WOODSTOCK INTERNATIONAL

SHOP FOX®

MODEL W1803
STRAIGHT LINE RIP SAW

OWNER'S MANUAL

Phone: (360) 734-3482 • Online Technical Support: tech-support@shopfox.biz

#9508TS **Printed in Taiwan**

⚠ WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

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

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

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

⚠ WARNING!

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

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

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

Contents

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

INTRODUCTION

Woodstock Technical Support

Your new Shop Fox Model W1803 Straight Line Rip Saw 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.

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

We stand behind our machines! In the event that questions arise about your machine, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: **tech-support@shopfox.biz**. Our knowledgeable staff will help you troubleshoot problems and process warranty claims.

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

Woodstock International, Inc.
Attn: Technical Documentation Manager
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Email: manuals@woodstockint.com

MACHINE SPECIFICATIONS

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

MODEL W1803
STRAIGHTLINE RIP SAW

Motor

Type	TEFC Induction
Horsepower	15 HP Main motor; 2 HP Feed Motor
Phase-Type/Voltage	3-Phase, 220/440V
Prewired	220V
Amps	37/18 1/2 Main Motor; 6/3 Feed Motor
Speed	1725 RPM Main Motor, 1725 RPM Feed Motor
Switch	Magnetic with Thermal Overload Protection
Power Transfer	V-Belt Drive
Bearings	Shielded and Permanently Lubricated Ball

Capacities

Maximum Cuttling Height	3 7/8"
Maximum Cutting Hight W/Auxiliary Rollers	2 1/4"
Maximum Width of Cut	18 1/16"
Maximum Distance From Blade to Column	18"
Maximum Blade Diameter	10"-12"
Minimum Cutting Length	8" W/Auxiliary Hold-Down Roller Kit
Arbor Size	1"
Spindle Speed	4500 RPM
Feed Speed	30-112 FPM

Overall Dimensions

Table Height	32 1/4"
Table Size	53 1/8"W x 37 3/8"D
Crate Size	59"W x 45"D X 66"H
Footprint	35" x 30 1/8"
Net Weight	1980 lbs.
Shipping Weight	2243 lbs.

Construction Materials

Table	Precision Machined Steel
Cabinet	Steel
Rails	Hardened and Precision Ground Cast Iron
Anti-Kickback Fingers	Steel
Spindle Bearings	Shielded and Permanently Lubricated
Blade Gaurd	Pre-Formed Steel
Fence	Precision Machined Cast Iron Body

Controls and Features

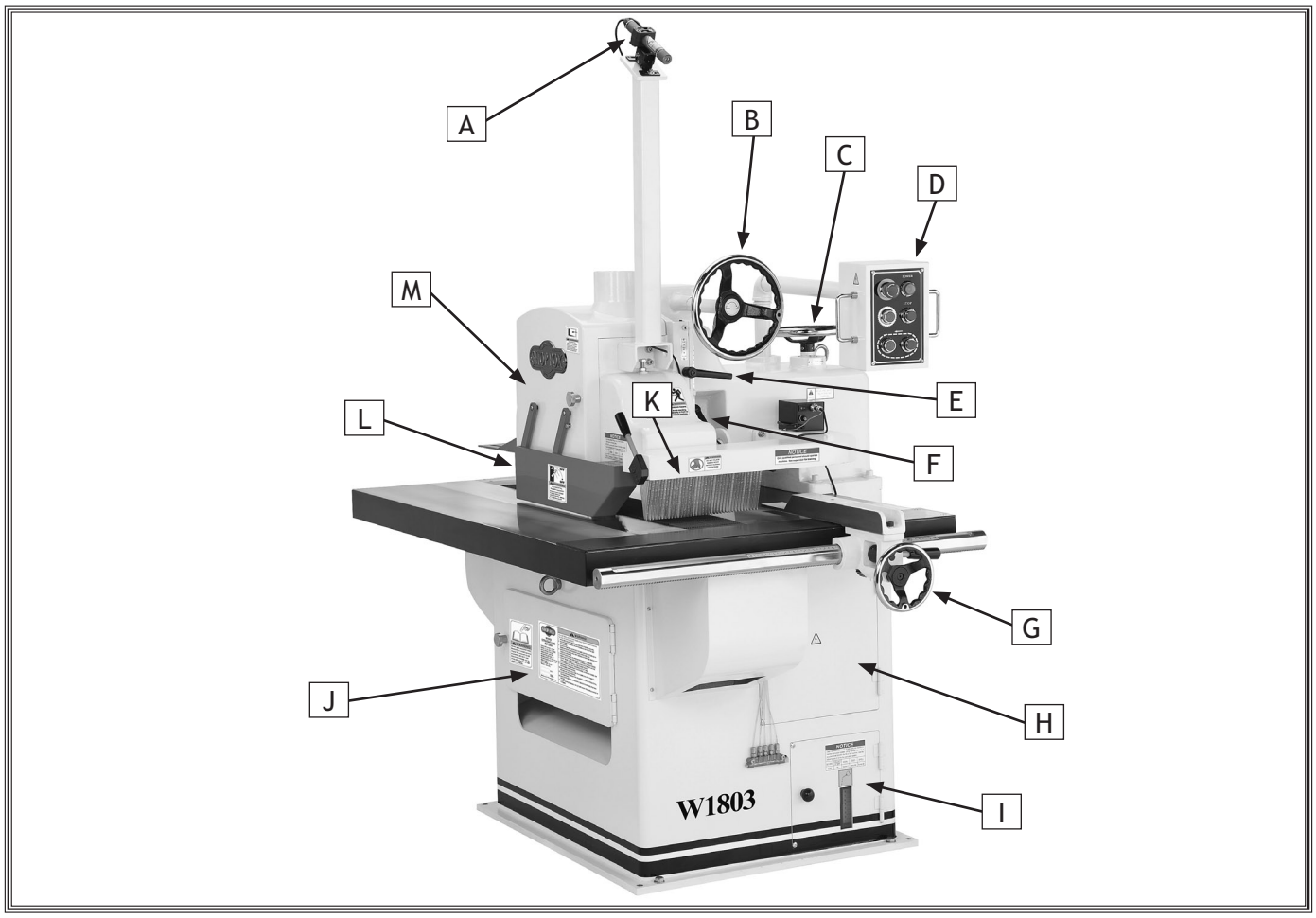


Figure 1. Model W1803 identification.

A. Laser Guide (Optional). Provides laser point guide for cut line.

B. Headstock Elevation Handwheel. Adjusts the height of the headstock and pressure roller assemblies from the table.

C. Blade Elevation Handwheel. Adjusts the height of the blade from the track.

D. Control Panel. Location of start and stop buttons that power the saw and conveyor.

E. Headstock Elevation Lock. Locks the headstock and pressure roller assemblies.

F. Blade Elevation Lock. Secures the blade height setting.

G. Fence Handwheel. Moves the rip fence along the fence rail.

H. Electrical Access. Provides access to the electrical panel for maintenance.

I. Oil Reservoir Access. Provides access to oil reservoir for maintenance.

J. Lower Conveyor Track Access. Provides access to the lower conveyer track and lubrication brushes.

K. Anti-Kickback Fingers. Prevents the workpiece from being ejected back out of the saw towards the operator.

L. Blade Guard. Protects operator and bystanders from the blade and flying wood particles.

M. Blade Access. Provides working access to the blade and roller assemblies.

Figures 2-4

N. Saw Blade. Performs the cutting operation.

O. Lubrication Points. (2 of 4) Grease fittings that require periodical lubrication.

P. Main Pressure Rollers. (1 of 4) Holds the workpiece against the conveyor track during the cutting operation.

Q. Auxiliary Pressure Rollers. (2 of 4) Must be installed and used when rip cutting workpieces shorter than 8 1/2" long.

R. Variable Speed Conveyor Control. Turn the knob counterclockwise to increase conveyor track speed, and clockwise to decrease the speed. The speed is variable between 30–112 FPM.

S. Emergency Stop Button. Disconnects power to all motors.

T. Power Light. Indicates there is power to the control panel when lit.

U. Saw Motor Stop Button. Turns power ***OFF*** to the saw motor.

V. Conveyor Motor Stop Button. Turns power ***OFF*** to the conveyor motor.

W. Conveyor Motor Start Button. Turns power ***ON*** to the conveyor motor.

X. Saw Motor Start Button. Turns power ***ON*** to the saw motor.

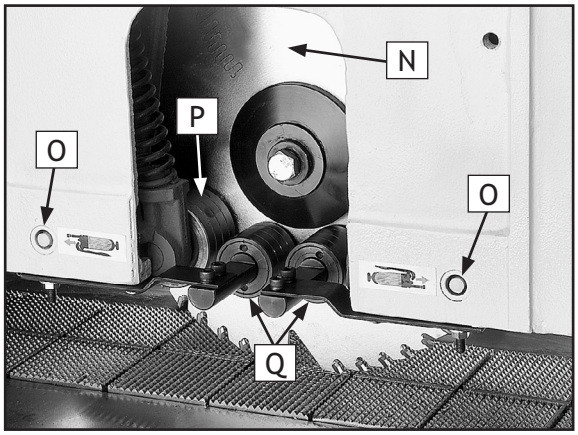


Figure 2. Blade compartment.

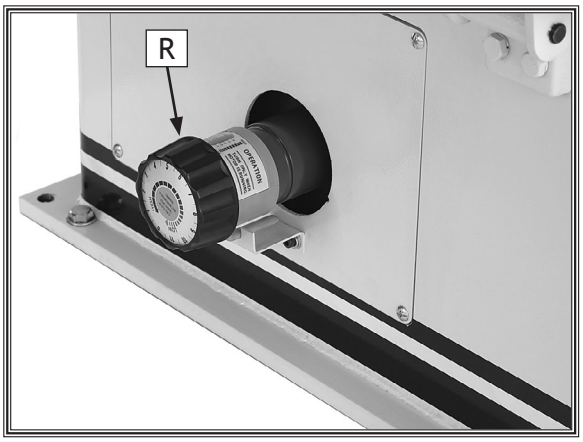


Figure 3. Variable conveyor speed control.

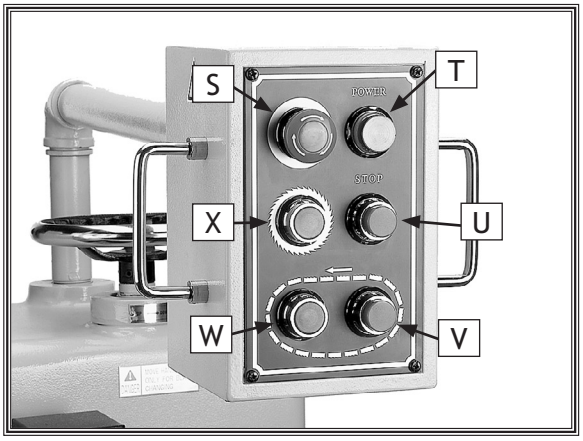


Figure 4. Control panel.

SAFETY

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

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

⚠WARNING Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠CAUTION 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, and/or a situation that may cause damage to the machinery.

Standard Safety Instructions

1. **READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY.** Machinery presents serious injury hazards to untrained users.

2. **ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY.** Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.

3. **ALWAYS WEAR AN NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.** Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.

4. **ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.** Machinery noise can cause permanent hearing damage.

5. **WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.

6. **NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Be mentally alert at all times when running machinery.

7. **ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY.** Make sure operation instructions are safe and clearly understood.

8. **KEEP CHILDREN AND VISITORS AWAY.** Keep all children and visitors a safe distance from the work area.

9. **MAKE WORKSHOP CHILD PROOF.** Use padlocks, master switches, and remove start switch keys.

10. **NEVER LEAVE WHEN MACHINE IS RUNNING.** Turn power off and allow all moving parts to come to a complete stop before leaving machine unattended.

11. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.

12. **KEEP WORK AREA CLEAN AND WELL LIT**. Clutter and dark shadows may cause accidents.

13. **USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE.** Undersized cords overheat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.

14. **ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY**. Make sure switch is in OFF position before reconnecting.

15. **MAINTAIN MACHINERY WITH CARE**. Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

16. **MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.**

17. **REMOVE ADJUSTING KEYS AND WRENCHES**. Make a habit of checking for keys and adjusting wrenches before turning machinery ***ON***.

18. **CHECK FOR DAMAGED PARTS BEFORE USING MACHINERY.** Check for binding and alignment of parts, broken parts, part mounting, loose bolts, and any other conditions that may affect machine operation. Repair or replace damaged parts.

19. **USE RECOMMENDED ACCESSORIES**. Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.

20. **DO NOT FORCE MACHINERY**. Work at the speed for which the machine or accessory was designed.

21. **SECURE WORKPIECE**. Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.

22. **DO NOT OVERREACH**. Keep proper footing and balance at all times.

23. **MANY MACHINES WILL EJECT THE WORKPIECE TOWARD THE OPERATOR**. Know and avoid conditions that cause the workpiece to "kickback."

24. **ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.**

25. **BE AWARE THAT CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Make sure you know the hazards associated with the type of dust you will be exposed to and always wear a respirator approved for that type of dust.

Additional Safety for Rip Saws

⚠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!

⚠CAUTION

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

1. **BLADE GUARD.** Always keep blade access door closed and the blade guard in place during cutting operation. Make sure the anti-kickback fingers are in good operating condition.

2. **KICKBACK.** Be familiar with kickback. Kickback happens when the workpiece is thrown back towards the operator at a high rate of speed. *Until you have a clear understanding of kickback and how it occurs, DO NOT operate this saw.*

3. **WORKPIECE CONTROL.** Make sure the workpiece is placed in a stable position on the table, and is supported by the rip fence during cutting operations. DO NOT attempt to perform a cutting operation free-hand or without using the conveyor track.

4. **SAFETY ACCESSORIES.** Use safety glasses, a respirator, and hearing protection during all cutting operations.

5. **OPERATOR POSITION.** Never stand or have any part of your body directly in-line with the cutting path of the saw blade.

6. **COMFORTABLE POSITION.** Avoid awkward operations and hand positions where a sudden slip could cause your hand to move into the blade.

7. **STALLED BLADE.** Always disconnect the machine from power before attempting to "free" a stalled saw blade or workpiece.

8. **SAW AND ROLLER HEIGHT.** Make sure the saw blade height is correctly adjusted to the conveyor track. Always use the pressure rollers adjusted to the correct height during the cutting operation.

9. **WORKPIECE SUPPORT.** Always provide adequate support to the front, rear, and side of the saw table for wide or long workpieces.

10. **DAMAGED SAW BLADE.** Never use a saw blade that has been dropped or otherwise damaged. Always keep the saw blade sharp.

11. **EXPERIENCING DIFFICULTIES.** If at any time you are experiencing difficulties performing the intended operation, stop using the machine! Contact Tech Support at (360) 734-3482.

ELECTRICAL

⚠WARNING

The machine must be properly set up before it is safe to operate. DO NOT connect this machine to the power source until instructed to do so in the "Test Run" portion of this manual.

220V/440V 3-Phase Operation

The Model W1803 is prewired for 220V 3-phase operation, but may be rewired for 440V 3-phase operation (see **Rewiring to 440V** on **Page 10**).

This machine must be hardwired to a locking shutoff switch by a qualified electrician. Hardwiring involves a permanent installation with conduit runs that can only be accomplished safely by a qualified electrician. As always, observe all applicable electrical codes when connecting this machine to power.

This machine must be grounded! Verify the ground before connecting this machine to the power source.

Phase Converter

The power from the manufactured power leg (wild wire) of a phase converter fluctuates, which may damage electrical components if connected to the wrong incoming power terminal. If you must use a phase converter for 3-phase power, only connect the "wild wire" to the **S** terminal on the front electrical panel of the machine.

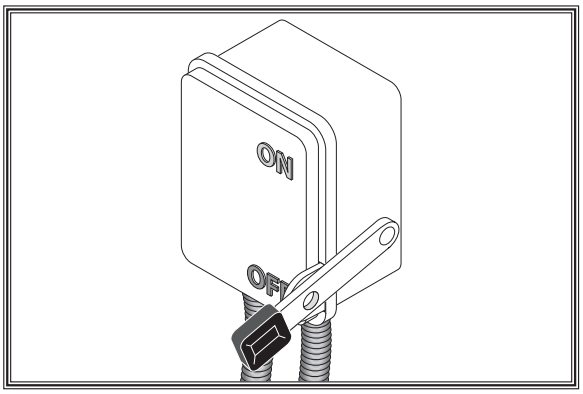


Figure 5. Locking shutoff switch.

⚠WARNING

Attempting to connect this machine to the power source without a qualified electrician greatly increases the risk of electrocution, fire, or machine damage.

ELECTRICAL

Electrical Specifications

Voltage	Amp Draw	Min. Circuit Size	Connection	Cord	Extension Cord
220V	43	60A	Hardwire	Conduit Setup	N/A (Hardwire Only)
440V	21.5	30A	Hardwire	Conduit Setup	N/A (Hardwire Only)

Rewiring to 440V

Rewiring your machine to 440V requires three steps: 1) rewire the transformer, 2) change the overload relays, and 3) rewire the motor.

Purchase the Model W1803 440V Conversion Kit (Part Number X1803822) from your authorized Shop Fox dealer. This kit contains the necessary overload relays to convert your rip saw to 440V operation.

The rewiring procedure must be done by a qualified electrician before the rip saw is connected to the power source. Refer to **Wiring Diagrams** starting on **Page 35**, and the inside of the motor junction box covers for additional details.

To rewire the Model W1803 for 440V operation, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Open the electrical access door and identify the transformer (**Figure 6**) and the overload relays (**Figure 7**).

3. Remove the wire labeled "R" from the 220V terminal of the transformer and connect it to the 440V terminal.

4. Replace the RH10E/7C overload relay with the RH10E/4C relay from the 440V Conversion Kit, and set the amperage dial to 4.

5. Replace the RH18/20 overload relay with the RH18/15 relay from the 440V Conversion Kit, and set the amperage dial to 12.

6. Refer to the wiring diagrams on the inside of the motor wiring junction box for the saw and conveyor motors, and rewire these motors for 440V operation.

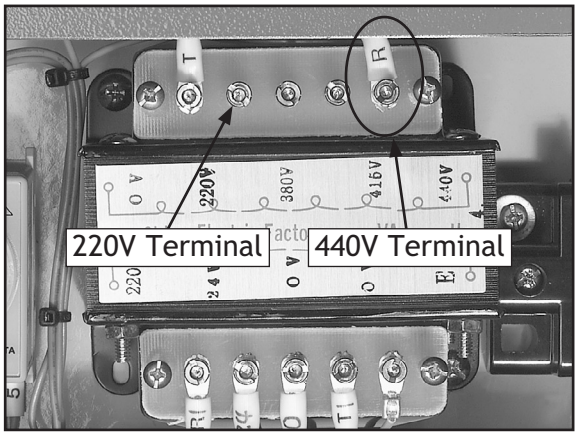


Figure 6. The "R" wire is connected to the 440V terminal of the transformer for 440V operation.

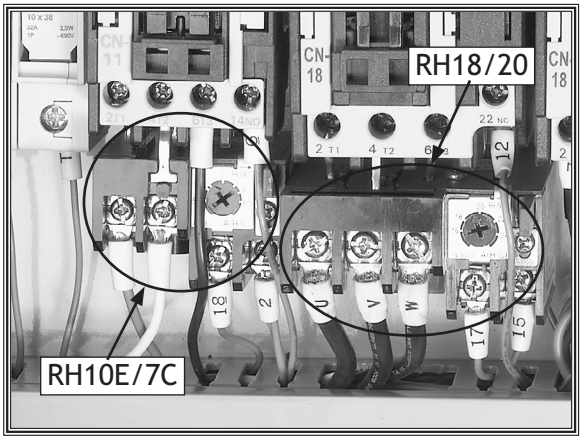


Figure 7. Overload relays.

SETUP

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 description of the main components shipped with the Model W1803. Lay the components out to inventory them.

Note: *If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for safer shipping.*

Inventory (Figures 8-10)	Qty
A. Rip Saw (not shown)	1
B. Tool Box	1
C. Cast Iron Machine Feet	4
D. Combo Open End Wrenches 8/10, 10/12, 11/13, 14/17, 17/19, 22/24mm	1 Ea
E. Hex Wrench Set (1.5–10mm)	1
F. T-Handle Wrench 19mm	1
G. Grease Gun	1
H. Arbor Wrench 45mm	1
I. Auxiliary Roller Brackets, Left	2
J. Auxiliary Roller Brackets, Right	2
K. Auxiliary Rollers	4
L. Auxiliary Roller Hardware Bag	1
M. Cap Screws M6-1 x 16	8
N. Lock Washers 6mm	8
O. Set Screws M6-1 x 25	4
P. Hex Nuts M6-1	4
Q. Flat Washers 6mm	4

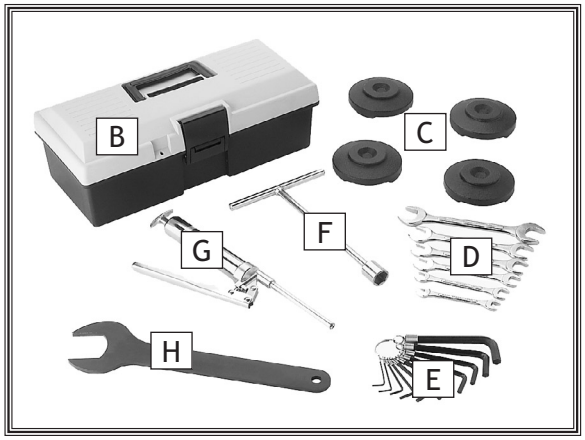


Figure 8. Tool box contents.

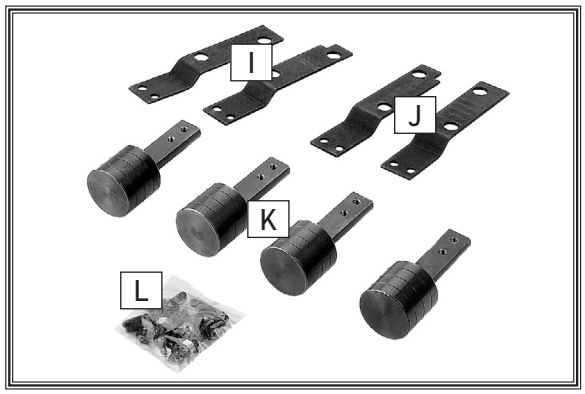


Figure 9. Auxiliary roller box contents.

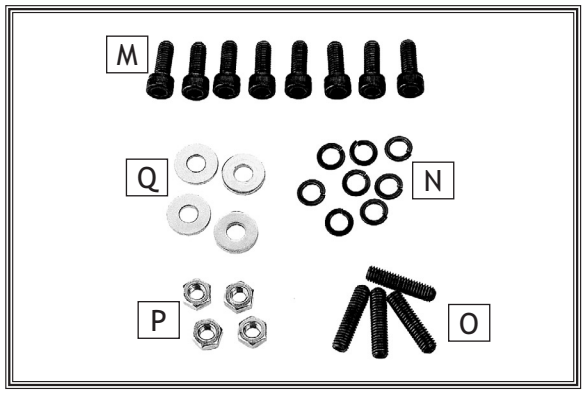
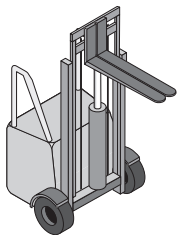


Figure 10. Hardware bag contents.

Machine Placement

- **Floor Load:** This machine distributes a heavy load in a small footprint. Some floors may require additional bracing to support both machine and operator.
- **Working Clearances:** Consider existing and anticipated needs, size of material to be processed through the machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your rip saw.
- **Lighting:** Lighting should be bright enough to eliminate shadow and prevent eye strain.
- **Electrical:** Electrical circuits must be dedicated or large enough to handle amperage requirements. Follow local electrical codes for proper installation of new lighting, outlets, or circuits.



⚠WARNING

USE helpers and power lifting equipment to lift this rip saw. Otherwise, serious personal injury may occur.

⚠CAUTION

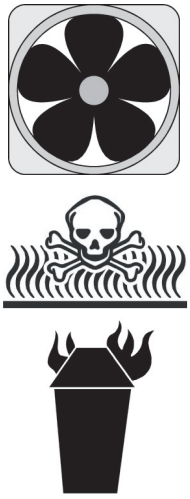
MAKE your shop "child safe." Ensure that your workplace is inaccessible to children by closing and locking all entrances when you are away. NEVER allow untrained visitors in your shop when assembling, adjusting or operating equipment.

Cleaning Machine

The table and other unpainted parts of your machine type are coated with a waxy grease that protects them from corrosion during shipment. Clean this grease off with a solvent cleaner or citrus-based degreaser. DO NOT use chlorine-based solvents such as brake parts cleaner or acetone—if you happen to splash some onto a painted surface, you will ruin the finish.

⚠WARNING

NEVER clean with gasoline or other petroleum-based solvents. Most have low flash points, which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored!



⚠CAUTION

ALWAYS work in well-ventilated areas far from possible ignition sources when using solvents to clean machinery. Many solvents are toxic when inhaled or ingested. Use care when disposing of waste rags and towels to be sure they DO NOT create fire or environmental hazards.

Lifting & Moving

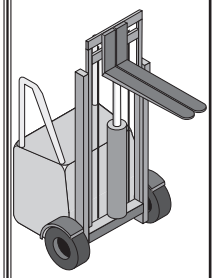
To install the cast iron machine feet, do these steps:

1. With the help of assistants and power equipment, lift the saw from the crate pallet and move it to a permanent position.

2. Position the cast iron machine feet under each of the four leveling bolts, then carefully lower the saw onto the feet.

3. Loosen the jam nuts (see **Figure 11**), and adjust the leveling bolts until the saw table is level front-to-front and side-to-side.

4. Re-tighten the jam nuts to secure the settings.



⚠WARNING

The Model W1803 is an extremely heavy machine. Serious personal injury may occur if safe moving methods are not followed. To be safe, you will need assistance and power equipment when moving the shipping crate and removing the machine from the crate.

Dust Collection

Recommended CFM at Dust Port: ..... 400 CFM

Do not confuse this CFM recommendation with the rating of the dust collector. To determine the CFM at the dust port, you must take into account many variables, including the CFM rating of the dust collector, the length of hose between the dust collector and the machine, the amount of branches or Y's, and the amount of other open lines throughout the system. Explaining this calculation is beyond the scope of this manual. If you are unsure of your system, consult an expert or purchase a good dust collection "how-to" book.

⚠CAUTION

DO NOT operate this machine without an adequate dust collection system. This machine creates substantial amounts of wood dust while operating. Failure to use a dust collection system can result in short and long-term respiratory illness.

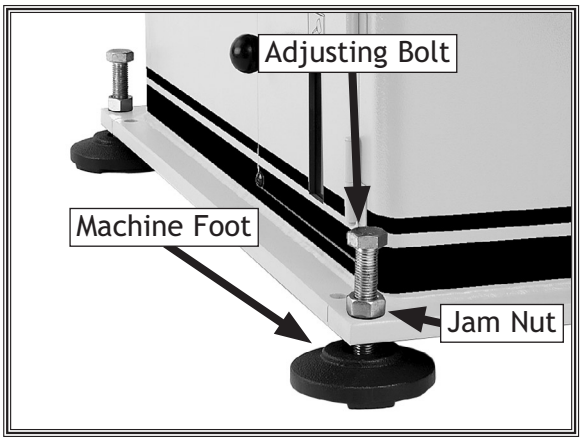


Figure 11. Cast iron machine feet installed.

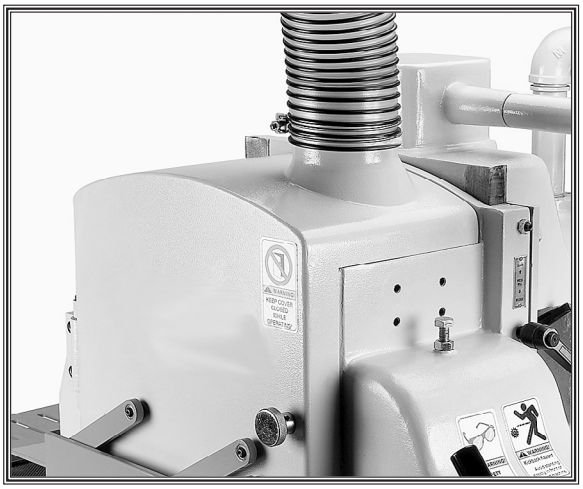


Figure 12. Dust port connected to dust collection system.

Removing the Blade

For safety reasons, the saw blade must be removed until you have confirmed that the motor wiring is correct.

To remove the blade, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Loosen the blade elevation lock, and use the blade elevation handwheel to raise the saw blade approximately 1/4" above the conveyor track.

3. Open the blade access door.

4. Position the arbor wrench behind the blade to hold the arbor stationary, then use the T-handle wrench to remove the arbor bolt and flange (see **Figure 13**).

5. Carefully slide the blade off the arbor and remove it from the machine.

Note: *DO NOT re-install the arbor bolt and flange at this time.*

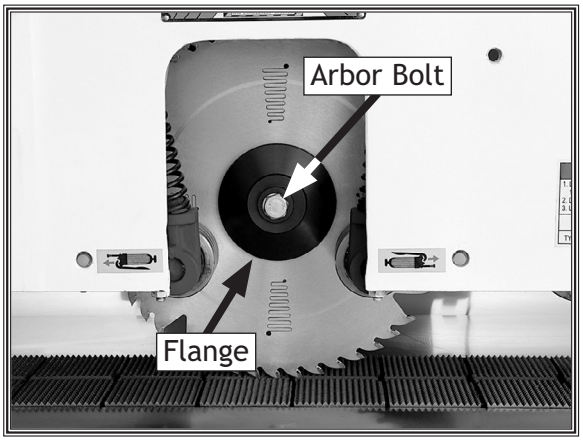


Figure 13. Arbor bolt and flange.

WARNING

Before starting the saw, make sure you have removed the saw blade, read and understood the safety warning in the beginning of this manual, have read through the rest of the manual, and are familiar with the various functions and safety issues associated with this machine. Failure to follow this warning could result in death or serious personal injury.

CAUTION

The saw blade is very sharp and can cause personal injury if mishandled. Always wear thick leather gloves when handling the saw blade.

Test Run

Once the assembly is complete, test run your machine to make sure it runs properly and is ready for regular operation.

The test run consists of verifying the following: 1) The motor powers up and runs correctly, 2) the stop button safety feature works correctly, and 3) the motor turns the correct direction (machine is not wired out of phase).

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review **Troubleshooting** on **Page 38**.

If you still cannot remedy a problem, contact our Tech Support at (360) 734-3482 for assistance.

Continued on next page

To test run the machine, do these steps:

1. Make sure you understand the safety instructions at the beginning of the manual, and verify that the machine is setup properly.

2. Ensure all tools and objects used during setup are cleared away from the machine.

3. Make sure the saw blade, arbor nut, and arbor flange have been removed (see **Removing the Blade** on **Page 14** for detailed instructions).

4. Make sure the lubricant reservoir is full (see **Lubricant System** on **Page 26** for further information).

5. Put on safety glasses, respirator, and ear protection; and make sure any bystanders are safely out of the way.

6. Connect the machine to the power source.

7. Push the *emergency stop* button in, then twist it clockwise so it pops out. When the button pops out, the button is reset and ready for operation (see **Figure 14**).

8. Push the *saw motor start* button to verify the machine operates correctly.

   — When operating correctly, the machine runs smoothly with little or no vibration or rubbing noises.

   — Investigate and correct strange or unusual noises or vibrations before operating the machine further. Always stop the machine and disconnect it from power before investigating or correcting potential problems.

Continued on next page

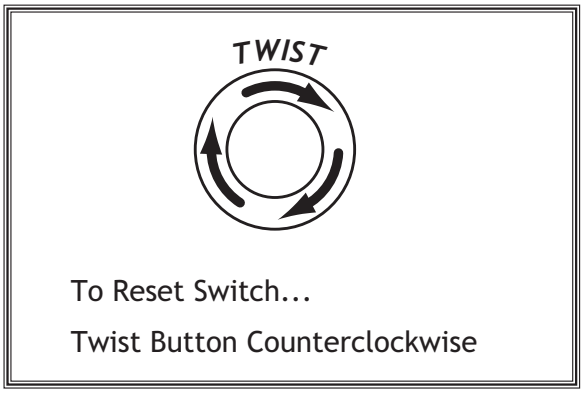


Figure 14. Resetting the emergency stop button.

9. Press the *saw motor stop button* to turn the saw motor ***OFF***, and watch the arbor as it slows down—the arbor should spin counterclockwise (see **Figure 15**).

— If the arbor spins *counterclockwise*, it is rotating in the correct direction. Skip ahead to **Step 10**.

— If the arbor spins *clockwise*, press the *emergency stop button* and disconnect the saw from power. This condition will cause serious personal injury and damage to the machine and Reverse the **R** and **T** power wire connections on the electrical panel. Start the **Test Run** again, beginning at **Step 1**.

10. Press the *conveyor start* button—the conveyor track should start moving forward or away from the operator.

Note: *There is an automatic safety time delay that prevents the conveyor track from starting up until five seconds after the main motor has started.*

11. Depress the *emergency stop* button to turn the power ***OFF*** to both motors.

12. WITHOUT resetting the *emergency stop* button, press the *saw motor start* button. The machine should not start.

— If the machine does not start, the *emergency stop* button safety feature is working correctly.

— If the machine does start (with the *emergency stop* button pushed in), immediately disconnect power to the machine. The *emergency stop* button safety feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.

13. Press the *emergency stop* button to turn the power to the saw ***OFF***, then DISCONNECT THE SAW FROM POWER.

14. Re-install the saw blade by reversing the steps in the **Remove the Blade** subsection on **Page 14**, and perform the **Blade Height Adjustment** procedures on **Page 17**.

⚠DANGER

DO NOT turn the conveyor *ON* if the arbor rotates clockwise. The power wires coming into the machine are reversed and the motors are rotating in the wrong direction. Starting the conveyor with this condition WILL cause serious personal injury to the operator and damage the machine.

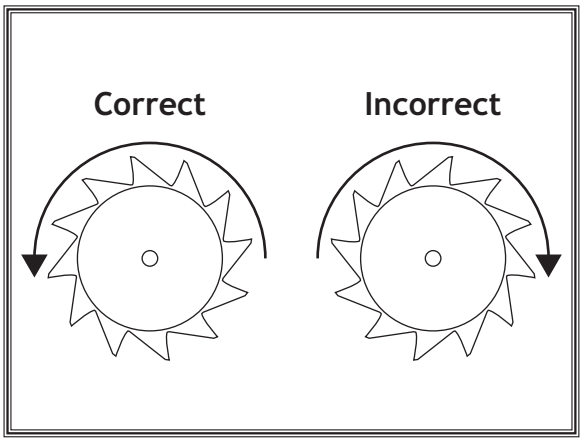


Figure 15. Arbor and blade should rotate counterclockwise if electrical wiring is correct.

SETUP

Blade Height Adjustment

To completely cut through the workpiece, the saw blade must be positioned just below the surface of the conveyor track without coming in contact with the track.

Note: *Once the blade height is correctly set, you do NOT need to adjust it again until the next time the blade height is changed for service or maintenance.*

To adjust the saw blade to a correct height, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Open the blade access door, and loosen the blade elevation lock.

3. Rotate the saw blade so that a tooth is at bottom dead center and pointing to the conveyor track.

4. Use the blade elevation handwheel to adjust the saw blade so that the tooth is just below the surface of the conveyor track, but not making contact with the orange insert in the middle of the track (see **Figure 16**).

   Note: *Rock the blade back and forth to ensure it is not making contact with the track.*

5. Re-tighten the blade elevation lock, then re-check the blade height for correctness.

6. Close and secure the blade access door.

NOTICE

Always make sure the blade height is correct before starting the cutting operation. If the blade height is not correct, severe damage to the saw can result.

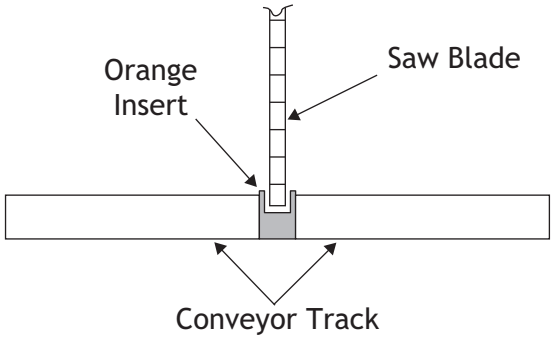


Figure 16. Illustration of correct saw blade height from conveyor track.

Laser Guide (Optional)

The Model D3698 Laser Guide is optional and is not included with the Model W1803.

The following is a description of the components shipped with the Model D3698. Lay the components out to inventory them.

Inventory	Qty
• Steel Arm	1
• Laser Bracket	1
• Laser Clamp	1
• Laser	1
• Power Box	1
• Cap Screws M8-1.25 x 25	4
• Flat Washers 8mm	4
• Lock Washers 8mm	4
• Cap Screws M6-1 x 16	2
• Flat Washers 6mm	2
• Cap Screws M6-1 x 35	2
• Phillips Head Screws M5-.8 x 8	2

To install the Model D3698 laser guide onto the Model W1803 rip saw, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Drill and tap four holes into the front of the headstock to accept M8-1.25 threads (see **Figure 17**).

3. Secure the steel arm to the headstock in the location referenced in **Figure 18**, with the (4) M8-1.25 x 25 cap screws, flat washers, and lock washers.

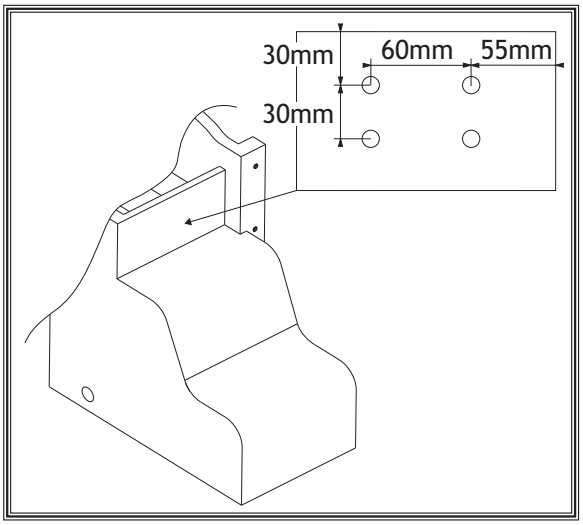


Figure 17. Location and hole pattern for laser guide arm attachment.

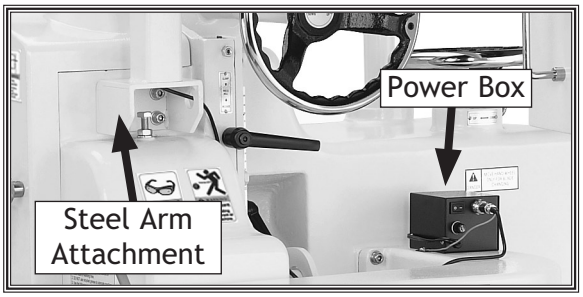


Figure 18. Location of steel arm attachment and power box.

4. Mount the laser bracket to the top of the steel arm with the (2) M6-1 x 16 cap screws and flat washers (see **Figure 19**).

5. Place the laser clamp around the laser and secure the assembly to the laser bracket with the (2) M6-1 x 35 cap screws.

6. Attach the black power box to the rip saw with the (2) M5-.8 x 8 Phillips head screws.

   Note: *Make sure the loose end of the green ground wire is secured between the head of the Phillips screw and the power box.*

7. Route the power wires from the power box through the side of the saw base and into the electrical panel compartment.

8. Connect the R1 and T1 laser power wires to their respective R1 and T1 terminals on the electrical panel (see **Figure 20**).

9. Feed the power cable from the laser through the access holes of the steel arm, and plug it into the power box.

10. Connect the saw to power and rip cut a scrap piece of stock (refer to **Rip Cutting** on **Page 22** for detailed instructions).

11. Turn the saw ***OFF***, and align the cut stock firmly against the rip fence, and adjust the laser beam along the freshly cut edge.

⚠WARNING

To prevent damage to eyes, DO NOT look directly into the laser beam.

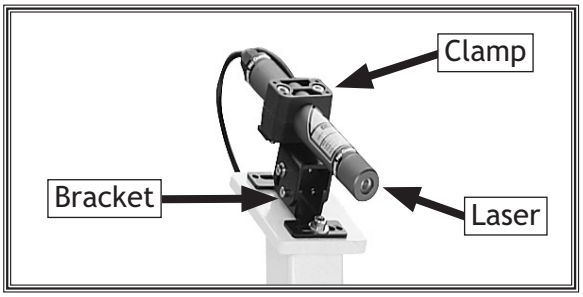


Figure 19. Laser guide attachment to the top of the steel arm.

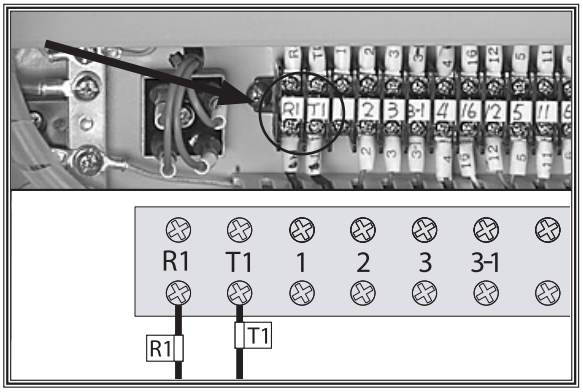


Figure 20. Laser electrical connection.

OPERATIONS

General

This machine 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 *rip saw* operator before performing any unfamiliar operations. **Above all, your safety should come first!**

WARNING

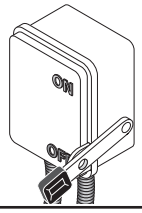
READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. DO NOT risk your safety by not reading!

Safe Operation

Follow these safety tips EVERY time you operate this saw:

- Stand to one side of the workpiece as you feed it onto the conveyor track and into the blade.
- Provide adequate and stable support for wide and long workpieces.
- Feed the workpiece into the conveyor and blade from the front of the saw—NEVER attempt to pull the workpiece through the cutting operation from the rear of the machine.
- Turn the saw ***OFF*** and disconnect the machine from power before making any adjustments.
- Make sure the blade guard and anti-kickback fingers are working correctly, and that they rise and fall as the workpiece enters and leaves the cutting path.
- Carefully plan each cutting operation before you turn the power ***ON***.

WARNING



DO NOT investigate problems or adjust the machine while it is running. Wait until the machine is turned *OFF*, unplugged and all working parts have come to a complete stop before proceeding!

WARNING

Always wear safety glasses when operating this machine. Failure to comply may result in serious personal injury.

Adjusting Conveyor Speed

NOTICE

The conveyor track must be turned *ON* and moving when adjusting the speed.

The correct conveyor track speed differs with each cutting operation. Generally, start with the slowest speed and work up. Use scrap wood similar to the actual workpiece and experiment to find the correct speed for your cutting operation.

Turn the variable track speed knob *counterclockwise* to increase the conveyor track speed, and *clockwise* to decrease the speed (see **Figure 21**).

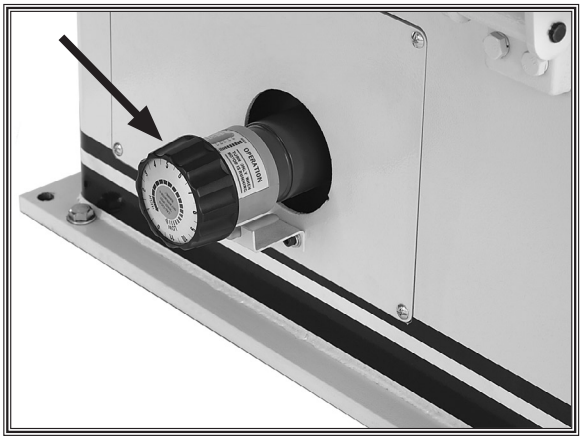


Figure 21. Variable conveyor track speed control.

Auxiliary Roller Setup

The Model W1803 includes an auxiliary roller assembly that must be installed and used when cutting workpieces that are shorter than 8 1/2".

Note: *The auxiliary roller assemblies can be left on the machine when cutting longer boards; however, the maximum thickness cutting capacity of the saw is reduced to 2 1/4".*

To install the auxiliary roller assemblies, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Remove the saw blade (refer to **Removing the Blade** on **Page 14** for detailed instructions).

3. Use the 13mm wrench to remove the four hex nuts from the set screws on the underside of the head casting (see **Figure 22**)—two on both sides of the headstock.

4. Use the 3mm hex wrench to replace the four M6-1 X 10 set screws (both sides of the headstock underside) with the four M6-1 x 25 set screws (see **Figure 23**.

   Note: *The heads of the M6-1 x 10 set screws will be even with or recessed into the headstock, and the heads of the M6-1 x 25 will protrude out when installed.*

Figure 22. Location of hex nuts to remove.

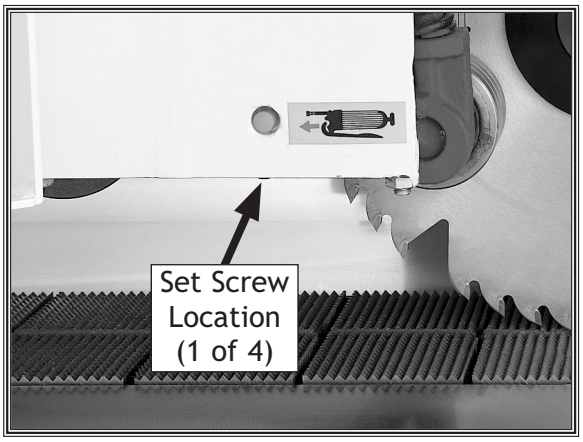


Figure 23. Location of set screws.

5. Place the four auxiliary roller brackets over the protruding set screws, and secure them with the four M6-1 hex nuts and flat washers, as well as the four hex nuts removed in **Step 1** (see **Figure 24**).

6. Using the 5mm hex wrench, secure the four auxiliary rollers to the brackets with the eight M6-1 x 16 cap screws and lock washers (see **Figure 25**).

7. Re-install the saw blade and adjust the height in relation to the conveyor track (refer to **Blade Height Adjustment** on **Page 17** for detailed instructions).

⚠WARNING

Before starting the saw, make sure you have read and understood the safety warning in the beginning of this manual, have read through the rest of the manual, and are familiar with the various functions and safety issues associated with this machine. Failure to follow this warning could result in death or serious personal injury.

Rip Cutting

To make a rip cut, do these steps:

1. Make sure you understand the safety instructions at the beginning of the manual, and verify that the machine is setup properly.

2. Ensure all tools and objects used during setup are cleared away from the machine.

3. Put on safety glasses, respirator, and ear protection, and make sure any bystanders are safely out of the way.

4. Check your workpiece for knots, splits, metal or rock debris, or any other obstruction that would cause the saw to bind on the workpiece and kick it back towards the operator.

5. Prepare the workpiece for the rip cutting operation by planing the top and bottom, and jointing one edge.

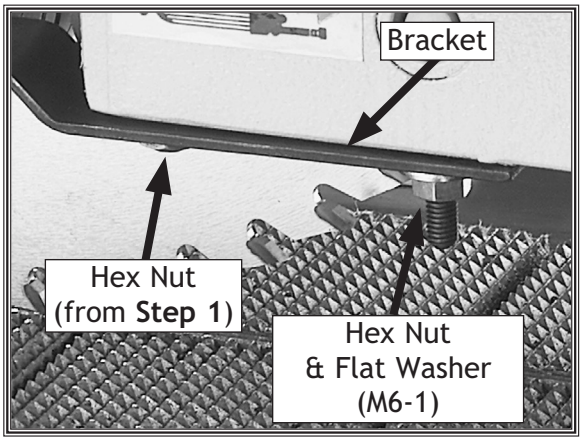


Figure 24. Auxiliary pressure roller bracket.

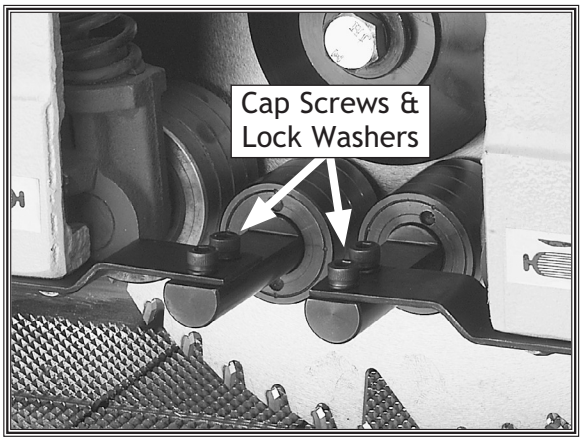


Figure 25. Auxiliary roller mounting configuration.

6. DISCONNECT THE SAW FROM POWER!

7. Make sure the blade height is correct (refer to **Blade Height Adjustment** on **Page 17** for detailed instructions).

8. Make sure all pressure rollers are aligned parallel with the saw table (refer to **Pressure Roller Adjustment** on **Page 29** for detailed instructions).

9. Loosen the headstock elevation lock, and use the headstock elevation handwheel to bring the pressure roller height approximately 1/8" below the height of the workpiece.

⚠WARNING

DO NOT adjust pressure roller height higher than 2 1/4" from the table when the auxiliary roller assemblies are installed. Doing so will cause the blade arbor flange to make contact with auxiliary rollers. If the saw is turned *ON* in this condition, serious property damage or personal injury could result.

10. Make sure the oil reservoir is full (see **Lubricant System** on **Page 26** for further information).

11. Set the fence to the desired width of cut and lock it in place.

12. Make sure the conveyor track and cutting path are clear of any tools, debris, or any other object.

13. Connect the saw to power and press the *saw motor start* button—the saw blade should rotate freely with little noise or vibration.

14. Wait until the blade has reached full speed, then press the *conveyor motor start* button. Adjust the conveyor speed if necessary (see **Adjusting Conveyor Speed** on **Page 21** for detailed instructions).

15. Step to one side of the cutting path, and place the workpiece firmly against the fence as you feed it onto the conveyor and into the blade (see **Figure 26**).

⚠WARNING

Always stand to one side of the workpiece as you feed onto the conveyor and into the blade. Always feed the workpiece from the front of the machine. Never attempt to pull the workpiece through the cutting operation from the rear of the machine. Failure to heed these warning could result in serious personal injury.

Figure 26. Rip cutting operation.

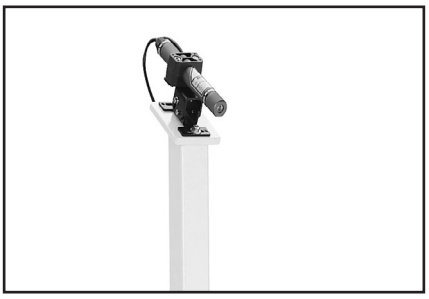
ACCESSORIES

Rip Saw Accessories

The following rip saw 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: 1-800-545-8420 or at sales@woodstockint.com.

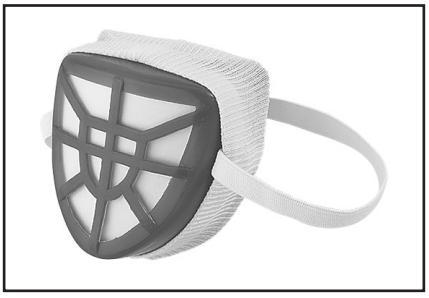
Model D2271 Shop Fox Roller Table
Use this versatile roller table wherever you need extra workpiece support. Features all-steel welded construction and measures 19" x 65" long. Comes with nine ball bearing rollers and has four independently adjustable legs for any leveling requirement. Adjustable in height from 26½" to 44".

Model D3698 Shop Fox Laser Guide with Pedestal Mount
Improve rip cutting accuracy, work more efficiently, and increase yields with this easy-to-install laser guide. This bolt-on accessory is designed to quickly integrate with Model W1803 Straight Line Rip Saw, including internal electrical connections.



Model D2675/D2676 Safety Glasses
Exceeding ANSI Z87.1–1989 standards for impact resistance, these safety glasses offer outstanding eye protection and stylish good looks. Wrap-around side shields provide additional protection and a wide field of view. Model D2676 features easily adjustable ear pieces for length and comfort.

Model D2759 Safety Filter Mask
This safety filter mask provides greater protection over paper filters with its form-fitting cloth seal. Level II filtration provides 98.6% filtration. Ideal for dusty shop and work environments. One size fits all.



MAINTENANCE

General

Regular periodic maintenance on your machine will ensure its optimum performance. Make a habit of inspecting your machine each time you use it.

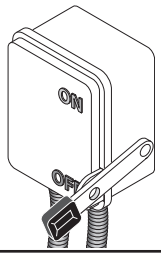
Check for the following conditions and repair as necessary before each use:
- Loose mounting bolts.
- Damaged saw blade.
- Wood debris or dust build up on conveyor track.
- Wood debris or dust build up inside of blade access compartment.
- Worn or damaged wires and electrical connections.
- Damaged or worn V-belts.
- Lubricant system reservoir.
- Any other condition that could hamper the safe operation of this machine.

Every 100 hours of operation:
- Lubricate grease fittings.
- Damaged or worn V-belts; re-tension if necessary.

After first 100 hours of operation:
- Change reducer gear box oil.

Every 2500 hours of operation:
- Change reducer gear box oil.

⚠WARNING



MAKE SURE that your machine is disconnected from power during all maintenance procedures! If this warning is ignored, serious personal injury may occur.

Cleaning

Frequently blow-off sawdust with compressed air. This is especially important for the lower conveyor track compartment and motor area. Dust build-up around the motors is a sure way to decrease their life span.

Clean resin build-up from the saw blade, table, and conveyor track with a resin dissolving cleaner. To keep the table rust-free, regularly apply a quality anti-rust lubricant.

Lubrication

Since all bearings are sealed and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them.

This machine does need lubrication at the four pivot points of the main pressure rollers after every 100 hours of operation (approximately once a month of consistent use).

Remove the plastic caps over the four grease fittings (two on either side of the headstock), and lubricate with a general purpose light grease (see **Figure 27**).

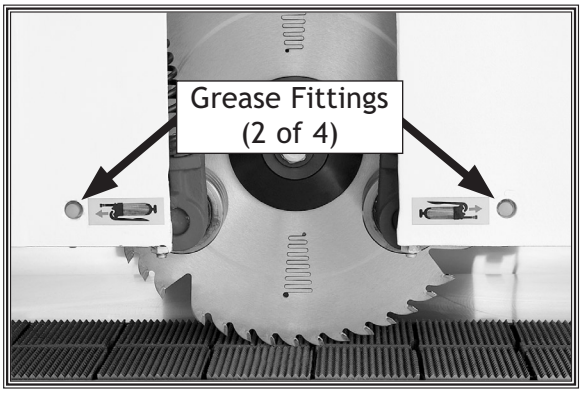


Figure 27. Grease fittings on headstock (additional two fittings on opposite side of headstock).

Reducer Gear Box

Change the reducer gear box oil after the first 100 hours of operation (approximately one month of consistent use), and every 2500 hours of operation after that. We recommend a quality 90 weight gear oil (see **Figure 28**).

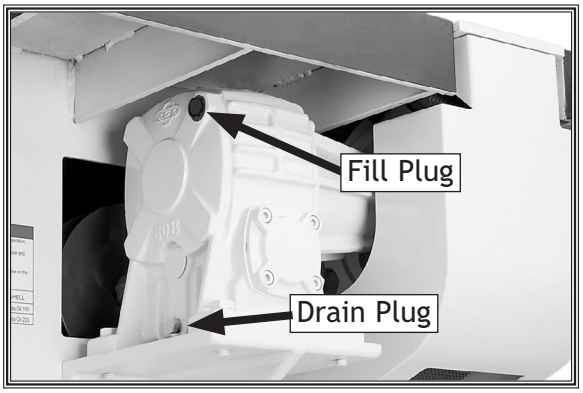


Figure 28. Location of reducer gear box fill and drain plugs.

Lubricant System

The lubricant system keeps the conveyor track lubricated and clean by using lubricated brushes on the underside of the track (see **Figure 29**). The oil is pumped to the brushes from the reservoir (**Figure 30**) through a series of tubes at a rate of 3–6 cc every five minutes.

When the oil level in the reservoir becomes low, an electrical switch is triggered that prevents the saw from being operated. If this occurs, fill the reservoir with a quality ISO-SPEC G-68 oil.

After every 100 hours of operation, empty the reservoir, clean out any sludge or debris, and refill it with clean oil.

Figure 29. Conveyor track lubrication brushes.

Figure 30. Lubricant system reservoir.

SERVICE

General

This section covers the most common service adjustments or procedures that may need to be made during the life of your machine.

If you require additional machine service not included in this section, please contact Woodstock International Technical Support at (360) 734-3482 or send e-mail to: **tech-support@shopfox.biz**.

Fence Alignment

If the fence face is not parallel to the saw blade (cut line), the resulting rip cut will yield a workpiece that is wider at one end or the other.

To adjust the rip fence parallel to the cut line, do these steps:

1. Rip cut a scrap workpiece.

2. Measure the width at each end of the workpiece that has been cut.

   — If end A (**Figure 31**) is wider than end B, then the tip of the fence needs to be adjusted to the *left* to make the fence parallel to the blade.

   — If end B (**Figure 32**) is wider than end A, then the tip of the fence needs to be adjusted to the *right* to make the fence parallel to the blade.

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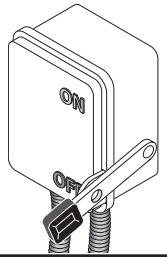
WARNING



MAKE SURE that your machine is unplugged during all service procedures! If this warning is ignored, serious personal injury may occur.

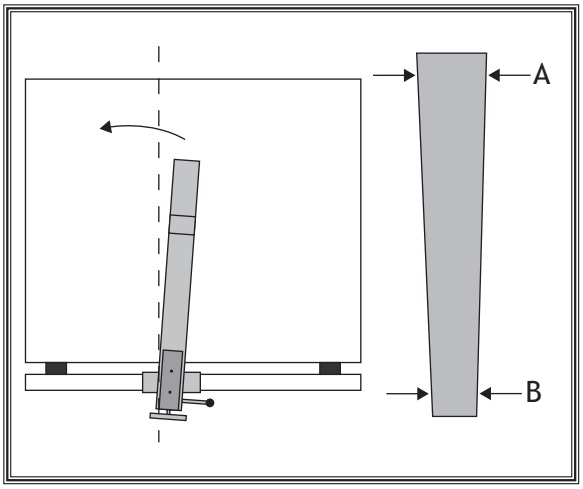


Figure 31. Adjusting fence to the left.

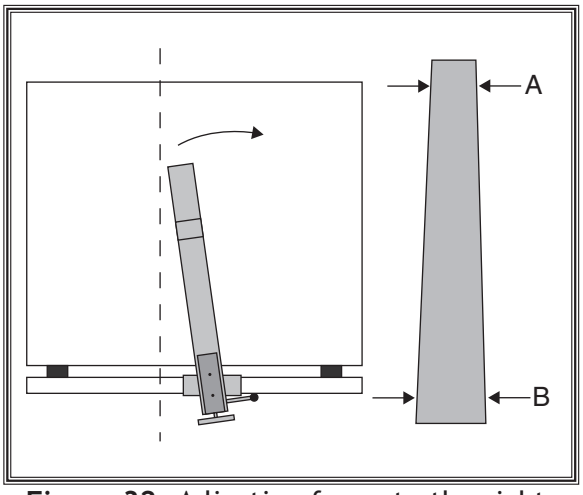


Figure 32. Adjusting fence to the right.

3. DISCONNECT THE SAW FROM POWER!

4. Loosen the two cap screws on the fence top (see **Figure 33**), and adjust the fence as necessary. Retighten the cap screws when finished.

5. Repeat **Steps 1–2** to verify that the adjustment is correct.

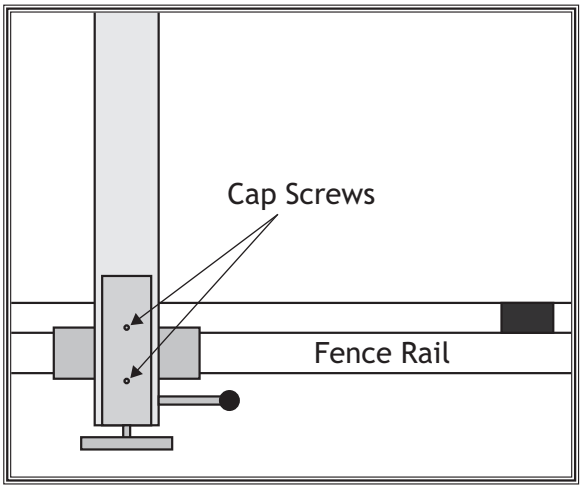


Figure 33. Location of fence cap screws.

Fence Ride Height

The height of the rip fence from the table must be enough so that the fence does not bind with or scratch the table surface.

Use the set screw shown in **Figure 34** to correctly adjust the fence ride height.

Figure 34. Fence ride height adjusting set screw.

Fence Scale Adjustment

The distance between the right edge of the blade teeth and the rip fence face should be equal to the scale reading on the fence rail.

To check/adjust the rip fence scale, do these steps:

1. Rip cut a piece of stock.

2. Measure the width of the cut piece, and place it against the rip fence face.

3. DISCONNECT THE SAW FROM POWER!

4. Keeping the workpiece against the fence, move it up against the right side of the blade.

5. If necessary, loosen the two Phillips head screws on the scale, and adjust it to the correct position (see **Figure 35**).

Figure 35. Location of screws securing the rip fence scale.

Adjusting Gibs

The headstock slides up and down on the column way with gibs that keep the movement even and smooth. Over time, the gibs wear and need adjustment.

The goal when adjusting the gibs is to remove the "play" along the column way so that the headstock moves freely without binding, but not too loose. This process may take some experience to get the correct setting. Keep in mind that the headstock holds the saw blade, which must maintain a straight and steady cutting path.

Loosen the jam nuts and adjust the set screws (**Figure 36**), to reduce the play between the headstock, gibs, and column way. Always make small adjustments to the set screws, starting with ¼ turn increments. When adjusted correctly, re-tighten the jam nuts.

Figure 36. Location of headstock gib adjusting jam nuts and set screws.

Pressure Roller Adjustment

Excluding the auxiliary pressure rollers, there are six pressure roller assemblies that can be adjusted independently:

— Two large pressure rollers, one in front of and one behind the blade.

— Four main roller assemblies, two on either side of the blade.

All of these rollers must be bottom aligned to make even contact with the workpiece at the same time to ensure that it moves safely and smoothly through the cutting path.

To check for bottom alignment of the pressure rollers, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. If the auxiliary roller assemblies are installed, remove them.

3. Cut a scrap workpiece wide enough to reach the main pressure rollers on either side of the blade, and long enough to reach both of the large rollers—one in front of and one behind the blade.

⚠WARNING

To ensure safe and smooth movement of the workpiece through the cutting path, all pressure rollers MUST apply downward force evenly on the workpiece. Failure to heed this warning could cause a kickback hazard and serious personal injury.

Continued on next page

4. Plane the workpiece so that its height is consistent front-to-back and side-to-side.

5. Loosen the blade elevation lock, and use the blade elevation handwheel to raise the bottom edge of the saw blade above the bottom line of the pressure rollers. Re-tighten the blade elevation lock.

6. Raise the headstock and position the workpiece underneath all of the rollers.

7. Slowly lower the headstock so that one or more of the pressure rollers make contact with the workpiece top.

   — If *ALL* of the pressure rollers make contact with the workpiece at the same time, this procedure is finished.

   Note: *If no further adjustment needs to be made to the pressure rollers, make sure to re-adjust the blade height before beginning cutting operations (refer to **Blade Height Adjustment** on **Page 17**).*

   — If *ALL* of the pressure rollers do NOT make contact with the workpiece at the same time, they need to be adjusted. Keep the workpiece in position under the pressure rollers, and continue with following procedure.

To adjust the pressure rollers, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Adjust each pressure roller assembly by loosening the jam nut and turning the set screw or hex bolt. See **Figures 37–38** for locations of these fasteners.

3. Re-check the bottom alignment of all pressure rollers, as detailed in the previous procedure, and repeat **Step 2** of this procedure until the alignment is correct.

4. Re-tighten all jam nuts.

   Note: *When the pressure rollers are correctly bottom aligned, make sure to re-adjust the blade height (refer to **Blade Height Adjustment** on **Page 17**).*

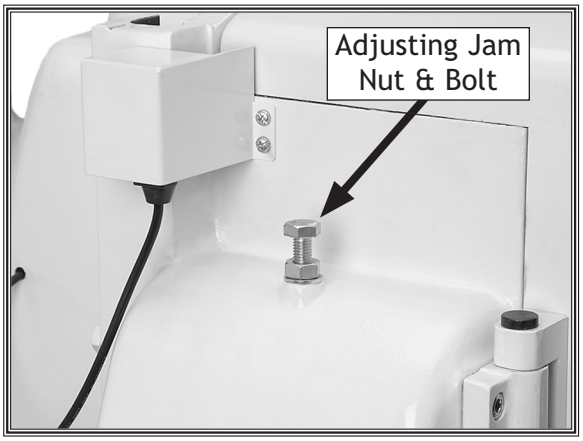


Figure 37. Large pressure roller adjusting jam nut and hex bolt (rear adjusting fasteners shown).

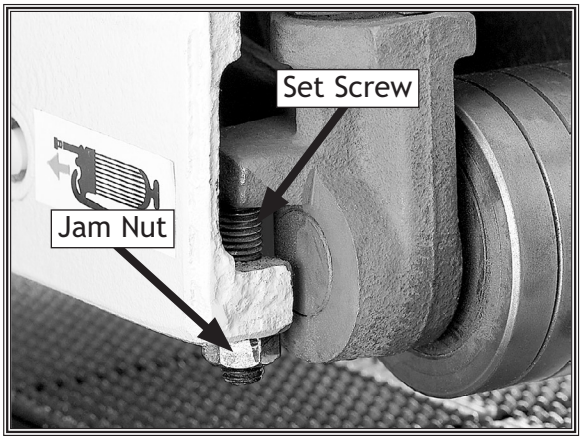


Figure 38. Main pressure roller assembly adjusting jam nut and set screw (two on either side of the blade).

NOTICE

Always make sure the blade height is correct before starting the cutting operation. If the blade height is not correct, severe damage to the saw can result.

SERVICE

Adjust/Replace Drive Belts

To adjust the main motor V-belt tension, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Remove the right side motor access panel.

3. Loosen the main motor jam nut (**Figure 39**), rotate the turnbuckle to adjust V-belt tension, and re-tighten the jam nut.

   Note: *Adjust the V-belts so that there is about 1/4" deflection between the pulleys when a moderate pressure is applied (see* ***Figure*** **40***).*

4. Replace the motor access panel.

To replace the main motor V-belts, do these steps:

1. DISCONNECT THE SAW FROM POWER!

2. Follow **Steps 1-3** above, but adjust the turnbuckle so that you can roll the V-belts off the pulleys.

3. Replace all four V-belts as a set, adjust them for proper tension, and re-tighten the jam nut.

   Note: *To ensure even transfer of power to the saw blade from the motor, always replace all four V-belts as a set.*

4. Replace the motor access panel.

Continued on next page

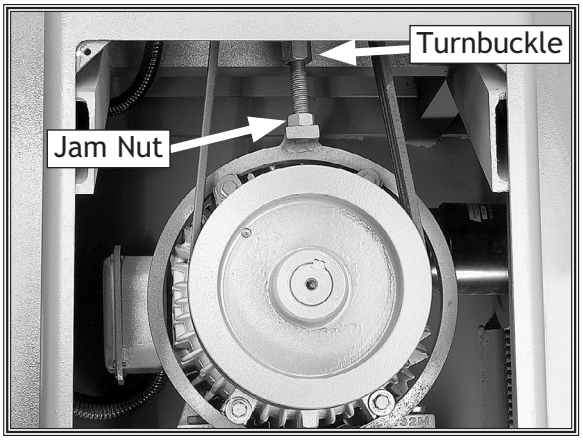


Figure 39. Location of main motor V-belt adjusting fasteners.

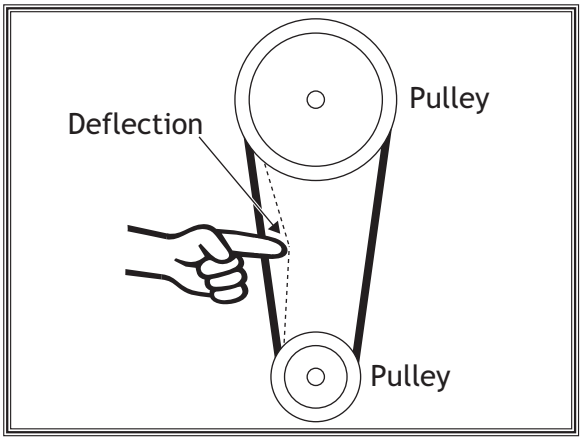


Figure 40. Checking V-belt tension.

To adjust the feed motor belt tension, do these steps:

1. DISCONNECT THE SAW FROM POWER!
2. Remove the right side motor access panel.
3. Loosen the jam nut (**Figure 41**), rotate the adjusting bolt to adjust belt tension, and re-tighten the jam nut.

   Note: *Adjust the belt so that there is about 1/4" deflection between the pulleys when a moderate pressure is applied (see* ***Figure*** **40***).*
4. Replace the motor access panel.

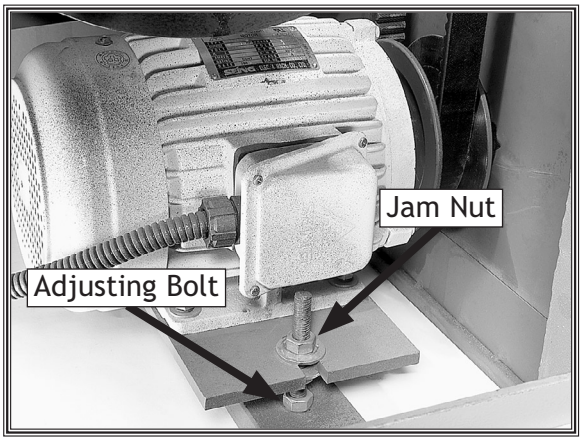


Figure 41. Location of feed motor adjusting fasteners.

To replace the feed motor belt, do these steps:

1. DISCONNECT THE SAW FROM POWER!
2. Remove the right side motor access panel.
3. Remove the rear feed motor access panel (see **Figure 42**).
4. Loosen the jam nut (**Figure 41**), and rotate the adjusting bolt enough so that you can roll the belt off the pulleys.
5. Slip the belt over the track speed control and remove it through the rear access.
6. Install the new belt by reversing the process in **Step 4-5**.
7. Re-tension the belt as described above, and replace both access panels.

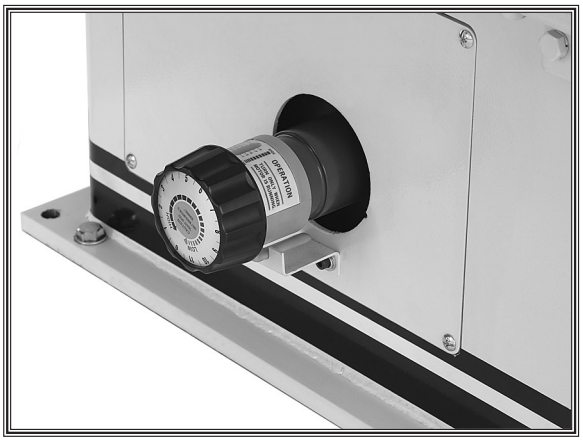


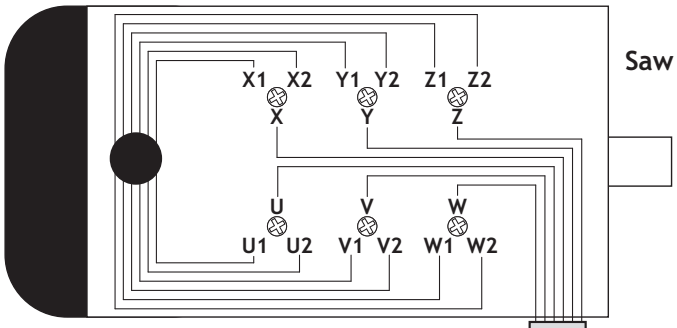
Figure 42. Location of rear feed motor access panel.

Replacing the Blade

Refer to **Removing the Blade** on **Page 14** for detailed instructions on removing the blade. Re-install the saw blade by reversing these steps.

Note: *Make sure to correctly re-adjust the blade height (refer to* ***Blade Height Adjustment*** *on* ***Page 17****).*

Motor 220V/440V, 3-Phase Wiring Diagram



Saw Motor

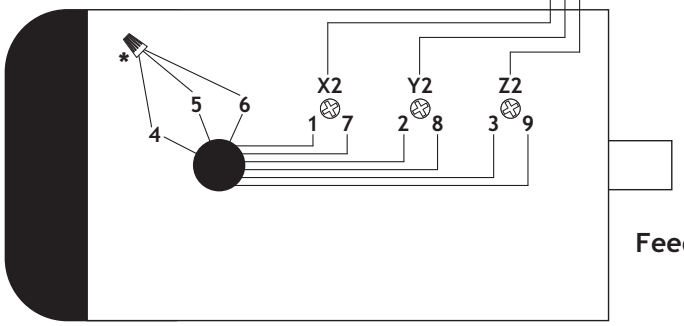
DANGER

Disconnect power before performing any electrical service. Electricity presents serious shock hazards that will result in severe personal injury and even death!

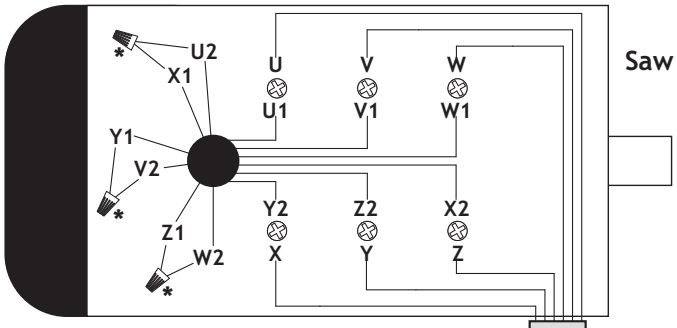
220V

* Insulate with electrical tape

To Electrical Box



Feed Motor



Saw Motor

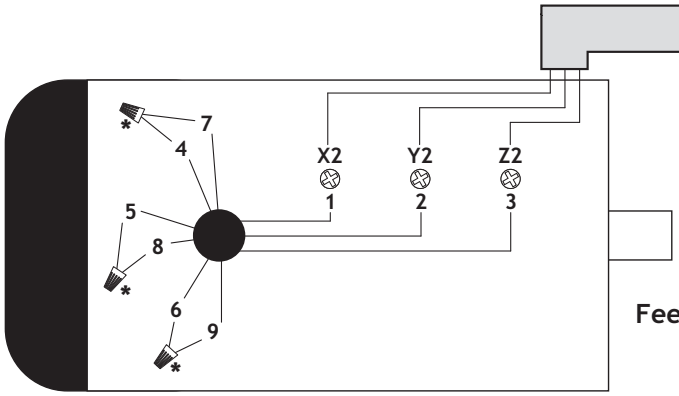
NOTICE

These motor wiring diagrams are current at the time of printing; however, always use the diagram on the inside of the junction box cover when rewiring your motor.

440V

* Insulate with electrical tape

To Electrical Box



Feed Motor

SERVICE

Electrical Components

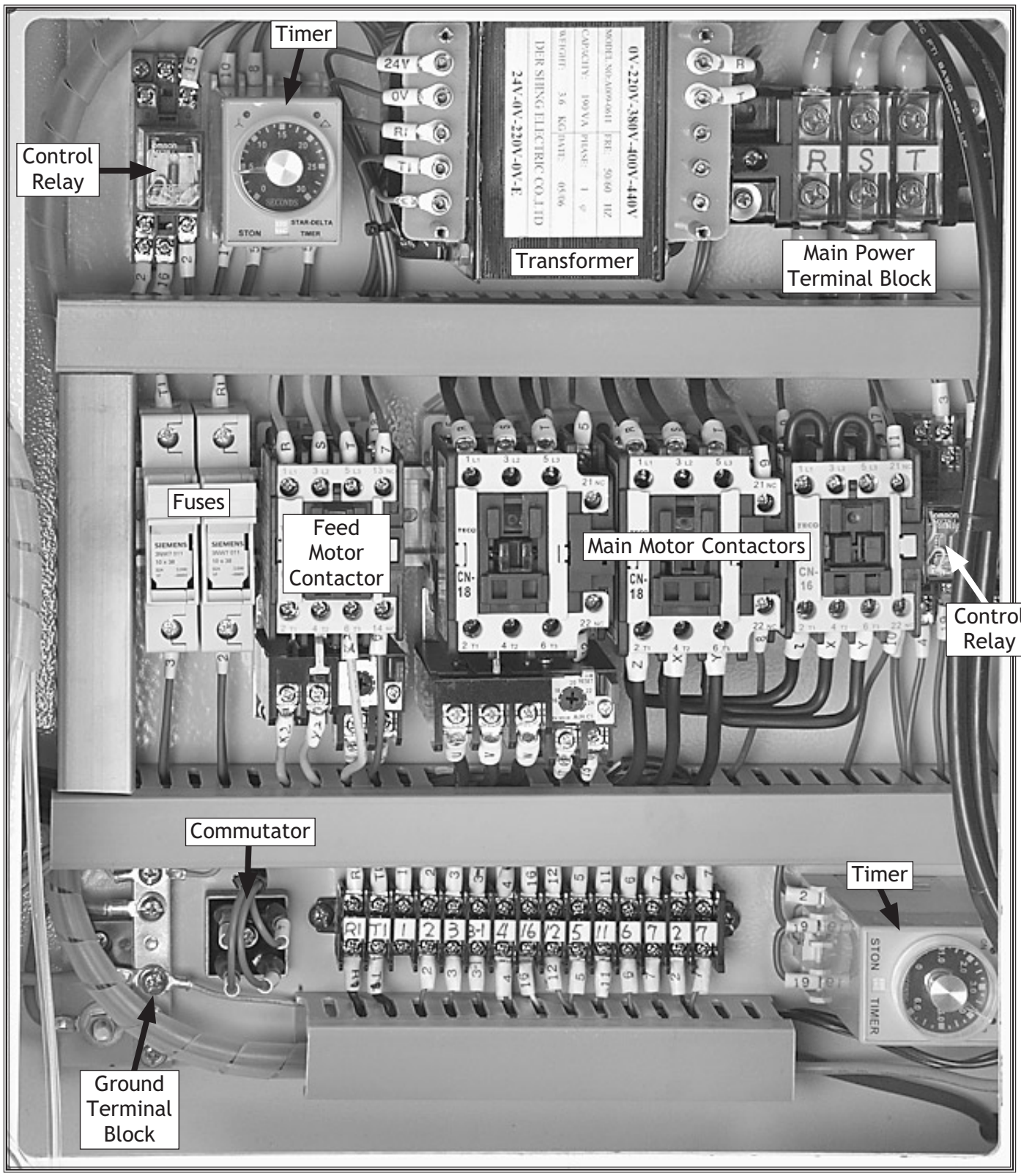
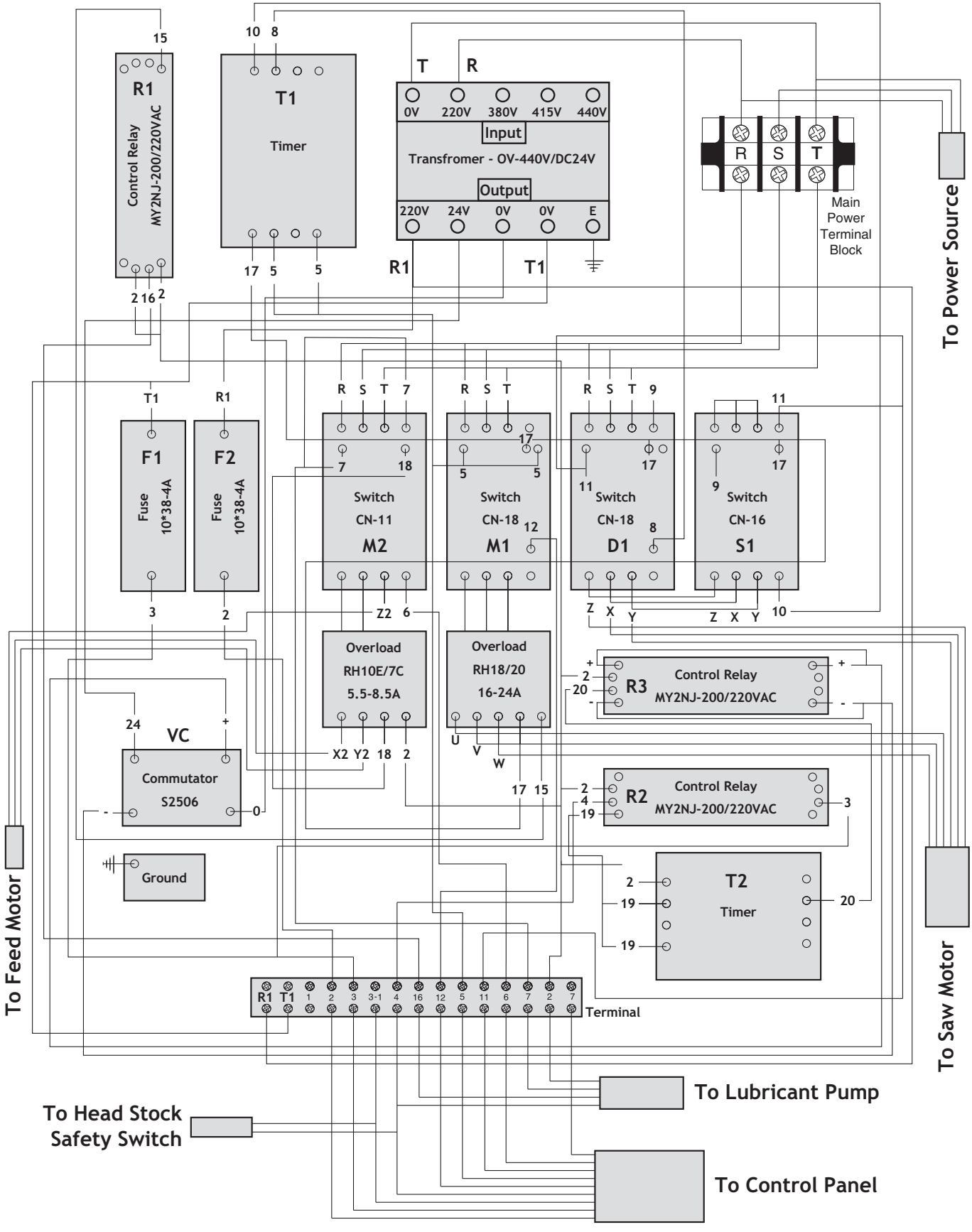


Figure 43. Model W1803 electrical box components.

Electrical Box 220V/3-Phase Wiring Diagram

(See Figure 43 on Page 34 for component locations.)



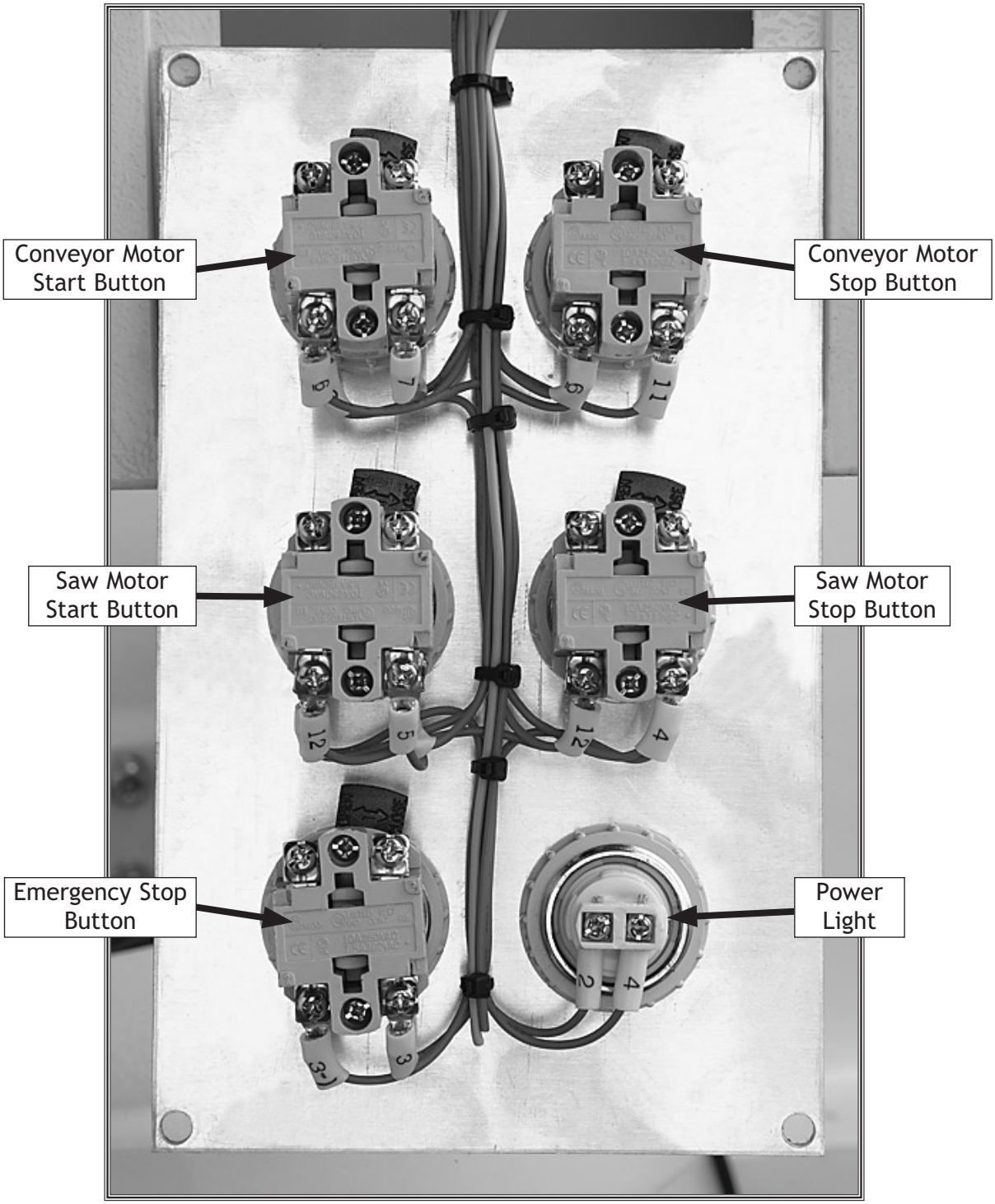


Figure 44. Model W1803 control panel components (viewed from the back of panel).

⚠DANGER

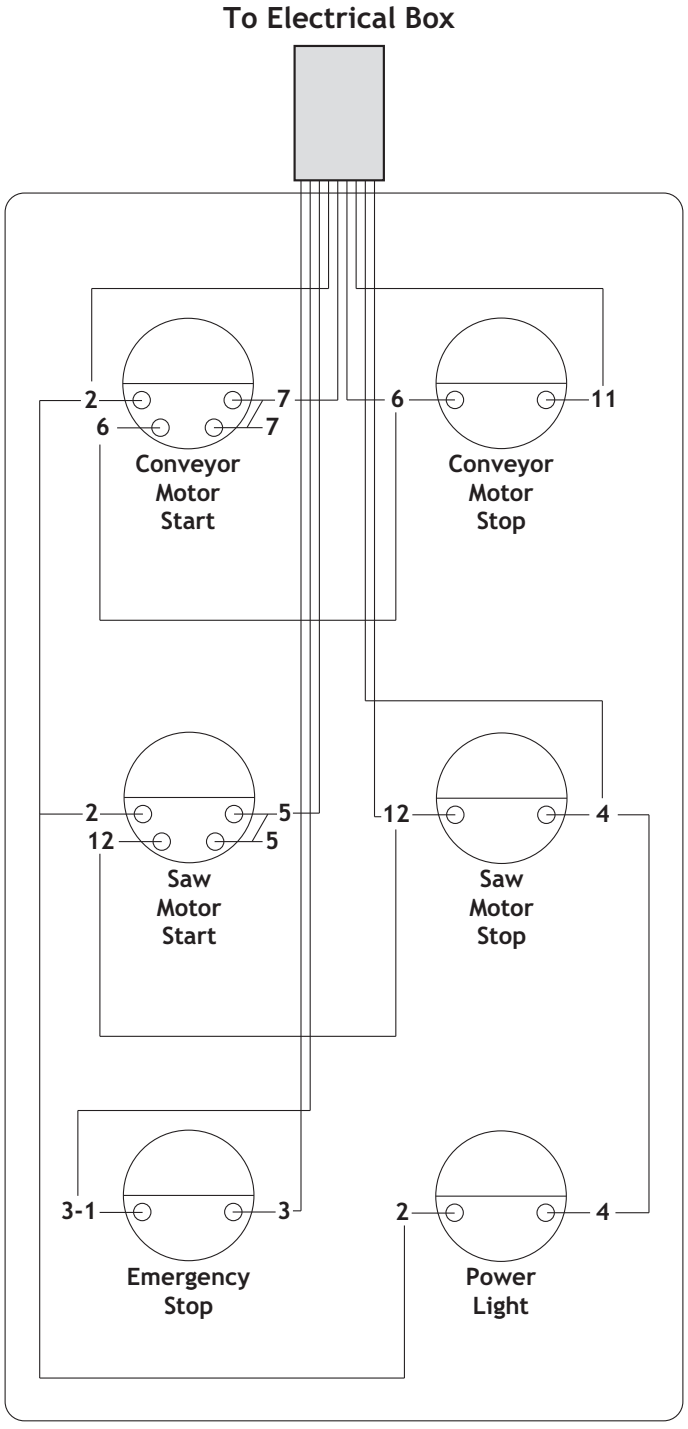
Disconnect power before performing any electrical service. Electricity presents serious shock hazards that will result in severe personal injury and even death!

Control Panel Wiring Diagram

(As Viewed From the Back and Upside Down, See Figure 44 on Page 36)

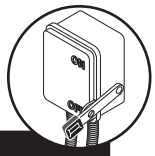
DANGER

Disconnect power before performing any electrical service. Electricity presents serious shock hazards that will result in severe personal injury and even death!



Troubleshooting

This section covers the most common problems and corrections with this type of machine. **WARNING! DO NOT make any adjustments until power is disconnected and moving parts have come to a complete stop!**



Electrical & Motor

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Machine does not start or a breaker trips.	1. Emergency stop push-button is engaged/faulty. 2. Fuse has blown. 3. Power supply switched off or is at fault. 4. Blade access door is open and safety switch engaged/at fault. 5. Motor connection wired incorrectly. 6. Thermal overload relay has tripped. 7. Wall fuse/circuit breaker is blown/tripped. 8. Contactor not getting energized/ has burnt contacts. 9. Wiring is open/has high resistance. 10. Motor ON button switch is at fault. 11. Motor is at fault. 12. Lubricant reservoir is empty or low-oil limit switch is at fault.	1. Rotate clockwise slightly until it pops out/replace it. 2. Correct short/replace fuse on control panel. 3. Ensure power supply is switched on; ensure power supply has the correct voltage. 4. Close and secure blade access door; replace faulty limit switch. 5. Correct motor wiring connections. 6. Turn cut-out dial to increase working amps and push the reset pin. Replace if tripped multiple times (weak relay). 7. Ensure circuit size is suitable for this machine; replace weak breaker. 8. Test for power on all legs and contactor operation. Replace unit if faulty. 9. Check for broken wires or disconnected/corroded connections, and repair/replace as necessary. 10. Replace faulty ON button switch. 11. Test/repair/replace. 12. Service lubricant reservoir (refer to **Lubricant System** on **Page 26**); check/replace limit switch.
Machine stalls.	1. Workpiece material is not suitable for this machine. 2. Feed rate too high 3. Workpiece alignment is poor. 4. Dust collection ducting is poor. 5. Machine is undersized for the task. 6. Belt(s) slipping. 7. Motor connection is wired incorrectly. 8. Pulley/sprocket slipping on shaft. 9. Motor bearings are at fault.	1. Only cut wood products; make sure moisture content is below 20% and there are no foreign materials in the workpiece. 2. Reduce conveyor track speed. 3. Eliminate workpiece binding; align fence (refer to **Fence Alignment** on **Page 27**), use push blocks as required for workpiece alignment control. 4. Seal all leaks, size ducts correctly, eliminate bends, and refer to Dust Collection Basics Handbook (ISBN 0-9635821-2-7) for further recommendations. 5. Use sharp blade with lower TPI; reduce the feed rate/depth of cut. 6. Replace bad belt(s) as a matched set, align pulleys, and re-tension. 7. Correct motor wiring connections. 8. Replace loose pulley/shaft. 9. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.

Electrical & Motor (continued)

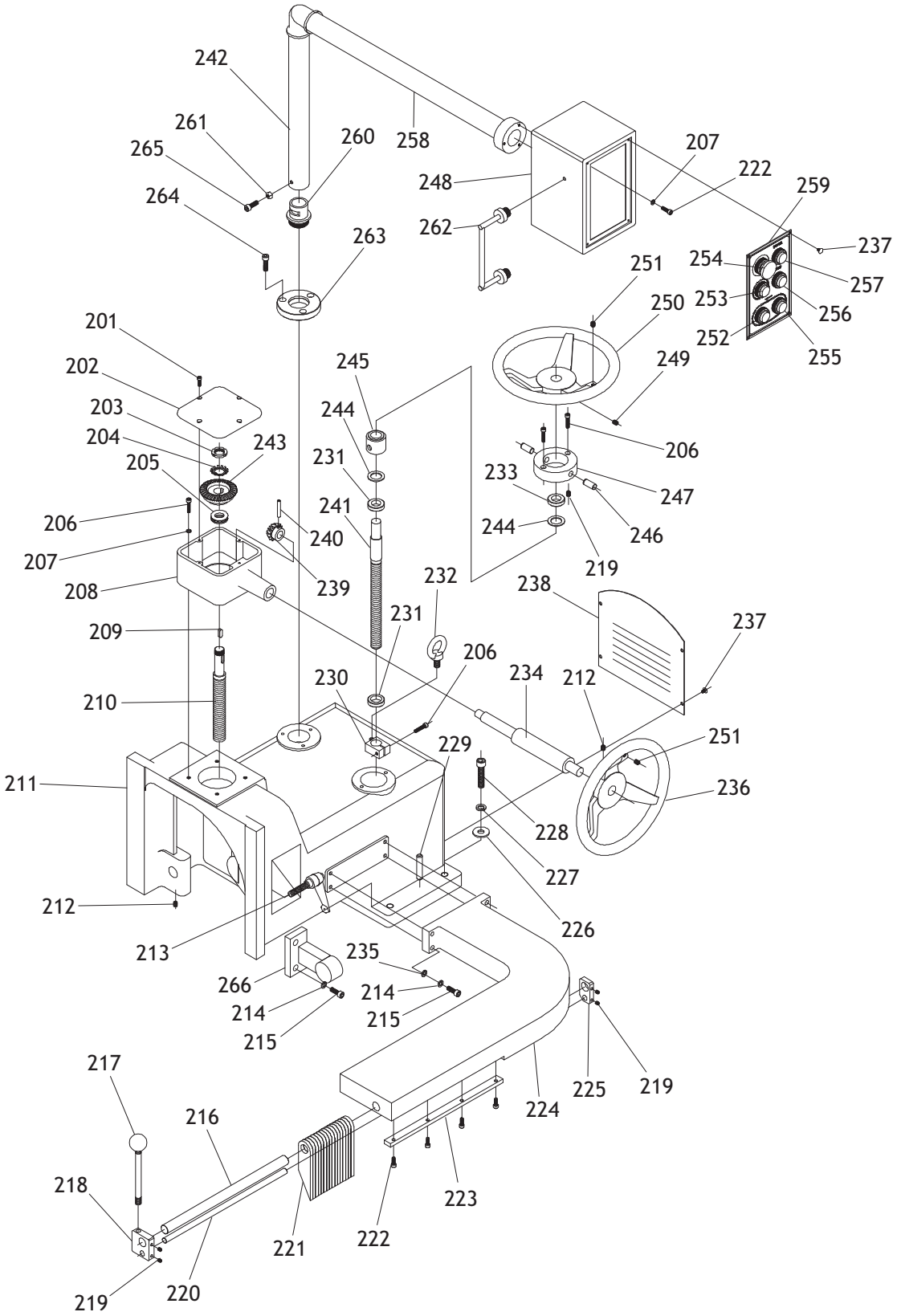
PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Machine stalls or is overloaded.	9. Contactor not getting energized or has poor contacts. 10. Motor has overheated. 11. Motor is at fault.	9. Test for power on all legs and contactor operation. Replace if faulty. 10. Clean off motor, let cool, and reduce workload. 11. Test/repair/replace.
Machine has vibration or noisy operation.	1. Motor or component is loose. 2. Blade is at fault. 3. Belt(s) worn or loose. 4. Pulley is loose. 5. Motor mount loose/broken. 6. Machine is incorrectly mounted or sits unevenly. 7. Motor fan is rubbing on fan cover. 8. Blade arbor bearings are at fault. 9. Motor bearings are at fault.	1. Inspect/replace stripped or damaged bolts/nuts, and re-tighten with thread locking fluid. 2. Replace warped, bent, or twisted blade; resharpen dull blade. 3. Inspect/replace belts with a new matched set (refer to **Page 31**). 4. Realign/replace shaft, pulley, setscrew, and key as required. 5. Tighten/replace. 6. Tighten/replace anchor studs in floor; relocate/ shim machine. 7. Replace dented fan cover; replace loose/damaged fan. 8. Replace arbor housing bearings; replace arbor. 9. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.

Rip Saw Operation

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Blade and fence are not square; workpiece not evenly cut from end-to-end; workpiece binds or burns when moving through cutting path.	1. Blade is warped. 2. Rip fence is not parallel to blade. 3. Pressure rollers not correctly bottom aligned; unevenly feeding workpiece through cutting path. 4. Long/wide workpiece not properly supported. 5. Main pressure rollers not lubricated; do not move with workpiece.	1. Replace blade. 2. Make fence parallel to blade (see **Page 27**). 3. Bottom align pressure roller assemblies (see **Page 29**). 4. Provide correct and stable support for workpiece. 5. Lubricate main pressure roller assemblies (see **Page 26**).
Fence hits table when moved.	1. Fence is not correct height from table.	1. Adjust the fence ride height (see **Page 28**).
Workpiece not cut completely through.	1. Blade height not correctly adjusted to conveyor track.	1. Adjust the blade to correct height from conveyor track (see **Page 17**).
Conveyor track will not start.	1. Saw motor not started.	1. Start saw motor first; must be started before conveyor motor with 5 second delay.

PARTS

Operating Controls Breakdown

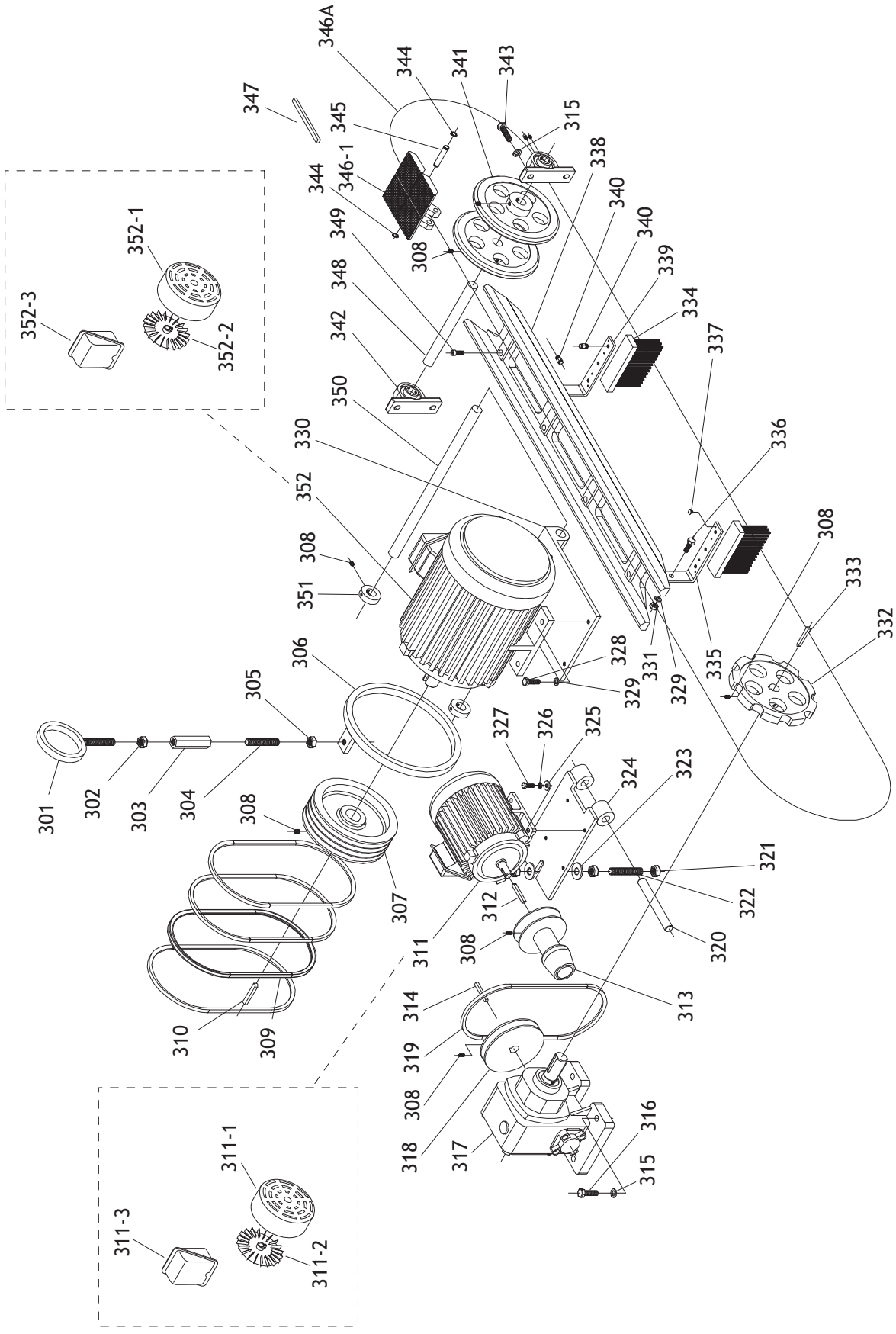


Operating Controls Parts List

REF	PART #	DESCRIPTION
201	XPSB24M	CAP SCREW M5-.8 X 16
202	X1803202	GEAR BOX COVER
203	X1803203	SPANNER LOCK NUT M20-1.0
204	XPTLW09M	EXT TOOTH WASHER 20MM
205	XP51104	THRUST BEARING 51104
206	XPSB07M	CAP SCREW M6-1 X 30
207	XPLW03M	LOCK WASHER 6MM
208	X1803208	GEAR BOX
209	XPK82M	KEY 7 X 7 X 18
210	X1803210	LEAD SCREW
211	X1803211	HOUSING
212	XPSS06M	SET SCREW M8-1.25 X 16
213	X1803213	LOCKING HANDLE
214	XPLW04M	LOCK WASHER 8MM
215	XPSB40M	CAP SCREW M8-1.25 X 35
216	X1803216	SHAFT
217	X1803217	LEVER M10-1.5 X 135
218	X1803218	BRACKET
219	XPSS01M	SET SCREW M6-1 X 10
220	X1803220	SHAFT
221	X1803221	ANTI-KICKBACK FINGER
222	XPSB01M	CAP SCREW M6-1 X 16
223	X1803223	FIXED PLATE
224	X1803224	MOUNTING ARM
225	X1803225	BRACKET
226	XPW06M	FLAT WASHER 12MM
227	XPLW05M	LOCK WASHER 12MM
228	XPSB119M	CAP SCREW M12-1.75 X 55
229	X1803229	SPECIAL TAPER PIN
230	X1803230	CLAMP
231	X1803231	SPECIAL RING
232	X1803232	LIFTING EYE BOLT M12 1.75 X 22
233	X1803233	SPECIAL RING

REF	PART #	DESCRIPTION
234	X1803234	SHAFT
235	XPW01M	FLAT WASHER 8MM
236	X1803236	HANDWHEEL
237	XPS05M	PHLP HD SCR M5-.8 x 8
238	X1803238	COVER
239	X1803239	BEVEL GEAR
240	XPRP49M	ROLL PIN 5 X 25
241	X1803241	LEAD SCREW
242	X1803242	CONTROL BOX ARM
243	X1803243	BEVEL GEAR
244	X1803244	SPACER
245	X1803245	BUSHING
246	X1803246	SPECIAL PIN
247	X1803247	MOUNTING BRACKET
248	X1803248	CONTROL BOX
249	XPSS16M	SET SCREW M8-1.25 X 10
250	X1803250	HANDWHEEL
251	XPSS15	SET SCREW 3/8-16 X 3/8
252	X1803252	FEED MOTOR ON BUTTON
253	X1803253	SAW MOTOR ON BUTTON
254	X1803254	EMERGENCY STOP BUTTON
255	X1803255	FEED MOTOR OFF BUTTON
256	X1803256	SAW MOTOR OFF BUTTON
257	X1803257	POWER LIGHT
258	X1803258	CONTROL BOX ARM
259	X1803259	CONTROL PANEL
260	X1803260	BUSHING
261	XPN03M	HEX NUT M8-1.25
262	X1803262	HANDLE
263	X1803263	MOUNTING BRACKET
264	XPSB14M	CAP SCREW M8-1.25 X 20
265	XPSS09M	SET SCREW M8-1.25 X 20
266	X1803266	BRACKET

Motor & Conveyor Breakdown

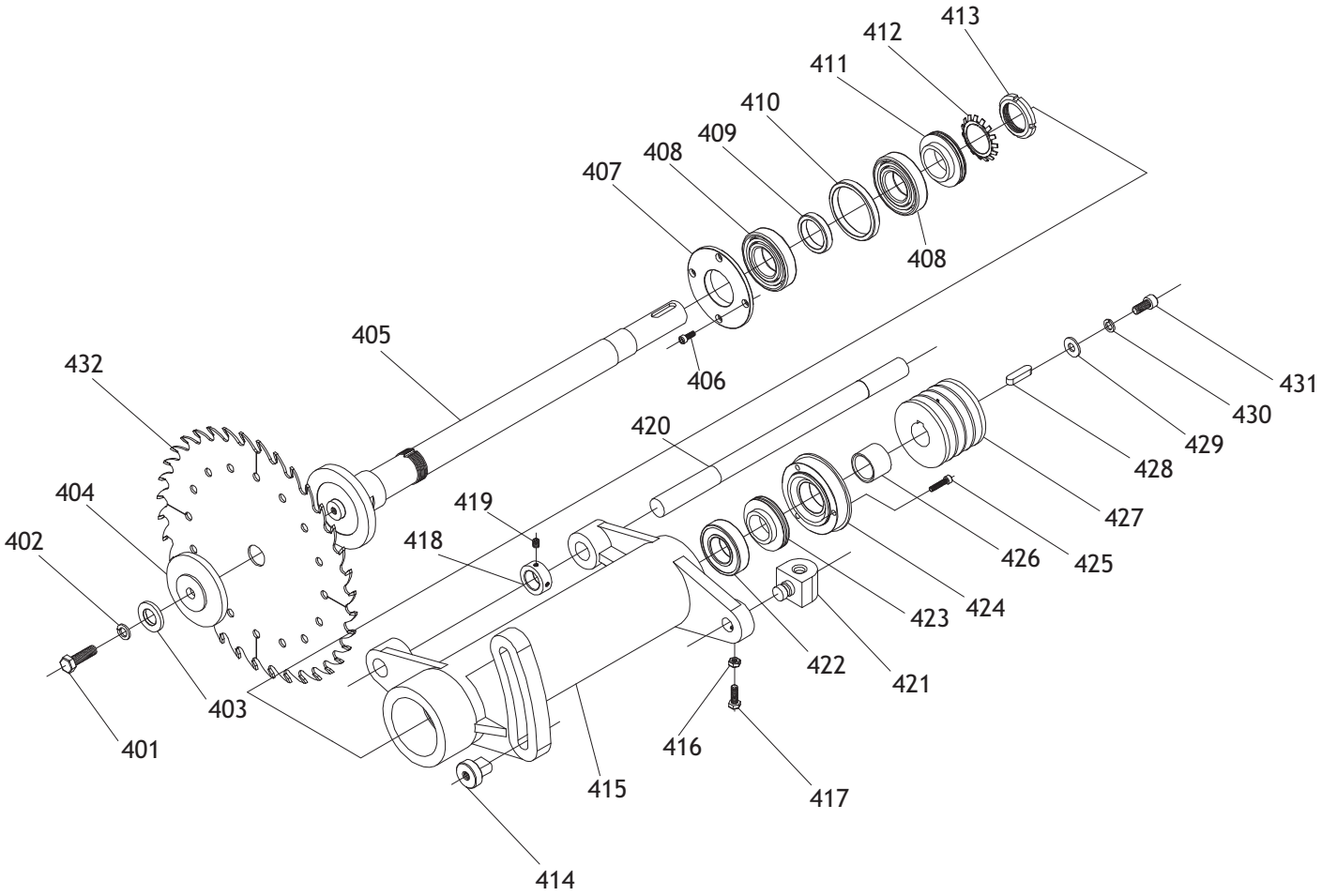


Motor & Conveyor Parts List

REF	PART #	DESCRIPTION
301	X1803301	SPECIAL EYE-BOLT M16-2 X 90 LH
302	X1803302	HEX NUT LEFT M16-2 LH
303	X1803303	SPECIAL NUT M16-2 LH/RH
304	X1803304	SPECIAL BOLT M16-2 X 110
305	XPN13M	HEX NUT M16-2
306	X1803306	ADJUSTING RING
307	X1803307	SAW MOTOR PULLEY
308	XPSS06M	SET SCREW M8-1.25 X 16
309	XPVA55	V-BELT A-55 4L550
310	XPK78M	KEY 10 X 8 X 70
311	X1803311	MOTOR 2HP/220-440V/3-PH
311-1	X1803311-1	MOTOR FAN COVER
311-2	X1803311-2	MOTOR FAN
311-3	X1803311-3	MOTOR JUNCTION BOX
312	XPK41M	KEY 8 X 8 X 40
313	X1803313	FEED MOTOR PULLEY
314	XPK62M	KEY 7 X 7 X 45
315	XPLW05M	LOCK WASHER 12MM
316	XPB35M	HEX BOLT M12-1.75 X 40
317	X1803317	REDUCER GEAR BOX
318	X1803318	REDUCER PULLEY
319	X1803319	COG TOOTH BELT 1922V30-22
320	X1803320	SHAFT
321	XPN09M	HEX NUT M12-1.75
322	X1803322	STUD BOLT M12-1.75 X 100
323	XPW06M	FLAT WASHER 12MM
324	X1803324	MOTOR MOUNT
325	XPW06M	FLAT WASHER 12MM
326	XPLW04M	LOCK WASHER 8MM
327	XPB07M	HEX BOLT M8-1.25 X 25

REF	PART #	DESCRIPTION
328	XPB14M	HEX BOLT M10-1.5 X 35
329	XPLW06M	LOCK WASHER 10MM
330	X1803330	MOTOR MOUNT
331	XPN02M	HEX NUT M10-1.5
332	X1803332	SPROCKET (10T)
333	XPK84M	KEY 10 X 8 X 30
334	X1803334	BRUSH
335	X1803335	BRACE
336	XPB01M	HEX BOLT M10-1.5 X 30
337	X1803337	PHLP HD SCR 5-40 X 3/4
338	X1803338	RAIL BODY
339	X1803339	BRACE
340	X1803340	OIL NOZZLE 1/8" PT X 4MM
341	X1803341	IDLE WHEEL
342	X1803342	BALL BEARING ASSEMBLY
343	XPB27M	HEX BOLT M12-1.75 X 30
344	XPR03M	EXT RETAINING RING 12MM
345	X1803345	SHAFT
346-1	X1803346-1	CONVEYOR PLATE
346A	X1803346A	COMPLETE CONVEYOR BELT
347	X1803347	BAKELITE CONVEYOR INSERT
348	X1803348	SHAFT
349	XPSB31M	CAP SCREW M8-1.25 X 25
350	X1803350	SHAFT
351	X1803351	SPACER
352	X1803352	MOTOR 15HP/220-440V/3-PH
352-1	X1803352-1	MOTOR FAN COVER
352-2	X1803352-2	MOTOR FAN
352-3	X1803352-3	MOTOR JUNCTION BOX

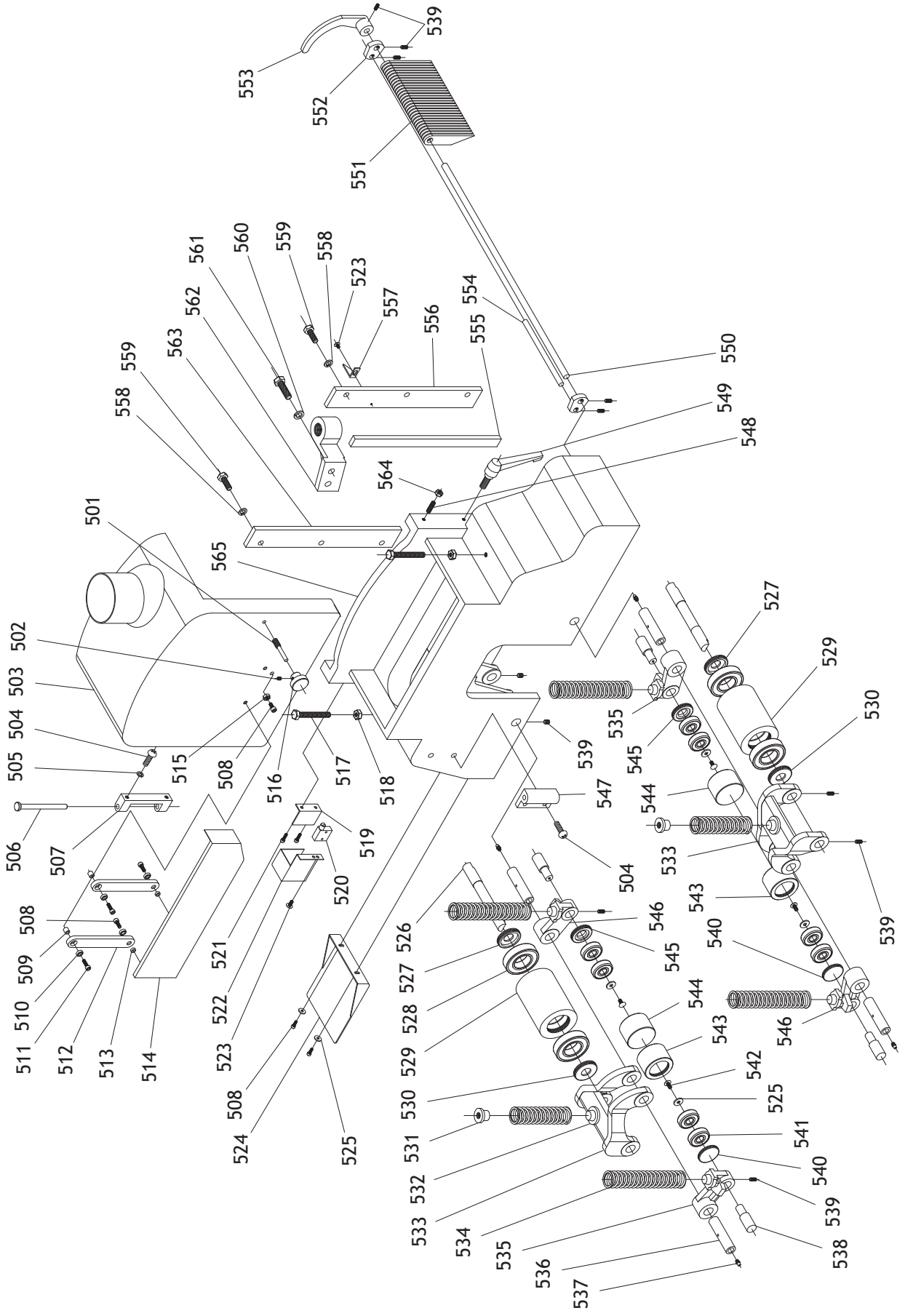
Blade Assembly Breakdown & Parts List



REF	PART #	DESCRIPTION
401	XPB35M	HEX BOLT M12-1.75 X 40
402	XPLW05M	LOCK WASHER 12MM
403	X1803403	SPECIAL WASHER 12 X 30 X 5MM
404	X1803404	ARBOR FLANGE
405	X1803405	BLADE SPINDLE
406	XPSB01M	CAP SCREW M6-1 X 16
407	X1803407	MOUNTING BRACKET
408	X1803408	BALL BEARING 7208
409	X1803409	RING
410	X1803410	RING
411	X1803411	FLANGE RING
412	XPTLW10M	EXT TOOTH WASHER 40MM
413	X1803413	SPANNER LOCK NUT M40-15 LH
414	X1803414	SPECIAL NUT M12-1.75
415	X1803415	SPINDLE SHAFT BOX
416	XPN03M	HEX NUT M8-1.25

REF	PART #	DESCRIPTION
417	XPB20M	HEX BOLT M8-1.25 X 35
418	X1803418	LOCK COLLAR
419	XPSS16M	SET SCREW M8-1.25 X 10
420	X1803420	SHAFT
421	X1803421	SPECIAL NUT TW22-P5
422	XP6207	BALL BEARING 6207ZZ
423	X1803423	FLANGE RING
424	X1803424	SPINDLE COVER
425	XPSB07M	CAP SCREW M6-1 X 30
426	X1803426	SPACER
427	X1803427	SPINDLE PULLEY
428	XPK80M	KEY 10 X 8 X 40
429	XPW04M	FLAT WASHER 10MM
430	XPLW06M	LOCK WASHER 10MM
431	XPSB64M	CAP SCREW M10-1.5 X 25
432	X1803432	SAW BLADE 12" X 48T X 4W

Headstock Breakdown



Headstock Parts List

REF	PART #	DESCRIPTION
501	X1803501	KNOB SCREW M10-1.5 X 20
502	XPSS02M	SET SCREW M6-1 X 6
503	X1803503	DUST HOOD
504	XPS32M	PHLP HD SCR M8-1.25 X 25
505	XPLW04M	LOCK WASHER 8MM
506	X1803506	HINGE PIN
507	X1803507	HINGE
508	XPS11M	PHLP HD SCR M6-1 X 16
509	X1803509	BUSHING 6 X 10 X 10T
510	XP696	BALL BEARING 696
511	XPS47M	PHLP HD SCR M6-1 X 25
512	X1803512	ROCKER ARM
513	X1803513	BUSHING 6 X 10 X 6T
514	X1803514	SIDE GUARD
515	XPN01M	HEX NUT M6-1
516	X1803516	STEEL KNOB FEMALE 7MM
517	XPB13M	HEX BOLT M10-1.5 X 80
518	XPN02M	HEX NUT M10-1.5
519	X1803519	BRACKET
520	X1803520	LIMIT SWITCH
521	XPS08M	PHLP HD SCR M5-.8 X 12
522	X1803522	COVER
523	XPS05M	PHLP HD SCR M5-.8 x 8
524	X1803524	BACK SAFETY GUARD
525	XPW03M	FLAT WASHER 6MM
526	X1803526	SHAFT
527	X1803527	BEARING COVER RIGHT
528	XP6204	BALL BEARING 6204ZZ
529	X1803529	ROLLER
530	X1803530	BEARING COVER LEFT
531	X1803531	SPECIAL NUT M10-1.5
532	X1803532	SPRING SEAT
533	X1803533	ARM

REF	PART #	DESCRIPTION
534	X1803534	HELICAL SPRING 26 X 30 X 155
535	X1803535	SPRING ARM
536	X1803536	SHAFT
537	X1803537	GREASE FITTING M6-1 X 6
538	X1803538	SHAFT
539	XPSS01M	SET SCREW M6-1 X 10
540	X1803540	BEARING COVER LEFT
541	XP6302	BALL BEARING 6302
542	XPS14M	PHLP HD SCR M6-1 X 12
543	X1803543	PRESSURE ROLLER LEFT
544	X1803544	PRESSURE ROLLER RIGHT
545	X1803545	BEARING COVER RIGHT
546	X1803546	SPRING ARM
547	X1803547	HINGE
548	XPSS19M	SET SCREW M8-1.25 X 30
549	X1803549	LOCKING HANDLE M12-30
550	X1803550	SHAFT
551	X1803551	ANTI-KICKBACK FINGERS
552	X1803552	BRACKET
553	X1803553	ROCKER ARM
554	X1803554	SHAFT
555	X1803555	GIB
556	X1803556	LOCK BAR
557	X1803557	POINTER
558	XPLW06M	LOCK WASHER 10MM
559	XPB01M	HEX BOLT M10-1.5 X 30
560	XPLW05M	LOCK WASHER 12MM
561	XPB35M	HEX BOLT M12-1.75 X 40
562	X1803562	BRACKET
563	X1803563	LOCK BAR
564	XPN03M	HEX NUT M8-1.25
565	X1803565	HEAD STOCK

Table & Cabinet Breakdown

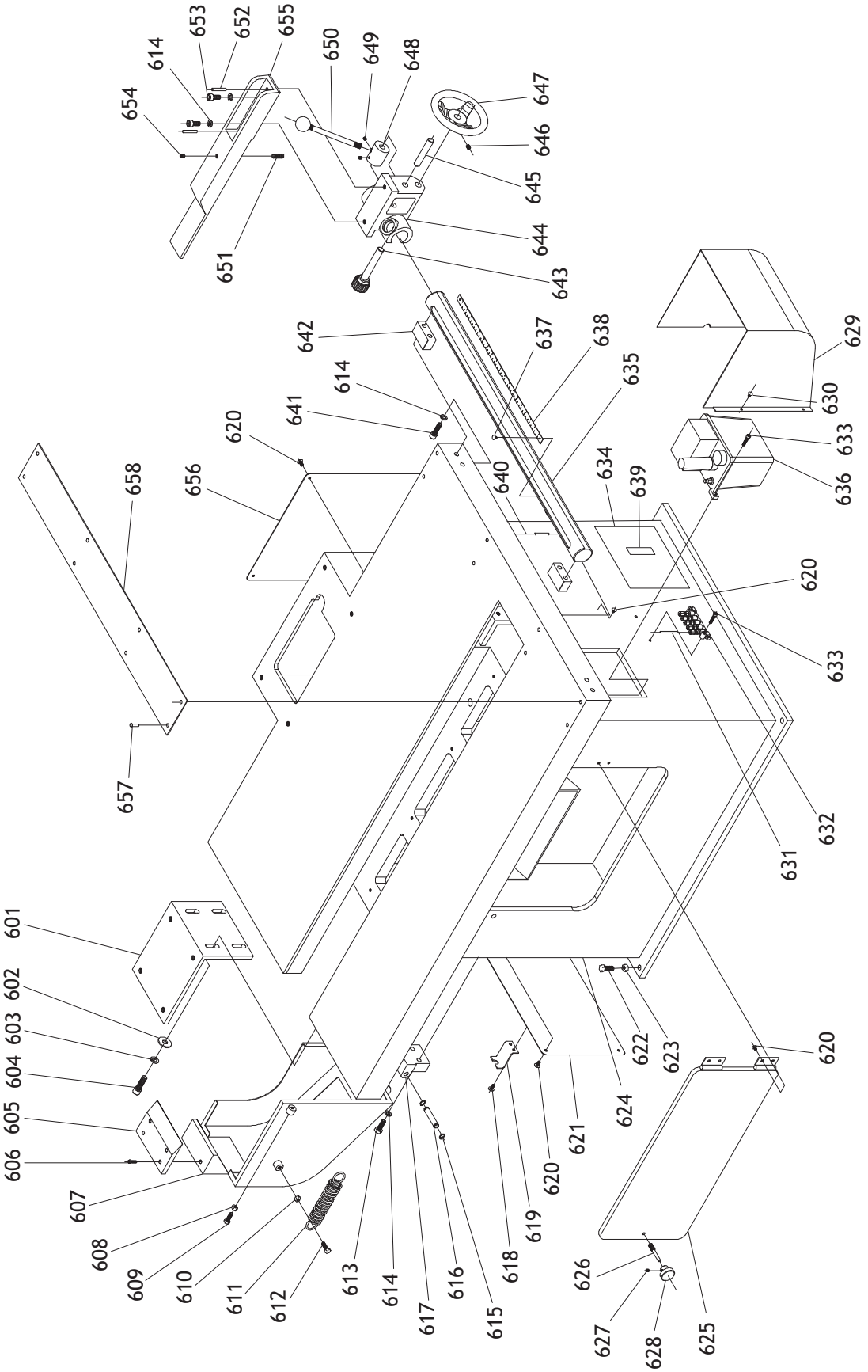
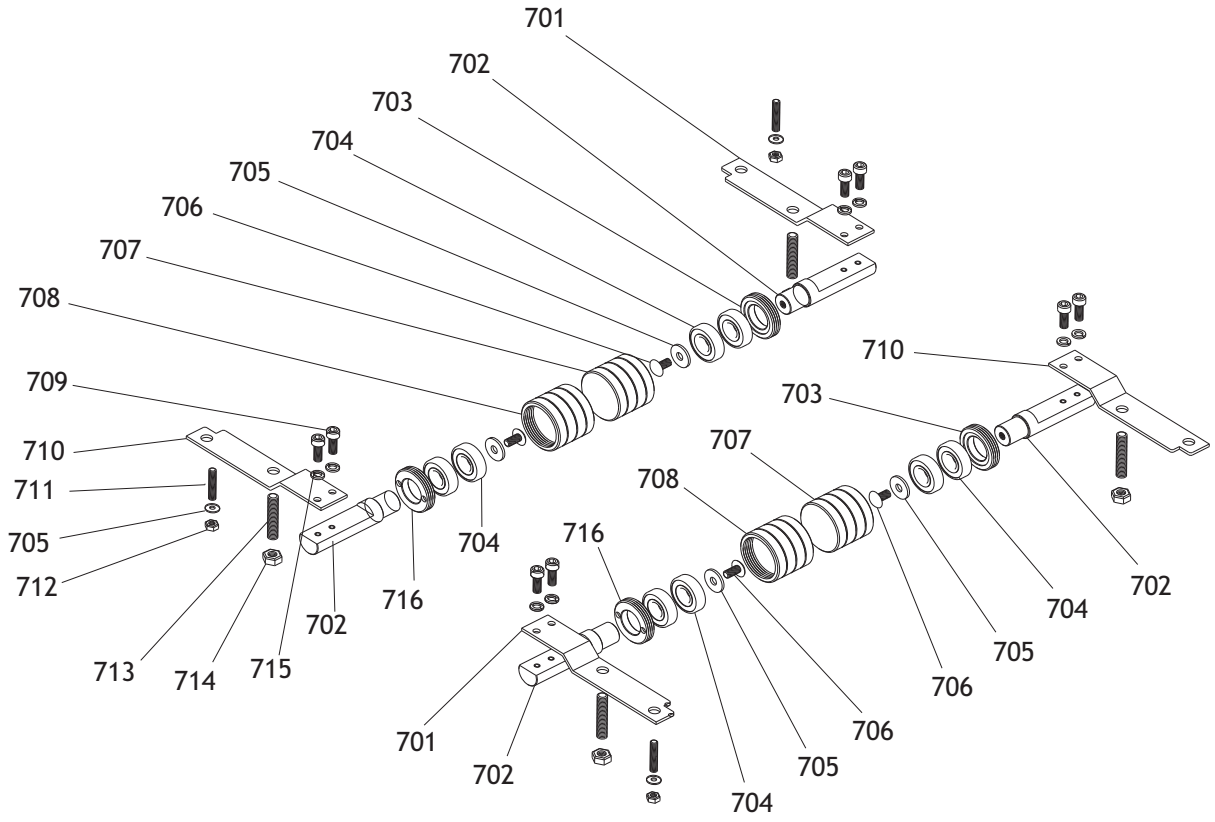


Table & Cabinet Parts List

REF	PART #	DESCRIPTION
601	X1803601	BRACKET
602	XPW06M	FLAT WASHER 12MM
603	XPLW05M	LOCK WASHER 12MM
604	XPSB92M	CAP SCREW M12-1.75 X 40
605	X1803605	COVER PLATE
606	XPSB24M	CAP SCREW M5-.8 X 16
607	X1803607	COVER
608	XPN03M	HEX NUT M8-1.25
609	XPB20M	HEX BOLT M8-1.25 X 35
610	XPN08M	HEX NUT M10-1.25
611	X1803611	HELICAL SPRING 22 X 25 X 152
612	XPSB89M	CAP SCREW M10-1.25 X 35
613	XPB116M	HEX BOLT M10-1.5 X 45
614	XPLW06M	LOCK WASHER 10MM
615	XPR03M	EXT RETAINING RING 12MM
616	X1803616	SHAFT
617	X1803617	BRACKET
618	XPSB04M	CAP SCREW M6-1 X 10
619	X1803619	BRACKET
620	XPS14M	PHLP HD SCR M6-1 X 12
621	X1803621	COVER
622	XPB114M	HEX BOLT M16-1.5 X 80
623	XPN05M	HEX NUT M16-1.5
624	X1803624	CABINET
625	X1803625	COVER
626	X1803626	LOCK SCREW M10-1.5 X 20
627	XPSS02M	SET SCREW M6-1 X 6
628	X1803628	STEEL KNOB FEMALE 7MM
629	X1803629	COVER

REF	PART #	DESCRIPTION
630	XPS05M	PHLP HD SCR M5-.8 x 8
631	X1803631	OIL TUBE
632	X1803632	LUBRICANT DISTRIBUTOR
633	XPSB02M	CAP SCREW M6-1 X 20
634	X1803634	COVER
635	X1803635	FENCE RAIL
636	X1803636	LUBRICATOR
637	XPS79M	PHLP HD SCR M3-.5 X 8
638	X1803638	SCALE 480MM
639	X1803639	ACRYLIC WINDOW
640	X1803640	COVER
641	XPSB71M	CAP SCREW M10-1.5 X 60
642	X1803642	BRACKET
643	X1803643	GEAR
644	X1803644	GEAR BOX
645	X1803645	SHAFT
646	XPSS16M	SET SCREW M8-1.25 X 10
647	X1803647	HANDWHEEL
648	X1803648	LEVER HUB
649	XPSS01M	SET SCREW M6-1 X 10
650	X1803650	KNOB LEVER M12-1.75 X 140
651	X1803651	SPECIAL SCREW M10-1.5 X 28
652	X1803652	SPECIAL PIN #7 X 1-1/2"
653	XPSB89M	CAP SCREW M10-1.25 X 35
654	XPSS75M	SET SCREW M10-1.5 X 16
655	X1803655	FENCE
656	X1803656	COVER
657	XPFH06M	FLAT HD SCR M6-1 X 20
658	X1803658	SAFETY COVER

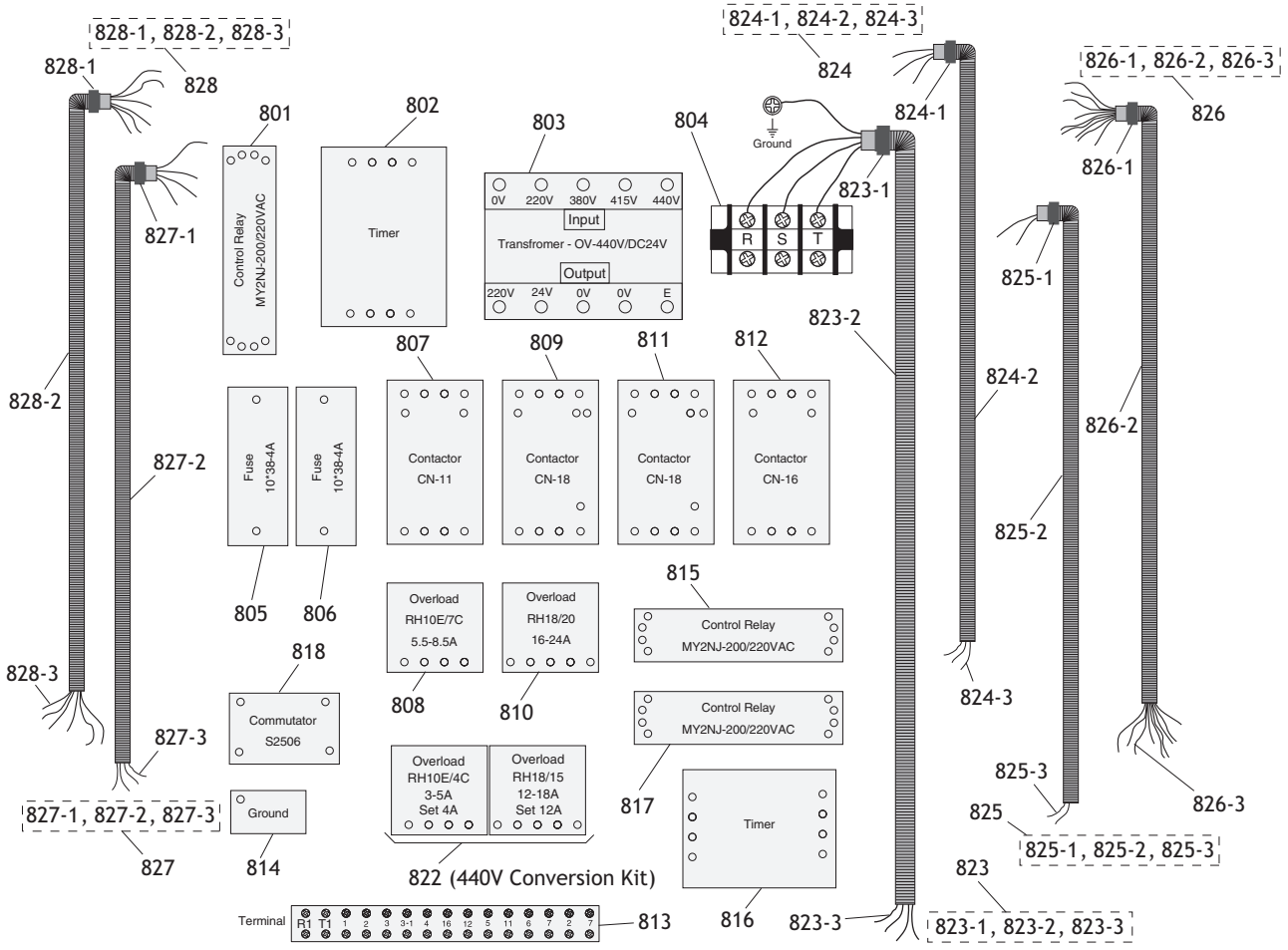
Auxiliary Roller Assembly Breakdown & Parts List



REF	PART #	DESCRIPTION
701	X1803701	SPRING BRACKET LEFT
702	X1803702	SHAFT
703	X1803703	BEARING COVER RIGHT
704	XP6003	BALL BEARING 6003ZZ
705	XPW03M	FLAT WASHER 6MM
706	XPS14M	PHLP HD SCR M6-1 X 12
707	X1803707	ROLLER RIGHT
708	X1803708	ROLLER LEFT

REF	PART #	DESCRIPTION
709	XPSB01M	CAP SCREW M6-1 X 16
710	X1803710	SPRING BRACKET RIGHT
711	XPSS12M	SET SCREW M6-1 X 25
712	XPN01M	HEX NUT M6-1
713	X1803713	THREADED STUD
714	XPN03M	HEX NUT M8-1.25
715	XPLW03M	LOCK WASHER 6MM
716	X1803716	BEARING COVER LEFT

Electrical Box Component Breakdown & Parts List



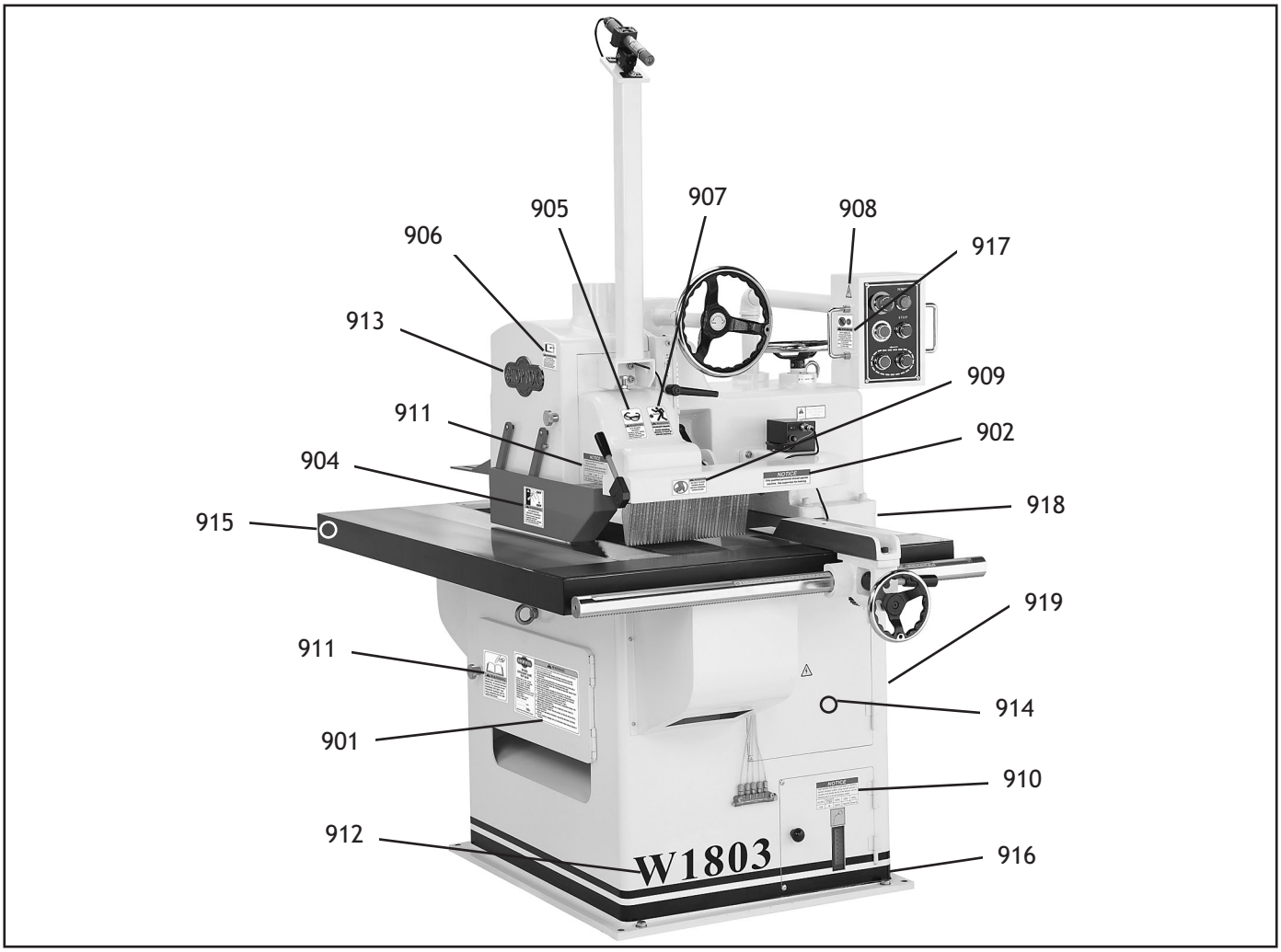
REF	PART #	DESCRIPTION
801	X1803801	RELAY MY2NJ-200/220VAC
802	X1803802	TIMER
803	X1803803	TRANSFORMER OV-440V/DC24V
804	X1803804	TERMINAL BLOCK 6-P
805	X1803805	FUSE 10*38-4A
806	X1803806	FUSE 10*38-4A
807	X1803807	CONTACTOR CN-11
808	X1803808	OVERLOAD RH10E/7C 5.5-8.5A
809	X1803809	CONTACTOR CN-18
810	X1803810	OVERLOAD RH18/20 16-24A
811	X1803811	CONTACTOR CN-18
812	X1803812	CONTACTOR CN-16
813	X1803813	TERMINAL 30-P
814	X1803814	GROUND BLOCK
815	X1803815	RELAY MY2NJ-200/220VAC
816	X1803816	TIMER
817	X1803817	RELAY MY2NJ-200/220VAC
818	X1803818	COMMUTATOR S2506
822	X1803822	440V CONVERSION KIT
823	X1803823	POWER WIRING HARNESS
823-1	X1803823-1	STRAIN RELIEF
823-2	X1803823-2	WIRING HARNESS CONDUIT

REF	PART #	DESCRIPTION
823-3	X1803823-3	POWER WIRES
824	X1803824	FEED MOTOR WIRING HARNESS
824-1	X1803824-1	STRAIN RELIEF
824-2	X1803824-2	WIRING HARNESS CONDUIT
824-3	X1803824-3	POWER WIRES
825	X1803825	HEAD SAFETY SW WIRING HARNESS
825-1	X1803825-1	STRAIN RELIEF
825-2	X1803825-2	WIRING HARNESS CONDUIT
825-3	X1803825-3	POWER WIRES
826	X1803826	CONTROL PANEL WIRING HARNESS
826-1	X1803826-1	STRAIN RELIEF
826-2	X1803826-2	WIRING HARNESS CONDUIT
826-3	X1803826-3	POWER WIRES
827	X1803827	LUBRICANT PUMP WIRING HARNESS
827-1	X1803827-1	STRAIN RELIEF
827-2	X1803827-2	WIRING HARNESS CONDUIT
827-3	X1803827-3	POWER WIRES
828	X1803828	SAW MOTOR WIRING HARNESS
828-1	X1803828-1	STRAIN RELIEF
828-2	X1803828-2	WIRING HARNESS CONDUIT
828-3	X1803828-3	POWER WIRES

Label Placement

⚠WARNING

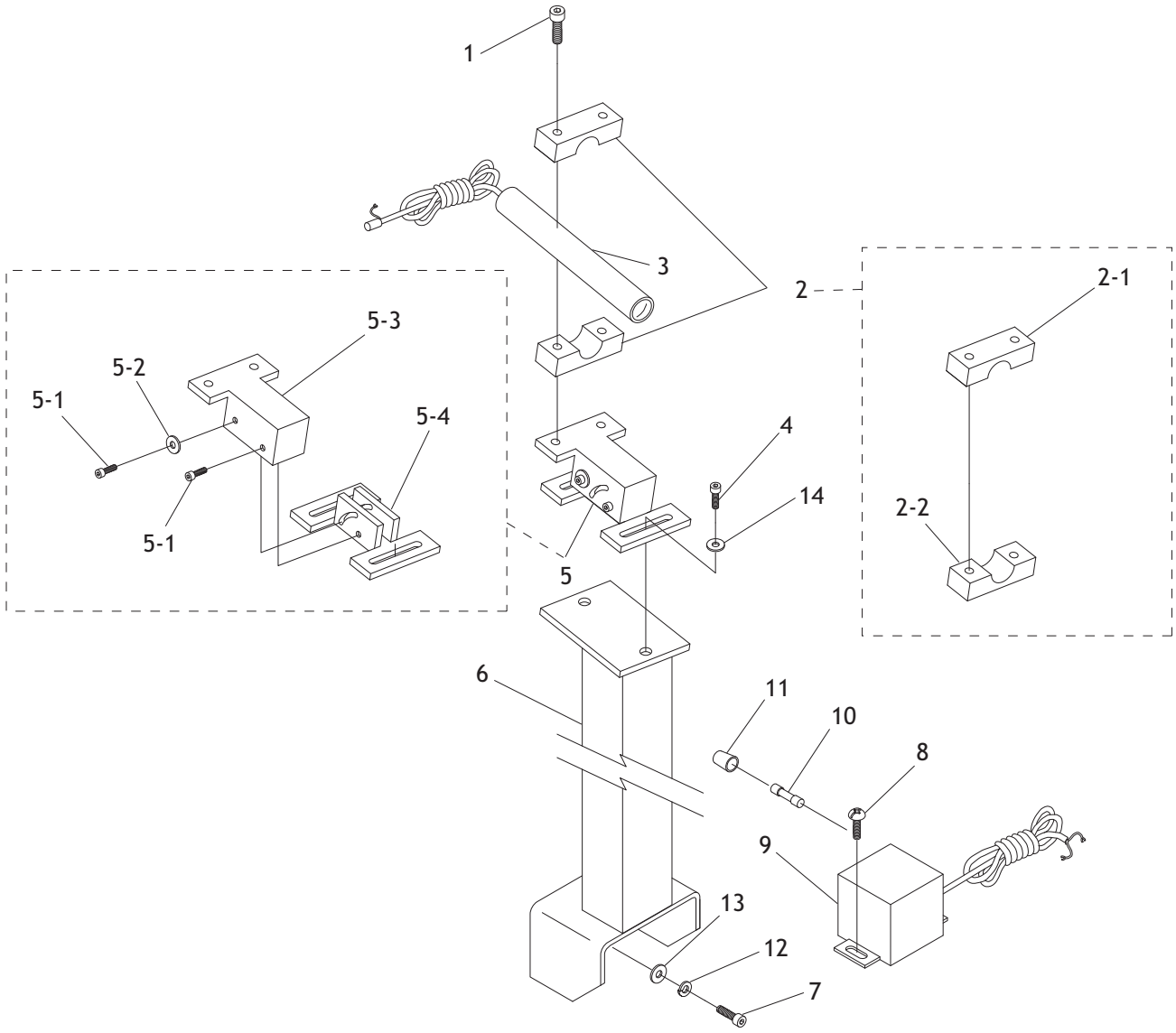
Safety labels warn about machine hazards and how to prevent machine damage or injury. The owner of this machine MUST maintain the original location and readability of all labels on this machine. If any label is removed or becomes unreadable, REPLACE that label before allowing the machine to enter service again. Contact Woodstock International, Inc. at (360) 734-3482 or www.shopfoxtools.com to order new labels.



REF	PART #	DESCRIPTION
901	X1803901	MACHINE ID LABEL
902	X1803902	QUALIFIED PERSONNEL LABEL
903	XLABEL08	READ MANUAL LABEL
904	XLABEL 02	DISCONNECT POWER LABEL
905	XLABEL01	SAFETY GLASSES LABEL
906	XLABEL03	CLOSED DOORS LABEL
907	X1803907	KICKBACK WARNING LABEL
908	XLABEL04	ELECTRICITY LABEL
909	X1803909	INFEED WARNING LABEL
910	X1803910	LUBRICANT NOTICE LABEL

REF	PART #	DESCRIPTION
911	X1803911	GREASE NOTICE LABEL
912	X1803912	MODEL NUMBER LABEL
913	X1803913	SHOP FOX NAMEPLATE
914	XPPAINT-1	SHOP FOX WHITE TCH/UP PAINT
915	XPPAINT-7	SHOP FOX BLACK TCH/UP PAINT
916	X1803916	SHOP FOX STRIPE LABEL
917	X1803917	CONVEYOR TRACK LABEL
918	X1803918	GEAR OIL NOTICE LABEL
919	X1803919	440V CONVERSION LABEL

Model D3698 Laser Guide (Optional) Breakdown & Parts List



REF	PART #	DESCRIPTION
1	XPSB48M	CAP SCREW M6-1 x 35
2	XD3698002	LASER CLAMP ASSEMBLY
2-1	XD3698002-1	LASER CLAMP TOP
2-2	XD3698002-2	LASER CLAMP BOTTOM
3	XD3698003	LASER
4	XPSB01M	CAP SCREW M6-1 X 16
5	XD3698005	LASER BRACKET ASSEMBLY
5-1	XPSB18M	CAP SCREW M4-.7 X 8
5-2	XPW05M	FLAT WASHER 4MM
5-3	XD3698005-3	LASER BRACKET TOP

REF	PART #	DESCRIPTION
5-4	XD3698005-4	LASER BRACKET BOTTOM
6	XD3698006	STEEL ARM
7	XPSB31M	CAP SCREW M8-1.25 X 25
8	XPS05M	PHLP HD SCR M5-.8 x 8
9	XD3698009	POWER BOX
10	XD3698010	FUSE T1AL250V
11	XD3698011	FUSE COVER
12	XPLW04M	LOCK WASHER 8MM
13	XPW01M	FLAT WASHER 8MM
14	XPW03M	FLAT WASHER 6MM

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?

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

9. Comments:_____

_____

_____

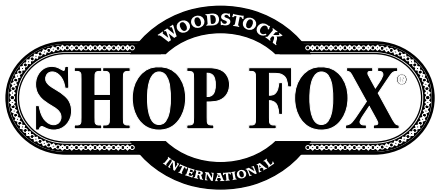
_____

_____

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

Notes

Notes

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 a Shop Fox factory service center 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.