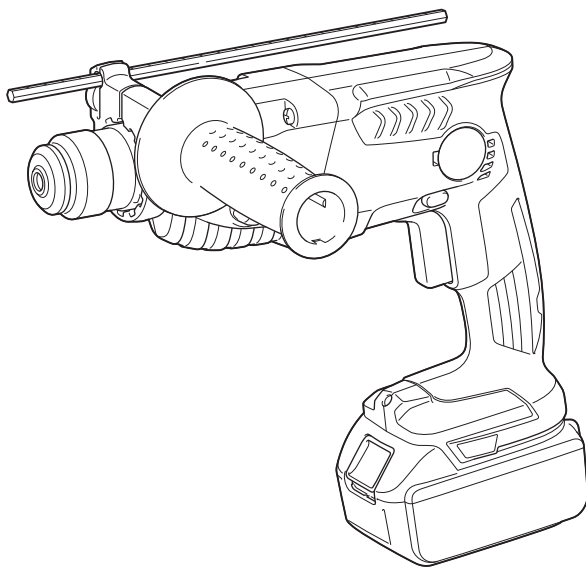
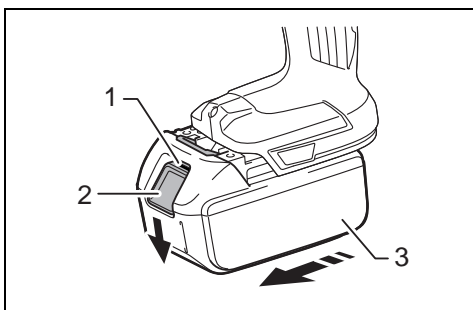


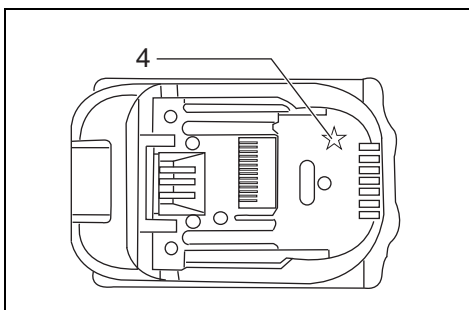


**DHR164**  
**DHR165**

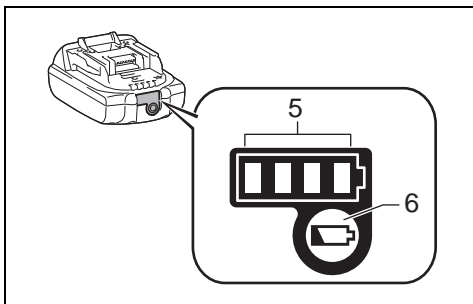




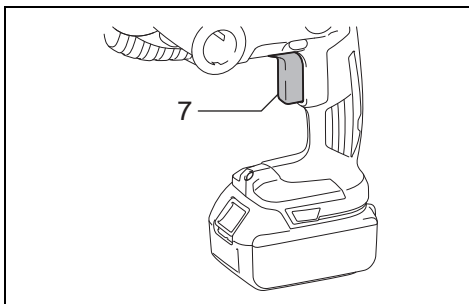
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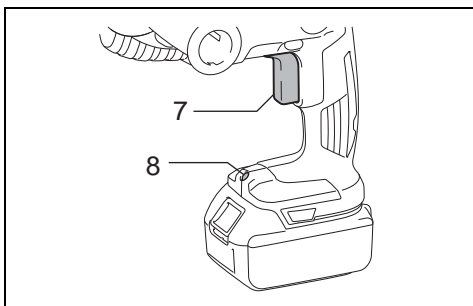
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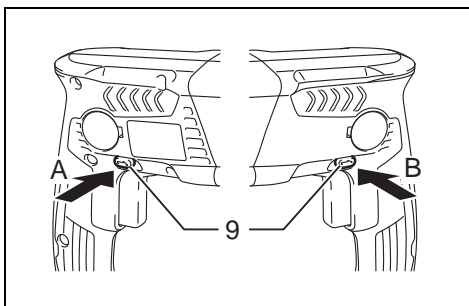
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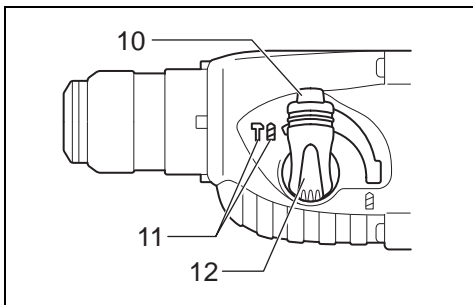
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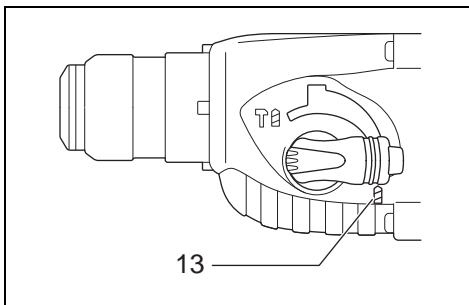
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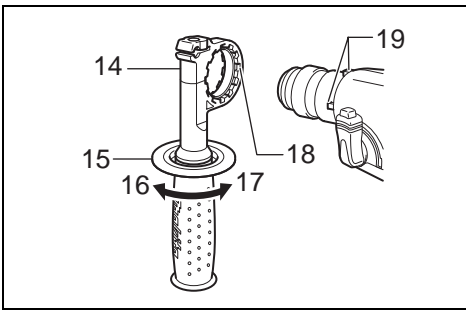
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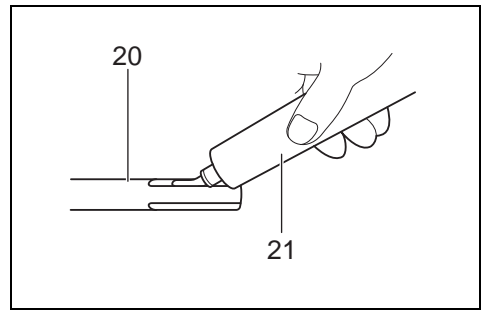
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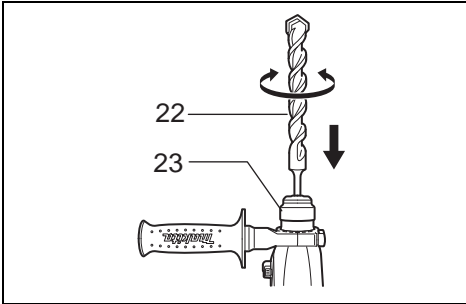
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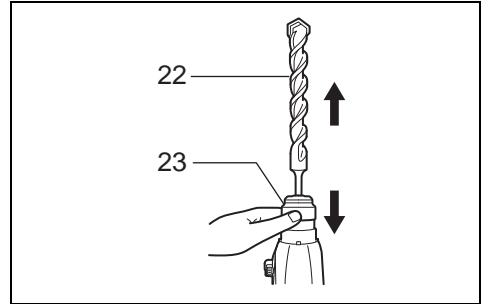
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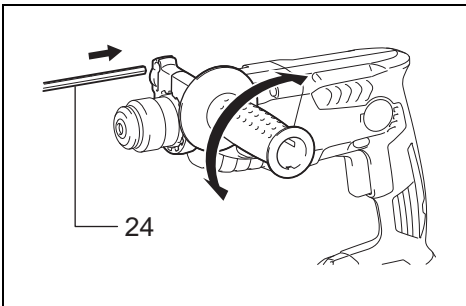
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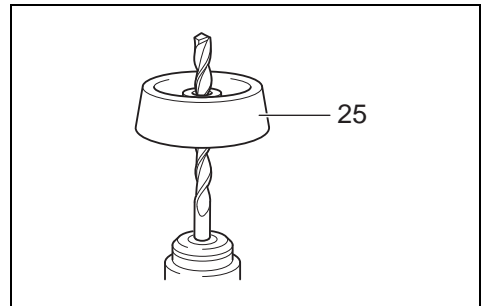
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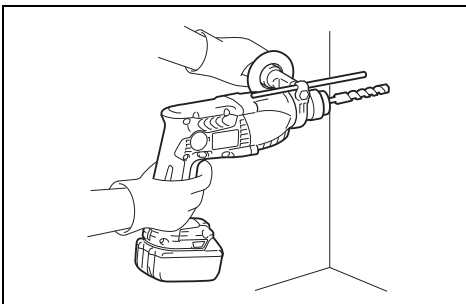
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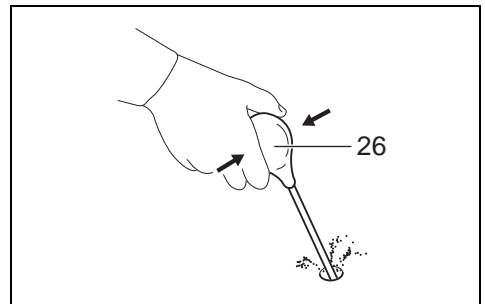
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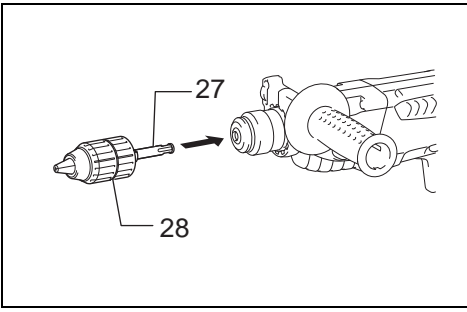
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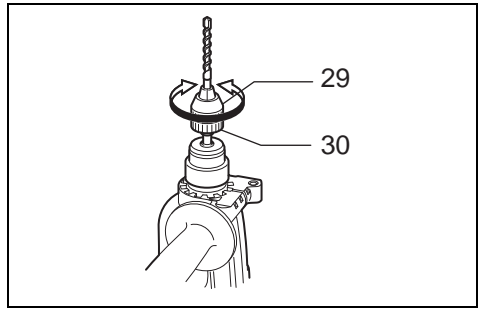


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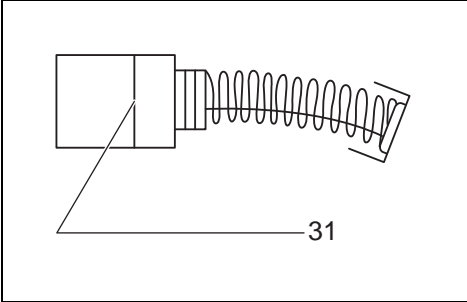
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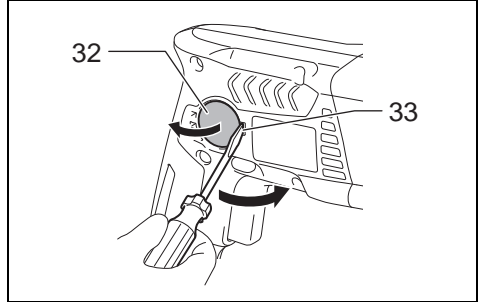
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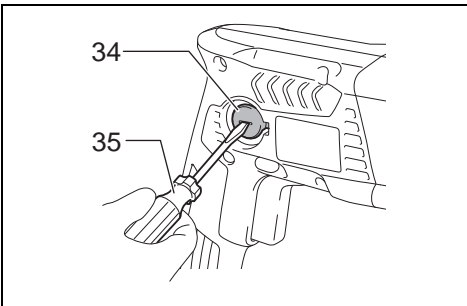
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**Explanation of general view**

1 Red indicator	13 Rotation only	25 Dust cup
2 Button	14 Grip base	26 Blow-out bulb
3 Battery cartridge	15 Side grip	27 Chuck adapter
4 Star marking	16 Loosen	28 Keyless drill chuck
5 Indicator lamps	17 Tighten	29 Sleeve
6 Check button	18 Teeth	30 Ring
7 Switch trigger	19 Protrusion	31 Limit mark
8 Lamp	20 Bit shank	32 Holder cap cover
9 Reversing switch lever	21 Bit grease	33 Recessed part
10 Lock button	22 Bit	34 Brush holde cap
11 Rotation with hammering	23 Chuck cover	35 Screwdriver
12 Action mode changing knob	24 Depth gauge	

**SPECIFICATIONS**

Model		DHR164		DHR165	
Capacities	Concrete	16 mm			
	Steel	13 mm			
	Wood	24 mm			
No load speed		0 – 1,600 min <sup>-1</sup>			
Blows per minute		0 – 5,300			
Overall length		297 mm			
Rated voltage		D.C. 14.4 V		D.C. 18 V	
Battery cartridge		BL1415N	BL1430/BL1440/ BL1450	BL1815N/ BL1820/BL1820B	BL1830/BL1840/ BL1840B/BL1850/ BL1850B
Net weight		2.2 kg	2.4 kg	2.2 kg	2.5 kg

GEB046-2

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.
- Specifications and battery cartridge may differ from country to country.
- Weight, with battery cartridge, according to EPTA-Procedure 01/2003

ENE042-1

**Intended use**

The tool is intended for hammer drilling and drilling in brick, concrete and stone. It is also suitable for drilling without impact in wood, metal, ceramic and plastic.

GEA010-1

**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.**

**CORDLESS ROTARY HAMMER SAFETY WARNINGS**

1. **Wear ear protectors.** Exposure to noise can cause hearing loss.
2. **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
3. **Hold power tools by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
4. **Wear a hard hat (safety helmet), safety glasses and/or face shield. Ordinary eye or sun glasses are NOT safety glasses.** It is also highly recommended that you wear a dust mask and thickly padded gloves.
5. **Be sure the bit is secured in place before operation.**
6. **Under normal operation, the tool is designed to produce vibration. The screws can come loose easily, causing a breakdown or accident. Check tightness of screws carefully before operation.**

7. In cold weather or when the tool has not been used for a long time, let the tool warm up for a while by operating it under no load. This will loosen up the lubrication. Without proper warm-up, hammering operation is difficult.
  8. Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
  9. Hold the tool firmly with both hands.
  10. Keep hands away from moving parts.
  11. Do not leave the tool running. Operate the tool only when hand-held.
  12. Do not point the tool at any one in the area when operating. The bit could fly out and injure someone seriously.
  13. Do not touch the bit or parts close to the bit immediately after operation; they may be extremely hot and could burn your skin.
  14. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.
8. Be careful not to drop or strike battery.
  9. Do not use a damaged battery.
  10. Follow your local regulations relating to disposal of battery.

## SAVE THESE INSTRUCTIONS.

### Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 10°C – 40°C (50°F – 104°F). Let a hot battery cartridge cool down before charging it.
4. Charge the battery cartridge if you do not use it for a long period (more than six months).

## FUNCTIONAL DESCRIPTION

### ⚠ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.

### Installing or removing battery cartridge (Fig. 1)

### ⚠ CAUTION:

- Always switch off the tool before installing or removing of the battery cartridge.
- Hold the tool and the battery cartridge firmly when installing or removing battery cartridge. Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.

### ⚠ CAUTION:

- Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.
- Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

### Battery protection system (Lithium-ion battery with star marking) (Fig. 2)

Lithium-ion batteries with a star marking are equipped with a protection system. This system automatically cuts off power to the tool to extend battery life.

The tool will automatically stop during operation if the tool and/or battery are placed under one of the following conditions:

- Overloaded:  
The tool is operated in a manner that causes it to draw an abnormally high current.

## SAVE THESE INSTRUCTIONS.

### ⚠ WARNING:

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to safety rules for the subject product. MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

ENC007-9

## IMPORTANT SAFETY INSTRUCTIONS

### FOR BATTERY CARTRIDGE

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge:
  - (1) Do not touch the terminals with any conductive material.
  - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
  - (3) Do not expose battery cartridge to water or rain.

A battery short can cause a large current flow, overheating, possible burns and even a breakdown.

6. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.

In this situation, release the trigger switch on the tool and stop the application that caused the tool to become overloaded. Then pull the trigger switch again to restart.



















If the tool does not start, the battery is overheated. In this situation, let the battery cool before pulling the trigger switch again.

- **Low battery voltage:**  
The remaining battery capacity is too low and the tool will not operate. In this situation, remove and recharge the battery.

### Indicating the remaining battery capacity (Fig. 3)

(Only for battery cartridges with "B" at the end of the model number.)

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lamps light up for few seconds.

Indicator lamps			Remaining capacity
 Lighted	 Off	 Blinking	
			75% to 100%
			50% to 75%
			25% to 50%
			0% to 25%
			Charge the battery.
 	 	 	The battery may have malfunctioned.

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#### NOTE:

- Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

### Switch action (Fig. 4)

#### ⚠ CAUTION:

- Before inserting the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.

### Lighting up the lamp (Fig. 5)

#### ⚠ CAUTION:

- Do not look in the light or see the source of light directly.

Pull the switch trigger to light up the lamp. The lamp keeps on lighting while the switch trigger is being pulled. The light automatically goes out 10 – 15 seconds after the switch trigger is released.

#### NOTE:

- Use a dry cloth to wipe the dirt off the lens of the lamp. Be careful not to scratch the lens of lamp, or it may lower the illumination.
- Do not use thinner or gasoline to clean the lamp. Such solvents may damage it.

### Reversing switch action (Fig. 6)

This tool has a reversing switch to change the direction of rotation. Depress the reversing switch lever from the A side for clockwise rotation or from the B side for counterclockwise rotation.


When the reversing switch lever is in the neutral position, the switch trigger cannot be pulled.

#### ⚠ CAUTION:


- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.
- When not operating the tool, always set the reversing switch lever to the neutral position.

### Selecting the action mode

#### Rotation with hammering (Fig. 7)

For drilling in concrete, masonry, etc., depress the lock button and rotate the action mode changing knob to the  symbol. Use a tungsten-carbide tipped bit.

#### Rotation only (Fig. 8)

For drilling in wood, metal or plastic materials, depress the lock button and rotate the action mode changing knob to the  symbol. Use a twist drill bit or wood bit.

#### ⚠ CAUTION:

- Do not rotate the action mode changing knob when the tool is running. The tool will be damaged.
- To avoid rapid wear on the mode change mechanism, be sure that the action mode changing knob is always positively located in one of the action mode positions.

### Torque limiter

The torque limiter will actuate when a certain torque level is reached. The motor will disengage from the output shaft. When this happens, the bit will stop turning.

#### ⚠ CAUTION:

- As soon as the torque limiter actuates, switch off the tool immediately. This will help prevent premature wear of the tool.
- Hole saws cannot be used with this tool. They tend to pinch or catch easily in the hole. This will cause the torque limiter to actuate too frequently.

### ASSEMBLY

#### ⚠ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

## Side grip (auxiliary handle) (Fig. 9)

### ⚠ CAUTION:

- Always use the side grip to ensure operating safety.

Install the side grip so that the teeth on the grip fit in between the protrusions on the tool barrel. Then tighten the grip by turning clockwise at the desired position. It may be swung 360° so as to be secured at any position.

### Bit grease

Coat the bit shank head beforehand with a small amount of bit grease (about 0.5 – 1 g). This chuck lubrication assures smooth action and longer service life.

### Installing or removing the bit

Clean the bit shank and apply bit grease before installing the bit. (Fig. 10)

Insert the bit into the tool. Turn the bit and push it in until it engages.

If the bit cannot be pushed in, remove the bit. Pull the chuck cover down a couple of times. Then insert the bit again. Turn the bit and push it in until it engages. (Fig. 11)

After installing, always make sure that the bit is securely held in place by trying to pull it out.

To remove the bit, pull the chuck cover down all the way and pull the bit out. (Fig. 12)

### Depth gauge (Fig. 13)

The depth gauge is convenient for drilling holes of uniform depth. Loosen the side grip and insert the depth gauge into the hole in the side grip. Adjust the depth gauge to the desired depth and tighten the side grip.

### NOTE:

- The depth gauge cannot be used at the position where the depth gauge strikes against the gear housing.

### Dust cup (optional accessory) (Fig. 14)


Use the dust cup to prevent dust from falling over the tool and on yourself when performing overhead drilling operations. Attach the dust cup to the bit as shown in the figure. The size of bits which the dust cup can be attached to is as follows.

	Bit diameter
Dust cup 5	6 mm – 14.5 mm
Dust cup 9	12 mm – 16 mm

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## OPERATION

### Hammer drilling operation (Fig. 15)

Set the action mode changing knob to the  symbol.

Position the bit at the desired location for the hole, then pull the switch trigger.

Do not force the tool. Light pressure gives best results.

Keep the tool in position and prevent it from slipping away from the hole.

Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

### ⚠ CAUTION:

- There is a tremendous and sudden twisting force exerted on the tool/bit at the time of hole breakthrough, when the hole becomes clogged with chips and particles, or when striking reinforcing rods embedded in the concrete. Always use the side grip (auxiliary handle) and firmly hold the tool by both side grip and switch handle during operations. Failure to do so may result in the loss of control of the tool and potentially severe injury.

### NOTE:


- Eccentricity in the bit rotation may occur while operating the tool with no load. The tool automatically centers itself during operation. This does not affect the drilling precision.

### Blow-out bulb (optional accessory) (Fig. 16)

After drilling the hole, use the blow-out bulb to clean the dust out of the hole.

### Drilling in wood or metal (Fig. 17 & 18)

Use the optional drill chuck assembly. When installing it, refer to "Installing or removing the bit" described on the previous page.

Set the action mode changing knob so that the pointer points to the  symbol.

### ⚠ CAUTION:

- Never use "rotation with hammering" when the drill chuck assembly is installed on the tool. The drill chuck assembly may be damaged. Also, the drill chuck will come off when reversing the tool.
- Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- There is a tremendous twisting force exerted on the tool/bit at the time of hole breakthrough. Hold the tool firmly and exert care when the bit begins to break through the workpiece.
- A stuck bit can be removed simply by setting the reversing switch to reverse rotation in order to back out. However, the tool may back out abruptly if you do not hold it firmly.
- Always secure small workpieces in a vise or similar hold-down device.

## MAINTENANCE

### ⚠ CAUTION:

- Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.
- Never use gasoline, benzene, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

### Replacing carbon brushes (Fig. 19, 20 & 21)

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

Remove holder cap covers by inserting the slotted bit screwdriver into the recessed part in the tool and lifting it up.

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



Remount the holder cap covers on the tool.  
To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized Service Centers, always using Makita replacement parts.

## OPTIONAL ACCESSORIES

### ⚠ CAUTION:

- These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita Service Center.

- SDS-Plus Carbide-tipped bits
- Drill chuck assembly
- Drill chuck S13
- Chuck adapter
- Chuck key S13
- Bit grease
- Side grip
- Depth gauge
- Blow-out bulb
- Dust cup
- Dust extractor attachment
- Safety goggles
- Plastic carrying case
- Keyless drill chuck
- Makita genuine battery and charger

### NOTE:

- Some items in the list may be included in the tool package as standard accessories. They may differ from country to country.

ENG905-1

## Noise

The typical A-weighted noise level determined according to EN60745:

### Model DHR164

Sound pressure level ( $L_{pA}$ ): 85 dB (A)  
Sound power level ( $L_{WA}$ ): 96 dB (A)  
Uncertainty (K): 3 dB (A)

### Model DHR165

Sound pressure level ( $L_{pA}$ ): 88 dB (A)  
Sound power level ( $L_{WA}$ ): 99 dB (A)  
Uncertainty (K): 3 dB (A)

### Wear ear protection

ENG900-1

## Vibration

The vibration total value (tri-axial vector sum) determined according to EN60745:

### Model DHR164

Work mode: hammer drilling into concrete  
Vibration emission ( $a_{h,HD}$ ): 12.5 m/s<sup>2</sup>  
Uncertainty (K): 2.0 m/s<sup>2</sup>

Work mode: drilling into metal  
Vibration emission ( $a_{h,D}$ ): 3.5 m/s<sup>2</sup>  
Uncertainty (K): 1.5 m/s<sup>2</sup>

### Model DHR165

Work mode: hammer drilling into concrete  
Vibration emission ( $a_{h,HD}$ ): 12.0 m/s<sup>2</sup>  
Uncertainty (K): 1.5 m/s<sup>2</sup>

Work mode: drilling into metal  
Vibration emission ( $a_{h,D}$ ): 3.0 m/s<sup>2</sup>  
Uncertainty (K): 1.5 m/s<sup>2</sup>

ENG901-1

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

### ⚠ WARNING:

- The vibration emission during actual use of the power tool can differ from the declared emission value depending on the ways in which the tool is used.
- Be sure to 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).

ENH101-18

## For European countries only

### EC Declaration of Conformity

#### Makita declares that the following Machine(s):

Designation of Machine:  
Cordless Rotary Hammer  
Model No./ Type: DHR164, DHR165

#### Conforms to the following European Directives: 2006/42/EC

They are manufactured in accordance with the following standard or standardized documents:  
EN60745

The technical file in accordance with 2006/42/EC is available from:

Makita, Jan-Baptist Vinkstraat 2, 3070, Belgium

18.4.2014



Yasushi Fukaya  
Director

Makita, Jan-Baptist Vinkstraat 2, 3070, Belgium