MINI CIRCULAR SAW

Model 97200

SET UP AND OPERATING INSTRUCTIONS

Diagrams within this manual may not be drawn proportionally.
Due to continuing improvements, actual product may differ slightly from the product described herein.

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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.
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 SAFETY RULES

WARNING! Read all instructions
Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury. The term “power tool” in all of the warnings listed below refers to your line-operated (corded) Circular Saw.

SAVE THESE INSTRUCTIONS

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.

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 safety equipment. Always wear eye protection. Wear work gloves when handling the Blade. Safety equipment such as dust mask, non-skid safety shoes, work gloves, or hearing protection used for appropriate conditions will reduce personal injuries.
c. Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in 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.

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 power 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 before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. 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.

4. Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, 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.*

**VIBRATION HAZARD**

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. Wear suitable gloves to reduce the vibration effects on the user.

4. Use tools with the lowest vibration when there is a choice between different processes.

5. Include vibration-free periods each day of work.

6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

**SPECIFIC SAFETY RULES**

1. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

2. Avoid unintentional starting. Prepare to begin work before turning on the tool.

3. 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.
4. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque and keep both hands out of the way of the Blade.

5. 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.

6. Use clamps (not included) or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

7. This product is not a toy. Keep it out of reach of children.

8. Always use blades with a 2" diameter and round arbor holes. Blades that do not match the mounting hardware of the Saw will run eccentrically, causing loss of control.

9. Change Blade only after it has had a chance to cool down. The Blade will be very hot after any cutting procedure.

10. Check Blade Guard and Guard Spring before use to ensure proper condition and alignment. Blade Guard should move back into place easily and have no contact with the Blade.

11. When Blade is binding, or interrupted in a cut for any reason, release the trigger and hold the Saw motionless in the material until the Blade comes to a complete stop. Never pull the Saw backward while the Blade is in motion. Investigate and take corrective actions to eliminate the cause of blade binding.

12. When starting a Saw in the workpiece, center the Blade in the cut and check that teeth are not engaged into the material. If Blade is binding, it may walk up the workpiece when the Saw is restarted.

13. Do not use dull or damaged Blade. Dull or improperly set Blades produce a narrow cut causing excessive friction and Blade binding.

14. 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.

15. 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.)

16. 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

Improperly connecting the grounding wire can result in electric shock.

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

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
Double Insulated Tools: Tools with Two Prong Plugs

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.)

2. 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

1. Grounded tools require a three wire extension cord. Double Insulated tools can use either a two or three wire extension cord.

2. 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.)

4. 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.)

5. 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.)

6. 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.
7. 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.

### RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* (120/240 VOLT)

<table>
<thead>
<tr>
<th>NAMEPLATE AMPERES (at full load)</th>
<th>EXTENSION CORD LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>25 Feet</td>
</tr>
<tr>
<td>0 – 2.0</td>
<td>18</td>
</tr>
<tr>
<td>2.1 – 3.4</td>
<td>18</td>
</tr>
<tr>
<td>3.5 – 5.0</td>
<td>18</td>
</tr>
<tr>
<td>5.1 – 7.0</td>
<td>18</td>
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<tr>
<td>7.1 – 12.0</td>
<td>18</td>
</tr>
<tr>
<td>12.1 – 16.0</td>
<td>14</td>
</tr>
<tr>
<td>16.1 – 20.0</td>
<td>12</td>
</tr>
</tbody>
</table>

**TABLE A**

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

### Symbology

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<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td>❀</td>
<td>Double Insulated</td>
</tr>
<tr>
<td>V~</td>
<td>Volts Alternating Current</td>
</tr>
<tr>
<td>☑️</td>
<td>Canadian Standards Association</td>
</tr>
<tr>
<td>A</td>
<td>Amperes</td>
</tr>
<tr>
<td>☑️</td>
<td>Underwriters Laboratories, Inc.</td>
</tr>
<tr>
<td>n₀</td>
<td>No Load Revolutions per Minute (RPM)</td>
</tr>
<tr>
<td>xxxx/min.</td>
<td>No Load Revolutions per Minute (RPM)</td>
</tr>
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</table>
SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>Electrical Requirements</td>
<td>120 V~/ 60 Hz</td>
</tr>
<tr>
<td>Motor No Load Speed</td>
<td>8000 RPM</td>
</tr>
<tr>
<td>Blade Diameter</td>
<td>2&quot;</td>
</tr>
<tr>
<td>Arbor Size</td>
<td>7/16&quot;</td>
</tr>
<tr>
<td>Cutting Capacity</td>
<td>1/2&quot;</td>
</tr>
</tbody>
</table>

UNPACKING

When unpacking, check to make sure that the 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.

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<table>
<thead>
<tr>
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<th>Qty</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Saw Blade</td>
<td>2</td>
</tr>
<tr>
<td>Hex Wrench</td>
<td>2</td>
</tr>
</tbody>
</table>

SET UP 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.

WARNING Risk of accidental starting; resulting in serious personal injury. Leave the Power Switch of the tool “OFF” 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.

Installing the Saw Blade

1. If the Saw has been in use, allow the Blade to cool down before changing the Blade. Blades can become very hot when cutting.

2. Remove the Hole Cover (39) and use the 5mm Hex Wrench to remove the Nut (38).

3. Slide the Bolt (42) out and remove the Blade Guard (37) from the unit.
4. Use both the 5mm and 3mm Hex Wrench to remove the Roller Pin (2) and Roller (3).

5. Place the Blade on the Worm Wheel Shaft (18). Match the direction of the rotation arrow on the Blade with the direction of the rotation arrows on the housing.

6. Secure the Blade with the Roller and Roller Pin.

7. Replace Blade Guard and secure with the Nut and Bolt.

**WARNING** Always replace the Blade Guard on the Saw before starting work. It is dangerous to use this product without the Blade Guard securely attached.

**Setting the Cutting Depth**

1. When setting the cutting depth, the thickness of the material being cut should be taken into consideration. For best results:
   - when cutting wood, set the depth of the cut to be slightly greater than the thickness of the material.
   - when cutting plastic, set the depth of the cut to be slightly greater than the thickness of the material. If melting occurs, a greater depth setting should improve results.
   - when cutting metal, the depth of the cut should be set about 1mm greater than the thickness of the material. Do not cut steel or galvanized steel. When cutting sheet metal, allow the machine to rest three minutes for every two minutes of work.
   - this Saw is not recommended for cutting plasterboard because the dust may cause the Blade Guard to stick.
2. When cutting wood or plastic, the depth of the cut can be set to be slightly less than the thickness of the material to avoid marking the work surface, but this may result in a rough edge on the other side of the workpiece. To cut harder materials, different blades than the ones included with the Saw must be purchased.

3. The Depth Board (5) is ruled in millimeters; loosen the Depth Knob (4) and move it to the correct depth setting for the material being cut. For most materials, the depth gauge should be set about 1mm greater than the thickness of the material.

Note. When storing the Saw, the Depth Knob should be secured all the way down for increased safety.

Connecting the Dust Hose

1. Connect the small end of the Dust Hose (47) to the port behind the Blade.

2. Connect the large end of the Dust Hose to a dust collector or an industrial strength wet/dry vacuum (neither included).

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.

Note: At the front and back side of the saw base, two pointed indicators are located which are centered along the center of the blade slot. They are to be used as line tracer guides during cutting.

General operating instructions

1. Secure the material with clamps (not included) and mark the area to be cut.

2. Set an appropriate depth for the material being cut, as instructed above.

3. Place a piece of scrap material below the work piece to prevent possible damage to the reverse face of the work surface.

4. Turn the dust collector on.

5. Hold the Saw with both hands and push the power switch forward. Do not cover the vents. Allow
the Saw at least two seconds to reach full speed before addressing it to the
workpiece.

6. Press the Blade Guard release lock button and ease the Blade slowly into the
workpiece. The power switch must be held down for the Saw to continue to
operate.

7. Allow the Saw to cut at its own pace. Do not force the Saw. Only ease the Saw
forward, never pull it back.

8. If the LED light flashes, too much pressure is being applied and the operation
must slow down. If too much pressure continues to be applied, or if the Blade is
stopped by an obstacle, the Saw’s overload protection will stop the Blade and the
LED will shine steadily. If the Saw turns off, release the power switch and check
to see if there is an obstruction in the workpiece. Check the whole Blade to make
sure it is not damaged before continuing the operation at a slower pace.

9. When finished, release the power switch and allow the blade to come to a
complete stop before setting the Saw down. Turn off the dust collector.

**Starting a cut in the middle of a workpiece**

1. Set the depth of the cut and rest the Blade Guard on the workpiece.

2. Turn the tool on and allow it to build up to speed.

3. Push the lock button and then ease the Blade slowly into the workpiece.

4. Push the Saw along the line drawn for the cut.

5. Once the cut is finished lift the Saw away from the workpiece before turning it off.

6. 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.
MAINTENANCE AND SERVICING

WARNING
Risk of serious personal injury from accidental starting or electric shock. 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.

Damaged equipment can fail, causing serious personal injury. 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 EVERY USE**, clean external surfaces of the tool with clean, moist cloth. A buildup of dust will cause the Blade Guard to stick and may cause the unit to malfunction.

3. **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.

### PARTS LIST

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<th>Part</th>
<th>Description</th>
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<td>Right Housing</td>
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<td>2</td>
<td>Roller Pin</td>
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<td>3</td>
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<td>Nut M4</td>
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<td>Bearing</td>
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<td>10</td>
<td>Worm Gear</td>
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<tr>
<td>11</td>
<td>Big Gear</td>
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<td>12</td>
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<td>32</td>
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<td>33</td>
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<td>34</td>
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<td>Cover Bolt</td>
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</tr>
<tr>
<td>44</td>
<td>5mm Hex Wrench (not shown)</td>
<td>1</td>
</tr>
<tr>
<td>45</td>
<td>3mm Hex Wrench (not shown)</td>
<td>1</td>
</tr>
<tr>
<td>46</td>
<td>Blade (not shown)</td>
<td>2</td>
</tr>
<tr>
<td>47</td>
<td>Dust Hose (not shown)</td>
<td>1</td>
</tr>
</tbody>
</table>
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.

3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • (800) 444-3353

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.