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# User Manual

## DEMOLITION BREAKER

## DL-DG15-E1

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice

| | |
|---|---|
| Model | DL-DG15-E1 |
| Power input | 1900W |
| Voltage | 220~ 240V |
| Frequency | 50/60Hz |
| Impact rate | 2000 BPM |
| Impact energy per stroke | 55J |
| Machine weight | 15.5Kg |

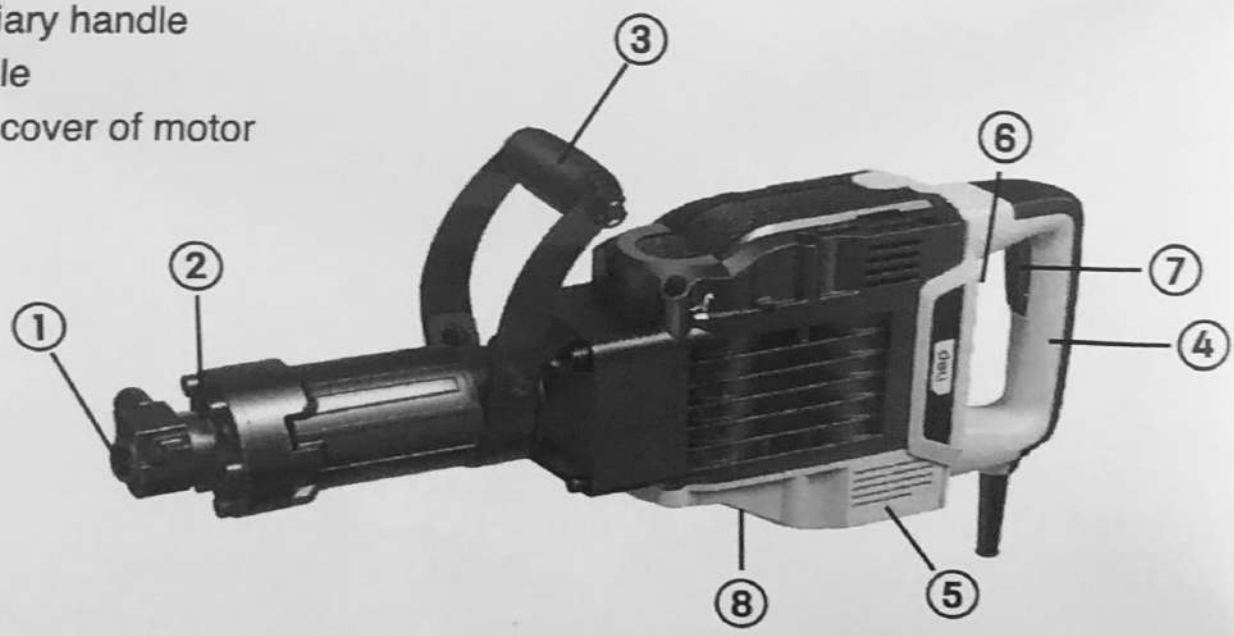
## TECHNICAL DATA

**NOTE!**

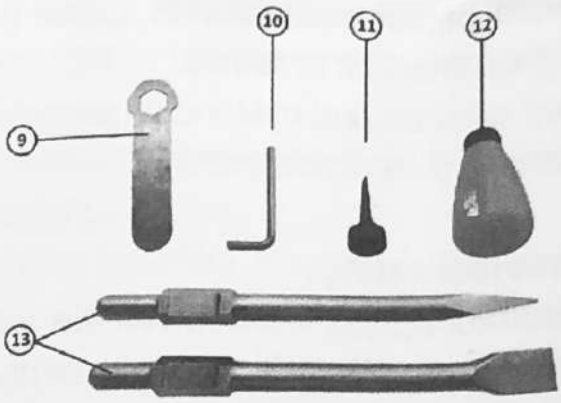
For power tool specifications refer to the nameplate on your power tool.

## COMPONENT LIST

1) Bit holder
2) Bit retainer
3) Auxiliary handle
4) Handle
5) Rear cover of motor



6) Switch lock button
7) On/Off switch
8) Oil gauge
9) Hex wrench for oil gauge:
10) Hex key
11) Oil nozzle
12) Oil can
13) Chisel bits




## NORMAL ACCESSORIES

1) Auxiliary handle: 1pc
2) Hex wrench for oil gauge: 1pc
3) Allen key: 1pc
4) Oil can: 1pc
5) Oil nozzle: 1pc
6) Chisel bits: 2pcs
7) Spare carbon brush: 1set

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.

## GENERAL POWER TOOL SAFETY WARNINGS

**WARNING!**

Read all safety warnings and all 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 or battery-operated (cordless) power tool.

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**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 earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
d) 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.
e) 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.
f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD 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. Protective equipment such as dust mask, non-skid 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 off-position 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 energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

**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) Us e 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.

## ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR POWER TOOL

1) Wear ear protectors. Exposure to noise can cause hearing loss.
2) Wear safety goggles or eye protection when using this power tool.
3) Use a dust mask or respirator for applications which generate dust.
4) Safety boots are recommended at all times. Proper safety gloves are also recommended.
5) Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.
6) Hold power tool by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring or its own cord. Cutting tool contacting a 'live' wire will make exposed metal parts of the tool 'live' and could give the operator an electric shock.
7) Always check grounds and walls to avoid hidden power cables and pipes. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage.
8) Always be sure you have a firm footing. Be sure no one is below when using the power tool in high locations.
9) Before the start of work, confirm the oil supply and screw tightening.
10) Be sure the bit is secured in place before operation.
11) Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.
12) Do not touch the chisel bit or parts close to the chisel bit immediately after operation. They may be extremely hot and could burn your skin.

## DOUBLE INSULATION

The power tool is double insulated. This means that all the external metal parts are electrically insulated from the main power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the power tool to be earthed.

## EXTENSION CORD

If an extension cord is required, use only an approved extension cord suitable for the power input of this tool (see technical data). An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. When using a cord reel, always unwind the cord completely.

## IMPORTANT NOTE

Be sure the supply is the same as the voltage given on the rating plate. The power tool is fitted with a two-core cable and plug.
Remove the main plug from socket before carrying out any adjustment or servicing.

## SYMBOLS

Some of the following symbols may be used on your power tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

 **To reduce the risk of injury, user must read instruction manual**

 **Double insulation**

 **WARNING!**

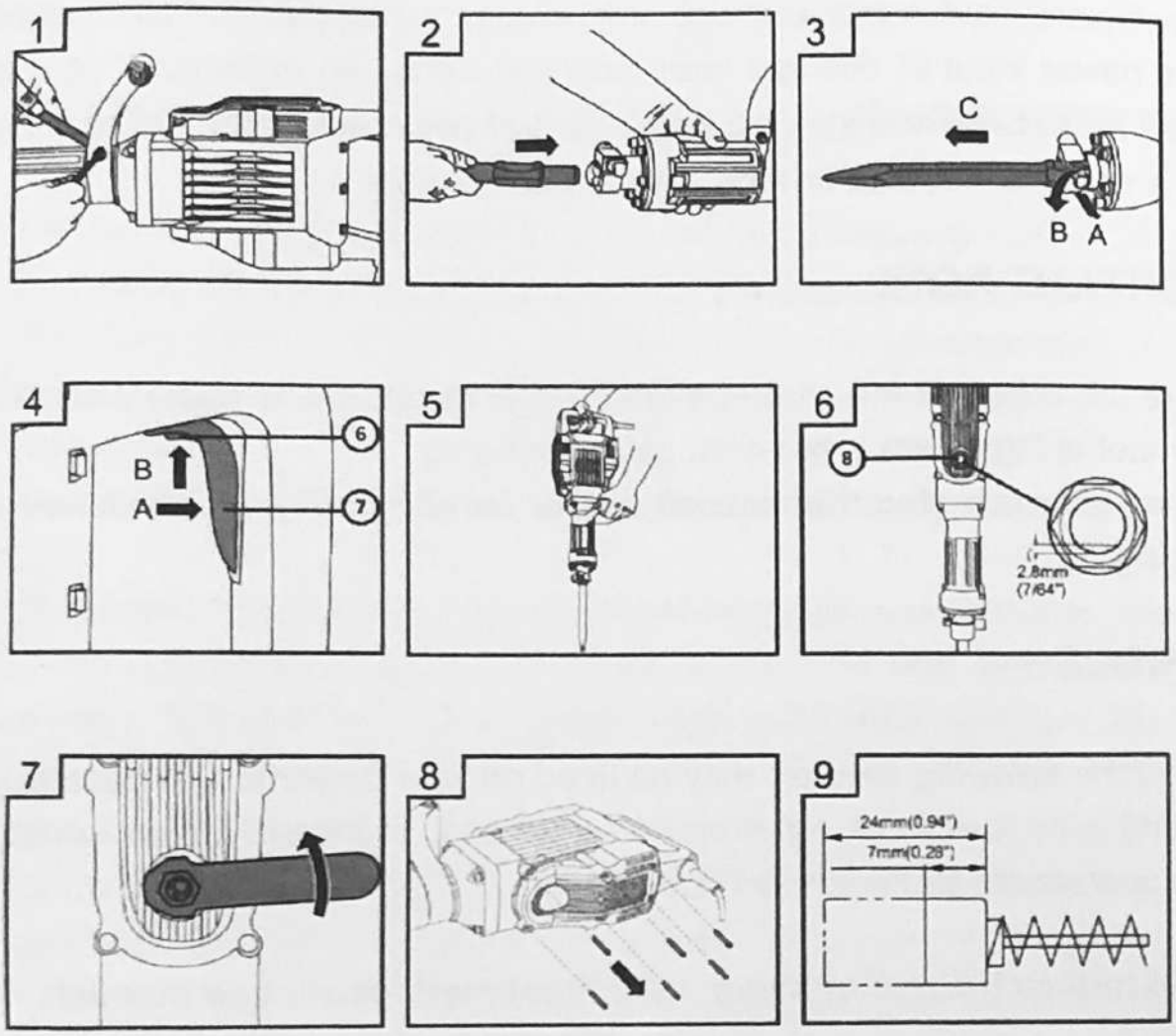
 **Wear ear protection**

 **Wear eye protection**

 **Wear dust mask**

 **Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice**

# OPERATING INSTRUCTIONS




**NOTE!**

*Before using the power tool, read the instruction manual carefully.*

**1) Intended use**

The machine is intended for breaking concrete, chipping off concrete, grooving, bar cutting, and driving piles in installation of piping and wiring, sanitary facility installation, machinery installation, water supply and drainage work, interior jobs, harbor facilities and other civil engineering work, etc.

**2) Before using your tool**

1) Be sure the supply is the same as the voltage given on the rating plate. The tool is fitted with a two-core cable and plug.

2) At the start of work, confirm the oil supply and screw tightening.

3) Ensure that the power switch is in the OFF position. If the plug is connected

to a power receptacle while the power switch is in the ON position, this power tool will start operating immediately, inviting serious accident.

**3) Auxiliary handle**

The auxiliary handle can be either freely swiveled or secured at one position for use during power tool operation. Just loosen the bolt to swivel the handle freely. To secure the handle at a fixed position, first loosen the bolt and swing the handle to the desired position for use. Then tighten the bolt firmly. Always use the auxiliary handle.

**4) Installing or removing the tool**

1) The power tool is equipped with a hexagonal attachment system. Clean and smear the tool shank with grease before installing the tool.
2) Turn the notch of the tool shank upward and insert it fully into the hexagonal holder of the power tool.
3) Grip and pull back the tool retainer in the direction of the arrow A and rotate it 180° and release it to secure the tool. Pull on the tool to check if is properly locked.
4) To remove the tool, follow the installation procedure in reverse.

**5) ON/OFF switch**

1) To start the power tool, simply depress the switch trigger. Release the switch trigger to stop your power tool.
2) For continuous operation, depress the on/off switch then lock-on button, release the on/off switch first and lock-on button second. Your switch is now locked on for continuous use. To switch off your power tool, just depress and release the on/off switch.

**6) Operation**

Hold the power tool firmly with both hands. Turn the power tool on and apply slight pressure on the power tool so that the power tool will not bounce around, uncontrolled. Pressing very hard on the tool will not increase the efficiency.

**NOTE!**

Sometimes the power tool does not begin the striking stroke even when the motor rotates because oil has become thick. If the power tool is used at low

temperatures or if it is used after a long idle time, this power tool should be kept running for about five minutes in order to warm it up.

**7) Lubrication**

This power tool requires no hourly or daily lubrication because it has an oil tank lubrication system. Feed oil when the oil level drops to less than approx 2.8 mm (7/64") when this power tool is held upright. Feed oil into the oil tank as described below:

1) Run the tool for several minutes to warm it up. Switch off and unplug the tool.
2) Remove the oil gauge with the provided wrench. Be careful not to lose the rubber packing attached under the oil gauge. Then feed oil with the provided lubrication oil.
3) After feeding oil, securely clamp the oil gauge.
4) Check the oil level once a day, confirming that oil is enough.

**NOTE!**

As an optional accessory, oil for the power tool is sold separately. Mobil delvac super 1300
15W-40 engine oil can be used.

## WORKING HINTS FOR YOUR POWER TOOL

1) Always use sharp good quality chisels. The performance of the power tool is dependent on the quality of the chisels used.
2) Do not apply excessive pressure to the power tool when chiseling. Expressive force does not speed up the work.
3) In cold weather or when the tool has not been used for a long time, let the power tool warm up for a while by operating it under no load. This will loosen up the lubrication.

## MAINTENANCE AND INSPECTION

**WARNING!**

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

1) Never use water or chemical cleaners to clean your power tool. Wipe clean

with a dry cloth.
2) Always store your power tool in a dry place.
3) Keep the motor ventilation slots clean.
4) Regularly inspect all mounting screws and ensure that they are properly tightened. Should any of the screws be loose, retighten them immediately. Failure to do so could result in serious hazard.
5) If you see some sparks flashing in the ventilation slots, this is normal and will not damage your power tool.
6) The motor employs carbon brushes which are consumable parts. Since an excessively worn carbon brush results in motor trouble. To inspecting or replacing the carbon brushes, use a screwdriver to remove the cover (see Fig 8). Take out the carbon brushes. If it becomes worn to or near "wear limit" (See Fig 9) replacing the new ones, reinstall the cover firmly.

**NOTE!**

Both carbon brushes should be replaced at the same time. Use only identical carbon brushes. Keep the carbon brushes clean and free to slip in the holders.
7) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

## TROUBLESHOOTING

1) If your power tool will not operate, check the power at the mains plug, or check the carbon brushes.
2) If the power tool doesn't work properly, check the chisels for sharpness, replace chisels if worn.
3) If the impact energy of your power tool is week, check the oil level, feel oil your power tool if need.
4) If a fault can't be rectified, return the power tool to an authorized dealer for repair.

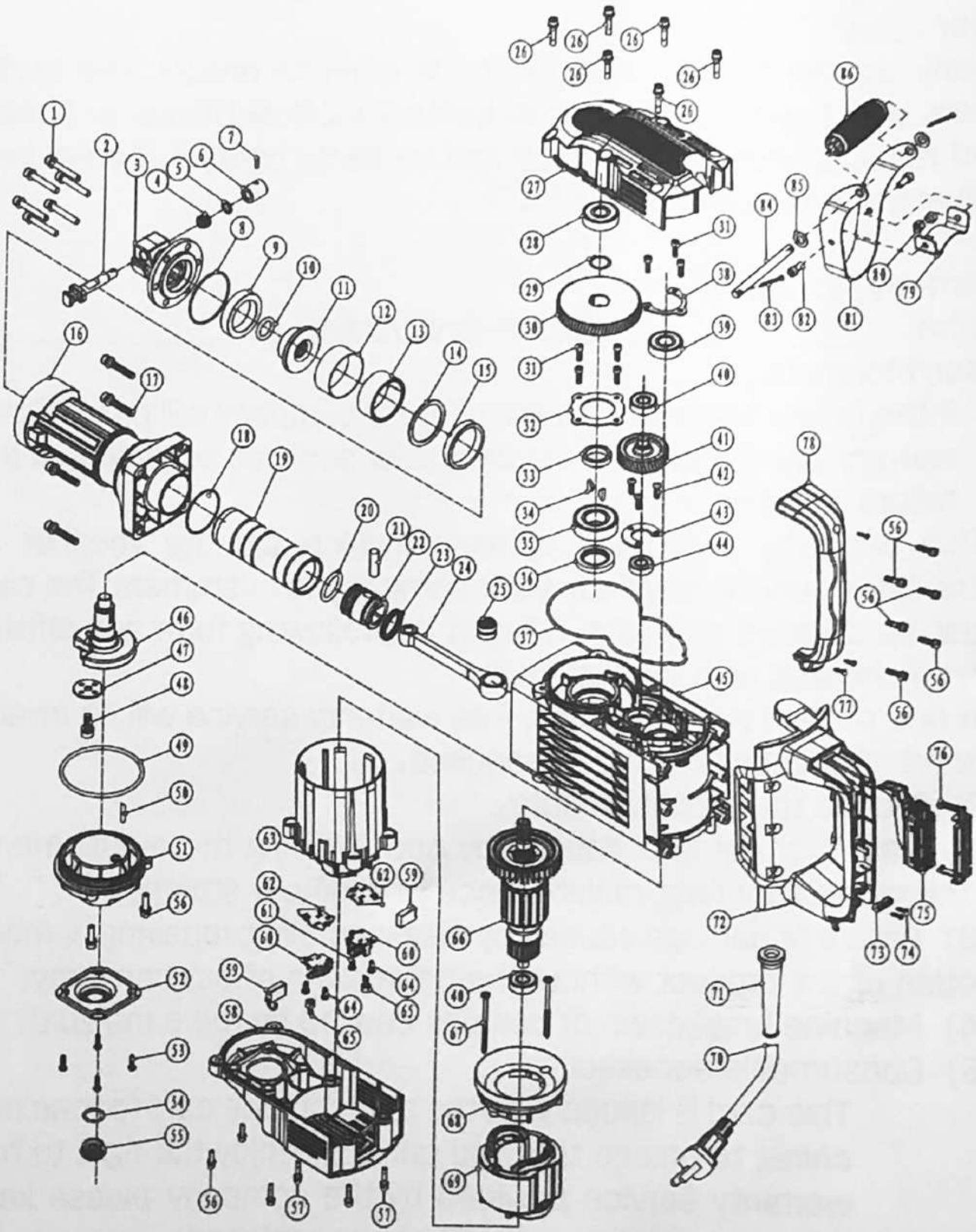
## ENVIRONMENT PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

PARTS LIST

| No. | Part Description | Qty. | No. | Part Description | Qty. |
|---|---|---|---|---|---|
| 1 | Screw M10x40 | 6 | 44 | Bearing 6001 | 1 |
| 2 | Lockpin | 1 | 45 | Gear box | 1 |
| 3 | Bit holder | 1 | 46 | Crank shaft | 1 |
| 4 | Spring | 1 | 47 | Crank washer | 1 |
| 5 | Washer | 1 | 48 | Screw M8x25 | 1 |
| 6 | Lockpin sleeve | 1 | 49 | O ring | 1 |
| 7 | Roll pin | 1 | 50 | Oil cord | 1 |
| 8 | O ring | 1 | 51 | Oil box | 1 |
| 9 | Damper | 1 | 52 | Cover of oil box | 1 |
| 10 | O ring | 1 | 53 | Screw ST50X20 | 4 |
| 11 | Shank sleeve | 1 | 54 | O ring | 1 |
| 12 | Splitting rubber ring | 1 | 55 | Oil gauge | 1 |
| 13 | Split ring | 1 | 56 | Screw M6X22 | 8 |
| 14 | Washer | 1 | 57 | Screw M6X35 | 4 |
| 15 | Buffer ring | 1 | 58 | Lower cover of gearbox | 1 |
| 16 | Cylinder case | 1 | 59 | Carbon brush | 2 |
| 17 | Screw M8x50 | 4 | 60 | Brush holder | 2 |
| 18 | O ring | 1 | 61 | Screw M4X18 | 2 |
| 19 | Cylinder | 1 | 62 | Mounted plate | 2 |
| 20 | O ring | 1 | 63 | Insulation sleeve | 1 |
| 21 | Piston pin | 1 | 64 | Screw KA40X16 | 2 |
| 22 | Piston | 1 | 65 | Disc spring | 2 |
| 23 | Seal ring | 1 | 66 | Rotor | 1 |
| 24 | Connecting rod | 1 | 67 | Screw ST4.8X80 | 2 |
| 25 | Needle bearing 1820 | 1 | 68 | Fan baffle | 1 |
| 26 | Screw M6x30 | 6 | 69 | Stator | 1 |
| 27 | Gear box cover | 1 | 70 | Cable and plug | 1 |
| 28 | Bearing 6302 | 1 | 71 | Cable protector | 1 |
| 29 | Circlip for shaft | 1 | 72 | Handle | 1 |
| 30 | Gear | 1 | 73 | Cable clamp | 1 |
| 31 | Screw M5x16 | 7 | 74 | Screw ST4.2X16 | 2 |
| 32 | Bearing press plate | 1 | 75 | Switch | 1 |
| 33 | Distance ring | 1 | 76 | Switch base | 1 |
| 34 | Woodruff key | 2 | 77 | Screw ST4.2X20 | 3 |
| 35 | Bearing 6205 | 1 | 78 | Handle cover | 1 |
| 36 | Seal ring | 1 | 79 | Handle stay | 1 |
| 37 | Seal ring | 1 | 80 | Nut | 2 |
| 38 | Bearing press plate | 1 | 81 | Auxiliary handle support | 1 |
| 39 | Bearing 6203 | 1 | 82 | Screw M8X20 | 2 |
| 40 | Bearing 6201 | 2 | 83 | Split pin | 2 |
| 41 | Gear | 1 | 84 | Handle shaft | 1 |
| 42 | Screw M5x16 | 3 | 85 | Washer | 2 |
| 43 | Bearing press plate | 1 | 86 | Auxiliary handle grip | 1 |

SCHEMATIC DRAWING



# Product Warranty Card

Dear users :

Thank you for buying our products. In order to ensure your profit, users who buy our products can contact local distributor or Specified repair stations with invoice and warranty cards if the product failures due to quality problems.

Warranty Notice:

1.From _____ (Year/Month/Day) to _____ (Year/Month/Day),

If the failure happen in normal use, our company will provide free warranty, parts replacement and other services according to the failure situation.

2.This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor.

3.In one of the following cases, free warranty service will be invalid, and maintenance fees will be required:

(1) Exceed the expiration date;

(2) Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage;

(3) Failure or damage caused by disassembling, repairing or modification of the product without the permission of our company;

(4) Machine breakdown or damage caused by force majeure;

(5) Consumable accessories.

This card is issued with the product. One card for one machine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

Purchase Date: _____ (Year/Month/Day)