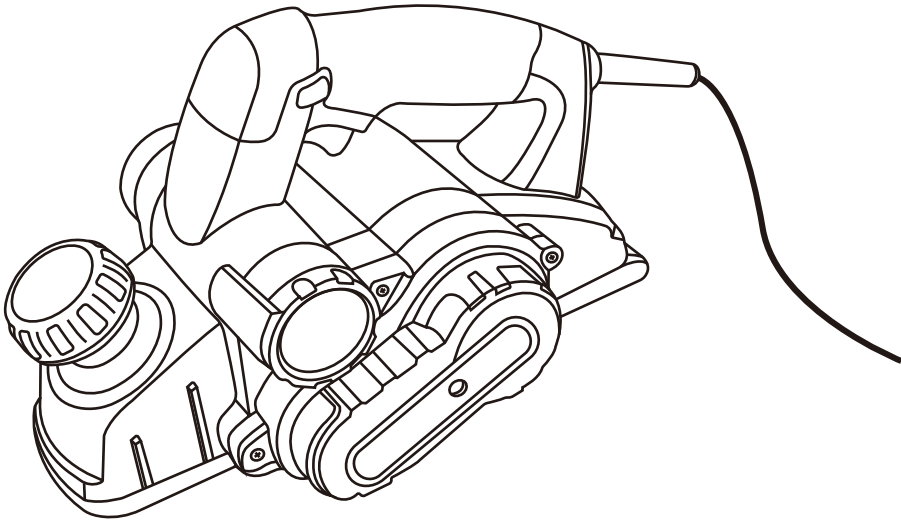
WOODSTARTER



# Electric Hand Planer

HP15K

## USER MANUAL V 1.0

*Please read carefully before use. Please keep it for future reference.

# Content

# Safety Precautions

## GENERAL SAFETY RULES

1. Avoid Dangerous Conditions: Do not operate power tools in wet or damp areas, and keep them away from rain. Ensure that your work area is well-lit, clean, and free of clutter. Avoid working on surfaces that are slippery due to sawdust or wax.
2. Stay Away from Flammable Materials: Refrain from using power tools in environments where flammable liquids or gases are present.
3. Maintain Safe Distances: Keep bystanders at a safe distance from the work area, especially while the tool is in use. Never allow children or pets to approach the tool.
4. Use Tools Correctly: Do not force the tool to perform tasks for which it was not designed.
5. Dress for Safety: When operating the tool, avoid wearing loose clothing, gloves, ties, or jewelry (such as rings and watches) that could get caught in moving parts. Always wear non-slip footwear and secure long hair.
6. Wear Protective Gear: Always use a face mask or dust mask to guard against sawdust produced during operations. Use safety goggles that meet ANSI Z87.1 standards, as standard safety glasses do not provide adequate protection. During extended use, wear hearing protection such as plugs or muffs.
7. Disconnect Power: Always unplug the power cord from the electrical outlet when making adjustments, changing parts, cleaning, or servicing the tool.
8. Maintain Guards: Ensure that all guards are properly installed and functioning.
9. Prevent Accidental Start-Ups: Before plugging in the power cord, confirm that the power switch is in the OFF position.
10. Avoid Standing on Tools: Never stand on the tool, as this can lead to serious injury if it tips over or is accidentally struck. Do not store items above or near the tool.
11. Maintain Proper Balance: Avoid overreaching; keep your footing and balance steady at all times. Wear oil-resistant rubber-soled footwear and keep the floor clear of oil, debris, and other hazards.

11. Perform Regular Maintenance: Keep tools clean and in good working order at all times. Follow the manufacturer's instructions for lubrication and changing accessories.
12. Inspect for Damage: Regularly check for proper alignment of moving parts, jamming, breakage, improper mounting, or any other conditions that may affect the tool's operation. Repair or replace any damaged parts before use.
13. Operate Sober: Do not use the tool if you are under the influence of drugs, alcohol, or medication that may impair your ability to operate it safely.

## SPECIFIC RULES FOR THE PLANER

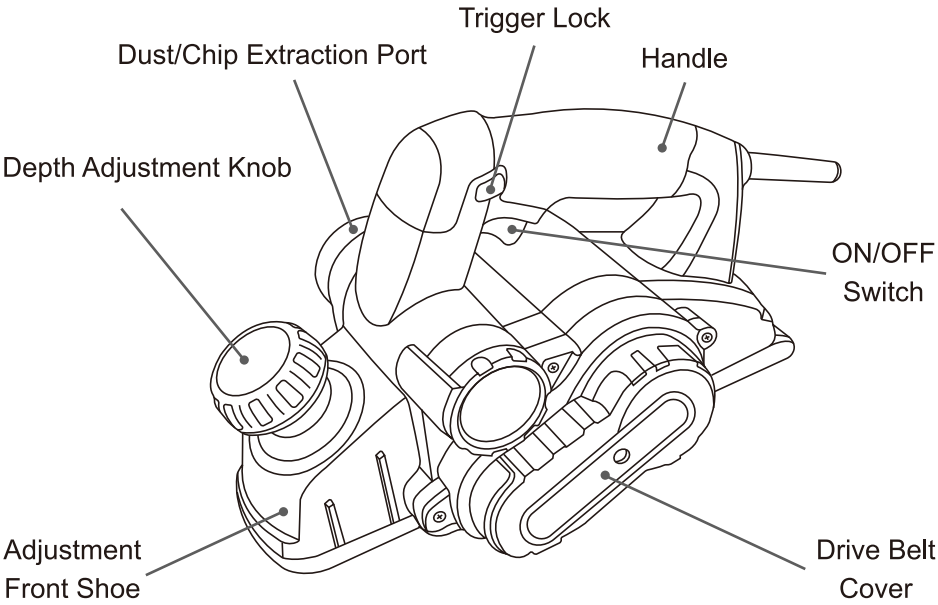
1. Wait for the Cutter to Stop: Always allow the cutter to come to a complete stop before setting the tool down. An exposed rotating cutter may engage the surface, leading to a loss of control and serious injury.
2. Use Insulated Gripping Surfaces: Hold the power tool only by insulated gripping surfaces, especially if the cutter contacts its own cord. Cutting a "live" wire may energize exposed metal parts of the tool, posing a risk of electric shock.
3. Secure the Workpiece: Always secure the workpiece to a stable platform using clamps or another reliable method. Avoid holding the workpiece by hand or against your body, as this can lead to instability and loss of control.
4. Stabilize Material: Ensure that the material being planed is firmly secured and never held in your hand or across your legs. Small workpieces must be adequately secured to prevent the rotating planer blades from picking them up during operation. Unstable support can cause the blades to bind, resulting in loss of control and potential injury.
5. Start the Planer Properly: Always start the planer before the blade makes contact with the workpiece. Allow the blade to reach full speed before beginning to cut, as operating at low speeds can cause vibration, chatter, or kickback.
6. Check for Nails: Inspect the workpiece for nails. Remove any nails or set them below the intended finished surface. If the planer blades strike nails, it may result in serious injury from kickback.
7. Unplug Before Changing Accessories: Always unplug the planer before changing accessories to prevent accidental start-ups. Check that the trigger lock is OFF before plugging the tool back in.

8. Inspect Blade Alignment: After changing blades, rotate the blade cylinder (cutter drum) to ensure that the blades do not contact any part of the blade head housing and that the blade locking screws are tight. Loose or misaligned blades can strike the tool housing, causing damage and potential injury.
9. Maintain a Firm Grip: Always hold the tool firmly with both hands for maximum control.
10. Avoid Pulling Backwards: Never pull the planer backwards over the workpiece, as this can lead to a loss of control.
11. Avoid Contact with the Chip Ejector: Do not insert fingers or objects into the chip ejector, and refrain from cleaning out chips while the tool is running. Contact with the blade drum can cause injury.
12. Disconnect Power Before Cleaning: Always remove the plug from the power source before removing chips. The blades are hidden from view, and you risk injury if you accidentally contact them.
13. Use Personal Protection Devices: Employ GFCI and personal protective equipment, such as electrician's rubber gloves and footwear, to enhance safety.
14. Establish a Maintenance Schedule: Develop a regular maintenance schedule for your tool. When cleaning, avoid disassembling any part of the tool to prevent misplacing or pinching internal wires, and ensure safety guard return springs are properly mounted.
15. Avoid Harmful Cleaning Agents: Be cautious with cleaning agents such as gasoline, carbon tetrachloride, and ammonia, as they may damage plastic parts.

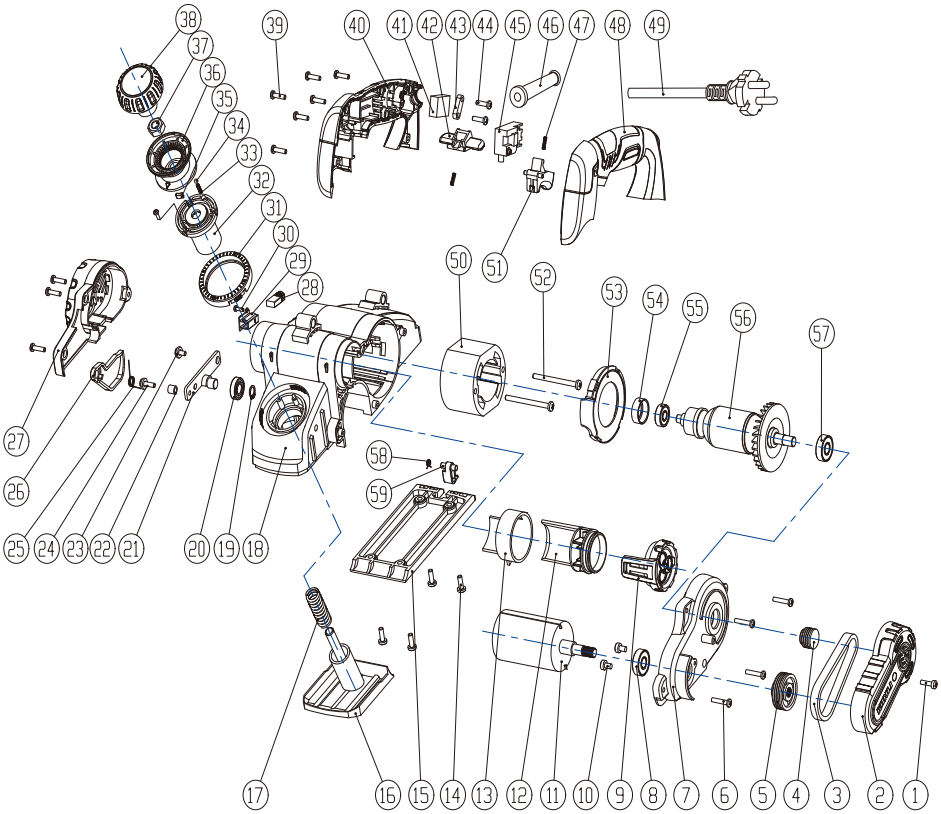
# Specification

| | |
|---|---|
| Model | HP15k |
| Motor | 120V-60Hz-7.1A |
| Non load speed | 15,000 RPM |
| Cutting width | 3-1/4'' |
| Cutting depth | 1/6'' |
| Rabbeting depth | 1'' |
| Weight | 7.3 lbs |

# Part List



# Part Description



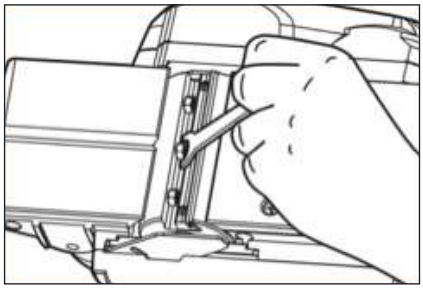
| Serial NO. | Parts Name | QTY. |
|---|---|---|
| 1 | screw M4*14 spring washer | 1 |
| 2 | belt cover | 1 |
| 3 | belt | 1 |
| 4 | big belt wheel | 1 |
| 5 | small belt wheel | 1 |
| 6 | ST4.2x22 screw | 4 |
| 7 | side cover | 1 |
| 8 | 6000 Deep groove ball bearing | 1 |

| Serial NO. | Parts Name | QTY. |
|---|---|---|
| 9 | ventilation hood cover | 1 |
| 10 | M4*8 screw | 2 |
| 11 | Knife shaft components | 1 |
| 12 | Ventilation hood | 1 |
| 13 | dust out | 1 |
| 14 | ST5x14 screw | 4 |
| 15 | rear base plate | 1 |
| 16 | front base plate | 1 |
| 17 | front base plate spring | 1 |
| 18 | housing | 1 |
| 19 | circlip for spindle 10 | 1 |
| 20 | deep groove ball bearing 6900 | 1 |
| 21 | flat shaft | 1 |
| 22 | flat washer Φ5*Φ10*0.5 | 2 |
| 23 | steel bushing 5*8*8 | 1 |
| 24 | screw ST4.2x10 | 1 |
| 25 | guard plate spring | 1 |
| 26 | guard plate | 1 |
| 27 | rear cover | 1 |
| 28 | carbon brush | 2 |
| 29 | brush holder | 2 |
| 30 | screw ST3x10 | 7 |
| 31 | dial | 1 |
| 32 | guide seat | 1 |
| 33 | gear spring | 1 |
| 34 | steel ball Φ4 | 1 |

| Serial NO. | Parts Name | QTY. |
|---|---|---|
| 35 | Adjustment block | 1 |
| 36 | Hand wheel | 1 |
| 37 | Three-wire hexagon nut | 1 |
| 38 | Hand wheel cover | 1 |
| 39 | Screw ST4.2x16 | 7 |
| 40 | Right handle | 1 |
| 41 | Capacitance | 1 |
| 42 | Switch lock knob | 1 |
| 43 | Cable plate 24*8*4 | 1 |
| 44 | Screw ST4.2x12 | 6 |
| 45 | Swtich | 1 |
| 46 | Cable sleeve 8*80 | 1 |
| 47 | Lock knob spring | 2 |
| 48 | Left handle | 1 |
| 49 | Cable | 1 |
| 50 | Stator | 1 |
| 51 | Swtich knob | 1 |
| 52 | Screw ST5x60 | 2 |
| 53 | Wind guide | 1 |
| 54 | Bearing sleeve | 1 |
| 55 | Deep groove ball bearing 608 | 1 |
| 56 | Rotor | 1 |
| 57 | Deep groove ball bearing 6000 | 1 |
| 58 | Base plate stand spring | 1 |
| 59 | Stand | 1 |

# Assembly and Adjustments

## REMOVING OR INSTALLING PLANER BLADES



1. Disconnect the planer from the power source.
2. Loosen all clamping screws using the supplied wrench.
3. Remove the blade.
4. Clear all chips and debris from the blade drum and blade.
5. Reverse the blade if one edge is dull; if both edges are dull, replace it with a new blade.
6. Insert the good blade face up into the drum's blade retainer, ensuring the ridge is opposite the clamping screws.
7. Tighten the clamping screws evenly.
8. Repeat for the second blade, ensuring both blades are at the same cutting level and centered in the drum to avoid a rough and uneven surface.

**CAUTION:** Tighten all clamping screws carefully when attaching the blades to the planer. A loose clamping screw can be extremely dangerous. Check regularly to see that they are tightened securely.

**NOTICE:** Always change both blades at the same time. Use blades of the same dimensions and weight. Otherwise, the resulting imbalance can cause vibration and poor planing action while shortening the life of the blade and the tool.

**NOTICE:** Your planed surface will end up rough and uneven unless the blades are properly and securely set. The blades must be mounted so that the cutting edge is absolutely level (parallel to the surface of the rear shoe).

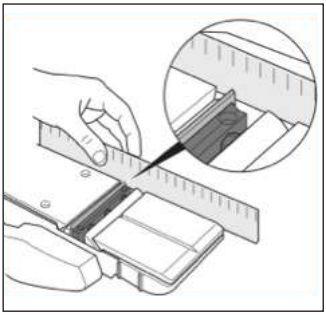
## BLADE ALIGNMENT

To ensure an even cut, align the blade with the outside edges of the front and rear shoes as follows:

1. Place a straight edge or a piece of wood along the outer surfaces of the front and rear shoes. Adjust the planer blade to just contact the straight edge or wood.

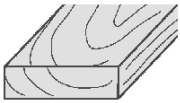
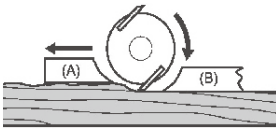
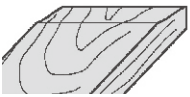
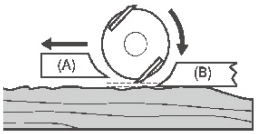
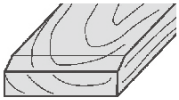
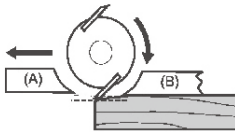
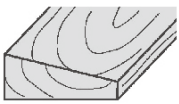
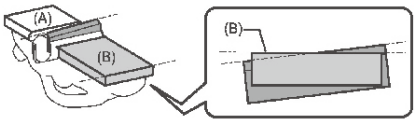
2. Verify that the blade is properly seated in the holder groove of the cutter drum.

3. Tighten the clamping screws to secure the blade, and then you can use your planer.



## FOR THE CORRECT BLADE SETTING

Your planing surface will end up rough and uneven, unless the blade is set properly and securely. The blade must be mounted so that the cuting edge is absolutely level, that is, parallel to the surface of the rear base.
Refer to some examples below for proper and improper settings.

| Planing Surface | Blade Setting | Cause |
|---|---|---|
| Correct Setting  |   | Although this side view cannot show it, the edge of the blades run perfectly parallel to rear base surface. |
| Gouging at start  |   | Both blade edgas fails to protrude enough in relation to rear base line. |
| Gouging at end  |   | One or both blade edges protrude too far in relation to rear base line. |
| Aslope in surface  |   | One or both blades fails to have edge parallel to rear base line. |
| (A): Front base (Movable shoe)<br>(B): Rear base (Statlonary shoe) | | |

## ADJUSTING THE DEPTH OF CUTTING

**CAUTION:** Always ensure that the tool is switched OFF and unplugged from the power supply before making adjustments or installing or removing blades. Wait until the blades come to a complete stop before adjusting the depth of the cut.

1. Disconnect the planer from the power source.
2. Rotate the depth adjustment knob clockwise for a deeper cut or counter-clockwise for a shallower cut.

The minimum cutting increment is 1/128” (0.2 mm).

**Note:** If it is necessary to accurately determine the depth of cut, plane a scrap piece of wood, measure the difference in thickness and adjust the settings accordingly.

**CAUTION:** Always ensure that the number on the ring is at the “0” position when the tool is not in use. At this position, the blade cannot cut the workpiece.

## PARALLEL FENCE

**CAUTION:** Always verify that the tool is switched off and unplugged from the power supply. Wait for the blades to come to a complete stop before installing or adjusting the parallel fence.

1. Disconnect the planer from the power source.
2. Use the bracket fixing knob to secure the parallel fence bracket to the left side of the planer.
3. Slide the parallel fence onto the bracket and position it to the desired width.
4. Lock the parallel fence in place using the fence knob and coach bolt.

## RABBETING DEPTH GAUGE

**CAUTION:** Always verify that the tool is switched off and unplugged from the power supply. Wait for the blades to come to a complete stop before installing or adjusting the parallel fence.

1. Ensure the planer is disconnected from the power source.
2. Use the depth gauge knob to attach the rabbeting depth gauge to the right side of the planer.

3. Adjust the depth gauge to your desired rabbeting depth by loosening the knob, positioning it, and then retightening the knob.
4. The rabbeting will reach the correct depth when the depth gauge makes contact with the unplanned section of the workpiece on the right side of the tool.

**NOTICE:** The depth gauge is intended for approximate settings only. For exact measurements, rabbet a scrap piece of wood, measure the depth, and make any necessary adjustments.

### SWITCHING ON AND OFF

**CAUTION:** Before plugging the machine into the power supply, always check that the trigger switch and trigger lock work properly.

The tool features a trigger lock to prevent unintentional start-ups. To turn on the planer, press and lift the trigger lock, then squeeze the trigger switch. To turn it off, simply release the trigger switch.

## Operation

### PLANING

1. Ensure the workpiece is securely held on your work surface. Grip the planer firmly with both hands, resting the front shoe flat on the workpiece without allowing the blades to contact it.
2. Turn on the tool and wait for the blades to reach full speed.
3. Gently move the tool forward, applying pressure at the front during the initial phase of planing and at the rear toward the end of the stroke.
4. Push the planer beyond the edge of the workpiece without tilting it downward.

**NOTICE:** For easier planing, incline the workpiece slightly away from you to plane “downhill.” The quality of the finish is influenced by the planing rate and cut depth. Increase the cut depth for rough cutting, but reduce it for a better finish while advancing the tool more slowly.

**NOTICE:** Moving the machine too quickly may result in poor cut quality and can damage the blades or motor. Conversely, moving too slowly can burn or mar the cut. The proper feed rate depends on the material type and cut depth. Practice on a scrap piece to determine the correct feed rate and cutting dimensions.

**CAUTION:** The motor may stall if improperly used or overloaded. Reduce the pressure (feed rate) or depth of cut to prevent possible damage to the tool if the motor labors.

## TOOL PARK REST

The park rest is designed to swing down, preventing the blade from contacting the work surface when the planer is not used. Additionally, the tool's park rest automatically swings up and out of the way when the back of the planer crosses the leading edge of the workpiece.

## CHAMFERING

1. Set the desired cut depth.
2. Position the “V” groove on the front adjustable shoe over the edge to be beveled, ensuring the blades do not contact the workpiece. Apply weight on the depth adjustment knob to keep the “V” groove flat against the edge.
3. Firmly grip the tool with both hands, turn it on, and push the planer forward, applying steady pressure on the front adjustable shoe.

# Maintenance

1. CARBON BRUSHES: The brushes in your tool are designed for extended and reliable service. We recommend checking the brushes every two to six months to ensure optimal motor performance.
2. TOOL LUBRICATION: Your tool has been adequately lubricated and is ready for use. It is advisable to reapply a specialized gear lubricant to tools with gears during each brush change.
3. CLEANING: Keep ventilation openings and switch levers clean and free from debris. Avoid using pointed objects to clean these components by inserting them through openings.
4. BEARINGS: If bearings become noisy due to heavy loads or cutting through abrasive materials, they should be replaced promptly to prevent overheating or motor damage.

**WARNING:** Certain cleaning agents and solvents can harm plastic components. Examples include gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia, and household detergents that contain ammonia.

**WARNING:** To prevent accidents, always unplug the tool from the power source prior to cleaning or conducting any maintenance. The most effective method for cleaning the tool is with compressed dry air. Always wear safety goggles when using compressed air for cleaning.

# Warranty Information

WOODSTARTER offers a one-year warranty along with lifetime technical support to ensure your satisfaction. For any inquiries or feedback, please contact our team at support@woodstarter.com or visit our support page at www.woodstarter.com for assistance.

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EMPOWERING
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If you need any assistance, please contact us via:

Email: support@woodstarter.com

www.woodstarter.com

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