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Black（单色印刷）	
折叠方式： 风琴折 （ 20P 以下用风琴折 ）/ 骑马钉 （ 20P 以上用骑马钉 ） 特殊情况：16P/20P：风琴折 + 对折	备注：
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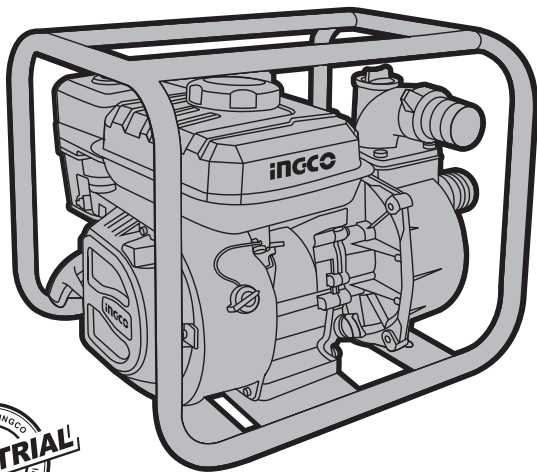
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**PRODUCT
MANUAL**

GASOLINE WATER PUMP



GWP202 GWP302 GWP402 GWP412



SCAN FOR VIDEO

Original Instructions

THE SYMBOLS IN INSTRUCTION MANUAL

	Read the instruction manual before using.
	Wear safety glasses, hearing protection and dust mask.
	Safety alert. Please only use the accessories supported by the manufacturer
	Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.
	Stay clear of the hot surface.
	Fire, open flame and smoking prohibited.
	Stop the engine before refueling.
	Exhaust gas is poisonous. Do not operate in an unventilated area.
	On (Run)
	Plus; Positive polarity

	Off (Stop)
	Engine oil
	Add oil

IMPORTANT SAFETY INFORMATION

Water pump are designed to pump only water that is not intended for human consumption, and other uses can result in injury to the operator or damage to the pump and other property. Most accidents can be prevented if you follow all instructions in this manual and on the pump. The most common hazards are discussed below, along with the best way to protect yourself and others.

Operator responsibility

It is the operator's responsibility to provide the necessary safeguards to protect people and property. Know how to stop the pump quickly in case of emergency. If you leave the pump for any reason, always turn the engine off. Understand the use of all controls and connections. Be sure that anyone who operates the pump receives proper instruction. Do not let children operate the pump. Keep children and pets away from the area of operation.

Pump operation

Pump only water that is not intended for human consumption. Pumping flammable liquids, such as gasoline or fuel oils, can result in a fire or explosion, causing serious injury. Pumping sea water, beverages, acids, chemical solutions, or any other liquid that promotes corrosion can damage the pump.

Refuel with care

Gasoline is extremely flammable, and gasoline vapor can explode. Refuel outdoors, in a well-ventilated area, with the engine stopped and the pump on a level surface. Do not fill the fuel tank above the fuel strainer shoulder. Never smoke near gasoline, and keep other flames and sparks away. Always store gasoline in an approved container. Make sure that any spilled fuel has been wiped up before starting the engine.

Hot exhaust

The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before transporting the pump or storing it indoors. To prevent fire hazards, keep the pump at least 3 feet (1 meter) away from building walls and other equipment during operation. Do not place flammable objects close to the

engine.

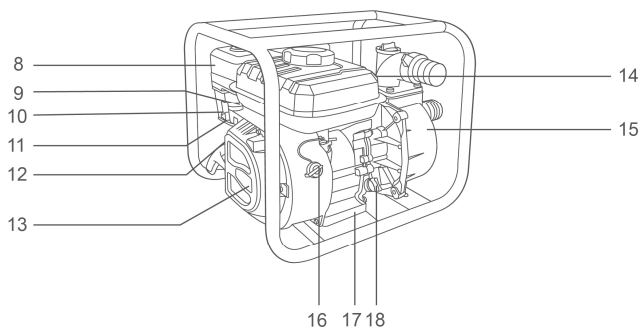
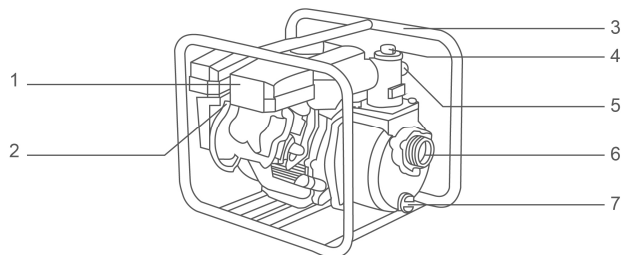
Carbon monoxide hazard

Exhaust gas contains poisonous carbon monoxide. Avoid inhalation of exhaust gas. Never run the Engine in a closed garage or confined area.

SAFETY LABEL LOCATIONS

The labels shown here contain important safety information. Please read them carefully. These labels are considered permanent parts of your pump. If a label comes off or becomes hard to read, contact an authorized servicing dealer for a replacement.

SPECIFICATIONS



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Components list

- | | |
|------------------------|---------------------------------|
| 1. Muffler | 10. Chock lever |
| 2. Spark plug | 11. Fuel cock |
| 3. Frame | 12. Recoil Starter handle |
| 4. Plug (priming) | 13. Recoil starter |
| 5. Delivery | 14. Fuel tank |
| 6. Suction | 15. Casing cover |
| 7. Plug (drain) | 16. Stop Switch |
| 8. Air cleaner | 17. Drain plug (at two places) |
| 9. Speed control lever | 18. Oil filler (with oil gauge) |

Accessories

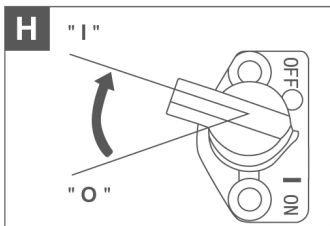
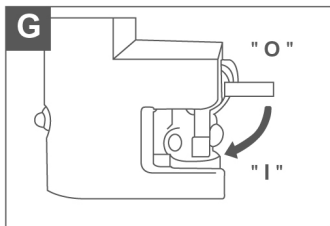
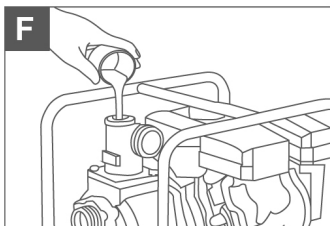
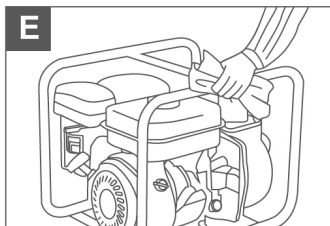
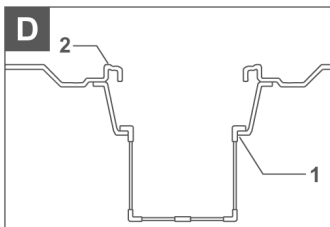
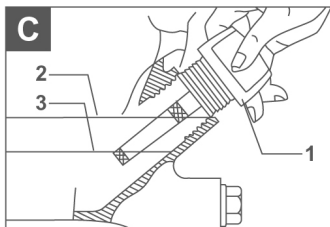
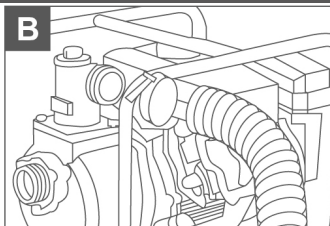
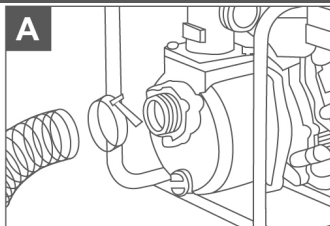
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| 19. Strainer | 22. Hose band |
| 20. Cushion rubber | 23. Tools |
| 21. Hose coupling | 24. Instruction for use (This publication) |

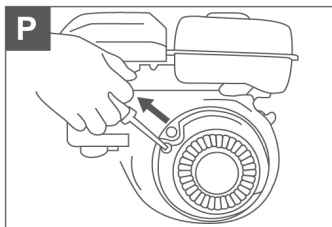
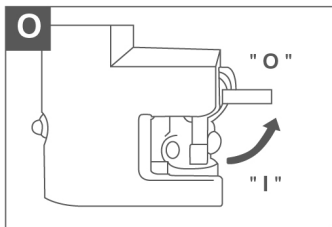
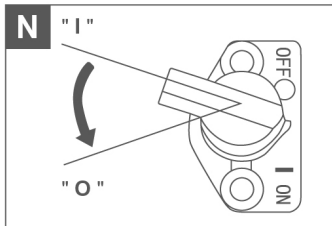
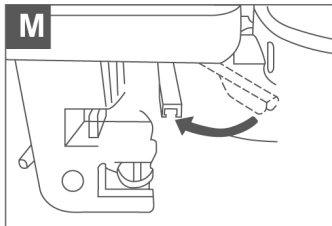
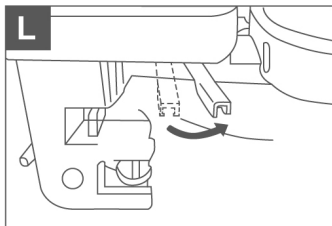
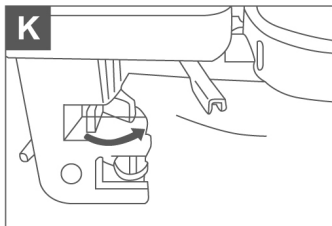
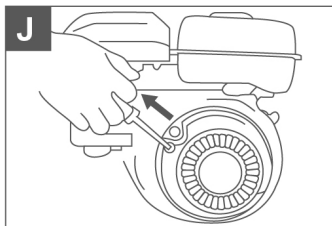
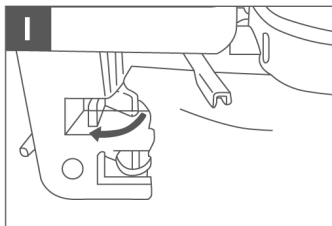
Technical specifications

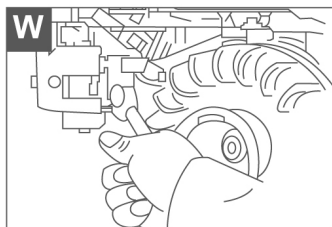
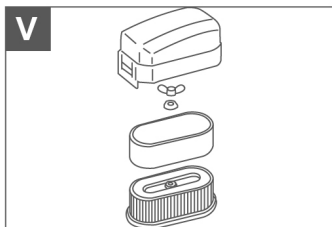
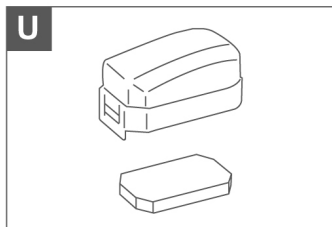
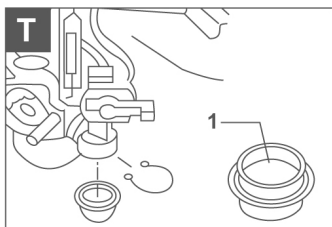
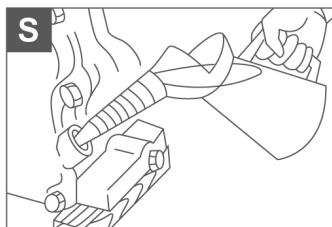
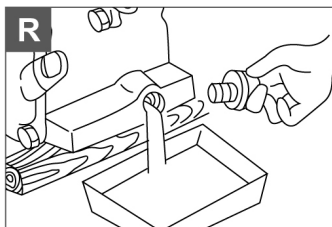
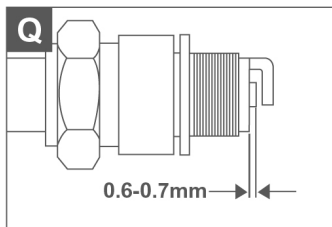
Model No.		GWP202	GWP302
Pump	Max. head	32m/104.5feet	32m/104.5feet
	Max.suction	8m/26feet	8m/26feet
	Max. flow	550L/min 143.5Gal/min	1000L/min 261Gal/min
	Suction size	50mm/2"	80mm/3"
	Discharge size	50mm/2"	80mm/3"
Engine	Max. Power	7.0HP	7.0HP
	Displacement	208cc	208cc
	Fuel capacity	3.6L/1Gal	3.6L/1.0Gal
	Oil capacity	0.6L/0.16Gal	0.6L/0.16Gal
	Lubricant	SAE/10W-30	SAE/10W-30
	Starting system	Recoil	Recoil
	Fuel consumption (g/kW·h)	<395g/kW.h	<395g/kW.h
Package	Dimension[LXWXH]	485x390x415mm	520x390x435mm
	Dry weight	20.27kg	23.3kg

	Model No.	GWP402	GWP412
Pump	Max. head	30m/98.4feet	29m/95.1feet
	Max.suction	8m/26feet	8m/26feet
	Max. flow	1500L/min 390Gal/min	1500L/min 390Gal/min
	Suction size	100mm/4"	100mm/4"
	Discharge size	100mm/4"	100mm/4"
Engine	Max. Power	9.0HP	7.5HP
	Displacement	270cc	223cc
	Fuel capacity	6L/1.58Gal	3.6L/1Gal
	Oil capacity	1.1L/0.29Gal	0.6L/0.16Gal
	Lubricant	SAE/10W-30	SAE/10W-30
	Starting system	Recoil	Recoil
Package	Fuel consumption (g/kW·h)	<395g/kW.h	<395g/kW.h
	Dimension[LXWXH]	630x465x530mm	600x440x485mm
	Dry weight	39.2kg	29kg

OPERATION PICTURE







OPERATION

Connect suction hose (see Figure A)

Use a reinforced-wall or wire braided hose to prevent suction collapse. Since the pump self-priming time is directly proportional to hose length, a short hose is recommended.

WARNING

Always use a strainer with the suction hose. Gravel or debris sucked into the pump will cause serious damage to the impeller and the pump casting.

Connect delivery hose (see Figure B)

When using a fabric hose, always use a hose band to prevent the hose from disconnecting under high pressure.

Check engine oil (see Figure C)

- 1) Before checking or refilling engine oil, be sure the engine is located on stable, level surface and stopped.
- 2) Do not screw the oil gauge into the oil filler neck to check oil level. If the oil level is low, refill to the upper level with the following recommended oil.
- 3) Use 4-stroke automotive detergent oil of API service class SE or higher grade (SG, SH or SJ is recommended).
- 4) Select the viscosity based on the air temperature at the time of operation as shown in the table.

Ambient temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C
Single grade	5W						
		10W					
			20W				
			#20				
				#30			
					#40		
Multi grade		10W-30					
		10W-40					

Explanation of Figure C

a) Oil Gauge

b) Upper Level

c) Lower Level

Check fuel (see Figure D)

WARNING

Do not refuel while smoking, near an open flame or other such potential fire hazards. Otherwise, fire accident may occur.

- 1) Stop the engine and open the cap.
- 2) Use automotive unleaded gasoline only.

This engine is certified to operate on automotive unleaded gasoline.

Fuel Tank Capacity

- 1) Close the fuel cock before filling the fuel tank.
- 2) Do not fill above the top of the fuel filter screen (marked w), or the fuel may overflow when it heats up later and expands.
- 3) When filling the fuel tank, always use the fuel filter screen.
- 4) Wipe off any spilled fuel before starting the engine. (see Figure E)

Check priming water (see Figure F)

It is recommended that the water chamber of pump casing should be primed with full of water before operating.

WARNING

Never attempt to operate the pump without priming water or the pump will overheat. Extended dry operation will destroy the mechanical seal.

If the unit has been operated dry, stop the engine immediately and allow the pump to cool before adding priming water.

Starting

- 1) Open the fuel cock. (see Figure G)
- 2) Turn the STOP SWITCH to the position " I " (ON). (see Figure H)
- 3) Close the choke lever. (see Figure I)
- 4) If the engine is cold or the ambient temperature is low, close the choke lever fully.
- 5) If the engine is warm or the ambient temperature is high, open the choke lever half-way, or keep it fully open.
- 6) Pull the starter handle slowly until resistance is felt. This is the " compression " point. Return the handle to its original position and pull swiftly. Do not pull out the rope all the way. After starting the engine, allow the starter handle to return to its original position while still holding the handle. (see Figure J)

- 7) After starting the engine, gradually open choke by turning the choke lever and finally keep it fully opened. Do not fully open the choke lever immediately when the engine is cold or the ambient temperature is low, because the engine may stop. (see Figure K)

Running

- 1) After the engine starts, set the speed control lever at the low-speed position (L) and warm it up without load for a few minutes. (see Figure L)
- 2) Gradually move the speed control lever toward the high-speed position (H) and set it at the required engine speed. (see Figure M)
- 3) Whenever high-speed operation is not required, slow the engine down (idle) by moving the speed control lever to save fuel and extend engine life.

Stopping

- 1) Set the speed control lever at the low-speed position and allow the engine to run at low speed for 1 or 2 minutes before stopping.
- 2) Turn the STOP SWITCH counterclockwise to the position (OFF). (see Figure N)
- 3) Close the fuel cock. (see Figure O)
- 4) Pull the starter handle slowly and return the handle to its original position when resistance is felt. This operation is necessary to prevent outside moist air from intruding into the combustion chamber. (see Figure P)

Stopping engine with the fuel cock

Close the fuel cock and wait for a while until the engine stops. Avoid to let the fuel remain in the carburator over long periods, or the passages of the carburator may become clogged with impurities, and malfunctions may result.

Inspecting the spark plug (see Figure Q)

- 1) Clean off carbon deposits on the spark plug electrode using a plug cleaner or wire brush.
- 2) Check electrode gap. The gap should be 0.6 mm to 0.7 mm. Adjust the gap, if necessary, by carefully bending the side electrode.

Engine oil change (see Figure R&S)

Initial oil change: After 20 hours of operation

Thereafter: Every 100 hours of operation

- 1) When changing oil, stop the engine and loosen the drain plug. Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

WARNING

To prevent injury, pay attention to the hot oil. Make sure the fuel cap is tightly secured to avoid spillage.

- 2) Re-install the drain plug before refilling oil.
- 3) Refer to page 6 for the recommended oil.

Always use the best grade and clean oil. Contaminated oil, poor quality oil and shortage of oil cause damage to engine or shorten the engine life.

Cleaning fuel cup (see Figure T)

WARNING

Flame prohibited.

- 1) Inspect fuel cup for water and dirt.
- 2) To remove water and dirt, close the fuel cock and remove the fuel cup.
- 3) After removing dirt and water, wash the fuel cup with kerosene or gasoline. Reinstall securely to prevent leakage.

Cleaning air cleaner (see Figure U&V)

A dirty air cleaner element will cause starting difficulty, power loss, engine malfunctions, and shorten engine life extremely. Always keep the air cleaner element clean.

WARNING

Flame prohibited.

- 1) Urethane Foam Element Type (see Figure U)

Remove the element and wash it in kerosene or diesel fuel. Then saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Squeeze the element to remove the mixture and install it in the air cleaner.

- 2) Urethane Foam Dual Element Type (see Figure V)

- a) Urethane Foam cleaning

Wash and clean the urethane foam with detergent. After cleaning, dry it. Clean the urethane foam element every 50 hours.

b) Second element

Clean by tapping gently to remove dirt and blow off dust. Never use oil. Clean the paper element every 50 hours of operation, and replace element set every 200 hours.

Clean and replace air cleaner elements more often when operating in dusty environments.

Fuel hose replacement (see Figure W)

Replace the fuel hose every 1,000 hours or every year.

If fuel leaks from fuel hose, replace the fuel hose immediately.

** WARNING**

Take extreme caution when replacing fuel hose; gasoline is extremely flammable.

Checking bolts, nuts and screws

- 1) Retighten loose bolts and nuts.
- 2) Check for fuel and oil leaks.
- 3) Replace damaged parts with new ones.

Cleaning pump inside

- 1) Turn the knob counter clock wise and open the casing cover holder.
- 2) Pull the casing toward you, and then remove the casing and the inner casing.
- 3) Clean the inside of pump casing and casing cover with clean water.

MAINTENANCE&MALFUNCTIONS

Maintenance, replacement or repair of the emission control devices and systems may be performed by any nonroad engine repair establishment or individual.

Daily inspection

Before running the engine, check the following service items.

- 1) Loose or broken bolts and nuts
- 2) Clean air cleaner element
- 3) Enough clean engine oil
- 4) Leakage of gasoline and engine oil
- 5) Enough gasoline
- 6) Safe surroundings
- 7) Check the priming water
- 8) Excessive vibration, noise

Periodic maintenance is vital to the safe and efficient operation of your pump.

Check the table below for periodic maintenance intervals.

It is also necessary for the user of this pump to conduct the maintenance and adjustments on the emission-related parts listed below to keep the emission control system effective.

The emission control system consists of the following parts:

- 1) Carburetor and internal parts
- 2) Cold start enrichment system, if applicable
- 3) Intake manifold, if applicable
- 4) Air cleaner elements
- 5) Spark plug
- 6) Magneto or electronic ignition system
- 7) Spark advance/ retard system, if applicable
- 8) Exhaust manifold, if applicable.
- 9) Hoses, belts, connectors, and assemblies

The maintenance schedule indicated in the following table is based on the normal engine operation.

Should the engine be operated in extremely dusty condition or in heavier loading condition, the maintenance intervals must be shortened depending on the

contamination of oil, clogging of filter elements, wear of parts, and so on.

WARNING

Replace rubber pipes for fuel passage every two years. If fuel leakage is found, replace the pipe immediately.

Periodic maintenance schedule table

Maintenance items	Every 8 hours (Daily)	Every 50 hours (Weekly)	Every 200 hours (Monthly)	Every 500 hours	Every 1000 hours
Clean engine and check bolts and nuts	• (Daily) • (Refill daily up to upper level)				
Check and refill engine oil		• (Every 100 hours)			
Change engine oil (*Note 1)	• (Initial 20 hours)	• (Every 100 hours)			
Clean air cleaner		•			
Replace air cleaner element			•		
Clean fuel cup			•		
Clean and adjust spark plug and electrodes			•		

Replace spark plug		• (Every 100 hours)		•	
Remove carbon from cylinder head (*Note 2)				•	
Check and adjust valve clearance(*Note 2)				•	
Clean and adjust carburetor (*Note 2)				•	
Replace fuel lines					• (yearly)
Overhaul engine if necessary (*Note 2)					•

NOTE

1. Initial oil change should be performed after first twenty (20) hours of operation. Thereafter change oil every hundred (100) hours. Before changing oil, check for a suitable way to dispose of old oil. Do not pour it down into

sewage drains, onto garden soil or into open streams.

NOTE

2. As to the procedures for these items, please refer to the SERVICE MANUAL or consult your nearest service center.

Pump does not run

- 1) Engine does not start.
- 2) Sticking of impeller (Disassemble and clean.)

Pumping volume is small

- 1) Sucking air at suction side. (Check piping at suction side.)
- 2) Drop off engine output (Consult your nearest dealer.)
- 3) Breakage of mechanical seal. (Consult your nearest dealer.)
- 4) High suction lift (Lower.)
- 5) Suction hose is too long or thin. (Use a thick hose in minimum length.)
- 6) Leak of water from water passage. (Stop leaking.)
- 7) Clogging of foreign substance in impeller. (Disassemble and clean.)
- 8) Wear of impeller.
- 9) Looseness of suction chamber. (Retighten)
- 10) Strainer is clogged. (Clean.)
- 11) Engine speed is too low. (Consult your nearest dealer.)

Pump does not selfprime

- 1) Suction of air at suction side. (Check piping at suction side.)
- 2) Insufficient priming water inside pump casing (Prime fully.)
- 3) Imperfect tightening of drain plug. (Tighten the plugs completely.)
- 4) Engine speed is too low. (Consult your nearest dealer.)
- 5) Sucking air from mechanical seal. (Consult your nearest dealer.)

When engine does not start

Perform the following checks before you take the pump to your Robin dealer. If you still have trouble after completing the checks, take the pump to your nearest Robin dealer.

- 1) Is there a strong spark across the electrode?
 - a) Is the stop switch at position "I" (ON)?

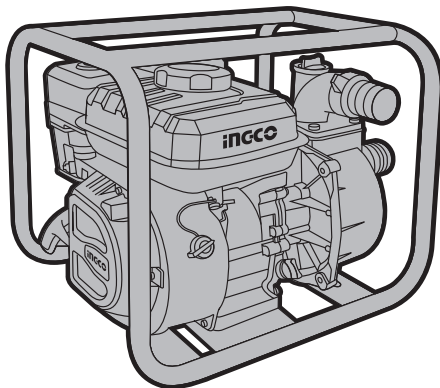
- b) Remove and inspect the spark plug.
If the electrode is fouled, clean or replace it with new one.
- c) Remove the spark plug and connect it to the plug cap. Pull the starter handle while grounding spark plug against engine body. Try with a new spark plug if the spark is weak or there is no spark.
The ignition system is faulty if there is no spark with a new spark plug.

2) Is there enough compression?

** WARNING**

Wipe out spilled fuel carefully before testing. Place spark plug as far away from spark plug hole as possible.

Do not hold spark plug by hand while pulling recoil starter.



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NEWWAY TECHNOLOGY (SUZHOU) CO., LIMITED

No. 20 Dagang Road, Fuqiao Town, Taicang City, China