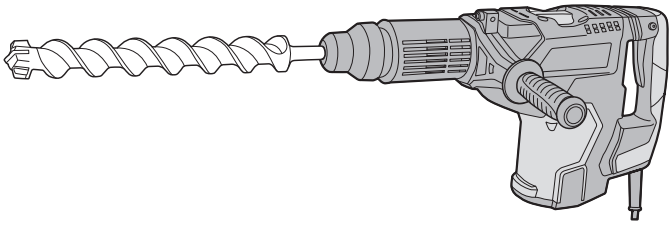
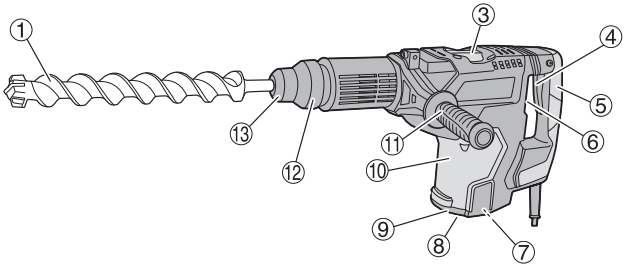
HiKOKI

DH 52MA

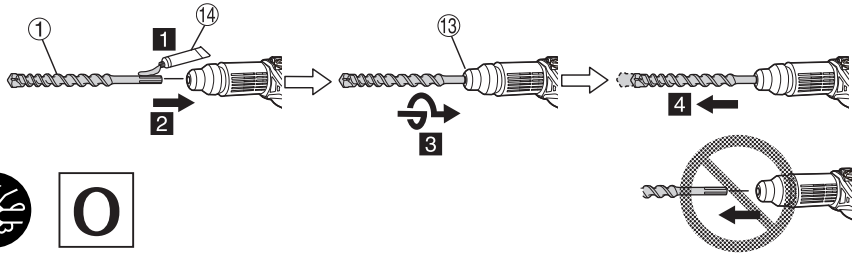


Handling instructions

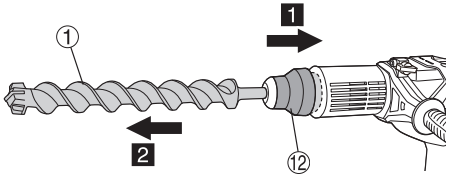
1



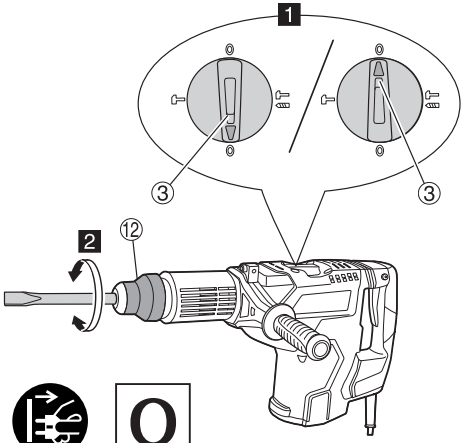
2



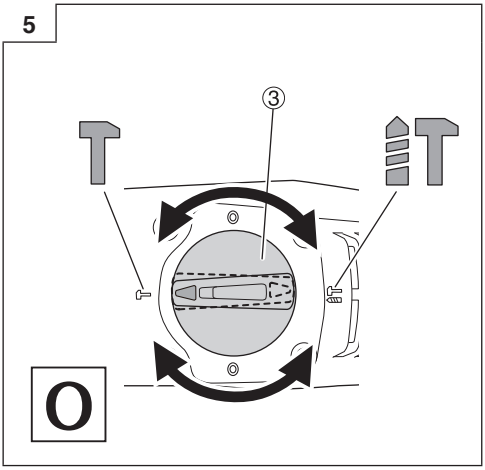
3



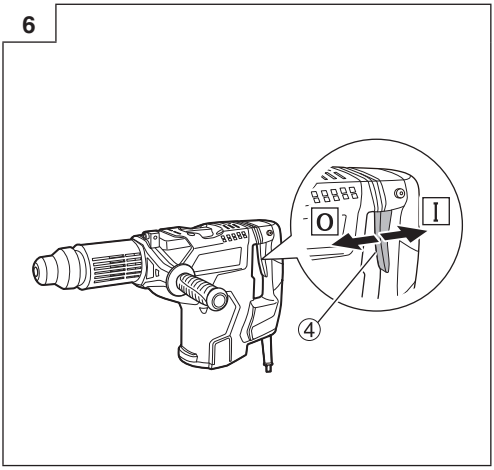
4



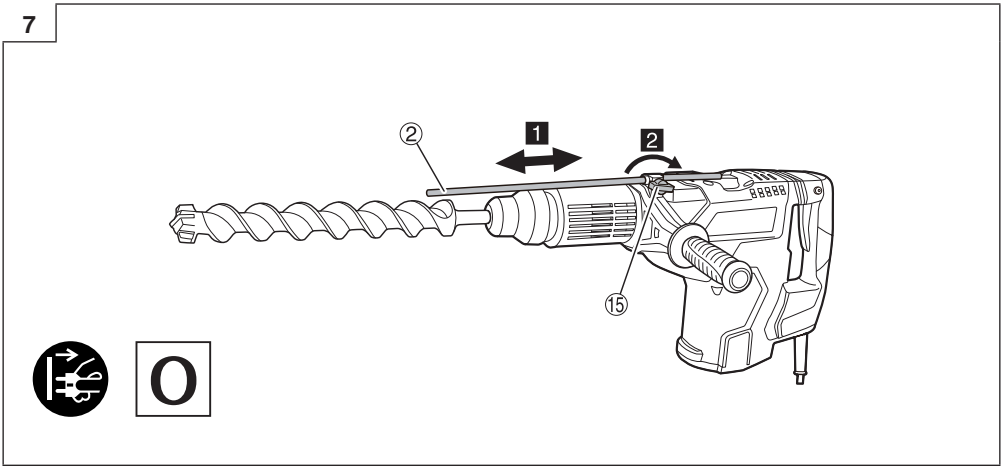
5



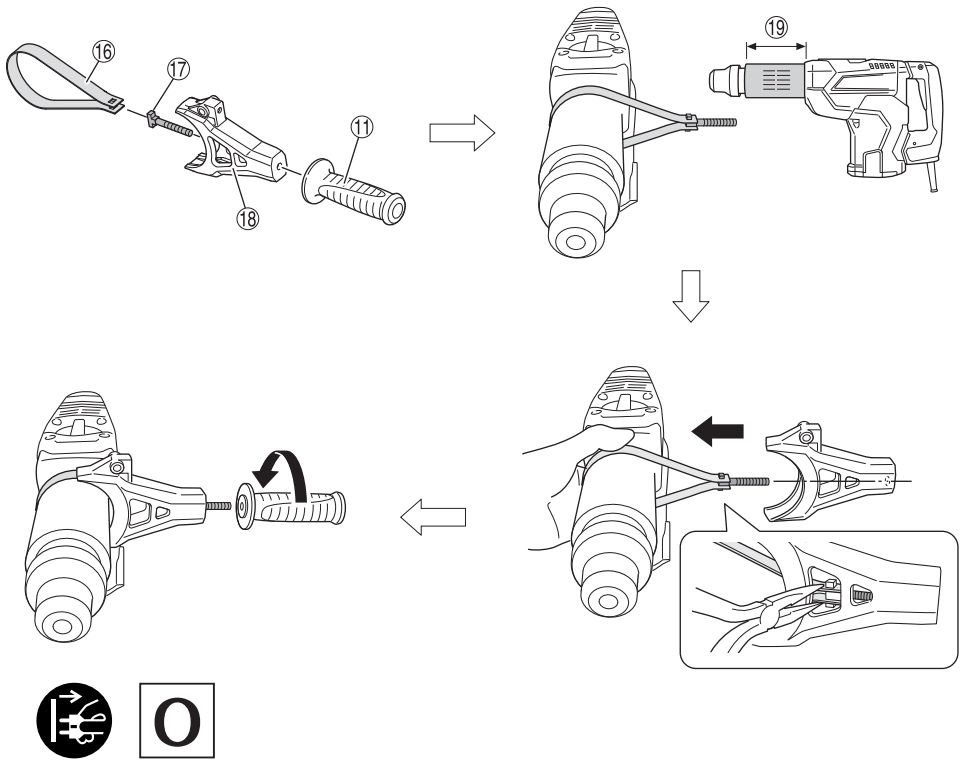
6



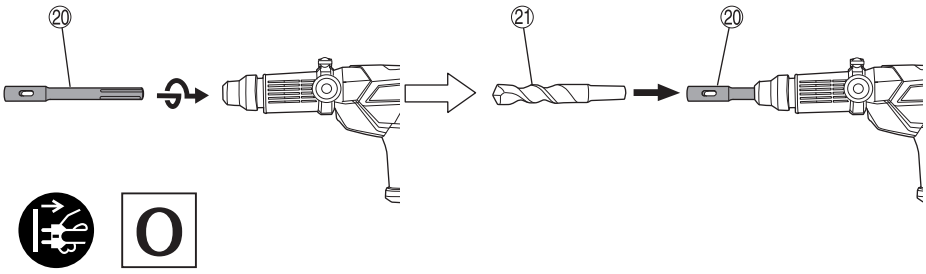
7



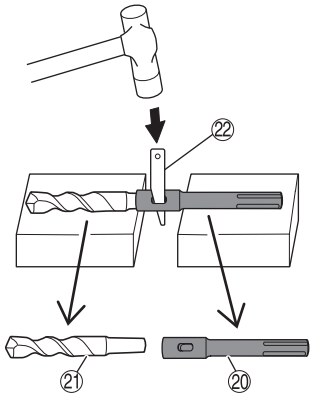
8



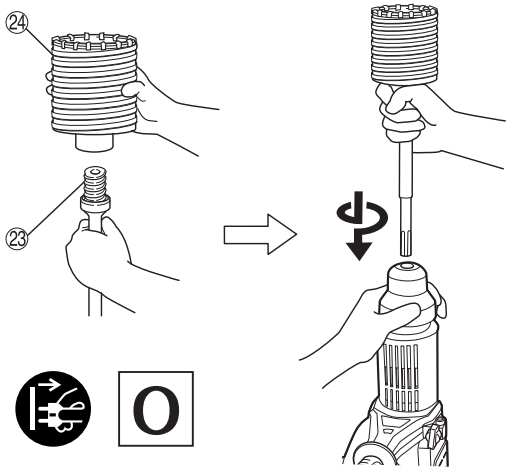
9



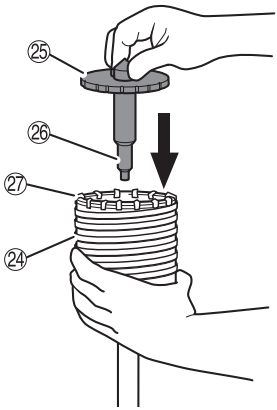
10



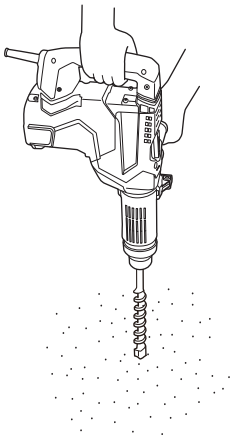
11



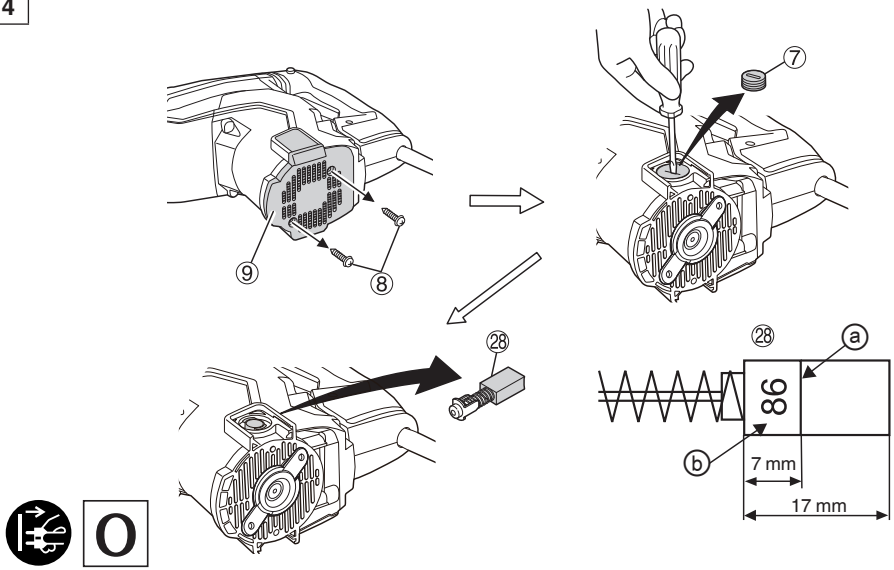
12



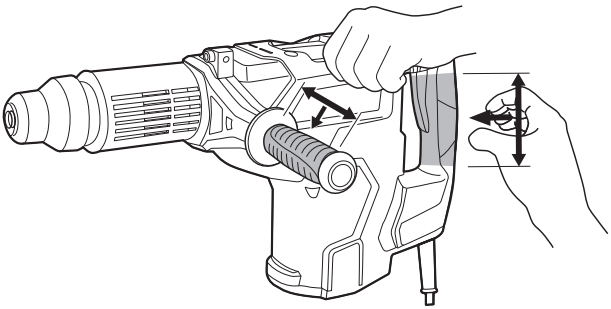
13



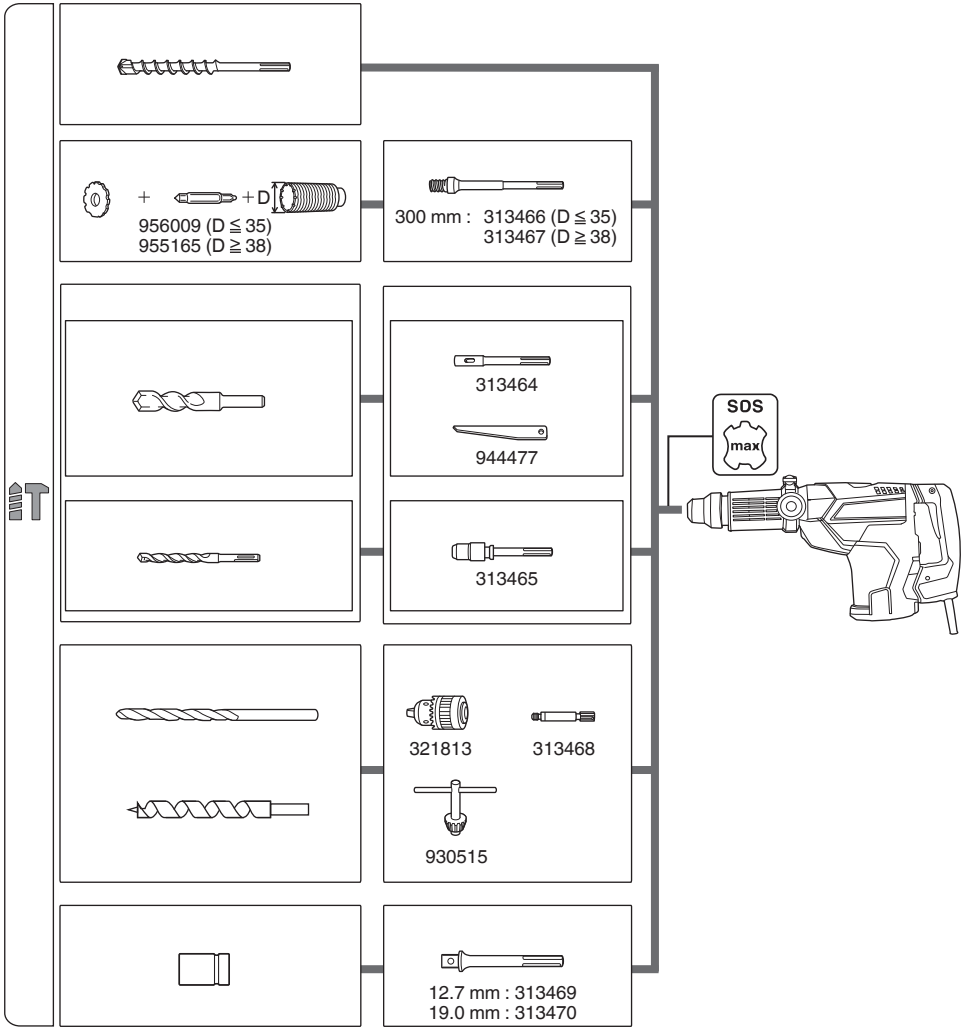
14

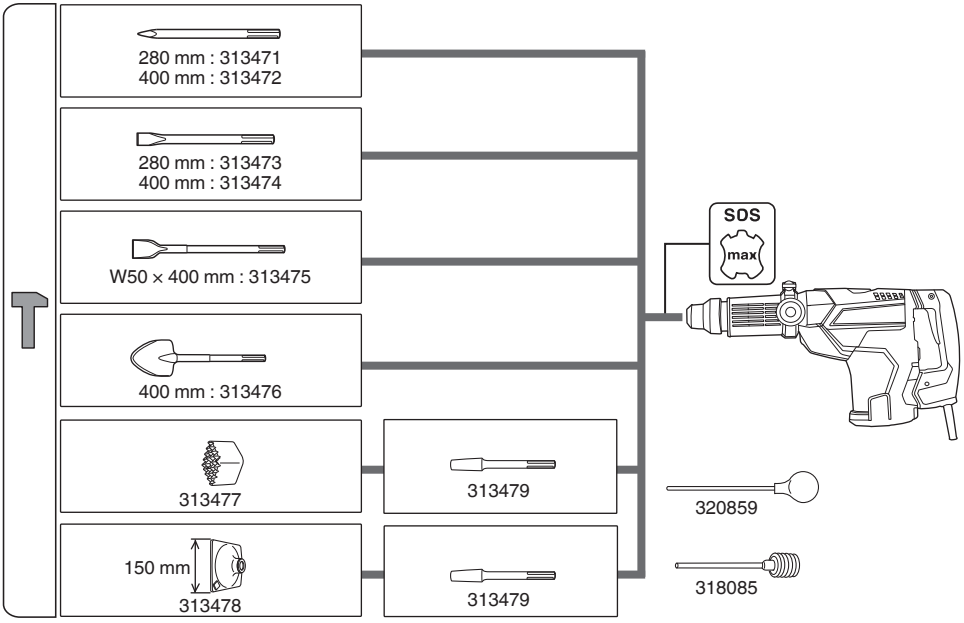


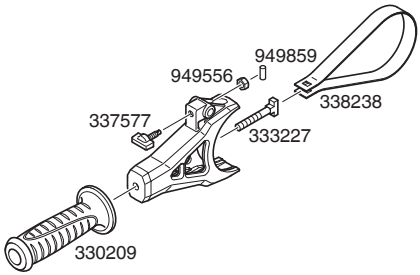
15

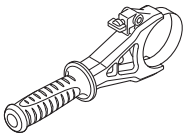


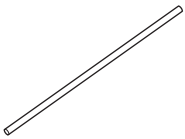
V	110 V ~
P	1500 W
n_0	330 min^{-1}
Bpm	2250 min^{-1}
ϕ max	52 mm
ϕ max	160 mm
kg	11.8 kg

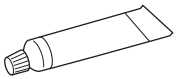

+ + D
956009 (D ≦ 35)
955165 (D ≧ 38)
300 mm : 313466 (D ≦ 35)
313467 (D ≧ 38)
313464
944477
313465
321813
313468
930515
12.7 mm : 313469
19.0 mm : 313470
SDS
max

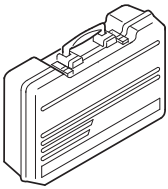





376577


971786


30 g : 981840


378308

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING
Read all safety warnings, instructions, illustrations and specifications provided with this power tool.
Failure to follow all instructions listed below 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.

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 a 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 and clothing 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.
   h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.**
   A careless action can cause severe injury within a fraction of a second.

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 remove the battery pack, if detachable, 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 and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.**
   Many accidents are caused by poorly maintained power tools.
   f) **Keep cutting tools sharp and clean.**
   Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
   g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.**
   Use of the power tool for operations different from those intended could result in a hazardous situation.

h) Keep handles and grasping surfaces dry, clean and free from oil and grease.
Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

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.

PRECAUTION
Keep children and infirm persons away.
When not in use, tools should be stored out of reach of children and infirm persons.

ROTARY HAMMER SAFETY WARNINGS

1) Safety instructions for all operations

a) Wear ear protectors
Exposure to noise can cause hearing loss.

b) Use auxiliary handle(s), if supplied with the tool.
Loss of control can cause personal injury.

c) Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord.
Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

2) Safety instructions when using long drill bits with rotary hammers

a) Always start drilling at low speed and with the bit tip in contact with the workpiece.
At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

b) Apply pressure only in direct line with the bit and do not apply excessive pressure.
Bits can bend causing breakage or loss of control, resulting in personal injury.

ADDITIONAL SAFETY WARNINGS

1. Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.
2. Ensure that the power switch is in the OFF position.
   If the plug is connected to a receptacle while the power switch is in the ON position, the power tool will start operating immediately, which could cause a serious accident.
3. When the work area is removed from the power source, use an extension cord of sufficient thickness and rated capacity. The extension cord should be kept as short as practicable.
4. Do not touch the bit during or immediately after operation. The bit becomes very hot during operation and could cause serious burns.
5. Before starting to break, chip or drill into a wall, floor or ceiling, thoroughly confirm that such items as electric cables or conduits are not buried inside.
6. Always hold the body handle and side handle of the power tool firmly. Otherwise the counterforce produced may result in inaccurate and even dangerous operation.
7. Wear a dust mask.
   Do not inhale the harmful dusts generated in drilling or chiseling operation. The dust can endanger the health of yourself and bystanders.
8. Mounting the tool
   - To prevent accidents, make sure to turn the switch off and disconnect the plug from the receptacle.
   - When using tools such as bull points, drill bits, etc., make sure to use the genuine parts designated by our company.
   - Clean the shank portion of the drill bit. Then smear the shank portion with the grease or machine oil.
9. The rotation speed cannot be changed by pressing the rotation speed selector switch while the motor is rotating. To change speeds, switch off the tool first.
10. RCD
    The use of a residual current device with a rated residual current of 30 mA or less at all times is recommended.
11. Make sure to securely hold the tool as shown in **Fig. 15** during operation.

NAMES OF PARTS (Fig. 1–Fig. 15)

①	Drill bit	⑮	Wing bolt
②	Stopper	⑯	Band
③	Selector lever	⑰	Handle bolt
④	Switch trigger	⑱	Mount
⑤	Handle	⑲	Band attachment area
⑥	Nameplate	⑳	Taper shank adapter
⑦	Brush cap (Inside the Tail cover)	㉑	Drill bit (Taper shank)
⑧	Set screw (Under the Tail cover)	㉒	Cotter
⑨	Tail cover	㉓	Core bit shank
⑩	Housing	㉔	Core bit
⑪	Side handle	㉕	Guide plate
⑫	Grip	㉖	Center pin
⑬	Front cap	㉗	Core bit tip
⑭	Grease	㉘	Carbon brush

SYMBOLS

WARNING
The following show symbols used for the machine. Be sure that you understand their meaning before use.

	DH52MA: Rotary Hammer
	To reduce the risk of injury, user must read instruction manual
	Only for EU countries Do not dispose of electric tools together with household waste material! In observance of European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

V	Rated voltage (Ensure that the power source to be utilized conforms to the power requirements specified on the product nameplate.)
P	Power Input
n_0	No-load speed
Bpm	Full-load impact rate
ϕ max	Drilling diameter, max.
kg	Weight (According to EPTA-Procedure 01/2014)
	Drill bit
	Core bit
	Adjustment of the tool position function
	Hammering only function
	Rotation and hammering function
I	Switching ON
O	Switching OFF
	Disconnect mains plug from electrical outlet
	Class II tool
SDS max	SDS max shank

STANDARD ACCESSORIES

In addition to the main unit (1 unit), the package contains the accessories listed in the below.

- Plastic case 1
- Side handle 1
- Hammer Grease A 1

Standard accessories are subject to change without notice.

APPLICATIONS

Rotation and hammering function
- Drilling anchor holes
- Drilling holes in concrete

Hammering only function
- Crushing concrete, chipping, digging, and squaring

(Some applications need optional accessories)

SPECIFICATIONS

The specifications of this machine are listed in the Table on page 6.

NOTE

Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.

MOUNTING AND OPERATION

Action	Figure	Page
Inserting SDS-max tools	2	2
Removing SDS-max tools	3	2
Changing tool direction	4	2
Selecting the operating mode	5	3
Switching on and off	6	3
Install the stopper	7	3
Installing the side handle	8	4
Using tapershank adapter	9	4
Removing tapershank adapter	10	5
Mounting core bit	11	5
Mounting guide plate and center pin	12	5
Replacing carbon brushes	14	6
Selecting accessories*	–	7, 8

* For detailed information regarding each tool, contact a HiKOKI authorized service center.

Operate this Rotary Hammer by utilizing its own weight. The performance will not be better even if it is pressed or thrust forcibly against the work surface.
Hold this Rotary Hammer with a force just sufficient to counteract the reaction.

Warming up (Fig. 13)

The grease lubrication system in this unit may require warming up in cold regions.
Position the end of the bit so makes contact with the concrete, turn on the switch and perform the warming up operation. Make sure that a hitting sound is produced and then use the unit.

CAUTION

When the warming up operation is performed, hold the side handle and the main body securely with both hands to maintain a secure grip and be careful not to twist your body by the jammed drill bit.

GREASE REPLACEMENT

This Rotary Hammer is of full air-tight construction to protect against dust and to prevent lubricant leakage.
Therefore, this Rotary Hammer can be used without lubrication for long periods. Replace the grease as described below.

Grease Replacement Period

After purchase, replace grease after every 6 months of usage. Ask for grease replacement at the nearest authorized Service Center.

MAINTENANCE AND INSPECTION

1. **Inspecting the tool bits**
   Since use of a dull tool will cause motor malfunctioning and degraded efficiency, replace the tool bit with new ones or resharpen them without delay when abrasion is noted.
2. **Inspecting the mounting screws**
   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.
3. **Maintenance of the motor**
   The motor unit winding is the very "heart" of the power tool. Exercise due care to ensure the winding does not become damaged and/or wet with oil or water.
4. **Inspecting the carbon brushes (Fig. 14)**
   The Motor employs carbon brushes which are consumable parts. When they become worn to or near the "wear limit" ⓐ, it results in motor trouble.
   When an auto-stop carbon brush is equipped, the motor will stop automatically. At that time, replace both carbon brushes with new ones which have the same carbon brush Numbers ⓑ shown in the **Fig. 14**. In addition, always keep carbon brushes clean and ensure that they slide freely within the brush holders.
5. **Replacing carbon brushes (Fig. 14)**
   Loosen the two set screws and remove the tail cover. Remove the brush caps and carbon brushes. After replacing the carbon brushes, do not forget to tighten the brush caps securely and to install the tail cover.
6. **Replacing supply cord**
   If the replacement of the supply cord is necessary, this has to be done by the manufacturer of this agent in order to avoid a safety hazard.

CAUTION

In the operation and maintenance of power tools, the safety regulations and standards prescribed in each country must be observed.

GUARANTEE

We guarantee HiKOKI Power Tools in accordance with statutory/country specific regulation. This guarantee does not cover defects or damage due to misuse, abuse, or normal wear and tear. In case of complaint, please send the Power Tool, undismantled, with the GUARANTEE CERTIFICATE found at the end of this Handling instruction, to a HiKOKI Authorized Service Center.

IMPORTANT

Correct connection of the plug
The wires of the main lead are coloured in accordance with the following code:

Blue: — Neutral
Brown: — Live

As the colours of the wires in the main lead of this tool may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire coloured blue must be connected to the terminal marked with the letter N or coloured black. The wire coloured brown must be connected to the terminal marked with the letter L or coloured red. Neither core must be connected to the earth terminal.
NOTE:
This requirement is provided according to BRITISH STANDARD 2769: 1984.
Therefore, the letter code and colour code may not be applicable to other markets except The United Kingdom.

Information concerning airborne noise and vibration
The measured values were determined according to EN62841 and declared in accordance with ISO 4871.

Measured A-weighted sound power level: 108 dB (A)
Measured A-weighted sound pressure level: 100 dB (A)
Uncertainty K: 3 dB (A).

Wear hearing protection.

Vibration total values (triax vector sum) determined according to EN62841.

Hammer drilling into concrete:
Vibration emission value a_h, **HD** = 15.1 m/s^2
Uncertainty K = 1.5 m/s^2

Equivalent chiselling value:
Vibration emission value a_h, **CHeq** = 10.8 m/s^2
Uncertainty K = 1.5 m/s^2

The declared vibration total value and the declared noise emission value have been measured in accordance with a standard test method and may be used for comparing one tool with another.
They may also be used in a preliminary assessment of exposure.
WARNING

- The vibration and noise emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used especially what kind of workpiece is processed; and
- Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

NOTE
Due to HiKOKI's continuing program of research and development, the specifications herein are subject to change without prior notice.

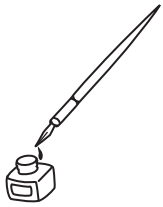
Information for power supply system to be used with electric tools provided with rated voltage 230 V~
Switching operations of electric apparatus cause voltage fluctuations.
The operation of this electric tool under unfavorable mains conditions can have adverse effects to the operation of other electric apparatus.
With a mains impedance equal or less than 0.327 Ohms there will probably be no negative effects.
Usually, the maximum permissible mains impedance will not be exceeded when the branch to the power outlet is fed from a junction box with a service capacity of 25 ampere or higher.
In case of power failure, or when the power plug is pulled out, immediately return the switch to OFF position. This prevents an uncontrolled restart.

HiKOKI

GUARANTEE CERTIFICATE

Model No.
Serial No.
Date of Purchase
Customer Name and Address
Dealer Name and Address (Please stamp dealer name and address)

Hikoki Power Tools (U.K.) Ltd.
25 Majestic Road, Southampton, SO16 OYT, United Kingdom
Tel: +44 1908 660663
Fax: +44 1908 606642
URL: http://www.hikoki-powertools.uk



EC DECLARATION OF CONFORMITY

We declare under our sole responsibility that Rotary Hammer, identified by type and specific identification code *1), is in conformity with all relevant requirements of the directives *2) and standards *3). Tim Sieberns who is authorized to compile the technical file is at *4) – See below.
The declaration is applicable to the product affixed CE marking.

*1) DH52MA C361948N

*2) 2006/42/EC, 2014/30/EU, 2011/65/EU

*3) EN62841-1:2015+A11:2022
EN62841-2-6:2020+A11:2020
EN55014-1:2006+A1:2009+A2:2011
EN55014-2:1997+A1:2001+A2:2008
EN61000-3-2:2014
EN61000-3-11:2000

*4) Representative office in Europe
Koki Holdings Europe GmbH
Metabo-Allee 1, 72622 Nuertingen, Germany

Head office in Japan
Koki Holdings Co., Ltd.
Shinagawa Intercity Tower A, 15-1, Konan 2-chome,
Minato-ku, Tokyo, Japan

CE

31. 12. 2024

A. Yahagi
General Manager of
Validation/Service Division
Koki Holdings Co., Ltd.

Koki Holdings Co., Ltd.

412
Code No. C99743954 M
Printed in China