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BLACK+
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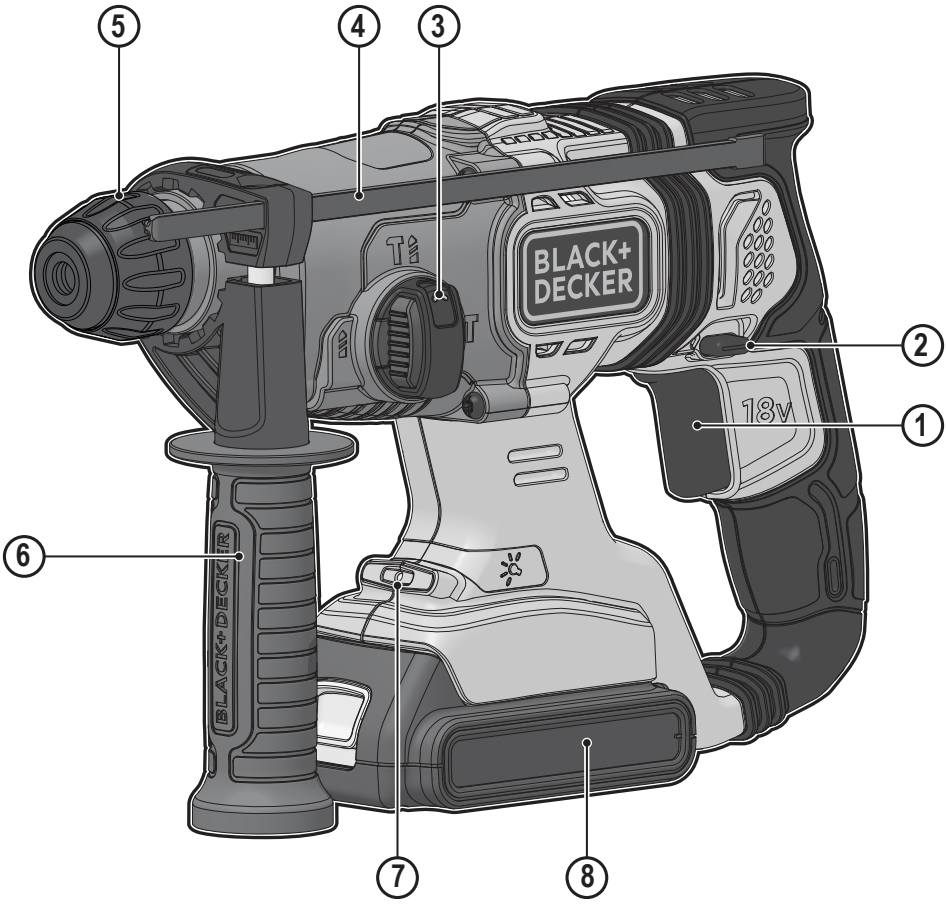
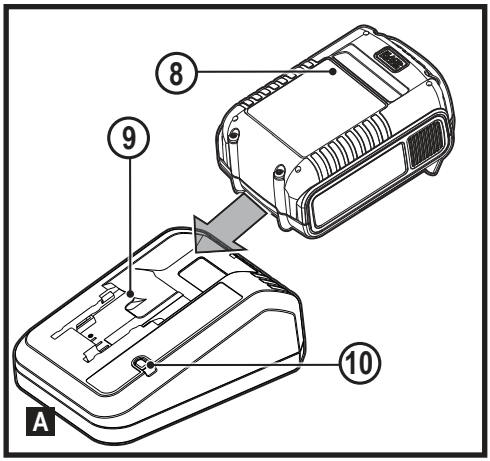


www.blackanddecker.co.uk

BCD900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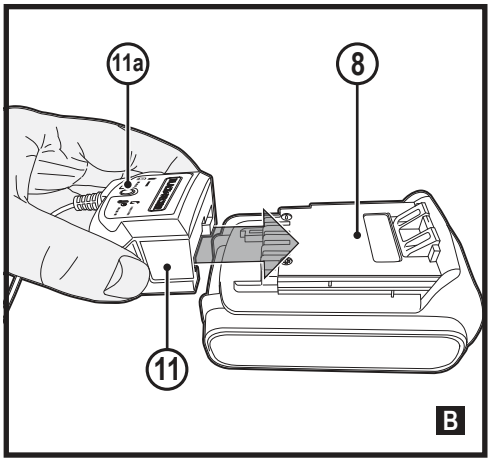
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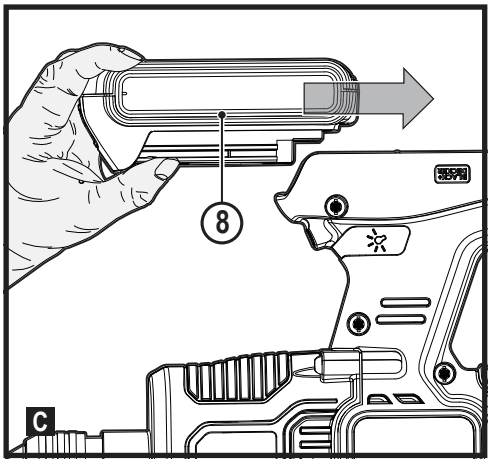
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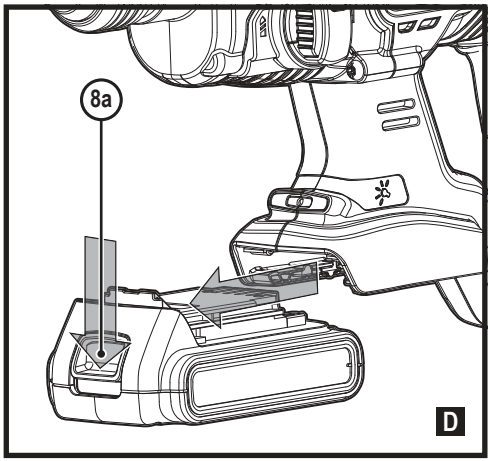
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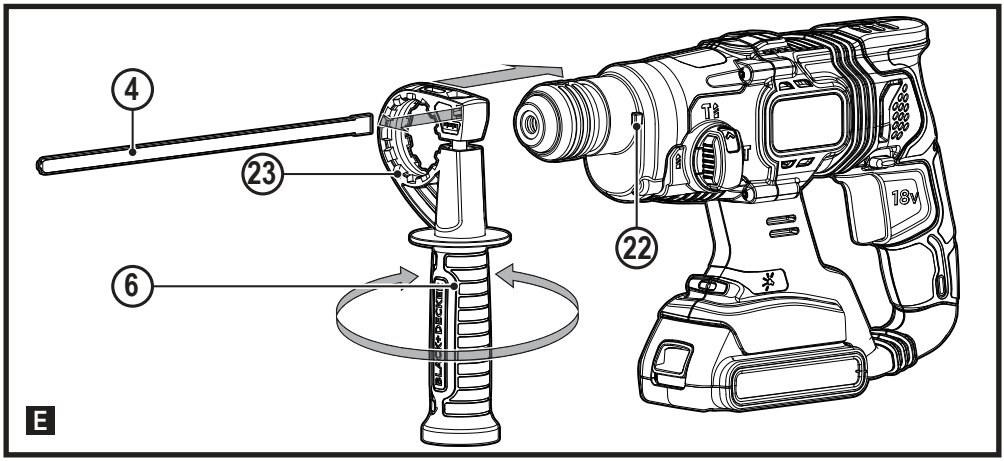
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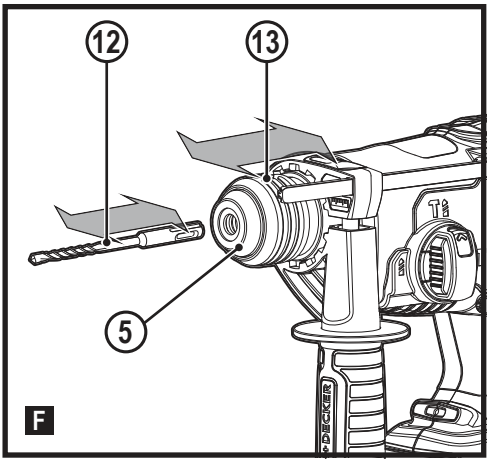
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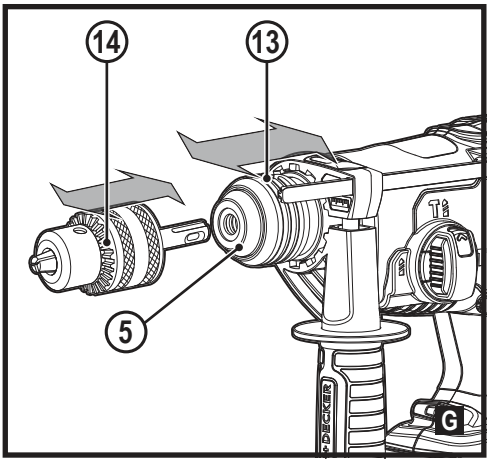
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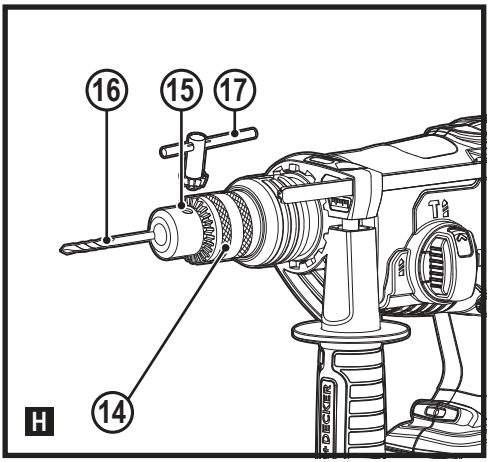
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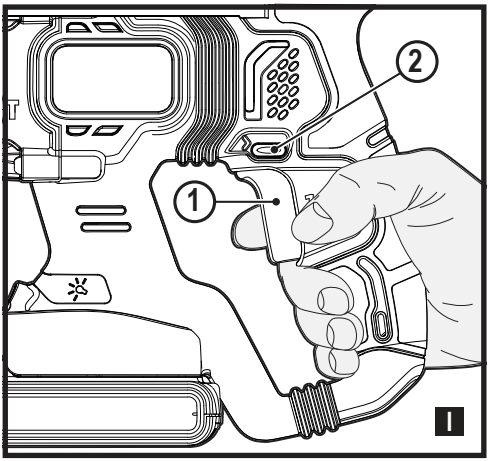
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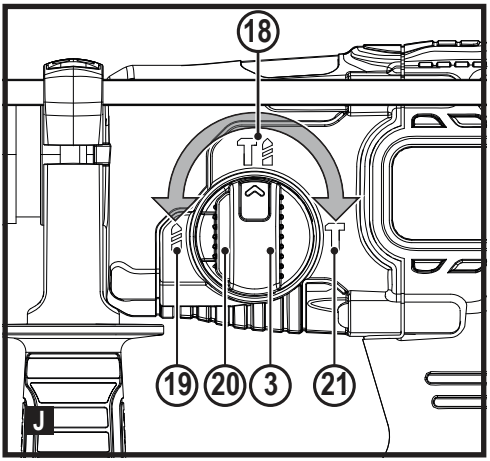
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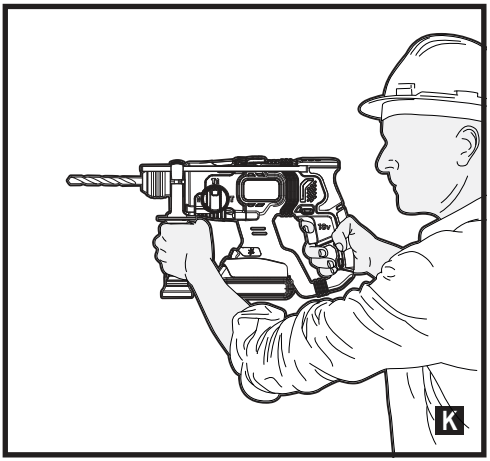
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Intended use

Your BLACK+DECKER BCD900 rotary hammer has been designed for drilling in wood, metal, plastics, and masonry as well as for screwdriving and light chiselling applications. This tool is intended for consumer use only.

Safety instructions

General power tool safety warnings

Warning! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow the warnings and 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 all of the warnings listed below 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 dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.

f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.

g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

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 the battery pack from the power tool before making any**

adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d. **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.

e. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools 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. **Battery tool use and care**

a. **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.

b. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

c. **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.

d. **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.

6. **Service**

a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional power tool safety warnings

Warning! Additional safety warnings for rotary and chiselling hammers

- **Wear ear protectors.** Exposure to noise can cause hearing loss.
- **Use auxiliary handles supplied with the tool.** Loss of control can cause personal injury.
- **Hold power tool 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.
- **Never use a chisel accessory in rotary mode.** The accessory will bind in the material and rotate the drill.
- **Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
- Before drilling into walls, floors or ceilings, check for the location of wiring and pipes.
- Avoid touching the tip of a drill bit just after drilling, as it may be hot.
- The intended use is described in this instruction manual. The use of any accessory or attachment or performance of any operation with this tool other than those recommended in this instruction manual may present a risk of personal injury and/or damage to property.
- Use a face or dust mask whenever the operations may produce dust or flying particles.

Safety of others

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.

Residual risks.

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.
Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided. These include:

- Injuries caused by touching any rotating/moving parts.
- Injuries caused when changing any parts, blades or accessories.

- Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- Impairment of hearing.
- Health hazards caused by breathing dust developed when using your tool (example:- working with wood, especially oak, beech and MDF.)

Vibration

The declared vibration emission values stated in the technical data and the declaration of conformity have been measured in accordance with a standard test method provided by EN 60745 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 value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used. The vibration level may increase above the level stated.

When assessing vibration exposure to determine safety measures, an estimation of vibration exposure should consider, the actual conditions of use and the way the tool is used, including 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.

Labels on tool

The following pictograms are shown on the tool along with the date code:

Warning! To reduce the risk of injury, the user must read the instruction manual.

Wear ear protectors with rotary hammer drills. Exposure to noise can cause hearing loss

Do not stare at operating lamp

Additional safety instructions for batteries and chargers.

Batteries

- Never attempt to open for any reason.
- Do not expose the battery to water.
- Do not store in locations where the temperature may exceed 40 °C.
- Charge only at ambient temperatures between 10 °C and 40 °C.
- Charge only using the charger provided with the tool.
- When disposing of batteries, follow the instructions given in the section "Protecting the environment".

Do not attempt to charge damaged batteries.

Chargers

- Use your BLACK+DECKER charger only to charge the battery in the tool with which it was supplied. Other batteries could burst, causing personal injury and damage.
- Never attempt to charge non-rechargeable batteries.
- Have defective cords replaced immediately.
- Do not expose the charger to water.
- Do not open the charger.
- Do not probe the charger.

The charger is intended for indoor use only.

Read the instruction manual before use.

Electrical safety

Your charger is double insulated; therefore no earth wire is required. Always check that the mains voltage corresponds to the voltage on the rating plate. Never attempt to replace the charger unit with a regular mains plug.

- If the supply cord is damaged, it must be replaced by the manufacturer or an authorised BLACK+DECKER service centre in order to avoid a hazard

Features

This tool includes some or all of the following features.

1. On/Off switch
2. Forward/reverse selector
3. Drilling mode selector
4. Depth stop
5. Tool holder
6. Side handle
7. Led work light
8. Battery

Assembly

Use

Warning! Let the tool work at its own pace. Do not overload.

- Charge battery fully before first use.

Note: If unit cuts off suddenly in use, remove battery pack and place on charge to fully charge.

Note: If unit will not restart after heavy use, allow tool and battery pack to cool down before resuming work.

Charging the battery (fig. A, B)

The battery needs to be charged before first use and whenever it fails to produce sufficient power on jobs that were easily done before. The battery may become warm while charging; this is normal and does not indicate a problem.
Warning! Do not charge the battery at ambient temperatures below 10 °C or above 40 °C. Recommended charging temperature: approx. 24 °C.
Note: The charger will not charge a battery if the cell temperature is below approximately 10 °C or above 40 °C. The battery should be left in the charger and the charger will begin to charge automatically when the cell temperature warms up or cools down.

- To charge the battery, insert the Battery (8) into the desk charger (9) or the cup charger (11) depending on your model. The battery will only fit into the charger one way.
- Plug the desk charger (9) or the cup charger (11) into a suitable power source and switch on.
- Charge discharged batteries within 1 week. Battery life will be greatly diminished if stored in a discharged state.

Fitting and removing the battery (fig. C, D)

- To fit the battery, line it up with the receptacle on the tool. Slide the battery into the receptacle and push until the battery snaps into place.
- To remove the battery, push the release button (8a) and remove the battery from the receptacle.

Fitting the side handle and depth stop (fig. E)

- Turn the grip clockwise until you can slide the side handle (6) onto the front of the tool as shown.
- Rotate the side handle into the desired position.
- Insert the depth stop (4) into the mounting hole as shown.
- Set the depth stop to the desired position. The maximum drilling depth is equal to the distance between the tip of the drill bit and the front end of the depth stop.
- Ensure handle detents (23) are locked onto the ribs on the housing (22).
- Tighten the side handle by turning the grip counterclockwise.

Fitting an accessory (fig. F - G)

- Clean and grease the shank (12) of the accessory.
- Insert the shank into the tool holder (5).
- Push the accessory down and turn it slightly until it fits into the slots.
- Pull on the accessory to check if it is properly locked. The hammering function requires the accessory to be able to move axially several centimetres when locked in the tool holder.
- To remove the accessory, pull back the sleeve (13) and pull out the accessory.

Keyed chuck (fig. H)

- Open the chuck by turning the sleeve (14) anti-clockwise.
- Insert the bit shaft (16) into the chuck.
- Insert the chuck key (17) into the hole (15) in the side of the chuck and turn clockwise until tight.

Warning! Before drilling into walls, floors or ceilings, check for the location of wiring and pipes.
Warning! Do not apply chisels when the tool is in the drilling mode.

Forward/reverse action (fig. I)

- Move the selector (2) to indicate the direction you require.

Switching on and off (fig. I)

- To switch the tool on, press the variable speed switch (1). The tool speed depends on how far you press the switch.
- As a general rule, use low speeds for large diameter drill bits and high speeds for smaller diameter drill bits.
- To switch the tool off, release the variable speed switch.

Selecting the operating mode (fig. J)

The tool can be used in three operating modes.

- To operate the operating mode selector (3), push the unlock button (20) and rotate the selector towards the required position, as indicated by the symbols.

Drilling

- For drilling in steel, wood and plastics, and for screwdriving set the operating mode selector (3) to the position (19).

Hammer drilling

- For hammer drilling in masonry and concrete, set the operating mode selector (3) to the position (18). When hammering, the tool should not bounce and run smoothly. If necessary, increase the speed.

Hammering

- For hammering with spindle lock, and for light chiselling and chipping, set the operating mode selector (3) to the position (21).
- When changing from hammer drilling to chiselling, turn the chisel to the desired position. If resistance is felt during mode change, slightly turn the chisel to engage the spindle lock.

Accessories

The performance of your tool depends on the accessory used. Stanley BLACK+DECKER accessories are engineered to high quality standards and designed to enhance the performance of your tool. By using these accessories you will get the very best from your tool.

Maintenance

Your BLACK+DECKER corded/cordless appliance/tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.

Warning! Before performing any maintenance on corded/cordless power tools:

- Switch off and unplug the appliance/tool.
- Regularly clean the ventilation slots in your appliance/tool/charger using a soft brush or dry cloth.
- Regularly clean the motor housing using a damp cloth. Do not use any abrasive or solvent-based cleaner.
- Regularly open the chuck and tap it to remove any dust from the interior (when fitted).

Mains plug replacement (U.K. & Ireland only)

If a new mains plug needs to be fitted:

- Safely dispose of the old plug.
- Connect the brown lead to the live terminal in the new plug.
- Connect the blue lead to the neutral terminal.

Warning! No connection is to be made to the earth terminal. Follow the fitting instructions supplied with good quality plugs. Recommended fuse: 5 A.

Protecting the environment

Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled, reducing demand for raw materials. Please recycle electrical products and batteries according to local provisions. Further information is available at www.2helpU.com

Technical data

		BCD900D1S	BCD900E2K	BCD900M1K	BCD900B
Input voltage	V_{DC}	18	18	18	18
No-load speed	min^{-1}	0 - 1880	0 - 1880	0 - 1880	0 - 1880
Impact rate	min^{-1}	0 - 6650	0 - 6650	0 - 6650	0 - 6650
Weight	kg	2.60	2.60	2.87	2.22
Max. drilling capacity					
Concrete	mm	18	18	18	18
Steel	mm	13	13	13	13
Wood	mm	25	25	25	25
Battery		BL2018	BL2518	BBL4018	Not Supplied
Voltage	V_{DC}	18	18	18	

		BCD900D1S	BCD900E2K	BCD900M1K	BCD900B
Capacity	Ah	2.0	2.5	4.0	
type		Li-Ion	Li-Ion	Li-Ion	
Charger		N517388 typ.2	N517388 typ.2	906068** typ.1	Not Supplied
Input Voltage	V_{AC}	220 - 240	220 - 240	230	
Output Voltage	V_{DC}	8 - 20	8 - 20	18	
Current	A	1	1	2.0	
Approx. Charge time	min	120	150	120	

Declared dual-number noise emission values in accordance with ISO 4871

Measured A-weighted sound power level, L_{WA} (ref.1pW), in decibels = 99.5 dB(A)

Uncertainty, K_{WA} in decibels = 3 dB(A)

Measured A-weighted sound emission sound pressure level at the work station, L_{pA}, in decibels = 88.5 dB(A)

Uncertainty, K_{PA} in decibels = 3 dB(A)

Values determined according to noise test code given in EN 60745- 1:2009/A11:2010, using the basic standards EN 60745-2-6:2010.

Note: The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.

Vibration total values (triaxial vector sum) determined according to EN60745

	The work mode description "Hammer drilling into concrete"	The work mode description "Chiselling"
Vibration emission value a_h	14.4 m/s^2	11.8 m/s^2
Uncertainty K	1.5 m/s^2	11.5 m/s^2

EC declaration of conformity

MACHINERY DIRECTIVE

CE

BCD900 Rotary hammer

Black & Decker declares that these products described under "technical data" are in compliance with:

EN60745-1:2009+A11:2010, EN60745-2-6:2010.

These products also comply with Directive 2006/42/EC, 2014/30/EU and 2011/65/EU. For more information, please contact Black & Decker at the following address or refer to the back of the manual.

The undersigned is responsible for compilation of the technical file and makes this declaration on behalf of Black & Decker.

A.P. Smith
Technical Director
Black & Decker Europe, 270 Bath Road, Slough,
Berkshire, SL1 4DX
United Kingdom
PENDING

Guarantee

Black & Decker is confident of the quality of its products and offers consumers a 24 month guarantee from the date of purchase. This guarantee is in addition to and in no way prejudices your statutory rights. The guarantee is valid within the territories of the Member States of the European Union and the European Free Trade Area.

To claim on the guarantee, the claim must be in accordance with Black&Decker Terms and Conditions and you will need to submit proof of purchase to the seller or an authorised repair agent. Terms and conditions of the Black&Decker 2 year guarantee and the location of your nearest authorised repair agent can be obtained on the Internet at www.2helpU.com, or by contacting your local Black & Decker office at the address indicated in this manual.

Please visit our website www.blackanddecker.co.uk to register your new Black & Decker product and receive updates on new products and special offers.

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