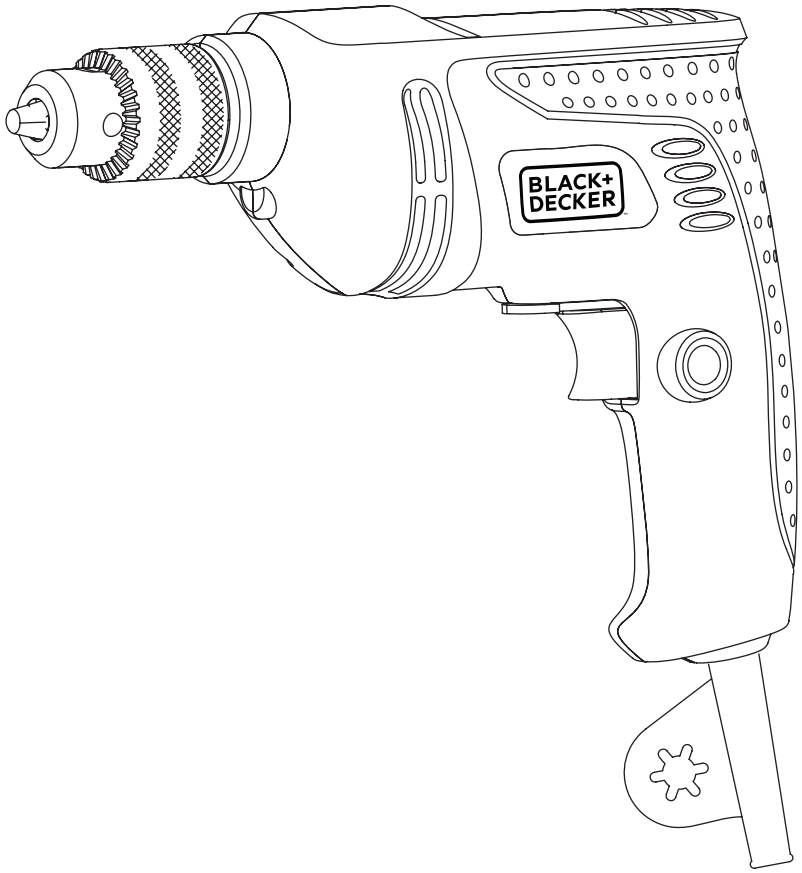
BLACK+
DECKER
™



BD10RD

FIG. A

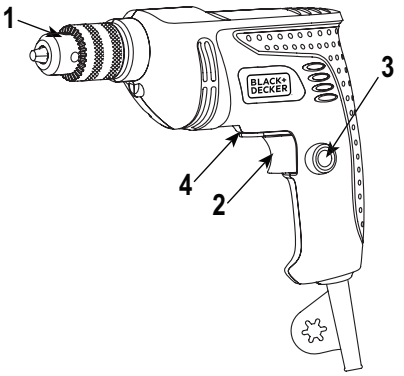


FIG. B

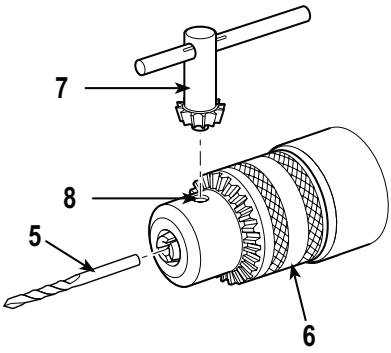


FIG. C

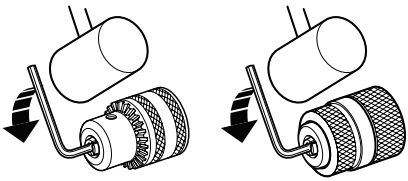
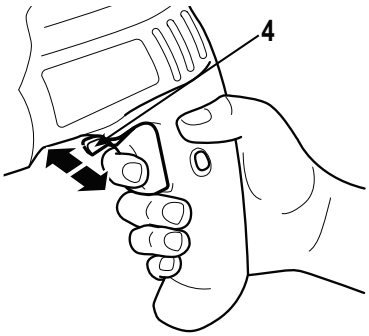


FIG. D



* The illustrations are for representative purposes only, they can differ from actual product.

Intended use

This tool is intended for drilling in wood, metal, ceramic and plastic. Machines with electronic control and right/left rotation are also suitable for screw driving and
thread-cutting.

General power tool safety warnings

WARNING! Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

a) **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.

b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

a) **Power tool plugs must match the outlet.** Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.

c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock. d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

a) **Stay alert, watch what you are doing and use common sense when operating a power tool.** Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.

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

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

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

f) **Dress properly.** Do not wear loose clothing

or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

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

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

4) **Power tool use and care**

a) **Do not force the power tool.** Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.

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

e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

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

5) **Service**

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

Electrical safety

Your tool 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.

Warning! If the power cord is damaged, it must be replaced by the manufacturer, authorized BLACK+DECKER Service Center or an equally qualified person in order to avoid damage or injury. If the power cord is replaced by an equally qualified person, but not authorized by BLACK+DECKER, the warranty will not be valid..

Labels on tool

The label on your tool may include the following symbols along with the date code:

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Position of date barcode

The Date Code, which also includes the year of manufacture, is printed into the housing. Example:

2020 XX JN
Year of manufacturing

Features (Fig. A).

1. Chuck
2. Switch for on/off and speed control
3. Button for switch locking
4. Switch for changing direction of rotation

Drill safety warnings

1) **Safety instructions for all operations**

a) **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.

b) **Use the auxiliary handle(s).** Loss of control can cause personal injury.

c) **Brace the tool properly before use.** This tool produces a high output torque and without properly bracing the tool during operation, loss of control may occur resulting in personal injury.

d) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring or its own cord.** 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.

2) **Safety instructions when using long drill bits**

a) **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.

b) **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.

c) **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.

d) **Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company for assistance.** Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to explosion. Penetrating a water line causes property damage or may cause an electric shock.

e) **Switch off the power tool immediately when the tool insert jams. Be prepared for high reaction torque that can cause kickback.** The tool insert jams when: the power tool is subject to overload or it becomes wedged in the work piece

f) **Hold the machine with a firm grip.** High reaction torque can briefly occur while driving in and loosening screws.

g) **When working with the machine, always hold it firmly with both hands and provide for a secure stance.** The power tool is guided more secure with both hands.

h) **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.

j) **Always wait until the machine has come to a complete stop before placing it down.**

The tool insert can jam and lead to loss of control over the power tool.

f) **If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorized customer service agent.** The replacement plug.

i) **Should have the same fuse rating as the original plug.** The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.

Assembly

Warning! Before assembly, make sure that the tool is switched off and unplugged.

Fitting a drill bit or screwdriver bit Keyed chuck (Fig. B)

- Open the chuck by turning the sleeve (6) counterclockwise.
- Insert the bit shaft (5) into the chuck.
- Insert the chuck key (7) into each hole (8) in the side of the chuck and turn clockwise until tight.

Removing and refitting the chuck (Fig. C)

- Open the chuck as far as possible.
- Remove the chuck retaining screw, located in the chuck, by turning it clockwise using a screwdriver.
- Tighten an Allen key into the chuck and strike it with a hammer as shown.
- Remove the Allen key.
- Remove the chuck by turning it counterclockwise.
- To refit the chuck, screw it onto the spindle and secure it with the chuck retaining screw.

Use

- On/off
- Switch locking for continuous use
- Speed control for smooth starting
- Maximum speed control With wheel C the maximum speed can be adjusted from low to high

- Switch on the tool
- Lock the switch
- Turn wheel C to select maximum speed

- Changing direction of rotation

- When not properly set in left/right position, switch A can not be activated. Change direction of rotation only when tool is at a complete standstill

- Changing bits

- Insert the bit as deep as possible in the chuck. Do not use bits with a damaged shank

- Holding and guiding the tool While working, always hold the tool at the grip area(s)

- Keep ventilation slots uncovered
- Do not apply too much pressure on the tool; let the tool do the work for you

Selecting the direction of rotation (Fig. D)

For drilling and for tightening screws, use forward (clockwise) rotation. For loosening screws or removing a jammed drill bit, use reverse (counterclockwise) rotation.

- To select forward rotation, push the forward/ reverse slider (4) to the centre position.
- To select reverse rotation, push the forward/ reverse slider to the left.

Warning! Never change the direction of rotation while the motor is running.

Switching on and off

- To switch the tool on, press the speed switch (2). For tools with variable speed switch, 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.
- For continuous operation, press the lock-on button (3) and release the speed switch. This option is available only at full speed.
- To switch the tool off, release the speed switch. To switch the tool off when in continuous operation, press the speed switch once more and release it.

Application advice

Use the appropriate bits Only use sharp bits
- When drilling ferrous metals
- Pre-drill a smaller hole, when a large hole is required
- Lubricate drill bit occasionally with oil
- Splinter-free drilling in wood
- Dust-free drilling in ceilings
- Drilling in tiles without skidding

Accessories

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

Maintenance

Your 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, switch off and unplug the tool.

- Regularly clean the ventilation slots in your tool 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.

Protecting the environment

Separate collection. This product must not be disposed of with normal household waste.

Should you find one day that your BLACK+DECKER product needs replacement, or if it is of no further use to you, do not dispose of it with household waste. Make this product available for separate collection.

Separate collection of used products and packaging allows materials to be recycled and used again. Re-use of recycled materials helps prevent environmental pollution and reduces the demand for raw materials.

Local regulations may provide for separate collection of electrical products from the household, at municipal waste sites or by the retailer when you purchase a new product

Technical data

		BD10RD
Rated Voltage	V	220-240
Rated Frequency	Hz	50/60
Rated Power	W	400
No-Load Speed	min^{-1}	0-3000
Chuck Size	mm	10
Drill Capacity		
Steel	mm	10
Aluminum	mm	10
Wood	mm	20
Weight	kg	1.28