

User Manual

Read this manual before using machine to avoid serious injury and damage

50180CC-WHD

8" Bench Top Jointer

with Spiral Style Cutterhead 4-Sided Carbide Inserts and Cast Iron Tables





For technical support, email <u>techservices@wahudatools.com</u> or call **877-568-8879** VER. 19.11.18

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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 WAHUDA.

WARRANTY

2 YEAR LIMITED WARRANTY

WAHUDA warrants its machinery to be free of defects in workmanship and materials for a period of two (2) years from the date of the original purchase by the original owner. This warranty applies to products sold in United States only. The warranty does not apply to any product used for professional or commercial production purposes nor for industrial or educational applications. Such cases are covered by our 1 year Limited Warranty with the Conditions and Exceptions.

Warranty does not include failures, breakage or defects deemed after inspection by an Authorized Service Center or our agent to have been directly or indirectly caused by or resulting from improper use, lack of or improper maintenance, misuse or abuse, negligence, accidents, damage in handling or transport, or normal wear and tear of any part or component. Examples are consumables such as inserts and knives or wear items like drive belts, bearings or brushes. Additionally, warranty is void if repairs or alterations are made to the machine by an unauthorized service center without the direct consent of WAHUDA.

To file a claim of warranty, call toll free 877-568-8879 or email techservices@wahudatools.com. Warranty applies to the original buyer only and cannot be transferred. Your machines date of purchase and serial number have already been registered with WAHUDA when shipped. If you purchased your machine from one of our authorized dealers, please go online at www.wahudatools.com and register your machine online. Thus, you will only need to provide your full name when contacting WAHUDA.

The defective units should be returned Freight prepaid to WAHUDA's Authorized Service Center for inspection. If the warranty claim is considered to be invalid due to exclusions listed above, WAHUDA will at your direction dispose of or return the product. In the event you choose to have the product returned you will be responsible for the handling and shipping cost of the return.

WAHUDA furnishes the above warranties in lieu of all other warranties, express or implied. WAHUDA shall not be liable for any special, indirect, incidental, punitive or consequential damages, including without limitation to loss of profits arising from or related to the warranty, the breach of any agreement or warranty, or the operation or use of its machinery, including without limitation damages arising from damage to fixtures, tools, equipment, parts or materials, direct or indirect loss caused by any other part, loss of revenue or profits, financing or interest charges, and claims by and third person, whether or not notice of such possible damages has been given to WAHUDA. Not Responsible for damages of any kind for any delay by or failure of WAHUDA to perform its obligations under this agreement or claims made a subject of a legal proceeding against WAHUDA more than one (1) year after such cause of action first arose.

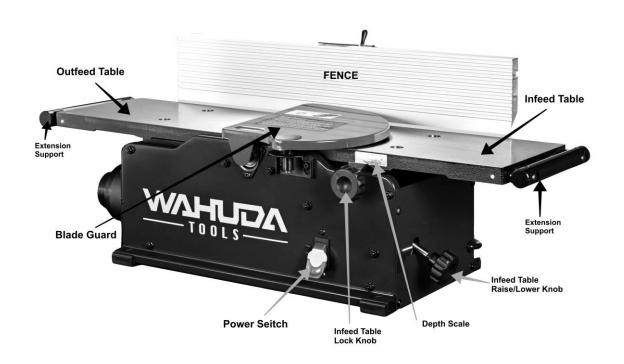
The validity, construction and performance of this Warranty and any sale of machinery by WAHUDA shall be governed by the law of the State of Tennessee, without regard to conflicts of law's provisions of any jurisdiction. Any action related in any way to any alleged or actual offer, acceptance or sale by WAHUDA or any claim related to the performance of and agreement including without limitation this Warranty, shall take place in the federal or state courts in Shelby County, Tennessee.

WAHUDA reserves the right to change the specifications of its machines without prior notice.

PRODUCT SPECIFICATIONS

Cutterhead speed RPM	12,000
Motor RPM	19000+/-10% (No Load)
Cutterhead diameter	2"
Max capacity	8" x 1/8"
Cutter inserts qty	16
Motor power input	120 V, 60 Hz, AC Only, 10 Amp
Fence Size Overall	4 %" x 24"
Tables (Overall measurements)	8" x 33.5"
Tables (Overall with extension support)	8" x 51"
Shipping Weight	70.6 lbs
Net Weight	64 lbs
Shipping Dimensions	36 %" L x 15" W x 13 %" H
Machine Length	51"
Machine Depth with Fence	20"
Machine Height with Fence	13 1/4"

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 cannot 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.

<u>WARNING!</u> 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 (cont.)

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.

<u>WARNING!</u> 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.

<u>WARNING!</u> 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 (cont.)

KEEP protective guards in place and in working order.

<u>CAUTION!</u> 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.

<u>WARNING!</u> 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.

<u>WARNING!</u> 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.

<u>CAUTION!</u> 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.

NOTE: Information regarding the safe and proper operation of this tool is also available from the following sources:

Power Tool Institute 1300 Summer Avenue Cleveland, OH 44115-2851 www.powertoolinstitute.org

National Safety Council 1121 Spring Lake Drive Itasca, IL 60143-3201 American National Standards Institute 23 West 43rd Street, 4th Floor New York, NY 10036 www.ansi.org

ANSI 01.1 Safety Requirements for Woodworking Machines and the U.S. Department of Labor Relations www.osha.gov

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 protector 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 jointer with wet hands
- 9. USE only accessories as described in this manual and recommended by WAHUDA.
- 10. DO NOT pull the jointer 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 jointer. DO NOT unplug the jointer 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 jointer as a toy. DO NOT use near or around children.

PRODUCT SAFETY (cont.)

- 14. ENSURE that the machine sits firmly before using. If the machine wobbles or is unstable, correct the problem by attaching to a bench top prior to operation.
- 15. This machine is designed to process wood ONLY.
- 16. **WARNING!** NEVER position fingers or thumbs near the cutterhead.
- 17. Long pieces of stock should ALWAYS be supported with some type of fixture.
- 18. DO NOT operate jointer with dull or damaged blades.
- 19. MAKE CERTAIN that the jointer 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 beginning operations 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 jointer before operating.
- 24. **WARNING!** DO NOT attempt to joint or plane wood that is less than 10" long, narrower than 3/4", or less than 1/2" 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.

<u>WARNING!</u> 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.

<u>WARNING!</u> Electrocution 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 115 volt, 60 hertz, single phase motor. Never connect the green or ground wire to a live terminal. A machine with a 115 volt plug should only be connected to an outlet having the same configuration as the plug.

<u>WARNING!</u> 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. If you are using an extension cord outdoors, be sure it is marked with the suffix "W-A" ("W" in Canada) to indicate that it is acceptable for outdoor use.

GROUNDING INSTRUCTIONS (cont.)

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.

MINIMUM RECOMMENDED GAUGE FOR EXTENSION CORDS (AWG)				
115 VOLT OPERATION ONLY				
	25' LONG	50' LONG	100' LONG	150' LONG
0 to 6 Amps	18 AWG	16 AWG	16 AWG	14 AWG
6 to 10 Amps	18 AWG	18 AWG	14 AWG	12 AWG
10 to 12 Amps	16 AWG	16 AWG	14 AWG	12 AWG

UNPACKING & 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.

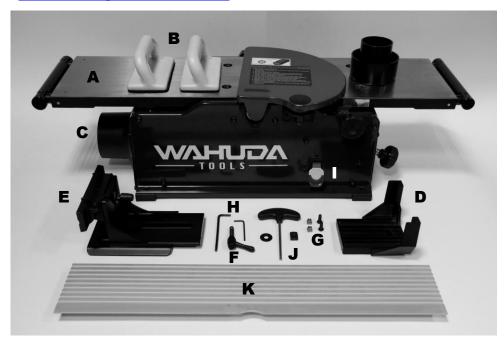
Be EXTREMELY CAREFUL working around the cutter tips as they are VERY SHARP!!!

Remove any protective materials and coatings from all of the parts and the jointer **except** for the cutterhead. Specific cutterhead cleaning instructions follow. The protective coatings can be removed by spraying WD-40 on a soft cloth and wiping the surfaces.

After cleaning, apply a good quality paste wax to the table surfaces being careful of the cutterhead. Make sure to buff out the wax before assembly.

NOTE: Some parts pictured may have already be installed on your machine at the factory. Go through the entire manual before contacting WAHUDA.

Compare the items to inventory figures and verify that all items are accounted for. If any parts are missing, do not attempt to power on the machine. For missing parts, or shipping damage, contact WAHUDA at techservices@wahudatools.com or call 877-568-8879.



A - Jointer

D - Fence Bracket

H - 2.5 mm & 4mm Hex Wrench

B - Push Blocks

E - Fence Sliding Bracket

I - Yellow Safety Key for Switch

C – Port Adapter

F - Sliding Bracket Lever, Washer & Nut

J - T-Torx Wrench for Cutterhead

G - Fence Square Nuts & Screws (2 each)

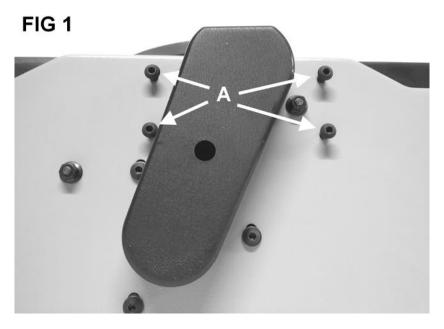
K - Fence

ASSEMBLY & ADJUSTMENTS

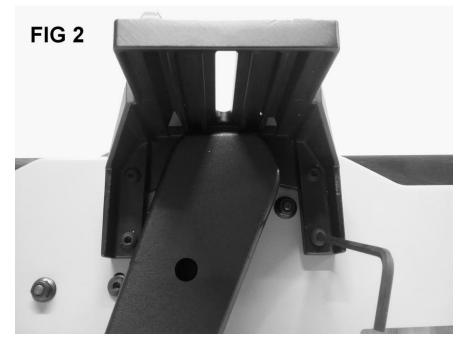
WARNING! MAKE CERTAIN THAT THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE BEFORE ASSEMBLY AND ADJUSTMENTS

FENCE ASSEMBLY PROCEDURE

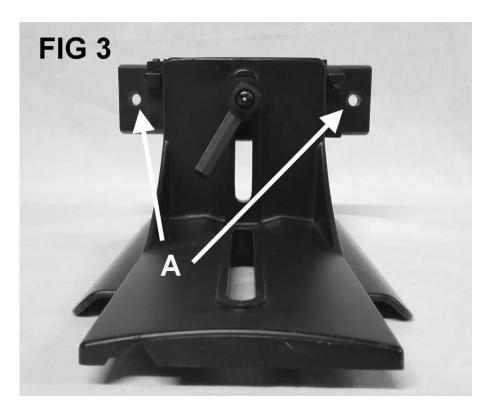
1. Face the rear of the jointer and remove the 4 screws (A) using the provided 4mm Hex Wrench. See FIG 1



2. Using the provided 4mm Hex Wrench, install Fence Bracket (D from Inventory page 12) using the 4 screws removed in the previous step. Tighten screws securely. See FIG 2

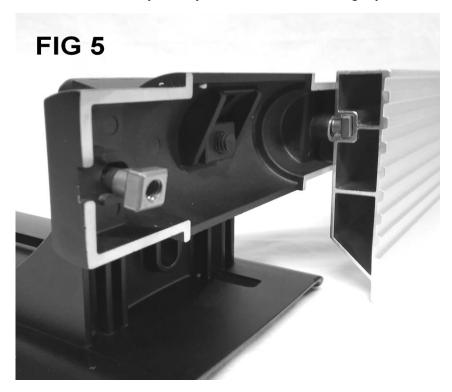


3. Locate the Fence Sliding Bracket (E on page 12) and the 2 screws and 2 square nuts (G on page 12). Insert screws through the Fence Sliding Bracket upper holes "A" in FIG 3, and thread the square nuts on by hand about 3 compete turns. See FIG 4. Do not tighten at this time.

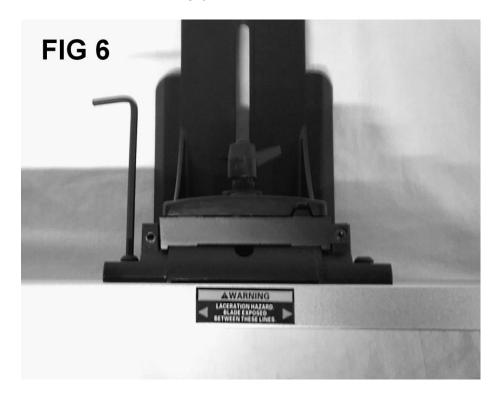




4. Locate fence (K on page 12) and slide from end, with the back of fence facing bracket, over the square nuts as shown in FIG 5. Note that the bottom of the fence is beveled and the square nuts have flats on them so you may have to rotate them slightly to slide the fence on.



5. Slide the fence until centered on the bracket and then tighten the 2 screws used in step 3 using the 4mm Hex Wrench. See FIG 6



6. Facing the rear of the jointer, place the Sliding Bracket Fence Assembly onto the Fence Bracket and slide forward (towards front of the jointer) until the table holes are half exposed as shown in FIG 7.



7. Locate Sliding Bracket Lever, Washer & Nut (F on page 12). Place the nut under the Bracket with the convex surface facing downward. Then place the washer on top of the Sliding Bracket and place the Lever through the washer and thread into the convex nut just enough until fence still slides freely. See FIG 8 and FIG 9. Then slide the fence assembly completely back.





CUTTERHEAD GUARD

The cutterhead guard has a tension return spring. The tension on this spring is set at the factory. When the guard is installed properly it should return to the fence automatically after the work piece has passed over the cutterhead. Be sure the guard is functioning properly every time before using the jointer. If adjustment is necessary, remove the guard and while holding guard attachment base, rotate guard counter-clockwise to increase tension. Then mount guard base while holding guard and mounting base to prevent from losing tension.



DUST PORT & ADAPTER

A dust port (A) is attached with the jointer to help connect it to a standard 4 inch vacuum hose. If needed for 2-1/2" vacuum hose, you can convert it by the supplied adapter (B).



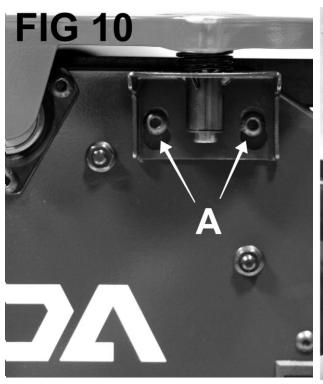
INFEED / OUTFEED TABLE COPLANAR AND CUTTERHEAD PARALLELISM CHECK

The infeed and outfeed tables have been adjusted at the factory before shipment. There is a possibility that they may have shifted during transport and are no longer coplanar or parallel to the cutterhead. Before operating your jointer, a check should be performed using a metal straight edge of at least 24" in length.

NOTE: The red depth of cut indicator should not be used for getting the tables parallel and coplanar. It can be re-adjusted to zero AFTER all adjustments have been made by simply loosening the screws and resetting the indicator.

REMINDER: BE EXTREMELY CAREFUL when working around the cutterhead!!!

1. Locate the 2 screws holding the cutterhead guard bracket and loosen the screws "A" in FIG 10. Grasp the guard and guard bracket as shown and slide up and pull out to remove. See FIG 11 **NOTE**: The cutterhead guard has a tension return spring. The tension on this spring is set at the factory. When the guard is installed properly it should return to the fence automatically after the work piece has passed over the cutterhead. Be sure the guard is functioning properly every time before using the jointer. If tension adjustment is necessary, see previous page.





2. Lower the infeed table to its lowest setting by rotating Infeed Table Lock Knob "A" counterclockwise to loosen and rotate the Infeed Table Lower/Raise Knob "B" clockwise to lower the table. See FIG 12

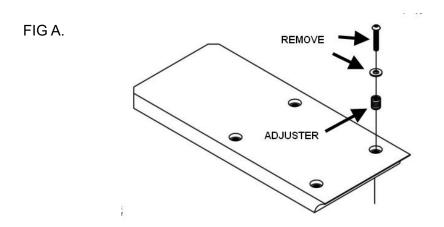


3. Place a metal straight edge at least 24" in length on the outfeed table across the cutterhead near the fence to check for parallelism. Insert the 4mm Hex Wrench into the end of the cutterhead and rotate the cutterhead counter-clockwise with the Hex Wrench until the tip nearest the fence is at its apex. The straight edge should lie flat on the outfeed table and the cutter tip should just touch the straight edge without lifting or moving it. Move the straight edge forward and repeat for front edge of table and cutterhead tip nearest front of machine. See FIG 13 and FIG 14





If the infeed or outfeed tables are not level (parallel) with the cutterhead tips, loosen and/or remove the table screws and washers to access the leveling adjusters. SEE FIG A below.

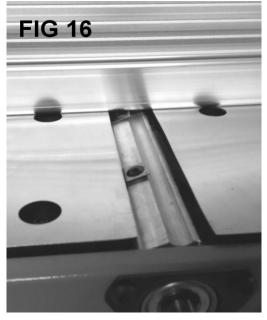


NOTE: Turn adjusters clockwise to raise table or counterclockwise to lower table.

These adjustments, if necessary, may take a few attempts.

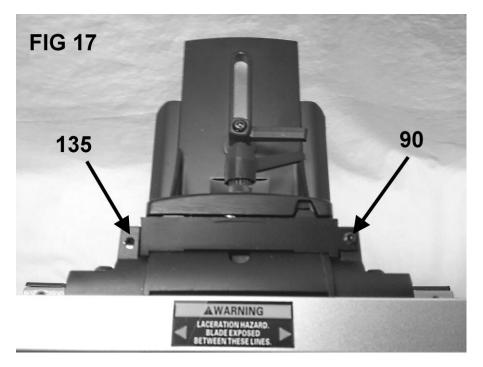
- A. Using a slotted screwdriver, turn adjusters to level outfeed table with cutterhead.
- B. Once parallel, replace the washers and tighten screws.
- 4. Raise the Infeed Table so that it just touches the straight edge at the front. Rotate the cutterhead with the hex wrench so first tip is at its apex. The tip should just touch the straight edge. Repeat moving the straight edge to the fence. If the infeed table is not parallel to the cutterhead or coplanar to the outfeed table, perform the table leveling instructions above. See FIG 15 and FIG 16 When both tables are coplanar and parallel to the cutterhead, continue to next page.



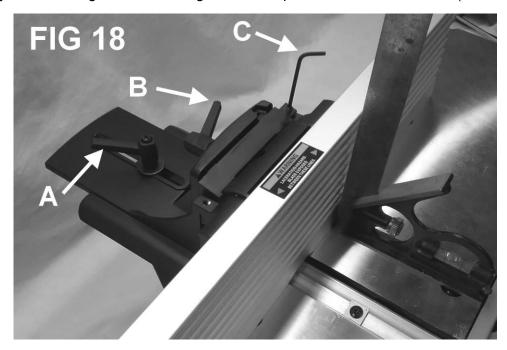


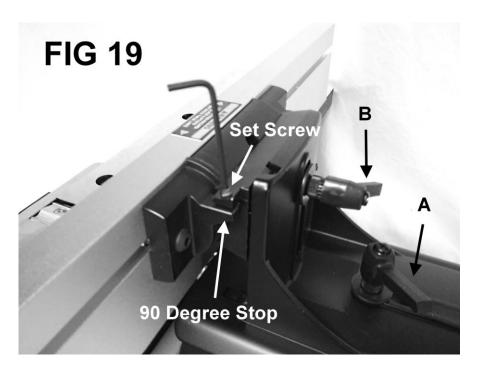
FENCE ADJUSTMENTS

The fence can be tilted from 90 to 135 degrees. There are 2 adjustable stop set screws for these limits. See FIG 17 for the location of these set screws.

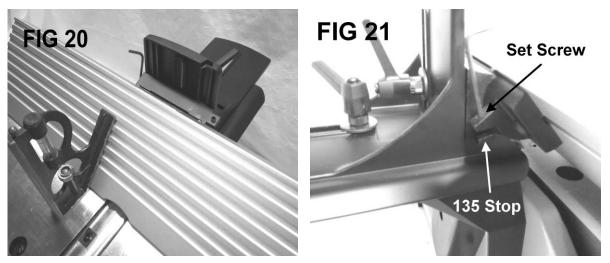


1. To set the 90 degree stop, slightly loosen fence lever "B" and lift fence slightly clearing tables and slide fence forward approximately 1 inch. Let fence rest on tables. Tighten Fence Sliding Bracket Lever "A". Place a square against the fence and use the provided 2.5mm Hex Wrench "C" to adjust the 90 degree set screw against the stop. See FIG 18 and FIG 19 (following page)





2. To set the 135 degree stop, loosen fence lever "A" and slide fence back completely and re-tighten lever "A". Place a 45 degree angle against the fence and use the provided 2.5mm Hex Wrench to adjust the 135 degree set screw against the stop. NOTE: The set screw is set deep into the angled hole at the factory. If necessary, use a flashlight to locate it. See FIG 20 and FIG 21

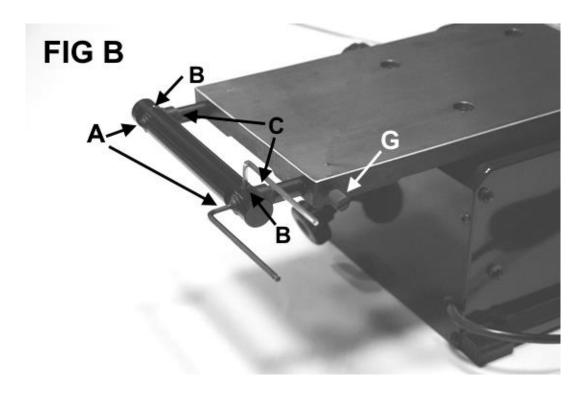


NOTE: These positive stops enable you to quickly position the table to the 90 and 135 degree settings. After successful adjustments, tilt fence back to 90 degrees and lock into position.

INFEED / OUTFEED EXTENSION SUPPORT ADJUSTMENT

The infeed and outfeed extension supports are adjustable for coplanar or parallelism if ever necessary. These are set at the factory. If after planing or edge joining a work piece, an adjustment is necessary, follow these instructions.

- 1. On right hand side of jointer, place a straight edge on the infeed table alone across the infeed extension support and check for parallelism.
- 2. The straight edge should lay flat on the infeed table and the infeed extension support should just touch or leave a very small gap under the straight edge.
- 3. If adjustment is needed, loosen the extension lock nut (G) by hand, pull extension out about 5 inches, and retighten lock nut (G) Then, with the supplied wrench, loosen screws (A) and loosen set screws (B) in top of extension end bar. After completing the above, rotate the rod collars (C) to adjust the height of the end bar. Once correct height has been achieved, tighten the screws (A and B). Then recheck the parallelism. SEE FIG B



Do the same way for the infeed table on the right side of jointer. These adjustments, if necessary, may take a few attempts.

CLEANING SPIRAL CUTTERHEAD & TIPS

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

<u>WARNING!</u> To prevent serious personal injury NEVER rotate the cutterhead by hand. Cutter tips are razor sharp! Always wear heavy leather gloves when handling the cuttherhead. Avoid touching the cutter insert by hand without protection.

WAHUDA spiral cutterheads are machined with a film of oil that may be left over from the process. Removing this oil residue, if apparent, is required before you use your new machine.

- Step 1 Place the machine at a comfortable working height and supply ample lighting. The cutterhead guard should still be removed from previous instructions.
- Step 2 NOTE: Do not get solvent on any painted portion of the machine.

Use the supplied 4mm Hex Wrench inserted into the end of the cutterhead at front of jointer to rotate and hold cutterhead into position. Then, using the supplied T-25 T-Torx Wrench

(J on page 12), carefully remove the cutter tips. Continue rotating the cutterhead with the Hex Wrench and remove the remaining tips. See FIG A



CLEANING SPIRAL CUTTERHEAD & TIPS (cont.)

Step 3 - Separate the tips from the screws and place in separate containers with a bit of mineral spirits or non-chlorinated brake cleaner. Once all are removed, wipe down the bare cutterhead using rags with whichever solvent you chose. Once the oil is wiped off, use an air compressor or a can of pressurized air to clear each seat and screw hole on the cutter head. This will aid in knife and cutter tips reinstallation.

Step 4 - Lubricate the Torx screw threads with light machine oil, wipe the excess oil off the threads, Place each knife in the seat and slightly snug each screw using the Hex Wrench to hold the cutterhead in position. Once you get a row of tips seated and slightly tightened down, repeat by going back over each cutter tip and tighten down the screws securely to 48 to 50 inch / lbs.

REINSTALL THE CUTTERHEAD GUARD ASSEMBLY Grasp the guard mounting bracket in your right hand and pull back on the red cover with your left hand to set proper spring tension. While holding in this position, place bracket over the 2 screws and slide the guard assembly down. Tighten the 2 bracket screws. Use FIG 10 and FIG 11 on page 18 for reference if necessary.

After all assembly and adjustment instructions are completed, use a sacrificial board after cleaning to test for remaining oil. If oil is still apparent, repeat the cleaning method you used above.

OPERATIONS

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

WARNING!

NEVER PASS HANDS DIRECTLY OVER THE CUTTERHEAD.

WARNING!

ALWAYS USE CUTTERHEAD GUARD, PUSH BLOCKS, AND KEEP HANDS AWAY FROM CUTTERHEAD.

NOTE: THE TIPS ON THE JOINTER WILL NOT WEAR EVENLY BY FEEDING THE WOOD THROUGH THE SAME SPOT ON THE TABLE EVERY TIME. FEED THE WOOD THROUGH THE JOINTER AT DIFFERENT SPOTS ON THE TABLE BY REPOSITIONING THE FENCE, WHEN POSSIBLE, TO HELP ELIMINATE UNEVEN WEAR OF THE TIPS.

STARTING AND STOPPING JOINTER

- 1. The on/off switch (A) is located on the front of the jointer. To turn the jointer "ON", fully insert yellow safety key and move switch (A) upwards.
- 2. To turn the jointer "OFF", move the switch downwards and remove safety key. See FIG 24

<u>WARNING!</u> Remove yellow safety key when unit is not in use to prevent unauthorized operation



OPERATIONS (cont.)

DIRECTION OF GRAIN

Avoid feeding work into the jointer against the grain. The result will be chipped and splintered edges or tear out. Feed with the grain to obtain a smooth surface. See FIG 25

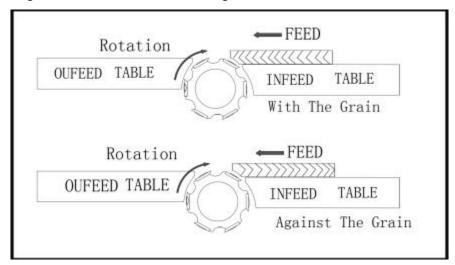


FIG 25

The jointer can be set to cut any depth from a very thin shaving to 1/8" deep. The pointer on the scale is to indicate the depth of cut. To adjust the depth of cut, loosen front lock knob and turn infeed table raise / lower knob clockwise to lower and counterclockwise to raise the infeed table until the infeed table is at the desired position. Retighten lock knob. See FIG 26



OPERATIONS (cont.)

PLACEMENT OF HANDS DURING FEEDING

At the start of the cut, the left hand holds the work against the infeed table and fence, while the right hand pushes the work down and toward the knives. After the cut is underway, the new surface rests on the outfeed table. The left hand should then be moved to the work on the outfeed table, at the same time maintaining flat contact with the fence. The right hand presses the work forward, and before the right hand reaches the cutterhead, it should be moved to the work on the outfeed table.

SURFACING / PLANING

Surfacing is similar to the edge jointing operation except for the position of the work piece. For surfacing, the major flat surface of the work piece is placed on the infeed table of the jointer with the narrow edge of the work piece against the fence. The work piece is moved from the infeed table, across the cutterhead to the outfeed table, establishing a flat surface on the work piece.

<u>WARNING!</u> ALWAYS USE PUSH BLOCKS WHEN PERFORMING SURFACING OPERATIONS AND NEVER PASS YOUR HANDS DIRECTLY OVER THE CUTTERHEAD. See FIG 27



OPERATIONS (cont.)

JOINTING AN EDGE

This is the most common operation for the jointer. These cuts are made to square an edge of a work piece. Set the guide fence square with the table. Depth of cut should be the minimum required to obtain a straight edge. Hold the best face of the piece against the fence with push blocks throughout the feed. See FIG 28



OTHER OPERATION INSTRUCTIONS

- -- Do not perform jointing operations on material shorter than (a dimension equal to the cutter head length plus 2 in), narrower than ¾ in, or less than ¼ in thick.
- -- Do not perform planning operations on material shorter than (a dimension equal to the cutter head length plus 2 in), narrower than ¾ in, or wider than (the cutter capacity in inches) or thinner than 1/2 in.
- -- Maintain the proper relationships of infeed and outfeed table surfaces and cutter head knife path.
- -- Support the work piece adequately at all times during operation; maintain control of the work at all times.
- -- Do not back the work toward the infeed table.
- -- Do not attempt to perform an abnormal or little-used operation without study and the use of adequate hold-down/push blocks, jigs, fixtures, stops, and the like

MAINTENANCE

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

Your jointer 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 joint and plane incorrectly. Periodic cleaning and waxing is needed for accurate precision planing and jointing. Any moving parts should be cleaned regularly with penetrating oil and lubricated with a light coating of medium weight machine oil.

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.

HARDWARE TIGHTNESS

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

NOTE: Remember to do the regular maintenance described in your manual. To feed properly, the jointer and tables need periodic cleaning, waxing and buffing.

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

CUTTER TIP REPLACEMENT - USE PAGE 24 FIG A FOR REFERENCE IF NECESSARY



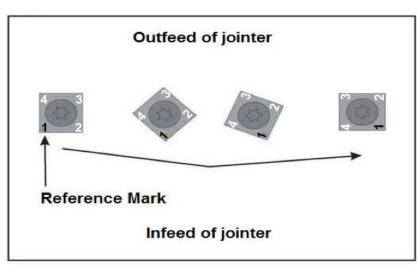
MARNING: To prevent serious personal injury NEVER rotate the cutterhead by hand.

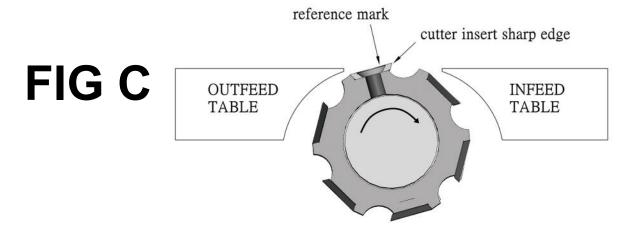
Cutter tips are razor sharp! Always wear heavy leather gloves when handling the cuttherhead. Avoid touching the cutter insert by hand without protection.

The 8" cutterhead is equipped with 16 indexable cutter inserts. Each cutter insert can be rotated to reveal any one of its four cutting edges. Therefore, if one cutting edge becomes dull or damaged, simply rotate it 90° to reveal a fresh cutting edge.

In addition, each cutter insert has a reference mark on one corner. As the cutter insert is rotated, the reference mark location can be used as an indicator of which edges are used and which are new. See FIG B & C

FIG B





DISCONNECT THE JOINTER FROM THE POWER SOURCE!

- Remove any sawdust from the head of the Torx screw.
- Remove the Torx screw and Cutter insert.
- Clean all dust and dirt off the cutter insert and the cutterhead pocket from which the cutter insert was removed, and replace the cutter insert so a fresh, sharp edge is facing outward. Use mineral spirits or non-chlorinated brake cleaner to remove the wood residue off the cutterhead and cutter insert before attempting to rotate them. Using a shot of compressed air is also helpful, be sure to wear safety glasses.

Lubricate the Torx screw threads with light machine oil, wipe the excess oil off the threads, and torque the Torx screw to 48-50 inch/ pounds. When rotating a cutter insert, the cutter insert will seat itself before tightening.

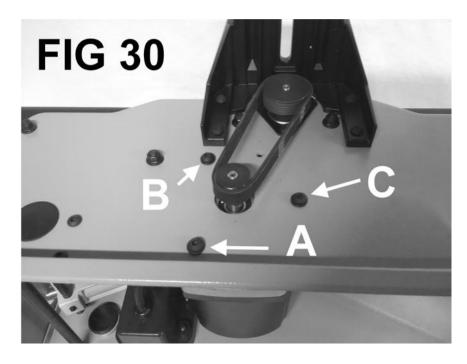
REPLACING THE BELT

<u>WARNING!</u> MAKE CERTAIN THAT THE MACHINE IS DISCONNECTED FROM THE POWER SOURCE BEFORE REPLACING BELT

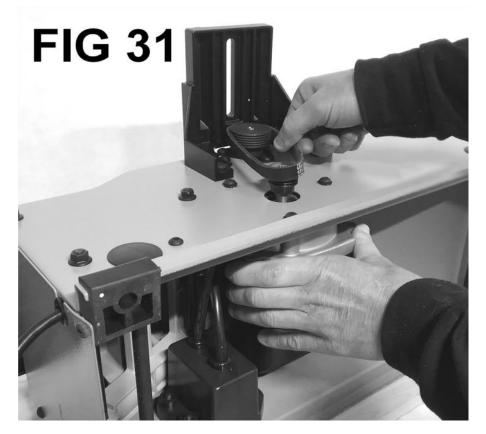
- 1. Place protective material on work surface and lay jointer on its front with rear belt cover facing up and the open bottom facing you. Use scrap pieces to balance the jointer.
- 2. Use the 4mm Hex Wrench to remove the belt guard. See FIG 29



3. Loosen the 3 motor mounting screws "A", "B" and "C", about 1 full turn. See FIG 30



4. From the exposed open base, gently push motor away from you with left hand to release belt tension and rotate the belt to walk the belt off the motor pulley with your right hand. See FIG 31



5. Place new belt over cutterhead pulley and walk belt onto the motor pulley. Make sure that the belt is seated in all cutterhead and motor pulley grooves. Pull right side of motor, to begin tensioning belt, and snug up screw "C". Do not securely tighten "C" at this time. See FIG 32



6. Pull left side of motor, further tensioning belt, and snug up screw "B". See FIG 33.

Repeat steps 5 and 6 if belt is not tensioned properly. Once proper belt tension has been achieved, securely tighten screws "A", "B" and "C" and replace belt cover.

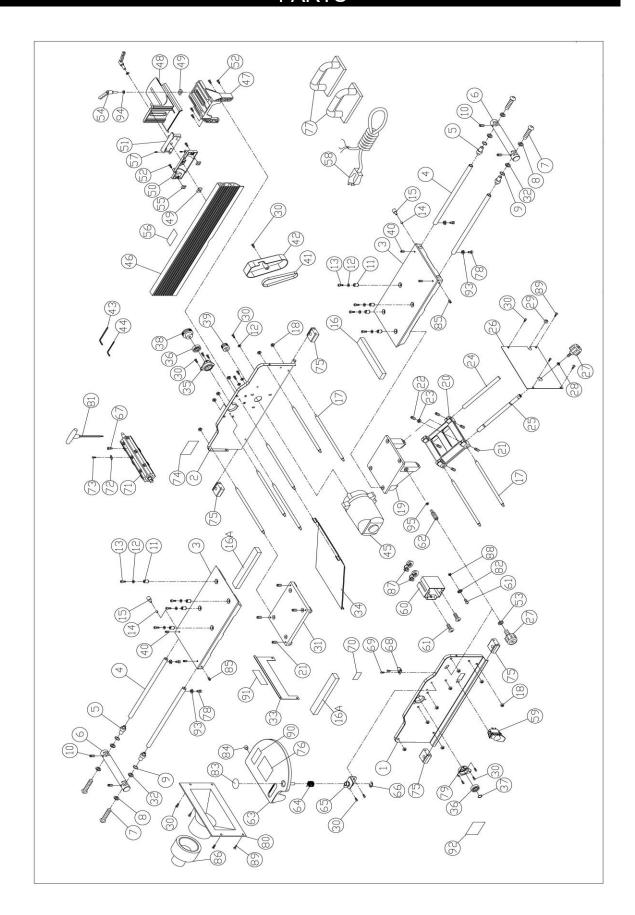


TROUBLESHOOTING GUIDE

PROBLEM	LIKELY CAUSE	SOLUTION
Motor will not start.	Not plugged in.	Check the power source.
	Blown circuit.	Replace fuse, reset breaker, or call
	Lockout key removed.	electrician.
	Improper Voltage.	Replace yellow safety key.
Fuses or circuit	Short circuit in line cord or plug.	Call electrician to repair or replace
breaker blows.	Unit overloaded.	cord or plug for damaged insulation
		and shorted wires.
		Reduce load.
		Operate on circuit separate from
		other appliances or motors or
		connect to circuit with adequate amp
		rating.
Motor fails to	Power supply circuit overloaded	Reduce load on circuit.
develop full power	with lights, appliances, and	Increase wire sizes or reduce length
	other motors.	of the circuit.
	Undersized wires or too long.	
Motor overheats.	Motor overloaded during	Reduce load on motor; take lighter
	operation.	cuts.
	Air circulation through the motor	Clean out motor to provide normal
Matau atalla an alauta	restricted.	air circulation.
Motor stalls or shuts	Motor overloaded during	Reduce load on motor; take lighter
off during a cut.	operation. Short circuit in motor or loose	cuts.
	connections.	Call electrician to repair or replace connections on motor for loose or
	Circuit breaker tripped.	shorted terminals or worn insulation.
	Circuit breaker tripped.	Install correct circuit breaker: reduce
		number of machines running on that
		circuit (circuit overload)
		on our (or our overload)
Blade slows when	V-belt worn out.	Replace V-belt. (See pages 32 – 34)
cutting or makes a	Dull cutter tips.	, , ,
squealing noise on		Replace or rotate tips.
start-up.		(See pages 31 – 32)

TROUBLESHOOTING GUIDE (cont.)

PROBLEM	LIKELY CAUSE	SOLUTION
Vibration when	Loose or damaged cutter tip.	Tighten or replace knife.
operating jointer	Damaged belt.	Replace belt (See pages 32 – 34)
	Worn cutterhead bearing.	Check/replace cutterhead bearing.
Infeed table hard to	Table lock knob is engaged or	Completely loosen the table lock.
adjust	partially engaged.	
Work piece stops at	Outfeed table is too high.	Align outfeed table with cutterhead
the beginning of the		tips . (See pages 18 thru 20)
Chinning or toor out	Vector or coefficient grain	Inspect work piece for knote and
Chipping or tear out	Knots or conflicting grain direction in wood.	Inspect work piece for knots and grain; only use clean stock.
	Nicked or chipped blades.	Rotate or replace knife.
	Feeding work piece too fast	Slow down the feed rate.
	Taking too deep of a cut.	Take a smaller depth for cut(always
		reduce cutting depth when surface
		planing or working with hard woods)
		Slightly moisten wood before use
Fuzzy grain.	Wood may have high moisture	Check moisture content and allow to
	content.	dry if moisture is too high.
	Dull knives.	Replace knives.
Long lines or ridges	Nicked, worn, or chipped	Rotate or replace cutter tips.
that run along the	knives.	·
length of the board.		
Uneven cutter	Feeding work piece too fast	Slow down the feed rate
marks,	Tips not even heights in the	Clean cutterhead & tips so they are
wavy surface, or	cutterhead.	set evenly in the cutterhead.
chatter marks across		
the face of the board.		
Board edge is	Board not held with even	Hold board with even pressure as it
concave or convex	pressure on infeed and outfeed	moves over the cutterhead.
after jointing	table during cut.	Take partial cuts to remove the high
	Board has excessive bow or	spots before a full pass.
	twist along its length. Tables not coplanar.	Adjust tables for coplanar. (See pages 18 thru 20)
	Tables Hot copialial.	It may take 3 to 5 passes to achieve
		a perfect edge depending on the
		condition of the board and the depth
		of cut.



PART NO.	DESCRIPTION	SPECIFICATION	Q'ty
50180-1	Rear Frame		1
50180-2	Front Frame		1
50180-3	Table		2
50180-4	Shaft		4
50180-5	Eccentric Sleeve		4
50180-6	Extend block		2
50180-7	Round Head Screw	M6x45	4
50180-8	Washer	M6	4
50180-9	Wave washer	WW14	4
50180-10	Set Screw	M8x6	4
50180-11	Adjust Screw	M12	8
50180-12	Washer	M6	11
50180-13	Cap screw	M6x30	8
50180-14	PU Block		2
50180-15	Fixed Screw	1/4"	2
50180-16	Foam Seal		3
50180-17	Tie Rod		8
50180-18	Hex Flange Nut	M6	16
50180-19	Infeed Support		1
50180-20	Bracket		1
50180-21	Set Screw	M6x5	9
50180-22	Set Screw	M6x12	1
50180-23	Nut	M6	1
50180-24	Shaft		1
50180-25	Adjusting Rod		1
50180-26	Right cover		1
50180-27	Handle	M8x18	2
50180-28	Nut	M8	1
50180-29	Grommet		1
50180-30	Round Head Screw	M6x10	16
50180-31	Outfeed Support		1
50180-32	Washer	M14	4
50180-33	Left Cover		1

PART NO.	DESCRIPTION	SPECIFICATION	Q'ty
50180-34	Dust Chute		1
50180-35	Bearing Retainer		1
50180-36	Bearing	6201	2
50180-37	C-Ring	S-12	1
50180-38	Drive Pulley		1
50180-39	Motor Pulley		1
50180-40	Set Screw (POM)	M6x6	4
50180-41	Belt	125J-5V	1
50180-42	Belt Guard		1
50180-43	Allen Key	4mm	1
50180-44	Allen Key	2.5mm	1
50180-45	Motor		1
50180-46	Fence		1
50180-47	Fence Bracket		1
50180-48	Fence Slide Bracket		1
50180-49	Special Nut	M8	2
50180-50	Bevel Bracket		1
50180-51	Intermediate Bracket		1
50180-52	Round Head Screw	M6x15	6
50180-53	Washer	M8-D18x2T	1
50180-54	Handle	M8x35	2
50180-55	Square Nut	M6	2
50180-56	Warning Label		1
50180-57	Set Screw	M5x10	2
50180-58	Power Cord		1
50180-59	Switch		1
50180-60	Switch Box		1
50180-61	Round Head Screw	#10-24UNC * 1/2 "	4
50180-62	Positioning Rod		1
50180-63	Guard ASSY		1
50180-64	Spring		1
50180-65	Bracket		1
50180-66	E-ring	ETW-8	1

PART NO.	DESCRIPTION	SPECIFICATION	Q'ty
50180-67	Flat head Screw	M5x15	4
50180-68	Pointer		1
50180-69	Round Head Screw	M4x6	2
50180-70	Depth Scale		1
50180-71	Spiral Cutterhead Assembly	8"	1
50180-72	Insert		16
50180-73	Torx Socket Head Cap Screw	M5x15	16
50180-74	I.D Label		1
50180-75	Foot		4
50180-76	Warning Label		1
50180-77	Push Block		2
50180-78	Cap Screw	M6x6	4
50180-79	Bearing Retainer		1
50180-80	Dust Port		1
50180-81	Torx Wrench		1
50180-82	Tooth washer	M5	2
50180-83	Hole Plug		1
50180-84	Bumper Block		1
50180-85	Set Screw	1/4"-20UNC	2
50180-86	Dust collector adapter		1
50180-87	Strain Relief		2
50180-88	Nut	#10-24	2
50180-89	Tap Screw	1/4"-20UNCx1/2"	4
50180-90	Warning Label		1
50180-91	Warning Label		1
50180-92	Logo Label		1
50180-93	Spring Washer	M16	4
50180-94	Washer	M8-d23X2T	2
50180-95	Washer	M8	1