# TOOLMAN LT3127 Rotary Tool Hammer Instruction Manual



**LT3127 Rotary Tool Hammer**
**Instruction Manual**

**WARNING:**
For your personal safety, READ and UNDERSTAND before using.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

Contents



## GENERAL SAFETY RULES

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

SAVE THESE INSTRUCTIONS

**Work area**
a) Keep the work area clean and well-lit. Cluttered benches and 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 that may ignite dust or fumes.
c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

**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 the 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. The use of a cord suitable for outdoor use reduces the risk of electric shock.

**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 safety equipment. Always wear eye protection. Safety equipment such as dust masks, non-skid safety shoes, hard hats, or hearing protection used for appropriate conditions will reduce personal injuries.
c) Avoid accidental starting. Ensure the switch is in the off-position before plugging in. Carrying power tools with your finger on the switch or plugging in 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 jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, 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. The use of these devices can reduce dust-related hazards.

**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 at which it was designed.
b) Do not use the power tool if the switch does not turn 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 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 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.

**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.

## SPECIFIC SAFETY RULES

1. Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or it own cord. Contact with a “live” wire will make exposed metal parts of the tool “live” and shock the operator. Do not drill, fasten or break into existing walls or other blind areas where electrical wiring may exist. If this situation is unavoidable, disconnect all fuses or circuit breakers feeding this worksite.
2. Wear ear protectors when using the tool for extended periods. Prolonged exposure to high-intensity noise can cause hearing loss.
3. Use a metal detector to determine if there are gas or water pipes hidden in the work area or call the local utility company for assistance before beginning the operation. Striking or cutting into a gas line will result in an explosion. Water entering an electrical device may cause electrocution.
4. Always use the side handle for maximum control over torque reaction or kick-back. Never attempt to operate this tool with one hand. The slip clutch engages if you firmly control the tool during a torque reaction or kickback.
5. Always wear safety goggles or eye protection when using this tool. Use a dust mask or respirator for applications that generate dust. Safety goggles or eye protection will help deflect fragments of the material that may be thrown toward your face and eyes. Dust generated or gases released from the material you are cutting (i.e. asbestos insulated pipes, radon) may cause respiratory difficulties.
6. 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.
7. Position the cord clear of the rotating bit. Do not wrap the cord around your arm or wrist. If the cord becomes entangled with the spinning bit it could entrap you causing serious personal injury.
8. Position yourself to avoid being caught between the tool or side handle and walls or posts. Should the bit become bound or jammed in the work, the reaction torque of the tool could crush your hand or leg.
9. 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 hammer body will tend to twist in the opposite direction as the bit is rotating. (Note use only if your tool has reversing feature.)

10. Do not strike the bit with a handheld hammer or sled hammer when attempting to dislodge a bound or jammed bit. Fragments of metal from the bit could dislodge and strike you or bystanders.
11. Never place the tool down until the bit or accessory has come to a complete stop. 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. Do not run the tool while carrying it at your side. The spinning drill bit may become entangled with clothing and injury may result.
14. **WARNING:**

    Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contain 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.

    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.

**SAVE THESE INSTRUCTIONS**

**WARNING:**

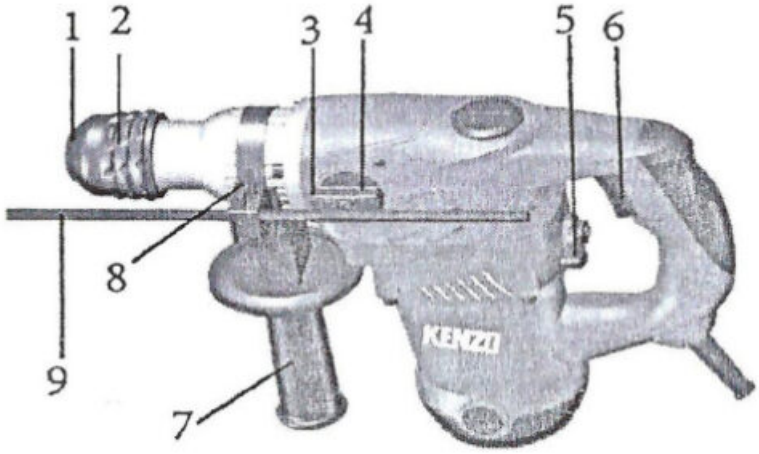
MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

## Functional Description and Specifications

**WARNING:**

- Disconnect the plug from the power source before making any assembly, adjustments, or changing accessories. Such preventive safety measures reduce the risk of starting the tool accidentally.

FIG.1




| | |
|---|---|
| 1 Dust cap | 6 On/Off switch |
| 2 Locking sleeve | 7 Auxiliary handle |
| 3 Release button | 8 Clamp screw |
| 4 Mode selector switch (drill stop) | 9 Depth gauge |
| 5 Mode selector switch (chisel stop) | |

**Technical Data**

| | | |
|---|---|---|
| Power supply | | 110/120V-50/60Hz |
| Power input | | 14A |
| No-load speed | | 730RPM |
| Impact rate | | 4000 /min |
| Impact energy per stroke | | 4. OJ |
| Protection class | | II |
| Tool holder | | SDS-plus |
| Capacities | Concrete | 32mm |
| | Steel | 13mm |
| | Wood | 40mm |
| Length of cable | | 2.5m |
| Overall length | | 230mm |
| Net weight | | 6.0kgs |
| LpA: (Sound pressure level) | | 95. 0 dB(A) |
| LwA: (Sound power level) | | 106. OdB(A) |
| Aw: (Vibration level) | | 18. 574m/s2 |

**Intended Use**
The tool is intended for hammer drilling in concrete, brick, and stone as well as for light chiseling work. It is also suitable for drilling without impact in wood, metal, ceramic, and plastic.

**Switching On and Off**

 **WARNING:**

- Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the “OFF” position when released.

FIG.2


To **start** the tool, press the On/Off switch **6** and keep it depressed.
To **switch off** the tool, release the On/Off switch **6.**
For low temperatures, the tool reaches the full hammer/impact capacity only after a certain time.
This start-up time can be shortened by striking the drill/chisel against the floor one time.

**Overload Clutch**

If the tool insert becomes caught or jammed, the drive to the drill spindle is interrupted. Because of the forces that occur, always hold the power tool firmly with both hands and provide a secure stance.
If the power tool jams, switch the tool off and loosen the tool insert. When switching the tool on with the drilling tool jammed, high reaction torques can occur!

**WARNING:**

- As soon as the power tool jams, switch the tool off immediately.

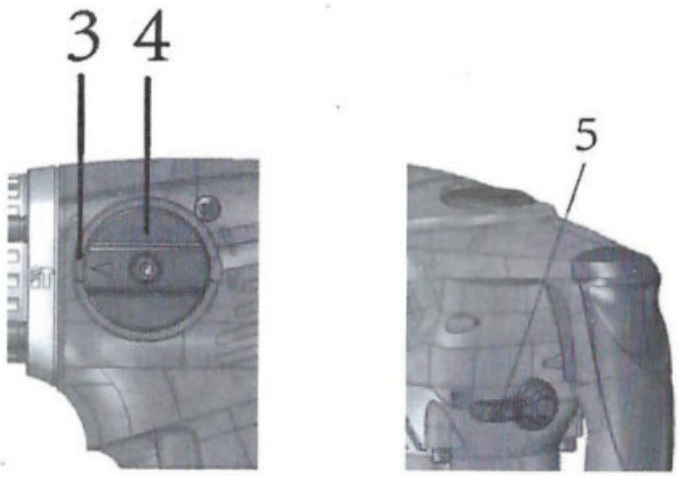
  This will help prevent premature wear of the tool.

**Mode Selector Switch**

Operate the mode selector switch only when the tool is at a standstill. This will help prevent premature wear of the tool.

Hammer drilling
For drilling in concrete, masonry, etc., depress the release button 3 and rotate the mode selector switch 4 so that the pointer points to the symbol . Rotate the mode selector switch 5 so that it points to the symbol Use a tungsten-carbide tipped bit.

FIG.3

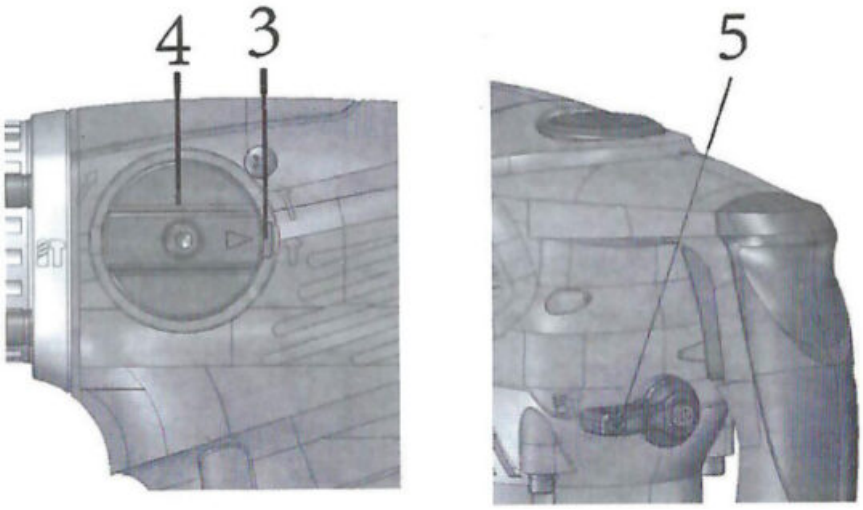



Chiseling
For chipping, scaling or demolition operations, depress the release button 3 and rotate the mode selector switch 4 so that the pointer points to the symbol . Rotate the mode selector switch 5 so that it points to the symbol . Use a bull point, cold chisel, scaling chisel, etc.

**WARNING:**

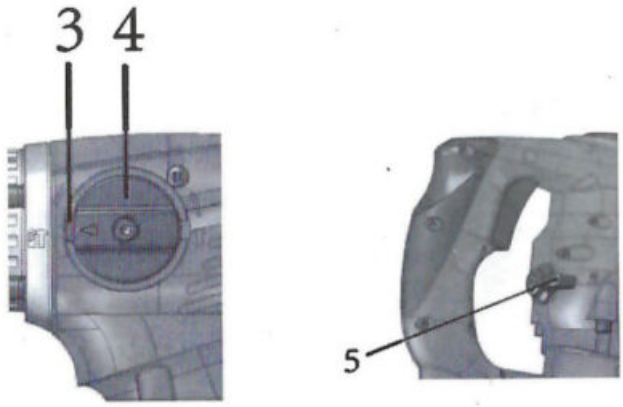
- The mode selector switch 4 must always be locked in the “Chiselling” position when chiseling.

FIG.4




**Drilling**
For drilling in wood, metal, or plastic materials, depress the release button 3 and rotate the mode selector switch 4 so that the pointer points to the symbol . Rotate the mode selector switch 5 so that it points to the symbol . Use a twist drill bit or wood bit.

FIG.5




## Assembly

**WARNING:**

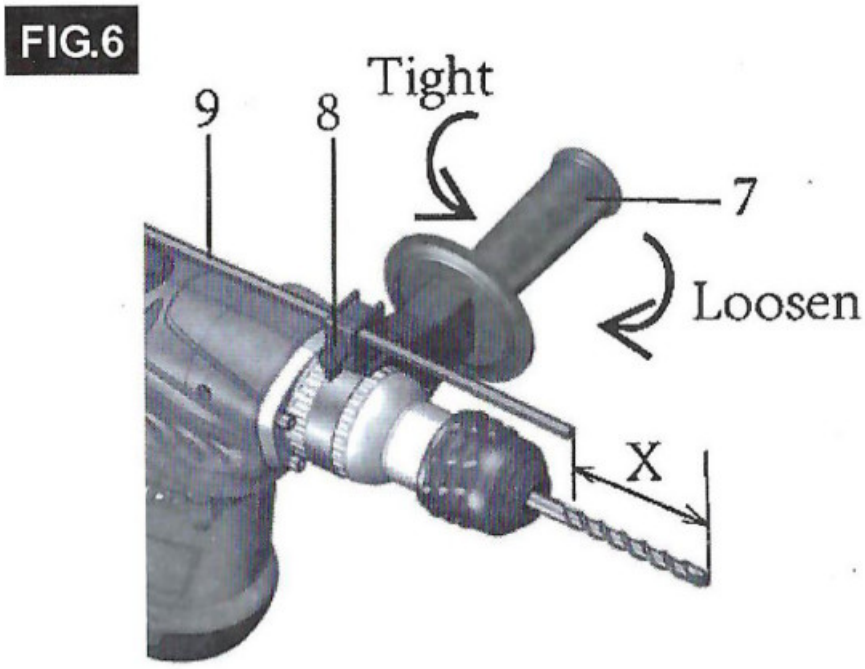
- Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

### Auxiliary handle

**WARNING:**

- Always use the auxiliary handle to ensure operating safety when drilling in concrete, masonry, etc.
- When the bit begins to break through concrete or if the bit strikes reinforcing rods embedded in concrete, the tool may react dangerously. Maintain good balance and safe footing while holding the tool firmly with both hands to prevent dangerous reactions.

The auxiliary handle swings around to either side, allowing easy handling of the tool in any position. Loosen the auxiliary handle 7 by turning it counterclockwise, swing it to the desired position and then tighten it by turning clockwise.




**Depth gauge (see fig.6)**

The depth gauge 9 is convenient for drilling holes of uniform depth.
Insert the depth gauge into the hole in the grip base. Adjust the depth gauge to the desired depth and then tighten the clamp screw 8 to secure the depth gauge.
**Note:** The depth gauge cannot be used at the position where the depth gauge strikes against the tool body.

**Bit grease**
Coat the bit shank head beforehand with a small amount of bit grease (about 0.5 -1 g; 0.02 – 0.04 oz.). This chuck lubrication assures smooth action and longer service life

**Changing the bit**
**Before any work on the tool itself, pull the mains plug.**
With the SOS-plus tool holder, simpler and easier tool changing is possible without additional aides.
Dust cap 1 largely prevents the entry of drilling dust into the tool holder during operation. When inserting the tool, take care that the dust cap 1 is not damaged.
**A damaged dust protection cap should be changed immediately.**
We recommend having this carried out by an after-sales service.

**Inserting the bit (see fig.7)**
Clean and lightly grease the shank end of the tool.
Push back the locking sleeve 2 and Insert the bit in a twisting manner into the tool holder until it locks itself.
After installing, always make sure that the bit is securely held in place by trying to pull it out.
**Removing the bit ( see fig.8)**
Push back the locking sleeve 2 all the way and pull the bit out.

FIG.7

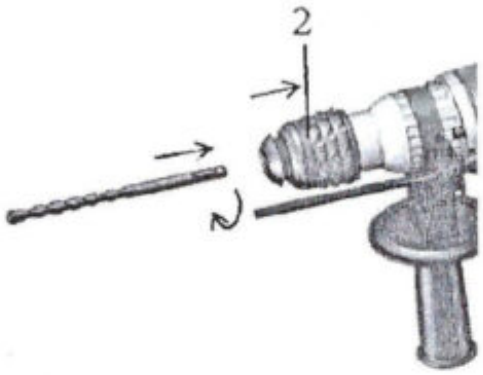
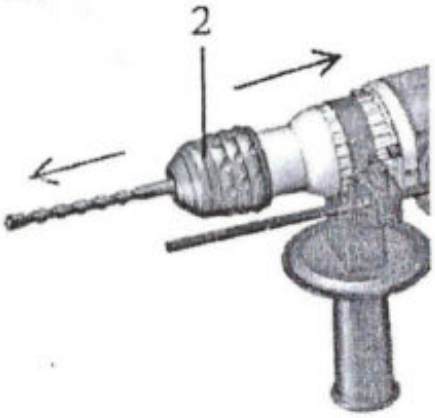
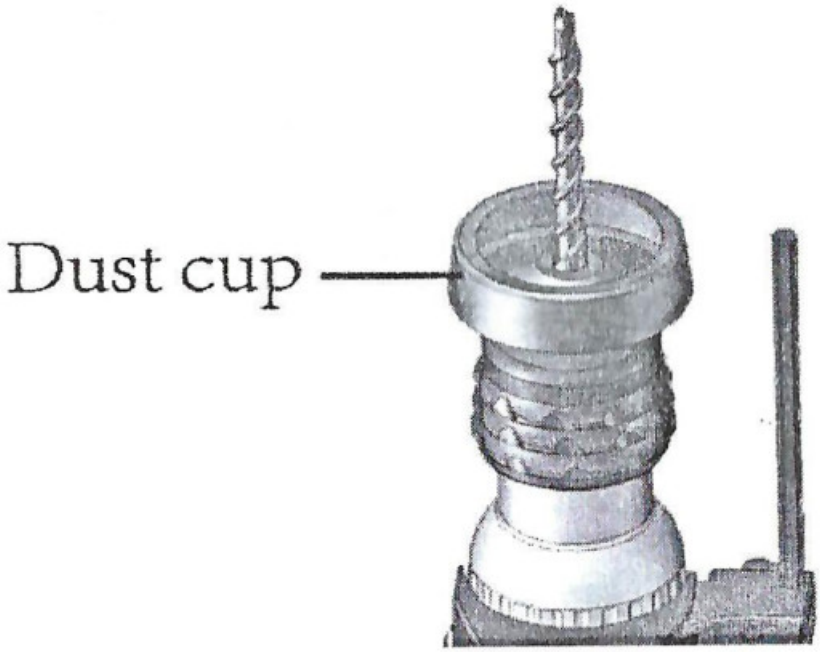



FIG.8




**Dust cup**
se the dust cup to prevent dust from falling over the tool and on yourself when performing overhead drilling operations.

FIG.9




**Hammer drilling operation**
First set the mode selector switch 4 and the mode selector switch 5 to the position shown in figure 3.
Position the bit at the desired location for the hole, then pull the switch trigger. Do not force the tool. Light pressure gives the best results.
Keep the tool in position and prevent it from slipping away from the hole.
Do not apply more pressure when the hole becomes clogged with chips or particles. Instead, run the tool at an idle, then remove the bit partially from the hole. By repeating this several times, the hole will be cleaned out and normal drilling may be resumed.

⚠**WARNING:**

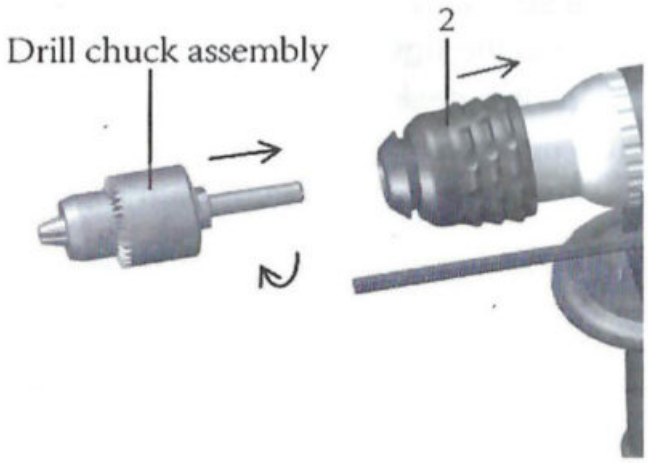
- There is a tremendous and sudden twisting force exerted on the tool/bit at the time of hole break-through, when

the hole becomes clogged with chips and particles, or when striking reinforcing rods embedded in the concrete. Always use the auxiliary handle and firmly hold the tool by both the auxiliary handle and switch handle during operations. Failure to do so may result in the loss of control of the tool and potentially severe injury.

**Chiseling operation**
First set the mode selector switch 4 and the mode selector switch 5 to the position shown in figure 4.
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 efficiency.

**Drilling operation**
First set the mode selector switch 4 and the mode selector switch 5 to the position shown in figure 5.
Use the drill chuck assembly, you can drill up to 13 mm (1/2) diameter in metal and up to 40 mm (1-9/16″) diameter in wood.

FIG.10




**WARNING:**

- Never use “Hammer drilling” when the drill chuck assembly is installed on the tool. The drill chuck assembly may be damaged.
- Pressing excessively on the tool will not speed up the drilling. In fact, this excessive pressure will only serve to damage the tip of your bit, decrease the tool performance and shorten the service life of the tool.
- There is a tremendous twisting force exerted on the tool/ bit at the time of hole breakthrough. Hold the tool firmly and exert care when the bit begins to break through the workpiece.
- Always secure small workpieces in a vise or similar hold-down device.

## Maintenance

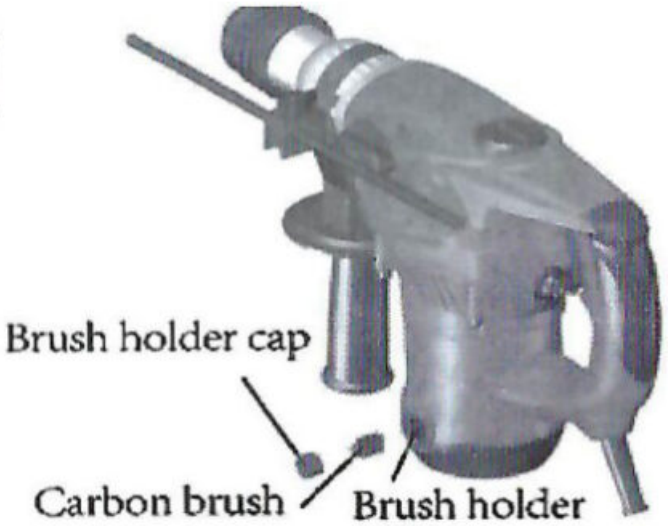
**WARNING:**

- Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.
- For safe and proper working, always keep the tool and ventilation slots clean.
- The tool may be cleaned most effectively with compressed dry air.
  Always wear safety goggles when cleaning tools with compressed air.

- 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 and commutator in your tool have been engineered for many hours of dependable service. To maintain peak efficiency of the motor, we recommend every two to six months the brushes be examined.
- A damaged dust cap should be changed immediately. We recommend having this carried out by an after-sales service.
- Store the tool, operating instructions, and where necessary the accessories in the original packaging. In this way, you will always have all the information and parts ready to hand.

**Changing the carbon brushes (see fig.11)**
Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones, and secure the brush holder caps.

FIG.11



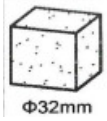

## Service

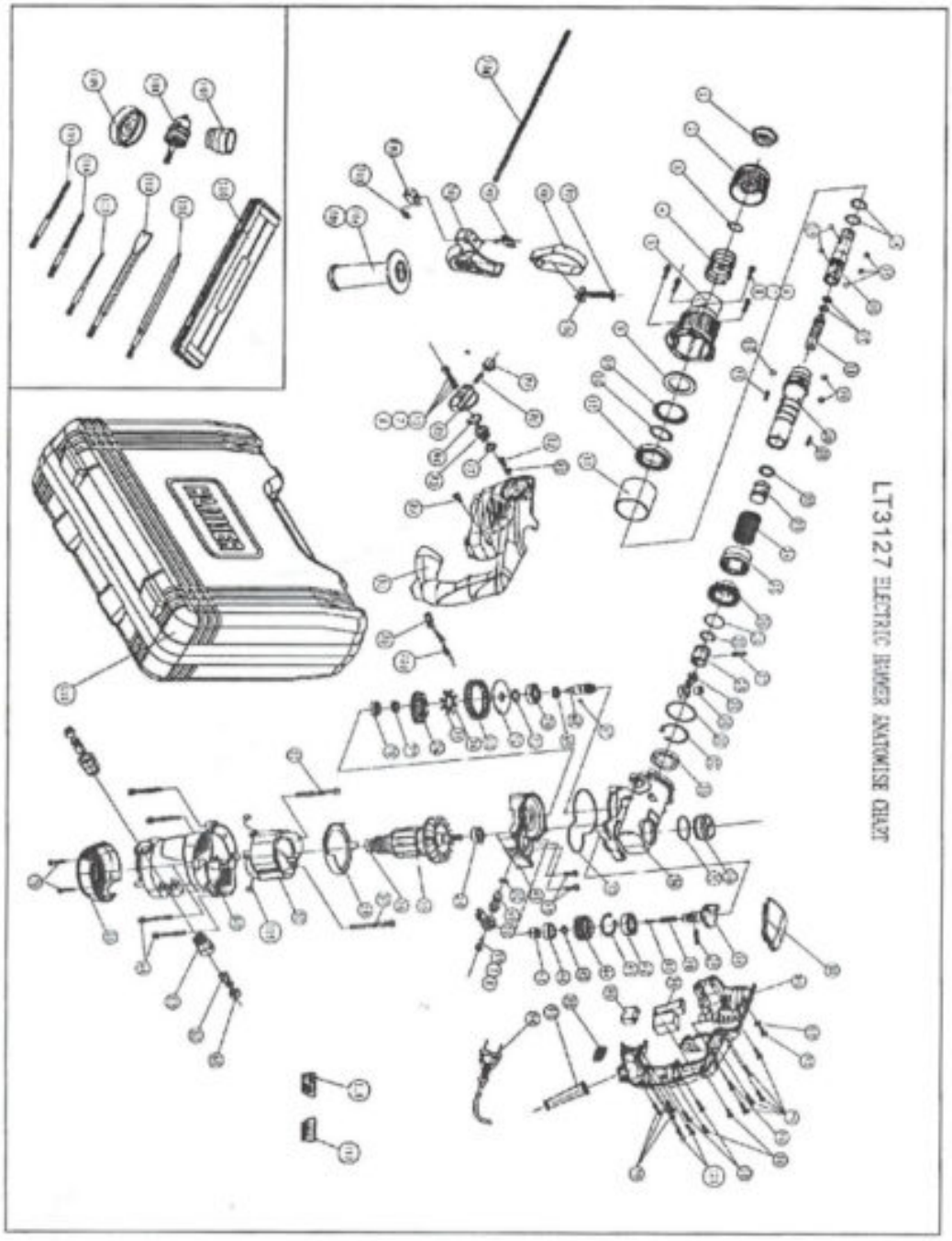
To maintain product SAFETY and RELIABILITY, repairs, and any other maintenance or adjustment should be performed by Factory Service Centers.

## Disposal

The tool, accessories, and packaging should be sorted for environmental-friendly recycling.

**Only for EC countries:**
Do not dispose of power tools into household waste! According to the European Guideline 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national rights, power tools that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

| | |
|---|---|
|  Wear ear defender |  hammer drilling |
|  Wear safety goggles |  Chiseling |
|  Wear a dust mask |  Drilling |
|  Double insulation |  Recycling |
|  EC-Declaration of conformity |   SDS-plus chuck |
|   Max. drilling capacity in concrete | |




**Parts List**

| ITEM | NAME | QTY |
|---|---|---|
| 1 | dust cap | 1 |
| 2 | steel wire retainer ring 181.7 | 1 |
| 3 | steel ball holder | 1 |
| 4 | spring 34×1.8×100 | 1 |
| 5 | cylinder case | 1 |
| 6 | hex type socket screw  M522 | 4 |
| 7 | flat washer 5 | 10 |
| 8 | spring washer 5 | 10 |

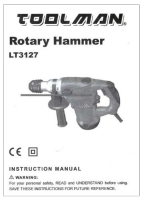
| | | |
|---|---|---|
| 9 | felt ring | 1 |
| 10 | washer | 1 |
| 11 | spring retainer ring 35 | 1 |
| 12 | bearing 61907 | 1 |
| 13 | distance ring | 1 |
| 14 | o ring 19.82.1 | 3 |
| 15 | steel ball 7.14 | 5 |
| 16 | rotate sheath | 1 |
| 17 | o ring 11×2 | 3 |
| 18 | jumper bar | 1 |
| 19 | steel ball 7.94 | 1 |
| 20 | cylinder | 1 |
| 21 | flat key 318 | 2 |
| 22 | o ring 18×3.1 | 2 |
| 23 | jump bit | 1 |
| 24 | spring | 1 |
| 25 | clutch | 1 |
| 26 | big angle gear | 1 |
| 27 | piston pin | 1 |
| 28 | piston | 1 |
| 29 | connecting rod | 1 |
| 30 | needle bearing HK1010 | 1 |
| 31 | o ring 59X2 | 1 |
| 32 | spring retainer ring 42 | 1 |
| 33 | oil-bearing | 1 |
| 34 | oil cap | 1 |
| 35 | o ring 37 .5×18 | 1 |
| 36 | gearbox | 1 |
| 37 | gasket ring | 1 |
| 38 | crankshaft | 1 |
| 39 | flat key 4.8×22 | 1 |

| | | |
|---|---|---|
| 40 | spring1 .2×7.8×32 | 1 |
| 1 | pin 820 | 1 |
| 42 | bearing 6003-27 | 1 |
| 43 | spring retainer ring35 | 1 |
| 44 | first gear | 1 |
| 45 | spring retainer ring 17 | 1 |
| 46 | supporting sleeve | 1 |
| 57 | needle bearing HK1208 | 1 |
| 48 | discal head bolt M4x12 | 2 |
| 49 | gearbox cover | 1 |
| 50 | o ring 12×2 | 1 |
| 51 | back knob pin | 1 |
| 52 | mode selector switch(chisel stop) | 1 |
| 53 | hex type socket screw M5x 14 | 2 |
| 54 | bearing 6001 | 1 |
| 55 | rotor | 1 |
| 56 | bearing 608 | 1 |
| 57 | self-threading screw ST4.8×50 | 2 |
| 58 | led wind ring | 1 |
| 59 | stator | 1 |
| 60 | motor casing | 1 |
| 61 | Brush Cap | 2 |
| 62 | Carbon Brush | 2 |
| 63 | Brush box | 2 |
| 64 | hex type socket screw M5x50 | 4 |
| 65 | tail cover | 1 |
| 66 | self-threading screw ST4x20 | 4 |
| 67 | flat key 3×10 | 1 |
| 68 | third gear | 1 |
| 69 | adjusting washer | 1 |

| | | |
|---|---|---|
| 70 | bearing 6002 | 1 |
| 71 | press washer | 1 |
| 72 | gear washer | 1 |
| 73 | second gear | 1 |
| 74 | spring | 8 |
| 75 | steel ball 5.5 | 8 |
| 76 | gear holder | 1 |
| 77 | special nut | 1 |
| 78 | bearing 627 | 1 |
| 79 | self-threading screw ST4x16 | 2 |
| 80 | cable hold down | 1 |
| 81 | left handle | 1 |
| 82 | discal head bolt M4x8 | 2 |
| 83 | pin-2 | 1 |
| 84 | spring retainer ring 18 | 1 |
| 85 | mode selector switch(drill stop) | 1 |
| 86 | spring4.5X0.6X20 | 1 |
| 87 | release button | 1 |
| 88 | ornamental cover | 1 |
| 89 | right handle | 1 |
| 90 | switch | 1 |
| 91 | capacitor | 1 |
| 92 | Inductor | 1 |
| 93 | cable sheath | 1 |
| 94 | cable plug subassembly | 1 |
| 95 | self-threading screw ST4x14 | 11 |
| 96 | self-threading screw ST4x10 | 2 |
| 97 | Square Bolt M8X47 | 1 |
| 98 | hoop | 1 |
| 99 | clamp screw | 1 |
| 100 | depth gauge | 1 |

| | | |
|---|---|---|
| 101 | grip base | 1 |
| 102 | Press-block | 1 |
| 103 | nut M6 | 1 |
| 104 | auxiliary handle | 1 |
| 105 | hexagonal nut MB | 1 |
| 106 | swab case | 1 |
| 107 | drill chuck | 1 |
| 108 | dust cup | 1 |
| 109 | bit case | 1 |
| 110 | chisel | 1 |
| 111 | shovel | 1 |
| 112 | aiguille 8150 | 1 |
| 113 | aiguille 10×150 | 1 |
| 114 | aiguille 12150 | 1 |
| 115 | carrying case | 1 |
| 116 | nameplate | 1 |
| 117 | scutcheon | 1 |
| 118 | junction spring | 1 |

## Documents / Resources

| | |
|---|---|
|  | TOOLMAN LT3127 Rotary Tool Hammer [pdf] Instruction Manual<br>LT3127 Rotary Tool Hammer, LT3127, Rotary Tool Hammer |