

Model 68148

SET UP AND OPERATING INSTRUCTIONS



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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 indicates a **A** DANGER hazardous situation which, if not avoided, will result in death or serious injury.

WARNING indicates a AWARNING hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION, used with **ACAUTION** 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 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 iniurv.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or batteryoperated (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. Do not expose power tools to rain or wet conditions. Water

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- entering a power tool will increase the risk of electric shock.
- c. 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.
- d. 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.
- e. 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, nonskid 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 offposition 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. Do not overreach. Keep proper footing and balance at all times.

 This enables better control of the power tool in unexpected situations.
- e. 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.
- f. 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.

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.

Breaker Hammer Safety Warnings

- 1. Wear ear protectors. Exposure to noise can cause hearing loss.
- 2. Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.
- Hold power tools by insulated 3. gripping surfaces when performing an operation where the 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.
- Keep clear of moving parts. 4.

- 5. Unplug before inspecting, removing or installing chisel, or performing any service.
- 6. Pull on chisel after installation and before use; chisel may move but MUST NOT slide out.
- 7. Do not operate this tool if you have back, neck, or wrist injuries, or other conditions that will be aggravated by the severe jerking forces that this tool exerts upon the operator.
- 8. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- 9. Avoid unintentional starting. Prepare to begin work before turning on the tool.
- 10. 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.
- 11. When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- 12. 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.
- 13. This product is not a toy. Keep it out of reach of children.
- 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.
 - 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. 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.)

- 16. 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.)
- 17. 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. 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.



GROUNDING

AWARNING

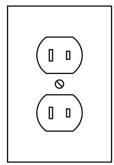
TO PREVENT ELECTRIC SHOCK

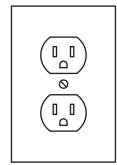
AND DEATH FROM INCORRECT **GROUNDING WIRE** CONNECTION:



Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Double Insulated Tools: Tools with Two Prong Plugs





Outlets for 2-Prong Plug

- 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.
- 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

- **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.)
- 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.

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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) | | | | | |
|--|--------------------------|-----|-----|------|------|
| NAMEPLATE | EXTENSION CORD LENGTH | | | | |
| AMPERES | | | | | |
| (at full load) | 25' | 50' | 75' | 100' | 150' |
| 0 – 2.0 | 18 | 18 | 18 | 18 | 16 |
| 2.1 – 3.4 | 18 | 18 | 18 | 16 | 14 |
| 3.5 – 5.0 | 18 | 18 | 16 | 14 | 12 |
| 5.1 – 7.0 | 18 | 16 | 14 | 12 | 12 |
| 7.1 – 12.0 | 18 | 14 | 12 | 10 | - |
| 12.1 – 16.0 | 14 | 12 | 10 | - | - |
| 16.1 – 20.0 | 12 | 10 | _ | - | - |
| * Based on limiting the line TABLE A voltage drop to five volts at 150% of the rated amperes. | | | | | |

Symbology

| | Double Insulated |
|--------------------------|---|
| ● • | Canadian Standards Association |
| (UL) | Underwriters Laboratories, Inc. |
| V~ | Volts Alternating Current |
| Α | Amperes |
| n ₀ xxxx/min. | No Load Revolutions per Minute (RPM) |

SPECIFICATIONS

| Electrical Input | 120 V~ / 60 Hz / 10 A |
|----------------------|--|
| Blows Per Minute | 3100 BPM |
| Chisels (included) | 1 Bull Point 1 Flat Point |
| Other Accessories | 1 Oil Bottle 1 Carbon Brush Set 1 5mm Hex Key 1 Oil Tank Wrench |

UNPACKING

When unpacking, make sure the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

INSTRUCTIONS FOR PUTTING INTO USE



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

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

Functions

Use Figure 1 below as reference during Tool Setup and Operation.



Page 8 For technical questions, please call 1-800-444-3353.

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

AWARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL
OPERATION: Turn Power Switch
off and unplug the tool from its
electrical outlet before adjusting
tool or installing accessories.

Work Piece and Work Area Set Up

- 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.
- 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.

Mounting Tool Bits and Locking Side Handle

 WARNING! Before installing new bit, verify Demolition Hammer is unplugged.

- 2. Pull the Chuck (35) back to open. **NOTE:** If the Chuck is difficult to open, lightly tap it with a hammer.
- Insert the shank portion of the chisel into Chuck as far as it will go. Release the Chuck
- 4. Pull chisel to verify it is secure.
- 5. The Side Handle (62) can swing around to either side of the tool. To adjust its position, turn it counterclockwise and slide to the desired position.

 Turn it clockwise to lock it in place.

General Operating Instructions

- 1. Once the chisel is installed and the Side Handle set in the desired position, set the tip of the bit is set against the work area.
- 2. Place one hand on the Side Handle and the other hand around the Main Handle (74).
- 3. Press the Trigger (69) to activate the Demolition Hammer.
- 4. **NOTE:** For continuous operation, press the Trigger Switch and then push the lock button located above the Trigger Switch. To stop the continuous use, press the Trigger Switch down all the way and then release the Trigger Switch.
- 5. **WARNING!** Once activated, do not press, bear down or thrust forcibly against the work surface. Hold the Demolition Hammer with just enough pressure so that the tool's own weight supplies the needed force.
- NOTE: If the Demolition Hammer has not been used for a long period of time or is being used in low temperatures, keep the tool running for about five minutes to allow for warm-up. Make

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- sure the Trigger Switch properly actuates when pressed and that the tool turns off when its released.
- 7. When work is complete, release the Trigger Switch.
- 8. 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



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

NOTE: The Demolition Hammer will cease operation once Carbon Brushes are worn. Check Brushes every 100 hours and, when necessary, replace them.

AWARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL
OPERATION: Release Trigger
Switch and unplug tool from its
electrical outlet before
performing inspection,
maintenance, or cleaning.

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.

Maintenance, and Lubrication

 BEFORE EACH USE, inspect the general condition of the tool. Check for loose hardware, 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**, wipe external surfaces of the tool with clean cloth.
- Wipe tool with a lint-free cloth after each use to remove all dust and grit from the tool.

NOTE: The Demolition Hammer has an air-tight construction, allowing for three months of continuous usage before any lubrication is needed.

- 4. To add lubricating grease, use the Tank Cover Wrench (91) to open the Tank Cover (12). See Figure 1 on page 8.
- 5. Fill with 1/8 ounce of lubricating grease and replace Tank Cover.
- 6. Examine tool before each use. Make sure Chisel is sharp and not dull or cracked. Replace worn or broken Chisels with approved replacement Chisels from Harbor Freight Tools.
- 7. Check that all mounting screws are tightened. Retighten any loose screws.
- 8. Store in temperatures no lower than 50-60° F.

Replacing Carbon Brushes

NOTE: The Demolition Hammer will cease operation once Carbon Brushes are worn. Check Brushes every 100-120 hours and, when necessary, replace them.

1. Use screwdriver to remove Carbon Brush Cover (54). See Figure 1 on page 8.

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- 2. Remove the Rubber Cap (53) and then slide out the Carbon Brush Holder (51B).
- 3. Remove the Brush Cap (52) from the Carbon Brush Holder.
- Remove old Carbon Brush (51) from Carbon Brush Holder and insert new Carbon Brush into Carbon Brush Holder.
- Replace Brush Cap and slide Carbon Brush Holder back into Housing. Replace Carbon Brush Cover.

6. **WARNING!** Verify all bolts and connectors are fastened tight.

Cleaning

- 1. Clean the Demolition Hammer with warm water, soap a soft cloth, preferably after each use.
- 2. **WARNING!** Do not use solvents when cleaning the Electric Hammer. Doing so can damaged the tool.

Troubleshooting

| Problem | Possible Causes | Likely Solutions |
|-----------------------|---|---|
| Tool will not start. | Cord not connected. | Check that cord is plugged in. |
| | 2. No power at outlet. | Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. |
| | Tool's thermal reset breaker tripped (if equipped). | Turn off tool and allow to cool. Press reset button on tool. |
| | Internal damage or wear. (Carbon brushes or switch, for example.) | 4. Have technician service tool. |
| Tool operates slowly. | | Eliminate use of extension cord. If an extension |
| | wire size too small. | cord is needed, use shorter/heavier gauge cord. See Extension Cords in GROUNDING section. |
| Performance | Accessory dull or damaged. | Keep cutting accessories sharp. |
| decreases over time. | | Replace as needed. |
| | Carbon brushes worn or damaged. | Have qualified technician replace brushes. |
| Excessive noise | Internal damage or wear. (Carbon | Have technician service tool. |
| or rattling. | brushes or bearings, for example.) | |
| Overheating. | Forcing tool to work too fast. | Allow tool to work at its own rate. |
| | Accessory misaligned. | Check and correct accessory to fence and/or table alignment. |
| | 3. Accessory dull or damaged. | Keep cutting accessories sharp. Replace as needed. |
| | 4. Blocked motor housing vents. | 4. Wear ANSI-approved safety goggles and NIOSH- approved dust mask/respirator while blowing dust out of motor using compressed air. |
| | Motor being strained by long or small diameter extension cord. | 5. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See <i>Extension Cords</i> in <i>GROUNDING</i> section. |



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

PARTS LIST

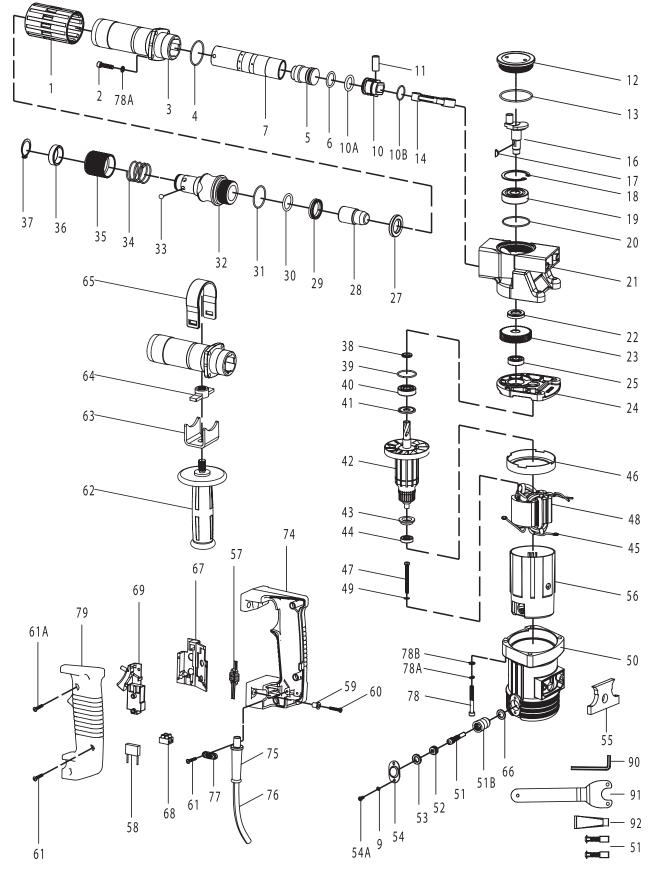
| Part | Description | Qty |
|------|--------------------------------|-----|
| 1 | Rubber Ring | 1 |
| 2 | Hex Socket Bolt (M6X25) | 4 |
| 3 | Cylinder Cover | 1 |
| 4 | O-Ring (Ø44xØ2) | 1 |
| 5 | Impact Piston | 1 |
| 6 | O-Ring (Ø24xØ3) | 1 |
| 7 | Cylinder | 1 |
| 9 | Spring Washer (Ø3) | 4 |
| 10 | Press Piston | 1 |
| 10A | O-Ring (Ø22xØ4) | 1 |
| 10B | O-Ring (Ø24xØ1.8) | 1 |
| 11 | Steel Pin | 1 |
| 12 | Oil Tank Cover | 1 |
| 13 | O-Ring (Ø55xØ2.5) | 1 |
| 14 | Connecting Rod | 1 |
| 15 | Needle Bearing (HK 12/12-1) | 1 |
| 16 | Crank Shaft | 1 |
| 17 | Key (4x13) | 2 |
| 18 | Retaining Ring (Ø47) | 1 |
| 19 | Ball Bearing (6303) | 1 |
| 20 | O-Ring (Ø46.5xØ2) | 1 |
| 21 | Gear Box | 1 |
| 22 | Oil Seal Ring (Ø18xØ30x6) | 1 |
| 23 | Gear | 1 |
| 24 | Inner Cover | 1 |
| 25 | Ball Bearing (6001) | 1 |
| 26 | Impact Block Ring | 1 |
| 27 | Needle Bearing (BK1312) | 1 |
| 28 | Impact Hammer | 1 |
| 29 | L-Ring (Ø27xØ36x6.5) | 1 |
| 30 | O-Ring (Ø26.4xØ3.5) | 1 |
| 31 | O-Ring (Ø38xØ2) | 1 |

| Part | Description | Qty |
|------|-----------------------------|-----|
| 32 | Front Cover | 1 |
| 33 | Steel Ball (Ø8) | 6 |
| 34 | Compress Spring | 1 |
| 35 | Chuck | 1 |
| 36 | Ball Press | 1 |
| 37 | Retaining Ring (Ø28) | 1 |
| 38 | Seal Ring | 1 |
| 39 | O-Ring (Ø31.5xØ2) | 1 |
| 40 | Ball Bearing (6201) | 1 |
| 41 | Dust Seal | 1 |
| 42 | Armature | 1 |
| 43 | Insulation Washer | 1 |
| 44 | Ball Bearing (608) | 1 |
| 45 | Brush Terminal | 2 |
| 46 | Fan Guide | 1 |
| 47 | Tapping Screw (ST4.8x58) | 2 |
| 48 | Stator | 1 |
| 49 | Flat Washer (Ø5) | 2 |
| 50 | Housing | 1 |
| 51 | Carbon Brush | 2 |
| 51B | Brush Holder | 2 |
| 52 | Brush Cap | 2 |
| 53 | Rubber Cap | 2 |
| 54A | Machine Screw (M4x8) | 4 |
| 54 | Carbon Brush Cover | 2 |
| 55 | Insulator | 1 |
| 56 | Stator | 1 |
| 57 | Sensor | 1 |
| 58 | Capacitor | 1 |
| 59 | Connector | 4 |
| 60 | Hex Socket Bolt (M6x20) | 4 |
| 61 | Tapping Screw (ST4.2x18) | 3 |
| 61A | Tapping Screw (ST4.2x22) | 2 |
| 62 | Side Handle | 1 |

| Part | Description | Qty |
|------|-----------------------------|-----|
| 63 | Side Handle Base | 1 |
| 64 | Handle Nut | 1 |
| 65 | Side Handle Clamp | 1 |
| 66 | Insulating Washer | 2 |
| 67 | Support | 1 |
| 68 | Rivet | 4 |
| 69 | Trigger | 1 |
| 74 | Main Handle | 1 |
| 75 | Cord Protector | 1 |
| 76 | Cord | 1 |
| 77 | Cord Clip | 1 |
| 78 | Hex Socket Bolt (M6x50) | 4 |
| 78A | Spring Washer (Ø6) | 8 |
| 78B | Flat Washer (Ø6x (Ø10.5) | 4 |
| 79 | Main Handle Cover | 1 |
| 90 | Hex Bar Wrench (5mm) | 1 |
| 91 | Tank Cover Wrench | 1 |
| 92 | Oil Bottle | 1 |

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ASSEMBLY DIAGRAM



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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.

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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