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Polymak[®]

IMPACT DRILL

10mm

INSTRUCTION MANUAL



Read and follow all safety precautions in instruction manual.

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.

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. 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.

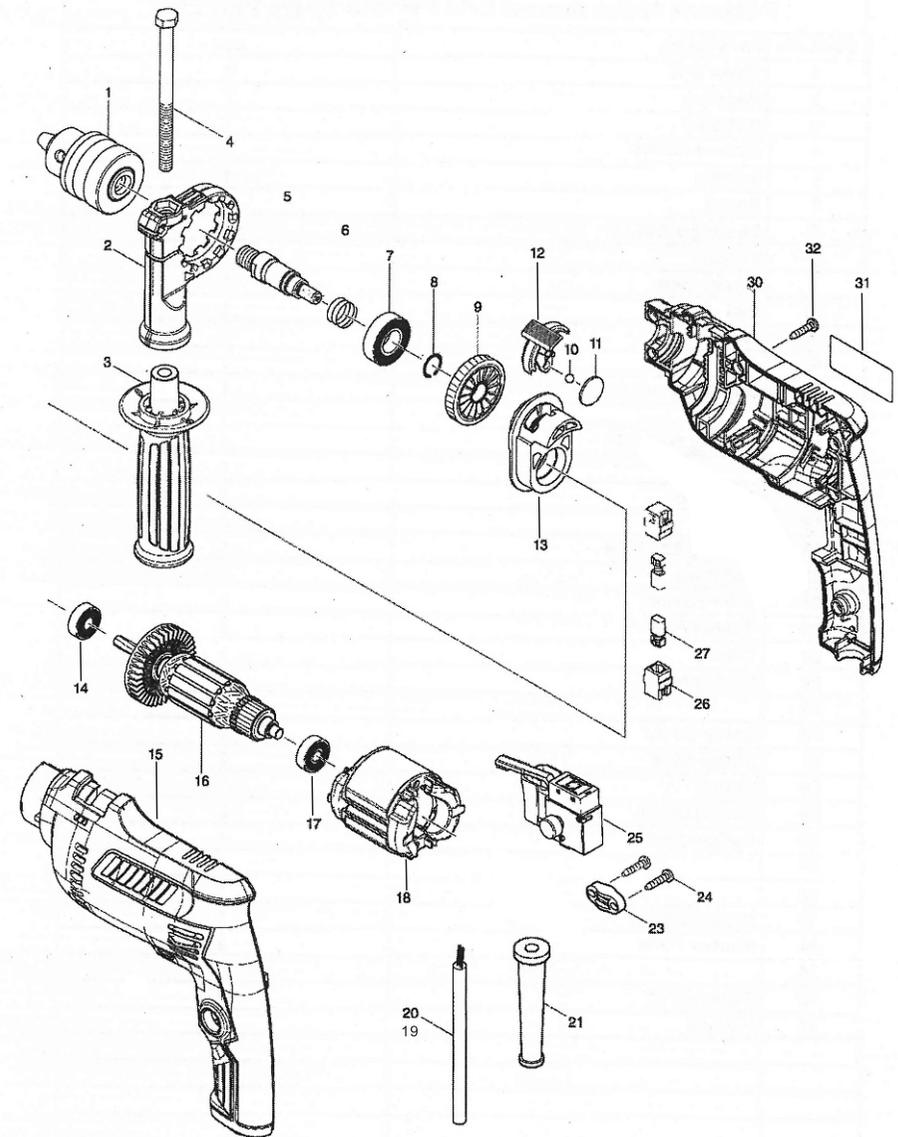
5) Service

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.

Special safety precautions

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

Always use auxiliary handle for maximum control over torque reaction or kick back. Use thick cushioned gloves and limit the exposure time by taking frequent rest periods. Vibration caused by hammer-drill action may be harmful to your hands and arms



Replacing carbon brushes

For safety reasons, the machine automatically switches off if the carbon brushes are so worn out that they no longer have contact with the motor. In that case, the carbon brushes must be replaced by a pair similar carbon brush available through the after-sales service organization or qualified professional person.

CAUTION: The brushes must always be replaced in pairs.

CAUTION: Always disconnect the machine from the power supply before removing any electrical covers.

Recycling



Meaning of crossed-out wheeled dustbin:

Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.

When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

Secure the material being drilled. Never hold it in your hand or across legs. Unstable support can cause the drill bit to bind causing loss of control and injury.

Position the cord clear of rotating bit. Do not wrap the cord around your arm or wrist. If you lose control and have the cord wrapped around your arm or wrist it may entrap you and cause injury.

If the bit becomes bound in the work-piece, release the trigger immediately, reverse the direction of rotation and slowly squeeze the trigger to back out the bit. The drill body will tend to twist in the opposite direction as the drill bit is rotating.

Do not grasp the tool or place your hands too close to the spinning chuck or drill bit.

Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks, which may cause fire or explosions.

Do not touch the bit after operation. It will be very hot.

Only use accessory bit in good condition.

Keep your hands away from under the work-piece.

Periodically check that all nuts, screws and other fixings are properly tightened.

Rags, cloths, cord, string and the like should never be left around the work area.

After a period of time used, the carbon brushes may be worn off to the limit and with more sparks appearing, it is the time to replace the brushes, otherwise the motor may be damaged.

Explanation of symbols

	Conforms to relevant safety standards
	To reduce the risk of injury, the user must read and understand this manual before using this product.
	Wear ear protectors. <i>Exposure to noise can cause hearing loss.</i>
	Wear eye protection.
	Wear respiratory protection.
	Do not dispose of old appliances with domestic rubbish
	Double insulation

Introduction

This impact drill intended for drill and impact drill.

Mostly, drilling of various qualities of wood, steel, bronze and aluminum materials and castings, etc.

Use tungsten carbide-tipped masonry impact bits when drilling holes in brick, tile, concrete, etc.

This tool has drill and impact drill function. The main features are listed below (Fig. 1):

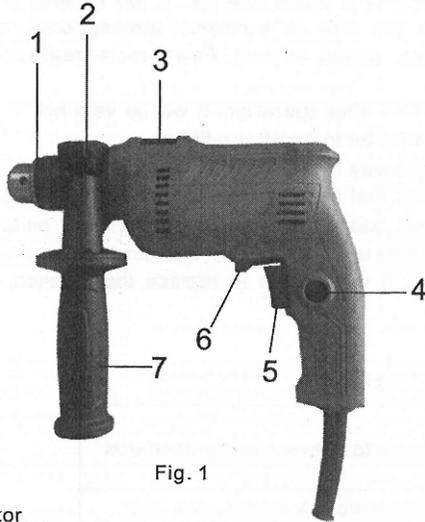


Fig. 1

1. Keyless chuck with lock
2. Depth gauge
3. Drill and Impact mode selector
4. Lock-on button
5. ON/OFF switch trigger
6. Forward/reverse lever
7. Auxiliary handle subassembly

Technical Specification:

Rated voltage: 230V AC

Frequency: 50Hz

Rated Power: 710W

No load speed: 0-3000/min

Max diameter of drill: 10 mm

Max. drilling diameter :

Wood: 25mm

Steel: 10 mm

Concrete: 16mm

Secure the work-piece to prevent it from turning when drilling.

Begin drilling at a very low speed to prevent the bit from slipping off the starting point. Increase the speed as the drill bit bites into the material.

When drilling through holes, place a block of wood behind the work-piece to prevent ragged or splintered edges on the back side of the hole.

Do not lock the trigger in the "on" position when the drill may need to be stopped suddenly.

Masonry drilling

For maximum performance use tungsten carbide-tipped masonry impact bits when drilling holes in brick, tile, concrete, etc.

Push the drilling mode selector to impact mode

Apply light pressure and medium speed for best results in brick.

Apply additional pressure and high speed for hard materials such as concrete.

When drilling in the, practice on a scrap piece to determine the best speed and pressure.

CAUTION!

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

Inspecting the mounting screws regularly inspect all mounting screws and ensure that they are properly tightened.

Regularly clean the tool's air vents with compressed dry air. Do not attempt to clean by inserting pointed objects through openings.

CAUTION!

Certain cleaning agents and solvents damage plastic parts. Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia.

The brushes should be checked periodically and worn-out brushes should be replaced in time.

WARNING!

If any of the following events occur during normal operation, the power supply should be shut off at once and tool thoroughly inspected by a qualified person and repaired if necessary:

The rotating parts get stuck or speed drops abnormally low.

The tool shakes abnormal accompanied by some unusual noise.

The motor housing gets abnormal hot.

Heavy sparks occur around the motor area.

Cleaning and maintenance

Wipe the drill using a well-wrung cloth after use and always keep the surface and ventilation holes free of dirt.

Never use corrosive or abrasive detergents, as they may attack the plastic parts of the machine.

For Proper Operations



Fig. 8

Hold the drill with your first two fingers on the ON/OFF switch (5).

Use the auxiliary handle subassembly (8) where possible to gain extra control and to prevent fatigue.

For wood, use twist drill bits, spade bits power auger bits, or hole saw.

For metal use high speed steel twist drill bits or hole saws.

For masonry, such as brick, cinder block, cement, etc, use carbide tipped drill bits.

Use enough pressure to keep the bit biting but do not push so hard that do not stall the motor or damage the bit.

Always apply pressure in a straight line with the bit.

Hold the drill firmly to control the twisting of the drill.

Warning: If the drill stalls, release the trigger immediately, remove the drill from the work and determine the cause of the stalling. Do not click the switch on and off as this can damage the motor.

To minimize the chance of stalling and breaking through the material, reduce the pressure on the drill and ease the bit through the last part of the hole.

Keep the motor running when pulling the bit back out of a drilled hole. This will help prevent jamming.

Metal drilling

For maximum performance, use high speed steel bits for metal or steel drilling.

Push drilling mode selector to drilling mode

Use a center punch to mark the hole location on the work-piece.

Begin drilling at a very low speed to prevent the bit from slipping off the starting point.

Maintain a speed and pressure which allows cutting without overheating the bit. Applying too much pressure will: overheat the drill; wear the bearing, bend or burn bits, produce off-center or irregular shaped holes.

When drilling large holes in metal it is recommended to drill with a small bit at first, then finish with a larger bit, also, lubricate the bit with oil to improve drilling action and increase bit life.

Wood drilling

For maximum performance, use high speed steel bits for wood drilling.

Push the drilling mode selector to drilling mode

WARNING: Prior to assembly and adjustment always pull out the power plug from the mains socket.

Changing drill or screwdriver bit

Switching on/off (Fig.3)

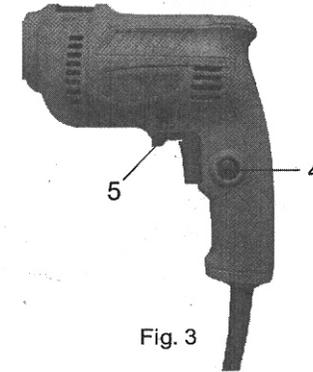


Fig. 3

Plug the cord set into power socket.

To start the tool by squeezing the ON/OFF switch trigger(5).

Release the ON/OFF switch trigger to stop the tool.

For continuous operation just press the lock-on button (4) on the left side of the handle. The lock-on button can be release by pressing the switch trigger again.

Variable speed(Fig.4)



This tool has a speed control dial (6) that delivers higher speed by turning to the "+" direction, and delivers lower speed by turning to "-" direction.

Forward/reverse lever (Fig. 5)

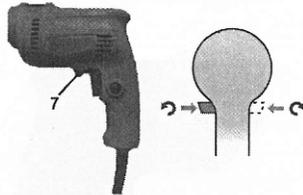


Fig. 5

The forward/reverse lever (7) is to determine the rotation direction of the chuck.

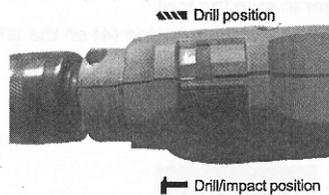
To select forward rotation, release the ON/OFF switch (5) and push the forward/reverse lever to right (R) side of the tool. To select reverse rotation, push the lever to left (L) side of the tool.

 Clockwise rotation

 Anticlockwise rotation

NOTE: When changing the position of the lever, be sure the ON/OFF switch is released and the motor is stationary.

Drill and impact mode selector (Fig. 6)



The drill and impact mode selector is on the top of this impact drill.

Push the button of drill /impact mode selector (3) to the "T" to select the drill/impact mode of action.

Push the button of drill/impact mode selector to the drill position "T" to select the drill mode of action.

The drill and impact mode selector is on the top of this impact drill.

Auxiliary handle

The auxiliary handle subassembly (8) will provide additional control, support and guidance for the drill. The auxiliary handle subassembly is adjustable to any position around the 360° handle collar mount.

Installing the auxiliary handle subassembly (Fig. 7)

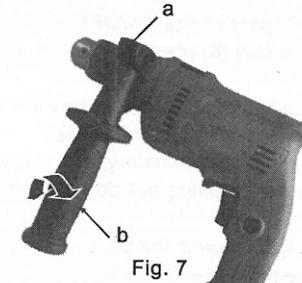


Fig. 7

Loosen the collar mount (a) by turning the handle (b) adequately.

Slide the collar mount (a) over the chuck and secure in the position shown, then slide the handle over the collar mount on the suitable position of this tool. Finally securely tighten the handle (b).

NOTE: Use auxiliary handle subassembly (8) supplied with the tool. Loss of control can cause personal injury.

Depth Gauge (Fig. 8)

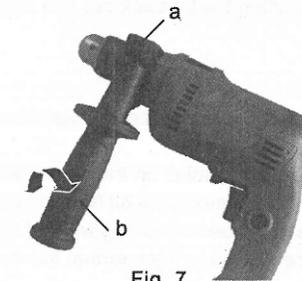


Fig. 7

Your drilling depth can be pre-set and/or repeated by using the depth gauge (2).

Setting depth: loosen the handle (b) adequately, slide the depth gauge through the hole on the collar mount (a) and place a desired depth, finally securely tighten the handle (b) again.