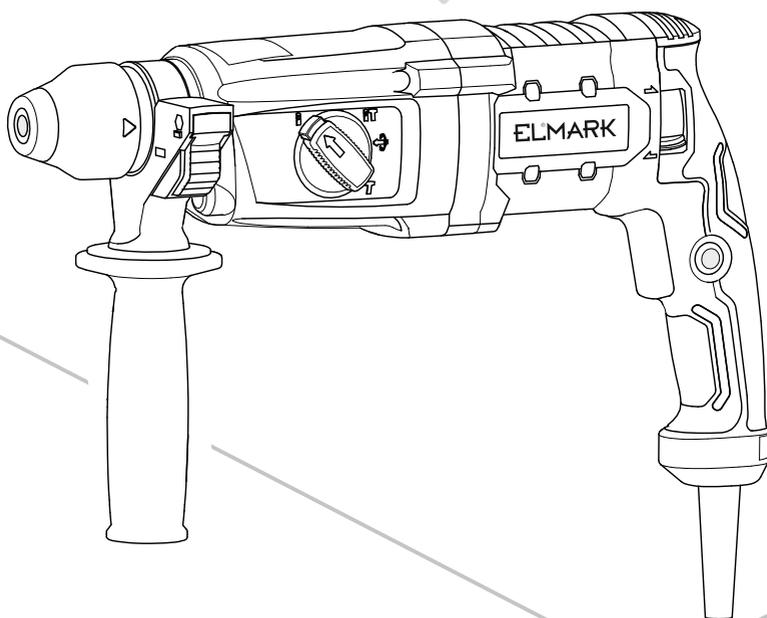


ELMARK[®]
The Brand of Electricity

Rotary Hammer

Model 59513



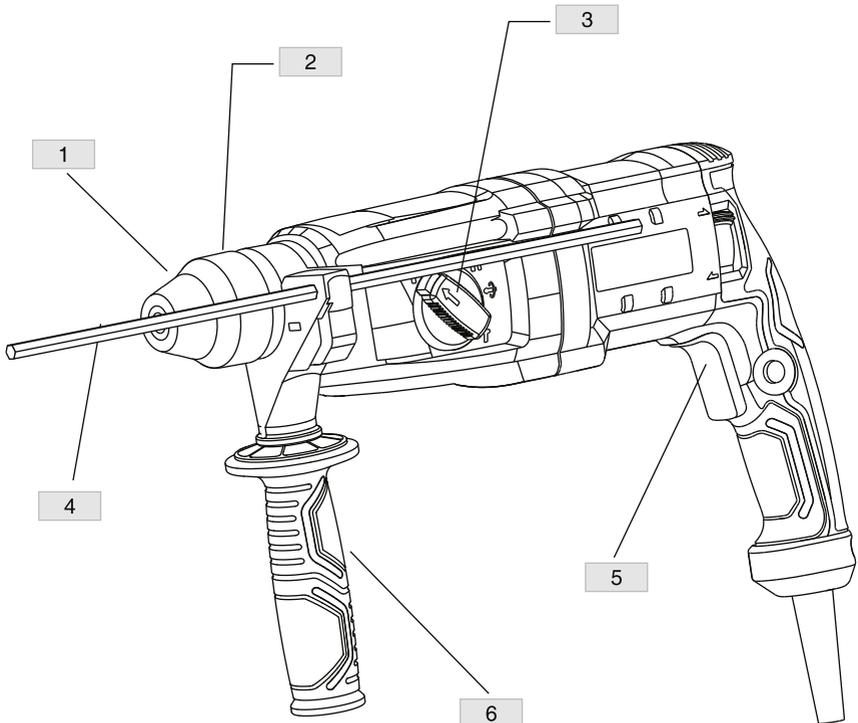
DESCRIPTION OF THE TOOL

OPERATING CONTROL



The machine is professional tool. It is intended for hammer drilling in concrete, brick and stone as well as for light chiseling work. It is likewise suitable for drilling without impact in wood, metal, ceramic and plastic.

1. MAIN PARTS



- 1.Dust Cap
- 2.Plastic sleeve
- 3.Operating mode selector knob
- 4.Guide ruler
- 5.Trigger
- 6.Auxiliary handle

2、 TOOL SPECIFICATIONS

| Model | 59513 |
|----------------------------|----------|
| Rated voltage(V) | 220-240 |
| Frequency(Hz) | 50/60 |
| Input power(W) | 800 |
| No load speed(r/min) | 0-1400 |
| Impact rate(BPM) | 0-5700 |
| Single stroke power(J) | 3.2 |
| Max. drilling Concrete(mm) | 26 |
| Tool holder | SDS-plus |
| Protect grade | II/II |
| Insulated grade | E |

NOTE:

1: Due to ELMARK's continuing program of development, the specifications herein are subject of change without prior notice.

2.The values given are valid for nominal voltages [U] of 220 V. For lower or higher voltages and models for specific countries, these values can vary.

GENERAL SAFETY RULES

⚠ WARNING: Read all warning and instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

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

1.WORK AREA SAFETY

1)Keep your work area clean and well lit. Cluttered or dark areas invite accidents

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

3)Keep children and bystanders away while operating a power tool. Distractions may cause you to lose control.

2.ELECTRICAL SAFETY

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

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

3) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

4) Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep the cord away from heat, oil, sharp edge, or moving parts. Damaged or entangled cords increase the risk of electric shock.

5) 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.

6) 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

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

2) Use safety equipment. Always wear eye protection. Safety equipment, such as dust mask, non-skid safety shoes, hard hat, and hearing protection, when used for appropriate conditions, will reduce personal injuries.

3) Avoid accidental starting. Make sure that the

switch is in the "OFF" position before plugging the tool into an electrical outlet. Carrying power tools with your finger on the switch or plugging in power tools that have the power switch "ON" invites accidents.

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

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

6) Dress properly. Do not wear loose clothing or jewelry. Keep your clothing, gloves, and hairs away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

7) If devices are provided for the connection of dust extraction and collection facilities, make sure that these are connected and properly used. Use of these devices can reduce dust-related hazards.

8) Use clamps or another practical way to support and secure the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

9) Do not use on a ladder or unstable support. Stable footing on a solid surface enables better control of the power tool in unexpected situations.

10) Keep handles dry, clean, and free from oil and grease. Slippery hands cannot safely control the power tool.

11) Always wear safety glasses with side shields. Everyday glasses may have impact resistant lenses, but they are not safety glasses. Following this rule will reduce the risk of eye injury.

12) Protect your lungs. Wear a face or dust mask if the operation is dusty. Following this rule will reduce the risk of serious personal injury.

13) Protect your hearing. Wear hearing protection during extended periods of operation. Following this rule will reduce the risk of serious person injury.

4. POWER TOOL USE AND CARE

1) 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.

2) 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.

3) 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.

4) 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.

5) 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.

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

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

8) Save these instructions. Refer to them frequently and use them to instruct others who may use this tool. If you lend this tool to someone else, also lend them these instructions.

5. SERVICE

1) Have your power tool serviced by a qualified repair person.

2) When servicing a power tool, use only identical replacement parts.

3) Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of shock or injury.

ADDITIONAL SAFETY RULES FOR ROTARY HAMMER

1. Place the cord in rear of the tool, and keep it far from the saw piece.

2. Clamp work piece securely with clamping devices or a vise.

3. Swear hearing protection. Exposure to noise will cause hearing damage.

4. Operate the machine only with the auxiliary handle supplied. Missed operation will cause bodily harm.

5. If there is considerable vibration or other defects are detected in operation, stop the machine immediately and check the machine to determine the cause. Hold the insulated handle surface.

6. Hold your hammer drill firmly in both hands.

7. Do not force your hammer drill, it will do a better and safer job at the speed for which it was designed.

8. Hold tool by insulated gripping surfaces when performing an operation where the hammer drill may contact hidden wiring or its own cord.

9. Wear gloves when handling hammer bits and tool. Hammer bits and tools get hot during operation.

Gloves and frequent rest periods will reduce risk of vibration damage to hands and arms.

10. Use suitable detectors to find hidden electric cables or gas and water pipes.

11. Sawdust and splinters must not be removed while the machine is running.

12. Do not pierce the motor housing as this could damage the double insulation

13. Ensure that ventilation openings are kept clear when working in dusty conditions.

14. Do not operate the tool for long time, or the quiver of the machine will hurt hands or arms.



WARNING: Some dust created by power Cutting contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Arsenic and chromium from chemically reacted lumber.

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.

STANDARD ACCESSORIES

- | | |
|--------------------|-----|
| ● Depth gauge | 1PC |
| ● Auxiliary handle | 1PC |
| ● Point chisel | 1PC |
| ● Flat chisel | 1PC |
| ● SDS drill bits | 3PC |

Be sure to check the accessories as it is subject to change by areas and models.

OPERATION

1. POWER SUPPLY

The power tool supply must match the nameplate date.

2. AUTOMATIC SAFETY CLUTCH.

Protects the operator and machine from the high reverse torque, which develops if the tool jams all of a sudden.

3. INSTALLING THE AUXILIARY HANDLE

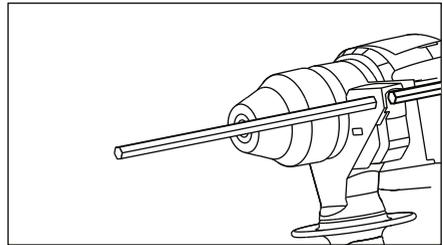
Unplug the tool from the mains socket, firstly. Release the auxiliary handle clamping band by turning the handle in a counter-clockwise direction. Then fit the handle band over the chuck and onto the cylindrical section at the front end of the tool. Pivot the auxiliary handle into the desired position. Finally, tighten the handle securely to prevent inadvertent movement.

WARNING: Use the auxiliary handle supplied. Missed operation will cause bodily harm.

4. SELECTION OF TOOLS

For hammer drilling, SDS-plus tools are necessary that are inserted into the SDS drill chuck of the machine.

For drilling in steel or wood, tools without SDS-plus (e.g., drills with cylindrical shafts) are used. For these tools, a special drill chuck is required (see APPLICATIONS).



5. INSERTING/REMOVING SDS-PLUS TOOL

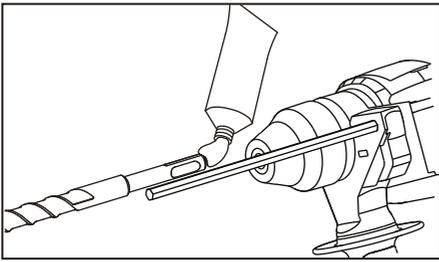
The SDS-plus tool is designed to be freely movable. This causes eccentricity when the machine is not loaded. However the drill automatically centers itself during operation. This does not affect drilling precision.

WARNING: Take care when changing tools that the dust cap is not damaged.

1) Inserting:

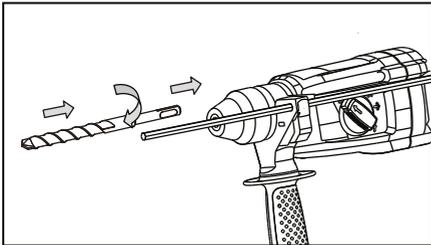
WARNING: Grease the shank end of the tool regularly.

(1) Clean the tool before inserting and lightly grease the insertion end.



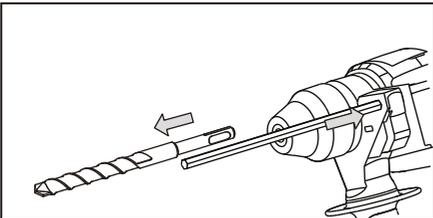
(2) Insert the tool with a twisting motion into the tool holder until it locks.

(3) The tool locks itself. Check the locking by pulling on the tool.



2) Removing:

Pull the plastic sleeve to the rear, hold it in this position and remove the tool from the tool holder.



6. INSERTING/REMOVING TOOL HOLDER

(1) Removal

Set the operating mode selector knob temporarily to the "Chiseling" position (drill spindle locked).

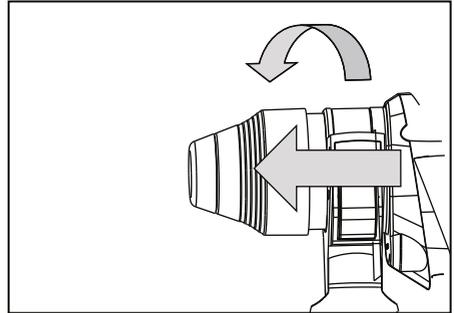
Turn the plastic sleeve firmly counterclockwise to the stop and pull off the tool holder.

(2) Mounting

Place the tool holder on the drill spindle.

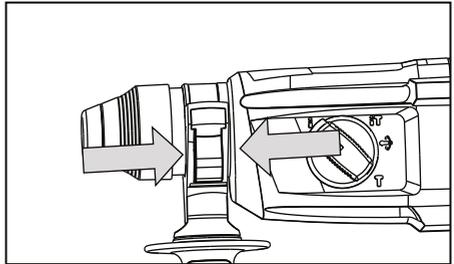
Turn the plastic sleeve counterclockwise (to the left)

and simultaneously press back firmly until the tool holder latches and locks. Ensure that the tool holder sits tightly.



7. SETTING THE GUIDE RULER

Release the auxiliary handle clamping mechanism by turning the handle in a counterclockwise direction. Pivot the auxiliary handle into the desired position. Adjust the guide ruler to the desired drilling depth "X". Tighten the auxiliary handle securely by turning the handle in a clockwise direction.

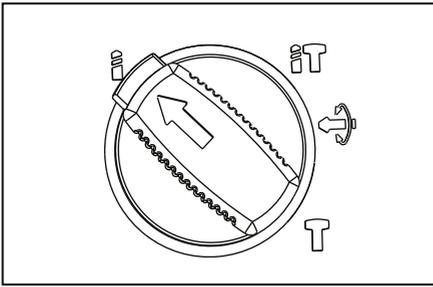


8. SET THE OPERATING MODE

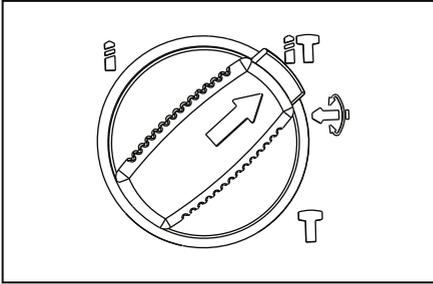
With the operating mode selector knob, select the operating mode of the machine. To change the operating mode, turning the operating mode selector knob to the desired position until you hear "click" to latch.

⚠ WARNING: Change the operating mode only when the machine is switched off! Otherwise, the machine can be damaged.

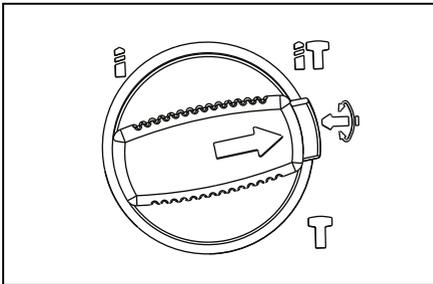
● For drilling in steel or wood, for tighten the screws.



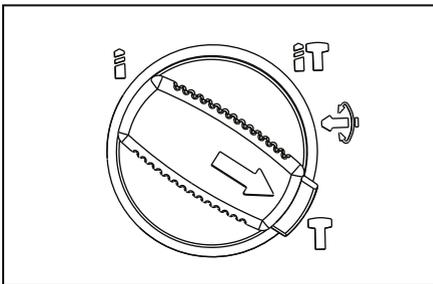
- For hammer drilling in concrete or stone.



- Non-working position used only to rotate a flat chisel into the desired position.



- For light chipping and chiseling applications. In this mode the tool can also be used as a lever to free a jammed drill bit.



9. TRIGGER CONTROLS

⚠ WARNING: To make sure you can control the switch freely and keep it off before plugging drill.

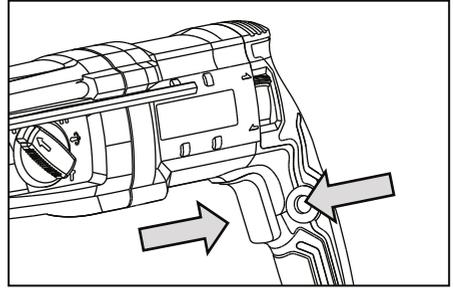
1) Intermittence work:

Start : Press the trigger (5)

Stop : Release the trigger (5)

2) To vary the drilling speed:

Simply increase or decrease pressure on the trigger (5). The further the trigger is pressed, the greater the drilling speed.



Reduced speed of the machine facilitates the starting of holes (e.g., on smooth surfaces such as tiles), prevents the slipping of drill and the splintering of the drilled hole.

Recommended Speed Ranges:

- High speed for hammer drilling and chiseling in concrete or stone.
- Medium speed for drilling in metal
- Low speed for tighten the screws.

APPLICATIONS

⚠ WARNING: To reduce the risk of explosion, before any work check the utility lines electricity, gas or water supply line are hidden in the work area.

⚠ WARNING: When working at low temperatures:

The hammering mechanism begins to operate only when the tool has reached a minimum operating temperature.

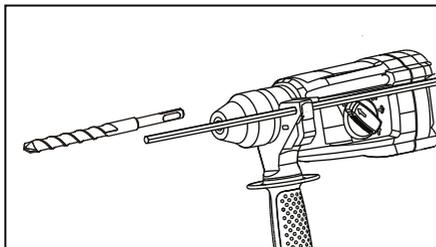
Press the tip of the hammer bit briefly against the work surface while the tool is running. Repeat this procedure if necessary until the hammering reaches the minimum operating temperature.

1. Hammer drilling

⚠ WARNING: Do not use tools without SDS-plus for hammer drilling!

Tools without SDS-plus and their holder and drill chuck would be damaged by hammer drilling.

When working with tool without SDS-plus, set the operating mode selector knob to position “”.



2. Drilling

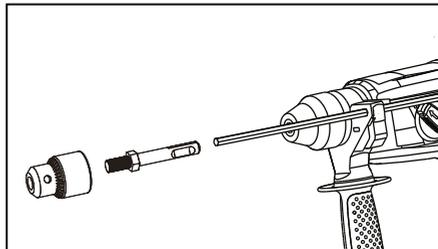
⚠ WARNING: To work with tools without SDS-plus (e.g., drill with cylindrical shafts), a suitable drill chuck must be used.

Screw the SDS-plus adapter shaft (accessory) into a ring-gear or quick clamping drill chuck. Clean the adapter shaft and lightly grease the insertion end before inserting.

Insert the shaft of the assembled drill chuck with a twisting motion into the tool holder until it can be heard to lock.

The adapter shaft locks itself. Check the locking by pulling on drill chuck.

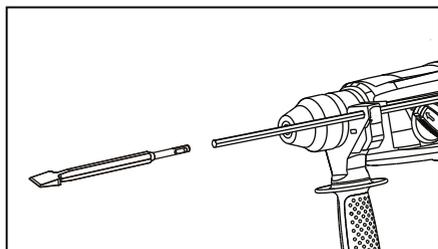
To remove the drill chuck, pull the plastic sleever to the rear, hold in this position and remove the drill chuck from the tool holder.



⚠ WARNING: Never use standard chucks in the Drilling mode.

3. Chipping and chiseling

Before inserting the chisel, set the operating mode selector knob to the “hammering only”  position. Insert the appropriate chisel. To adjust the head of the chisel to the desired angle, set the operating mode selector knob to the “bit rotation”  position and rotate the chisel by hand. Return the mode selector to the “hammering only”  position. Adjust the auxiliary handle as required. Start on the trigger of tool and start working. Hold the tool firmly with both hands, Turn the tool on and apply slight pressure on the tool so that the tool will not bounce around, uncontrolled. Pressing very hard on the tool will not increase the efficiency.



TOOL MAINTENANCE



WARNING: Before any work on the machine itself, pull the power plug.

1) Inspect the diamond cutting discs. The diamond cutting disc damaged or worn out will cause motor malfunction and affect the cutting efficiency, so suggest to replace the diamond cutting disc periodically.

2) Inspect tool cords periodically. The cord is special prepared, if damaged, have repaired at your nearest Authorized **ELMARK** Service Center. This tool was used with the power cord as a particular structure, don't replace the power cord without authorization, such as replacement, please go to the Authorized **ELMARK** Service Center.

3) Keep the vents clean. Clean all parts of the tool, clean dust periodically. To prevent debris from entry.

4) Replace the carbon brush when the carbon brush is worn out in certain length and motor stops running. All maintenance should be carried Out by Authorized **ELMARK** Service Center.

5) All service **MUST** only be performed by Authorize **ELMARK** Service Center. **ALWAYS** use only **ELMARK** accessories that are recommended for this tool.

6) Cleaning. Avoid the use of plastic cracks caused by damage to the solvent. Use clean cloths and mild soap to remove dirt, dust, etc.

7) Avoid the tool vibration or impact, and keep it from oil and grease.

 **WARNING:** Do not allow the water enter the motor and the tool full immersed in the ware, which will result in motor malfunction and electric shock.

ENVIRONMENT PROTECTION



1.Tool, accessories and packaging should be sorted for environment-friendly recycling.

2.Power tools and accessories at the end of their service life still contain large amounts of valuable raw materials and plastics which can likewise be fed back into a recycling process.

3.Some dust created by working contains harmful chemicals must be collected by special garbage recycle site.

Trouble shooting

| PROBLEMS | REASONS | WAYS TO SOLVE THE PROBLEMS |
|---|---|--|
| 1. The motor stops running | 1. Unconnected to power source | 1. Connect to power source |
| | 2. Plugs not fully connect | 2. Check all plugs |
| | 3. Switch out of work | 3. Replace or repair the switch |
| | 4. Brushes not touch the commutator | 4. Replace the brushes with two new ones |
| 2. Running slowly (Not running)with the noise at the beginning of power turn-on | 1. Switch out of work | 1. Replace or repair the switch |
| | 2. Mechanical trouble | 2. Check mechanical parts |
| 3. Commutator sparkle | 1. Armature short circuit | 1. Repair the armature |
| | 2. Poor connection between the brush and the commutator | 2. Replace it with a new one |
| | 3. Commutator surface not smooth | 3. Clean the commutator surface |
| 4. Running slowly with the noise in process of working | 1. Wrong drill bit size or type | 1. Change dill bite size or type |
| | 2. The dill bit contacts hidden steel | 2. Choose other drill area to avoid contact hidden steel |
| | 3. Too much lubrication | 3. Reduce the amount of lubrication |

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