

READ THIS FIRST

Model W1765

IMPORTANT UPDATE

Applies to Models Mfd. Since 11/16
and Owner's Manual Revised 04/14



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

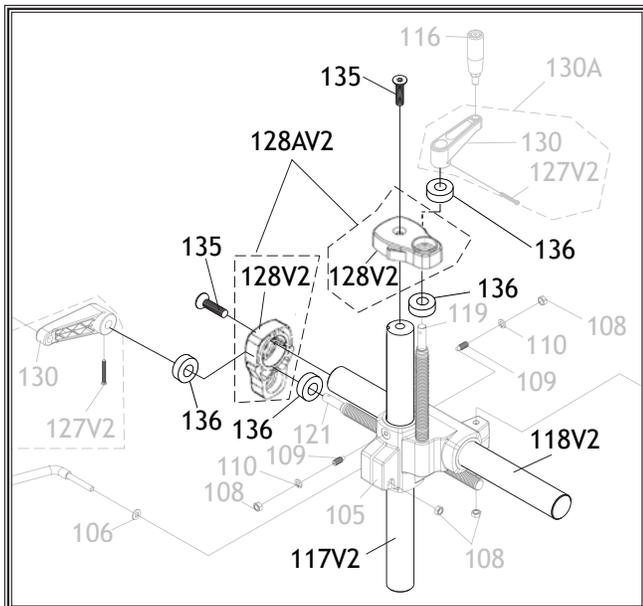
We made the following changes to this machine since the manual was printed:

- Redesigned stand column shafts, column caps, and various related hardware (see below).

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

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

Revised Stand Parts



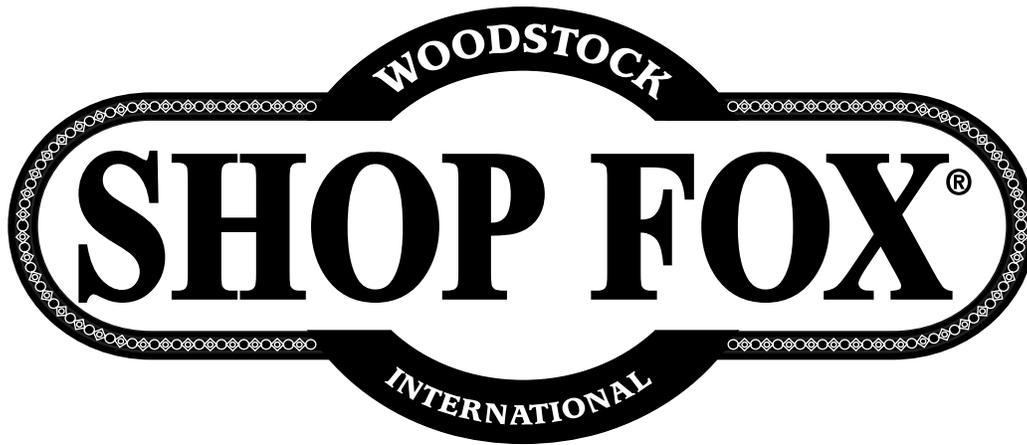
REF	PART #	DESCRIPTION
117V2	X1765117V2	ELEVATION SHAFT V2.11.16
118V2	X1765118V2	OVER ARM SHAFT V2.11.16
128AV2	X1765128AV2	COLUMN CAP ASSEMBLY V2.11.16
128V2	X1765128V2	COLUMN CAP V2.11.16
135	X1765135	FLAT HD CAP SCR M8-1.25 X 20
136	X1765136	BUSHING

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#18436BL

Printed in Taiwan



MODEL W1765 1/4 HP POWER FEEDER



OWNER'S MANUAL

(FOR MODELS MANUFACTURED SINCE 5/14)

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



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#9706CR Printed in Taiwan V2.04.14



WARNING!

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

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

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

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



WARNING!

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

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

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

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INTRODUCTION

Woodstock Technical Support

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

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

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

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



MACHINE SPECIFICATIONS



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

MODEL W1765 1/4 HP POWER FEEDER

Motor

Type	TEFC Capacitor Start Induction
Horsepower	1/4 HP
Voltage	120V
Phase.....	Single
Amps	2.5A
Speed	1725 RPM
Cycle.....	60 Hz
Number of Motor Speeds	1
Power Transfer	Gear Box
Bearings	Lubricated for Life

Main Specifications

Operation Info

Minimum Workpiece Length	5 in.
Number of Feed Speeds	4
Feed Speeds.....	20, 26, 33, 43 FPM
Swing.....	360 deg.
Vertical Movement	6-1/2 in.
Horizontal Movement	10 in.
Rotation.....	Forward, Reverse

Roller Info

Number of Rollers	3
Roller Width.....	1-3/16 in.
Roller Diameter.....	3-1/8 in.
Roller Suspension.....	3/4 in.
Maximum Height of Rollers	6 in.
Distance Between Rollers	3-3/8–4-3/8 in.

Overall Dimensions

Weight.....	73 lbs.
Length/Width/Height.....	34 x 13 x 24 in.
Column Diameter.....	1-1/2 in.

Construction Materials

Roller Construction	Synthetic Rubber
Housing Construction	Cast Aluminum
Supports Construction	Cast Iron
Column Construction	Steel
Paint.....	Epoxy



Shipping Dimensions

Type Cardboard
Content Machine
Weight 80 lbs.
Length/Width/Height 23 x 23 x 11 in.

Electrical

Switch Forward/Reverse Barrel
Switch Voltage 120V
Cord Length 9 ft.
Cord Gauge 18 gauge
Recommended Breaker Size 15 amp
Included Plug Yes

Other

ISO Factory ISO 9001
Country of Origin Taiwan
Warranty 2 Years
Assembly Time 30 minutes

Optional Accessories

Quick Holder Model D3868
Slow Speed Kit Model D3869
Extra Roller Model D3871

Features

Spring Tensioned Rollers
Heavy-Duty Gear Reduction Gearbox with Hardened Gears
Universal Positioning with Handle Locks

Controls and Features

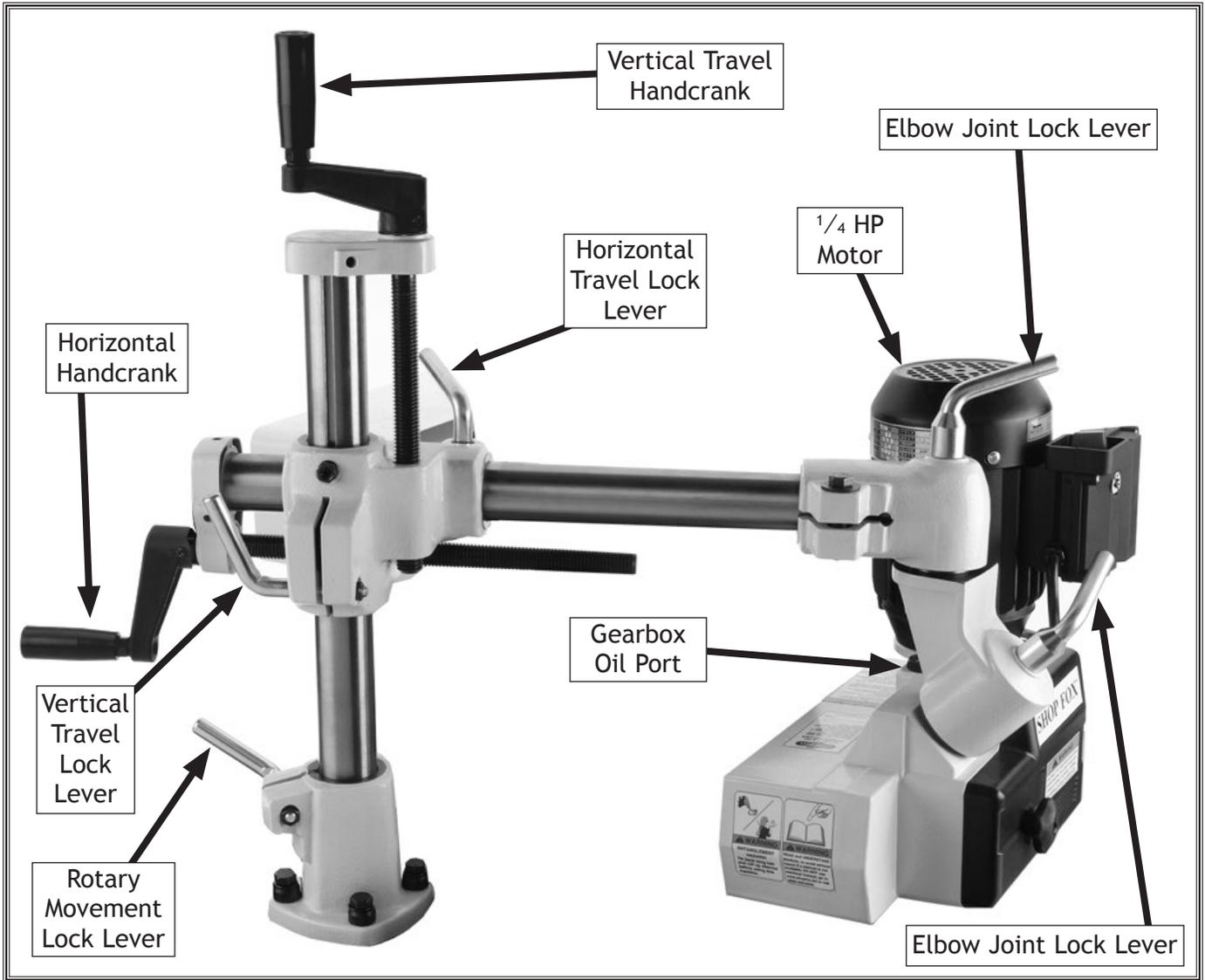


Figure 1. Controls and Features.

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 Power Feeders

MAIN INJURY HAZARDS: Death, amputation, or crushing injuries from getting entangled in moving parts—which may include being pulled into the cutting tool on attached machinery; death, blindness, broken bones, or bruises from being struck by an ejected workpiece (kickback). To minimize your risk of these hazards, always heed the following information:

SAFETY

ATTACHED MACHINERY. Follow all warnings and safety information for the attached machine doing the cutting work.

HAND SAFETY. Keep hands away from rotating parts on power feeder and spinning blade or cutter of associated machine. Turn power feeder and associated machine **OFF** and only use a brush or compressed air to remove sawdust.

INSTALLING GUARDS. Install guards, fences, and hold-downs before starting attached machine or power feeder. Repair or replace guards promptly if they become damaged.

KICKBACK. Occurs when workpiece is ejected from machine with great force, striking operator or bystanders. Commonly caused by improper machine or power feeder setup.

VERIFY EACH SETUP. Ensure that power feeder is set up correctly and firmly secured before feeding workpiece. An improperly adjusted power feeder could increase the risk of kickback, because it will continue feeding when stock is not properly positioned for the cut.

FEATHERBOARD. When cutting long or large stock that is difficult to feed properly, use a featherboard before powerfeeder (on the infeed side) to maintain even pressure and control of workpiece against fence, and help reduce risk of kickback.

FEED WORKPIECE PROPERLY. Verify blade or cutter of associated machine is at full speed before feeding stock with power feeder. Do not feed workpiece too quickly. Verify power feeder wheels are slightly lower than workpiece. Stop power feeder before stopping cutting tool.

WORKPIECE SUPPORT. Support workpiece continuously during operation as required. Use auxiliary stands or support tables for long or wide stock.

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



⚠ WARNING
 READ and understand this entire 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.

ELECTRICAL

Circuit Requirements

This machine must be connected to the correct size and type of power supply circuit, or fire or electrical damage may occur. Read through this section to determine if an adequate power supply circuit is available. If a correct circuit is not available, a qualified electrician **MUST** install one before you can connect the machine to power.

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)

Full-Load Current Rating

The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating at 120V 2.5 Amps

Circuit Requirements for 120V

This machine can be converted to operate on a 110V power supply (details about voltage conversion can be found later in this manual). The 110V power supply circuit must have a verified ground and meet the requirements that follow:

Circuit Type 120V, 60 Hz, Single-Phase
Circuit Size 15 Amps
Plug/Receptacle NEMA 5-15

⚠ 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 later in this manual.

⚠ WARNING



Incorrectly wiring or grounding this machine can cause electrocution, fire, or machine damage. To reduce this risk, only an electrician or qualified service personnel should do any required electrical work on this machine.

NOTICE

The circuit requirements listed in this manual apply to a dedicated circuit—where only one machine will be running at a time. If this machine will be connected to a shared circuit where multiple machines will be running at the same time, consult with an electrician to ensure that the circuit is properly sized for safe operation.

ELECTRICAL

Grounding Requirements

This machine **MUST** be grounded. In the event of certain types of malfunctions or breakdowns, grounding provides a path of least resistance for electric current to travel—in order to reduce the risk of electric shock.

Improper connection of the equipment-grounding wire will increase the risk of electric shock. The wire with green insulation (with/without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

For 120V Connection

This machine is equipped with a power cord that has an equipment-grounding wire and NEMA 5-15 grounding plug. The plug must only be inserted into a matching receptacle (see **Figure**) that is properly installed and grounded in accordance with local codes and ordinances.

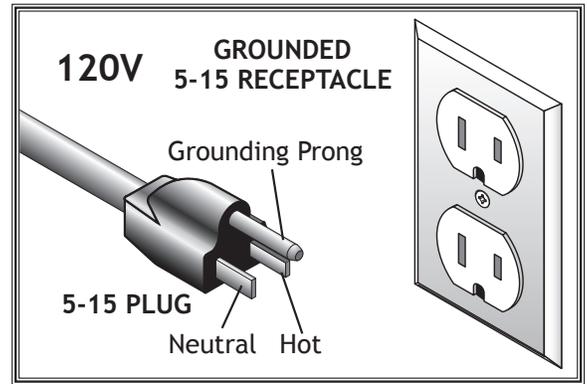
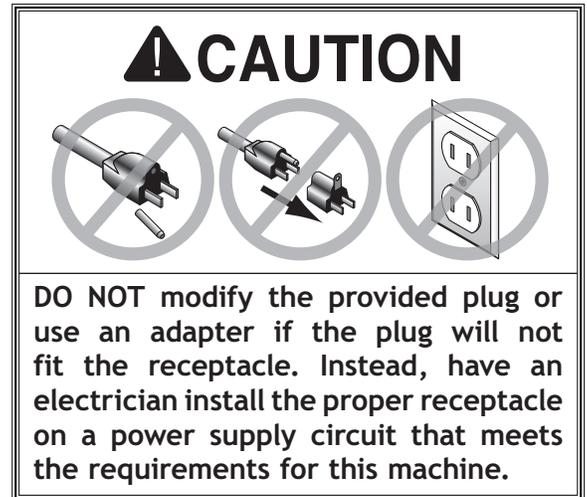


Figure 2. NEMA 5-15 plug & receptacle.



Extension Cords

We do not recommend using an extension cord with this machine. Extension cords cause voltage drop, which may damage electrical components and shorten motor life. Voltage drop increases with longer extension cords and smaller gauge sizes (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must contain a ground wire, match the required plug and receptacle, and meet the following requirements:

- Minimum Gauge Size at 120V 14 AWG
- Maximum Length (Shorter is Better) 50 ft.

ELECTRICAL

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 W1765. 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.*

Box Inventory (see Figures 3 & 4)	Qty
A. Elbow Joint Assembly	1
B. Power Feeder Assembly	1
C. Arm Assembly	1
D. Column Assembly	1
E. Handle.....	2
F. Crank Arm.....	2
G. Base Bolt Pattern Template.....	1
H. Base Assembly.....	1
I. 26/24-Tooth Change Gear Set.....	1
J. Hex Bolts M10-1.5 x 50 (Not Shown)	4
K. Lock Washers 10mm (Not Shown).....	4

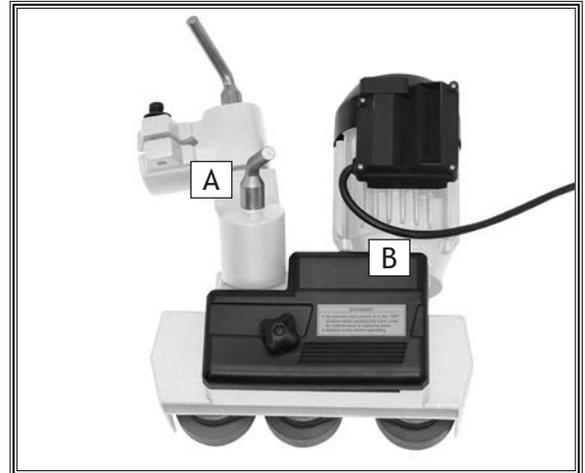
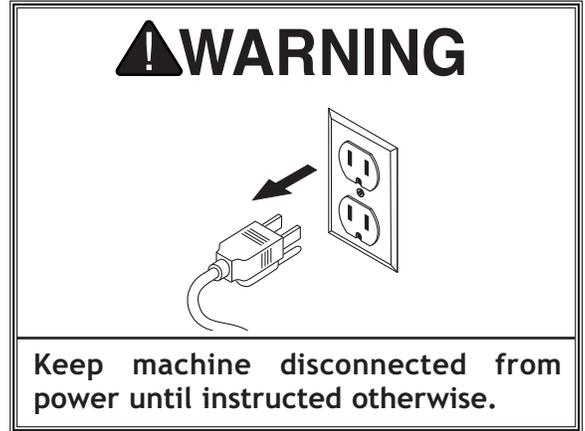


Figure 3. Feeder inventory.

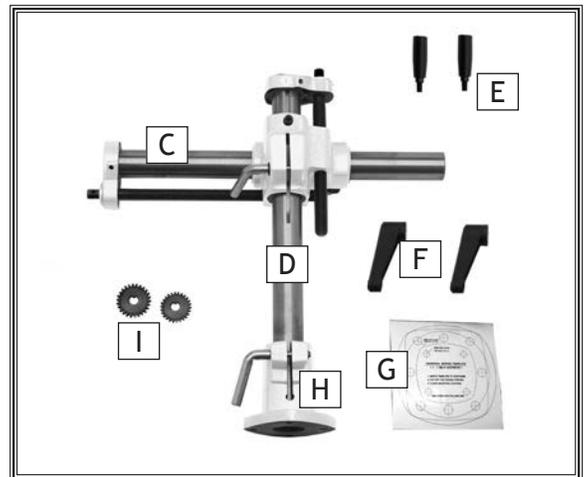


Figure 4. Column and arm inventory.

SETUP

Cleaning Machine

To prevent corrosion during shipment and storage of your machine, the factory has coated the bare metal surfaces of your machine with a heavy-duty rust prevention compound.

If you are unprepared or impatient, this compound can be difficult to remove. To ensure that the removal of this coating is as easy as possible, please gather the correct cleaner, lubricant, and tools listed below:

- Cleaner/degreaser designed to remove storage wax and grease
- Safety glasses & disposable gloves
- Solvent brush or paint brush
- Disposable Rags

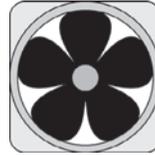
To remove the rust preventative coating, do these steps:

1. DISCONNECT THE MACHINE FROM POWER!
2. Put on safety glasses and disposable gloves.
3. Using a liberal amount of your cleaner/degreaser, Coat all surfaces that have the coating, and let soak for few minutes.
4. Wipe off the surfaces. If your cleaner/degreaser is effective, the coating will wipe off easily.

Tip: To clean off thick coats of the rust preventative compound on flat surfaces, use a PLASTIC paint scraper to scrape off the majority of the coating before wiping it off with your rag. (Do not use a metal scraper or you may scratch your machine.)

5. Repeat the cleaning steps as necessary until all of the compound is removed.
6. To prevent rust on the freshly cleaned surfaces, immediately coat with a quality metal protectant.

⚠ WARNING



Gasoline and petroleum products have low flash points and can explode or cause fire if used to clean machinery. Avoid using these products to clean machinery. Many cleaning solvents are toxic if inhaled. Minimize your risk by only using these products in a well ventilated area.

NOTICE

In a pinch, automotive degreasers, mineral spirits or WD•40 can be used to remove rust preventative coating. Before using these products, though, test them on an inconspicuous area of your paint to make sure they will not damage it.

Assembly

To correctly position this power feeder on your table top, assemble the power feeder first (see **Figure 5**), then refer to **Base Mounting** on **Page 15**. With the power feeder unit completely assembled, it will be easier to determine where on the table top to drill your base mounting holes, so you can take advantage of the full range of power feeder swing and adjustments.

Note: Using the Shop Fox Model D3868 Quick Holder (see **Figure 6**) often is the easiest way to mount your power feeder without having to do any table modifications.

WARNING

You **MUST** assemble all guards, fences, and holdowns before starting your machine or power feeder. Failure to heed this warning could result in serious personal injury.



Figure 5. Assembled power feeder.



Figure 6. Shop Fox D3868 Quick Holder.

SETUP

Base Mounting

Assemble the power feeder before you mount the base to determine where on the table top to drill your base mounting holes, so you can maximize power feeder swing and adjustment options.

There are three mounting options available, **Through Bolt Mounting**, **Direct Mounting**, and **Quick Holder Mounting** options discussed on **Page 15**. Choose an option that suits your requirements.

Your final goal is to be able to use the handcranks and lock levers to position the power feeder wheels so they are parallel with the table surface, and $\frac{1}{8}$ " lower than the thickness of your workpiece.

Also, you must be able to adjust the power feeder so it points towards the machine fence slightly (see **Figure 7**). In other words, the tracking of the power feeder must be *toed-in* approximately 1° to 1.5° degrees toward the machine fence, so the power feeder wheels push the workpiece against the fence slightly during cutting operations.

If cutting long or large stock that is difficult to feed properly, use a featherboard before the powerfeeder (on the infeed side) to maintain even pressure and control of the workpiece against the fence.

SETUP

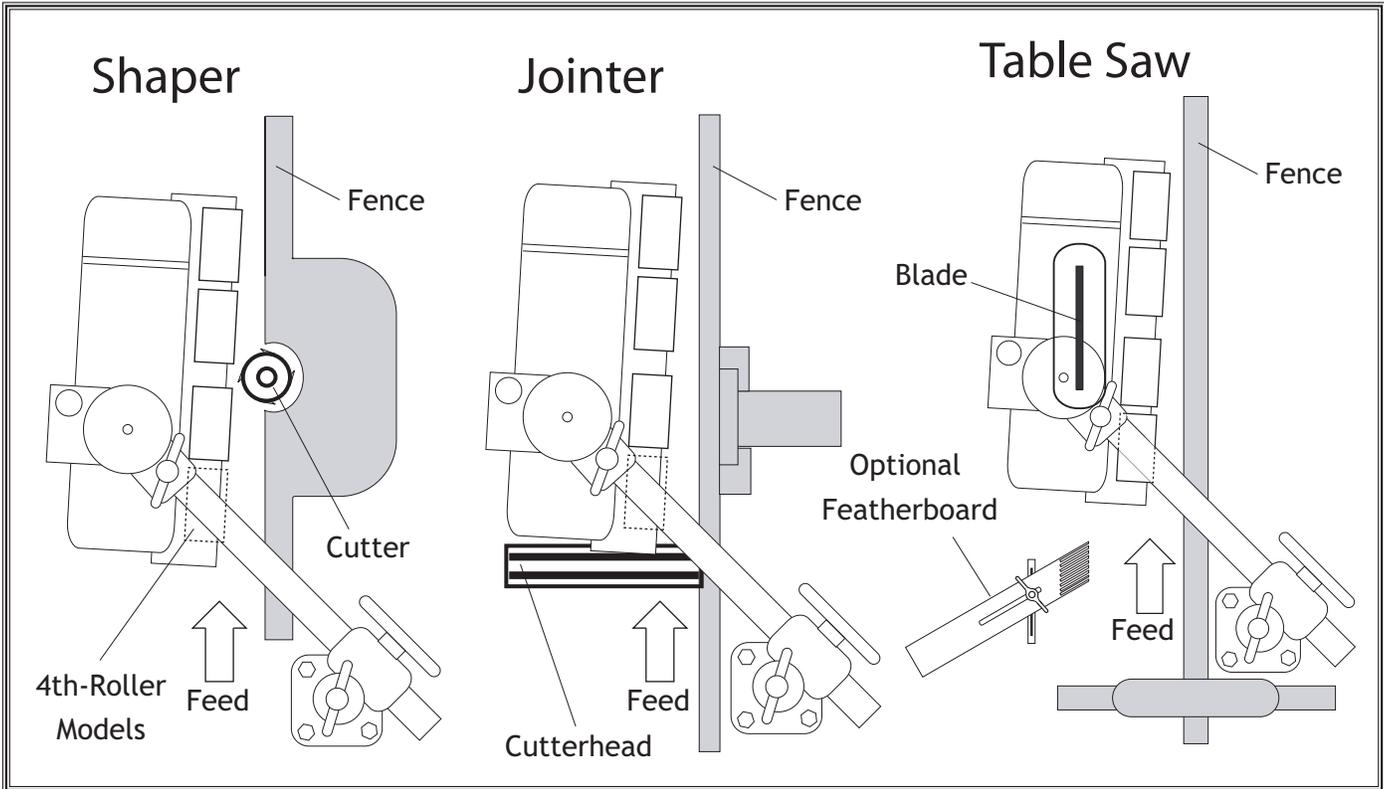


Figure 7. Typical power feed mounting on a shaper, jointer, and table saw.

Continued on next page

Through-Bolt Mounting

We recommend that you mount your new power feeder to the machine table using the included M10-1.5 x 50 hex bolts and lock washers, plus additional flat washers and locking hex nuts for a through-bolt setup (see **Figure 8**). This option will give the most rigidity and clamping strength to prevent the feeder base from twisting out of alignment during use. However, if the included mounting bolt template shows that any under-table support webs will interfere with any washer or nut locations under the table, you will have to use an optional clamping kit, or drill and thread holes directly into the table as described in the **Direct Mount Option** paragraph below.

Direct Mounting

Use the included mounting template to drill and tap your table, so the power feeder base can be directly mounted to the table surface (see **Figure 9**) using the included M10-1.5 x 50 hex bolts and lock washers, plus additional flat washers. If the table is thinner than than $\frac{3}{8}$ " thick where the threaded holes would be drilled and tapped, or if support webbing is in the way, the threads may strip or loosen as the power feeder is used. Thread locking compound will not cure this problem. Revert to the **Through-Bolt Mounting** option or the **Quick Holder Kit Option** if the table is too thin or if support webbing is in the way. In any case, make sure to use a medium-grade liquid thread locking compound on all threads.

Quick Holder Mounting

For temporary or permanent installation of your power feeder without drilling into the table, you can purchase and install the Model D3868 Quick Holder Kit (see **Figure 10**). These kits, while not as rigid as the through-bolt or direct mount options, require no drilling or tapping, and are adequate for most power feeder applications. Make sure to use an automotive-grade liquid thread locking compound on all threads.

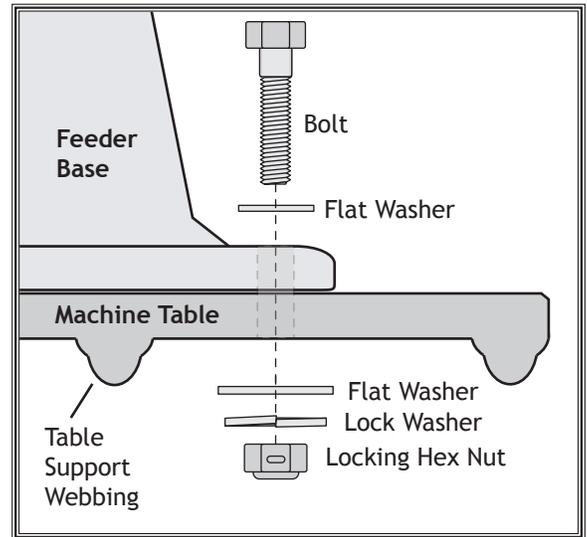


Figure 8. Through-bolt mounting.

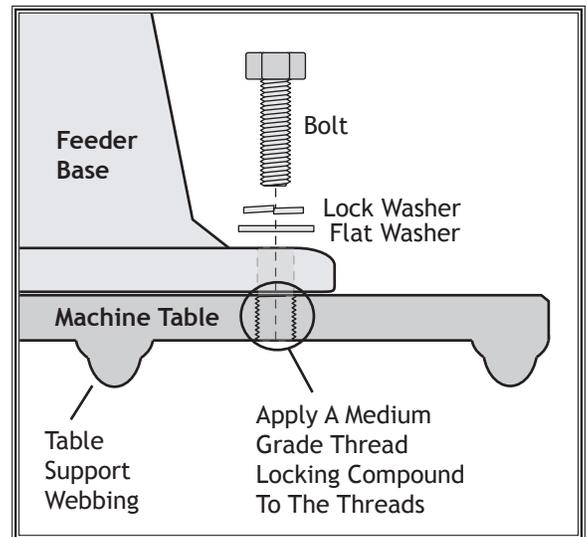


Figure 9. Direct mounting.

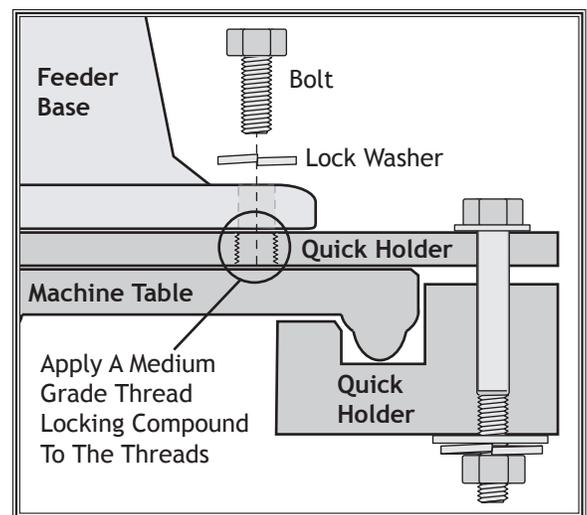


Figure 10. Quick holder mounting.

SETUP

Test Run

Once power feeder assembly is complete and mounted on the table, you must test run your power feeder to make sure it runs properly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the power feeder immediately, then review the **Troubleshooting** table on **Page 23**.

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

To test run the power feeder, do these steps:

1. Read the entire instruction manual first!
2. Make sure all tools and foreign objects have been removed from the tabletop area.
3. Make sure that the power feeder gearbox oil level is full. The oil level should be 1" below the oil fill port. **Note:** See **Figure 1** on **Page 5** for oil fill port location.
4. Ensure that all tools and objects used during set up are cleared away from the machine.
5. Adjust and lock the power feeder so the wheels are held approximately one inch above the table and nothing will interfere with wheel rotation.
6. Connect the power feeder to the power supply and use the feed direction switch (see **Figure 11**) to test operation in both **FOR** and **REV** directions.
 - Listen and watch for abnormal noises or vibrations. The power feeder should run smoothly.
 - Correct for any unusual noises or vibrations before operating the power feeder any further. Always disconnect the power feeder from power when investigating or correcting potential problems.
7. Turn the feed direction switch to **OFF**.

⚠ WARNING

Projectiles thrown from the machine could cause serious eye injury. Wear safety glasses to reduce the risk of injury.

⚠ WARNING

Loose hair and clothing could get caught in machinery and cause serious personal injury. Keep loose clothing rolled up and long hair tied up and away from machinery.

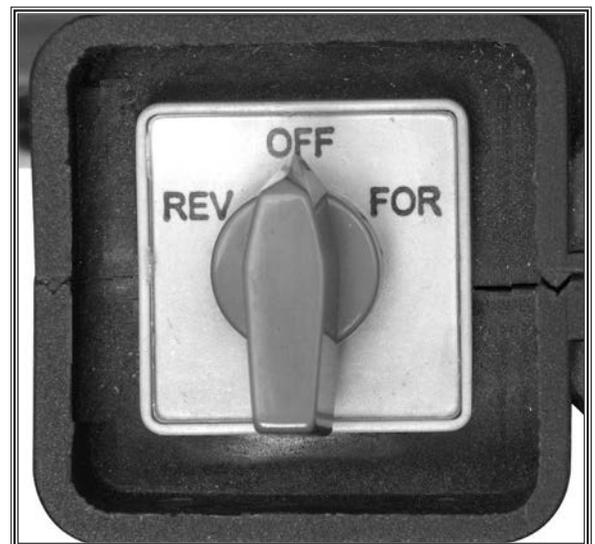


Figure 11. Feed direction switch.

SETUP

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 experience 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 power feeder operator before performing any unfamiliar operations. **Above all, your safety should come first!**

Basic Use and Care

Power feeders reduce kickback hazards and improve cutting results by feeding in a consistent and stable manner. Remember, do not stand in the path of potential kickback. When not in use, support the power feeder with a wooden block so the rubber wheels are raised above the table and do not compress from the weight of the power feeder.

The universal joints on this power feeder allow you to adjust power feeder tracking and height to accommodate many workpiece sizes. Before loosening any lock lever, always support the power feeder with a block of wood, so the power feeder does not drop and cause damage.

Adjust the power feeder so it is toed-in approximately 1° to 1.5° degrees towards the machine fence. This adjustment will ensure the power feeder wheels slightly push the workpiece against the fence during cutting operations (see **Figure 7** on **Page 14**). A featherboard may be used on the infeed side to help feed long or large stock.

Next, adjust the power feeder so the rubber wheels are parallel with the table surface, and are 1/8" lower than the thickness of your workpiece. This adjustment ensures that the workpiece will not slip or hang in the middle of a cut. Always double check that the power feeder wheels are slightly lower than the workpiece before you begin feeding operations. Otherwise, the workpiece may slip and kickback.

! 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!

! 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.

OPERATIONS

Changing Feed Speed

Your power feeder has the option to feed a workpiece at six different feed rates: 13, 20, 26, 33, 43, and 62 feet per minute. These rates are achieved by changing the combination of change gears in the power feeder gear box.

To change the feed rate of your power feeder, do these steps:

1. DISCONNECT THE MACHINE FROM POWER!
2. Make sure the speed dial is pointing to the **OFF** position.
3. Refer to the feed rate chart on the inside of the chain cover (see **Figure 12**) to find the gear combination required for your chosen feed rate.

Installed Change Gears:

- A, 20 Tooth + B, 30 Tooth = 20 Ft (6M)/Per Min
- A, 30 Tooth + B, 20 Tooth = 43 Ft (13M)/Per Min

Included Accessory Change Gears:

- A, 24 Tooth + B, 26 Tooth = 26 Ft (8M)/Per Min
- A, 26 Tooth + B, 24 Tooth = 33 Ft (10M)/Per Min

Optional Model D3869 Slow Speed Kit Gears:

- A, 16 Tooth + B, 34 Tooth = 13 Ft (4M)/Per Min
- A, 34 Tooth + B, 16 Tooth = 62 Ft (19M)/Per Min

4. Remove the chain cover and the two 14mm hex nuts securing the position A & B change gears to the shafts.
5. Swap the required gears in positions A & B shown in **Figure 12**.
6. Reinstall the hex nuts and the chain cover.

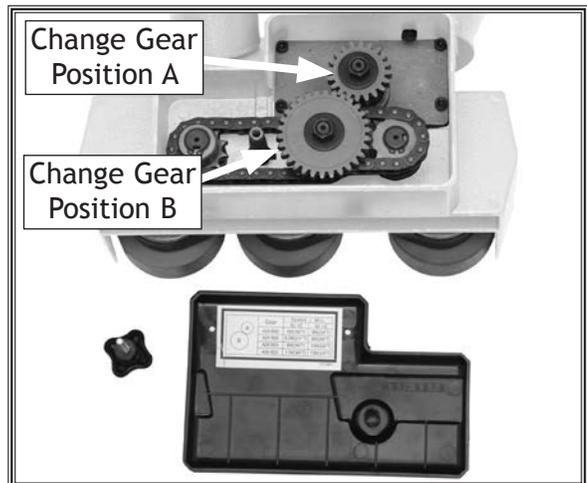
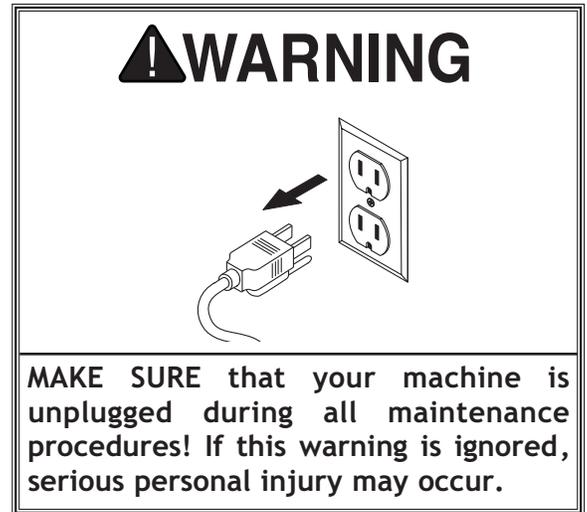


Figure 12. Change gear locations.

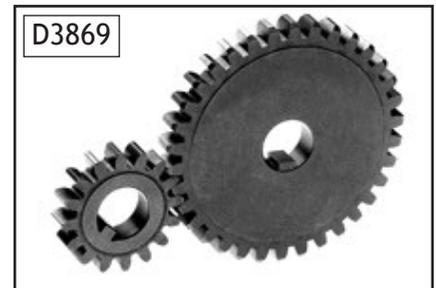
Power Feeder Accessories

The following power feeder 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 Model D3868 Shop Fox Quick Holder Kit is adequate for most power feeder applications, and can be used for permanent or temporary power feeder mounting. This kit requires no drilling or tapping of your machine table.



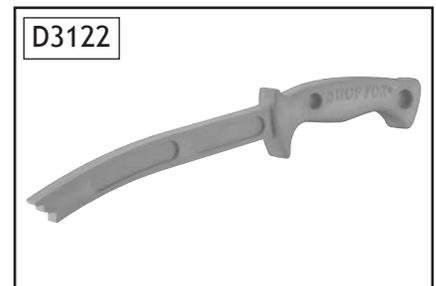
The Model D3869 Shop Fox Slow Speed Kit adds versatility by giving your power feeder two extra feed speeds. If the gearing is installed in the low speed combination, the feed speed will drop to 13 FPM; and if installed in the high speed combination, the feed speed will increase to 62 FPM.



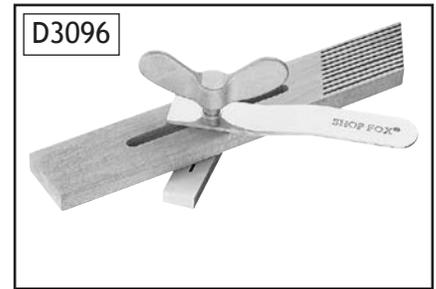
The Model D3871 Extra Roller adds insurance against downtime should a workpiece damage a wheel, or after long use the wheel tire wears out. These wheels can be replaced in a few minutes.



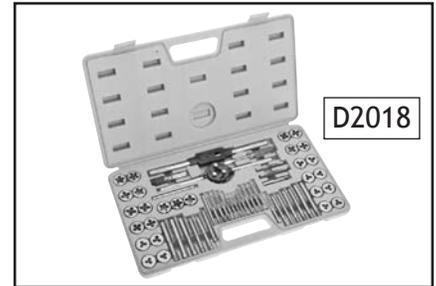
The Model D3122 Push Stick keeps hands a safe distance from blades and cutters while still maintaining control of the workpiece against machine fences. A true necessity when running narrow stock. Durable handle is designed for maximum control. Measures 13¹/₂" overall.



The Model D3096 Shop Fox Featherboard helps reduce the risk of kick-back and achieve consistent results. Designed to lock into standard $\frac{3}{8}$ " x $\frac{3}{4}$ " miter gauge slots, this Featherboard is adjustable for various stock widths and miter slot locations. No drilling or bulky clamp arrangements!



The Model D2018 60-Pc. Tap & Die Set includes both coarse and fine thread tap and dies. Tap and dies are numbered from #4 - 40 to #12 - 24 and fractional taps and dies from $\frac{1}{4}$ " - 28 to $\frac{1}{2}$ " - 20 and $\frac{1}{8}$ " - 27 NPT. Set includes thread gauge, tap handle, die handle and small tap chuck, all in a nice molded case. Also includes metric taps and dies from M3 x .5 to M12 x 1.75. Made of high carbon steel.



The Model D2675 Shop Fox Metal Frame Safety Glasses features a metal band across the top that is not only stylish, but adds strength. This band is linked to the metal ear pieces through a tough hinge. These glasses have a wide field of view and side shields for added protection. Exceeds ANSI Z87.1 - 1989 standards for impact resistance.



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 or replace when necessary:

- Loose mounting bolts and damaged wheel rubber.
- Worn or damaged, switch, cord, and plug.
- Any other condition that could hamper the safe operation of this power feeder.

Cleaning

- Frequently blow-off sawdust with compressed air. This is especially important for the internal working parts and motor. Dust build-up around the motor is a sure way to decrease its life span.
- If the wheels become loaded up with pitch, oil, or other residues, wipe them clean using a clean rag and a mild solvent. Avoid touching the plastic or paint with mineral spirits or you may damage the surfaces.

Lubrication

- To prevent surface rust and binding, periodically clean and oil all lock lever and lead screw threads with a light machine oil.
- After the first 200 hours of use, or after the first month, change the gearbox oil with 3.5 fluid ounces of a good automotive grade 80-90W gear oil. For the remaining life of the power feeder, change the oil every 1000 hours. **Note:** To drain the unit, remove the fill plug labeled "OIL" and invert the power feeder.
- Every 200 hours of use, or after the first month, wipe clean and lubricate the wheel grease fittings (see **Figure 13**) with one pump of a grease gun filled with automotive grade GL-2 grease.
- To prevent rust, binding, and dry spots, paint the sprockets, chain, and change gears (**Figure 14**) with a light film of automotive grade GL-2 grade grease.

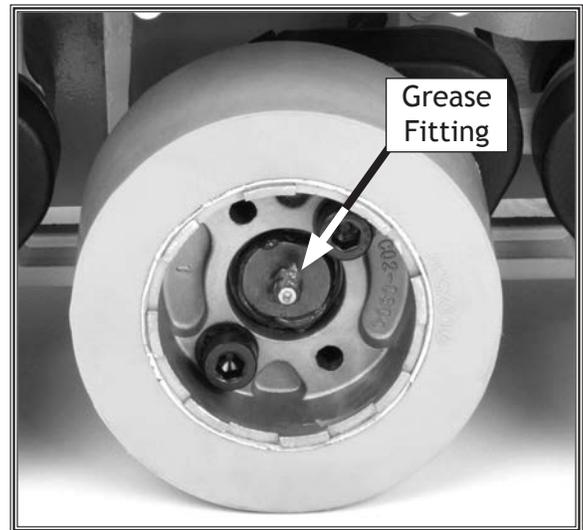
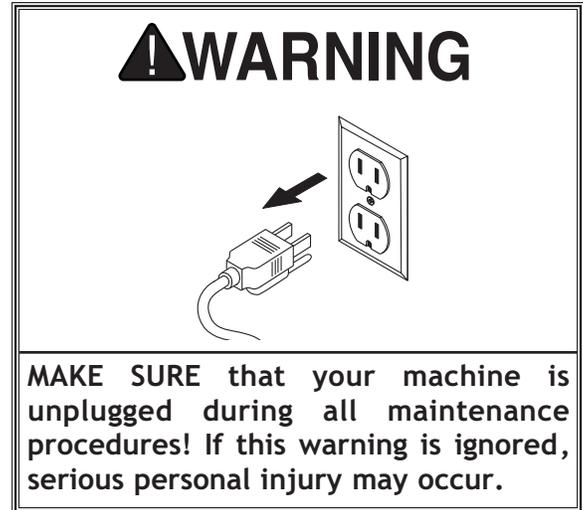


Figure 13. Wheel lubrication.

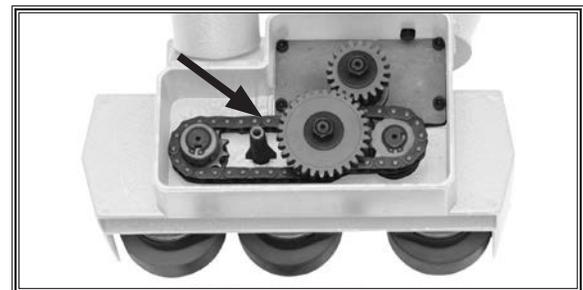


Figure 14. Sprockets, chain, and change gears

MAINTENANCE

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.

Wheel Replacement

If you damage one or more wheels, you can easily replace the wheels.

To replace a wheel, do these steps:

1. DISCONNECT THE MACHINE FROM POWER!
2. Using a 5mm hex wrench, remove the two wheel retaining cap screws (see **Figure 15**).
3. Swap the old wheel with the new.
4. Reinstall the two cap screws, and tighten in an alternating pattern until the wheel is not loose.

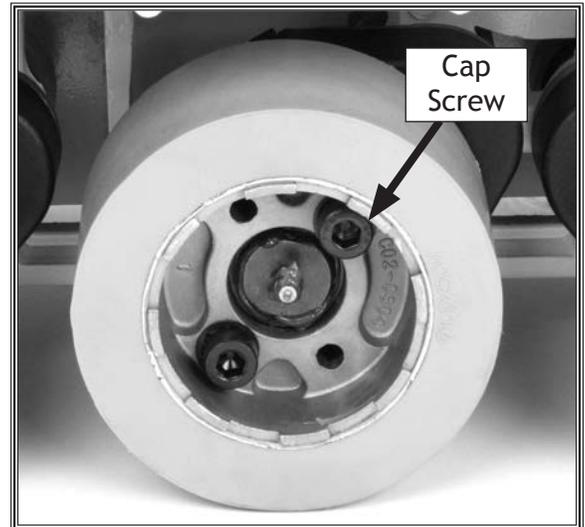
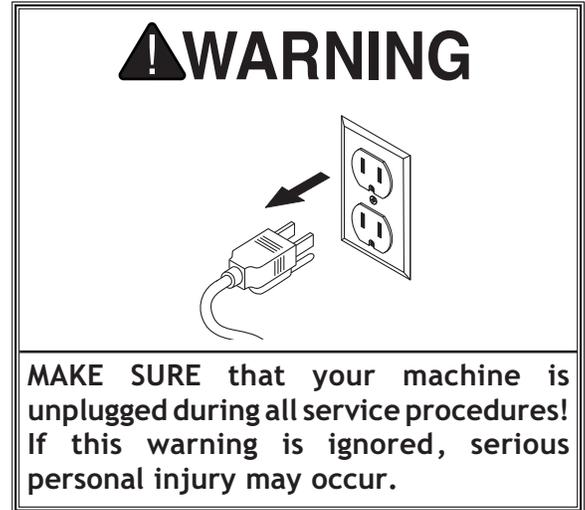
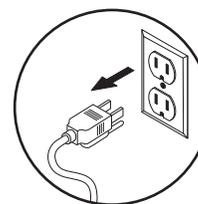


Figure 15. Wheel replacement.

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!

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Motor will not start.	<ol style="list-style-type: none"> 1. Low voltage. 2. Open circuit in motor or loose connections. 3. Faulty start capacitor. 	<ol style="list-style-type: none"> 1. Check power supply for proper voltage. 2. Inspect all lead connections on motor and magnetic switch for loose or open connections. 3. Replace start capacitor.
Fuses or circuit breakers trip open.	<ol style="list-style-type: none"> 1. Short circuit in line cord or plug. 2. Short circuit in motor or loose connections. 3. Incorrect fuses or circuit breakers in power supply. 	<ol style="list-style-type: none"> 1. Inspect cord or plug for damaged insulation and shorted wires and replace extension cord. 2. Inspect all connections on motor for loose or shorted terminals or worn insulation. 3. Install correct fuses or circuit breakers.
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 power feeder feed rate. 2. Clean out motor fan cover to provide normal air circulation.
Workpiece jams when feeding under rollers.	<ol style="list-style-type: none"> 1. Rollers set too low. 2. Feeder at wrong angle. 	<ol style="list-style-type: none"> 1. Raise feeder. 2. Adjust angle.
Workpiece slips while passing beneath rollers	<ol style="list-style-type: none"> 1. Rollers positioned too high, no traction. 2. Feeding too fast, cutter overloads. 3. Rollers are dirty or oily. 4. Worn roller(s). 	<ol style="list-style-type: none"> 1. Lower feeder. 2. Slow feed speed. 3. Clean roller surface with a mild solvent or mineral spirit. 4. Replace roller(s).
Workpiece is burnt.	<ol style="list-style-type: none"> 1. Wrong feed speed. 	<ol style="list-style-type: none"> 1. Adjust feed speed.
Rough finish or chipped grain on workpiece.	<ol style="list-style-type: none"> 1. Feed speed too fast. 2. Dull cutter or blade. 3. Power feeder angle is not toed in as to keep workpiece against the fence. 	<ol style="list-style-type: none"> 1. Slow speed. 2. Replace with sharp cutter or blade. 3. Adjust power feeder so it is toed-in 1° to 1.5° degrees,
Fuzzy grain occurs when planing or moulding.	<ol style="list-style-type: none"> 1. Lumber has high moisture content. 2. Dull knives. 	<ol style="list-style-type: none"> 1. If moisture content is higher than 20%, sticker and allow to dry. 2. Sharpen or replace knives.
Workpiece hangs and does not enter the machine.	<ol style="list-style-type: none"> 1. Power feeder rollers is incorrect. 	<ol style="list-style-type: none"> 1. Lower the power feeder 1/8" lower than the height of the workpiece.

Electrical Safety Instructions

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Study this diagram carefully. If you notice differences between your machine and these wiring diagrams, call Woodstock International Technical Support at (360) 734-3482.

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

QUALIFIED ELECTRICIAN. Due to the inherent hazards of electricity, only a qualified electrician should perform wiring tasks on this machine. If you are not a qualified electrician, get help from one before attempting any kind of wiring job.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components before completing the task.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.

MODIFICATIONS. Using aftermarket parts or modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire.

CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to five minutes after being disconnected from the power source. To avoid being shocked, wait at least this long before working on these components.

ELECTRICAL REQUIREMENTS. You **MUST** follow the electrical requirements at the beginning of this manual when connecting your machine to a power source.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (360) 734-3482.

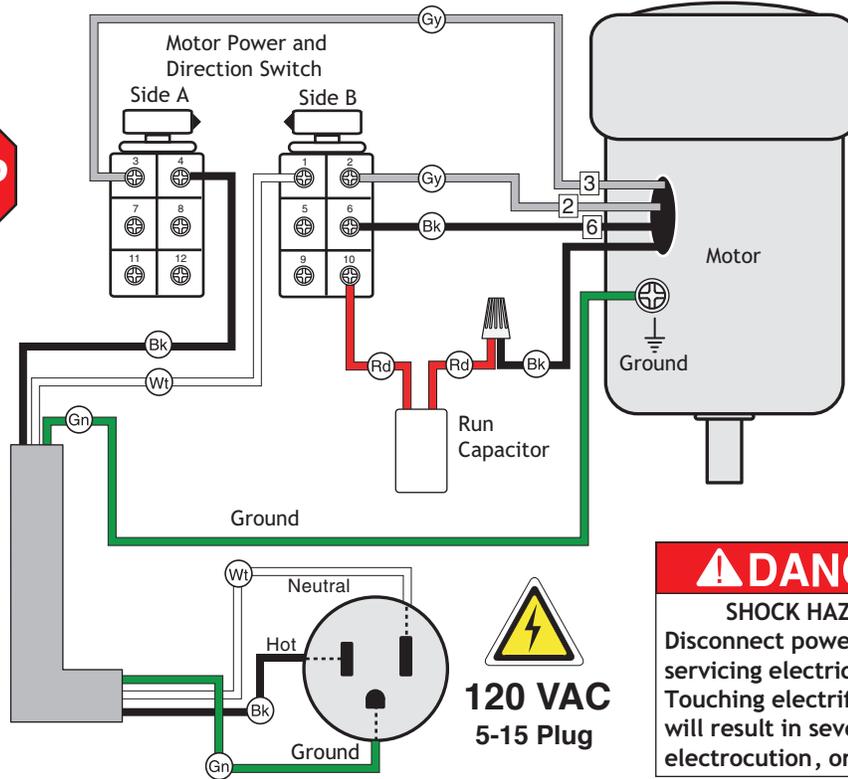
NOTICE

The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.shopfox.biz.

WIRING DIAGRAM COLOR KEY

BLACK	BLUE	YELLOW	LIGHT BLUE
WHITE	BROWN	YELLOW GREEN	BLUE WHITE
GREEN	GRAY	PURPLE	TURQUOISE
RED	ORANGE	PINK	

Wiring Diagram



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

120 VAC
5-15 Plug



Figure 16. Motor capacitor.

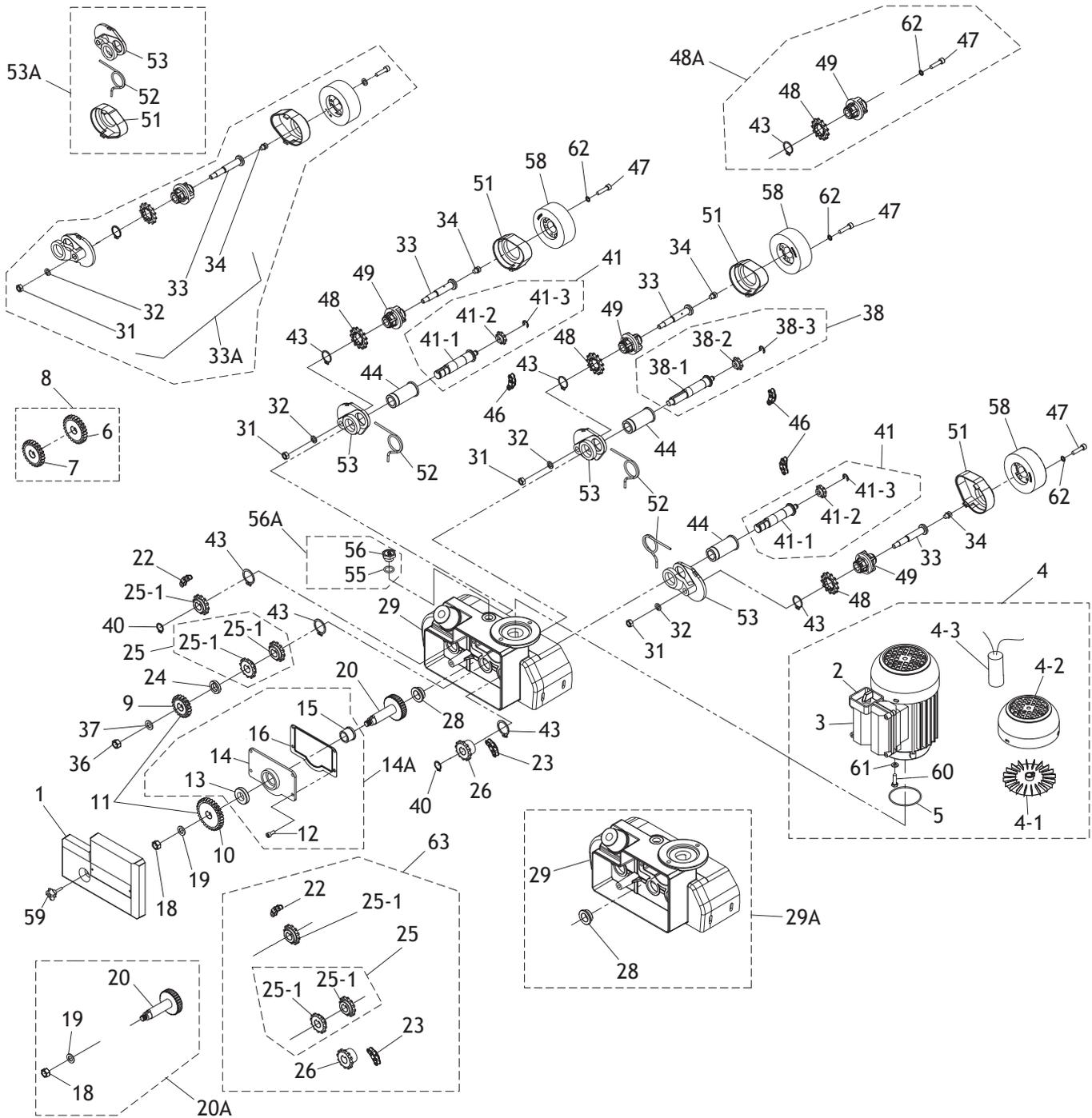


Figure 17. Motor power and direction switch.

SERVICE

PARTS

Main Breakdown

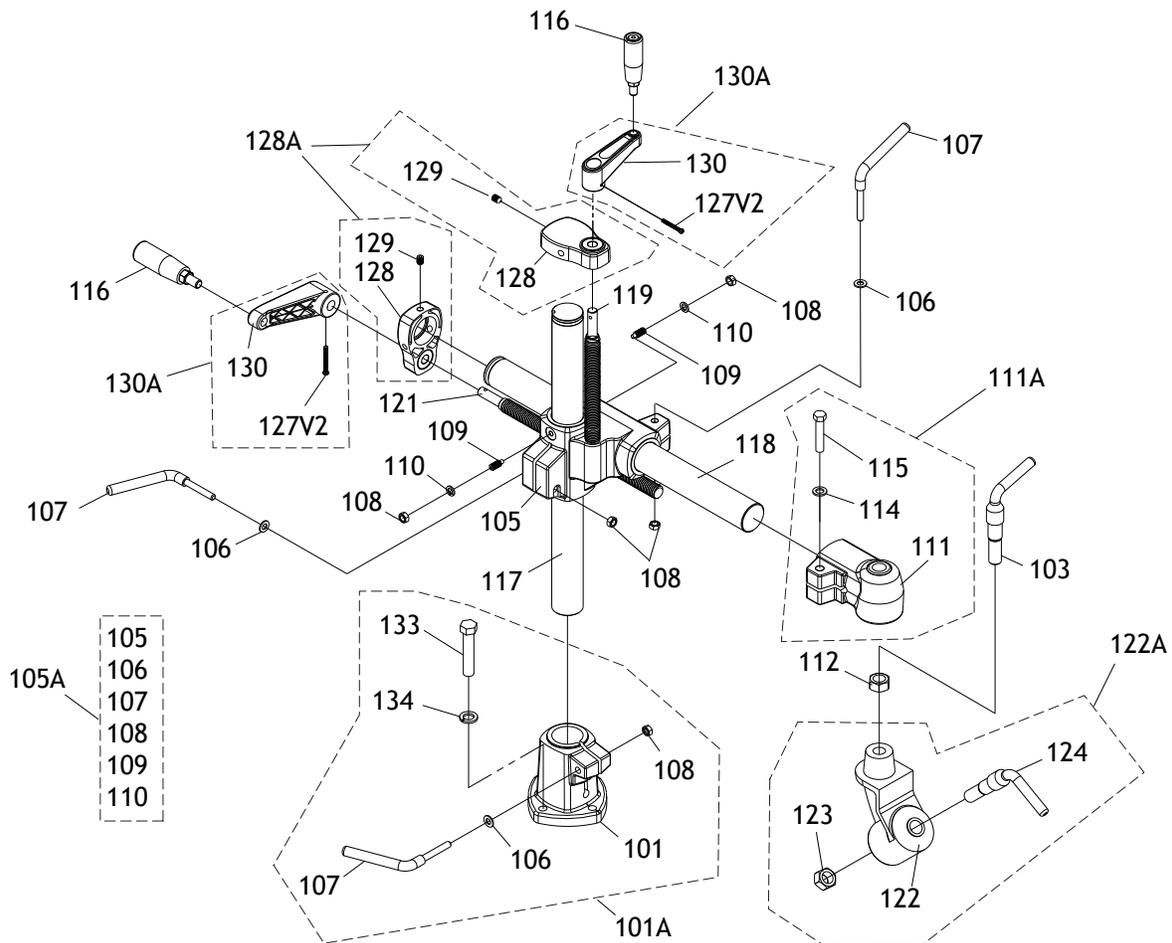


Main Parts List

REF	PART #	DESCRIPTION
1	X1765001	GEAR COVER
2	X1765002	SWITCH ASSEMBLY 1/4HP
3	X1765003	SWITCH BOX ASSEMBLY
4	X1765004	MOTOR 1/4HP 120V 1-PH
4-1	X1765004-1	MOTOR FAN
4-2	X1765004-2	MOTOR FAN COVER
4-3	X1765004-3	R CAPACITOR 20M 250V 1-3/8 X 2
5	X1765005	SEAL 25 X 42 X 7T
6	X1765006	GEAR 24T
7	X1765007	GEAR 26T
8	X1765008	GEAR SET 24T/26T
9	X1765009	GEAR 20T
10	X1765010	GEAR 30T
11	X1765011	GEAR SET 20T/30T
12	X1765012	CAP SCREW M5-.8 X 12
13	X1765013	OIL SEAL 17 X 32 X 7
14A	X1765014A	WORM GEAR BOX COVER ASSEMBLY
14	X1765014	WORM GEAR BOX COVER
15	X1765015	BUSHING 29D X (23D X 15 X 3)
16	X1765016	WORM GEAR BOX COVER GASKET
18	X1765018	HEX NUT M10-1.5
19	X1765019	FLAT WASHER 3/8
20A	X1765020A	WORM GEAR SHAFT ASSEMBLY
20	X1765020	WORM GEAR SHAFT
22	X1765022	CHAIN 30-LINKS
23	X1765023	CHAIN 20-LINKS
24	X1765024	BUSHING
25	X1765025	SPROCKET SET 12T/12T
25-1	X1765025-1	SPROCKET 12T
26	X1765026	SPROCKET 12T
28	X1765028	BUSHING 29 X 37 X (7 + 3)
29A	X1765029A	FRAME ASSEMBLY
29	X1765029	FRAME
31	X1765031	HEX NUT M8-1.25
32	X1765032	LOCK WASHER 8MM

REF	PART #	DESCRIPTION
33A	X1765033A	SPROCKET SHAFT ASSEMBLY
33	X1765033	SPROCKET SHAFT
34	X1765034	GREASE FITTING M6-1 X 5
36	X1765036	HEX NUT M10-1.5
37	X1765037	FLAT WASHER 3/8
38	X1765038	SPROCKET SHAFT ASSY W/THREADS
38-1	X1765038-1	SPROCKET SHAFT W/THREADS
38-2	X1765038-2	SPROCKET 8T
38-3	X1765038-3	E-CLIP 14MM
40	X1765040	EXT RETAINING RING 15MM
41	X1765041	SPROCKET SHAFT ASSY W/O THREADS
41-1	X1765041-1	SPROCKET SHAFT W/O THREADS
41-2	X1765041-2	SPROCKET 8T
41-3	X1765041-3	E-CLIP 14MM
43	X1765043	EXT RETAINING RING 26MM
44	X1765044	TUBE
46	X1765046	CHAIN 18-LINKS
47	X1765047	CAP SCREW M6-1 X 25
48A	X1765048A	ROLLER SPROCKET ASSEMBLY
48	X1765048	ROLLER SPROCKET 13T
49	X1765049	SPROCKET BUSHING
51	X1765051	CASE COVER
52	X1765052	TORSION SPRING 36 X 6
53A	X1765053A	SPROCKET CASE ASSEMBLY
53	X1765053	SPROCKET CASE
55	X1765055	O-RING 11.8 X 2.4 P12
56A	X1765056A	OIL CAP ASSEMBLY
56	X1765056	OIL CAP 16MM
58	X1765058	RUBBER WHEEL 80 X 30
59	X1765059	KNOB BOLT M6-1 X 30
60	X1765060	HEX BOLT M6-1 X 20
61	X1765061	LOCK WASHER 6MM
62	X1765062	FLAT WASHER 6MM
63	X1765063	TRANSMISSION ASSEMBLY

Stand Breakdown



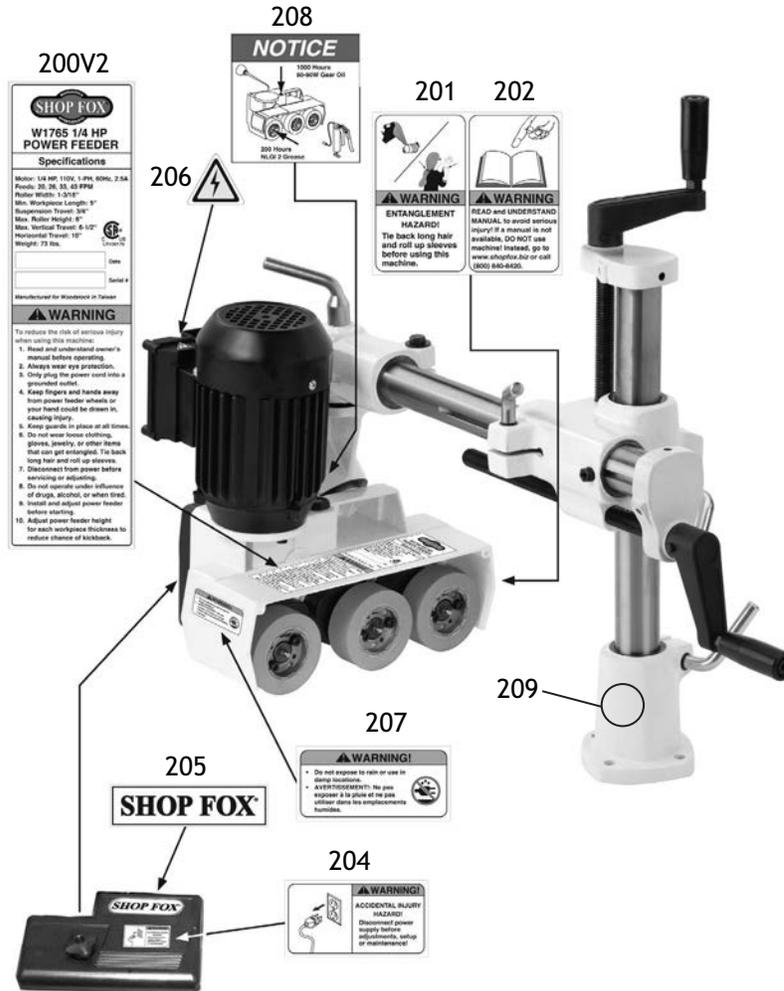
REF	PART #	DESCRIPTION
101A	X1765101A	BASE ASSEMBLY
101	X1765101	BASE
103	X1765103	LEVER M16-2
105A	X1765105A	ELEVATION BRACKET ASSEMBLY
105	X1765105	ELEVATION BRACKET
106	X1765106	FLAT WASHER 8MM
107	X1765107	LEVER M8-1.25
108	X1765108	HEX NUT M8-1.25
109	X1765109	SET SCREW M8-1.25 X 20 DOG-PT
110	X1765110	LOCK WASHER 8MM
111A	X1765111A	OVER ARM CONE ASSEMBLY
111	X1765111	OVER ARM CONE
112	X1765112	HEX NUT M16-2
114	X1765114	FLAT WASHER 10MM
115	X1765115	HEX BOLT M10-1.5 X 50
116	X1765116	HANDLE M10-1.5 X 70
117	X1765117	ELEVATION SHAFT

REF	PART #	DESCRIPTION
118	X1765118	OVER ARM SHAFT
119	X1765119	ELEVATION LEADSCREW
120	X1765120	COLUMN CAP
121	X1765121	HORIZONTAL LEADSCREW
122A	X1765122A	SWIVEL CONE ASSEMBLY
122	X1765122	SWIVEL CONE
123	X1765123	HEX NUT M16-2
124	X1765124	LEVER M16-2
127V2	X1765127V2	ROLL PIN 4 X 30
128A	X1765128A	COLUMN CAP ASSEMBLY
128	X1765128	COLUMN CAP
129	X1765129	SET SCREW M8-1.25 X 10
130A	X1765130A	CRANK ASSEMBLY
130	X1765130	CRANK
133	X1765133	HEX BOLT M10-1.5 X 50
134	X1765134	LOCK WASHER 10MM

Labels & Cosmetics

⚠️ WARNING

Safety labels warn about machine hazards and how to prevent serious personal 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 machine to be operated again. Contact us at (360) 734-3482 or www.shopfoxtools.com to order new labels.



REF	PART #	DESCRIPTION
200V2	X1765200V2	MACHINE ID LABEL CSA V2.10.12
201	X1765201	ENTANGLEMENT LABEL
202	X1765202	READ MANUAL LABEL
203	X1765203	GENERAL WARNING LABEL
204	X1765204	DISCONNECT POWER LABEL

REF	PART #	DESCRIPTION
205	X1765205	SHOP FOX LOGO LABEL
206	X1765206	ELECTRICITY LABEL 0.7W X 0.6H
207	X1765207	DAMPNESS WARNING LABEL
208	X1765208	LUBRICATION NOTICE LABEL
209	X1765209	SHOP FOX WHITE TOUCH-UP PAINT

Notes



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.

- How did you learn about us?

<input type="checkbox"/> Advertisement	<input type="checkbox"/> Friend	<input type="checkbox"/> Local Store
<input type="checkbox"/> Mail Order Catalog	<input type="checkbox"/> Website	<input type="checkbox"/> Other:
- How long have you been a woodworker/metalworker?

<input type="checkbox"/> 0-2 Years	<input type="checkbox"/> 2-8 Years	<input type="checkbox"/> 8-20 Years	<input type="checkbox"/> 20+ Years
------------------------------------	------------------------------------	-------------------------------------	------------------------------------
- How many of your machines or tools are Shop Fox?

<input type="checkbox"/> 0-2	<input type="checkbox"/> 3-5	<input type="checkbox"/> 6-9	<input type="checkbox"/> 10+
------------------------------	------------------------------	------------------------------	------------------------------
- Do you think your machine represents a good value? Yes No
- Would you recommend Shop Fox products to a friend? Yes No
- What is your age group?

<input type="checkbox"/> 20-29	<input type="checkbox"/> 30-39	<input type="checkbox"/> 40-49
<input type="checkbox"/> 50-59	<input type="checkbox"/> 60-69	<input type="checkbox"/> 70+
- What is your annual household income?

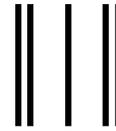
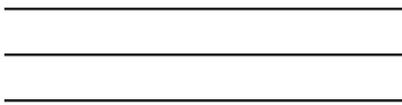
<input type="checkbox"/> \$20,000-\$29,000	<input type="checkbox"/> \$30,000-\$39,000	<input type="checkbox"/> \$40,000-\$49,000
<input type="checkbox"/> \$50,000-\$59,000	<input type="checkbox"/> \$60,000-\$69,000	<input type="checkbox"/> \$70,000+
- Which of the following magazines do you subscribe 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

WARRANTY

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

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

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

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



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