



## **GASOLINE HAMMER & DRILL**

**ITEM:66077-XP**



### **OWNER'S MANUAL AND SAFETY INSTRUCTIONS**

**SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER)**

**FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: 909.628.0880 MON-FRI 9AM TO 3PM PST**



## GENERAL SAFETY WARNINGS

Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in electric fire and/or serious injury. Save all warnings and instructions for future reference.

## SAFETY

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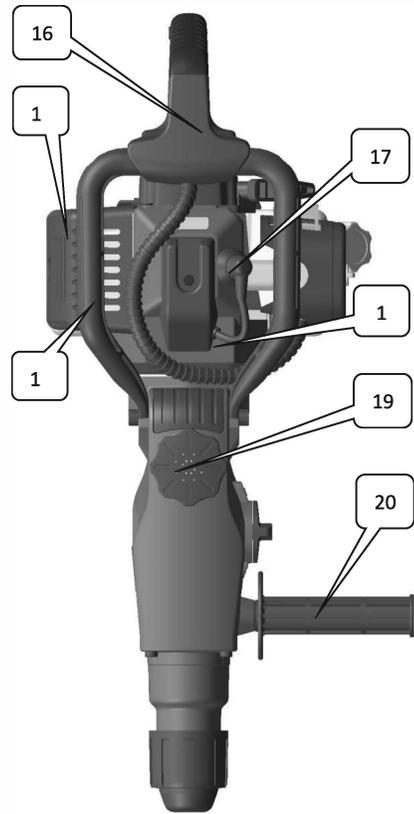
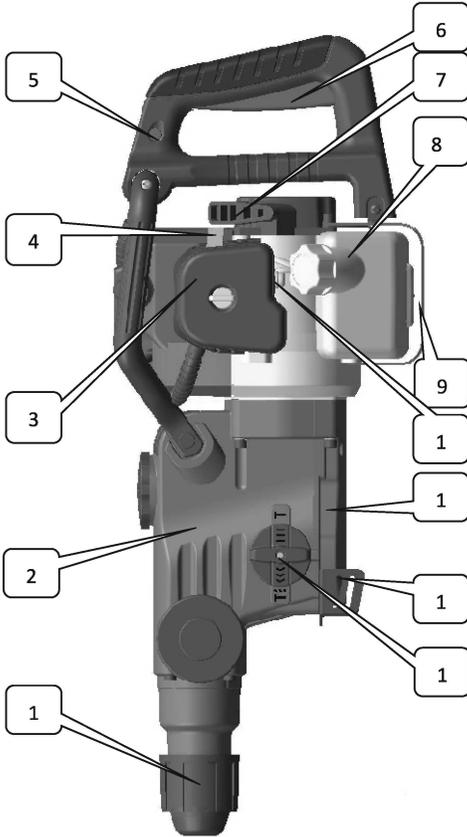
The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

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# PART INFORMATION

## I name of major part

No	Parts name	No	Parts name	No	Parts name
1	Slide clamp set	2	Gera box assy	3	Air filter
4	Ventilation door	5	Stop switch	6	Throttle switch
7	Start handle	8	Fuel tank	9	Fuel tank bracket
10	Fuel oil bubble	11	Gear box cover	12	Bend plate
13	Adjusting knob	14	Joint lever	15	Muffler
16	Main handle	17	Spark plug	18	Throttle rope
19	Lid	20	Side handle		



# Instruction of safe operation

## II Instruction of safe operation

### 2.1 Work place

- 2.1.1 Keep the work place open and bright. Chaos, crowded and dark field can cause accidents.
- 2.1.2 Don't in flammable and explosive, such as a flammable liquid, gas or dust environment or use the machine operation. Machine sparks can ignite dust or gas.
- 2.1.3 Non-work personnel should stay away from the operating area in case of injury.
- 2.1.4 In the forests, mountains, grasslands and other wild field, when using the machine must be (caused by high temperature machine emissions) fire prevention measures.

### 2.2 Personal Safety

- 2.2.1 Stay alert, when operating the machine in operation and attention is in stay awake. Don't in the tired, drugs, alcohol, or treatment response under operating the machine. During the machine operation energy dispersion can cause serious personal injury.
- 2.2.2 Use safety equipment. Always wear goggles. Safety devices, such as the appropriate conditions of dust masks, antiskid safety shoes, safety helmet, hearing protection devices can reduce personal injury.
- 2.2.3 Dress appropriately. Don't wear loose clothes or accessories. The hair, clothes and sleeve away from moving parts. Loose clothing, accessories, and the hair will be involved in the moving parts.
- 2.2.4 Used as tools to provide the auxiliary handle. Miss operation can lead to personal safety.
- 2.2.5 Watch your step when using, keep body balance. After the machine start, shall not be one-handed operation of this machine.

### 2.3 The use of the gasoline engine and the matters needing attention

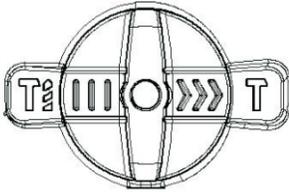
- 2.3.1 Gasoline flammable, should be in a well ventilated environment for refueling. Come on, please close the gasoline engine.
- 2.3.2 Please do not too much oil, shall not exceed the tank filler neck. If there is a fuel oil spill, need fuel volatilization completely before start the machine.
- 2.3.3 In the storage area to store gasoline, must eliminate fire hazard source or Mars.
- 2.3.4 Oil refueling, tighten the cover, the work process often should check whether there is damage to oil gas, if damaged, immediately stop the replacement.
- 2.3.5 Every time before use, please be sure to check the fitting fastening screws are tight, if loose, must be to use screw fastening.
- 2.3.6 When improve machine, can not throw the throttle handle, let the machine run idle.
- 2.3.7 Handle should be kept dry, clean, no oil or fuel mixture
- 2.3.8 If midway stop operation; Be sure to shut down the engine.
- 2.3.9 Fuel to ban the use of pure gasoline (no two-stroke engine oil), should be in proportion of 4.2 fuel recommend against the use.
- 2.3.10 In a closed area, such as tunnel, ditch and a deep ditch work environment when using the machine, must ensure that fresh air is enough. The waste gas containing carbon monoxide. Shall be provided with ventilating fan for ventilation.
- 2.3.11 Ban rapid acceleration or braking, avoid damage to the machine.
- 2.3.12 Before transportation, should be emptying the tank fuel, prevent leakage.

### 2.3 Maintenance

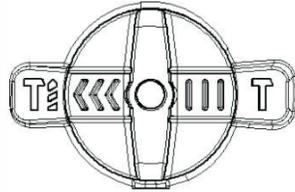
Non-professional maintenance personnel removal machine is forbidden, in order to avoid cause structural damage to parts, shorten the service life of the driver, or cause an accident.

### 2.3 Operating Mode

Time to switch from the hammer, hammer drill, drill function knob in shown in figure 3 ", "rotation has received the required operating mode. (note: must select operation mode under the condition of the engine stopped.)



Hammer



Drill

Image 3

## III Main use and feature

### 3.1Use

This machine is suitable for the concrete and bricks and rock hammer drill or chisel on homework.

### 3.2Feature

3.2.1 This product is lighter in weight, low emissions of gasoline engine type hammer/drill.

3.2.2 This product conforms to the man-machine engineering design, the greatest degree reduces the operator working strength, easy to operate, comfortable. Operator can achieve 360 - degree work.

3.2.3 Can adjust the impact energy and impact number, applicable to various bit less than 40 mm in diameter.

3.2.4 Advantage: can save with heavy equipment, such as generator, air compressor, trucks.

## IV Preparatory work before use

### 4.2Fuel

Use more than 90 # gasoline and special two-stroke engine oil

Recommend the proportions

Condition	Gasoline: Engine oil
Run within 20 hours	20:1
Run after 20 hours	25:1

4.2.1 Banning the use of pure gasoline (without two-stroke engine oil) as a fuel.

4.2.2 Add fuel In a well ventilated place

4.2.3 Please do not too much oil in fuel tank, please do not over the neck of the fuel tank filler. If fuel overflow,must remove the fuel or fuel volatilization completely restart the engine

4.2.4 Go after tighten the fuel tank lid.

# Operation

## V start

**5.1** before starting the new machine. Repeat the transparent cup is full oil fuel oil bubble(image 4),makes the carburetor fill it up with fuel.

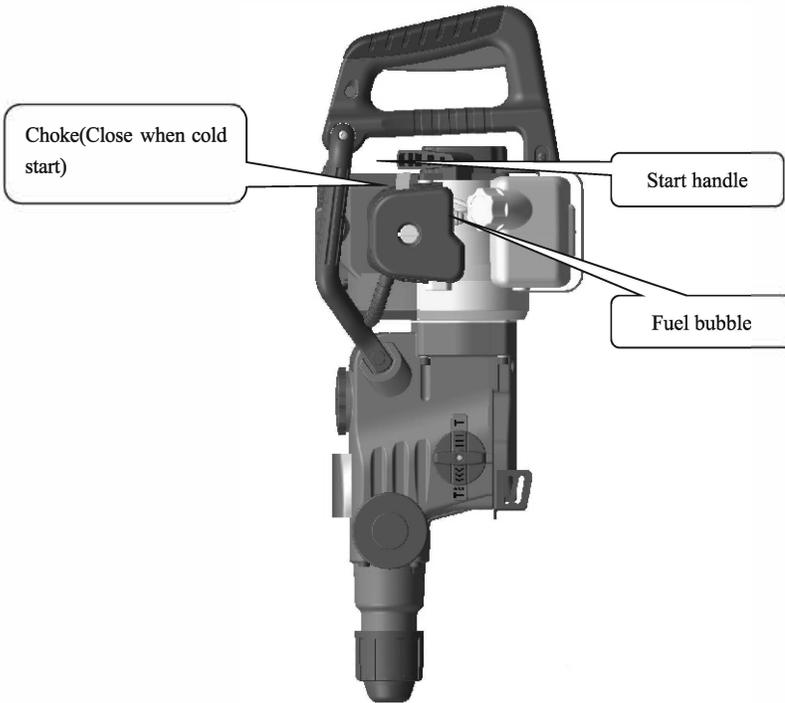


Image 4

**5.2** Machine lie flat on the ground,one hand operation handle, another hand quickly pull starter handle 50 centimeters. Please do not make the handle in the process of repeated pull rebound,hold the handle,to prevent the rapid rebound in order to protect the starter

**5.3** After starting the gasoline, completely open the throttle.

## VI Run

**6.1** Idle speed gasoline engine starting and running for 3 to 5 minutes, preheat machine.

**6.2** When gasoline engine has been preheated, according to the impact energy required, put the throttle control the press the right hand position. Note: in the first 24 hours, using the machine work should give priority to with low speed, unavailability of maximum throttle: In order to prolong service life.

# Technical maintenance

**6.3** Gasoline engine speed control in medium speed gears.

**6.4** Prohibited in the non-work state operating the machine at a high speed.

## VII Stop machine

**7.1** Loosen the throttle handle, the machine idle for 3 to 5 minutes

**7.2** Down by the flameout switch button until the engine stalled. Flame out switch position as shown in figure

1

## VIII Technical maintenance

### 8.1 Air Filter

Check the air filter regularly. Air filter cartridge dust jams will reduce engine power and shorten the service life of the cylinder. If the filter cartridge is dirty, you must use warm water and detergent, clean with a dry cloth to wipe dry after installation. If there is any breakage, the filter must be replaced. Especially in dusty work environment, maintenance cycle is shorten appropriately.

### 8.2 Fuel filter

If the fuel filter blockage, machine speed decline, impact can be reduced. Methods: (1) open the lid, with a metal hook the hook out of the tank and clean fuel filter (2) when clean fuel filter, and clean fuel tank.

### 8.3 Carburetor

The fuel tank and carburetor often have residual oil. Over time, the residual oil into the oil. Residual oil can jam the oil , the engine won't start. Therefore, when the machine idle for more than a week, you must put the fuel vent. Methods: pull into the carburetor fuel oil foam rubber tubing to repeat compressions bubble discharge of oil, fuel oil in the oil bubble and return pipe put dry after plugged into the tubing.

### 8.4 Spark plug

To ensure the normal operation of the engine, reasonable spark plug gap is 0.5 -0.7 mm. Use steel wire brush to clean carbon deposit. See image 5.

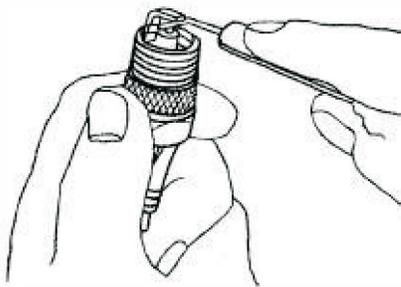


Image 5

### 8.5 Muffler

Regular cleansing dirt or use detergent to clean the silencer muffler import and export in the dirt.

### 8.6 Cylinder and gear lubrication

# Failure analysis

Cylinder lubrication: unscrew grease cover counterclockwise (see figure 2), join special cylinder hammer picks 30 grams of fat, then grease cover clockwise to tighten.

Gear lubrication: with Allen wrench unscrew gearbox cover screws (see figure 1), in the adjacent gear parts add 2 lithium grease 50 grams, then install the gearbox cover in place.

## 8.7 Cylinder cooling fin

Remove dust regularly, to ensure that the cylinder heat dissipation is good. The driver for the air cooling type. Cylinder radiator dust will directly affect the heat dissipation effect.

## IX Failure analysis and troubleshooting methods

### Problems analysis and solving

#### Example 1: difficulties in starting engine in cooling state.

Whether the spark plug is moisture.	→Dry the igniter plug
↓	
Whether the spark plug produces electric spark	→replace the igniter plug
↓	
Too much fuel absorbed	→lessen the fuel supply

#### Example 2: Difficulties in restarting after a sudden stop

Whether fuel runs out or the Carburetor is blocked	→Refill fuel tank or clean the carburetor
↓	
Whether the fuel filter is blocked	→clean the fuel filter
↓	
Too much carbon deposit in igniter plug	→ Remove carbon deposit

#### Example 3: Reluctance in speeding and weakness in power

Carbon deposit cover the entrance of the cylinder or silencer	→ Remove carbon deposit
↓	
Whether the oil tube and the air vent on the fuel Tank cover is blocked	→Clean
↓	
Blockage in air filter	→ Clean the filter

#### Example 4: abnormal sound

Carbon deposit found in combustion chamber	→ Remove carbon deposit
↓	
Serious abrasion in active components	→ Replace

# Product key data

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

The head of the chisel is attrited badly	→replaced or renew
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Please contact with Sales Agency of the Crusher if your machine needs further mending.

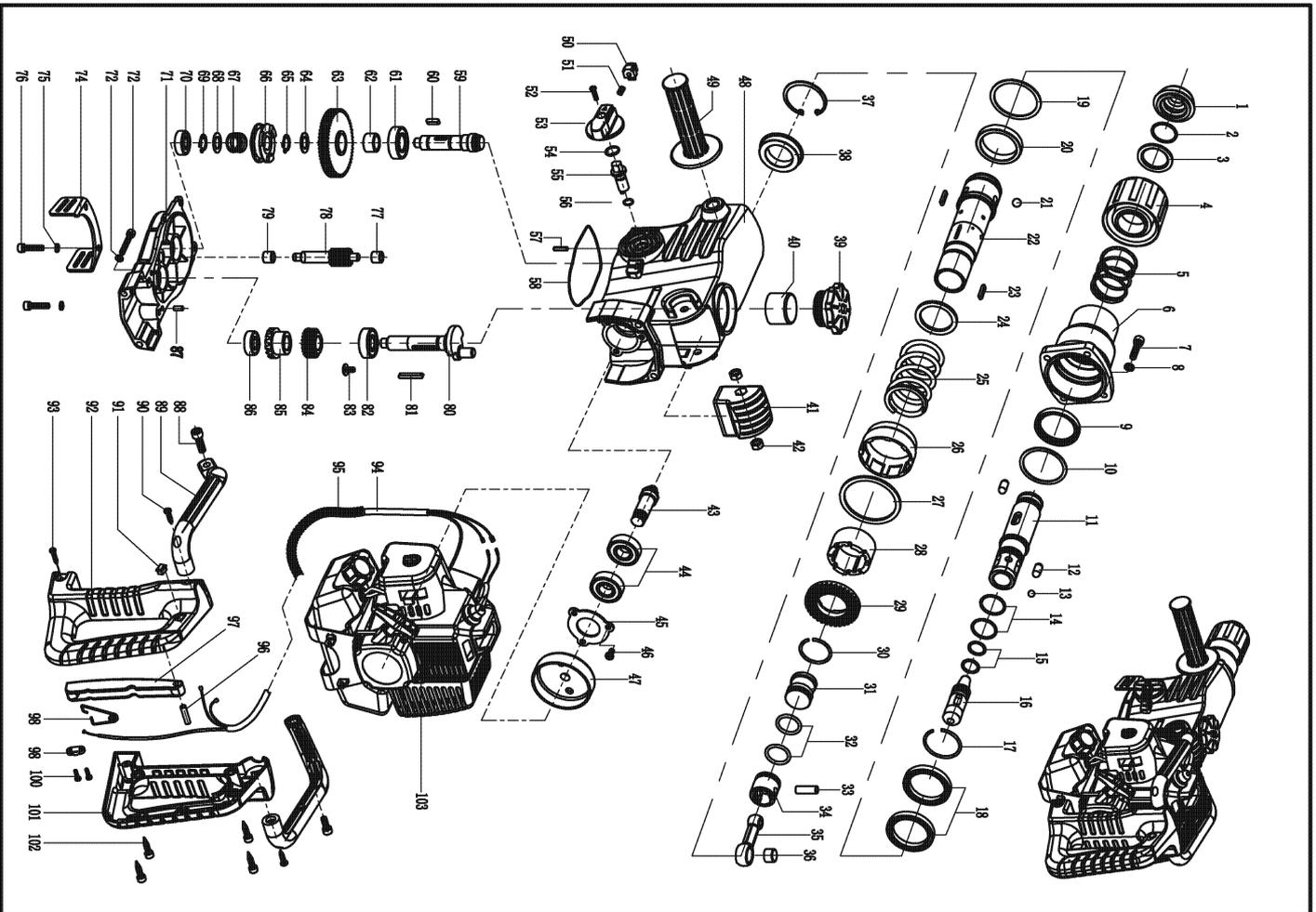
## X TECHNICAL DATA

Engine type	Single cylinder, air cooling, 2 stroke
Fuel	mixing oil(gasoline 30, two-stroke engine oil 1)
Fuel tank capacity	0.9L
Displacement	32.7CC
Power	1200W
Max torque and speed	1.5N.m/5000r/min
Engine no load speed	9500r/min
No load speed	400r/min
Impact frequency	3200 BPM
Fuel consumption rate	≤500g/kw.h
Impact energy	12J
Chisel	SDS-MAX
Start system	Hand pull start

# Maintenance cycle

The following Data are given 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 Crusher, the maintenance cycle should be shortened correspondingly.		Before woke	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							√
Muffler	Check					√		
	Clean							√
Cylinder Cooling Fin	Check/Adjust Customize the distance between electrodes					√		
	Replace							√
lignite Plug	Check					√		
	Tighten							√
Screw and Nut	Check	√		√				
	Clean							√

# Exploder drawing

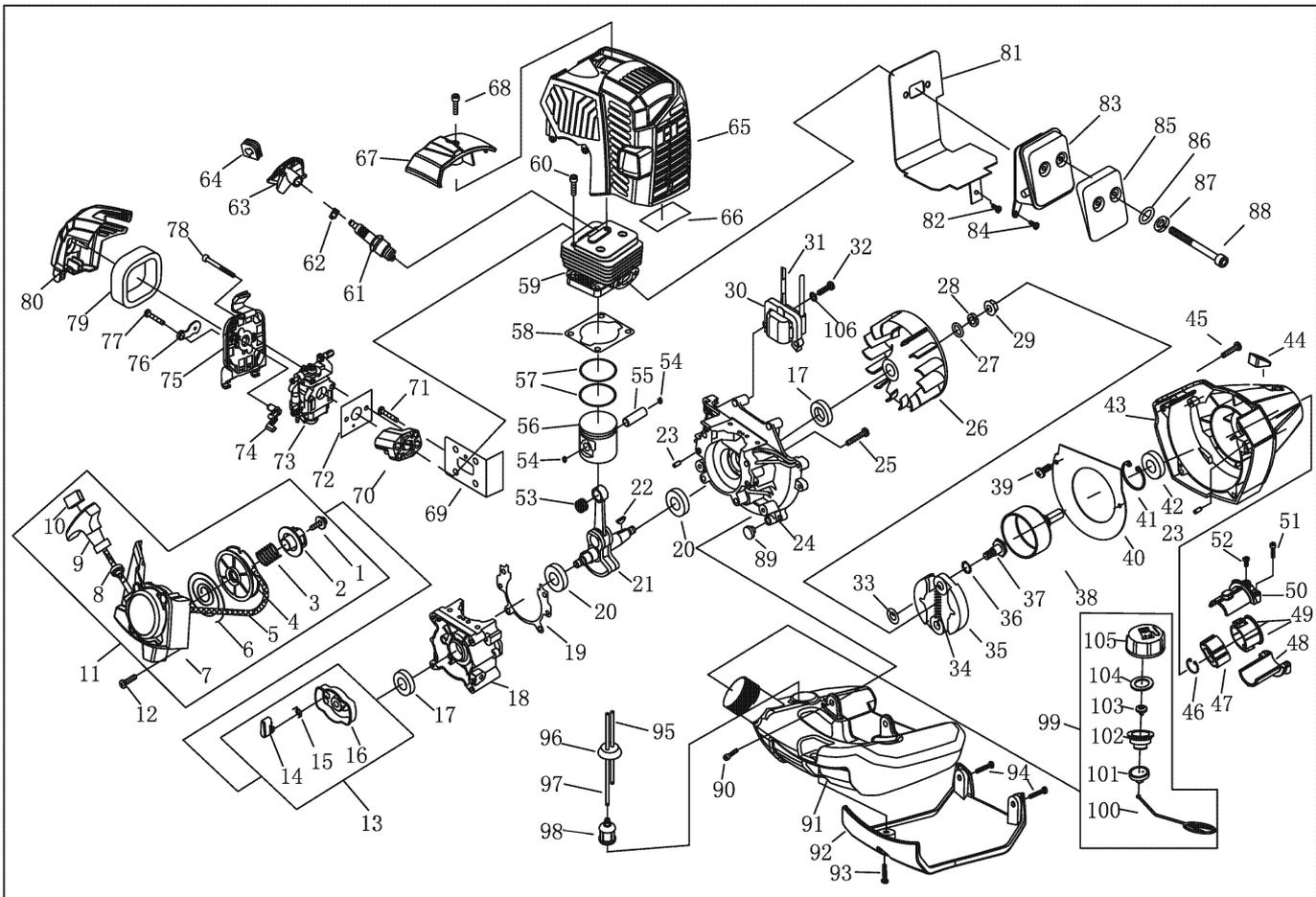


# Parts list

No.	Item	Qty.	No.	Item	Qty.	No.	Item	Qty.
1	front cover	1	31	ram	1	61	16003 bearing	1
2	steel wire jump ring 28x2	1	32	O ring	2	62	Needle bearing	1
3	retaining ring	1	33	piston pin	1	63	big gear	1
4	steel ball bracket	1	34	piston	1	64	gasket	1
5	spring	1	35	connecting rod	1	65	Φ15 jump ring	1
6	front cylindger sleeve	1	36	Needle bearing HK101612	1	66	clutch	1
7	M5X25 inner hex. screw	4	37	Φ56jump ring	1	67	Tower-shape spring	1
8	Φ5 spring washer	4	38	The cylinder liner	1	68	gasket	1
9	grease seal 40X50X7	1	39	oil seal cover	1	69	Φ15 jump ring	1
10	gasket	1	40	leakproof plastic ring	2	70	6000 bearing	1
11	teleflex	1	41	plastic handle connecting attachment	1	71	top cover	1
12	cylindrical pin 8X10	2	42	M8 nut	2	72	6X45 inner hex. screw	4
13	Φ7.94 steel ball	3	43	No.1 cone-shape gear	1	73	Φ 6 spring washer	4
14	seal ring 28X2	2	44	6202 bearing	2	74	supported bracket	1
15	seal ring 19X2	2	45	bearing cover	1	75	Φ 6 spring washer	4
16	shock sub	1	46	5X14 inner hex. screw	3	76	6X20 inner hex. screw	4
17	jump ring 40X2.5	1	47	passive power transfer disk	1	77	Needle bearing HK0810	1
18	6808 bearing	2	48	speed reduction gearbox	1	78	shaft for samll gear	1
19	gasket	1	49	auxiliary handle	1	79	Needle bearing HK0810	1
20	cylinder liner	1	50	Function part	1	80	eccentric shaft	
21	Φ9 steel ball	3	51	spring	1	81	5X5X28 square key	1
22	cylinder	1	52	M4X14 screw	1	82	6002 bearing	1
23	square key 3X3X18	2	53	2 function knob	2	83	M5X12 flat head screw	3
24	gasket	1	54	Φ 17jump ring	2	84	small gear	1
25	spring	1	55	2 function knob locking parts	1	85	corn-shape gear	1
26	range ring	1	56	Seal ring 11X1	1	86	6000 bearing	1
27	gasket	1	57	M5X18 headless screw	1	87	5X12 position pin	2
28	clutch	1	58	Seal ring	1	88	8X30 inner hex. screw	2
29	gear	1	59	NO.2 cone shape gear	1	89	handle bracket	2
30	jump ring 34X2.5	1	60	4X4X14 square key	1	90	6X16 tapping screw	2

# Parts list

91	Stop Switch	1	96	6X20cylindrical pin	1	101	right handle	1
92	Left handle	1	97	switch button	1	102	6X22 tapping screw	4
93	5X14 tapping screw	2	98	Coil spring	1	103	gasoline engine assembly	1
94	power wire	1	99	pressing board	1			
95	protective sheath	1	100	4X14 tapping screw	2			



# Parts list

## Engine body part list:

NO.	Part Name	Qty.	NO.	Part Name	Qty.	NO.	Part Name	Qty.	NO.	Part Name	Qty.
1	Screw	1	28	Washer 8	1	55	Piston Pin	1	82	Screw M4 × 12	1
2	Start Reel	1	29	Nut M8	1	56	Piston	1	83	Muffler	1
3	Spring	1	30	IGNITION COIL COMP.	1	57	Piston Ring	2	84	Screw M5 × 12	1
4	Start Rope Reel	1	31	Cord Comp.	1	58	Gasket	1	85	Cover	1
5	Rope	1	32	Screw M5 × 20	2	59	Cylinder	1	86	Washer 5	2
6	Recoil Spring	1	33	Washer B	2	60	Screw M5 × 18	4	87	Washer 5	2
7	Start Cover Ass'y	1	34	Spring	1	61	Spark Plug	1	88	Screw M5 × 60-12.9	2
8	Guide Bushing	1	35	Expander	2	62	Spring	1	89	Rubber washer	2
9	Start Handle	1	36	Washer	2	63	Cap	1	90	Screw M5 × 16	2
10	Resist Gasket	1	37	Screw Pin	2	64	Plug	1	91	Fuel Tank	1
11	Starter	1	38	Clutch Drum Comp.	1	65	Guide Cover Ass'y	1	92	Stand	1
12	Screw M5 × 20	4	39	Screw M4 × 10	2	66	Gasket	1	93	Screw M5 × 20	1
13	Start Reel Ass'y	1	40	Shutterer	1	67	Cover	1	94	Screw M5 × 50	2
14	Start pole	2	41	Stop Ring 35	1	68	Screw M5 × 16	1	95	Fuel Pipe 3 × 1 × 120	1
15	Spring	2	42	Bearing 6202-2RZ/P6	1	69	Gasket	1	96	Plug	1
16	Start Reel	1	43	Clutch Case	1	70	Admitting Pipe	1	97	Fuel Pipe 3 × 1 × 200	1
17	Oil-seal	2	44	Spropple	2	71	Screw M5 × 20	2	98	Cleaner Cover	1
18	Crank Case	1	45	Screw M5 × 16	2	72	Gasket	1	99	Lid Ass'y	1
19	Gasket	1	46	Stop Ring 15	1	73	Carburetor	1	100	Chain	1
20	Bearing 6201/P6	2	47	Rubber Cover	1	74	Choker Handle	1	101	End Cover	1
21	Crank Shaft	1	48	Clamp B	1	75	Cleaner inside cover	1	102	Inside Cover	1
22	Key 3x5x13	1	49	Rubber Cover	2	76	CHOKER	1	103	Inlet	1
23	Pin B3 × 10	4	50	Clamp A	1	77	Screw ST4.2 × 12-F-III	1	104	Gasket	1
24	Crank Case	1	51	Screw M5 × 20	2	78	Screw M5 × 55	2	105	Fuel Tank Lid	1
25	Screw M5 × 30	4	52	Screw M5 × 10	1	79	Filter Net	1	106	Gasket	2
26	MAGNETO ROTOR COMP.	1	53	Bearing	1	80	Cleaner Outside Cover	1			
27	Washer 8	1	54	Ring	2	81	Gasket	1			

# SERVICE

## **PLEASE READ THE FOLLOWING CAREFULLY**

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THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

### **Record Product's Serial Number Here:** \_\_\_\_\_

**Note:** If product has no serial number, record month and year of purchase instead.

**Note:** Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.



**SAVE THESE INSTRUCTIONS.**

## **Questions, problems, missing parts?**

Before returning to your retailer, our exceptional customer service is here to help.



Call Us: 909.628.0880

Email Us: [customer@xtremepowerusa.com](mailto:customer@xtremepowerusa.com)

Hours of Operation: 9am - 4pm (Monday - Friday)

**PRODUCT MADE IN CHINA**