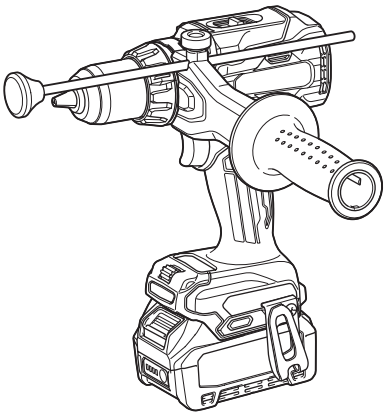
ENGLISH: Original instructions

INSTRUCTION MANUAL

Cordless Hammer Driver Drill

HP003G



Read before use.

SPECIFICATIONS

Model:		HP003G
Drilling capacities	Masonry	20 mm
	Steel	20 mm
	Wood	Auger bit: 50 mm Self-feed bit: 92 mm Hole saw: 152 mm
Fastening capacities	Wood screw	10 mm x 90 mm
	Machine screw	M6
No load speed (RPM)	High (3)	0 - 2,400 min^{-1}
	Medium (2)	0 - 1,800 min^{-1}
	Low (1)	0 - 650 min^{-1}
Blows per minute	High (3)	0 - 36,000 min^{-1}
	Medium (2)	0 - 27,000 min^{-1}
	Low (1)	0 - 9,750 min^{-1}
Overall length		197 mm
Rated voltage		D.C. 36 V - 40 V max
Net weight		2.8 - 4.0 kg

- 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.
- The net weight value includes the lightest and heaviest combination of the attachment(s) and battery cartridge(s) which are specified in the instruction manual.

Applicable battery cartridge and charger

Battery cartridge	BL4020 / BL4025 / BL4040 / BL4040F* / BL4050F* / BL4080F * : Recommended battery
Charger	DC40RA / DC40RB / DC40RC / DC40WA / BCC01 / BCC02

- Some of the battery cartridges and chargers listed above may not be available depending on your region of residence.

⚠***WARNING:*** **Only use the battery cartridges and chargers listed above.** Use of any other battery cartridges and chargers may cause injury and/or fire.

Symbols

The followings show the symbols which may be used for the equipment. Be sure that you understand their meaning before use.

Read instruction manual.

Only for EU countries
Due to the presence of hazardous components in the equipment, waste electrical and electronic equipment, accumulators and batteries may have a negative impact on the environment and human health.
Do not dispose of electrical and electronic appliances or batteries with household waste!
In accordance with the European Directive on waste electrical and electronic equipment and on accumulators and batteries and waste accumulators and batteries, as well as their adaptation to national law, waste electrical equipment, batteries and accumulators should be stored separately and delivered to a separate collection point for municipal waste, operating in accordance with the regulations on environmental protection.
This is indicated by the symbol of the crossed-out wheeled bin placed on the equipment.

Intended use

The tool is intended for impact drilling in brick, brickwork and masonry. It is also suitable for screw driving and drilling without impact in wood, metal, ceramic and plastic.

Noise

The typical A-weighted noise level determined according to EN62841-2-1:
Sound pressure level (L_{pA}) : 88 dB (A)
Sound power level (L_{WA}) : 96 dB (A)
Uncertainty (K) : 3 dB (A)

NOTE: The declared noise emission value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared noise emission value(s) can also be used in a preliminary assessment of exposure.

⚠***WARNING:*** **Wear ear protection.**

⚠***WARNING:*** **The noise emission during actual use of the power tool can differ from the declared total value(s) depending on the ways in which the tool is used.**

⚠***WARNING:*** **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).**

Vibration

The continuous vibration total value (tri-axial vector sum) determined according to EN62841-2-1:
Work mode: impact drilling into concrete
Vibration emission ($a_{h,ID}$) : 6.8 m/s^2
Uncertainty (K) : 1.5 m/s^2
Work mode: drilling into metal
Vibration emission ($a_{h,D}$) : 2.5 m/s^2 or less
Uncertainty (K) : 1.5 m/s^2

NOTE: The declared vibration total value(s) has been measured in accordance with a standard test method and may be used for comparing one tool with another.

NOTE: The declared vibration total value(s) can 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 total value(s) depending on the ways in which the tool is used.**

⚠***WARNING:*** **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).**

Declarations of Conformity

For European countries only

The Declarations of conformity are included in Annex A to this instruction manual.

SAFETY WARNINGS

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.

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.

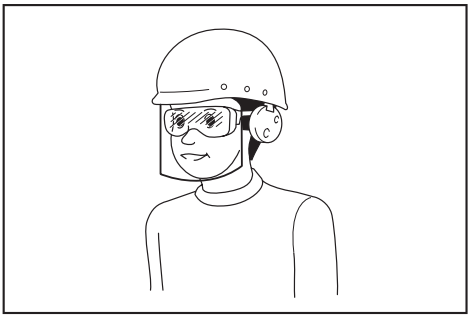
Electrical safety

1. **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.
2. **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.
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 residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
7. **Power tools can produce electromagnetic fields (EMF) that are not harmful to the user.** However, users of pacemakers and other similar

medical devices should contact the maker of their device and/or doctor for advice before operating this power tool.

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.** Protective equipment such as a 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 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.
4. **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.
5. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
6. **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.
7. **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.
8. **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.
9. **Always wear protective goggles to protect your eyes from injury when using power tools. The goggles must comply with ANSI Z87.1 in the USA, EN 166 in Europe, or AS/NZS 1336 in Australia/New Zealand. In Australia/New Zealand, it is legally required to wear a face shield to protect your face, too.**



It is an employer's responsibility to enforce the use of appropriate safety protective equipments by the tool operators and by other persons in the immediate working area.

Power tool use and care

1. **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 switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **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.
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 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.
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.
8. **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.
9. **When using the tool, do not wear cloth work gloves which may be entangled.** The entanglement of cloth work gloves in the moving parts may result in personal injury.

Battery tool use and care

1. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
2. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
3. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
4. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If**

liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

5. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
6. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C may cause explosion.
7. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

Service

1. **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.
2. **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.
3. **Follow instruction for lubricating and changing accessories.**

Cordless hammer driver drill safety warnings

Safety instructions for all operations

1. **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
2. **Use the auxiliary handle(s).** Loss of control can cause personal injury.
3. **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring.** Cutting accessory or fasteners 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.**
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 drill 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.**
10. **If the drill bit cannot be loosened even you open the jaws, use pliers to pull it out.** In such a case, pulling out the drill bit by hand may result in injury by its sharp edge.
11. **Make sure there are no electrical cables, water pipes, gas pipes etc. that could cause a hazard if damaged by use of the tool.**

Safety instructions when using long drill bits

1. **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.
2. **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.
3. **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.

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.

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 or tamper with the battery cartridge.** It may result in a fire, excessive heat, or explosion.
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 and use 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.**
8. **Do not nail, cut, crush, throw, drop the battery cartridge, or hit against a hard object to the battery cartridge.** Such conduct may result in a fire, excessive heat, or explosion.

9. **Do not use a damaged battery.**
10. **The contained lithium-ion batteries are subject to the Dangerous Goods Legislation requirements.**
    For commercial transports e.g. by third parties, forwarding agents, special requirement on packaging and labeling must be observed.
    For preparation of the item being shipped, consulting an expert for hazardous material is required.
    Please also observe possibly more detailed national regulations.
    Tape or mask off open contacts and pack up the battery in such a manner that it cannot move around in the packaging.
11. **When disposing the battery cartridge, remove it from the tool and dispose of it in a safe place. Follow your local regulations relating to disposal of battery.**
12. **Use the batteries only with the products specified by Makita.** Installing the batteries to non-compliant products may result in a fire, excessive heat, explosion, or leak of electrolyte.
13. **If the tool is not used for a long period of time, the battery must be removed from the tool.**
14. **During and after use, the battery cartridge may take on heat which can cause burns or low temperature burns. Pay attention to the handling of hot battery cartridges.**
15. **Do not touch the terminal of the tool immediately after use as it may get hot enough to cause burns.**
16. **Do not allow chips, dust, or soil stuck into the terminals, holes, and grooves of the battery cartridge.** It may cause heating, catching fire, burst and malfunction of the tool or battery cartridge, resulting in burns or personal injury.
17. **Unless the tool supports the use near high-voltage electrical power lines, do not use the battery cartridge near high-voltage electrical power lines.** It may result in a malfunction or breakdown of the tool or battery cartridge.
18. **Keep the battery away from children.**

SAVE THESE INSTRUCTIONS.

⚠*CAUTION:* Only use genuine Makita batteries. Use of non-genuine Makita batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury and damage. It will also void the Makita warranty for the Makita tool and charger.

NOTICE: Makita is not responsible for any accidents resulting from the use of non-genuine Makita batteries or batteries that have been modified. Genuine Makita batteries have been rigorously evaluated for compatibility with Makita tools and chargers, in line with applicable legislation and safety standards.

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. **When not using the battery cartridge, remove it from the tool or the charger.**
5. **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

⚠*CAUTION:* Always switch off the tool before installing or removing of the battery cartridge.

⚠*CAUTION:* 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 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 as shown in the figure, it is not locked completely.

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

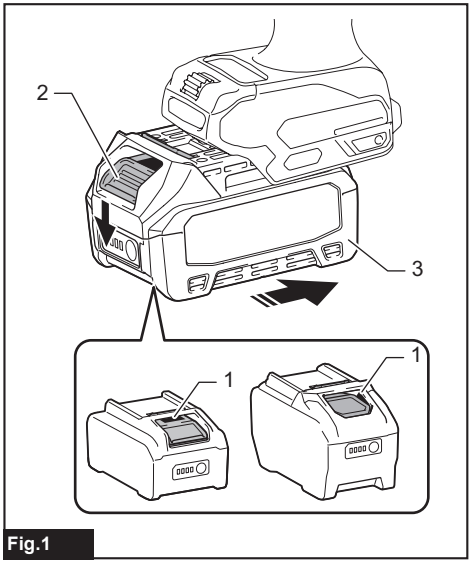


Fig.1

► **1.** Red indicator **2.** Button **3.** Battery cartridge

⚠*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.

⚠*CAUTION:* Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Indicating the remaining battery capacity

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

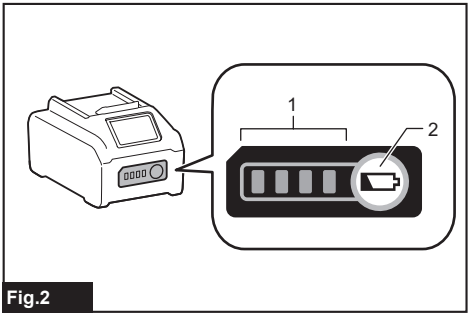


Fig.2

► **1.** Indicator lamps **2.** Check button

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.

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

NOTE: The first (far left) indicator lamp will blink when the battery protection system works.

Tool / battery protection system

The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

Overload protection

When the tool is operated in a manner that causes it to draw an abnormally high current, the tool stops automatically. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

Overheat protection

When the tool is overheated, the tool stops automatically and the lamp blinks. In this situation, let the tool/battery cool before turning the tool on again.

Overdischarge protection

When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.

Protections against other causes

The protection system is also designed for other causes that could damage the tool and allows the tool to stop automatically. Take all the following steps to clear the causes when the tool has been brought to a temporary halt or stop in operation.

1. Turn the tool off, and then turn it on again to restart.
2. Charge the battery(ies) or replace it/them with recharged battery(ies).
3. Let the tool and battery(ies) cool down.

If no improvement can be found by restoring the protection system, then contact your local Makita Service Center.

Electric brake

This tool is equipped with an electric brake. If the tool consistently fails to quickly stop after the switch trigger is released, have the tool serviced at a Makita service center.

Switch action

⚠*CAUTION:* Before installing 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.

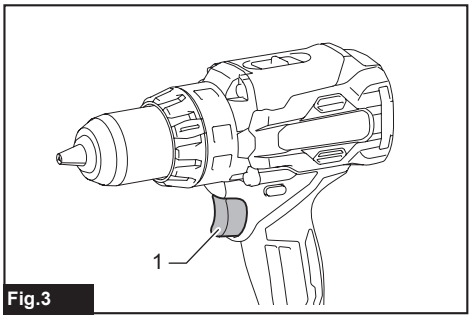


Fig.3

► **1.** Switch trigger

NOTE: The tool automatically stops if you keep pulling the switch trigger for about 6 minutes.

Lighting up the front lamp

⚠*CAUTION:* Do not look into the light or look directly at the light source.

Pull the switch trigger to light up the front lamp. The front lamp keeps on lighting while the switch trigger is being pulled. The front lamp goes out approximately 10 seconds after releasing the switch trigger.

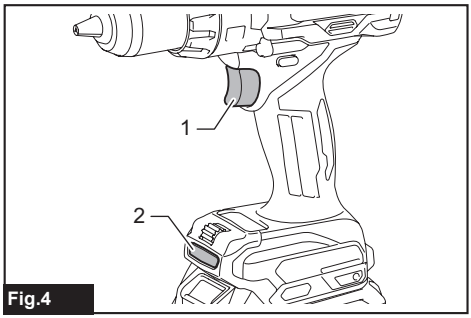


Fig.4

► **1.** Switch trigger **2.** Front lamp

Light mode

Long-press the button to activate light mode.
In light mode, the front lamp remains lit for 1 hour.
The front lamp automatically turns off after 1 hour. To turn the front lamp manually, press and hold the button.

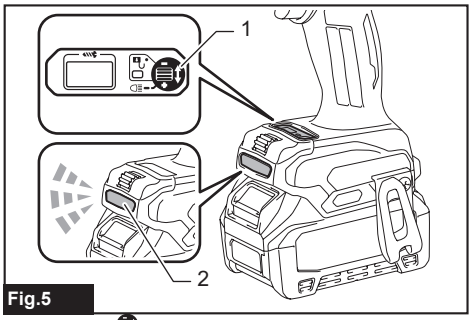


Fig.5

► **1.** Button **2.** Front lamp

NOTE: When the tool is overheated, the tool stops automatically and the front lamp starts flashing. In this case, release the switch trigger. The front lamp turns off in one minute.

NOTE: Use a dry cloth to wipe the dirt off the lens of the front lamp. Be careful not to scratch the lens of the front lamp, or it may lower the illumination.

NOTE: The front lamp is brighter in light mode than during normal operation.

Reversing switch action

⚠*CAUTION:* Always check the direction of rotation before operation.

⚠*CAUTION:* 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.

⚠*CAUTION:* When not operating the tool, always set the reversing switch lever to the neutral position.

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.

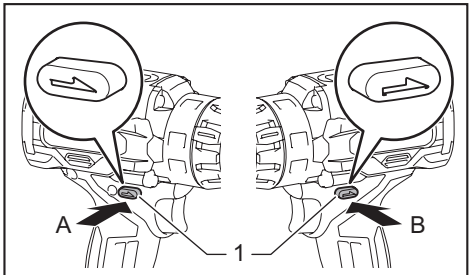


Fig.6

► **1.** Reversing switch lever

Speed change

⚠*CAUTION:* Always set the speed change lever fully to the correct position. If you operate the tool with the speed change lever positioned in between "1" and "2" or "2" and "3", the tool may be damaged.

⚠*CAUTION:* Do not use the speed change lever while the tool is running. The tool may be damaged.

This tool has a speed change lever. To change the speed, first switch off the tool and then slide the speed change lever to the "1" position for low speed, "2" position for medium speed or "3" position for high speed. Be sure that the speed change lever is set to the correct position before operation. Select the appropriate speed for your application.
If the tool speed decreases significantly during operation at high or medium speed, switch the speed change lever one speed lower and restart the operation.

Displayed Number	Speed	Torque	Applicable operation
1	Low	High	Heavy loading operation
2	Medium	Medium	Medium loading operation
3	High	Low	Light loading operation

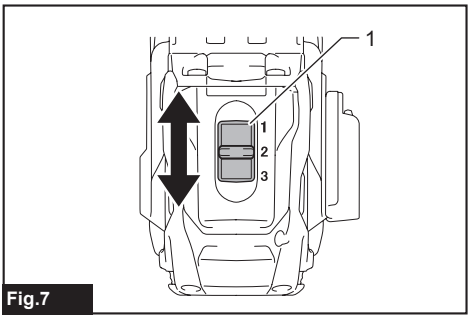


Fig.7

► **1.** Speed change lever

NOTE: If the speed change lever is difficult to slide, return the speed change lever to its previous position, briefly pull the switch trigger, and then slide the speed change lever again.

Selecting the action mode

NOTICE: Always set the ring correctly to your desired mode mark. If you operate the tool with the ring positioned halfway between the mode marks, the tool may be damaged.

NOTICE: Do not change the action mode while rotating.

This tool has three action modes.

- Drilling mode (rotation only)
- Hammer drilling mode (rotation with hammering)
- Screwdriving mode (rotation with clutch)

Select one mode suitable for your work. Turn the action mode changing ring and align the mark that you selected with the arrow on the tool body.

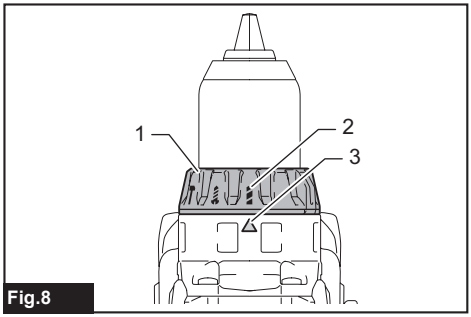


Fig.8

► **1.** Action mode changing ring **2.** Mark **3.** Arrow

Adjusting the fastening torque

CAUTION: Make sure that the dial is clean. Depending on the work environment, foreign objects such as iron scraps or chips may adhere to the dial and cause the personal injury.

The fastening torque can be adjusted in 41 levels in low speed, 30 levels in medium speed, and 25 levels in high speed.

1. Align the marking with the arrow on the tool body by turning the action mode changing ring.

2. Pull the switch trigger and release it (or push the button) to turn on the indicator.

3. Push the button, and the green light blinks.

4. Turn the dial, and adjust the torque level while the green light is blinking.

5. Push the button to set the value.

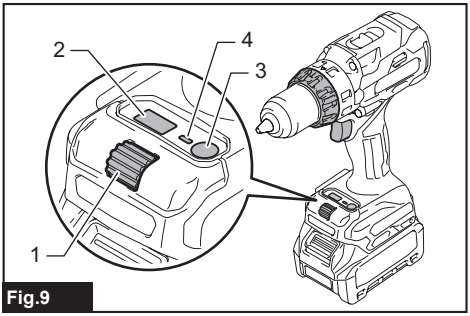


Fig.9

► **1.** Dial **2.** Indicator **3.** Button **4.** Green light

To obtain a suitable torque level, perform a test drive with a workpiece of the same material that you are going to screw.

The following shows a rough guide of the relationship between the screw size and graduation.

Low speed

Torque level		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
Machine screw		M4	M5	M6		–																
Wood screw	Soft wood (e.g. pine)	ø3.5 x 22		ø4.1 x 38		–		ø5.1 x 50			–				ø6.2 x 63			–				
	Hard wood (e.g. lauan)	–	ø3.5 x 22		ø4.1 x 38		–		ø5.1 x 50			–				ø6.2 x 63			–			

Torque level		**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**	**31**	**32**	**33**	**34**	**35**	**36**	**37**	**38**	**39**	**40**	**41**
Machine screw		–																			
Wood screw	Soft wood (e.g. pine)	–						ø9 x 75			–				ø10 x 90			–			
	Hard wood (e.g. lauan)	–									ø9 x 75			–				ø10 x 90			–

Medium speed

Torque level		**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**
Machine screw		M4	M5	M6		–																
Wood screw	Soft wood (e.g. pine)	ø3.5 x 22		ø4.1 x 38		–		ø5.1 x 50			–				ø6.2 x 63			–				
	Hard wood (e.g. lauan)	–	ø3.5 x 22		ø4.1 x 38		–		ø5.1 x 50			–				ø6.2 x 63			–			

Torque level		**22**	**23**	**24**	**25**	**26**	**27**	**28**	**29**	**30**
Machine screw		–								
Wood screw	Soft wood (e.g. pine)	–						ø9 x 75		
	Hard wood (e.g. lauan)	–								

High speed

Torque level		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Machine screw		M4	M5	M6		–																
Wood screw	Soft wood (e.g. pine)	ø3.5 x 22		ø4.1 x 38			–	ø5.1 x 50			–				ø6.2 x 63			–				
	Hard wood (e.g. lauan)	–	ø3.5 x 22		ø4.1 x 38		–	ø5.1 x 50				–					ø6.2 x 63			–		

Torque level		22	23	24	25
Machine screw		–			
Wood screw	Soft wood (e.g. pine)	–			
	Hard wood (e.g. lauan)	–			

NOTE: After pushing the button in step 5, the green light turns off. If you adjust the torque level again, start over from step 3.

NOTE: If you leave the green light blinking for a while, it stops blinking and the value displayed in the indicator will be set.

NOTE: You can set the fastening torque level in three patterns; high speed, medium speed, and low speed.

When the lever displays "1", the torque level in low speed can be set. When the lever displays "2", the torque level in medium speed can be set. When the lever displays "3", the torque level in high speed can be set.

When you change the speed with the speed change lever, the indicator blinks three times. After that, drive a trial screw to check the speed and torque level.

NOTE: If you pull the switch trigger while the green light is blinking, the green light turns off and you will not be able to adjust the torque level. To adjust the torque level again, release the switch trigger and turn the dial while the green light is blinking.

NOTE: If you turn the action mode changing ring while the green light is blinking, the green light turns off and you will not be able to adjust the torque level. To adjust the torque level again, start over from step 1.

Electronic function

The tool is equipped with the electronic functions for easy operation.

- Active Feedback sensing Technology
  If the tool is swung at the predetermined acceleration during operation, the motor is forcibly stopped to reduce the burden on the wrist.

NOTICE: Hold the tool firmly while operating.

NOTICE: If any malfunction occurred with the electronic function, the light blinks for 3 seconds, and then turns off. In that case, contact with Makita Authorized or Factory Service Centers to repair.

NOTE: This function does not work if the acceleration does not reach the predetermined one when the tool is swung.

NOTE: If the tool is forcibly stopped, release the switch trigger, and then pull the switch trigger to restart the tool.

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.**

Installing or removing driver bit/ drill bit

Optional accessory

Turn the sleeve counterclockwise to open the chuck jaws. Place the driver bit/drill bit in the chuck as far as it will go. Turn the sleeve clockwise to tighten the chuck. To remove the driver bit/drill bit, turn the sleeve counterclockwise.

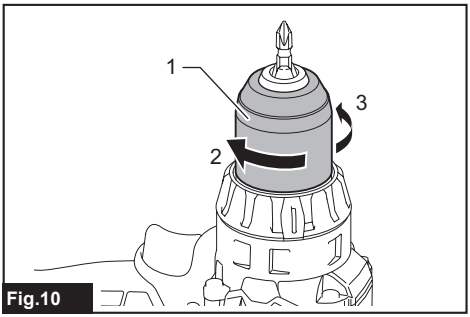


Fig.10

► **1.** Sleeve **2.** Close **3.** Open

Installing side grip (auxiliary handle)

Always use the side grip to ensure operating safety. Attach the side grip so that the protrusions on the grip base and steel band fit in the grooves on the tool barrel. Then tighten the grip by turning clockwise.
Depending on the operations, you can attach the side grip upward or right/left side of the tool.

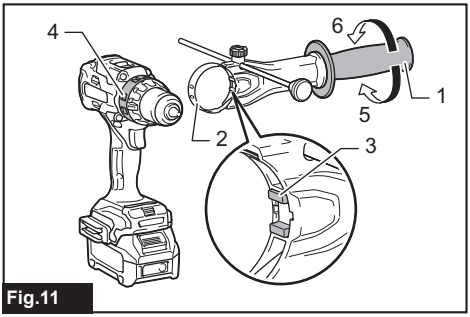


Fig.11

► **1.** Side grip **2.** Steel band **3.** Protrusion **4.** Groove **5.** Open **6.** Close

Adjustable depth rod

The adjustable depth rod is used to drill holes of uniform depth. Loosen the clamp screw, set the depth rod to desired position, then tighten the clamp screw.

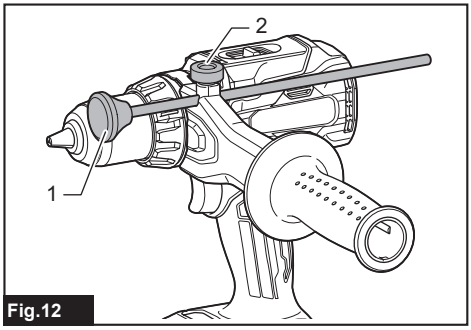


Fig.12

► **1.** Depth rod **2.** Clamp screw

Installing hook

⚠***WARNING:*** **Use the hanging/mounting parts for their intended purposes only, e.g., hanging the tool on a tool belt between jobs or work intervals.**

⚠***WARNING:*** **Be careful not to overload the hook as too much force or irregular overburden may cause damage to the tool resulting in personal injury.**

⚠***CAUTION:*** **When installing the hook, always secure it with the screw firmly.** If not secured firmly, the hook may come off from the tool and result in the personal injury.

⚠***CAUTION:*** **Make sure to hang the tool securely before releasing your hold.** Insufficient or unbalanced hooking may cause falling off and you may be injured.

The hook is convenient for temporarily hanging the tool. This can be installed on either side of the tool. To install the hook, insert it into a groove in the tool housing on either side and then secure it with a screw. To remove, loosen the screw and then take it out.

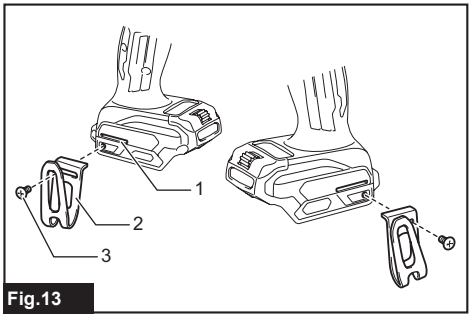


Fig.13

► **1.** Groove **2.** Hook **3.** Screw

Using hole

⚠***WARNING:*** **Never use the hanging hole for a purpose other than its intended purpose; for instance, tethering the tool at high location.** Bearing stress in a heavily loaded hole may cause damage to the hole, resulting in injuries to you or people around or below you.

Use the hanging hole at the bottom rear of the tool to hang the tool on a wall using a hanging cord or similar strings.

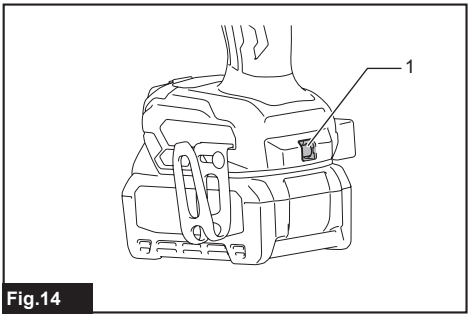


Fig.14

► **1.** Hanging hole

Installing driver bit holder

Optional accessory

Fit the driver bit holder into the protrusion at the tool foot on either right or left side and secure it with a screw. When not using the driver bit, keep it in the driver bit holders. Driver bits 45 mm-long (1-3/4") can be kept there.

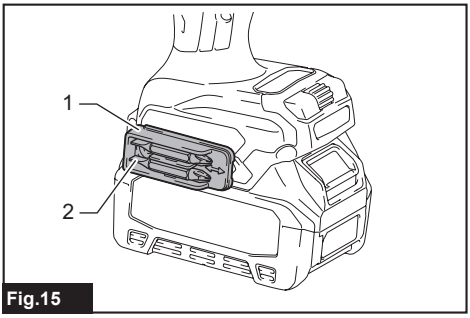


Fig.15

► **1.** Driver bit holder **2.** Driver bit

OPERATION

⚠***CAUTION:*** **Switch off the tool immediately if the tool malfunctions, foreign matter enters the tool, or abnormal noises are heard.** Contact Makita service center or your local dealer to have the tool serviced or repaired.

Hold the tool firmly with one hand on the grip and the other hand on the handle to control the twisting action.

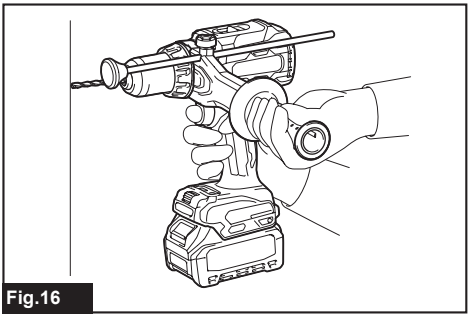


Fig.16

NOTICE: When the speed slows down extremely, reduce the load or stop the tool to avoid the tool damage.

NOTICE: Do not cover vents, or it may cause over-heating and damage to the tool.

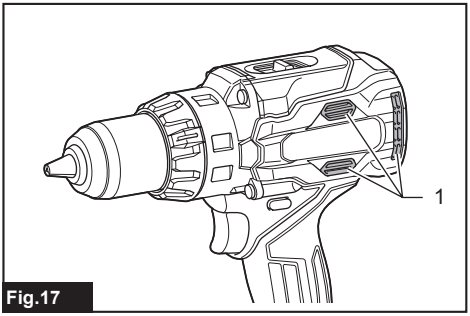


Fig.17

► **1.** Vent

Screwdriving operation

NOTICE: Adjust the dial to the proper torque level for your work.

NOTICE: Make sure that the driver bit is inserted straight in the screw head, or the screw and/or driver bit may be damaged.

First, turn the action mode changing ring so that the arrow on the tool body points to the marking, and adjust the torque level.
Place the point of the driver bit in the screw head and apply pressure to the tool. Start the tool slowly and then increase the speed gradually. Release the switch trigger as soon as the tool stops the rotation automatically and the green light turns on for 5 seconds.

NOTE: When driving a wood screw, pre-drill a pilot hole 2/3 the diameter of the screw. It makes driving easier and prevents splitting of the workpiece.

NOTE: In a cold environment, the tool may stop at lower torque level depending on circumstances.

Hammer drilling operation

⚠*CAUTION:* There is a tremendous and sudden twisting force exerted on the tool/drill 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.

First, turn the action mode changing ring so that the arrow on the tool body points to the marking.
Be sure to use a tungsten-carbide tipped drill bit.
Position the drill 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 drill bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

Blow-out bulb

Optional accessory

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

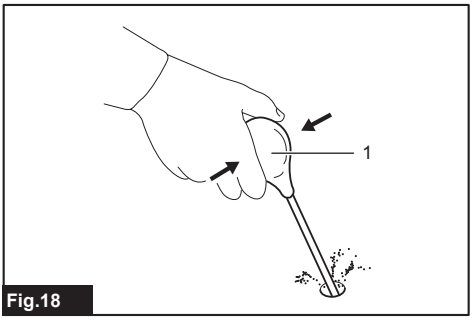


Fig.18

► **1.** Blow-out bulb

Drilling operation

First, turn the action mode changing ring so that the arrow points to the marking. Then proceed as follows.

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 drill bit into the workpiece.

Drilling in metal

To prevent the drill 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 drill bit in the indentation and start drilling.
Use a cutting lubricant when drilling metals. Some iron and brass which should be drilled dry are exceptions.

⚠*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 drill bit, decrease the tool performance and shorten the service life of the tool.

⚠*CAUTION:* Hold the tool firmly and exert care when the drill bit begins to break through the workpiece. There is a tremendous force exerted on the tool/drill bit at the time of hole break through.

⚠*CAUTION:* A stuck drill 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.

⚠*CAUTION:* Always secure workpieces in a vise or similar hold-down device.

⚠*CAUTION:* If the tool is operated continuously until the battery cartridge has discharged, allow the tool to rest for 15 minutes before proceeding with a fresh battery.

MAINTENANCE

⚠*CAUTION:* Always be sure that the tool is switched off and the battery cartridge is removed before attempting to perform inspection or maintenance.

***NOTICE:* Never use gasoline, benzine, thinner, alcohol or the like. Discoloration, deformation or cracks may result.**

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory 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 an accessory or attachment for its stated purpose.

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

- Drill bits
- Driver bits
- Tungsten-carbide tipped drill bit
- Blow-out bulb
- Driver bit holder
- Hook
- 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.

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