

Jointer

# Model 4225

Owner's Manual

For Models with Serial Numbers starting with 256



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Manual Version: 2.0.0



**READ AND UNDERSTAND ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO ASSEMBLE OR OPERATE THE MACHINE.**

**FOLLOW THE INSTRUCTIONS AND THINK SAFETY!**

**THE OWNER OF THIS MACHINE IS SOLELY RESPONSIBLE FOR THE SAFETY OF ANYONE USING THIS MACHINE. SUCH RESPONSIBILITY INCLUDES BUT NOT LIMITED TO:**

- **PROPER ASSEMBLY, OPERATION, INSPECTION, MAINTENANCE, AND RELOCATION OF THE MACHINE.**
- **PROPER TRAINING FOR THE OPERATORS AND ENSURES THIS MANUAL IS AVAILABLE AT ALL TIMES.**
- **USAGE AUTHORIZATION.**
- **USAGE OF SAFETY AND PROTECTION DEVICE.**

**OLIVER MACHINERY DISCLAIMS ANY LIABILITY FOR MACHINES THAT HAVE BEEN ALTERED OR ABUSED. OLIVER MACHINERY RESERVES THE RIGHT TO EFFECT AT ANY TIME, WITHOUT PRIOR NOTICE, THOSE ALTERATIONS TO PARTS, FITTINGS, AND ACCESSORY EQUIPMENT WHICH THEY MAY DEEM NECESSARY FOR ANY REASON WHATSOEVER.**

**\*\* SAVE THIS MANUAL FOR FUTURE REFERENCES. \*\***

## **PROP 65 NOTICE**

**WARNING:** Drilling, sawing, sanding, or machining wood products can expose you to wood dust, and/or other chemicals that are 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.

Avoid inhaling wood dust and other harmful chemicals. Use a dust mask and/or other safety devices for personal protection.

For more information go to <http://www.P65Warnings.ca.gov/wood>

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# Introduction

Thank you for choosing Oliver! This manual contains important information on how to safely set up, operate, and maintain this machine. Please take the time to read through this manual, and make sure you understand all instructions.

While this manual may provide tips on optimizing the result of your workpiece, the manual is not intended as a substitute for formal woodworking training. If you need to know how to safely complete a woodworking task, please consult knowledgeable and qualified sources before proceeding further.

We made every effort to keep this manual up-to-date. Instructions, specifications, drawings, and photographs in this manual should match the machine delivered. If you find any differences, or anything that seems confusing in this manual, or some instructions are not available, please check our website for an updated version:

**[WWW.OLIVERMACHINERY.NET/MANUALS](http://WWW.OLIVERMACHINERY.NET/MANUALS)**

Alternatively, you can contact our technical support for help:

**1-800-559-5065**

Before calling, please note down the manufacture date and the serial number of the machine. You can find the information on a nameplate located on the back of the machine, right above the electrical junction box. This information is needed to provide proper technical support, and to determine if an updated manual is available for your machine.

Please let us know how well this manual serves you. If you have any suggestions, please call the number above or email us at:

**[info@olivermachinery.net](mailto:info@olivermachinery.net)**

We love to hear from our customers and make improvements.



# Specifications

## Quick View

Model	4225 Jointer
Stock Number	4225.201
Motor	TEFC Induction Motor 1HP, 115V/230V, 1Ph
Jointer Size	5-1/2"
Max. Depth of Cut (Jointing)	1/8"
Max. Depth of Cut (Rabbeting)	1/2"
Bevel Joining	45°-135° (With quick stops at 45°, 90°, 135°)
Dimensions	60-1/4"(L) x 19-1/4"(W) x 35-1/2"(H)
Footprint	30-1/4"(L) x 11-7/8"(W)
Fully Assembled Weight	240 lbs.
Warranty	1 Year (Motor and electronics) 2 Years (All other parts)

## Product Dimensions

Jointer Fully Assembled	60-1/4"(L) x 19-1/4"(W) x 35-1/2"(H)
Footprint	30-1/4"(L) x 11-7/8"(W)
Fully Assembled Weight	240 lbs.

## Shipment Info

Type	Wood Crate on a Pallet
Content	Jointer with included accessories
Dimensions	64-1/2" (L) x 22-3/4"(W) x 43-1/2"(H)
Weight	366 lbs.
Approximate Setup Time	30 minutes
Must Ship Upright	YES
Stackable	NO

## Electricals

Power Requirement	115V/230V, 1Ph, 60Hz
Prewired Voltage	115V
Full Load Current Rating	13A @ 115V 6.5A @ 230V
Recommended circuit size	20A @ 115V 15A @ 230V
Power Switch Type	Magnetic paddle switch
Connection Type	NEMA 5-15 Plug with 80' 14 AWG Cord

### *Motor*

Motor Type	TEFC Induction Motor
Horsepower	1HP
Speed	3450 RPM
Efficiency	72.7%
Power Factor	73.6%
Power Transfer Mechanism	Poly V-belt and pulleys
Bearing type	Permanently sealed ball bearing

### *Jointer Capacity and Performance*

Maximum Stock Width	5-1/2"
Maximum Depth of Cut for Jointing	1/8"
Maximum Depth of Cut for Rabbeting	1/2"
Minimum Stock Thickness	3/4"
Minimum Stock Length	10"

### *Fence*

Dimensions	29" (L) x 3-7/8"(H)
Fence Tilt	45° - 135°
Fence Stops	45°, 90°, 135°
Material	Precision ground cast iron

### *Cutterhead*

Cutterhead Type	Helical
Cutterhead Diameter	2-33/64"
Cutterhead Speed	5500 RPM
Number of Cutter Inserts	28
Number of Rows of Cutter Inserts	4
Cutter Insert Type	Four-sided, indexable carbide
Cutter Insert Diameters	15mm x 15mm x 2.5mm
Cutter Blade Angle	30 degree
Cutter Insert Screw Tensioning Torque	52-60 lb-in

### *Table*

Table Dimensions	60-1/4"(L) x 6"(W)
Table Height Above Ground	31-1/4"
Table Lifting / Adjustment Mechanism	Parallelogram
Material	Precision ground cast iron

### *Measurements*

Measurement Unit	Inch
Measurement Devices	Depth Scale

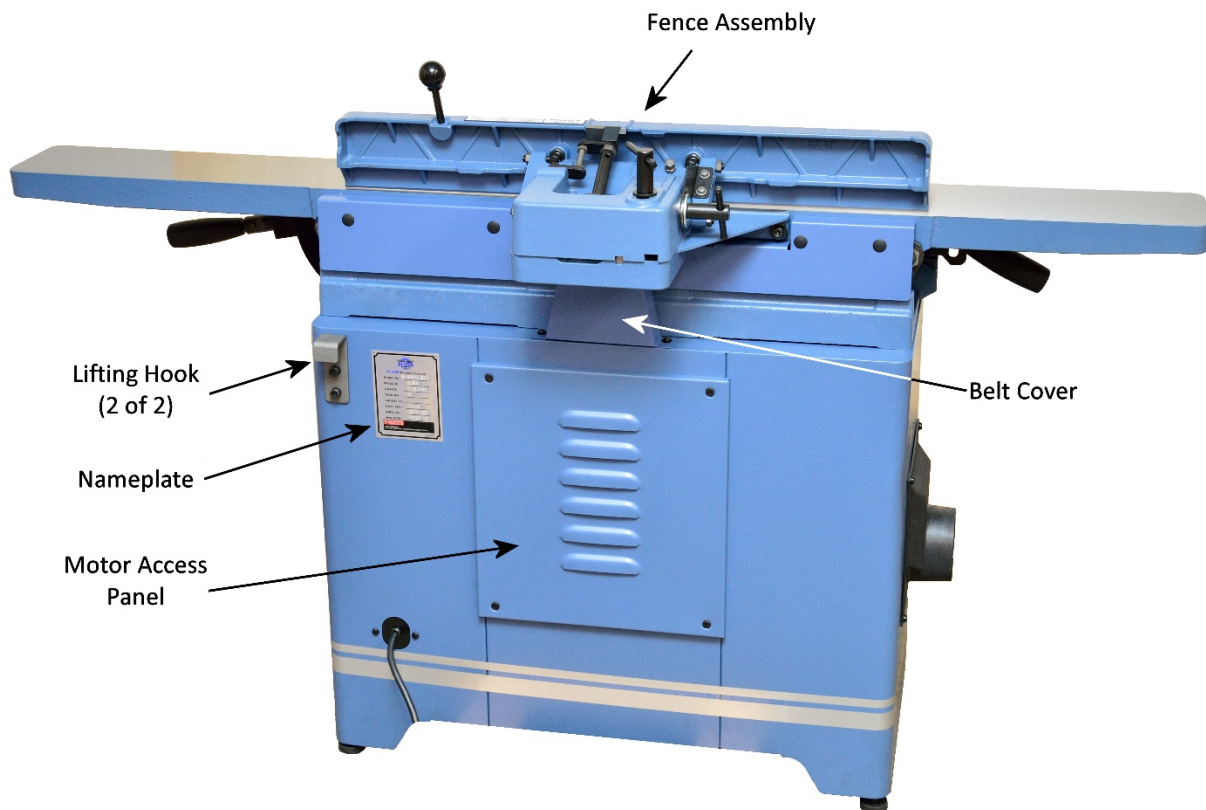
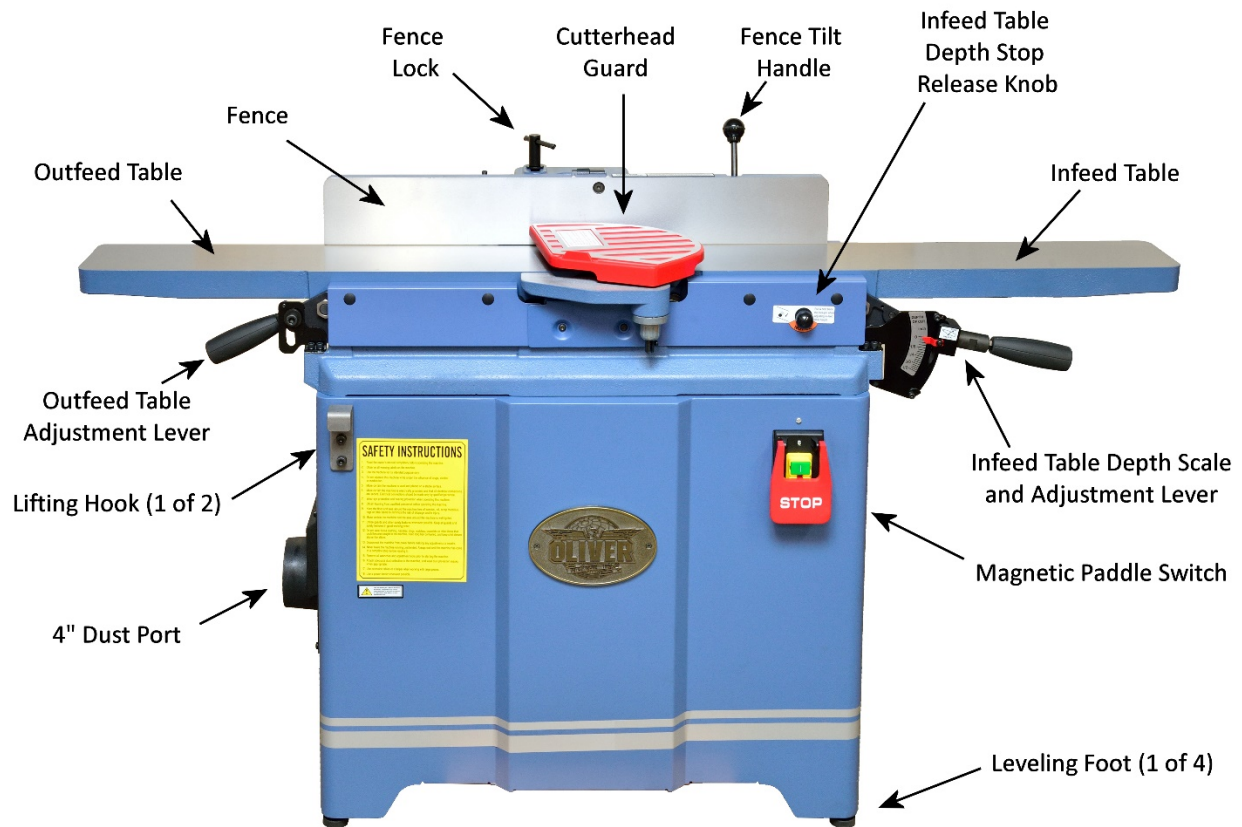
### *Safety*

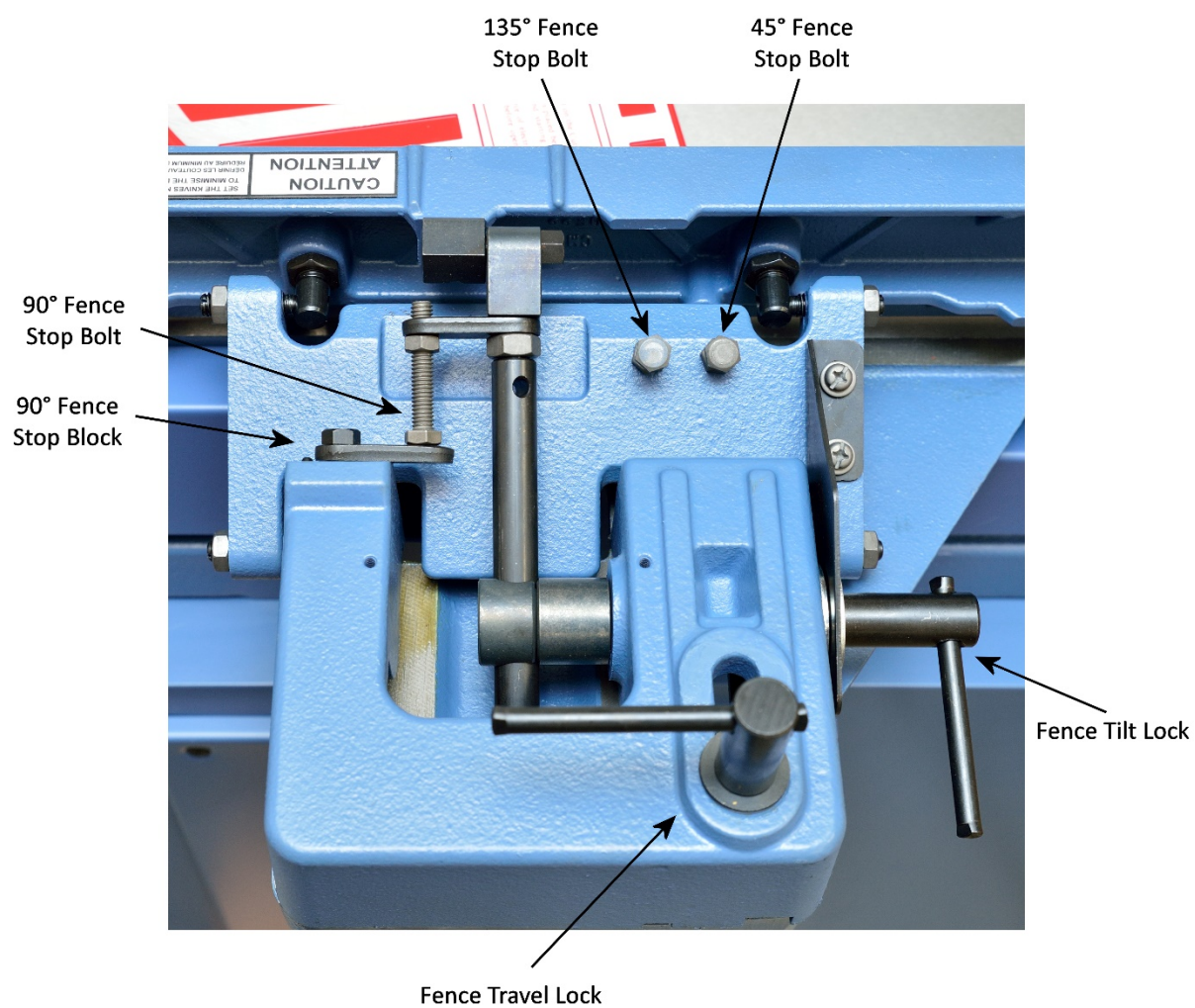
Number of Dust Ports	1
Dust Port Size	4"
Minimum CFM Required	400 CFM
Sound Rating @ 2' distance	82 dB

### *Others*

Serial Number Location	On the back of the machine.
<i>Spare Parts Included</i>	Five cutter inserts and compatible Torx screws.
Certification	CSA 175370
Country of Origin	Taiwan

# Identification










# Safety

Oliver Machinery has made every attempt to provide a safe, reliable, easy-to-use piece of machinery. Safety, however, is ultimately depending on the individual machine operator. **Before operating this machine, please become familiar with the following safety labels and guidelines.**

 <b>DANGER</b>	This indicates an imminently hazardous situation which, if not avoided, <b>WILL</b> cause death or serious injury.
 <b>WARNING</b>	This means if the warning is not taken seriously, it <b>CAN</b> cause death or serious injury.
 <b>CAUTION</b>	This means if the precaution is not taken, it <b>MAY</b> cause minor or moderate injury.
<b>IMPORTANT</b>	This is a tip for properly operating the machine to avoid machine damage.

## General Safety Guidelines

1. **FAMILIARIZE** yourself with all safety instructions found in this manual. Know the limitations and hazards associated with this machine. Do not operate/service this machine until you are properly trained.
2. **ELECTRICAL GROUNDING**, when done properly, reduce the risk of electrocution, shocks, and fire. Make certain that the machine frame is electrically grounded and that a ground lead is included in the incoming electrical service. In cases where a cord and a plug are used, make certain that the grounding plug connects to a suitable ground. Follow the grounding procedure indicated in the electrical code of your area.
3. **DISCONNECT** the machine from power before performing any service, maintenance, or adjustments. A machine under repair should be RED TAGGED to show it should not be used until the repair is complete.
4. **EYE PROTECTION**: Always wear an approved safety face shield, goggles, or glasses that complies with ANSI Z87.1 and CSA Z94.3 standards. Common eyeglasses are not safety glasses, and may not provide adequate protection.
5. **EAR PROTECTION**: Use hearing protective devices where the noise exceeds the level of exposure allowed in Section 1910.95 of the OSHA Regulations. When in doubt, use it.
6. **OTHER PERSONAL PROTECTION**: Before the operation, remove tie, rings, watch, and other jewelry. Roll up sleeves above elbows. Remove all loose outer clothing and confine long hair. Protective footwear should be used. Do not wear gloves unless it is instructed to perform a particular step(s) in the manual.
7. **GUARDS**: Keep machine guards in place for all applicable operations. If any guards are removed for maintenance, DO NOT OPERATE the machine until all guards are reinstalled. Check clearance between the guards and the cutter before starting the machine.
8. **WORKPLACE SAFETY**: Keep the floor around the machine clean. Scrap material, sawdust, oil, and other liquids increase the risk of tripping or slipping. Be sure to clean up the table before starting the machine. Make certain the work area is well lighted and that a proper exhaust system is used to

minimize dust. Use anti-skid floor strips on the floor area where the operator normally stands and mark off the machine work area. Provide adequate workspace around the machine.

9. **ACCESS CONTROL** should be enforced so only trained personnel can access the work area and operate the machine. Use a childproof power switch when applicable.
10. **STAY ALERT** at all times. Do not operate this machine while under the influence of drugs/alcohol, or when not feeling well.
11. **NEVER STAND ON MACHINE.** This prevents injuries from tipping related accidents and accidental contacts with cutters.
12. **REPLACEMENT PARTS:** Use only genuine Oliver Machinery replacement parts and accessories recommended for this machine. Generic parts made by other manufacturers may create a safety hazard and WILL void the factory warranty and other guarantees.
13. **PROPER USE:** Do not use this machine for anything other than its intended use. If used for other purposes, Oliver Machinery disclaims any real or implied warranty and holds itself harmless for any injury or damage which may result from that use.

## Safety Guidelines Specific to Jointer

### Before Work Begins:

1. **USE ONLY NATURAL, SOLID WOOD.** Do not joint any material such as plywood, MDF, OSB, laminate, or anything that can disintegrate during operation. Do not joint treated lumber or anything that contains harmful chemicals, as this will spread wood dust that contains such harmful chemicals. Do not attempt to joint any workpiece with loose knots or with any other foreign materials.
2. **CHECK CUTTER INSERTS:** Make sure cutter inserts are sharp, clean, and free from damages. Forcing dull/damaged cutter inserts to work invites accidents and impacts finish quality. Use the recommended amount of torque to securely fasten all inserts onto the cutterhead.
3. **SERVICING CUTTER INSERTS:** Wear heavy-duty leather gloves to protect your hands when installing new cutter inserts or rotating the existing ones. Ensure the cutterhead is thoroughly clean before installing the insert. Debris between the cutter insert and the platform can create uneven pressure, causing the insert to break, and body injuries may occur.
4. **CHECK CUTTERHEAD GUARD:** Make sure the cutterhead guard is installed and is properly tensioned. The cutterhead guard should spring back and push against the fence after it is rotated away and released.
5. **CHECK OUTFEED TABLE HEIGHT AND ALIGNMENT** to avoid a workpiece getting stuck while feeding. The outfeed table should be flush with or slightly below the cutting arc of the cutterhead.
6. **CHECK DEPTH OF CUT SETTING.** The maximum depth of cut for each pass is 1/8".
7. **SUPPORT LONG WORKPIECE** with auxiliary stock feeding rollers/tables. This helps to avoid injuries and improves the quality of the finish.



### When Jointing:

1. **DUST COLLECTION SYSTEM** is required for this jointer. Please make sure the system is on and provide enough suction before starting the jointer.
2. **KICKBACK** happens when a workpiece is ejected at high speed during operation. Kickback projectiles can cause serious injuries or even death. Sudden movements of the workpiece from kickback can also cause hands or other body parts to get pulled into the cutterhead. The operator should be cautious at all times about possible kickback.
3. **PROPER STOCK FEEDING** reduces the chance of kickback. NEVER start the machine with anything engaging the cutterhead. NEVER start feeding until the jointer has reached its full speed. Use the right amount of downward pressure and forward force for feeding.
4. **INSPECT WORKPIECE.** Ensure the workpiece is free from nails, loose knots, and other foreign material. Use a metal detector to scan for metal objects as appropriate.
5. **NEVER** joint material shorter than 10", thinner than 3/4", or narrower than 2". This reduces the risk of accidental contact with the cutterhead.
6. **NEVER** rabbet material with width or thickness less than 3/4", or shorter than 10".
7. **FOLLOW THE 3-INCH RULE.** Always use push blocks when jointing materials less than 3" in thickness or width. Keep your hands at least three inches away from the cutterhead at all times when the machine is running.
8. **CUPPED WORKPIECE** should be jointed with the cupped side facing down. This prevents the workpiece from rocking when feeding through the jointer.
9. **PAY ATTENTION TO THE GRAIN DIRECTION.** Always cut WITH the grain whenever possible. Jointing against or across the grain, or jointing the end grain increases the chance of tear-out and kickback.

### After Operation

1. **STOP THE MACHINE** if the operator leaves the machine for any reason.
2. **WAIT** until the machine comes to a complete stop.
3. **CLEAN UP** and **LOCK POWER SWITCH** before departure.

# Electricals



**WARNING** All electrical work must be done by a qualified electrician and must meet the electrical code in your area.

## Minimum Circuit Size Required for Model 4225 Jointer

Stock Number	Minimum Circuit Size Required
4225.201	13A @ 115V 6.5A @ 230V

Please ensure the electrical circuit for this machine meets the minimum circuit size requirement. The minimum circuit size requirement applies to a dedicated circuit that provides power to one 4225 Jointer. If more machines are sharing the same circuit, consult a qualified electrician to ensure the designated circuit is properly sized for safe operation.

If a circuit is available, but not meeting the minimum circuit size requirement listed above, a new circuit must be installed for this machine.

## Grounding



**WARNING** Improper grounding can cause electric shock, fire, and equipment damage.

Proper grounding reduces the risk to the operator in the event of electrical malfunction or breakdown. This machine must be connected to the grounding conductor when available, and all grounding connections must meet or exceed the electrical code requirements in your area. Furthermore, all grounds must be verified and must meet or exceed the electrical requirement of the machine. If grounding is not available, consider the use of a GFCI protection device as an alternative, if this complies with the electric code in your area.

## Electrical Wiring

This machine is pre-wired for 115V with a cord and a NEMA 5-15 plug. Please refer to the section “Wiring Diagram” on page 50 for rewiring this machine for 230V operations. A 230V compatible plug is required.

Use of extension cord is not recommended. If you need to use an extension cord to connect to a power source, select a durable cord type with high-temperature rating (90C° or above). Use the minimum amount of extension cord as needed.

Minimum cord size (AWG) required based on amperage draw and length of the cord:

<i>Amps</i>	<b>Power Cord Length</b>				
	25 feet	50 feet	75 feet	100 feet	> 100 feet
< 5	16	14	14	14	NR
5 to 8	14	14	14	12	
8 to 12	14	14	12	10	
12 to 15	12	12	10	10	
15 to 20	10	10	10	NR	
21 to 30	10	NR	NR	NR	

\*NR: Not Recommended



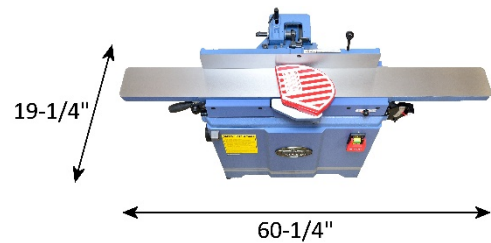
Use properly sized wires that meet or exceed the power requirement of your machine. Using undersized wires may cause overheating and increase the risk of fire and machine damage.

# Setup

## Shop Preparation

### Space Requirement

The dimensions of this machine are 60-1/4" (L) x 19-1/4" (W). You will need additional spaces for manipulating your workpiece, electrical connection, and dust collection.



### Load Limits

This machine has a shipping weight of 366 lbs., and a net weight of 240 lbs. Please ensure all lifting tools and building structures have adequate load capacity, for transporting and supporting the total weight of this machine, the operator, and related items.

### Electricals

Ensure a properly sized circuit and an electrical terminal are available nearby the machine. If the machine is to be hardwired, there must be a readily accessible power disconnect nearby, so that the machine can be disconnected from the power source for servicing and adjustments. If the machine is to be connected with a cord and a plug, please ensure a matching outlet is installed nearby the machine.

Please refer to section "Electricals" in this manual for details regarding electrical requirements.

### Lighting

Adequate lighting is needed for operating this machine. Overhead, non-glare lighting should be installed.

### Safety Labels

If this machine introduces a new safety hazard to your workplace, display proper warning signs in a highly visible location(s).

### Dust Collection

Wood dust created by this jointer is a health hazard. Connect a dust collection system to this machine. Check air suction regularly to ensure the pipes are not jammed.

Dust masks should be available for using the jointer.



#### CAUTION

**Use a dust collection system that is rated above 400 CFM. Doing so improves air quality in the workplace, and prevents the machine from jamming.**

**Piping of dust collection system introduces additional air resistance and decreases the effective CFM measured at the dust ports. Ensure there is significant suction at the dust port, so dust and debris can be effectively removed from the machine.**

## Receiving

Your shipment should come with one wood crate. Upon receiving your shipment, check for any significant damages before signing the delivery confirmation.

### IMPORTANT

If items are damaged, please call us immediately at **1-800-559-5065**

## Moving Machine into the Shop

Your machine will be delivered by freight service, and it will be left outside of your workshop by default. On the day of delivery, please be sure help is available to move the machine to its final location.



**4225 Jointer has a gross weight of 366 lbs. and a net weight of 240 lbs.**

**Safe moving techniques and proper lifting equipment are required, or serious personal injury may occur.**



**Your shipment may be secured by the straps. Do not lift your shipment by the strap. They are not designed to hold the total weight of your shipment. They may snap without warning and cause serious injury and machine damage.**

**Always wear safety goggles and gloves when removing straps, as they may spring back violently when released and cause injury.**

### IMPORTANT

**Install the provided lifting hooks and use them for lifting the jointer. Do not lift the machine by the tables as it may alter the alignment of the tables.**

## Unboxing

The crate contains a jointer that is mostly assembled. It also contains a paper box with loose parts and accessories. Everything is covered by a plastic bag.



## Inventory

Carefully unwrap the packaging and inventory the items received:



Item	Description	Quantity
1	T-Handle torx drivers (T-25)	2
2	Spare Cutter Inserts	5
	Spare Torx Screws	10
3	8/10 mm Open End Wrench	1
4	11/13 mm Open End Wrench	1
5	Metric hex wrench set (3mm, 6mm)	1
6	Push blocks	2
7	Cutterhead guard	1
8	Lifting Hooks	2
	Cap Screws	4
	Spring Washers	4

**NOTICE:** If you cannot find an item in the list above, please check if it is still attached to the packaging or inside the cabinet. Occasionally the item may have been pre-installed in the factory. See section “**Parts List**” to check if a component is included or installed.

**NOTICE:** This machine comes with various standard sized, non-proprietary parts. If any of these parts are missing, we are happy to deliver them to you. To have the machine up and running as soon as possible, you can also find these parts at your local hardware store.

## Additional Items Recommended for Machine Setup

<i>Item</i>	<i>Purpose</i>
Safety Glasses	Protection
Disposable Gloves	Protection
Paper Towel / Rags	Cleaning
Rust Inhibitor	Cast iron rust protection.
Straight edge	Check alignments.
Metric Hex Wrench Set	Assembly and Maintenance
Torque Wrench	Cutter inserts installation and for checking Torx screw tension (52-60 lb-in).
T25 Star Bit Socket	Cutter inserts installation.

### Cleaning

To prevent rusting, the unpainted cast iron surfaces of this jointer are covered with machine oil and plastic film. Loosen the fence locks to lift up and retract the fence, then remove the packaging and wipe off the machine oil with paper towels or rags.



After the initial cleaning, routinely coat the unpainted cast iron surface with rust preventive such as Boeshield® T-9 or paste wax. Do not use rust preventives that contain silicone, which is known to interfere with certain finishes and glues.



## Assembly

This jointer is mostly assembled in the factory. There are a few more steps to complete before the machine is ready for a test run:

1. Inspect / Adjust Jointer Tables (optional).
2. Install cutterhead guard.
3. Install lifting hooks.
4. Leveling Machine as needed.
5. Connect jointer to a dust collection system.

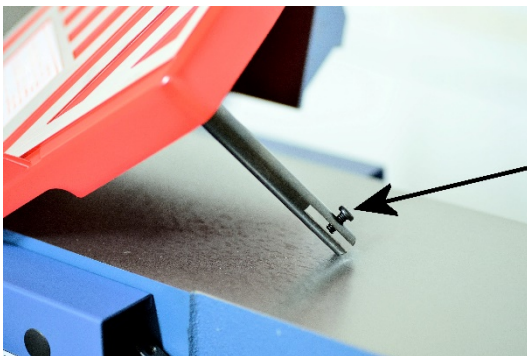
Cleaning and assembly will take approximately 30 minutes30 minutes.

### Inspect / Adjust Jointer Tables (Optional)

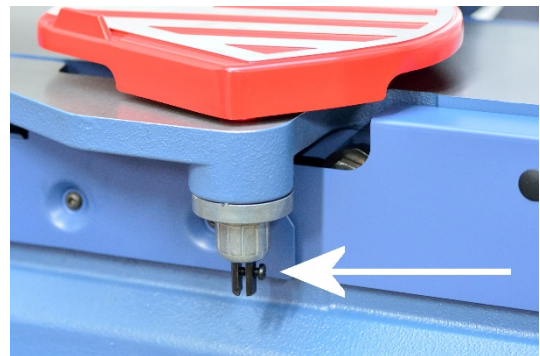
The jointer tables are calibrated in the factory and should not require adjustments initially. Refer to section "Maintenance -> Inspect / Adjust Jointer Tables" on page 37 to perform these steps if needed.

### Install Cutterhead Guard

1. Remove the screw on the cutterhead guard shaft.
3. When the guard is installed, reinstall and tighten the screw on the shaft.



2. There is a spring-loaded knob at the bottom of the rabbeting table. Insert cutterhead guard shaft into the hole on the rabbeting table. Rotate the knob counter-clockwise by about 1/2 - 1 turn to allow the shaft to be fully seated.



#### WARNING

Always operate this jointer with a cutterhead guard, except for some rabbeting operations. Serious personal injury may occur when operating a jointer without a cutterhead guard.



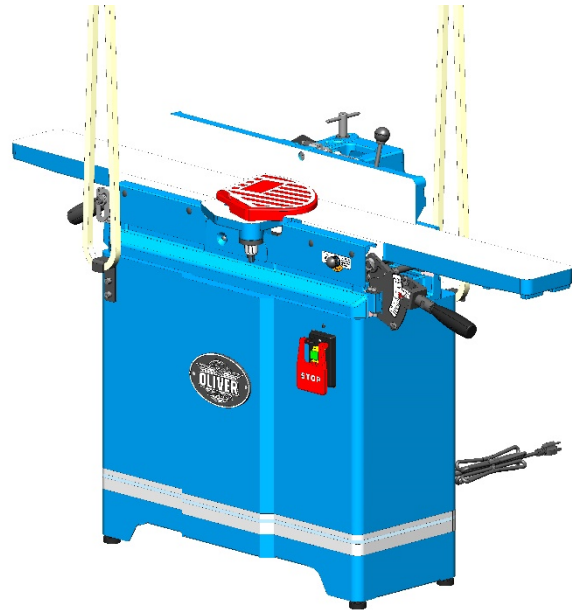
## Install Lifting Hooks

Before moving the machine to its final location, install the lifting hooks. Use the cap screw and spring washers to secure the lifting hooks on the front and back of the cabinet.



## Lifting Machine

Attach the lifting sling to the lifting hooks. Gently lift the machine from the crate and move it to its final location.



### WARNING

4225 Jointer has a net weight of 240 lbs. Only use lifting devices that are capable of handling the load, or serious personal injury and machine damage can occur.

### IMPORTANT

Use the provided lifting hooks to move the jointer. Do not lift the machine by the tables as it may alter the alignment of the tables.

## Leveling Machine

This jointer should be positioned on a level, stable floor. If the machine is rocking on the floor, rotate the leveling feet and make sure all four rubber feet make contact on the floor. Tighten the jam nut on each rubber foot to keep it in place.



## Dust Collection

This jointer can generate a lot of wood shavings and dust. Connect a dust collection system to this machine.

The minimum CFM requirement for this jointer is 400 CFM at the dust port, which means your dust collection system should have a rating greater than 400 CFM, as air friction and leakage reduce effective CFM at the dust port.

### **IMPORTANT**

**Running this jointer without a dust collection system, or using an underpowered system, will cause dust and shavings to accumulate inside the jointer. This can damage the machine and cause other hazardous situations. Check your dust collection system regularly to make sure it is not jammed or filled up.**



# Controls and Components

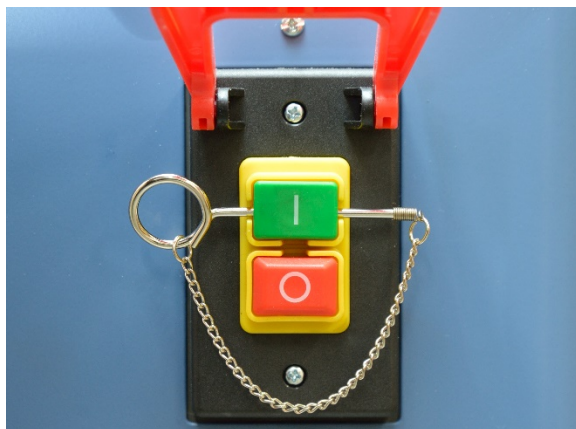
## Powerswitch

This jointer is equipped with a magnetic paddle switch. Make sure the paddle is installed before turning on the machine. The paddle allows the operator to easily turn off the machine in case of an emergency.

If the power goes out while the machine is running, this magnetic power switch will turn off automatically. This prevents the machine from restarting expectedly when power resumes.

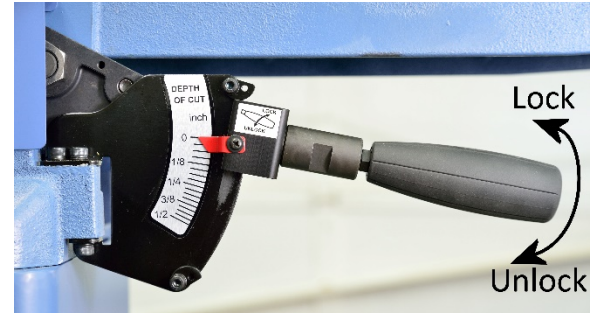


This switch also comes with a safety feature to prevent the jointer from turning on by accident. Lock the machine by inserting a pin or padlock (not included) through the “ON” button. Test the locking device to make sure it can disable the switch.



## Infeed Table Adjustment

The infeed table adjustment lever and depth scale are located right below the infeed table:



**To adjust infeed table height:**

1. Rotate the handle counterclockwise to loosen the locking mechanism.
2. Use the depth gauge to set the infeed table height.
3. Rotate the handle clockwise to lock the table in place.

## Infeed Table Depth Stop Knob

This jointer has a maximum depth-of-cut capacity of 1/8" for jointing operations. The purpose of the depth stop is to prevent having a cut deeper than 1/8".

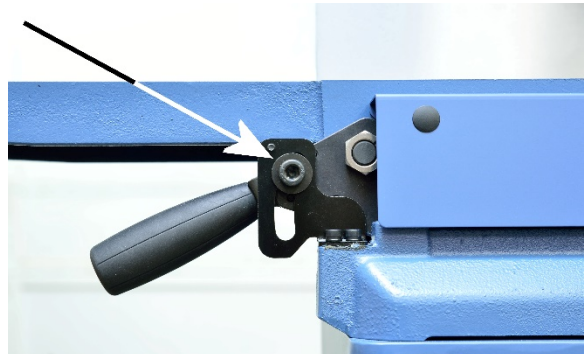
To create a rabbet with more than 1/8" in depth, make several passes to gradually remove the materials. Pull and hold the knob when lowering the infeed table below 1/8".



### Outfeed Table Height Adjustment

The outfeed table height adjustment lever is located below the outfeed table and is locked by a cap screw.

The height of the outfeed table was set in the factory and it should not require adjustments initially.



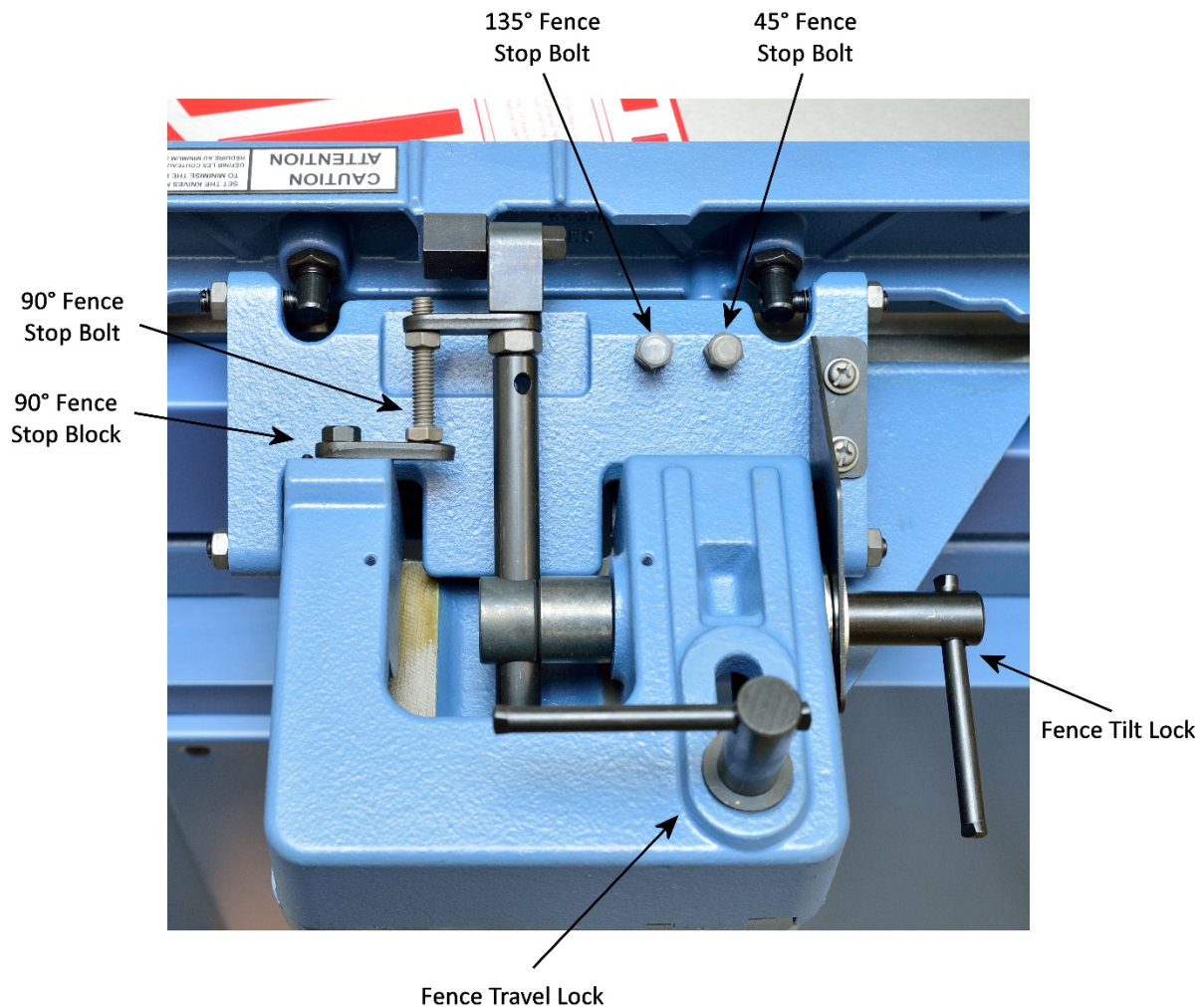


## Fence

The cast iron fence assembly has three adjustable positive stops at 45°, 90°, and 135°.

To set the fence at 90°, flip the 90° stop block to the right as shown in the picture below. Make sure the 90° stop bolt is resting on the 90° stop block.

To tilt the fence, flip the 90° stop block to the left.



The fence can be retracted and raised above the table to provide additional clearance for servicing the cutterhead.



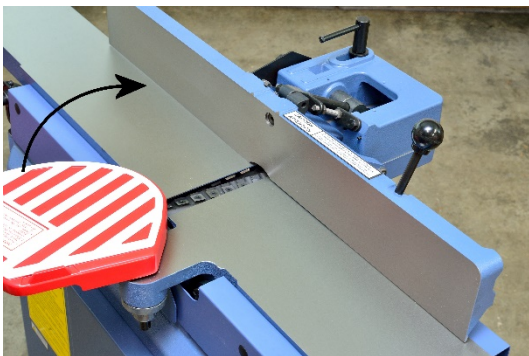
## Test Run

Each jointer has been inspected and calibrated before leaving the factory to meet our quality and precision standards. Due to various reasons, this jointer may need to be re-adjusted when it arrives at your workshop. It is recommended to complete this test run before using the jointer for production work, and repeat if the jointer is relocated.

1. Remove all tools and debris from the machine. Ensure this jointer is disconnected from the power source.
2. Set the fence to 90 degrees. Move it all the way back to expose the entire jointer table. Ensure the cutterhead guard is pushing against the fence.



3. Rotate the guard to expose the entire cutterhead, then gently release the guard. The cutterhead guard should rotate back to its original position.



**WARNING:** If the cutterhead guard fails to push against the fence, **STOP HERE**. Adjust guard tension before resuming the test run.

4. Press the STOP button.
5. Connect this jointer to a power source.
6. Press the green “ON” button. This jointer should be running with no excessive noise and vibration.
7. Disconnect the machine from the power source while it is running. The magnetic power switch should turn off automatically as it is disconnected from power. Reconnect the machine to power and the machine should **NOT** restart.
8. Set infeed table depth of cut to 1/32”.
9. Turn on the dust collection system and the jointer.
10. Surface plane a test workpiece. See section “Surface Planing” on page 29 for detailed instructions. The workpiece should move through the jointer with ease.
11. Inspect the workpiece for unusual tear outs and other defects.

Congratulations! You have completed the test run! Now your jointer is ready for production work. If you discover any issues from the tests, please refer to the troubleshooting section and maintenance section to diagnose issues and make adjustments.

# Operation

## Preparation

For safety and to achieve the best results, please take the following steps before jointing a workpiece.

### Inspect Workpiece

Only use this jointer for natural, quality wood materials. Cracked stock, board with loose knots, plywood, and other engineered wood products can break apart and cause severe kickbacks, which can lead to severe injuries and machine damages.

Do not use this jointer to cut treated lumber or anything that contains harmful chemicals. This will spread wood dust that contains such harmful chemicals.

Carefully inspect workpieces for foreign objects. Nails, staples, rock chips, and other objects embedded on the wood surface will damage the jointer. It is advised to clean a workpiece with a stiff brush to remove all dirt and foreign objects ahead of time, especially for rough sawn or reclaimed lumber. Use a metal detector to scan for metal objects as needed.

### Check Dimensions

To avoid accidental contact with the cutterhead, NEVER process stock that is:

1. Shorter than 10"
2. Thinner than 3/4", or
3. Less than 2" wide.

### Support Long Workpiece

Support long stock with rollers or other devices to avoid injuries. This also helps in creating a smooth, consistent finish.

### Check Moisture Content

Check the moisture content of workpieces. "Green wood" with moisture content over 20% will not cut properly and may jam the machine. Excessive moisture content will also cause the jointer's unpainted surface to rust. Besides, as the workpiece dries, the once-flattened surface can become fuzzy and warped again. It is recommended to allow a workpiece to dry and stabilize before it is processed.

### Warped Stock

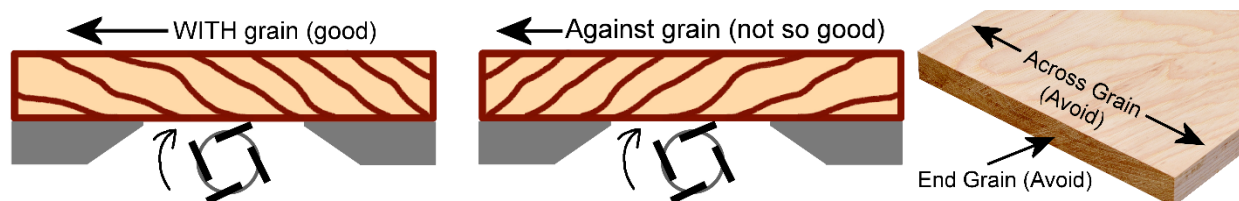
Avoid using boards with severe warping, as they can be unstable and might cause severe kickbacks when it is cut.

### Glue Deposits

Glue left on the workpiece surface can dull cutters and lower cut quality. Scrape off all glue deposits from the workpiece before jointing a workpiece.

## Inspect Wood Grain

To achieve optimal results, cut WITH the grain. Inspect the wood grain from the side of a workpiece to determine the feed direction. Avoid cutting against/across/end grain as severe kickback and chipping may occur.

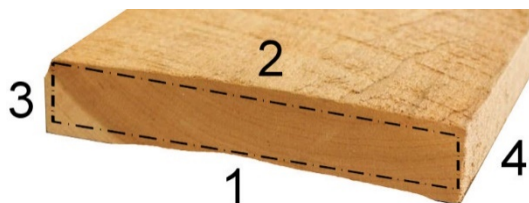


Sometimes it is impossible to cut with the grain for the entire length of a workpiece. In this case, try feeding the workpiece in opposite direction and see what works best. Reducing the depth of cut and feed rate can also help to improve the cut quality.

## Squaring Stock

Jointer is commonly used in conjunction with planer and table saw for squaring stock. Rough, warped stock is milled so it becomes flat and square. It takes four steps for squaring stock:

1. Surface Planing - The bottom face of the stock is flattened by a jointer. The concaved face should be chosen for this step.
2. Thickness Planing - The top face of the stock is flattened by a thickness planer. In this step, the workpiece can be planed down to the desired thickness.
3. Edge Jointing - The concaved edge is straightened and squared on a jointer.
4. The last edge is straightened with a rip cut on a table saw, with the jointed edge placed against the table saw fence. In this step, the workpiece can be cut to the desired width.



**Serious injury or death can result from machine kickback or accidental contact to the cutterhead. Follow these safety rules to reduce your risks for all jointing operations:**



**WARNING**

- Begin operation with the concave, or the most stable surface for jointing.
- Feed stock with a stable stance and at a steady rate.
- Use eye and ear protection devices.
- Cutterhead guard must be installed for all jointing operations.
- Keep hands at least 3" away from the cutterhead.
- Use push blocks whenever possible.



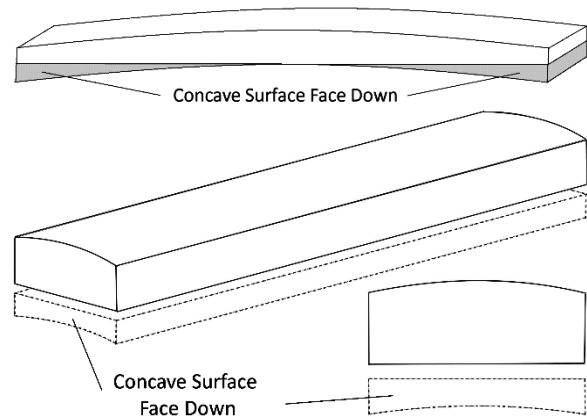
**CAUTION**

**Ensure the dust collection system is functional and use a dust mask. Inhaling harmful airborne particles can cause serious, long-term health issues.**



## Surface Planing

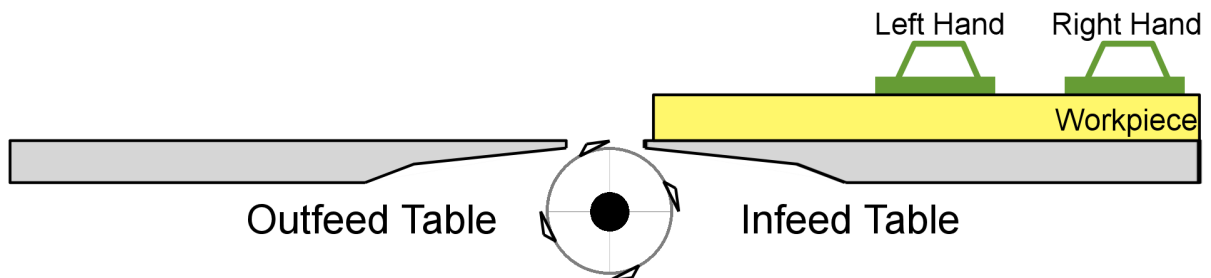
1. Inspect stock for quality issues and grain orientation before the operation. Begin surface planing with the concave face when present (see examples on the right).



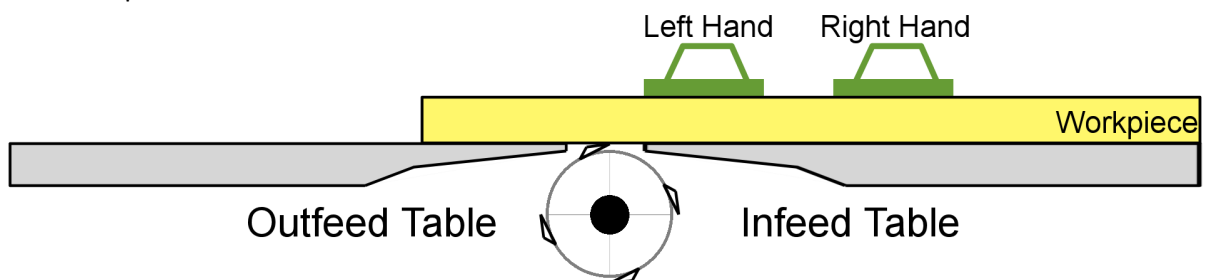
2. Adjust the depth of cut by setting the elevation of the infeed table. Woodworkers typically set the depth of cut to 1/16" or less to allow better control over the workpiece, and to reduce wastage.

If needed, this jointer is capable of removing 1/8" of materials per pass.

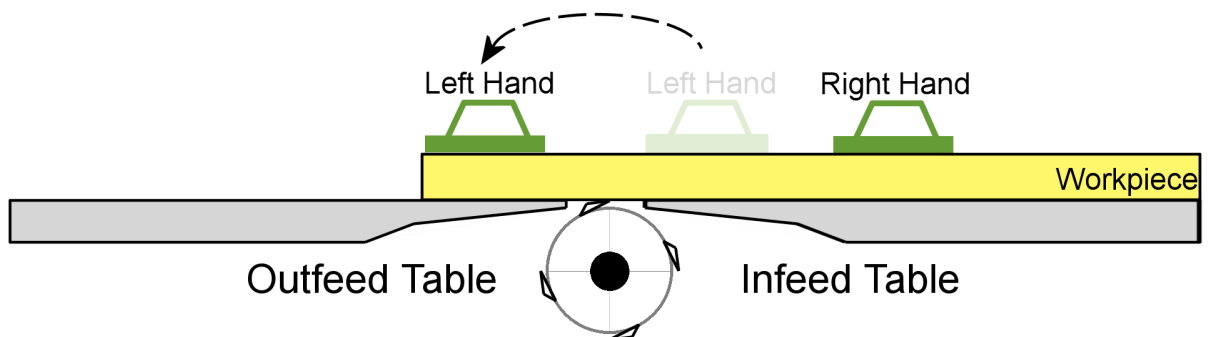
3. Set the fence to 90°.
4. Start the jointer and the dust collection system.
5. To initiate a cut, stand near the infeed table, slightly behind the cutterhead. Use the left hand to feed stock against the fence and the infeed table, and use the right hand to feed the stock from the back. Use push blocks whenever permissible.



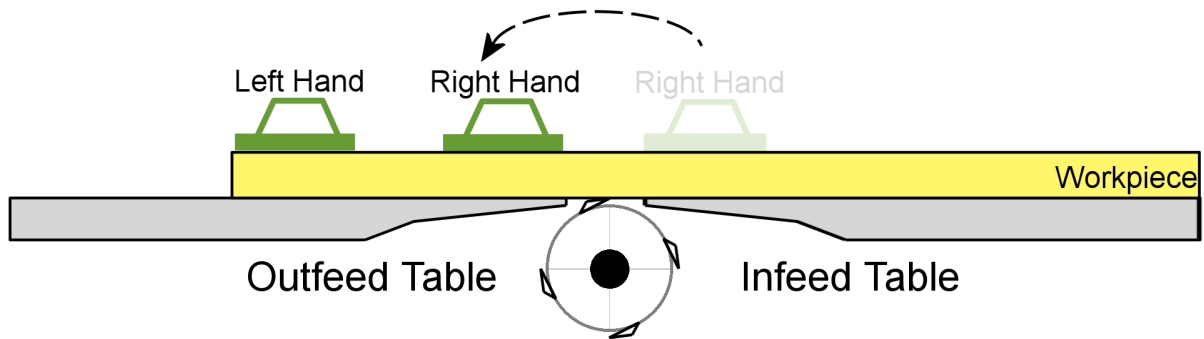
6. Feed a small section of stock across the cutterhead. Keep the stock under control but do not apply excessive pressure to bend it flat on the table.



7. Lift the left hand and move it across the cutterhead as it approaches the cutterhead to avoid accidental contact. Place left hand on the stock that sits on the outfeed table and continue to feed. Maintain control of stock with the right hand while repositioning the left hand.



8. As the right hand approaches the cutterhead, the operator should lift up the right hand and move the entire body towards the outfeed table. Place right hand on the stock that sits on the outfeed table. Use the left hand to maintain control of the stock while repositioning the right hand.



9. From this point on, continue to feed stock only on the outfeed table until the entire length of the stock is planed. Feed stock at a steady rate to produce a smooth surface with no burn marks.
10. If the stock cannot be flattened in a single pass, repeat steps 5-9 until the entire surface is cut flat.

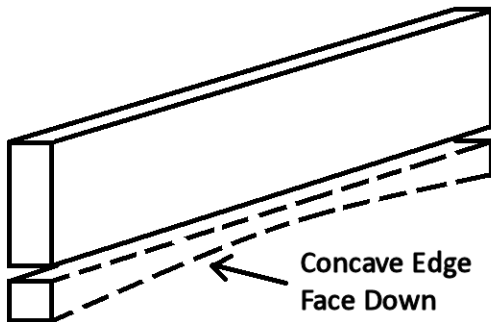
**TIP:** For new jointer users, practice stock feeding with the depth of cut set to 0". This helps to perfect the feeding technique before actual operations.

**TIP:** To ensure the entire surface is cut, some woodworkers leave pencil marks on the entire length of stock before the final passes, then verify all marks are removed after a pass.

**TIP:** For thin stock, avoid excessive downward pressure which will flatten any cup or warp as the stock pass through the cutterhead. Wrapped stock cannot be flattened if it is pressed flat and then planed. Only apply adequate pressure to maintain control of the stock when feeding.

## Edge Jointing

1. Set the fence to 90°.
2. Inspect stock for quality issues and grain orientation. Make sure the stock has a flat surface to feed against the fence. For crooked stock, begin edge jointing with the concave edge.



3. Set the depth of cut. If an edge is almost flat and squared, set the depth of cut to only remove as much materials as needed to obtain a jointed edge. This jointer can remove at most 1/8" of materials per pass.

Stock that has a rough edge may take multiple passes to joint it straight and squared. For some extreme cases, consider using a saw and a special jig to create a roughly straight edge before jointing.

4. Start the dust collection system and the jointer.
5. Place stock on the infeed table, then hold it against the fence and the table to initiate a cut.

Be extra cautious when jointing narrow stock. Use push blocks to keep hands away from the cutterhead. Position both hands and the push blocks above the cutterhead guard when feeding.



When jointing wide stock, if the entire right hand can be positioned way above the fence, hold stock against the fence with a push block to keep the left hand away from the cutterhead, and support the stock with the right hand. Be sure the right hand is securely resting on top of stock and it is away from the cutterhead at all times.



6. Feed the entire length of the stock through the cutterhead. Maintain a stable, balanced stance for the entire process.
7. For long stock, feed a section past the cutterhead, then continue to feed the remaining length while standing next to the outfeed table.
8. Repeat the process until the entire edge is jointed flat and square.

**TIP:** Adjust fence position to make use of the outboard edge of the cutterhead. This helps to average the use of the cutters.

## Beveling

Instructions and precautions for edge jointing apply to beveling. Besides:

- When cutting a bevel that is not 90°, flip the 90° fence stop block to the left, then set the fence tilt to the desired angle of cut using a protractor.
- Reduce the maximum depth of cut from 1/8" to 1/16" or less based on the width of the bevel and hardness of the workpiece.

## Rabbet Cutting

A rabbet is a groove cut along the edge of a workpiece. This jointer is capable of making rabbet cuts as deep as 1/2". Depends on the requirements and constraints of your project, a jointer, or other tools such as a table saw, router, or other hand tools, can be the best tool for your rabbeting needs. Always consider safety when choosing a tool for rabbeting.

Performing a rabbet cut with this jointer may require the cutterhead guard removed. Promptly re-install the guard after the rabbeting operation completes.

1. **Inspect stock for quality issues before the operation. The surfaces for rabbeting must be flat and squared.**

2. Set fence to 90°

3. Reposition the fence to set the width of a cut. The amount of exposed cutterhead is the width of the rabbet.

Please beware that the cutters are installed in staggered formation, and the outermost edge of the cutter is located near the edge of the table. Make test cuts to confirm the width of the cut as needed.

4. Remove the cutterhead guard as needed.
5. Start the jointer and dust collection system.
6. Place workpiece against the fence and infeed-rabbeting table. Use push blocks whenever permissible.



7. Follow steps [5-9] in "Surface Planing" for feeding stock through the jointer. Repeat the process until reaching the desired depth of the rabbet cut.

**CAUTION:** Beware that the rabbeting table is short and narrow. Take extra caution and support of the entire workpiece throughout the operation.

8. Lower the infeed table gradually to remove a portion of the material in each pass until reaching the desired depth of cut. As much as 1/8" of materials can be removed per pass.

**CAUTION:** For safety, never cut more than 1/8" per pass.

9. Disengage the infeed table depth stop when the infeed table needs to go below 1/8". This jointer can produce a rabbet that is 1/2" deep.

10. Reinstall cutterhead guard after the rabbeting operation.



**If the cutterhead guard is removed for rabbeting operation, use extreme caution when performing cuts. Reinstall the guard immediately when the operation completes.**

## Common Cutting Problems

### Snipe

Occurs when too much pressure is applied as a workpiece enters or leaves the cutterhead. Improper table settings can also introduce snipes.

To mitigate this problem, apply even feed pressure throughout the entire workpiece. Once the workpiece went past the cutterhead, downward pressure should be focused on the outfeed table only. Ensure the outfeed table is not positioned way below the cutter head.



### Chipping

Happens when cutting against the grain direction. For highly figured lumber, and areas near a knot, some amount of chipping is normal. In this case, reduce the depth of cut and feeding speed. Moistening the problematic area before jointing can sometimes mitigate the issue.

Chipping can also cause by dirty or dull cutters. If chipping happens while jointing straight grain stocks, inspect the cutter inserts and remove all resin buildups. Rotate/replace dull cutter inserts.



### Fuzzy Grain

Can happen when planing wood with high moisture content or if the cutter is dull. Sometimes it is impossible to avoid fuzzy grain due to the nature of certain wood types. To mitigate this issue, avoid using wood with high moisture content and use sharp cutters.

# Accessories

Oliver Machinery has a collection of accessories and add-ons to enhance the productivity of your jointer. Please visit our website **OLIVERMACHINERY.NET** to purchase these items.

You may also call **1-800-559-5065** or email **PARTS@OLIVERMACHINERY.NET** to place an order. We are available Monday through Friday, 9 AM - 5 PM Pacific Time.

## Cutter Inserts



Genuine four-sided indexable carbide cutter insert that will fit the cutterhead of Oliver **4225 Jointer**.

Parts number: **P-15mm 4S**

## Touchup Paint



Keeping all painted surfaces in good condition keeps your machine looks nice and prevents rusting. We have pre-mixed spray paint available in Oliver-Blue for purchase.



Using unapproved accessories may cause this machine to malfunction and resulting in serious injury and/or machine damage. Only use accessories recommended for this machine.

# Maintenance

Routine maintenance keeps your jointer in top shape. Please follow the maintenance schedule below, and use the maintenance record worksheet attached in the back of the manual to document all tasks completed. **NOTICE:** Maintenance schedule may vary for individual users due to different situations and safety requirements.



**Disconnect the machine from the power source before any maintenance work is performed. After servicing the jointer, remove all wrenches and tools before restarting the machine. Failure to comply can cause serious injury!**

## Maintenance Schedule

Interval	Task
Every day	Inspect the power cord for signs of aging and damages before starting the machine. Replace worn parts as needed.
	Remove dust buildups from the jointer table and dust collection system after use.
Every week	Inspect and clean the cutterhead. Remove any dust and resin accumulation.
Every Month	Remove dust under the table and inside the cabinet.
	Inspect/rotate/replace worn cutter inserts.
	Apply rust protectant on unpainted cast iron surfaces.
	Lightly grease the contact surface between the fence assembly and the table.
	Lightly grease the joints of the fence assembly.
Every 6 month	Check V-belt tension and replace if the belt shows signs of cracking or glazing.
	Verify infeed/outfeed tables are coplanar.

**Notice:** Motor bearings are permanently sealed and lubricated and do not require lubrication.

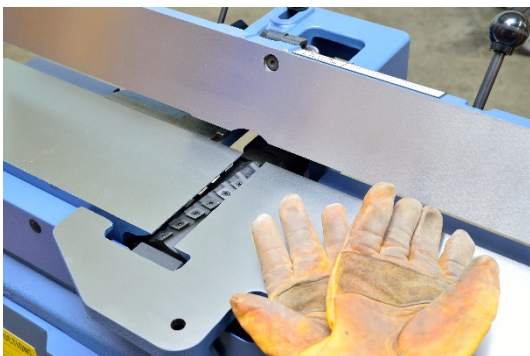


## Inspect / Adjust Jointer Tables

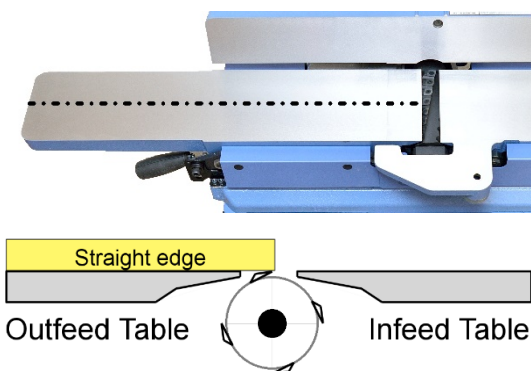
Each jointer has been inspected and calibrated in the factory and should not require adjustments initially. When a jointer consistently makes problematic cuts, perform these checks, and make adjustments as needed.

### Inspect Outfeed Table Height

1. **Disconnect the jointer from the power source!!**
2. Put on leather gloves.



3. Remove cutterhead guard.
4. Move fence assembly all the way back to expose the entire table.
5. Place a straight edge over the centerline of the outfeed table so it hangs over the cutterhead.

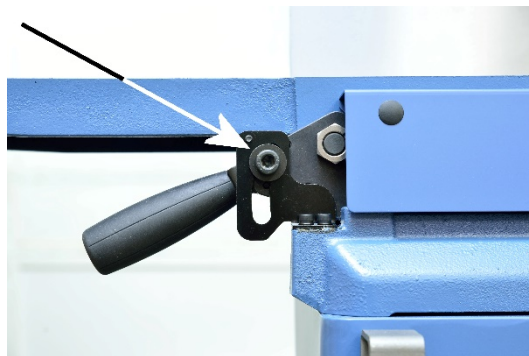


6. When the outfeed table height is properly set, cutters should be barely scraping the straight edge when the cutterhead rotates. Follow the next section to make adjustments as needed.

If the outfeed table height is set properly, jump to section “**Inspect Outfeed Table Parallelism**”.

### Adjust Outfeed Table Height

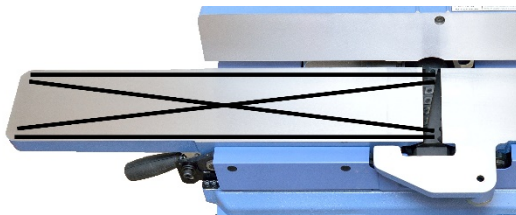
1. **Disconnect the jointer from the power source!!**
2. Loosen the cap screw that locks the outfeed table.



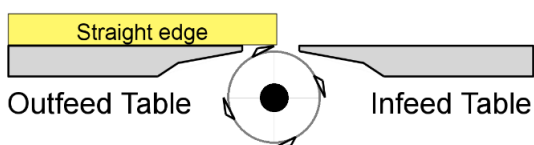
3. Adjust outfeed table height with the lever. Place a straight edge sitting on the outfeed table. When the outfeed table height is set correctly, the cutters should be barely touching the straight edge when the cutterhead rotates.
4. After the outfeed table is adjusted, tighten the locking cap screw to lock its elevation.

### Inspect Outfeed Table Parallelism

1. **Disconnect the jointer from the power source!!**
2. Place a straight edge on the outfeed table in positions as shown below:



3. Make sure the straight edge is hanging above the cutterhead:

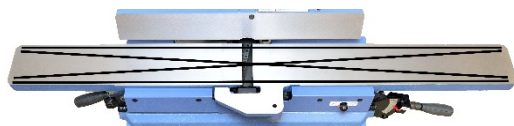


4. In each position, carefully rotate the cutterhead. When the outfeed table is in parallel with the cutterhead, cutters should be barely scraping the straight edge when the cutterhead rotates.
5. If the outfeed table and cutterhead are out of alignment, move to section “**Adjust Table Parallelism/Coplanarity**”.

If the outfeed table is in parallel with the cutterhead, proceed to the next section “**Inspect Infeed Table**”

### Inspect Infeed Table

1. **Disconnect the jointer from the power source!!**
2. **NOTICE:** Make sure the outfeed table is properly adjusted before continue.
3. Place a straight edge that splits evenly on both the infeed and the outfeed table.
4. Raise the infeed table so that it is at the same height as the outfeed table. When proper height is set, the straight edge will sit flat and flush on the infeed and the outfeed table. Rotate carbide cutter away if it contacts the straight edge.
5. Move the straight edge across the tables in positions as shown in the picture below. Rotate carbide cutter away if it gets in the way.



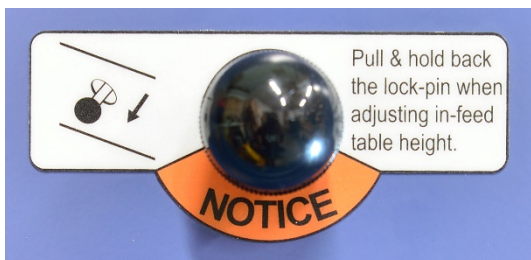
6. In each position, the straight edge should sit flat and fit flush on both infeed and outfeed tables.
7. If infeed/outfeed tables are out of alignment, move to section “**Adjust Table Parallelism/Coplanarity**”.
8. Otherwise, congratulations! The jointer tables are well calibrated for your next project!

## Adjust Table Parallelism/Coplanarity

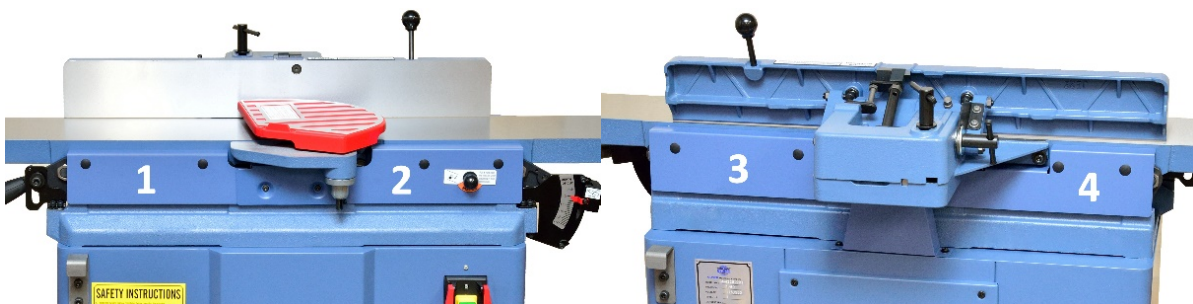
Adjusting table parallelism and coplanarity take time, precision, and patient. The entire process can take over an hour or more. Check the amount of misalignment against tolerance before making adjustments. For best results, a long and precise straight edge is required for adjustments.

Measurement	Tolerance
Outfeed Table / Cutterhead Parallelism	$\leq 0.004"$
Infeed / Outfeed Table Parallelism	$\leq 0.01"$

1. **Disconnect the jointer from the power source!!**
2. Remove the depth stop knob.

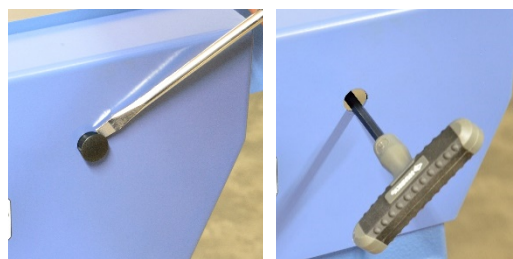


3. Remove all four metal panels that conceal the parallelogram mechanism.

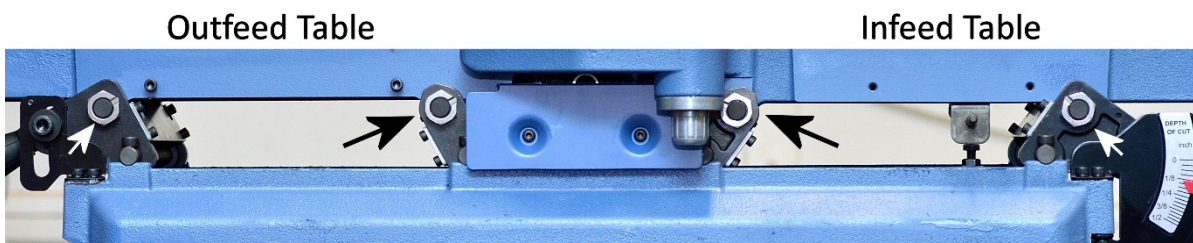


4. Each panel is secured by two cap screws, which are covered by plastic caps. Use a straight head screwdriver to remove the plastic covers on the panels. For panels 1,3, and 4, loosen the hex cap screw with a 5mm hex wrench, and the panels can be lifted.

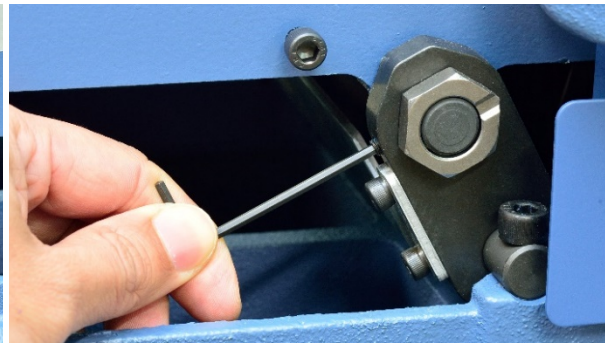
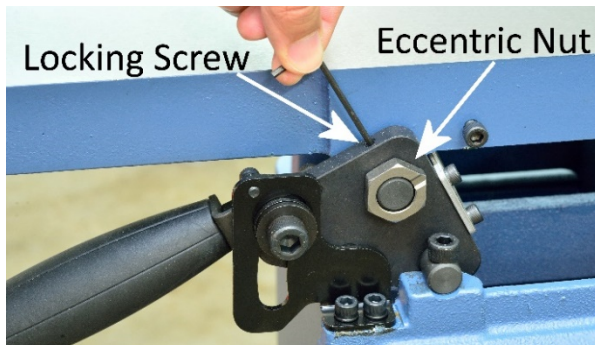
To remove panel #2, the cap screws must be removed. Use a magnetized hex wrench for this step so the screws won't fall into places that are difficult to reach.



5. This picture shows the jointer with the parallelogram mechanism exposed. Table parallelism /coplanarity can be adjusted by rotating the eccentric nuts. Each infeed/outfeed table has four eccentric nuts for coplanarity adjustments.

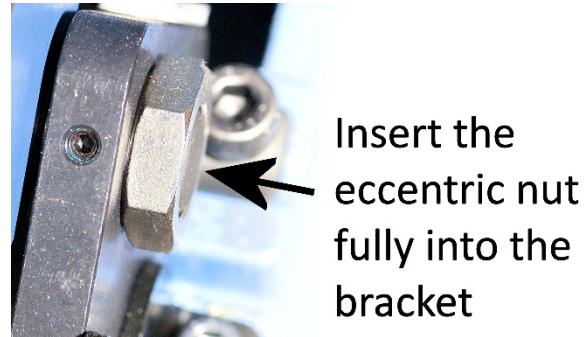


6. Begin the table alignment process with the outfeed table. Locate and loosen the set screws for locking the eccentric nuts as shown in the pictures:



7. An eccentric nut should be fairly easy to rotate once the locking set screw is loosened. Rotate the eccentric nuts to align the outfeed table and cutterhead.

**IMPORTANT:** When adjusting the eccentric nuts, make sure they are fully inserted into the holding bracket. Leaving any gaps in between may cause the table to shift sideways.



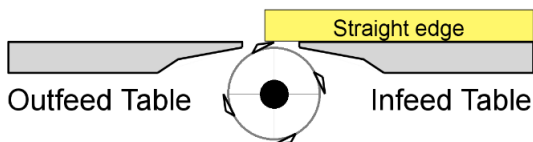
8. Repeat the steps in “**Inspect Outfeed Table Parallelism**” to verify adjustments.
9. When the outfeed table is adjusted, tighten the set screws to lock all outfeed table eccentric nuts.
10. With the outfeed table height set and locked, gently rock the fence to ensure the outfeed table is stable. If the outfeed table is rocking, eliminate all gaps between the table, eccentric nuts, and bracket.
11. Adjust the infeed table using the infeed table eccentric nuts so it is coplanar with the outfeed table. Repeat the steps in “**Inspect Infeed Table**” when making adjustments. Again, make sure the eccentric nut is fully inserted into the bracket.
12. Lock all eccentric nuts when adjustments complete.
13. With the infeed table realigned, it may need additional adjustments. See section “**Infeed Table Adjustments**” for details.
14. Reinstall all panels and cutterhead guard when all adjustments complete.



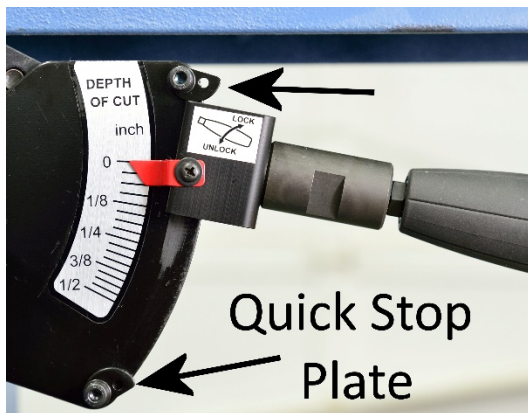
## Infeed Table Adjustments

After a full table realignment, the infeed table height should be re-zeroed, and a few components of the infeed table will need to be adjusted.

1. **Disconnect the jointer from the power source!!**
2. To re-zero infeed table height, raise the infeed table so it is approximately at the same height as the cutting arc of the cutterhead.
3. Place a straight edge over the infeed table so it hangs over the cutterhead.



4. Fine-tune the table height to set the depth of cut to zero. When properly set, cutters should be barely scraping the straight edge when the cutterhead rotates.
5. Check if the depth scale is still pointing at zero. If not, loosen the screw on the pointer and adjust its position. Also, check and adjust the quick stop plates to make sure they stop the lever at 0" and 1/2".

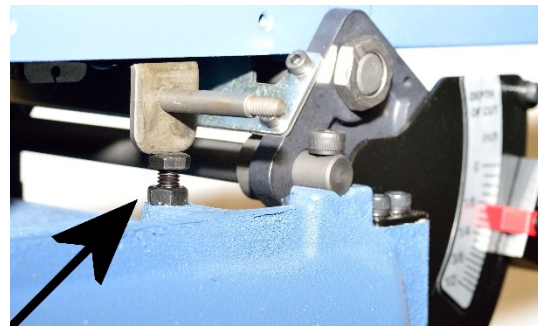


## Infeed Table Depth Stop Adjustments

1. **Disconnect the jointer from the power source!!**
2. With the depth stop knob left in place, attempt to lower the infeed table beyond 1/8". If this positive stop is set correctly, it will stop the table at 1/8".
3. If adjustment is needed, the stop nut is located behind the depth stop knob, which can be accessed when panel #2 is removed.



4. Loosen the jam nut to adjust the stop bolt.



5. Retighten the jam nut when adjustment is done.



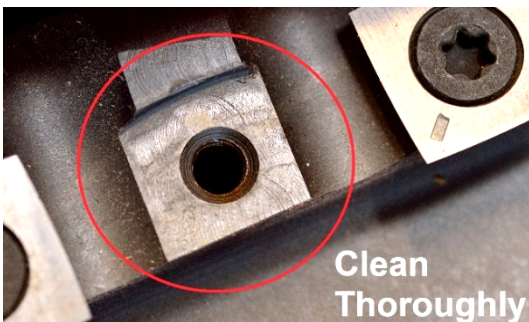
**CAUTION**

Cutter inserts are extremely sharp. Wear thick leather gloves to avoid hand injuries.

1. **Disconnect the jointer from the power source!!**
2. Put on leather gloves.
3. Remove cutterhead guard.
4. Move the fence all the way back and raise it above the table to expose the cutterhead.
5. Remove dust and resin accumulations on cutterhead and areas nearby.
6. Inspect the cutter inserts. Rotate the cutter inserts 90° clockwise when they get dulled or nicked. Use a permanent marker to mark the new edge to be used.
7. To rotate/replace a cutter insert, remove the Torx screw with a T-25 Torx bit. Turn **COUNTERCLOCKWISE** to loosen the screw.



8. With the cutter insert removed from its platform, thoroughly clean the cutter insert platform with a vacuum or compressed air.



**IMPORTANT:** Obstacles between the insert and cutterhead platform will create uneven pressure against the insert. This will lower cut quality and may cause the insert to crack.

9. Reinstall cutter insert with the marked cutting edge facing out.
10. Inspect the Torx screw. Replace any damaged screws. Lubricate screw thread with a thin coat of lightweight machine oil.

**IMPORTANT:** Do not use an excessive amount of lubrication, or the Torx screw and the cutter insert will not sit properly.

11. Using a torque wrench, re-tighten the Torx screw with 52-60 lb-inch of torque.

**IMPORTANT:** Do not overtighten the screw or the inserts may break. Do not use power tools to tighten the Torx screws. Excessive torque can strip the screws or damage the cutter inserts.

12. Reinstall the cutterhead guard and remove all tools from the table when servicing is done.

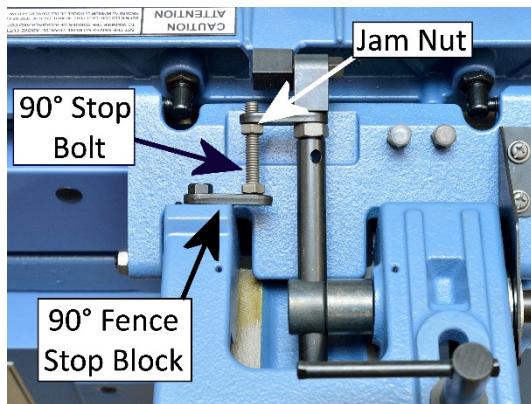


## Adjust Fence Positive Stops

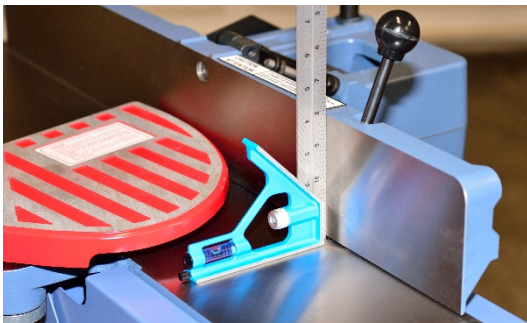
The fence assembly has three positive stops at 45°, 90°, and 135°. They were calibrated in the factory and should not require initial adjustments.

### Adjust 90° Positive Stop

1. **Disconnect the jointer from the power source!!**
2. Loosen the fence tilt lock.
3. Locate the 90° stop bolt and the 90° fence stop block.



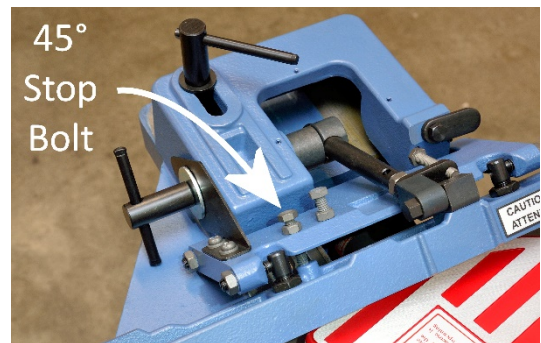
4. Flip the 90° fence stop block to the right as shown in the picture above. Make sure the stop bolt rests on the 90° fence stop block.
5. Place a square or a protractor against the fence to check if it is stopped at 90 degrees. Make adjustments as needed.



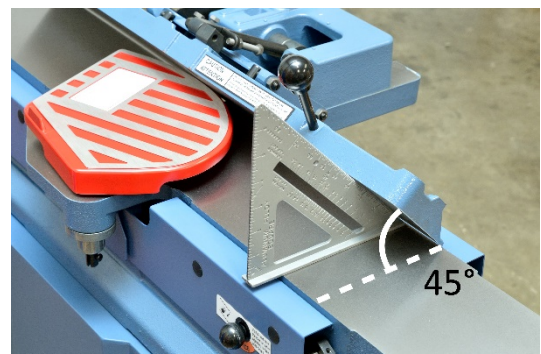
6. To make adjustments, loosen the jam nut and adjust the stop bolt so that it stops the fence at exactly 90 degrees, then hold the stop bolt in place and re-tighten the jam nut.
7. Lock the fence before starting the jointer.

### Adjust 45° Positive Stop

1. **Disconnect the jointer from the power source!!**
2. Loosen the fence tilt lock.
3. Tilt the fence forward towards the table, until it is stopped by the 45° stop.



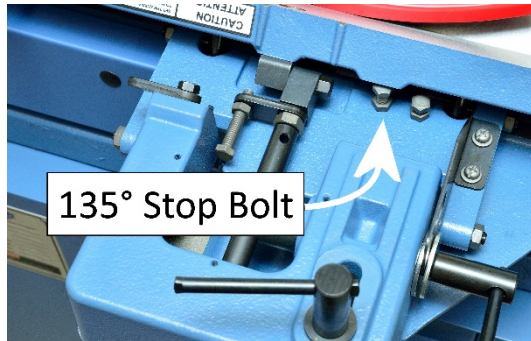
4. Place a speed square or a protractor against the fence to see if it is stopped at 45 degrees.



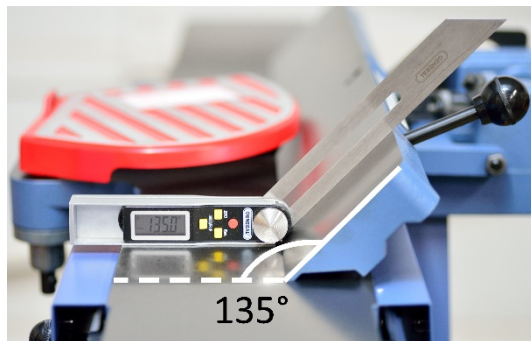
5. If adjustment is needed, loosen the jam nut of the 45° stop bolt, adjust the stop bolt so that it stops the fence at exactly 45 degrees, then hold the stop bolt in place and re-tighten the jam nut.
6. Lock the fence before starting the jointer.

### Adjust 135° Positive Stop

1. **Disconnect the jointer from the power source!!**
2. Loosen the fence tilt lock.
3. Flip the 90° fence stop block to the left, as shown in the picture above, so the fence can be tilted beyond 90°.
4. Tilt the fence backward and away from the table, until it is stopped by the 135° stop bolt.



5. Place a protractor against the fence to see if it is stopped at 135 degrees.



6. If adjustment is needed, loosen the jam nut of the 135° stop bolt, adjust the stop bolt so that it stops the fence at exactly 135 degrees, then hold the stop bolt in place and re-tighten the jam nut.
7. Lock the fence before starting the jointer.

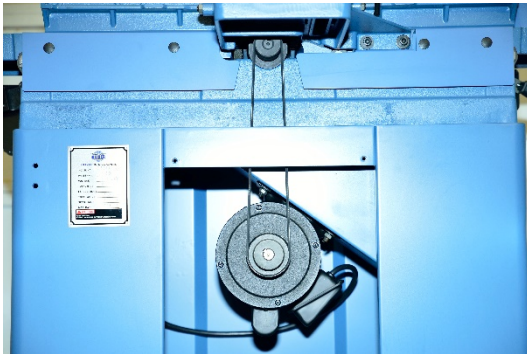
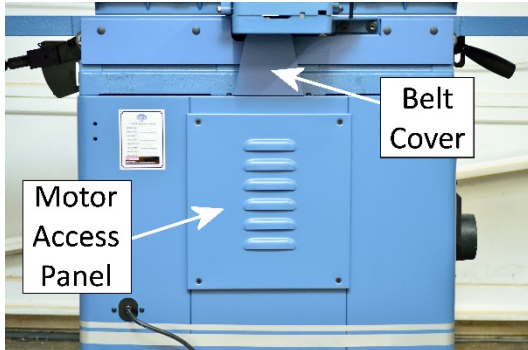
## Adjust Belt Tension



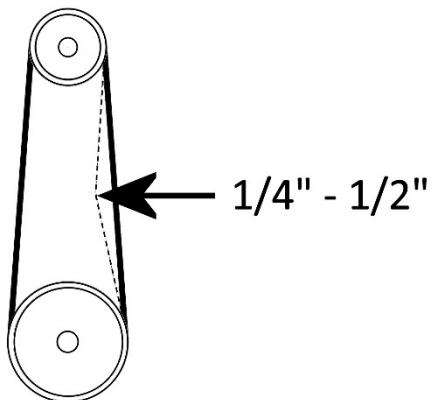
**CAUTION**

Belt and pulleys may be hot after operations. Allow components to cool before servicing.

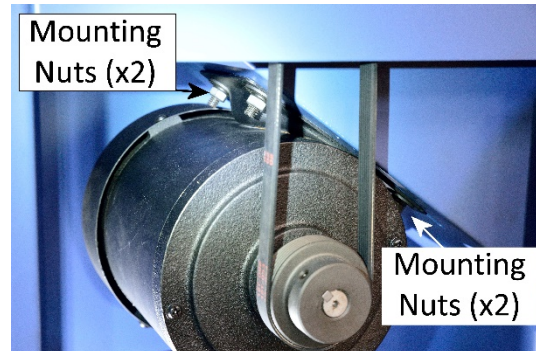
1. Disconnect the jointer from the power source!!
2. Remove the motor access panel and the belt cover.



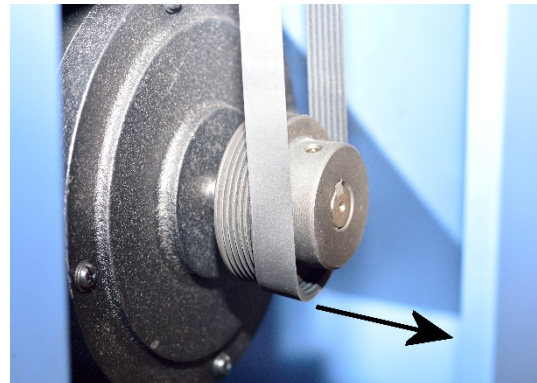
3. Apply moderate pressure on the V-belt midway between the two pulleys. Properly tensioned V-belt should deflect by about 1/4" – 1/2".



4. If V-belt tension needs to be adjusted, loosen the four motor mounting nuts. Adjust the motor height until proper belt tension is reached, then re-tighten the mounting nuts.



5. If the V-belts need to be replaced, gradually walk the belt away from the motor and eventually remove it from the pulley.



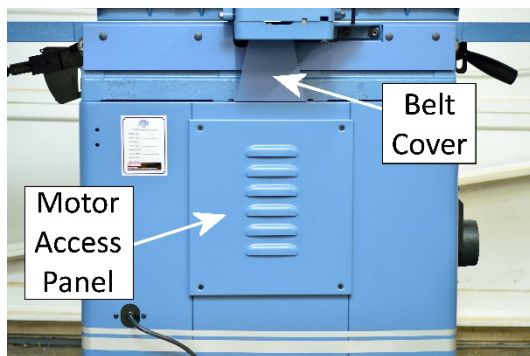
6. Install a new belt and make sure the belts sit into the grooves of pulleys. If the belt is too tight to install, adjust the motor position.
7. Adjust belt tension and re-secure the motor as needed.
8. Reinstall belt cover and motor access panel when maintenance completes.



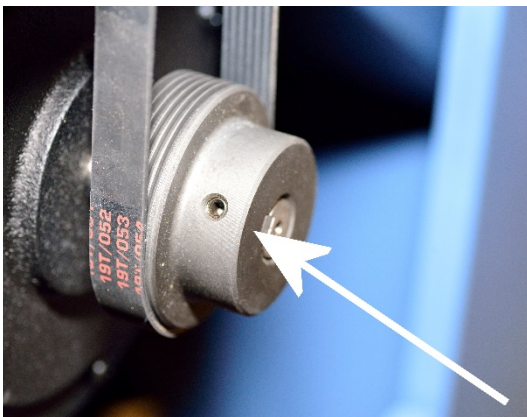
## Align Belt Pulleys

The belt pulleys were aligned in the factory and should not require further adjustments. Check pulley alignment if the motor is repositioned. Also check the pulley alignment if the belt is slipping off the pulleys, or if the belt wears prematurely.

1. **Disconnect the jointer from the power source!!**
2. Remove the motor access panel and the belt cover.



3. Use a straight edge to check the coplanarity of the belt pulleys.
4. Adjustments can be made by shifting the motor pulley. Loosen the set screw with a hex wrench, and the motor pulley can move along the motor shaft by a small amount.



5. Realign the motor pulley and the cutterhead pulley. Retighten the motor pulley locking screws when adjustment is done.
6. If the pulleys are still not coplanar, adjust the motor mount.
7. Reinstall the belt cover and motor access panel when adjustments complete.

# Troubleshooting

## Mechanical / Electrical Issues

Problem	Possible Cause	Possible Solution
<b>Machine does not start.</b>	Machine is not connected to a power source.	<ol style="list-style-type: none"> <li>1. Make sure the machine is plugged in, or the power disconnect is at the ON position.</li> <li>2. Check the electrical panel for a tripped circuit breaker or a blown fuse.</li> <li>3. Ensure all electrical connections have good contacts.</li> </ol>
	Low voltage / current.	Have an electrician check/repair the power circuit.
	Faulty switch/motor/capacitor.	Contact customer service for further assistance.
<b>Machine stopped during an operation.</b>	Machine trips circuit breaker or blows fuse.	Reconnect the circuit and see the troubleshooting steps “Machine trips circuit breaker, or blow fuses.”
<b>Machine trips circuit breaker or blows fuse.</b>	Machine is undersized for the operation.	Reduce the depth of cut and/or feed rate.
	Workpiece moisture level is too high.	Only joint wood with a moisture level below 20%.
	Machine is jammed.	Make sure the cutterhead is not jammed by woodchips. Check dust chute and clear blockages.
	Too much load on a circuit.	Make sure the power circuit is sized for this machine. If the circuit is shared, ensure it is sized to supply power for all items in the circuit.
	Motor/capacitor issue.	Contact customer service for further assistance.
<b>Machine stalls during operation.</b>	Machine is undersized for the operation.	Reduce the depth of cut. Lower feed rate.
	Dull cutters.	Rotate/replace cutter inserts.
	Belt slipping.	Clean belt and pulleys. Adjust belt tension.
	Motor/capacitor issue.	Contact customer service for further assistance.
<b>Outfeed table is stuck/difficult to adjust.</b>	Outfeed table is locked.	Loosen the locking cap screw before adjusting the outfeed table.
<b>Unable to lower infeed table below 1/8"</b>	Depth stop is engaged.	Pull infeed table depth stop knob while lowering the infeed table. <b>NOTICE:</b> Only set depth of cut greater than 1/8" for rabbeting operations.

Problem	Possible Cause	Possible Solution
<b>Table is loose.</b>	There is play in the parallelogram mechanism.	Check the parallelogram mechanism and eliminate any gaps between the eccentric nut, bracket, and shafts. Ensure all eccentric nuts are locked by the set screws, and each set screw is locked by blue Loctite.
<b>Workpiece is caught on the edge of the outfeed table.</b>	Outfeed table is set too high.	Adjust the outfeed table to ensure it is flush with the cutting arc of the cutterhead.
<b>Uneven wear on cutter inserts</b>	One section of cutterhead is used more than another.	Occasionally adjust fence's depth setting so the entire cutterhead is utilized.
<b>Machine vibrates excessively or makes unexpected noise.</b>	Damaged cutter inserts.	Replace cutter inserts.
	Machine stands on an uneven floor.	Reposition machine on a flat, level surface. Adjust leveling feet.
	V-belt worn, slipping, or hitting belt cover.	Clean belt and pulleys. Adjust belt tension. Replace V-belt if it shows signs of aging.
	Improper motor mounting.	Check and adjust motor mounting.
	Loose components.	Tighten fasteners of the component.
	Worn bearings.	Contact customer service for assistance.

### Operation / Quality-Related Issues

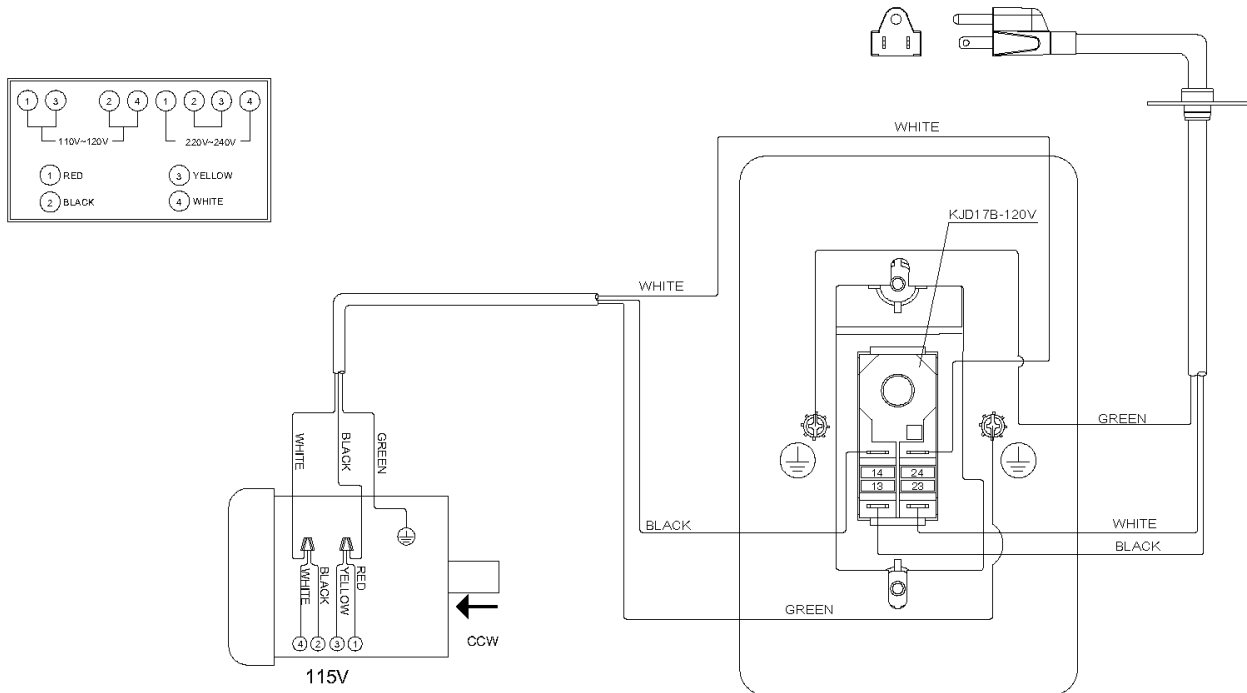
Problem	Possible Cause	Possible Solution
<b>Workpiece came out twisted.</b>	Improper feeding.	Use the outfeed table as the reference point for feeding. Apply even pressure and feed rate on the entire workpiece.
	Outfeed table is not in parallel with the cutterhead.	Ensure the outfeed table is in parallel with the cutterhead, and the outfeed/infeed tables are coplanar.
	More passes are needed.	Significantly twisted boards take multiple passes to flatten.
<b>Excessive snipe</b>	Outfeed table too low.	Adjust the outfeed table to ensure it is flush with the cutting arc of the cutterhead.
	Too much downward pressure when feeding the end of the workpiece.	Once the workpiece reaches the outfeed table, use the outfeed table as the reference. Reduce feeding pressure apply to the workpiece that is still on the infeed table.



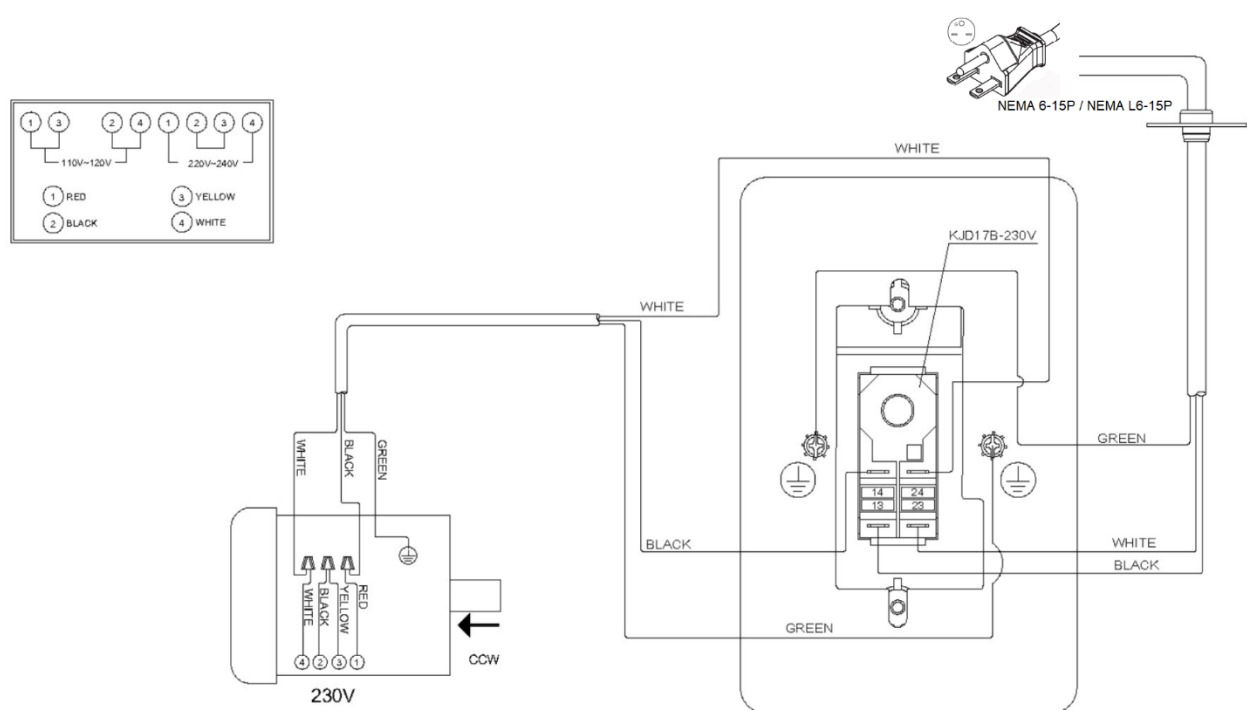
Problem	Possible Cause	Possible Solution
<b>Chipping</b>	Too much material was removed in one pass.	Reduce the feed rate or the depth of cut.
	Planing across/end grain.	Do not use a jointer to cut across/end grain.
	Damaged cutter.	Rotate/replace cutter insert.
	Cutting against grain; or knots.	Avoid processing workpieces with knots. Cut WITH grain whenever possible. When jointing a workpiece with complicated grain pattern, reduce the depth of cut. Sometimes moistening problematic areas can reduce chipping.
<b>Fuzzy looking finish.</b>	Wood moisture content is too high.	Only process wood with less than 20% moisture content.
	Dull cutter.	Rotate/replace cutter insert.
	Some wood types tend to have fuzzy grain.	Adjust feed rate or the depth of cut. Use sharp cutters.
<b>Glossy looking finish.</b>	Dull cutter.	Rotate/replace cutter insert.
	Cutting depth too shallow.	Increase depth of cut.
<b>Long lines or ridges running along the length of the board.</b>	Chipped cutter.	Rotate/replace cutter insert.
<b>Finished stock has uneven front-to-back thickness.</b>	Cutterhead is not flush with the outfeed table.	Adjust the outfeed table to ensure it is flush with the cutting arc of the cutterhead.
	Inconsistent feeding pressure applied to the workpiece.	Apply even feeding pressure on the workpiece. Keep feed rate consistent.
<b>Finished stock is concave/convex in the middle.</b>	Infeed/outfeed tables are not coplanar.	Ensure the outfeed table is parallel with the cutterhead, and the outfeed/infeed tables are coplanar.

# Wiring Diagram

## 115V Wiring

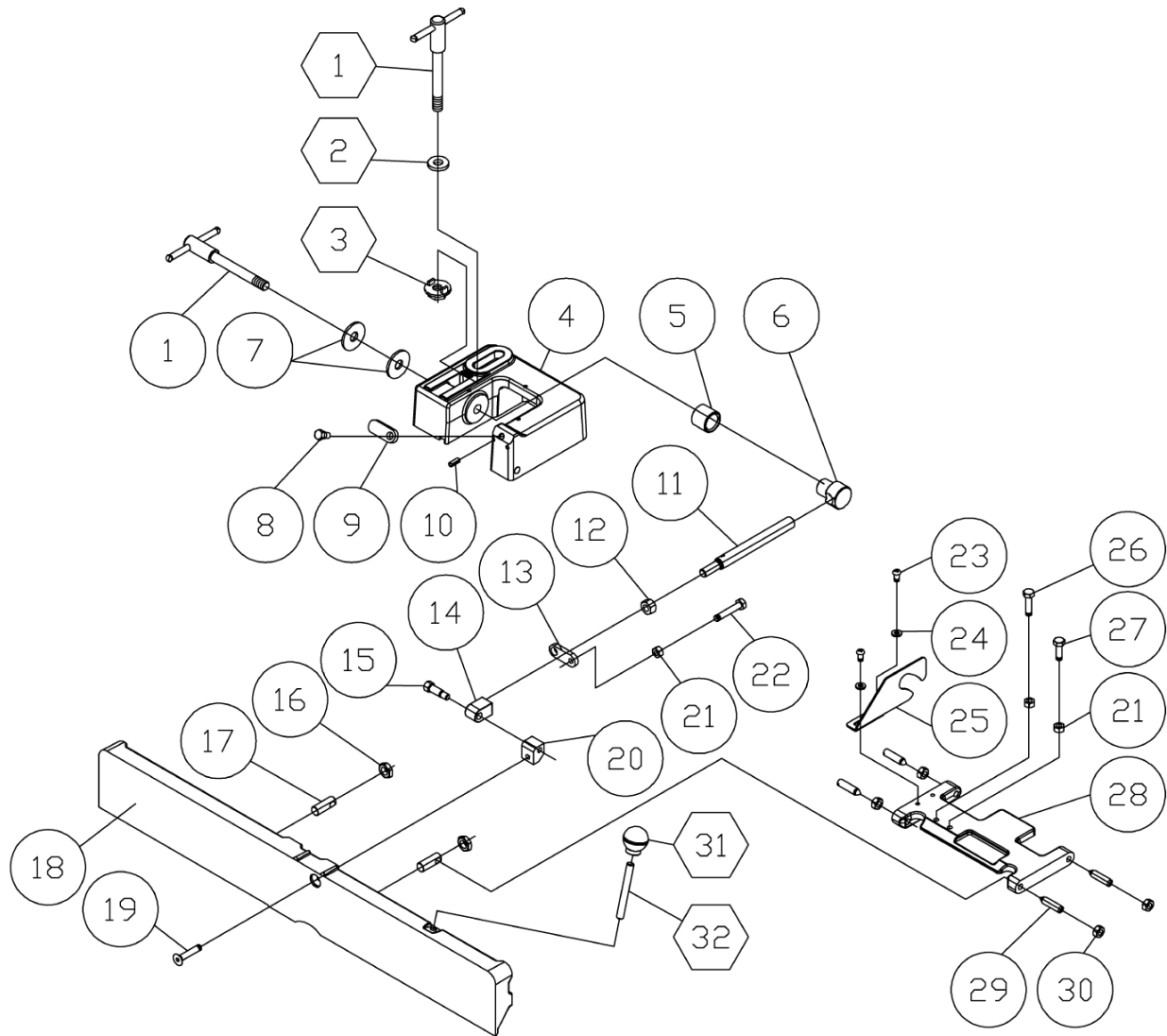


## 230V Wiring

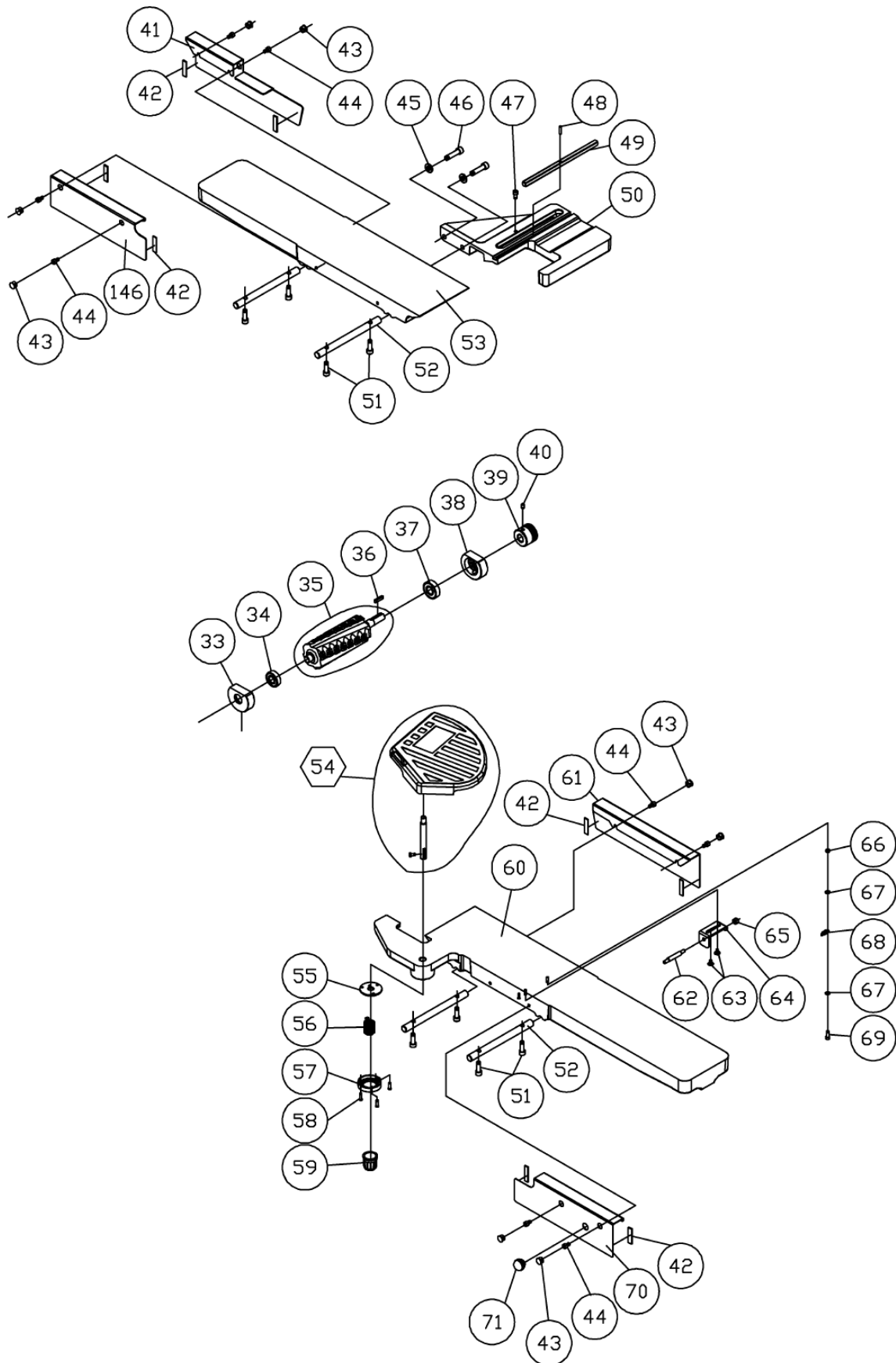


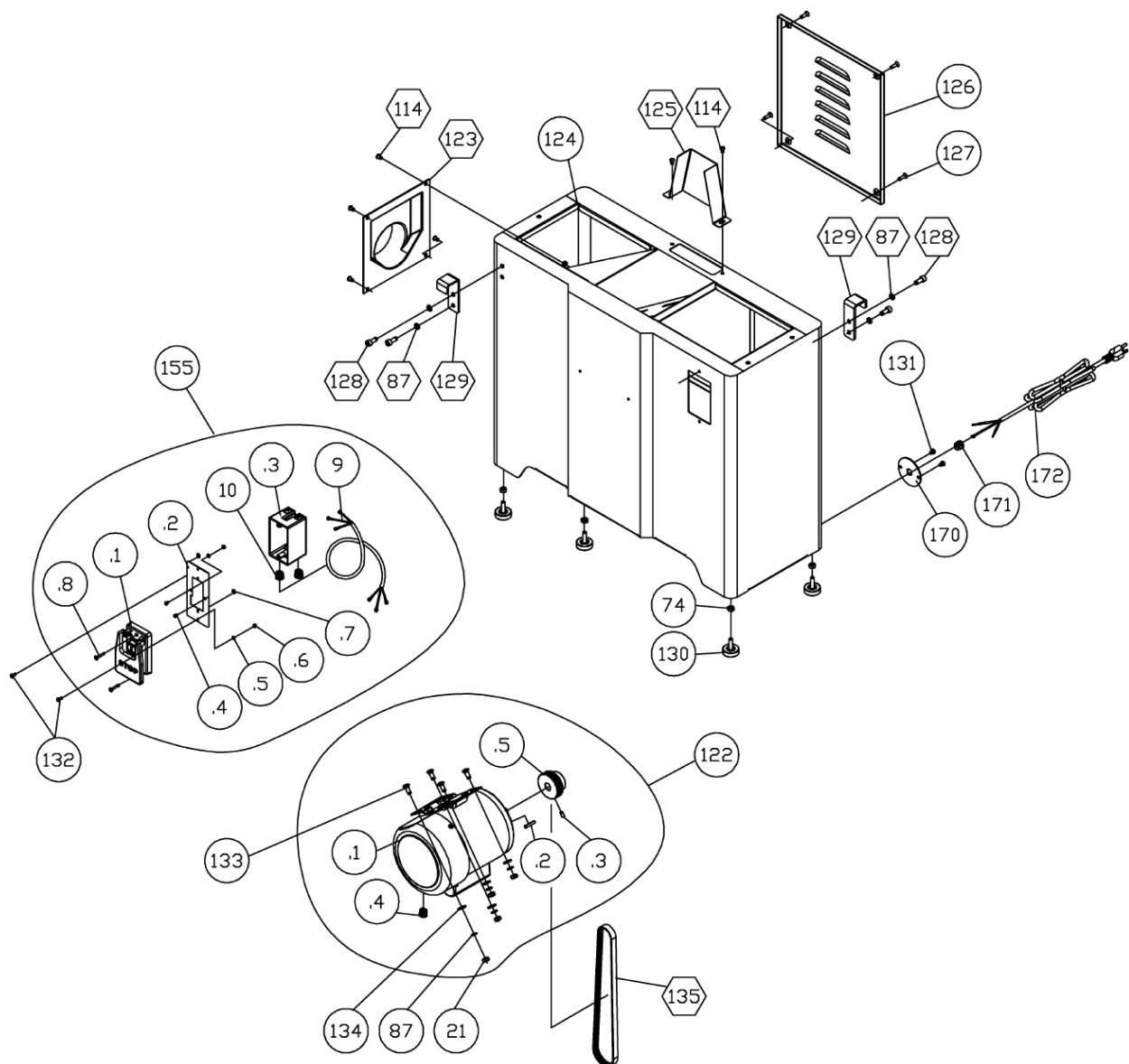
# Parts List

## Fence Assembly

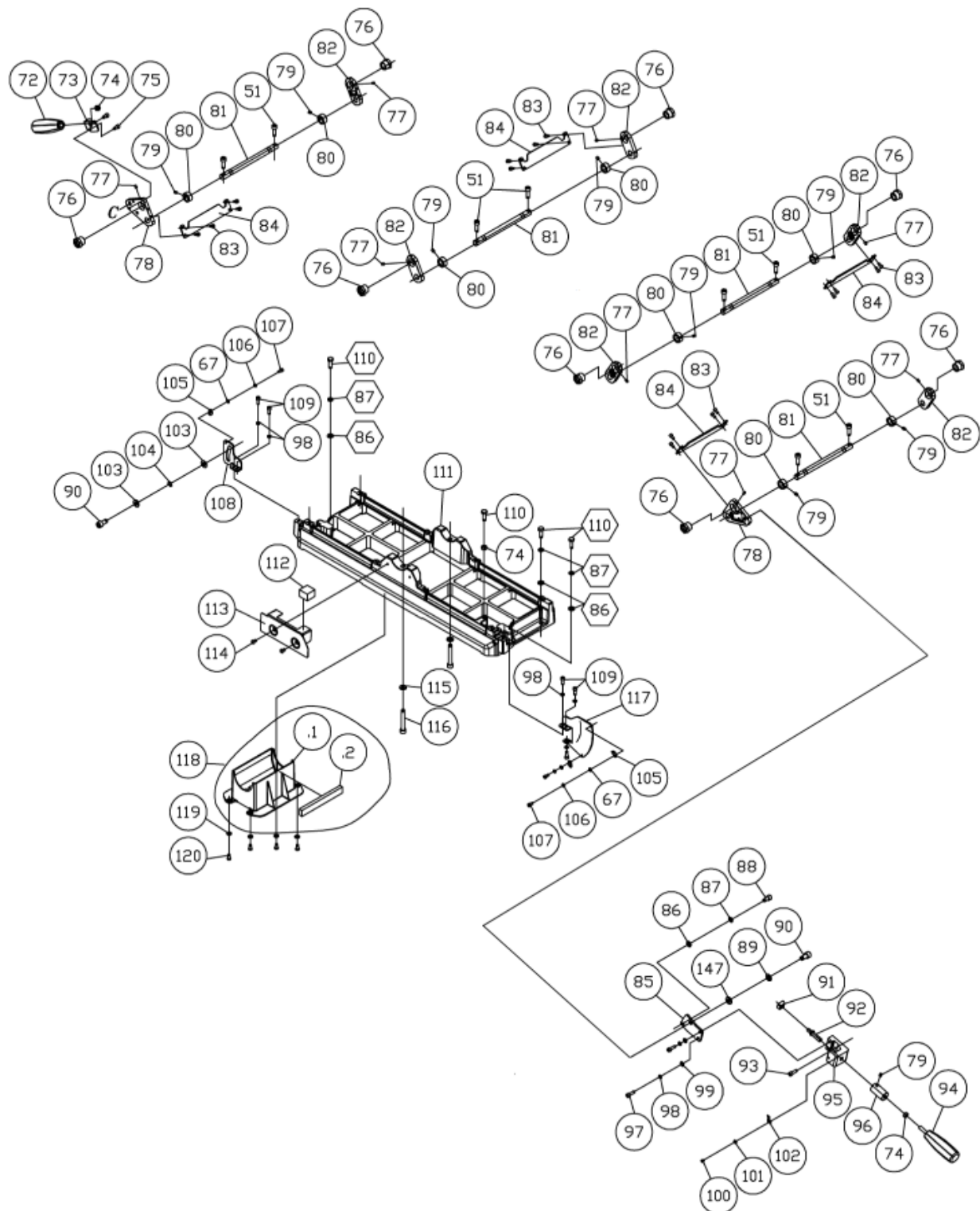


## Table and Cutterhead Assembly





## Base Assembly





Key	Part Number	Descriptions	Specifications	QTY
1	360034-901	Lock Bolt		2
2	006003-091	Flat Washer	13*28*3.0t	1
3	380209-901	Nut		1
4	051301-000	Fence Carriage		1
5	130055-903	Spacer		1
6	130009-903	Fence Bracket		1
7	006003-097	Flat Washer	13.5*40*3.0t	2
8	290003-901	Screw		1
9	170047-901	Stop Block		1
10	011002-103	Spring Pin	4*12	2
11	360068-901	Fence Link		1
12	009008-300	Hex Nut	7/16"-14NC	1
13	170598-901	Positioning Bracket		1
14	130007-903	Fence Block		1
15	290004-901	Screw		1
16	009010-100	Hex Nut	1/2"-20NF	2
17	360676-901	Bolt		2
18	051300-000	Fence		1
19	003602-702	Flat Head Cap Screw	5/16"-18NC*1-5/8"	1
20	130008-903	Fence Block		1
21	009005-300	Hex Nut	5/16"-18NC	7
22	003003-708	Hex Screw	5/16"-18NC*1-3/4"	1
23	003301-701	Phillips HD Screw	1/4"-20NC*1/2"	2
24	006003-023	Flat Washer	6.3*13*2t	2
25	170048-901	Positioning Plate		1
26	003003-706	Hex Screw	5/16"-18NC*1-1/4"	1
27	003003-705	Hex Screw	5/16"-18NC*1"	1
28	051303-000	Fence Swivel Bracket		1
29	230015-901	Bolt		4
30	009022-300	Hex Nut	3/8"-16NC	4
31	250372-615	Knob		1
32	360038-901	Knob Stud		1
33	050018-901	Bearing Housing		1
34	030206-002	Ball Bearing	6202-2NSE	1
35	JE48-12	Cutter Head Assembly		1
36	012003-009	Key	5*5*25	1
37	030207-002	Ball Bearing	6203-2NSE	1
38	050019-901	Bearing Housing		1
39	381427-902	Cutter Head Pulley		1
40	001902-101	Set Lock Screw	M6*1.0P*10	1

Key	Part Number	Descriptions	Specifications	QTY
41	174794-000	Rear Cover (Left)		1
42	200024-615	Foam Pad		8
43	042505-000	Plug	HP-13	8
44	000103-102	Cap Screw	M6*1.0P*10	8
45	006001-163	Flat Washer	8.5*19*3t	2
46	000104-110	Cap Screw	M8*1.25P*30	2
47	003103-102	Cap Screw	1/4"-20NC*1/2"	1
48	011002-105	Spring Pin	4*20	1
49	380080-000	Alignment Key		1
50	051445-000	Fence Slide Bracket		1
51	000104-108	Cap Screw	M8*1.25P*25	16
52	361373-902	Table Shaft		4
53	051443-000	Outfeed Table		1
54	920155-000	Cutter Head Guard Assembly		1
55	170045-901	Spring Lock Plate		1
56	280009-000	Spring		1
57	110004-000	Spring Lock Plate Cap		1
58	003305-206	Phillips HD Screw	5/32"-32NC*5/8"	3
59	110024-000	Spring Knob		1
60	051442-000	Infeed Table		1
61	174793-000	Rear Cover (Right)		1
62	361327-902	Round Standoff		1
63	290028-901	Shoulder Screw		2
64	174603-902	Positioning Plate		1
65	009103-100	Lock Nut	1/4"-20NC	1
66	008004-100	Hex Nut	M5*0.8P	1
67	006001-009	Flat Washer	5.2*10*1.0t	5
68	280082-000	Torsion Spring		1
69	000102-116	Cap Screw	M5*0.8P*15	1
70	174796-000	Front Cover (Right)		1
71	230156-615	Knob	22*1/4"-20NC	1
72	230141-615	Fence Handle		1
73	174786-904	Handle Bracket		1
74	008006-100	Hex Nut	M8*1.25P	7
75	000102-104	Cap Screw	M5*0.8P*12	2
76	130350-903	Adjusting Bushing		8
77	001901-102	Set Lock Screw	M5*0.8P*8	8
78	130351-903	Bushing Plate		2
79	001902-102	Set Lock Screw	M6*1.0P*8	9
80	361241-902	Bushing		8

Key	Part Number	Descriptions	Specifications	QTY
81	361374-902	Shaft		4
82	130352-903	Bushing Plate		6
83	002603-101	Cap Lock Screw	M5*0.8P*10	16
84	174790-000	Plate		4
85	174784-904	Positioning Plate		1
86	006001-049	Flat Washer	8.5*16*2.0t	4
87	006305-100	Spring Washer	8.2*13.7	12
88	000104-104	Cap Screw	M8*1.25P*16	1
89	006307-100	Spring Washer	10.2*18.5	1
90	000105-101	Cap Screw	M10*1.5P*20	2
91	130393-903	Wedged Block		1
92	361370-902	Shaft		1
93	002602-101	Cap Lock Screw	M6*1.0P*12	1
94	230191-000	Fence Handle		1
95	310548-911	Positioning Bracket		1
96	381428-902	Bushing		1
97	000103-108	Cap Screw	M6*1.0P*25	2
98	006303-100	Spring Washer	6.5*10.5	7
99	006001-022	Flat Washer	6.3*13*1.0t	2
100	000302-101	Phillips HD Screw	M4*0.7P*6	1
101	006001-001	Flat Washer	4.3*10*1.0t	1
102	174782-156	Scale Pointer		1
103	006003-080	Flat Washer	10.5*23*3	2
104	006703-100	Wavy Washer	WW-10	1
105	174785-904	Positioning Plate		3
106	006302-100	Spring Washer	5.1*9.3	3
107	000102-103	Cap Screw	M5*0.8P*10	3
108	174787-904	Outfeed Table Lock Plate		1
109	000103-105	Cap Screw	M6*1.0P*15	5
110	000003-105	Hex Screw	M8*1.25P*25	4
111	051444-000	Base		1
112	200105-615	Sponge	30*30*22	1
113	174797-000	Cutter Head Front Cover		1
114	000801-101	Flat Head Cap Screw	M6*1.0P*10	8
115	006306-100	Spring Washer	9.8*17.8	2
116	003111-302	Cap Screw	3/8"-24NF*2-1/2"	2
117	174783-904	Infeed Table Lock Plate		1
118	924851-000	Dust Cover Assembly	6"	1
118.1	251363-615	Dust Cover		1
118.2	200109-615	Dust Cover Sponge	155*10*20mm	1
119	006002-032	Flat Washer	6.6*13*1.0t	4
120	000304-203	Phillips HD Screw	M6*1.0P*12	4

Key	Part Number	Descriptions	Specifications	QTY
122.1	602061-000	Motor	1HP 115/230V 60HZ 1PH 2P 12A/6A	1
	496202-000	Starting Capacitor	300MFD/125VAC(LAI)(40*90)	1
122.2	012202-002	Key	5*5*30	1
122.3	001902-105	Set Lock Screw	M6*1.0P*12	1
122.4	020004-000	Strain Relief R Type	SB8R-1	1
122.5	381429-902	Motor Pulley		1
123	250036-615	Dust Port		1
124	174791-000	Cabinet Stand		1
125	174795-000	Belt Guard		1
126	170445-000	Rear Access Panel		1
127	000403-104	Flat Head Screw	M6*1.0P*20	4
128	000104-106	Cap Screw	M8*1.25P*20	4
129	174695-902	Lifting Hook		2
130	230049-000	Foot		4
131	000304-101	Phillips HD Screw	M6*1.0P*8	2
132	000303-103	Phillips HD Screw	M5*0.8P*10	2
133	003801-202	Carriage Bolt	5/16"-18NC*3/4"	4
134	006001-053	Flat Washer	8.5*19*2.0t	4
135	014367-000	V-Belt	320J-6	1
136	250035-629	Push Block		2
137	P-15mm 4S	Inserts Sold in Packs of 10	15*15*2.5t	28
137	038201-101	Torx Screws	#10-32UNF*1/2"	28
146	174792-000	Front Cover (Left)		1
147	006001-069	Flat Washer	10*20*3.0t	1
155.1	JE0111-001	115V Magnetic Switch Assembly	KJD17B-120V-S	1
155.1	JE0110-001	230V Magnetic Switch Assembly	KJD17B-230V-S	1
155.2	174365-902	Switch Plate		1
155.3	250480-615	Switch Box		1
155.4	000302-101	Phillips Head Screw	M4*0.7P*6	2
155.5	006501-100	Toothed Washer	4.3*8.5(BW-4)	2
155.6	008002-200	Hex Nut	M4*0.7P	2
155.7	570695-000	Ground Sign		2
155.8	000302-209	Phillips Head Screw	M4*0.7P*25	2
155.9	473003-005	CSA Cable	SJT 14AWG*3C*850mm	1
155.1	020003-000	Strain Relief	SB7R-3	3
170	174239-904	Plate	(M6)	1
171	020003-000	Strain Relief	SB7R-3	3
172	453011-014	Cable w/Molded Plug	SJT 14AWG*3C*2600mm	1

**Spare Parts**

Part Number	Descriptions	Specifications	QTY
P-15mm 4S	Insert	15*15*2.5t	5
038201-101	Torx Screw	#10-32UNF*1/2"	10

**Tools for Assembly**

Part Number	Descriptions	Specifications	QTY
040710-000	Torx Screwdriver	T-25	2
Local Purchase	Hex Wrench	3mm	1
Local Purchase	Hex Wrench	6mm	1
Local Purchase	Open End Wrench	8mm/10mm	1
Local Purchase	Open End Wrench	11mm/13mm	1

# Maintenance Record

Date	Task	Operator



## This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

# Warranty and Service

Oliver Machinery makes every effort to assure that its equipment meets the highest possible standards of quality and durability. All products sold by Oliver Machinery are warranted to the original customer to be free from defects for a period of two (2) years on all parts excluding electronics and motors which are warranted for one (1) year from the date of shipment. Oliver Machinery's obligation under this warranty shall be exclusively limited to repairing or replacing products or parts or components, at its sole option, determined by Oliver Machinery to be defective. Oliver Machinery shall not be required to provide other form of indemnity or compensation including but not limited to compensatory damages.

This warranty does not apply to defects due to direct or indirect misuse, abuse, negligence, accidents, unauthorized repairs, alternation outside our facilities, lack of maintenance, acts of nature, or items that would normally be consumed or require replacement due to normal wear and tear.

## **OTHER TERMS**

To obtain and exercise the warranty right, please call 800-559-5065 or fill out warranty request form online at [www.olivermachinery.net](http://www.olivermachinery.net).

Warranty parts are shipped via Parcel or Ground. Additional charges will occur and charge to customers if express shipping is required.

## **DISCLAIMER**

Under no circumstances shall Oliver Machinery be liable for death, personal or property injury, or damages arising from the use of its products.

Oliver Machinery reserves the right to make changes without prior notice to its products to improve function or performance or design.

## **FOR MORE INFORMATION**

If you need assistance or have questions beyond what is covered in the scope of this warranty information, please call 800-559-5065 or email us at [info@olivermachinery.net](mailto:info@olivermachinery.net).

# Appendix

## US Standard – Metric Conversion Chart

Fractions	Decimal In.	Millimeters
<b>1/64</b>	.0156	.396
<b>1/32</b>	.0312	.793
<b>3/64</b>	.0469	1.190
<b>1/16</b>	.0625	1.587
<b>5/64</b>	.0781	1.984
<b>3/32</b>	.0937	2.381
<b>7/64</b>	.1094	2.778
<b>1/8</b>	.125	3.175
<b>9/64</b>	.1406	3.571
<b>5/32</b>	.1562	3.968
<b>11/64</b>	.1719	4.365
<b>3/16</b>	.1875	4.762
<b>13/64</b>	.2031	5.159
<b>7/32</b>	.2187	5.556
<b>15/64</b>	.2344	5.953
<b>1/4</b>	.25	6.350
<b>17/64</b>	.2656	6.746
<b>9/32</b>	.2812	7.143
<b>19/64</b>	.2969	7.540
<b>5/16</b>	.3125	7.937
<b>21/64</b>	.3281	8.334
<b>11/32</b>	.3437	8.731
<b>23/64</b>	.3594	9.128
<b>3/8</b>	.375	9.525
<b>25/64</b>	.3906	9.921
<b>13/32</b>	.4062	10.318
<b>27/64</b>	.4219	10.715
<b>7/16</b>	.4375	11.112
<b>29/64</b>	.4531	11.509
<b>15/32</b>	.4687	11.906
<b>31/64</b>	.4844	12.303
<b>1/2</b>	.5	12.700

Fractions	Decimals In.	Millimeters
<b>33/64</b>	.5156	13.096
<b>17/32</b>	.5312	13.493
<b>35/64</b>	.5469	13.890
<b>9/16</b>	.5625	14.287
<b>37/64</b>	.5781	14.684
<b>19/32</b>	.5937	15.081
<b>39/64</b>	.6094	15.478
<b>5/8</b>	.625	15.875
<b>41/64</b>	.6406	16.271
<b>21/32</b>	.6562	16.668
<b>43/64</b>	.6719	17.065
<b>11/16</b>	.6875	17.462
<b>45/64</b>	.7031	17.859
<b>23/32</b>	.7187	18.256
<b>47/64</b>	.7344	18.653
<b>3/4</b>	.75	19.050
<b>49/64</b>	.7656	19.446
<b>25/32</b>	.7812	19.843
<b>51/64</b>	.7969	20.240
<b>13/16</b>	.8125	20.637
<b>53/64</b>	.8281	21.034
<b>27/32</b>	.8437	21.431
<b>55/64</b>	.8594	21.828
<b>7/8</b>	.875	22.225
<b>57/64</b>	.8906	22.621
<b>29/32</b>	.9062	23.018
<b>59/64</b>	.9219	23.415
<b>15/16</b>	.9375	23.812
<b>61/64</b>	.9531	24.209
<b>31/32</b>	.9687	24.606
<b>63/64</b>	.9844	25.003
<b>1.0</b>	1.	25.400



Oliver Machinery is always adding new Industrial Woodworking products to the line.

For complete, up-to-date product information, visit us online at:

[WWW.OLIVERMACHINERY.NET](http://WWW.OLIVERMACHINERY.NET)

or call toll free 1-800-559-5065

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