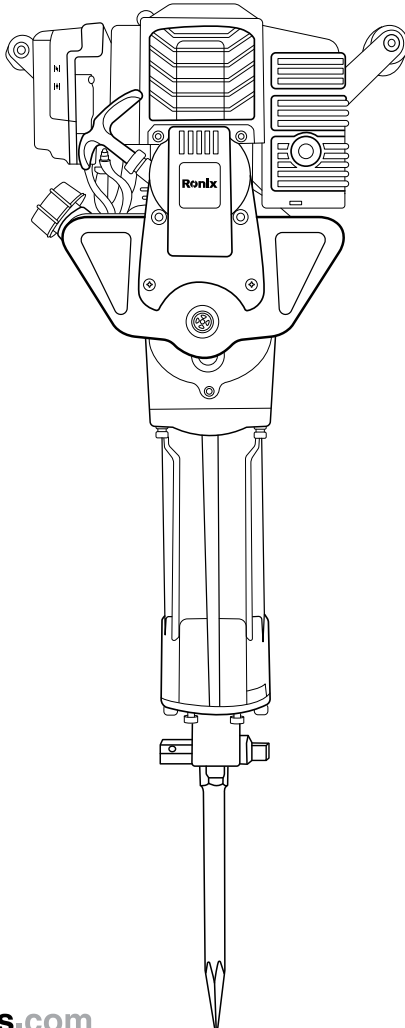


# Ronix<sup>®</sup>

Premium Quality

## GASOLINE DEMOLITION HAMMER 2890

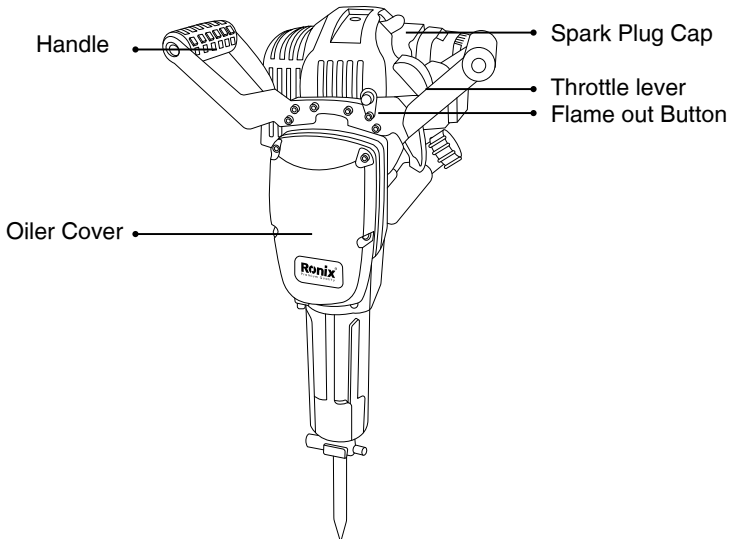
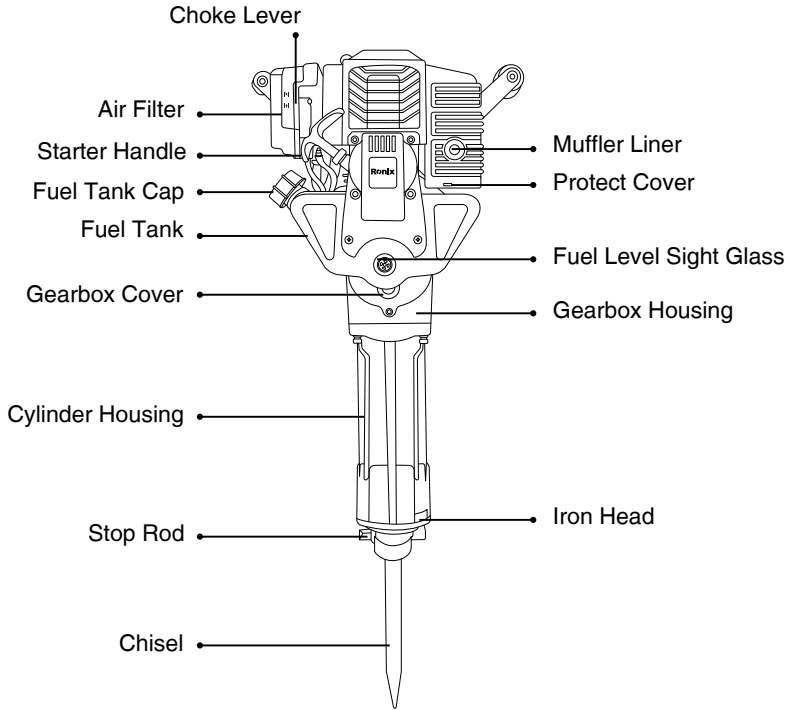




## TECHNICAL SPECIFICATION

Model	<b>2890</b>
Engine Power	1500W
Engine Type	Single cylinder, air cooling, 2 stroke, Xstroke of cylinder Diameter; 44×34mm
Fuel Tank Capacity	1300ml
Fuel/Oil Ratio	Ratio: two-stroke engine oil Gasoline= 1 / 25
Carburetor Type	H119-6A-00-210
Fuel Consumption Rate	≤0.6 l/h
Displacement	52 cc
Maximum no-Load Speed	9000RPM
Ignition System	BM6A
Starting System	Hand pull start
Chuck Type	Hex
Chuck Size	30mm
Impact Energy	20-55 J
Impact Rate	700-1350 BPM
Dimensions (Lxwxh)	690mm×370mm×270mm
Engine Noise Level	108 Db
Weight	16.4Kg
Supplied in	BMC
Includes	1pc pointed chisel 30×410mm 1pc flat chisel 30×410mm Toolkit (including 1pc T wrench, 1pc sparkplughandle) 1pc M10 Allen wrench, 1pc M8 Allen wrench, 1pc straight screwdriver, 1pc spark plug) 1pc Special grease for cylinder (30g) 1pc Ratio oil can

## PART LIST



**! WARNING!**

Before using our products, please read this manual carefully to understand the proper use of your unit.

## **WARNING LABELS ON THE MACHINE**

### **SYMBOLS**



Please read and maintains this manual.



Use hearing protection.



Use a mask.



Use eye protection.



Wear safety shoes.



Warning / Attention!

### **■ FOR SAFE OPERATION**

1- Read this manual carefully until you completely understand and follow all safety and operating instructions.

2- Keep this manual handy so that you may refer to it later when ever any questions arise. Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the product.

3- Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.

4- Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.

## ■ WORKING CONDITION

1- When using the product, you should wear proper clothing and protective equipment

- (a) Helmet
- (b) Ear protectors
- (c) Protection goggles or face protector
- (d) Thick work gloves
- (e) Non-slip-sole work boots

2- Do not wear loose clothing, jewelry, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so it is above shoulder length.

## ■ WORKING CIRCUMSTANCE

1- Never start the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.

2- Never use the product

- when the ground is slippery or when you can't maintain your balance
- At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.
- During rain storms, during lightning storms, at times of strong or gale force winds, or at any other times when weather conditions might make it unsafe to use the product.
- No smoking, eating or using cell phone when you operate the machine.
- Maintain the handles dry and clean

## ■ WORKING PLAN

1- You shouldn't use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.

2- When planning your work schedule, allow plenty of time to rest. Limit the amount of time over which the product is to be used continuously to somewhere around 30~40 minutes per session, and take 10~20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day under 2 hours or less.

## ■ BEFORE STARTING THE ENGINE

1- The area within a perimeter of 15M of the person using the product should be considered a hazardous area into which no one should enter. If necessary, yellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure safety.

2- Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken glass.

### IMPORTANT!

- Remove any obstacle that may throwing, before start work.
- Inspect the entire machine for loose fasteners and fuel leakage.

## ■ INSTRUCTION OF SAFE OPERATION

1- Balance the body when you operate the machine. Operating the machine in a right position as shown in Figure 1 instead of Figure 2.

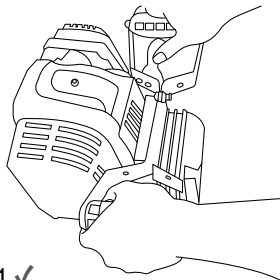


Figure 1 ✓

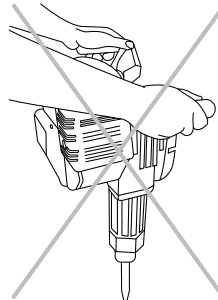


Figure 2 ✗

- 2- One-handed performance is not allowed after the machine is started.
- 3- Non-staff should keep away from the work area to avoid injury. The process of using machine may lead to gravel flying to non-staff.
- 4- Select medium-speed gasoline hammer to run for the best.
- 5- In the use of operation, the operator is not equal to the greater pressure crushing, tamping, compacting 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.
- 6- Gasoline hammer for crushing, tamping, compacting work, the work cannot be used to pry the stone.
- 7- If you stop the operation midway; you must turn off the engine.
- 8- Don't use Pure gasoline for two-stroke engine, fuel must match according to the engine type.
- 9- It's important to get your fuel-to-oil ratios right when mixing two stroke fuel. Too much oil, and your engine may struggle to starting or running and too little oil, and your engine may sustain permanent internal damage and overheating. best recommended fuel / oil ratio is 50:1.  
( One gallon of gasoline combined with 2.6 oz of two cycle engine oil )
- 10- Gasoline is highly flammable, so to refuel in a well ventilated environment. When you add fuel, please stop gasoline engine.
- 11- Do not add fuel too full, do not leave the fuel filler in neck part of machine. If overflow or spilled fuel. Clean it or wait the fuel all volatilize, then you can start the machine.
- 12- After refueling, tighten the fuel cap. Please check frequently whether the fuel tank is damaged to leak, if found damaged replace immediately.
- 13- Reserve fuel in storage areas. Remove all the root causes of fire or cause sparks.
- 14- In closed work areas, such as tunnels, when using gasoline tools, ensure there is sufficient fresh air. Exhaust gas contains carbon monoxide, and it's dangerous, so bring an electric fan for air flow.
- 15- Quickly acceleration or sudden braking is not allowed, so as not to damage the machine.
- 16- For Transferring long-distance transport, should be emptying



the fuel tank.

17- unqualified person should not dismantle the gasoline hammer to avoid structural damage to the parts, and further resulting in shortened life of gasoline hammer or accidents.

## **USAGE AND MAIN FEATURE**

### **■ USE**

- 1- It suitable for crushing of building construction, road building projects and railway road and tamp sleeper works
- 2- Break cornerstone and tunnel construction works.
- 3- For embedded telecommunications cables and power tower works.
- 4- Ice-breaking works in cold water and frozen regions with a digging shovel.

### **■ FEATURES**

- 1- It is the world's lightest weight, lowest emission engine type hand-held gasoline hammer.
- 2- A perfect torque and power linear operation, minimizing the hands vibration and offer significant control. The operator can shovel digging a 360-degree rotation with convenience and comfort.
- 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 applicable to a variety of conditions, such as crashing projects in road-building, electric power, telecom, and cable ditch.

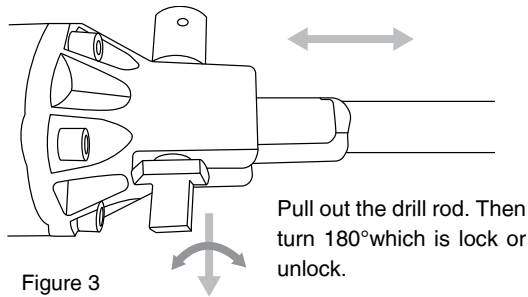
Advantage: If you use our machine, then you can ignore the trouble of the heavy equipment like diesel engine, air compressor, trucking-lorry, which will not limited by the pipe line, electric line, cable no matter how high and how far, we can work in kinds of environment.

## PREPARED WORK BEFORE USING

### - INSTALLATION

1- For inserting the Chisel, pull the stop rod according to the direction of arrow, and lock or loosen the drill rod after rotation for 180°. make sure the Chisel is locked up .(see Figure 3).

2- For Pulling out the Chisel, do step 1.



### ■ FUEL

please be aware of that Don't use Pure gasoline for two-stroke engine, for this purpose use mixture of fuel and oil.

### ⚠ WARNING!

Never use or mix four-cycle engine oil instead of two-cycle engine oil.

## RECOMMENDED MIXING RATIO

Conditions	Gasoline: engine oil
Work within 20 hours	20:1
	One gallon of gasoline combined with 6.4 oz of two-cycle engine oil
Work after 20 hours	25:1
	One gallon of gasoline combined with 5 oz of two-cycle engine oil

- 1- Prohibit the use of pure gasoline without adding oil for two-stroke engine.
- 2- Use appropriate place with well air ventilation for refueling
- 3- Do not add fuel too full, do not leave the fuel filler in neck part of machine. If overflow or spilled fuel. Clean it or wait the fuel all volatilize, then you can start the machine.
- 4- After refueling, tighten the fuel tank cap.

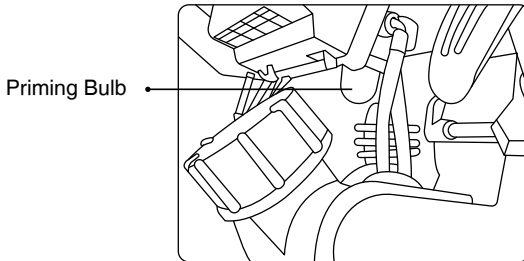


Figure 4

## START

- 1- Before first starting of the new machine, repeat press the transparent priming bulb (See Figure 4) to fully fill the Carburetor with fuel.
- 2- Hold the machine handle with one of your hands 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.
- 3- Open the air vent completely when the gasoline engine is started.

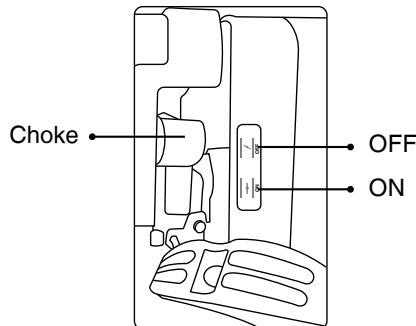


Figure 5

## ■ RUN

- 1- After the gasoline engine starts, it should run at low speed for 2 to 3 minutes to preheat the machine.
- 2- When the gasoline engine warm According to the work required impact energy, pull the Throttle lever and start working.

## ⚠ NOTE:

- For Work within less than 24 hours, the workload should be in low-speed in order to extent the service life.
  - Just start poor lubrication of gasoline, do not accelerate quickly.
- 3- Select medium-speed gasoline engine run for the best.
  - 4- Do not use the gasoline hammer with high-speed operation for hard materials.

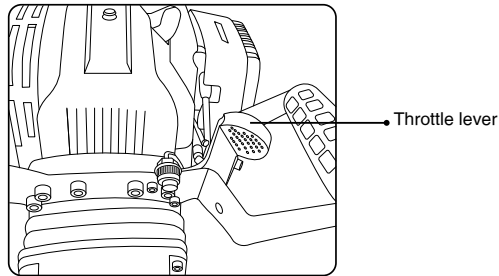


Figure 6

## ■ STOP MACHINE

- 1- Loosen the Throttle lever, and let the machine runs for 1-2 minutes.
- 2- Press the red button (Flame-out Button) to stop the machine. (See Figure 7)

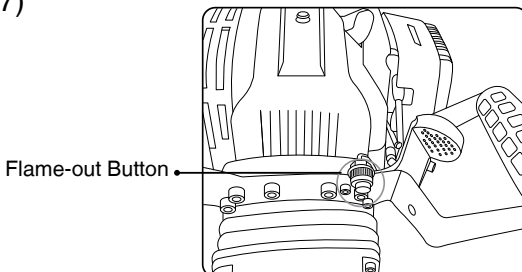


Figure 7

## TECHNICAL MAINTENANCE

### AIR FILTER

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

### FUEL FILTER

If the fuel filter is clogged, the machine will be slowed down and impact energy will be weakened. Method:

- 1- Open the tank cap (See Figure 8) with metal hook (See Figure 9,10), take the fuel filter cleaning from the tank.
- 2- When cleaning the fuel filter, clean the fuel tank at same time.

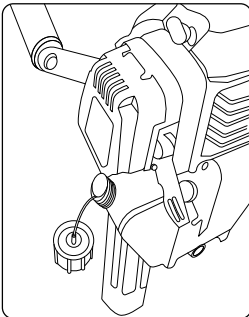


Figure 8

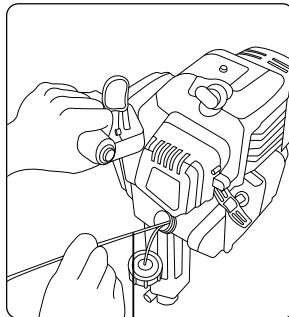


Figure 9

Metal Hook

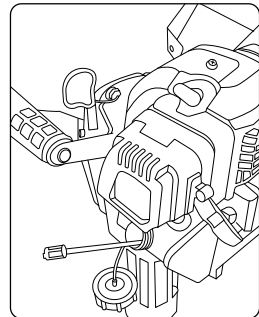


Figure 10

### CARBURETOR

Fuel tank and carburetor will generally have left residual fuel. After a certain period, the residual fuel will come into rubbish and the rubbish will plug the fuel 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.

### ■ 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. (See Figure 11)

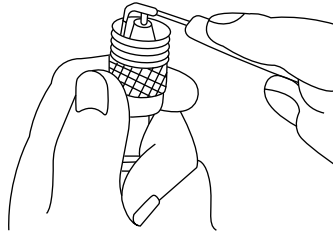


Figure 11

### ■ MUFFLER

To maintenance muffler, use a screwdriver and wire brush to remove rubbish on the body or the rubbish on the coke muffler exhaust.

### ■ GEAR BOX GREASE

Open the gearbox cover, add grease to drive gear on a regular basis to ensure full gear lubrication. After the machine has run for cumulatively 50 hours, 50g of special grease shall be refueled to the impact air cylinder. (See Figure 12 )

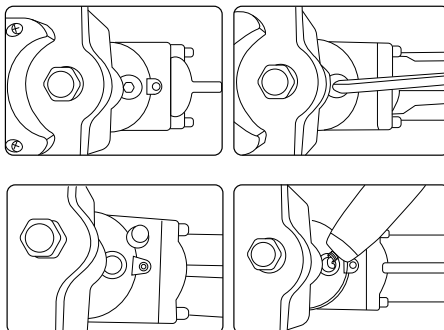


Figure12

## ■ THE CYLINDER COOLING FIN

Regularly to remove dust, to ensure the cylinder cooling, this gasoline hammer is air-cooler type, if the cylinder dust accumulates on the cooling fin will directly affect the cooling effect.

## ■ FAILURE ANALYSIS AND TROUBLESHOOTING METHODS

Example1: 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 fuel 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

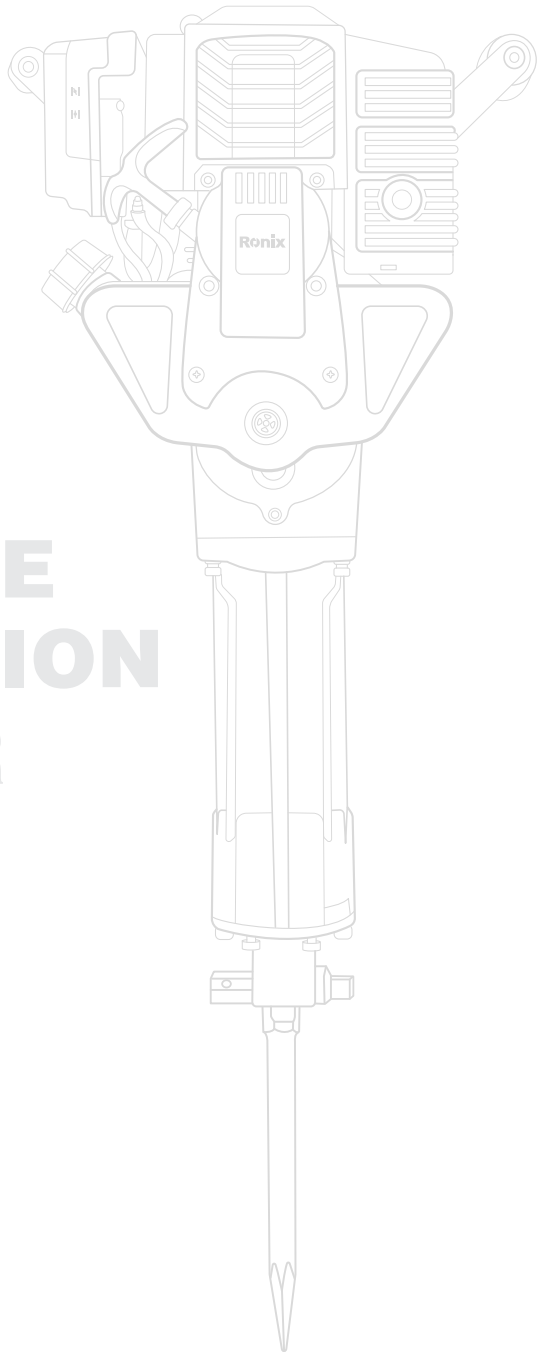
## MAINTENANCE CYCLE

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 fuel	Every Week	Every Month	Broken Down	If necessary
The whole machine	Outlook check (state, stabilities of screws)	•		•				
	Cleaning		•					
Throttle lever / Flame-out 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 grease							•
Lubricating fuel Tank	Check	•						
	Clean					•		
	Add grease							•
Chisel	Check Sharpness	•						
	Sharpen or Forge							•
	Replace						•	
Silencer	Check					•		
	Remove carbon deposit							•
Cylinder Cooling Fin	Check					•		
	Clean							•
Lignite Plug	Check/Adjust Customize the distance between electrodes					•		
	Replace							•
Screw and Nut	Check	•		•				
	Tighten							•

# GASOLINE DEMOLITION HAMMER







[www.ronixtools.com](http://www.ronixtools.com)