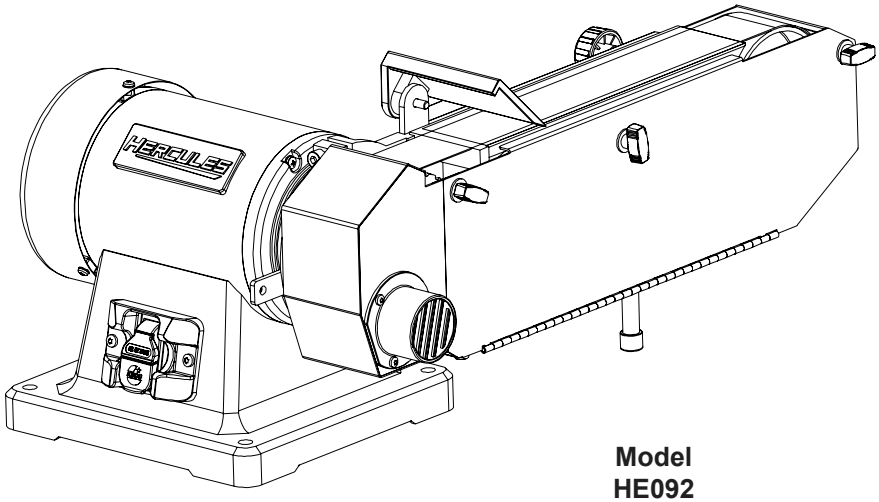
HERCULES™

Owner's Manual & Safety Instructions

26j



Model
HE092

2" x 48" Belt Grinder

⚠WARNING: To prevent serious injury, User must read and understand Owner's Manual. SAVE THIS MANUAL.

When unpacking, make sure that the product is intact and undamaged.
If any parts are missing or broken, please visit harborfreight.com/customer-support/contact-us as soon as possible. Reference 58875.

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.

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.

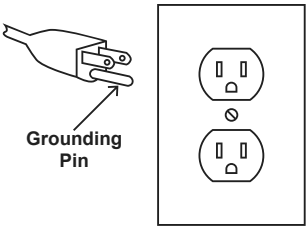
GROUNDING INSTRUCTIONS

⚠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.

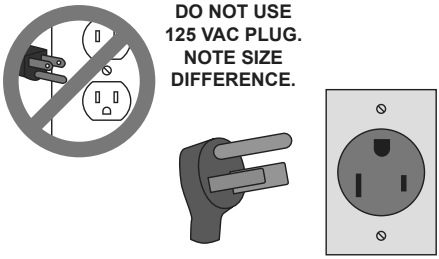


125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15A)

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.

240 VAC Grounded Belt Sander

1. This tool can be modified to operate on 240 VAC. A 240 V power cord (not included) must be installed in place of the 120 V power cord by a certified electrician before use.
2. The green wire inside the cord is connected 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. Never leave the grounding wire disconnected or modify the Power Cord Plug in any way.
3. Make sure the tool is connected to an outlet having the same configuration as the plug. If the tool must be reconnected for use on a different type of electric circuit, the reconnection should be made by qualified service personnel; and after reconnection, the tool should comply with all local codes and ordinances.
4. Do not use an extension cord when tool has been modified to operate on 240 VAC.
5. The plug shown (NEMA 6-50p) is for use on a 50 A circuit. A different 250 VAC plug and outlet combination may be used, provided it is rated to handle the electrical requirements of the tool and is installed by a certified electrician.



250 VAC 3-Prong Plug (6-50p) and Outlet (6-50r) (for up to 250 VAC and up to 50 A)

Belt Sander Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Sander

1. Wear eye protection.
2. Support workpiece with miter gauge, backstop, or worktable.
3. Maintain 1/16 inch maximum clearance between table and sanding belt or disc.
4. Avoid kickback by sanding in accordance with the directional arrows.
5. The backstop is a fence near the surface that helps the operator maintain control of the workpiece and prevents the workpiece from being pulled into the machine. For safety, it must be adjusted very close to the sanding surface.
6. The worktable is the surface mounted close to the sanding surface that the operator rests the workpiece against to prevent it from being pulled by the sanding surface. For safety, it must be adjusted very close to the sanding surface.
7. The sanding belt is designed to rotate down towards the table while the disc rotates both up from the table and down towards the table. Sand on the belt with the workpiece in front of the backstop and/or table. Sand only on the downward moving surface of the disc - sanding on the upward moving surface may result in the workpiece being thrown up and towards the operator.
8. Remove Safety Key when the Switch is turned off. Do not leave the Safety Key in the Switch when the tool is not in use.
9. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
10. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
11. When servicing use only identical replacement parts.
12. 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.
13. 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.
14. Industrial applications must follow OSHA guidelines.
15. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
16. Avoid unintentional starting. Prepare to begin work before turning on the tool.
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.
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

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.

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 **Addresses practices not related to personal injury.**

SETUP—BEFORE USE

⚠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.

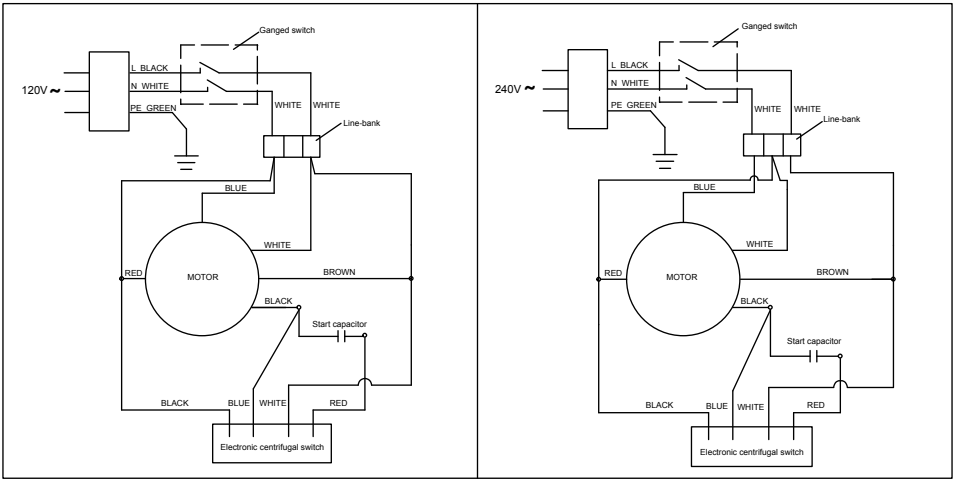
240VAC Set Up

⚠WARNING! TO PREVENT ELECTRIC SHOCK AND DEATH:
Turn the Power Switch OFF and unplug the tool from its electrical outlet before performing any procedures in this section.

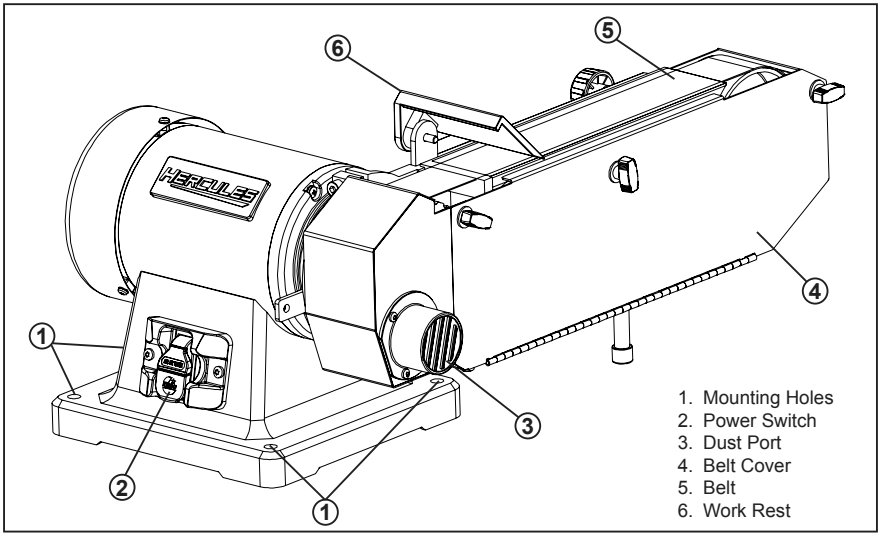
This tool can be modified to operate on 240VAC. Modifications should be performed by a certified electrician.

1. Remove the Base Plate on the bottom of tool.
2. Install a 240VAC power cord (not included) in place of the 120VAC power cord. For grounding information refer **240 VAC Grounded Belt Sander on page** .
3. Rewire as follows for 240V operation:
   a. Move the White wire from Terminal 3 to Terminal 2.
   b. Move the Red wire from Terminal 1 to Terminal 2.
   c. Move the small Black wire from Terminal 1 to Terminal 2.

   Refer to the Wiring Diagram below.
4. Replace the Base Plate on the bottom of tool.

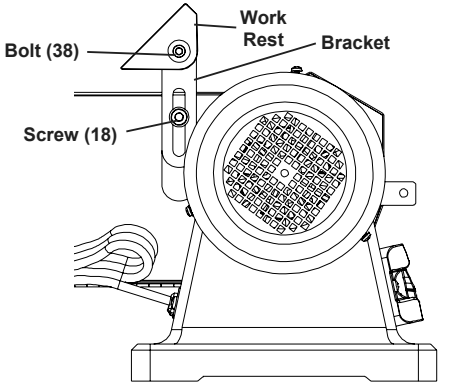


Functional Description



Assembly

7. Attach Bracket using Screw (18), tighten securely with included hex wrench.
8. Attach Work Rest to Bracket using Bolt (38), finger tighten.
9. Position Work Rest 1/8" from and 90° to Belt.
10. Tighten Bolt securely using included hex wrench.



Mounting

Select a workbench or mounting location that is able to support the weight of the tool, plus any additional weight placed on it during use. Use the mounting holes in the Base to mount. Mounting hardware not included.

OPERATION

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

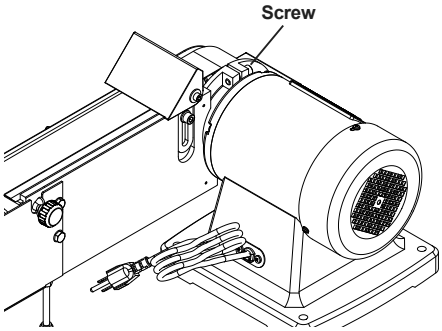
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

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

Tool Set Up

Adjusting Belt Assembly Position (Vertical to Horizontal)

1. Loosen Screw with included hex wrench.
2. Rotate Belt Assembly to desired position.
3. Tighten Screw.



Dust Collection

Connect a dust hose from the Dust Port to a dust collector (hose and dust collector sold separately).

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. Before beginning work, provide for sparks and debris that will fly off the work surface.

General Operating Instructions

WARNING! TO PREVENT SERIOUS INJURY:
Always use the Work Rest.

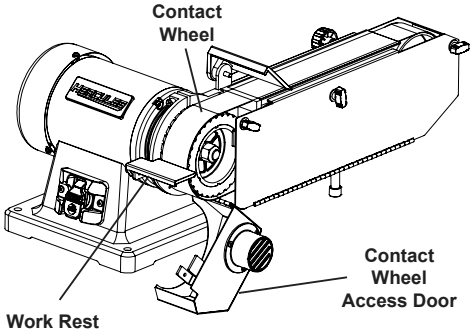
1. Make sure that the Power Switch is in the off-position.
2. Make sure nothing is contacting the Belt, then turn on the Power Switch.

CAUTION! TO PREVENT INJURY: Do not apply so much pressure on object being sanded to inhibit rotation of Belt.

3. Keep fingers away from the Belt. Use two hands and hold workpiece securely against the Work Rest at all times. Press the workpiece against the Belt to start tool. Keep the workpiece moving for a better finish.
4. Occasionally check the Belt for tears, wear, or fraying. Replace used or worn belts when necessary.
5. After use, turn off the tool, remove the Safety Key from the Switch, and disconnect the power supply. Clean and store the tool indoors out of children's reach.

Contouring

1. Place Belt Assembly in horizontal position.
2. Open Contact Wheel Access Door.
3. Use Work Rest to secure workpiece while using Contact Wheel.



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 off and unplug the tool from its electrical outlet before performing any procedure in this section.

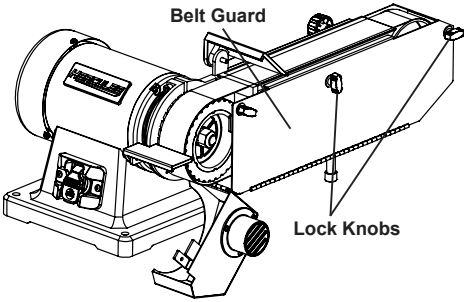
TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs or damage is noted, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

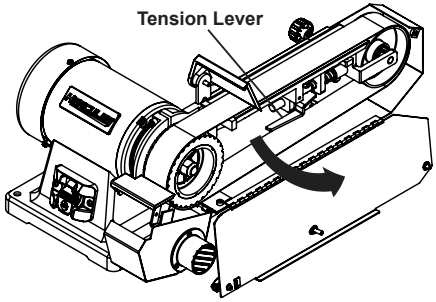
1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware,
   - misalignment or binding of moving parts,
   - cracked or broken parts,
   - damaged electrical wiring,
   - any other condition that may affect its safe operation.
2. **AFTER USE,** Wipe external surfaces of the tool with clean cloth. Use a brush to clean off sawdust or debris.
3. **PERIODICALLY,** wear ANSI-approved safety goggles and NIOSH-approved breathing protection and blow dust and debris out of the motor vents using dry compressed air.
4. The Bearings on this Sander are sealed and do not require lubrication.
5. Inspect Graphite Pad behind Belt. Replace Pad (included) if worn or damaged.
6. Inspect Belt. Replace if worn or damaged.
7. **⚠WARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

Belt Replacement

1. Loosen Lock Knobs.
2. Remove Belt Guard.



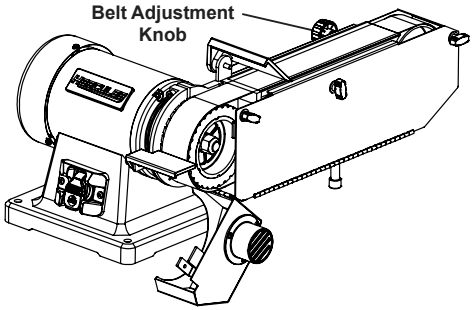
3. Pull Belt Tension Lever out.



4. Remove Belt.
5. Replace Belt.
6. Position Belt in center of pulleys.
7. Push Tension Lever in.

Belt Tracking

1. Rotate Belt by hand to check tracking. If Belt is not centered, rotate Belt Adjustment Knob clockwise to move Belt to the right and counterclockwise to move Belt to the left, until Belt is centered.
2. Replace Belt Guard.
3. Tighten Lock Knobs.



Troubleshooting

Problem	Possible Causes	Likely Solutions
Sander does not turn on	1. Not plugged in.	1. Plug in Sander.
	2. No power at outlet.	2. Check power at outlet and/or circuit breaker.
	3. Safety Key not inserted into Switch.	3. Insert Safety Key into Switch.
	4. Switch is not turned ON.	4. Turn on the Switch.
Motor slows when during use	1. Drive Belt too tight.	1. Have the Drive Belt adjusted by a qualified technician.
	2. Applying too much pressure.	2. Use less pressure.
Wood burns during use	1. Belt may be loaded with dirt or debris.	1. Clean or replace Belt using instructions in this manual.
	2. Applying too much pressure.	2. Use less pressure.
Overheating.	1. Forcing machine to work too fast.	1. Allow machine to work at its own rate.
	2. Accessory dull or damaged.	2. Keep cutting accessories sharp. Replace as needed.
	3. Blocked motor housing vents.	3. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.
	4. Motor being strained by long or small diameter extension cord.	4. 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** .

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

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE COMPONENT 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.

COMPONENT LIST AND DIAGRAM

Component List

Part	Description	Qty
1	Screw	13
2	Washer	9
3	Screw	2
4	Base Plate	1
5	Nut	4
6	Capacitor Support	1
7	Screw	1
8	Capacitor	1
9	ON/OFF Switch	1
10	Screw	6
11	Switch Plate	1
12	Base	1
13	Bolt	2
14	Centrifugal Switch	1
15	Power Cord	1
16	Table Support	1
17	Work Rest	1
18	Screw	2
19	Screw	1
20	Cord Clip Plate	1
21	Cord Clip	1
22	Screw	1
23	Star Washer	1
24	Cord Bushing	1
25	Line Bank	1
26	Fan Cover	1
27	Fan	1
28	Nut	4
29	Back End bell	1
30	Washer	1
31	Ball Bearing	1
32	Stator	1
33	Rotor	1
34	Screw	4
35	Ball Bearing	1
36	Front End Bell	1
37	Belt Table Support	1
38	Bolt	1
39	Work Rest	1
40	Bolt	2
41	Washer	2
42	Belt Adjustment Knob	1
43	Spring	1
44	Washer	3

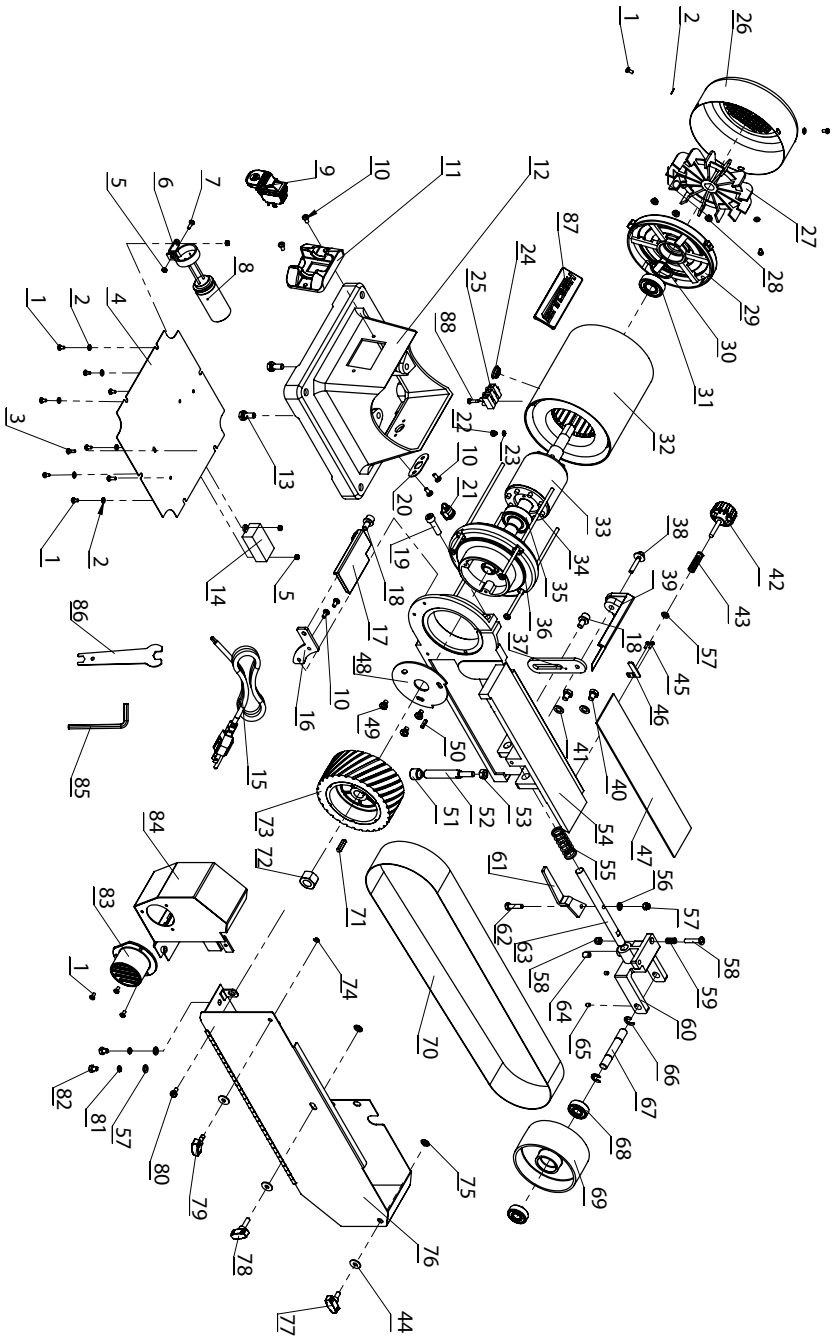
Part	Description	Qty
45	Screw	2
46	Adjusting Pad	1
47	Graphite Pad	1
48	Location Board	1
49	Screw	3
50	Spring Pin	1
51	Rubber Foot	1
52	Support Rod	1
53	Nut	1
54	Belt support	1
55	Spring	1
56	Washer	4
57	Nut	2
58	Screw	1
59	Spring	1
60	Idler Wheel Support	1
61	Belt Tension Lever	1
62	Bolt	1
63	Guide Rod	1
64	Screw	1
65	Screw	2
66	Washer	2
67	Idler Shaft	1
68	Ball Bearing	2
69	Idler Drum	1
70	Belt	1
71	Key	1
72	Nut	1
73	Contact Wheel	1
74	Washer	1
75	Washer	2
76	Safe Guard	1
77	Lock Knob	1
78	Lock Knob	1
79	Lock Knob	1
80	Screw	1
81	Spring Washer	2
82	Bolt	2
83	Dust Port	1
84	Contact Wheel Access Door	1
85	Hex Wrench	1
86	Spanner	1
87	Label Plate	1
88	Screw	1

Record Product's Date Code Here:_____

Note: If product has no date code, record month and year of purchase instead.

Note: The component list and assembly diagram are shown for reference only.
To view all currently available replacement parts, please visit harborfreight.com/parts
Specify UPC 193175448088 when ordering parts.

Assembly Diagram



3-YEAR LIMITED WARRANTY

This HERCULES tool is warranted to the original purchaser to be free from defects in materials and workmanship for a period of three (3) years beginning on the date of purchase. To obtain warranty service, visit your local Harbor Freight retail store. Warranty registration is not required. The product or part must be returned to us with proof of purchase (e.g. in-store receipt or packing slip/invoice) and may require shipment by purchaser to a service center at purchaser's expense. If our inspection verifies a covered defect in materials or workmanship during the warranty period, we will, at our option, repair or replace the defective product. We will return repaired products within a reasonable time at our expense, but if we determine that there is no defect, or that the defect resulted from causes not within the scope of our warranty, then we will return the product to you if you pay return shipping costs.

This warranty does not cover any failure or damage that we determine is due directly or indirectly to normal wear and tear, misuse, use not for the intended purpose or not in accordance with the product manual, abuse, accident, rental, modification or alteration, unauthorized repair, improper installation, neglect, lack of maintenance, or any other failure not arising from defective materials or workmanship. Fraudulent returns or claims will be denied. The repair or replacement described in this warranty shall be your sole and exclusive remedy. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL, AND ANY IMPLIED WARRANTIES ARE DISCLAIMED TO THE EXTENT PERMITTED BY LAW AND OTHERWISE LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN. HARBOR FREIGHT SHALL NOT BE LIABLE UNDER ANY CIRCUMSTANCES FOR ANY INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL, OR PUNITIVE DAMAGES OR COSTS ARISING FROM THIS WARRANTY OR THE USE OF THIS PRODUCT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THESE LIMITATIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

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