

DGH-49

Gasoline Jack Hammer



User Manual

Congratulation on you choose our gasoline jack hammer. This gasoline jack hammer is the lightest weight in the world, lowest displacement of small construction machinery. It can crush, tamp, and compact with multifunctional hand-held tools. And it can also easily rotate. It surpasses conventional design and brings significant and economic benefits to the user. Compared to other brand gasoline hammer, it has energy saving, environmental protection and the advantages of easy to use. Reasonable maintenance measures can bring this product work efficiency, longer life to the maximum. For your safety, please follow the instructions on the safe operation of the rules of operation and technical maintenance, otherwise it will cause harm to your personal safety or damage the machine.

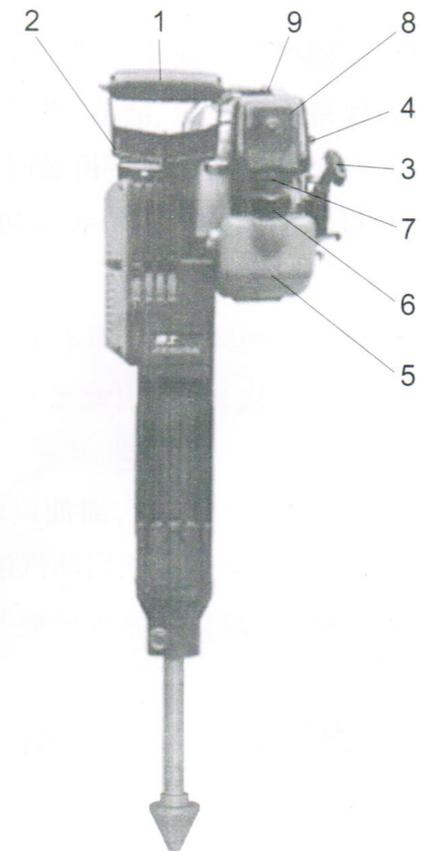
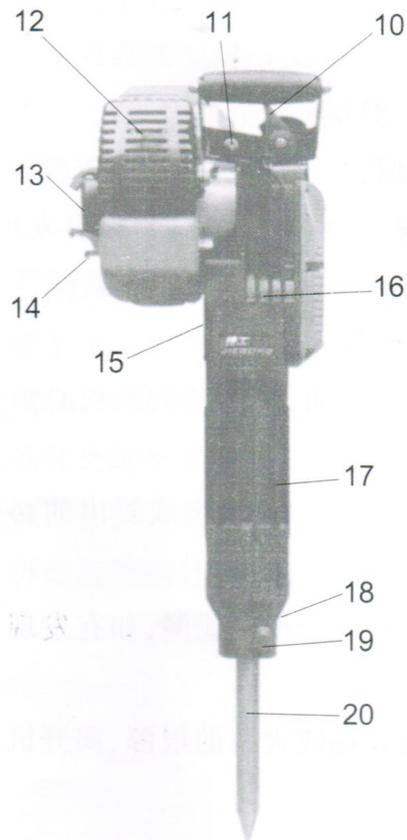
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1. Name of major part

- 1 operating handle
- 2 the control frame
- 3 super-dynamic puller
- 4 choke switch
- 5 fuel tank
- 6 tank cover
- 7 oil lubricator
- 8 air filter
- 9 spark plug
- 10 control holder

- 11 flameout button
- 12 muffler
- 13 starter
- 14 foot care
- 15 back cover
- 16 gear box
- 17 hammer block seat
- 18 drill seat
- 19 drill lock
- 20 drill (tamping head)



2. Instruction of safe operation

1. The operator need wear slip-resistant safety shoes, appropriate clothing. Wear goggles and helmet, wear earplugs for a long time operation.
2. Balance body when you operation the machine.
3. Prohibit smoking when you operate this machine.
4. When you lift machine, the first control you need dial to reach the minimum scale, let the machine to slow down.
5. Tell idlers away from the work area avoid injury. The process of using machine may lead to gravel flying to idler.
6. Select medium-speed gasoline hammer to run for the best. Control dial to between 3 to 4 in the scale.
7. In the use of operation, the operator is not equal to the greater pressure crushing, stamping, consolidate faster, try to use the weight of the machine itself, the force should be reasonable in order to achieve high efficiency and easy operation results.
8. Gasoline hammer for crushing, stamping, solid work, the work can not be used to pry the stone.
9. Maintain the handles dry, clean, no oil or fuel mixture.
10. Stop the operation midway; you must turn off the engineer.
11. Every time please check normal fastening screws of the connector before use, if loose, must tighten the screws can be used.
12. Prohibition only pure gasoline (without two-stroke engine oil) for fuel.
13. Gasoline is highly flammable, so to refuel in a well ventilated environment. When you add oil, please stop gasoline engine.
14. Do not add oil too full, do not leave the fuel filler in neck part of machine. If overflow or spilled fuel, wait the fuel all volatilization, then you can start machine.
15. After refueling, tighten the oil lid, Please check frequently whether the damage the fuel tank leaks, if found damaged replace immediately.
16. Reserve oil in storage areas. Remove all the root causes of fire or cause sparks.
17. In closed areas, such as tunnels, trenches and deep groove in the work environment when using gasoline hammer to ensure sufficient fresh air, exhaust gas containing carbon monoxide dangers, should bring electric fan for air flow.
18. Forbid quickly accelerate or brake, so as not to damage the machine.
19. Avoid the impact of fragmentation work against the machine in the context of high speed operation.
20. Transfer site long-distance transport, should be emptying the tank.
21. Prohibit substandard maintenance staff dismount gasoline hammer, to avoid structural damage to parts, resulting in shortened life of gasoline hammer and accidents.

3. Main use and feature

Use

1. It can use on building construction, road building project in the broken.
2. Break cornerstone for the railway road and tamp sleepers tamping work.
3. Power embedded in the telecommunications cables broken ditching work.
4. Cold water and ice breaking region, the frozen road digging shovel to clear cutting of destroying other strong areas.

Features

1. It is the world's lightest weight, lowest displacement engine type gasoline hammer handheld
2. A perfect body and “V” linear operation, minimizing the hands of vibration, has significant control of convenience and comfort, the operator can shovel digging a 360 degree rotation.
3. It can regulate the number of impact energy and impact, apply for a variety of materials suitable for construction.
4. Applications: Our machine is suit in many kinds of situations, such as crashing project in road-building, electric power, telecom, telecom, and cable, ditch these kinds of crashing work.

Advantage: If you use our machine, then you can ignore the trouble of diesel engine and pressing machine, trucking-lorry this kind of heavy equipment, which will not limited by the pipe line, electric line, cable, no matter how high and how far, we can work situation.

4. Preparatory work before use

Installation

1. Pick the hex head holder plastic cover, drill rod and the clamping plane hexagonal at lubricating.
2. Pull out the holder rotated 180 degrees, reset, install or remove all kinds of drill (see photo).



Fuel

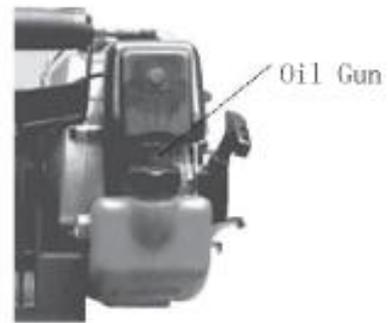
The general gasoline and the quality standards of the two-stroke oil mix.
Recommended mixing ratio

Conditions	gasoline: engine oil
Work within 100 hours	25:1
Work after 100 hours	30:1

1. Prohibit the use of pure gasoline (not plus two-stroke engine oil) for fuel.
2. Well-ventilated place to add fuel.
3. Do not add too full fuel in the fuel tank. Do not leave fuel in the neck. If any fuel spill, please completely remove or evaporate before starting the gasoline engine.
4. After refueling, tighten the fuel tank cap.

5. Start

1. For first starting of the new machine. Repeat press the transparent semi sphere fuel gun(Pic. 1) to fully fill the Carburetor with fuel.
4. Close the air vent when the engine is in the state of cooling, but open the air vent only when the engine is heated.
5. Hold the operation handle using one of your hand and quickly pull the pulling handle for about 50cm with the other hand. Do not let the pulling handle go back freely in your repeat pulling, but hold it and put it down with its resilience to protect the starter.
6. Open the air vent completely when the gasoline engine is started.



Pic. 1



Pic. 2

6. Run

1. After gasoline engine start, it should be low speed for 2 to 3 minutes, this warm operation for the machine.
2. When the gasoline engine warm enough, according to the required impact energy to pull appropriate regulatory position.

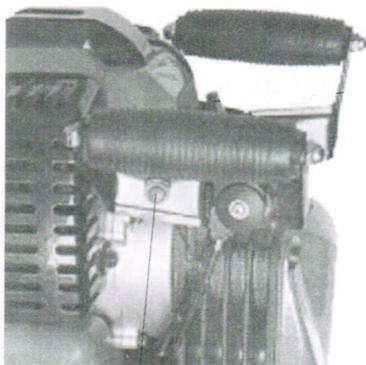
Note: ① the new gasoline hammer use of the first 24 hours, the work load should be light in order to better use.

② Just start poor lubrication of gasoline, do not accelerate quickly.

3. Select medium-speed gasoline engine run for the best, pulling the control between the scales of 3-4.
4. Prohibit use gasoline hammer under the non-breaking with high speed operation.

7. Stop machine

1. Pull scale position 0, idle running 3-5 minutes.



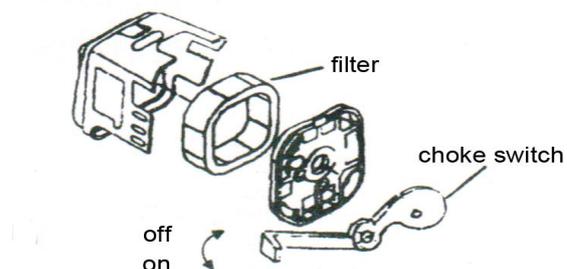
red button(stop)

2. Press the red button to stop.

8. Technical maintenance

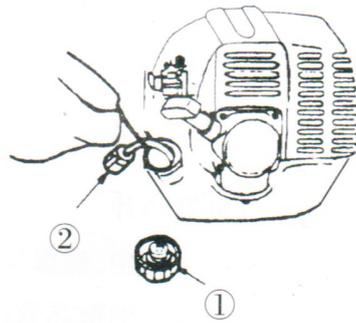
1. Air Filter

Check air filter regularly. Dust block on the cover of air filter will reduce engine power, cause cylinder short life. If the filter is very dirty, put a mild detergent with warm water, wring dry, after cleaning the filter should drop a few drops of oil on the dry and then install the air filter. Filter should be replaced if damaged, particularly if the environment of dust should be short maintenance cycle.



2. Fuel filter

If the fuel filter clogging, there will be speed slow, weak impact of the phenomenon of gasoline hammer. Method: ①Open the tank lid with metal hook take the fuel filter cleaning from the tank to ② When cleaning the fuel filter together clean fuel tank.

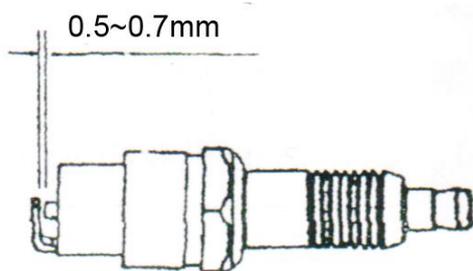


3. carburetor

Fuel tank and carburetor are generally left residual oil. A long time pass the residual oil will come into rubbish. And the rubbish will plug the oil line, causing the engine does not work. Therefore, when the machine is not used more than one week, be sure to completely take the fuel out. Take oil method: Repeat pressing the carburetor fuel primer rubber to drain the oil.

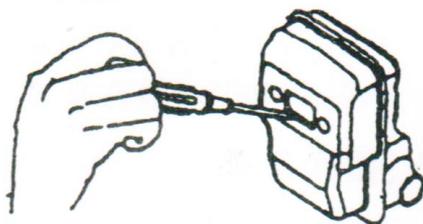
4. spark plug

To ensure normal operation of the engine, spark plug gap to be moderate, with a wire brush to remove sediment. Reasonable spark plug gap 0.5-0.7 mm.



5. muffler

Regular maintenance muffler, use a screwdriver to remove rubbish on the body or the rubbish on the coke muffler exhaust.



6. Centrifugal oil cup

Open the gear box cover, the eccentric shaft of the centrifugal oil cup to regularly add special butter.

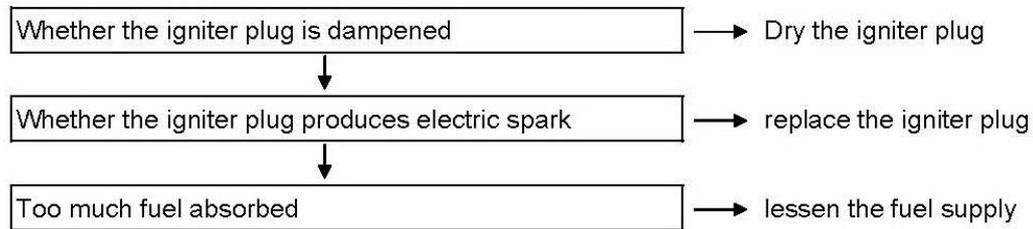
7.the cylinder heat sink

Regularly to remove dust, to ensure the cylinder cooling, this gasoline hammer is air-cooled type, if the cylinder dust accumulates on the heat sink will directly affect the cooling effect. Dust is easy to make the engine meet trouble.

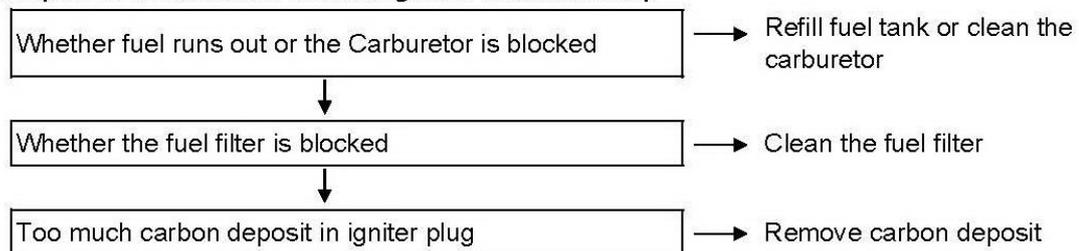
9. Failure analysis and trouble method

Problems analysis and solving

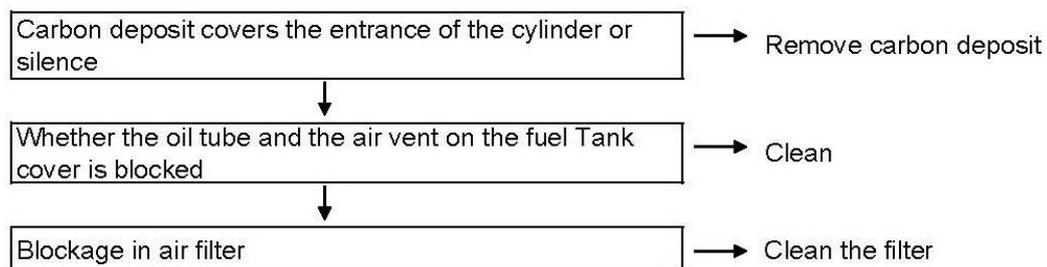
Example1: difficulties in starting engine in cooling state.



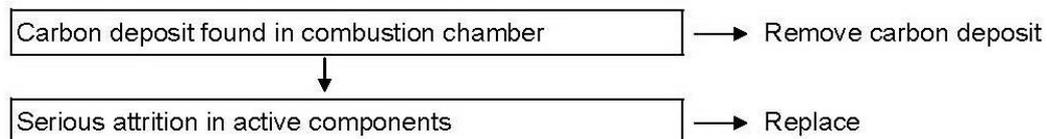
Example 2: Difficulties in restarting after a sudden stop



Example 3: Reluctance in speeding and weakness in power



Example 4: abnormal sound



Example 5: The machine is working normally, but the efficiency of cracking is very low



Please contact with the Sales Agency of the Crusher if your machine needs further mending.

10. Product key data

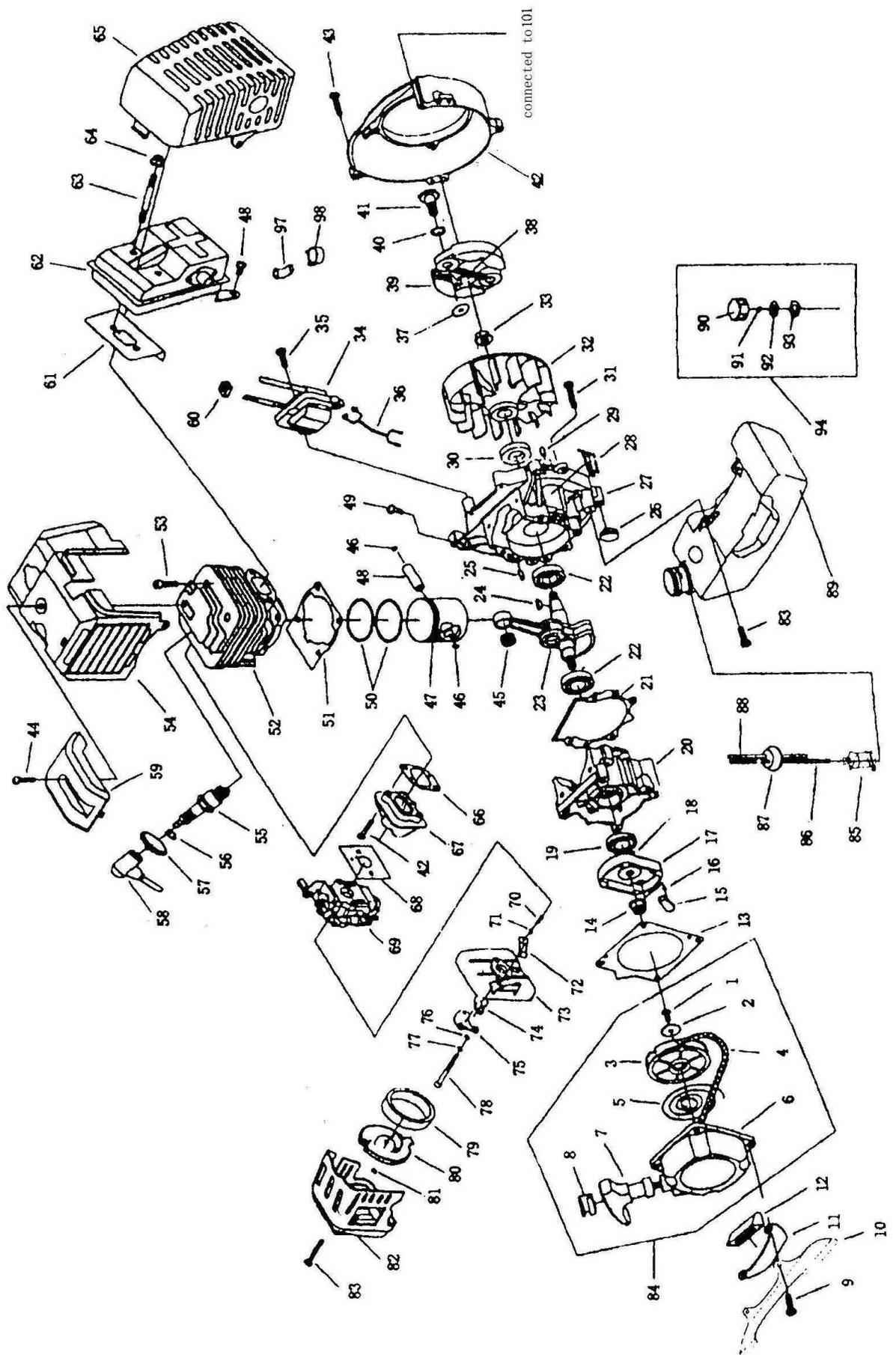
Engineer type	Single cylinder, air cooling, 2 stroke
L×W×H (mm)	740x390x325
Fuel	mixing oil(gasoline 25, two-stroke engine oil 1)
Fuel tank capacity	1.2L
Weight	17.5KG
Displacement	51.7cc
Max power and speed	1.45KW/6500r/min
Max torque and speed	2.5N·m/5000r/min
Fuel use up rate	≤ 0.6L/h
Impact number	700~1500min-1
Impact energy	25~55J
Carburetor type	IE40F-5A.8
Spark plug type	L6(LD)
Starter system	Hand pull start

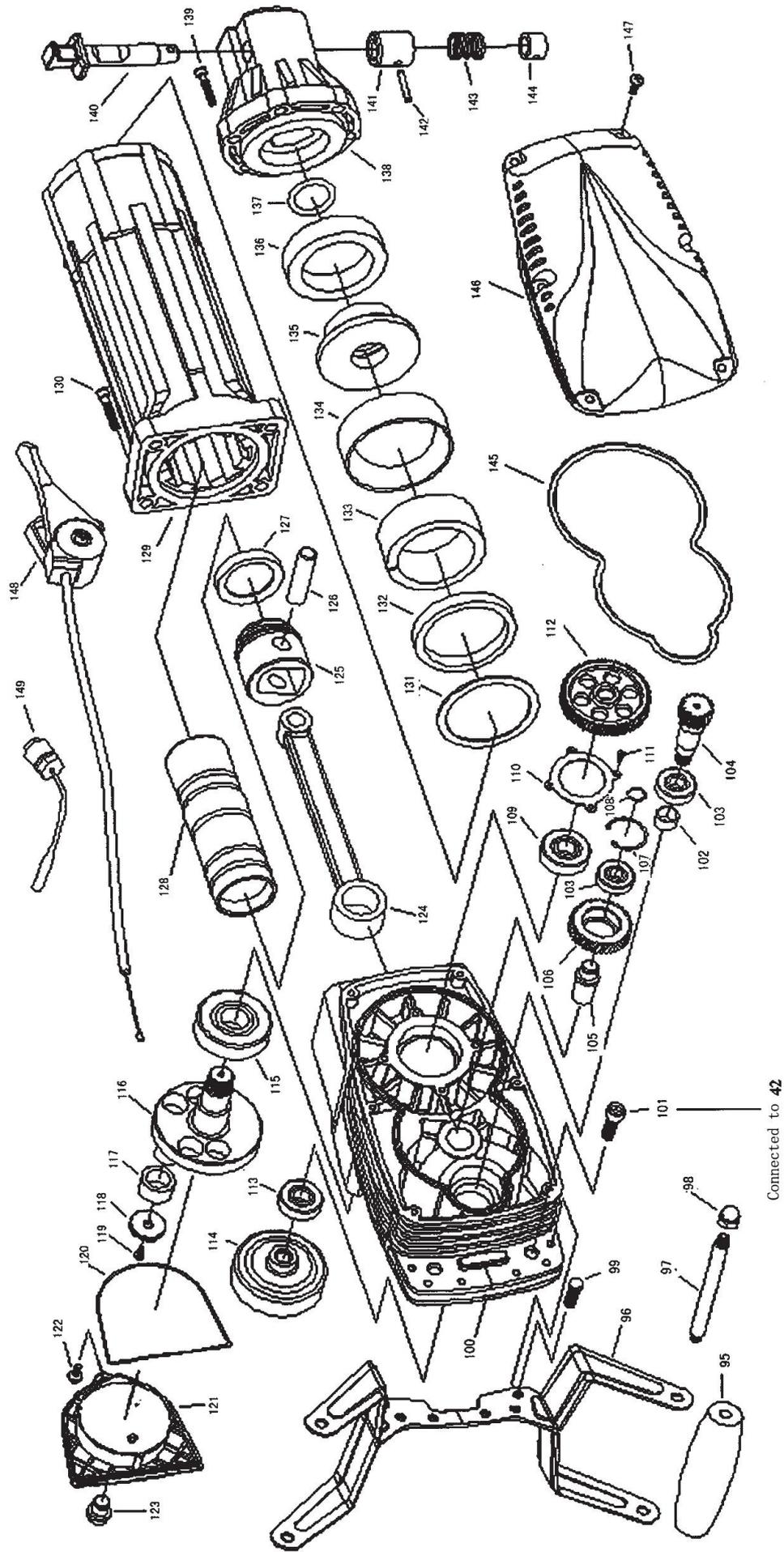
11. Maintenance Cycle

The following Data are given for common use of the product. Suppose it is in worse working condition, such as thick dust in the air or much longer work hours for the Crusher, the maintenance cycle should be shortened correspondingly.		Before work	After work or every day	After Filling Oil	Every Week	Every Month	Broken Down	If necessary
The whole machine	outlook check(state, stabilities of screws)	✓		✓				
	Cleaning		✓					
Control handle/stop button	function check	✓		✓				
Air Filter	Clean				✓			✓
	Replace						✓	
Fuel Filter	Check					✓		
	Replace						✓	
Petrol Tank/Petrol Tank Cover	Clean		✓	✓				
	Check	✓		✓				
	Tighten							✓
Gear Box/Hammer Box	Clean					✓		
	Add oil							✓
Lubricating Oil Tank	Check	✓						
	Clean					✓		
	Fill Oil							✓
Chisel	Check Sharpness	✓						
	Sharpen or Forge							✓
	Replace						✓	
Silencer	Check					✓		
	Remove carbon deposit							✓
Cylinder Cooling Fin	Check					✓		
	Clean							✓
Igniter Plug	Check/Adjust Customize the distance between electrodes					✓		
	Replace							✓
Screw and Nut	Check	✓		✓				
	Tighten							✓

12. Part list of GASOLINE JACK HAMMER

NO.	Part Name	Qty	NO.	Part Name	Qty	NO.	Part Name	Qty
1	Screw M5×12	1	51	Gasket	1	101	Bolt M5×12	4
2	Washer	1	52	Cylinder	1	102	Gasket	1
3	Start Rope Reel	1	53	Screw M5×20	4	103	Bearing 6203/P5	2
4	Rope	1	54	Guide Cover assembly	1	104	Driving Pulley	1
5	Recoil Spring	1	55	Spark Plug	1	105	Middle Axle	1
6	Start Cover assembly	1	56	Spring	1	106	Central Turn	1
7	Start Handle	5	57	Plug Cap	1	107	Circlip for Axis	1
8	Ring	1	58	Cap	1	108	Circlip for Hole	1
9	Screw M5×20	1	59	Cover	1	109	Bearing 6024/P5	1
10	Holder	1	60	Plug	1	110	Bearing plate	1
11	Stand	1	61	Gasket	1	111	screw M6×10	4
12	Rubber Cover	1	62	Muffler	1	112	Big Wheel	1
13	Gasket	1	63	Bolt	2	113	Bearing 6202/P5	1
14	Nut M8	1	64	Nut M6	2	114	Inflating Plate	1
15	Start Claw	1	65	Muffler Cover	1	115	Bearing 6205/P5	1
16	Start Spring	1	66	Gasket	1	116	Eccentric Wheel Series	1
17	Start Reel	1	67	Admitting Pipe	1	117	Needle Bearing 18/20B	1
18	Stop Ring 4	1	68	Gasket	1	118	Filling Piece	1
19	Oil-seal	1	69	Carburetor	1	119	Hexagonal Screw M8×13	1
20	Crank Case	1	70	Screw ST2.9×6.5	1	120	Seal Collar	1
21	Gasket	1	71	Washer 3	1	121	Lubricating Oil Tank	1
22	Bearing 6202/P5	2	72	Choke Handle	1	122	Bolt M5×15	1
23	Crank Shaft	1	73	Inside Cover	1	123	Indication of Oil	1
24	Key 3×13	1	74	Choke	1	124	Connecting Rod	1
25	Pin B5×12	2	75	Baffle	1	125	Igniter Plug	1
26	Rubber Washer	2	76	Washer 5	2	126	Piston Pin	1
27	Crank Case	1	77	Washer 5	2	127	Double Lip Seal Packing Collar	1
28	Guide Cover	1	78	Screw M5×55	2	128	Hammer	1
29	Pin B4×10	2	79	Filter Net	1	129	Hammer Holder	1
30	Oil-seal	1	80	Inside Cover	1	130	Bolt M8×50	4
31	Screw M5×30	4	81	O-Washer 3.15×1.8	1	131	Filling Piece	1
32	Magneto Rotor Comp	1	82	Outside Cover	1	132	Plastic Packing	1
33	Nut M8	1	83	Screw M5×16	3	133	Ring	1
34	Ignition Coil Comp	1	84	Starter	1	134	Split Ring Rubber Circle	1
35	Bolt M5×20	2	85	Cleaner Cover	1	135	Rock Drill Base	1
36	Cord Comp	1	86	Fuel Pipe	1	136	Cushion	1
37	Washer B	2	87	Plug	1	137	O-Circle 23.6×5	1
38	Spring	1	88	Fuel Pipe	1	138	Chisel Base	1
39	Expander	2	89	Fuel Tank	1	139	Bolt M5×12	6
40	Washer	2	90	Fuel Tank Lid	1	140	Chisel Pin	1
41	Screw Pin	2	91	Inlet	1	141	Spring Holder	1
42	Fan Cover	1	92	Stand	1	142	Cylindrical Pin 4×8	1
43	Bolt M5×25	6	93	Gasket	1	143	Spring Holder	1
44	Screw M5×25	1	94	Lid assembly	1	144	Spring Elastic Ring	1
45	Bearing	1	95	Rubber Handle	1	145	Seal Collar	1
46	Ring	2	96	Control Frame	2	146	Front Cover of the Gear Box	1
47	Piston	1	97	Capped Nut M8	3	147	Screw M5×20	6
48	Piston Pin	1	98	Handle Axis	2	148	Throttling Cock Combination	1
49	Bolt M5×12	3	99	Screw Pin	6	149	Stop Button	1
50	Piston Ring	2	100	Gear Box	1			





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