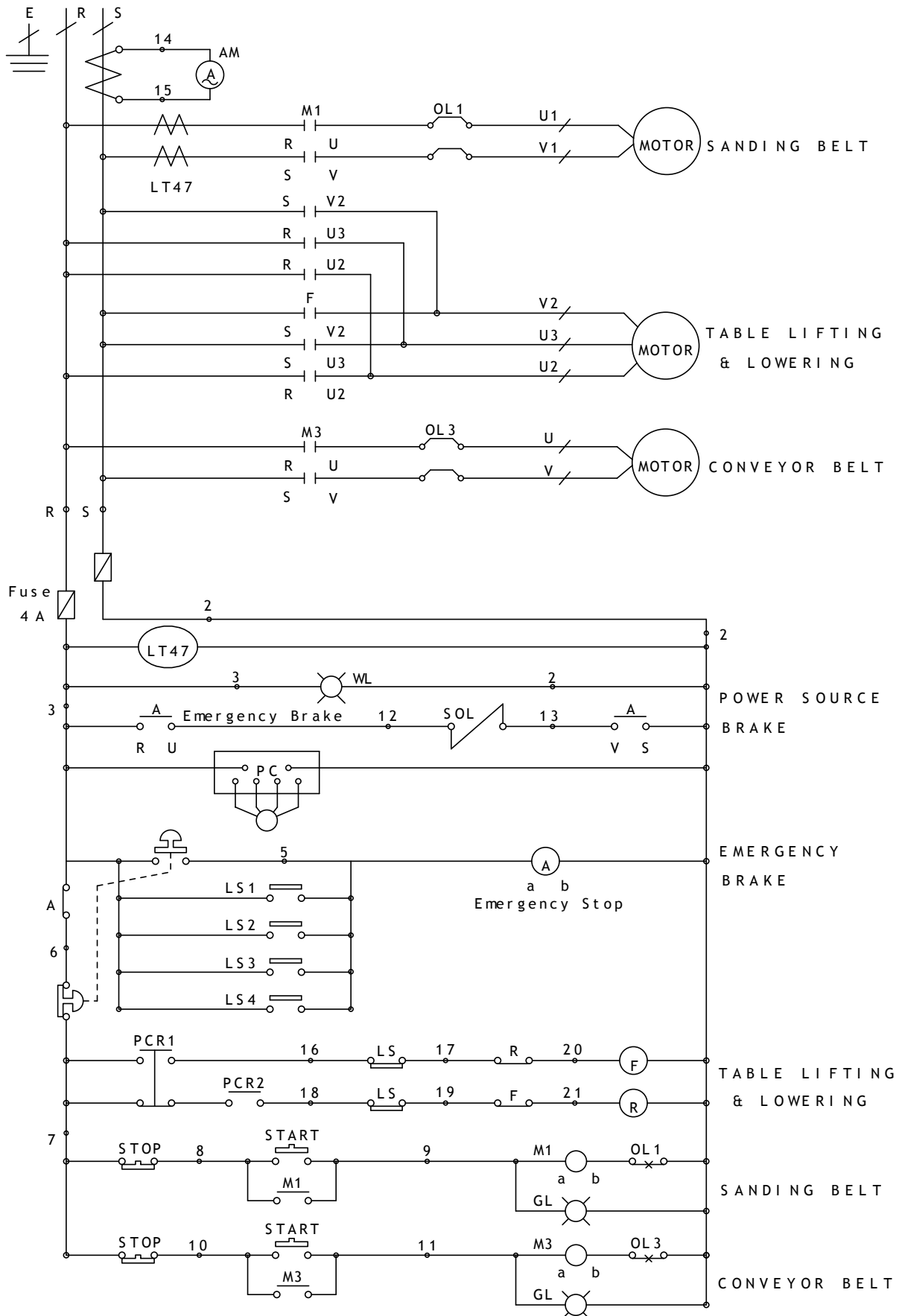
W1710 Wiring Diagram (11/2007)



⚠ DANGER
SHOCK HAZARD!
Disconnect power before servicing electrical parts. Touching electrified parts will result in severe burns, electrocution, or death.



W1710 Electrical Schematic (12/2009)





High Quality Machines and Tools

Woodstock International, Inc. carries thousands of products designed to meet the needs of today's woodworkers and metalworkers. Ask your dealer about these fine products:

BROSENA
PRECISION STOP BLOCK

JOINTER PAL[®]

Rotacator[®]

THE REBEL[®]

DURASTICK[®]

Gutmann[®]

BOARD BUDDIES[®]



Junglee[®]

PLANER PAL[®]

PARROT VISE[®]

SLICKPLANE[®]

PRO-STIK[®]
ABRASIVE BELT & DISC CLEANER

ACCU-SHARP[®]

Aluma-Classic[®]



STEELEX[®]
FINE TOOLS

STEELEX[®]
PLUS



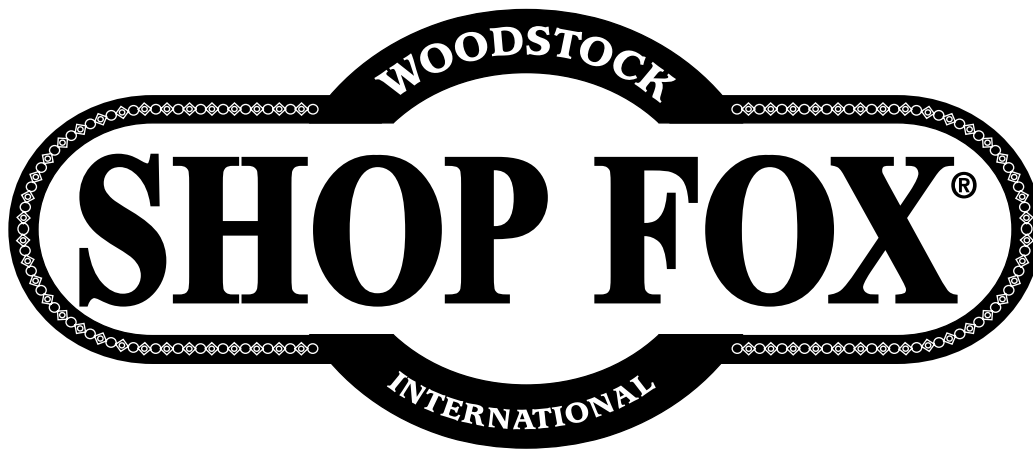
WHOLESALE ONLY

WOODSTOCK INTERNATIONAL, INC.

Phone: (360) 734-3482 • Fax: (360) 671-3053 • Toll Free Fax: (800) 647-8801

P.O.Box 2309 • Bellingham, WA 98227

SHOPFOX.BIZ



MODEL W1710 24" WIDE BELT SANDER



INSTRUCTION MANUAL

Phone: 1-360-734-3482 • On-Line Technical Support: tech-support@shopfox.biz

COPYRIGHT © SEPTEMBER, 2003/ UPDATED SEPTEMBER, 2005 BY WOODSTOCK INTERNATIONAL, INC.

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

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 respirators that are specially designed to filter out microscopic particles.

Contents

Introduction	2
About Your New Sander	2
Woodstock Service and Support	2
Warranty	3
Specifications	3
SAFETY FIRST!	4
Standard Safety Instructions	4
Additional Safety Instructions for Sanders	6
Avoiding Potential Injuries	7
Electrical Requirements	8
220V Operation	8
Extension Cords	8
Grounding	8
ASSEMBLY	9
Unpacking	9
Box Contents	9
Shop Preparation	10
Cleaning Machine	10
Air Hose Installation	11
Sanding Belt Installation	11
Shipping Plug	12
Dust Collection	12
ADJUSTMENTS	13
General Information	13
Jet Air Flow	13
Belt Tracking	14
Belt Tracking Safety Switch	16
Belt Tension Safety Switch	16
Pressure Rollers	17
V-Belt Tension	18
OPERATIONS	21
General Operation and Test Run	22
Setting Feed Speed	23
Using the Amp Draw Meter	23
Emergency Stop	24
Keypad and Display	24
Calibrating the Table	24
Basic Sanding	25
MAINTENANCE	26
General	26
Lubrication	26
Sanding Belts	27
Servicing Separators	27
Servicing Brake	28
Changing V-Belts	29
Troubleshooting	30
W1710 Wiring Diagram	31
W1710 Control Panel Wiring Connections	32
W1710 Switch Box Wiring Connections	33
Safety Label Placement	48
Accessories	50
Warranty Registration	51



INTRODUCTION

About Your New Sander

Your new **SHOP FOX**® Sander has been specially designed to provide many years of trouble-free service. Close attention to detail, ruggedly built parts and a rigid quality control program assure safe and reliable operation.

The Model W1710 has a numeric control pad and digital readout that provide the ultimate in precision and ease-of-use required by professional woodworking shops. Combined with a powerful 10 HP motor, variable feed rate, and 24" wide capacity, this wide-belt sander utilizes single phase power for shops where 3-phase power is unavailable. Other features include independent motor controls, quick-change belt--system with automatic belt tensioning, air-controlled automatic belt tracking system. You will also enjoy a machine with motorized table height control, adjustable air-controlled belt oscillation, a load meter, emergency safety shut off bar, built-in air regulator and filter, and dual dust ports.

Woodstock International, Inc. is committed to customer satisfaction in providing this manual. It is our intent to make sure all the information necessary for safety, ease of assembly, practical use and durability of this product be included.

If you need the latest edition of this manual, you can download it from <http://www.shopfox.biz>.
If you still have questions after reading the latest manual, or if you have comments please contact us at:

Woodstock International, Inc.
Attn: Technical Support Department
P.O. Box 2309
Bellingham, WA 98227

Woodstock Service and Support

We stand behind our machines! In the event that a defect is found, parts are missing or questions arise about your machine, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz. Our knowledgeable staff will help you troubleshoot problems, send out parts or arrange warranty returns.

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 or replace, at its expense and at its option, the **SHOP FOX®** machine or machine part which in normal use has proven to be defective, provided that the original owner returns the product prepaid to the **SHOP FOX®** factory service center or authorized repair facility designated by our Bellingham, WA 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 or acts. In no event shall Woodstock International, Inc.'s liability under this 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 reserve the right to change specifications at any time because of our commitment to continuously improve the quality of our products.

Specifications

Sanding Motor	10 HP, 50 Amp, 220V, Single-Phase
Sanding Motor Speed	1,725 RPM
Feed Motor	1 HP, 7 Amp, 220V, Single-Phase
Feed Motor Speed	1,725 RPM
Elevation Motor	1/3 HP, 3 Amp, 220V, Single-Phase
Elevation Motor Speed	1,725 RPM
Drum Speed	3,550 FPM
Drum Diameter	77/8"
Feed Rates	143/4 to 49 FPM
Sanding Belt Size	25" x 60"
Total Amps (All motors under maximum load)	60 Amps
Maximum Sanding Width	243/8"
Maximum Sanding Thickness	6"
Minimum Stock Length	10"
Minimum Stock Thickness	1/8"
Footprint	391/4" wide x 191/4" deep
Height (With dust ports installed)	71"
Operating Air Pressure	57 PSI
Dust Ports (Two)	4"
Machine Weight	1,650 lbs

SAFETY FIRST!

**READ MANUAL BEFORE OPERATING MACHINE.
FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL
RESULT IN PERSONAL INJURY.**



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, **COULD** result in death or serious injury.



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

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

Standard Safety Instructions


1. **Thoroughly read the instruction manual before operating your machine.** Learn the applications, limitations and potential hazards of this machine. Keep manual in a safe, convenient place for future reference. Make sure any other operators have read and understand the manual as well.
2. **Keep work area clean and well lighted.** Clutter and inadequate lighting invite potential hazards.
3. **Ground all tools.** If a machine is equipped with a three-prong plug, it must be plugged into a three-hole grounded electrical outlet or grounded extension cord. If using an adapter to aid in accommodating a two-hole receptacle, ground using a screw to a known ground.
4. **Wear eye protection at all times.** Use safety glasses with side shields or safety goggles that meet the national safety standards, while operating this machine.
5. **Avoid dangerous environments.** Do not operate this machine in wet or open flame environments. Airborne dust particles could cause an explosion and severe fire hazard.
6. **Ensure all guards are securely in place and in working condition.**
7. **Make sure switch is in the "OFF" position** before connecting power to machine.
8. **Keep work area clean, free of clutter, grease, etc.**
9. **Keep children and visitors away.** Visitors should be kept at a safe distance away while operating unit.
10. **Childproof workshop with padlocks, master switches or by removing starter keys.**
11. **Disconnect machine when cleaning, adjusting or servicing.**

12. **Do not force the machine.** The machine will do a safer and better job if it does the work.
13. **Use the correct tool.** Do not force the tool or attachment to do a job for which it was not designed.
14. **Wear proper apparel.** Do not wear loose clothing, gloves, jewelry, keep long hair tied up, etc.
15. **Remove adjusting keys and wrenches.** Before turning the machine on, make a habit of checking that all adjusting keys and wrenches have been removed before turning the machine *ON*.
16. **DO NOT use extension cord.** Due to the high-amperage draw of this industrial machine, we do not recommend using an extension cord. If you use an extension cord with an undersized gauge or one that is too long, excessive heat will be generated within the circuit increasing the chance of a fire or damage to the circuit.
17. **Keep stable footing and balance** at all times.
18. **Do not leave machine unattended.** Wait until it comes to a complete stop before leaving the area.
19. **Perform machine maintenance and care.** Follow lubrication and accessory attachment instructions in the manual.
20. **Keep machine away from open flame.** Operating machines near pilot lights and/or open flames creates a high risk if dust is dispersed in the area. Dust particles and an ignition source may cause an explosion. Do not operate the machine in high-risk areas, including but not limited to, those mentioned above.
21. **If at any time you are experiencing** difficulties performing the intended operation, stop using the machine! Then contact our Service Department or ask a qualified expert how the operation should be performed.
22. **Habits—good and bad—are hard to break.** Develop good habits in your shop and safety will become second-nature to you.



Additional Safety Instructions for Sanders

SAFETY

 <p>SHOP FOX MODEL W1710 24\" Wide Belt Sander INSTRUCTION MANUAL</p>	<p>! WARNING 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!</p>
---	--

<p>! CAUTION 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 and/or poor work results.</p>
--

1. **Always wear a respirator.** Sanding operations create large amounts of fine dust. Some types of dust may cause allergic reactions or respiratory problems. In addition to wearing a respirator, always use a dust collector and overhead air filter for maximum protection.
2. **Do not allow your fingers to get pinched between the board and the conveyor belt during feeding.** The grip of the conveyor belt may pull the operator's hand into the machine and cause serious injury or death. Similarly, do not place hands near the sanding belts during operation.
3. **Know the limits of the sander.** Do not sand stock thinner than $\frac{1}{8}$ " or shorter than 10".
4. **Never perform sanding operations with the access doors open.**
5. **Always inspect stock for staples, nails, dirt or other foreign objects before sanding.** These items may cause damage to your sander or may even be thrown at a high rate of speed from the sander at the operator.
6. **Never allow anyone to stand directly in front or behind the path of the stock as it is being fed through the sander.** The stock may be ejected at a high rate of speed and could cause serious injury to the operator or bystanders.
7. **Treat your sander with respect.** Do not force stock into the sander during operation or overload the sanding drums beyond reasonable limits. Also, only sand natural wood fiber through your sander. Other materials may damage your machine and open the possibility for operator injury. Keep the internal components clean and lubricated to ensure that the sander can perform the way it was intended.
8. **Never operate the sander without a working dust collection system.** The sander is designed to properly do its job only when wood dust is being evacuated. The buildup of too much wood dust in the internal components will cause performance problems and may increase the likelihood of operator injury.
9. **Wear the proper clothing during all operation and adjustments.** Loose clothing or long hair creates the potential for operator injury because they can easily be caught in the moving parts of the machine. Roll up loose sleeves, tie back long hair and take any other necessary steps to reduce this hazard.

Avoiding Potential Injuries



Figure 1. Correct body and hand positioning.



Figure 2. DO NOT operate without safety glasses/respirator!



Figure 3. DO NOT stand behind workpiece!



Figure 4. DO NOT operate with side door open!



Figure 5. DO NOT allow hand to get pinched in belt!

ELECTRICAL REQUIREMENTS

220V Operation

The SHOP FOX® Model W1710 has a 10 HP, 220V single-phase sanding motor, a 1 HP, 220V feed motor, and a 1/3 HP table lift motor.

Use a 60 amp circuit breaker and a circuit that has wiring rated to handle this amperage draw. Keep in mind that a circuit being used by other machines or tools at the same time will add to the total load being applied. Add up the load ratings of all machines on the circuit. If this number exceeds the rating of the circuit breaker or wiring, use a different circuit.

Extension Cords

DO NOT use an extension cord for 220V high amperage industrial shop machines. We recommend following all local electrical codes and using a direct hard wired power supply that is protected by a circuit breaker and is equipped with a kill switch lever that can be locked in the **OFF** position.

Grounding

This machine must be grounded! Hardwire this machine into a power supply circuit that contains a ground circuit. If you have any questions about correct electrical installation, contact a qualified electrician for assistance to make sure all connections are safe and adhere to your local electrical codes.

	<p>⚠ WARNING</p> <p>TURN-OFF and LOCK your master power switch so no power is available to the sander before connecting electrical wires! If you ignore this warning serious electrical shock may occur causing injury or death!</p>
--	---

	<p>⚠ WARNING</p> <p>Any electrical outlet and circuit that you plug your machine into must be grounded. Never remove the grounding pin from any plug, and always make sure all wiring to the machine is grounded before operating. Serious injury may occur if this warning is ignored!</p>
--	--

<p>⚠ CAUTION</p>	<p>DO NOT replace the circuit breaker with one rated at a higher amperage or damage to the circuit may occur.</p>
-------------------------	---

SAFETY

ASSEMBLY

Unpacking

The Model W1710 has been carefully packaged for safe transporting. If you notice the machine has been damaged, please contact Woodstock International Service and Support at 1-360-734-3482 or send e-mail to: tech-support@shopfox.biz.

Box Contents

The following is a description of the components shipped with the **SHOP FOX®** W1710. Lay the components out in a similar fashion to those in **Figure 7**. This will help in identification before beginning assembly. Should any part be missing, examine the packaging carefully. If any parts are missing, find the part number in the back of this manual and call Woodstock International, Inc. at 360-734-3482 or e-mail: tech-support@shopfox.biz.

Item	Qty.
Combination Wrench 8 x 10mm	(1)
Combination Wrench 12 x 14mm	(1)
Combination Wrench 17 x 10mm	(1)
Phillips Screwdriver	(2)
Standard Screwdriver	(2)
Hex Wrench Set (10-Piece 1.5-10mm)	(1)
Square-Key Door Handle	(2)
Sanding Belt	(2)
4-Amp Fuse Bag (Located Inside of Power Box)	(2)
Sander (Not Shown)	(1)
Tool Box (Not Shown)	(1)
Dust Port (Not Shown)	(2)
Dust Port Adapter (Not Shown)	(2)
Ceramic Wear Rods (Not Shown)	(2)

! WARNING
READ and understand this entire instruction manual before performing any operations with your machine. Personal injury may occur if safety and operational information is not understood and followed.

! WARNING
The Model W1710 is a heavy machine at 1,870 lbs. Use power or hydraulic equipment to avoid serious personal injury or death.




Figure 7. Parts shipped with the sander.

ASSEMBLY

Shop Preparation


- **Floor Load and Balance:** Your sander represents a large weight load in a small footprint. Most commercial floors are suitable for the sander. Some residential floors may require additional bracing to support both machine and operator. Make sure the sander operates on a level surface by placing a level gauge on the conveyor table and using a wrench to adjust the feet until the machine is level.
- **Working Clearances:** Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your sander.
- **Lighting and Outlets:** Lighting should be bright enough to eliminate shadows and prevent eye strain. Electrical circuits should be dedicated or large enough to handle amperage requirements. Outlets should be located near each machine so any power or extension cords are clear of high-traffic areas. Observe local electrical codes for proper installation of new lighting, outlets, or circuits.


	<p>⚠ CAUTION</p> <p>MAKE SURE that all entrances to your shop are locked or that machines are equipped with safety lock-out devices to protect curious children or visitors from serious injury. Never allow unsupervised people in your shop who have not been fully trained!</p>
---	---




Cleaning Machine

The upper roller of the Model W1710 is coated with a waxy grease that protects it from corrosion during shipment. This coating must be removed before using your sander.

Clean this grease off with a solvent cleaner or citrus-based degreaser. Do not use chlorine-based solvents—if you happen to splash some onto a painted surface, you will ruin the finish.

	<p>⚠ WARNING</p> <p>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!</p>
--	---

	<p>⚠ WARNING</p> <p>NEVER smoke when using solvents. Smoking may cause explosion or risk of fire when exposed to these products!</p>
---	---

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

Air Hose Installation

Push your air supply hose on to the air pressure regulator inlet fitting, and clamp it in place with a hose clamp as shown in **Figure 6**. If you prefer, you can replace the included air nozzle with a $\frac{3}{8}$ " male quick connect air coupling.

When the air hose is installed, pull up and rotate the regulator air pressure knob until the gauge reads 57 PSI then push down. **DO NOT** attempt to regulate the air pressure with the ON/OFF air supply lever. This control only shuts off air pressure to the machine.

NOTICE

To achieve maximum life of the air system o-rings, gaskets, and components, keep the air pressure shut off when not using the sander, and **DO NOT** exceed 75 PSI.

Sanding Belt Installation

Before installing belt, clean the protective grease from the upper metal sanding belt roller as per the "Cleaning Machine" instructions.

To install the sanding belt, do these steps:

1. **TURN-OFF** and **LOCK** your master power switch, but keep the air pressure going into the machine.
2. Turn and remove the lever and support spacer. See **Figure 7**.
3. Install the sanding belt so the belt is centered in the fork (see **Figure 8a**), and the belt arrows are pointing in the direction of drum rotation (see **Figure 8**).
4. Center the belt on the rollers.
5. Reinstall the support spacer and lever.
6. Turn the belt tension knob to the 12:00 position and the belt will automatically tighten to the correct tension. At 9:00 the belt will have no tension.

NOTICE

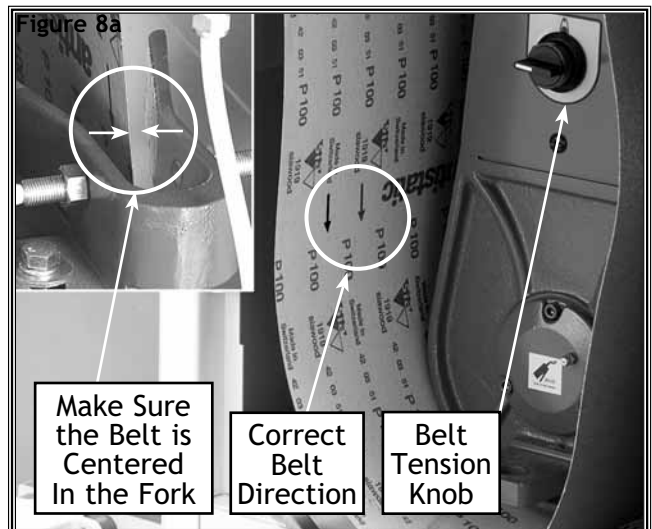
TENSION the sanding belt before starting the sander, and **DE-TENSION** the belt when sander is not in use, or you will damage the belt.



Figure 6. Air hose attached to regulator.



Figure 7. Lever removal/installation.



Make Sure the Belt is Centered in the Fork

Correct Belt Direction

Belt Tension Knob

Figure 8. Installing sanding belt left and right machine view.

Shipping Plug

The Model W1710 has a shipping plug installed in the vent plug for the gear reducer.

Remove this plug before using your sander (see **Figure 9**); otherwise the gear oil will expand with heat and the seals in the gear reducer may leak due to the pressure build up.

You may want to retain this plug if you plan on storing your sander for a long period of time.

Dust Collection

The Model W1710 features two dust ports and adapters located on top of the machine as shown in **Figures 10** and **11**. Before performing any sanding operations, attach the dust ports to a 2HP or better dust collector, which can draw at least 1,500 CFMs, or dust buildup will hinder the performance of your sander.

Even with a sufficient dust collection system, a fine layer of dust may still be present on your stock as it comes out of the sander. This residual dust is a normal condition.

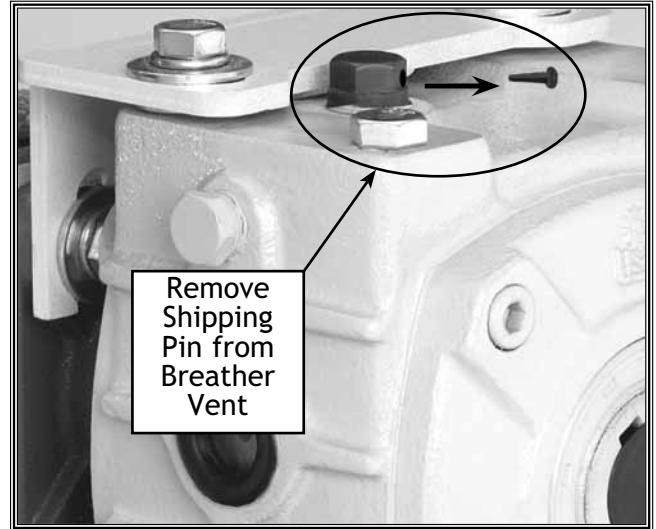


Figure 9. Shipping plug removal.



Figure 10. Dust collection adapters.



Figure 11. Dust collection hose attached to dust port.

ASSEMBLY

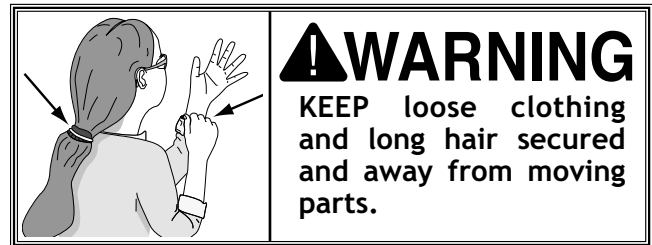
	<p>CAUTION DONOT operate this machine without an adequate dust collection system. This machine creates substantial amounts of wood dust while in operation. Failure to use a dust collection system can result in short and long-term respiratory illness.</p>
--	---

	<p>CAUTION ALWAYS wear your respirator in addition to using a dust collector. This machine produces sawdust that may cause allergic reactions or respiratory problems.</p>
--	---

ADJUSTMENTS

General Information

The adjustments in this section have been factory set and generally do not need to be performed when you first receive your sander. However, before operating your sander become familiar with these adjustments, as they will help you achieve the sanding results you want.



Jet Air Flow

The air jet located at the air fork sends a stream of air across the air fork and into the air stream receiver. See **Figure 12**. As soon as the sanding belt obstructs this stream of air, a piston changes the direction of belt movement to the left. Your goal is to adjust this stream of air so the system uses the least amount of air.

To adjust the jet air flow, do these steps:

1. **TURN-OFF** and **LOCK** your master power switch, but keep the air pressure going into the machine.
2. Make sure the air regulator is adjusted so that system air pressure is 57 PSI.
3. Open both upper access doors on the sander.
4. Loosen the sanding belt tension and slide the belt so the air stream is unobstructed.
5. Loosen the jam nut and turn the jet adjustment knob clockwise until the air stream is reduced to a minimum. See **Figure 13**.
6. Turn the jet adjustment knob counter-clockwise, and use a piece of cardboard to alternately block and un-block the air stream until the upper drum just begins to react and move left and right.
7. Turn the jet adjustment knob counter-clockwise an additional $\frac{1}{2}$ turn and tighten the jam nut.
8. Complete Belt Tracking on **page 14**.

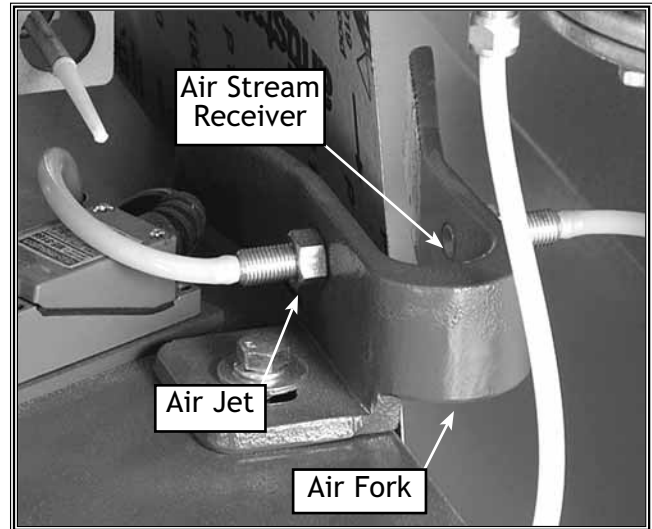


Figure 12. Air Jet and air fork assembly.

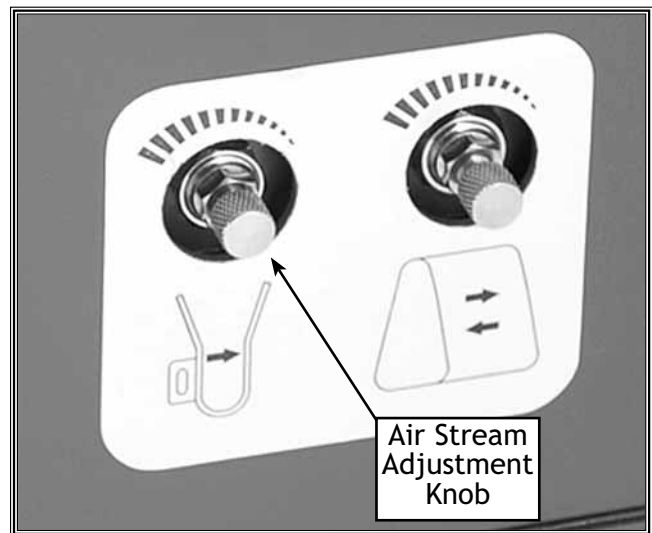


Figure 13. Air Stream adjustment knob.

Belt Tracking

The belt tracking knob and lever (Figure 14) and responsible for keeping the belt in “same-speed” left-to-right motion during sanding. Your goal is to position the belt tracking lever so the belt left-and-right movement takes approximately the same amount of time.

CAUTION
 KEEP your hands clear of the sanding belt when making these adjustments!



WARNING
 KEEP loose clothing and long hair secured and away from moving parts.

To set the belt tracking, do these steps:

1. Complete the **Jet Air Flow** adjustment on page 13.
2. Put on safety glasses, tie back all loose clothing, remove jewelry, pull back sleeves, and tie back long hair so it will not get caught by the sanding belt.
3. Turn the sander **ON**.
4. Observe the left-to-right motion of the belt as it moves along the drum while looking from the front of the sander.
 - If the belt tracks faster to the right, but is slow to track back to the left, loosen the belt tracking knob and push the lever slightly to the left and retighten the knob. See **Figure 14**.
 - If the belt tracks faster to the left, but is slow to track back to the right, loosen the belt tracking knob and push the lever slightly to the right and retighten the knob. See **Figure 14**.
5. Make sure the belt tracks left and right at approximately the same speed.
6. Keep the sander running, and now adjust complete the **Belt Oscillation Speed** adjustment as outlined on page 15.

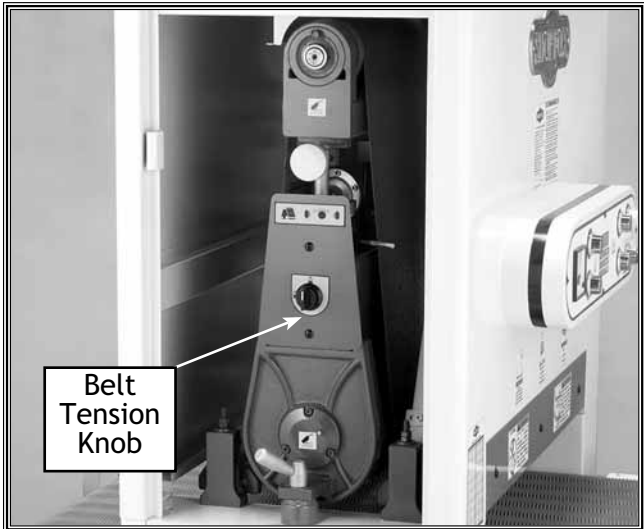


Figure 14. Belt tension knob.

ADJUSTMENTS

Belt Oscillation Speed

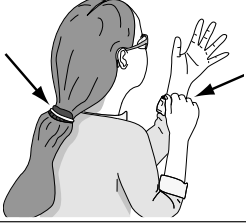
For normal operations, the oscillation speed should be set so that it takes approximately 2 seconds to move each direction of travel, or a total of 4 seconds to move both directions.

You can experiment with different speeds to see how the results may affect your finished product. Often, you may find that certain speeds yield better results for different varieties of stock and the feed rates chosen. To set the belt oscillation speed, do these steps:

⚠ CAUTION

KEEP your hands clear of the sanding belt when making these adjustments!

1. Complete the **Sanding Belt Tracking** adjustments on **page 14**.
2. Put on safety glasses, tie back all loose clothing, remove jewelry, pull back sleeves, and tie back long hair so it will not get caught by the sanding belt.
3. If you have not already done so, turn the sander **ON**.
4. Looking from the front of the sander, observe the left-to-right motion of the belt as it moves along the drum.
 - If you want the belt oscillation to oscillate from left to right in shorter and faster sweeps, loosen the jam nut and then rotate the oscillation speed control dial counter-clockwise. See **Figures 15** and **16**.
 - If you want the belt oscillation to oscillate from left to right in longer and slower sweeps, loosen the jam nut and then rotate the oscillation speed control dial clockwise. See **Figures 15** and **16**.
5. Tighten the jam nut.
6. Observe belt tracking and oscillation, and repeat the **Sanding Belt Tracking** adjustments on **page 14** if needed.



⚠ WARNING
KEEP loose clothing and long hair secured and away from moving parts.

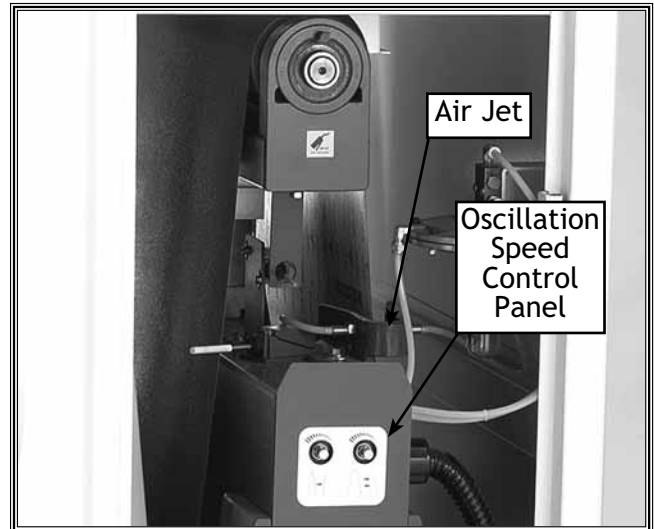


Figure 15. Oscillation system.

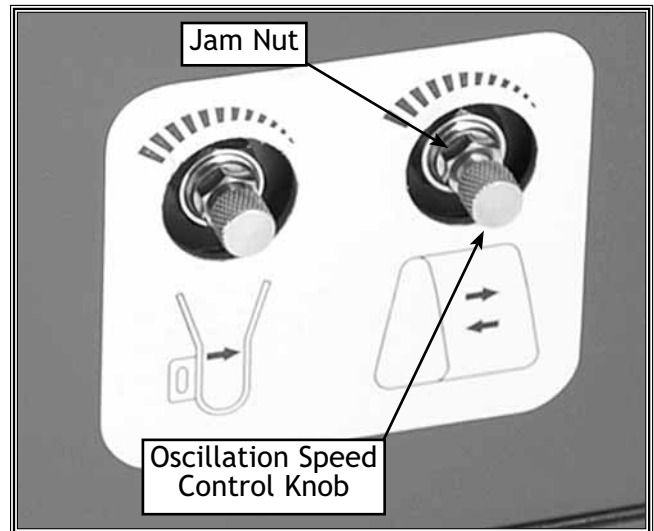


Figure 16. Oscillation speed and oscillation return control valves.

Belt Tracking Safety Switch

Belt tracking safety switches are placed on both sides of the belt to act as emergency machine stops if the belt travels too far to one side during oscillation. See **Figure 17**.

To adjust the belt tracking safety switches, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so no power can go to your sander!
2. Make sure the belt tracking and oscillation is adjusted.
3. Release the belt tension, center the sanding belt on the top roller, then re-tension the belt.
4. Measure the distance from the edge of the sanding belt to the ceramic rod protruding from the switch.
5. Loosen the adjustment bolt shown in **Figure 17** and move the switch so the belt and the ceramic rod have approximately $\frac{1}{2}$ " clearance from each other.
6. Tighten the bolt and repeat the adjustment with the other side if necessary.
7. Start the sander and make sure it is working properly.



Figure 17. Tracking safety switch adj. bolt.

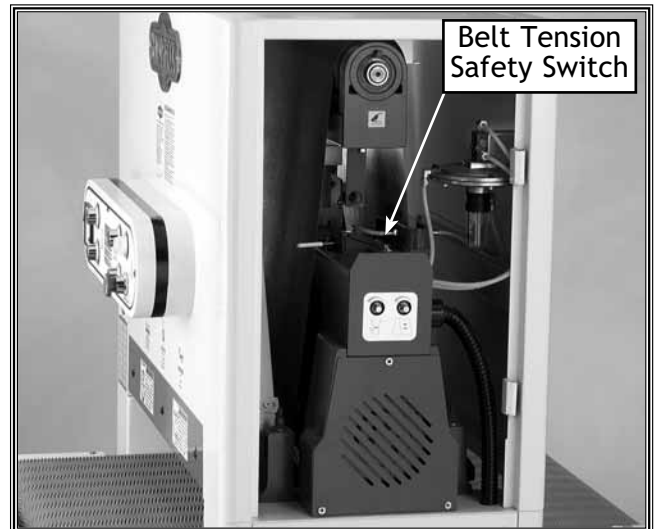


Figure 18. Belt tension safety switch location.

Belt Tension Safety Switch

The belt tension safety switch shuts the sanding motor **OFF** if the belt breaks or has no tension when the lock flange pushes the belt tension safety switch lever. See **Figure 19**.

To adjust the belt tension safety switch, do these steps:

1. **TURN-OFF** and **LOCK** your master power switch.
2. Apply normal system air pressure of 57 PSI, and tension the belt.
3. Loosen the mounting screw and position the switch so the lever is in the center of the lock flange hole.
4. Re-tighten the screw and test the switch operation.

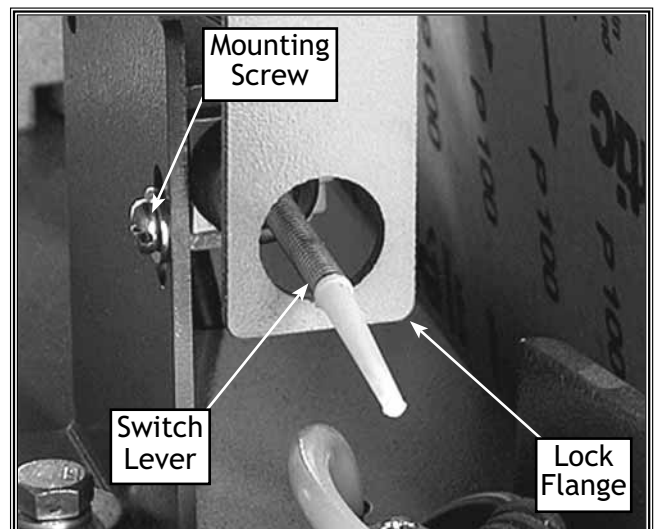


Figure 19. Belt Tension safety switch.

Pressure Rollers

The pressure rollers are factory set so they are parallel with each other, parallel with the sanding drum, and parallel with the surface of the conveyor table. Additionally, the front pressure rollers must be set 0.040" below the sanding drum, and the rear rollers at 0.020" below the sanding drum. When these settings are achieved, the pressure-roller spring tension will be correct.

To adjust the pressure rollers, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so no power can go to your sander!
2. Make two gauge boards that are 24" long and uniform in thickness.
3. Connect the air pressure and set it to 57 PSI.
4. Install the sanding belt and turn the belt tensioning knob to the 12:00 position to tension the belt. See **Figure 20**.
5. Position each board on each side of the conveyor belt and directly below the front and back pressure rollers. See **Figure 21**.
6. Loosen the adjustment jam nuts and raise the pressure rollers above the sanding belt roller with the adjustment bolts shown in **Figure 20**.
7. Raise the table up until the boards barely touch the sanding belt.
8. Turn the table-height handwheel counter-clockwise one complete turn, to lower the table approximately 0.020".
9. Lower the rear pressure rollers so that both ends barely touch the gauge boards. The rear pressure rollers are now set at 0.020" below the sanding drum.
10. Turn the table-height handwheel counter-clockwise again one complete turn, which lowers the table an additional 0.020".
11. Lower the front pressure rollers so that both ends just touch the boards. The front pressure rollers are now set at 0.040" below the sanding drum.
12. Tighten the adjustment jam nuts.

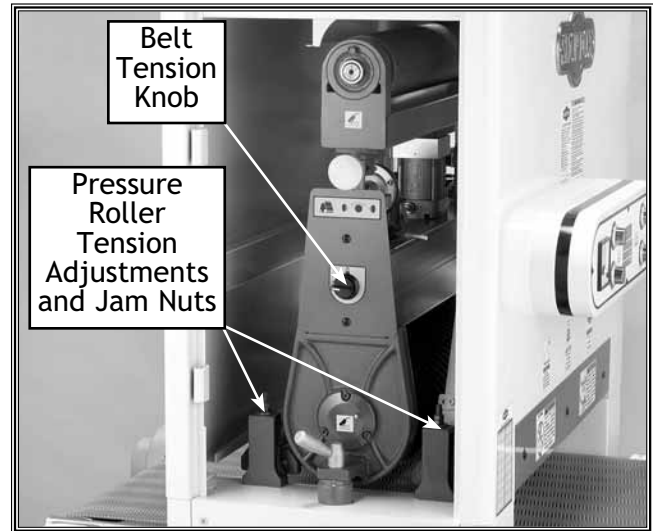


Figure 20. Belt and pressure roller adjustments.



Figure 21. Gauge boards placed under pressure rollers as a gauge.

V-Belt Tension

The sanding motor (Figure 22) and table lift motor (Figure 23), V-belts must be tensioned properly for best performance. No adjustment is necessary for the conveyor motor belt, as it uses a variable width pulley. See Figure 24. Only replace the belt if it becomes frayed, cracked, or glazed. If one belt is bad, always replace both belts as a matched set. Both table lift and sanding motor belts are adjusted the same way.

⚠ CAUTION

KEEP the sanding drum drive belts correctly adjusted. If the belts are loose, and the emergency stop is engaged, the sanding drum pulley will slip and not immediately stop in the event of an emergency!

To tension the V-belts, do these steps:

1. TURN-OFF and LOCK the master power switch so power cannot start your sander!
2. Remove the lower cover(s) on the sander (right cover for sanding belt motor, left cover for the conveyor height motor).
3. Turn both nuts clockwise to tighten the V-belts, or turn both nuts counterclockwise to loosen the V-belts.
4. The V-belt is properly tightened when it will move no more than $\frac{3}{4}$ " in the center with moderate pressure from your thumb.

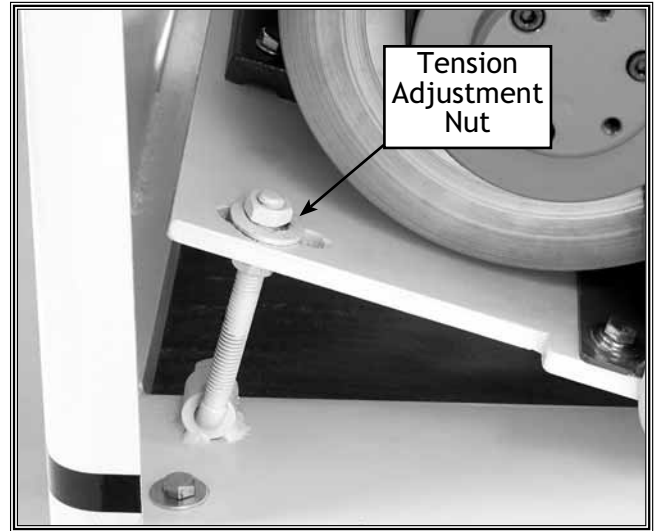


Figure 22. Sanding motor v-belt adjustment.

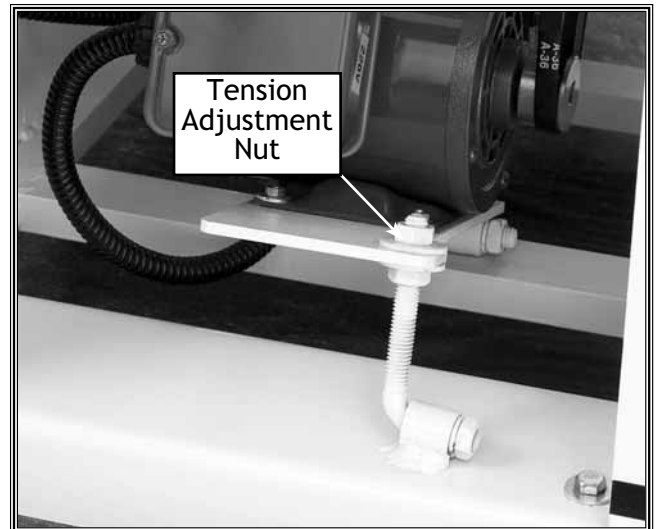


Figure 23. Table lift motor v-belt adjustment.

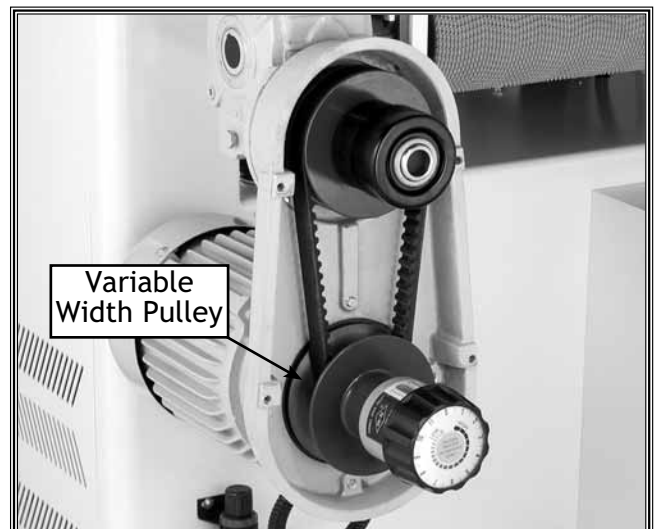


Figure 24. Non-adjustable conveyor motor belt.

Feed Belt Tension and Tracking

The feed belt tension and tracking has been set at the factory; however, if at any point you notice that your feed belt is slipping or tracking off center on the rollers and loading up on the positioning wheels under the conveyor table, you must adjust the feed belt tension and tracking.

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

1. Remove the screws and the emergency stop plate. See Figure 24.
2. Turn the feed belt tension and tracking bolts equal amounts from side-to-side and set the belt tension so it is snug and will not slip when sanding at a maximum load.

	<p>! WARNING KEEP loose clothing and long hair secured and away from moving parts.</p>
--	---

3. Start the conveyor.
4. Turn the feed belt tension and tracking bolt to position the feed belt roller evenly on each side. See Figure 25.
 - If the conveyor tracks to the right, turn the right-side tension and tracking bolt clockwise approximately in $\frac{1}{4}$ turn increments.
 - If the conveyor tracks to the left, turn the left-side tension and tracking bolt clockwise in approximately $\frac{1}{4}$ turn increments.
5. Run the feed belt for at least three minutes to determine if the tracking is correct and the tension stays the same.
6. Repeat steps as required to achieve the correct tension and tracking.
7. Reinstall the emergency stop plate and belt cover, and test the emergency stop operation.

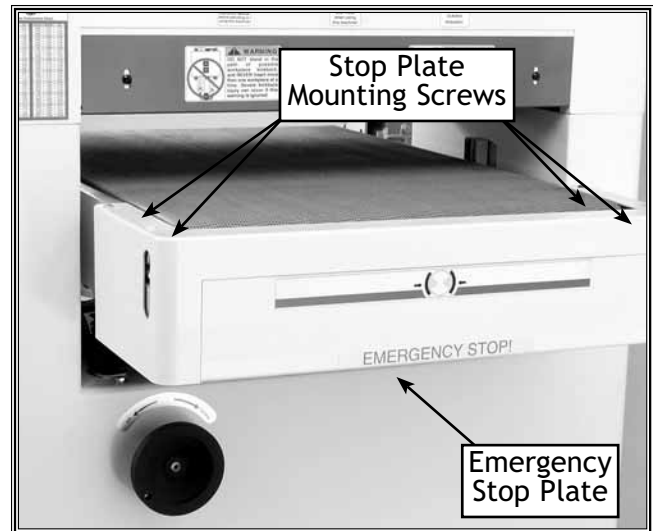


Figure 24. Emergency Stop Plate.

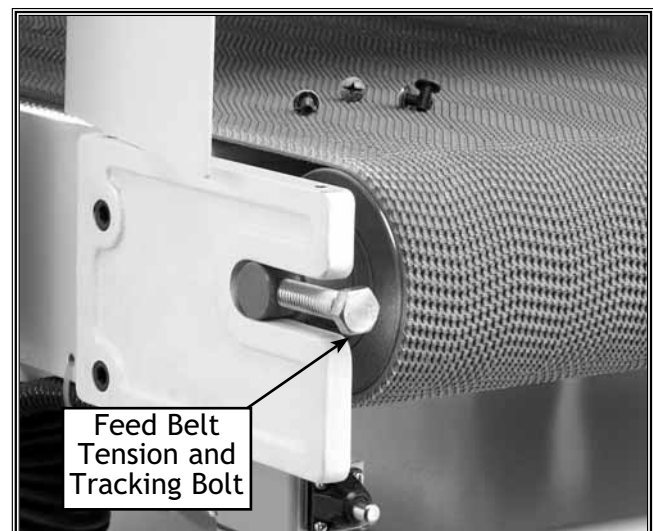


Figure 25. Feed belt tension bolt (shown with the emergency brake and guard removed).

Table Stop Switches

The table stop switches prevent the table lift motor from running the table into the sanding drum and bottoming out the table lift mechanism at the end of the jack screws. Periodically adjust the table stop switches.

To adjust table stop switches, do these steps:

1. Apply air to the sander and tension the sanding belt.
2. Push the down arrow key and lower the table until you achieve 6 inches between the sanding drum and the conveyor table surface. See **Figure 26**.
3. Loosen the mounting bolt for the table-down stop switch and move the switch so the switch plunger depresses against the stop block and you hear the switch click. See **Figure 27**.
4. Re-tighten the mounting bolt.
5. Push the up arrow key and raise the table until you achieve an $\frac{1}{8}$ inch between the sanding drum and the conveyor table surface.
6. Loosen the mounting bolt for the table-up stop switch and move the switch so the switch plunger depresses against the stop block and you hear the switch click. See **Figure 27**.
7. Re-tighten the mounting bolt.
8. Use the up and down buttons and test the table operation and make sure the switches shut the table lift motor **OFF** when the table is at the minimum and maximum distance from the sanding drum.

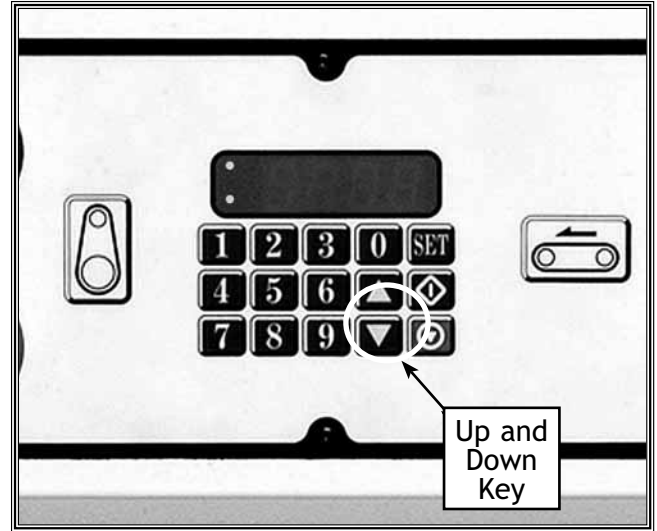


Figure 26. Key pad table-lift controls.

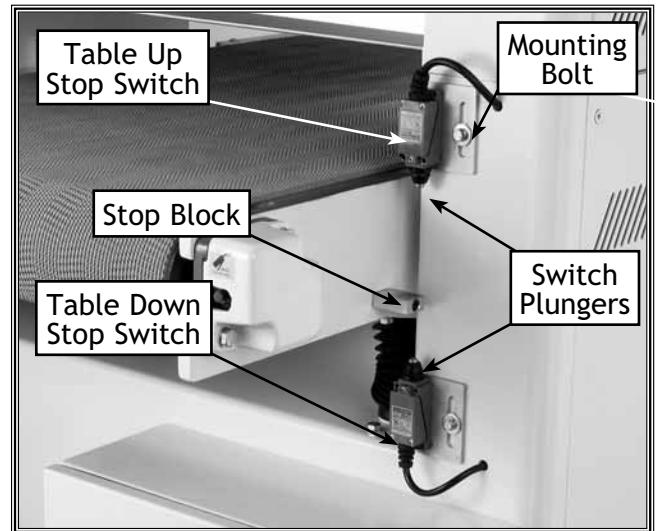


Figure 27. Table stop switch adjustment locations.

ADJUSTMENTS

OPERATIONS

Below is a summary of your sander control panel and the components that it controls. Use the list with **Figure 16** to become familiar with your sander.

- **Sanding Load Amp Meter:**
Indicates the current amp load on the sanding motor when a sanding operation is in progress.
- **Sanding Belt Start and Stop Buttons:**
Turns the sanding motor **ON** and **OFF** if the sander has air pressure and the belt is tensioned.
- **Run LED:** Indicates the conveyor lift motor is operating.
- **Input LED:** Indicates the sander is waiting for new numerical dimension values.
- **Digital Readout:** Displays current sander settings.
- **Table Up and Down Keys:**
Manually cycles the table lift motor to raise and lower the table.
- **SET Key:** Press and hold the SET button for 3 seconds to calibrate display at the current board thickness; or press and hold key for 10 seconds to toggle the display between metric and standard measurement.
- **Feed Belt Start and Stop Buttons:** Cycles the conveyor motor **ON** and **OFF** for feeding wood into the sander.
- **Power Lamp:** Indicates when machine has power to the control panel.
- **Emergency Stop Button:** Stops all electrical power to motors in event of emergency, and stops sanding drums with an air-disc brake.
- **Table Start and Stop Keys:** Cycles the table lift motor in and out of the automatic raise and lower function.
- **Key Pad:** Allows you to input your numerical sanding specifications for automated sanding control.

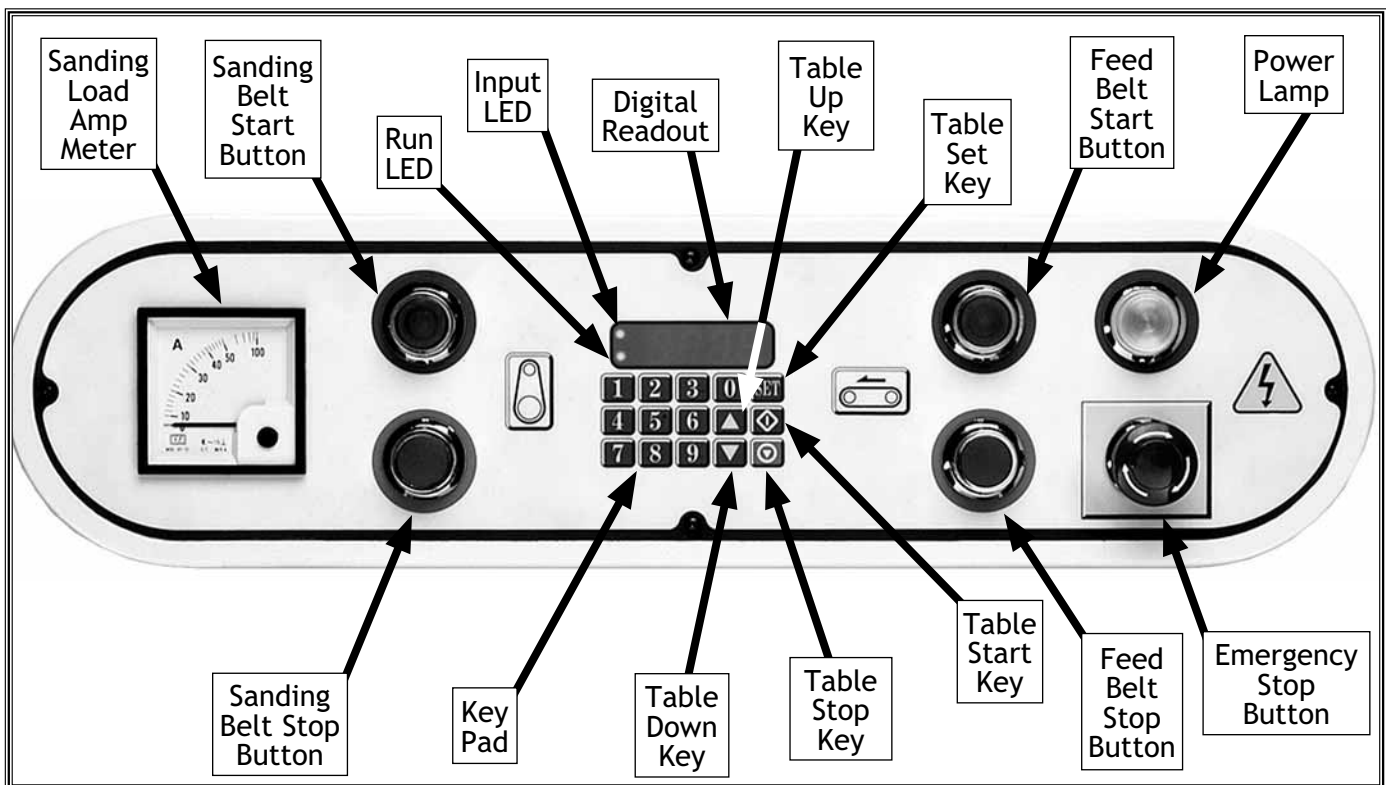


Figure 28. Control panel interface.

General Operation and Test Run

The Model W1710 will perform many types of operations that are beyond the scope of this manual. Many of these operations can be dangerous or deadly if performed incorrectly.

The instructions in this section are written with the understanding that the operator has the necessary knowledge and skills to operate this machine. **If at any time you are experiencing difficulties performing any operation, stop using the machine!**

If you are an inexperienced operator, we strongly recommend that you read books, trade articles, or seek training from an experienced *Machine Type* operator before performing any unfamiliar operations. **Above all, your safety should come first!**

To test run this machine, do these steps:

1. Tie back loose clothing and hair, and wear a respirator and safety glasses.
2. Make sure all access doors and handles are secured.
3. Start the dust collection system.
4. Apply power to the sander and connect the supply air to the sander. Make sure the air pressure is set at 57 PSI.
5. Turn the sander and feed belt *ON*.
6. Listen for any unusual noises. *A slow, rhythmic air sound is normal.* The machine should run smoothly with little or no vibrations.
 - If there are any unusual noises or vibrations, shut the machine off immediately. **TURN-OFF and LOCK the master power switch so no power can go to your sander, and disconnect the air line.**
 - Investigate the source of the noise or vibration. **DO NOT** make any adjustments to the machine while it is plugged in. The machine should not be run any further until the problems are corrected.



Setting Feed Speed

The feed belt motor offers variable speeds from 14 ³/₄ to 49 FPM. **Figure 29** points out the variable conveyor feed speed control knob.

To change the feed belt speed do these steps:

1. Start the conveyor.
2. Grasp the variable conveyor feed speed control knob and rotate the control knob to the required conveyor speed as indicated by the speed indicator. Only adjust the speed when the conveyor is operating.

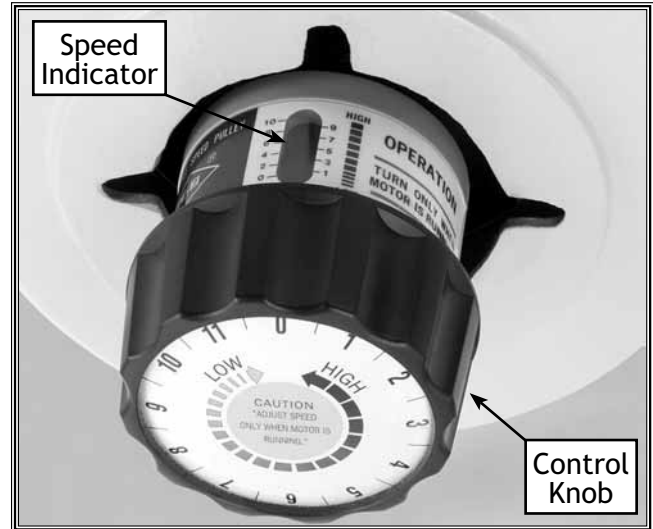


Figure 29. Variable feed speed control knob.

Using the Amp Draw Meter

The amperage draw meter (**Figure 30**) is used to keep the machine from being overloaded during sanding operations.

As a general rule, always start with a shallow sanding depth and carefully increase the sanding depth. Keep the amp load in the green range during operation. Generally, the normal depth of cut is no more than ¹/₆₄" or 0.016" for a 24" wide board using coarse sandpaper. DO NOT work your machine in the red zone as shown on the Amperage Load Chart. If operated in the red zone, the motor will lose RPM, the start capacitor will energize, and capacitor or motor damage will occur.

Amp load will be directly affected by many factors such as feed rate, depth of cut, wood type, sandpaper grit, and workpiece width.

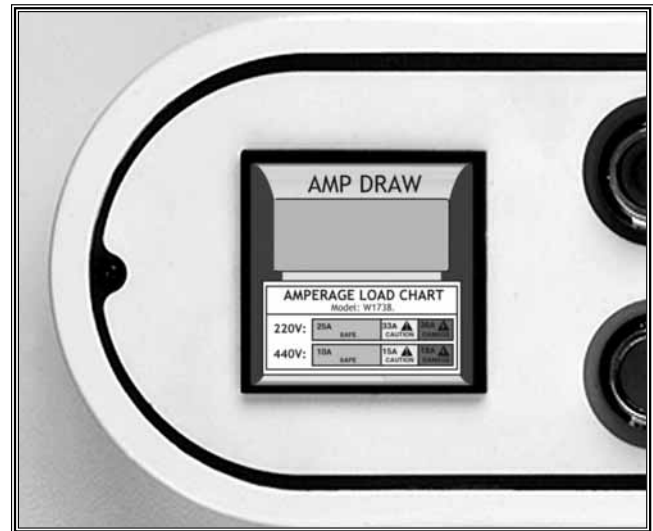


Figure 30. Amp draw meter.

NOTICE

DO NOT VOID MACHINE WARRANTY! Keep the amp draw within the GREEN zone shown on the AMP LOAD CHART. If you operate the sander in the RED zone, capacitor or motor failure will occur and will not be covered under warranty.

Emergency Stop

When pushed, the emergency stop plate shown in **Figure 31** stops the electricity to the motors and stops the sander quickly by using a disc brake on the drive motor.

To apply the emergency stop, do these steps:

1. Push the bottom of the emergency stop plate as far as it will go.
2. Hold the emergency stop plate until the sander has come to a complete stop.

⚠ CAUTION

KEEP the sanding drum drive belts correctly adjusted. If the belts are loose, and the emergency stop is engaged, the sanding drum pulley will slip and not immediately stop in the event of an emergency!



Figure 31. Emergency stop plate.

Keypad and Display

The conveyor table lift motor is controlled by the key pad and indicated on the digital display shown in **Figure 27**. You can push the **UP** or **DOWN** arrow keys to lift or lower the table, or you can use the automated function of auto height adjustment for your next sanding pass. All functions are controlled through the key pad and are presented on the digital display (**Figure 27**).

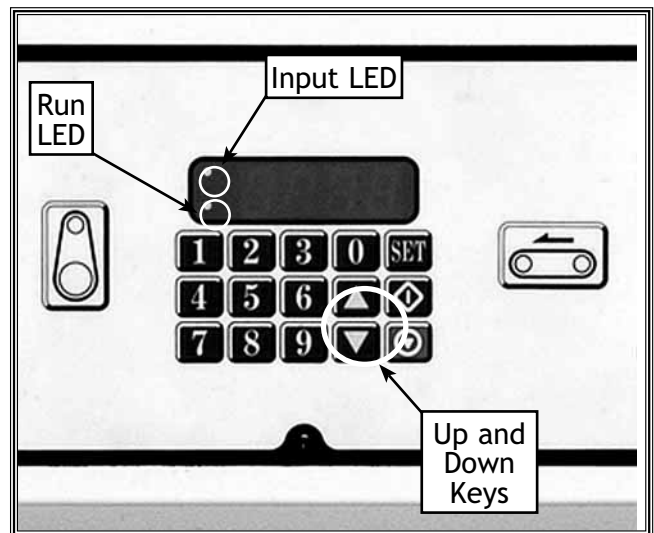


Figure 32. Digital display and key pad.

Calibrating the Table

To re-calibrate your table, do these steps:

1. Sand a workpiece multiple times at the same thickness until no sanding occurs when the workpiece goes through the sander.
2. Using a caliper capable of measuring 0.001", measure and record the workpiece thickness.
3. Type the recorded thickness of the workpiece on the key pad, and the digital display will show the thickness. **Example:** For 1½" thickness, type 1.500; or for 1⅜" thickness, type 1.375.
4. Now press and hold the SET **SET** key for 3 seconds:
The table is now calibrated. **Note:** Holding the set key for 10 seconds toggles the digital readout between metric and standard measurements.



Figure 33. Table height handwheel.

Basic Sanding


To achieve the best sanding results experiment with conveyor feed rate, sanding depth, various grits of sandpaper, and oscillation speed.

Note: Removing too much material can burn the workpiece, tear the paper, or give poor sanding results.

To sand a workpiece, do these steps:

1. Measure the workpiece and record the thickest spot.
2. With the table already calibrated, turn the sander **ON**, and set the feed rate.
3. Type in the thickness of your workpiece using the numeric key pad (Example: for a 2" thick workpiece type 2.000"), and press the table start key:

Note: *The upper left corner input LED will illuminate (See Figure 32), and the display numbers will flash when entering measurements.*

4. Measure the sanding depth needed. Example: let's say you need $1/64$ ".
5. Convert $1/64$ " fraction to a 0.016" decimal measurement using the conversion table on the sander.
6. Calculate the resulting workpiece thickness ($2.000" - 0.016" = 1.984$ "), and type that thickness (1.984") on the key pad.
7. Press the table start key:  The table will raise to the new setting.

Note: *The computer rounds the sanding thickness measurements in increments of 0.005".*

Note: *The lower left corner Run LED will illuminate and the display numbers will glow steadily when measurements have been accepted and the table is auto-adjusting. When the correct sanding depth is achieved, the lower left corner Run LED will turn off and the final resulting workpiece thickness is displayed.*

8. Start the conveyor, stand to the side as shown in **Figure 34**, and feed the workpiece into the sander.

9. Observe the amp draw meter, and press the table down arrow key on the key pad to reduce the sanding depth if the amp load meter indicates motor overload.
10. Remove the workpiece from the outfeed side, which is now sanded down $1/64$ ". Re-sand the workpiece a couple of times more at this depth to ensure a consistent sanding depth.
11. Add a new sanding depth the same way as in **Steps 7 and 8**, and sand again.

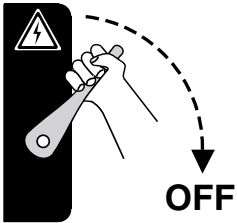


Figure 34. Operator feeding workpiece in correct body position and out of the way of potential kickback.

Quick Tip

For best results when finish sanding, feed each piece through the sander two or three times without adjusting the depth of cut. Turn the workpiece 180° and feed it through two or three more times at this same depth. As always, use your best judgement. If you no longer hear the sanding belt making contact with the workpiece on successive cuts, then no further passes are needed at that depth.

MAINTENANCE



! WARNING
TURN-OFF and LOCK your master power switch when performing maintenance, so no power is available to the sander! If you ignore this warning serious electrical shock may occur causing injury or death!

General

Regular maintenance on your Model W1710 will ensure its optimum performance. Make a habit of inspecting your machine each time you use it. And at the end of the day remove the sanding belt and clean the back side of the sanding belt and the drums. Remove wood and abrasive dusts from the inside of the machine.

Check for the following conditions and repair or replace when necessary:

- Loose mounting bolts.
- Worn switches.
- Worn or damaged cords and plugs.
- Damaged belts.
- Any other condition that could hamper the safe operation of this machine.
- Check the entire air system for leaks.

Lubrication

Wipe off all sawdust and abrasives on grease fittings and plugs before lubrication. When lubricating machine parts, your goal is to achieve adequate lubrication to prevent rust, and a thin layer of lubricant to prevent metal-to-metal friction. Too much lubrication will attract dirt and sawdust, and as a result, these parts could lose freedom of movement.

- After the first 300 hours of use, replace the gear reducer lubricant with straight 140W gear lube up to the center of the sight glass. **DO NOT** use the common 85-140 gear lube as it is too light and seals may begin to leak. See **Figure 35**.
- After 2,500 hours of use thereafter, replace the gear lube and always remove the vented plug and make sure it is clean and free to breathe.

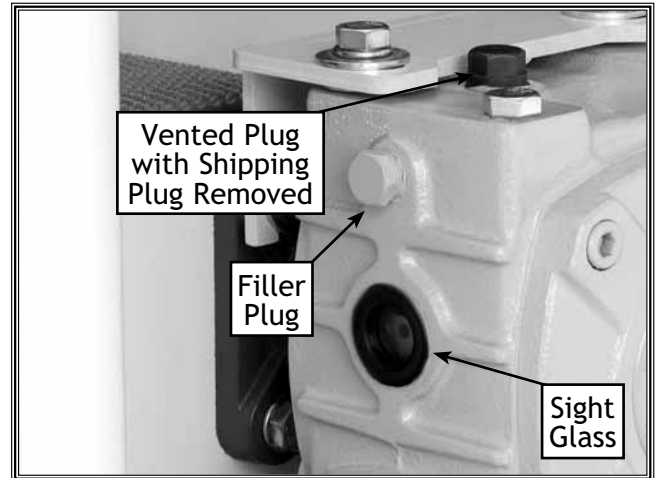


Figure 35. Gear reducer breather and filler plug.

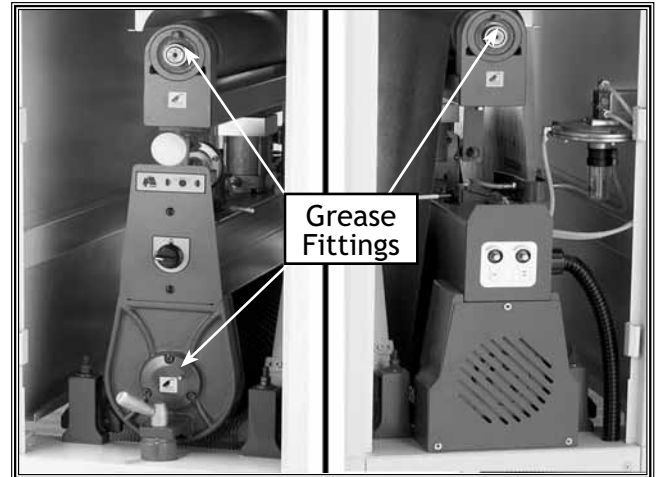


Figure 36. Left/right grease fitting locations.



Figure 37. Two rear conveyor fitting locations.

- After 150 hours of use lubricate the bearings with one squirt of automotive-grade grease at the designated points, see **Figures 36 and 37**.
- All other bearings are shielded and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them.
- After every 20-40 hours of use, lubricate the elevation screws, chains, sprockets, and the table guides under the table with a light coating of white lithium grease. See **Figure 38**.

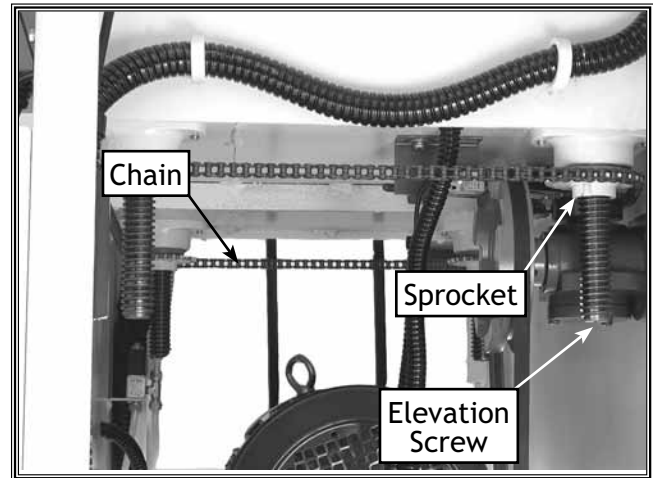


Figure 38. Lubrication points.

Sanding Belts

To increase working life of your sanding belts, we recommend that you routinely clean them with a Pro-Stik® Cleaning Pad shown in **Figure 39**.

To clean the belts, simply set your table to the thickness of the cleaning pad and run the pad through the sander two or three times. *DO NOT take too deep of a cut. The belt should barely touch the cleaning pad!*

Clean sanding belts whenever they decrease in performance due to heavy loading.

When selecting sandpaper, keep in mind that the Model W1710 accepts only 25"W x 60"L belts. Consider the type of work, the species of wood and the stage of finishing. Use these numbers as a general guide to sandpaper type:

- 60 Grit.....Coarse
- 80-100 GritMedium
- 120-150 Grit.....Fine

For best results, do not increase grit numbers more than 50 on any successive pass.

Servicing Separators

The moisture bowl and the dust bowl (see **Figure 40**) need to be emptied and cleaned whenever they get more than half full.



Figure 39. Pro Stik® cleaning pad.

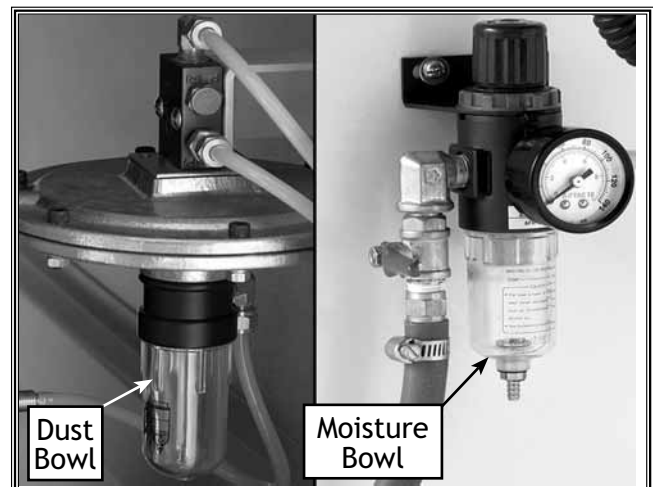


Figure 40. Empty the dust and moisture bowls often.

Servicing Brake

Any grease or oil on the emergency brake rotor creates the potential for reduced emergency braking ability. Check the brake rotor (shown in **Figure 41**) regularly to make sure it is clean. If it needs cleaning, only use automotive brake parts cleaner and a dry rag. **DO NOT** use water!

The brake pads shown in **Figure 42** will eventually need to be replaced.

To check the condition of the brake pads, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so no power can go to your sander and shut off the air pressure!
2. Remove the lower right cover.
3. Measure the thickness of each pad. If a pad is below $\frac{1}{8}$ ", then replace both.

To replace the brake pads, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so no power can go to your sander, and shut off the air pressure!
2. Use a 14mm wrench and remove the two caliper anchor pin retaining nuts and washer. See **Figure 41**.
3. Use ViceGrip® or similar pliers to clamp on the anchor pin end and pull the pin from the caliper mount and remove the springs. See **Figure 41**.
4. If the rotor is damaged, remove the rotor and have it surfaced at a machine shop. Clean the rotor with automotive brake parts cleaner and handle it with a dry rag when installing.
5. To finish the job, install the new brake pads, reassemble and mount the caliper, and reconnect the air line if removed.
6. Test emergency brake operation!

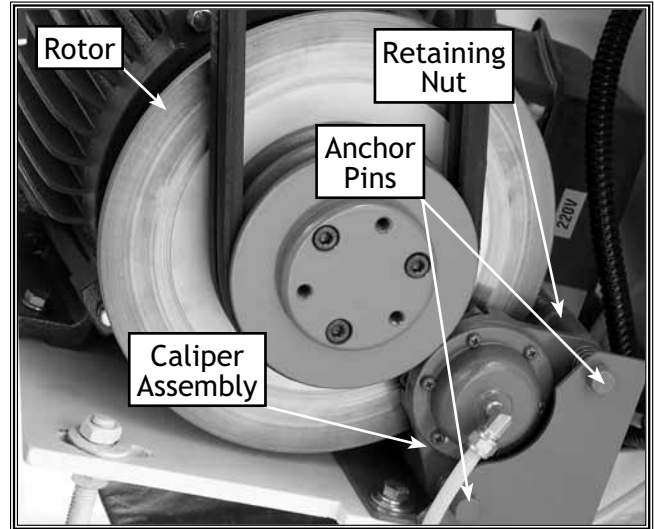


Figure 41. Brake assembly.

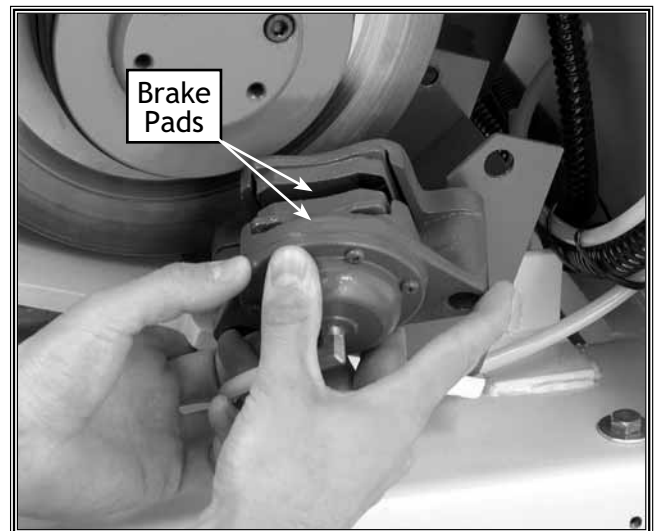


Figure 42. Brake caliper removed for access to brake pads.

Changing V-Belts

Check the V-belts periodically to check for signs of glazing, cracking or fraying. If any of these conditions are present, change both V-belts.

To change the V-belts, do these steps:

1. **TURN-OFF** and **LOCK** the master power switch so no power can go to your sander and shut off the air pressure!
2. Open both right-side upper and lower access covers.
3. Remove the three screws and the safety cover for access to the upper pulley. See **Figures 43** and **44**.
4. Use a 14mm wrench and remove the upper caliper anchor pin retaining nut and washer. See **Figure 45**.
5. Use ViceGrip® or similar pliers to clamp on the anchor pin end and pull the pin from the caliper mount and remove the springs. See **Figure 45**.
6. Pivot the caliper down and away from the rotor for belt clearance.
7. Remove the upper belt adjustment nut and washer. See **Figure 45**.
8. Pry the motor base plate upward to de-tension the belts and roll the belts off of the motor pulley.
9. Install the new V-belts.
10. Replace the upper belt adjustment nut and washer, and tension the belt as necessary.
11. The V-belt is properly tensioned when it will move no more than $\frac{3}{4}$ " in the center with moderate pressure from your thumb.
12. Reassemble in reverse order and test the emergency brake operation.

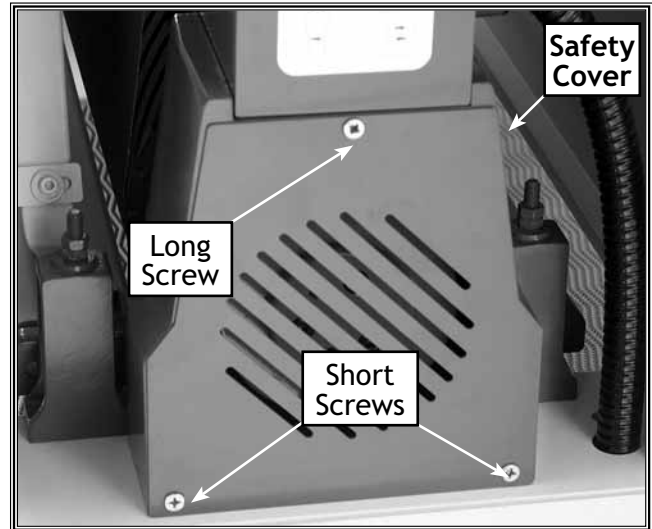


Figure 43. Safety cover and mounting screws.

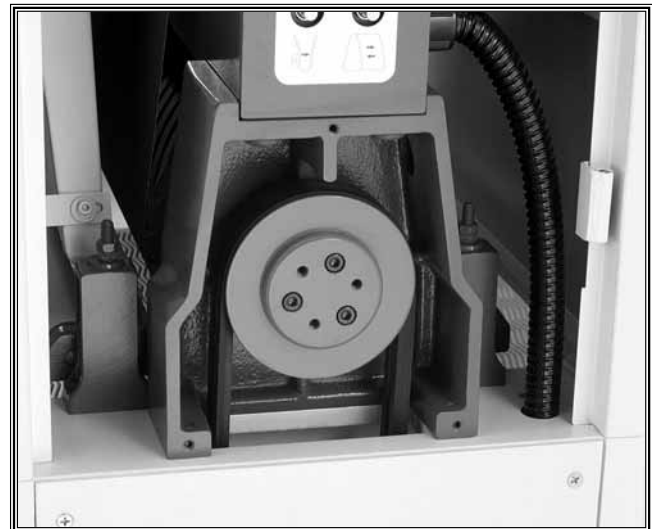


Figure 44. Upper pulley exposed.

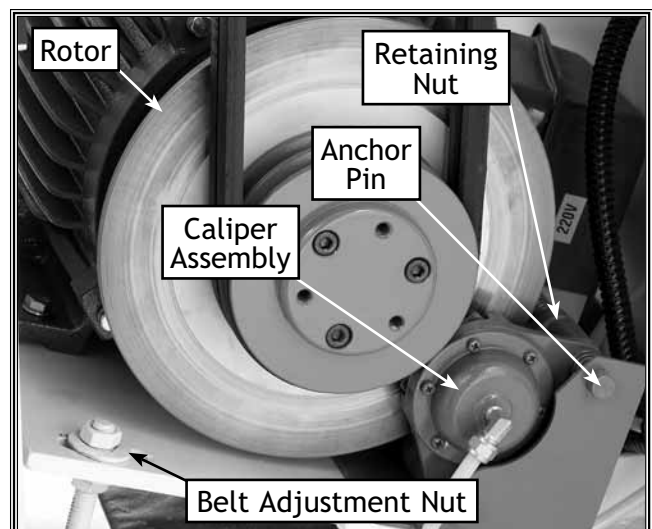
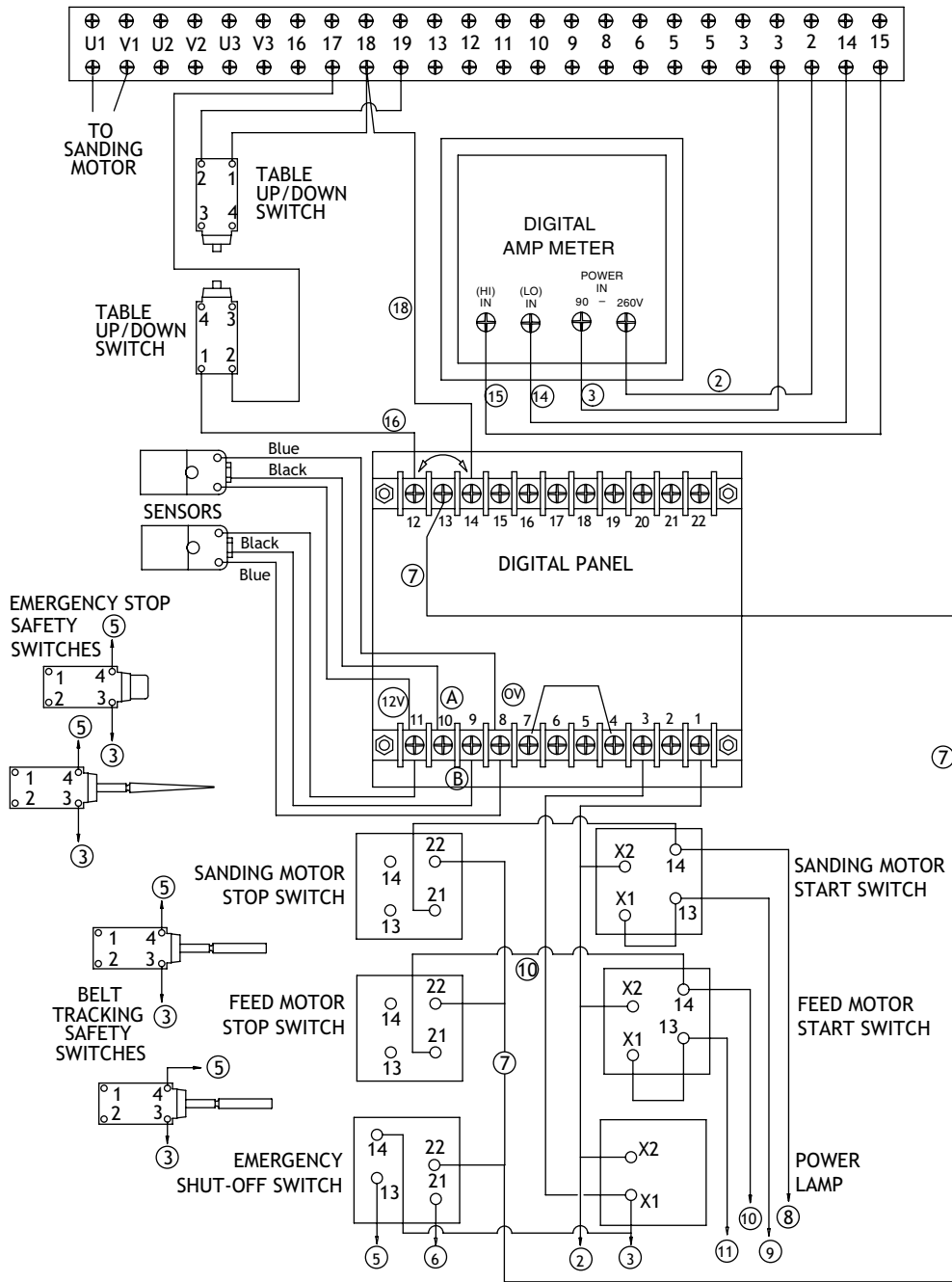


Figure 45. Belt removal access.

Troubleshooting

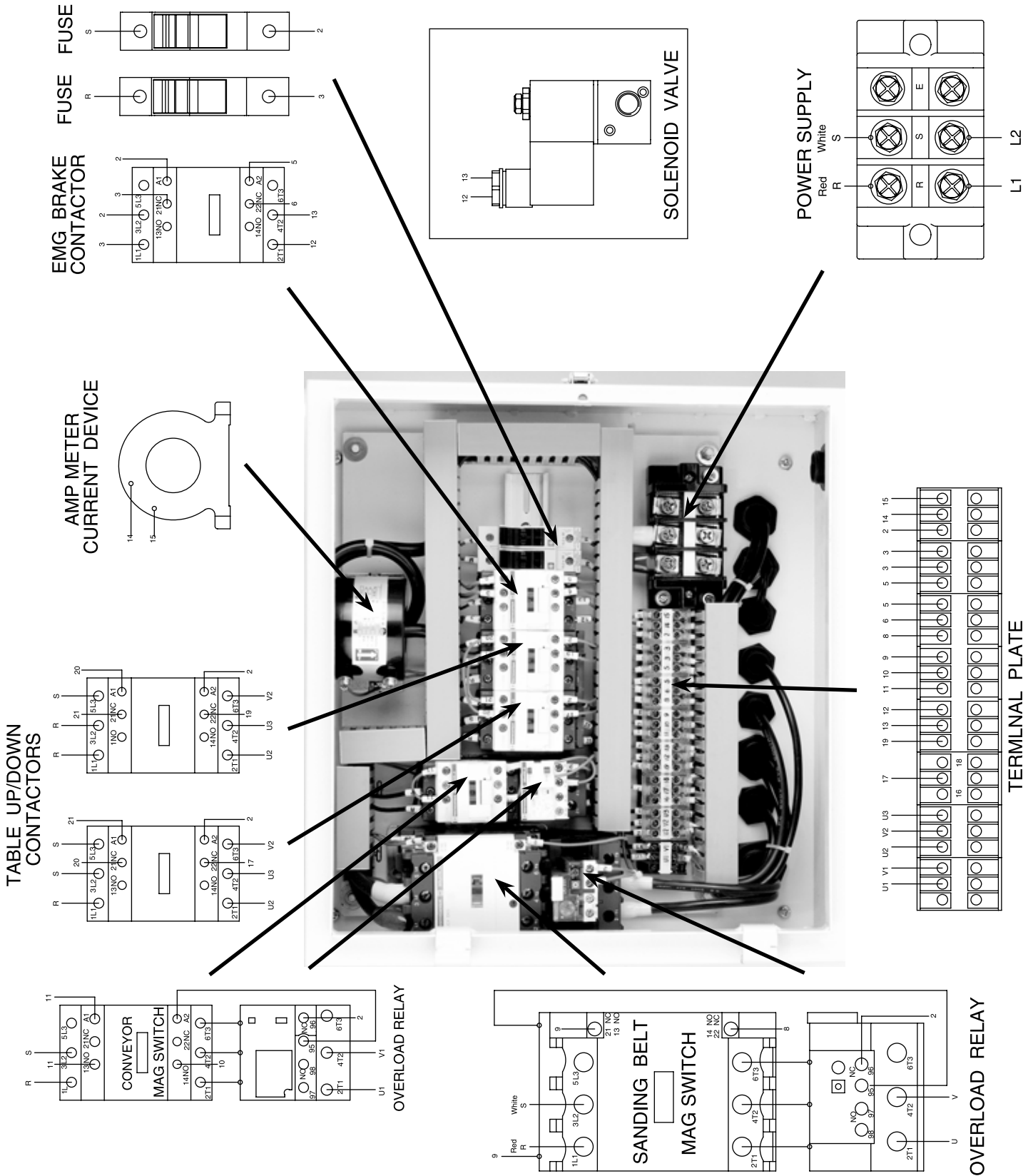
SYMPTOM	POSSIBLE CAUSE	HOW TO REMEDY
Motor will not start; fuses or circuit breakers blow.	<ol style="list-style-type: none"> 1. Low voltage. 2. Open circuit in motor or loose or shorted connections. 3. Short circuit in motor or loose connections. 4. Incorrect fuses or circuit breakers. 5. Faulty start capacitor. 6. Faulty motor. 	<ol style="list-style-type: none"> 1. Check power line for proper voltage. 2. Inspect all lead connections on motor for loose, shorted, or open connections and replace or repair. 3. Inspect all connections on motor for loose or shorted terminals or worn insulation. 4. Install correct fuses or circuit breakers. 5. Replace the start capacitor and do not to overload motor. 6. Replace motor.
Motor overheats.	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Air circulation through the motor restricted. 	<ol style="list-style-type: none"> 1. Reduce load on motor. 2. Clean out motor to provide normal air circulation.
Motor stalls (resulting in blown fuses or tripped circuit).	<ol style="list-style-type: none"> 1. Short circuit in motor or loose connections. 2. Low voltage. 3. Incorrect fuses or circuit breakers in power line. 4. Motor overloaded. 5. Faulty run capacitor. 	<ol style="list-style-type: none"> 1. Inspect connections on motor for loose or shorted terminals or worn insulation. 2. Correct the low voltage conditions. 3. Install correct fuses or circuit breakers. 4. Reduce load on motor. 5. Replace the run capacitor.
Machine slows when operating.	<ol style="list-style-type: none"> 1. Feed rate too high. 2. Depth of cut too great. 	<ol style="list-style-type: none"> 1. Feed workpiece slower. 2. Reduce depth of cut.
Loud, repetitious noise coming from machine	<ol style="list-style-type: none"> 1. Pulley set screws or keys are missing or loose. 2. Motor fan is hitting the cover. 3. V-belt is defective. 	<ol style="list-style-type: none"> 1. Inspect keys and set screws. Replace or tighten if necessary. 2. Tighten fan. 3. Replace V-belt. See Maintenance section.
Machine is loud, overheats or bogs down in the cut.	<ol style="list-style-type: none"> 1. Excessive depth of cut. 2. Dull sanding belt. 	<ol style="list-style-type: none"> 1. Decrease depth of cut. 2. Replace sanding belt.
Edges of wood are rounded.	<ol style="list-style-type: none"> 1. Excessive depth of cut. 	<ol style="list-style-type: none"> 1. Reduce depth of cut.
Uneven thickness from left to right of board.	<ol style="list-style-type: none"> 1. Feed table not parallel to sanding roller. 2. Feed belt is worn. 	<ol style="list-style-type: none"> 1. Adjust the table. 2. Replace feed belt.
Workpiece slips on feed belt.	<ol style="list-style-type: none"> 1. Pressure rollers set too high. 2. Dirty feed belt. 3. Feed belt is worn. 	<ol style="list-style-type: none"> 1. Lower pressure rollers. 2. Clean feed belt. 3. Replace feed belt.
Straight strip of notches on workpiece.	<ol style="list-style-type: none"> 1. Pressure rollers are dirty or damaged. 	<ol style="list-style-type: none"> 1. Clean or repair pressure rollers.
Snake shaped marks on workpiece.	<ol style="list-style-type: none"> 1. Sanding belt damaged or dirty. 	<ol style="list-style-type: none"> 1. Clean or replace sanding belt.

W1710 Control Panel Wiring Connections

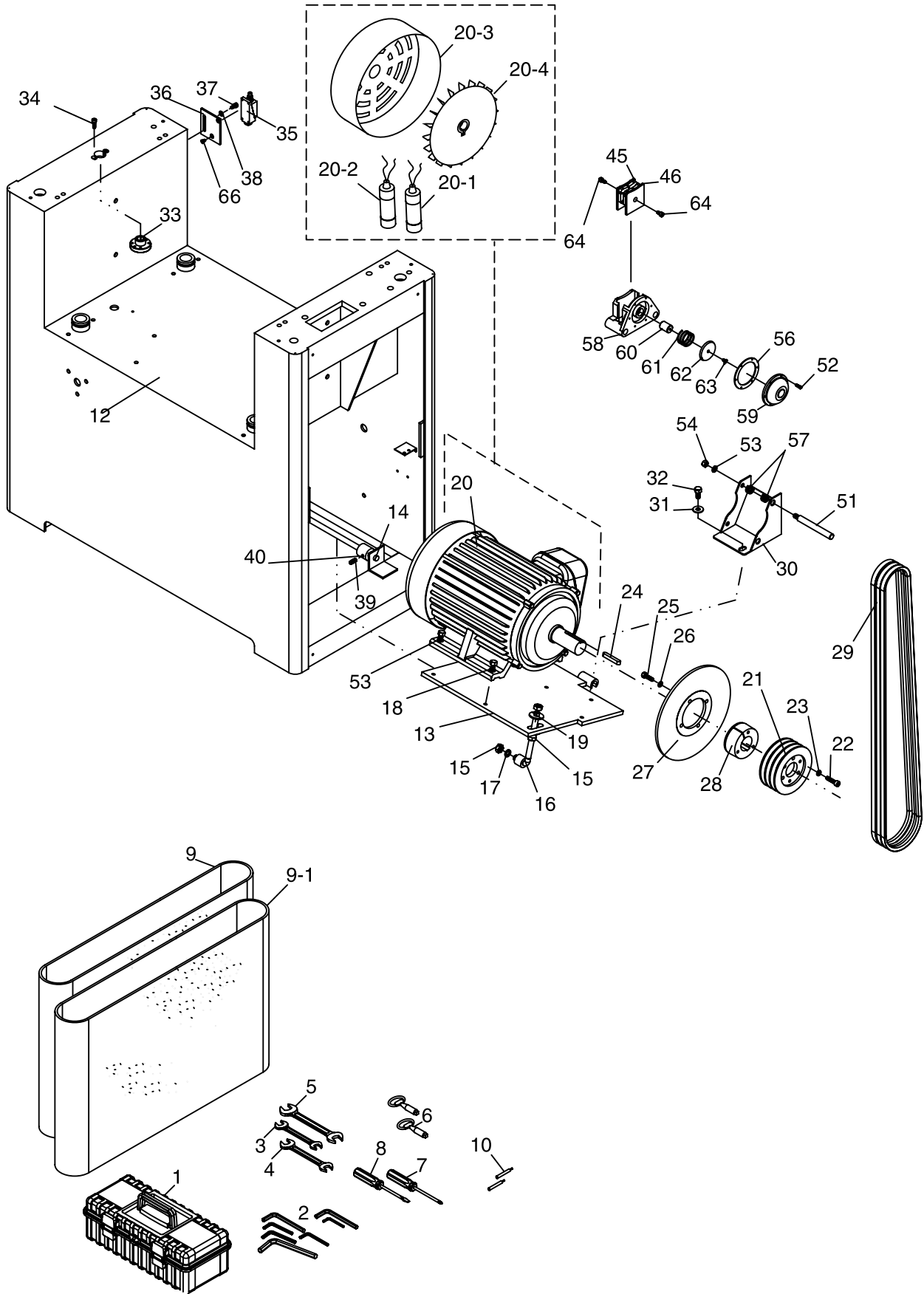


MAINTENANCE

W1710 Switch Box Wiring Connections



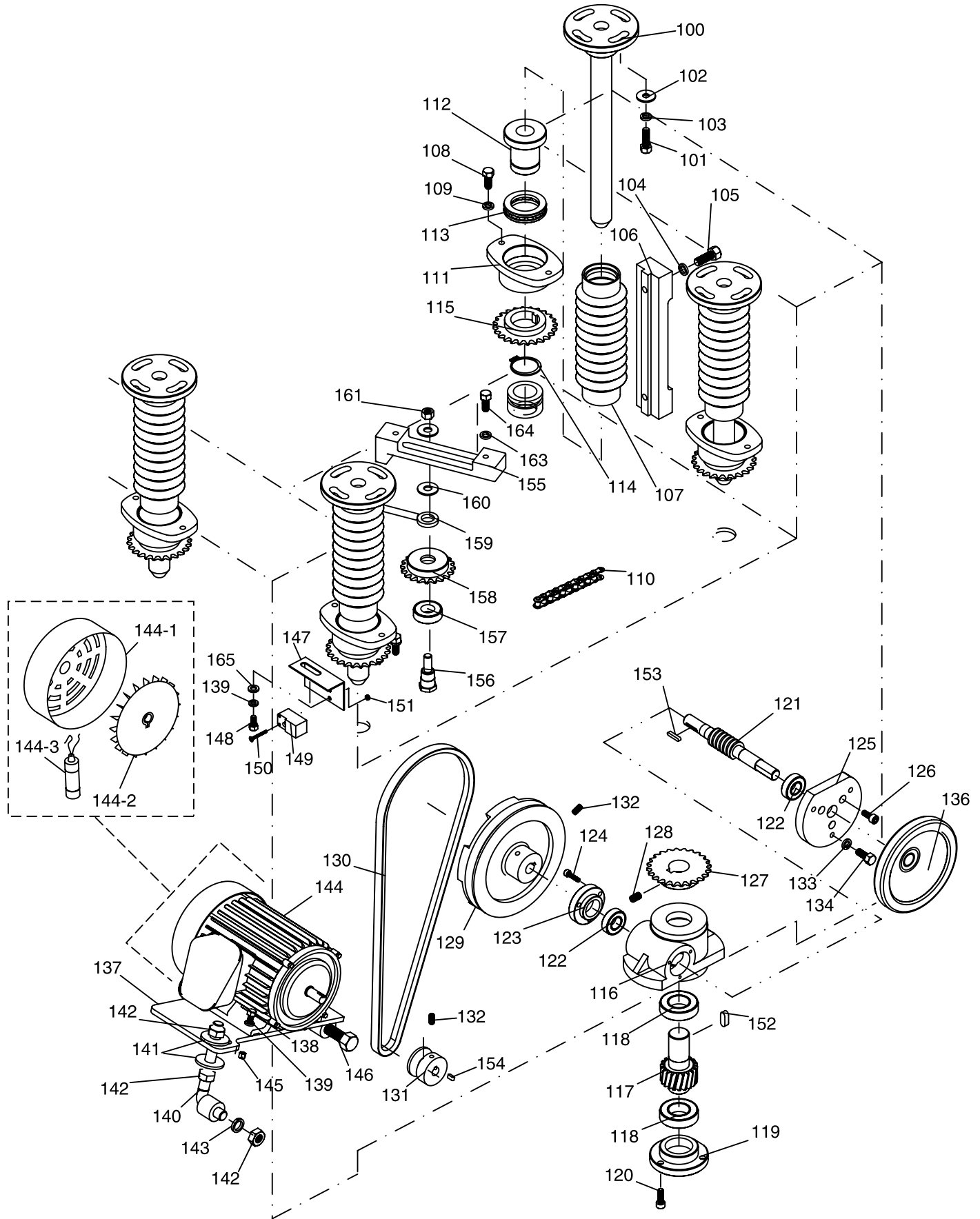
MAINTENANCE



PARTS

REF	PART #	DESCRIPTION
1	X1710001	TOOL BOX
2	X1709002	HEX WRENCH SET
3	XPWR810	COMBO WRENCH 8 X 10MM
4	XPWR1214	COMBO WRENCH 12 X 14MM
5	XPWR1719	COMBO WRENCH 17 X 19MM
6	X1706006	DOOR HANDLE
7	X1709007	PHILLIP'S SCREWDRIVER
8	X1709008	SLOT SCREWDRIVER
9	X1710009	A.O. SANDING BELT (150 GRIT)
9-1	X171009-1	A.O. SANDING BELT (100 GRIT)
-	D3312	A.O. SANDING BELT (60 GRIT)
-	D3313	A.O. SANDING BELT (80 GRIT)
-	D3314	A.O. SANDING BELT (100 GRIT)
-	D3315	A.O. SANDING BELT (120 GRIT)
-	D3316	A.O. SANDING BELT (150 GRIT)
-	D3317	A.O. SANDING BELT (180 GRIT)
-	D3318	A.O. SANDING BELT (220 GRIT)
10	X1709010	LIMIT SWITCH ROD
12	X1710012	MACHINE FRAME
13	X1710013	MOTOR BASE
14	X1710014	MOTOR BASE HINGE
15	XPN06	HEX NUT 1/2"-12
16	X1710016	ADJUSTMENT ROD
17	XPLW07	LOCK WASHER 1/2"
18	XPB24	HEX BOLT 3/8"-16 X 1 1/4"
19	XPW01	FLAT WASHER 1/2"
20	X17101109	MOTOR 10 HP, 1PH
20-1	XPC600A	START CAPACITOR (600MFD 250VAC)
20-2	X17101109-2	RUN CAPACITOR (100MFD 300VAC)
20-3	X17101109-3	FAN COVER
20-4	X17101109-4	FAN
21	X1710021	PULLEY
22	XPSB11	CAP SCREW 5/16"-18 X 1 1/4"
23	XPLW01	LOCK WASHER 5/16"

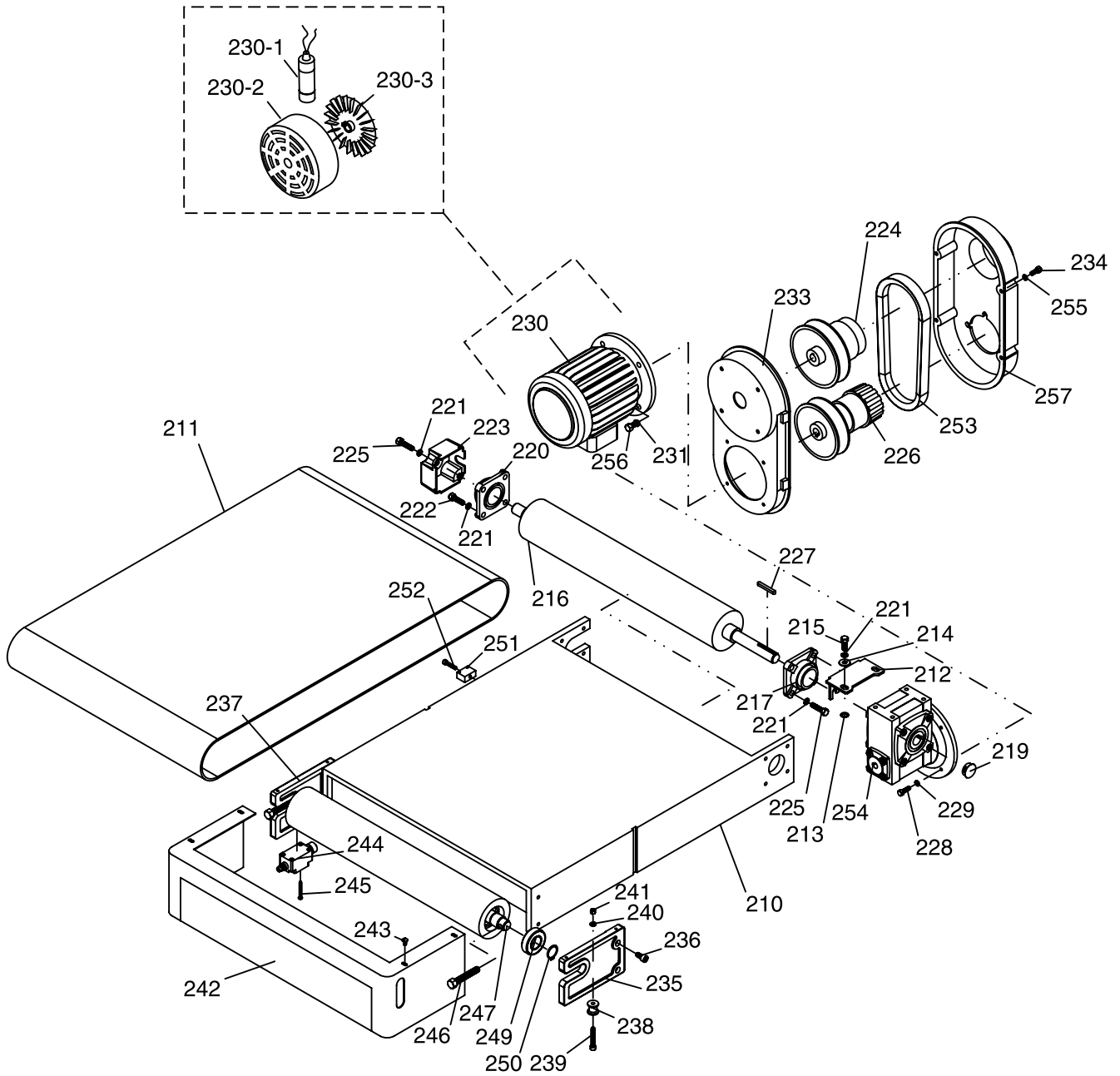
REF	PART #	DESCRIPTION
24	X1709024	KEY 10 X 8 X 75MM
25	XPB12	HEX BOLT 5/16"-18 X 1 1/4"
26	XPLW01	LOCK WASHER 5/16"
27	X1710027	BRAKE DISC
28	X1710028	PULLEY BUSHING
29	XPVB77	V-BELT B-77
30	X1710030	BRAKE BRACKET
31	XPW02	FLAT WASHER 3/8"
32	XPB21	HEX BOLT 3/8"-16 X 3/4"
33	X1710033	FLANGE HUB
34	XPSB05	CAP SCREW 1/4"-20 X 3/4"
35	X17101126	LIMIT SWITCH
36	X1710036	LIMIT SWITCH PLATE
37	XPB19	HEX BOLT 1/4"-20 X 1/2"
38	XPW06	FLAT WASHER 1/4"
39	XPSB07	CAP SCREW 5/16"-18 X 3/4"
40	X1710040	COLLAR
45	X17101302-1	BRAKE LINING
46	X17101302-2	BRAKE LINING
51	X1710051	BRAKE PIN
52	XPSB10M	CAP SCREW M5-0.8 X 15
53	XPLW04	LOCK WASHER 3/8"
54	XPN08	HEX NUT 3/8"-16
56	X17101313	BRAKE GASKET
57	X1710057	SPRING
58	X1710058	BRAKE HOUSING
59	X1710059	BRAKE FRONT GUARD
60	X1710060	BRAKE ARBOR
61	X1710061	BRAKE SPRING
62	X1710062	BRAKE INSIDE PIECE
63	XPFH12M	FLAT HD SCR M6-1 X 25
64	XPSB26M	CAP SCREW M6-1 X 12
66	XPS80	PHLP HD SCR 3/16"-32 X 1/4"



PARTS

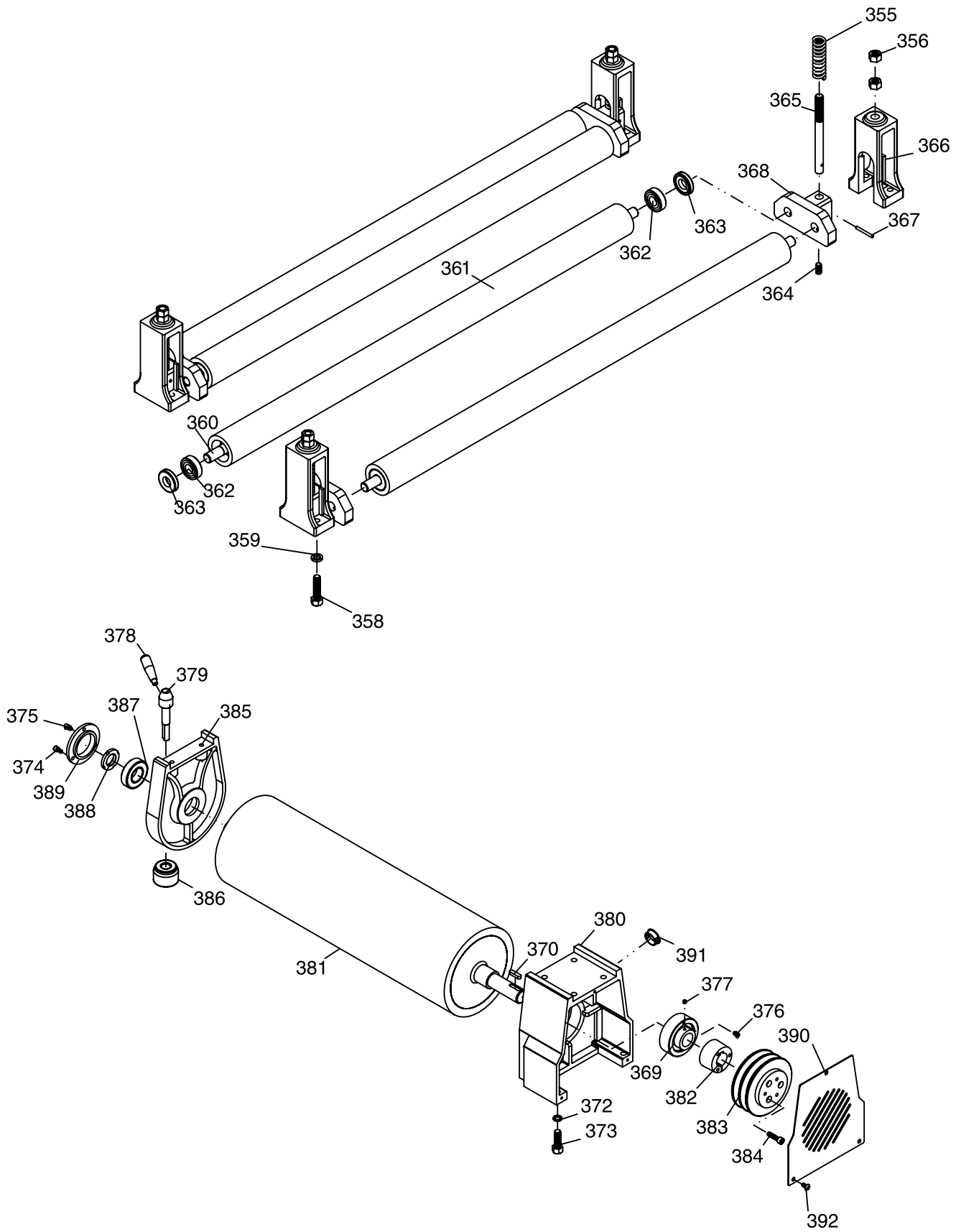
REF	PART #	DESCRIPTION
100	X1710100	ELEVATION SCREW
101	XPB03	HEX BOLT 5/16"-18 X 1"
102	XPW07	FLAT WASHER 5/16"
103	XPLW01	LOCK WASHER 5/16"
104	XPLW04	LOCK WASHER 3/8"
105	XPB18	HEX BOLT 3/8"-16 X 1"
106	X1710106	ELEVATION BRACKET
108	XPB07	HEX BOLT 5/16"-18 X 3/4"
109	XPLW01	LOCK WASHER 5/16"
110	X1710110	CHAIN
111	X1710111	NUT HOUSING
112	X1710112	COLLAR
113	XP51107	THRUST BEARING 51107
114	XPR12M	EXT RETAINING RING 35MM
115	X1710115	SPROCKET WHEEL
116	X1710116	ELEVATION GEAR BOX
117	X1710117	WORM GEAR
118	XP6005	BALL BEARING 6005
119	X1710119	BEARING CAP
120	XPSB05	CAP SCREW 1/4"-20 X 3/4"
121	X1710121	WORM SHAFT
122	XP6002	BALL BEARING 6002
123	X1710123	BEARING CAP
124	XPSB01M	CAP SCREW 10-24 X 5/8"
125	X1710125	BEARING CAP
126	XPSB01	CAP SCREW 1/4"-20 X 5/8"
127	X1710127	SPROCKET WHEEL
128	X1677043A	SET SCREW 1/4"-20 X 1/2"
129	X1710129	PULLEY
130	XPVA36	V-BELT A-36
131	X1710131	PULLEY
132	XPSS07	SET SCREW 1/4"-20 X 1/2"
133	XPLW01	LOCK WASHER 5/16"

REF	PART #	DESCRIPTION
134	XPB86	HEX BOLT 5/16"-18 X 3/4"
135	XPSS06	SET SCREW 1/4"-20 X 3/4"
136	X1709136	HAND WHEEL
137	X1710137	MOTOR BASE
138	XPB44	HEX BOLT 1/2"-20 X 3/4"
139	XPLW02	LOCK WASHER 1/4"
140	X1710140	ADJUSTMENT ROD
141	XPW01	FLAT WASHER 1/2"
142	XPN06	HEX NUT 1/2"-12
143	XPLW07	LOCK WASHER 1/2"
144	X17102331	MOTOR 1/3 HP, 1 PH
144-1	X17102331-1	FAN COVER
144-2	X17102331-2	FAN
144-3	XPC100A	CAPACITOR 100MFD/250VAC
145	XPN05	HEX NUT 1/4"-20
146	XPB73	HEX BOLT 1/2"-12 X 4 1/2"
147	X1710147	MOUNTING PLATE
148	XPB19	HEX BOLT 1/4"-20 X 1/2"
149	X17102336	PROXIMITY SWITCH
150	X1710150	PHLP HD SCR M3-0.5 X 35
151	XPN07M	HEX NUT M3-0.5
152	XPK14	KEY 5/16" X 5/16" X 3/4"
153	XPK48M	KEY 4 X 4 X 20MM
154	XPK48M	KEY 4 X 4 X 20MM
155	X1710155	ADJUSTMENT HOUSING
156	X1710156	SPROCKET SHAFT
157	XP6003	BALL BEARING 6003
158	X1710158	SPROCKET WHEEL
159	X1710159	ADJUSTMENT ROD
160	XPW02	FLAT WASHER 3/8"
161	XPN08	HEX NUT 3/8"-16"
163	XPLW01	LOCK WASHER 5/16"
164	XPB07	HEX BOLT 5/16"-18 X 3/4"



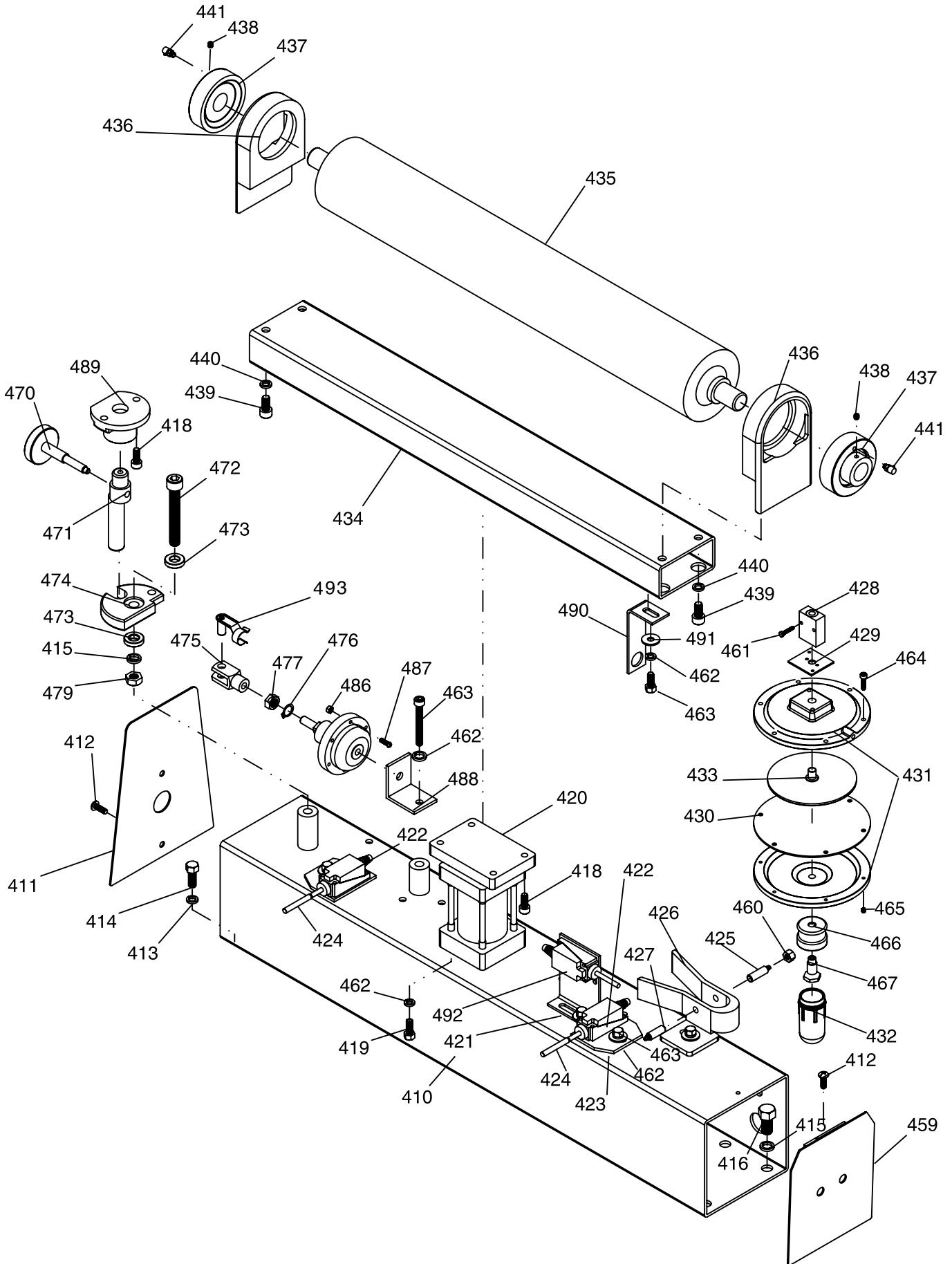
REF	PART #	DESCRIPTION
210	X1710210	CONVEYOR TABLE
211	X17103102	CONVEYOR BELT
212	X1710212	GEARBOX FIX PLATE
213	X1710213	CUSHION
214	XPLW04	LOCK WASHER 3/8"
215	XPB18	HEX BOLT 3/8"-16 X 1"
216	X1710216	OUTFEED ROLLER
217	X1710217	BALL BEARING UCF205
219	X1710219	PLUG
220	X1710217	BALL BEARING UCF205
221	XPLW04	LOCK WASHER 3/8"
222	XPB24	HEX BOLT 3/8"-16 X 1 1/4"
223	X1710223	BEARING CAP
224	X1710224	DRIVEN PULLEY
225	XPB16	HEX BOLT 3/8"-16 X 1 1/2"
226	X1710226	DRIVING PULLEY
227	XP66M	KEY 7 X 7 X 55MM
228	XPB07M	HEX BOLT M8-1.25 X 25MM
229	XPLW04M	LOCK WASHER 8MM
230	X17103123	MOTOR 1 HP, 1 PH
230-1	XPC400C	CAPACITOR (400MFD 250VAC)
230-2	X17103123-2	FAN COVER
230-3	X17103123-3	FAN
231	XPLW06M	LOCK WASHER 10MM
233	X17103128	BASE PLATE

REF	PART #	DESCRIPTION
234	XPB09M	HEX BOLT M8-1.25 X 20MM
235	X17103131	INFEED ROLLER BRACKET
236	XPSB16	CAP SCREW 3/8"-16 X 3/4"
237	X17103133	INFEED ROLLER BRACKET
238	X1710238	POSITIONING WHEEL
239	XPSB70	CAP SCREW 5/16"-18 X 2"
240	XPLW01	LOCK WASHER 5/16"
241	XPN02	HEX NUT 5/16"-18
242	X1710242	FRONT BRAKE COVER
243	XPS04	PHLP HD SCR 1/4"-20 X 1/2"
244	X17103142	LIMIT SWITCH
245	XPS10	PHLP HD SCR 10-24 X 1 1/2"
246	X1710246	SPECIAL BOLT 1/2"-12 X 3"
247	X1710247	INFEED ROLLER SHAFT
248	X1710248	INFEED ROLLER
249	XP6206	BALL BEARING 6206
250	XPR15M	EXT RETAINING RING 30MM
251	X1710251	ELEVATION LIMITER
252	XPSB18	CAP SCREW 1/4"-20 X 1 1/2"
253	X1710233	SPECIAL BELT
254	X1710254	REDUCER
255	XPLW04M	LOCK WASHER 8MM
256	XPB09M	HEX BOLT M8-1.25 X 20MM
257	X17103129	COVER



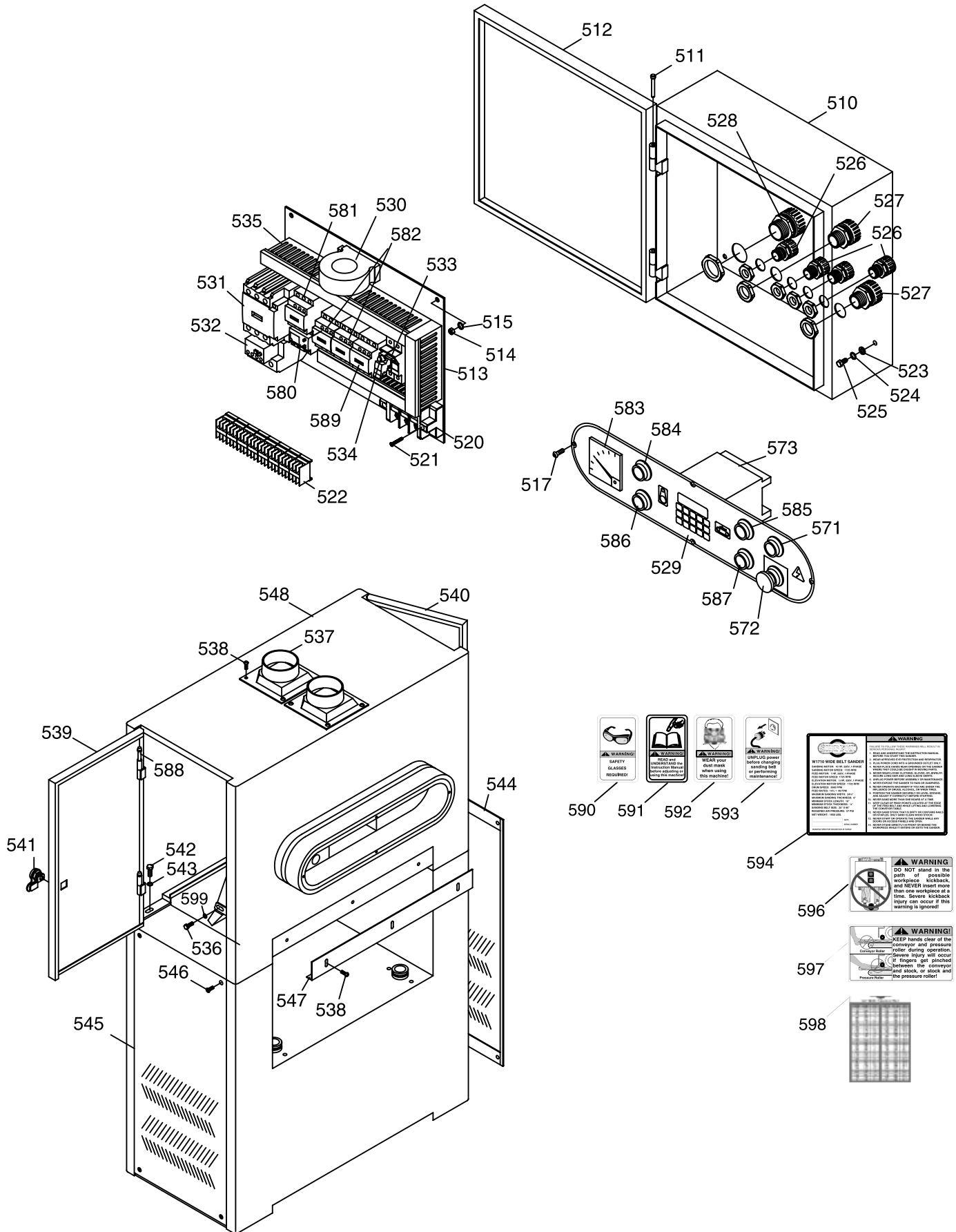
REF	PART #	DESCRIPTION
355	X1710355	SPRING
356	XPN08	HEX NUT 3/8"-16
358	XPSB11	CAP SCREW 5/16"-18 X 1 1/4"
359	XPLW01	LOCK WASHER 5/16"
360	X1710360	PISTON ROLLER SHAFT
361	X17104202	PISTON ROLLER
362	XP6001	BALL BEARING 6001
363	X1710363	SHAFT BEARING COLLAR
364	XPB76	SET SCREW 1/4"-20 X 3/4"
365	X1710365	PISTON ROLLER ADJ. ROD
366	X1710366	PISTON BRACKET
367	XPRP55M	ROLL PIN 3 X 27MM
368	X1710368	PISTON SLIDERAIL
369	XP6205	BEARING UCC205
370	XPK11	KEY 5/16" X 5/16" X 1 3/16"
372	XPLW07	LOCK WASHER 1/2"
373	XPB41	HEX BOLT 1/2"-12 X 1 1/2"
374	XPSB04	CAP SCREW 1/4"-20 X 1/2"

REF	PART #	DESCRIPTION
375	X1710375	FILTER
376	X1710376	GREASE FITTING 1/4"-28 X 45°
377	XPSS02M	SET SCREW M6-1.0 X 6
378	X17105205	LOCK LEVER HANDLE
379	X17105206	LOCK LEVER SHAFT
380	X1710380	BEARING HOUSING
381	X1710381	RUBBER ROLLER
382	X1710382	FASTENING TUBE
383	X1710383	PULLEY
384	XPSB11	CAP SCREW 5/16"-18 X 1 1/4"
385	X1710385	BEARING HOUSING
386	X1710386	BEARING BRACKET PAD
387	XP6206	BEARING 6206-2RS
388	X1710388	SPANNER NUT
389	X1710389	BEARING CAP
390	X17105417	PULLEY COVER
391	X1710391	PLUG
392	XPS07	PHLP HD SCR 1/4"-20 X 3/8"



REF	PART #	DESCRIPTION
410	X1710410	SQUARE FRAME
411	X1710411	SQUARE FRAME SEAL (LEFT)
412	XPFH03	FLAT HD SCR 1/4"-20 X 1/2"
413	XPLW04	LOCK WASHER 3/8"
414	XPB18	HEX BOLT 3/8"-16 X 1"
415	XPLW07	LOCK WASHER 1/2"
416	XPB53	HEX BOLT 1/2"-12 X 1"
418	XPSB07	CAP SCREW 5/16"-18 X 3/4"
419	XPB09M	HEX BOLT M8-1.25 X 20
420	X1710420	AIR CYLINDER
421	X1710421	LIMIT SWITCH HOLDER
422	X17106115	LIMIT SWITCH
423	X1710423	LIMIT SWITCH HOLDER
424	X17106116	LIMIT SWITCH TUBE
425	X17106118	AIR SENSOR NOZZLE (FEMALE)
426	X1710426	AIR CYLINDER BRACE
427	X17106120	AIR SENSOR NOZZLE (MALE)
428	X1710428	THROTTLE VALVE
429	X1710429	THROTTLE VALVE BASE
430	X1710430	PLATE
431	X1710431	ALUMINUM DISC
432	X1710432	OIL CAP
433	X1710433	POWER OFF PLATE
434	X1710434	UPPER ROLLER BRACKET
435	X1710435	UPPER ROLLER
436	X1710436	UPPER BEARING HOUSING
437	X1710437	UNIVERSAL BEARING ASSY.
438	XPSS02M	SET SCREW M6-1 X 6
439	XPSB16	CAP SCREW 3/8"-16 X 3/4"

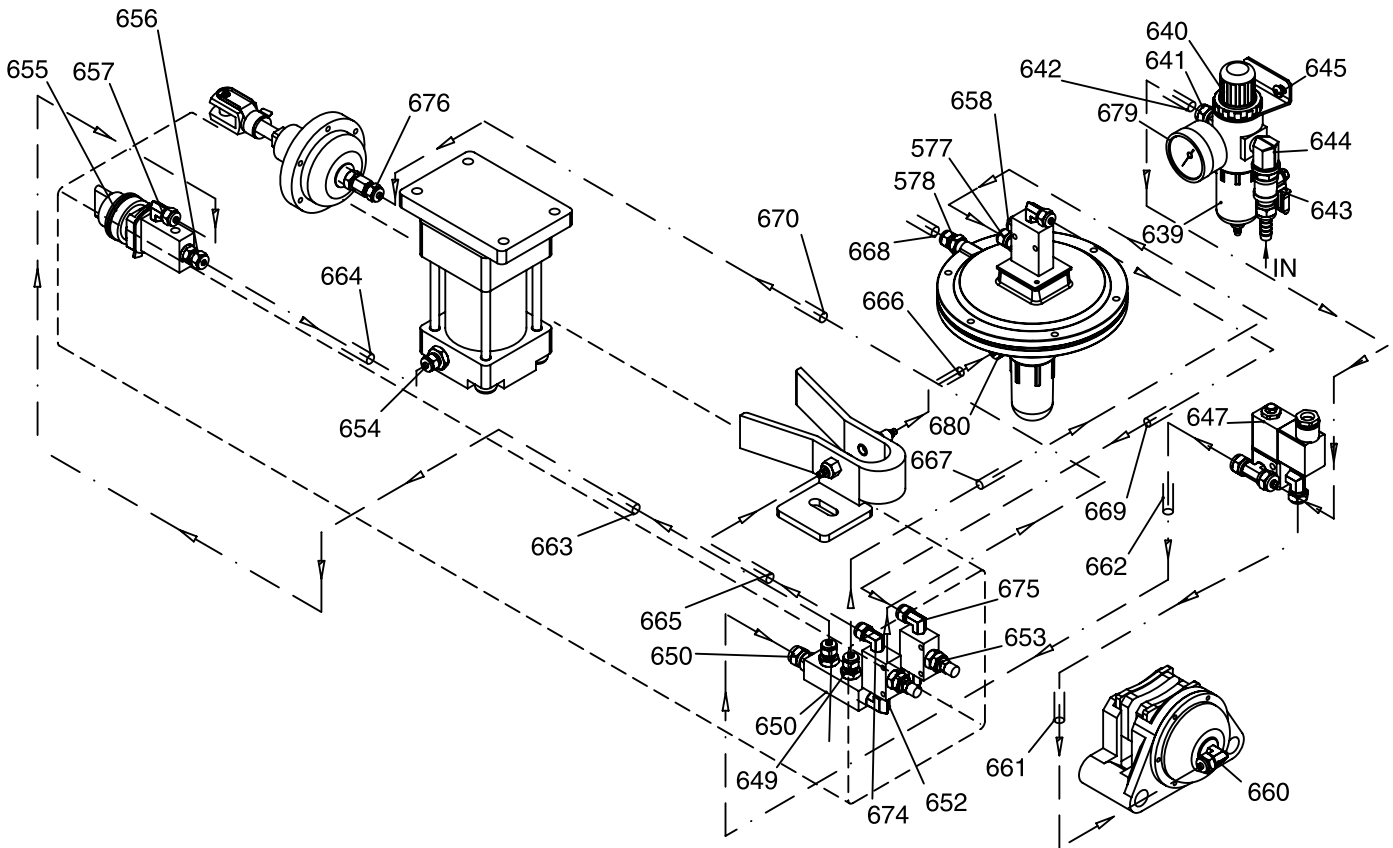
REF	PART #	DESCRIPTION
440	X1710440	SPLIT RING
441	X1710441	FILTER
445	XPLW04	LOCK WASHER 3/8"
447	X1710447	UPPER FRAME COVER
448	X1709448	DUST PORT 4"
459	X1710459	SQUARE FRAME SEAL (RIGHT)
460	XPN11	HEX NUT 3/8"-24
461	XPS52M	PHLP HD SCR M4-0.7 X 20
462	XPLW01	LOCK WASHER 5/16"
463	XPB507	HEX BOLT 5/16"-18 X 3/4"
464	X1710464	SPECIAL SCREW 10-24 X 3/4"
465	XPN07	HEX NUT 10-24
470	X1710470	TRIMMING SCREW
471	X1710471	ECCENTRIC ROD
472	X1710472	CAP SCREW 1/2"-12 X 3 1/2"
473	XPW01	FLAT WASHER 1/2"
474	X1710474	ECCENTRIC PIECE
475	X1710475	UNIVERSAL JOINT FORK
476	XPR05M	EXT RETAINING RING15MM
477	XPN02M	HEX NUT M10-1.5
479	XPN07	HEX NUT 10-24
486	XPN06M	HEX NUT M5-0.8
487	XPS08	PHLP HD SCR 10-24 X 3/4"
488	X1710488	AIR CYLINDER BASE
489	X1710489	ECCENTRIC SHAFT FRAME
490	X1710490	PLATE
491	XPW07	FLAT WASHER 5/16"
492	X17106115-1	LIMIT SWITCH



PARTS

REF	PART #	DESCRIPTION
510	X1710510	CONTROL BOX
511	X1710511	HINGE
512	X1710512	CONTROL BOX DOOR
513	X1710513	BASE PLATE
514	XPN05	HEX NUT 1/4"-20
515	XPLW02	LOCK WASHER 1/4"
517	XPS07M	PHLP HD SCR M4-0.7 X 8
520	X1710520	POWER WIRE TERMINAL
521	XPS51M	PHLP HD SCR M4-0.7 X 30
522	X1710522	TERMINAL PLATE
523	XPW06	FLAT WASHER 1/4"
524	XPLW02	LOCK WASHER 1/4"
525	XPB19	HEX BOLT 1/4"-20 X 1/2"
526	X1710526	PU CONNECTOR 1/2"
527	X1710527	PU CONNECTOR 3/4"
528	X1710528	CABLE CONNECTOR 1"
529	X17108107	CONTROL PANEL
530	X17108109	PROPORTIONAL CURRENT DEVICE
531	X17108111	MAG. CONTACTOR (LC1-D50)
532	X17108112	OVERLOAD RELAY (LR3-D33)
533	X17108113-1	FUSE HOUSING
534	X17108113-2	FUSE 4-AMP
535	X1710535	WIRE COLUMN
536	XPB02M	HEX BOLT M6-1 X 12
537	X1710537	DUST PORT 4"
538	XPS14M	PHLP HD SCR M6-1 X 12
539	X1710539	LEFT DOOR, UPPER FRAME
540	X1710540	RIGHT DOOR, UPPER FRAME
541	X1710541	DOOR LOCK

REF	PART #	DESCRIPTION
542	XPB507	HEX BOLT 5/16"-18 X 3/4"
543	XPW07	FLAT WASHER 5/16"
544	X1710544	RIGHT DOOR, LOWER FRAME
545	X1710545	LEFT DOOR, LOWER FRAME
546	XPS04	PHLP HD SCR 1/4"-20 X 1/2"
547	X1710547	PLATE
548	X1710548	UPPER FRAME COVER
571	X17108130	POWER INDICATION LIGHT
572	X17108131	EMERGENCY STOP SWITCH
573	X17108133	COMPUTER
580	X17108114	OVERLOAD RELAY (LR3D-086)
581	X17108115	MAG. CONTACTOR (LC1-096)
582	X17108115-1	MAG. CONTACTOR (LC1-096 (W/LOCK))
583	X17108126	AMP METER
584	X17108128-1	START SWITCH
585	X17108128-2	START SWITCH
586	X17108129-1	STOP SWITCH
587	X17108129-2	STOP SWITCH
588	X1710588	HINGE PIN
589	X17108115-2	MAG. CONTACTOR (LC1-096)
590	X1709466	LABEL, SAFETY GLASSES
591	X1709467	LABEL, READ MANUAL
592	X1709468	LABEL, RESPIRATOR
593	X1709469	LABEL, UNPLUG POWER
594	X1710594	LABEL, MACHINE DATA
596	X1709471	LABEL, OPERATION WARNING
597	X1709473	LABEL, HAND WARNING
598	X1709474	LABEL, CONVERSION TABLE
599	XPLW02	LOCK WASHER 1/4"

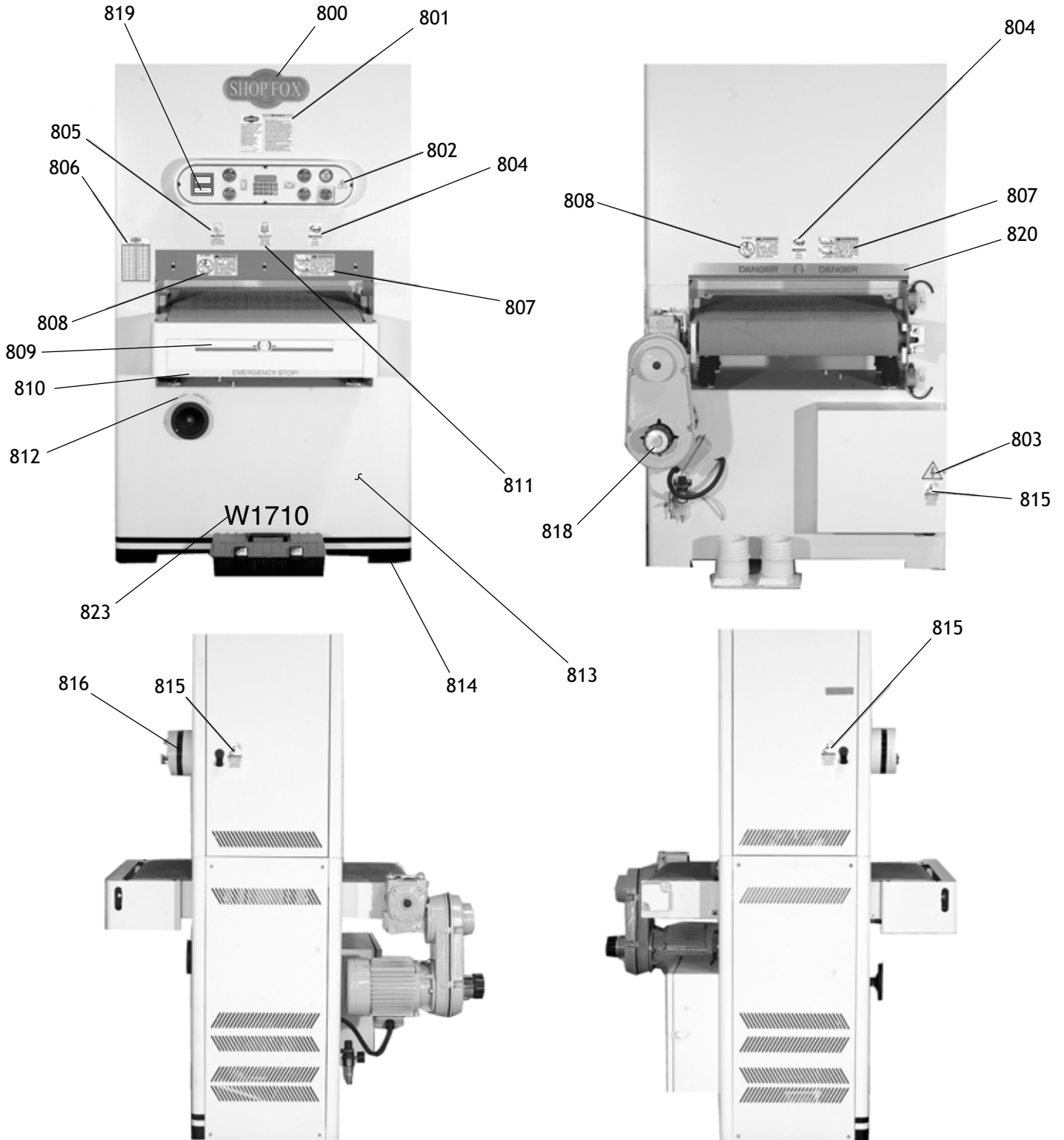


REF	PART #	DESCRIPTION
639	X1709539	FILTER CUP 1/4"
640	X1709540	PRESSURE REGULATOR 1/4"
641	X1709541	CONNECTOR 1/4TX 5/16N
642	X1710642	FLEXIBLE HOSE 8MM
643	X1709543	AIR VALVE 1/4"
644	X1709544	ELBOW 1/4T X 5/16N
645	XPS01	PHLP HD SCR 10-24 X 1/2"
646	X1709546	ELBOW 1/4 X 1/8 T
647	X1709547	SOLENOID VALVE
648	X1709548	T-JOINT 5/16N X 1/8T X 5/16N
649	X1709549	CONNECTOR 1/4N X 1/4T
650	X1710650	MULTIPLE HOLE CONNECTOR
651	X1710651	CONNECTOR 5/16N X 1/4T
652	X1710652	BRONZE ELBOW
653	X1710653	THROTTLE VALVE 1/8"
654	X1709554	CONNECTOR 1/4N X 3/8T
655	X1709555	AIR SWITCH 1/8"
656	X1709556	CONNECTOR 1/4N X 1/8T
657	X1709557	CONNECTOR 1/4N X 1/8T

REF	PART #	DESCRIPTION
658	X1709558	BUFFER 1/8"
659	X1710659	MULTIPLE HOLE CONNECTOR
660	X1709560	CONNECTOR 5/16N X 1/8T
661	X1710661	FLEXIBLE HOSE
662	X1710662	FLEXIBLE HOSE
663	X1710663	FLEXIBLE HOSE
664	X1710664	FLEXIBLE HOSE
665	X1710665	FLEXIBLE HOSE
666	X1710666	FLEXIBLE HOSE
667	X1710667	FLEXIBLE HOSE
668	X1710668	FLEXIBLE HOSE
669	X1710669	FLEXIBLE HOSE
670	X1710670	FLEXIBLE HOSE
674	X1709557	PLASTIC CONNECTOR
675	X1709557	PLASTIC CONNECTOR
676	X1710676	PLASTIC CONNECTOR
679	X1710690	GAUGE
680	X1710691	PLASTIC CONNECTOR

⚠️ WARNING

The safety labels on this machine warn and indicate how to protect the operator or bystander from machine hazards. The machine owner **MUST** maintain the original label location and readability. If a label is removed or becomes unreadable, **REPLACE** the label before using the machine. For new labels, contact Woodstock International at (360) 734-3482 or www.shopfox.biz.



REF	PART #	DESCRIPTION
800	X1737127	SHOP FOX LOGO PLATE
801	X1710594	LABEL (MACHINE DATA)
802	X1737802	LABEL (CONTROL PANEL)
803	XLABEL02B	LABEL (DISCONNECT POWER)
804	XLABEL01	LABEL (SAFETY GLASSES)
805	XLABEL06	LABEL (READ MANUAL)
806	XLABEL11	LABEL (CONVERSION CHART)
807	XLABEL13	LABEL (CONVEYOR PINCH)
808	XLABEL12	LABEL (SANDER KICKBACK)
809	X1738809	LABEL (BRAKE)
810	X1738810	LABEL (EMERGENCY STOP)

REF	PART #	DESCRIPTION
811	XLABEL06	LABEL (USE RESPIRATOR)
812	X1737812	LABEL (DIRECTION)
813	XPAINTSF102	TAN TOUCH-UP PAINT
814	X1738814	BLACK/TAN TRIM TAPE
815	XLABEL03	LABEL (CLOSE DOOR)
816	X1738816	BLACK TRIM TAPE
818	X1737818	LABEL (SPEED LABEL)
819	X1737819	LABEL AMP LOAD (W1710)
820	X1738820	LABEL (DANGER STRIPE)
823	X1737823	LABEL (W1710)

Accessories

The following sander accessories may be available through your local Woodstock International Inc. Dealer. If you do not have a dealer in your area, these products are also available through online dealers. Please call or e-mail Woodstock International Inc. Customer Service to get a current listing of dealers at: 1-800 840-8420 or at sales@woodstockint.com.

The SHOP FOX® Heavy-Duty Roller Stands and Roller Tables make your sander safer and easier to use. All models feature convenient hand knobs for fast height adjustment and offer rigid steel construction. These stands are invaluable for supporting extra long workpieces on sanders. Go to <http://www.shopfox.biz/rollerstand.cfm> to view all of the available roller tables and stands.



The D2271 SHOP FOX® Heavy-Duty Roller Table is a versatile roller table wherever you need extra workpiece support for up to 1,000 lb. capacity. It features all-steel welded construction and measures 19" x 65" long. The roller table also comes with 9 ball bearing rollers with four independently adjustable legs for any leveling requirement. The roller table is also adjustable in height from 26³/₈" to 44¹/₈".



The W1100 SLICKPLANE® with Radius Blade produces an exceptionally smooth 1/16" radius or a 45° chamfer over the entire length of an edge after your workpiece. Crafted from rock maple, The SLICKPLANE® is designed to fit comfortably in your hand. A brass sole glides easily along the workpiece edge as two independently adjustable carbide-tipped cutters apply the finishing touch.

W1101 1 Pr. Carbide-Tipped Radius Blades

W1102 1 Pr. Carbide-Tipped Chamfer Blades

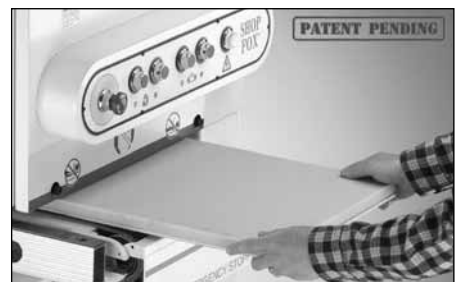


The D2258 Shop Flash™ is perfect for workshops with loud machinery running or when you must wear hearing protection. The shop flash built-in audible sound or flashing light or both alerts you when your shop phone rings. The Shop Flash™ requires no batteries and includes AC/DC adapter and microphone with 14' cord that easily attaches to your telephone.



The D3003 15" x 20" Cleaning Pad for Wide-Belt Sanders.

The perfect accessory for wide-belt sanders, just set your table and feed this cleaning pad through for longer lasting abrasive belts. Pad measures 15" x 20" x 1¹/₈" high.



Warranty Registration

Name _____
Street _____
City _____ State _____ Zip _____
Phone # _____ Email _____ Invoice # _____
Model # _____ 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.

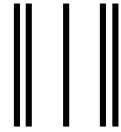
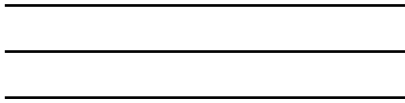
1. How did you learn about us?
 Advertisement Friend Local Store
 Mail Order Catalog Website Other:
2. How long have you been a woodworker/metalworker?
 0-2 Years 2-8 Years 8-20 Years 20+ Years
3. How many of your machines or tools are **Shop Fox®**?
 0-2 3-5 6-9 10+
4. Do you think your machine represents a good value? Yes No
5. Would you recommend **Shop Fox®** products to a friend? Yes No
6. What is your age group?
 20-29 30-39 40-49
 50-59 60-69 70+
7. What is your annual household income?
 \$20,000-\$29,000 \$30,000-\$39,000 \$40,000-\$49,000
 \$50,000-\$59,000 \$60,000-\$69,000 \$70,000+
8. Which of the following magazines do you subscribe to?

<input type="checkbox"/> Cabinet Maker	<input type="checkbox"/> Popular Mechanics	<input type="checkbox"/> Today's Homeowner
<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Popular Science	<input type="checkbox"/> Wood
<input type="checkbox"/> Hand Loader	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Wooden Boat
<input type="checkbox"/> Handy	<input type="checkbox"/> Practical Homeowner	<input type="checkbox"/> Woodshop News
<input type="checkbox"/> Home Shop Machinist	<input type="checkbox"/> Precision Shooter	<input type="checkbox"/> Woodsmith
<input type="checkbox"/> Journal of Light Cont.	<input type="checkbox"/> Projects in Metal	<input type="checkbox"/> Woodwork
<input type="checkbox"/> Live Steam	<input type="checkbox"/> RC Modeler	<input type="checkbox"/> Woodworker West
<input type="checkbox"/> Model Airplane News	<input type="checkbox"/> Rifle	<input type="checkbox"/> Woodworker's Journal
<input type="checkbox"/> Modeltec	<input type="checkbox"/> Shop Notes	<input type="checkbox"/> Other:
<input type="checkbox"/> Old House Journal	<input type="checkbox"/> Shotgun News	

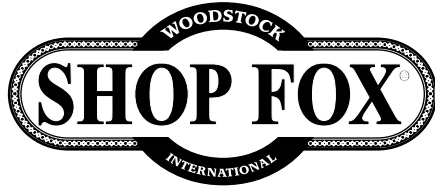
9. Comments: _____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE



Place
Stamp
Here



WOODSTOCK INTERNATIONAL, INC.
P.O. BOX 2309
BELLINGHAM, WA 98227-2309



FOLD ALONG DOTTED LINE

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

