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.

80 PIECE
Rotary Tool Set

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

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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WARNING
Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.
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Safety ............................................. 3  Maintenance ........................................ 13
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Setup ............................................. 9  Warranty ............................................ 16
Operation ....................................... 11

WARNING SYMBOLS AND DEFINITIONS

<table>
<thead>
<tr>
<th>SYMBOL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Safety Alert Symbol" /></td>
<td>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.</td>
</tr>
<tr>
<td><img src="image" alt="DANGER" /></td>
<td>Indicates a hazardous situation which, if not avoided, will result in death or serious injury.</td>
</tr>
<tr>
<td><img src="image" alt="WARNING" /></td>
<td>Indicates a hazardous situation which, if not avoided, could result in death or serious injury.</td>
</tr>
<tr>
<td><img src="image" alt="CAUTION" /></td>
<td>Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.</td>
</tr>
<tr>
<td><img src="image" alt="NOTICE" /></td>
<td>Addresses practices not related to personal injury.</td>
</tr>
</tbody>
</table>
IMPORTANT SAFETY INFORMATION

General Power Tool Safety Warnings

⚠️ WARNING ⚠️

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (corded) power tool.

Work area safety

1. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
2. 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.
3. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

1. 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.
2. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
3. 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.
4. 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.
Personal safety

1. 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.

2. 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.

3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source, 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.

4. 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.

5. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

6. 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.

7. 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.

8. 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.
Power tool use and care

1. 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.

2. 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.

3. 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.

5. 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.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. 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.

Service

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.
Rotary Tool Safety Warnings

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.

5. Do not depress the spindle lock when starting or during operation.

6. 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.

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

8. 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 and 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.)

9. WARNING: The cord of this product contains lead and/or di (2-ethylhexyl) phthalate (DEHP), chemicals 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.)

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.

11. 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 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.

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. 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.

This tool’s power adapter may be used in either of the 120 volt outlets shown in the preceding illustration. (See Figure A.)

Figure A: Outlets for 2-Prong Plug

Extension Cords

Note: Extension cords must not be used with this item’s power adapter.

Symbology

<table>
<thead>
<tr>
<th>Table A: Symbology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double Insulated</td>
</tr>
<tr>
<td>Canadian Standards Association</td>
</tr>
<tr>
<td>Underwriters Laboratories, Inc.</td>
</tr>
<tr>
<td>V~ Volts Alternating Current</td>
</tr>
<tr>
<td>A Amperes</td>
</tr>
<tr>
<td>n xxxx/ min. No Load Revolutions per Minute (RPM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Table A: Symbology</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.</td>
</tr>
<tr>
<td>Read the manual before set-up and/or use.</td>
</tr>
<tr>
<td>WARNING marking concerning Risk of Fire. Do not cover ventilation ducts.</td>
</tr>
</tbody>
</table>
### Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tool Input</td>
<td>12VDC</td>
</tr>
<tr>
<td>Adapter Input</td>
<td>120V~/ 60Hz</td>
</tr>
<tr>
<td>Rotation Speed</td>
<td>16,000 RPM</td>
</tr>
<tr>
<td>Collet Size</td>
<td>1mm, 3mm, 3/32”, and 1/8&quot;</td>
</tr>
</tbody>
</table>

### Setup - Before Use:

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.

### Functions

1/8” Shank with Buffing Wheel

Power Switch

Collar

Lock Button
Accessories

**Note:** Refer to “Parts List and Diagram” on page 14 for accessory illustrations.

- Use the Diamond Burr Bits (4) to drill hard, brittle materials, such as tile.
- Use the Mounted Stones (5) for sharpening cutting tools, screwdrivers etc, deburring metal after cutting, and removing excess material on metal and ceramics.
- Use the Sanding Drums (6) to smooth out rough areas on soft materials.
- Use the Cut-off Wheels (7) for cutting, carving and slotting materials.
- Use the Buffing Wheels (8) for polishing.
- Use the Wire Wheels (9) to clean dirty or rusted surfaces.
- Use the Whet Stone (10) for sharpening.
- Use the Drill Bits (11) to bore small holes.
- Mandrels are the shanks with a threaded or screw head. Use them with the cut-off wheels, polishing wheels, and sanding discs. The shank without threads on the end is for the felt polishing wheels.

For technical questions, please call 1-888-866-5797. Item 63292
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.

Tool Set Up

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before installing accessories.

1. Hold the Lock Button down and unscrew the Collar.
2. Choose the right Accessory for the job (see “Accessories” on page 10) and the Collet that matches the Accessory’s shank.
3. Insert the Collet into the Rotary Tool.
4. Place the Collar over the Collet, but do not tighten yet.
5. Insert the Accessory’s shank into the Collet.
6. Hold the Lock Button down, and tighten the Collar.
7. Release the Lock Button. Pull on the Shank to ensure that it is secure.

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 distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose work pieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.
General Operating Instructions

1. Plug the Power Adapter into a standard, grounded 120V electrical outlet.
2. Connect the Rotary Tool to the Power Adapter.
3. Turn the Power Switch “ON” and allow the Rotary Tool to come up to full speed before beginning work.
4. Contact the material lightly. Do not press hard on the tool while working; allow the tool to work at its own pace. It is better to make several shallow passes than to make one deep pass.
5. 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.
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:
Turn the Power Switch of the tool to its “OFF” position and unplug the tool from its electrical outlet before 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.

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 USE**, clean external surfaces of the tool with clean, moist cloth.

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 and Diagram

### Parts List

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rotary Tool</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Power Adapter</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>Collet</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>Diamond Burr Bit (3/32” Shank)</td>
<td>20</td>
</tr>
<tr>
<td>5</td>
<td>Mounted Stone (3/32” Shank)</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>Sanding Drum (3/32” Shank)</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>Cut-off Wheel (1/8” Shank)</td>
<td>25</td>
</tr>
<tr>
<td>8</td>
<td>Buffing Wheel (1/8” Shank)</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>Wire Wheel (1/8” Shank)</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Whet Stone</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Drill Bit (1mm, 3mm, 3/32” &amp; 1/8”)</td>
<td>4</td>
</tr>
</tbody>
</table>

**Record 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 arising from the use of our product. 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.