Owner's Manual & Safety Instructions

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 (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.

22e



1632E-R

35 LB PRO DEMOLITION HAMMER KIT



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

64277

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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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.

Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.

Tools required for assembly and service may not be included.

▲WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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	WARNING SYMBOLS AND DEFINITIONS
A	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
▲ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
▲ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
ACAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Power Tool Safety Warnings

AWARNING

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

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

- 4. 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.
- 5. 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.
- 6. 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 Trigger is in the off-position before connecting to power source, picking up or carrying the tool.

 Carrying power tools with your finger on
 - Carrying power tools with your finger on the Trigger or energizing power tools that have the Trigger on invites accidents.

- 4. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- 5. 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.
- 6. 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.
- 7. 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

- 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 Trigger does not turn it on and off.

 Any power tool that cannot be controlled with the Trigger 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.

Percussion Hammer Safety Warnings

- 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 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.
- 4. Keep clear of moving parts.
- 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. Wear steel-toed boots during use.
- 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.
- Maintain labels and nameplates on the tool.
 These carry important safety information.
 If unreadable or missing, contact
 Harbor Freight Tools for a replacement.

- Avoid unintentional starting.
 Prepare to begin work before turning on the tool.
- 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.
- When using a handheld power tool, maintain a firm grip on the tool with both hands to resist starting torque.
- 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.
- 14. This product is not a toy. Keep it out of reach of children.
- 15. 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.
 - Properly ground power cord. Ground Fault Circuit Interrupter (GFCI) should also be implemented
 - it prevents sustained electrical shock.

16. 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:

- 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.
- 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.
- 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.



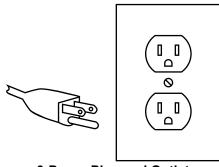
SAVE THESE INSTRUCTIONS.

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.

Grounded Tools: Tools with Three Prong Plugs

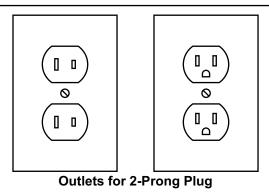


3-Prong Plug and Outlet

 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 3-Prong Plug and Outlet.)

- 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 3-Prong Plug and Outlet.)
- The 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 preceding illustration. (See 3-Prong Plug and Outlet.)

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.
- 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.
- 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.)
- 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.

- 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.
- 8. Protect the extension cords from sharp objects, excessive heat, and damp or wet areas.

TABLE A: REG				_	
NAMEPLATE AMPERES	E	XTEN L	ISION ENGT)
(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 voltage drop to five volts at 150% of the rated amperes.

Symbology

	Double Insulated		WARNING of Eye Injur safety gogg
V	Volts	(3)	Read the m
~	Alternating Current		WARNING concerning Do not cove Keep flamn
A	Amperes	A	WARNING Risk of Electory Properly conto appropria
n ₀ xxxx/min.	No Load Revolutions per Minute (RPM)		WARNING Risk of Hea hearing pro

	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Fire. Do not cover ventilation ducts. Keep flammable objects away.
<u>A</u>	WARNING marking concerning Risk of Electric Shock. Properly connect power cord to appropriate outlet.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.

Specifications

Electrical Input	120 VAC / 60 Hz / 15 A
No Load Blows Per Minute	1300 BPM
1-1/8" x 15-3/4" (28mm x 400mm) Chisels	1 Bull Point (included) 1 Flat Point (included)
Other Accessories	Chisel Grease Carbon Brush Set

Setup - Before 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.

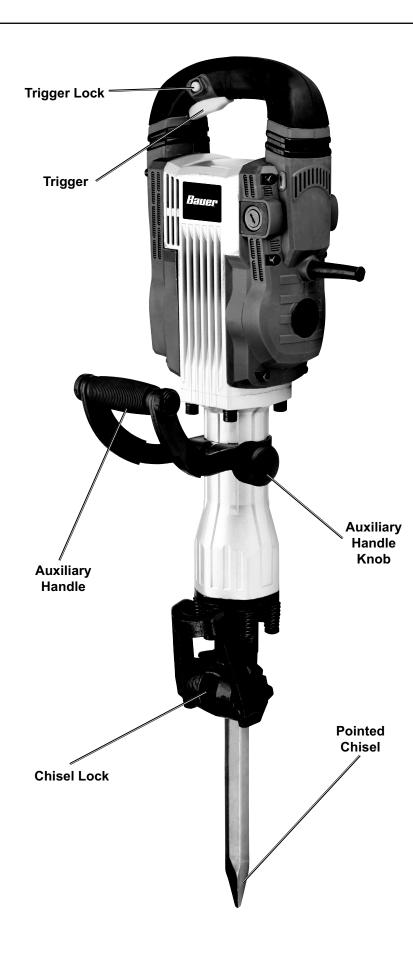
<u>Note:</u> For additional information regarding the parts listed in the following pages, refer to *Parts List and Diagram* on page 14.

Assembly

The only assembly required for the Demolition Hammer is the positioning of the Auxiliary Handle around the Cylinder Case.

- 2. Tighten Auxiliary Handle Knob to fasten Auxiliary Handle in place.
- 1. Twist Auxiliary Handle into desired position.





Operating Instructions



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.

Tool Set Up

AWARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Make sure that the Trigger is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

Chisels come with or without collars.

Figure A shows installation of a chisel without a collar (the included chisel is without a collar).

Figure D shows installation of a chisel with a collar.

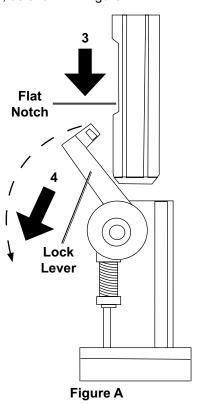
<u>CAUTION!</u> Chisel may be HOT after use. Avoid contact with skin and use protective gloves to remove.

Mounting Chisels without a Collar

1. IMPORTANT! Wipe clean, then grease chisel's shank using included Chisel Grease.

Note: Keep chisel shank clean. Do not lay in dirt or dust.

Pull the Lock Lever to the side, just far enough to allow the Chisel to be inserted, as shown in Figure A.



<u>Note:</u> Flat Notch on Collar-less Chisel must face the Lock Lever.

3. Insert Chisel with the Flat Notch facing the Lock Lever as far as it will go, as shown in Figure B.



Figure B

4. Pull the Lock Lever back until it locks the Chisel into place. See Figure C.

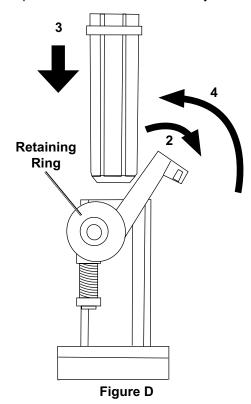
Note: Lock Lever will not lie flat against the chuck.



Figure C

 When the Chisel is installed, there will be play along the Flat Notch of the shank. Physically check that the Chisel is secure before operating. IMPORTANT! Wipe clean, then grease chisel's shank using included Chisel Grease.

Note: Keep chisel shank clean. Do not lay in dirt or dust.



2. Pull the Lock Lever open about 70-80° to the second engaging position, as shown in Figure E.



Figure E

- Insert the collared Chisel.
- 4. Slide the Chisel in as far as it will go.
- Return the Lock Lever to its original position to lock the Chisel in place. See Figure F.



Figure F

6. Physically check that the Chisel is secure before operating. The Chisel will have play, but should not come out when pulled.

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.
- 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.
- There must not be objects, such as utility lines, nearby that will present a hazard while working.

General Operating Instructions

- Make sure that the Trigger is in the off-position, then plug in the tool.
- Once the chisel is installed and the Auxiliary Handle set in the desired position, set the tip of the bit against the work area.
- Place one hand on the Auxiliary Handle and the other hand around the Main Handle.
- 4. Press the Trigger to activate the Demolition Hammer.
- 5. WARNING! TO PREVENT SERIOUS INJURY:
 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, the tool should run for about two minutes before achieving full performance.

Make sure the Trigger properly actuates when pressed and that the tool turns off when its released.

<u>NOTICE:</u> Avoid operating the tool without pressing the bit against an object. Doing so will damage the tool.

- 6. When work is complete, release the Trigger.
- 7. 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.

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

AWARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the Trigger is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

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 and Maintenance

- BEFORE EACH USE, inspect the general condition of the tool. Check for:
 - loose hardware.
 - · misalignment or binding of moving parts,
 - · damaged cord/electrical wiring,
 - · dull or cracked Chisel,
 - · cracked or broken parts, and
 - any other condition that may affect its safe operation.
- 2. **AFTER USE**, wipe external surfaces of the tool with clean cloth.

 This Tool comes properly lubricated.
 Internal lubrication is only needed when replacing the Carbon Brushes, see below.

<u>NOTE:</u> The Demolition Hammer has airtight construction, allowing three months of continuous usage before lubrication is needed.

- Store in temperatures no lower than 50-60° F.
- 5. AWARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.

Replacing Carbon Brushes and Lubrication

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

- Use screwdriver to remove the Carbon Brush Cover.
- Replace the Carbon Brush in the Carbon Brush Holder.
- Replace Brush Cap, Rubber Cap, and Carbon Brush Cover.
- Remove the Grease Cover (57) using Grease Cover Wrench (106) and lubricate the gearbox using White Lithium Grease or Molybdenum Grease whenever replacing the Carbon Brushes.

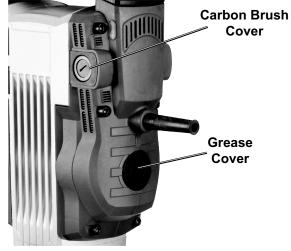


Figure G

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will	1. Cord not connected.	Check that cord is plugged in.
not start.	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 has 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.
	4. Internal damage or wear. (Carbon brushes or Trigger, for example.)	4. Have technician service tool.
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use shorter/heavier gauge cord. See Extension Cords in GROUNDING section.
Performance	Chisel dull or damaged.	Keep cutting chisels sharp. Replace as needed.
decreases over time.	2. Internal lubrication cold.	Allow tool to operate with no load for 2 minutes before use.
	Carbon brushes worn or damaged.	3. Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	1. Forcing tool to work too fast.	Allow tool to work at its own rate.
	2. Chisel dull or damaged.	Keep cutting chisels sharp. Replace as needed.
	3. Blocked motor housing vents.	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.	4. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See Extension Cords in GROUNDING section.



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

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.

Record Product's Serial Number Here:

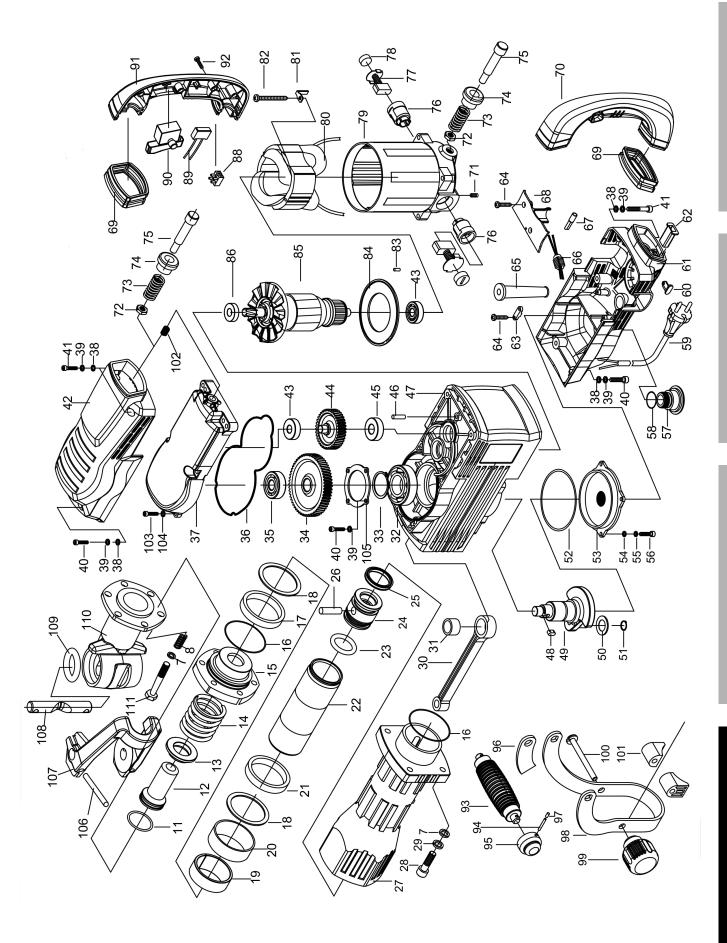
Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 792363642774 when ordering parts.

Parts List and Diagram

Part	Description	Qty
7	Flat Washer 10	10
8	Spring	6
11	O-Ring Ø40 x Ø3.5	1
12	Second Striker	1
13	Spring Seat	1
14	Spring	1
15	Fix Coat	1
16	O-Ring 69 x 2	2
17	Rubber Ring	1
18	Washer	2
19	Reducing Ring	1
20	Rubber Bush	1
21	Cylinder Coat	1
22	Ram	1
23	O-Ring Ø46 x Ø5.3	1
24	Piston	1
25	Seal	1
26	Piston Pin	1
27	Cylinder Case	1
28	Bolt M10 x 45	4
29	Spring Washer Ø10	4
30	Connecting Rod	1
31	Needle Bearing NK1716	1
32	Bearing 6206	1
33	Circlip 30	1
34	Big Gear	1
35	Bearing 6302	1
36	Seal Washer	1
37	Gear Box	1
38	Small Washer Ø6	14
39	Spring Washer Ø6	14
40	Bolt M6 x 25	10
41	Bolt M6 x 45	6
42	Upper Shell	1
43	Bearing 6201	1
44	Middle Gear	1
45	Bearing 6001	1
46	Pin B6 x 12	2
47	Crank Shaft Case	1
48	Flat Pin 6 x 12	1
49	Crank Shaft	1
50	Washer	1
51	Circlip 17	1
52	O-Ring Ø95 x Ø2.5	1
53	Grease Window Seat	1
54	Small Washer Ø5	4
55	Spring Washer Ø5	4
56	Bolt M5 x 20	4
57	Grease Window Cover	1
58	O-Ring Ø27 x Ø2	1
59	Cord	1

Part Description Qty 60 Neon Cover 1 61 Lower Shell 1 62 Pull Box 1 63 Cord Press Plate 1 64 Self-tapping Screw ST4 x 16 5 65 Cord Sheath 1 66 Wiring Terminal 1 67 Neon 1 68 Sheath Press Plate 1 69 Anti-vibration Coat 2 70 Left Handle 1 71 Screw M5 x 10 2 72 Nut M12 2 73 Anti-vibration Spring 2 74 Anti-vibration Spring 2 75 Anti-vibration Washer 2 75 Anti-vibration Bolt 2 76 Brush Holder 2 77 Carbon Brushes 2 78 Brush Cover 2 79 Motor Housing 1 80 Stator
62 Pull Box 1 63 Cord Press Plate 1 64 Self-tapping Screw ST4 x 16 5 65 Cord Sheath 1 66 Wiring Terminal 1 67 Neon 1 68 Sheath Press Plate 1 69 Anti-vibration Coat 2 70 Left Handle 1 71 Screw M5 x 10 2 72 Nut M12 2 72 Nut M12 2 73 Anti-vibration Spring 2 74 Anti-vibration Spring 2 75 Anti-vibration Washer 2 75 Anti-vibration Bolt 2 76 Brush Holder 2 77 Carbon Brushes 2 78 Brush Cover 2 79 Motor Housing 1 80 Stator 1 81 Stator Press Plate 2 82 Self-tapping Screw
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64 Self-tapping Screw ST4 x 16 5 65 Cord Sheath 1 66 Wiring Terminal 1 67 Neon 1 68 Sheath Press Plate 1 69 Anti-vibration Coat 2 70 Left Handle 1 71 Screw M5 x 10 2 72 Nut M12 2 73 Anti-vibration Spring 2 74 Anti-vibration Washer 2 75 Anti-vibration Bolt 2 76 Brush Holder 2 77 Carbon Brushes 2 78 Brush Cover 2 79 Motor Housing 1 80 Stator 1 81 Stator Press Plate 2 82 Self-tapping Screw ST4.8 x 60 2 83 Rubber Pillar 1 84 Air Guider 1 85 Rotor 1 86 Bearing 6202 </td
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68 Sheath Press Plate 1 69 Anti-vibration Coat 2 70 Left Handle 1 71 Screw M5 x 10 2 72 Nut M12 2 73 Anti-vibration Spring 2 74 Anti-vibration Washer 2 75 Anti-vibration Bolt 2 76 Brush Holder 2 77 Carbon Brushes 2 78 Brush Cover 2 79 Motor Housing 1 80 Stator 1 81 Stator Press Plate 2 82 Self-tapping Screw ST4.8 x 60 2 83 Rubber Pillar 1 84 Air Guider 1 85 Rotor 1 86 Bearing 6202 1 88 Inductor 1 90 Switch 1 91 Right Handle 1 92 Self-tapping Screw ST4 x 20
69 Anti-vibration Coat 2 70 Left Handle 1 71 Screw M5 x 10 2 72 Nut M12 2 73 Anti-vibration Spring 2 74 Anti-vibration Washer 2 75 Anti-vibration Bolt 2 76 Brush Holder 2 76 Brush Holder 2 77 Carbon Brushes 2 78 Brush Cover 2 79 Motor Housing 1 80 Stator 1 81 Stator Press Plate 2 82 Self-tapping Screw ST4.8 x 60 2 83 Rubber Pillar 1 84 Air Guider 1 85 Rotor 1 85 Rotor 1 86 Bearing 6202 1 88 Inductor 1 90 Switch 1 91 Right Handle 1
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82 Self-tapping Screw ST4.8 x 60 2 83 Rubber Pillar 1 84 Air Guider 1 85 Rotor 1 86 Bearing 6202 1 88 Inductor 1 90 Switch 1 91 Right Handle 1 92 Self-tapping Screw ST4 x 20 4 93 Auxiliary Handle 1 94 Pin B3 x 22 2 95 Rubber Coat 2 96 Rubber Cover 2 97 Antiskid Pin 2 98 Grip Holder 1 99 Knob 1
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85 Rotor 1 86 Bearing 6202 1 88 Inductor 1 89 Capacitor 1 90 Switch 1 91 Right Handle 1 92 Self-tapping Screw ST4 x 20 4 93 Auxiliary Handle 1 94 Pin B3 x 22 2 95 Rubber Coat 2 96 Rubber Cover 2 97 Antiskid Pin 2 98 Grip Holder 1 99 Knob 1
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97 Antiskid Pin 2 98 Grip Holder 1 99 Knob 1
98 Grip Holder 1 99 Knob 1
99 Knob 1
122
100 Grip Bolt 1
101 Grip Piece 2
102 Barrel ZST12 x 1.75 - 12K 1
103 Bolt M8 x 30 6
104 Spring Washer Ø8 6
105 Bearing Clamp 1
106 Pin 8 x 55 2
107 Tool Holder 1
108 Stop Pin 1
109 Rubber Ring 18.5 x 18 2
110 Tool Holder Socket 1
111 Bolt M10 x 65 6



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