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.

Safety Alert Symbol and Signal Words

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

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.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF INJURY TO PERSONS

WARNING – When using tools, basic precautions should always be followed, including the following:

General

a. To reduce the risks of injury to persons, read all the instructions before using this Die Grinder.

Work area

a. Keep the work area clean and well lighted. Cluttered benches and dark areas increase the risks of injury to persons.

b. Keep bystanders, children, and visitors away while operating the Die Grinder. Distractions are able to result in the loss of control.

Personal safety

a. Stay alert. Watch what you are doing and use common sense when operating this Die Grinder. Do not use while tired or under the influ-
ence of drugs, alcohol, or medication. A moment of inattention while operating increases the risk of injury.

b. **Dress properly.** Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair increases the risk of injury as a result of being caught in moving parts.

c. **Avoid unintentional starting.** Be sure Control Lever (4) is not depressed before connecting to the air supply. Do not carry with your finger on the Control Lever (4) or connect the Die Grinder to the air supply with the Control Lever (4) depressed.

d. **Do not overreach.** Keep proper footing and balance at all times. Proper footing and balance enables better control of the Die Grinder in unexpected situations.

e. **Use safety equipment.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions. Wear heavy-duty work gloves during use.

f. **Always wear eye protection.** Wear ANSI-approved safety goggles.

g. **Always wear hearing protection when using the Die Grinder.** Prolonged exposure to high intensity noise is able to cause hearing loss.

h. **Risk of Electric Shock.** This tool is not provided with an insulated gripping surface. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.

### Tool use and care

a. **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against the body is unstable and is able to lead to loss of control.

b. **Do not force the Die Grinder.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.

c. **Do not use the Die Grinder if the Control Lever (4) does not turn the tool on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.

d. **Disconnect the Die Grinder from the air source before making any adjustments, changing accessories, or storing.** Such preventive safety measures reduce the risk of starting unintentionally. Release the Control Lever (4) and detach the air supply. Safely discharge any residual air pressure before leaving the work area.

e. **Store the idle Die Grinder out of reach of children and other untrained persons.** Any tool is dangerous in the hands of untrained users.

f. **Maintain the tool with care.** Keep a cutting or grinding tool sharp and clean. A properly maintained tool, with sharp cutting edges and clean grinding surfaces reduces the risk of binding and is easier to control.
g. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects this tool’s operation.** If damaged, have the Die Grinder serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.

h. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

**Service**

a. **Service to this Die Grinder must be performed only by qualified repair personnel.**

b. **When servicing this tool, use only identical, authorized, replacement parts.**

c. **Use only the lubricants supplied with the tool or specified by the manufacturer.**

**Air source**

a. **Never connect to an air source that is capable of exceeding 200 psi.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.

b. **Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.** Such gases are capable of explosion and serious injury to persons.

!!! **SAVE THESE INSTRUCTIONS.**

---

**SYMBOLS AND SPECIFIC SAFETY INSTRUCTIONS**

**Symbol Definitions**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Property or statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>(n_0)</td>
<td>No-load speed</td>
</tr>
<tr>
<td>.../min</td>
<td>Revolutions or reciprocation per minute</td>
</tr>
<tr>
<td>PSI</td>
<td>Pounds per square inch of pressure</td>
</tr>
<tr>
<td>ft-lb</td>
<td>Foot-pounds of torque</td>
</tr>
<tr>
<td>BPM</td>
<td>Blows per minute</td>
</tr>
<tr>
<td>CFM</td>
<td>Cubic Feet per Minute flow</td>
</tr>
<tr>
<td>SCFM</td>
<td>Cubic Feet per Minute flow at standard conditions</td>
</tr>
<tr>
<td>NPT</td>
<td>National pipe thread, tapered</td>
</tr>
<tr>
<td>NPS</td>
<td>National pipe thread, straight</td>
</tr>
</tbody>
</table>

**WARNING** marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection.

**WARNING** marking concerning Risk of Hearing Loss. Wear hearing protection.

**WARNING** marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.

Chart continued in next column.
Symbol Definitions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Property or statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>☭</td>
<td>WARNING marking concerning Risk of Explosion.</td>
</tr>
</tbody>
</table>

Specific Safety Instructions

1. WARNING: To prevent serious injury:

2. Wear ANSI-approved safety goggles during set up and use.

3. Accessories must be rated to at least 20,000 RPM.

4. The warnings and precautions discussed in this 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.

5. WARNING: 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.)

6. Only use with accessories rated to handle the forces exerted by this tool during operation. Other accessories not designed for the forces generated may break and forcefully launch pieces.

7. Attach all accessories properly to the tool before connecting the air supply. A loose accessory may detach or break during operation.

8. Obey the manual for the air compressor used to power this tool.

9. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.

10. Use this tool with both hands only. Using tools with only one hand can result in loss of control.

11. 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.

Vibration Precautions

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 tool as explained in this manual. If abnormal vibration occurs, stop immediately.

SAVE THESE INSTRUCTIONS.

FUNCTIONAL DESCRIPTION

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Air Pressure</td>
<td>90 PSI</td>
</tr>
<tr>
<td>Air Inlet</td>
<td>1/4&quot; -18 NPT Female</td>
</tr>
<tr>
<td>Maximum Speed*</td>
<td>20,000 RPM</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>3 CFM @ 90 PSI</td>
</tr>
<tr>
<td>Batteries</td>
<td>(3) LR44 Button Batteries (Included)</td>
</tr>
<tr>
<td>Light</td>
<td>Single Clear 5mm OD LED Bulb</td>
</tr>
<tr>
<td>Light Activation</td>
<td>Push Button, Two Position</td>
</tr>
</tbody>
</table>

* Maximum speed at stated maximum air pressure. Excess air pressure is hazardous and may cause the tool to exceed stated maximum speed.

Components and Controls

Figure 1

Air Inlet (1) On/Off Button for LED (37)

Control Lever (4) Clamp Nut (32)
INITIAL TOOL SET UP/ 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.

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

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 throughout the manual as soon as possible.

- This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

Air Supply

**WARNING** TO PREVENT EXPLOSION:

Use only clean, dry, regulated, compressed air to power this tool. Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

1. Incorporate an in-line oiler, shut-off valve, regulator with pressure gauge, and filter for best service, as shown in the diagram above. **An in-line shut-off valve is an important safety device because it controls the air supply even if the air hose is ruptured.**

   **Note:** If an automatic oiler system is not used, add a few drops of Pneumatic Tool Oil to the airline connection before operation. Add a few more drops after each hour of continual use.

2. Attach an air hose to the compressor’s air outlet. Connect the air hose to the air inlet of the tool. Other components, such as a connector and quick coupler, will make operation more efficient, but are not required.

**WARNING!** TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Do not install a female quick coupler on the tool. Such a coupler contains an air valve that will allow the air tool to retain pressure and
operate accidentally after the air supply is disconnected.

**Note:** Air flow, and therefore tool performance, can be hindered by undersized air supply components.

3. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.

4. Make sure the tool’s throttle or switch is in the off position; refer to Operation section for description of controls.

5. Close the in-line safety valve between the compressor and the tool.

6. Turn on the air compressor according to the manufacturer’s directions and allow it to build up pressure until it cycles off.

7. Adjust the air compressor’s output regulator so that the air output is enough to properly power the tool, but the output will not exceed the tool’s maximum air pressure at any time. Adjust the pressure gradually, to set the right pressure range.

8. Inspect the air connections for leaks.

9. If the tool will not be used at this time, turn off and detach the air supply, safely discharge any residual air pressure, and release the Control Lever (4) to prevent accidental operation.

**Note:** Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and not powered.

**OPERATING INSTRUCTIONS**

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

Inspect tool before use, looking for damaged, loose, and missing parts. If found, do not use tool until repaired.

**Tool Set Up**

**WARNING** TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Release the Control Lever (4), detach the air supply, safely discharge any residual air pressure in the tool, before performing any inspection, maintenance, or cleaning procedures.

**TO PREVENT SERIOUS INJURY:**
Do not adjust or tamper with any control or component in a way not specifically explained within this manual. This can result in tool failure or other serious hazards.

**NOTE:** Grinding attachments (tools) are necessary for using this Die Grinder. They are not included but are available at Harbor Freight Tools.
Grinding Attachment Installation

1. Select the grinding attachment appropriate to your needs.

2. Select the Collet (31) that has the correct diameter (either 1/4" or 1/8").

3. Insert the Collet (31) into the Clamp Nut (32). See Figure 2.

4. Thread the Clamp Nut (32) onto the Chuck Casing (29) a few turns.

5. Insert the shaft of the grinding attachment (not supplied) through the flared end of the Collet (31). See Figure 3.

6. Place Wrench (35) onto the flat edges of the Chuck Casing (29), hold steady.

7. Place Wrench (36) onto the flat edges of the Clamp Nut (32) and tighten in counterclockwise motion. See Figure 4.

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 air hose along a safe route to reach the work area without creating a tripping hazard or exposing the air hose to possible damage. The air hose must be long enough to 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.

**General Operating Instructions**

1. If an automatic oiler is not used, add a few drops of Pneumatic Tool Oil to the airline connection before use. Add a few drops more after each hour of continual use.

2. This Die Grinder has a variable speed control. By squeezing the Control Lever (4) you can control the speed of the action. Squeeze more for higher speed and less for slower speed.

3. If you are working in tight areas where light is a premium, switch on the LED Light (38) by pushing the Switch (37). When (or if) light is not needed be sure to turn off by depressing the Switch (37).

4. To begin, grip the Die Grinder firmly. Start grinding by squeezing the Control Lever (4) gently before you touch the Die Grinder to the work surface.

5. Allow the grinding attachment (not included) to do the work. Do not use excessive force against the surface you are grinding. If you place too much pressure on the workpiece and the Die Grinder stalls, immediately release the Control Lever (4) and pull the Die Grinder away from the work surface. If the tool requires more force to accomplish the task, verify that the tool is receiving sufficient, unobstructed airflow (CFM) and increase the pressure (PSI) output of the regulator up to the maximum air pressure rating of this tool (90PSI).

6. **CAUTION! TO PREVENT TOOL AND ACCESSORY FAILURE, RESULTING IN INJURY:**
   Do not exceed the tool’s maximum air pressure rating of 90 PSI. If the tool still does not have sufficient force at maximum pressure and sufficient airflow, then a larger tool may be required.

7. To prevent accidents, when finished working, release the Control Lever (4), detach the air supply, safely discharge any residual air pressure.

8. Clean external surfaces of the tool with clean, dry cloth, and apply a thin coat of tool oil. Then store the tool indoors out of children’s reach.

### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Possible Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Die Grinder not achieving full RPM speed</td>
<td>1. Problem with air supply.</td>
<td>1. Check air hoses and replace if necessary. NEVER repair air hoses.</td>
</tr>
<tr>
<td></td>
<td>2. Faulty regulator on compressor.</td>
<td>2. Check regulator and replace if needed.</td>
</tr>
<tr>
<td>Grinder is not shaving metal fast enough</td>
<td>1. Grinding attachment is not coarse enough.</td>
<td>1. Change grit of grinding attachment. Higher numbers, more coarse. Smaller numbers, less coarse.</td>
</tr>
</tbody>
</table>
USER-MAINTENANCE INSTRUCTIONS

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

**WARNING**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Release the Control Lever (4), detach the air supply, and safely discharge any residual air pressure before performing any inspection, maintenance, or cleaning procedures.

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

TO PREVENT EXPLOSION:
Lubricate the tool only with specified lubricants. Lubricate the air inlet using only pneumatic tool oil. Lubricate the internal mechanism using only white lithium grease. Other lubricants may damage the mechanism and may be highly flammable, causing an explosion.

Cleaning, Maintenance, and Lubrication

**Note:** These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

1. **Daily - Air Supply Maintenance:**
Every day, perform maintenance on the air supply according to the component manufacturers’ instructions. The lubricator’s oil level needs to be maintained and the moisture filter must be regularly drained. Performing routine maintenance on the air supply will allow the tool to operate more safely and will also reduce wear on the tool.

2. **Weekly - Grease Lubrication:**
Lubricate the internal mechanism of the tool, using white lithium grease through the grease fittings.

3. **Quarterly (every 3 months) - Tool Disassembly, Cleaning, and Inspection:**
Have the internal mechanism cleaned, inspected, and lubricated by a qualified technician. If the Vanes (19) need replacement, all vanes should be replaced as a set.

**Battery Replacement**

1. Remove the Switch (37) by turning it counterclockwise until it releases from the top of the Angle Head (26).

2. Turn the Die Grinder over and the three Batteries (40) will drop out of the Battery Compartment.

3. Replace the used Batteries with new, fresh Batteries identical to the Batteries that were removed. Use caution
and place new batteries in correct polarity positions matching the old/used batteries.

4. NOTE: Always dispose of old, used batteries in accordance with all local, state and federal regulations. NEVER incinerate batteries. NEVER mix old and new batteries.

5. Replace the Switch (37) by threading it onto the top of the Angle Head (26).

**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.

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.

<table>
<thead>
<tr>
<th>No #</th>
<th>DESCRIPTION</th>
<th>Q'TY</th>
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<td>1</td>
<td>Inlet</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>End Cap</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Housing</td>
<td>1</td>
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<tr>
<td>4</td>
<td>Control Lever</td>
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<tr>
<td>5</td>
<td>Spring Pin</td>
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<td>Bushings</td>
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<td>7</td>
<td>Valve</td>
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<td>Spring</td>
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<td>O-Ring</td>
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<td>Bevel Gear</td>
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<td>25</td>
<td>Nut</td>
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<td>27</td>
<td>Bevel Gear</td>
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<td>32</td>
<td>Clamp Nut</td>
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<td>O-Ring</td>
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<tr>
<td>34</td>
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</tr>
<tr>
<td>35</td>
<td>Wrench 11MM</td>
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<tr>
<td>36</td>
<td>Wrench 17MM</td>
<td>1</td>
</tr>
<tr>
<td>37</td>
<td>Switch (ON/OFF)</td>
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<tr>
<td>38</td>
<td>LED</td>
<td>1</td>
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<tr>
<td>39</td>
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<tr>
<td>40</td>
<td>Batteries</td>
<td>3</td>
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</tbody>
</table>
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.