

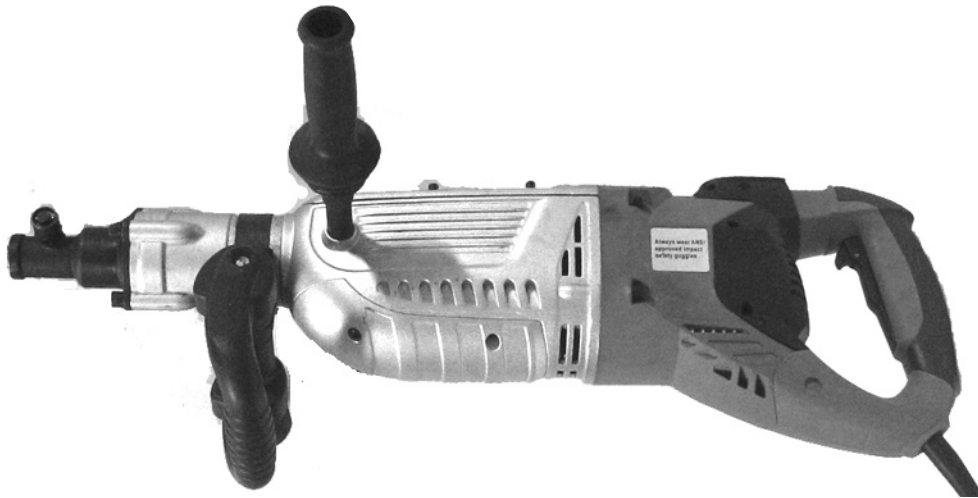
CHICAGO

Electric[®]Power Tools

ROTARY HAMMER

Model 94944

ASSEMBLY AND OPERATING INSTRUCTIONS



Distributed Exclusively by Harbor Freight Tools[®].

3491 Mission Oaks Blvd., Camarillo, CA 93011

Visit our Web site at <http://www.harborfreight.com>

**TO PREVENT SERIOUS INJURY,
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

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For technical questions please call 1-800-444-3353.

PRODUCT SPECIFICATIONS

ITEM	DESCRIPTION
Electrical Requirement	120 Volt / 60 Hz / 16 Amps (running)
Impactor Travel	1.65" (21mm)
Overall Dimensions	29" L X 6-3/8"W X 9-3/4" H (hammer only)
Blows per minute	750 - 1950
No load speed	100 - 250 RPM
Retainer Style	Spring loaded rotational lock (2 positions only)
Bit Dimensions:	Chisel Bit (part#119): 3/4" Shank X 14-7/8" L Masonry Drill (part# 118): 3/4" Dia. X 16-1/2" L
Noise Level	105 db (A)
Impact Energy	3.7 to 18.4 Ft/Lbs.
Tool Weight	32.2 Lbs.
Maximum Drill Bit Capacity	1.9" (concrete, brick, limestone)
Maximum Core Bit Capacity	5.9" (concrete, brick, limestone)

NOTE: Plug this tool into a 20 Amp dedicated circuit. Use GFCI Plug.

SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

GENERAL SAFETY RULES



WARNING!

READ AND UNDERSTAND ALL INSTRUCTIONS
Failure to follow all instructions listed below may result in
electric shock, fire, and/or serious injury.
SAVE THESE INSTRUCTIONS


WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and 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 bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control. Protect others in the work area from debris such as chips and sparks. Provide barriers or shields as needed.

ELECTRICAL SAFETY


4. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
5. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
6. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.

7.  **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.


8. **Do not abuse the Power Cord. Never use the Power Cord to carry the tools or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.
9. **When operating a power tool outside, use an outdoor extension cord marked “W-A” or “W”.** These extension cords are rated for outdoor use, and reduce the risk of electric shock.

PERSONAL SAFETY

10. **Stay alert. Watch what you are doing, and use common sense when operating a power tool. Do not use a power tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

11. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
12. **Avoid accidental starting. Be sure the Power Switch is off before plugging in.** Carrying power tools with your finger on the Power Switch, or plugging in power tools with the Power Switch on, invites accidents. Make sure you are prepared to begin work before turning the Power Switch (62) "ON".
13. **Remove adjusting keys or wrenches before turning the power tool on.** A wrench or a key that is left attached to a rotating part of the power tool may result in personal injury.
14. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the power tool in unexpected situations.
15.  **Always wear eye, hearing, and breathing protection.** Wear ANSI-approved safety impact eye glasses, ANSI-approved hearing protectors, and ANSI-approved dust mask or respirator when using this product. Also, non-skid safety shoes and a hard hat must be used for appropriate conditions.

TOOL USE AND CARE

16. **Do not use the power tool if the Power Switch does not turn it on or off.** Any tool that cannot be controlled with the Power Switch is dangerous and must be replaced or repaired.
17.  **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
18. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
19. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with a sharp cutting edge are less likely to bind and are easier to control. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
20. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
21. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.

SERVICE

22. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
23. **When servicing a tool, use only identical replacement parts. Follow instructions in the “*Inspection, Maintenance, And Cleaning*” section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

GROUNDING

WARNING!

Improperly connecting the grounding wire can result in the risk of electric shock. 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.

GROUNDED TOOLS: TOOLS WITH THREE PRONG PLUGS

1. Tools marked with “Grounding Required” have a three wire cord and three 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, next page.)**
2. 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. **(See Figure A.)**
3. 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. **(See Figure A page 6.)**

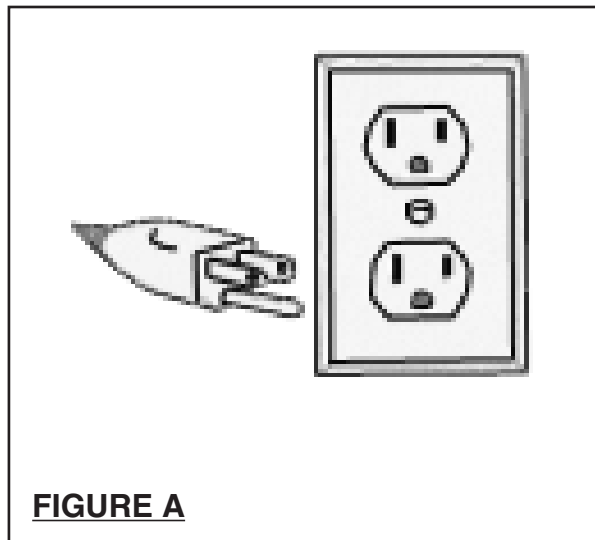


FIGURE A

DOUBLE INSULATED TOOLS: TOOLS WITH TWO PRONG PLUGS

4. 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.)**
5. Double insulated tools may be used in either of the 120 volt outlets shown in the following illustration. **(See Figure B.)**

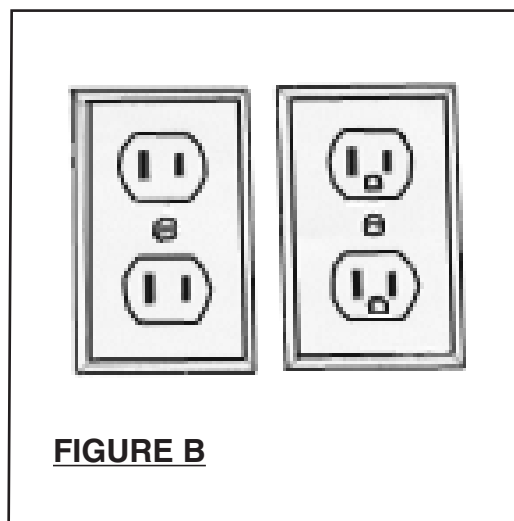


FIGURE B




EXTENSION CORDS

1. **Grounded** tools require a three wire extension cord. **Double Insulated** tools can use either a two or three wire extension cord.
2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Figure C)**
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 Figure C, and Figure D.)**
4. If using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required.
5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Figure C, and Figure D.)**
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 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.
8. Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS*					
NAMEPLATE AMPERES (At Full Load)	EXTENSION CORD LENGTH				
	25 Feet	50 Feet	75 Feet	100 Feet	150 Feet
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	-	-	-

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

SYMBOLOLOGY

	Double Insulated
	Canadian Standards Association
	Underwriters Laboratories, Inc.
V ~	Volts Alternating Current
A	Amperes
no xxx/min.	No Load Revolutions per Minute (RPM)

SPECIFIC SAFETY RULES

1. **Maintain labels and nameplates on the Rotary Hammer.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
2. **Industrial applications must follow OSHA requirements.**
3. **Check for damaged parts.** Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace or repair damaged or worn parts immediately.
4. **Always disconnect the Rotary Hammer from its electrical outlet before performing any service, maintenance, or cleaning** such as leaving the work area, moving the tool from one location to another, changing chisels, cleaning dirt off the unit, etcetera.
5. **WARNING!** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - (a) Lead from lead-based paints;
 - (b) Crystalline silica from bricks and cement or other masonry products;
 - (c) 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. **WARNING!** People with pacemakers should consult their physician(s) before using this product. Electromagnetic fields in close proximity to a heart pacemaker could cause interference to or failure of the pacemaker.

UNPACKING

When unpacking, check to make sure all parts shown on the **Parts Lists and Assembly Diagrams** on pages 15-17 are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

VIBRATION HAZARD

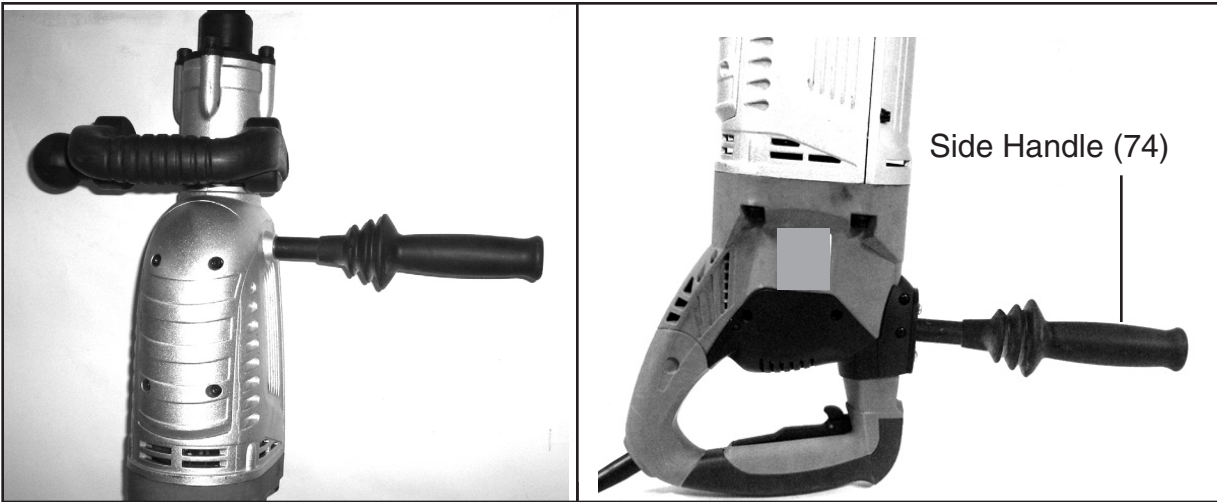
This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Wear suitable gloves to reduce the vibration effects on the user.
4. Use tools with the lowest vibration when there is a choice between different processes.
5. Include vibration-free periods each day of work.
6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.
7. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

ASSEMBLY INSTRUCTIONS

Note: Turn to pages 16-18 to assist you in identifying the parts mentioned in the assembly, operating instructions and troubleshooting sections of this manual.

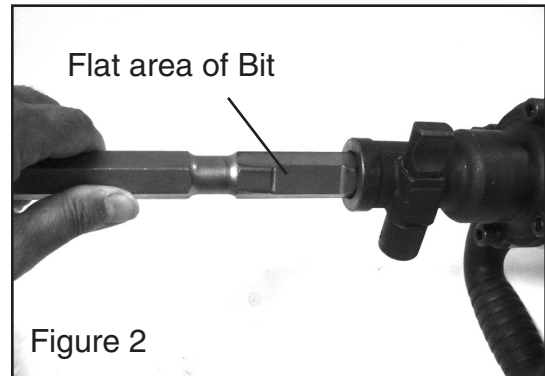
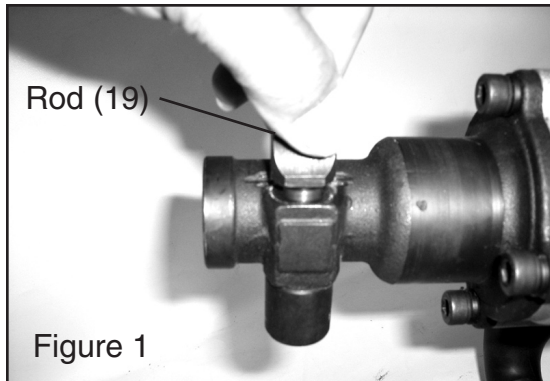
The Rotary Hammer comes fully assembled. There is a Side Handle (74) that must be attached as needed. There are two places on the Rotary Hammer that will accept the Side Handle (74) shown below. To attach the Side Handle (74), thread it into the housing by twisting it in a clockwise rotation until it stops turning.



How to attach the chisels

WARNING: Always make sure this tool is not plugged in before changing the bits.

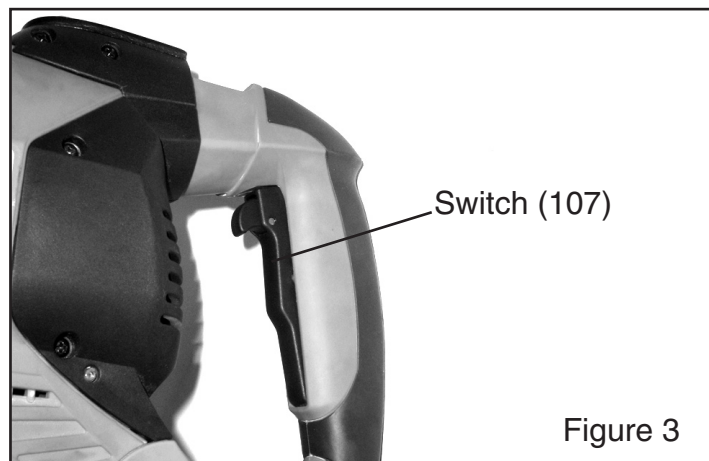
1. Slide the Bits into the Rotary Hammer with the flat cut-out side facing the Rod (19) as shown in Figure 2.
2. Pull out the Rod (19) while you insert the Bit. See Figure 1. The two bits both have a flat space on the shaft that must be turned horizontally when it is inserted. See Figure 2. Turn the Rod (19) clockwise 180° to lock the Bit into place. The Bit should move in and out after it is locked but should not come out.



OPERATING INSTRUCTIONS

How to turn on the Rotary Hammer

1. To turn on the Rotary Hammer squeeze the Switch (107) shown below in Figure 3. There is a latch on the upper part of the switch that locks the switch on.



OPERATING INSTRUCTIONS

WARNING: Always wear ANSI-approved impact safety goggles. Wear a full face shield if you are producing metal filings or wood chips. Wear an ANSI-approved dust mask or respirator when working around metal, wood, and chemical dusts and mists. Always wear ear protection. Ear protection is required for any other persons in the work area.

WARNING: Be aware of flying concrete chips. Keep all spectators clear of the work area.

WARNING: Do not operate this tool if you have back, neck, wrist, or other conditions or injuries that will be aggravated by the severe jerking forces that this tool exerts upon its operator.

WARNING: If the Rotary Hammer ever gets out of your control, immediately release the Switch (107).

NOTE: Use the weight of the Rotary Hammer to help you break up concrete. Use the tool in the vertical position whenever possible.

IMPORTANT - READ BEFORE USE

This Rotary Hammer may have decreased performance for a brief period at the beginning of each use. This warmup period lasts approximately 3-5 minutes. This happens because the grease inside the tool may be somewhat thick, preventing the tool from operating at full efficiency while the motor is cold. This is perfectly normal and does not indicate a problem. To help reduce this effect, we recommend storing this equipment in temperatures no lower than 50-60° F.

Chipping in a straight line

1. Use chalk or another suitable writing material and mark your work surface to delineate the area you intend to hammer.
2. Plug in the Rotary Hammer.
3. Grasp the handles firmly with both hands. When you are sure that no people or animals are in the vicinity, and it's safe to begin, depress the Switch (107).
4. The Rotary Hammer will begin to break the top layer of concrete. If you push down, it will begin to break the next layer as well.
5. Keep moving the Rotary Hammer along the line you want to section, breaking concrete as you go. If the Rotary Hammer jumps off of the line or section, release the Switch (107) and reposition the Rotary Hammer.
6. When you are finished, release the Switch (107) and unplug the Rotary Hammer.

Breaking up concrete

1. Place the bit on the center of a piece of concrete.
2. Grasp the handles firmly with both hands. When you are sure that no people or animals are in the vicinity, and it's safe to begin, depress the Switch (107).
3. As you break the concrete into big chunks, release the Switch (107) and move to other large pieces until all of the larger pieces are broken. Do not try to break up smaller pieces with this tool as it is too powerful and aggressive to control on small pieces.
4. When you are finished, release the Switch (107) and unplug the Rotary Hammer.

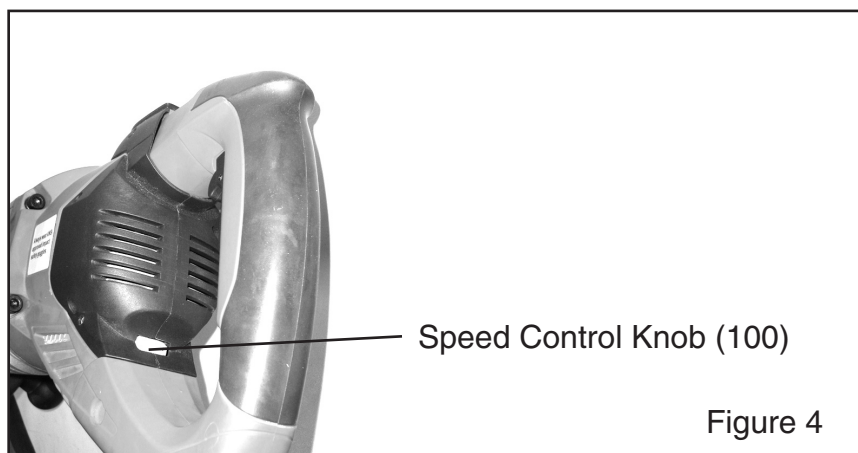
Using the Rotary Hammer as a hammer drill

NOTE: When you inset the Auger bit the Rotary Hammer will automatically convert into a rotary hammer. The Auger bit will rotate and hammer at the same time.


1. Place the bit on the center of a piece of concrete.
2. Grasp the handles firmly with both hands. When you are sure that no people or animals are in the vicinity, and it's safe to begin, depress the Switch (107).
3. As you drill into the concrete firmly press against the material being drilled into.
4. When you are finished, release the Switch (107) and unplug the Rotary Hammer.

How to adjust the Masonry Drill (118) speed

The Masonry Drill (118) speed is adjusted by turning the Speed Control Knob (100) See Figure 4. The higher the number the faster the Masonry Bit (118) will spin. The Rotary Hammer will automatically rotate and hammer once you attach the Masonry Bit (118).



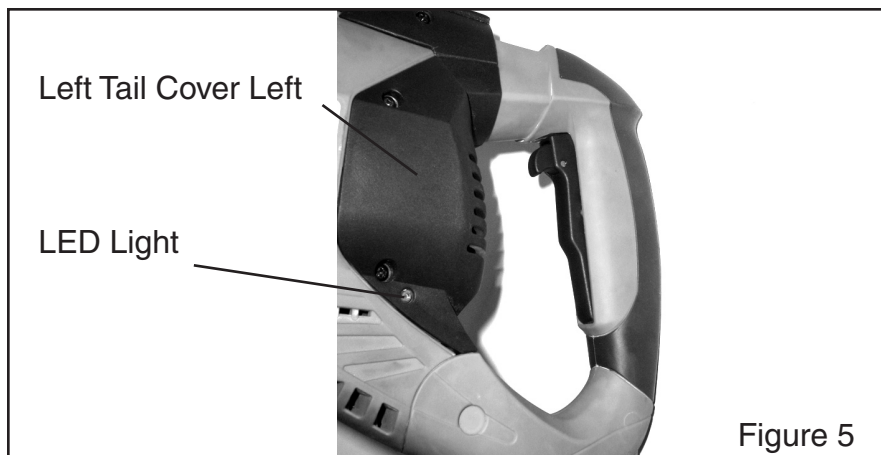
INSPECTION, MAINTENANCE, AND CLEANING

-  **WARNING!** Always disconnect the Rotary Hammer from its electrical power supply source before performing any inspection, maintenance, or cleaning procedure.
- Before each use, inspect the general condition of the Rotary Hammer. Inspect switch, power plug and cord assembly, and extension cord (if used) for damage. Check for loose screws, misalignment, binding of moving parts, broken, cracked, or improper mounting of the chisels. If abnormal noise or vibration occurs, turn off the Rotary Hammer immediately and have the problem corrected before further use. **Do not use damaged equipment!**

Replacing the Carbon Brushes (105) Replacing the Carbon Brushes (105)

NOTE: The Rotary Hammer Has a red LED located on the handle that will light up when the Carbon Brushes (105) are worn down and need to be replaced. See Figure 5 below.

To replace the Carbon Brushes (105) you must first remove the four screws that attach the Left Tail Cover (96) and the four screws that attach the Right Tail Cover (91). See Page 13. Next remove each Carbon Brush (105) by gently pulling on the wire that it is connected to. Disconnect the Carbon Brush connector and insert the new brushes by bushing them into the Brush House (104). After both Carbon Brushes (105) are inserted, attach the Carbon Brush connector, the Left Tail Cover (96) and the Right Tail Cover (91). See Figure 5 below.



How to add grease to the gears

Every 100 hours of use it is recommended that you add wheel bearing grease to the gears. To get access to the gears, you must remove Crank Case Cover (40) by removing the six machine screws (37). Next rub wheel bearing grease on all the gears in the chamber. Replace the Crank Case Cover (40) using the same machine screws (37) that held it on. See the assembly diagram on page 17 to identify the parts.

TROUBLESHOOTING

Problem	Cause	Action
Motor doesn't rotate when switched on.	Disrupted power Poor switch contact Worn carbon brushes	Check power supply Have switch repaired Replace brushes
Overheated gearbox	Dull Drill Bit Excessive use Gears need grease	Replace or sharpen the Drill Bit Allow tool to cool down Add grease to the gears

NOTE: Other than changing or cleaning the carbon brushes, all other internal repairs should be done by a qualified service technician.

PARTS LIST

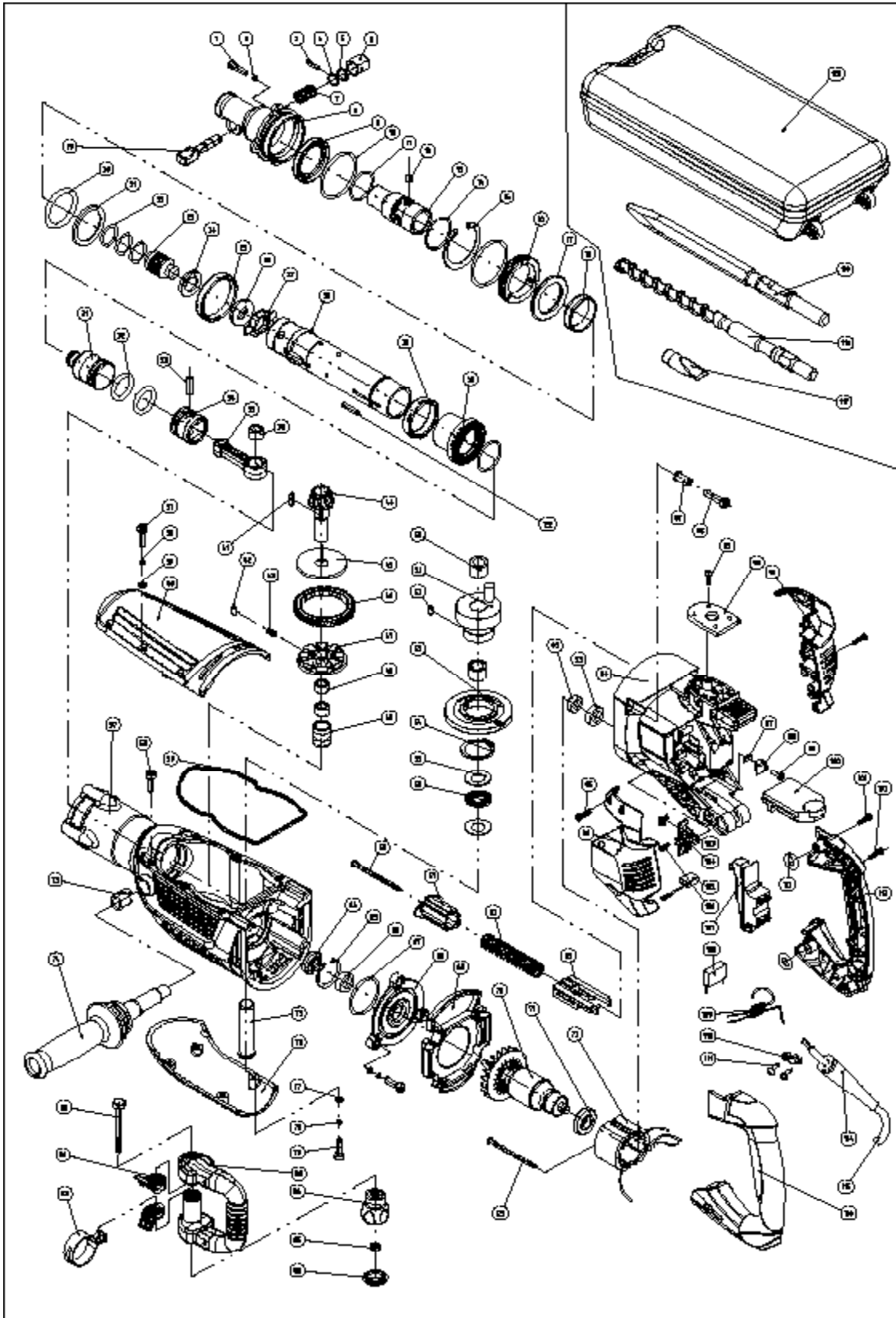
Part	Description	Qty	Part	Description	Qty
1	Screw M8X35	4	35	Connecting Rod	1
2	Spring Washer Ø8	4	36	Needle Bearing NK121918	1
3	Pin 4X17	1	37	Screw M5x25	4
4	Washer 18X12X1	2	38	Spring Washer 5	6
5	Spring Seat	1	39	Washer 5	6
6	Ring	1	40	Crank Case Cover	1
7	Spring	1	41	Feather Key	1
8	Collar	1	42	Clutch Plate	8
9	Oil Seal	1	43	Spring	8
10	O-ring	2	44	Fifth Gear	1
11	O-ring	2	45	Plastic sheet	1
12	Steel pole	4	46	fourth Gear	1
13	Retainer Sleeve	1	47	Slip Plate	1
14	Clip Ring	1	48	Needle Plate K14X18X13	2
15	Clip Ring 68	1	49	Roll turn outside the needle	1
16	Oil Bearing	1	50	Needle Bearing HK1816	2
17	Oil Bearing baffle	1	51	Third Crank Shaft	1
18	Orientation steel Ring	1	52	Pin B4X8	1
19	Rod	1	53	Second Four Gear	1
20	O-ring	1	54	Clip Ring 40	1
21	Washer	1	55	Washer 35X18X1	2
22	O-ring	3	56	Needle Plate	1
23	Ram	1	57	Crank Case	1
24	Ram baffle	1	58	Screw M5X35	2
25	Front oil Bearing	1	59	MI Ring	1
26	Dead block	1	60	Screw ST4X35	2
27	Profiled block	1	61	Damping Seat	1
28	Cylinder	1	62	Damping Spring	1
29	Black oil bearing	1	63	Damping closure rail	1
30	Six Gear	1	64	Washer	1
31	Ram	1	65	Clip Ring	1
32	O-ring 40x5	2	66	Ball Bearing 6002	1
33	Piston pin	1	67	O-ring	1
34	Piston	1	68	Gear Cover	1

PARTS LIST CONTINUED

Part	Description	Qty
69	Fan Guide	1
70	Rotor	1
71	Respond Washer	1
72	Stator	1
73	Special Nut	2
74	Side Handle	1
75	Adjust Stalk	1
76	Tail Cover	1
77	Washer 5	7
78	Spring Washer 5	7
79	Screw M5X16	7
80	Screw M8X170	1
81	Side Handle holder	2
82	Clamp	1
83	D Side Handle	1
84	Special Nut	1
85	Six Nut M8	1
86	Nut Cover	1
87	Adjust Set	1
88	Screw M8x40	4
89	Screw ST6X16-F	4
90	Nut Plank	1
91	Right Tail Cover	1
92	Ball Bearing 6000	1
93	Ball Bearing Set	1
94	Housing	1
95	Screw ST4X14	8
96	Left Tail Cover	1
97	Stretch forward	1
98	Stretch forward Clip	1
99	Screw ST4X10	1
100	Speed Control Knob	1
101	Screw ST4.8X30	1
102	Screw ST4X18	7

Part	Description	Qty
103	Spring	2
104	Brush Housing	2
105	Carbon Brush	2
106	Screw ST4X10	2
107	Switch	1
108	Capacitance 0.22UF	1
109	Inductance	1
110	Cord Clip	1
111	Screw ST4X16	2
112	O-ring 24X5	4
113	Right Handle	1
114	Cord Jacket	1
115	Cord	1
116	Lift Handle	1
117	Grease and Oil box	1
118	Masonry Drill	1
119	Chisel Bit	1
120	Case	1
121	Screw ST4.8X70	2
122	Feather Key	2

ASSEMBLY DIAGRAM



WARRANTY

 **CENTRAL HYDRAULICS**®

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 ninety 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, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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