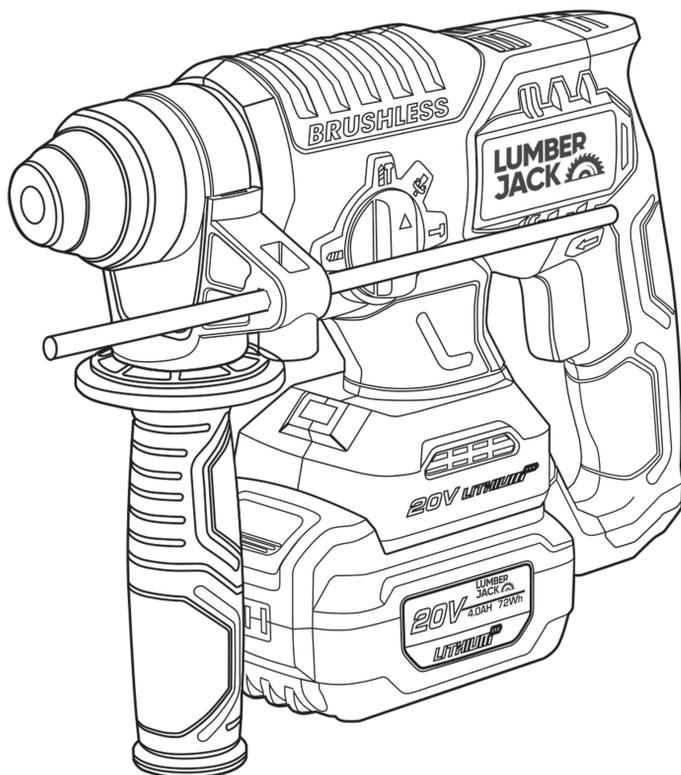


XP SERIES

LHD4750

**LUMBER
JACK** 

20V Hammer Drill



OPERATOR'S MANUAL



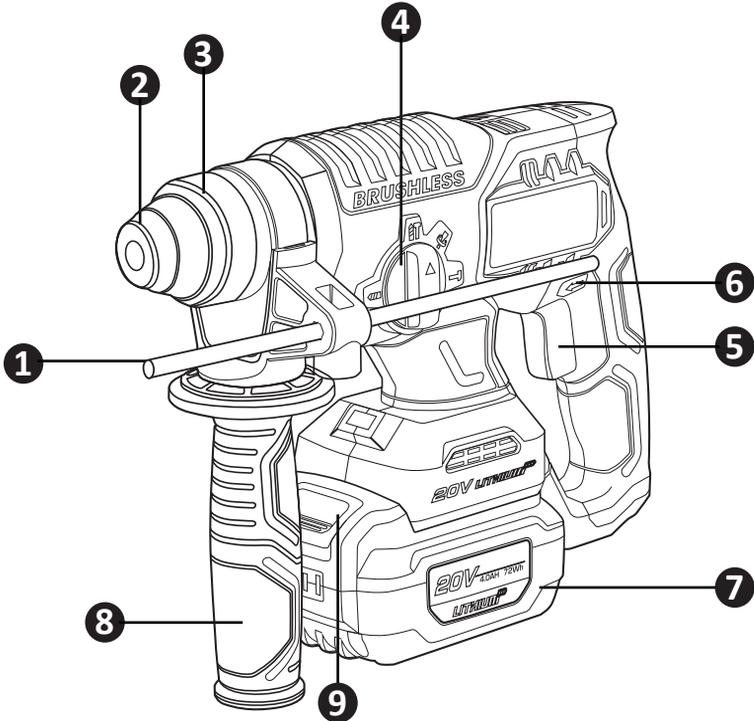
CE  **RoHS** 

OPERATING CONTROL



Read, understand and follow all safety rules and instructions before using this tool. Please keep this manual for future reference.

1. MAIN PARTS



1. Depth gauge
2. Dust prevention cap
3. Tool holder locking sleeve
4. Function mode selection switch
5. Trigger
6. Forward and reverse rotation control
7. Battery pack
8. Auxiliary handle
9. Battery pack release button

2、 TOOL SPECIFICATIONS

| Model | LHD4750 |
|--|--------------|
| Voltage(V _{oc}) | 20 |
| No load speed(min ⁻¹) | 0-1350 |
| Impact rate(BPM) | 0-4750 |
| Single stroke power(J) | 2.2 |
| Drilling capacity Concrete(mm/inches) | 22 55/64" |

GENERAL SAFETY RULES

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

SAVE THESE INSTRUCTIONS

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.Workplace

- 1) Keep workplace clean and well lit. Cluttered and dark workplaces invite accidents.
- 2) 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.
- 3) Keep children and bystanders away while operating a power tool. Distractions can 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 earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2)Avoid body contact with earthed or grounded surfaces such as conduits, radiators, and refrigerators. There is an increased risk of electric shock if your body is earthed or 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

cord away from sharp edges 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.

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 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.
- 2)Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non- skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- 3)Avoid suddenly starting. Ensure the switch is in the off position before plugging in. When your finger on the switch or plugging in power tools that have the switch on invites accidents.
- 4)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.
- 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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- 7)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

- 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 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 those intended could result in a hazardous situation.

5. Battery tool use and care

- 1) Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- 2) Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- 3) When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- 4) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

6. Service

- 1) 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.

SAFETY RULES FOR BATTERY PACK

1. Avoid unintentional switching on, ensure the on/off switch is in the off position before inserting battery pack. Carrying the power tool with your finger on the on/ off switch or inserting the battery pack into power tools that have the switch on invites accidents.
2. Do not open the battery. Danger of short-circuiting.
3. Protect the battery against heat, e.g., also against continuous sun and fire. There is danger of explosion.
5. When the battery is defective, liquid can escape and come into contact with adjacent components. Check any parts concerned. Clean such parts or replace them, if required.
6. Use the battery only in conjunction with  power tool. This measure alone protects the battery against dangerous overload.
7. Only use charge the battery with the  charger. Use with other type of charger may result in a fire.
8. Do not crush, drop or damage the battery pack. Do not use a battery pack or charger that has been dropped or received a sharp blow. A damaged battery is subject to explosion. Properly dispose of a dropped or damaged battery immediately.
9. Do not charge a battery tool in a damp or wet location. Following this rule will reduce the risk of electric shock.

HAMMER SAFETY WARNINGS

1. **Wear ear protectors.** 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.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

OPERATION

OPERATION GUIDELINES

⚠ NOTE: Before using the tool, read the Instruction book carefully.

INTENDED USE

The machine is intended for hammer drilling and chiseling in concrete, brick. It is also suitable for drilling without impact in wood, metal, ceramic and plastic.

BEFORE PUTTING INTO OPERATION

CHARGING WITH DIAGNOSTIC CHARGER

1.Connect the battery charger into the AC power supply.

2.Slide the raised ribs on the battery pack into the slots on the charger until the latches on each side of the battery pack snap in place.

3.Once the battery is properly attached, the LED's on the charger will be lit up and indicating the charging status.

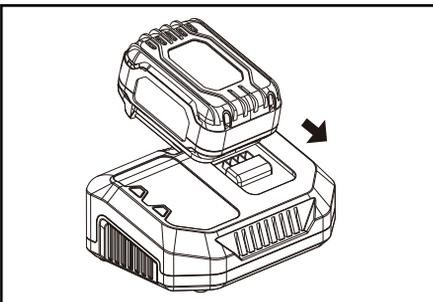
There are 5 different colour possibilities:

| Description of LED display | Picture | Indicating Status | Charger Model |
|--|---|---------------------------|---------------|
| Steady red light |  | Charger is plugged in | 2A/4A/6A |
| Steady red light + flashing green light |  | Battery is charging | 2A/4A/6A |
| Steady red light + steady green light |  | Battery is fully charged | 2A/4A/6A |
| Flashing red light |  | Battery pack is too hot | 2A/4A/6A |
| Red and green light flashing alternatively |  | Battery pack is defective | 2A/4A/6A |

⚠ NOTE! In case of “defective” status, try removing and inserting the battery again into the charger, and do the same with another new battery. If the same status remains, it may be the case that the defective item is the charger and not the battery.

4.Press the button on the battery pack and then slide it off from the charger to remove it.

5.Disconnect the charger from the power supply.



CHARGING THE BATTERY PACK

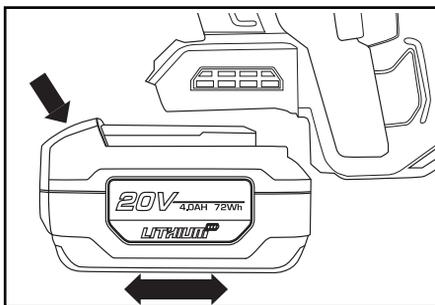
The battery pack charger supplied is matched to the Li-ion battery installed in the machine. Do not use other brand battery charger.

The Li-ion battery pack is protected against deep discharging. When the battery pack is empty, the machine is switched off by means of a protective circuit: The chuck no longer rotates.

In a warm, environment or after heavy use, the battery pack may become too hot to permit charging. Allow time for the battery pack to cool down before recharging.

TO REMOVE OR INSTALL BATTERY PACK

Depress the battery pack release button to release and slide the battery pack out from your tool. After recharge, slide it back into your tool. A simple push and slight pressure will be sufficient.



OPERATION

1. INSERTING AND REMOVIING DRILL BIT IN SDS

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

— INSERTING

Clean and lightly oil the bit before inserting. Insert the dust free bit into the bit holder with a twisting motion until it latches.

The bit locks itself. Check the lock by pulling on the tool.

- REMOVING

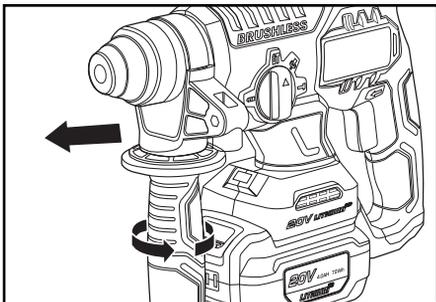
Retract back the bit holder locking sleeve and pull out the bit.

⚠ WARNING! Your new Rotary Hammer Drill generates powerful forces to get your job done quickly and effectively. These forces may cause inferior quality SDS bits to break and jam in the chuck, We therefore recommend that only high quality SDS bits be used with this tool.

2. AUXILIARY HANDLE

Slide the handle onto the hammer and rotate to the desired working position. To clamp the auxiliary handle rotate the handle clockwise. To loosen the auxiliary handle, rotate the handle counter clock-wise.

⚠ Warning: Always use the auxiliary handle.



3. ADJUSTABLE DEPTH GAUGE

Loosen the depth gauge by rotating the handle counter-clockwise. Slide the depth gauge until the distance between the depth gauge end and the drill bit end is equal to the depth of hole/screw you wish to make. Then clamp the depth gauge by rotating the handle clockwise.

4. TRIGGER SWITCH

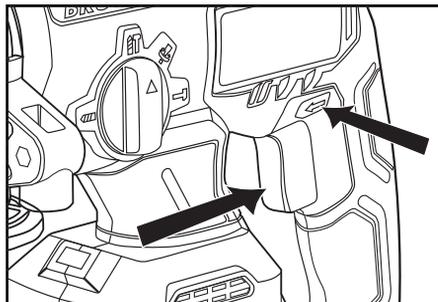
Depress the trigger to start and release it to stop your tool.

— TRIGGER SWITCH WITH VARIABLE SPEED CONTROL

Depress the trigger switch to start and release it to stop your tool. This tool has a variable speed switch that delivers higher speeds with increased trigger pressure or delivers lower speeds with reduced trigger pressure - speed is controlled by varying the pressure applied to the switch.

5. SWITCH LOCK

The switch trigger can be locked in the OFF position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch trigger, place the direction of rotation control in the center position.



6. FORWARD AND REVERSE ROTATION CONTROL

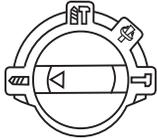
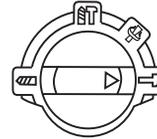
Forward rotation: Push the forward and reverse rotation control to the left “←”, for drilling
Reverse rotation: Push the forward and reverse rotation control to the right “→” for removing the drill bits.

⚠ WARNING: Never change the direction of rotation while the tool is rotating, wait until it has stopped.

7. FUNCTION MODE SELECTION

The operation of the gearbox for each application is set with the function selector dial. To change between functions, depress the unlocking button and rotate the selector to the desired operating mode.

⚠ WARNING: The operating mode selector switch may be operated only at a standstill.

| | |
|---|---|
|  | Mode for simultaneous drilling and impacting of concrete, masonry |
|  | Mode for drilling into steel, wood and plastics |
|  | Mode for chiseling |



Mode for adjusting the chuck angle of chiseling.

NOTE: Select this function mode first, adjust the chuck angle to desired direction. Then select the function mode to "↑", operate the chiseling work.

9. OVERLOAD PROTECTION

When overloaded, the motor comes to a stop. Relieve the load on the machine immediately and allow cooling for approx. 30 seconds at the highest no-load speed.

10. TEMPERATURE DEPENDENT OVERLOAD PROTECTION

When using as intended for, the power tool cannot be subject to overload. When the load is too high or the allowable battery temperature of 70°C is exceeded, the electronic control switches off the power tool until the temperature is in the optimum temperature range again.

11. PROTECTION AGAINST DEEP DISCHARGING

The Li-ion battery is protected against deep discharging by the "Discharging Protection System". When the battery is empty, the machine is switched off by means of a protective circuit:
:The inserted tool no longer rotates.

WORKING HINTS FOR YOUR TOOL

If your power tool becomes over heated, set the speed to maximum and run no load for 2-3 minutes to cool the motor. SDS-plus tungsten carbide drill bits should always be used for concrete and masonry. When drilling in metal, only use HSS drill bits in good condition. Where possible use a pilot hole before drilling a large diameter hole.

Trouble shooting

| Problems | Reasons | Ways to Solve The Problems |
|---------------------------|--|---|
| The machine does not work | Battery is depleted | Charge the battery |
| Motor overheating | Be sure cooling vents are free from dust and obstacles | Clean, clear vents. Do not cover with hand during operation |

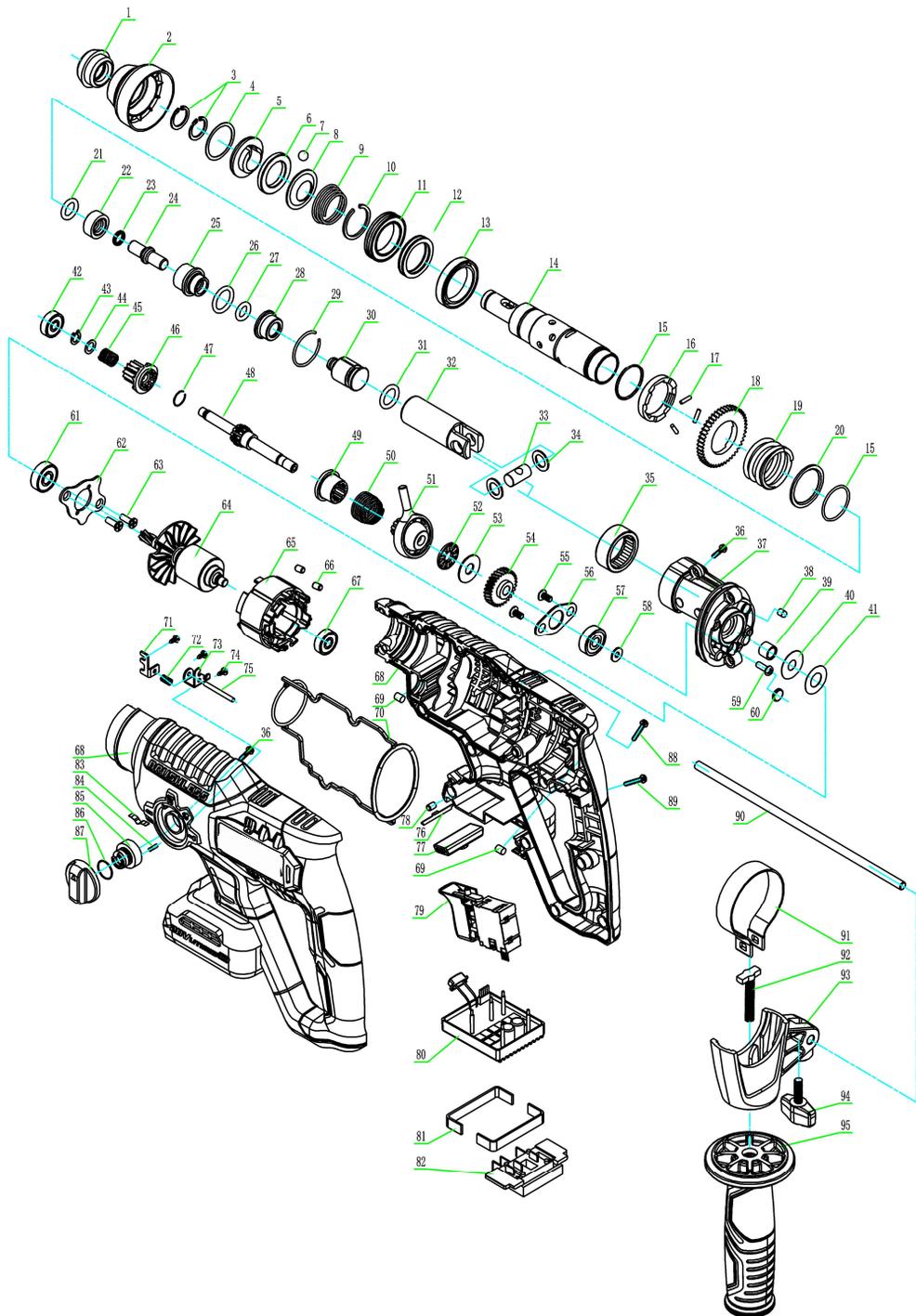
TOOL MAINTENANCE

1. Before any work on the machine , pull the power plug or take out of the battery pack
2. Use clean cloths and mild soap to remove dirt, dust, etc.
3. Never use gasoline, benzene, diluent, alcohol or similar to clean tools. otherwise will cause the tools discoloration, deformation, or cracking.
4. Keep the vents clean. Clean all parts of the tool, clean dust periodically. To prevent debris from entry.
5. All service **MUST** only be performed by Authorised **LUMBER JACK** Service Center. ALWAYS use only **LUMBER JACK** accessories that are recommended for this tool.

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.



| Pos. | Description | QTY |
|-------------|--|------------|
| 1 | Rubber Head | 1 |
| 2 | Ball holder | 1 |
| 3 | Ring $\Phi 15$ | 2 |
| 4 | Washer $\Phi 25.2 \times 30 \times 0.5$ | 1 |
| 5 | Ring | 1 |
| 6 | Ring $\Phi 20.7 \times 32 \times 4$ | 1 |
| 7 | Ball $\Phi 7.14$ | 1 |
| 8 | Ring | 1 |
| 9 | Spring $22 \times 30 \times 1.8 \times 28$ 、 | 1 |
| 10 | Ring $22.8 \times 27.5 \times 1.5$ | 1 |
| 11 | Bearings 6805 | 1 |
| 12 | Washer $25.1 \times 32.2 \times 5$ | 1 |
| 13 | Oil Seal $27 \times 37 \times 6.5$ | 1 |
| 14 | Teleflex | 1 |
| 15 | Spring 24.5×1.6 、55CrSiA | 2 |
| 16 | Safety clutch | 1 |
| 17 | Pin $\Phi 2.5 \times 10$ | 3 |
| 18 | Big gear 46T | 1 |
| 19 | Spring $27.5 \times 3.5 \times 27.5$ | 1 |
| 20 | Spring Washer | 1 |
| 21 | O-Ring $\Phi 11 \times 3$ | 1 |
| 22 | Front holder | 1 |
| 23 | Sealing | 1 |
| 24 | Impact hammer | 1 |
| 25 | Rear holder | 1 |
| 26 | O-Ring $\Phi 16 \times 3$ | 1 |
| 27 | O-Ring $\Phi 9 \times 3$ | 1 |
| 28 | Stop collar | 1 |
| 29 | Spring $\Phi 24 \times 1.8$, 65Mn | 1 |
| 30 | Rammer | 1 |

| Pos. | Description | QTY |
|-------------|---|------------|
| 31 | O-Ring $\Phi 13 \times 3$ | 1 |
| 32 | Cylinder case(Piston) | 1 |
| 33 | Piston Pin $\Phi 10 \times 19$ 、20Cr | 1 |
| 34 | Washer $\Phi 16 \times \Phi 10 \times 1$ 65Mn | 2 |
| 35 | Needle bearing 25*32*12、HK25 | 1 |
| 36 | Screw ST3.9*14 | 2 |
| 37 | Aluminum stents | 1 |
| 38 | Felt washer 7x15 | 1 |
| 39 | Ring 8*10.5*8 | 1 |
| 40 | Washer 8.5*21.9*0.3 | 1 |
| 41 | Oil baffle plate 11*21.9*0.3 | 1 |
| 42 | Bearing 626ZZ | 1 |
| 43 | Ring $\Phi 6$ | 1 |
| 44 | Washer 12*7.2*1 | 1 |
| 45 | Spring 7.2*0.9*15 | 1 |
| 46 | Clutch gear | 1 |
| 47 | Ring 11x1.2 | 1 |
| 48 | Splined shaft | 1 |
| 49 | Aplined shaft Hub | 1 |
| 50 | Clutch spring | 1 |
| 51 | Swing bearing set | 1 |
| 52 | Metal frame | 1 |
| 53 | Bearing washer | 1 |
| 54 | Small gear | 1 |
| 55 | Screw M5*12 | 2 |
| 56 | Bearing board | 1 |
| 57 | 627 Bearing | 1 |
| 58 | Washer 4.2x10x1 | 1 |
| 59 | Screw M4*10 | 1 |
| 60 | Rubber column 9.3*4 | 1 |

| Pos. | Description | QTY |
|-------------|-----------------------|------------|
| 61 | Bearing 608RS | 1 |
| 62 | Bearin board 608 | 1 |
| 63 | Screw M4*10 | 2 |
| 64 | Rotro | 1 |
| 65 | Stator | 1 |
| 66 | Rubber column 4.3x6.5 | 4 |
| 67 | Bearing 626-2RS | 1 |
| 68 | Motor Housing | 1 |
| 69 | Screw 5x6 | 4 |
| 70 | Housing Sealing | 1 |
| 71 | Stop plate | 1 |
| 72 | Spring 5x0.5x12 | 1 |
| 73 | Chisel locking plate | 1 |
| 74 | Screw ST3*10 | 3 |
| 75 | Pin 3x30 | 1 |
| 76 | Battery pack washer | 1 |
| 77 | Right and left rod | 1 |
| 78 | Rubber column 4x9 | 2 |
| 79 | Switch | 1 |
| 80 | PCB controller | 1 |
| 81 | Controller washer | 2 |
| 82 | Battery pack socket | 1 |
| 83 | Knob Washer | 1 |
| 84 | Knob Pin 2.5x13.5 | 1 |
| 85 | Knob holder | 1 |
| 86 | O-ring 9.6*2.3 | 1 |
| 87 | Button set | 1 |
| 88 | Screw ST3.9*22 | 2 |
| 89 | Screw ST3.9*18 | 14 |
| 90 | Depth ruler | 1 |

| <i>Pos.</i> | <i>Description</i> | <i>QTY</i> |
|-------------|--------------------|------------|
| 91 | Hoop | 1 |
| 92 | T-screw M8x36 | 1 |
| 93 | Hoop seat | 1 |
| 94 | Thumbscrew | 1 |
| 95 | Side handle | 1 |

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