



JWP-12L

12-1/2" Thicknesser with Straight Knife Cutterhead

Original:
GB
Operating Instructions



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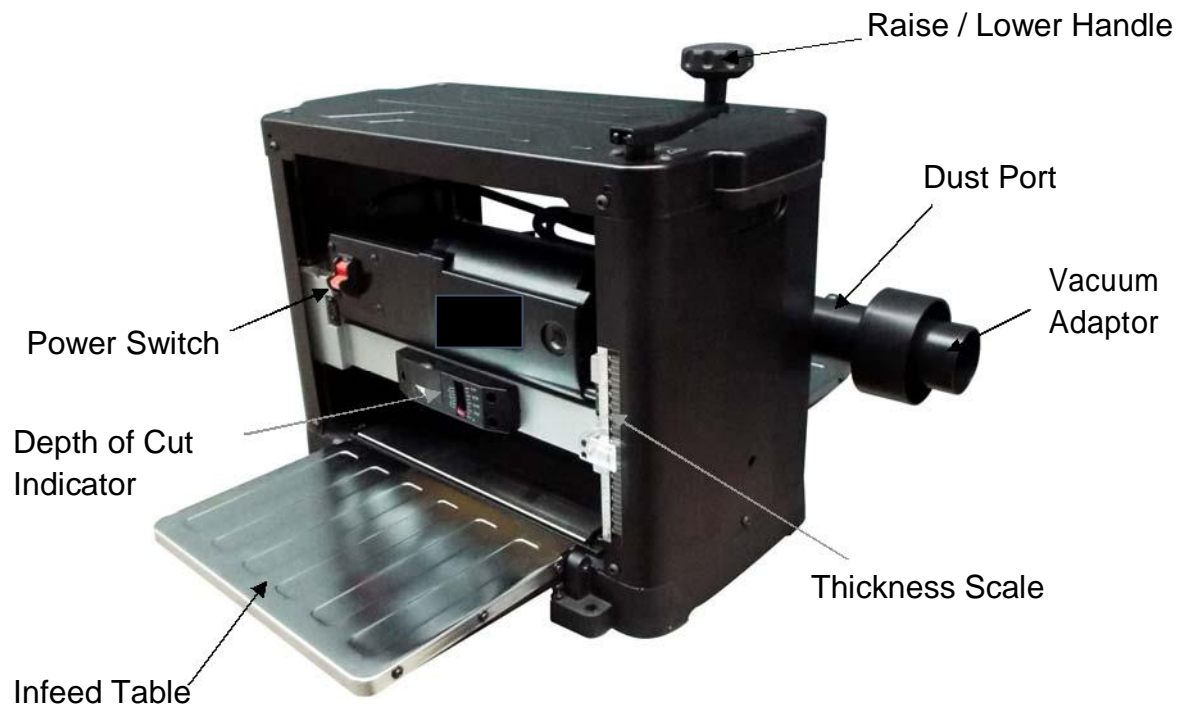
INTRODUCTION

This user manual is intended for use by anyone working with this machine. It should be kept available for immediate reference so that all operations can be performed with maximum efficiency and safety. Do not attempt to perform maintenance or operate this machine until you have read and understand the information contained in this manual. The drawings, illustrations, photographs, and specifications in this user manual represent your machine at time of print. However, changes may be made to your machine or this manual at any time with no obligation to JET.

PRODUCT SPECIFICATIONS

Feed Speed M/min	7.92
Cutterhead Speed RPM	10,000
Motor RPM	23000+/-10% (No Load)
Cutterhead Diameter	50.8mm
Max. Planer Capacity	152mm x 318mm
Max. Depth of Cut @ 6"	2.4mm
Max. Depth of Cut @ 12-1/2"	1.6mm
Minimum Length of Stock	178mm
Minimum Thickness of Stock	4.76mm
Number of Knives	2
Motor Power Input	230V, 50 Hz, AC Only, 7.5 Amp
Shipping Weight	27.4 kg
Shipping Dimensions	L 635 x W 464 x H 388 /mm
Product Dimensions	W 565 x W 715 (w/ tables) x H 390 (w/o handle)
Dust Port Outside Diameter	50 with adapter 100 to 64 /mm

FEATURE IDENTIFICATION



GENERAL SAFETY

NOTE: The **WARNING!** and **CAUTION!** symbols indicate a potentially hazardous situation which, if not avoided, COULD result in death or serious injury. READ THIS MANUAL completely before assembling and operating this machine.

WARNING! TO AVOID serious injury, death, or damage to the machine, please read, understand, and follow, all Safety and Operating Instructions before assembling and operating this machine. This manual is not totally comprehensive. It does not and can not convey every possible safety and operational problem which may arise while using this machine. The manual will cover many of the basic and specific safety procedures needed in an industrial environment.

All federal and state laws, and any regulations having jurisdiction covering the safety requirements for use of this machine, take precedence over the statements in this manual. Users of this machine must adhere to all such regulations.

WARNING! Exposure to the dust created by power sanding, sawing, grinding, drilling and other construction activities may cause serious and permanent respiratory or other injury, including silicosis (a serious lung disease), cancer, and death. Avoid breathing the dust, and avoid prolonged contact with dust. The dust may contain 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.

Always operate tool in well ventilated area and provide for proper dust removal. Use a dust collection system along with an air filtration system whenever possible. Always use properly fitting NIOSH/OSHA approved respiratory protection appropriate for the dust exposure, and wash exposed areas with soap and water.

WARNING! ALWAYS wear eye protection. Any machine can throw debris into the eyes during operations, which could cause severe and permanent eye damage. Everyday eyeglasses are NOT safety glasses. ALWAYS wear Safety Goggles (that comply with ANSI standard Z87.1) when operating power tools.

WARNING! ALWAYS wear hearing protection. Plain cotton is not an acceptable protective device. Hearing equipment should comply with ANSI S3.19 Standards.

WARNING! ALWAYS wear a NIOSH/OSHA approved dust mask to prevent inhaling dangerous dust or airborne particles.

GENERAL SAFETY

ALWAYS keep the work area clean, well lit, and organized. DO NOT work in an area that has slippery floor surfaces from debris, grease, and wax.

CAUTION! ALWAYS unplug the machine from the electrical receptacle when making adjustments, changing parts or performing any maintenance.

AVOID ACCIDENTAL STARTING. Make sure that the power switch is in the “OFF” position before plugging in the power cord to the electrical receptacle.

WARNING! AVOID a dangerous working environment. DO NOT use electrical tools in a damp environment or expose them to rain or moisture.

WARNING! CHILDPROOF THE WORKSHOP AREA by removing switch keys, unplugging tools from the electrical receptacles, and using padlocks.

CAUTION! DO NOT use electrical tools in the presence of flammable liquids or gasses.

DO NOT FORCE the machine to perform an operation for which it was not designed. It will do a safer and higher quality job by only performing operations for which the machine was intended.

WARNING! DO NOT stand on a machine. Serious injury could result if it tips over or you accidentally contact any moving part.

DO NOT store anything above or near the machine.

WARNING! DO NOT operate any machine or tool if under the influence of drugs, alcohol, or medication.

EACH AND EVERY time, check for damaged parts prior to using any machine. Carefully check all guards to see that they operate properly, are not damaged, and perform their intended functions.

Check for alignment, binding or breakage of all moving parts. Any guard or other part that is damaged should be immediately repaired or replaced.

WARNING! Ground all machines. If any machine is supplied with a 3-prong plug, it must be plugged into a 3-contact electrical receptacle. The third prong is used to ground the tool and provide protection against accidental electric shock. DO NOT remove the third prong.

CAUTION! Keep visitors and children away from any machine. DO NOT permit people to be in the immediate work area, especially when the machine is operating.

GENERAL SAFETY

KEEP protective guards in place and in working order.

CAUTION! MAINTAIN your balance. DO NOT extend yourself over the tool. Wear oil resistant rubber soled shoes. Keep floor clear of debris, grease, and wax.

MAINTAIN all machines with care. ALWAYS KEEP machine clean and in good working order. KEEP all blades and tool bits sharp.

NEVER leave a machine running, unattended. Turn the power switch to the OFF position. DO NOT leave the machine until it has come to a complete stop.

REMOVE ALL MAINTENANCE TOOLS from the immediate area prior to turning the machine ON.

WARNING! STAY ALERT, watch what you are doing, and use common sense when operating any machine. DO NOT operate any machine tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

WARNING! USE ONLY recommended accessories. Use of incorrect or improper accessories could cause serious injury to the operator and cause damage to the machine. If in doubt, DO NOT use it.

THE USE of extension cords is not recommended for 230V equipment. It is better to arrange the placement of your equipment and the installed wiring to eliminate the need for an extension cord. If an extension cord is necessary, refer to the chart in the Grounding Instructions section to determine the minimum gauge for the extension cord. The extension cord must also contain a ground wire and plug pin.

CAUTION! Wear proper clothing, DO NOT wear loose clothing, gloves, neckties, or jewelry. These items can get caught in the machine during operations and pull the operator into the moving parts. Users must wear a protective cover on their hair, if the hair is long, to prevent it from contacting any moving parts.

SAVE these instructions and refer to them frequently and use them to instruct other users.

PRODUCT SAFETY

1. Serious personal injury may occur if normal safety precautions are overlooked or ignored. Accidents are frequently caused by lack of familiarity or failure to pay attention. Obtain advice from supervisor, instructor, or another qualified individual who is familiar with this machine and its operations.
2. Every work area is different. Always consider safety first, as it applies to your work area. Use this machine with respect and caution. Failure to do so could result in serious personal injury and damage to the machine.
3. Prevent electrical shock. Follow all electrical and safety codes, including the National Electrical Code (NEC) and the Occupational Safety and Health Regulations (OSHA). All electrical connections and wiring should be made by qualified personnel only
4. **WARNING!** TO REDUCE the risk of electrical shock. DO NOT use this machine outdoors. DO NOT expose to rain. Store indoors in a dry area.
5. STOP using this machine, if at any time you experience difficulties in performing any operation. Contact your supervisor, instructor or machine service center immediately.
6. Safety decals are on this machine to warn and direct you to how to protect yourself or visitors from personal injury. These decals MUST be maintained so that they are legible. REPLACE decals that are not legible.
7. DO NOT leave the unit plugged into the electrical outlet. Unplug the unit from the outlet when not in use and before servicing, performing maintenance tasks, or cleaning.
8. **WARNING!** DO NOT handle the plug or planer with wet hands
9. USE only accessories as described in this manual and recommended by JET.
10. DO NOT pull the planer by the power cord. NEVER allow the power cord to come in contact with sharp edges, hot surfaces, oil or grease.
11. ALWAYS turn the power switch "OFF" before unplugging the planer. DO NOT unplug the planer by pulling on the power cord. ALWAYS grasp the plug, not the cord.
12. REPLACE a damaged cord immediately. DO NOT use a damaged cord or plug.
13. DO NOT use the planer as a toy. DO NOT use near or around children.

PRODUCT SAFETY

14. ENSURE that the machine sits firmly before using. If the machine wobbles or is unstable, correct the problem by using shims or blocks prior to operation.
15. This machine is designed to process wood ONLY.
16. **WARNING!** NEVER position fingers or thumbs near the infeed/ outfeed rollers or cutterhead.
17. Long pieces of stock should ALWAYS be supported with some type of fixture.
18. DO NOT operate planer with dull or damaged blades.
19. MAKE CERTAIN that the planer is properly adjusted prior to use.
20. DO NOT try and remove excessive amounts of wood in one single pass.
21. INSPECT all stock before planing, ensuring that there are no foreign objects embedded in the wood, loose knots, or knots that may become loose during operation.
22. **WARNING!** DO NOT attempt to remove jams until power is disconnected and all moving parts have come to a complete stop.
23. MAKE SURE that there is adequate operating space on both the infeed and outfeed sides of the planer before operating.
24. DO NOT attempt to plane wood that is less than 178mm long or less than 4.76mm thick.

GROUNDING INSTRUCTIONS

WARNING! This machine **MUST BE GROUNDED** while in use to protect the operator from electric shock. In the event of a malfunction or breakdown, **GROUNDING** provides the path of least resistance for electric current and reduces the risk of electric shock. The plug **MUST** be plugged into a matching electrical receptacle that is properly installed and grounded in accordance with **ALL** local codes and ordinances.

If a plug is provided with your machine **DO NOT** modify the plug. If it will not fit your electrical receptacle, have a qualified electrician install the proper connections to meet all electrical codes local and state. **ALL** connections must also adhere to **NEC** and **OSHA** mandates.

WARNING! **IMPROPER ELECTRICAL CONNECTION** of the equipment-grounding conductor can result in risk of electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment-grounding conductor. **DO NOT** connect the equipment-grounding conductor to a live terminal if repair or replacement of the electric cord or plug is necessary.

Check with a qualified electrician or service personnel if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded.

WARNING! Electrocutation or fire could result if this machine is not grounded properly or if the electrical configuration does not comply with local and state electrical codes.

MAKE CERTAIN the machine is disconnected from power source before starting any electrical work.

MAKE SURE the circuit breaker does not exceed the rating of the plug and receptacle.

The motor supplied with your machine is a 230 volt, 50 hertz, single phase motor. Never connect the green or ground wire to a live terminal. A machine with a 230 volt plug should only be connected to an outlet having the same configuration as the plug.

WARNING! To reduce the risk of fire or electrical shock, use the proper gauge of extension cord. When using an extension cord, be sure to use one heavy enough to carry the current your machine will draw.

The smaller the gauge-number, the larger the diameter of the extension cord is. If in doubt of the proper size of an extension cord, use a shorter and thicker cord. An undersized cord will cause a drop in line voltage resulting in a loss of power and overheating.

CAUTION! **USE ONLY** a 3-wire extension cord that has a 3-prong grounding plug and a 3-pole receptacle that accepts the machine's plug.

GROUNDING INSTRUCTIONS

Make certain the extension cord is properly sized, and in good electrical condition. Always replace a worn or damaged extension cord immediately or have it repaired by a qualified person before using it.

Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

UNPACKING AND INVENTORY

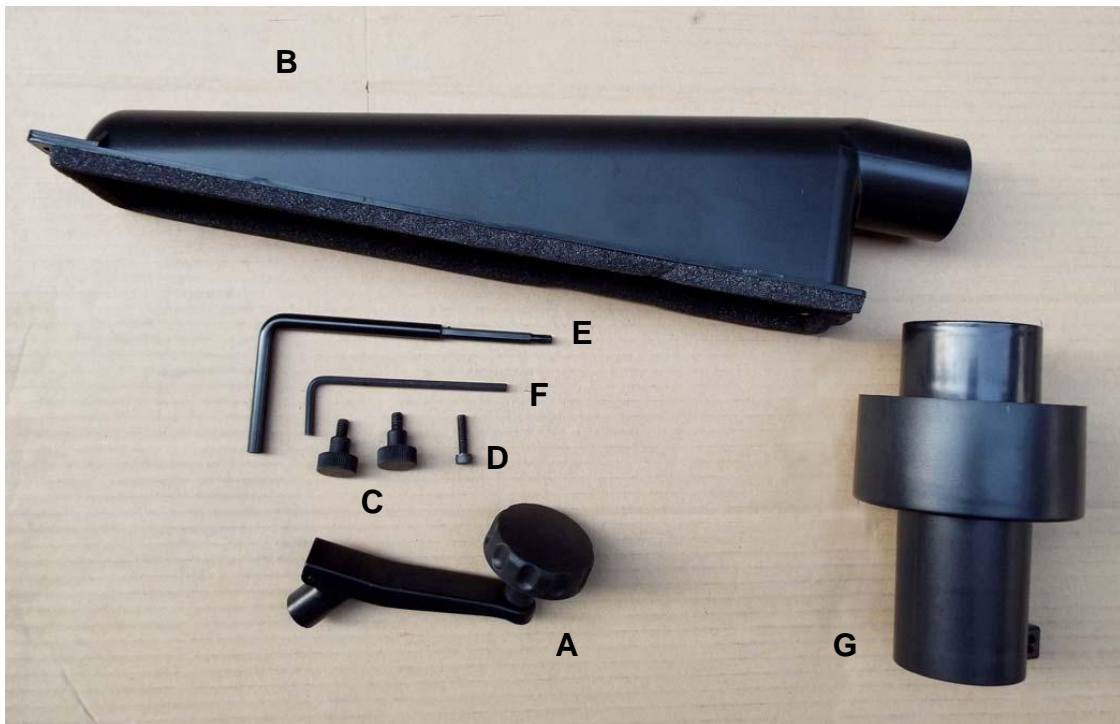
Check shipping carton and machine for damage before unpacking. Carefully remove packaging materials, parts and machine from shipping carton. Always check for and remove protective shipping materials around motors and moving parts. Lay out all parts on a clean work surface.

Remove any protective materials and coatings from all of the parts and the planer. The protective coatings can be removed by spraying WD-40 on them and wiping it off with a soft cloth. This may need to be redone several times before all of the protective coatings are removed completely.

After cleaning, apply a good quality paste wax to any unpainted surfaces including the infeed, outfeed, and center tables. Make sure to buff out the wax before assembly.

Compare the items to inventory figures and verify that all items are accounted for. If at all possible, retain shipping carton for warranty service if ever needed.

If any parts are missing, do not attempt to plug in the power cord and run the machine. The machine should only be turned "ON" after all the parts have been obtained and installed correctly. For missing parts, contact JET.



- | | |
|------------------------------|---|
| A. Raise / Lower Handle | E. Torx Wrench |
| B. Dust Port | F. Hex Wrench |
| C. Dust Port Thumb Screw (2) | G. Vacuum Adaptor (2" to 2-1/2" and 4") |
| D. Handle Screw | |

ASSEMBLY

WARNING! MAKE CERTAIN THAT THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE.

ATTACHING DEPTH ADJUSTMENT HANDLE

Attach the raise/lower adjustment handle (A) to the shaft (B) and fasten in place with 1 Hex Socket Head screw. Tighten screw using supplied hex wrench. SEE FIG 1.



FIG 1

ATTACHING DUST PORT and ADAPTOR

The Dust Port is to be used when the planer is to be connected to a dust collector. It has a 2" port on it to accommodate dust collection systems and 2-1/2" & 4" adaptor to connect vacuum hose.

To install:

1. Install the 2" dust port (A) in the rear of the planer by using 2 thumb screws (B). SEE FIG 2A. If needed for 2-1/2" or 4" vacuum hose, install the vacuum adaptor by supplied hex wrench(C). SEE FIG 2B.

ASSEMBLY

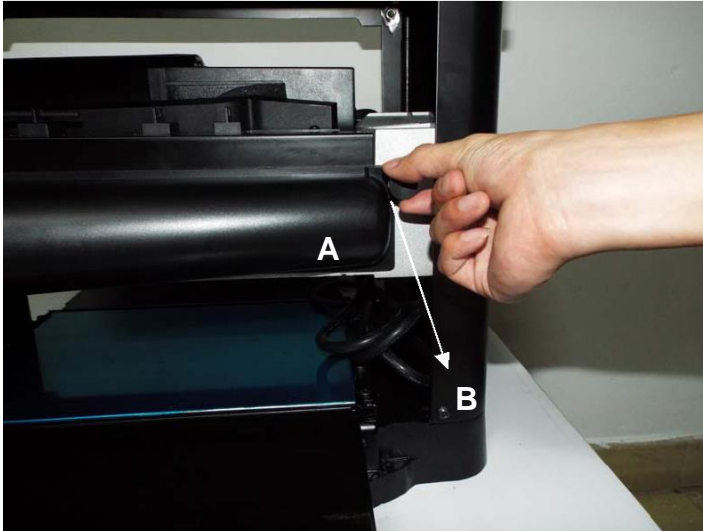


FIG 2A



FIG 2B

SECURING PLANER TO A TABLE OR WORKBENCH

During operation, if there is any tendency for the planer to tip over, slide or walk, the planer **MUST** be secured to a supporting surface such as a workbench or table. Four holes are provided (2 are shown at (A)) to securely mount the planer. The surface you are mounting the planer to should be perfectly flat. SEE FIG 3.



FIG 3

ADJUSTMENTS

WARNING! MAKE CERTAIN THAT THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE BEFORE ANY ADJUSTMENTS ARE MADE.

LEVELING EXTENSION TABLES

The extension tables must be level with the planer table. To check the extension tables and adjust if necessary:

1. Lay a straight edge (A) on the planer table (C) with one end of the straight edge over the infeed table (B). SEE FIG 4.
2. Check to make sure that the infeed table is level with the planer table.
3. If an adjustment is necessary, raise table, loosen lock nuts (D) and adjust Hex Head Screws (E) on each side of the table until the infeed table is level with the planer table. This will adjust the outer edge of the table. If necessary, loosen the three screws of one side of infeed table (F), after adjusting, then retighten the screws back. Adjust another side of infeed table in the same manner.
4. Recheck for level and repeat adjustment if necessary.
5. Repeat this process for leveling the outfeed table.

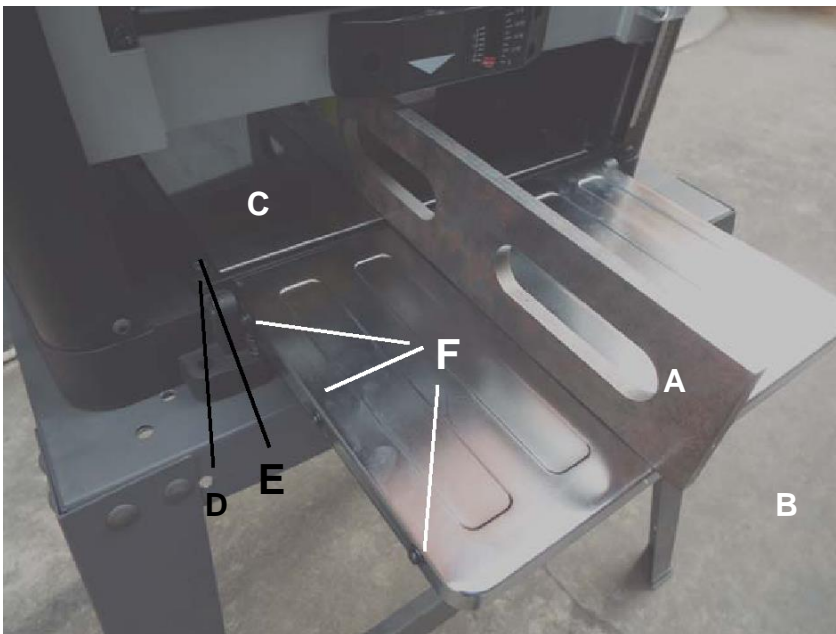


FIG 4

ADJUSTMENTS

RAISING AND LOWERING HEAD ASSEMBLY

The head assembly consists of the cutterhead, knives, feed rollers, cutterhead guard, and the motor. Raising and lowering of the head assembly controls the depth of cut on the planer.

To adjust:

1. To raise the head assembly (A), turn the adjusting handle (B) clockwise. SEE FIG 5.
2. To lower the head assembly, turn the adjusting handle counterclockwise.

NOTE: One revolution of the handle will move the cutterhead up or down approximately 1/16". You can confirm this by referencing the scale (C) on the front right side of the planer.

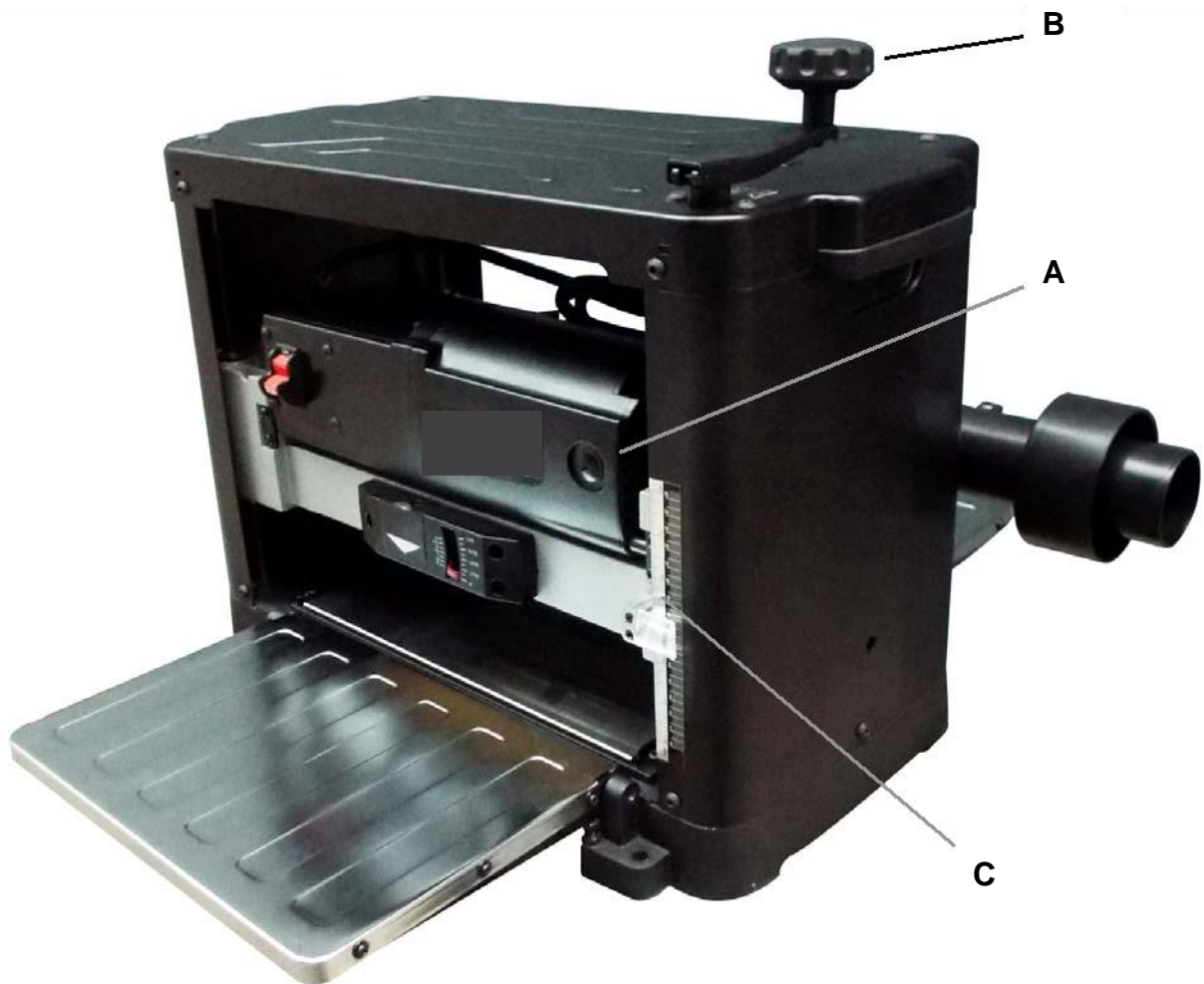


FIG 5

ADJUSTMENTS

REPLACING KNIVES FOR JWP-12L

WARNING! MAKE CERTAIN THAT THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE BEFORE ANY ADJUSTMENTS ARE MADE.

WARNING! *** Be VERY CAREFUL when handling the knives or cutter tips as they are EXTREMELY SHARP and can cause serious injury!!! ***

WARNING! NEVER GRASP THE CUTTERHEAD BY HAND!

The knives supplied with the planer have an edge on both sides of the blade enabling you to flip the knives over when one edge becomes dull or pitted. To change:

1. The knife removal tool (A) is supplied with your planer and attached underneath the outfeed table (B) with Velcro (C), you can storage the tool when it's not in use. SEE FIG 6 on the following page.
2. Use the raise/lower handle to lower the cutterhead assembly down to 1".
3. Remove the cutterhead guard (A) by removing the thumb screws (B). SEE FIG 7 on the following page.
4. Rotate the cutterhead with the supplied Hex wrench (A). Rotate the cutterhead using the wrench to the position where the sharp edge of the blade is not visible from your sight angle. SEE FIG 8 on the following page.
5. Using the supplied torx wrench (B), unscrew the six screws (C) just enough so that the locking bar (D) separates from the knife (E), allowing the knife to be removed. Do not completely remove the screws. Insert the magnetic knife removal tool (F) underneath the center of the locking bar. SEE FIG 8 & 9 on the following page.
6. Lift the tool up until the knife separates from the pins and remove the knife.
7. Rotate the knife 180 degrees so that the edge of the knife that was facing you is now facing away from you and reinsert the knife. If you have already used both edges of the knife, replace the knife at this time.
8. Place the magnetic knife removal tool on top of the knife. Make sure that the tool is centered on the knife.
9. Place the knife on the pins in the cutterhead and remove the knife removal tool.
10. Retighten the six screws that were loosened in step 5 above.
11. Repeat this process for the remaining knife.

NOTE: When placing the knives on the pins, you will notice that there is some slight side to side movement available in the knife. This is normal as it allows for repositioning of the knives in case one of the knives gets a nick in it.

ADJUSTMENTS (Cont)

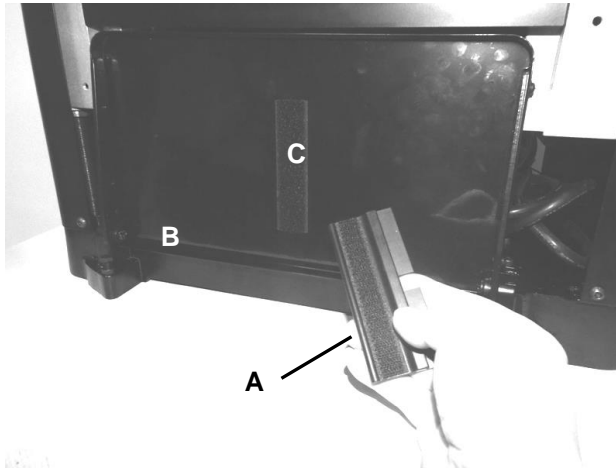


FIG 6

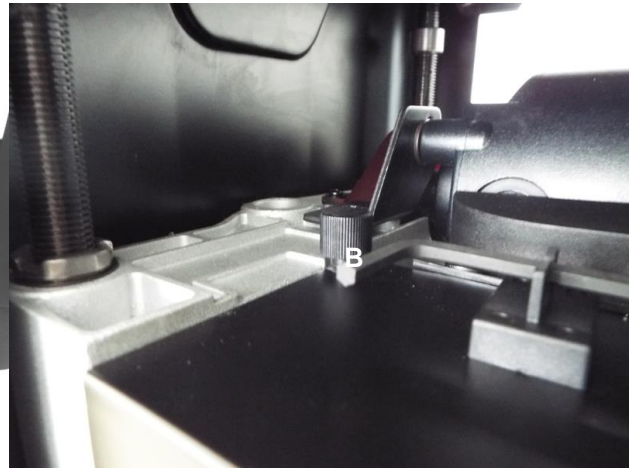


FIG 7

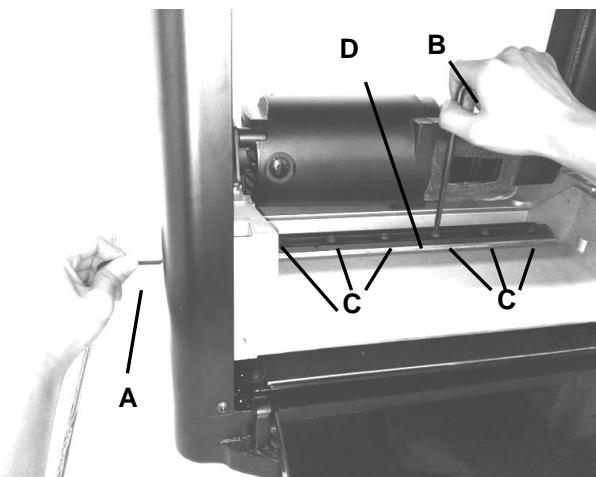


FIG 8

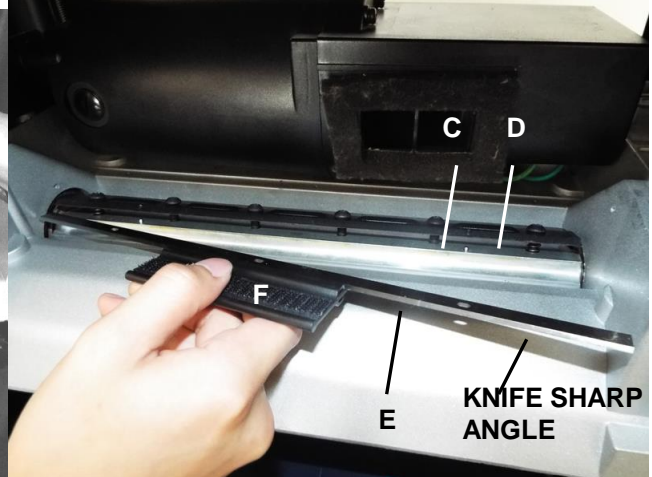


FIG 9

THICKNESS SCALE ADJUSTMENT

The thickness scale, located on the right of the planer, shows the thickness of the finished workpiece. To make sure the scale is set properly, run a piece of wood through the planer and measure the thickness of the wood. If the scale is out of alignment, loosen the two round head screws (A) holding the scale indicator (B) and adjust the thickness indicator to the correct setting. Make sure to re-tighten the two screws once the adjustment is complete. FIG 10

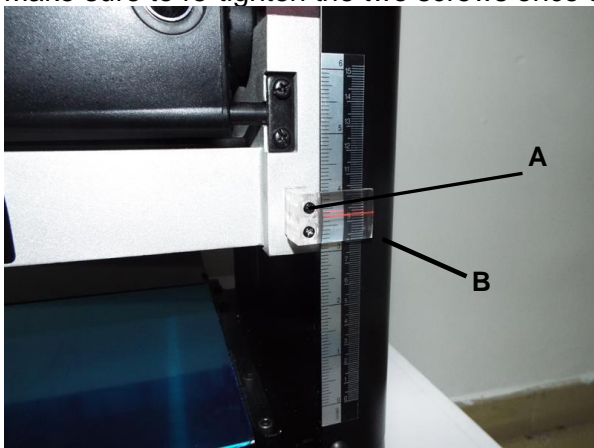


FIG. 10

OPERATIONS

NOTE: This operations section was designed to give instructions on the basic operations of this planer. However, it is in no way comprehensive of every planer operation. It is strongly recommended that you read books, trade magazines, or get formal training to maximize the potential of your planer while minimizing the risks.

NOTE: This planer is designed to process wood ONLY.

WARNING! Make sure the switch is in the "OFF" position before connecting cord into socket. Do not touch the plug's prongs when unplugging or plugging.

WARNING! In the case of a power outage (such as a breaker or fuse trip), always turn the switch to the "OFF" position until the power is restored.

OPERATIONS

DEPTH-OF-CUT INDICATOR

The Depth-Of-Cut Indicator, located on the front of the machine, is a convenient way to quickly determine how much material is being planed off in one pass.

1. With the machine OFF, insert your workpiece just under the cut scale (A). SEE FIG 11
2. Crank the raising / lowering handle until the button (B) comes in contact with the workpiece. As you rotate the raise / lower handle, the needle on the depth of cut scale will move showing how much material will be removed in that pass.

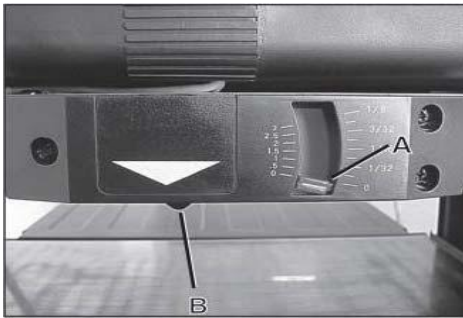


FIG. 11

GETTING PREPARED

It is always a good idea to use a piece of scrap wood for your first planing attempt. Also, before each use of the planer, make it a habit of checking for loose fasteners, fittings or hardware. Turn the planer ON and allow it to reach full speed. Pay close attention to any excessively loud noises that may be coming from the planer or any excessive vibration. If either occurs, shut down the planer immediately checking again for loose hardware. Go through the ASSEMBLY and ADJUSTMENTS sections again if necessary.

BASIC OPERATION

WARNING! To avoid serious personal injury, NEVER stand directly in line with the front or rear of the planer. If an object is thrown from the planer, it will travel in this direction.

1. Stand to either the left or right side of the planer.
2. Turn the switch to the ON position.
3. Lift the workpiece onto the infeed table by grabbing the edges of the board at the middle of the length. NOTE: For longer pieces, be sure to use additional supports or stands.
3. Push slightly on the board to start feed and allow the feed rollers to pull the board through the planer. Once the feed rollers start to pull the workpiece through, let go of the board and allow the rollers to do their job. DO NOT push or pull on the workpiece once the rollers have engaged.
4. Move to one side of the rear of the planer and receive the planed workpiece by grabbing the edges of the wood like you did when feeding the workpiece in.
6. It normally takes several passes of varying depths to achieve a smooth finish, so repeat this process as many times as necessary. Remember the less you take off in a pass, the smoother the finish will be. Finish the surface by sanding.

OPERATIONS

THICKNESS PLANING

Thickness planing sizes the workpiece to a desired thickness, while at the same time creating a smooth and level surface. The thickness of each cut will depend on the type of wood, width of the workpiece, and condition of the lumber (i.e. dryness, grain composition, straightness, etc). Always make thin test cuts on a scrap piece of wood prior to performing final cuts.

GENERAL TIPS AND GUIDELINES

1. Thickness planing always works best when at least one side of the workpiece has a flat surface. If both sides of the workpiece are rough, feed one face of the board through the planer until the entire surface is flat.
2. ALWAYS plane both sides of the workpiece to reach the desired thickness.
3. DO NOT plane workpieces less than 4.76mm thick, less than 19mm wide, or shorter than 178mm.
4. It is not recommended to continuously use the planer at its maximum depth of cut (1.6mm) and at its full width (318mm) as this will shorten the life of the motor.
5. Light cuts create a smoother finish than heavier cuts.
6. If a smooth cut is not obtained, see TROUBLESHOOTING GUIDE on page 24.

AVOIDING SNIPE

Snipe, gouging or depression of the board at the ends, can occur when the board is not properly supported. For workpieces longer than 1.2meter, greater care must be taken to reduce the problem because the additional length of the workpiece translates into more unsupported weight pulling down on the end of the board. This unsupported weight will work against keeping the stock flat. Make sure to use supports or stands whenever long pieces are being planed to avoid this problem. Since snipe occurs at the end of the boards, it is good practice to start with a workpiece that is slightly longer than what you need so that you can simply cut off the ends if necessary. Also see TROUBLESHOOTING for further information.

MAINTENANCE

WARNING! MAKE CERTAIN THAT THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE BEFORE PERFORMING ANY MAINTENANCE PROCEDURES

Your planer should provide you with a long time of service provided you take the time to perform the following maintenance operations.

CLEANING

Sawdust buildup and other debris can cause the tool to plane incorrectly. Periodic cleaning and waxing is needed for accurate, precision planing. Any moving parts should be cleaned regularly with a penetrating oil and lubricated with a light coating of medium weight machine oil

MAINTENANCE

CAUTION! With the machine unplugged, blow off motor with low pressure air to remove dust or dirt. Air pressure above 50 P.S.I. should not be used as high-pressured air may damage insulation. The operator should always wear a respirator and eye protection when using compressed air. Do not allow chips and dust to accumulate under the machine. Keep area clean and in safe order.

Having clean feed rollers is essential for optimal results. Check feed rollers after each use for buildup of pitch, gum, or resin, and be sure to clean off with a non-flammable tar and pitch remover that is not harmful to rubberized surfaces.

Periodically clean, wax, and buff the tables. This will aid in the prevention of improper feeding of the workpiece.

HARDWARE TIGHTNESS

Periodically check all clamps, nuts, bolts, and screws, for tightness and condition. Stop the machine and recheck the cutterhead screw and knives, or tips, for tightness after about 50 hours of operation. Recheck periodically.

GEAR LUBRICATION

The gears in the gear box should be lubricated periodically.

1. Facing the front of the machine, remove the raise/ lower handle. SEE FIG. 1 page 13.
2. Remove the 4 screws on the upper sides for holding the top cover on the machine. Remove the top cover.
3. On the left side panel, remove the 3 socket head screws (A) located around the bottom edge and remove the side panel to expose the gearbox cover. SEE FIG 12.

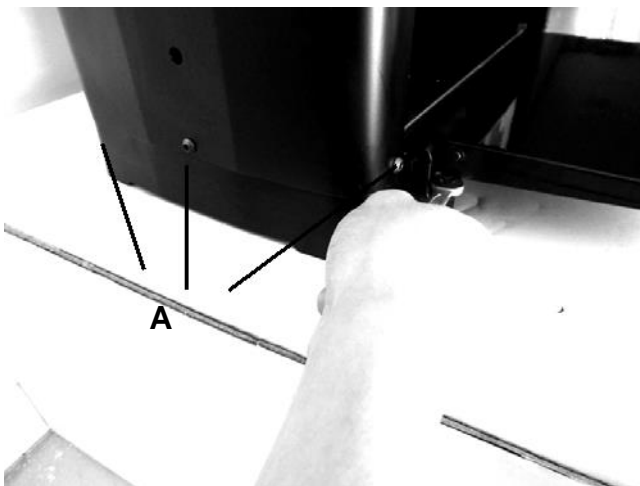


FIG 12

MAINTENANCE

4. Place a light coat of multi-purpose grease on the teeth of the gears (A) and a light coat of spray lubricant on the chain (B). Do not over-lubricate and replace the side panel. SEE FIG 13.



FIG 13

5. Replace all covers, panels and guards, that you removed once lubrication is complete.

BRUSH REPLACEMENT

Brush life will vary depending on the load placed on the motor. The brushes should be inspected every 10-15 hours of use. To inspect or replace:

1. Remove the brush holders, one of which is shown at (A). The other is located in the same position on the rear of the motor assembly. The Brush Holder can be removed using a flat blade screwdriver. SEE FIG. 14.

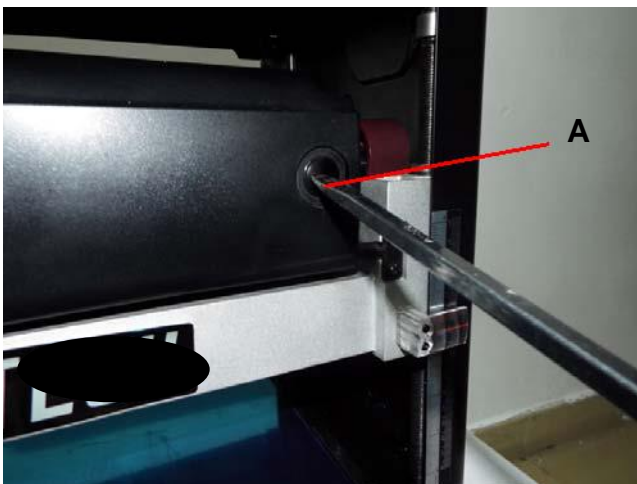


FIG 14

MAINTENANCE

2. Once the brush has been removed, inspect the carbon (B), the spring (C), and the wire (D). SEE FIG 15.

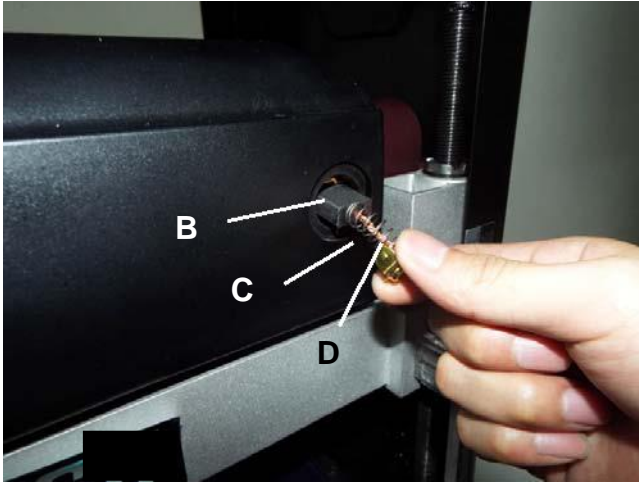


FIG 15

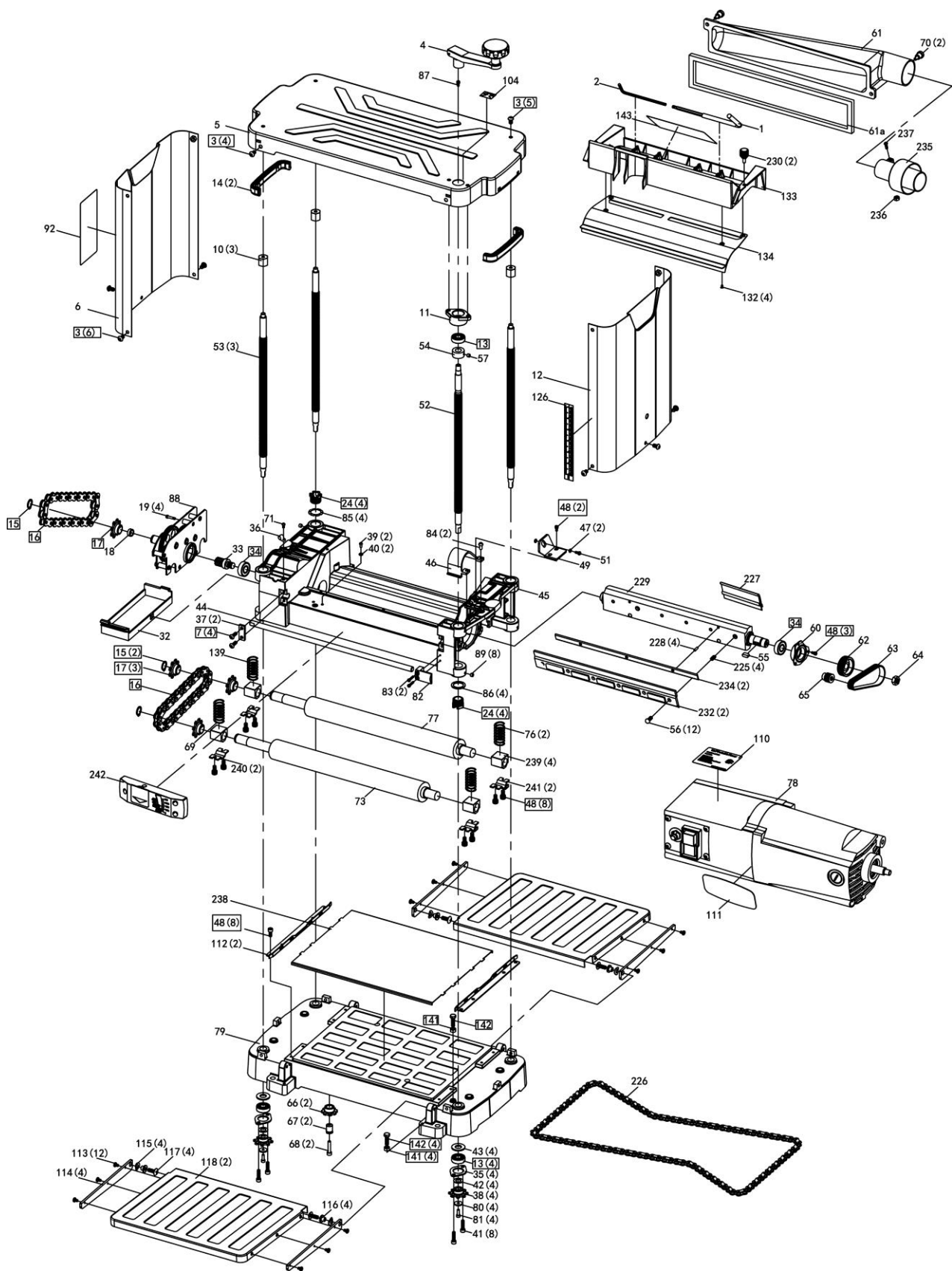
3. If the carbon of either brush is worn down to 4.76mm or less, both brushes should be replaced. Also if the spring or wire are burned or damaged in any way, both brushes should be replaced.

TROUBLESHOOTING GUIDE

Motor and Machine Operation

PROBLEM	LIKELY CAUSE	SOLUTION
Snipe (depressions at end of workpiece)	Dull cutter inserts Infeed or outfeed tables out of adjustment. Residue on rollers.	Replace or turn cutter inserts. Readjust tables. Feed scrap of same thickness before and after workpiece. Clean rollers.
Torn grain.	Too deep or shallow blade setting. Work piece being fed against grain. Dull cutter inserts	Reduce or increase the depth of cut. Feed other end of board first. Replace or turn cutter inserts. Try skewing board when feeding. VERY slightly dampen work piece.
Fuzzy/rough grain.	High wood moisture content. Dull cutter inserts Too deep cut.	Dry wood before planing. Replace or turn cutter inserts Reduce depth of cut
Board thickness does not match depth scale indicator.	Depth scale incorrectly set.	Adjust depth scale.
Will not start.	Not plugged in. Blown circuit. Switch key removed.	Check the power source. Replace fuse, reset breaker, or call electrician. Replace switch key.
Interrupted operation	Unit overloaded. Circuit overloaded.	Reduce load. Operate on circuit separate from other appliances or motors or connect to circuit with adequate amp rating.
Planer not feeding properly	Too much material being removed. Cutter inserts dull. Build up on tables. Build up on rollers.	Reduce cut depth. Replace cutter inserts. Clean tables and apply paste wax. Clean rollers with a cleaner safe for rubber surfaces.

Exploded View for 10000847M



Part List for 10000847M

Index No	Part No	Description	Size	Qty
1	JWP12L-01	Torx Wrench Assy	L145, T25	1
2	JWP12L-02	Hex Wrench	4mm	1
3	TS-2246082	Hex Socket HD Button Screw	M6 x 8	15
4	JWP12L-04	Handle Knob Assy		1
5	JWP12L-05	Top Cover		1
6	JWP12L-06	Left Side Panel		1
7	TS-1533042	Pan Head Screw	M5 x 12	4
10	JWP12L-10	Retainer		3
11	JWP12L-11	Upper Bearing Seat		1
12	JWP12L-12	Right Side Panel		1
13	BB-6000ZZ	Ball Bearing	6000ZZ	5
14	JWP12L-14	Handle Bar		2
15	JWP12L-15	C-Ring	STW15	3
16	JWP12L-16	Chain		2
17	JWP12L-17	Sprocket	8T	4
18	JWP12L-18	Spacer		1
19	TS-1502081	Socket HD Cap Screw	M5 x 35	4
24	JWP12L-24	Elevation Nut		8
32	JWP12L-32	Gear Box Cover		1
33	JWP12L-33	Pinion Gear		1
34	BB-6203ZZ	Ball Bearing	6203ZZ	2
35	JWP12L-35	Base Bearing Retainer		4
36	JWP12L-36	Cord Clamp		1
37	JWP12L-37	Plate		2
38	JWP12L-38	Spindle Sprocket		4
39	JWP12L-39	Pan HD Tapping Screw	M5 x 8	2
40	JWP12L-40	External Tooth Lock Washer	M6	2
41	JWP12L-41	Special Hex Socket Cap Screw	M5 x 12	8
42	TS-1550071	Flat Washer	M10	4
43	JWP12L-43	Special Washer		4
44	JWP12L-44	Motor Pivot Rod		1
45	JWP12L-45	Upper Frame		1
46	JWP12L-46	Belt Guard		1
47	JWP12L-47	Flat Washer		2
48	TS-1502031	Socket HD Cap Screw	M5 x 12	21
49	JWP12L-49	Motor Bracket		1
51	TS-1490021	Hex Cap Screw	M8 x 16	1
52	JWP12L-52	Height Adjust Spindle		1
53	JWP12L-53	Spindle		3
54	JWP12L-54	Spacer		1
55	JWP12L-55	Key		1
56	JWP12L-56	Torx Screw	M6 x 16	12
57	JWP12L-57	Nylon Lock Socket Set Screw	M5 x 5	1
60	JWP12L-60	Bearing Cap		1
61	JWP12L-61	Dust Port		1
61a	JWP12L-61A	Foam	365 x 70 mm	1
62	JWP12L-62	Cutterhead Pulley		1
63	JWP12L-63	Belt	135J6	1
64	JWP12L-64	Hex Nut	M16	1
65	JWP12L-65	Motor Pulley		1
66	JWP12L-66	Idle Wheel		2
67	JWP12L-67	Idle Wheel Shaft		2
68	TS-1502061	Socket HD Cap Screw	M5 x 25	2
69	JWP12L-69	Spring		1
70	JWP12L-70	Knob		2
71	TS-1533042	Pan HD Screw	M5 x 12	1
73	JWP12L-73	Roller Infeed		1
76	JWP12L-76	Right Coil Spring		2
77	JWP12L-77	Outfeed Roller		1
78	JWP12L-78	Motor Assy	230V, 50Hz	1
79	JWP12L-79	Base		1
80	JWP12L-80	Flat Washer		4

Index No	Part No	Description	Size	Qty
81	JWP12L-81	Nylon Lock Hex Socket HD Screw	M4 x 12	4
82	JWP12L-82	Cursor		1
83	JWP12L-83	Pan Head Screw	M3 x 25	2
84	JWP12L-84	Screw	M4 x 10	2
85	JWP12L-85	Spring Washer		4
86	JWP12L-86	Flat Washer		4
87	TS-1502051	Socket HD Cap Screw	M5 x 20	1
88	JWP12L-88	Gear Box Assy		1
89	TS-1522011	Socket Set Screw	M5 x 6	8
92	JWP12L-92	Warning Label		1
104	JWP12L-104	Lift Indicating Label		1
110	JWP12L-110	Motor Label		1
111	JET-92	JET Logo Plaque		1
112	JWP12L-112	Base Guide Rail		2
113	JWP12L-113	Pan Head Screw	M4 x 6	12
114	JWP12L-114	Table Support		4
115	JWP12L-115	Spring Washer		4
116	JWP12L-116	Table Bushing		4
117	TS-1534052	Pan Head Screw	M6 x 16	4
118	JWP12L-118	Outfeed Table		2
126	JWP12L-126	Scale		1
132	JWP12L-132	Flat HD Tapping Screw	M4 x 8	4
133	JWP12L-133	Dust Chute		1
134	JWP12L-134	Dust Chute Plate		1
139	JWP12L-139	Spring		1
141	TS-1540031	Hex Nut	M5	5
142	TS-1482041	Hex Cap Screw	M6 x 20	5
159	JWP12L-159	Switch	KJD17	1
178	JWP12L-178	Brush Cover		2
179	JWP12L-179	Motor Brush		2
180	JWP12L-180	Brush Holder		2
185	JWP12L-185	Overload Protection Assy	10A	1
226	JWP12L-226	Chain		1
227	JWP12L-227	Knife Removal Tool Assy		1
228	JWP12L-228	Pin		4
	JWP12L-229S	Cutterhead Assembly (included # 33-34, 55, 60, 62, 64 and 229)		1
229	JWP12L-229	Cutterhead		1
230	JWP12L-230	Thumb Screw	M5	2
232	JWP12L-232	Knife Lock Bar		2
234	JWP12L-234	Knives	12x1.5x320 mm SK5	2
235	JWP12L-235	Vacuum Adapter		1
236	TS-1540031	Hex Nut	M5	1
237	JWP12L-237	Nylon Lock Socket HD Button Screw	M5 x 25	1
238	JWP12L-238	Wear Plate		1
239	JWP12L-239	Bearing		4
240	JWP12L-240	Bearing Block - Left		2
241	JWP12L-241	Bearing Block - Right		2
242	JWP12L-242	Indicator Depth Assy		1

Wiring Diagram for 10000847M

