# Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 22k

Bauer™

1621E-B

## 12-1/2" PORTABLE THICKNESS PLANER


**Visit our website at: http://www.harborfreight.com**
**Email our technical support at: productsupport@harborfreight.com**

**63445**

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.



## ⚠WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

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SAFETY

SETUP

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MAINTENANCE

| WARNING SYMBOLS AND DEFINITIONS | |
|---|---|
| ⚠ | This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death. |
| ⚠DANGER | Indicates a hazardous situation which, if not avoided, will result in death or serious injury. |
| ⚠WARNING | Indicates a hazardous situation which, if not avoided, could result in death or serious injury. |
| ⚠CAUTION | Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. |
| *NOTICE* CAUTION | Addresses practices not related to personal injury. |

# IMPORTANT SAFETY INFORMATION

## General 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.**

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

| Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT) | | | | |
|---|---|---|---|---|
| **NAMEPLATE AMPERES (at full load)** | **EXTENSION CORD LENGTH** | | | |
| | **25′** | **50′** | **100′** | **150′** |
| 0 – 6 | 18 | 16 | 16 | 14 |
| 6.1 – 10 | 18 | 16 | 14 | 12 |
| 10.1 – 12 | 16 | 16 | 14 | 12 |
| 12.1 – 16 | 14 | 12 | **Do not use.** | |

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. DON'T OVERREACH. Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.

17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

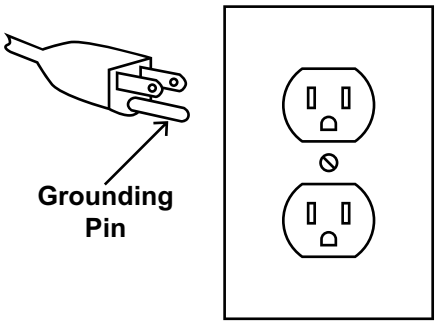
## Grounding Instructions

**⚠WARNING**

**TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:**

# 110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.




**125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15 A)**

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

# Tool Safety Warnings

**For Your Own Safety Read Instruction Manual Before Operating Tool**

1. Remove all foreign objects, such as nails or metal fragments, from the workpiece before planing.
2. Do not use to plane non-wood materials.
3. Do not plane workpieces shorter than 15", narrower than 3/4", wider than 12-1/2" or less than 1/8" thick.
4. Blades are very sharp and are double-edged! Wear heavy-duty leather work gloves at all times when replacing, adjusting, or handling a blade.
5. Change both knives at once. Changing knives individually could result in imbalance.
6. Do not unclog dust chute with tool plugged in or blades moving. Do not insert your finger into the dust chute.
7. Connect dust chute to bag or dust collection system (not included) before use. Do not use without a dust bag or dust collection system.
8. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
9. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
10. When servicing use only identical replacement parts.
11. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

12. 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.
13. Industrial applications must follow OSHA guidelines.
14. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
15. Avoid unintentional starting. Prepare to begin work before turning on the tool.
16. 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.
17. 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

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Use tools with the lowest vibration when there is a choice between different processes.
4. Include vibration-free periods each day of work.
5. Grip workpiece as lightly as possible (while still keeping safe control of it). Let the tool do the work.
6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

**SAVE THESE INSTRUCTIONS.**

## Specifications

| | |
|---|---|
| Electrical Rating | 120VAC / 60Hz / 15A |
| Motor No Load Speed | $n_0$: 17500/min |
| Maximum Cutting Depth | 3/32" |
| V-Belt | 135J |

## Setup - Before Use:

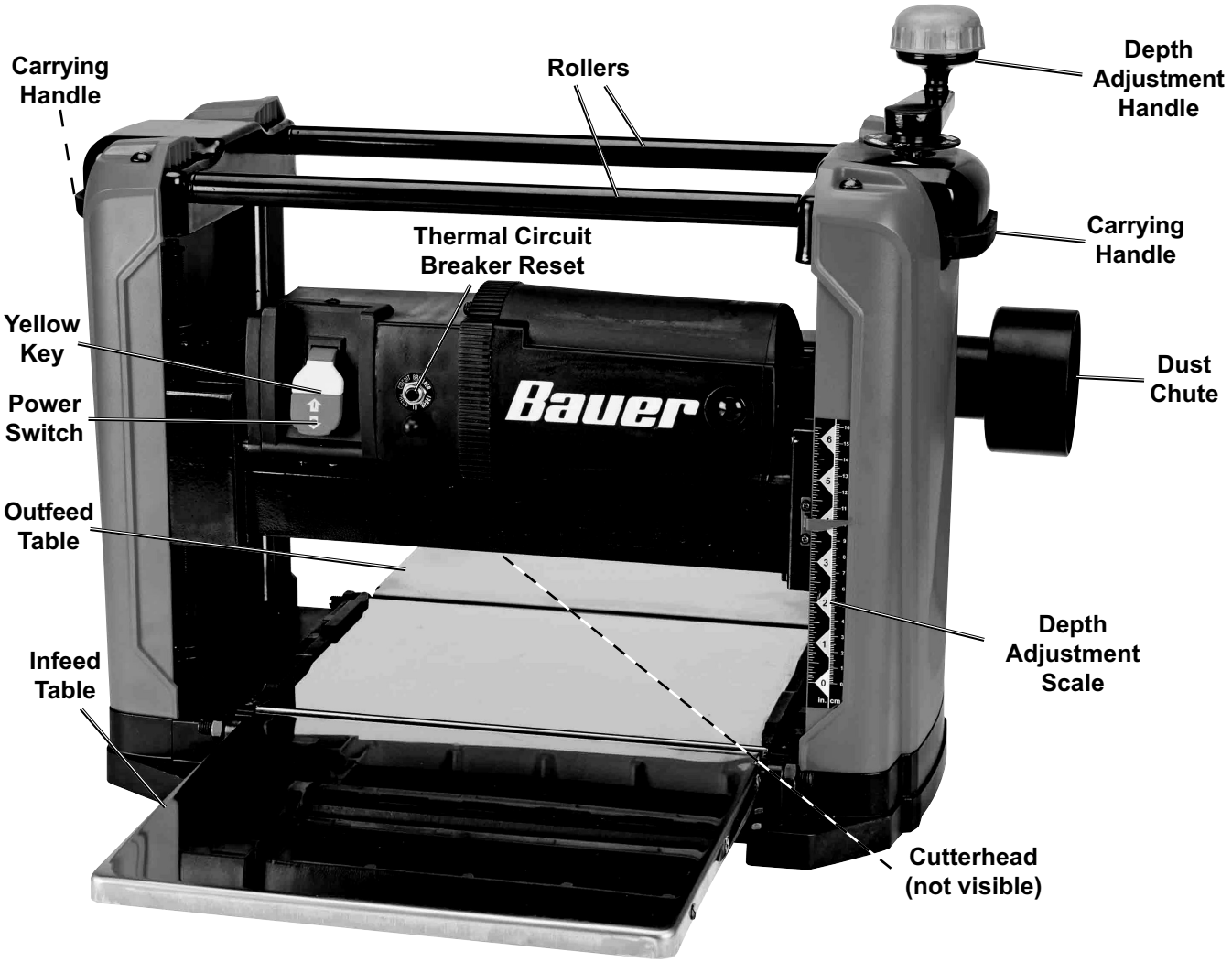
**Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.**

## ⚠WARNING

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**
**Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.**

**Note:** For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

# Functions




**Power Switch Positions**


**Off**


**On**


**Locked**

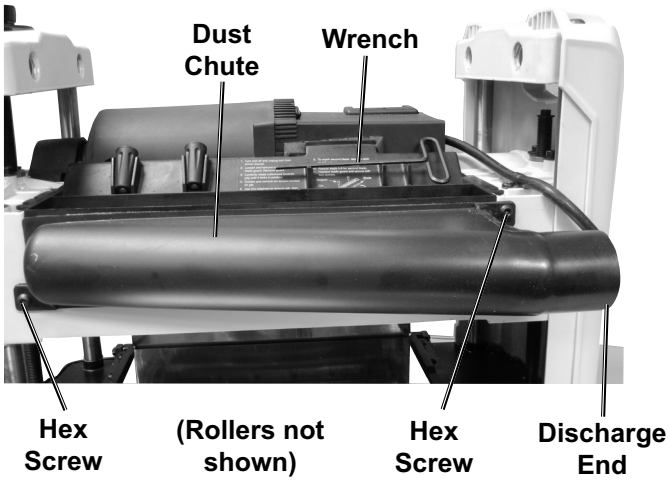
# Assembly/Mounting

**CAUTION! Transport Planer using Carrying Handles only, do not lift with Rollers.**

## Installing Dust Chute

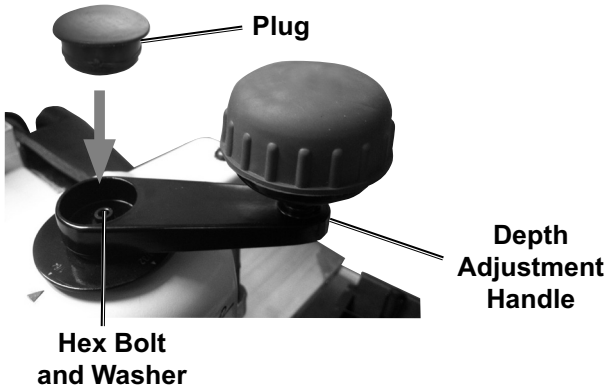
**Note:** Dust Chute may be installed in either left or right discharge direction.

1. Using included Wrench, attach Dust Chute to back of Planer with two Hex Screws.
2. Attach dust collection system to discharge end.




## Attaching Handle

1. Using included Wrench, attach Depth Adjustment Handle to top of right Carrying Handle with Hex Bolt and Washer.
2. Insert Plug into opening to cover hardware.

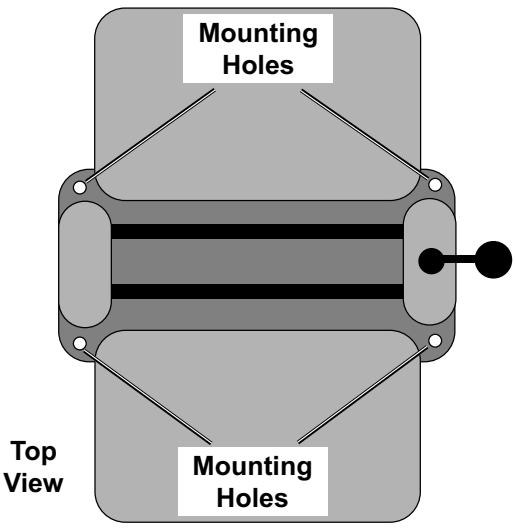



## Mounting

**WARNING! TO PREVENT SERIOUS INJURY: Attach Planer securely to solid and level surface that can support weight of Planer and workpiece, with enough clearance for movement of workpiece.**

**Note:** Verify that mounting surface has no hidden components before drilling or driving bolts.

1. Use base to mark mounting holes on mounting surface.
2. Mount base to mounting surface using appropriate hardware (sold separately).



**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

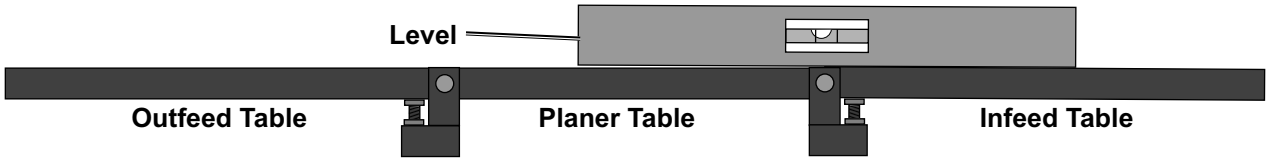
## ⚠WARNING

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**
**Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.**

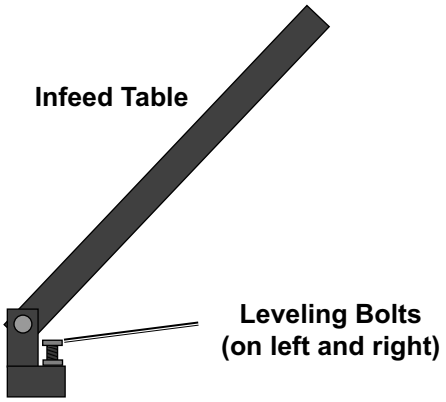
**TO PREVENT SERIOUS INJURY:**
**DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.**

### Leveling Table Extensions

1. Place a level (sold separately) across Planer Table and Infeed Table, then check level.




2. Adjust as needed by lifting Infeed Table and adjusting Leveling Bolts beneath it.
3. Repeat with Outfeed Table.



# 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. There must not be objects, such as utility lines, nearby that will present a hazard while working.

# General Operating Instructions

**WARNING! TO PREVENT SERIOUS INJURY FROM HAZARDS SUCH AS KICKBACK:**
**Do not plane workpieces shorter than 15", narrower than 3/4", wider than 12-1/2", or less than 1/8" thick.**
**Use only natural dry woodstock which is free from nails, staples, knots, etc.**
**Feed into Planer in line with the grain.**
**Do not plane wood that is twisted, warped, knotted or bowed.**

**Note:** If one side of workpiece is uneven, plane with flat side down first. If both sides are uneven, run one side through a jointer to flatten it before planing.

**Note:** Use Depth Adjustment Scale as a reference to indicate thickness of finished workpiece.

**Note:** Practice on scrap material until familiar with Planer's capabilities.

1. Make sure dust collection system is in place.
2. Make sure Power Switch is in the off-position.
3. Plug in Planer.

**Note:** Use calipers to measure workpiece.

4. Place workpiece on Planer Table, then turn Depth Adjustment Handle *counterclockwise* to lower Cutterhead until it just touches workpiece.

**WARNING! To prevent serious injury, do not turn Planer on with workpiece under Cutterhead.**

5. Remove workpiece, then turn Depth Adjustment Handle *counterclockwise*. One full turn will remove 1/16" of material.

**NOTICE: Do not remove more than 3/32" of material at one time (1-1/2 turns of Depth Adjustment Handle).**

**NOTICE: Keep long workpieces level by supporting them on both ends of Planer with stands or by other means.**

6. Turn on Planer by lifting the Power Switch up.
7. After Cutterhead has reached full speed, slowly guide workpiece into Planer until Infeed Roller takes control. Workpiece will auto feed through Planer, do not push on workpiece once it starts autofeeding.

**WARNING! To prevent serious injury from kickback, stand on side nearest the switch and to the side.**

**WARNING! TO PREVENT SERIOUS INJURY:**
**Keep hands out from underneath Cutterhead.**

8. Retrieve workpiece from Outfeed side.

**Note:** If using assistant, Rollers may be used to transport workpiece from Outfeed to Infeed.

**Note:** If one or both ends of workpiece have a deeper cut, the problem may be snipe.
**See Troubleshooting on page 13** for a solution.

**Snipe**

9. Continue to remove material until desired thickness is achieved.

**NOTICE:** To prevent damage from clogging, empty dust collection system frequently.

10. To prevent accidents, turn off tool, lock by removing yellow key from Power Switch, and unplug tool from its electrical outlet after use. Clean and lubricate according to **Maintenance and Servicing on page 11,** then store tool indoors out of children's reach.

## Replacing Blades

1. Turn Planer off and unplug from its electrical outlet.
2. Using included Wrench, loosen Hex Screws on Dust Chute, then Remove two Hex Screws on Blade Guard. Remove Blade Guard.

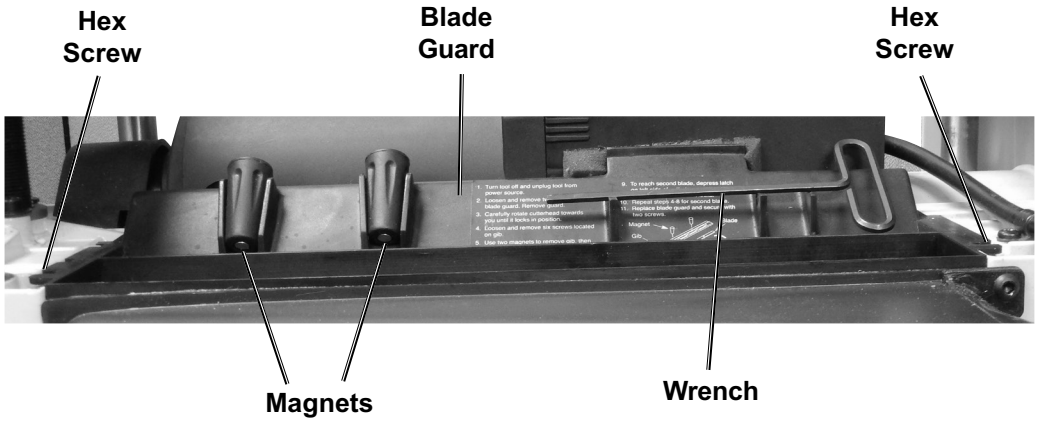



**Figure A: Blade Guard Location**

**CAUTION!** Blades are very sharp and are double-edged! Wear heavy-duty leather work gloves at all times when handling a blade.

3. Wearing gloves, rotate Cutterhead toward you until it locks into place.
4. Remove six Hex Screws on Gib, then using Magnets **(see Figure A)**, remove Gib.

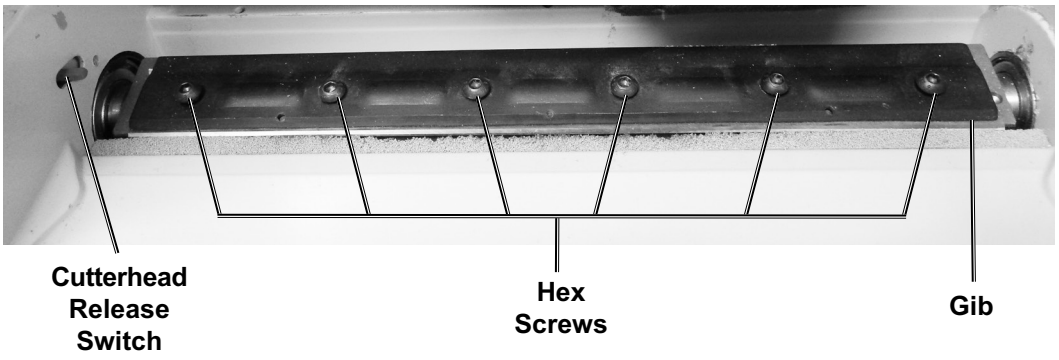
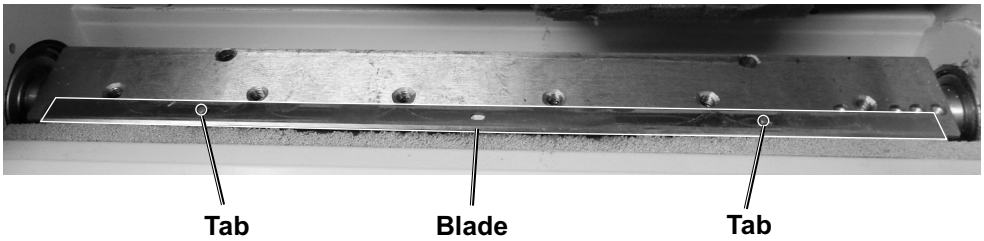



**Figure B: Hex Screw Location**

**CAUTION!** Change both Blades at the same time. Changing Blades individually could result in imbalance.

5. Using Magnets, remove Blade, rotate or replace, placing holes over Tabs.




6. Replace Gib and six Hex Screws, **tighten Screws securely.**
7. Push Cutterhead Release Switch **(see Figure B)** forward to allow rotation to the second Blade. Repeat steps 4 through 6.
8. Replace Blade Guard and two Hex Screws, then tighten Dust Chute.

**Procedures not specifically explained in this manual must be performed only by a qualified technician.**

## ⚠WARNING

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**
**Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.**

**TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:**
**Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.**

# Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware,
   - misalignment or binding of moving parts,
   - cracked or broken parts,
   - damaged electrical wiring, and
   - any other condition that may affect its safe operation.
2. **PERIODICALLY,** wear ANSI-approved safety goggles and NIOSH-approved breathing protection and blow dust out of the motor vents using dry compressed air.
3. **⚠WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

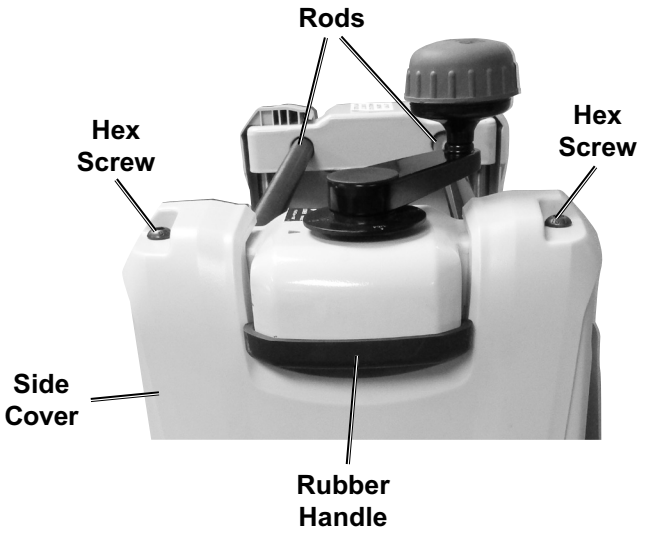
## Cleaning

**AFTER USE:**

a. Wear ANSI-approved safety goggles and NIOSH-approved breathing protection, blow debris from Planer using dry compressed air.
b. Remove resin residue with pitch and gum remover.
c. Empty dust collection system.
d. Wipe external surfaces with clean cloth.
e. Wax tables.

# Internal Maintenance

1. Using allen wrench (not included), remove Hex Screws on Side Cover.
2. Remove Rubber Handle, Side Cover and Rods.

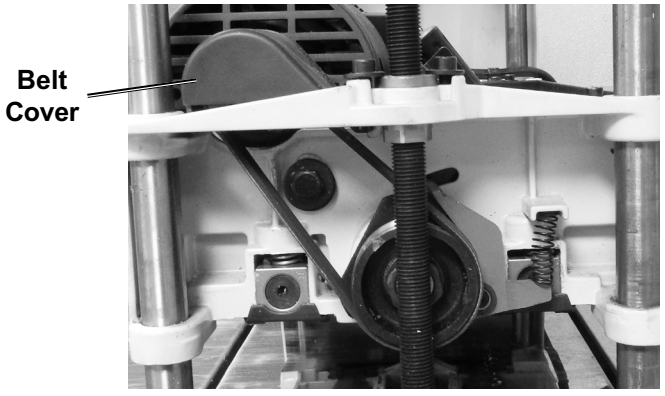



## Lubrication

1. **Elevation Screws and Columns**
   a. Remove both Side Covers.
   b. Clean Elevation Screws and Columns.
   c. Lubricate with a light coating of multipurpose grease (sold separately).
2. **Roller Chains**
   a. Remove left Side Cover.
   b. Use chain cleaner (sold separately) according to manufacturers instructions.
   c. Lubricate with chain oil (sold separately), wipe off excess oil.

## Replacing V-Belt

1. Remove right Side Cover.
2. Remove Belt Cover.




3. Move Belt back and forth on pulleys, while pulling Belt away from pulleys, one groove at a time.
4. Put new Belt on upper pulley, then move Belt back and forth onto lower pulley, while pushing it onto pulley, one groove at a time.
5. Replace Belt Cover, Rods, Right Panel and Rubber Handle.
6. Replace Hex Screws.

**Record Product's Serial Number Here:**_____

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175500472 when ordering parts.

# Troubleshooting

## Workpiece

| Problem | Possible Causes | Likely Solutions |
|---|---|---|
| Deeper cut at ends of board (snipe). | 1. Too little support of long boards.<br>2. Uneven force on cutter head. | 1. Provide better support for long boards.<br>2. Level Tables according to **Leveling Table Extensions on page 8.** |
| Torn, ragged, rough or raised grain. | 1. Blades dull or damaged.<br>2. Cut is too heavy.<br>3. Blades cutting against grain.<br>4. Wood has a high moisture content. | 1. Replace blades.<br>2. Reduce depth of cut.<br>3. Cut with grain.<br>4. Use dry wood. |

## Planer

| Problem | Possible Causes | Likely Solutions |
|---|---|---|
| Tool will not start. | 1. Cord not connected.<br>2. No power at outlet.<br>3. Internal damage or wear. (Carbon brushes or switch, 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. Have qualified technician service tool. |
| Tool operates slowly. | Extension cord too long or wire size too small. | Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3. |
| Performance decreases over time. | 1. Blades dull or damaged.<br>2. Carbon brushes worn or damaged. | 1. Replace blades.<br>2. Have qualified technician replace brushes. |
| Roller case adjustment difficult | 1. Sprockets and/or chain dirty.<br>2. Elevating screws and/ or columns dirty.<br>3. Elevating screws worn. | 1. Clean and lubricate sprockets and/or chain.<br>2. Clean and lubricate elevating screws and/or columns.<br>3. Replace elevating screws. |
| Chain jumping | 1. Sprockets worn.<br>2. Chain worn. | 1. Have sprockets replaced.<br>2. Have chain replaced. |
| Belt Slipping | Loose belt | Replace belt. |
| Excessive dust in air | Leaking bag or loose connection. | Check connections or replace collection bag. |
| Excessive noise or rattling. | Internal damage or wear. (Carbon brushes, bearings, or fan for example.) | Have qualified technician service tool. |
| Overheating/ Circuit breaker tripping. | 1. Dull blades.<br>2. Forcing boards through planer.<br>3. Blade dull or damaged.<br>4. Cut is too heavy.<br>5. Motor being strained by long or small diameter extension cord. | 1. Replace blades.<br>2. Allow auto feed to work at its own rate.<br>3. Replace blades.<br>4. Reduce depth of cut.<br>5. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3. |

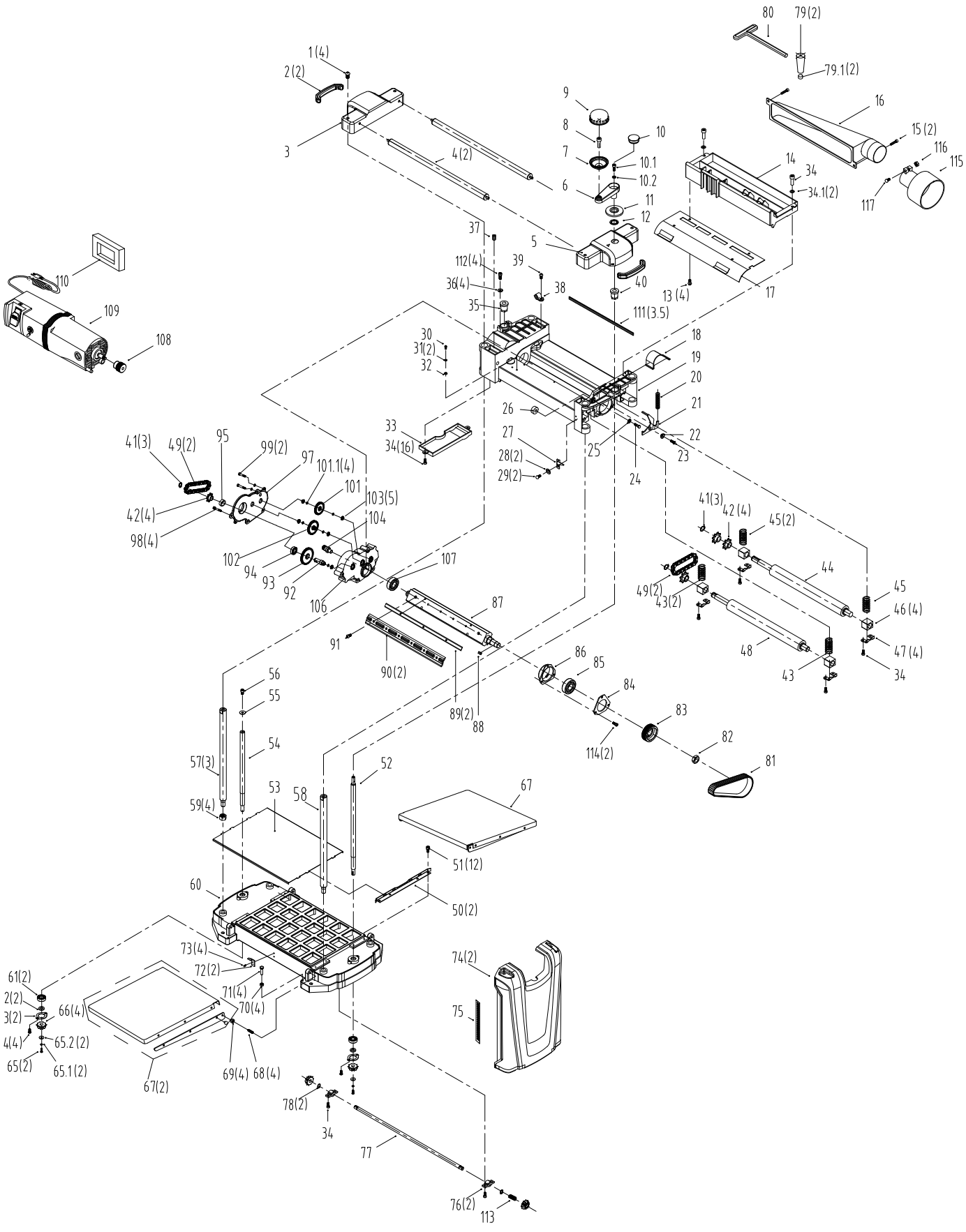
**Follow all safety precautions whenever diagnosing or servicing the tool.**
**Disconnect power supply before service.**

# Parts List

| Part | Description | Qty |
|---|---|---|
| 1 | Pan Head Screw | 4 |
| 2 | Portable Sheath | 2 |
| 3 | Left Cap | 1 |
| 4 | Roller Assembly | 2 |
| 5 | Right Cap | 4 |
| 6 | Crank Arm | 4 |
| 7 | Handle | 1 |
| 8 | Handle Shaft | 1 |
| 9 | Knob | 1 |
| 10 | Plug | 1 |
| 10.1 | Cap Screw | 1 |
| 10.2 | Flat Washer | 1 |
| 13 | Cross Head Taping Screw | 1 |
| 14 | Dust Hood | 1 |
| 15 | Pan Head Screw | 1 |
| 16 | Dust Adapter | 1 |
| 17 | Dust Chute | 4 |
| 18 | Belt Guard | 1 |
| 19 | Carriage | 2 |
| 20 | Compression Spring | 1 |
| 21 | Cutterhead Lock Plate | 1 |
| 22 | Bushing | 1 |
| 23 | Screw | 1 |
| 24 | Hex Bolt | 1 |
| 25 | Flat Washer | 1 |
| 26 | Washer | 1 |
| 27 | Pointer | 1 |
| 28 | Flat Washer | 1 |
| 29 | Cross Head Screw | 1 |
| 30 | Cross Head Screw | 1 |
| 31 | Spring Washer | 1 |
| 32 | Serrated Washer | 2 |
| 33 | Gearbox Dust Plate | 2 |
| 34 | Cap Screw | 2 |
| 34.1 | Flat Washer | 2 |
| 35 | Elevating Nut (Left) | 2 |
| 36 | Flat Washer | 1 |
| 37 | Set Screw | 16 |
| 38 | Wire Clip | 2 |
| 39 | Cross Head Screw | 1 |
| 40 | Elevating Nut (Right) | 4 |
| 41 | Retaining Ring | 1 |
| 42 | Sprocket | 1 |
| 43 | Compression Spring | 1 |
| 44 | Rear Roller | 1 |
| 45 | Compression Spring | 3 |
| 46 | Bearing Block | 4 |
| 47 | Retainer Plate | 2 |
| 48 | Front Roller | 1 |
| 49 | Chain | 2 |
| 50 | Guide | 4 |
| 51 | Pan Head Screw | 4 |
| 52 | Elevating Screw Rod (Right) | 1 |
| 53 | Platen | 2 |
| 54 | Elevating Screw Rod (Left) | 2 |
| 55 | Flat Washer | 12 |
| 56 | Cap Screw | 1 |
| 57 | Left Column | 1 |
| 58 | Right Column | 1 |
| 59 | nut | 1 |

| Part | Description | Qty |
|---|---|---|
| 60 | Base | 1 |
| 61 | Ball Bearing | 2 |
| 62 | Spacer | 2 |
| 63 | Bearing plate | 4 |
| 64 | Ball Bearing | 1 |
| 65 | Cap Screw | 2 |
| 65.1 | Spring Washer | 2 |
| 65.2 | Flat Washer | 2 |
| 66 | Bevel Gear | 2 |
| 67 | Extension Table Assembly | 2 |
| 68 | Adjustment Screw | 2 |
| 69 | nut | 2 |
| 70 | nut | 4 |
| 71 | Hex Bolt | 2 |
| 72 | Spring Plate | 2 |
| 73 | Cross Head Screw | 4 |
| 74 | Side Cover | 12 |
| 75 | Depth Scale | 4 |
| 76 | Bearing | 4 |
| 77 | Drive Shaft | 4 |
| 78 | Retaining Ring | 4 |
| 79 | Blade Magnetic Cover | 2 |
| 79.1 | Blade Magnets | 4 |
| 80 | T-Hex Wrench | 2 |
| 81 | V Belt | 1 |
| 82 | nut | 2 |
| 83 | Cutterhead Belt Pulley | 1 |
| 84 | Bearing Cover | 2 |
| 85 | Ball Bearing | 2 |
| 86 | Bearing Seat | 1 |
| 87 | Cutterhead | 1 |
| 88 | Key | 1 |
| 89 | Blade | 1 |
| 90 | Gib | 1 |
| 91 | Blade Screw | 1 |
| 92 | Drive Shaft | 1 |
| 93 | Gear | 1 |
| 94 | Ball Bearing | 1 |
| 95 | Spacer | 2 |
| 97 | Gearbox Cover | 2 |
| 98 | Cap Screw Assembly | 12 |
| 99 | Cap Bolt | 1 |
| 101.1 | Wearing Spacer | 1 |
| 101 | Gear | 1 |
| 102 | Gear | 1 |
| 103 | Gear Bushing | 1 |
| 104 | Pinion | 1 |
| 106 | Gear Box | 3 |
| 107 | Ball Bearing | 2 |
| 108 | Motor Belt Pulley | 4 |
| 109 | Motor | 1 |
| 110 | Foam Gasket | 2 |
| 111 | Sponge | 1 |
| 112 | Cap Screw | 5 |
| 113 | Compression Spring | 1 |
| 114 | Cap Screw | 2 |
| 115 | Dust Port | 1 |
| 116 | Nut | 1 |
| 117 | Screw | 1 |

# Assembly Diagram



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