SAFETY AND OPERATING MANUAL

Impact drill  WX312 WX312.1
GENERAL POWER TOOL SAFETY WARNINGS

WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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 dust mask, non-slip 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 these devices 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 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.

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.

ADDITIONAL SAFETY POINTS FOR YOUR DRILL

1. Wear ear protectors when impact drilling. Exposure to noise can cause hearing loss.
2. Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.
3. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.
4. Always wear safety goggles or eye protection when using this tool. Use a dust mask or respirator for applications which generate dust.
5. 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.
6. Disconnect battery pack from tool or place the switch in the locked or off position before making any assembly, adjustments or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.
7. Position yourself to avoid being caught between the tool or side handle and walls or post. Should the bit become bound or jammed in the work, the reaction torque of the tool could crush your hand or leg.
8. If the bit becomes bound in the workpiece, release the trigger immediately, reverse the direction of rotation and slowly squeeze the trigger to back out the bit. Be ready for a strong reaction torque. The drill body will tend to twist in the opposite direction as the drill bit is rotating.
9. Do not grasp the tool or place your hands too close to the spinning
chuck or drill bit. Your hand may be lacerated.

10. When installing a drill bit, insert the shank of the bit well within the jaws of the chuck. If the bit is not inserted deep enough, the grip of the jaws over the bit is reduced and the loss of control is increased.

11. Do not use dull or damaged bits and accessories. Dull or damaged bits have a greater tendency to bind in the workpiece.

12. When removing the bit from the tool avoid contact with skin and use proper protective gloves when grasping the bit or accessory. Accessories may be hot after prolonged use.

13. Check to see that keys and adjusting wrenches are removed from the drill before switching the tool “ON”. Keys or wrenches can fly away at high velocity striking you or bystander.

14. Do not run the drill while carrying it at your side. A spinning drill bit could become entangled with clothing and injury may result.

15. Avoid bouncing and snagging the wheels, discs or brushes especially when working corners, sharp edges, etc. This can cause loss of control and kickback.

16. Position the tether clear of rotating bit. Do not wrap the tether around your arm or wrist. If you lose control and have the tether wrapped around your arm or wrist, it may entrap you and cause injury.
1 CHUCK (WX312)
2 DEPTH GAUGE
3 DRILL/ HAMMER DRILL FUNCTION SELECTOR
4 FORWARD AND REVERSE ROTATION CONTROL LEVER
5 SWITCH LOCK ON BUTTON
6 VARIABLE SPEED CONTROL
7 ON/OFF SWITCH
8 AUXILIARY HANDLE
9 KEYLESS CHUCK (WX312.1)

* Not all the accessories illustrated or described are included in standard delivery.

**TECHNICAL DATA**

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**ACCESSORIES**

**Auxiliary handle** 1
**Depth gauge** 1
**Chuck key (WX312)** 3
**HSS drill bit : 5, 6, 8mm ( Each 1 pc WX312.1)** 3
**Masonry drill bit : 6, 8,10mm (Each 1 pc WX312.1)** 3

We recommend that you purchase your accessories from the same store that sold you the tool. Use good quality accessories marked with a well-known brand name. Choose the type according to the work you intend to undertake. Refer to the accessory packaging for further details. Store personnel can assist you and offer advice.
**OPERATION**

**NOTE:** Before using the tool, read the instruction book carefully.

**INTENDED USE**
The machine is intended for impact drilling in brick, concrete and stone as well as for drilling in wood, metal and plastic.

1. **AUXILIARY HANDLE (See Fig. A)**
   Slide the handle onto the drill and rotate to the desired working position. To clamp the auxiliary handle rotates the handgrip clockwise. To loosen the auxiliary handle rotate the hand grip anti-clockwise. Always use the auxiliary handle.
   
   **WARNING! Always check and rotate the handle tightly before using to avoid any accident.**

2. **INSTALLING THE DEPTH GAUGE** (See Fig. B)
The depth gauge can be used to set a constant depth to drill. To use the depth gauge, loosen the handle by rotating the bottom section of handle anti-clockwise. Insert the depth gauge through hole in handle. Slide the depth gauge to required depth and tighten fully.

3. **INSERTING A TOOL INTO CHUCK** (See Fig. C1, C2, C3)
   **KEY CHUCK (1) (WX312)**
   Remove chuck key from key storage tab at base of drill handle, place key into chuck, turn key anti-clockwise to undo/loosen chuck, inset drill/tool and firmly tighten chuck by turning key clockwise. Remove key and replace in storage tab at base of drill handle. (See Fig. C1)
KEYLESS CHUCK (9) (WX312.1)
First pull the locking sleeve (a) backward until you hear a “click” sound. Then, while holding the locking sleeve, rotate and loosen the front section of the chuck to open the chuck jaws. Insert the drill bit into the chuck jaws, and while holding the locking sleeve, rotate and tighten the front section in the opposite direction. Ensure that the drill bit is in the center of the chuck jaws. Finally, push the locking sleeve forward until you hear a “click” sound. Your drill bit is now locked in the chuck. (See Fig. C2,C3)

4. ON/OFF SWITCH
Depress the switch to start the tool and release it to stop your tool.

5. SWITCH LOCK-ON BUTTON (See Fig. D)
Depress on/off switch then lock-on button, release on/off switch first and lock-on button second. Your switch is now locked on for continuous use. To switch off your tool just depress and release the on/off switch.

6. VARIABLE SPEED CONTROL (See Fig. E)
Adjust the variable speed control to increase or decrease the speed according to the material and accessory to be used (also possible during no load operation). Low speed will provide low torque and high speed gives higher torque.
7. FORWARD AND REVERSE ROTATION CONTROL (See Fig. F)
For drilling use forward rotation marked “<” (lever is moved to the left). Only use reverse rotation marked “>” (lever is moved to the right) to remove screws or release a jammed drill bit.

**NOTE:** Never move the forward/reverse switch whilst the drill in operation or the on/off switch is locked as this will damage the drill.

8. HAMMER OR DRILLING CONTROL (See G)
When drilling masonry and concrete push the drill/impact action selector switch into the hammer position “★”. When drilling wood, metal, plastic push the switch into the drill position “★”. 
WORKING HINTS FOR YOUR DRILL

1. Drilling masonry and concrete
Select the drill/impact action selector switch to the “hammer symbol” position. Tungsten carbide drill bits should always be used for drilling masonry, concrete etc with a high speed.

2. Drilling steel
Select the drill/impact action selector switch to the “drill symbol” position. HSS drill bits should always be used for drilling steel with a lower speed.

3. Pilot holes
When drilling a large hole in tough material (i.e. steel), we recommend drilling a small pilot hole first before using a large drill bit.

4. Drilling tiles
Select the drill/impact action selector switch to the “drill symbol” position to drill the tile. When tile has been penetrated, switch over to “hammer symbol” position.

5. Cool the motor
If your power tool becomes too hot, set the speed to maximum and run no load for 2-3 minutes to cool the motor.

MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

TROUBLESHOOTING

1. If your power tool does not start, check the plug on the power supply first.
2. If the drill doesn’t work properly, check the drill bit for sharpness, replace drill bit if worn. Check that the drill is set to forward rotation for normal use.
3. If a fault can not be rectified, return the tool to an authorized dealer for repair.