# **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.



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

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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.

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### **AWARNING**

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

### **Table of Contents**

Safety 2	Maintenance 12
Setup - Before Use: 8	Parts List and Diagram 14
Setup 8	Warranty 16
Operation9	



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.			
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.			
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.			
	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 Power Tool Safety Warnings**

## **AWARNING**

**Read all safety warnings, instructions, illustrations and specifications provided with this power tool.** *Failure to follow all instructions listed below 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 or battery-operated (cordless) 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 earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

MAINTENANCE

- 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 eye protection. Protective 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 dust collection can reduce dust-related hazards.
- b. Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.
- 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.
- j. Avoid unintentional starting. Prepare to begin work before turning on the tool.
- k. Do not lay the tool down until it has come to a complete stop. Moving parts can grab the surface and pull the tool out of your control.
- I. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- m. Do not leave the tool unattended when it is plugged into an electrical outlet. Turn off the tool, and unplug it from its electrical outlet before leaving.
- n. This product is not a toy. Keep it out of reach of children.
- 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. • Properly ground power cord.
  - Ground Fault Circuit Interrupter (GFCI) should also be implemented – it prevents sustained electrical shock.
- p. 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.

#### 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 remove the battery pack, if detachable, 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 and accessories. 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.
- h. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

#### 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.

- Maintain labels and nameplates on the tool. These carry important safety information.
   If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 6. Belt sander and drum sander safety warnings
  - a. Hold the power tool by insulated gripping surfaces, because the sanding surface may contact its own cord. Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

#### 7. 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:

- a. 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 symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
- b. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
- c. Wear suitable gloves to reduce the vibration effects on the user.
- d. Use tools with the lowest vibration when there is a choice.
- e. Include vibration-free periods each day of work.
- f. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
- g. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

### Grounding

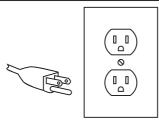
# **AWARNING**

#### 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.

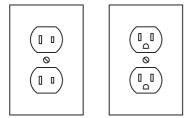
### Grounded Tools: Tools with Three Prong Plugs



3-Prong Plug and Outlet

- 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.)
- 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.)
- 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** 

- 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.
- 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.)
- 3. 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 condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
- 8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

GAUGE FOR EXTENSION CORDS* (120/240 VOLT)					
NAMEPLATE AMPERES	EXTENSION CORD LENGTH				
(at full load)	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.					

# Symbology

	Double Insulated	W of
V	Volts	sa R
~	Alternating Current	se N
Α	Amperes	C D K
n <sub>0</sub> xxxx/min.	No Load Revolutions per Minute (RPM)	W R P

	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
C	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Fire. Do not cover ventilation ducts. Keep flammable objects away.
	WARNING marking concerning Risk of Electric Shock. Properly connect power cord to appropriate outlet.

OPERATION



excessive heat, and damp or wet areas.
TABLE A: RECOMMENDED MINIMUM WIRE

### Specifications

Electrical Rating	120VAC / 60Hz / 1.2A
No Load Speed	12,500/min
	Hook and Loop, 3-7/8" W x 5-1/2" L



### Setup - Before Use:



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

Note: For additional information regarding the parts listed in the following pages, refer to *Parts List and Diagram* on page 14.

### Functions





#### **Operating Instructions**



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

# Workpiece and Work Area Set Up

- 1. Workpiece selection:
  - a. Workpiece must be free of foreign objects.
  - Wear a NIOSH-approved respirator and have appropriate ventilation whenever sanding pressure treated lumber.
- 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.
- 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.
- 4. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
- There must not be objects, such as utility lines, nearby that will present a hazard while working.

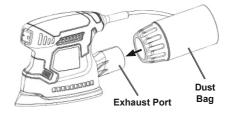
### **Tool Changing**

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

#### Installing the Dust Bag

- 1. Unplug the Corner Sander.
- 2. The Dust Bag is installed on the back of the Corner Sander.
- 3. Using a slight twisting motion, slide Dust Bag over the blower Exhaust Port until firmly seated.

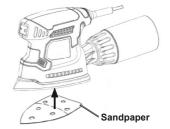


#### Installing Sandpaper

**Note:** This Corner Sander uses hook and loop Sandpaper.

- 1. Set the Corner Sander's Power Switch to OFF (0) and unplug it.
- 2. Before installing the Sandpaper, make sure the Base Plate is free of dust and dirt.
- Align the hook and loop Sandpaper with the holes in the Base Plate so that dust can be collected into the Dust Bag. Press sandpaper firmly in place.
- Remove used Sandpaper by peeling one edge away from the Base Plate until the whole sheet is free.

**NOTICE:** Do not use torn or severely worn or damaged Sandpaper. To do so could damage the surface of the Base Plate.



### **Setting and Testing**

- 1. Ensure the Dust Bag is securely attached.
- Ensure the Sandpaper (sold separately) is correctly attached to the Sander and that its holes align with the holes in the Base Plate so the Dust Bag will collect dust during the sanding operation.
- 3. Switch the Power Switch to ON (I) and run the tool for at least 30 seconds.
- If abnormal noise/vibration occurs or the Sandpaper/Dust Bag slip off, have the problem corrected before further use.



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#### TO PREVENT SERIOUS INJURY: Grip the tool firmly in both hands.

- Wipe the work surface clean of all dirt and debris, especially that of previous coarser sanding sessions, which will scratch the surface of a finer grit sanding session.
- 2. Attach the desired grit Sandpaper (sold separately) onto the Base Plate.
- 3. Press Power Switch off (0), then plug in the tool.
- To begin, grip the tool with both hands and press the Power Switch on (I) to start the tool. If connected to a vacuum, start the vacuum.

Note: The Corner Sander may be alternately connected to a vacuum (sold separately), instead of the Dust Bag, if desired.

- 5. Wait until the tool has reached full speed, then gently contact the surface.
- 6. Keep heavy pressure off of the tool when operating. Allow the tool to do the work.

#### NOTICE: Do not cover air vents.

- Move the tool in a uniform pattern up and down or side to side while sanding to ensure even sanding.
- 8. Periodically, stop the tool and check for:
  - Sandpaper wear. Replace worn Sandpaper as needed.
  - Dust accumulation in the Dust Bag (if not using a vacuum). Detach the Dust Bag, clean it, then reinstall it.

Note: When sanding for extended periods of time, the motor may overheat. If this occurs, turn off the Sander and let it come to a complete stop before removing from workpiece. Allow the motor to cool before resuming.

#### WARNING! TO PREVENT SERIOUS INJURY:

The tool will restart automatically if stalled.

- 9. To prevent accidents, after use:
  - a. Turn off the tool and unplug it.

#### WARNING! TO PREVENT SERIOUS INJURY: Allow the tool to come to a complete stop before setting it down.

- b. If using a vacuum, stop it and disconnect it from the Sander.
- c. Unplug the tool.
- d. Empty Dust Bag.
- e. Clean Corner Sander, then store it indoors out of children's reach.



### Maintenance and Servicing Instructions



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

### **AWARNING**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure that the Power Switch is in the off-position 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

- BEFORE EACH USE, inspect the general condition of the tool. Check for:
  - · loose hardware,
  - · misalignment or binding of moving parts,
  - · damaged cord/electrical wiring,
  - · cracked or broken parts, and
  - any other condition that may affect its safe operation.

- 2. AFTER USE:
  - · wipe external surfaces of tool with clean cloth,
  - · empty debris accumulated in the Dust Bag.
- Periodically, wear ANSI-approved safety goggles and NIOSH-approved breathing protection and blow dust and grit out of the motor vents using dry compressed air.
- AWARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

### Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	1. Cord not connected.	1. Check that cord is plugged in.
	2. No power at outlet.	<ol> <li>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.</li> </ol>
	<ol> <li>Tool's thermal reset breaker tripped (if equipped).</li> </ol>	<ol> <li>Turn off tool and allow to cool. Press reset button on tool.</li> </ol>
	<ol> <li>Internal damage or wear. (Carbon brushes or switch, for example.)</li> </ol>	4. Have technician service tool.
Tool operates slowly.	1. Excess pressure applied to workpiece.	<ol> <li>Decrease pressure, allow tool to do the work.</li> </ol>
	<ol> <li>Power being reduced by long or small diameter extension cord.</li> </ol>	<ol> <li>Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See Extension Cords in GROUNDING section.</li> </ol>
Performance	Carbon brushes worn or damaged.	Have qualified technician replace brushes.
decreases over time.		
Excessive noise	Internal damage or wear.	Have technician service tool.
or rattling.	(Carbon brushes or bearings, for example.)	
Overheating.	<ol> <li>Forcing tool to work too fast.</li> <li>Blocked motor housing vents.</li> </ol>	<ol> <li>Allow tool to work at its own rate.</li> <li>Wear ANSI-approved safety goggles and NIOSH-approved dust mask/ respirator while blowing dust out of motor using compressed air.</li> </ol>
	<ol> <li>Motor being strained by long or small diameter extension cord.</li> </ol>	<ol> <li>Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See Extension Cords in GROUNDING section.</li> </ol>
Tool does not grind, sand or	1. Accessory loose.	<ol> <li>Confirm accessory arbor is correct and Outer Flange/Arbor Nut is tight.</li> </ol>
brush effectively.	<ol> <li>Accessory damaged, worn or wrong type for the material.</li> </ol>	<ol> <li>Check condition and type of disc accessory Use only proper type of disc accessory in good condition.</li> </ol>

the tool. Disconnect power supply before service.

### 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.

### Parts List and Diagram

### Parts List

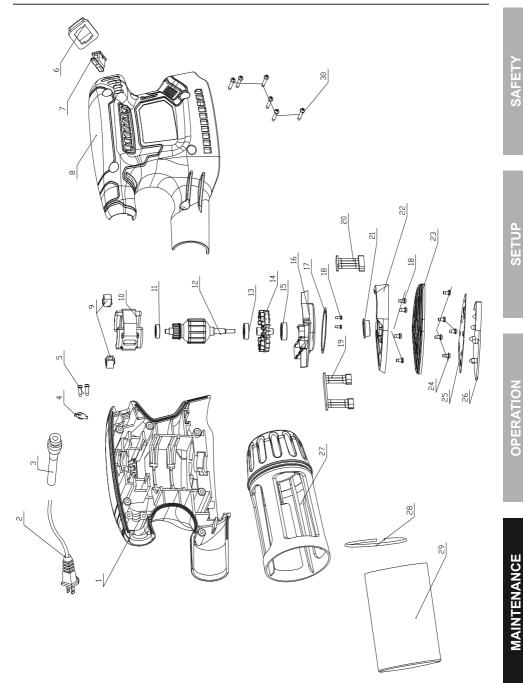
Part	Description	Qty
1	Left Housing	1
2	Power Cord	1
3	Strain Relief	1
4	Cord Clamp	1
5	Screw, ST4 x 12	2
6	Switch Cover	1
7	Power Switch	1
8	Right Housing	1
9	Carbon Brush	2
10	Motor Field	1
11	Bearing	1
12	Motor Armature	1
13	Bearing, 627RS	1
14	Fan	1
15	Bearing, 628RS	1

Part	Description	Qty
16	Fan Cover	1
17	Felt	1
18	Screw, ST4 x 8	6
19	Cushion Support Rear	1
20	Cushion Support Front	1
21	Bearing Cover	1
22	Aluminum Plate	1
23	Base	1
24	Screw, M4 X 8	5
25	Sandpaper	1
26	Base Plate	1
27	Holder	1
28	Dust Bag Spring	1
29	Dust Bag	1
30	Screw, ST4 X 16	6

#### 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 193175427847 when ordering parts.



### Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.



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