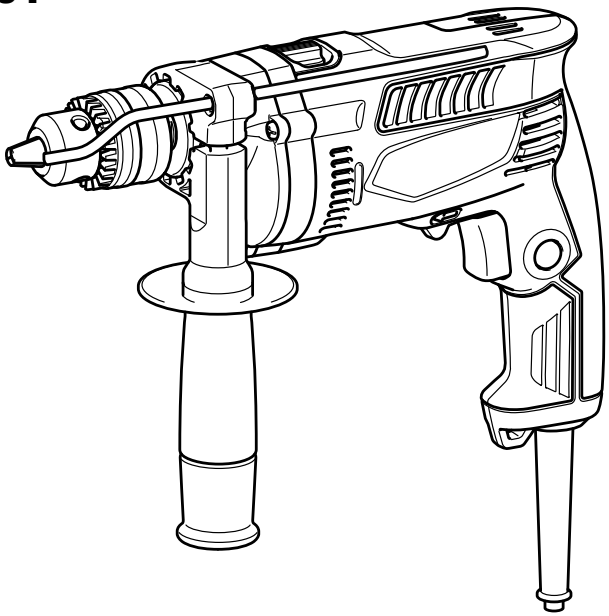
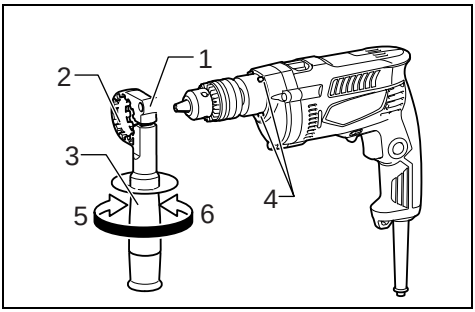
makita

M8100
M8101





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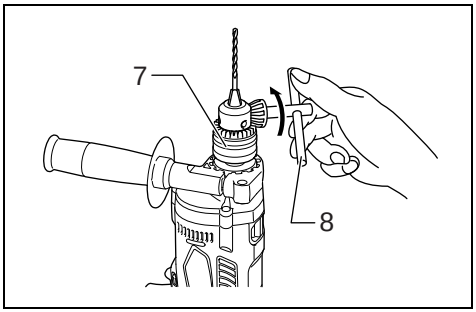

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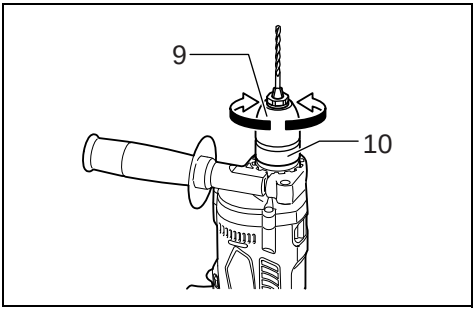

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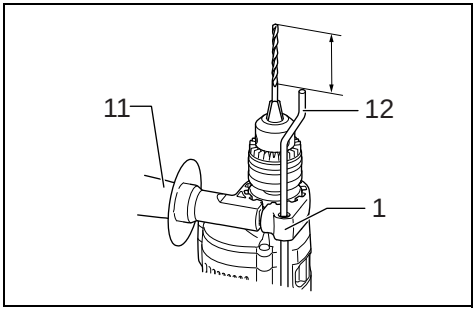

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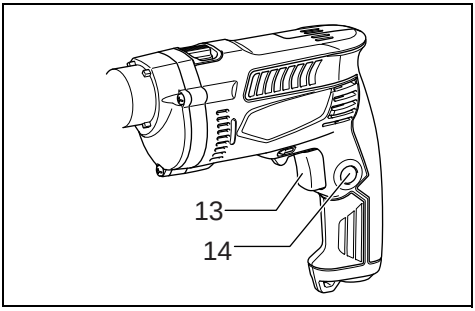

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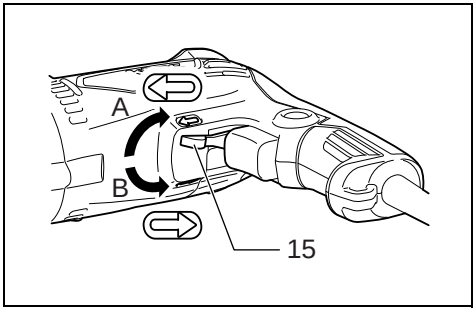

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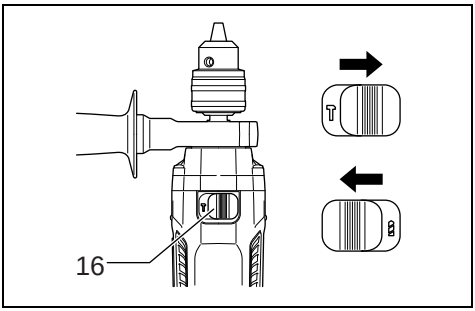

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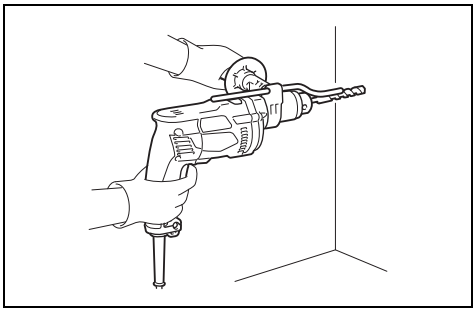

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8

ENGLISH (Original instructions)

Explanation of general view

1 Grip base
2 Teeth
3 Side grip (auxiliary handle)
4 Protrusion
5 Loosen
6 Tighten
7 Drill chuck
8 Chuck key
9 Sleeve
10 Ring
11 Side grip
12 Depth gauge
13 Switch trigger
14 Lock button
15 Reversing switch lever
16 Action mode changing lever

SPECIFICATIONS

Model		M8100	M8101
Capacities	Concrete	16 mm	
	Wood	30 mm	
	Steel	13 mm	
No load speed (min^{-1})		0 – 3,200	
Blows per minute		0 – 48,000	
Overall length		296 mm	295 mm
Net weight		2.1 kg	2.0 kg
Safety class		⧈/II	

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

ENE039-1

Intended use
The tool is intended for impact drilling in brick, concrete and stone as well as for drilling without impact in wood, metal, ceramic and plastic.

ENF002-2

Power supply
The tool should be connected only to a power supply of the same voltage as indicated on the nameplate, and can only be operated on single-phase AC supply. They are double-insulated and can, therefore, also be used from sockets without earth wire.

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.

GEB003-5

HAMMER DRILL SAFETY WARNINGS

1. **Wear ear protectors when impact drilling.** 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 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.
4. **Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.**
5. **Hold the tool firmly with both hands.**
6. **Keep hands away from rotating parts.**
7. **Do not leave the tool running. Operate the tool only when hand-held.**
8. **Do not touch the bit or the workpiece immediately after operation; they may be extremely hot and could burn your skin.**
9. **Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety data.**

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.

ASSEMBLY

Installing side grip (auxiliary handle) (Fig. 1)

⚠ **CAUTION:**
- Always be sure that the tool is switched off and unplugged before installing or removing the side grip.

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.

Installing or removing drill bit

⚠ CAUTION:
- Always be sure that the tool is switched off and unplugged before installing or removing the bit.

For Model M8100 (Fig. 2)
To install the bit, place it in the chuck as far as it will go. Tighten the chuck by hand. Place the chuck key in each of the three holes and tighten clockwise. Be sure to tighten all three chuck holes evenly. To remove the bit, turn the chuck key counterclockwise in just one hole, then loosen the chuck by hand.
After using the chuck key, be sure to return it to the original position.

For Model M8101 (Fig. 3)
Hold the ring and turn the sleeve counterclockwise to open the chuck jaws. Place the bit in the chuck as far as it will go. Hold the ring firmly and turn the sleeve clockwise to tighten the chuck.
To remove the bit, hold the ring and turn the sleeve counterclockwise.

Depth gauge (Fig. 4)
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 grip base. 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.

FUNCTIONAL DESCRIPTION

Switch action (Fig. 5)

⚠ CAUTION:
- Before plugging in 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. For continuous operation, pull the switch trigger, push in the lock button and then release the switch trigger. To stop the tool from the locked position, pull the switch trigger fully, then release it.

Reversing switch action (Fig. 6)
This tool has a reversing switch to change the direction of rotation. Move the reversing switch lever to the ⇦ position (A side) for clockwise rotation or to the ⇨ position (B side) for counterclockwise rotation.

⚠ 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.

Selecting the action mode (Fig. 7)
This tool has an action mode change lever. For rotation with hammering, slide the action mode change lever to the right (symbol). For rotation only, slide the action mode change lever to the left (symbol).

⚠ CAUTION:
- Always slide the action mode change lever all the way to your desired mode position. If you operate the tool with the lever positioned halfway between the mode symbols, the tool may be damaged.

OPERATION (Fig. 8)

Always hold the tool only by the handle when performing an operation. Do not touch the metal part.

Hammer drilling operation

⚠ CAUTION:
- There is tremendous and sudden twisting force exerted on the tool/bit at the time of hole break-through, 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 toll and potentially serve injury.

When drilling in concrete, granite, tile, etc., slide the action mode change lever to the position of symbol to use "rotation with hammering" action. Be sure to use a tungsten-carbide tipped bit. 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.
After drilling the hole, use the blow-out bulb to clean the dust out of the hole.

Drilling operation
When drilling in wood, metal or plastic materials, slide the action mode change lever to the position of symbol to use "rotation only" action.

Drilling in wood
When drilling in wood, the best results are obtained with wood drills equipped with a guide screw. The guide screw makes drilling easier by pulling the bit into the workpiece.

Drilling in metal
To prevent the bit from slipping when starting a hole, make an indentation with a center-punch and hammer at the point to be drilled. Place the point of the bit in the indentation and start drilling. Use a cutting lubricant when drilling metals. The exceptions are iron and brass which should be drilled dry.

⚠ CAUTION:
- 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 force exerted on the tool/bit at the time of hole break through. 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 unplugged before carrying out any work on the tool.
- Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.

To maintain product safety and reliability, repairs, maintenance or adjustment should be carried out by a Makita Authorized Service Center.

ENG905-1

Noise

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

Sound pressure level (L_{pA}): 98 dB (A)
Sound power level (L_{WA}): 109 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:

Work mode: impact drilling into concrete
Vibration emission ($a_{h, ID}$): 16.5 m/s^2
Uncertainty (K): 2.0 m/s^2

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

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:
Hammer Drill
Model No./ Type: M8100, M8101
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

1.12.2014

Yasushi Fukaya
Director
Makita, Jan-Baptist Vinkstraat 2, 3070, Belgium