



INSTRUCTION MANUAL

Hammer Drills 3/8" (10mm) and 1/2" (13mm)

SAFETY INSTRUCTIONS

Warning! When using electrical tools, the following basic safety precautions should always be taken to reduce the risk of fire, electric shock and personal injury. Read all these instructions before attempting to operate the product and save this booklet.

Keep work areas clean. Cluttered areas and benches invite injuries. Consider the work area environment. Do not expose the power tool to rain and do not use in damp or wet locations. Keeps work areas well lit. Do not use the power tool where there may be a risk of fire or explosion.

Guard against electric shock. Avoid body contact, where possible with earthed or grounded surfaces (e.g. pipes, radiators, ranges and refrigerators).

Keep children away. Do not let visitors should touch the tool or extension cord. All visitors should be kept away from the work area.

Store idle tools. When not in use, tools should be stored in a dry, high or locked place, out of the reach of children.

Do not force the tool. It will deliver better performance when tool is used at the recommended speed.

Use the right tool. Do not force small tools or attachments to do the job of a heavy-duty tool. Do not use the tool for purposes not intended; for example, do not use a circular saw to cut a tree limb or logs.

Dress properly. Do not wear loose clothing or jewelry as they can be caught in moving parts. Rubber gloves and non-skid footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.

Use safety glasses. Use a face or dust mask as well, if the operation is dusty or if the tool is being used in enclosed spaces.

Connecting dust extraction equipment. If devices are provided for the connection of dust extraction and collection, ensure that these are connected and properly used, especially in confined areas.

Do not abuse the cord. Never carry the tool by its cord or yank it to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.

Secure the work. Use clamps or vices to securely fasten the material you are working with. It is safer than using a hand and it frees both hands to operate the tool.

Do not overreach. Keep proper footing and balance at all times.

Maintain the tool with care. Keep a cutting tool sharp and clean for better and safer performance. Follow the instructions for lubricating and changing accessories. Inspect the tools and cord periodically and if damaged, have repaired by an Authorized Service Center. Inspect the extension cord periodically and replace if damaged. Keep the handles dry, clean and free from oil and grease.

Disconnect the tool. When not in use, before servicing and when changing accessories such as blades, bits and clutters.

Remove adjusting key wrenches. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool and replaced in the storage area before switching on.

Avoid unintentional starting. Do not carry a plugged-in tool with a finger on the switch. Make sure the switch is off when the tool is plugged in.

Use an outdoor extension cord. When a tool is used outdoors, only use an extension cord intended for outdoor use.

Stay alert. Watch what you are doing, use common sense and do not operate the tool when tired.

Check damaged parts. Before further use of the tool, guard and other parts that are damaged should be carefully checked to determine whether it would operate properly and perform its intended function. Check for alignment of moving parts; free running of moving parts; breakage of parts; mounting and any other conditions that may affect its operation.

If the guard or other parts are damaged, they should be properly repaired or replaced by an Authorized Service Center unless otherwise indicated in the product booklet. Have defective switches replaced by an Authorized Service Center.

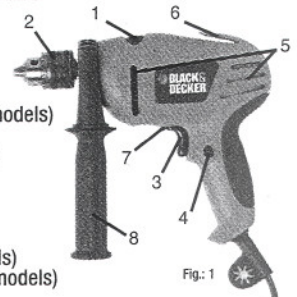
Do not use the tool if the switch does not turn on or off.

Warning! The use of any accessory or attachment other than recommended in the product booklet, may present a risk of personal injury.

Have the tool repaired by a qualified person. The electrical tool is in accordance with the relevant safety requirements. A qualified person using original spare parts should only carry out repairs; otherwise, this may result in considerable danger to the user.

Save these instructions!

FEATURES



1. Drill switch (only with specific models)
2. Chuck
3. On/off switch or variable switch
4. Lock-on button
5. Air ventilation
6. Belt clip
7. Forward/reverse switch control (only with specific models)
8. Side handle (only with specific models)

COMMANDS



- The on/off switch or variable speed switch is used to operate your drill in all modes of operation.
 - The lock-on button provides continuous operation of your drill.
 - On two speed drills, the speed control allows selection of the appropriate drilling speed.
 - The side handle (where provided) gives a secondary gripping position for your drilling speed.
 - Your drill can operate as a hammer drill or a rotary drill depending on the setting of the hammer/drill switch.
 - The forward/reverse switch controls the direction of the rotation when your drill is used as screwdriver, or when clearing a jammed drill bit.
- On/Off Switch (Fig. 1 item 3)**
To switch your drill on, depress the on/off switch; your drill stops when the switch is released.

Lock-on Button (Fig. 1 item 4)

If continuous operation is required, press the lock-on button while the on/off switch is depressed (Fig. 1 item 3). To stop when operation is continuous, depress the on/off switch again and release.

Percussion Switch (Fig. 1 item 1)

This is a special feature in your drill that allows hitting and rotating at the same time.

- a) Drill Mode  When drilling wood and metal. Useful for drilling projects only.
- b) Hammer Mode  When drilling masonry, set the hammer switch in this mode.

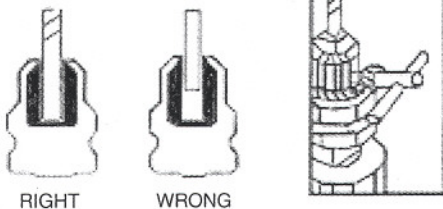
Two Speed Switch (Fig. 1 item 3)

To set the two-speed switch in low speed push the switch midway backward "I", to set the switch in high-speed push the switch all the way backward "II".

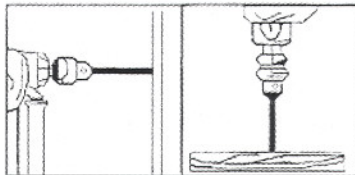
OPERATIONS

- AS A GENERAL RULE.** For large size drill bits use low speeds and for smaller drill bits use high speeds. On variable speed drills, the more the trigger is pressed the faster the speed.
- SET THE SPEED OF YOUR DRILL.** Set the forward/reverse switch to the desired direction of rotation. Never change the setting of the hammer switch, or the forward/reverse when your drill is in operation.
- MAINTAIN VENTS CLEAR OF OBSTRUCTION.** In order to maintain your tool from over heating and extend the life of your tool, maintain the ventilation areas of your tool free from obstruction all the time.
- HOW TO POSITION A DRILL BIT ON YOUR DRILL.** Select the appropriate drill bit for the job (follow the guidelines of the table below). First, make sure the drill is unplugged. Holding the rear section of the chuck, rotate the front section until the jaws of the chuck are sufficiently open. Insert the drill bit in the jaws of the chuck. Hold the rear section of the chuck while tightening the front. Turn the chuck key clockwise to tighten the jaws and securely grip the drill bit. Use the chuck key in the 3 holes for better results.

DRILL BIT	APPLICATION
<ul style="list-style-type: none"> • High Speed Steel • Cobalt Steel • Tungsten Carbide 	<ul style="list-style-type: none"> • Steel, Aluminium, all types of woods • All types of wood • Masonry, concrete, stone, brick, tile marble, etc.

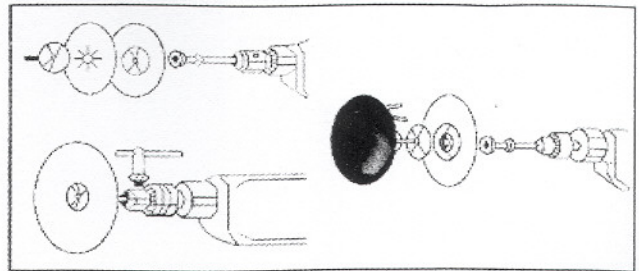


- DRILLING:** Make sure the material to be drilled is tightly fastened and when drilling thin materials use a wood support. Always drill at a 90° angle and place enough pressure on the drill for the drill to perforate the surface you are drilling. Never use excessive force when using your drill.

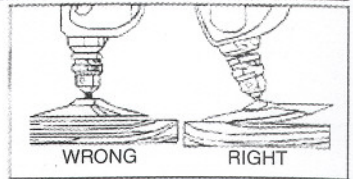


- ACCESSORIES:** Various accessories can fit your drill, allowing you to diversify its use.
- SANDING / POLISHING:** Position the disc as shown in the figure below. Place the rubber support in the chuck and turn the chuck key

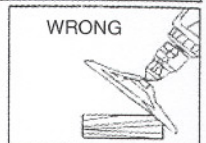
clockwise to tighten the jaws to securely fasten the disc. To set the polishing feature follow the example using the rubber disc and the spindle.



When sanding, do not put all the pressure on the face of the disc; incline the disc at an angle on the surface.



While sanding use horizontal and vertical movements. Avoid circular movements. Never sand on edges, this may cause damage to sand paper as well as rubber disc.



FEATURES

Model	POWER		(rpm) rev/min		
	Watts	AMPS		I	II
		120V	220V		
BH50	430	3.5	1.9	2500	
BH90	450	3.7	2.0	2 500	
BH100	450	3.7	2.0	2 500	
BH120	450	3.7	2.0	2 500	
BH150	450	3.7	2.0	2 100	2 500
BH200	450	3.7	2.0	0 - 2 500	
BH300	500	4.0	2.2	0 - 2 500	

ACCESSORIES

The performance of any power tool depends upon the accessory used. Black & Decker accessories are engineered to high quality standards and are designed to enhance the performance of your tool. Purchasing Black and Decker accessories will ensure the best performance of your Black and Decker tool.

DOUBLE INSULATION

The tool is double insulated. This means that all the external metal parts are electrically insulated from the main power supply. This is done by placing insulation barriers between the electrical and mechanical components making it necessary for the tool to be earthed (grounded).

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

EXTENSION CABLES - Up to 30m (100 ft.) of 3 core extension cable can be used with undue loss of power.

NOTE: An extension cable should not be used unless absolutely necessary. If the use of an extension cable is a must, make sure it is properly wired, contains the correct rated fuse as recommended in its literature and is in good electrical condition.

TECHNICAL DATA

The level of sound pressure of the tool is in accordance with U.L. legislation. It is recommended that you take appropriate measures for the protection of your hearing if the sound level seems uncomfortable. The normally equates to a sound pressure in excess of 85db (A).