

HONDA WATER PUMP WB15

OWNER'S MANUAL

Thank you for purchasing a Honda Water pump.

This manual covers the operation and maintenance of the WB15 water pump. All information in this publication is based on the latest product information available at the time of approval for printing.

Honda Motor Co., Ltd. reserves the right to make changes at any time without notice and without incurring any obligation.

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This manual should be considered a permanent part of the pump and should remain with the pump if it is sold.

Pay special attention to statements preceded by the following words:

 WARNING Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

CAUTION: Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

If a problem should arise, or if you have any questions about the pump, consult an authorized Honda dealer.

 WARNING Honda water pump is designed to give safe and dependable service if operated according to instructions. Read and understand the Owner's Manual before operating the pump. Failure to do so could result in personal injury or equipment damage.

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1.SAFETY INSTRUCTIONS

WARNING

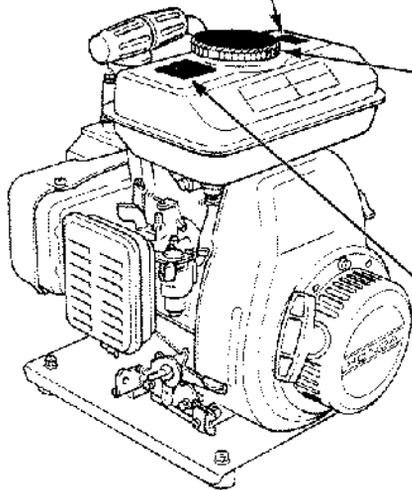
To ensure safe operation —

- To prevent fire hazards and to provide adequate ventilation, keep the pump at least 3 ft away from buildings and other equipment during operation.
- Do not place flammable objects such as gasoline, matches, etc., close to the pump while it is running.
- Refuel in a well ventilated area with the pump stopped. Gasoline is flammable and explosive under certain conditions.
- Do not overfill the tank. There should be no fuel in the filler neck. Make sure that the filler cap is closed securely.
- If any fuel is spilled, clean it up completely before starting the engine.
- Do not smoke or allow flames or sparks where the pump is refueled or where gasoline is stored.
- Exhaust contains poisonous carbon monoxide gas. Avoid inhalation of exhaust gases. Never run the pump in a closed garage or confined area.
- Operate the pump on a level surface. If the engine is tilted, fuel spillage may result.
- Nothing should be placed on the engine. It will cause fire hazards.
- A spark arrester is provided as an optional part for this pump. It is illegal in some areas to operate an engine without a spark arrester. Check local laws and regulations before operating.
- Know how to stop the pump quickly and understand operation of all the controls. Never permit anyone to operate the pump without proper instructions.
- Keep children and pets away from the pump when it is in operation.
- Keep away from rotating parts while the pump is running.

2.WARNING LABEL LOCATION

WARNING

DO NOT PUMP FLAMMABLE
OR CORROSIVE MATERIALS.
AN EXPLOSION OR FIRE
COULD RESULT, CAUSING
SEVERE PERSONAL INJURY.



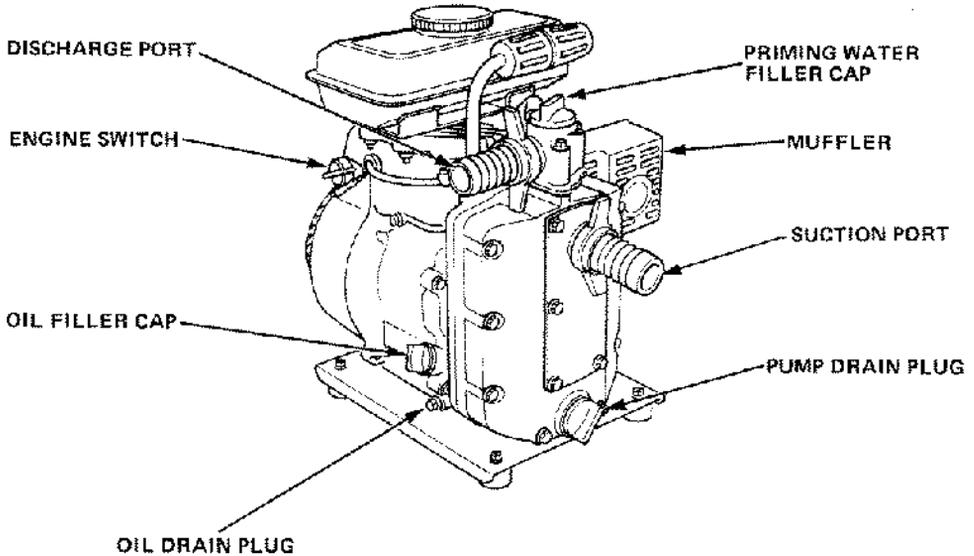
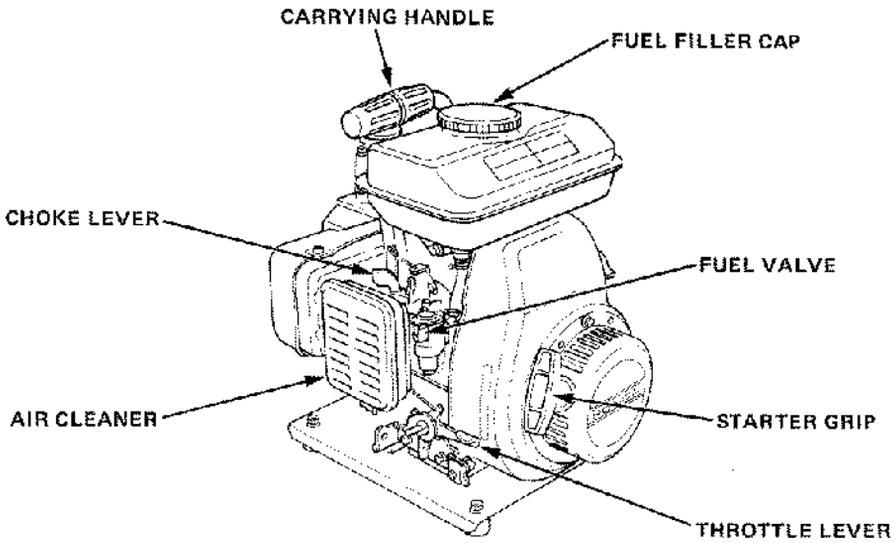
WARNING! DO NOT RUN WITHOUT
PRIMING WATER. DRY OPERATION
WILL BURN THE SEAL.

ACHTUNG! VOR DEM ANLAUFEN
BEI TESTUND LEERLAUF GEHÄUSE
MIT WASSER BEFÜLLEN. TROCKEN
AUF ZERSTÖRT DIE DICHTUNGEN!

ATENCIÓN! NO HAGA FUNCIONAR
SIN CEBADO FUNCIONAMIENTO
SECO QUEMA EL SELLO.

ATTENTION! NE FAITE PAS FON-
CTIONNER SANS AMORSAGE.
FONCTIONNEMENT AU SEC
BRULE LE JOINT D'ETANCHEITE.

3.COMPONENT IDENTIFICATION

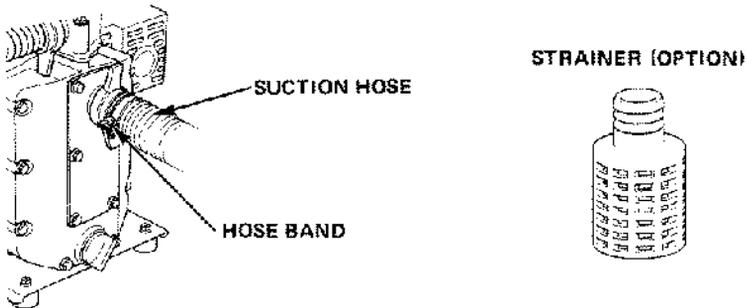


4. PREPARATION

1. Connect the suction hose.

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

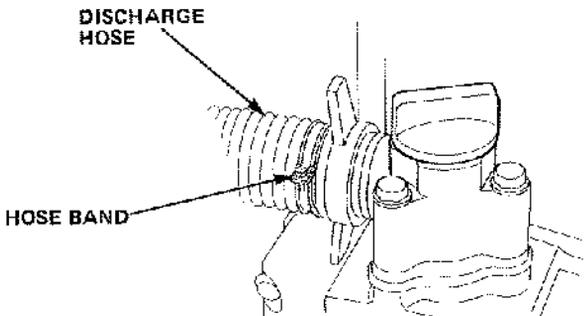
CAUTION: Always install the strainer on the end of the suction hose before pumping. Gravel or debris sucked into the pump will cause serious impeller damage.



2. Connect the discharge hose.

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

NOTE: A short, large-diameter hose will provide lower fluid friction and improve efficiency.



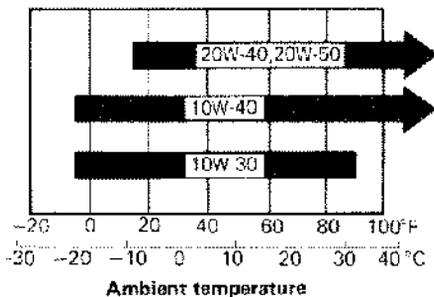
3. Check the engine oil level.

CAUTION:

- Engine oil is a major factor affecting engine performance and service life. Non-detergent or vegetable oils are not recommended.
- Be sure to check the engine on a level surface with the engine stopped.

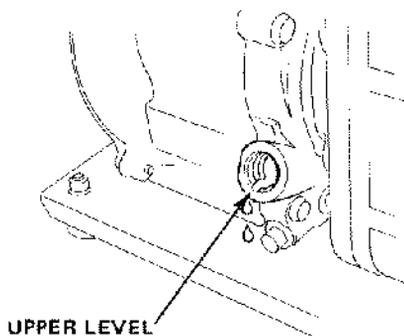
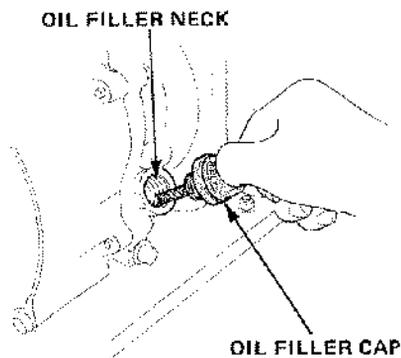
Use Honda 4-stroke oil, or an equivalent high detergent, premium quality motor oil certified to meet or exceed U.S. automobile manufacturer's requirements for Service Classification SE or SF, (Motor oils classified SE or SF will show this designation on the container.)

SAE 10W-40 is recommended for general, all-temperature use.



1. Remove the oil filler cap/dipstick and wipe it clean.
2. Insert the filler cap/dipstick into the oil filler neck, but do not screw it in.
3. If the level is low, fill to the top of the oil filler neck with recommended oil.

CAUTION: Running the engine with insufficient oil can cause serious engine damage.



4. Check the fuel level.

Use any regular grade automotive gasoline (unleaded gasoline is preferred) with a pump octane rating of 86 or higher.

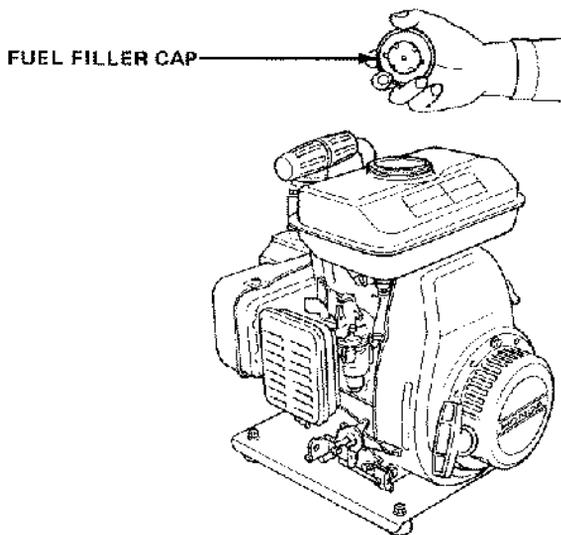
Never use an oil/gasoline mixture or dirty gasoline. Avoid getting dirt, dust or water in the fuel tank.

CAUTION: Gasoline substitutes are not recommended; they may be harmful to fuel system components.

WARNING

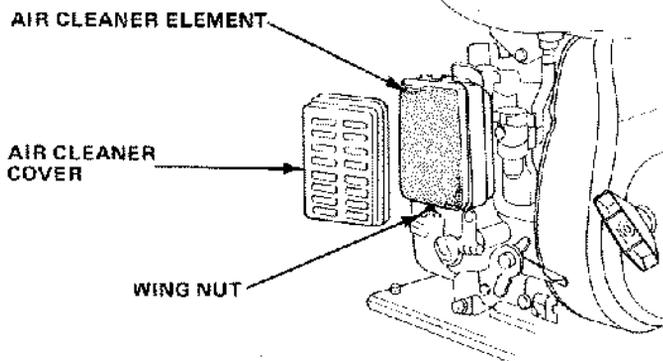
- Gasoline is extremely flammable and explosive under certain conditions. Refuel in a well ventilated area with the engine stopped.
- Do not smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the tank and make sure the filler cap is securely closed after refueling.
- Be careful not to spill fuel when refueling. Fuel vapor or spilled fuel may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.

Fuel tank capacity 1.4 lit (0.37 US gal. 0.31 Imp gal)



5. Check the air cleaner element.

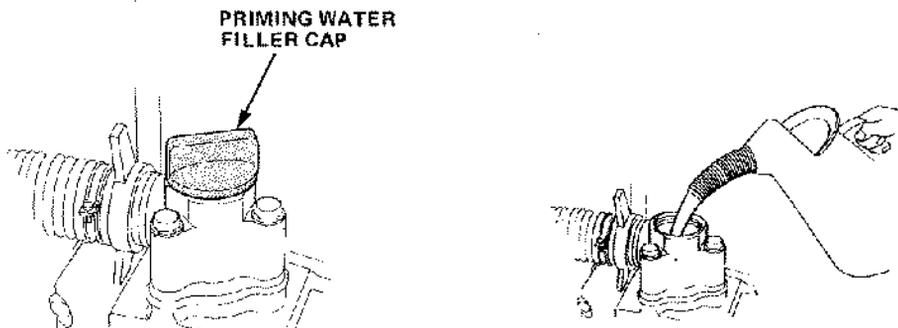
Loosen the wing nut and remove the air cleaner cover. Check the element for dirt or obstruction. Clean the element if necessary (See page 18).



6. Check the priming water

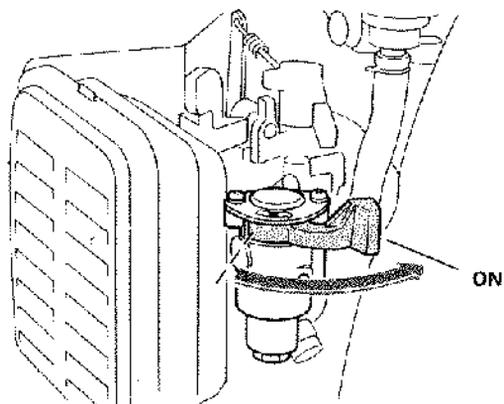
The pump chamber should be completely filled before operating.

CAUTION: Never attempt to operate the pump without priming water or the pump will overheat. Extended dry operation will destroy the pump seal. If the unit has been operated dry, stop the engine immediately and allow the pump to cool before adding priming water.



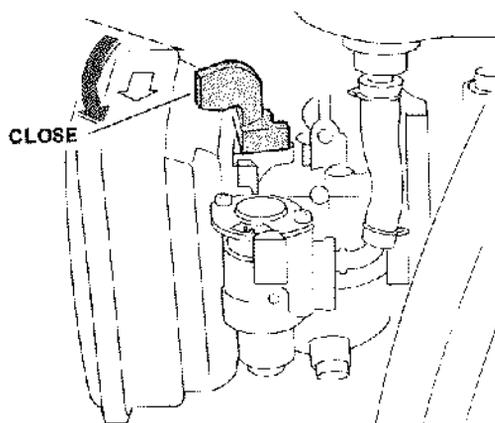
5. STARTING THE ENGINE

1. Turn the fuel valve ON.

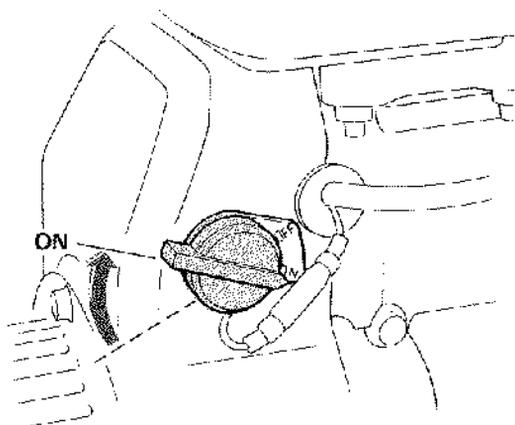


2. Close the choke lever

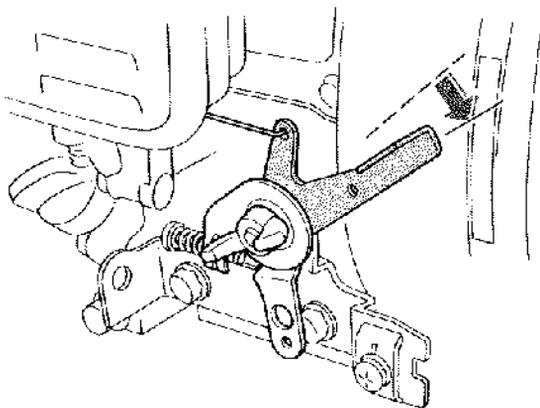
NOTE: If the engine is warm or the ambient temperature is high, open the choke lever as soon as the engine starts.



3. Turn the engine switch to the ON position.

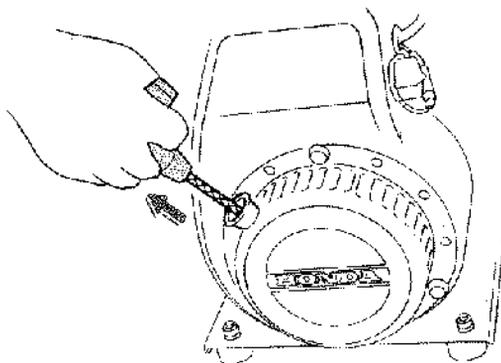


4. Move the throttle lever slightly to the right.

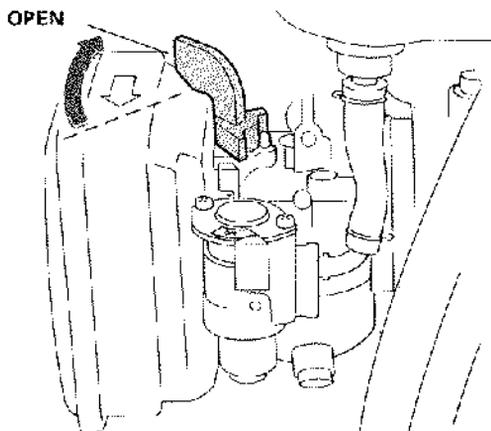


5. Pull the starter grip lightly until resistance is felt, then pull it briskly.

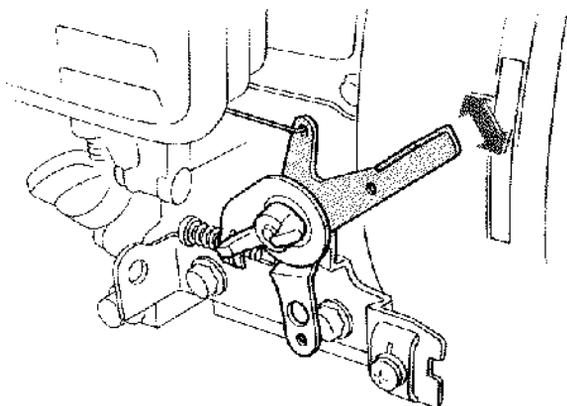
CAUTION: Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.



1. As the engine warms up, gradually open the choke.



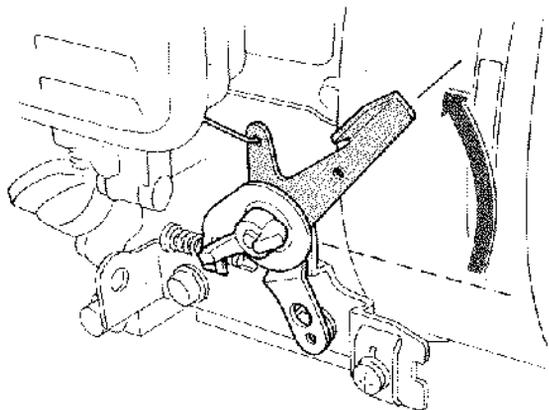
2. Set the throttle at the desired speed.



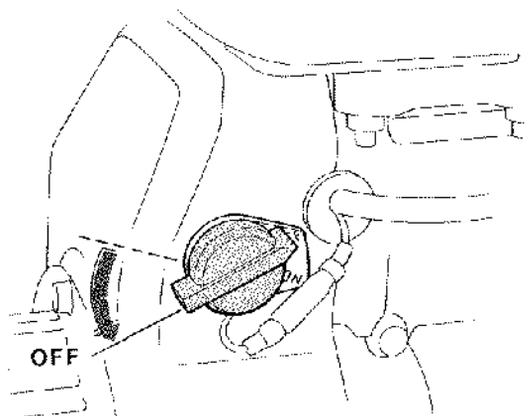
7.STOPPING THE ENGINE

NOTE: In an emergency, turn the engine switch to the OFF position immediately.

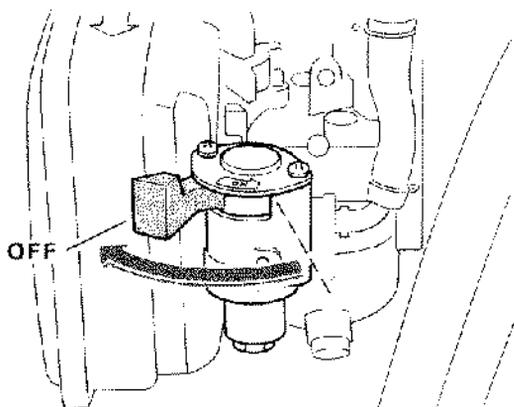
1. Move the throttle lever fully to the left.



2. Turn the engine switch to the OFF position.



3. Turn the fuel valve OFF.



8. MAINTENANCE

The purpose of the maintenance and adjustment schedule is to keep the engine in the best operating condition. Inspect or service as scheduled in the table below.

WARNING: Shut off the engine before performing any maintenance. If the engine must be run, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas.

CAUTION:

- If the pump has been used with sea water, muddy water, etc., pump clean, fresh water through the pump immediately afterward to reduce corrosion and remove sediment.
- Use only genuine HONDA parts or their equivalent. The use of replacement parts which are not of equivalent quality may damage the engine.

Maintenance Schedule

REGULAR SERVICE PERIOD Perform at every indicated month or operating hour interval, whichever occurs first.		Daily	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
ITEM						
Engine oil	Check level	○				
	Change		○		○	
Air cleaner element	Check	○				
	Clean			○(1)		
Spark plug	Clean-Readjust				○	
Valve clearance	Check-Readjust					○(2)
Combustion chamber and valves	Clean-Relap					○(2)
Fuel tank	Clean					○(2)
Fuel line	Check (Replace if necessary)			every 3 years		
Impeller	Check					○(2)
Casing cover	Check					○(2)
Inlet valve	Check					○(2)

NOTE (1): Service more frequently when used in dusty areas.

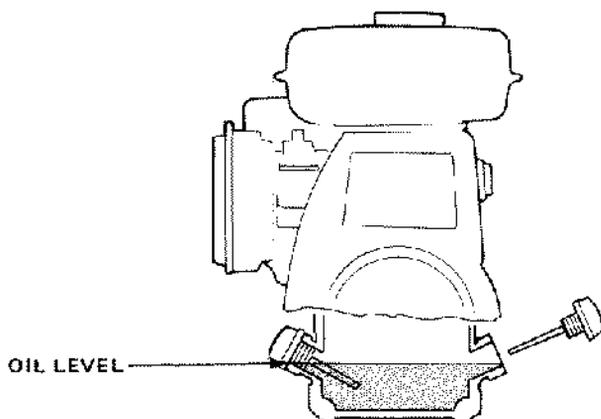
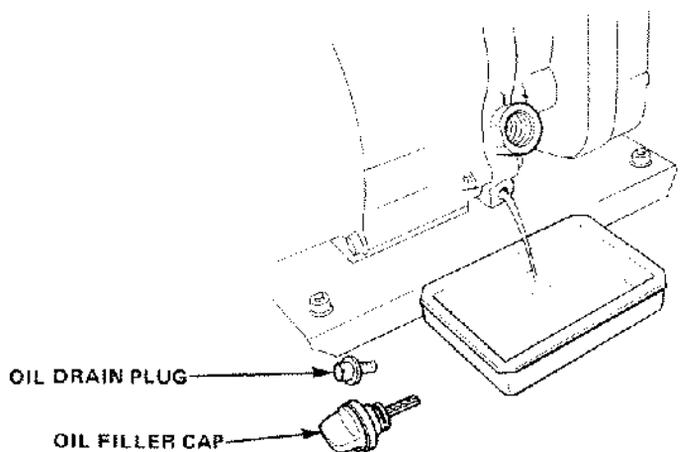
(2): These items should be serviced by an authorized Honda dealer, unless the owner has the proper tools and is mechanically proficient. See the Honda Shop Manual.

1. Changing oil

Drain the oil while the engine is still warm to assure rapid and complete draining.

1. Remove the oil filler cap and the drain plug, then drain the oil.
2. Reinstall the drain plug and tighten securely.
3. Refill with the recommended oil (see page 7) to the specified level.

OIL CAPACITY: 0.45 l (0.48 US qt)



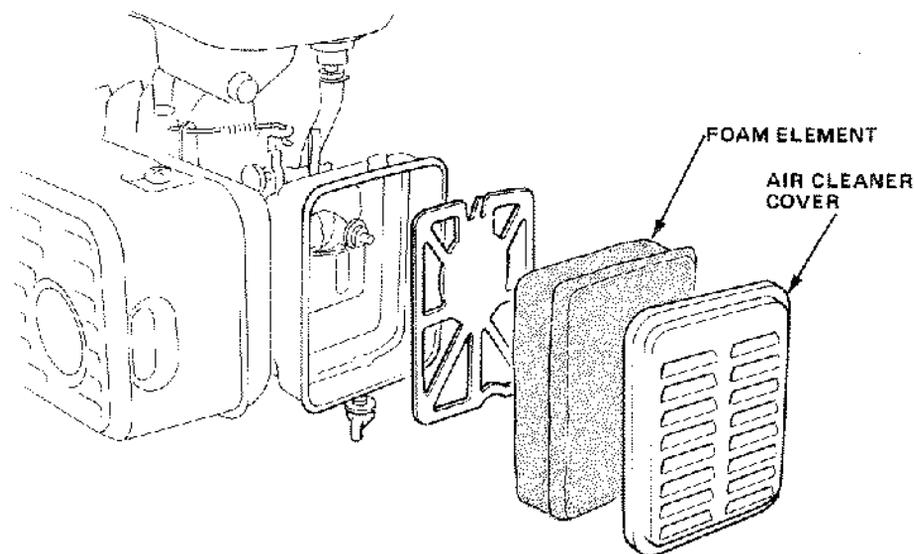
2. Air cleaner service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the pump in extremely dusty areas.

WARNING Never use gasoline or low flash point solvents for cleaning the air cleaner element. A fire or explosion could result.

CAUTION: Never run the pump without the air cleaner. Rapid engine wear will result.

1. Unscrew the wing nut, remove the air cleaner cover and remove the foam element.
2. Wash the element in a non-flammable or high flash point solvent and dry it thoroughly.
3. Soak the element in clean engine oil and squeeze out the excess oil.
4. Reinstall the air cleaner element and the cover.



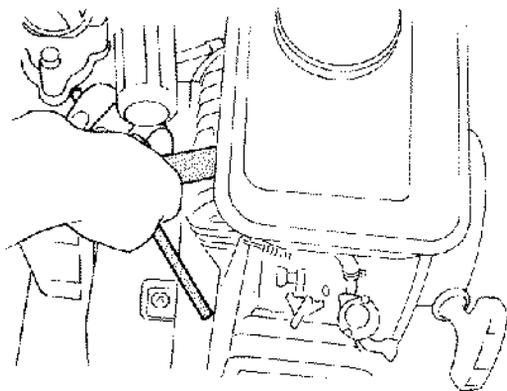
3. Spark plug service

Recommended spark plug: BMR4A (NGK)
W14MR-U (ND)

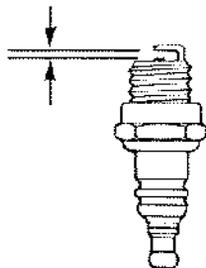
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

1. Remove the spark plug.

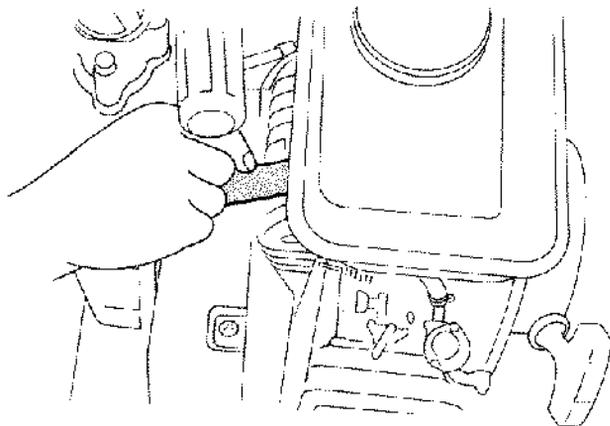
WARNING If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.



2. Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean the spark plug with a wire brush if it is to be reused.
3. Measure the plug gap with a feeler gauge. The gap should be 0.6 – 0.7 mm (0.024 – 0.028 in). Correct as necessary by bending the side electrode.



-
4. Thread the plug in by hand to prevent cross-threading.



5. Tighten a new spark plug $1/2$ turn with the wrench to compress the washer. If you are reusing a plug, it should only take $1/8$ – $1/4$ turn after the plug seats.

CAUTION: The spark plug must be securely tightened. An improperly tightened plug can become very hot and damage the engine. Never use a spark plug with an improper heat range.

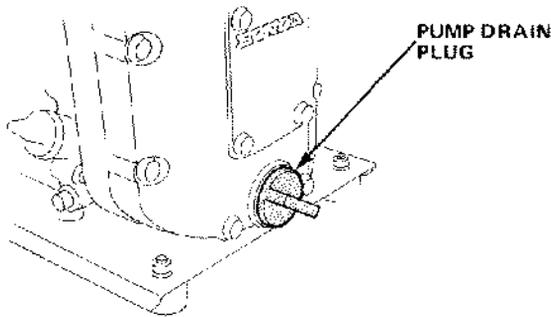
9. TRANSPORTING/STORAGE

WARNING When transporting the pump, turn the fuel valve OFF and keep the pump level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

Before storing the pump for an extended period;

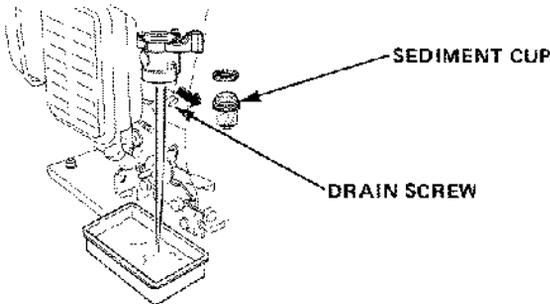
1. Be sure the storage area is free of excessive humidity and dust.
2. Clean the pump interior.

Sediment will settle in the pump if it has been used in muddy or sandy water, or water containing heavy debris. Pump clean water through the pump before shutting down or the impeller may be damaged when the pump is restarted. After flushing, remove the pump drain plug, drain as much water as possible from the pump housing and replace the plug.

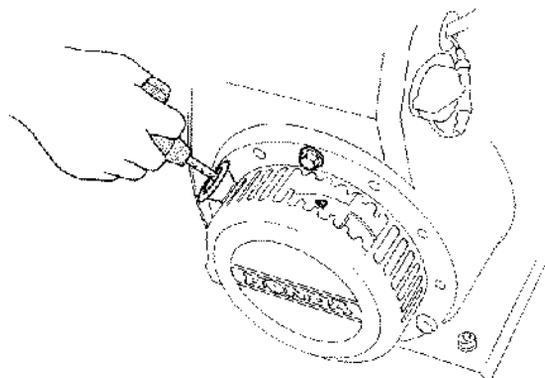


3. Drain the fuel.

- a. With the fuel valve OFF, remove the carburetor drain screw and drain the carburetor. Drain the gasoline into a suitable container.
- b. Reinstall the carburetor drain screw.
- c. Remove and clean the sediment cup on the fuel valve. Turn the fuel valve ON and drain the gasoline in the fuel tank into a suitable container.



-
4. Pull the starter cord until resistance is felt. Continue pulling until the notch on the starter pulley aligns with the hole on the recoil starter (see illustration below). At this point, the intake and exhaust valves are closed, and this will help to protect the engine from internal corrosion.



5. Change the engine oil if the unit is to be stored for more than one year.

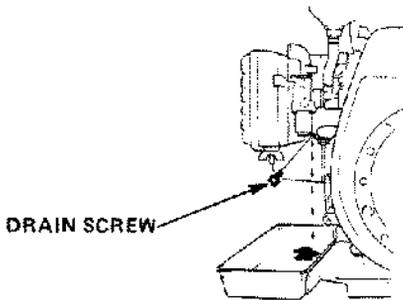
NOTE: If the pump will be stored for longer than 3 months, remove the spark plug and pour three tablespoons (approximately 1 oz.) of clean motor oil into the cylinder.

Pull the starter slowly to lubricate the cylinder wall. Reinstall the spark plug.

When the engine will not start:

1. Is the engine switch ON?
2. Is there enough fuel?
3. Is the fuel valve on?
4. Is gasoline reaching the carburetor?
To check, remove the drain screw and turn the fuel valve on.
Fuel should flow out freely.

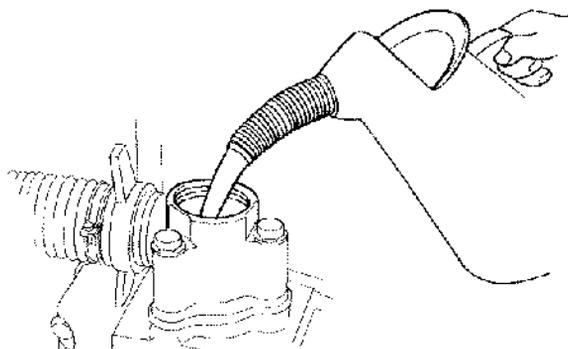
CAUTION If any fuel is spilled, make sure the area is dry before testing the spark plug or starting the engine. Fuel vapor or spilled fuel may ignite.



5. Is there a spark at the spark plug?
 - a. Remove the spark plug cap. Clean any dirt from around the spark plug base, then remove the spark plug.
 - b. Install the spark plug in the plug cap.
 - c. Turn the engine switch on.
 - d. Ground the side electrode to any engine ground, pull the recoil starter to see if sparks jump across the gap.
 - e. If there are no sparks, replace the plug.
If the new plug sparks, install it and try to start the engine according to the instructions.
6. If the new plug does not spark or if the engine still does not start, take the pump to an authorized Honda water pump dealer.

When the pump does not pump water:

1. Is the pump fully primed?



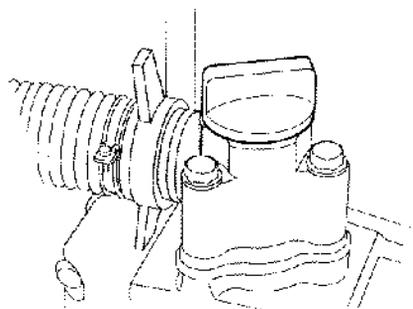
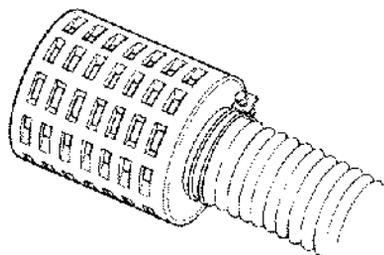
2. Is the strainer clogged?

3. Are the hose bands installed securely?

4. Are the hoses damaged?

5. Is the suction head too high?

6. If the pump still does not pump the water, take the pump to an authorized Honda water pump dealer.



11. SPECIFICATIONS

Dimensions and Weight

Length x Width x Height	335 x 270 x 350 mm (13.2 x 10.6 x 13.8 in)
Dry weight (mass)	13.0 kg (28.7 lb)

Engine

Model	G100
Engine type	4 stroke, side valve, 1 cylinder
Displacement [Bore x Stroke]	83 cc (5.1 cu. in) 48 x 46 mm (1.9 x 1.8 in)
Max. output	2.2 ps/4200 rpm
Max. torque	0.38 kg-m (2.7 ft-lb)/3000 rpm
Cooling system	Forced air
Ignition system	Transistorized magneto
PTO shaft rotation	Counterclockwise

Pump

Suction port diameter	38 mm (1.5 in)
Discharge port diameter	38 mm (1.5 in)
Rated revolutions	3800 rpm
Total head	38 m (124.7 ft)
Suction head	7 m (23.0 ft)
Capacity	200 l (53 US gal)/min
Self-priming time	120 sec at 5 m (16.4 ft)

12. WARRANTY SERVICE

Owner Satisfaction

Your satisfaction and goodwill are important to your dealer and to us. All Honda warranty details are explained in the Distributor's Limited Warranty. Normally, any problems concerning the product will be handled by your dealer's service department. If you have a warranty problem that has not been handled to your satisfaction, we suggest you take the following action:

- Discuss your problem with a member of dealership management. Often complaints can be quickly resolved at that level. If the problem has already been reviewed with the Service Manager, contact the owner of the dealership or the General Manager.
- If your problem still has not been resolved to your satisfaction, contact the Power Equipment Customer Relations Department of American Honda Motor Co., Inc.

American Honda Motor Co., Inc.
Power Equipment Customer Relations Department
P.O. Box 50
Gardena, California 90247-0805
Telephone: (213) 604-2400

We will need the following information in order to assist you:

- Your name, address, and telephone number
- Product model and serial number
- Date of purchase
- Dealer name and address
- Nature of the problem

After reviewing all the facts involved, you will be advised of what action can be taken. Please bear in mind that your problem will likely be resolved at the dealership, using the dealer's facilities, equipment, and personnel, so it is very important that your initial contact be with the dealer.

Your purchase of a Honda product is greatly appreciated by both your dealer and American Honda Motor Co., Inc. We want to assist you in every way possible to assure your complete satisfaction with your purchase.

MEMO

MEMO



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