



## Demolition Breaker Hammer

Owner's Manual



**⚠ WARNING:** Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item #61474

**READ & SAVE THESE INSTRUCTIONS**

Thank you very much for choosing an Ironton™ product!

For future reference, please complete the owner's record below:

Serial Number/Lot Date Code: \_\_\_\_\_

Purchase Date: \_\_\_\_\_

Save the receipt, warranty, and this manual. It is important that you read the entire manual to become familiar with this product before you begin using it.

This demolition breaker hammer is designed for certain applications only. Northern Tool and Equipment is not responsible for issues arising from modification or improper use of this product such as an application for which it was not designed. We strongly recommend that this product not be modified and/or used for any application other than that for which it was designed.

For technical questions, please call **1-800-222-5381**.

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## Intended Use

The Ironton Demolition Breaker Hammer has a demolition hammer with an impact rate of 1900 BPM with 18 ft./lb. of impact energy. This pro demolition hammer powers through concrete and mortar with ease. With industry-leading anti-vibration control, this high-powered demolition hammer gets the job done without wearing you out.

## Packaging Contents

- Hammer
- Handle
- 2 Chisels
- Owner's Manual

## Technical Specifications

Property	Specification
Motor	110V, 60Hz, 12.5A
Chuck	SDS MAX Type
Impact Rate	1900 BPM

## Important Safety Information

### **⚠️WARNING**

- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This product will be safer and do a better job at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.

### **⚠️WARNING**

#### **WORK AREA SAFETY**

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury. Using the product in confined work areas may put you dangerously close to cutting tools and rotating parts.

- Do not use the product where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The product can create sparks, which may ignite the flammable liquids, gases, or dust.
- Do not allow the hammer to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the product.
- Be aware of all power lines, electrical circuits, water pipes, and other mechanical hazards in your work area. Some of these hazards may be hidden from your view and may cause personal injury and/or property damage if contacted.

## **⚠️WARNING**

### **PERSONAL SAFETY**

- Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- Do not overreach. Keep proper footing and balance at all times.
- Remove keys or wrenches before connecting the tool to an air supply, power supply, or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may cause personal injury.
- Secure the work with clamps or a vise instead of your hand when practical. This safety precaution allows for proper tool operation using both hands.

## **⚠️CAUTION**

### **DEMOLITION BREAKER HAMMER USE AND CARE**

- Do not force the demolition hammer. Products are safer and do a better job when used in the manner for which they are designed. Plan your work, and use the correct product for the job.
- Check for damaged parts before each use. Carefully check that the product will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the product with a damaged part.
- Do not use a product with a malfunctioning switch. Any power tool that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before using.

- Disconnect the power/air supply from the product and place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store the hammer when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the tool for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your product. Accessories that may be suitable for one product may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure than the tool itself.
- Keep guards in place and in working order. Never operate the product without the guards in place.
- Do not leave the demolition hammer running unattended.

## Specific Operation Warnings

### ⚠️ WARNING

- To reduce the risk of injury always wear eye protection
- Wear ear protection when using the hammer. Exposure to noise can cause hearing loss.
- Wear heavy duty anti vibration gloves.
- Be sure the bit is secured in place before operation.
- Hold power tools by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring or its own cord.
- When drilling or screwing into walls, ceilings, etc., make sure beforehand that you will not damage any hidden electric cables. During this work you should not touch any metal parts of the machine; only touch the machine by the plastic housing.
- Always be sure you have a firm footing.
- Hold the hammer firmly with both hands.
- Be sure no one is below you when using the hammer in high locations.
- Do not point the hammer at anyone in the area when operating. The bit could fly out and seriously injure someone.
- Burn hazard. Do not touch the bit or parts close to the bit immediately after operation; they will be extremely

## Grounding

### ⚠️ WARNING

- This machine must be grounded while in use to protect the operator from electrical shock. This unit is equipped with an electrical cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching receptacle that is properly installed and grounded in accordance with ALL local codes and ordinances.

- DO NOT MODIFY THE PROVIDED PLUG. If it will not fit the receptacle, have the proper receptacle installed by a qualified electrician.
- CHECK with a qualified electrician or service person if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded.

### Grounded Tools: Tools with 3-Prong Plugs

Tools marked with **Grounding Required** have a 3-wire cord and 3-prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. (See Figure A.)

The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically live terminal.

Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration.

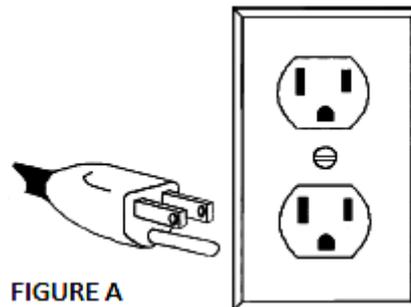


FIGURE A

### Double Insulated Tools: Tools with Two-Prong Plugs

Tools marked **Double Insulated** do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. (See Figure B.)

Double insulated tools may be used in either of the 120 volt outlets shown in the following illustration.

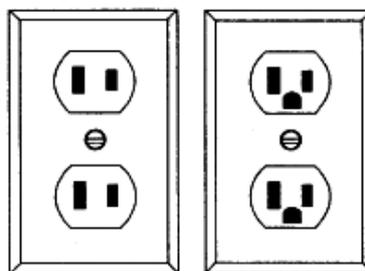


FIGURE B

## Extension Cords

### ⚠WARNING

- USE A PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage, resulting in loss of power and cause

overheating.

- Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas.
- Grounded tools require a 3-wire extension cord. Double Insulated tools can use either a 2- or 3-wire extension cord.
- 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.
- The smaller the wire's gauge number, the greater the capacity of the cord. For example, a 14-gauge cord can carry a higher current than a 16-gauge cord. Minimum extension cord wire size is shown in the following table:

Minimum Wire Size Of Extension Cords				
Nameplate AMPS	Cord Length			
	25'	50'	100'	150'
0-6	18 AWG	16 AWG	16 AWG	14 AWG
6-10	18 AWG	16 AWG	14 AWG	12 AWG
10-12	16 AWG	16 AWG	14 AWG	12 AWG
12-16	14 AWG	12 AWG	NOT RECOMMENDED	

- 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.
- 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.
- 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.
- Make sure your 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.
- Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

## Main Parts of Demolition Breaker Hammer





<b>Subassembly</b>
Main Handle
Switch
Chuck
Flat Chisel
Variable Speed Dial
Side Handle
Brush Indicator Light

## Assembly Instructions

### ⚠WARNING

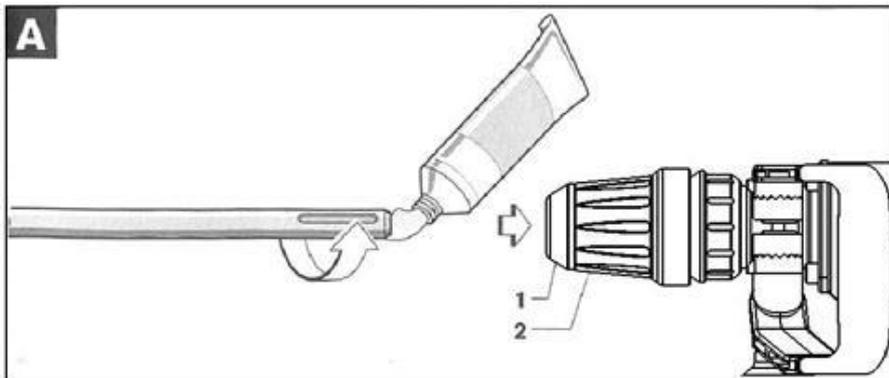
- Make sure that the trigger is in the OFF position and unplug the demolition hammer from its electrical outlet before performing any procedure in this section.

### ⚠CAUTION

- The inserted tool may become hot during use. There is a risk of burning your hands. Wear protective gloves when inserting or removing the tool from the holder.

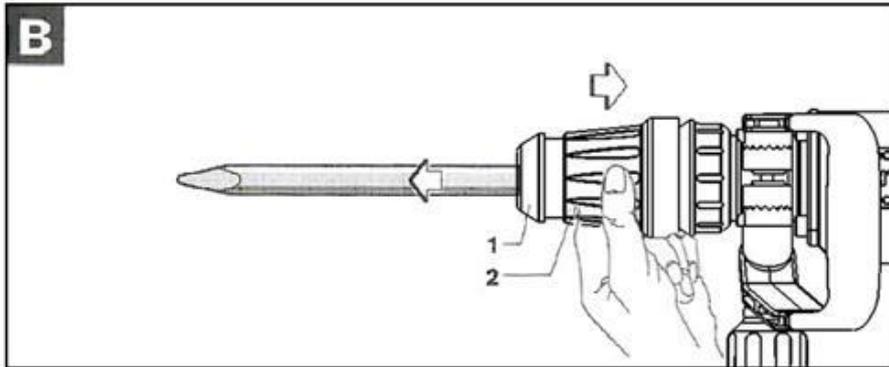
#### **Inserting the Hammer into the Holder (A)**

Clean and lightly grease the shank end of the demolition hammer. Insert the demolition hammer in a twisting manner into the tool holder until it latches itself. Check the latching by pulling the tool.



## Removing the Hammer from the Holder (B)

Push back the protective lining (2) and remove the hammer.



## Before Each Use

### ⚠WARNING

- Be sure the bit is secured in place before operation.
- When drilling or screwing into walls, ceilings, etc., make sure beforehand that you will not damage any hidden electric cables. During this work you should not touch any metal parts of the machine; only touch the machine by the plastic housing.
- Be sure no one is below you when using the tool in high locations.
- Always remove the plug from the power source before installing or removing a bit or accessory from the chuck.

## Operating Instructions

### ⚠WARNING

- To reduce the risk of injury, always wear eye protection.
- Wear ear protection when using the hammer. Exposure to noise can cause hearing loss.
- Wear heavy duty anti vibration gloves.
- Be sure the bit is secured in place before operation.
- Hold power tools by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring or its own cord.
- Always be sure you have a firm footing.
- Hold the tool firmly with both hands.
- Do not point the hammer at anyone in the area when operating. The bit could fly out and seriously injure someone.
- Burn hazard. Do not touch the bit or parts close to the bit immediately after operation; they will be extremely

- Use only well-sharpened bits that are in good condition and appropriate to task.
- To prevent the bit from jamming, keep the motor running when pulling the bit out of a completed hole.

### Starting the Hammer

To START the demolition hammer, press the 'I' on the switch.

To turn OFF the demolition hammer, press the 'O' on the switch.



For low temperatures, the demolition hammer reaches the full impact rate only after a certain time. This start-up time can be shortened by striking the chisel in the demolition hammer against the floor once.



### Setting the Impact Rate

Select the impact rate with the 'speed adjuster function' knob according to the material. The data in the following table are recommended values.

Speed Adjuster Function Knob 6	Impact frequency (min-1)
1	1000
2	1200
3	1350
4	1550
5	1750
6	1900

## After Each Use

### ⚠WARNING

- Do not remove the chisel until it has cooled.
- Store the hammer in a dry and clean place.
- Keep the hammer away from children.

## Maintenance

### ⚠WARNING

- Do not use solvents to clean the hammer.
- Carbon brushes are consumable parts. When they become worn they can cause problems with the motor. Use an auto-stop carbon brush which will stop automatically when the carbon brush is worn, then replace the brushes.
- If the power supply cord of this power tool is damaged, it must be replaced and only by a qualified service technician.

Maintain the demolition hammer by adopting a program of conscientious repair and maintenance in accordance with the following recommended procedures. It is recommended that the general condition of any tool be examined before it is used. Keep your tool in good repair. Keep handles dry, clean, and free from oil and grease. The following chart is based on a normal operation schedule.

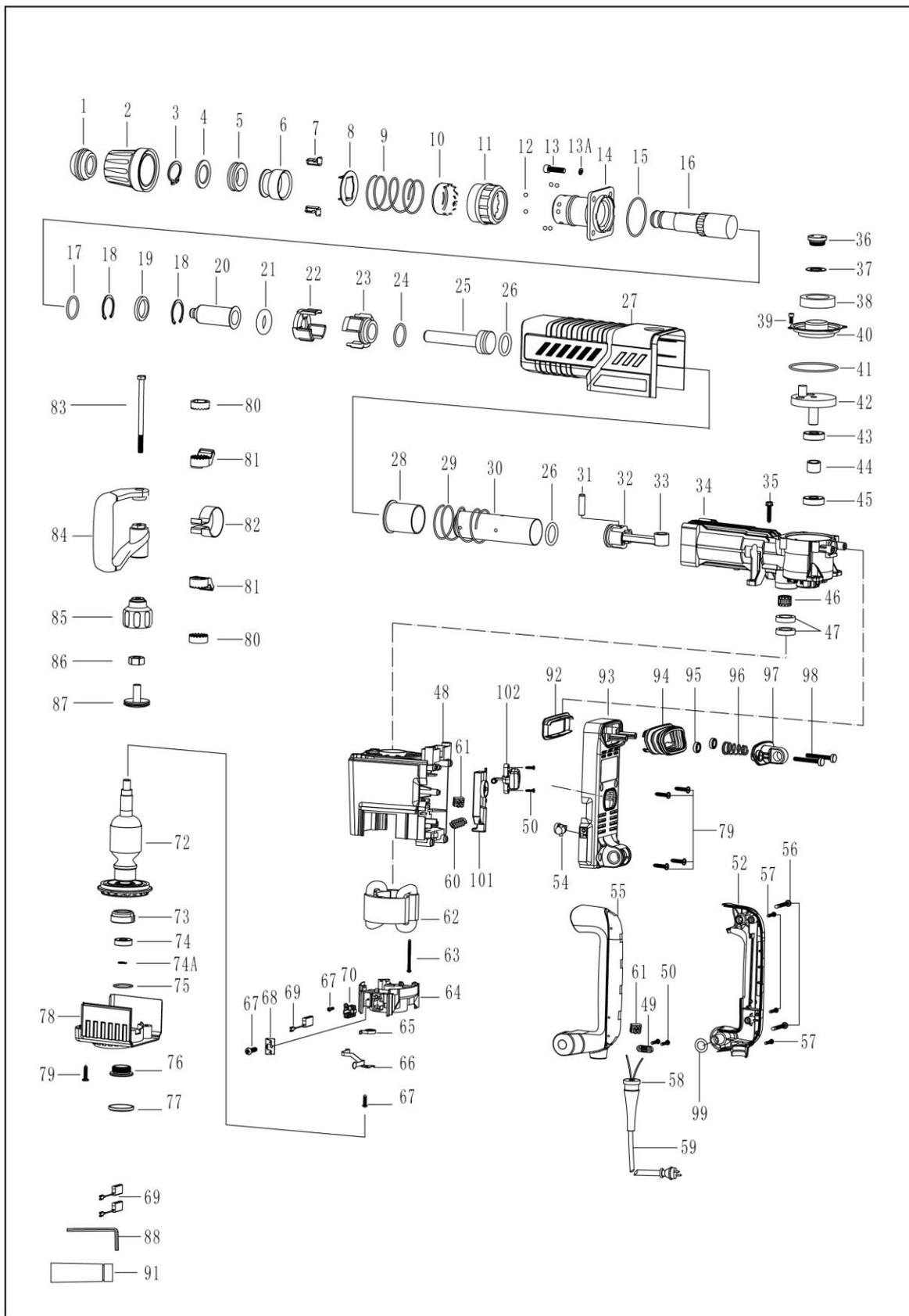
Maintenance Interval	Maintenance Point
Before each use	Inspect the general condition of the demolition hammer. Check for: <ol style="list-style-type: none"> <li>1. loose hardware,</li> <li>2. misalignment or binding of moving parts,</li> <li>3. damaged cord/electrical wiring,</li> <li>4. cracked or broken parts, and</li> <li>5. any other condition that may affect its safe operation.</li> </ol>
After use	Wipe the external surfaces of the demolition hammer with a clean cloth.

## Troubleshooting

Use the table below to troubleshoot problems before contacting service personnel or your local dealer. If the problem continues after troubleshooting, call your local dealer for assistance.

Failure	Possible Cause	Corrective Action
Hammer will not start.	<ol style="list-style-type: none"> <li>1. Cord is not connected.</li> <li>2. There is not any power at the outlet.</li> <li>3. The demolition hammer's thermal reset breaker tripped (if equipped).</li> <li>4. Internal damage or wear (carbon brushes or trigger, for example).</li> </ol>	<ol style="list-style-type: none"> <li>1. Check that the cord is plugged in.</li> <li>2. Check the power at the outlet. If the outlet is not powered, turn off the demolition hammer and check the circuit breaker. If the breaker is tripped, make sure the circuit is the right capacity for the demolition hammer and the circuit has no other loads.</li> <li>3. Turn off the demolition hammer and allow it to cool. Press the reset button on the tool.</li> <li>4. Have a technician service the demolition hammer.</li> </ol>
Hammer operates slowly.	<ol style="list-style-type: none"> <li>1. Forcing demolition hammer to work too fast.</li> <li>2. Extension cord is too long or cord diameter is too small.</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow the demolition hammer to work at its own rate.</li> <li>2. Do not use an extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.</li> </ol>
Hammer's performance decreases over time.	<ol style="list-style-type: none"> <li>1. Carbon brushes worn or damaged.</li> <li>2. Bit is dull or damaged.</li> </ol>	<ol style="list-style-type: none"> <li>1. Have a qualified technician replace brushes.</li> <li>2. Keep the bits sharp. Replace as needed.</li> </ol>
Excessive noise or rattling.	Internal damage or wear (carbon brushes or bearings, for example).	Have a technician service the demolition hammer.
Hammer overheats.	<ol style="list-style-type: none"> <li>1. Forcing demolition hammer to work too fast.</li> <li>2. Bit is dull or damaged.</li> <li>3. Blocked motor housing vents.</li> <li>4. Motor is being strained by long or small diameter extension cord.</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow the demolition hammer to work at its own rate.</li> <li>2. Keep the bits sharp. Replace as needed.</li> <li>3. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air.</li> <li>4. Do not use an extension cord. If an extension cord is needed, use one with the proper diameter for its length and load.</li> </ol>

# Parts Diagram



## Parts List

Part Number	Part Description	Quantity
1	Hammer Rod Protector	1
2	Protective Lining	1
3	Φ30 Retaining Ring	1
4	Support Patch	1
5	Shock Absorption Ring	1
6	Move Limited Ring	1
7	Insert Block	2
8	Change Plate	1
9	Support Ring Spring	1
10	Support Ring	1
11	Move Limited Ring	1
12	Φ6.5 Steel Ball	8
13	Hex. Socket Bolt M8×30	4
13A	Φ8 Spring Washer	4
14	Flange Cover	1
15	O-Ring φ63.5×Φ2.6	1
16	Hammer Rod Sleeve	1
17	O Ring Φ31.6×Φ2.5	1
18	Φ41 Retaining Ring	2
19	Oil Seal Ring Φ32×Φ42×7	1
20	Impact Pin	1
21	O Ring φ22×Φ11	1
22	Control Plate	1
23	Fixed Distance Sleeve	1
24	O-Ring φ35×Φ3	1
25	Impact Block	1
26	O Ring φ30.4×Φ5	2
27	Cover	1
28	Control Sleeve	1
29	Control Sleeve Spring	1
30	Cylinder	1
31	Piston Pin Φ10×38	1
32	Piston	1
33	Connecting Rod Assembly	1
34	Impact Body	1
35	Tapping Screw ST6.3x32	4
36	Oil Tank Cover	1
37	Rubber Washer Φ31 × φ25 × 1.2	1
38	Felt Ring	1
39	Hex Socket Bolt m5×12	4
40	Shell Cover	1
41	O-Ring φ79×Φ2.8	1
42	Eccentric Gear Subassembly	1
43	6002 DD Ball Bearing	1
44	Distance Ring	1
45	6002 RS Ball Bearing	1
46	Needle Bearing Nk20×28×13	1
47	Seal Ring Subassembly	2
48	Housing	1
49	Cord Clip	1
50	St4.2×18 Tapping Screw	4

Part Number	Part Description	Quantity
52	Main Handle Cover	1
54	Indicator Light	1
55	Main Handle	1
56	St5.5×45 Tapping Screw	2
57	ST4.2x22 Tapping Screw	3
58	Cord Armor	1
59	Cord	1
60	0.18μH Electricity Feels	1
61	Rivet	4
62	Stator 110-120V	1
63	Tapping Screw ST4.8×58	2
64	Carbon Brush Bracket	1
65	Helical Spring	2
66	Metal Contact Plate	1
67	Cross Recessed Pan Head Screw ST3.5x14	5
68	Metal Insert	2
69	Carbon Brush	2
70	Carbon Brush Wire	2
71	Screw Seal Ring	1
72	Armature 110-120V	1
73	Bearing Sleeve	1
74	6200 2Rs Ball Bearing	1
74A	Φ 10 Retaining Ring	1
75	O-Ring Φ 30 × Φ 2	1
76	Screw Ring	1
77	Protected Cover	1
78	Bearing Cover	1
79	Tapping Screw ST5.5x25	8
80	Disk With Gap	2
81	Clamping	2
82	Fixed Belt	1
83	Hexagon Head Bolt M8 × 130	1
84	Side Handle	1
85	Function Knob	1
86	Nut M8 (thickness 6.4mm)	1
87	Function Knob Cover	1
88	10mm Hex Bar Wrench	1
91	Oil Bottle φ 35 × 135	1
92	Fixed Platen	1
93	Main Handle Seat	1
94	Shock Absorption Jacket	1
95	Shock Absorption Ferrule	2
96	Shock Absorption Spring	1
97	Spring Rack	1
98	M6 × 50 (Φ 18)	2
99	O-Ring φ 16 × Φ 3	2
101	Speed Adjuster	1
102	Switch	1

## Replacement Parts

- For replacement parts and technical questions, please call Customer Service at **1-800-222-5381**.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following information will be required: item description, item model number, item serial number/item lot date code, and the replacement part reference number.
- The distributor reserves the rights to make design changes and improvements to product lines and manuals without notice.

## Limited Warranty

Northern Tool and Equipment Company, Inc. ("We" or "Us") warrants to the original purchaser only ("You" or "Your") that the Ironton product purchased will be free from material defects in both materials and workmanship, normal wear and tear excepted, for a period of **one year** from date of purchase. The foregoing warranty is valid only if the installation and use of the product is strictly in accordance with product instructions. There are no other warranties, express or implied, including the warranty of merchantability or fitness for a particular purpose. If the product does not comply with this limited warranty, Your sole and exclusive remedy is that We will, at our sole option and within a commercially reasonable time, either replace the product or product component without charge to You or refund the purchase price (less shipping). This limited warranty is not transferable.

### Limitations on the Warranty

This limited warranty does not cover: (a) normal wear and tear; (b) damage through abuse, neglect, misuse, or as a result of any accident or in any other manner; (c) damage from misapplication, overloading, or improper installation; (d) improper maintenance and repair; and (e) product alteration in any manner by anyone other than Us, with the sole exception of alterations made pursuant to product instructions and in a workmanlike manner.

### Obligations of Purchaser

You must retain Your product purchase receipt to verify date of purchase and that You are the original purchaser. To make a warranty claim, contact Us at 1-800-222-5381, identify the product by make and model number, and follow the claim instructions that will be provided. The product and the purchase receipt must be provided to Us in order to process Your warranty claim. Any returned product that is replaced or refunded by Us becomes our property. You will be responsible for return shipping costs or costs related to Your return visit to a retail store.

### Remedy Limits

Product replacement or a refund of the purchase price is Your sole remedy under this limited warranty or any other warranty related to the product. We shall not be liable for: service or labor charges or damage to Your property incurred in removing or replacing the product; any damages, including, without limitation, damages to tangible personal property or personal injury, related to Your improper use, installation, or maintenance of the product or product component; or any indirect, incidental or consequential damages of any kind for any reason.

### Assumption of Risk

You acknowledge and agree that any use of the product for any purpose other than the specified use(s) stated in the product instructions is at Your own risk.

### Governing Law

This limited warranty gives You specific legal rights, and You also may have other rights which vary from state to state. Some states do not allow limitations or exclusions on implied warranties or incidental or consequential damages, so the above limitations may not apply to You. This limited warranty is governed by the laws of the State of Minnesota, without regard to rules pertaining to conflicts of law. The state courts located in Dakota County, Minnesota shall have exclusive jurisdiction for any disputes relating to this warranty.



Distributed by:

Northern Tool & Equipment Company, Inc.

Burnsville, Minnesota 55306

[www.northerntool.com](http://www.northerntool.com)

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