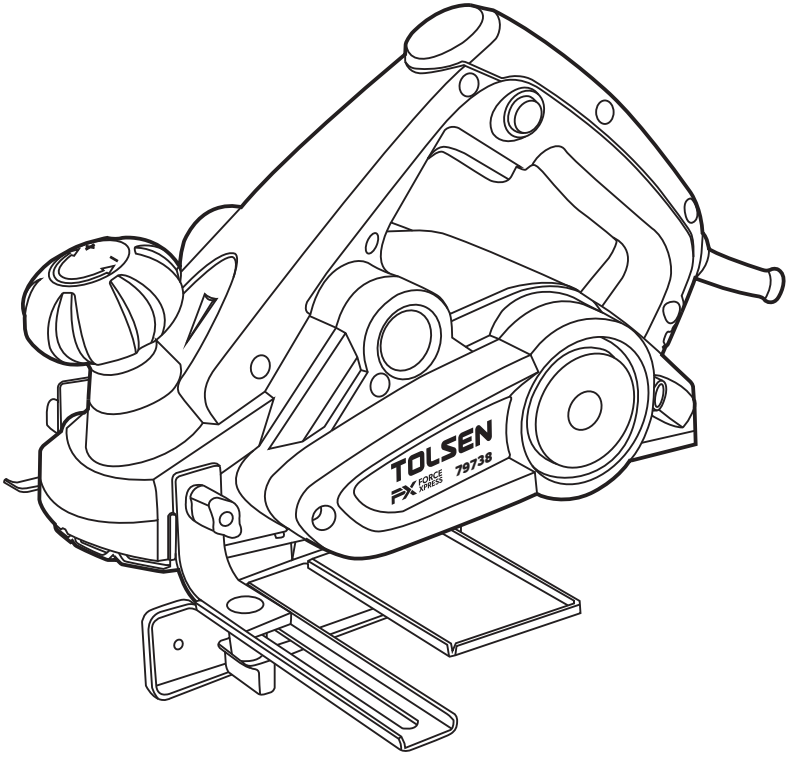
TOLSEN FX FORCE XPRESS

# 79738
# ELECTRIC PLANER

**INSTRUCTION MANUAL** **110-120V~60Hz** **7.5A** **900W**




SAVE THIS MANUAL !
You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

# IMPORTANT SAFETY INFORMATION

**General Power Tool Safety Warnings**

**⚠WARNING**

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference. The term ″ power tool″ in the warnings refers to your mains-operated (corded) power tool.

## Work area safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

## Electrical safety

1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
2. Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
5. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
6. If operating a power tool in a damp location is unavoidable, use a Ground Fault circuit Interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock.

## Personal safety

1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
2. Use personal protective equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
3. Prevent unintentional starting. Ensure the Trigger is in the off-position before connecting to power source, picking up or carrying the tool. Carrying power tools with your finger on the Trigger or energizing power tools that have the Trigger on invites accidents.
4. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of these devices can reduce dust-related hazards.

## Power tool use and care

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the Trigger does not turn it on and off. Any power tool that cannot be controlled with the Trigger is dangerous and must be repaired.
3. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools. check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

## Service

Have your power tool serviced by a qualified repair person using only identical replacement parts.

This will ensure that the safety of the power tool is maintained.

## Planer Safety Warnings

1. Wait for the cutter to stop before setting the tool down. An exposed rotating cutter may engage the surface leading to possible loss of control and serious injury.
2. Hold the power tool by insulated gripping surfaces only, because the cutter may contact its own cord. Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
3. Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
4. Before every use, confirm that both knives are properly aligned and that both knives are secured fully. Start tool off of workpiece and allow tool to reach full speed. • If tool vibrates or becomes noisy SWITCH IT OFF IMMEDIATELY, unplug it and allow it to come to a complete stop. Adjust and tighten knives to correct imbalance. • If vibration or noise persists, do not use tool until inspected and repaired by a qualified technician.
5. Remove all foreign objects, such as nails or metal fragments, from the workpiece before planing.
6. Do not use to plane non-wood materials.
7. Knives are very sharp and are double-edged! Wear heavy-duty leather work gloves at all times when replacing, adjusting or handling a knife.
8. Change both knives at once. Changing knives individually could result in imbalance.
9. Do not unclog dust chute with tool plugged in or blades moving. Do not insert your finger into the dust chute.
10. Connect dust chute to bag or dust collection system (not included) before use. Do not use without a dust bag or dust collection system.
11. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact TOLSEN Tools for a replacement.
12. Avoid unintentional starting. Prepare to begin work before turning on the tool.
13. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
14. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
15. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
16. This product is not a toy. Keep it out of reach of children.
17. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure. In addition, people with pacemakers should: • Avoid operating alone. • Do not use with Trigger locked on. • Properly maintain and inspect to avoid electrical shock. • Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
18. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

## Vibration Safety

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
2. Do not use the power tool if the Trigger does not turn it on and off. Any power tool that cannot be controlled with the Trigger is dangerous and must be repaired.
3. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
5. Maintain power tools. check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
7. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

**⚠ SAVE THESE INSTRUCTIONS**

## Symbology

| | |
|---|---|
|  | Double Insulated |
| **V** | Volts |
| **~** | Alternating Current |
| **A** | Amperes |
| **n0 xxxx/min.** | No Load Revolutions per Minute (RPM) |
|  | **WARNING** marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields. |
|  | Read the manual before set-up and/or use. |
|  | **WARNING** marking concerning Risk of Fire. Do not cover ventilation ducts. Keep flammable objects away. |
|  | **WARNING** marking concerning Risk of Electric Shock. Properly connect power cord to appropriate outlet.. |

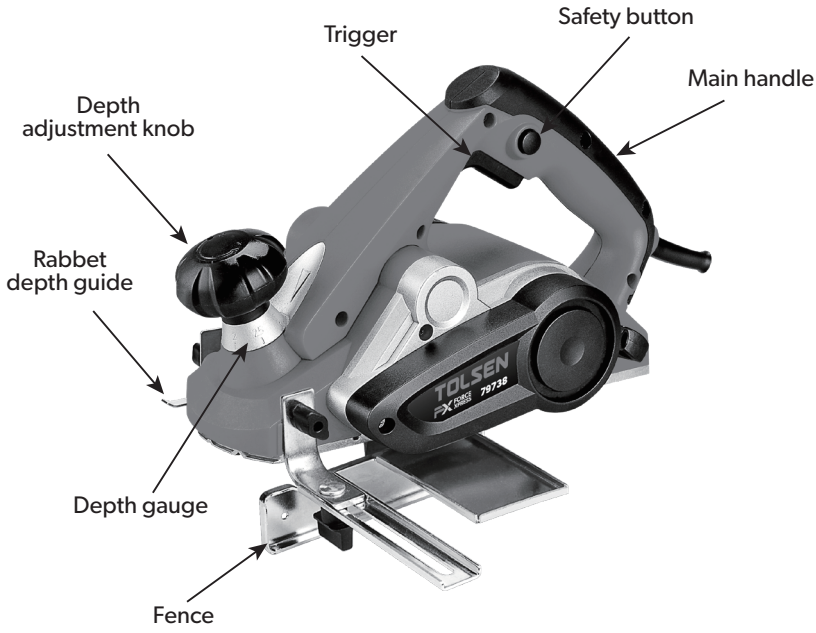
## SPECIFICATIONS

| | |
|---|---|
| Electrical Requirements | 110-120VAC / 60Hz / 7.5A / 900W |
| No load Speed | $n_0$: 16000/min |
| Planing width | 3-1/4" |
| Planing depth | 1/8" |
| Rabbet depth | 0–5/8 " |

## SETUP - BEFORE USE

Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

### Functions



## Operating Instructions

Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

## Tool Set Up

**⚠WARNING**

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:** Make sure that the Trigger is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

## Knife Installation and Adjustment

1. **WARNING!** Before working on the Knives, wear safety goggles and heavy-duty leather work gloves.
2. **WARNING!** Unplug planer and allow Knives to cool completely if used recently.
3. Wearing heavy-duty leather work gloves, rotate the Knife Drum (1) until the Knife Holder (2) and Knife (3) are accessible through the gap between the Base Plates (1, 7) - see Figure A. Note that the heads of the Knife Holder Bolts (4) are facing the Adjustable Base Plate (5).

**Note:** The Adjustable Base Plate has three grooves along its length.

4. Using the provided Wrench (8), turn the Knife Holder Bolts in the direction shown in Figure B to loosen the Knife Holder from the Drum. The Bolts thread into the Knife Holder, thus releasing pressure on the drum and allowing the Knife Holder to be removed. See Figure B.
5. After all Knife Holder Bolts have been completely threaded into the Knife Holder, remove the Knife Holder, Knife and Knife Backing Plate (6) from the Drum. Be careful to not move either of the two Set Screws (5) on the Knife Holder - they keep the Knife in alignment.
6. Clean the exposed slot in the Drum.
7. Carefully slide the old Knife out of the Knife Holder. **CAUTION!** The Knife has two sharp edges. Heavy-duty leather work gloves are required when handling the Knife.
8. Clean the Knife Holder. Carefully examine the Knife Holder for loose parts or signs of damage. Replace if damaged.

**WARNING!** This planer can only use the standard straight knives. Never try to install any other knives on this Planer.

9. Install a new Knife in the Knife Holder. If the old knife is in good condition, the knife can be flipped and the second edge can be used instead. Position the Knife so its groove faces away from the Knife Holder Bolts. See Figure c.
10. Fit the tabs on the Knife Backing Plate (6) into the groove on the Knife. See Figure D.

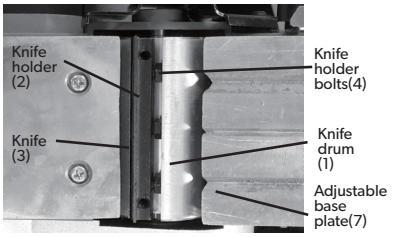



Figure A: knife drum assembly

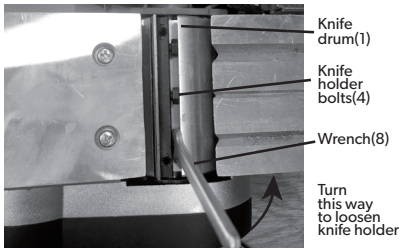



Figure B: loosening the knife holder

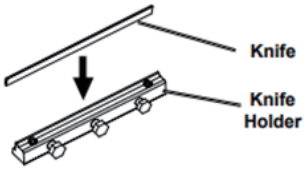



Figure C

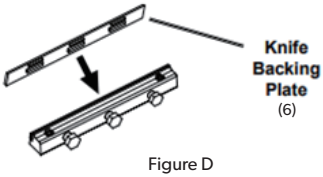



Figure D

11. Insert the entire Knife Holder assembly all the way into the slot in the Drum with the Bolt heads facing the Adjustable Base Plate. Install it in the same orientation as earlier and in the same orientation as the other knife. See Figure E.
12. Turn the three Knife Holder Bolts in the direction shown in Figure F to secure the knife holder assembly in place. Only snug the Bolts for now.
13. Set the Depth Adjustment Knob to "0." Have an assistant hold a straightedge (sold separately) against the bottom of the Rear Base Plate (9). Adjust one Set Screw (5) until the Knife just touches the straightedge on that side - see Figure G. Adjust the other Set Screw until the Knife just touches the straightedge on that side as well.
14. Turn the three Knife Holder Bolts firmly in the direction shown in Figure F to secure the Knife Holder in place.
15. Rotate the Knife Drum 180° and change and replace/adjust the other Knife according to Steps 1 - 13, above.
16. **IMPORTANT!** Carefully double-check that the Knives and Knife Holders are secure and that both Knives are level before use.

**Note:** If a Knife is adjusted to cut farther than the Rear Base Plate it may create burned spots on the wood. If a Knife is adjusted to not cut deeply enough the planer will not be able to travel smoothly across the wood.

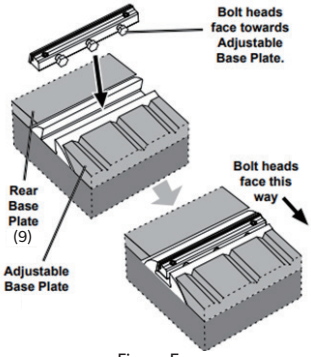


Figure E

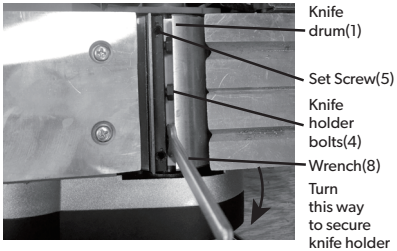


Figure F: Tightening the knife holder

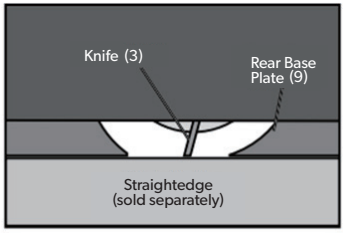


Figure G: Knife set screw adjustment

## Depth Adjustment

The Depth Adjustment Knob controls the depth of the cut for each pass.
- Turn the Knob so that desired setting on the Depth Gauge lines up with the triangle marker on the Front Cover.
- Turn the knob back to the "0" marking after the planer is used.

## Fence Adjustment

The Fence controls the width of the cut from the edge of the workpiece.

1. Insert the Knob (1) through the upper hole in the Angle Bracket (2) and thread it into the hole in the Left Housing. See Figure H.
2. Loosen the Wing Nut (3) and slide the Fence to the desired setting.
3. **IMPORTANT:** Retighten the Wing Nut after adjustment.

**Note:** The markings on the Fence are intended as general guidelines only. For accurate measurements, use a measuring tool to verify the position of the Fence after tightening.

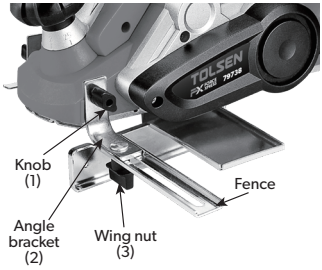


Figure H

## Attaching the Dust Bag

Slip the open end of the Dust Bag around the open end of the Dust Chute .
Note: You can install the Dust Bag on either side of the Planer:
1. If installed, remove the Dust Bag from the Dust Chute.
2. Press the Dust Chute Latch and slide the Dust Chute out of the Planer body.
3. Insert the Dust Chute all the way into the opening on the opposite side of the Planer body so that the Latch snaps into place.
4. Slip the open end of the Dust Bag over the open end of the Dust Chute.

## Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.
5. Remove all foreign objects, such as nails or metal fragments, from the workpiece before planing. Do not use to plane non-wood materials.

## General Operating Instructions

1. Make sure that the Trigger is in the off-position, then plug in the tool.
2. Only use the following cutting head types: standard straight knives (as included)
3. Follow instructions listed in the following sections for specific procedures.
4. While standing to the side of workpiece, hold the Planer firmly with one hand on the main handle and the other hand on the front handle.
5. Set the Planer's Adjustable Base Plate on the front edge of the wood stock. Then, depress the Safety Button and squeeze the Trigger to start the Planer.

WARNING! Confirm that both Knives are properly aligned and that both Knives are secured fully. Start tool off of workpiece and allow tool to reach full speed.

- If tool vibrates or becomes noisy SWITCH IT OFF IMMEDIATELY, unplug it and allow it to come to a complete stop. Adjust and tighten knives to correct imbalance.
- If vibration or noise persists, do not use tool until inspected and repaired by a qualified technician. IMPORTANT: Do not start to move planer across the workpiece until the Knives are spinning at full speed.

6. While pressing the Adjustable Base Plate and the Fence (if used) against the workpiece, feed the Planer slowly until the Rear Base Plate contacts the workpiece. Then, transfer pressure to the Rear Base Plate, and continue planing slowly to the end of the cut. Do not pull the Planer backwards over the surface already cut. Note: As the Planer moves forward across the workpiece, the Kick Stand will rotate out of the way and into the cutout in the Rear Base Plate.
7. If necessary, repeat Step #6, using progressively deeper cuts until the cut nears the desired depth.
8. Adjust the Depth Adjustment Knob to make a light cut for the final pass to help give the workpiece a cleaner finish.
9. The Planer's motor may stall if the tool is used improperly (pressed forward too quickly at too deep a planing depth). If the motor begins to stall, reduce the cut speed and/or cut depth.
10. When finished planing, carefully lift the planer from the workpiece and release the Trigger. The Kick Stand will automatically rotate out of the Rear Base Plate. Wait until the Knife Drum comes to a complete stop and set the Planer down so it is supported by the Adjustable Base Plate and the Kick Stand. Then unplug the Planer and turn the Depth Adjustment Knob to the "0" setting.
11. Clean, then store the tool indoors out of children's reach.

## Rabbeting

Rabbeting is creating a step on the edge of a workpiece. Rabbeting is typically used in door and window jambs. When rabbeting, the Rabbet Depth Gauge will contact the unplaned portion of the workpiece and help prevent planing too deeply.

1. Carefully set the Rabbet Depth Gauge (2) to the desired rabbet depth. Use a straightedge (sold separately) to adjust the Rabbet Depth Gauge to the desired distance from the Rear Base Plate, see Figure I. Tighten the Knob (1) securely after adjustment.
2. Set the Fence to determine the width of the rabbet cut.
3. With the Rabbet Depth Gauge positioned over the unplaned portion of the board. Plane the board using multiple passes, if needed. The Rabbet Gauge presses against the unplaned portion of the board and helps the planer cut only to the specified depth.

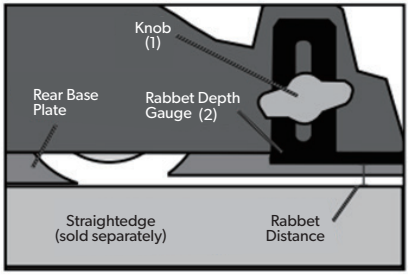
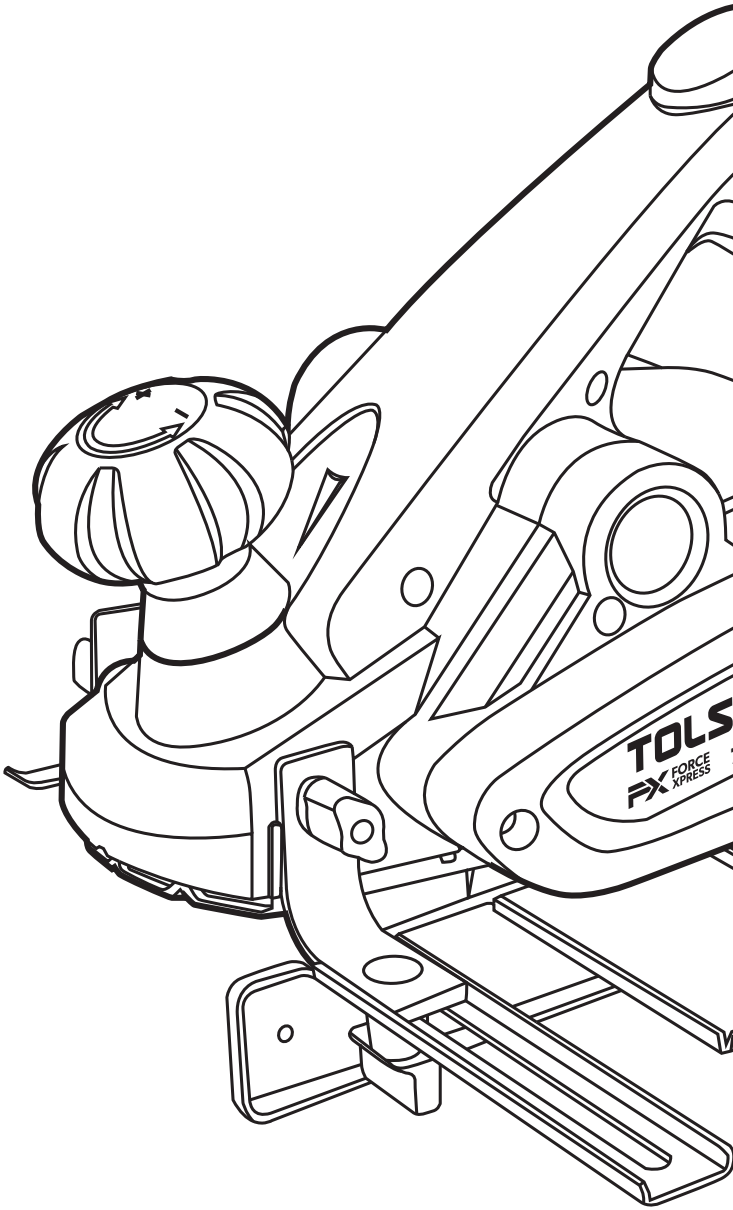



Figure I: Setting the rabbet depth

## TROUBLESHOOTING

| Problem | Possible Causes | Likely Solutions |
|---|---|---|
| Tool will not start | 1. Cord not connected.<br>2. No power at outlet.<br>3. Tool's thermal reset breaker tripped (if equipped).<br>4. Internal damage or wear. (Carbon brushes or Trigger, for example.) | 1. Check that cord is plugged in.<br>2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads.<br>3. Turn off tool and allow to cool. Press reset button on tool.<br>4. Have technician service tool |
| Tool operates slowly. | 1. Forcing tool to work too fast.<br>2. Extension cord too long or cord diameter too small. | 1. Allow tool to work at its own rate.<br>2. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. |
| Motor runs, but tool does not plane (Knife Drum does not revolve). | Belt is damaged or broken. | Replace Belt. |
| Performance decreases over time. | 1. Carbon brushes worn or damaged.<br>2. Blade dull or damaged. | 1. Have qualified technician replace brushes.<br>2. Keep blades sharp. Replace as needed. |
| Excessive noise or rattling. | 1. Internal damage or wear. (Carbon brushes or bearings, for example.)<br>2. Belt is worn, stretched or broken. | 1. Have technician service tool.<br>2. Replace Belt. |
| Overheating. | 1. Forcing tool to work too fast.<br>2. Blade dull or damaged.<br>3. Blocked motor housing vents.<br>4. Motor being strained by long or small diameter extension cord. | 1. Allow tool to work at its own rate.<br>2. Keep blades sharp. Replace as needed.<br>3. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.<br>4. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. |

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

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