



15" Benchtop Planer Machine

BBPL15

User's Manual



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V1.0-2026

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This document specifies the mandatory safety requirements governing the installation, operation, maintenance, and servicing of this equipment. It shall be retained for reference and made readily accessible to all authorized personnel.

Failure to read, comprehend, and follow the instructions provided in this document may result in fire, serious bodily injury, amputation, electrical shock, or death.

The equipment owner bears full responsibility for ensuring safe operation. This responsibility includes, but is not limited to, proper installation in a compliant environment; verification of operator competency and training; implementation of routine inspection and maintenance programs; ensuring availability and understanding of this documentation; maintaining the correct selection and condition of cutting, sanding, or grinding accessories; confirming the functionality of all safety devices; and enforcing the use of appropriate personal protective equipment.

The manufacturer disclaims all responsibility for injury, loss, or damage arising from negligence, insufficient training, unauthorized modification, or improper use of the equipment.

Exposure to dust produced during power sanding, sawing, grinding, drilling, or similar construction activities may include substances recognized as carcinogenic or as causing reproductive harm. Notable examples of such hazardous materials include:

- Lead from lead-containing coatings and paints
- Crystalline silica from concrete, bricks, cement, and other masonry materials
- Arsenic and chromium from chemically treated lumber

The level of exposure risk is directly related to the frequency and duration of the activity. To reduce health hazards, perform tasks in a well-ventilated area and employ suitable respiratory protection specifically rated to filter fine particulate matter.



Introduction

We take great pride in introducing our model BBPL15 benchtop planer, which is a distinguished addition to the expanding Busy Bee Tools family of exceptional metalworking machinery. Adhering to the comprehensive guidelines outlined in this manual will ensure years of reliable and enjoyable performance in keeping with Busy Bee Tools' unwavering commitment to customer satisfaction.

We are delighted to provide you with this manual for the BBPL15. It has been meticulously crafted to assist you in the assembly process, ensure safety compliance, and cover essential operational procedures. Our goal is to deliver comprehensive documentation possible to facilitate your experience.

The specifications, drawings, and photographs featured in this manual accurately depict the BBPL15 as it was configured when this manual was produced. Nevertheless, adjustments and enhancements may be implemented at any time, with no obligation on Busy Bee Tools' part. In keeping with Busy Bee Tools' continuous improvement policy and to enhance your convenience, we maintain an up-to-date repository of Busy Bee Tools manuals on our website at www.busybeetools.com. Any updates or modifications to your machine will be promptly reflected in these manuals. We encourage you to visit our website regularly to access the latest revisions to this manual and to stay informed about your equipment's optimal operation. Your satisfaction and safety are our top priorities, and we are committed to ensuring that your experience with the BBPL15 planer is exceptional.

Should you require additional assistance or have further questions, please do not hesitate to contact our dedicated Customer Service and Technical Support Department at:

Email us at: cs@busybeetools.com

Call us Toll Free: 1-800-461-2879.

Busy Bee Tools Head Office

130 Great Gulf Drive

Concord ON, L4K 5W1

Or at any of our branches across Canada.

For more information visit our website www.busybeetools.com

Our team of experts is here to provide the guidance and support you need and ensure the safe and efficient operation of your machine. We are committed to assisting you in any way we can. Your satisfaction and safety are our top priorities.



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Section 1: Machine Identification

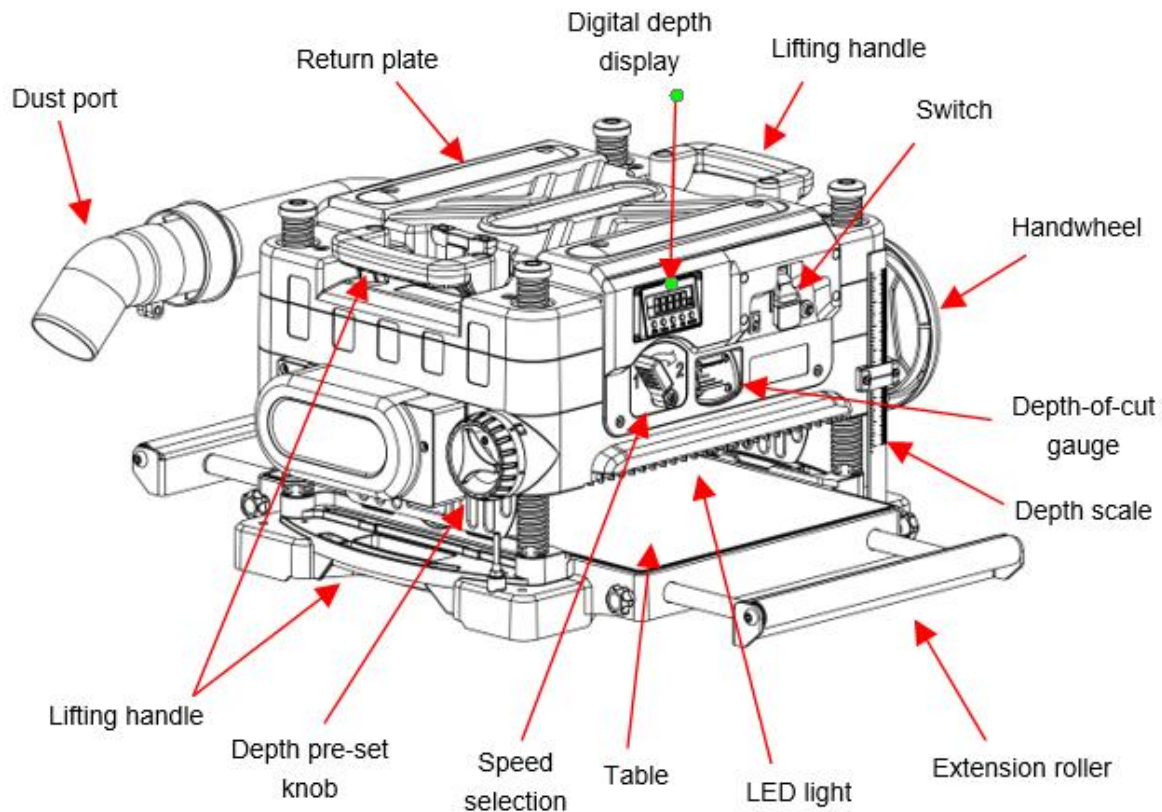


Figure 1: Machine Identification

Loose Parts Included

1- Planer.	6- Handwheel
2- Adapter	7- Torx Wrench
3- Hose Clamp	8- Hardware Package (not Shown)
4- Collection Bag	9- Helical Inserts screws
5- Dust Port	10-Helical Cutterhead Inserts

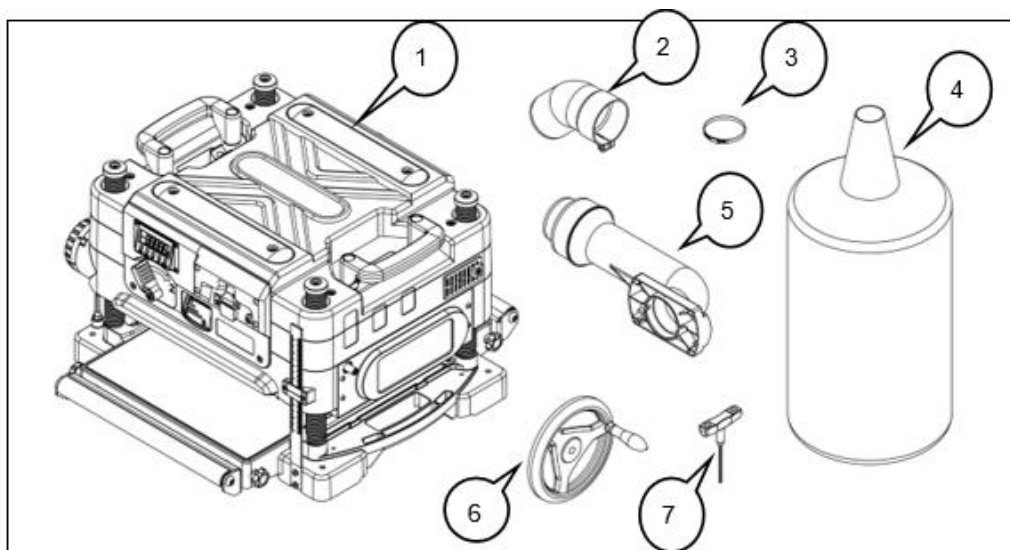
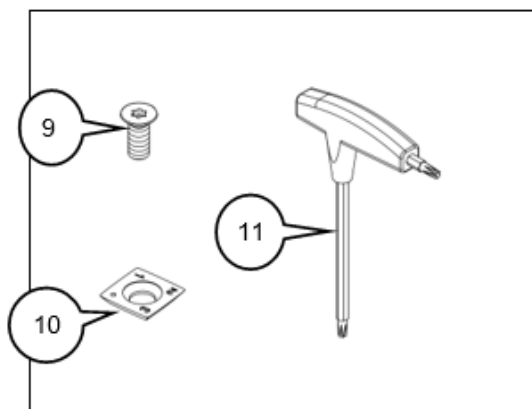


Figure 2 & 3: What's in the box.



Specifications

Model	BBPL15
Motor Power	2HP, 120V, 20A, 60Hz
Motor protection	Thermal reset button
Pass-through width	15 in. (381 mm)
Pass-through height	7 in (180 mm)
Max. cutting depth for board width acceptance	1/32 in. (0.8 mm) Maximum for hard wood 1/16 in. (1.6 mm) maximum for soft wood
Feed rate speed	3 / 5 m/min 9.84/16.40 ft/min
Cutting block speed	7600 RPM
Cutterhead insert Specifications	15X15X2.5 mm CXHCINS & CXINSR100

Section 2: Safety Instructions

Safety Symbols



Read and understand the entire manual before assembly or operation.



Always wear safety goggles, ear protection and dust protection.



Always tie back long hair



Keep hands away from dangerous area and sharp cutters.



Disconnect from the power source before conducting maintenance work and cleanup.



This machine is heavy and requires two people to lift it.

Noise Emission Characteristics

The noise emission values have been determined in accordance with **ISO 3744**.

The declared noise values are **emission values** obtained under standardized test conditions. They are intended for comparison between machines and should **not** be interpreted as workplace exposure levels or as an indication of safe operating conditions.

Although there is a relationship between noise emission and operator exposure, the declared emission values cannot be used to determine whether additional hearing protection or other noise control measures are required. Actual operator exposure depends on several factors, including but not limited to:

- The work process being performed.
- The duration of machine operation.
- The acoustic characteristics of the workplace.

- The presence of other operating machinery or sources of noise.
- Machine installation and mounting conditions.

Actual workplace noise exposure may vary depending on local regulations and operating conditions.

If verification of the declared noise emission values is required, measurements shall be performed using the same test method and under identical operating and mounting conditions as those used to obtain the declared values.

WARNING

The declared noise emission values are valid only when the machine is operated and installed under the specified test conditions. Changes in the work process, tooling, installation, mounting, or operating conditions may result in higher noise emissions and increased operator exposure.

Declared Noise Emission Values

Parameter	Value
A-weighted Emission Sound Pressure Level, LpA (at the operator's ear)	101 dB(A)
Measurement Uncertainty, KpA	3 dB
A-weighted Sound Power Level, LWA	108 dB(A)
Measurement Uncertainty, KWA	3 dB

Hearing protection shall be worn whenever operating this machine

General Safety Instructions

Read Before Operating

WARNING

Failure to follow these safety instructions may result in serious personal injury, electric shock, fire, or damage to the machine.

This safety information should be made available to all persons who install, operate, maintain, or service this machine. Every operator must read and fully understand this Operator's Manual, particularly the **Safety Instructions** section, before operating the machine. Personnel who use the machine only occasionally, such as during setup, adjustment, maintenance, or servicing, must also be familiar with these instructions.



General Safety Requirements

- Read, understand, and follow this entire Operator's Manual before installing, operating, servicing, or maintaining the machine.
- Read and obey all warning labels and safety signs attached to the machine.
- This thickness planer is intended for use only by properly trained and qualified operators.
- Do not operate the machine until you have received adequate instruction in its safe operation.
- **This machine's use is intended for natural wood only DO NOT use with engineered wood, or other unnatural materials.**
- Use the machine only for its intended purpose.
- Never remove, cover, or deface any warning labels or safety markings. Replace damaged or illegible labels immediately.
- Inspect the machine before each use. Do not operate the machine if any safety device, switch, electrical component, plug, cord, or other part is damaged or malfunctioning.
- Ensure all guards, covers, and protective devices are correctly installed and functioning before operating the machine.
- Disconnect the machine from the power supply immediately if a malfunction occurs.

Electrical Safety

- Inspect the power cord and plug before each use. Do not operate the machine with damaged electrical components.
- The machine must be properly grounded before operation.
- The green or green/yellow conductor is the equipment grounding conductor.
- Installation, repair, and maintenance of electrical components shall only be performed by qualified electrical personnel.
- Disconnect the machine from the power supply before performing adjustments, cleaning, maintenance, repairs, or when the machine is not in use.
- Do not pull or carry the machine by the power cord.
- Protect electrical cords from heat, oil, sharp edges, and moving parts.
- Avoid body contact with grounded surfaces such as pipes, radiators, stoves, and refrigerators while operating the machine.
- Whenever the machine is relocated, even over a short distance, disconnect it from the power supply before moving.



Work Area Safety

- Install the machine on a solid, level, and stable surface.
- Secure the machine to the floor using appropriate anchor bolts before operation.
- Keep the work area clean, dry, and well illuminated.
- Remove wood chips, sawdust, and debris regularly to reduce the risk of slips, fires, and accidents.
- Keep children, visitors, and unauthorized personnel away from the work area.
- Store the machine in a dry, secure location when not in use.
- Do not expose the machine to rain, moisture, or damp environments.
- Do not operate the machine in areas containing flammable liquids, gases, or explosive atmospheres.

Personal Safety

- Stay alert and remain focused while operating the machine.
- Never operate the machine while tired or under the influence of alcohol, drugs, or medication.
- Operators must be at least **18 years of age**.
- Trainees at least **16 years of age** may operate the machine only under the direct supervision of a qualified instructor.
- Do not allow distractions while operating the machine.
- Wear close-fitting clothing and remove loose jewelry, rings, watches, ties, and other loose items before operating the machine.
- Contain long hair with a suitable hair covering or hair net.
- Keep hands clean, dry, and free of oil or grease to maintain a secure grip.

Personal Protective Equipment (PPE)

Always wear appropriate personal protective equipment while operating the machine, including:

- Approved safety glasses or a face shield.
- Hearing protection.
- A suitable dust mask or respirator appropriate for wood dust.
- Non-slip safety footwear.

Safe Machine Operation

- Verify that all adjustment keys, wrenches, and setup tools have been removed before starting the machine.



- Never exceed the machine's rated operating capacity.
- Exercise extreme caution around rotating cutterheads. Contact with rotating cutting tools can result in severe injury.
- Never place hands near moving or rotating components.
- Turn the machine OFF and wait until all moving parts have completely stopped before adjusting, changing settings, cleaning, or performing maintenance.
- Disconnect the machine from the power supply before servicing.
- Reinstall all guards and safety devices immediately after maintenance or repairs.
- Turn the machine OFF and disconnect the power whenever leaving the work area unattended.

Dust Collection

- Operate the machine indoors only with an effective dust and chip extraction system connected. An effective dust and chip extraction system must be used when operating the machine indoors.
- Start the dust collection system before beginning any machining operation.
- The dust extraction system shall provide an air velocity of approximately **1200m³/h (706 CFM)** at the collection port to ensure effective chip removal.
- Regularly inspect the dust collection system to ensure proper operation.
- The collection bag is to be used temporarily only in cases where the machine is being used on-site, and no dust collection system is available.

Additional Safety Precautions

- Inspect the machine before each use to verify that all guards, switches, and safety devices are functioning correctly.
- Never operate a damaged or improperly maintained machine.
- Ensure adequate lighting is available throughout the work area.
- Disconnect the machine from the power supply whenever it is not in use.
- Follow all applicable local electrical and workplace safety regulations.

Special Safety Instructions – Thickness Planer

Cutting Tool Safety

- Do not use dull cutting blades, as this significantly increases the risk of kickback and loss of control.
- Use only sharp, properly maintained cutting blades to ensure safe and efficient operation.
- Do not use cracked, damaged, or deformed cutting blades. Replace any blade that is no longer in its original condition.



- Inspect the cutterhead and cutting blades regularly to ensure correct operation and secure mounting.
- Verify that all cutting blades are correctly and securely fastened before operation.

Workpiece Handling

- Use a push stick or appropriate feeding aid when machining short workpieces to maintain safe control.
- Provide adequate external support for heavy or large workpieces using suitable support equipment (e.g., roller stands, jack supports, or extension tables).
- Do not plane workpieces that are not adequately supported or stable during feeding.

Prohibited Operations

The following operations are strictly prohibited:

- Interrupted cuts (i.e., cuts that do not involve the full length of the workpiece).
- Machining of recesses, tenons, grooves, or molding profiles.
- Planing of severely warped or bowed wood where full and stable contact with the infeed table cannot be maintained.

Personal Safety During Blade Handling

- Wear appropriate protective gloves when handling or replacing cutting blades to prevent injury.
- Do not wear gloves during normal machine operation, as gloves may become entangled in moving parts.

Machine Safety Requirements

- Do not operate the machine without the dust chute or dust extraction system properly installed. Failure to do so may result in serious injury.
- Ensure the dust extraction system is connected and operational before starting the machine.

General Operational Warnings

- Always ensure the cutterhead is fully stopped before performing any adjustment, maintenance, or blade change.
- Maintain constant attention during operation and ensure safe feeding practices at all times.



Section 3: Electrical Requirements

Electrical Safety Instructions

Electrical Hazards and Circuit Protection

WARNING

To reduce the risk of electric shock, fire, or damage to the machine, appropriate circuit protection must be used. The machine shall be connected to a dedicated electrical circuit suitable for the rated load. Sharing the circuit with other high-load equipment is not permitted.

If the power cord is worn, cut, damaged, or shows any signs of deterioration, it must be replaced immediately by a qualified service technician.

Electrical Rating

ATTENTION

This machine has a rated current of **20 A**. Ensure that the power supply, outlet, and circuit components are properly rated and capable of supporting this load without overload.

Grounding Instructions

WARNING

This machine must be properly grounded during operation to protect the operator against electrical shock.

In the event of a malfunction or electrical breakdown, grounding provides a low-

resistance path for electrical current, reducing the risk of electric shock.

The machine is equipped with a power cord containing an equipment grounding conductor and a grounding plug. The plug must be connected only to a properly installed and grounded receptacle in accordance with all applicable local electrical codes and regulations.

- Do not modify the supplied plug in any way.
- If the plug does not fit the outlet, a properly grounded receptacle must be installed by a qualified electrician.
- Improper connection of the equipment grounding conductor may result in electric shock.
- The grounding conductor is identified by green insulation, with or without yellow stripes.
- If the power cord or plug requires replacement, the grounding conductor must not be connected to a live terminal under any circumstance.
- If there is any uncertainty regarding proper grounding, consult a qualified electrician or authorized service technician.

Indoor Use Restriction

WARNING



This machine is designed for **indoor use only**. Do not expose the machine to rain, moisture, or wet environments.

Extension Cord Requirements

When an extension cord is required:

- Use only an extension cord that is in good condition and properly rated for the machine's current draw.
- The cord must be of sufficient wire gauge to prevent voltage drop and overheating.
- Undersized cords may result in power loss, overheating, and potential equipment damage.
- Inspect extension cords regularly and replace any damaged cords immediately.
- Protect extension cords from sharp edges, heat sources, oil, and wet or damp areas.
- Any damaged extension cord must be repaired or replaced by a qualified person prior to use.

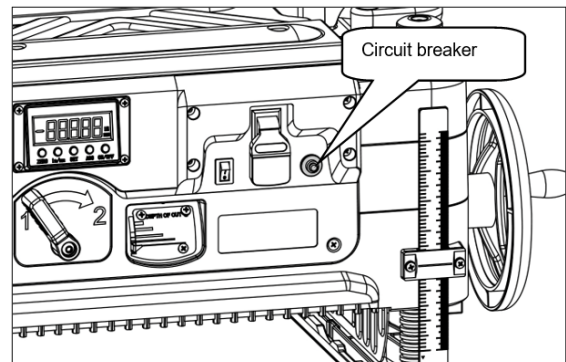
Circuit Breaker Protection

The machine is equipped with a motor protection device (circuit breaker).

- The circuit breaker will automatically shut off the machine in the event of excessive current draw.
- If the circuit breaker is triggered, switch the machine OFF before resetting the breaker.

- Reset the breaker only after the machine has been switched OFF to prevent accidental restart.

Failure to follow this procedure may result in unintended machine activation and potential injury.



Section 4: Assembly

Assembly and Installation Instructions

Safety Warning

WARNING

Do not connect the machine to the power supply until assembly has been fully completed. Failure to comply may result in accidental start-up and serious personal injury.

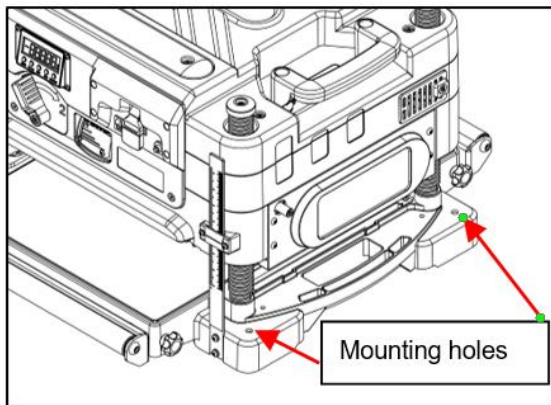
Installation and Setup Requirements

- For handling larger workpieces requiring table adjustment, suitable support equipment such as table extensions or auxiliary lifting devices (e.g., jack-up stands or roller supports) must be used.

- When operating the machine, an approved dust and chip extraction system must be connected and operational.
- Ensure the machine is installed on a stable surface and that all setup requirements specified in the technical documentation are met.

1. Machine Installation

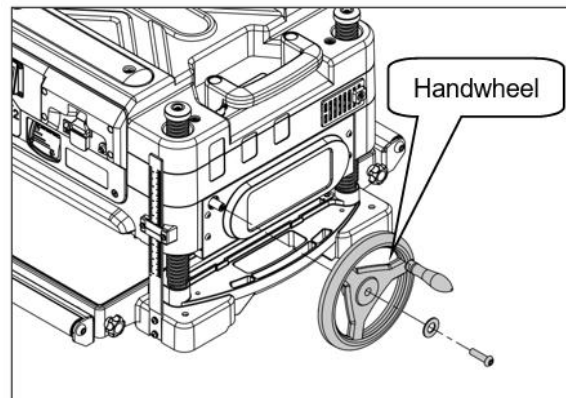
- The thickness planer must be installed on a stable, level work bench or table before operation.
- The base is equipped with four mounting holes located at each corner.
- Secure the machine firmly to the work surface using appropriate fasteners to prevent movement during operation.



2. Handwheel Installation

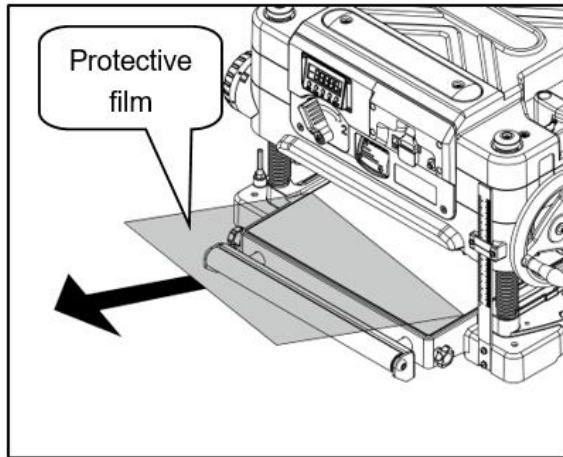
- Install the handwheel onto the drive shaft.

- Secure the handwheel using an **M6 × 25 socket pan head screw** and a **6 mm flat washer**.
- Ensure the handwheel is properly tightened and rotates freely without obstruction.



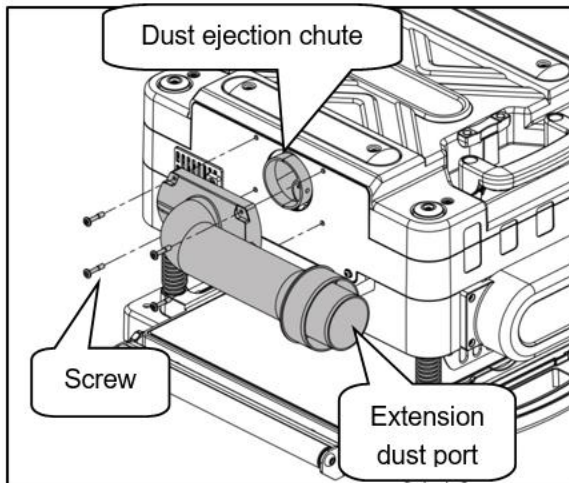
3. Removal of Shipping Materials

- Rotate the height adjustment handwheel to raise the cutterhead assembly.
- Remove the polystyrene insert located between the main table and the cutterhead assembly.
 - This material is packaging protection and must be removed before operation.
- If a protective film is applied to the table surface, remove it completely prior to use.



4. Dust Port Installation

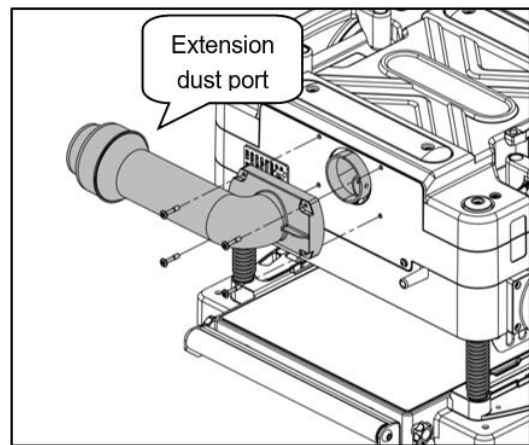
- Attach the extension dust port to the dust ejection chute.
- Secure the dust port using four **M6 × 27.5 socket pan head screws**.
- The dust port may be installed to direct chip ejection to either side of the machine, depending on workspace configuration.



- Connect a suitable dust extraction hose to the dust port outlet.

5. Dust Extraction System Requirement

- The use of a dust extraction system is strongly recommended to ensure a clean and safe working environment.
- Proper dust extraction reduces chip accumulation and prevents clogging of the dust chute.

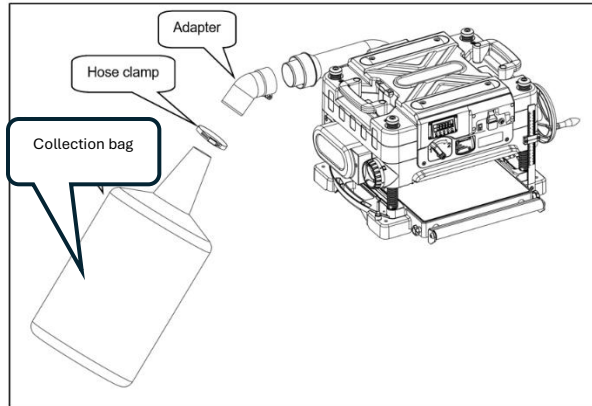


6. Optional Temporary Chip Collection (No Dust Extraction System)

If a dust extraction system is not available:

- Install the supplied collection bag system.
- Slide the adapter onto the end of the extension dust port.
- Secure the adapter using the provided pan head screw.
- Attach the collection bag to the adapter.

- Secure the collection bag using the hose clamp to ensure airtight fit.



Section 5: Operation

General Safety Instructions and Residual Risks

General Operating Safety

- All protective and safety devices must be correctly installed before the machine is put into operation.
- The machine is designed for operation by one person only.
- All safety and warning labels on the machine must be observed and kept in a clearly legible condition at all times.
- The machine shall only be operated when in technically sound condition and only for its intended purpose, in accordance with the operating instructions.
- Any defects or conditions that may affect operational safety must be rectified immediately.
- Only original manufacturer parts, tools, and accessories shall be used.
- Use of non-specified tools or accessories may result in hazardous operating conditions.
- The manufacturer accepts no liability for damage or injury resulting from improper use. All risks associated with non-compliant use are borne by the operator.

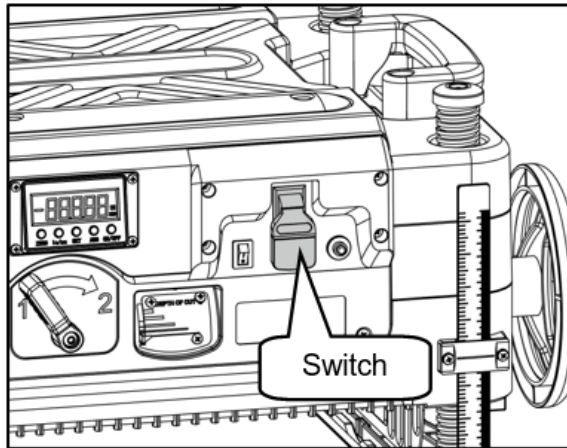
Operational Discipline

- Maintain full concentration during operation. Do not operate the machine when fatigued or under the influence of alcohol, drugs, or medication.
- Do not overreach. Always maintain a stable stance and proper balance.
- The operator must remain in control of the machine at all times. Do not leave the machine unattended while it is running.
- Do not allow rags, cables, or loose materials to remain on the work surface during operation.

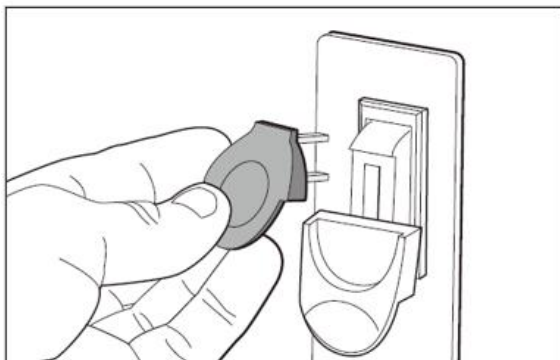
Machine Condition and Inspection

- Before operation, inspect the machine for damage or defects.

- If any protective device or component is damaged, operation must be stopped immediately and the defect assessed.
- Verify that all moving parts operate freely and without obstruction.



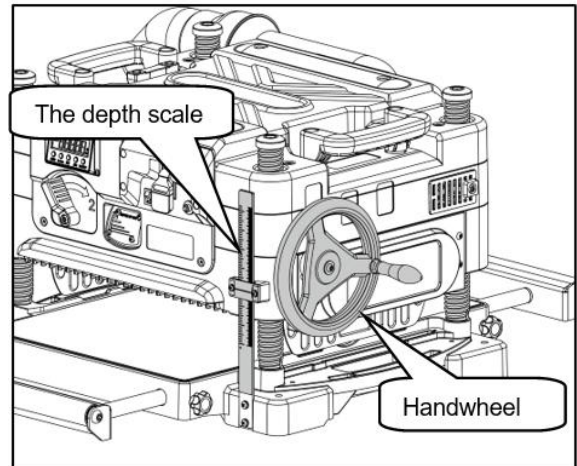
- Do not operate the machine if the ON/OFF switch or any control element is defective. Faulty switches must be replaced by an authorized service center.



- To ensure unauthorized operation of the machine does not occur, always remove the lockout key

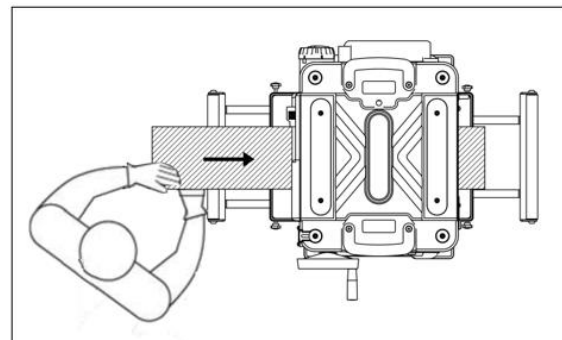
from the ON/OFF switch when the machine is unattended.

- Ensure the power supply matches the specifications indicated on the machine rating plate.



Safe Work Practices

- Ensure that all foreign objects such as nails, screws, and other metal inclusions are removed from the workpiece prior to machining.
- Keep hands at a safe distance from all rotating cutting tools at all times.



- Operator should stand to one side of machine when feeding workpiece into machine to avoid

injury in the event of possible kick-back.

- Observe correct handwheel rotation direction and proper depth of cut to prevent the damage to the cutterhead.
- Do not allow cutting tools to contact the workpiece when starting the machine.
- Allow the machine to reach full operating speed before commencing work.
- Turn off the machine and wait for complete tool stop before removing workpieces from the table.
- Do not touch cutting tools immediately after operation, as they may be hot and cause burns.
- Support workpieces adequately during machining.
- Use appropriate auxiliary supports for small workpieces to ensure safe handling.

Digital Display Button Function Description



1) ZERO Button

- The **ZERO** button is used to clear the current digital display value and establish a new reference zero point.
- Press the **ZERO** button to reset the display. When the headstock height is adjusted after setting the zero point, the digital display will indicate the amount of movement from the newly established reference position.

2) IN/MM Button

- The **IN/MM** button allows the user to switch the digital display measurement units between **inches (IN)** and **millimeters (MM)**.

3) SET Button

- The **SET** button is used to calibrate the digital display to the actual thickness of the workpiece after machining.
- After planing, measure the finished workpiece thickness using a suitable measuring device. Press the **SET** button and

adjust the displayed value until it matches the actual measured thickness.

4) ABS Button

- The **ABS** button displays the absolute thickness setting of the workpiece after planing. This value represents the distance between the lowest point of the cutter head and the machine table surface.
- **Important:**
Adjusting the headstock height while the machine is disconnected from the power supply may cause the displayed thickness value to become inaccurate. It is recommended to verify the thickness's reading each time the machine is powered on. If the displayed value is incorrect, recalibrate the digital display according to the setting procedure provided in this manual.

5) ON/OFF Button

- The **ON/OFF** button is used to turn the digital display on or off.

Speed Selection

- **Changing the speed selection must only be done while the machine is running. Damage to the machine may result from failure to follow this instruction.**

Maintenance and Repair

- Maintenance, repair, and servicing may only be carried out by personnel who are trained and familiar with the associated hazards.
- Unauthorized modifications to the machine void manufacturer liability for resulting damage or injury.
- Damaged components must be repaired or replaced by an authorized service center unless otherwise specified in the manual.

Electrical Safety

- Ensure the electrical supply corresponds to the specifications on the machine identification plate.
- All electrical faults must be corrected by qualified personnel only.

Personal Protective Measures

- Wear appropriate personal protective equipment at all times, including safety glasses and dust protection equipment.
- Wear suitable protective gloves when handling tools, particularly during installation or removal.
- Do not wear gloves during normal operation where there is a risk of entanglement.

- Secure long hair and avoid loose clothing, jewelry, or accessories that may be caught in moving parts.

Environmental Conditions

- Do not expose the machine to rain or wet conditions.
- External metal components may become hot after prolonged operation.

Prohibited Practices and Warnings

- Do not lean excessively forward during operation.
- Do not operate the machine without proper guards or safety devices installed.
- Do not use the machine for any purpose other than its intended application.
- Improper use may result in serious injury and is the sole responsibility of the operator.

Warning on External Components

- The use of non-recommended tools, accessories, or attachments may result in serious injury.

Residual Risks

Despite compliance with all applicable safety regulations and the implementation of protective measures, residual risks may remain, including:

- Risk of injury to hands and fingers from rotating cutting tools

due to improper feeding of the workpiece.

- Exposure to wood dust, which may present health hazards. Use of an effective dust extraction system and appropriate respiratory protection is mandatory.
- Risk of injury from defective or improperly maintained cutting tools. Tools must be inspected regularly and kept in serviceable condition.
- Risk of injury during tool changes. Appropriate protective gloves must be used.
- Risk of entanglement involving long hair, loose clothing, or jewelry. Appropriate personal protective measures must be used.
- Electrical hazards arising from improper installation or faulty connections.

Residual risks are minimized only when all instructions in this manual are strictly followed.

Section 6: Maintenance and Troubleshooting

Cutter Blade Replacement

WARNING

Turn the machine **OFF**, disconnect it from the power supply, and wait until the

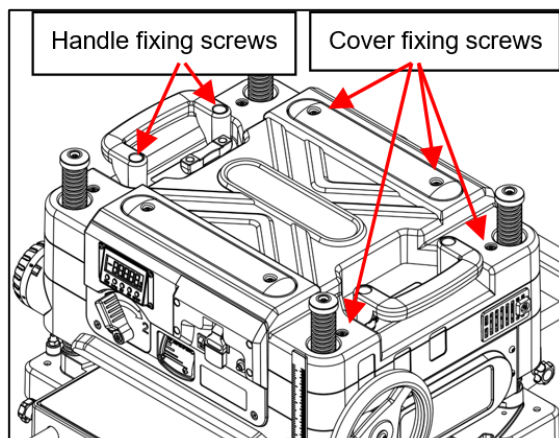


cutterhead has come to a complete stop before performing any maintenance, adjustments, or blade replacement. Failure to follow these instructions may result in serious personal injury.

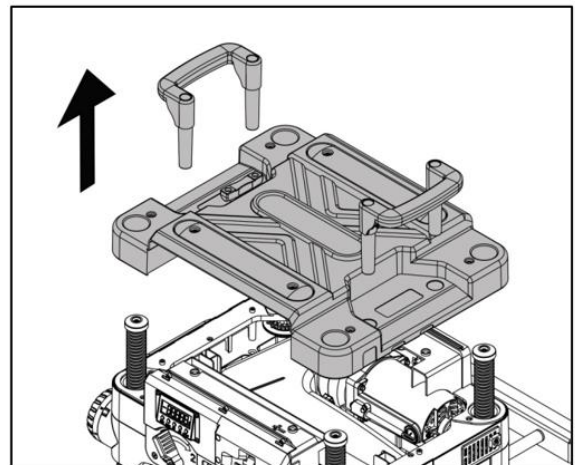
Replace the cutter blades if the machine produces an uneven surface finish, excessive snipe, or gouges the workpiece.

Blade Removal Procedure

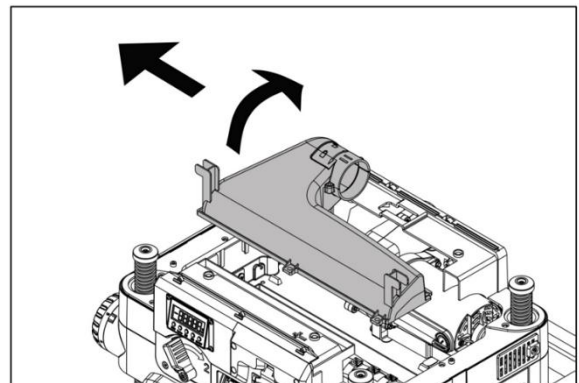
1. Fully loosen the lift handle retaining screws.



2. Remove both lift handles from the machine.
3. Fully loosen the eight screws securing the top cover.
4. Remove the top cover to gain access to the cutterhead assembly.
5. Continue the blade replacement procedure as described in the following section.



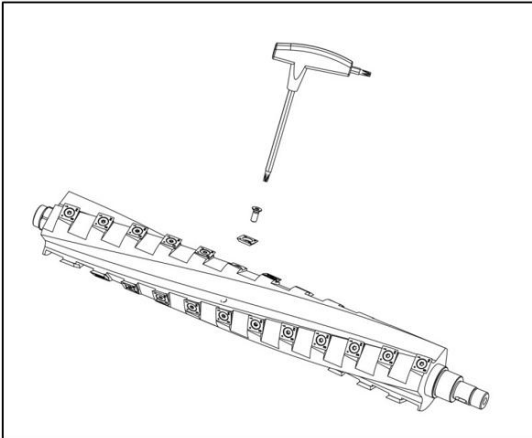
6. Remove the screws securing the dust shroud.



7. Rotate the dust shroud upward until the circular connection disengages from the fan housing.
8. Slide the dust shroud to the left to completely release it from the fan housing, then remove the dust shroud and set it aside.

9. Carefully rotate the cutterhead by hand toward you until it is locked in position by the self-engaging indexing latch.

10. Using the supplied Torx wrench, remove the knife retaining screw and then remove the helical insert knife.



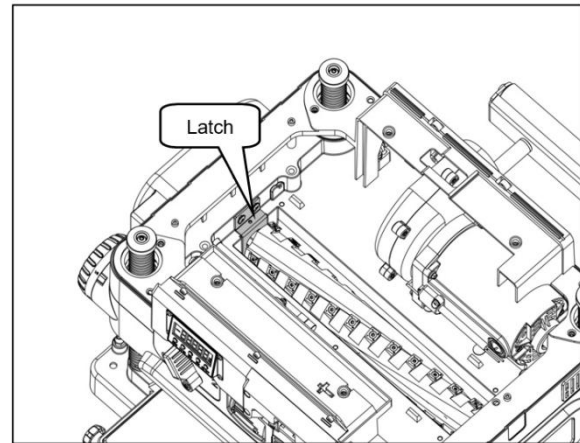
11. Inspect the insert knife for wear or damage.

- If only one cutting edge is worn, rotate the insert knife to expose a new cutting edge.
- If all cutting edges are worn or the insert is damaged, replace it with a new insert knife of the same specification.

12. Reinstall the insert knife and securely tighten the retaining screw.

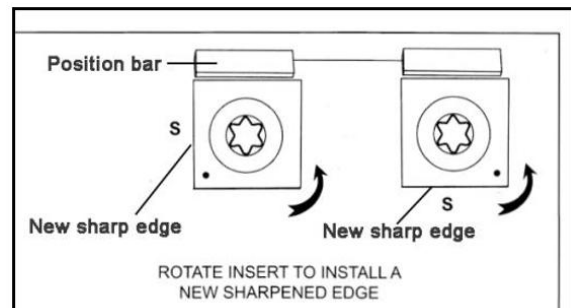
IMPORTANT

- Ensure the insert knife and mounting pocket are clean and



free of dust, chips, or debris before installation.

- Verify that the insert knife is properly seated before tightening the retaining screw.
- Replace only one insert knife at a time to prevent incorrect installation or indexing errors.
- After completing blade replacement, rotate the cutterhead by hand through one full revolution to ensure all insert knives are correctly seated and that there is no interference



before reconnecting the machine to the power supply.

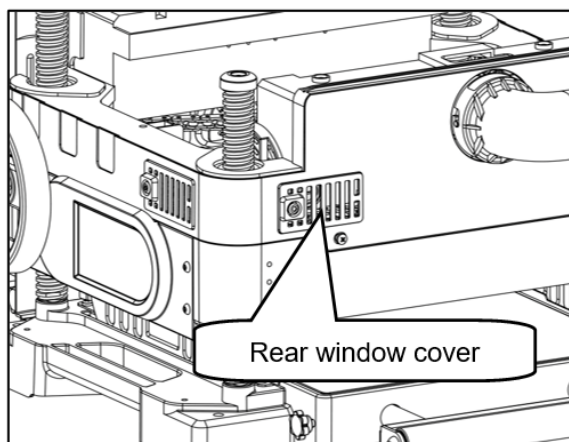
Carbon Brush Inspection and Replacement

WARNING

Turn the machine **OFF**, disconnect it from the power supply, and allow the motor to come to a complete stop before inspecting or replacing the carbon brushes. Failure to do so may result in serious personal injury.

The service life of the carbon brushes depends on the operating conditions and motor load. Inspect the brushes every **50 operating hours** or more frequently when the machine is subjected to heavy-duty use.

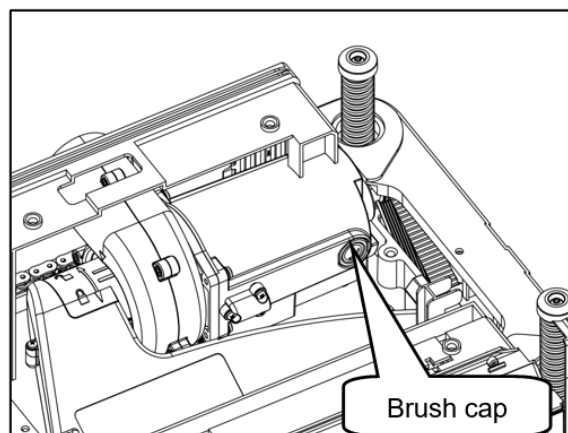
The motor is equipped with one carbon brush on each side.



Inspection and Replacement Procedure

1. Remove the top cover.
2. Remove the rear motor cover to gain access to the carbon brushes.

3. Unscrew the brush caps using a suitable screwdriver.
4. Carefully withdraw each carbon brush from its holder.



5. Inspect the brushes for excessive wear, cracking, chipping, or other damage.
6. Replace both carbon brushes as a matched pair if either brush has reached its wear limit or is damaged.
7. Reinstall the new brushes, ensuring they move freely within the brush holders.
8. Reinstall and securely tighten the brush caps.
9. Refit the rear motor cover and top cover before reconnecting the machine to the power supply.

IMPORTANT

- Always replace both carbon brushes at the same time to ensure even motor performance.

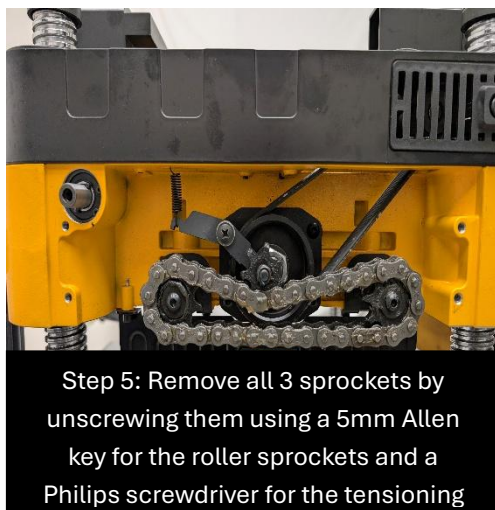
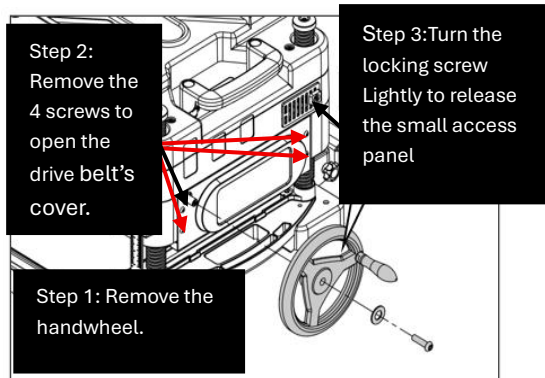
- Use only genuine replacement carbon brushes of the correct specification.
- After replacing the brushes, operate the machine without load for several minutes to allow the new brushes to properly seat against the commutator.

Replacing the Drive Belt

Step 1: Unscrew and remove the hand wheel.

Step 2: Remove the 4 screws to access the belt and pulley assembly.

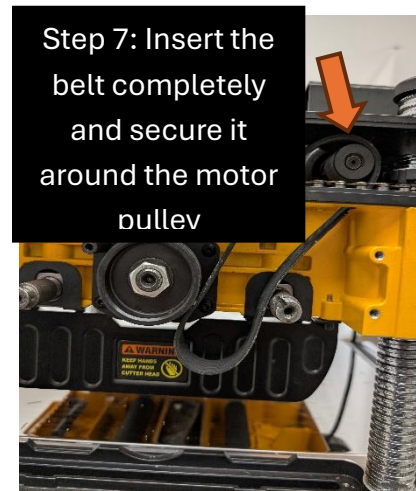
Step 3: Turn the locking screw for the small access window for the motor pulley.



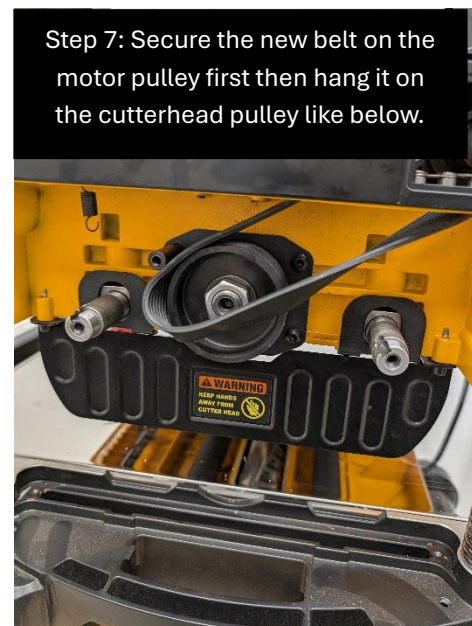
Step 4: If you are replacing the drive belt you can cut the old one off and remove it.

Step 5: Remove the two sprockets and the tensioning sprocket out of the way.

Step 6: Slide the new belt in from the small upper window and let it sit on the motor pulley.



Step 7: Slide the edge of the belt onto the cutterhead pulley (just enough to create some traction).



Step 8: Use a 1" Socket and a ratchet on the cutterhead pulley and turn it slowly while securing the belt in place. See figure below. Keep turning the pulley until the belt is fully on.

Step 9: Slowly walk the belt into the correct position. This belt has 9 ribs they all need to be sitting correctly on both pulleys; this can be achieved by slowly walking the belt into position one rib at a time.



Step 10: Reinstall all the sprockets back and secure them well.

Step 11: Examine the positioning of the belt and make sure all the ribs are sitting correctly prior to running the machine again.

Step 12: Close all the access panels. Your machine is ready for operation.

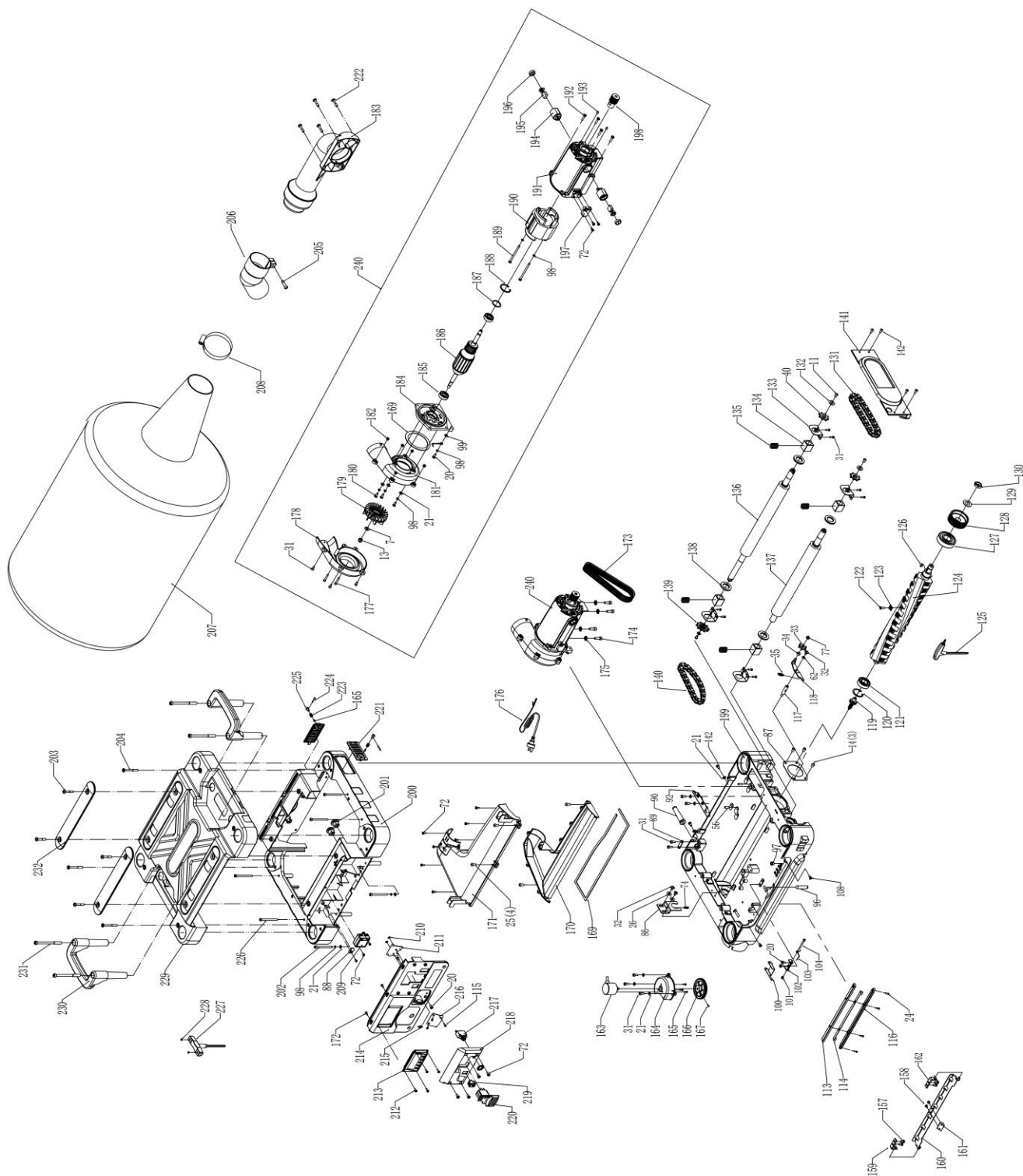
Troubleshooting

PROBLEM	CAUSE	SOLUTION
Machine does not start, or power supply breaker immediately trips after startup.	1. No power supply. 2. Power supply circuit breaker tripped, or fuse blown. 3. Machine circuit breaker tripped. 4. Switch is at fault. 5. Circuit breaker is at fault. 6. Wiring broken, disconnected, or corroded. 7. Carbon brush worn out. 8. Motor is at fault.	1. Check power supply. 2. Ensure circuit is free of shorts. Reset circuit breaker or replace fuse. 3. Reset circuit breaker. 4. Replace switch. 5. Replace the circuit breaker. 6. Fix broken wires or disconnected/corroded connections 7. Replace motor brushes. 8. Replace motor.
Machine stalls or is underpowered.	1. Workpiece material not suitable for machine. 2. Dull blades 3. Belt slipping; due to oil/grease on belts. 4. Motor brushes worn out. 5. Dust collection problem causing internal components to clog up with shavings. 6. Motor overheated, tripping machine circuit breaker. 7. Motor is at fault.	1. Only cut wood, reduce the cutting depth and feed speed. 2. Use sharp blades. 3. Clean belt 4. Replace motor brushes. 5. Clear blockages in dust chute/ducting, reduce the cutting depth and feed speed. 6. Clean motor/let cool and reduce workload. Reset breaker. 7. Replace motor.
Machine has vibration or noisy operation.	1. Motor or component loose. 2. Blades or blade clamps at fault. 3. Dust chips clogging the flow channel. 4. Gear box is at fault. 5. Pulley loose.	1. Inspect/tighten loose bolts/nuts; replace damaged components. 2. Check and replace blades or blade clamps. 3. Clean the dust chips. Reduce the cutting depth. 4. Repair or replace gear box. 5. Secure pulley on shaft.
Workpiece stops/slows in middle of cut.	1. Excessive depth of cut. 2. There is glue on the working table. 3. The workpiece is too large and too heavy.	1. Reduce depth of cut. 2. Clean the table 3. Reduce depth of cut and feed with the push stick.
Excessive snipe (gouge at the end of the workpiece that is uneven with the rest of the cut).	1. Support rollers are not aligned with main table 2. Workpiece not properly supported as it leaves planer.	1. Adjust and align the extension support rollers with main table. 2. Properly support the workpiece.
Long lines or ridges that run along length of board.	1. Nicked or chipped blade	1. Replace the blade.



This diagram is a detailed exploded perspective view of a vehicle seat assembly. The main components are shown in their relative positions as they would be assembled. Key parts include:

- Seat Cushion and Backrest:** The central rectangular components, labeled 10 and 11, which form the main seating surface.
- Side Bolsters:** Labeled 12 and 13, these are positioned on the sides of the main cushion and backrest.
- Headrest:** Labeled 14, it is positioned at the top of the backrest assembly.
- Base and Frame:** The lower structure, including components 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 8



Parts List

NO.	Part Number	DESCRIPTION	QTY.
1	PBBPL15001	Base	1
2	ZWFM1000000	Flat washer 10MM	4
3	ZWLKM100000	Lock washer 10MM	4
4	ZSCHM1015035	Socket head screw M10-1.5X35MM	4
5	PBBPL15005	Guide bracket	8
6	ZSCHM508016	Socket head screw M5-0.80X16MM	16
7	PBBPL15007	Flat washer 8mm	5
8	PBBPL15008	Scale plate	1
9	PBBPL15009	Sliding rod	4
10	ZWFM600000	Flat washer 6MM	4
11	ZSPHM610012	Socket pan head screw M6-1.00X12MM	8
12	PBBPL15012	Front extension roller support	1
13	ZNLKM812500	Locknut M8-1.25	5
14	PBBPL15014	Shoulder screw	4
15	ZBRG0628ZZ	Ball bearing 628-2RS	4
16	PBBPL15016	Extension roller	2
17	PBBPL15017	Knob screw M6X35MM	2
18	ZNHXM81250	Hex nut M8-1.25	1
19	PBBPL15019	Stop rod	1
20	PBBPL15020	Pan head screw	7
21	PBBPL15021	Flat washer	14
22	PBBPL15022	Knob screw M6-1.00X60MM	2
23	ZSPHM508010	Socket pan head screw M5-0.80X10MM	2
24	ZSPHM4070108	Pan head screw M4-0.70X8MM	2
25	ZSPHM610014	Socket pan head screw M6-1.00X14MM	8
26	ZWFM600000	Flat washer 6MM	7
27	PBBPL15027	Screw Top Plastic Cover	4
28	PBBPL15028	Elevating screw	4
29	PBBPL15029	Rear extension roller support	1
30	PBBPL15030	Table	1
31	ZSCHM508012	Socket head screw M5-0.80X12MM	29
32	PBBPL15032	Shoulder screw Ø6XM5-0.80X10MM	4
33	PBBPL15033	Tension sprocket	2
34	PBBPL15034	Bushing	2
35	PBBPL15035	Spring	2
36	PBBPL15036	Support plate	1



NO.	Part Number	DESCRIPTION	QTY.
37	PBBPL15037	Shoulder screw	1
38	PBBPL15038	Gear box Cover	1
39	ZRCEXTM15	External retaining ring 15mm	1
40	PBBPL15040	Sprocket	3
41	PBBPL15041	Flat washer	2
42	ZBRG6002ZZ	Ball bearing 6002-2RS	1
43	ZKEY050540	Key 5X5X40MM	1
44	PBBPL15044	Shaft	1
45	PBBPL15045	Combined gear	1
46	ZBRG0698ZZ	Ball bearing 698-2RS	4
47	PBBPL15047	Bushing	1
48	PBBPL15048	Gear box	1
49	PBBPL15049	Gear 67T	1
50	PBBPL15050	Combined gear 22-14T	1
51	PBBPL15051	Gear shaft 9T	1
52	ZKEY040408	Key 4X4X8MM	2
53	PBBPL15053	Flat washer	2
54	PBBPL15054	Gear 57T	1
55	PBBPL15055	Copper bushing	2
56	ZPIN0500120	Pin 5X12MM	6
57	ZPINS030020	Spring pin 3X20MM	3
58	PBBPL15058	Pawl rod	1
59	PBBPL15059	Pawl	1
60	PBBPL15060	Shoulder screw	1
61	PBBPL15061	Bushing	1
62	ZWFM600000	Flat washer 6MM	2
63	ZSPHM508016	Socket pan head screw M5-0.80X16MM	3
64	PBBPL15064	Chain cover	1
65	ZSCHM610085	Socket head screw M6-1.00X85MM	3
66	PBBPL15066	Lock knob INT.	1
67	PBBPL15067	Wave washer	1
68	ZSSETM812510	Set screw M8-1.25X10MM	1
69	PBBPL15069	E type retaining ring 8	1
70	PBBPL15070	Depth stop adjusting knob	1
71	PBBPL15071	Depth stop block	1
72	PBBPL15072	Self-threading screw 4.2-1.4X9.5MM	18
73	PBBPL15073	Shaft	1



NO.	Part Number	DESCRIPTION	QTY.
74	PBBPL15074	Spring	2
75	PBBPL15075	Steel ball 6MM	1
76	PBBPL15076	Pointer	1
77	ZNLKM610000	Lock nut M6-1.00	3
78	PBBPL15078	Pawl	1
79	ZPINS030012	Spring pin 3X12MM	1
80	PBBPL15080	Shaft	1
81	ZRINGE09MM	E type retaining ring 9MM	2
82	PBBPL15082	Spring	1
83	PBBPL15083	Flat washer	2
84	PBBPL15084	Feeding speed adjusting knob	1
85	PBBPL15085	Bushing	1
86	PBBPL15086	Cutterhead locking plate	1
87	PBBPL15087	Bearing cover plate	1
88	PBBPL15088	Cord clamp	1
89	PBBPL15089	Limit plate	2
90	PBBPL15090	Rubber bushing	1
91	PBBPL15091	Rod limiting plate	1
92	PBBPL15092	Cord protecting plate	1
93	PBBPL15093	Rivet	1
94	PBBPL15094	Tension sprocket	1
95	PBBPL15095	Tension sprocket support	1
96	PBBPL15096	Round ending pin	1
97	PBBPL15097	Rubber bushing	1
98	ZWLKM50800	Lock washer M5	13
99	ZWSRM5000	Serrated washer M5	4
100	PBBPL15100	Cutting depth limit pointer	1
101	ZNLKM407000	Locknut M4-0.70	1
102	PBBPL15102	Pointer base	1
103	PBBPL15103	Spring	1
104	ZSCHM407040	Socket head screw M4-0.70X40MM	1
105	ZSPHM407012	Pan head screw M4-0.70X12MM	2
106	ZWFM40000	Flat washer 4MM	2
107	PBBPL15107	Depth of cut Pointer	1
108	ZSFHM508012	Flat head screw M5-0.80X12MM	2
109	PBBPL15109	Helical gear 9T	1
110	ZBRG6001ZZ	Ball bearing 6001-2RS	1



NO.	Part Number	DESCRIPTION	QTY.
111	ZCRINT28MM	Internal retaining ring 28mm	1
112	PBBPL15112	Side cover	2
113	PBBPL15113	Light upper cover	1
114	PBBPL15114	Led light	1
115	ZSPHM407010	Pan head screw M4-0.70X10MM	3
116	PBBPL15116	Light lower cover	1
117	PBBPL15117	Shaft	1
118	PBBPL15118	Support plate	1
119	PBBPL15119	Driving gear	1
120	ZCRINT42MM	Internal retaining ring 42mm	1
121	ZBRG6004ZZ	Ball bearing 6004-2RS	1
122	PBBPL15122	T-20 Torx screw for cutterhead inserts	36
123	PBBPL15123	4-sided cutterhead inserts	36
124	PBBPL15124	Helical cutterhead	1
125	PBBPL15125	4mm Allen T-wrench	2
126	ZKEY050512	Key 5X5X12MM	1
127	ZBRG6305ZZ	Ball bearing 6305-2RS	1
128	PBBPL15128	Spindle pulley	1
129	ZWFM160000	Flat washer 16MM	1
130	ZNHXM1620015	Hex nut M16-2.00X1.5MM	1
131	PBBPL15131	Chain Pich 12.7X34 links	1
132	PBBPL15132	Flat washer 6MM	4
133	PBBPL15133	Retainer	4
134	PBBPL15134	Bearing block	4
135	PBBPL15135	Spring	4
136	PBBPL15136	Outfeed roller	1
137	PBBPL15137	Infeed roller	1
138	PBBPL15138	Gasket washer	4
139	PBBPL15139	Sprocket	1
140	PBBPL15140	Chain Pich 12.7X34 Links	1
141	PBBPL15141	Right chain cover	1
142	ZSPHM508010	Socket pan head screw M5-0.80X10MM	6
143	PBBPL15143	Round nut	4
144	PBBPL15144	Tab washer	4
145	PBBPL15145	Sprocket	4
146	PBBPL15146	Cover plate	4
147	PBBPL15147	Thrust bearing Ø40XØ65X9MM	8



NO.	Part Number	DESCRIPTION	QTY.
148	ZCCEXT40MM	External retaining ring 40mm	4
149	PBBPL15149	Helical gear 36T	1
150	ZKEY030310	Key 3X3X10mm	6
151	PBBPL15151	Elevating nut Ø40-ACMEØ32-4TPI 2 Key Slots	2
152	PBBPL15152	Spring	4
153	PBBPL15153	Adjusting nut	4
154	PBBPL15154	Socket head screw	8
155	PBBPL15155	Elevating nut Ø40-ACMEØ32-4TPI 1 Key Slot	2
156	PBBPL15156	Plastic gear	1
157	ZSPHM508012	Pan head screw M5-0.80X12MM	4
158	ZSPHM407508	Pan head screw M4-0.75X8MM	2
159	PBBPL15159	Left support plate	1
160	PBBPL15160	Touch plate	1
161	PBBPL15161	Link block	1
162	PBBPL15162	Right support plate	1
163	PBBPL15163	Sensor 3806-AB-1000N-DC5V	1
164	PBBPL15164	Sensor support bracket	1
165	ZSPHM305006	Pan head screw M3X6MM	5
166	PBBPL15166	Sensor gear M1.25X52T	1
167	ZSSETM407506	Set screw M4-0.70X6MM	1
168	PBBPL15168	Elevation Chain Pitch 12.7X140 Links	1
169	PBBPL15169	Gasket strip	1
170	PBBPL15170	Lower dust shroud	1
171	PBBPL15171	Upper dust shroud	1
172	PBBPL15172	Self-threading screw 4.2-1.4X9.5MM	3
173	PBBPL15173	Belt 177-J 9 Ribs	1
174	ZSCHM610020	Socket head screw M6-1.00x20MM	4
175	ZWLKM60000	Lock washer 6MM	4
176	PBBPL15176	Power cord SJT 300V-105C° VW-1 14AWGX3	1
177	ZSCHM508030	Socket head screw M5-0.80X30MM	2
178	PBBPL15178	Left fan housing	1
179	PBBPL15179	Fan	1
180	ZSPHM508016	Pan head screw M5-0.80x16MM	3
181	PBBPL15181	Right fan housing	1
182	ZNLKM508000	Lock nut M5-0.80	5
183	PBBPL15183	Adapter	1
184	PBBPL15184	Front cover	1



NO.	Part Number	DESCRIPTION	QTY.
185	ZBRG6201ZZ	Ball bearing 6201-ZZ	2
186	PBBPL15186	Rotor	1
187	PBBPL15187	Wave spring washer	1
188	PBBPL15188	Internal retaining ring 32MM	1
189	PBBPL15189	Self-threading screw 4.8-1.6X80MM	2
190	PBBPL15190	Stator	1
191	PBBPL15191	Motor case	1
192	ZBHXM508016	Hex head bolt M5-0.80X16MM	4
193	ZSSETM508008	Set screw M5-0.80X8MM	2
194	PBBPL15194	Brush holder	2
195	PBBPL15195	Carbon brush	2
196	PBBPL15196	Brush cover	2
197	PBBPL15197	Cord clamp	1
198	PBBPL15198	Motor pulley	1
199	PBBPL15199	Headstock	1
200	PBBPL15200	Headstock cover	1
201	PBBPL15201	Strain relief	2
202	ZSCHM508070	Socket head screw M5-0.80X70MM	2
203	ZSCHM610035	Socket pan head screw M6-1.00X35MM	4
204	ZSCHM610056	Socket pan head screw M6-1.00X56MM	4
205	ZSCHM610020	Socket pan head screw M6-1.00X20MM	1
206	PBBPL15206	Adapter	1
207	PBBPL15207	Collection bag	1
208	PBBPL15208	Hose clamp	1
209	PBBPL15209	LED driver	1
210	PBBPL15210	Retaining ring Ø4X8X0.5MM	2
211	PBBPL15211	Locking plate	1
212	PBBPL15212	Self-threading screw 3.5-1.3X9.5MM	4
213	PBBPL15213	Digital depth display	1
214	PBBPL15214	Front cover	1
215	PBBPL15215	Scale light	1
216	PBBPL15216	Cutting depth scale	1
217	PBBPL15217	Overload protector 120V-240V 12Amp	1
218	PBBPL15218	Switch mounting plate	1
219	PBBPL15219	Led light switch	1
220	PBBPL15220	ON/OFF Switch with Lockout Tab	1
221	PBBPL15221	Cover plate	2



NO.	Part Number	DESCRIPTION	QTY.
222	ZSCHM610027	Socket pan head screw M6-1.00X27.5MM	4
223	PBBPL15223	Spring	2
224	PBBPL15224	Pin 3X24mm	2
225	PBBPL15225	Pin	2
226	ZSCHM508060	Socket head screw M5-0.8X60MM	4
227	PBBPL15227	T-20 Torx Wrench	1
228	PBBPL15228	Magnet	2
229	PBBPL15229	Top cover	1
230	PBBPL15230	Lifting handle	2
231	ZSCHM8125105	Socket head screw M8-1.25X105MM	4
232	PBBPL15232	Return plate	2
233	PBBPL15233	Elevation Hand Wheel	1
234	ZSCHM610056	Handle	1
235	ZSCHM610020	Socket pan head screw M6-1.00X20MM	1
236	PBBPL15236	Gear box assembly	1
237	PBBPL15237	Elevating nut assembly A	2
238	PBBPL15238	Elevating nut assembly B	1
239	PBBPL15239	Elevating nut assembly C	1
240	PBBPL15MOT	Motor assembly	1





Busy Bee Tools

BUSY BEE TOOLS 2 YEARS LIMITED WARRANTY

Busy Bee Tools warrants every product to be free from defects in materials and agrees to correct such defects where applicable. This warranty covers **two years** for parts and 90 days for labor (unless specified otherwise), to the original purchaser from the date of purchase but does not apply to malfunctions arising directly or indirectly from misuse, abuse, improper installation or assembly, negligence, accidents, repairs or alterations or lack of maintenance.

Proof of purchase is necessary.

All warranty claims are subject to inspection of such products or part thereof and Busy Bee Tools reserves the right to inspect any returned item before a refund or replacement may be issued. This warranty shall not apply to consumable products such as blades, bits, belts, cutters, chisels, punches etc.

Busy Bee Tools shall in no event be liable for injuries, accidental or otherwise, death to persons or damage to property or for incidental contingent, special or consequential damages arising from the use of our products.

IF THE MACHINE IS ALTERED IN ANY WAY, THE WARRANTY SHALL BE NULL AND VOID.

WARRANTY, RETURNS, REPAIRS AND REPLACEMENTS

To return, repair, or replace a Busy Bee Tools product, you must visit the appropriate Busy Bee Tools showroom or call 1-800-461-BUSY.

For replacement parts directly from Busy Bee Tools, for this machine, please call 1-800-461-BUSY (2879), and have your model number and part number & payment option ready.

- All returned merchandise will be subject to a minimum charge of 15% for re-stocking and handling with the following qualifications.
- Returns must be pre-authorized by us in writing.
- We do not accept collect shipments.
- Items returned for warranty purposes must be insured and shipped pre-paid to the nearest warehouse
- Returns must be accompanied by a copy of your original invoice as proof of purchase. Returns must be in an un-used condition and shipped in their original packaging a letter explaining your reason for the return. Incurred shipping and handling charges are not refundable.
- Busy Bee will repair or replace the item at our discretion and subject to our inspection.
- Repaired or replaced items will be returned to you pre-paid by our choice of carriers.
- Busy Bee reserves the right to refuse reimbursement or repairs or replacement if a third party without our prior authorization has carried out repairs to the item.
- Repairs made by Busy Bee Tools are warranted for 30 days on parts and labor.
- Any unforeseen repair charges will be reported to you for acceptance prior to making the repairs.
- The Busy Bee Parts & Service Departments are fully equipped to do repairs on all products purchased from us except for some products that require the return to their authorized repair depots. A Busy Bee representative will provide you with the necessary information to have this done.
- For faster service it is advisable to contact the nearest Busy Bee location for parts availability prior to bringing your product in for repair.

