

CENTRAL MACHINERY®

2-1/2 HP / 12" PLANER WITH DUST COLLECTOR

Model 95082

SET UP AND OPERATING INSTRUCTIONS



Visit our website at: <http://www.harborfreight.com>



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

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For technical questions or replacement parts, please call 1-800-444-3353.

Revised 10d

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.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



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

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

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.

1. **Work area safety**
 - a. **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
 - b. **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.
 - c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.
2. **Electrical safety**
 - a. **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.

- b. **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.*
 - c. **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
 - d. **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.*
 - e. **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.*
 - f. **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.*
3. **Personal safety**
- a. **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.*
 - b. **Use personal protective equipment. Always wear ANSI-approved 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.*
 - c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.**
 - d. **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.*
 - e. **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
 - f. **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.*
 - g. **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.*
 - h. **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.*

4. **Power tool use and care**
 - a. **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.*
 - b. **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
 - c. **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
 - d. **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.*
 - e. **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.*
 - f. **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
 - g. **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.*

5. **Service**
 - a. **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.*

Specific Safety Warnings

1. **Always wear ANSI-approved safety impact eye goggles and heavy-duty work gloves when using Planer.** *Using personal safety devices reduce the risk for injury. Safety impact eye goggles and heavy work gloves are available from Harbor Freight Tools. Dust mask, non skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.*
2. **Use a platform, or other practical way, to support a long workpiece as it enters the Planer.** *Holding the work by hand or against your body is unstable and may lead to loss of control.*
3. **Avoid unintentional starting.** *Make sure you are prepared to begin work before turning on the Planer.*
4. **Do not force the Planer.** *This tool will do the work better and safer at the speed and capacity for which it was designed.*
5. **Always unplug the Planer from its electrical outlet before changing blades or performing any inspection, maintenance, or cleaning procedures.**

6. **Never leave the Planer unattended while running.** *Turn power off if you have to leave the Planer.*
7. **Turn off Planer when jammed.**
8. **Before each use, check all nuts, bolts, and screws for tightness.**
9. **Keep extension cord off the ground and away from water.**
10. **Install this product on a proper surface.** *Locate on a flat, level, and solid surface that is capable of supporting the weight of the Planer and the stock being planed.*
11. **Maintain labels and nameplates on the tool.** *These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.*
12. **This product is not a toy.** *Keep it out of reach of children.*
13. **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 power switch locked on.*
 - *Properly maintain and inspect to avoid electrical shock.*
 - *Any power cord must be properly grounded. Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.*
14. **Some dust created by power sanding, sawing, grinding, drilling, and other construction activities,**

contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. *Some examples of these chemicals are:*

- *Lead from lead-based paints*
- *Crystalline silica from bricks and cement or other masonry products*
- *Arsenic and chromium from chemically treated lumber*

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, et seq.)

15. **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.*



SAVE THESE INSTRUCTIONS.

GROUNDING

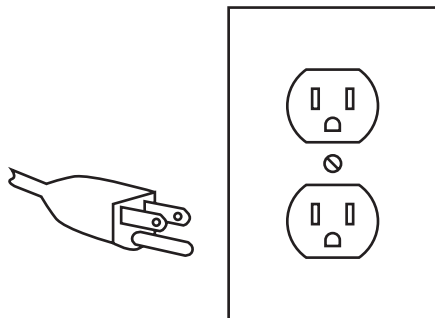
⚠️ WARNING TO PREVENT ELECTRIC SHOCK



AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION:

Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Grounded Tools: Tools with Three Prong Plugs



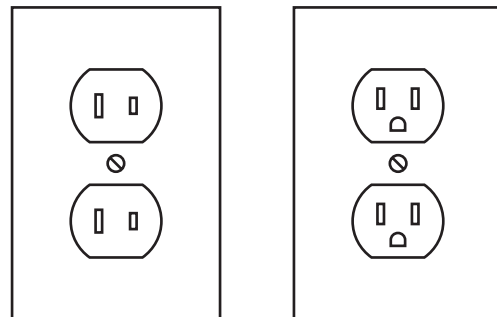
3-Prong Plug and Outlet

1. Tools marked with "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk

of electric shock. (See **3-Prong Plug and Outlet.**)

2. The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal. (See **3-Prong Plug and Outlet.**)
3. The tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the preceding illustration. (See **3-Prong Plug and Outlet.**)

Double Insulated Tools: Tools with Two Prong Plugs



Outlets for 2-Prong Plug

1. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. (See **Outlets for 2-Prong Plug.**)

- Double insulated tools may be used in either of the 120 volt outlets shown in the preceding illustration. (See **Outlets for 2-Prong Plug.**)

Extension Cords

- Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
- As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. (See **Table A.**)
- The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. (See **Table A.**)
- When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. (See **Table A.**)
- If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. (See **Table A.**)
- If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.
- Make sure the extension cord is properly wired and in good electrical con-

dition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.







- Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH				
	25'	50'	75'	100'	150'
0 – 2.0	18	18	18	18	16
2.1 – 3.4	18	18	18	16	14
3.5 – 5.0	18	18	16	14	12
5.1 – 7.0	18	16	14	12	12
7.1 – 12.0	18	14	12	10	-
12.1 – 16.0	14	12	10	-	-
16.1 – 20.0	12	10	-	-	-

*** Based on limiting the line voltage drop to five volts at 150% of the rated amperes.**

TABLE A

Symbology

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
	Volts Alternating Current
	Amperes
	No Load Revolutions per Minute (RPM)

SPECIFICATIONS

Electrical Requirements	120 V~ / 60 Hz / 11.8 A
Motor (Cutter head) Speed	2-1/2 HP, 18,800 cuts per minute
Maximum Cutting Depth	3/32"
Stock Capacity	4-1/2" x 12" lumber
Feed Speed	20 Feet per Minute
Included Accessories	1 Hex Wrench (4mm) 2 Magnets, 1 Dust Bag,

UNPACKING

When unpacking, check to make sure item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

INSTRUCTIONS FOR PUTTING INTO 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.



TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

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

Assembly

- NOTE:** This should always be mounted to a workbench before use.
- Select an area with enough room to fit the chosen dust collection system. Select a workbench to mount the Planer. Place the Planer on a workbench able to support the weight of the Planer and the wood stock being planed. The orientation of the Planer should enable the easy entry and exit of long pieces of wood stock.
- Using a pencil, mark through the mounting holes of the Planer, onto the workbench. Slide the Planer aside and drill four 3/8 inch mounting holes into the workbench.
- Slide the Planer back over the mounting holes in the workbench, and secure the Planer to the workbench with bolts, washers, spring washers and nuts (not included). Securely tighten.
- Mount the height (thickness) adjustment Handle (10) to the Right Cap (11). See Figure A.

⚠ WARNING

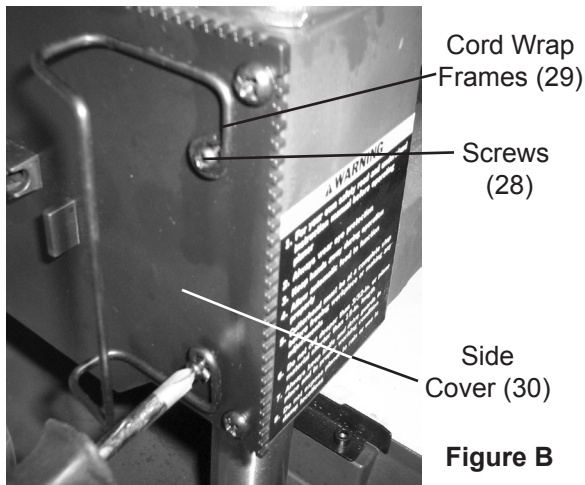
Before drilling, verify that there are no utility wires or other obstructions under the workbench.

Crank Handle (10)

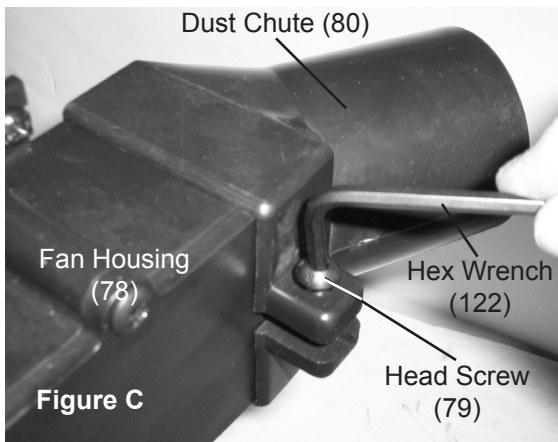


Figure A

- Place Rubber Cap (5) on the Handle and tighten Bolt (6) into the Right Cap (11).
- Using a screwdriver (not included), fasten the two Cord Wrap Frames (29) to the Side Cover (30) using four Screws (28). See Figure B.



- Use included Hex Wrench (122) to loosen Head Screw (79) on the frame of the Dust Chute (80). Slide Dust Chute over Fan Housing (78). Fasten Dust Chute in place by tightening Head Screw. See Figure C.



- Mount a trash bag (not included) to the Dust Chute (80) to collect the dust.

- WARNING!** Make sure Blade is fastened and tightened down securely before beginning any work. Refer to “**Changing Cutting Blades**” section of this manual to tighten blade properly).

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



TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

Turn the Power Switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

Work Piece and Work Area Set Up

- Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent injury and distraction.
- Route the power cord extension along a safe path to reach the Planer without creating a tripping hazard or exposing the power cord to possible damage.
- There must not be hazardous objects, such as utility lines or foreign

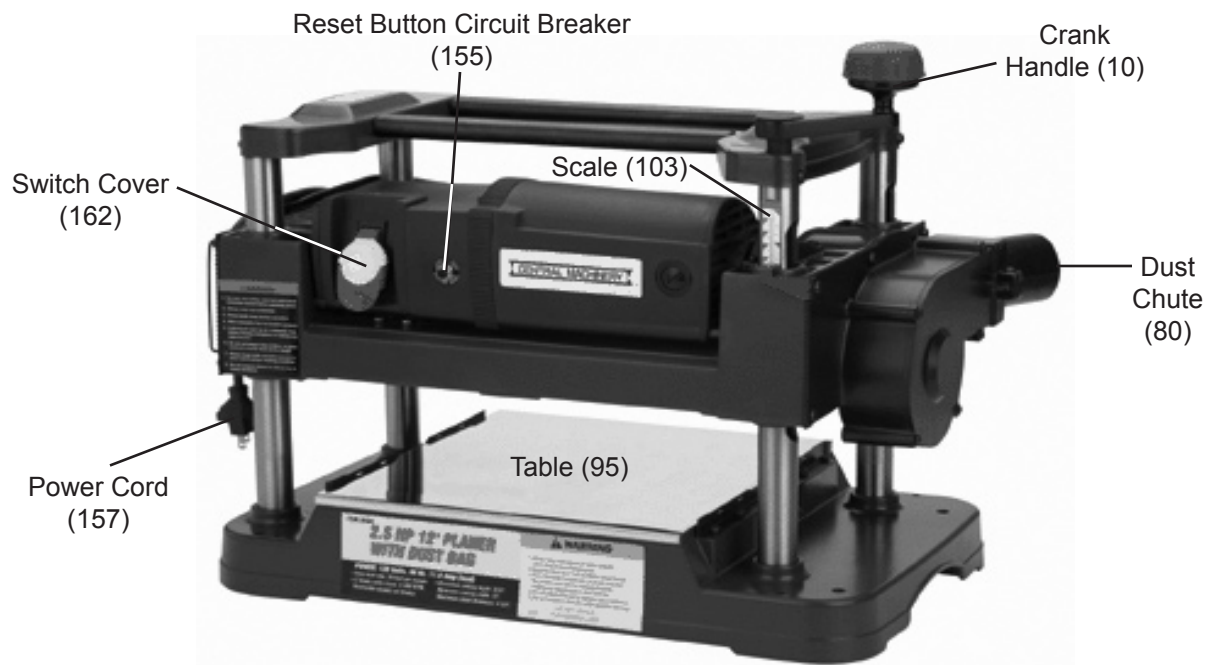


Figure C

objects, that will present a hazard while working.

General Operating Instructions

Note: Before operating, remove foam backing material from the Table (95).

1. Measure the thickness of the wood stock to be planed.
2. Turn the Adjustment Knob (10) to set the thickness of the cut, using the Scale (103) as a guide. See Figure C, above. Each complete turn of the Knob equals about 1/16 inch, up or down. Set the thickness to 1/16 inch less than the thickness of the wood stock. Make thin cuts at first, then increase the cut depth as required, up to 3/32 inch (maximum).
3. Place the end of the wood stock in front of the Planer (wood grain facing forward).

5. Plug the Power Cord (157) into a 20 amp, 120V electrical outlet.
6. Lift the Switch Cover (162) and push the Switch (161) to start. Allow the planer to come up to full speed before beginning a job.
7. When the motor is turning at full speed, carefully guide the front of the wood stock onto the Table (95), and into the turning Blades. To turn off Planer, press the Switch Cover (162) to turn the Planer off.

WARNING! Keep hands well clear of blades.

The auto-feed action will pull wood stock through the Planer. Support the wood stock exiting the Planer.

8. **Note:** Do not stand behind the end of the board during planing. Plane dry, unwarped, clean boards only. Avoid planing boards that have knots; loose knots can jam the machine or become a projectile. Do not plane boards that have foreign objects (nails, staples, etc.) in them.
9. Do not plane material:
 - thinner than 1/8"
 - narrower than 3/4",
 - wider than 12"
 - shorter than 15"
10. The planer has a maximum depth cut of 3/32" per pass. The Planer will operate best when the depth of cut is less than 1/16". It is recommended to make a series of shallow cuts rather than a single deep cut.
16. If the Planer turns off unexpectedly during operation; turn the Planer off and unplug it from the electrical outlet. Refer to the "Troubleshooting Section" of this manual for possible reasons. If the Circuit Breaker has tripped, remove any materials from the Planer and push the Circuit Reset button and then restart by lifting Switch Cover to start Planer again.
16. To prevent accidents, turn off the tool and disconnect its power supply after use. Clean, then store the tool indoors out of children's reach.

Note: Always keep the boards being planed level. Support long boards at both ends.

11. Plane along the grain of the wood.
12. Plane alternating sides of the board until the desired thickness is achieved.
13. When planing multiple boards to same thickness, place ends so they are touching (butting) for best results.
14. An assistant can return the boards to the operator using the Rollers (13) on top of the Planer.
15. When finished planing, press the Switch Cover (162) to turn the Planer off. **WARNING!** Wait until the motor comes to a complete stop and disconnect the power supply before readjusting the Planer.

MAINTENANCE AND SERVICING



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 to its "OFF" position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

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 screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, and any other condition that may affect its safe operation.
 2. **AFTER USE**, clean external surfaces of the tool with clean cloth or a brush.
 3. **PERIODICALLY**, blow the interior of the Planer out with compressed air and lubricate moving parts with white lithium grease.
4. **CARBON BRUSH MAINTENANCE.**

The carbon brushes may require maintenance when motor performance of tool decreases or stops working completely. To maintain brushes:

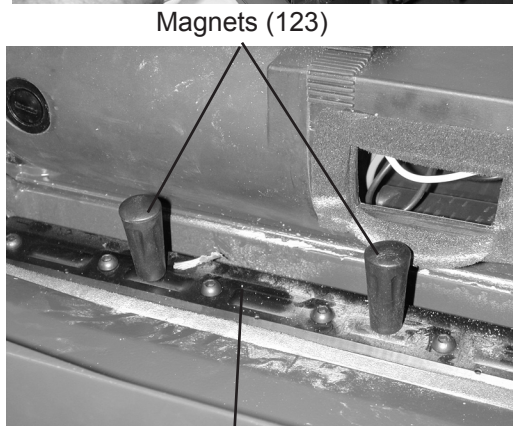
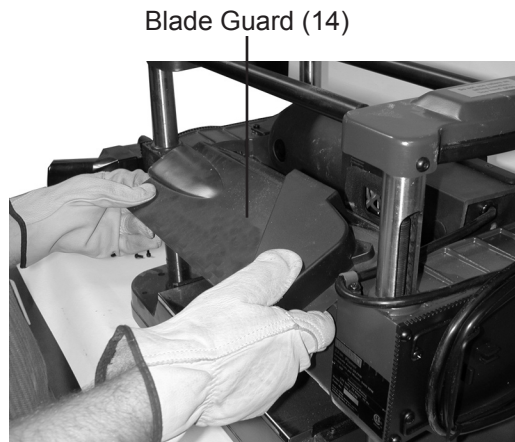
 - a. Remove the brush caps on the front and back of the motor housing.
 - b. Remove the carbon brushes from the housing. **Keep track of which orientation the old carbon brushes were in to prevent needless wear if they will be reinstalled.**
 - c. If either carbon brush is worn down by more than 1/2, replace **both** carbon brushes.
 - d. To clean old carbon brushes before reusing them, rub the contact areas with a pencil eraser.
 - e. Reinsert the old carbon brushes in the same orientation to reduce wear.
 - f. When installing the carbon brushes, make sure the carbon portions of the carbon brushes contact the motor armature, and that the springs face away from the motor. Also, make sure the springs operate freely.
 - g. Replace brush caps. Do not over-tighten.

Note: New carbon brushes tend to spark when first used until they wear and conform to the motor's armature.

BLADE MAINTENANCE.

When cutting ability deteriorates or planed surface starts to get uneven or rough, the blades will have to be rotated. Replace blades only after both sides are dull. **WARNING!** Do not attempt to sharpen blades, only replace them.

1. Unscrew and remove the Bolts (16) on the Blade Guard (14), slide Blade Guard slightly to the right, and lift it. See Figure D.



Gib (56)

Figure D

2. Using gloves, rotate the Cutterhead (53) so that the Screws (55) are accessible.
3. Using the Hex Wrench (122), unscrew and remove the six Screws (55) securing the Gib (56). See Figure D. Place the Screws in a safe location.
4. Using the two tool Magnets (123), lift the Gib off and set aside.

5. Using the two Magnets (123), lift the Blade (57) off the Cutterhead (53). See Figure E.

Note: Leave Springs (58) in place.

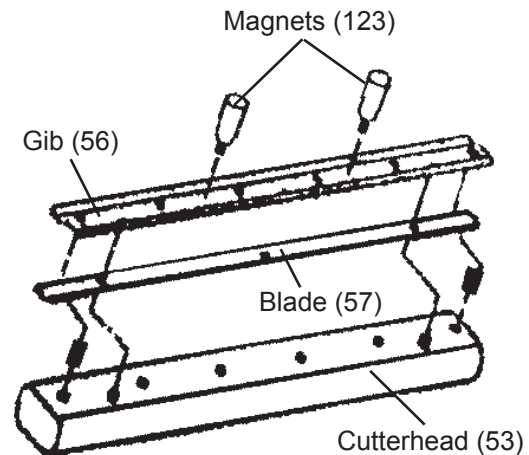


Figure E

6. Since the Blade has a double-edge, rotate the Blade using Magnets (123). **WARNING!** Do not attempt to sharpen blades, only replace them.

Use the pins located on each side to position the Blade in place.

7. Replace the Gib over the Blade and secure with the six Screws.

Securely tighten Screws using the Hex Wrench (122).

Blades require no adjustment and automatically locks into place.

8. Using gloves, rotate the Cutterhead (53) so that the second Blade is accessible.
9. Repeat steps 2 through 8 on the second Blade.

10. Replace the Blade Guard (14) and secure with Bolts (16). Securely tighten Bolts.

ADJUST ROLLER CASE LEVEL.

If the Roller Case (47) is not parallel to the base (104), the planer will produce cuts of uneven depth.

1. Use a test piece to measure the height of the taper.
2. Turn the Planer off and disconnect it from the power supply.
3. Fold both Extension Tables up and lay the planer on its back.
4. Loosen the Head Screw (45) and Set Screw (44). Loosen the Chain (121) by sliding the Idler Bracket (114).
5. Rotate the Pan Head Screws (120) to correct the orientation of the Roller Case to Base. Each turn of the Screw will move the Roller Case by 1/16".

REPLACING THE V-BELT.

1. Remove the Handle (10).
2. Remove the four Head Bolts (130A) and Head Washers (130B) from the Left Cap (1) and Right Cap (11). Remove both Caps.
3. Remove the Pan Head Screws (68) from the Fan Housing (78). Slide off Fan Housing.
4. Remove the V-Belt (65) from the Pulley (64) and replace with new 135J6 V-belt. Contact Harbor Freight Tool for replacement belts.
26. Reassemble the Planer.

⚠WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start	<ol style="list-style-type: none"> 1. No power at outlet. 2. Cord not connected. 	<ol style="list-style-type: none"> 1. Check power at outlet. 2. Check that cord is plugged in.
Gouging at ends of board (snipe)	<ol style="list-style-type: none"> 1. Dull Blades. 2. Too little support of long boards. 3. Uneven force on cutter head. 4. Roller case not level with base. 5. Lumber not butted properly. 	<ol style="list-style-type: none"> 1. Replace blades. 2. Provide better support for long boards. 3. Adjust board when it is in contact with only one feed roller. 4. Adjust roller case. 5. Butt each end of stock together evenly.
Grain is ragged	<ol style="list-style-type: none"> 1. Wood has a high moisture content. 	<ol style="list-style-type: none"> 1. Use dry wood.
Torn grain	<ol style="list-style-type: none"> 1. Cut is too heavy. 2. Blades cutting against grain. 3. Dull blades. 	<ol style="list-style-type: none"> 1. Reduce depth of cut. 2. Cut boards along grain. 3. Replace blades.
Rough, raised grain	<ol style="list-style-type: none"> 1. Dull blades. 2. Cut is too heavy. 3. Moisture content is too high. 	<ol style="list-style-type: none"> 1. Replace blades. 2. Reduce depth of cut. 3. Use dry wood or wood with lower moisture contents.
Uneven side-to-side depth of cut	<ol style="list-style-type: none"> 1. Roller case not level with planer base. 	<ol style="list-style-type: none"> 1. Adjust so that roller case is level.
Roller case adjustment difficult	<ol style="list-style-type: none"> 1. Sprockets or chain dirty. 2. Screws or columns dirty. 3. Screws worn. 4. Friction between roller case and covers. 5. Roller case not parallel. 	<ol style="list-style-type: none"> 1. Clean and lubricate sprockets and chain. 2. Clean and lubricate screws and columns. 3. Replace screws. 4. Clean and lubricate roller case and cover. 5. Adjust roller case.
Board feeds in, but will not move through.	<ol style="list-style-type: none"> 1. Out feed rollers are clogged. 2. Too much pressure on cutter head from long board. 	<ol style="list-style-type: none"> 1. Clean Planer. 2. Use supports to hold workpiece up.
Board thickness does not match depth of cut scale.	<ol style="list-style-type: none"> 1. Indicator not set correctly. 	<ol style="list-style-type: none"> 1. Have indicator repaired by a qualified technician.
Chain jumping	<ol style="list-style-type: none"> 1. Sprockets worn. 2. Chain worn. 	<ol style="list-style-type: none"> 1. Have sprockets replaced. 2. Have chain replaced.
Belt Slipping	<ol style="list-style-type: none"> 1. Belt is loose. 	<ol style="list-style-type: none"> 1. Replace belt.
Roller case will not lower	<ol style="list-style-type: none"> 1. Thickness gauge setting restricts roller case. 	<ol style="list-style-type: none"> 1. Reset thickness gauge.
Excessive dust in air	<ol style="list-style-type: none"> 1. Leaking bag or loose connection. 	<ol style="list-style-type: none"> 1. Check connections or replace collection bag.
Fan very loud	<ol style="list-style-type: none"> 1. Debris caught in fan. 2. Fan is loose. 	<ol style="list-style-type: none"> 1. Remove debris. 2. Tighten hardware on fan.
Motor overheats	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Motor not cooling right. 	<ol style="list-style-type: none"> 1. Reduce depth of cut 2. Clean sawdust from Planer.
Circuit breaker or fuse keeps tripping	<ol style="list-style-type: none"> 1. Motor overloaded. 2. Wrong circuit breaker or fuse. 3. Dull blades. 	<ol style="list-style-type: none"> 1. Reduce depth of cut. 2. Use correct circuit breaker or fuse. 3. Replace blades.



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

PARTS LIST

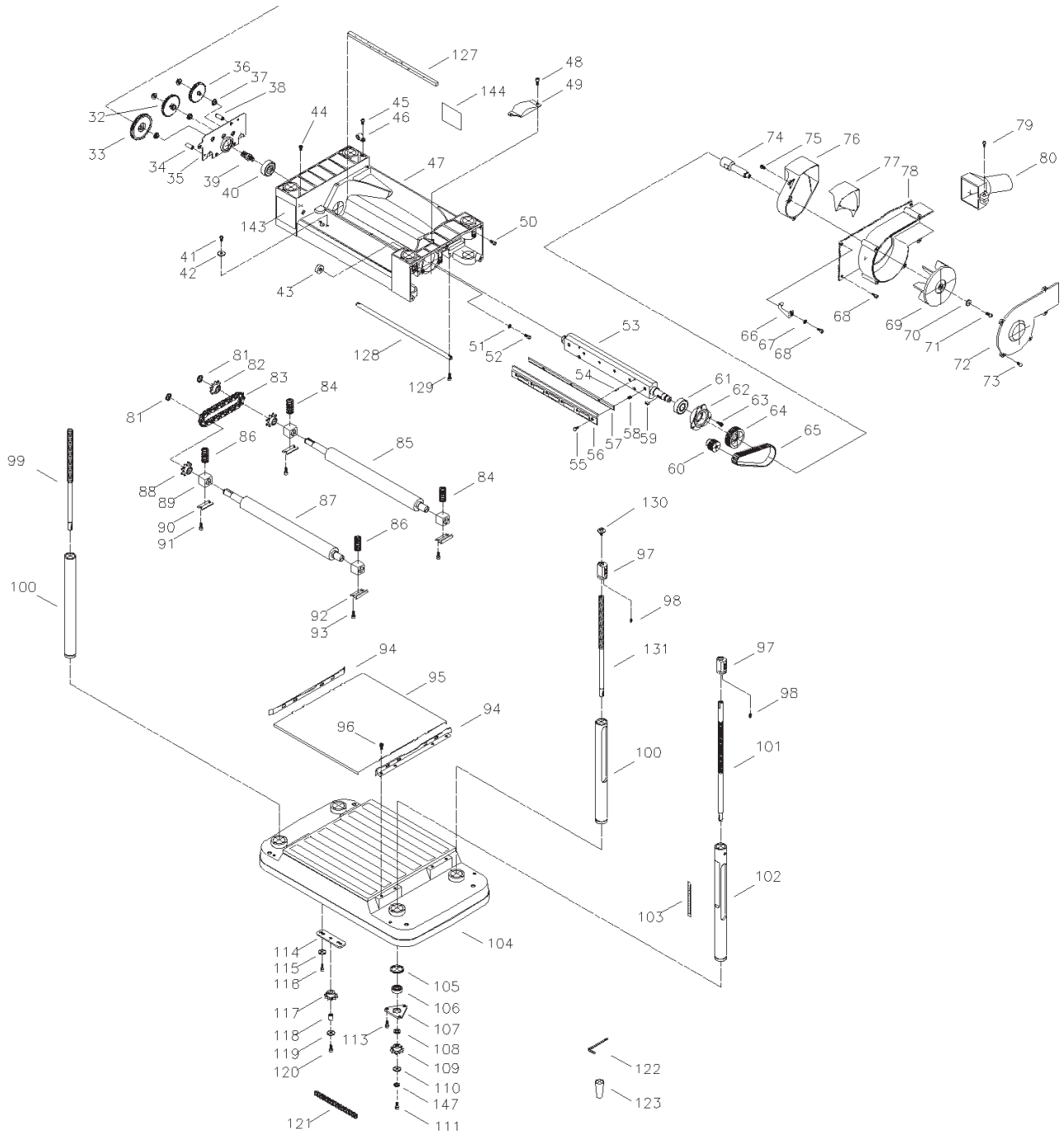
Part	Description	Q'ty	Part	Description	Q'ty
1	Left Cap	1	49	Belt Guard	1
2	Dowel Pin	4	50	M5x0.8x12mm Socket Head Bolt	8
3	Bushing	4	51	Flat Washer M8	1
4	Roller	2	52	M8x1.25x20mm Hex Head Bolt	1
5	Cap	1	53	Cutterhead	1
6	M5x0.8x25mm Bolt w/Lock Washer	1	54	Pin	4
7	Knob	1	55	M6x1.0x16mm Pan Head Screw	12
8	Screw	1	56	Gib	2
9	Knob Housing	1	57	Blade (set of 2)	2
10	Handle	1	58	Spring	4
11	Right Cap	1	59	M5x5x10mm Key	1
12	M6x1.0x6mm Pan Head Screw	4	60	Motor Pulley	1
13	Grip	2	61	6203ZZ Ball Bearing	1
14	Blade Guard	1	62	Bearing Retainer	1
15	Air Duct	1	63	M5x0.8x10mm Socket Head Bolt	3
16	M5x0.8x10mm Socket Head Bolt	4	64	Cutterhead Pulley	1
17	M4.3x9.5mm Self-threading Screw	3	65	135J6 V- Belt	1
18	3AM1x15 Retaining Ring	1	66	Indicator	1
19	Chain	1	67	1/4" Flat Washer	1
20	Sprocket	1	68	M6x1.0x12mm Pan Head Screw	5
21	Spacer	1	69	Fan	1
22	M5x0.8x30mm Socket Head Bolt	1	70	1/4" Flat Washer	1
23	M5x0.8x35mm Socket Head Bolt	3	71	M6x1.0x12mm Pan Head Screw	1
24	M5x0.8x27mm Socket Head Bolt	2	72	Fan Cover	1
25	Outside Gear Plate	1	73	M5x1.6x12mm Self-threading Screw	5
26	6002ZZ Ball Bearing	1	74	Fan Shaft	1
27	Shaft	1	75	M5x1.6x12mm Self-threading Screw	3
28	M4x1.4x10mm Self-threading Screw	4	76	Dust Guide	1
29	Cord Wrap Frames	2	77	Deflector	1
30	Side Cover	1	78	Fan Housing	1
31	M6x1.0x12mm Pan Head Screw	5	79	M6x1.0x25mm Pan Head Screw	1
32	58T/12T Double Gear	1	80	Dust Chute	1
33	70T Gear	1	81	3AM1x15 Retaining Ring	2
34	Spacer	2	82	Sprocket	1
35	Inside Gear Plate	1	83	Chain	1
36	52T/12T Double Gear	1	84	Outfeed Spring	2
37	Bushing	5	85	Outfeed Roller	1
38	Spacer	4	86	Infeed Spring	2
39	Pinion	1	87	Infeed Roller	1
40	6203ZZ Ball Bearing	1	88	Sprocket	2
41	M5x0.8x8mm Pan Head Screw	2	89	Retaining Bracket	4
42	Serrated Washer M5	2	90	Left Bracket	2
43	Spacer	1	91	M5x0.8x10mm Socket Head Bolt	4
44	M5x0.8x8mm Set Screw	1	92	Right Bracket	2
45	M5x0.8x10mm Pan Head Screw	1	93	M5x0.8x10mm Socket Head Bolt	4
46	Cable Clamp	1	94	Guide	2
47	Roller Case	1	95	Table	1
48	M5x0.8x10mm Socket Head Bolt	2	96	M5x0.8x10mm Socket Head Bolt	8
			97	Lead Nut	4

PARTS LIST (CONTINUED)

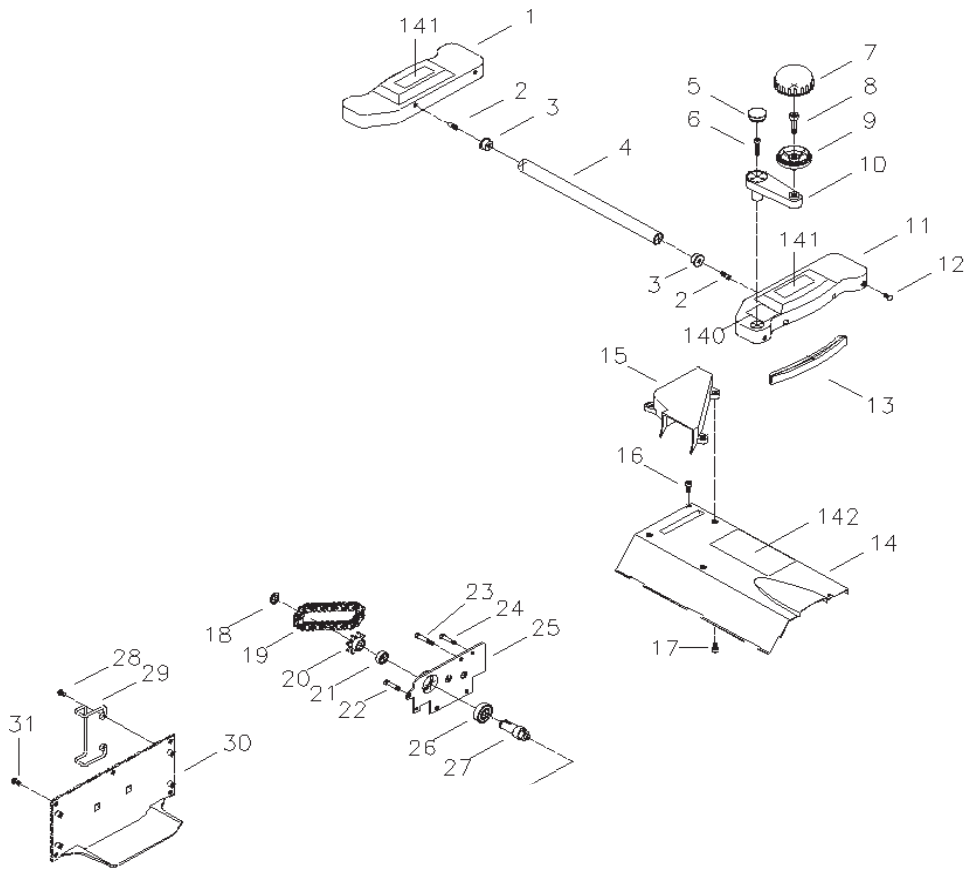
Part	Description	Q'ty	Part	Description	Q'ty
98	M5x0.8x8mm Set Screw	4	151	M5x0.8x20mm Pan Head Screw	3
99	Lead Screw	2	152	Lock Washer M5	3
100	Column	3	153	Housing (Left)	1
101	Lead Screw	1	154	Gasket	1
102	Column	1	155	Circuit Breaker	1
103	Scale	1	156	Strain Relief Bushing	1
104	Base	1	157	Line Cord	1
105	3AM1x30 Retaining Ring	4	158	Wire Connector	1
106	6000ZZ Ball Bearing	4	159	M4.8x2.1x16mm Self-threading Screw	1
107	Bearing Retainer	4	160	Switch	1
108	Spacer	4	161	Switch Frame	1
109	Sprocket	4	162	Switch Cover	1
110	Flat Washer M4	4	164	M4.8x2.1x20mm Self-threading Screw	3
111	M4x0.7x12mm Pan Head Screw	4	165	Lock Washer M5	3
113	M5x0.8x10mm Bolt w/Lock Washer	12	166	Motor Cover	1
114	Idler Bracket	1	167	1 1/4" Wavy Washer	1
115	5mm Flat Washer	2	168	6201-2Z/Z2/HT Ball Bearing	2
116	M5x0.8x10mm Socket Head Bolt	2	169	M5x0.8x8mm Self-threading Screw	1
117	Sprocket	1	170	Ground Wire	1
118	Spacer	1	171	5mm Serrated Washer	1
119	1/4" Flat Washer	1	172	Armature	1
120	M6x1.0x20mm Pan Head Screw	1	173	Insulating Sleeve	1
121	Chain	1	174	Stator	1
122	Hex Wrench 4mm	1	175	M4.8x2.1x60mm Self-threading Screw	2
123	Magnet	2	176	Lock Washer M5	2
127	Gasket	1	177	Logo Label	1
128	Rod	1	178	Housing (Right)	1
129	M4x0.8x10mm Socket Head Bolt	2	179	Pivot Rod	1
130A	M5x0.8x10mm Socket Head Bolt	1	180	Brush Holder	2
130B	1/4" Flat Washer	1	181	Brush	2
131	Lead Screw	1	182	Brush Cap	2
145	Carton Label	1	183	M5x0.8x10mm Set Screw	1
146	Logo	1	184	3BM1-32 Retaining Ring	1
147	Lock Washer M4	4			
150	Motor Assembly (includes key nos 1-29)	1			

NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

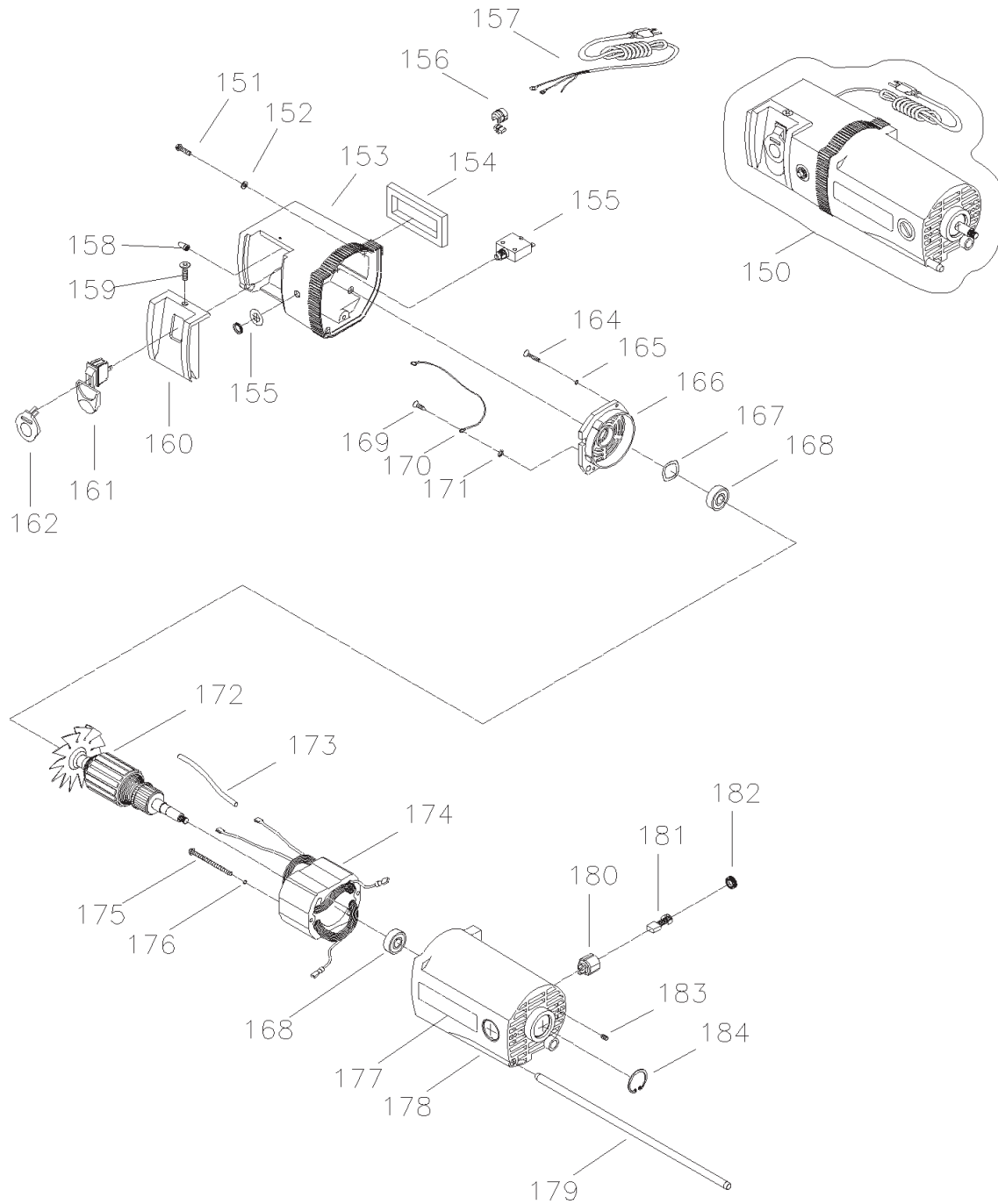
ASSEMBLY DIAGRAM



ASSEMBLY DIAGRAM (CONTINUED)



ASSEMBLY DIAGRAM (CONTINUED)



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Record Product's Serial Number Here: _____

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Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

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