Reciprocating Saw

Model 65298

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 Manual 10c
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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, 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 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 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 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-ap-
proved 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.

Reciprocating Saw Safety

**Warnings**

1. Hold power tool by insulated gripping surfaces when performing an operation where cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

2. Use clamps or another practical way to secure and support the work piece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

3. Do not cut material that is thicker than the Saw Blade is long.

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

5. Avoid unintentional starting. Prepare to begin work before turning on the tool.
6. 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.

7. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.

8. 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.

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

10. 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 Trigger 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.

11. 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.)

12. WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, et seq.)

13. 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. 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.

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.

**Double Insulated Tools: Tools with Two Prong Plugs**

![](Outlet.png)

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 Electri-
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**

<table>
<thead>
<tr>
<th>NAMEPLATE AMPERES (at full load)</th>
<th>EXTENSION CORD LENGTH</th>
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<tbody>
<tr>
<td></td>
<td>25'</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>
</tr>
<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>

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

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**Symbology**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
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<tbody>
<tr>
<td><img src="image" alt="Double Insulated" /></td>
<td>Double Insulated</td>
</tr>
<tr>
<td><img src="image" alt="Canadian Standards Association" /></td>
<td>Canadian Standards Association</td>
</tr>
<tr>
<td><img src="image" alt="Underwriters Laboratories, Inc." /></td>
<td>Underwriters Laboratories, Inc.</td>
</tr>
<tr>
<td><img src="image" alt="Volts Alternating Current" /></td>
<td>Volts Alternating Current</td>
</tr>
<tr>
<td><img src="image" alt="Amperes" /></td>
<td>Amperes</td>
</tr>
<tr>
<td><img src="image" alt="No Load Revolutions per Minute (RPM)" /></td>
<td>No Load Revolutions per Minute (RPM)</td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Electrical Requirements</th>
<th>120 V~ / 60 Hz / 7.5 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Plug</td>
<td>2-Prong, Polarized</td>
</tr>
<tr>
<td>Speed</td>
<td>0 to 2,400 SPM</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.

**ASSEMBLY**

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:
Make sure the Trigger of the Saw is in 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.

**Blade Installation**

1. Make sure the Trigger is in its “OFF” position and the Saw is unplugged from its electrical outlet.
2. Loosen Blade chuck by turning it counterclockwise.
3. Insert blade into Blade Chuck. Be sure blade is fully inserted and seated.
4. Tighten Blade Chuck by turning it clockwise.

**Adjusting the Pivoting Guide Shoe**

1. The Pivoting Guide Shoe serves as a rest during the cut, and can be adjusted in or out.
2. To adjust the Guide Shoe, loosen the two set screws at the base of the Guide Shoe, using the 3mm hex key included with the saw. Pull out or push in the Guide Shoe as desired, then retighten the set screws.
3. Do not attempt to use the saw if both screws are not tightened on the Guide Shoe.
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.

Work Piece 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 injury and distraction.

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 hazardous objects, such as utility lines or foreign objects, nearby that will present a hazard while working.

5. Check to make sure there is enough space under and behind the workpiece for the Saw Blade. Ensure you will not be cutting through any electrical wires, pipes, or your workbench.

Features

The Saw features a variable speed Trigger. For increased strokes per minute, squeeze the Trigger harder. For decreased strokes per minute, apply less pressure to the Trigger.

**NOTE:** When cutting softer materials, use a faster speed. When cutting harder materials, use a slower speed.

1. The maximum speed of the tool can be adjusted by rotating the dial located in the Trigger. Turn the dial toward the + sign to increase the maximum speed of the saw.

2. The Saw also features a continuous run Trigger Lock Button. To operate the tool for extended periods of time squeeze and hold the Trigger, then press the Trigger Lock Button. To unlock the Trigger lock mechanism,
squeeze and release the Trigger once.

**General Cutting**

1. Before plugging the Saw into its 120 volt, grounded, electrical outlet check to make sure the Trigger is not locked in the “ON” position. Press and release the Trigger once to make sure the Switch is unlocked and “OFF”.

2. Make any necessary adjustments to the tool as previously discussed, then plug the Power Cord into the nearest 120 volt, grounded, electrical outlet.

3. Hold the Saw firmly with both hands, then squeeze the Trigger to start the Saw.

**IMPORTANT:** Do not start the Saw if the Saw Blade is in contact with anything before operation. If necessary, lift the tool from the workpiece before squeezing the Trigger.

4. Once the Saw Blade is moving at full speed set the Pivoting Shoe of the tool on the workpiece.

5. With the Saw running, place the Saw Blade against the material to be cut. Do not force the Saw Blade into the workpiece. Use only enough pressure to keep the Saw cutting. Allow the Saw Blade to do the work.

6. If operating the Saw for an extended period, you may wish to lock the Trigger in its continuous run mode as previously discussed.

7. When finished cutting, release pressure on the Trigger to stop the tool. If the continuous run Trigger Lock was used, squeeze and release the Trigger once to stop the Saw. Then unplug the Saw from its electrical outlet.

**Plunge Cutting**

1. Mark the line of cut.

2. From a convenient starting point within the cut out area, place the tip of the Saw Blade over that point with the Saw parallel to the line of cut.

3. Slowly lower the Saw until the lower edge of the Pivoting Shoe rests on the workpiece.

4. Start the Saw and allow it to reach full speed.

5. With the Saw resting on the Pivoting Shoe, slowly lower the Saw Blade onto the cut line. Continue this motion until the Saw Blade is perpendicular to the workpiece.

**Metal Cutting**

1. When cutting metal materials with the Saw, make sure to use a metal Saw Blade designed for this purpose.

2. Lubricate the cutting surface with cutting oil to avoid heat build-up. Follow the “**General Cutting**” section in this manual.
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:
Make sure the Trigger of the Saw is in 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.

Inspection, Maintenance, and Cleaning

1. BEFORE EACH USE, inspect the general condition of the Saw. 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. CARBON BRUSH MAINTENANCE.
The carbon brushes may require maintenance when the motor performance of the tool decreases or stops working completely. To maintain the brushes:
   a. Remove the brush cap on the top and bottom 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 the brush caps. Do not overtighten.

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

3. AFTER USE, clean all external surfaces of the tool with clean cloth.

4. ⚠️ WARNING! If the Power Cord of this tool is damaged, it must be replaced only by a qualified service technician.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Possible Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool will not start.</td>
<td>1. No power at outlet. 2. Power Cord not connected.</td>
<td>1. Check power at outlet. 2. Check that Power Cord is plugged in.</td>
</tr>
<tr>
<td>Undesirable cutting action.</td>
<td>1. Dull Saw Blade. 2. Improper Saw Blade used. 3. Tool speed too slow. 4. Attempting to cut curves with tool.</td>
<td>1. Replace Saw Blade. 2. Use metal Saw Blades for cutting metal and wood Saw Blades for cutting wood. 3. Increase tool Speed by squeezing Trigger harder. 4. Use tool only to cut straight lines.</td>
</tr>
</tbody>
</table>

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

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**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.
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<td>Blade (Metal Cutting)</td>
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<td>Bearing Sleeve</td>
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<td>Axle Spring Retaining Ring</td>
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<td>Bearing 6002</td>
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<td>Spring Retaining Ring</td>
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<tr>
<td>44</td>
<td>Roller Bearing</td>
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<tr>
<td>45</td>
<td>Rear Oil Bearing</td>
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<td>Rear Gearbox</td>
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<td>Seal</td>
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<td>Bearing 629</td>
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<td>Fan</td>
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<td>Rotor</td>
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<td>51</td>
<td>Carbon Brush Assembly</td>
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<td>52</td>
<td>Left Housing</td>
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<td>Bearing 627</td>
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<tr>
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<td>55</td>
<td>Power Cord</td>
</tr>
<tr>
<td>56</td>
<td>Trigger</td>
</tr>
</tbody>
</table>

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.
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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