

Model W1742H 15" Planer w/Mobile Base and Helical Cutterhead Manual Insert



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

The Model W1742H is the same as the Model W1742, except it has a helical cutterhead. Besides differences noted in this insert, the content in the Model W1742 owner's manual is the same for both machines. Before operating your new machine, you **MUST** read and understand this insert and the entire Model W1742 manual to reduce the risk of injury from improper use or setup.

If you have any further questions about this manual insert or the differences between the Model W1742H and the Model W1742, contact our Technical Support at (360) 734-3482 or email techsupport@woodstockint.com.



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Printed in China



MACHINE SPECIFICATIONS



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MODEL W1742H 15" PLANER WITH MOBILE BASE AND HELICAL CUTTERHEAD

Product Dimensions

Weight..... 600 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 42 x 32-1/2 x 46 in.
 Footprint (Length x Width)..... 22-1/2 x 22 in.

Shipping Dimensions

Type..... Wood Crate
 Content..... Machine
 Weight..... 667 lbs.
 Length x Width x Height..... 30 x 36 x 47 in.

Electrical

Power Requirement..... 240V, Single-Phase, 60 Hz
 Full-Load Current Rating..... 15A
 Minimum Circuit Size..... 20A
 Connection Type..... Cord & Plug
 Power Cord Included..... Yes
 Power Cord Length..... 6 ft.
 Power Cord Gauge..... 12 AWG
 Plug Included..... Yes
 Included Plug Type..... 6-20
 Switch Type..... Magnetic Switch w/Overload Protection

Motors

Main

Horsepower..... 3 HP
 Phase..... Single-Phase
 Amps..... 15A
 Speed..... 3450 RPM
 Type..... TEFC Capacitor-Start Induction
 Power Transfer Triple V-Belt Drive
 Bearings..... Sealed & Permanently Lubricated
 Centrifugal Switch/Contacts Type..... External

Main Specifications

Main Specifications

Max. Cut Width.....	15 in.
Max. Cut Height.....	8 in.
Min. Stock Length.....	8 in.
Min. Stock Thickness.....	3/16 in.
Max. Stock Thickness.....	8 in.
Number of Cuts Per Inch.....	104, 56
Number of Cuts Per Minute.....	20,000
Cutterhead Speed.....	4800 RPM
Planing Feed Rate.....	16, 30 FPM
Max. Cut Depth Planing Full Width.....	3/32 in.
Max. Cut Depth Planing 6-Inch Wide Board.....	1/8 in.

Cutterhead Info

Cutterhead Type.....	Helical
Cutterhead Diameter	3 in.
Number of Cutter Rows.....	5
Number of Indexable Cutters.....	75
Cutter Insert Type.....	Indexable Carbide
Cutter Insert Size Length.....	15mm
Cutter Insert Size Width.....	15mm
Cutter Insert Size Thickness.....	2.5mm

Table Info

Table/Headstock Movement.....	8 in.
Table Bed Size Length.....	20 in.
Table Bed Size Width.....	15 in.
Table Bed Size Thickness.....	1-3/4 in.
Number of Bed Rollers.....	2
Floor-to-Table Height.....	27 - 35 in.
Roller Ext. Table Size Length.....	42 in.
Roller Ext. Table Size Width.....	15 in.
Roller Ext. Table Size Thickness.....	1-3/4 in.

Construction

Table.....	Precision-Ground Cast Iron
Body.....	Cast Iron
Stand.....	Steel
Cutterhead Assembly.....	Steel
Infeed Roller.....	Serrated Steel
Outfeed Roller.....	Rubber
Paint Type/Finish.....	Powder Coated

Other

Table/Headstock Locks.....	Yes
Measurement Scale.....	Inch & Metric
Number of Dust Ports.....	1
Dust Port Size.....	4 in.
Mobile Base.....	Built-In



Other

Country of Origin	China
Warranty	2 Years
Approximate Assembly & Setup Time	30 Minutes
Serial Number Location	ID Label
Certified by a Nationally Recognized Testing Laboratory (NRTL)	Yes

Features

- Helical Cutterhead with 75 Indexable Carbide Inserts
- Built-In, Easy-to-Use Mobile Base
- Chip Breaker & Pressure Bar
- Precision-Ground Cast-Iron Extension Wings
- Pedestal-Mounted Control Switch
- Inch and Metric Measurement Table Elevation Scale
- Two Adjustable Bed Rollers
- Top-Mounted Board Return Rollers
- Four-Column Support with Positive Table Locks
- Two-Speed Automatic Board Feed

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 Planers

Amputation, serious cuts, entanglement, or death can occur from contact with rotating cutterhead or other moving parts! Flying chips can cause eye injuries or blindness. Workpieces or knives thrown by cutterhead can strike nearby operator or bystanders with deadly force. To reduce risk of these hazards, operator and bystanders **MUST** completely heed hazards and warnings below.

KICKBACK. Know how to reduce the risk of kickback and kickback-related injuries. “Kickback” occurs during operation when the workpiece is ejected from the machine at high speed. Kickback is commonly caused by poor workpiece selection, unsafe feeding techniques, or improper machine setup/maintenance. Kickback injuries typically occur as follows: (1) operator/bystanders are struck by the workpiece, resulting in impact injuries (i.e., blindness, broken bones, bruises, death); (2) operator’s hands are pulled into blade, resulting in amputation or severe lacerations.

AVOID CONTACT WITH MOVING PARTS. Never remove guards/covers or reach inside the planer during operation or while connected to power. You could be seriously injured if you accidentally touch the spinning cutterhead or get entangled in moving parts. If a workpiece becomes stuck or sawdust removal is necessary, turn planer **OFF** and disconnect power before clearing.

DULL/DAMAGED KNIVES/INSERTS. Only use sharp, undamaged knives/inserts. Dull or damaged knives/inserts increase the risk of kickback.

INSPECTING STOCK. To reduce the risk of kickback injuries or machine damage, thoroughly inspect and prepare the workpiece before cutting. Verify workpiece is free of nails, staples, loose knots or foreign material. Workpieces with minor warping should be jointed first or planed with the cupped side facing the table.

BODY PLACEMENT. Stand to one side of planer during the entire operation to avoid getting hit if kickback occurs.

GRAIN DIRECTION. Planing across the grain is hard on the planer and may cause kickback. Plane in the same direction or at a slight angle with the wood grain.

PLANING CORRECT MATERIAL. Only plane natural wood stock with this planer. **DO NOT** plane MDF, OSB, plywood, laminates or other synthetic materials that can break up inside the planer and be ejected towards operator.

LOOKING INSIDE PLANER. Wood chips fly around inside the planer at a high rate of speed during operation. To avoid injury from flying material, **DO NOT** look inside planer during operation.

CUTTING LIMITATIONS. To reduce the risk of kickback hazards or damage to the machine, do not exceed the maximum depth of cut or minimum board length and thickness found in the **Data Sheet**. Only feed one board at a time.

INFEED ROLLER CLEARANCE. The infeed roller is designed to pull material into the spinning cutterhead. To reduce the risk of entanglement, keep hands, clothing, jewelry, and long hair away from the infeed roller during operation.

FEED WORKPIECE PROPERLY. To reduce the risk of kickback, never start planer with workpiece touching cutterhead. Allow cutterhead to reach full speed before feeding, and do not change feed speed during cutting operation.

WORKPIECE SUPPORT. To reduce the risk of kickback, always make sure workpiece can move completely across table without rocking or tipping. Use auxiliary support stands for long stock.

SECURE KNIVES/INSERTS. Loose knives or improperly set inserts can become dangerous projectiles or cause machine damage. Always verify knives/inserts are secure and properly adjusted before operation.

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 240V 15 Amps

Circuit Requirements for 240V

This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage..... 208V, 220V, 230V, 240V
 Cycle.....60 Hz
 Phase 1-Phase
 Power Supply Circuit..... 20 Amps
 Plug/Receptacle NEMA 6-20

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.

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 240V Connection

The power cord and plug specified under "Circuit Requirements for 240V" on the previous page has an equipment-grounding wire and a grounding prong. The plug must only be inserted into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances (see figure).

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 240V 12 AWG
- Maximum Length (Shorter is Better) 50 ft.

⚠ 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.

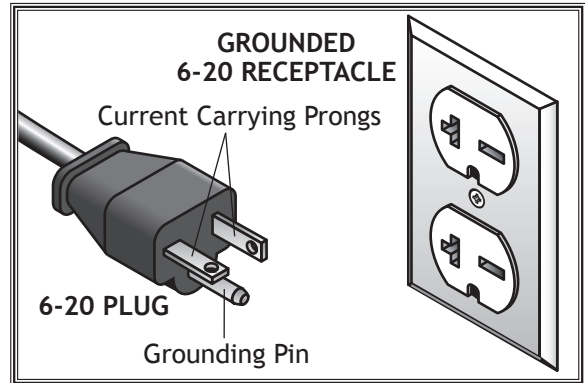


Figure 1. NEMA 6-20 plug & receptacle.

⚠ CAUTION

No adapter should be used with the required plug. If the plug does not fit the available receptacle or the machine must be reconnected to a different type of circuit, the reconnection must be made by an electrician or qualified service personnel and it must comply with all local codes and ordinances.

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

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

Box Inventory (Figure 2)	Qty
A. Planer	1
B. Dust Hood.....	1
C. Caster Assembly	1
D. Foot Lifting Lever and Pin	1
E. Handwheel and Handle	1
F. Extension Wings.....	2

Tools & Spare Inserts (Figure 3)	Qty
G. L-Wrench Torx T-20.....	2
H. Driver Bit Torx T-20	2
I. Indexable Inserts 15 x 15 x 2.5mm	5
J. Flat Head Torx Screws T20 M6-1 x 15	3
K. Hex Wrenches 2.5, 3, 4, 6mm.....	1 Ea.
L. Open-End Wrenches 8/10, 14/17, 17/19mm.....	1 Ea.

Hardware (Not Shown)	Qty
• Flat Washers 8mm (Wing)	6
• Lock Washers 8mm (Wing)	6
• Hex Bolts M8-1.25 x 30 (Wing)	6
• Set Screws M8-1.25 x 20 (Wing).....	4
• Cap Screws M8-1.25 x 20 (Dust Hood)	3
• Hex Bolts M6-1 x 10 (Dust Hood).....	3
• Flat Washers 6mm (Dust Hood)	6
• Hex Nuts M6-1 (Dust Hood)	3
• Key 4 x 4 x 20 (Handwheel).....	1
• Bushing (Handwheel).....	1
• Hex Nut M12-1.75 (Handwheel)	1
• Flat Washer 12mm (Handwheel)	1

NOTICE

When ordering replacement parts, refer to the parts list and diagram in the back of the manual.

NOTICE

Some hardware/fasteners on the inventory list may arrive pre-installed on the machine. Check these locations before assuming that any items from the inventory list are missing.

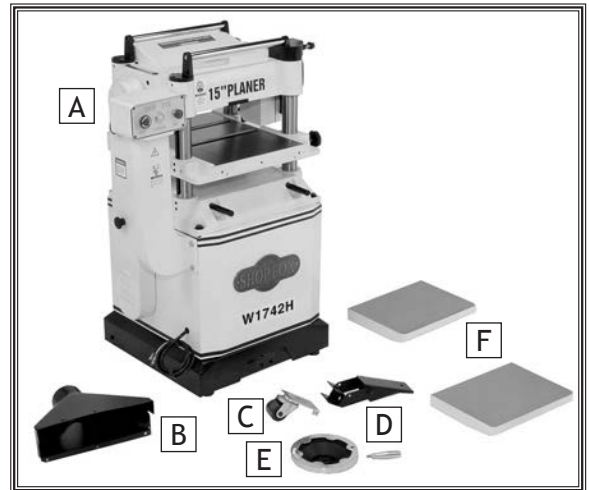


Figure 2. Inventory.

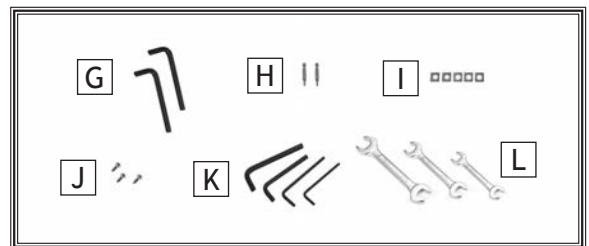


Figure 3. Tool and spare inserts inventory.

Dust Hood

The dust hood included should only be installed if you plan on hooking your planer up to a dust collection system.

To install the dust hood, do these steps:

1. Secure the top of the dust hood with (3) M6-1 x 10 hex bolts, (6) 6mm flat washers, and (3) M6-1 hex nuts (see **Figure 4**).
2. Secure bottom of dust hood with (3) M8-1.25 x 20 cap screws (see **Figure 4**).

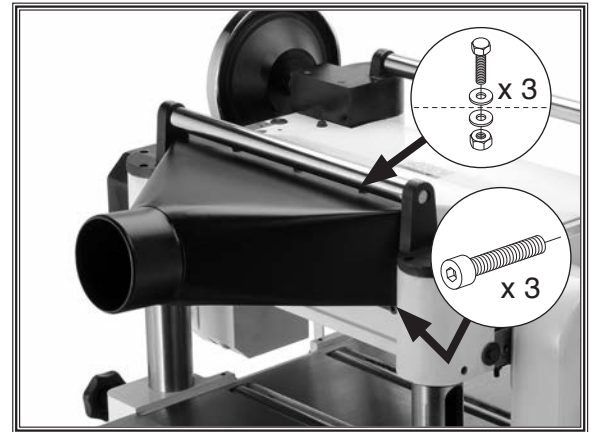


Figure 4. Dust hood installed.

Test Run

Once assembly is complete, test run the machine to ensure it is properly connected to power and safety components are functioning properly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from power, and fix the problem BEFORE operating the machine again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

The Test Run consists of verifying the following: 1) The motor powers up and runs correctly, and 2) the STOP/ reset button safety feature functions properly.

To test run machine, do these steps:

1. Clear all setup tools and loose objects away from machine.
2. Push STOP button in.
3. Connect machine to power supply.
4. Twist STOP button clockwise until it springs out (see **Figure 5**). This resets the switch so the machine can start.
5. Press START button to turn machine **ON**. Verify motor starts up and runs smoothly without any unusual problems or noises.
6. Press STOP button to turn machine **OFF**.
7. WITHOUT resetting STOP button, try to start machine by pressing the START button. The machine should not start.

- If the machine *does not* start, the STOP button safety feature is working correctly. Congratulations! Test Run is complete.
- If the machine *does* start with the STOP button pushed in, immediately disconnect power to the machine. The STOP button safety feature is not working correctly and must be replaced before further using the machine. Call Tech Support for help.

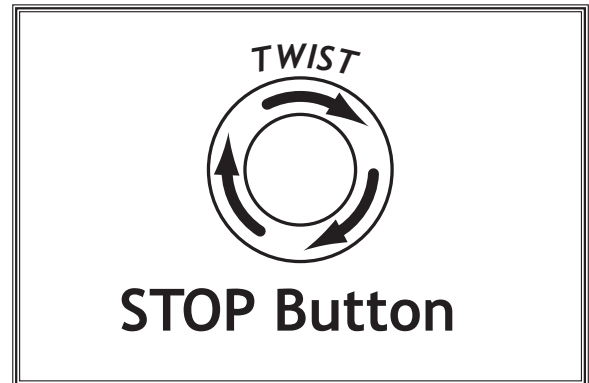


Figure 5. Resetting the switch.

MAINTENANCE

Rotating/Replacing Cutterhead Inserts

The helical cutterhead is equipped with indexable carbide inserts that can be rotated to reveal any one of its four cutting edges. If one edge of the insert becomes dull or damaged, simply rotate it 90° to reveal a fresh cutting edge.

Items Needed	Qty
Phillips Screwdriver #2.....	1
Torque Wrench	1
T-20 Torx Bit	1
Heavy Leather Gloves.....	1 Pair
Light Machine Oil	As Needed

To rotate or replace a helical cutterhead insert, do these steps:

1. DISCONNECT MACHINE FROM POWER!
2. Remove top cover and belt cover.
3. Rotate cutterhead pulley to provide access to insert(s) to be rotated/replaced.
4. Put on heavy leather gloved to protect fingers and hands.
5. Remove any sawdust or debris from head of insert, Torx screw, and surrounding area (see **Figure 6**).

⚠ CAUTION

The carbide inserts are very sharp and can quickly cut your hands. **ALWAYS** use caution and heavy leather gloves when handling these parts to reduce the risk of personal injury.

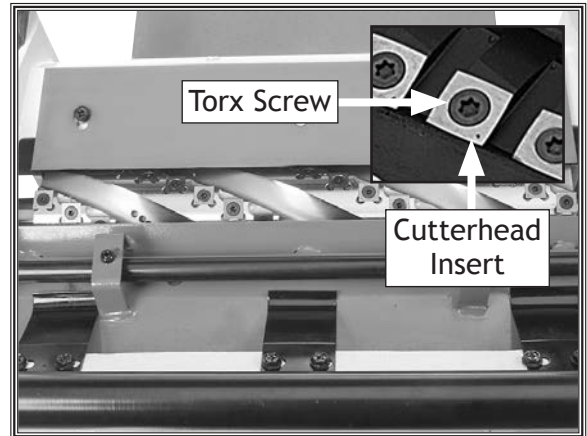


Figure 6. Insert and Torx screw location.

6. Remove Torx screw and insert (see **Figure 7**), then clean all dust and debris from both parts and cutterhead pocket.

Note: *Proper cleaning of insert, Torx screw, and cutterhead pocket is critical to achieving a smooth finish. Dirt or dust trapped between insert and cutterhead will raise insert, and make marks on your workpiece when planing.*

Tip: *Use low-pressure compressed air or a vacuum nozzle to clean out cutterhead pocket.*

7. Rotate insert 90° and install so that a fresh cutting edge faces outward (see **Figure 8**).
 - When all four insert cutting edges have been used, replace insert with a new one. Always position new insert reference dot in same position to aid in rotational sequencing.
8. Lubricate Torx screw threads with a very small amount of light machine oil, wipe excess off, and torque screw to 50-55 inch/pounds.

Note: *If too much oil is applied to the threads, excess oil will attempt to squeeze out of the threaded hole and raise insert during installation, bringing it out of height alignment.*

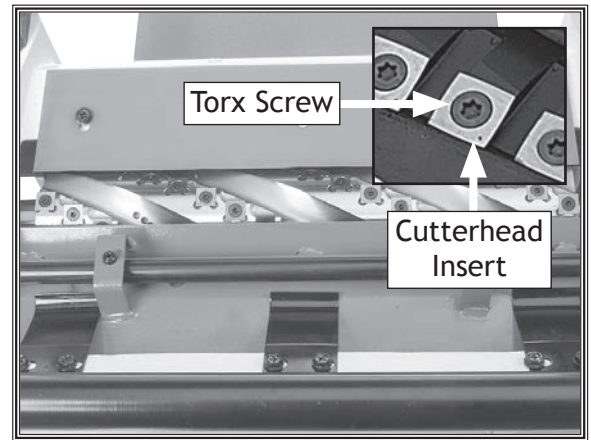


Figure 7. Insert and Torx screw location.

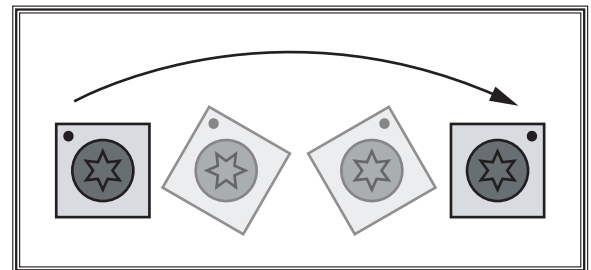


Figure 8. Rotation of insert to reveal fresh cutting edge.

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. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (360) 734-3482 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.

WARNING

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.

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.

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.

CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

CIRCUIT REQUIREMENTS. You MUST follow the 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.

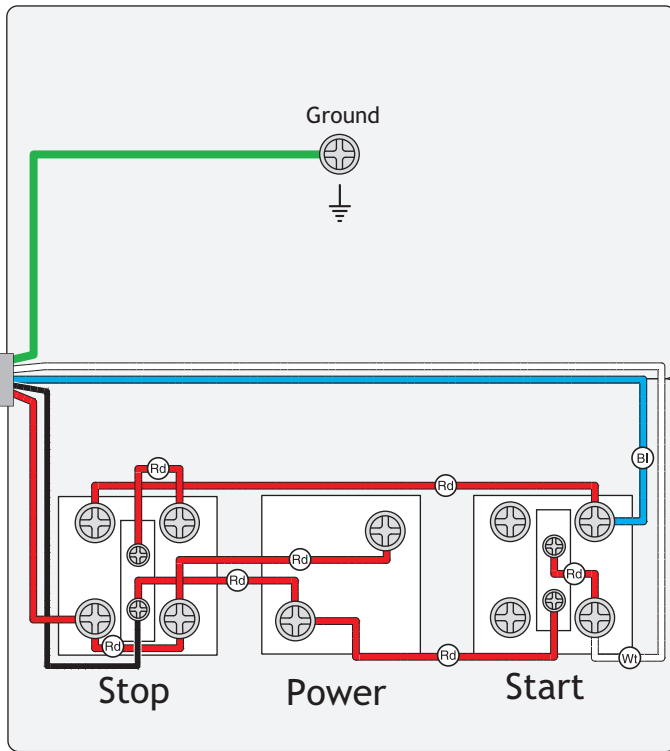
WIRING DIAGRAM COLOR KEY

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

SERVICE

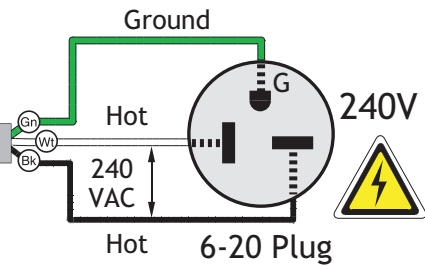
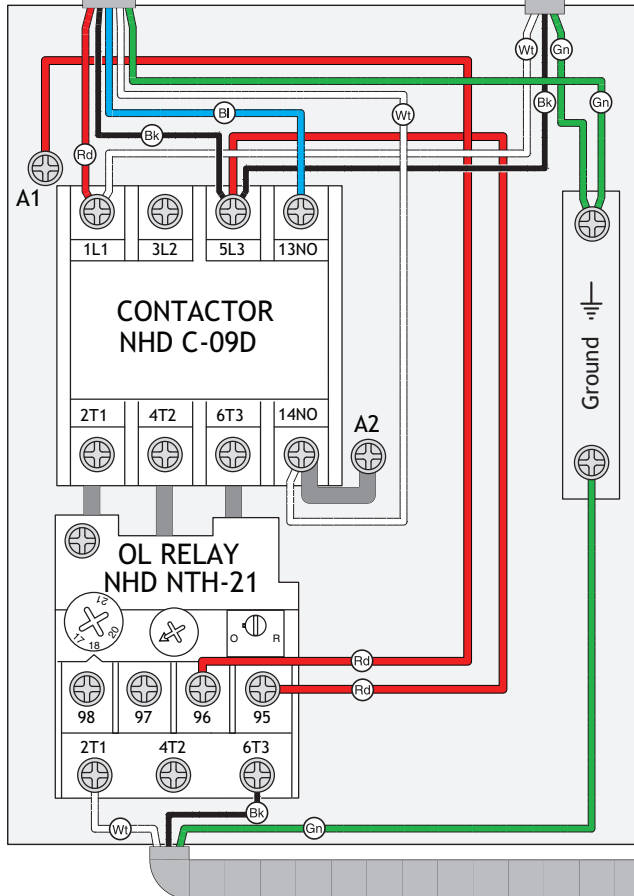
Wiring Diagram

CONTROL PANEL



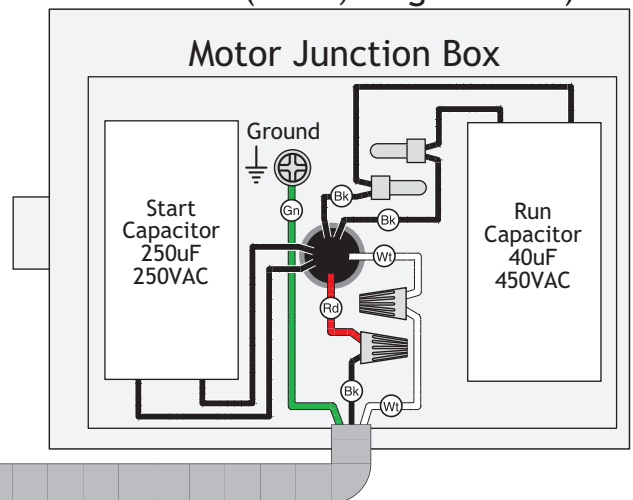
⚠ DANGER
SHOCK HAZARD!
Disconnect power before servicing electrical parts. Touching electrified parts will result in severe burns, electrocution, or death.

MAG SWITCH ASSY



Read Page 15
STOP
Before Wiring

MOTOR (240V, Single-Phase)



SERVICE

Electrical Components

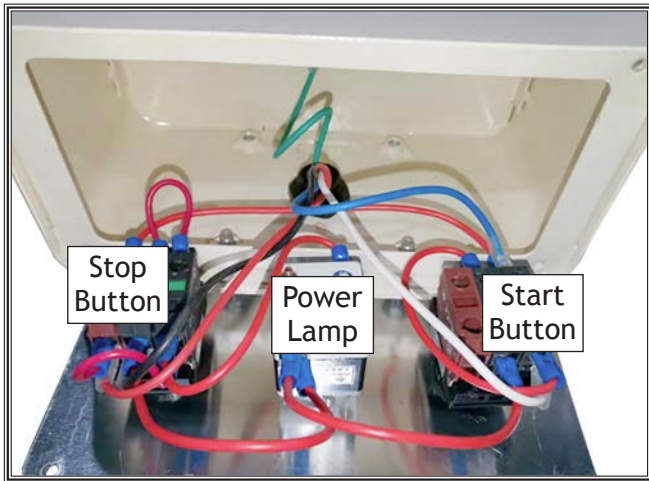


Figure 9. Control panel wiring.

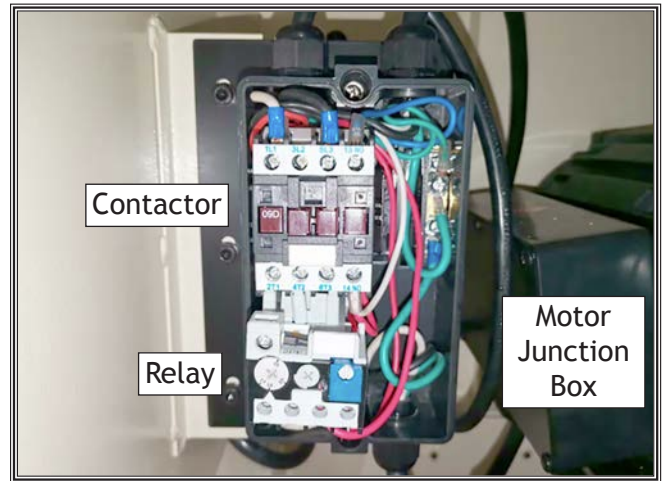


Figure 11. Magnetic switch assembly wiring.

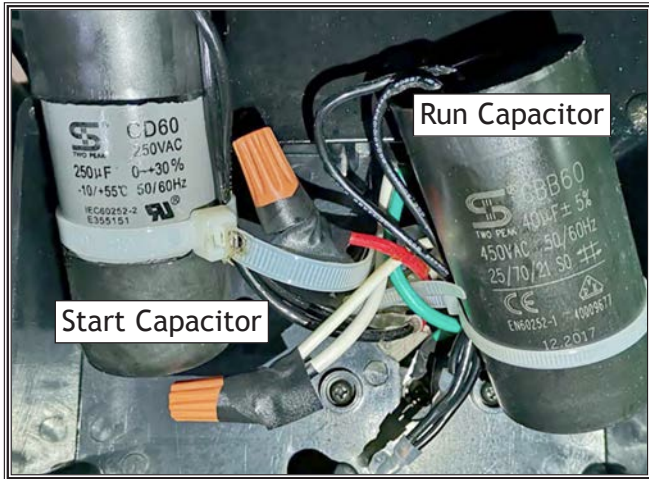
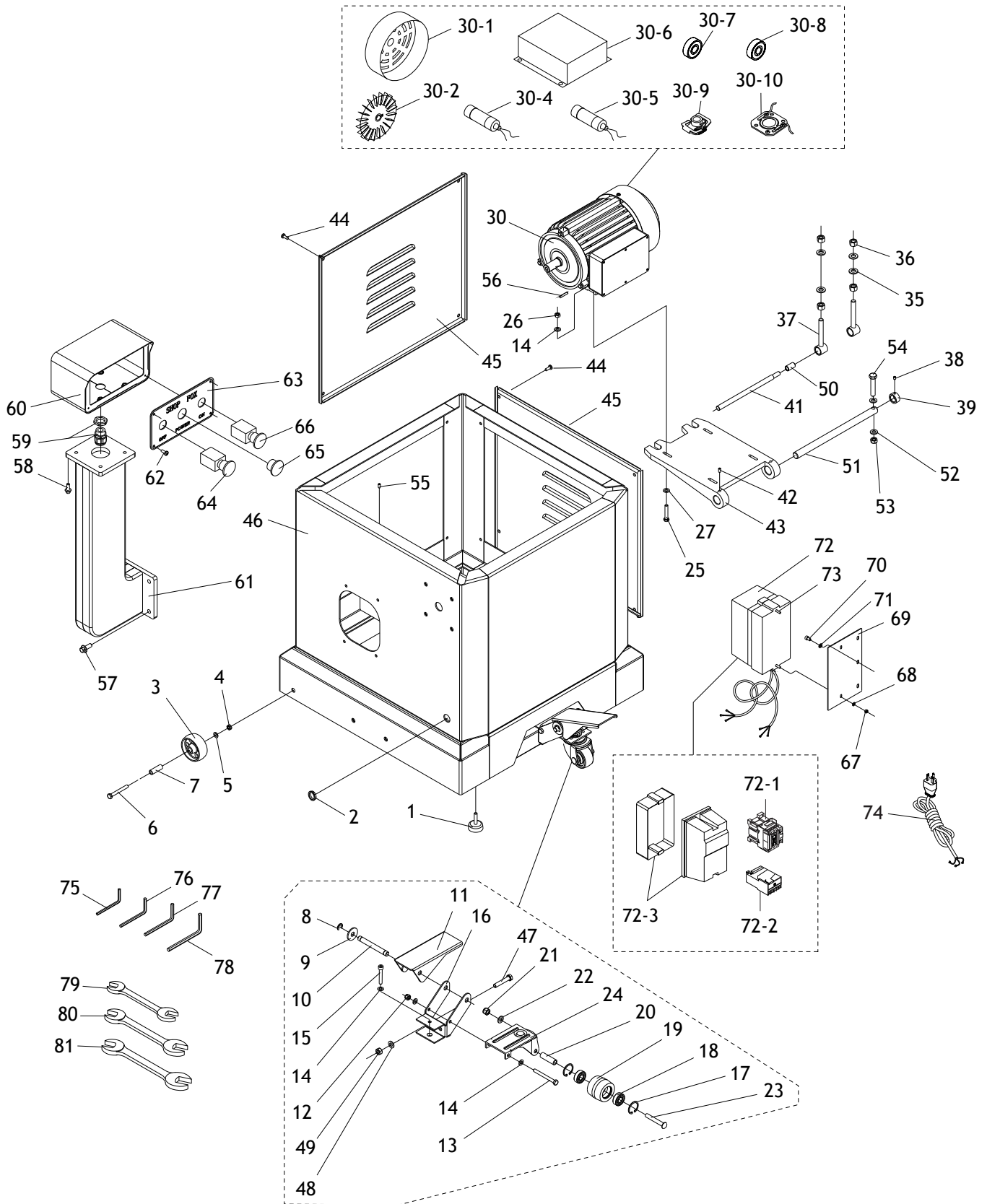


Figure 10. Motor junction box wiring.

PARTS

Cabinet

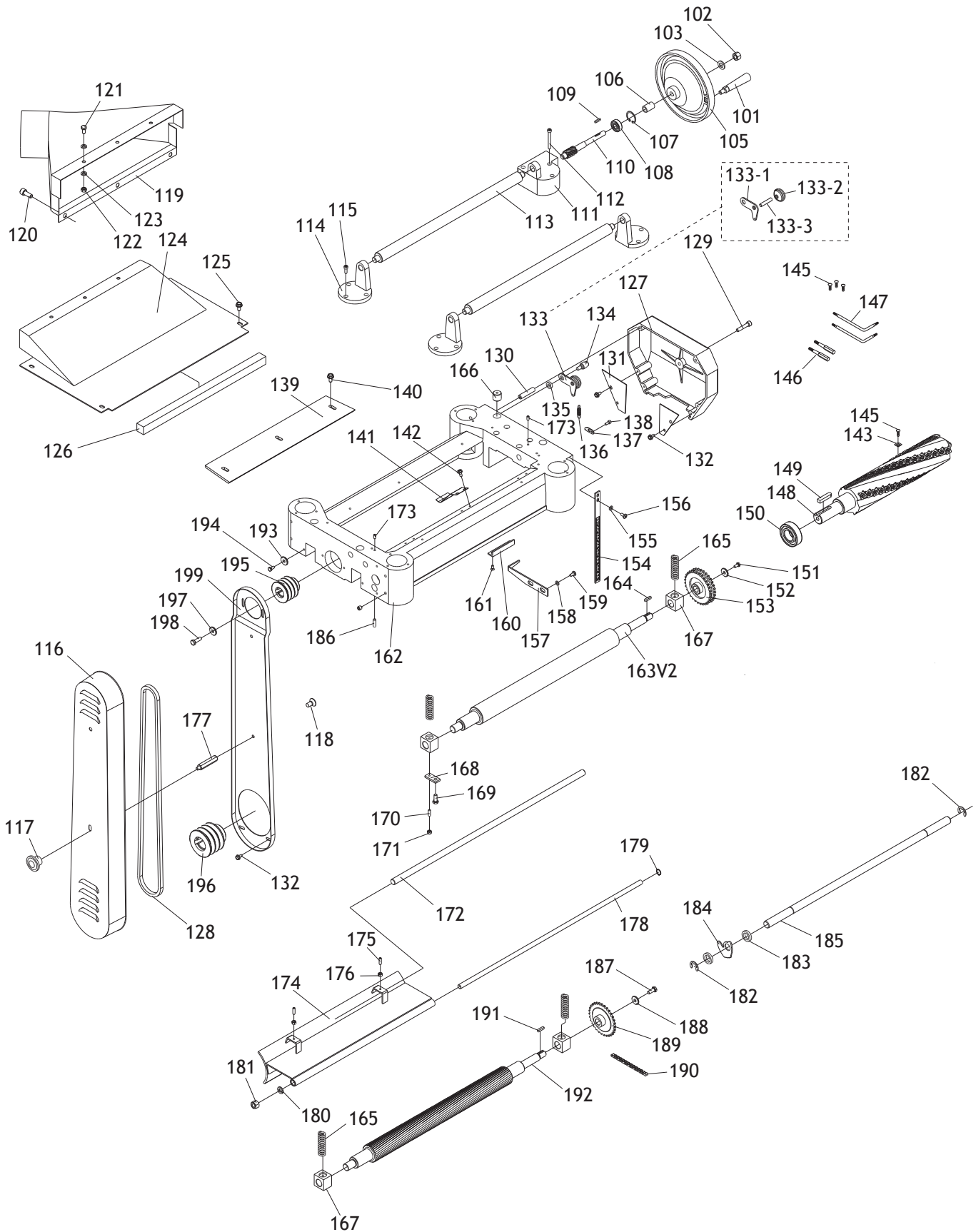




Cabinet Parts List

REF	PART #	DESCRIPTION	REF	PART #	DESCRIPTION
1	X1742H001	RUBBER FEET	42	X1742H042	SET SCREW M6-1 X 12
2	X1742H002	STRAIN RELIEF	43	X1742H043	MOTOR PLATE
3	X1742H003	UNIVERSAL PULLEY	44	X1742H044	FLAT HD SCR M6-1 X 20
4	X1742H004	HEX NUT M8-1.25	45	X1742H045	COVER
5	X1742H005	FLAT WASHER 8MM	46	X1742H046	ENCLOSED STAND
6	X1742H006	HEX BOLT M8-1.25 X 65	47	X1742H047	HEX BOLT M10-1.5 X 55
7	X1742H007	SLEEVE	48	X1742H048	FLAT WASHER 10MM
8	X1742H008	EXT RETAINING RING 9MM	49	X1742H049	HEX NUT M10-1.5
9	X1742H009	FLAT WASHER 12MM	50	X1742H050	BUSHING
10	X1742H010	SHAFT 12MM	51	X1742H051	PLATE CONNECTING ROD ASSY
11	X1742H011	PEDAL	52	X1742H052	FLAT WASHER 10MM
12	X1742H012	HEX NUT M8-1.25	53	X1742H053	HEX NUT M10-1.5
13	X1742H013	HEX BOLT M8-1.25 X 100	54	X1742H054	HEX BOLT M10-1.5 X 75
14	X1742H014	FLAT WASHER 8MM	55	X1742H055	SET SCREW M8-1.25 X 12
15	X1742H015	HEX BOLT M8-1.25 X 50	56	X1742H056	KEY 5 X 5 X 30
16	X1742H016	BRACKET	57	X1742H057	HEX BOLT M8-1.25 X 20
17	X1742H017	INT RETAINING RING 35MM	58	X1742H058	HEX BOLT M6-1 X 16
18	X1742H018	BALL BEARING 6202-2RS	59	X1742H059	BALL STRAIN RELIEF
19	X1742H019	TROLLEY WHEEL	60	X1742H060	CONTROL BOX
20	X1742H020	SLEEVE	61	X1742H061	SUPPORT ARM
21	X1742H021	LOCK NUT M12-1.75	62	X1742H062	TAP SCREW #10 X 3/8
22	X1742H022	FLAT WASHER 12MM	63	X1742H063	CONTROL PANEL
23	X1742H023	TROLLEY WHEEL BOLT	64	X1742H064	STOP BUTTON
24	X1742H024	TROLLEY UNIVERSAL KIT	65	X1742H065	POWER LAMP
25	X1742H025	HEX BOLT M8-1.25 X 45	66	X1742H066	ON BUTTON
26	X1742H026	HEX NUT M8-1.25	67	X1742H067	HEX NUT M5-.8
27	X1742H027	FLAT WASHER 8MM	68	X1742H068	FLAT WASHER 5MM
30	X1742H030	MOTOR 3HP 240V 1-PH	69	X1742H069	PLATE
30-1	X1742H030-1	MOTOR FAN COVER	70	X1742H070	HEX BOLT M8-1.25 X 10
30-2	X1742H030-2	MOTOR FAN	71	X1742H071	FLAT WASHER 6MM
30-4	X1742H030-4	R CAPACITOR 40M 450V	72	X1742H072	MAGNETIC SWITCH ASSY
30-5	X1742H030-5	S CAPACITOR 250M 250V 3-7/8 X 1-1/2	72-1	X1742H072-1	CONTACTOR NHD 09D 230V
30-6	X1742H030-6	JUNCTION BOX	72-2	X1742H072-2	OL RELAY NHD NTH-21 17-21A
30-7	X1742H030-7	BALL BEARING 6204ZZ	72-3	X1742H072-3	JUNCTION BOX
30-8	X1742H030-8	BALL BEARING 6203ZZ	73	X1742H073	PHLP HD SCR M5-.8 X 25
30-9	X1742H030-9	CENT SWITCH 5/8-3450	74	X1742H074	POWER CORD 12G 3W 72" 6-20P
30-10	X1742H030-10	CONTACT PLT-TUNGSTEN 5HP OR LESS	75	X1742H075	HEX WRENCH 2.5MM
35	X1742H035	FLAT WASHER 12MM	76	X1742H076	HEX WRENCH 3MM
36	X1742H036	HEX NUT M12-1.75	77	X1742H077	HEX WRENCH 4MM
37	X1742H037	ADJUST BOLT	78	X1742H078	HEX WRENCH 6MM
38	X1742H038	SET SCREW M6-1 X 8	79	X1742H079	WRENCH 8 X 10MM OPEN-ENDS
39	X1742H039	COLLAR	80	X1742H080	WRENCH 14 X 17MM OPEN-ENDS
41	X1742H041	PLATE CONNECTING ROD	81	X1742H081	WRENCH 17 X 19MM OPEN-ENDS

Headstock

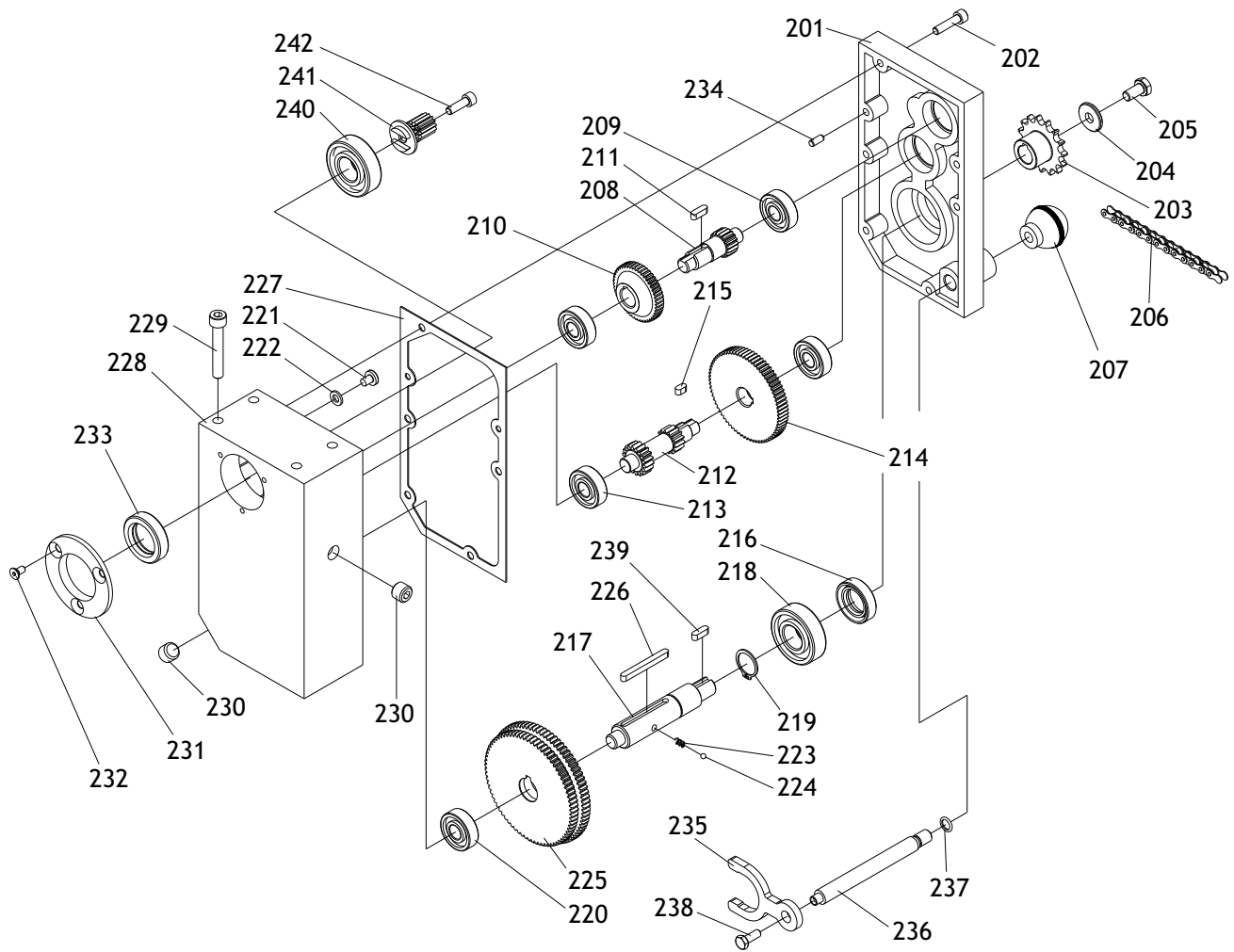


Headstock Parts List

REF	PART #	DESCRIPTION
101	X1742H101	HANDLE
102	X1742H102	HEX NUT M12-1.75
103	X1742H103	FLAT WASHER 12MM
105	X1742H105	HANDWHEEL
106	X1742H106	COLLAR
107	X1742H107	INT RETAINING RING 32MM
108	X1742H108	BALL BEARING 6201-2RS
109	X1742H109	KEY 4 X 4 X 20
110	X1742H110	WORM GEAR
111	X1742H111	WORM HOUSING
112	X1742H112	CAP SCREW M5-.8 X 55
113	X1742H113	ROLLER
114	X1742H114	ROLLER STAND
115	X1742H115	CAP SCREW M8-1.25 X 14
116	X1742H116	PULLEY COVER
117	X1742H117	KNOB M8-1.25
118	X1742H118	FLAT HD SCR M6-1 X 12
119	X1742H119	DUST HOOD
120	X1742H120	CAP SCREW M8-1.25 X 20
120-1	X1742H120-1	FLAT WASHER 8MM
121	X1742H121	HEX BOLT M6-1 X 10
122	X1742H122	HEX NUT M6-1
123	X1742H123	FLAT WASHER 6MM
124	X1742H124	UPPER COVER
125	X1742H125	FLANGE BOLT M6-1 X 12
126	X1742H126	FOAM
127	X1742H127	GEAR BOX COVER
128	X1742H128	V-BELT MX60
129	X1742H129	CAP SCREW M8-1.25 X 45
130	X1742H130	ROLL PIN 6 X 20
131	X1742H131	SAFETY HATCH
132	X1742H132	FLANGE BOLT M6-1 X 10
133	X1742H133	IDLE BRACKET ASSY
133-1	X1742H133-1	BRACKET
133-2	X1742H133-2	IDLE PULLEY
133-3	X1742H133-3	IDLE SHAFT
134	X1742H134	SHAFT
135	X1742H135	COLLAR
136	X1742H136	EXTENSION SPRING
137	X1742H137	HANGER
138	X1742H138	CAP SCREW M6-1 X 8
139	X1742H139	CHIP DEFLECTOR PLATE
140	X1742H140	FLANGE BOLT M6-1 X 12
141	X1742H141	PRESS PLATE
142	X1742H142	FLANGE BOLT M6-1 X 12
143	X1742H143	CARBIDE INSERT 15 X 15 X 2.5MM 10-PK
145	X1742H145	FLAT HD TORX T20 M6-1 X 15
146	X1742H146	DRIVER BIT TORX T20
147	X1742H147	L-WRENCH TORX T20
148	X1742H148	CUTTERHEAD 15" HELICAL
149	X1742H149	KEY 8 X 8 X 36

REF	PART #	DESCRIPTION
150	X1742H150	BALL BEARING 6205-2RS
151	X1742H151	HEX BOLT M6-1 X 16
152	X1742H152	FLAT WASHER 6MM
153	X1742H153	SPROCKET
154	X1742H154	SCALE
155	X1742H155	FLAT WASHER 6MM
156	X1742H156	PHLP HD SCR M6-1 X 12
157	X1742H157	POINTER
158	X1742H158	FLAT WASHER 6MM
159	X1742H159	PHLP HD SCR M6-1 X 12
160	X1742H160	CUT LIMIT PLATE
161	X1742H161	PHLP HD SCR M6-1 X 8
162	X1742H162	HEAD CASTING
163	X1742H163	OUTFEED ROLLER (RUBBER)
164	X1742H164	KEY 5 X 5 X 16
165	X1742H165	COMPRESSION SPRING
166	X1742H166	HEAD CASTING SET SCREW
167	X1742H167	BUSHING
168	X1742H168	PLATE
169	X1742H169	HEX BOLT M8-1.25 X 16
170	X1742H170	SET SCREW M5-.8 X 12
171	X1742H171	HEX NUT M5-.8
172	X1742H172	SHAFT
173	X1742H173	SET SCREW M6-1 X 20
174	X1742H174	CHIP BREAKER
175	X1742H175	SET SCREW M6-1 X 18
176	X1742H176	HEX NUT M6-1
177	X1742H177	RECEIVER PIN
178	X1742H178	LOCKING ROD
179	X1742H179	EXT RETAINING RING 12MM
180	X1742H180	LOCK WASHER 12MM
181	X1742H181	HEX NUT M12-1.75
182	X1742H182	E-CLIP 15MM
183	X1742H183	COLLAR
184	X1742H184	ANTI-KICKBACK FINGER
185	X1742H185	SHAFT
186	X1742H186	SET SCREW M8-1.25 X 16
187	X1742H187	HEX BOLT M6-1 X 16
188	X1742H188	FLAT WASHER 6MM
189	X1742H189	SPROCKET
190	X1742H190	CHAIN 06B-1 X 63
191	X1742H191	KEY 5 X 5 X 16
192	X1742H192	INFEED ROLLER
193	X1742H193	FLAT WASHER 6MM
194	X1742H194	HEX BOLT M6-1 X 12
195	X1742H195	CUTTERHEAD PULLEY
196	X1742H196	MOTOR PULLEY
197	X1742H197	COLLAR
198	X1742H198	HEX BOLT M8-1.25 X 20
199	X1742H199	BELT GUARD

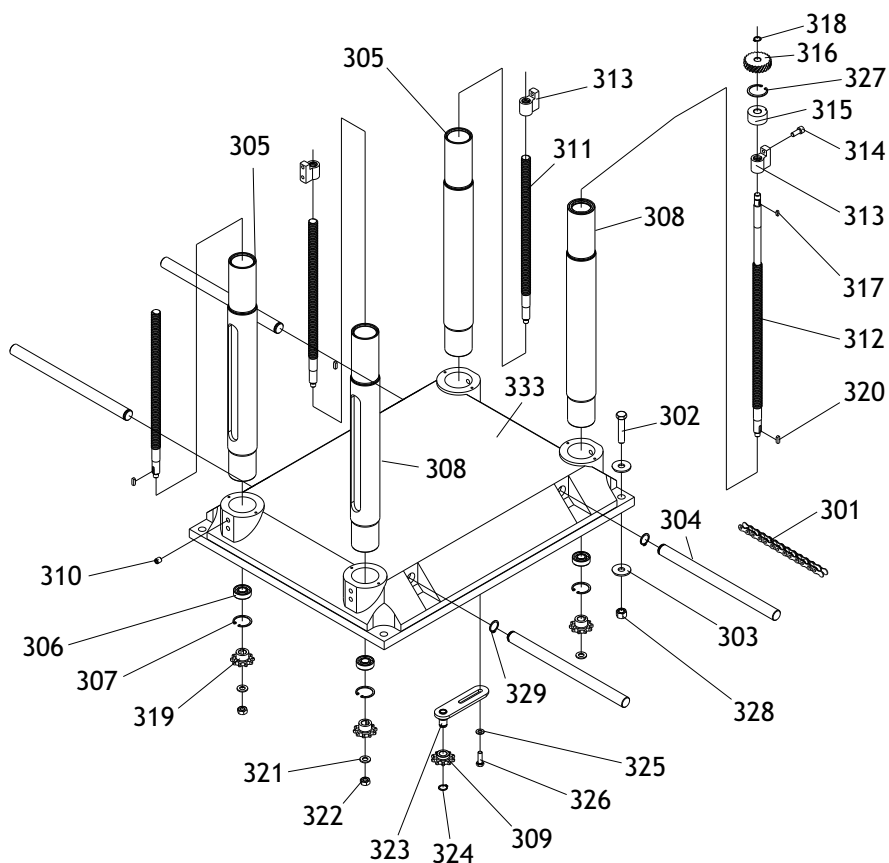
Gearbox



REF	PART #	DESCRIPTION
201	X1742H201	GEAR BOX
202	X1742H202	HEX BOLT M6-1 X 25
203	X1742H203	SPROCKET
204	X1742H204	FLAT WASHER 8MM
205	X1742H205	HEX BOLT M8-1.25 X 16
206	X1742H206	CHAIN 06B-1 X 51
207	X1742H207	KNOB M8-1.25, BALL
208	X1742H208	SHAFT
209	X1742H209	BALL BEARING 6201-2RS
210	X1742H210	GEAR
211	X1742H211	KEY 5 X 5 X 14
212	X1742H212	SHAFT
213	X1742H213	BALL BEARING 6201-2RS
214	X1742H214	GEAR
215	X1742H215	KEY 5 X 5 X 10
216	X1742H216	OIL SEAL 25 X 32 X 7
217	X1742H217	SHAFT
218	X1742H218	BALL BEARING 6204-2RS
219	X1742H219	EXT RETAINING RING 20MM
220	X1742H220	BALL BEARING 6201-2RS
221	X1742H221	PHLP HD SCR M6-1 X 8

REF	PART #	DESCRIPTION
222	X1742H222	FLAT WASHER 6MM
223	X1742H223	COMPRESSION SPRING
224	X1742H224	STEEL BALL 4MM
225	X1742H225	GEAR
226	X1742H226	KEY 5 X 5 X 50
227	X1742H227	GASKET
228	X1742H228	GEAR BOX COVER
229	X1742H229	HEX BOLT M8-1.25 X 50
230	X1742H230	OIL PLUG
231	X1742H231	FLANGE COVER
232	X1742H232	CAP SCREW M5-.8 X 12
233	X1742H233	OIL SEAL 25 X 40 X 10
234	X1742H234	ROLL PIN 5 X 10
235	X1742H235	SHIFT FORK
236	X1742H236	HANDLE SHAFT
237	X1742H237	O-RING 16 X 2.4
238	X1742H238	FLANGE BOLT M6-1 X 12
239	X1742H239	KEY 5 X 5 X 16
240	X1742H240	BALL BEARING 6204-2RS
241	X1742H241	GEAR
242	X1742H242	CAP SCREW M6-1 X 20

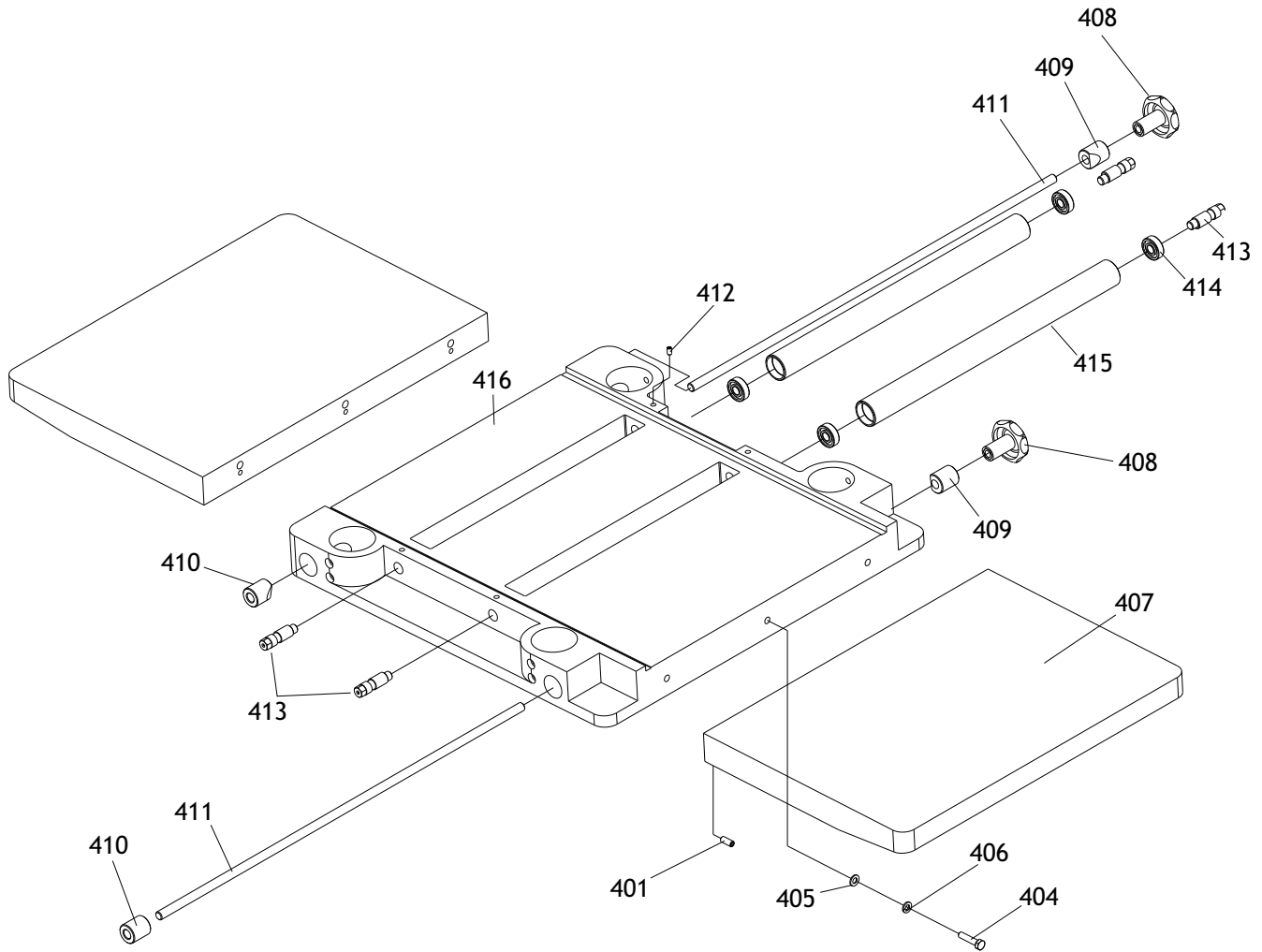
Lower Table



REF	PART #	DESCRIPTION
301	X1742H301	CHAIN 12.7 AX 134
302	X1742H302	HEX BOLT M12-1.75 X 45
303	X1742H303	FLAT WASHER 12MM
304	X1742H304	LIFTING BAR
305	X1742H305	COLUMN
306	X1742H306	BALL BEARING 6302-OPEN
307	X1742H307	INT RETAINING RING 42MM
308	X1742H308	COLUMN
309	X1742H309	SPROCKET
310	X1742H310	SET SCREW M10-1.5 X 12
311	X1742H311	LEADSCREW
312	X1742H312	LEADSCREW
313	X1742H313	LEADSCREW NUT
314	X1742H314	CAP SCREW M6-1 X 20
315	X1742H315	BUSHING

REF	PART #	DESCRIPTION
316	X1742H316	GEAR
317	X1742H317	KEY 4 X 4 X 12
318	X1742H318	EXT RETAINING RING 12MM
319	X1742H319	SPROCKET
320	X1742H320	KEY 5 X 5 X 16
321	X1742H321	FLAT WASHER 10MM
322	X1742H322	HEX NUT M10-1.5
323	X1742H323	BRACKET
324	X1742H324	EXT RETAINING RING 15MM
325	X1742H325	FLAT WASHER 8MM
326	X1742H326	HEX BOLT M8-1.25 X 20
327	X1742H327	INT RETAINING RING 40MM
328	X1742H328	HEX NUT M12-1.75
329	X1742H329	EXT RETAINING RING 15MM
333	X1742H333	BASE

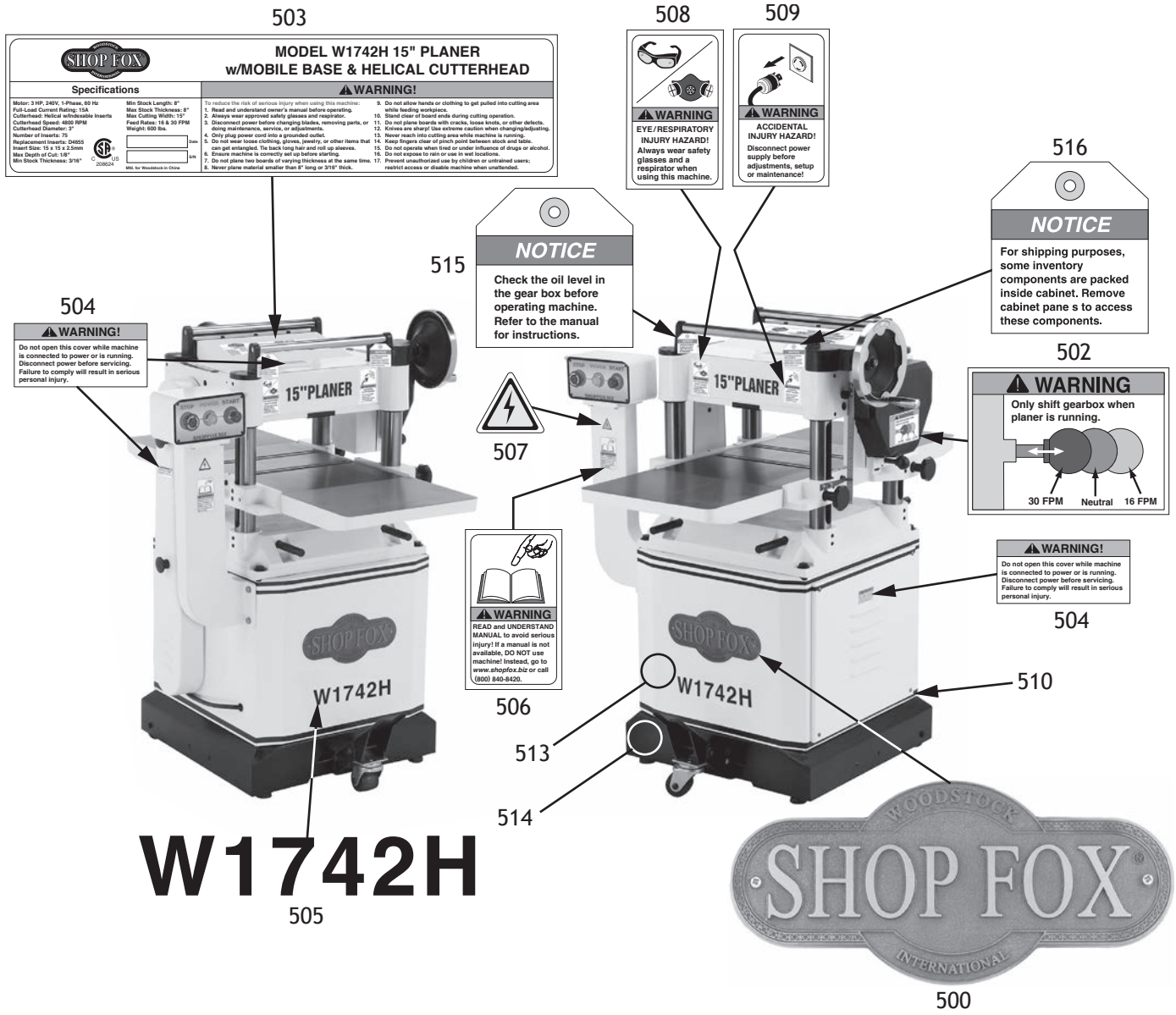
Upper Table



REF	PART #	DESCRIPTION
401	X1742H401	SET SCREW M8-1.25 X 20
404	X1742H404	HEX BOLT M8-1.25 X 30
405	X1742H405	FLAT WASHER 8MM
406	X1742H406	LOCK WASHER 8MM
407	X1742H407	EXTENSION WING
408	X1742H408	FEMALE KNOB M12-1.75
409	X1742H409	WEDGE DOG

REF	PART #	DESCRIPTION
410	X1742H410	GIB
411	X1742H411	LOCK BAR
412	X1742H412	SET SCREW M6-1 X 16
413	X1742H413	ECCENTRIC SHAFT
414	X1742H414	BALL BEARING 6203-2RS
415	X1742H415	ROLLER
416	X1742H416	TABLE/BED

Labels & Cosmetics



REF	PART #	DESCRIPTION
500	X1742H500	SHOP FOX NAMEPLATE - LARGE
502	X1742H502	SHIFT GEARS LABEL
503	X1742H503	MACHINE ID LABEL
504	X1742H504	CLOSE DOOR LABEL
505	X1742H505	MODEL NUMBER LABEL
506	X1742H506	READ MANUAL LABEL
507	X1742H507	ELECTRICITY LABEL

REF	PART #	DESCRIPTION
508	X1742H508	EYE PROTECTION/RESPIRATOR LABEL
509	X1742H509	DISCONNECT 220V LABEL
510	X1742H510	PINSTRIPES TAPE
513	X1742H513	TOUCH-UP PAINT, SHOP FOX WHITE
514	X1742H514	TOUCH-UP PAINT, SHOP FOX BLACK
515	X1742H515	CHECK OIL HANG TAG
516	X1742H516	INVENTORY COMPONENTS HANG TAG

⚠ 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.woodstockint.com to order new labels.

WARRANTY

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

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

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

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

To register the warranty, go to <https://www.woodstockint.com/warranty>, or scan the QR code below. You will be directed to the Warranty Registration page on www.woodstockint.com. Enter all applicable production information.





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READ THIS FIRST

Model W1742/W1742S

IMPORTANT UPDATE

Applies to Models Mfd. Since 09/17
and Owner's Manuals Printed 01/06



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

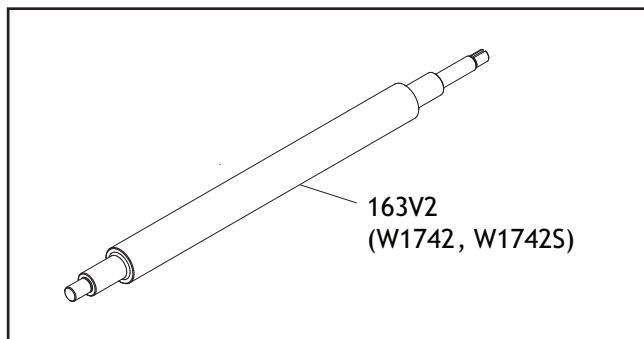
We made the following change to these machines since the owner's manuals were printed:

- Changed outfeed roller from serrated steel to rubber.

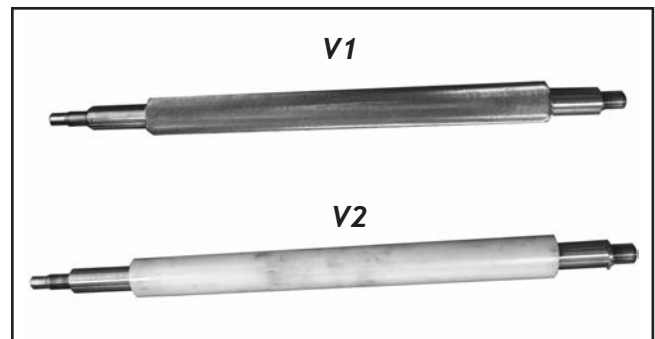
Aside from the information contained in this update, all other content in the owner's manual is applicable and **MUST** be read and understood for your own safety.

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

V2 Outfeed Roller



V1 & V2 Outfeed Roller Photos



REF	PART #	DESCRIPTION
163V2	X1742163V2	OUTFEED ROLLER (RUBBER) V2.09.17 (W1742)
163V2	X1742S163V2	OUTFEED ROLLER (RUBBER) V2.09.17 (W1742S)

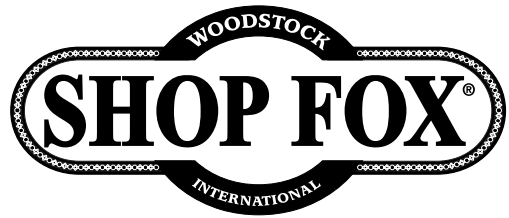
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#19143BL

Printed in China

**Models W1742, W1742S,
W1754, W1754S**
*****IMPORTANT NOTICE*****



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

For shipping purposes, many inventory components are packed inside the cabinet. Check here before assuming machine components are missing! Remove cabinet access panels, as shown below, to access all the shipped components. Re-install panels before operating machine.

Aside from the information contained in this update, all other content in the owner's manual MUST be read and understood for your own safety. If you have any further questions about this manual update or the changes made to the machine, contact our Technical Support.

Model W1742



Remove Panels
to Access Loose
Components
Shipped with
Planer

Model W1754



Remove Panels
to Access Loose
Components
Shipped with
Planer



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READ THIS FIRST

Model W1742/W1742S ***IMPORTANT UPDATE***

Applies to Models Mfg. Since 7/12
and Owner's Manual January, 2006

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The following changes were recently made to these machines since the owner's manual was printed:

- Now certified to meet CSA 22.2 #71.2-10 and UL 987-7th standards.
- Changed the motor nominal voltage from 220V to 240V and added a power cord with a plug.

This document provides relevant updates to portions of the owner's manual that no longer apply and additional information required by CSA—aside from this information, all other content in the owner's manual applies 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.**

Changed Specifications

Electrical

Power Requirement240V, Single-Phase, 60 Hz

Motor

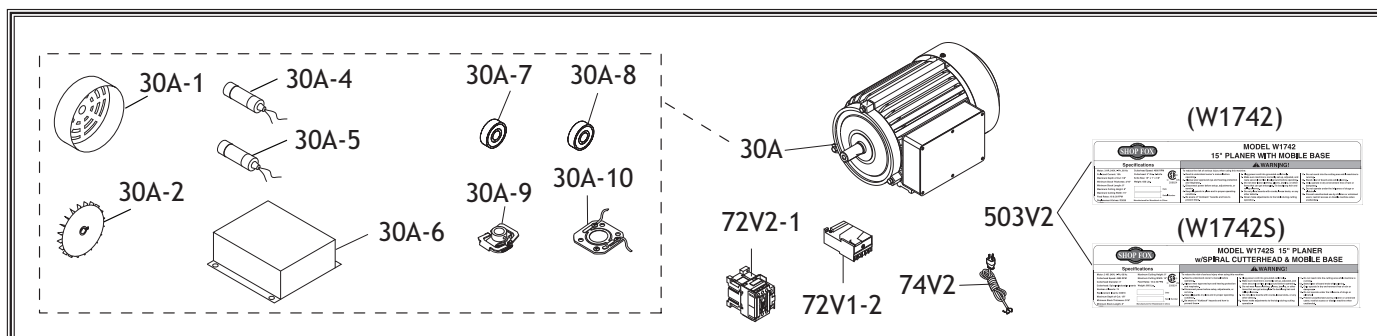
Voltage 240V

Amps..... 15A

Operation Info

Cutterhead Speed 4800 RPM

New/Revised Parts



REF	PART #	DESCRIPTION
30A	X1742030A	MOTOR 3HP 240V 1-PH V2.03.08
30A-1	X1742030A-1	MOTOR FAN COVER V2.03.08
30A-2	X1742030A-2	MOTOR FAN V2.03.08
30A-4	X1742030A-4	R CAPACITOR 20M 400V
30A-5	X1742030A-5	S CAPACITOR 200M 250V 3-7/8 X 1-1/2
30A-6	X1742030-6	MOTOR JUNCTION BOX
30A-7	XP6204ZZ	BALL BEARING 6204ZZ
30A-8	XP6203ZZ	BALL BEARING 6203ZZ

REF	PART #	DESCRIPTION
30A-9	X1742030A-9	CENTRIFUGAL SWITCH 16MM 3450
30A-10	X1742030A-10	CONTACT PLATE 16MM
72V2-1	X1741035-2	CONTACTOR NHD C-09D 230V
72V1-2	X1742072V2-2	OL RELAY NHD NTH-21 17-21A
74V2	X1742074V2	PWR CORD 12G 3W 72" 6-20P V2.07.12
503V2	X1742503V2	ID LABEL CSA V2.07.12 (W1742)
503V2	X1742503V2	ID LABEL CSA V2.07.12 (W1742S)



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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 and never make modifications not approved by Woodstock. Modifying machine or using it differently than intended may result in malfunction or mechanical failure that can lead 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 Planers

PLANER INJURY RISKS. Familiarize yourself with the main injury risks associated with planers—always use common sense and good judgement to reduce your risk of injury. **Main injury risks from planers:** amputation/lacerations from contact with the moving cutterhead, entanglement/crushing injuries from getting caught in moving parts, blindness or eye injury from flying wood chips, or impact injuries from workpiece kickback.

KICKBACK. Know how to reduce the risk of kickback and kickback-related injuries. “Kickback” occurs during the operation when the workpiece is ejected from the machine at a high rate of speed. Kickback is commonly caused by poor workpiece selection, unsafe feeding techniques, or improper machine setup/maintenance. Kickback injuries typically occur as follows: (1) operator/bystanders are struck by the workpiece, resulting in impact injuries (i.e., blindness, broken bones, bruises, death); (2) operator’s hands are pulled into blade, resulting in amputation or severe lacerations.

REACHING INSIDE PLANER. Never remove guards/covers or reach inside the planer during operation or while connected to power. You could be seriously injured if you accidentally touch the spinning cutterhead or get entangled in moving parts. If a workpiece becomes stuck or sawdust removal is necessary, turn planer OFF and disconnect power before clearing.

DULL/DAMAGED KNIVES/INSERTS. Only use sharp, undamaged knives/inserts. Dull or damaged knives/inserts increase the risk of kickback.

INSPECTING STOCK. To reduce the risk of kickback injuries or machine damage, thoroughly inspect and prepare the workpiece before cutting. Verify workpiece is free of nails, staples, loose knots or foreign material. Workpieces with minor warping should be jointed first or planed with the cupped side facing the infeed table.

BODY PLACEMENT. Stand to one side of planer during the entire operation to avoid getting hit if kickback occurs.

GRAIN DIRECTION. Planing across the grain is hard on the planer and may cause kickback. Plane in the same direction or at a slight angle with the wood grain.

PLANING CORRECT MATERIAL. Only plane natural wood stock. DO NOT plane MDF, OSB, plywood, laminates or other synthetic materials that can break up inside the planer and be ejected towards the operator.

LOOKING INSIDE PLANER. Wood chips fly around inside planer at a high rate of speed during operation. To avoid injury from flying material, DO NOT look inside planer during operation.

CUTTING LIMITATIONS. To reduce risk of kickback hazards or damage to machine, do not exceed maximum depth of cut or minimum board length and thickness found in Data Sheet. Only feed one board at a time.

INFEEED ROLLER CLEARANCE. The infeed roller is designed to pull material into the spinning cutterhead. To reduce the risk of entanglement, keep hands, clothing, jewelry, and long hair away from the infeed roller during operation.

FEED WORKPIECE PROPERLY. To reduce the risk of kickback, never start planer with workpiece touching cutterhead. Allow cutterhead to reach full speed before feeding, and do not change feed speed during cutting operation.

WORKPIECE SUPPORT. To reduce risk of kickback, always make sure workpiece can move completely across table without rocking or tipping. Use auxiliary support stands for long stock.

SECURE KNIVES/INSERTS. Loose knives or improperly set inserts can become dangerous projectiles or cause machine damage. Always verify knives/inserts are secure and properly adjusted before operation.

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 240V 15 Amps

Circuit Requirements

This machine is prewired to operate on a 240V power supply circuit that has a verified ground and meets the following requirements:

Circuit Type 240V, 60 Hz, Single-Phase
Circuit Size 20 Amps
Plug/Receptacle NEMA 6-20

⚠ 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.

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 240V Connection

This machine is equipped with a power cord that has an equipment-grounding wire and NEMA 6-20 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.

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 the gauge 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 240V 12 AWG
- Maximum Length (Shorter is Better) 50 ft.

⚠ 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.

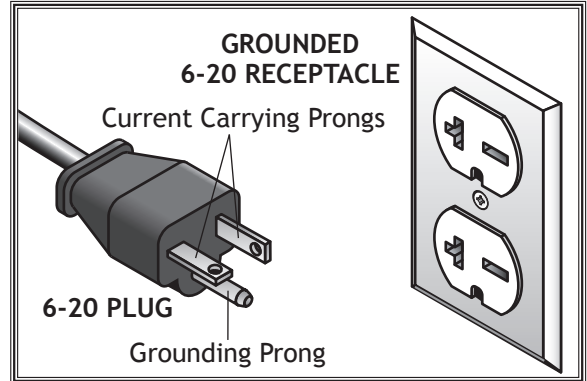


Figure 2. NEMA 6-20 plug & receptacle.

⚠ CAUTION

No adapter should be used with the required plug. If the plug does not fit the available receptacle or the machine must be reconnected to a different type of circuit, the reconnection must be made by an electrician or qualified service personnel and it must comply with all local codes and ordinances.

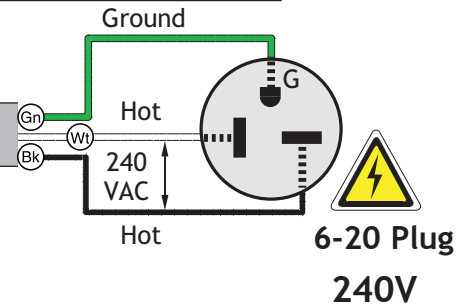
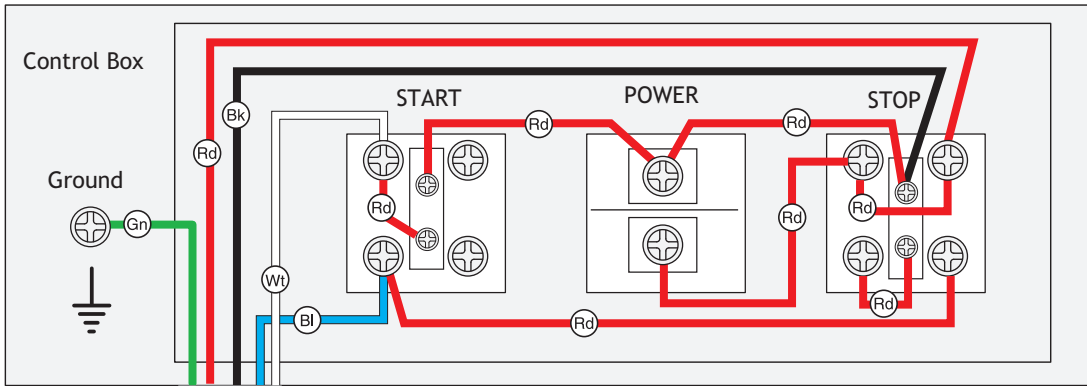
Wiring Diagram

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

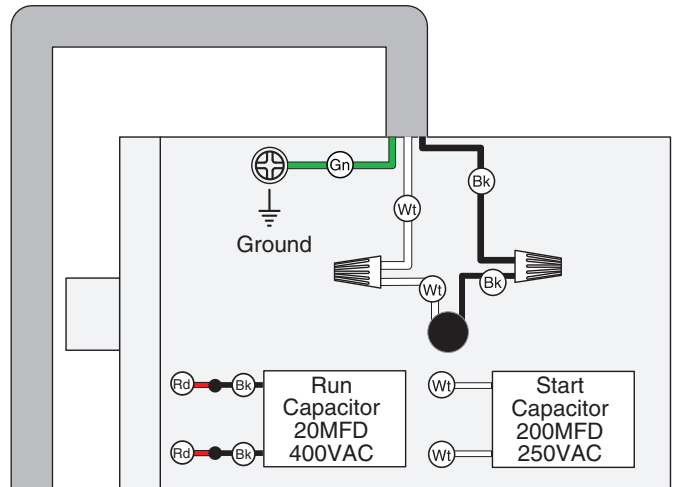
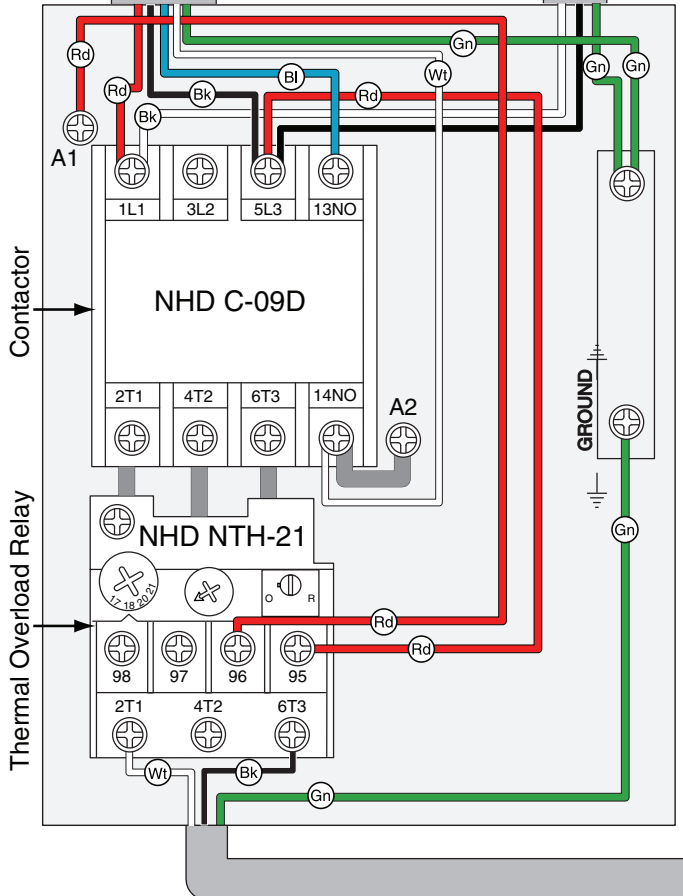
COLOR KEY

BLACK	
WHITE	
GREEN	
RED	
BLUE	

CONTROL PANEL (from Behind)



MAGNETIC SWITCH ASSY



MOTOR (240V, Single-Phase)



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SHOPFOX.BIZ



MODEL W1742 15" PLANER WITH CAST IRON WINGS



OWNER'S MANUAL

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

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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.

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

INTRODUCTION

Woodstock Technical Support

We stand behind our machines! In the event that questions arise about your machine, parts are missing, or a defect is found, 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 send out parts for warranty claims.

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

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

About Your New 15" Planer

Your new **SHOP FOX®** 15" Planer with Cast-Iron Wings 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.

This 15" Planer with precision-ground cast-iron wings, has a stationary headstock and a cast-iron moveable table, which guarantees consistent planing depth without the potential for headstock lifting during planing. The Model W1742 planer has a built-in mobile base which moves over 600 lbs. worth of vibration dampening mass. A 3 HP motor drives the three knife cutterhead along with a two speed gearbox and roller system.

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

Specifications

Motor	3 HP, 18A, 220V, 3450 RPM, Single-Phase
Maximum Workpiece Width	15"
Maximum Workpiece Thickness	8"
Minimum Workpiece Thickness	$\frac{3}{16}$ "
Minimum Workpiece Length.....	8"
Maximum Depth of Cut	$\frac{1}{8}$ "
Cutterhead Knives	3
Cutterhead Knife Size	15"L X 1"W X $\frac{1}{8}$ "T
Cutterhead Diameter.....	3"
Cutterhead Speed	5,000 RPM
Cuts Per-Minute	15,000
Approximate Handwheel Rotation-to-Table Travel.....	360°= 0.060"
Dust Port Size	4"
Footprint.....	22" x 22- $\frac{1}{2}$ "
Overall Width.....	32- $\frac{1}{2}$ "
Overall Height.....	45- $\frac{7}{8}$ "
Overall Depth	42"
Table Size w/Wings.....	15" x 42"
Table Size wo/Wings	15" x 20"
Feed Rate	16 and 30 FPM
Table and Wings	Precision Ground Cast Iron
In-Feed Roller	Solid-Serrated Steel
Out-Feed Roller	Solid-Knurled Steel
Board Return Rollers	Two Chrome Solid-Steel
Table Rollers.....	Two Solid-Steel
Power Transfer	Triple V-belt
Bearings	Sealed and Permanently Lubricated Ball Bearings
Power Control	Magnetic Contactor w/Thermal Relay and Emergency Stop
Table Locks	Two Positive-Lock Knobs
Dust Port.....	One 4"
Table Height Measurement Scale.....	Metric and Inches
Shipping Weight.....	661 lbs.

Controls and Features

Take the time to familiarize yourself with the controls of your new planer. They will be frequently mentioned throughout the instructions in this manual, and the better you know your machine, the better you can make it perform. **Figure 1** points out the key controls and their locations.

As with all precision machinery, adjustments to the planer require very close tolerances. The adjustments described in this section will be factory set. However, during the life of the machine it will necessary to make these adjustments yourself. Many of these adjustments require the use of an indicating tool such as a dial indicator or a Rotacator® to achieve accurate results.

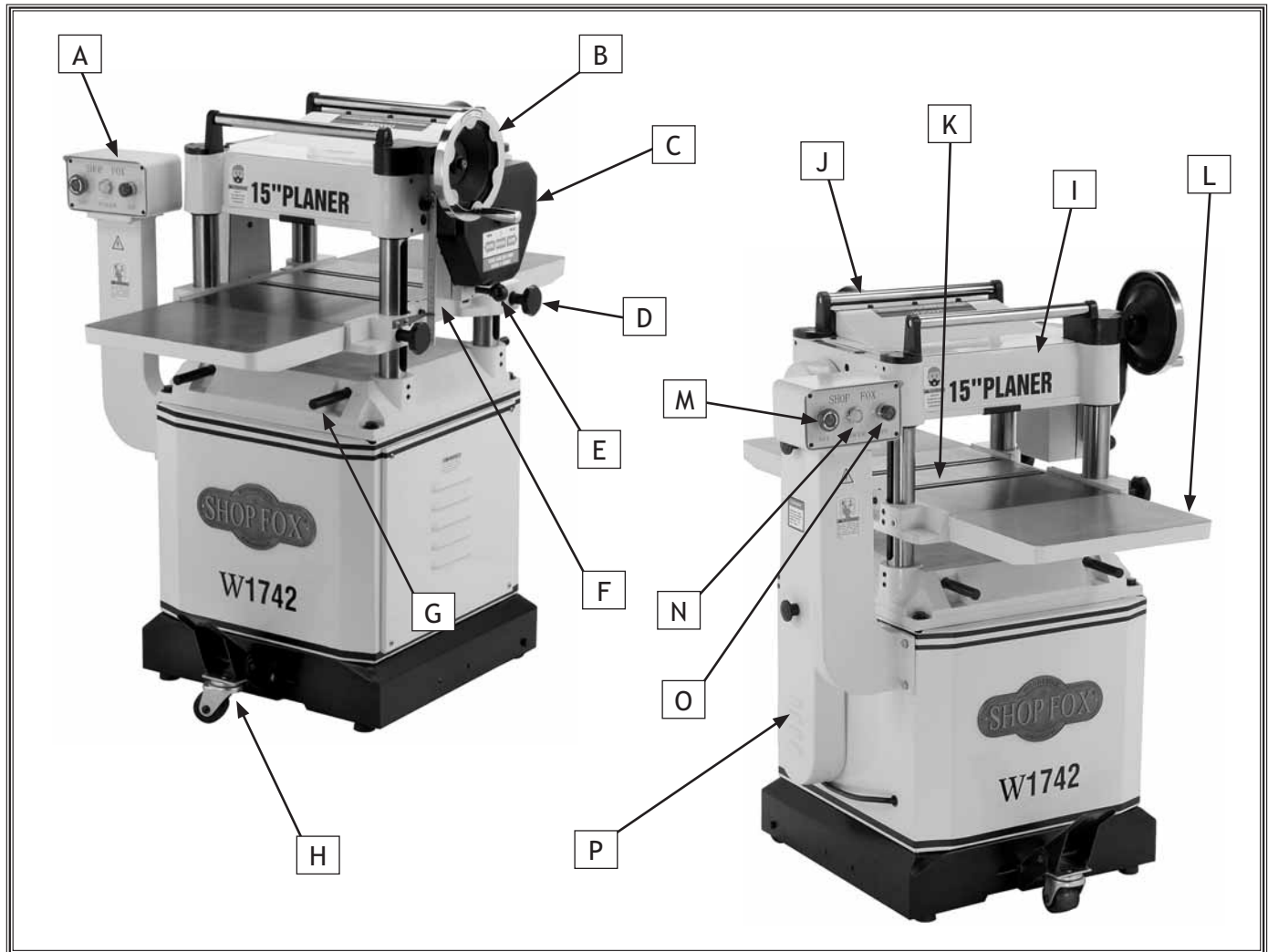


Figure 1. Controls and features.

- | | |
|-----------------------------|--------------------------|
| A. Control Panel | I. Headstock |
| B. Table Height Handwheel | J. Return Roller |
| C. Feed Roller Gearbox | K. Table Roller |
| D. Table Lock Knob | L. Cast Iron Wing |
| E. Feed Rate Selector | M. Emergency Stop Button |
| F. Table Height Scale | N. Power Lamp |
| G. Retractable Lifting Rods | O. ON Push Button |
| H. Caster Wheel and Lock | P. Drive Belt Cover |

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 eye-glasses only have impact resistant lenses, they are NOT safety glasses.
3. **ALWAYS WEAR AN ANSI 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 Instructions for Planers

SAFETY

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

<p>CAUTION</p>	<p>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.</p>
-----------------------	--

1. **INSTRUCTION MANUAL.** This machine presents significant safety hazards to untrained users. Read/understand this entire manual before starting the planer.
2. **REACHING INSIDE PLANER.** Never reach inside planer or remove covers when the planer is connected to power, and always stop the planer and disconnect power before removing jammed workpieces.
3. **INFEED CLEARANCE SAFETY.** The infeed roller is designed to pull material into the cutterhead. Always keep hands, clothing, and long hair away from the infeed roller during operation to prevent serious injury.
4. **BODY POSITION WHILE OPERATING.** The workpiece may kick out during operation. To avoid getting hit, stand to the side of the planer during the entire operation.
5. **PLANING CORRECT MATERIAL.** Only plane natural wood stock with this planer. **DO NOT** plane MDF, plywood, laminates, or other synthetic products.
6. **GRAIN DIRECTION.** Planing across the grain is hard on the planer and may cause the workpiece to kick out. Always plane in the same direction or at a slight angle with the wood grain.
7. **LOOKING INSIDE PLANER.** Wood chips fly around inside the planer at a high rate of speed. **DO NOT** look inside the planer or remove guards/covers during operation.
8. **CUTTING LIMITATIONS.** The planer may kick out a workpiece at the operator or be damaged if pushed beyond planing limits.
9. **CLEAN STOCK.** Planing stock with nails, staples, or loose knots **MAY** cause debris to kick out at the operator and **WILL** damage your knives when they contact the cutterhead. Always thoroughly inspect and prepare stock to avoid these hazards.
10. **DULL/DAMAGED KNIVES.** The planer may kick out a workpiece at the operator or give poor finish results if it is operated with dull or damaged knives.
11. **UNPLUGGING DURING ADJUSTMENTS.** When connected to power, the planer can be accidentally turned **ON**. Always disconnect power when servicing or adjusting the components of the planer.

ELECTRICAL

220V Operation

The **SHOP FOX®** Model W1742 operates at 220 volts. Use a NEMA-style 6-20 plug and outlet (**Figure 2**) to connect your machine to power.

The motor supplied with your new 15" Planer is rated at 3 HP and will draw approximately 18 amps during 220 volt operation.

We recommend connecting this machine to a dedicated circuit with a verified ground, using a 20 amp circuit breaker. Never replace a circuit breaker with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes. Otherwise you may overload the wire and plugs in the circuit.

If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, you may create a fire hazard—consult a qualified electrician to reduce this risk.

Extension Cords

We do not recommend using an extension cord for 220V equipment. Instead, arrange the placement of your machinery and installed wiring to eliminate the need for extension cords. If you must use an extension cord, please use the following guidelines:

- Use cords rated for Standard Service
- Never exceed a length of 50 feet
- Use cords with 10 ga. wire or bigger
- Ensure cord has a ground wire and pin
- Do not use cords in need of repair

Grounding

This machine must be grounded! The electrical cord supplied with this machine does not come with a 220 volt plug. Use a plug with a ground pin. If your outlet does not accommodate a ground pin, have it replaced by a qualified electrician or have an appropriate adapter installed and grounded properly. An adapter with a grounding wire does not guarantee the machine will be grounded. A ground source must be verified.

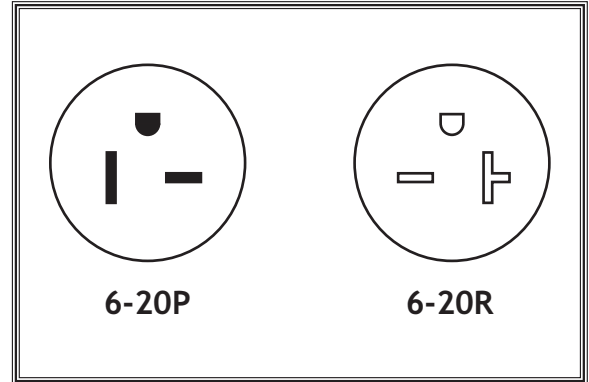


Figure 2. Typical 220V 20A 3-prong plug and outlet.

⚠️ WARNING

This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. If it is not, it will be necessary to run a separate 10 AWG copper grounding wire from the outlet to a known ground. Under no circumstances should the grounding pin be removed from any three-pronged plug or serious injury may occur.

SET UP

Unpacking

The SHOP FOX® Model W1742 has been carefully packaged for safe transporting. If you notice the machine has been damaged, please contact your authorized SHOP FOX® dealer immediately.

Inventory

The following is a description of the main components shipped with the SHOP FOX® Model W1742. Lay the components out to inventory them.

Note: Some parts and hardware may already be installed on the machine. Make sure to check the machine when you use this inventory list.

Box Inventory (Figure 3)	Qty
A. Planer	1
B. Dust Hood.....	1
C. Caster Assembly	1
D. Foot Lifting Lever and Pin.....	1
E. Handwheel and Handle	1
F. Extension Wings.....	2

Hardware and Tools


- Hex Wrenches 2.5, 3, 4, 6mm 4
- Wrenches 8/10, 14/17, 17/19 3
- Knife Setting Gauge 1

- Flat Washers 8mm (Wing) 6
- Lock Washers 8mm (Wing)..... 6
- Hex Bolts M8-1.25 x 30 (Wing)..... 6
- Set Screws M8-1.25 x 20 (Wing) 4

- Cap Screws M8-1.25 x 20 (Dust Hood) 3
- Hex Bolts M6-1 x 10 (Dust Hood) 3
- Flat Washers 6mm (Dust Hood) 3
- Hex Nuts M6-1 (Dust Hood)..... 3

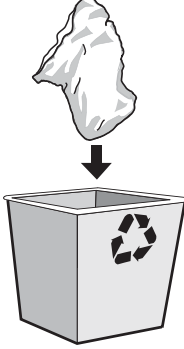
- Key 4 x 4 x 20 (Handwheel) 1
- Bushing (Handwheel) 1
- Hex Nut M12-1.75 (Handwheel)..... 1
- Flat Washer 12mm (Handwheel)..... 1


If any parts are missing, examine the packaging for the missing parts. For any missing parts, find the part number in the back of this manual and contact Woodstock International, Inc. at (360) 734-3482 or at tech-support@shopfox.biz



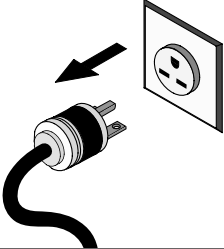
WARNING

SUFFOCATION HAZARD! Immediately discard all plastic bags and packing materials to eliminate choking/suffocation hazards for children and animals.





WARNING



UNPLUG power cord before you do any assembly or adjustment tasks! Otherwise, serious personal injury to you or others may occur!

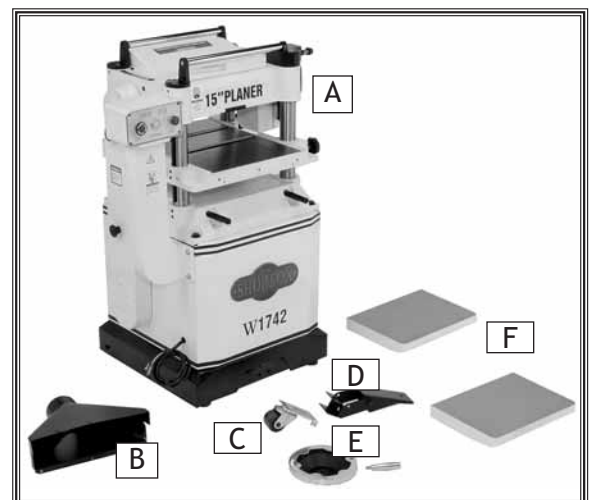


Figure 3. Inventory.

SET UP

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 planer.
- **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. Outlets must be located near each machine, so power or extension cords are clear of high-traffic areas. Follow local electrical codes for proper installation of new lighting, outlets, or circuits.

Cleaning Machine

The table and other unpainted parts of your 15" Planer 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.

	<p>⚠ WARNING NEVER use gasoline or other petroleum-based solvents to clean with. 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!</p>
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	<p>⚠ WARNING USE power lifting equipment to lift this planer. Otherwise, machine damage or serious personal injury may occur.</p>
--	--

	<p>⚠ CAUTION MAKE your shop "child safe." Ensure that your workplace is inaccessible to youngsters by closing and locking all entrances when you are away. NEVER allow untrained visitors in your shop when assembling, adjusting or operating equipment.</p>
--	---

	<p>⚠ 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.</p>
--	--

SET UP

Cast Iron Wings

The cast iron extension wings are identical for both the infeed and the outfeed ends of the table.

To mount these wings, do these steps:

1. Clean the wing, table, wing mating surfaces, and wipe a thin film of oil on the surfaces.
2. Loosen the table-roller set screws and turn the eccentrics until the table rollers fall below the table surface. Refer to **Figure 4** for locations.
3. Install two M8-1.25 x 20 set screws into each wing. Refer to **Figure 5** for location.
4. With a helper, match the tapped holes on the side of the table to the cast iron wings and lightly secure the wings in place with the three M8-1.25 x 30 hex bolts and the 8mm lock and flat washers.
5. Place a straightedge flat across the table and across the wings as shown in **Figure 6**.
6. Adjust the M8-1.25 x 20 set screws so the wings are flush with the table.
7. Tighten the hex bolts to secure the wings in place. The top of the wings should now be completely even with the top of the table, but double-check to make sure that the wings did not move during the tightening process.
8. Treat the wing and table top surface with an anti-rust compound or light machine oil to prevent rust.

Note: *If this is a first-time setup, DO NOT adjust the table rollers yet, you will do this adjustment later.*

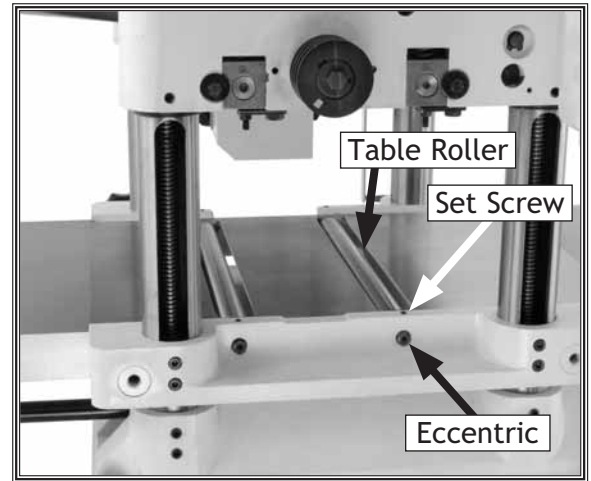


Figure 4. Table roller adjustment locations.

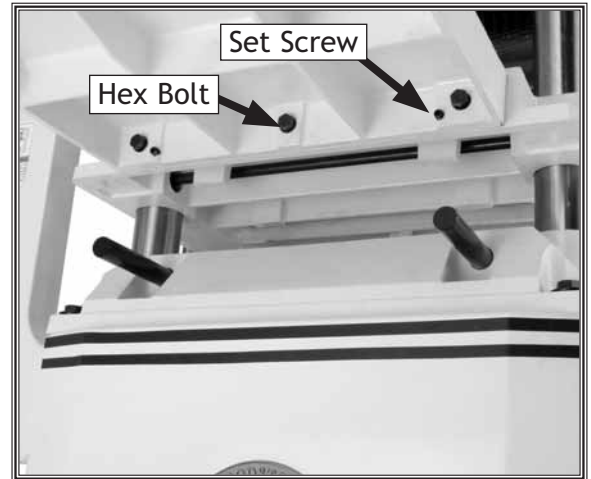


Figure 5. Extension wing installed.

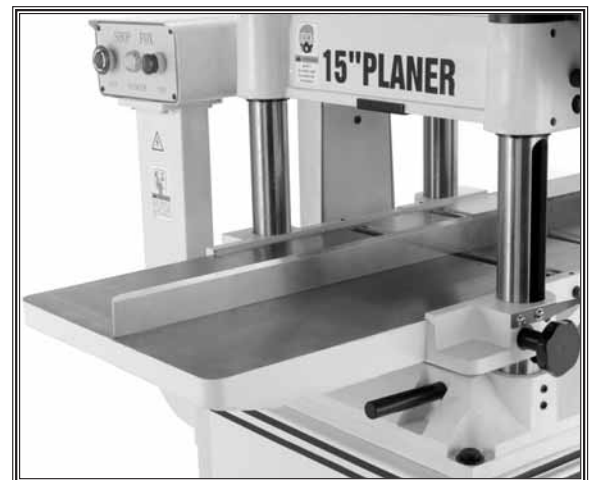


Figure 6. Setting wing height.

Handwheel

The handwheel operates a chain drive system that raises and lowers the table.

To mount the handwheel, do these steps:

1. Place the bushing on the handwheel shaft and insert the key into the shaft keyway.
2. Screw the handle into the handwheel, place the handwheel on the shaft and secure it with the hex nut and flat washer, as shown in **Figure 7**.

Dust Hood

The dust hood included should only be installed if you plan on hooking your planer up to a dust collection system.

To install the dust hood, do these steps:

1. Match the holes in the dust hood to the tapped holes in the planer casting on the outfeed end and install the three M8-1.25 x 20 cap screws.
2. Secure the top of the dust hood with the M6-1.0 x 12 hex bolts flat and lock washers (see **Figure 8**).

Caster and Foot Jack

To install the caster and foot jack, do these steps:

1. Remove the pin and hex bolt that are already mounted in the foot pedal bracket.
2. Align the caster assembly with the mounting holes in the foot pedal bracket.
3. Insert the hex bolt into the hole in the back side of the caster assembly, and tighten the bolt just enough for it to be snug without hampering the pivot action of the caster.
4. Attach the foot pedal to the caster and secure together by inserting the pin between the two parts.
5. Lock the caster and pedal (**Figure 9**) in place with the E-clip and washers.



Figure 7. Handwheel installation.



Figure 8. Dust hood installed.



Figure 9. Caster installed.

Table Roller Adjustment

If the table rollers are out of square with one another in the vertical plane, or they are out of square with the table surface, the workpiece will chatter, rotate, or hang during planing. Take the time to do this adjustment perfectly.

The required height of the table rollers will vary depending on the type of stock you intend to plane.

As a general rule, table roller height should be between 0.002" and 0.020" above the table (see **Figure 10**). However, some stock may have better results outside of these numbers. Often, a small amount of trial-and-error is required to find the best table roller height for any particular stock. Rough stock will plane better when the rollers are higher, and smooth stock will have less snipe when the rollers are lower.

To adjust the table rollers, do these steps:

1. Loosen the eccentric set screws shown in **Figure 11**.
2. Using a straightedge and wrench, raise the rollers on their eccentric shafts 0.002" to 0.020" above the table surface **Figure 12**.
3. Tighten the eccentric set screws and recheck the roller height, and readjust if required.

Note: For quick and easy table roller setup, consider purchasing a Rotacator. This handy tool allows you to watch the height of the table roller as you adjust it, giving you accuracy within 0.001" every time.

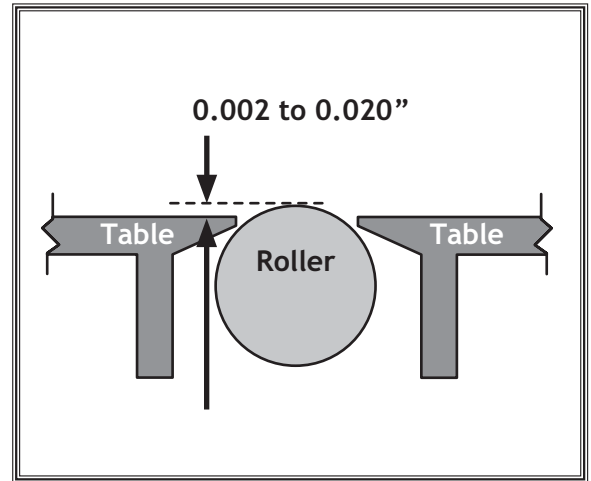


Figure 10. Table roller height principle.

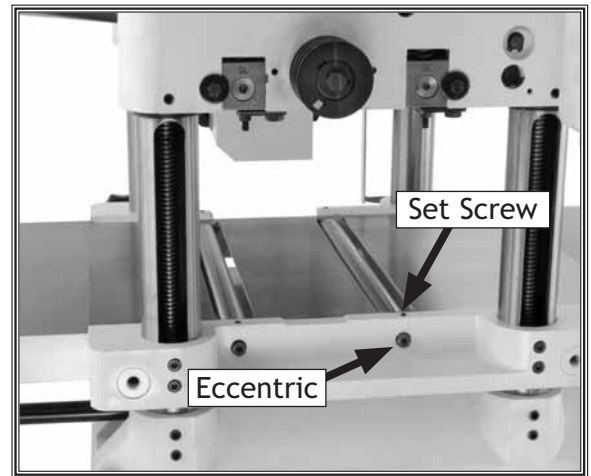


Figure 11. Roller set screws.

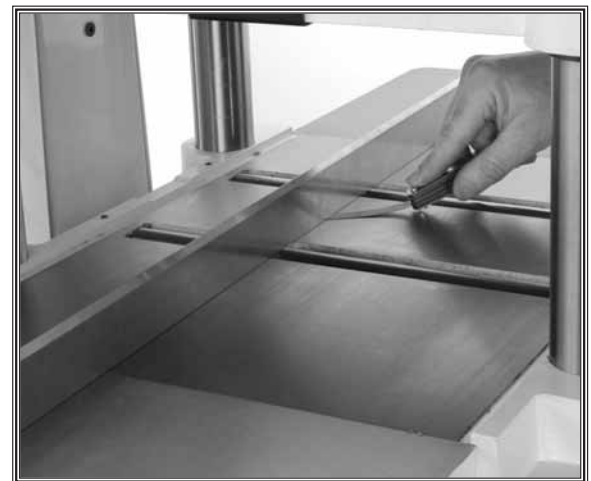


Figure 12. Checking roller height.

SET UP

Checking for Oil

To check the gearbox oil level:

1. Wipe dirt from the gearbox fill plug and remove it (Figure 13).
 - If the oil runs out, the gearbox is full, and reinstall the plug.
 - If the oil does not run out, fill the gearbox until it does, and reinstall the plug.

Note: Replace the gearbox oil after the first 20 hours of operation. This is a normal break-in procedure.

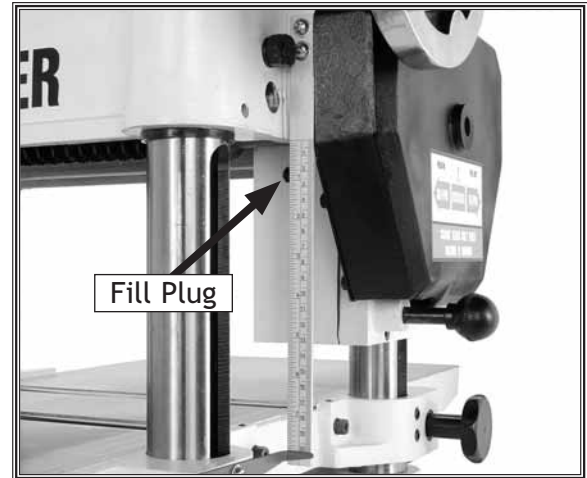


Figure 13. Gearbox Fill Plug.

Test Run

Before starting the machine for the first time, check the gearbox oil level, make sure you have read through the entire manual, and make sure you have performed all required assembly and adjustments. Make sure there are no safety hazards and tools used to assemble/adjust the machine are cleared away.

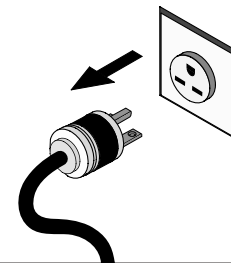
1. Lower the table enough to provide plenty of room for the safe operation of the feed rollers and the cutterhead.
2. Press the START button. Make sure that you remain near the switch in case you have to press the STOP button in an emergency.
3. Pay attention for unusual noises and vibration. If any problem is found, investigate it and correct it before operating the machine any further.

WARNING



Always wear safety glasses when operating the planer. Failure to comply with this warning may result in serious personal injury.

WARNING



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

OPERATIONS

General

The Model W1742 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 planer operator before performing any unfamiliar operations. **Above all, your safety should come first!**

WARNING



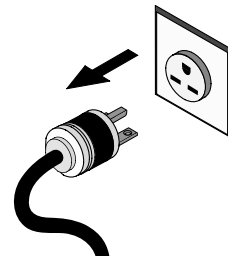
READ and understand this entire instruction manual before using this machine. Serious personal injury may occur if safety and operational information is not understood and followed. Ensure safety and read this manual!

WARNING



Always wear safety glasses when operating the planer. Failure to comply with this warning may result in serious personal injury.

WARNING



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

Feed Rate

NOTICE

The machine must be running in order to change the feed rate. Never change the feed rate while the planer is operating, otherwise damage to the gearbox will occur.

The feed rate is the speed that the rollers drive the workpiece through the planer. The Model W1742 features 16 and 30 FPM feed rates.

As a general rule, the faster feed rate will dimension lumber quicker but leave a rougher finish; the slower feed rate will have the opposite effect and leave a smoother finish. Often, a small amount of trial-and-error will be the best way to determine which setting is right for your particular application.

To change the feed roller speed, locate the feed rate knob shown in **Figure 14**. The machine must be running in order to change speeds; however, you should NEVER be planing stock through the machine when you switch speeds. Start the planer and adjust the knob as illustrated in **Figure 15**.

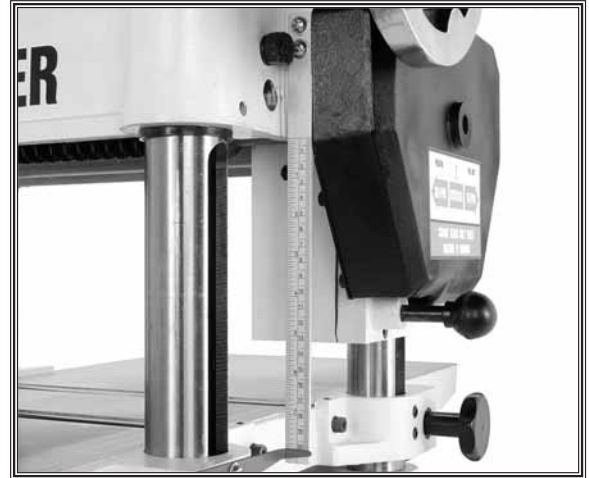


Figure 14. Feed knob location.

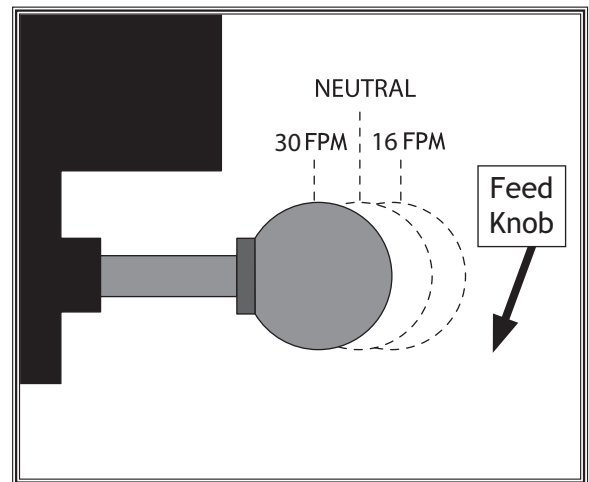


Figure 15. Feed positions.

Operational Tips

- Carefully inspect any lumber that you plan to run through the planer. Each board must have at least one flat surface to slide along the planer table. To create a flat surface, pass the stock over a jointer first. See **Figure 16**. Some defects such as moderate twisting, loose knots or severe cracks may make the stock unusable.
- Only use clean stock. See **Figure 17**. Scrape off all glue from joined boards before planing. Remove all dirt, nails, staples, imbedded gravel, etc. from any lumber you plan on using. A hidden nail in a workpiece will instantly damage the sharp edges of the knives. This will cause unsatisfactory results in future operations.
- Plane ONLY natural wood fiber. Never plane wood composites such as particle board, plywood or MDF. Never plane laminates, laminant, or other synthetic materials.
- Surface wood in the same direction as the grain. Never feed end-cut or end-grained lumber into the planer.
- Keep your work area clear. Always make sure that long workpieces are supported and have enough room to exit the planer.
- When making multiple passes with long stock, use the top rollers to move material back to the infeed side of the planer.
- Avoid planing wood with a high moisture content. Stock with more than 20% moisture, or stock that has been exposed to rain or snow, will plane poorly and cause unnecessary wear on the knives and motor. Excess moisture may also cause rust or corrosion problems.

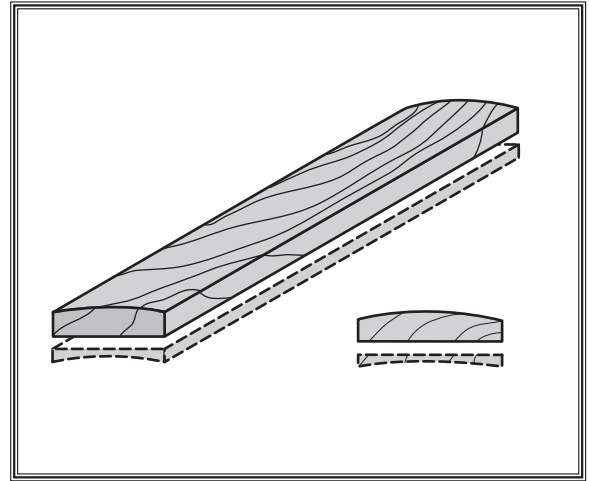


Figure 16. Cupped board corrected.

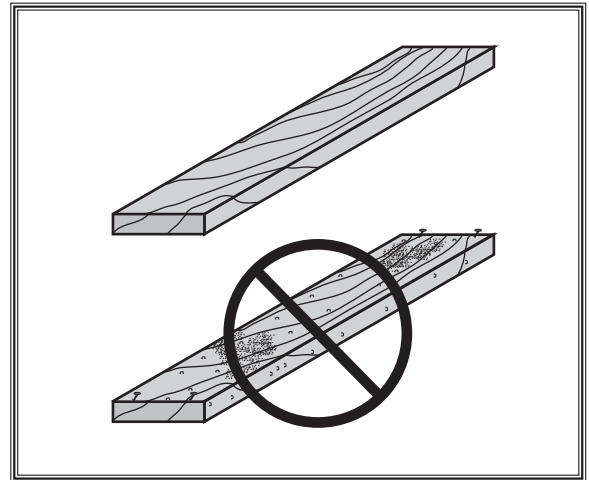


Figure 17. Good and poor lumber.

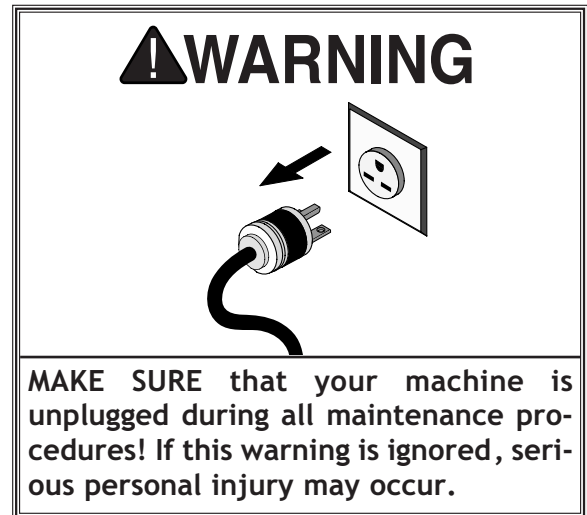
MAINTENANCE

General

Regular periodic maintenance on your **SHOP FOX®** Model W1742 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.
- Worn switch.
- Worn or damaged cords and plugs.
- Damaged V-belt.
- Any other condition that could hamper the safe operation of this machine.



Cleaning

Frequently remove sawdust with compressed air. This is especially important for the internal working parts and motor. Dust build-up is a sure way to decrease machine and motor life. If any essential lubrication is removed during cleaning, relubricate those areas.

Table and Base

Tables can be kept rust-free with regular applications of products like SLIPIT®. For long term storage you may want to consider products like Boeshield T-9™.

Basic Adjustment Tools

We have provided a jig to make the knife setting process easy and quick. Please refer to **Figure 18** for jig component identification while assembling.

To assemble the knife setting jig:

1. Snap one of the E-clips over the notch on one end of the knife setting rod.
2. Slide the aluminum knife setting jig saddles onto the rod.
3. Snap the other E-clip on the other end of the knife setting rod.

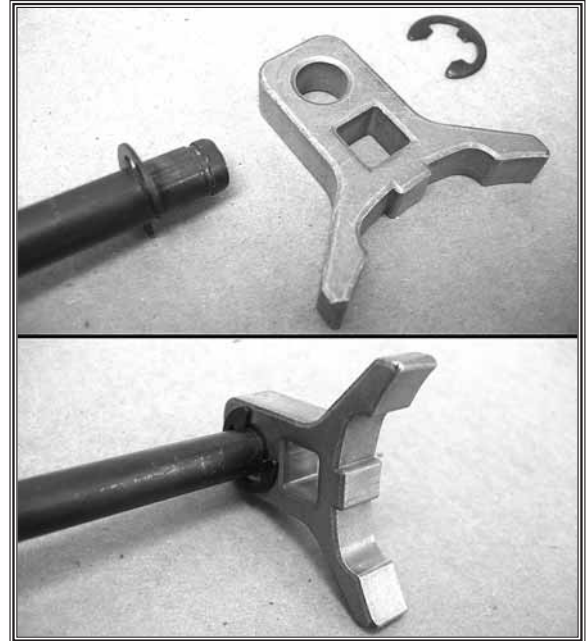


Figure 18. Provided Knife setting gauge.

Optional Adjustment Tools

To make the setup process easier and more accurate, many woodworkers purchase optional aftermarket products like the **Rotacator®** and the **Planer Pal®**.

- **Rotacator** – A rotating dial indicator on a magnetic base. This handy device allows you to set your table within 0.001" from being parallel with the cutterhead. The Rotacator is indispensable when adjusting the chip breaker, table rollers, feed rollers, and measuring table roller protrusion shown in **Figure 19**.
- **Planer Pal** – Using powerful neodymium magnets, Planer Pal (**Figure 20**) hold knives in place while freeing both hands to tighten the gib. Place one of these jigs on each end of the cutterhead, and you can set the knives in perfect alignment every time.



Figure 19. Rotacator measuring table roller protrusion.



Figure 20. Planer Pal jigs holding knives for superior adjustment.

Lubrication

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

The Model W1742 does need lubrication in other places.

- **Columns and Lead Screws:** Lubricate columns weekly with light oil, and lubricate the four lead screws once a month with general purpose grease.
- **Worm Gear:** Inspect the worm gear monthly and lubricate when needed. The worm gear box will need to be removed to perform the inspection (see **Figure 21**).
- **Chain:** Inspect the table height adjustment chain monthly and lubricate as needed. Use high quality chain lubricant for best results.
- **Gear Box:** Drain the gear box after the first 20 hours of operation. **Figure 22** shows the gear box drain and fill plugs. Refill with 80-90W gear oil. The oil level should reach the top of the filler plug port. After the initial change, inspect fluid levels periodically and change yearly. *If your planer receives heavy use, change the gear oil more frequently.*
- **Drive Chain:** Inspect and lubricate the drive chain monthly. Check the sprockets, the chain, and the master links during inspection. Use a general purpose grease to lubricate the chain.
- **Feed Rollers:** Lubricate feed rollers daily before start-up. **Figure 23** shows the lubrication points for the feed rollers. These are screws that have holes drilled through them to allow oiling. Make sure that dust is not trapped in these screws and apply two drops of light oil in each to penetrate the bearings. Do not lubricate more than this or the excess will end up on the floor.

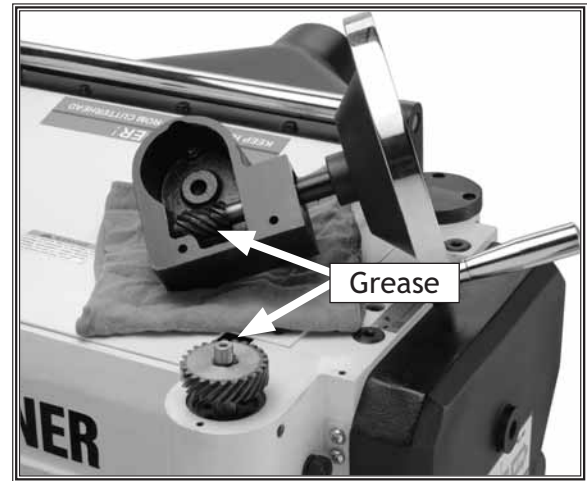


Figure 21. Worm gear lubrication.

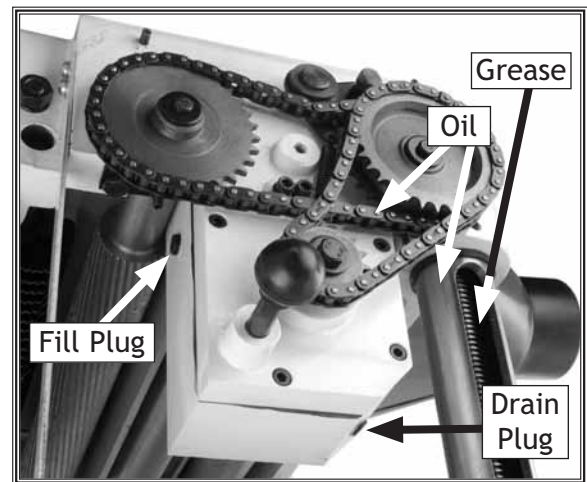


Figure 22. Gear box lubrication.

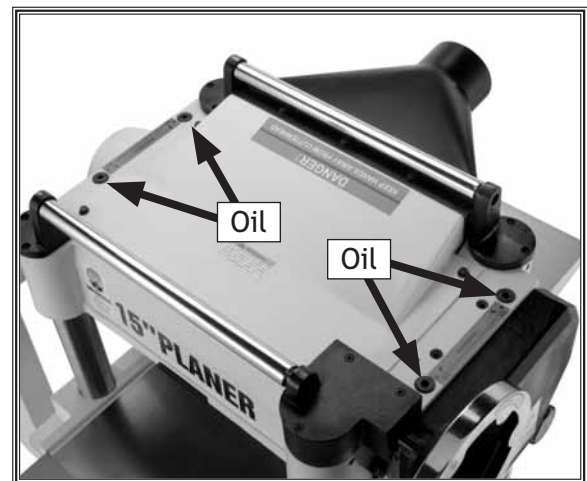


Figure 23. Feed roller lubrication.

Anti-Kickback Pawls

The Model W1742 features anti-kickback pawls (shown in **Figure 24**) as an important safety feature. These safety devices allow the workpiece to enter the planer without affecting the proper operation, but are designed to stop the workpiece from coming back out of the entrance in the event of a kickback.

The anti-kickback pawls should be frequently checked to ensure that they swing free and easy. Do not try to lubricate the pawls. Lubrication may cause dust to build-up, which will restrict movement.

CAUTION

Proper operation of the anti-kickback pawls is essential to the safe operation of the planer. If they aren't working properly, they will not protect you if a kickback occurs.



Figure 24. Anti-kickback pawls.

Belt Tension

Frequently inspect the V-belt tension during the first twenty hours of operation. During this period, the belts will stretch a little and **MUST** be retightened.

To adjust belt tension, lower the motor slightly by loosening the lower check nuts shown in **Figure 25**. When belt tension is satisfactory, tighten the upper check nuts down onto the motor bracket to secure it.

DO NOT over-tighten the check nuts—too much pressure at the wrong angle may break the motor-mount.

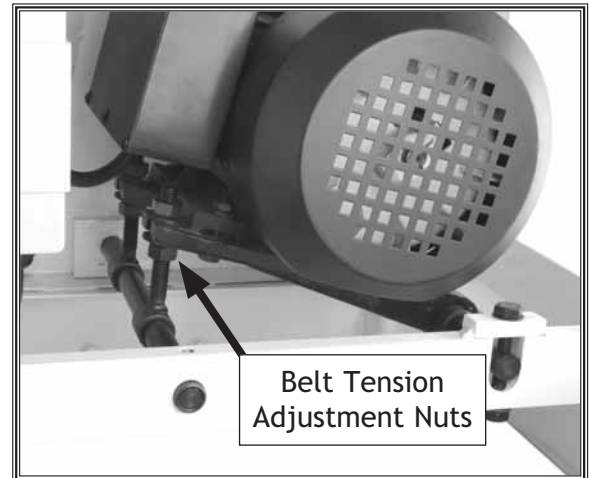


Figure 25. Belt tension adjustment.

Pulley Alignment

The V-belt pulleys should be properly aligned with each other to prevent premature belt wear. Check the alignment with a good quality straightedge as shown in **Figure 26**.

To align the pulleys, do these steps:

1. Loosen the belt tension adjustment nuts so the motor will freely move up and down.
2. Loosen, but do not remove, the four bolts that secure the motor to the motor mounting plate.
3. Slide the motor as needed to align the pulleys.
4. When the pulleys are aligned, tighten the four motor mount bolts.
5. Tension the V-belts and replace the belt cover.



Figure 26. Belt alignment.

Knife Replacement (Jack Screw Style)

The Model W1742 Planer is equipped with both springs and jack screws for knife adjustment. Springs allow adjustments to be made quickly, while jack screws are more accurate. Choose either method that meets your needs. Jack screws support the knives from underneath. By threading the jack screws in or out, you can precisely control the knife height. See **Figure 27** for identification.

	<p>CAUTION</p> <p>WEAR thick gloves when working near planer knives. Otherwise you can be severely cut!</p>
--	--

To replace and adjust the knives using the jack screws, do these steps:

1. UNPLUG THE PLANER!
2. Loosen the gib bolts and remove the gib and old knives.
3. Remove all of the springs and keep them in a safe place for later optional use.
4. Clean the gib and knife groove in the cutterhead.
5. Place the new knives, gibs, and gib bolts back in the cutterhead as they were before removal. Make sure the knives are resting on the jack screws when you install them.
6. Place the knife setting jig on the cutterhead so both feet sit solidly on the body of the cutterhead.
 - If the knife does not allow the jig to sit on the cutterhead evenly, raise or lower the knife with the jack screws to adjust as needed.
7. Lightly snug the gib bolts (**Figure 28**) to hold the knife in position.
8. Tighten the knives by following the **Knife Tightening** instructions on **Page 26**.

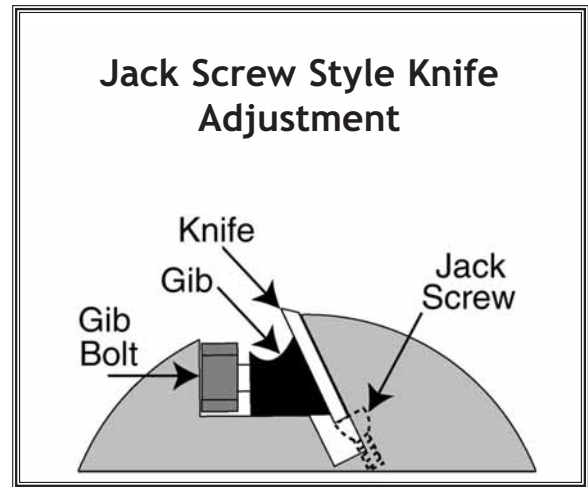


Figure 27. Jack screw system.



Figure 28. Gib tightening.

Knife Replacement (Spring Style)

The Model W1742 Planer is equipped with both springs and jack screws for knife adjustment. Springs allow adjustments to be made quickly, while jack screws are more accurate. Choose either method that meets your needs. Springs exert upward pressure under the knives while wedge-type gibs and gib bolts lock the knives in place. See **Figure 29** for cutterhead assembly identification.



To replace and adjust the knives using the springs, do these steps:

1. UNPLUG THE PLANER!
2. Lower the jack screws completely to get them out of the way.
3. Remove the gib bolts, gibs, and the old knives. Place for later optional use.
4. Clean the gib and knife groove in the cutterhead.
5. Install the new knives.
6. Install the gibs, and lightly install the gib bolts so the knife will slide upward from spring pressure.
7. Place the knife setting jig on the cutterhead so both feet sit solidly on the cutterhead and so that the center of the jig pushes down on the knife.
8. Place equal pressure on both ends of the jig so the jig is parallel with the cutterhead, and the knife is set.
9. Lightly snug gib bolts (**Figure 30**) to hold the knife in position.
10. Tighten the knives by following the **Knife Tightening** instructions on **Page 26**.

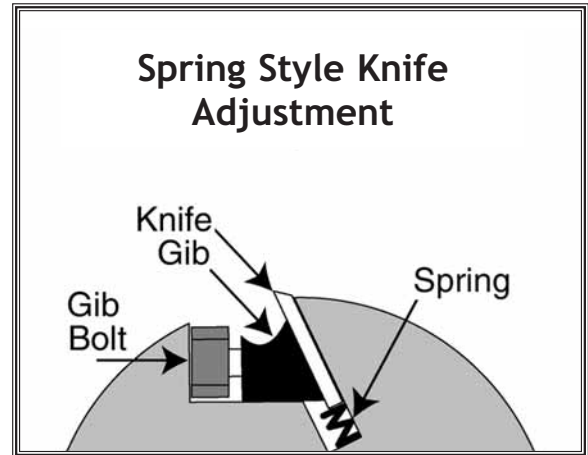


Figure 29. Spring system.

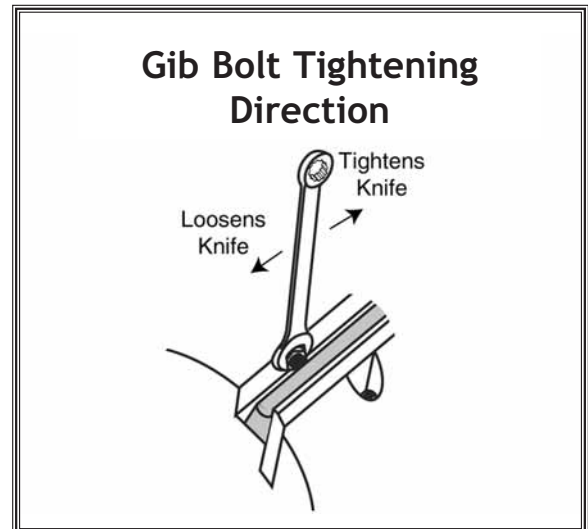


Figure 30. Gib tightening.

Knife Tightening

To tighten the knives after adjustment, do these steps:

1. UNPLUG THE PLANER!
2. Alternating back-and-forth, lightly snug the gib bolts by following the tightening sequence shown in **Figure 31**, but **DO NOT** tighten the bolts completely.
3. Rotate the cutterhead to the next knife and repeat **Step 2**, and then repeat again with each knife. When all knife gib bolts have been snugged, and you come back to the knife you started with, check the knife height with the jig to make sure that it is still set correctly.
 - If the height is incorrect, readjust as necessary and re-slug the gib bolts.
 - If the height is correct, snug each bolt down a little more in the same alternating method as in **Step 2**, but **DO NOT** tighten the bolts completely. Repeat this tightening sequence again with each knife.
4. When you return to the original knife, tighten all gibs completely in the same fashion, repeating on all knives.
5. Recheck the knife height on all knives with the jig to make sure that the height is still correct.
 - If the height is incorrect, repeat **Steps 2** through **5** until correct.

NOTICE

Uneven tightening or over-tightening the gib bolts may warp the cutterhead, causing it to become unbalanced, which will lead to premature knife and bearing wear from vibration.



Figure 31. Knife tightening sequence.

Table Adjustment

The table has been pre-set at the factory, but it is a good idea to check any machine thoroughly before use.

There are two directions you should be concerned about. When checking/adjusting the table, the table should be parallel with the head casting from front-to-back, and the table should be parallel with the cutterhead body from side-to-side.

To check the table, do these steps:

1. MAKE SURE MACHINE IS UNPLUGGED!
2. Use the plans shown in **Figure 32** to make a wooden gauge block.
3. Place the block on one end of the table, directly under the cutterhead body. Raise the table up so the block only touches the cutterhead body (keep knives rotated out of the way for this step).
4. Without moving the table, slide the block of wood to the other end of the cutterhead. If the block of wood will not fit, or if the block is below the cutterhead body, measure this gap with a feeler gauge. If the difference is more than 0.002", then the table needs to be adjusted from left to right.
5. Place the block under the front of the head casting, to either side of the depth limiter tab. Raise the table up so the block barely touches the head casting as shown in **Figure 33**.
6. Remove the block and place it between the middle-rear of the head casting and the table. If there is a gap or it will not fit under the head casting, measure the difference with a feeler gauge. If this measurement is more than 0.002", then the table needs to be adjusted from front to back.
7. There are two methods to adjust the table on the Model W1742. The first is for adjustments smaller than 0.016" and the second is for adjustments larger than 0.016".

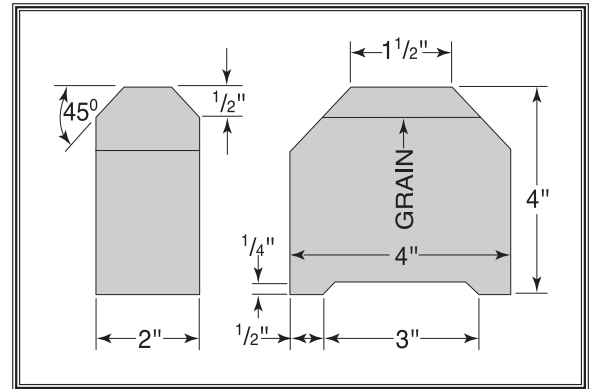


Figure 32. Gauge block plans.



Figure 33. Block position.

To adjust the table more than 0.016", do these steps:

1. Remove the side cabinet plate.
2. On the underside of the table there is a chain drive and five sprockets as shown in **Figure 34**. The four sprockets in the corners control the movement of the table columns. The fifth sprocket is the idler sprocket that controls the chain tension. Loosen the two bolts on the idler sprocket bracket (**Figure 34**) to loosen the chain so that each sprocket can be rotated on its own. Make sure to hold the chain away from the sprocket while you adjust it.
3. Moving the sprockets clockwise lowers the table and moving them counterclockwise raises the table. Each tooth on the corner sprockets equals 0.016" of vertical movement when the cogs are turned (See illustration in **Figure 35**). Make sure, as you adjust each sprocket, that you count the number of teeth that pass a fixed point.
4. After you have the table adjusted to within 0.016" from front-to-back and from side-to-side, tighten the chain so all of the slack is removed.
5. Now follow the next instructions for adjusting the table when it is less than 0.016" from its proper position.



Figure 34. Chain drive system.

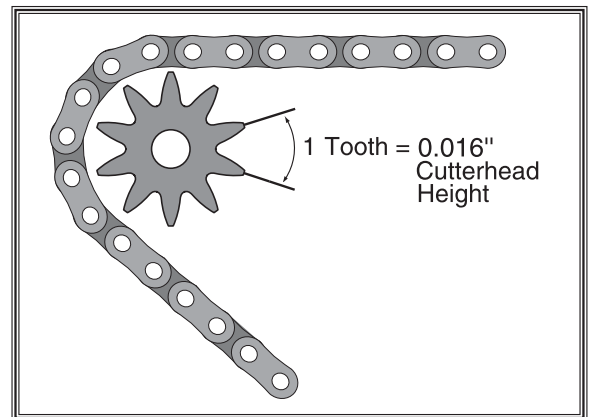


Figure 35. Sprocket ratio.

To adjust the table less than 0.016", do these steps:

1. Use the table mounting screws shown in **Figure 36**. Loosen the screws and lift/lower the table until the table and the cutterhead body are parallel with each other and the table is parallel with the head casting from front to back. This may require some trial and error.
2. Adjust each column on both sides until the table is properly set. While adjusting the columns, tighten each screw after each step to ensure accurate results.

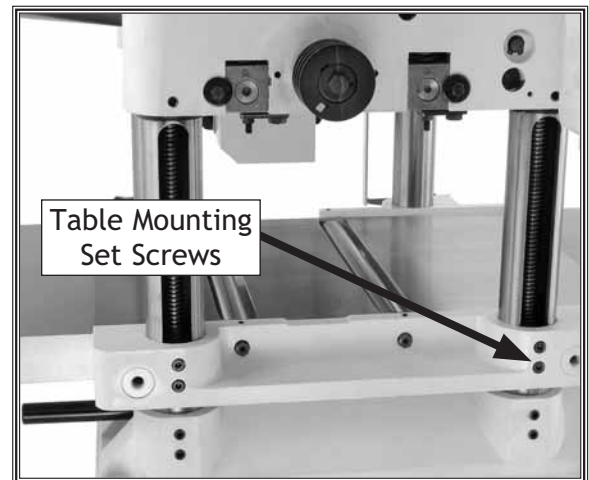


Figure 36. Table mounting screws.

Feed Roller and Chip Breaker Adjustment

To perform this adjustment accurately, you will need a dial indicator or Rotocator (not included).

The feed rollers and the chip breaker are factory set for general planing. If you need to alter the settings or reset them after maintenance, these components can be adjusted at the same time, assuming that the knife height is set correctly.

The standard setting for the infeed roller and the chip breaker is 0.004"-0.008" below the cutterhead knife at BDC (bottom dead center). The outfeed roller should be set an additional 0.020" below the cutterhead.

To adjust the feed rollers and the chip breaker, do these steps:

1. DISCONNECT THE MACHINE FROM POWER!
2. Loosen four table roller set screws shown in **Figure 37**, and use a wrench to turn the eccentrics and lower the rollers below the table surface.
3. Rotate the cutterhead with the V-belt pulley so one of the knives is at BDC as shown in **Figure 38**.

Note: *This lowest point of knife sweep can be found with a Rotocator as shown in **Figure 38**, or it can be found using the gauge boards and listening and feeling when the knife just touches the gauge board as the knife sweeps at its lowest point.*

4. Cut two gauge boards that are the same height and are long enough to span the entire length of the table (see **Figure 39**).
5. Place each board across the entire length of the table as shown in **Figure 39**.

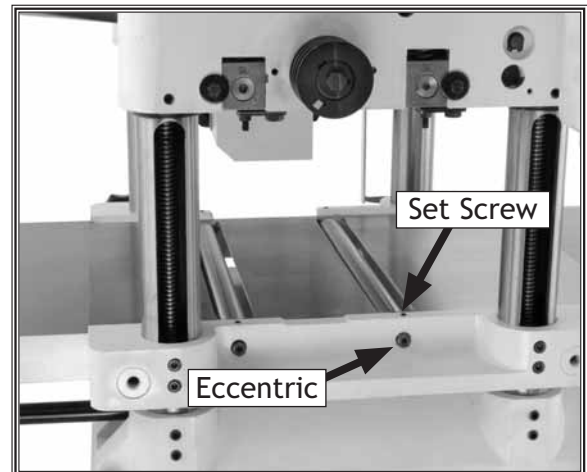


Figure 37. Table roller adjustment.



Figure 38. Finding BDC of cutterhead.



Figure 39. Gauge boards installed.

6. Raise the table up until the boards barely touch the knife edge that is at BDC.
7. Lower the feed rollers onto the boards with the adjustment stud shown in **Figure 40**.
8. Lower the chip breaker onto the boards, using the adjustment set screws shown in **Figure 41**.

Note: Make sure that both the feed roller and the chip breaker adjustments are backed off enough so when the table is lowered to the appropriate level, the feed rollers and the chip breaker will follow the table downward below their current position.

9. Place the dial indicator or Rotocator against the headstock directly above the table.
10. Position the indicator plunger on the table and lower the table 0.004"-0.008".
11. Lock the infeed roller and the chip breaker in place. They should now all be set between 0.004"-0.008" below the knife edge when it is at BDC.

Note: The outfeed roller should still be able to move downward with the table for the final adjustment.

12. Continue lowering the table another 0.012" (0.008" + 0.012" = 0.020"), lock the outfeed roller in place and remove the gauge boards. The outfeed roller should now be set to approximately 0.020" below the knife edge at BDC.
13. Use a wrench and raise the rollers on their eccentric shafts 0.002" to 0.020" above the table surface (**Figure 42**).
14. Tighten the eccentric set screws shown in **Figure 37**, recheck the roller height, and readjust if required.

Note: If the table rollers are out of square with one another in the vertical plane, or they are out of square with the table surface, the workpiece will chatter, rotate, or hang during planing. Take the time to do this adjustment perfectly.

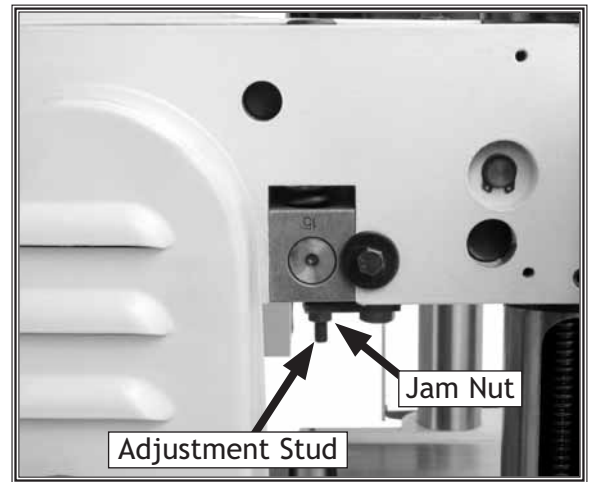


Figure 40. Feed roller height adjustment.



Figure 41. Chip breaker height adjustment.

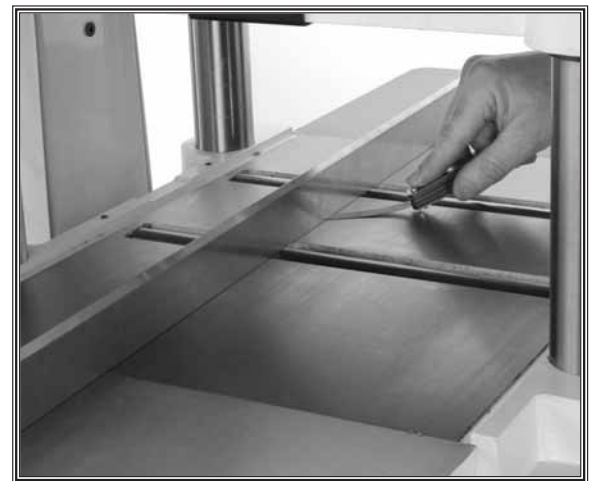


Figure 42. Setting table roller height.

Roller Spring Tension

Roller spring tension must be adjusted so that roller pressure is uniform. Roller spring tension will vary, depending on the type of wood you plane. This is usually determined from trial-and-error.

Generally speaking, less spring tension is more forgiving on workpieces. Therefore, if you primarily plane milled lumber with relatively consistent surfaces, you can get away with having less spring tension. Likewise, if you primarily plane rough lumber with inconsistent surface heights, more spring tension is a must to keep the workpiece feeding through the planer without stopping.

If workpieces regularly stop feeding during operation, it may be a sign of weak spring tension.

To adjust roller spring tension, do these steps:

1. Locate the four adjustment screws located on the top of the planer, as shown in **Figure 43**.
2. Adjust tension screws so they protrude to the value shown in **Figure 43**.

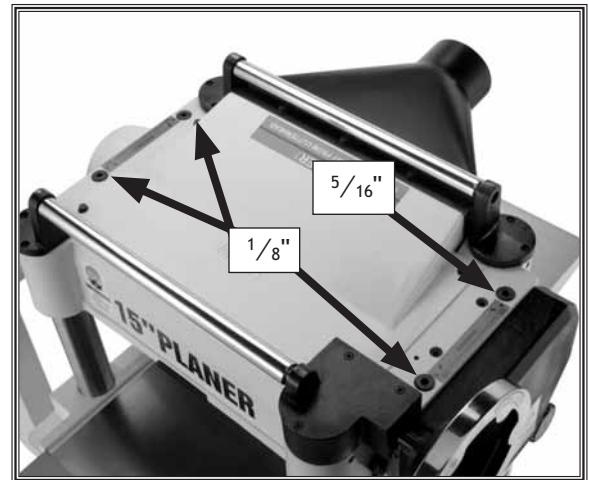


Figure 43. Roller spring tension plug protrusion.

Chip Deflector

A chip deflector is mounted behind the cutterhead to keep wood chips from falling onto the outfeed roller.

To adjust the chip deflector, do these steps:

1. Loosen the chip deflector mounting bolts shown in **Figure 44**.
2. Make sure the deflector is angled toward the cutterhead.
 - If a dust collector is used, adjust the gap between the deflector and the knife edge to $1/4$ ".
 - If a dust collector is not used, adjust the gap between the deflector and the knife edge to $1/16$ ".
3. Rotate the cutterhead by hand using the V-belt pulley and make sure there is enough clearance between all the knives and the chip deflector.
4. Re-tighten the mounting bolts and replace the top cover.

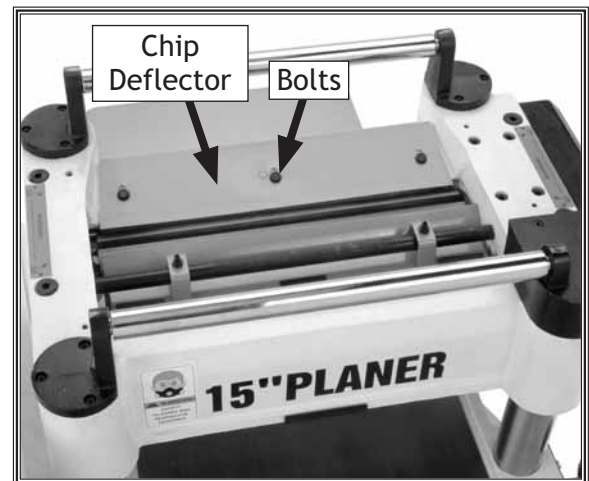
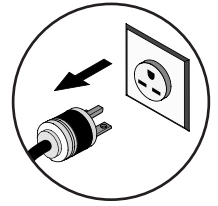


Figure 44. Chip deflector.

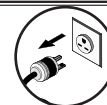
Troubleshooting



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!

Symptom	Possible Cause	Possible Solution
Motor will not start.	<ol style="list-style-type: none"> 1. Thermal overload relay inside magnetic switch has tripped. 2. Low voltage. 3. Open circuit in motor or loose connections. 	<ol style="list-style-type: none"> 1. Press the RESET button on the thermal overload relay; investigate reason it tripped to prevent future problems. 2. Check power line for proper voltage. 3. Inspect all lead connections on motor for loose or open connections.
Fuses or circuit breakers blow.	<ol style="list-style-type: none"> 1. Short circuit in line cord or plug. 	<ol style="list-style-type: none"> 1. Repair or replace cord or plug for damaged insulation and shorted wires.
Motor fails to develop full power (output of motor decreases rapidly with decrease in voltage at motor terminals).	<ol style="list-style-type: none"> 1. Power line overloaded with lights, appliances, and other motors. 2. Undersized wires or circuits too long. 3. Motor run capacitor at fault. 	<ol style="list-style-type: none"> 1. Reduce load on power line. 2. Increase wire sizes or reduce length of the circuit. 3. Replace run capacitor.
Motor overheats.	<ol style="list-style-type: none"> 1. Motor overloaded during operation. 2. Air circulation through the motor restricted. 	<ol style="list-style-type: none"> 1. Reduce cutting load; take lighter cuts. 2. Clean out motor to provide normal air circulation.
Motor stalls or shuts off during a cut.	<ol style="list-style-type: none"> 1. Motor overloaded during operation. 2. Thermal overload protection tripped in magnetic switch. 3. Short circuit in motor or loose connections. 4. Circuit breaker tripped. 	<ol style="list-style-type: none"> 1. Reduce cutting load; take lighter cuts. 2. Press the RESET button on the thermal overload relay, located inside the magnetic switch. 3. Repair or replace connections on motor for loose or shorted terminals or worn insulation. 4. Install correct circuit breaker; reduce # of machines running on that circuit.
Cutterhead slows or squeals when cutting, especially on start-up.	<ol style="list-style-type: none"> 1. V-belt loose. 2. V-belt worn out. 	<ol style="list-style-type: none"> 1. Tighten V-belt (Page 23). 2. Replace V-belt (Page 23).
Loud repetitious noise coming from machine.	<ol style="list-style-type: none"> 1. Pulley setscrews or keys are missing or loose. 2. Motor fan is hitting the cover. 3. V-belts are damaged. 	<ol style="list-style-type: none"> 1. Inspect keys and setscrews. Replace or tighten if necessary. 2. Adjust fan cover mounting position, tighten fan, or shim fan cover. 3. Replace V-belts (Page 23).
Vibration when running or cutting.	<ol style="list-style-type: none"> 1. Loose or damaged blade. 2. Damaged V-belt. 3. Worn cutterhead bearings. 	<ol style="list-style-type: none"> 1. Tighten or replace blade. 2. Replace. 3. Check/replace cutterhead bearings.
Table move down while planing.	<ol style="list-style-type: none"> 1. Dull knives. 2. Table is loose. 	<ol style="list-style-type: none"> 1. Sharpen or replace. 2. Lock knobs are loose. or replace lock mechanism.

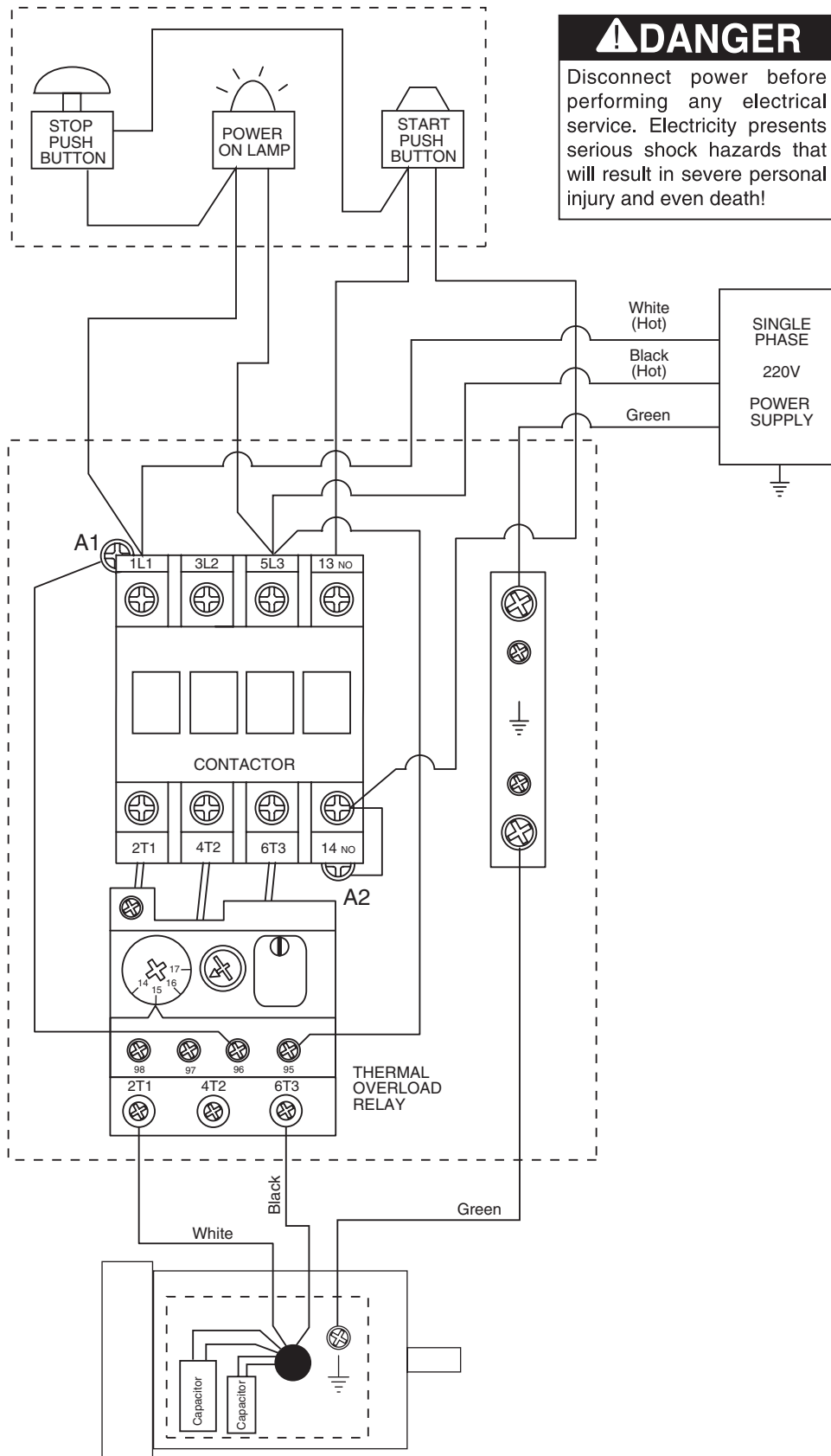
MAINTENANCE

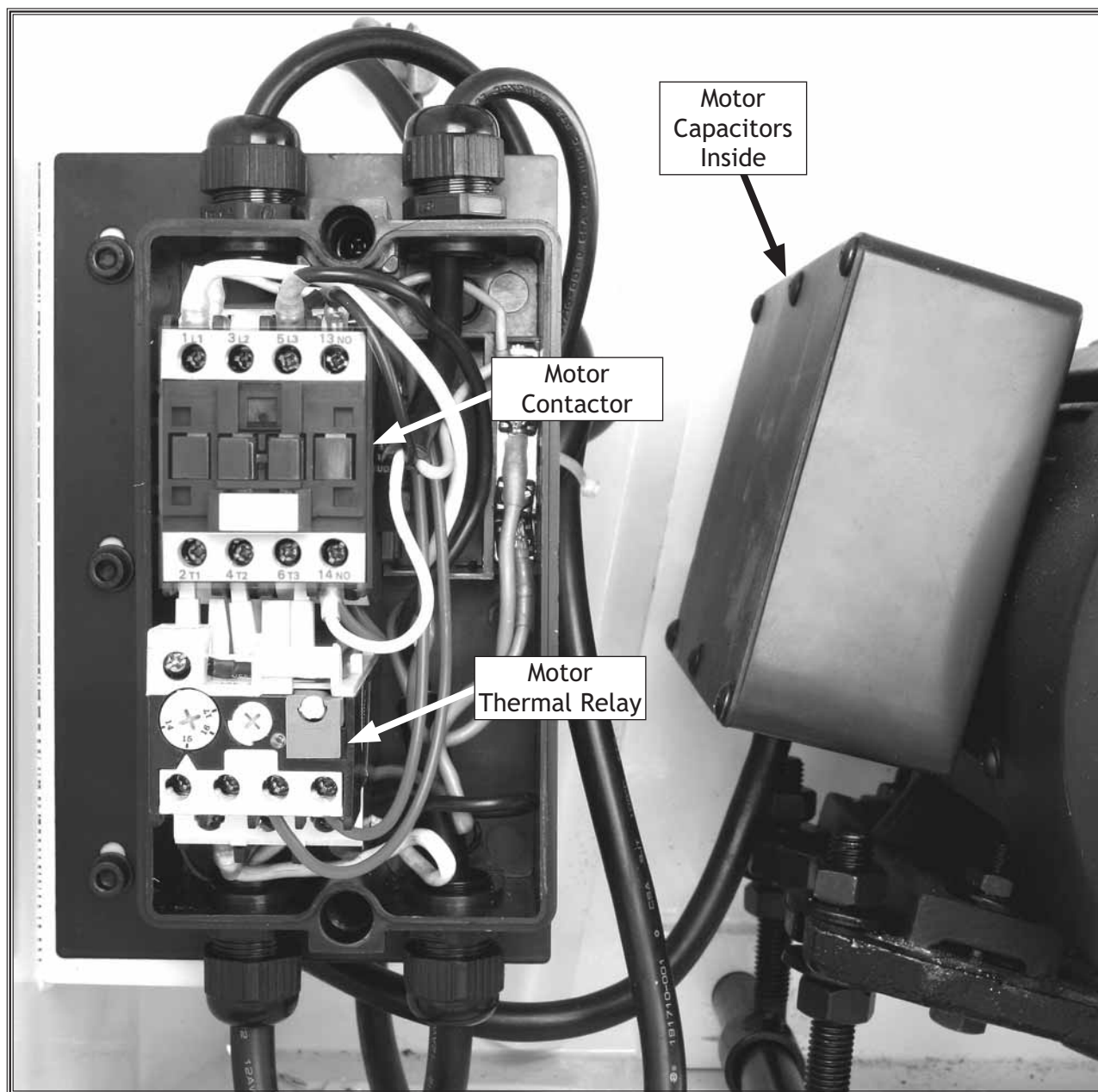
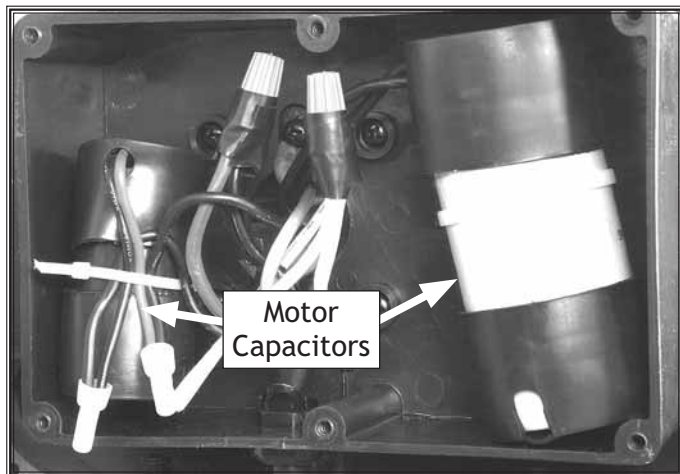
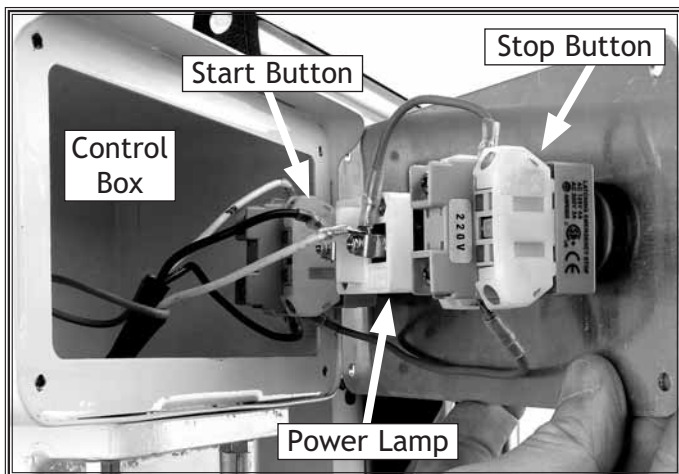


Troubleshooting

Symptom	Possible Cause	Possible Solution
Excessive snipe (gouge in the end of the board that is uneven with the rest of the cut). <i>Note: A small amount of snipe is inevitable with all types of planers. The key is minimizing it as much as possible.</i>	<ol style="list-style-type: none"> 1. One or both of the table rollers are set too high. 2. Outfeed extension slopes down or is not level with the main table. 3. Chip breaker or pressure bar set too low. 4. Workpiece is not supported as it leaves the planer. 	<ol style="list-style-type: none"> 1. Lower the table rollers (Page 14). 2. Shim the outfeed extension wing level with the main table. 3. Raise the height of the chip breaker (Page 29). 4. Hold the workpiece up slightly as it leaves the outfeed end of the planer.
Workpiece stops/slows in the middle of the cut.	<ol style="list-style-type: none"> 1. Taking too heavy of a cut. 2. One or both of the table rollers are set too low or too high. 3. Chip breaker is set too low. 4. Feed rollers set too low or too high. 5. Table not parallel with head casting. 6. Pitch and glue build up on planer components. 	<ol style="list-style-type: none"> 1. Take a lighter cut. 2. Lower, raise, or align the table rollers (Page 14). 3. Raise the height of the chip breaker (Page 29). 4. Adjust the feed rollers to the correct height (Page 29). 5. Adjust the table so it is parallel to the head casting. 6. Clean the internal cutterhead components with a pitch/resin dissolving solvent.
Chipping (consistent pattern).	<ol style="list-style-type: none"> 1. Knots or conflicting grain direction in wood. 2. Nicked or chipped knife. 3. Feeding workpiece too fast. 4. Taking too deep of a cut. 5. Misaligned chip breaker. 	<ol style="list-style-type: none"> 1. Inspect workpiece for knots and grain direction; only use clean stock. 2. Replace the damaged knife (Page 24), or have it sharpened. 3. Slow down the feed rate (Page 17). 4. Take a smaller depth of cut. (Always reduce cutting depth when surface planing or working with hard woods.) 5. Adjust both sides of the chip breaker to the correct height (Page 27).
Fuzzy grain.	<ol style="list-style-type: none"> 1. Wood may have high moisture content or surface wetness. 2. Dull knives. 	<ol style="list-style-type: none"> 1. Check moisture content and allow to dry if moisture is too high. 2. Replace the knives (Page 24) or have them professionally sharpened.
Long lines or ridges that run along the length of the board	<ol style="list-style-type: none"> 1. Nicked or chipped knife(s). 	<ol style="list-style-type: none"> 1. Replace the knives (Page 24) or have them professionally sharpened.
Uneven knife marks, wavy surface, or chatter marks across the face of the board.	<ol style="list-style-type: none"> 1. Feeding workpiece too fast. 2. Chip breaker or pressure bar set unevenly. 3. Knives not installed evenly. 4. Worn cutterhead bearings. 	<ol style="list-style-type: none"> 1. Slow down the feed rate. 2. Adjust the height of the chip breaker (Page 29). 3. Adjust the knives with the knife gauge. 4. Replace cutterhead bearings.
Glossy surface.	<ol style="list-style-type: none"> 1. Knives are dull. 2. Feed rate too slow. 3. Cutting depth too shallow. 	<ol style="list-style-type: none"> 1. Replace the knives (Page 24) or have them professionally sharpened. 2. Increase the feed rate (Page 17). 3. Increase the depth of cut.
Chip Marks (inconsistent pattern).	<ol style="list-style-type: none"> 1. Chips aren't being properly expelled from the cutterhead. 	<ol style="list-style-type: none"> 1. Use a dust collection system; adjust the chip deflector in or out depending on your setup (Page 31).

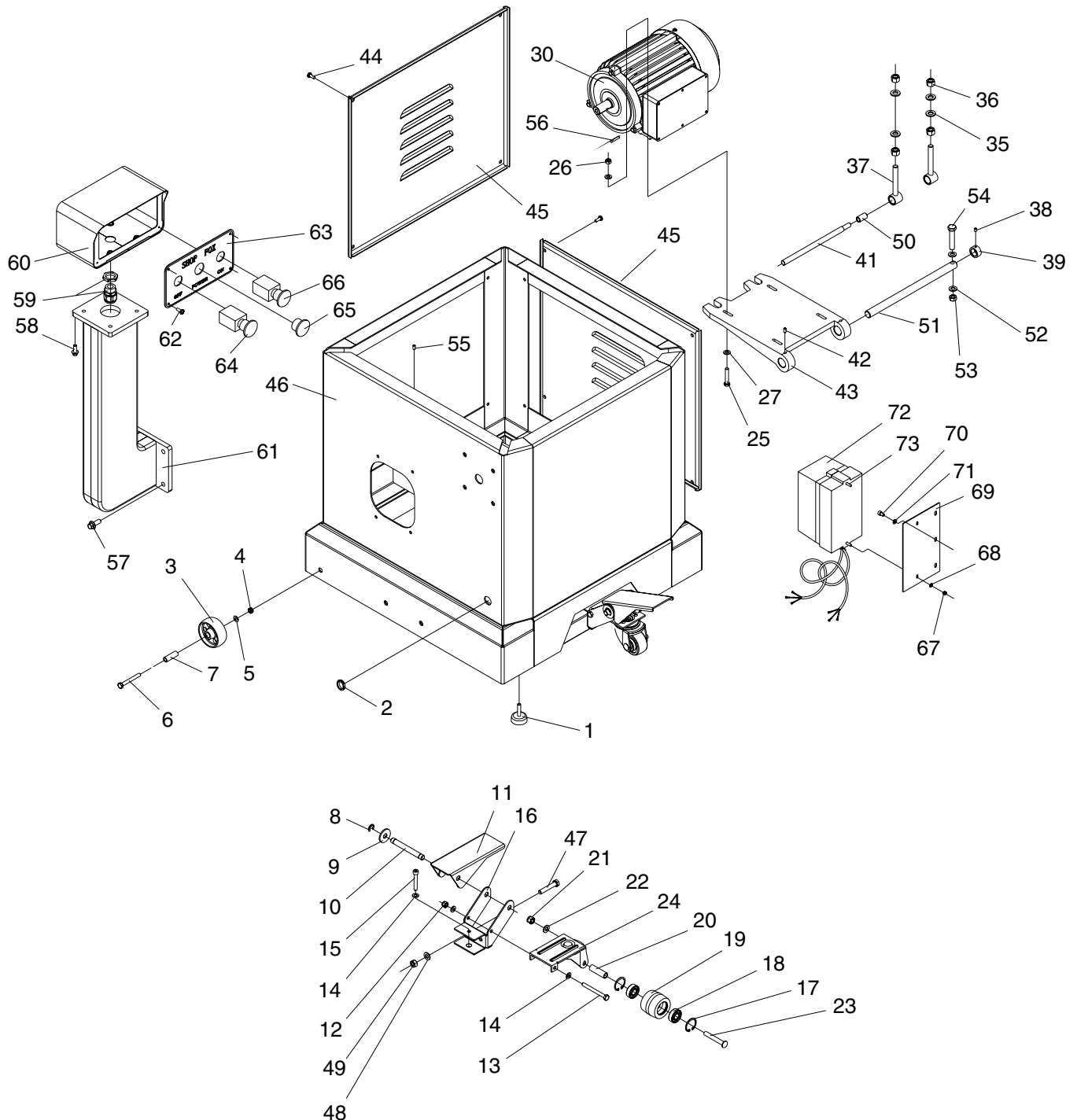
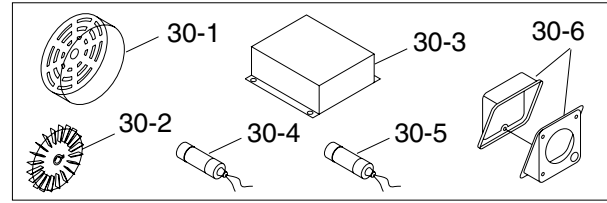
220V Single Phase Wiring Diagram





PARTS

Cabinet Diagram

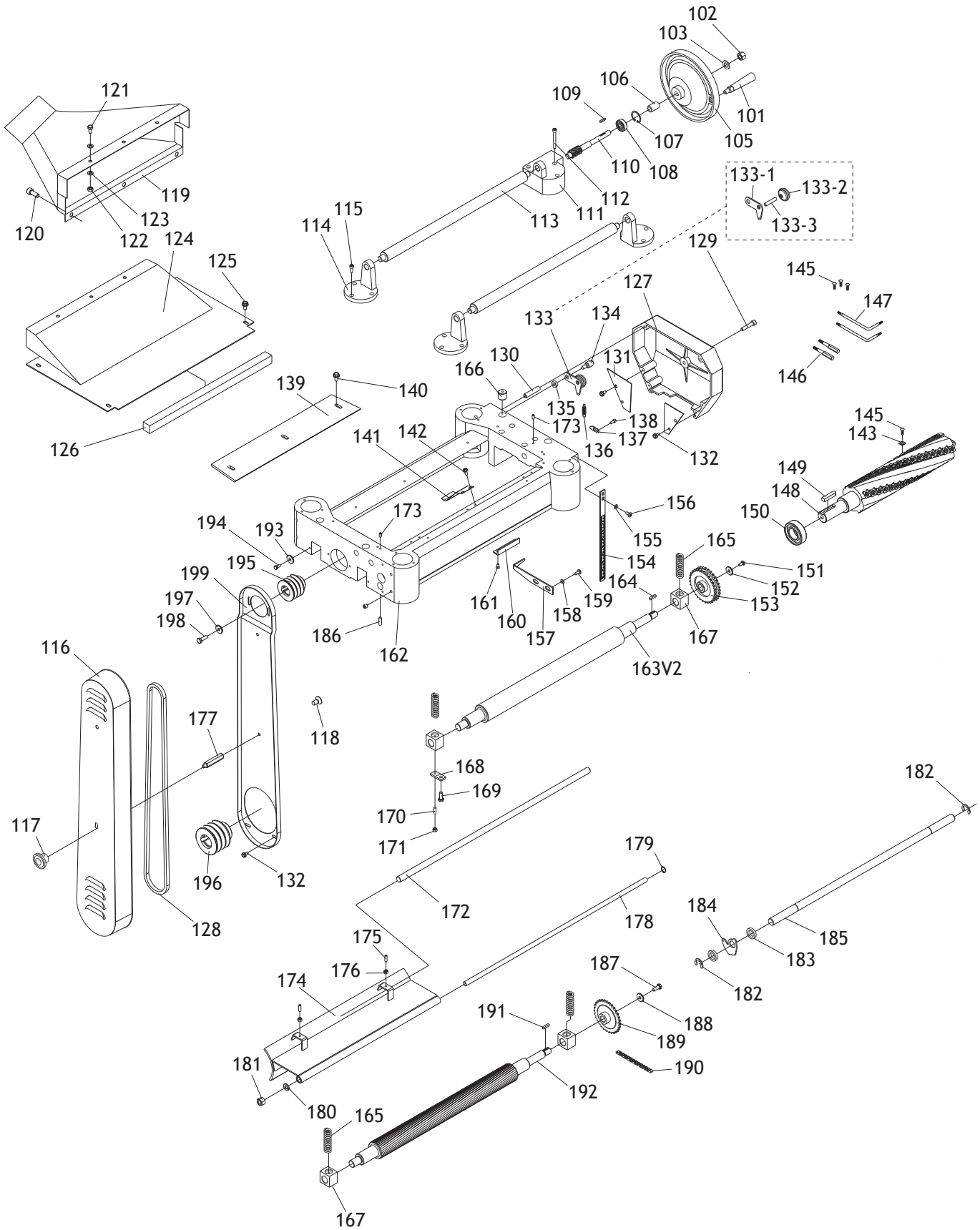


Cabinet Parts List

REF	PART #	DESCRIPTION
1	X1742001	RUBBER FEET
2	X1742002	STRAIN RELIEF
3	X1742003	UNIVERSAL PULLEY
4	XPNO3M	HEX NUT M8-1.25
5	XPW01M	FLAT WASHER 8MM
6	XPB86M	HEX BOLT M8-1.25 X 65
7	X1742007	SLEEVE
8	XPR16M	EXT RETAINING RING 9MM
9	XPW06M	FLAT WASHER 12MM
10	X1742010	SHAFT 12MM
11	X1742011	PEDAL
12	XPNO3M	HEX NUT M8-1.25
13	XPB45M	HEX BOLT M8-1.25 X 100
14	XPW01M	FLAT WASHER 8MM
15	XPB22M	HEX BOLT M8-1.25 X 50
16	X1742016	BRACKET
17	XPR21M	INT RETAINING RING 35MM
18	XP6202	BALL BEARING 6202
19	X1742019	TROLLEY WHEEL
20	X1742020	SLEEVE
21	XPLN09M	LOCK NUT M12-1.75
22	XPW06M	FLAT WASHER 12MM
23	X1742023	SPECIAL BOLT
24	X1742024	TROLLEY UNIVERSAL KIT
25	XPB118M	HEX BOLT M8-1.25 X 45
26	XPNO3M	HEX NUT M8-1.25
27	XPW01M	FLAT WASHER 8MM
30	X1742030	MOTOR 3HP 220V
30-1	X1742030-1	MOTOR FAN COVER
30-2	X1742030-2	MOTOR FAN
30-3	X1742030-3	CAPACITOR COVER
30-4	X1742030-4	RUN CAPACITOR 20UF 250VAC
30-5	X1742030-5	START CAPACITOR 500UF 125VAC
30-6	X1742030-6	JUNCTION BOX
35	XPW06M	FLAT WASHER 12MM
36	XPNO9M	HEX NUT M12-1.75

REF	PART #	DESCRIPTION
37	X1742037	ADJUST BOLT
38	XPSS03M	SET SCREW M6-1 X 8
39	X1742039	COLLAR
41	X1742041	PLATE CONNECTING ROD
42	XPSS04M	SET SCREW M6-1 X 12
43	X1742043	MOTOR PLATE
44	XPFH06M	FLAT HD SCR M6-1 X 20
45	X1742045	COVER
46	X1742046	ENCLOSED STAND
47	XPB143M	HEX BOLT M10-1.5 X 55
48	XPW04M	FLAT WASHER 10MM
49	XPNO2M	HEX NUT M10-1.5
50	X1742050	BUSHING
51	X1742051	PLATE CONNECTING ROD ASSY
52	XPW04M	FLAT WASHER 10MM
53	XPNO2M	HEX NUT M10-1.5
54	XPB44M	HEX BOLT M10-1.5 X 75
55	XPSS14M	SET SCREW M8-1.25 X 12
56	XPK12M	KEY 5 X 5 X 30
57	XPFB06M	HEX BOLT M8-1.25 X 20
58	XPB83M	HEX BOLT M6-1 X 16
59	X1742059	BALL STRAIN RELIEF
60	X1742060	CONTROL BOX
61	X1742061	SUPPORT ARM
62	XPHEK6	TAP SCREW #10 X 3/8
63	X1742063	CONTROL PANEL
64	X1742064	EMERGENCY STOP BUTTON
65	X1742065	POWER LAMP
66	X1742066	ON BUTTON
67	X1742067	HEX NUT M5
68	XPW02M	FLAT WASHER 5MM
69	X1742069	PLATE
70	XPB17M	HEX BOLT M6-1X 10
71	XPW03M	FLAT WASHER 6MM
72	X1742072	MAGNETIC SWITCH ASSY
73	XPS22M	PHLP HD SCREW M5-0.8 X 25

Headstock

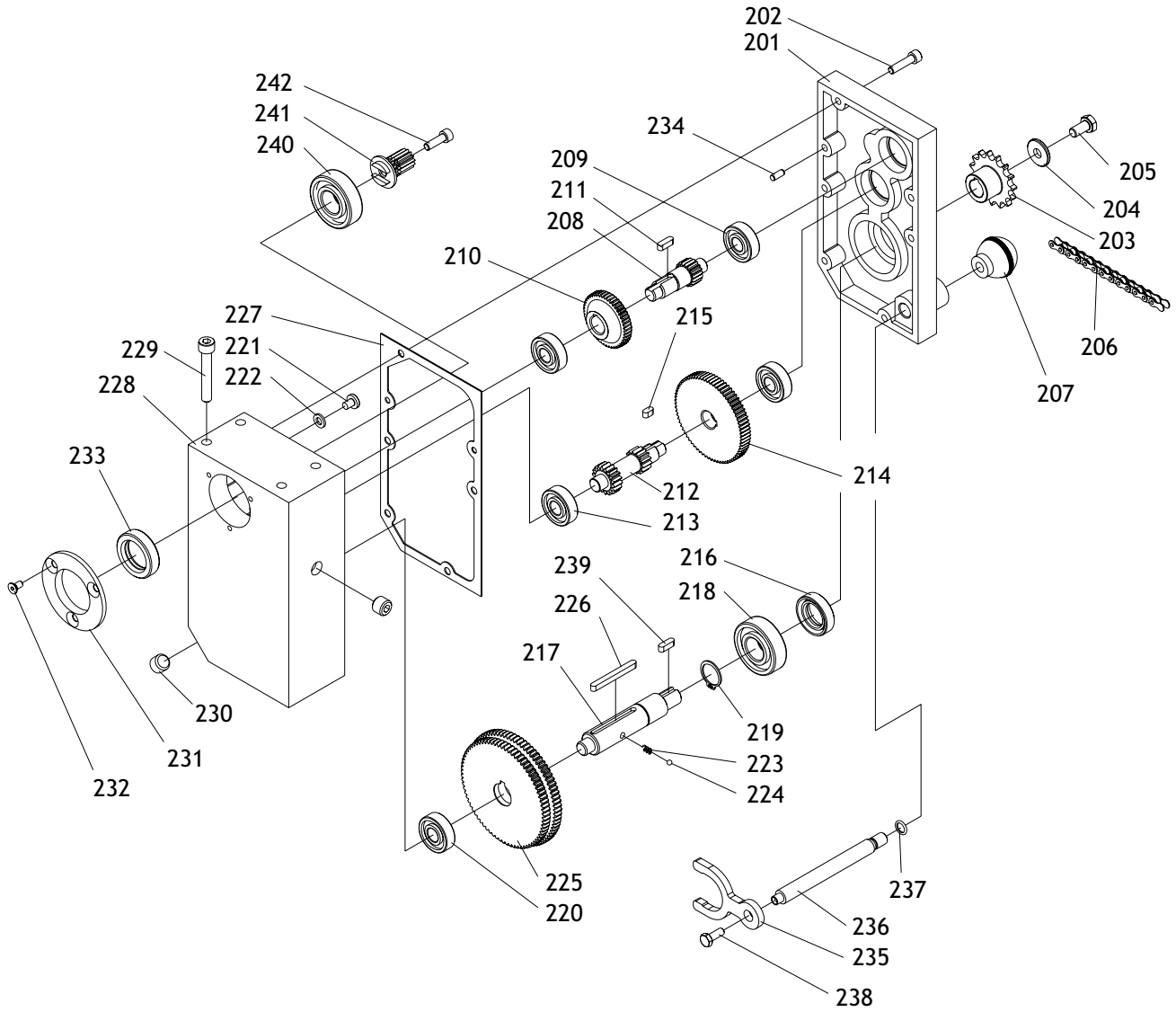


Headstock Parts List

REF	PART #	DESCRIPTION
101	X1742101	HANDLE
102	XPN09M	HEX NUT M12-1.75
103	XPW06M	FLAT WASHER 12MM
105	X1742105	HANDWHEEL
106	X1742106	COLLAR
107	XPR29M	INT RETAINING RING 32MM
108	XP6201	BALL BEARING 6201
109	XPK48M	KEY 4 X 4 X 20
110	X1742110	WORM GEAR
111	X1742111	WORM HOUSING
112	X1742112	CAP SCREW M5-0.8 X 55
113	X1742113	ROLLER
114	X1742114	ROLLER STAND
115	XPSB52M	CAP SCREW M8-1.25 X 14
116	X1742116	BELT COVER
117	X1742117	FEMALE KNOB M8-1.25
118	XPFH02M	FLAT HD SCR M6-1 X 12
119	X1742119	DUST HOOD
120	XPSB14M	CAP SCREW M8-1.25 X 20
121	XPB04M	HEX BOLT M6-1 X 10
122	XPN01M	HEX NUT M6-1
123	XPW03M	FLAT WASHER 6MM
124	X1742124	UPPER COVER
125	XPFB01M	FLANGE BOLT M6-1 X 12
126	X1742126	FOAM
127	X1742127	GEAR BOX COVER
128	XPVMX60	V-BELT MX-60
129	XPSB45M	CAP SCREW M8-1.25 X 45
130	XPRP07M	ROLL PIN 6 X 20
131	X1742131	SAFETY HATCH
132	X1742132	FLANGE BOLT M6-1 X 10
133	X1742133	IDLE BRACKET ASSY
133-1	X1742133-1	BRACKET
133-2	X1742133-2	IDLE PULLEY
133-3	X1742133-3	IDLE SHAFT
134	X1742134	SHAFT
135	X1742135	COLLAR
136	X1742136	EXTENSION SPRING
137	X1742137	HANGER
138	XPSB68M	CAP SCREW M6-1 X 8
139	X1742139	CHIP DEFLECTOR PLATE
140	XPFB01M	FLANGE BOLT M6-1 X 12
141	X1742141	PRESS PLATE
142	XPFB01M	FLANGE BOLT M6-1 X 12
143	X1742143	KNIFE SET OF THREE
144	X1742144	GIB PLATE
145	X1742145	GIB SCREW
146	X1742146	ADJUSTING NUT
147	X1742147	JACK SCREW M5-.8 X 16
148	X1742148	CUTTERHEAD
149	XPK09M	KEY 8 X 8 X 36

REF	PART #	DESCRIPTION
150	XP6205	BALL BEARING 6205
151	XPB83M	HEX BOLT M6-1 X 16
152	XPW03M	FLAT WASHER 6MM
153	X1742153	SPROCKET
154	X1742154	SCALE
155	XPW03M	FLAT WASHER 6MM
156	XPS14M	PHLP HD SCR M6-1 X 12
157	X1742157	POINTER
158	XPW03M	FLAT WASHER 6MM
159	XPS14M	PHLP HD SCR M6-1 X 12
160	X1742160	CUT LIMIT PLATE
161	XPS03M	PHLP HD SCR M6-1 X 8
162	X1742162	HEAD CASTING
163	X1742163	OUTFEED ROLLER
164	XPK08M	KEY 5 X 5 X 16
165	X1742165	COMPRESSION SPRING
166	X1742166	SPECIAL SET SCREW
167	X1742167	BUSHING
168	X1742168	PLATE
169	XPB03M	HEX BOLT M8-1.25 X 16
170	XPSS53M	SET SCREW M5-.8 X 12
171	XPN06M	HEX NUT M5-0.8
172	X1742172	SHAFT
173	XPSS25M	SET SCREW M6-1 X 20
174	X1742174	CHIP BREAKER
175	XPSS58M	SET SCREW M6-1 X 18
176	XPN01M	HEX NUT M6-1
177	X1742177	RECEIVER PIN
177-1	XPFB01M	FLANGE BOLT M6-1 X 12
178	X1742178	LOCKING ROD
179	XPR03M	EXT RETAINING RING 12MM
180	XPLW05M	LOCK WASHER 12MM
181	XPN09M	HEX NUT M12-1.75
182	XPEC05M	E-CLIP 15MM
183	X1742183	COLLAR
184	X1742184	ANTI-KICKBACK FINGER
185	X1742185	SHAFT
186	XPSS06M	SET SCREW M8-1.25 X 16
187	XPB83M	HEX BOLT M6-1 X 16
188	XPW03M	FLAT WASHER 6MM
189	X1742189	SPROCKET
190	X1742190	CHAIN 06B-1 X 63
191	XPK08M	KEY 5 X 5 X 16
192	X1742192	INFEED ROLLER
193	XPW03M	FLAT WASHER 6MM
194	XPB02M	HEX BOLT M6-1 X 12
195	X1742195	CUTTERHEAD PULLEY
196	X1742196	MOTOR PULLEY
197	X1742197	COLLAR
198	XPB09M	HEX BOLT M8-1.25 X 20
199	X1742199	BELT GUARD

Gearbox Diagram

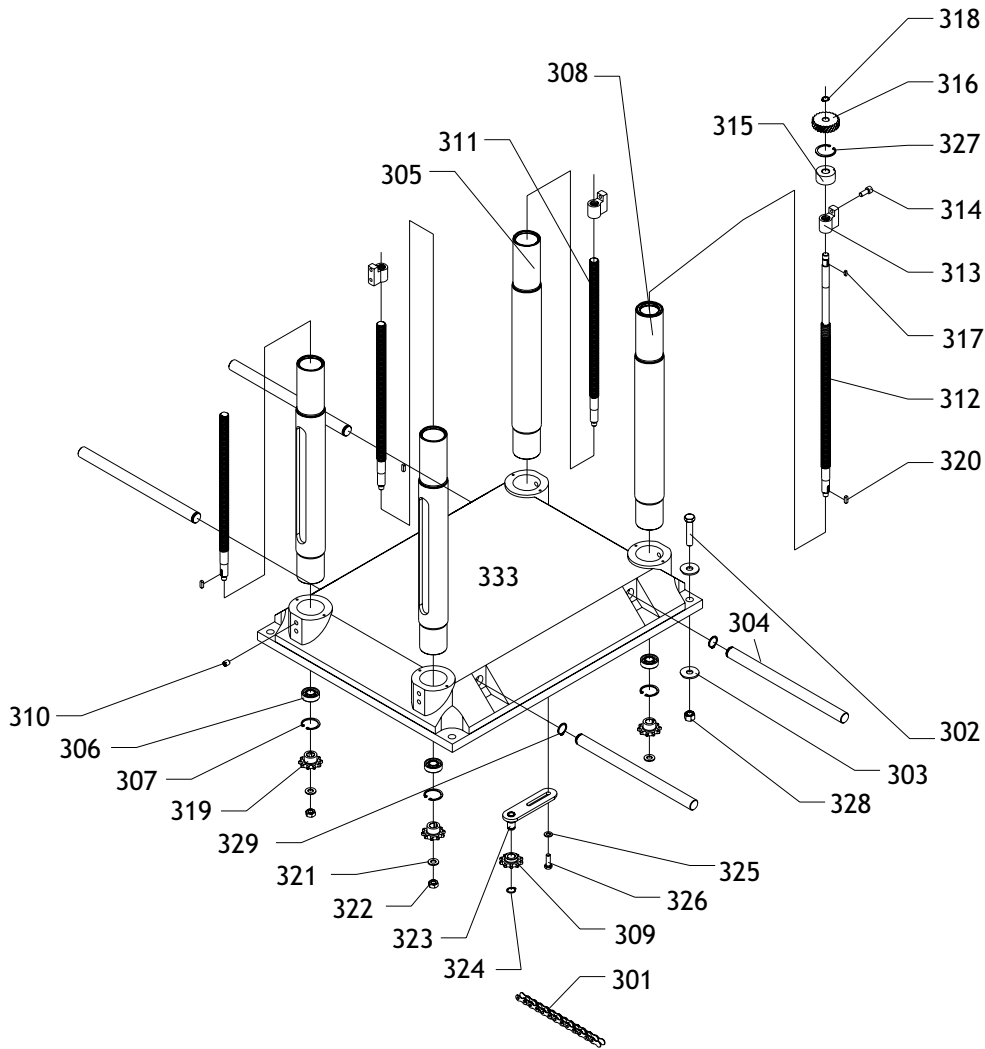


Gearbox Parts List

REF	PART #	DESCRIPTION
201	X1742201	GEAR BOX
202	XPB10M	HEX BOLT M6-1 X 25
203	X1742203	SPROCKET
204	XPW03M	FLAT WASHER 6MM
205	XPB03M	HEX BOLT M8-1.25 X 16
206	X1742206	CHAIN 06B-1 X 51
207	X1742207	FEMALE KNOB M8-1.25
208	X1742208	SHAFT
209	XP6201	BALL BEARING 6201
210	X1742210	GEAR
211	XPK19M	KEY 5 X 5 X 14
212	X1742212	SHAFT
213	XP6201	BALL BEARING 6201
214	X1742214	GEAR
215	XPK06M	KEY 5 X 5 X 10
216	X1742216	OIL SEAL 25 X 32 X X 7
217	X1742217	SHAFT
218	XP6204	BALL BEARING 6204
219	XPR09M	EXT RETAINING RING 20MM
220	XP6201	BALL BEARING 6201
221	XPS03M	PHLP HD SCR M6-1 X 8

REF	PART #	DESCRIPTION
222	XPW03M	FLAT WASHER 6MM
223	X1742223	COMPRESSION SPRING
224	X1742224	STEEL BALL 4MM
225	X1742225	GEAR
226	XPK36M	KEY 5 X 5 X 50
227	X1742227	GASKET
228	X1742228	GEAR BOX COVER
229	XPB22M	HEX BOLT M8-1.25 X 50
230	X1742230	OIL PLUG
231	X1742231	FLANGE COVER
232	XPSB33M	CAP SCREW M5-.8 X 12
233	X1742233	OIL SEAL 25 X 40 X 10
234	XPRP35M	PIN 5 X 10
235	X1742235	SHIFT FORK
236	X1742236	HANDLE SHAFT
237	X1742237	O-RING 16 X 2.4
238	XPFB01M	FLANGE BOLT M6-1 X 12
239	XPK08M	KEY 5 X 5 X 16
240	XP6204	BALL BEARING 6204
241	X1742241	GEAR
242	XPSS25M	SET SCREW M6-1 X 20

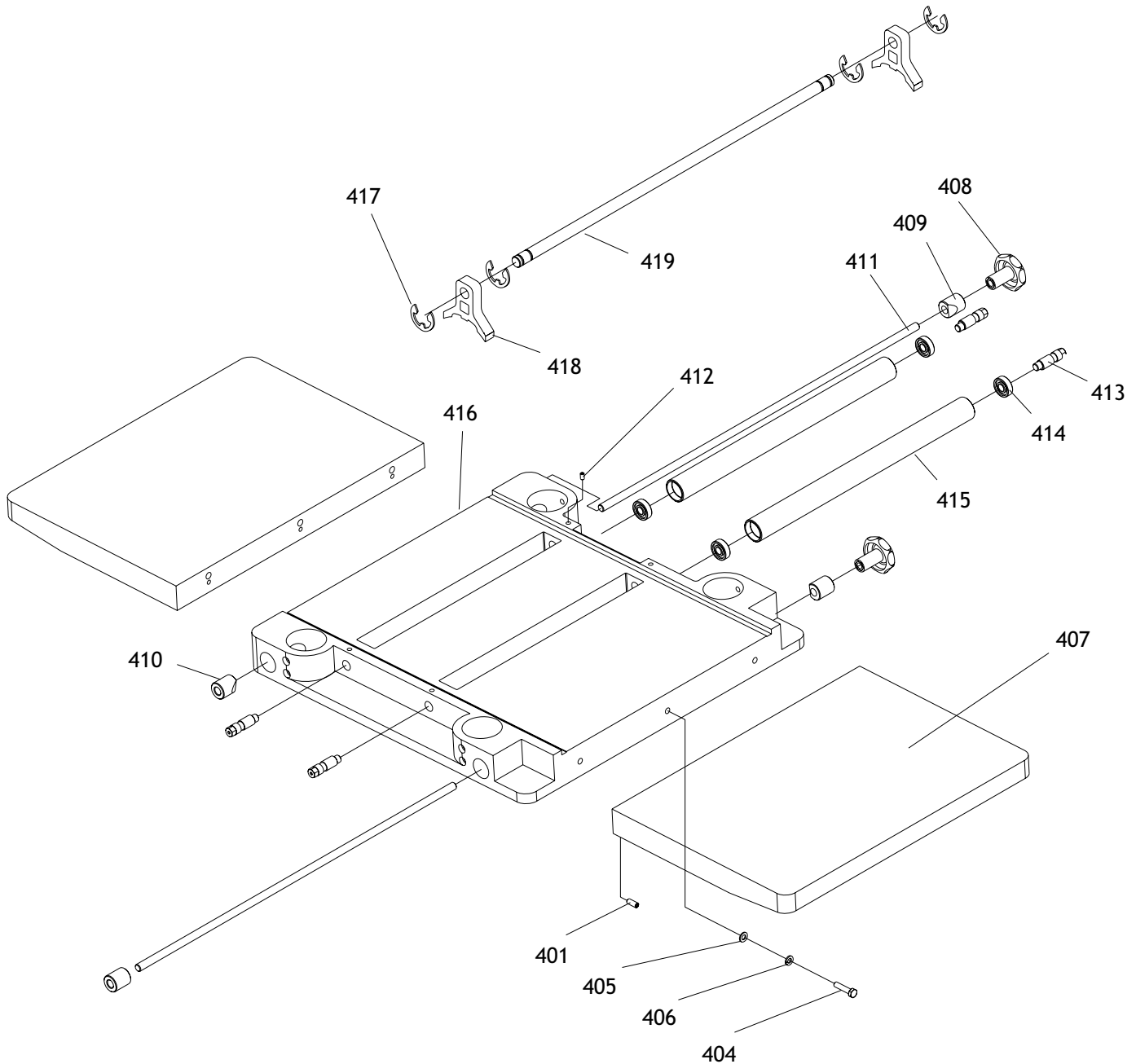
Lower Table Diagram & Parts List



REF	PART #	DESCRIPTION
301	X1742301	CHAIN 12.7 AX 134
302	XPB24M	HEX BOLT M12-.175 X 45
303	XPW06M	FLAT WASHER 12MM
304	X1742304	LIFTING BAR
305	X1742305	COLUMN
306	XP6302	BALL BEARING 6302
307	XPR24M	INT RETAINING RING 42MM
308	X1742308	COLUMN
309	X1742309	SPROCKET
310	XPSS13M	SET SCREW M10-1.5 X 12
311	X1742311	LEAD SCREW
312	X1742312	LEAD SCREW
313	X1742313	LEAD NUT
314	XPSB02M	CAP SCREW M6-1 X 20
315	X1742315	BUSHING

REF	PART #	DESCRIPTION
316	X1742316	GEAR
317	XPB69M	KEY 4 X 4 X 12
318	XPR03M	EXT RETAINING RING 12MM
319	X1742319	SPROCKET
320	XPB08M	KEY 5 X 5 X 16
321	XPW04M	FLAT WASHER 10MM
322	XPNO2M	HEX NUT M10-1.5
323	X1742323	BRACKET
324	XPR05M	EXT RETAINING RING 15MM
325	XPW01M	FLAT WASHER 8MM
326	XPB09M	HEX BOLT M8-1.25 X 20
327	XPR23M	INT RETAINING RING 40MM
328	XPNO9M	HEX NUT M12-1.75
329	XPR05M	EXT RETAINING RING 15MM
333	X1742333	BASE

Upper Table Diagram & Parts List



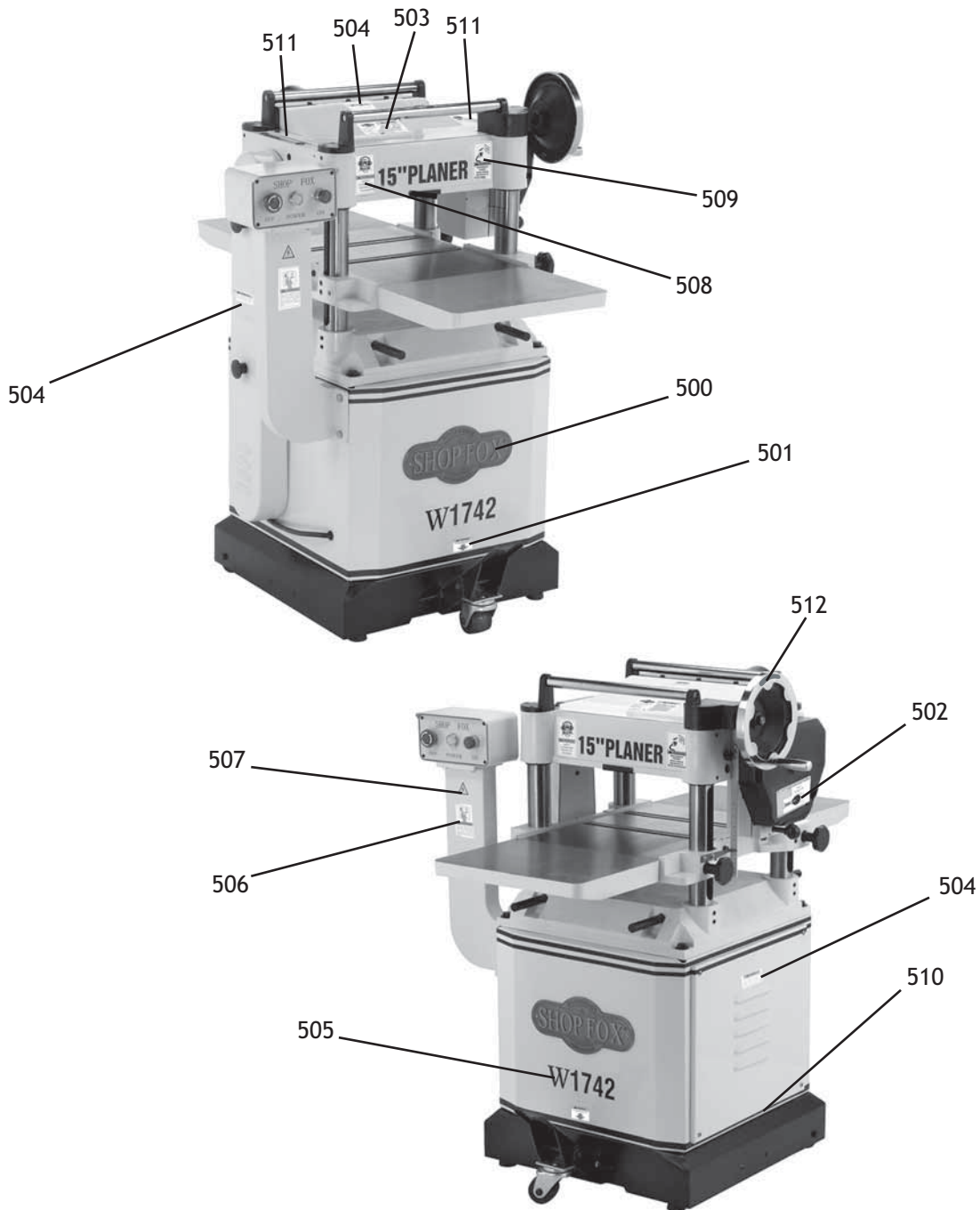
REF	PART #	DESCRIPTION
401	XPSS09M	SET SCREW M8-1.25 X 20
404	XPB26M	HEX BOLT M8-1.25 X 30
405	XPW01M	FLAT WASHER 8MM
406	XPLW04M	LOCK WASHER 8MM
407	X1742407	EXTENSION WING
408	X1742408	FEMALE KNOB M12-1.75
409	X1742409	WEDGE DOG
410	X1742410	GIB
411	X1742411	LOCK BAR

REF	PART #	DESCRIPTION
412	XPSS11M	SET SCREW M6-1 X 16
413	X1742413	ECCENTRIC SHAFT
414	XP6203	BALL BEARING 6203
415	X1742415	ROLLER
416	X1742416	TABLE/BED
417	XPR39M	EXT RETAINING RING 8MM
418	X1742418	SADDLE
419	X1742419	ROD

Label Placement

WARNING

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



Label List

REF	PART #	DESCRIPTION
500	X1742500	SHOP FOX LOGO PLATE
501	X1742501	LOCK BASE LABEL
502	X1742502	SHIFT GEARS LABEL
503	X1742503	DATA LABEL
504	X1742504	KEEP CLOSED LABEL
505	X1742505	W1742 LABEL
506	X1742506	READ MANUAL LABEL

REF	PART #	DESCRIPTION
507	X1742507	ELECTRICTY LABEL
508	X1742508	DUST/EYE WARNING LABEL
509	X1742509	UNPLUG LABEL
510	X1742510	PINSTRIPPE TAPE
511	X1742511	OIL HERE LABEL
512	X1742512	ROTATION LABEL

Warranty

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

Woodstock International, Inc. will repair or replace, at its expense and at its option, the **SHOP FOX®** machine or machine part which in normal use has proven to be defective, provided that the original owner returns the product prepaid to the **SHOP FOX®** factory service center or authorized repair facility designated by our Bellingham, WA office, with proof of their purchase of the product within two years, and provides Woodstock International, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of Woodstock International Inc.'s warranty, then the original owner must bear the cost of storing and returning the product.

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

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

Warranty Registration

Name _____
Street _____
City _____ State _____ Zip _____
Phone # _____ Email _____ Invoice # _____
Model # _____ Serial # _____ Dealer Name _____ Purchase Date _____

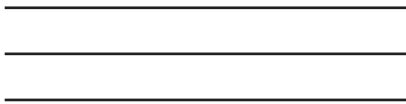
The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. Of course, all information is strictly confidential.

- How did you learn about us?
 Advertisement Friend Local Store
 Mail Order Catalog Website Other:
- How long have you been a woodworker/metalworker?
 0-2 Years 2-8 Years 8-20 Years 20+ Years
- How many of your machines or tools are Shop Fox®?
 0-2 3-5 6-9 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?
 20-29 30-39 40-49
 50-59 60-69 70+
- 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+
- Which of the following magazines do you subscribe to?

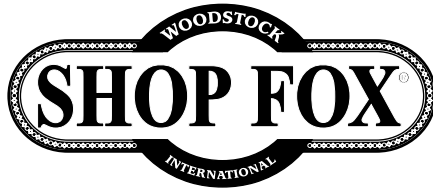
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<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Popular Science	<input type="checkbox"/> Wood
<input type="checkbox"/> Hand Loader	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Wooden Boat
<input type="checkbox"/> 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: _____

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