



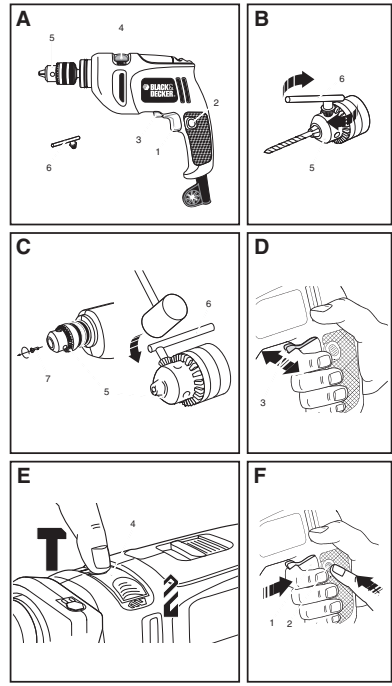
HM10
HM13
KR13RE

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This manual is applicable for -KR, -A91 & -XD.

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90550814



Variable Speed Reversing Hammer Drill HM10 / HM13 / KR13RE

Technical Data

Hammer Drill	HM10	HM13	KR13RE
Chuck Capacity	mm 1-10	1.5-13	1.5-13
Chuck Capacity	mm 1-10	1.5-13	1.5-13
Power input	W 400	500	500
No Load Speed	RPM 0-2,800	0-2,800	0-2,800
Impact Rate	BPM 0-44,800	0-44,800	0-44,800
Reverse	Yes	Yes	Yes
Max. Drilling Capacity in steel / wood / concrete	m 10/20/1	13/20/13	13/20/13
Weight	Kg 1.55	1.7	1.7

Safety Instructions

When using power tools, always observe the safety regulations applicable in your country to reduce the risk of fire, electric shock, personal injury and material damage. Read the following safety instructions before attempting to operate this product. Keep these instructions in a safe place!

- ⚠ Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.
- ⚡ Denotes risk of electric shock.
- 🔥 Fire hazard.

1. **Keep work area clean.** Cluttered areas and benches can cause accidents.
2. **Consider work area environment.** Do not expose power tool to humidity. Keep work area well lit (250-300 Lux). Do not use Power Tools in the presence of inflammable liquids or gases.
3. **Guard against electric shock.** Prevent body contact with earthed surfaces (e.g. pipes, radiators, cookers and refrigerators). For use under extreme conditions (e.g. high humidity, when metal swarf is being produced, etc.) electric safety can be improved by inserting an isolating transformer or an earth-leakage circuit breaker.
4. **Keep children away.** Do not let children come into contact with the tool or extension cord. Keep all people away from the work area.
5. **Store idle tools.** When not in use, power tools must be stored in a dry place and locked up securely, out of reach of children.
6. **Use appropriate tool.** The intended use is laid down in this instruction manual. Do not force small tools or attachments to do the job of a heavy-duty tool. The tool will do the job better and safer at the rate for which it was intended. Do not force the tool.

⚠ **Warning!** 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.

7. **Wear properly.** Do not wear loose clothing or jewelry. They can be caught in moving parts. Preferably wear rubber gloves and non-slip footwear when working outdoors. Wear protective hair covering to keep long hair out of the way. When working outdoors, preferably wear suitable gloves and non-slip footwear.
8. **Personal protection.** Always use safety glasses. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. Use a face or dust mask whenever the operations may produce dust or flying particles. If these particles might be considerably hot, also wear a heat-resistant apron. Wear ear protection whenever the sound level seems uncomfortable, i.e. if the sound pressure stated in this manual exceeds 85 dB(A).

9. **Connecting dust extraction equipment.** If devices are provided for the connection of dust extraction and collection ensure these are connected and properly used, especially in confined areas.
10. **Do not abuse cord.** Never carry the tool by its cord or yank it disconnected from the socket. Keep the cord away from heat, oil and sharp edges.

11. **Secure workplace.** Use clamps or a vice to hold the workpiece. It is safer and it frees both hands to operate the tool.
12. **Do not overreach.** Keep proper footing and balance at all times.

13. **Maintain tools with care.** Keep the tools in good condition and clean for better and safer performance. Follow the instructions for maintenance and changing accessories. Inspect the tool cords at regular intervals and, if damaged, have them repaired by an authorized repair agent. Inspect the extension cords periodically and replace them if damaged. Keep all contents dry, clean and free from oil and grease.
14. **Disconnect tool.** Switch off and wait for the tool to come to a complete standstill before leaving it unattended. Unplug the tool when not in use, before servicing or changing accessories.

15. **Remove adjusting keys and wrenches.** Always check that adjusting keys and wrenches are removed from the tool before switching on.
16. **Avoid unintentional starting.** Do not carry the plugged-in tool with a finger on the switch. Be sure that the switch is released when plugging in.

17. **Extension cords for outdoor use.** When the tool is used outdoors, only use extension cords intended for outdoor use and marked accordingly. Before use, inspect the extension cable and replace if damaged.
18. **Stay alert.** Watch what you are doing. Use common sense. Do not operate the tool when you are tired.

19. **Check for damaged parts.** Before using the tool, carefully check it for damage to ensure that it will operate properly and perform its intended function. Check for misalignment and seizure of moving parts, breakage of parts and any other conditions that may affect its operation. Have damaged guards or other defective parts repaired or replaced as instructed. Do not use the tool if the switch is defective. Have any damaged or defective parts replaced by an authorized repair agent. Never attempt any repairs yourself.
20. **Have your tool repaired by an authorized repair agent.** This Power Tool is in accordance with the relevant safety regulations. To avoid danger, electric appliances must only be repaired by qualified technicians using original spare parts.

Additional Safety Instructions for Hammer Drills

21. Keep your drill bits sharp for best and safest performance.
22. When fitting and changing accessories, always use the instructions supplied with the accessory.
23. Should your hammer drill develop a fault, do not try to fix it yourself, but take it to one of our authorized repair agents.
24. Make sure the power switch is not "on" before you plug in. Always switch off before you put your hammer drill down.
25. **Do not force your hammer drill** - it will do a better and safer job at the speed for which it was designed.

⚠ **Warning:** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber (CCA).

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

Avoid prolonged contact with dust from power sanding, sawing, grinding, drilling, and other construction activities. Wear protective clothing and wash exposed areas with soap and water. Allow dust to get into your mouth, eyes, or lay on the skin may promote absorption of harmful chemicals.

Labels on your tool

- They may include the following symbols:
- V volts
 - A Amperes
 - Hz Hertz
 - W Watts
 - Min. Minutes
 - ~ Alternating current
 - Direct current
 - n.s. No load speed

- ⊠ Class II Construction
- ⊕ Earthing terminal
- ⚠ Safety alert symbol
-/min Revolutions or reciprocation per minute
-/rpm Beats per minute

Save these instructions.

Double Insulation

⊠ The tool is double insulated. Double insulation means that all the external metal parts are electrically insulated from the main power supply. This is done by placing insulated barriers between the electrical and mechanical components so as to make unnecessary for the tool to be earthed.

Note: Double insulation does not take the place of normal safety precautions when operating this tool. The insulation system is for added protection against injury resulting from a possible electrical insulation failure within the tool.

Electrical safety

The electric motor has been designed for one voltage only. Always check that the power supply corresponds to the voltage on the rating plate.

⚠ **Warning:** Never connect the live (L) or neutral (N) wires to the earth pin marked E or Ⓛ.

Using an Extension Cable

An extension cable should not be used unless absolutely necessary. Use of an improper extension cable could result in a risk of fire and electric shock. If an extension cable must be used, use only those that are approved by the country's Electrical Authority. Make sure that extension cord is in good condition before using. Always use the cord that is suitable for the power input of your tool (see technical data on name plate).

When using a cable reel, always unwind the cable completely.

Features (fig. A)

Your Black & Decker hammer drill has been designed for screwdriving applications and for drilling in wood, metal, plastic and concrete.

- This tool is intended for consumer use only.
1. Variable speed on / off trigger switch
 2. Lock-on button
 3. Forward / reverse slider
 4. Drill mode selector
 5. Chuck
 6. Chuck key

Your Drill Includes These Features

- The on/off trigger switch is used to operate your drill in all modes of operation.
- The lock-on button provides continuous operation of your drill.
- Your drill can operate as a hammer drill or as a rotary drill depending on the setting of the drill mode selector.
- The forward / reverse switch controls the direction of rotation when your drill is used as a screwdriver, or when clearing a jammed drill bit.

Assembly and Adjustment

- ⚠ Prior to assembly and adjustment always unplug the tool.
- N.B. Accessories mentioned in this manual may not necessarily be included in your pack.

Fitting and Removing a Drill Bit or Screwdriver Bit (Fig. B)

- ⚠ Disconnect the plug from the electricity supply.
- Turn chuck key (6) counterclockwise to open chuck jaws, place bit in chuck as far as it will go and then pull it out far enough so that the chuck jaws do not touch the flutes of the bit.
- Tighten chuck collar by hand.
- Place chuck key in each of the three holes, and tighten in clockwise direction. It's important to tighten the chuck with all three holes to prevent bit slippage.
- To release bit, turn chuck key counterclockwise in just one hole, then continue to loosen chuck by hand.

Removing and Fitting a Chuck (Fig. C)

- Open the chuck jaws as far as possible.
- Insert a screwdriver into the chuck and remove the chuck retaining screw (7) by turning clockwise as shown.
- Insert the chuck key (6) into one of the holes in the side of the chuck and strike it with a hammer as shown.

Instruction for Use

- ⚠ Always observe the safety instructions and applicable regulations.
- Be aware of the location of pipework and wiring.
- Apply only a gentle pressure to the tool (approx. 2-3 kg). Excessive force does not speed up drilling but decreases tool performance and may shorten tool life.

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 (3) to the center.
- To select reverse rotation, push the forward/reverse slider to the left.

Selecting the Drilling Mode (Fig. E)

- For drilling in masonry, set the drilling mode selector (4) to the **T** position.
- For drilling in other materials and for screwdriving, set the drilling mode selector (4) to the **I** position.

Switching On and Off (Fig. F)

- To switch the tool on, press the on/off trigger switch (1). The more the trigger is depressed the faster the speed will be.
- 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 (2) and release the on/off switch. This option is available only at full speed.
- To switch the tool off, release the on/off switch. To switch the tool off when in continuous operation, press the on/off switch once more and release it.

Handy Hints

- Fit the correct size and type of drill or screwdriver bit.
- Always hold your drill at right angles to your work.
- Set the forward / reverse switch to the correct direction.
- Never change the direction of rotation when your drill is in operation.
- When drilling wood and metal or screw driving, set the drill mode selector to the drill mode **I**. When drilling masonry, set the drill mode selector to **T**.
- After use, remove the drill bit and gently tap the side of the chuck with a soft-faced hammer to remove the dust. This will extend the life of the chuck.
- If your drill becomes too hot in use, allow your drill to operate without load for 2 minutes.
- Never use excessive force when using your drill. Too much pressure can reduce the speed of your drill and reduce its efficiency. This can result in an overload and can cause damage to the motor of your drill.

Maintenance

Your Black & Decker power 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.

Tool Cleaning

- ⚠ Unplug the tool before you use a cloth to clean the housing.

With the motor running, blow dirt and dust out of all air vents with dry air regularly. Wear safety glasses when performing this. Exterior plastic parts may be cleaned with a damp cloth and mild detergent. Although these parts are highly solvent resistant, NEVER use solvents.

Lubrication

Your drill has been adequately lubricated before leaving the factory. This hammer drill is not user-serviceable. Take it to an authorized Black & Decker repair agent for service. **Important** To ensure product SAFETY and RELIABILITY, repairs, maintenance and adjustment (other than those listed in this manual) should be performed by authorized service centers or other qualified organizations, always using identical replacement parts. Unit contains no user serviceable parts inside.

Accessories

The performance of any power tool is dependent upon the accessory used. Black & Decker accessories are engineered to high quality standards and are designed to enhance the performance of power tool. By using Black & Decker accessories will ensure that you get the very best from your tool. Black & Decker offers a large selection of accessories available at our local dealer or authorized service center at extra cost.

Protecting The Environment

⚠ **CAUTION:** The use of any non-recommended accessories may be hazardous.

Service Information

Black & Decker offers a full network of company-owned and authorized service locations throughout Asia. All Black & Decker Service Centers are staffed with trained personnel to provide customers with efficient and reliable power tool service. Whether you need technical advice, repair or genuine factory replacement parts, contact the Black & Decker location nearest to you.

Notes

- Black & Decker's policy is one of continuous improvement to our products and, as such, we reserve the right to change product specifications without prior notice.
- Standard equipment and accessories may vary by country.
- Product specifications may vary by country.
- Complete product range may not be available in all countries. Contact your local Black & Decker dealer for range availability.

