

Before using the SitePower™ SP80(50) Water Pump, please read this manual carefully.

SITEPOWER

OPERATION INSTRUCTION

Water Pump SP80(50)



Thank you for purchasing the SitePower SP80(50) water pump.

For your safety, please pay attention to sentences that include the following marks:

WARNING

This means that if the pump is not operated correctly, as specified in this manual, there is a risk of danger that can result in injury and even death.

PRECAUTION

This means that if the pump is not operated correctly, as specified in this manual, there is a risk of danger that can result in damage to the pump or its functions.

Note

This means that there is helpful advice for pump operators.

Also, due to changes with pump specifications, details of your pump may not align with information presented in this manual. Please consider this possible inconsistency.

Thank you again for having chosen the SitePower SP80(50) Water Pump!

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3. Safety Precautions

WARNING

- Before starting, please check the engine (page 6) to avoid damaging the pump.
- Please do not suck combustible or corrosive liquids: such as gasoline, acid, sea water, solution or alkaline liquid (used oil, wine, honey).
- Put the pump on a solid and horizontal surface. Gasoline may spill out if the pump is inclined or turn over.
- In order to avoid fire, please put the pump in a ventilated place. Also, keep a space of at least 1 meter (3 feet) from pump and wall of building and/or other things (especially combustible).
- To avoid being scalded, please do not let children or pets go into the pump work area.
- Operators must know how to stop the engine quickly.

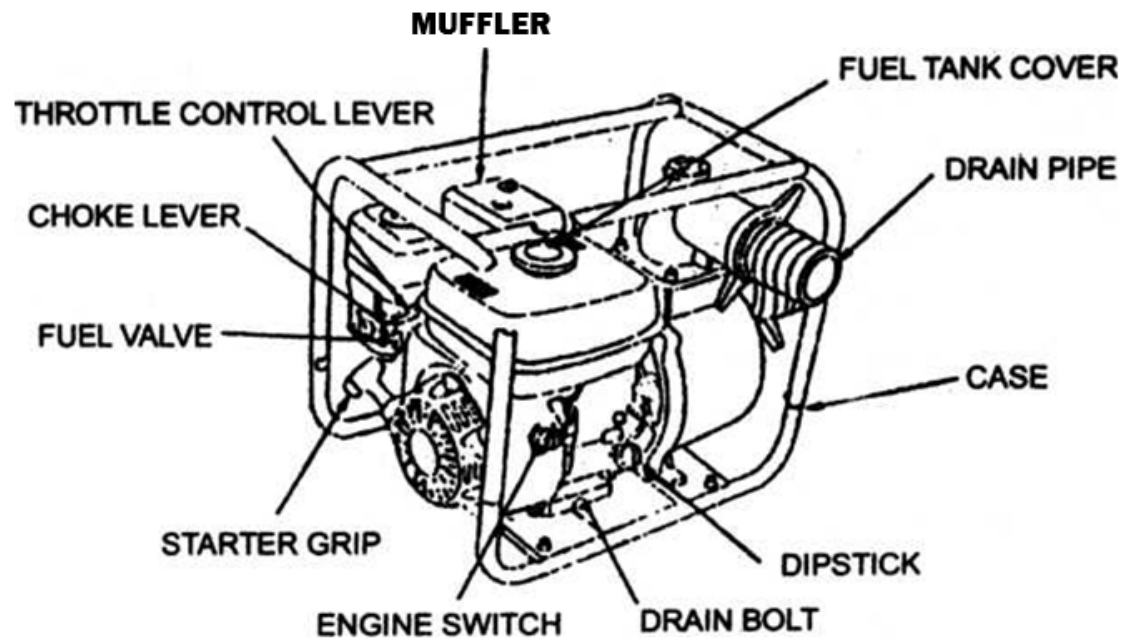
PRECAUTIONS

- Gasoline is very combustible and it may explode in special conditions.
- When you need to add gasoline, please stop the engine and put the pump in a ventilated area. **Never** smoke when adding or storing gasoline.
- To prevent gasoline leakage, please twist cap of fuel tank tightly.
- Avoid gasoline splashing out. Even the gas vapors can be very combustible. Please clean the engine before starting.
- **Never** start the engine indoors or in unventilated places. Carbon monoxide displacement can cause stupor and even death.

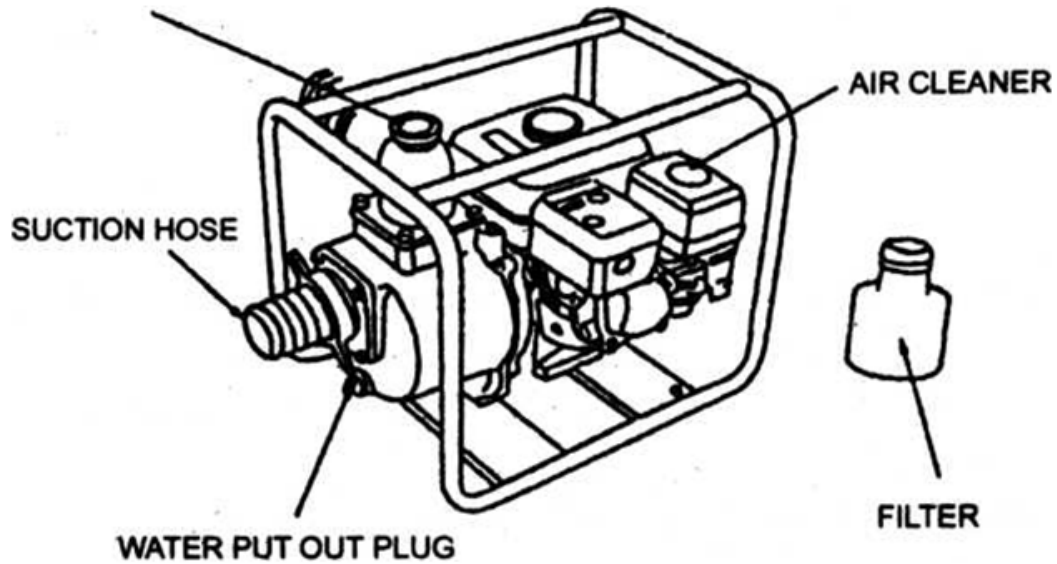
4. Safety Mark Position

These marks point out potential dangers that can cause serious accidents. Please read the user's manual carefully - especially note the marked warnings and precautions sections.

5. Main Part Names



WATER PUT IN COVER



6. Preparations Before Starting

Joint Suction Hose

Use commercially available hose, connections and clips. Please be careful that commercially available hose must be unfolded and kept to the necessary length. The water pump will function better if it is near the water source. There is a direct ratio between needed suction time and the length of the suction hose. The filter should be assembled at the bottom of suction hose.

PRECAUTION

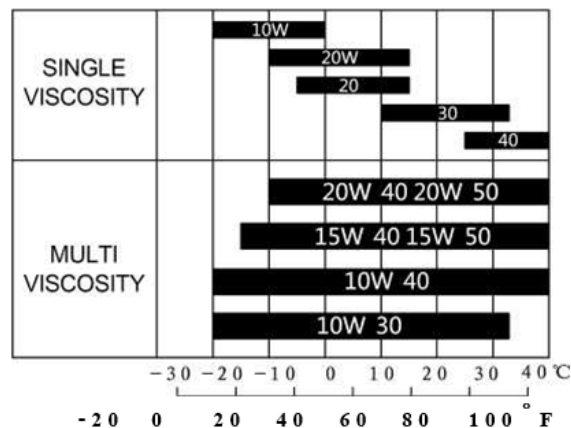
Be sure to have assembled the filter at the bottom of the suction hose before starting. The filter can prevent material from entering into the pump and damaging parts.

Notes

- Tighten the connections and clips to avoid air leak or decreased pressure.
- Joint drain pipe
- Use commercially available hose, connections and clips. Because of the high pressure, tighten the clips securely to avoid loss

PRECAUTION: CHECK OIL

- Be sure to add 600 ml oil for four stroke gasoline engine before starting - or engine will be damaged.
- Oil is a main factor in keeping the engine functioning successfully. We **do not** recommend using dirty oil or vegetable oil.
- When it is necessary to check the oil after using the pump, please be sure to stop the engine first - and put the pump in a horizontal place.
- Please use the oil that we supplied or the oil according to requirements of SF,SG
- Please choose oil according to local temperature.



- **Never** starting engine without oil! It will seriously damage the engine.

PRECAUTION: CHECK FUEL

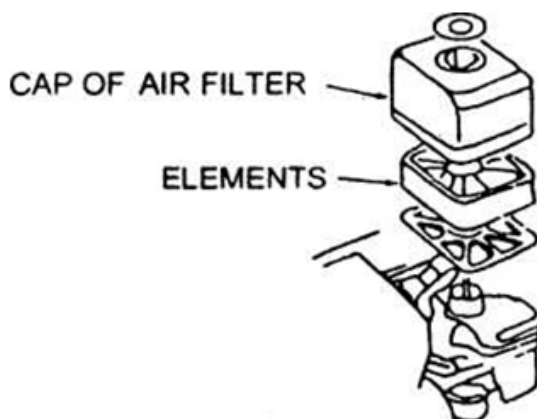
- Take fuel tank cap off and check whether fuel level is sufficient or not. Please add enough fuel, according to requirements.
- It is better to use gasoline with Pb or with a little Pb.
- **Do not** use a mixture of gasoline and oil, or dirty gasoline.

WARNING

- Gasoline is very combustible - and it may explode in special conditions.
- When you need to add gasoline, please **STOP** the engine and put the pump in a ventilated place. **NEVER** smoke in the location where you add or store gasoline.
- Please twist cap of fuel tank tightly to prevent gasoline from leaking out.
- Please prevent gasoline from splashing out. Even gas vapors can be very combustible. Please clean the engine before starting.
- Try to avoid touching gasoline or breathing the gasoline vapors. Put the gasoline in a location that is out of reach of children.

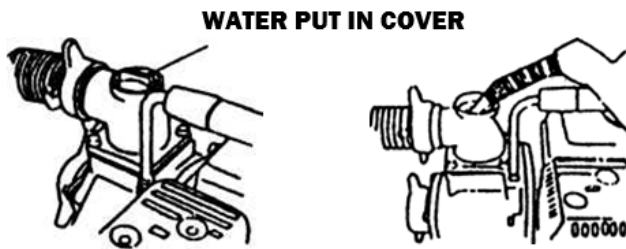
PRECAUTION: CHECKING AIR CLEANER FILTER

- Take off the nut, washer and cap of air filter.
- Check the filter, please clean it if it is too dirty or blocked up.
- **NEVER** start the engine without an air filter.
- If dust enters into the center of the engine through the carburetor, engine may wear out quicker than normal.



PRECAUTION: CHECKING WATER

- Please fully add water before starting.
- **NEVER** start the pump before adding water. It may damage the sealing of THE pump. Once the water is depleted, please stop the engine and add water - after engine has cooled.

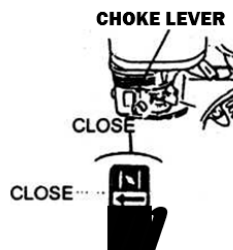


7. Starting

1. Move the fuel valve to **OPEN** position.



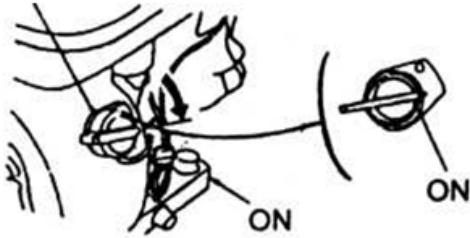
2. Move the choke lever to the **CLOSE** position.



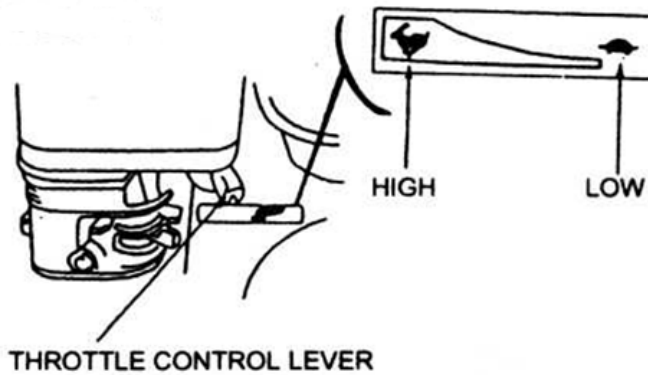
Note: Do not close the choke when the temperature is very high or engine is hot.

3. Move the switch to the **Open** position.

ENGINE SWITCH



4. Move the throttle control lever to the **LEFT** slowly.



5. Pull the starter with a sharp stroke.

PRECAUTION: STARTER

Never pull the entire rope.

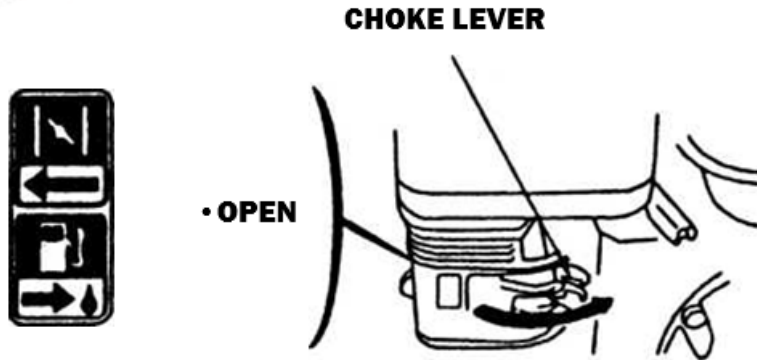
Never let the rope return by freeing the rope.

8. Water Pump Usage

Using in Plateau: If you need to use this water pump in plateau, please inform us in advance before purchasing so that we can adjust it in advance.

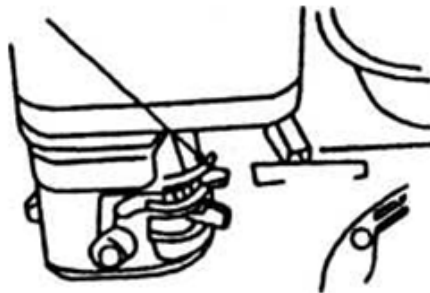
Standard Water Pump Usage:

1. As the engine warms up, gradually move the choke lever to the **OPEN** position.



2. Position the throttle control lever for the desired engine speed.

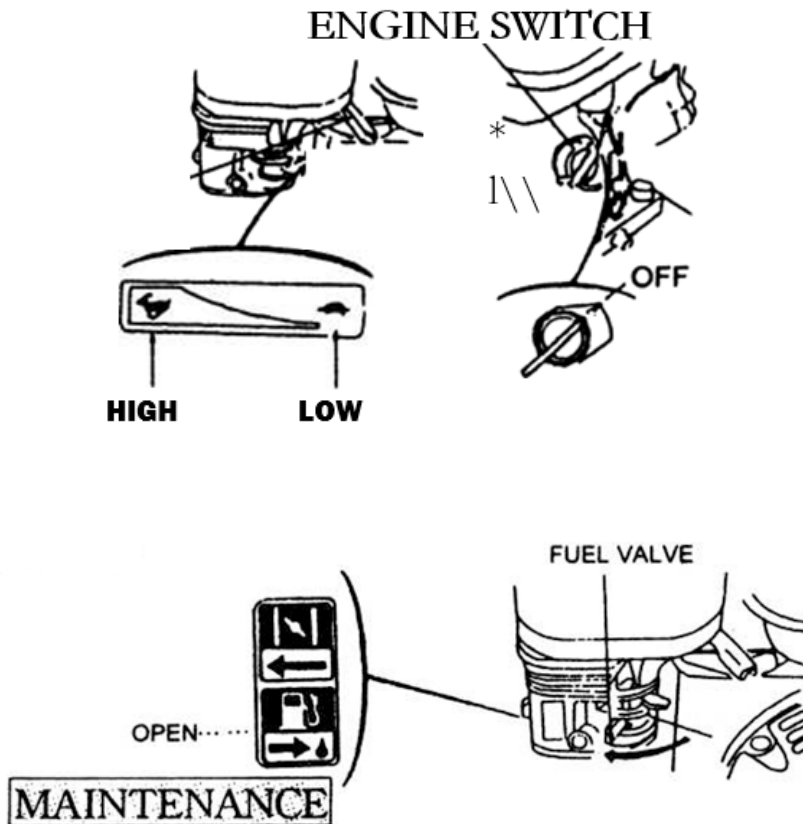
THROTTLE CONTROL LEVER



9. Stopping the Engine

To stop the engine in an emergency, turn the engine switch to the **OFF** position. Under normal conditions, use the following procedure:

1. Move the throttle control lever full the **RIGHT**.
2. Turn the engine switch to the **OFF** position.
3. Turn the fuel valve to the **OFF** position.



PRECAUTION: STOPPING THE ENGINE

When you need to stop the engine quickly, it is important to move the throttle lever to the **OFF** position.

10. Maintenance

The water pump has a life expectancy that is dependent upon the quality of maintenance. It is recommended that you inspect your unit before and after every operation.

REGULAR SERVICE PERIOD Performed at every indicated month or at Item operating hour interval (whichever comes first)		Each use	First month or 20 Hrs.	Every 3 months or 50 Hrs.	Every 6 months or 100 Hrs.	Every year or 300 Hrs.
Engine oil	Check level	●				
	Grange		●		●	
Air cleaner	Check	●				
	Clean			●		
Maintain spark plug					●	●
Adjust valve clearance						
Clean firebox						
Spark arrester		Clean once every 100 Hrs.				
Fuel pipe		Change once every 2 years				
Check impeller						●
Water pump tank cover						●
Greek suction valve						●

WARNING: MAINTENANCE

Make sure to stop the engine prior to maintenance.

If you have to perform maintenance while the engine is running, please do it in a ventilated environment. The water pump's exhaust gas contains Carbon Dioxide, which can cause stupor and even death.

PRECAUTION: MAINTENANCE

- If the water pump has used seawater, please draw clean water afterwards. This will help avoid the parts from becoming corroded.
- Please use original parts for repair and maintenance.

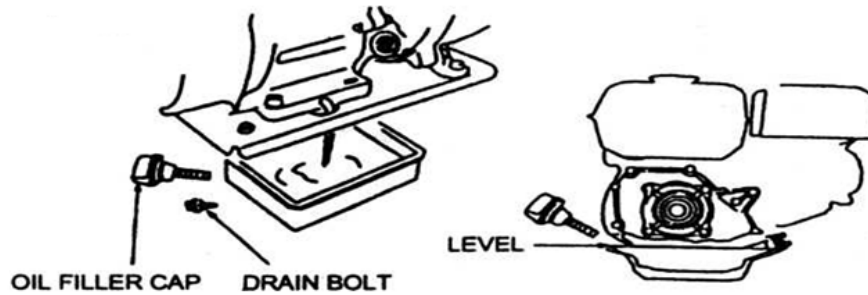
NOTE: MAINTENANCE

- If the pump has used dirty water or is put in filthy environment, please check the pump afterwards.

1. Renewal of Engine Oil

The engine oil shall be drained while the engine is warm.

- a. Take off the oil gauge and remove the oil inlet port. Then drain the oil.
- b. Assemble the oil inlet port bolt.
- c. Put in the new oil, up to the level mark.
- d. 0.6 L oil can be put in.

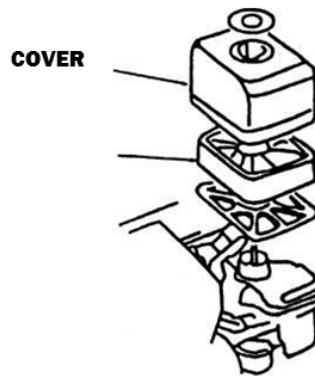


NOTE: MAINTENANCE

Please take attention to environmental protection. **Do not** throw the waste oil on the ground directly.

2. Air Cleaner Inspection

- a. To minimize contamination, please wash the element regularly. If the operating environment is dirty, the element should be washed frequently.
- b. Please **do not** use gasoline or a low burning point solution to wash the element.
- c. **Do not** use the water pump without air cleaner. The dust that is drawn into the engine will increase the wear and tear of the pump.
 - i. Take off the screw, the cover, and the element.
 - ii. Wash the element by an un-combustible solution.
 - iii. Put the element into fresh oil and then squeeze out the oil.
 - iv. Assemble the element and the cover again.



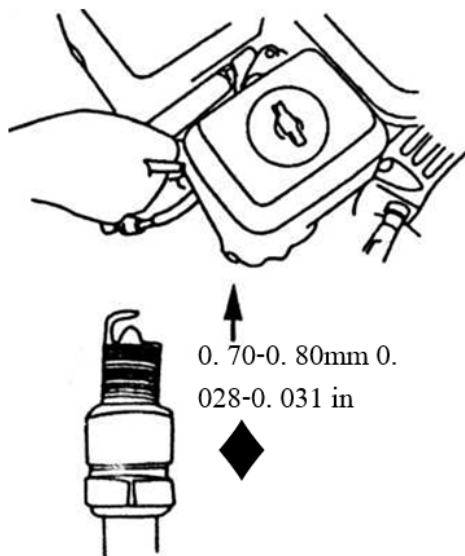
3. Spark Plug

We recommend using NHSP LD F7TC

- a. Remove the cap.

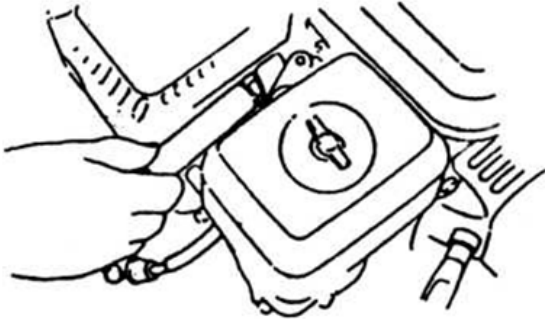
If the machine was just stopped, please be careful to avoid being scalded by the muffler.

- b. Visually inspect the plug. If it is badly damaged – or if the insulator is cracked/broken, then please replace with a new one.
- c. Adjust the electrode distance to 0.7-0.8mm.
- d. Inspect the sealing, adjust it if needed.



PRECAUTION: SPARK PLUG

Please make sure that the plug is assembled tightly. If not, the engine may be too hot and even damage the motor. Do not use a spark plug of poor quality.



10. Transport and Long-Term Storage

WARNING: TRANSPORT AND LONG-TERM STORAGE

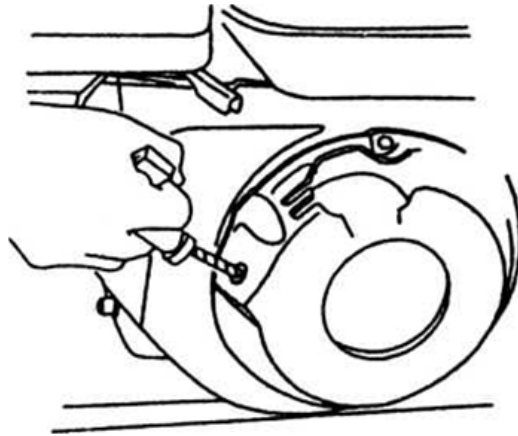
- Before transport or storing the machine - to avoid fire and injury - please make sure that the pump has cooled down.
- Before transport, put the fuel valve to the **OFF** position and keep the pump horizontally. This will help avoid gas and oil from spilling out.

Storing Long Term

1. The storage environment should not be moist and dirty.
2. Clean the inner parts through using clean water and then drain the water completely.
3. Drain the oil completely.
 - a. Put the fuel valve to the **OFF** position and then take the drain screw off in float room. Then drain the gasoline in the carburetor.



- b. Drain the gasoline in the fuel tank.
- c. Assemble the screw in float room.
- d. Renew the oil.
- e. Take off the spark plug, put a spoonful of clean engine oil into cylinder. Turn the engine several revolutions to make the oil spread evenly. Then reinstall the spark plug.
- f. Take the handle of the starter into your hand until you feel resistance. Then pull it to the triangle mark and hole of screw in the same line. In this position, both the inlet and outlet are closed - which is better for avoiding rust.



**pull of the starter triangle
mark and hole of screw in
the same line.**

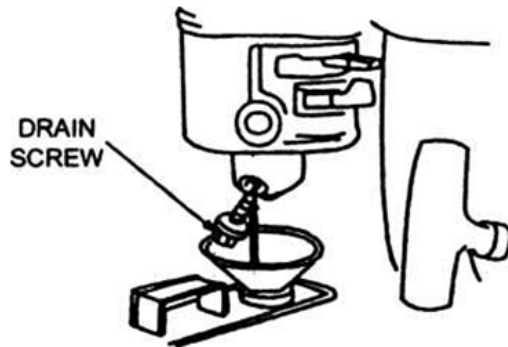
- g. Cover the water pump.

11. Troubleshooting

Not Able To Start

1. There may be no fuel in tank.
2. Is the fuel valve at the **ON** position?
3. Can gasoline enter into the carburetor?

Open the valve and take-off the drain screw at the bottom of carburetor. Then inspect it.



WARNING: DRAIN SCREW

If there is spilt fuel, please clean it before testing the spark plug and starting the engine (to avoid fire).

4. Put switch to the **ON** position.
5. Inspect oil in the crankcase. If needed, add enough oil into it.
6. Inspect fire of the spark plug.
 - a. Remove the cap. Clean the dirt around it and then take off the spark plug.
 - b. Assemble the plug on the cap.
 - c. Put the switch to the **ON** position.

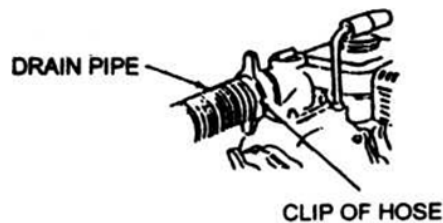
- d. Let the spark touch the engine and then pull the starter to check whether there is fire or not.
 - e. Change a new spark plug if there is no spark.
7. If the engine still does not start, take the engine to the authorized dealer.

Not Able To Suction

1. No water or water shortage in pump.



2. Filter is blocked.
3. Clip of hose is loose.



4. The hose is damaged.
5. Total water level is too high.
6. If the water pump still does not suction, please take it to authorized dealer.



12. Main Specifications

Name		Water pump	
Model		SP80	SP50
Dimensions (L X W X H)		530x380x445mm	500x380x430mm
Weight		27kg	24kg
P U M P	Suction port diameter	80mm(3.0inch)	50mm(2.0inch)
	Discharge port diameter	80mm(3.0inch)	50mm(2.0inch)
	Discharge(Max.)	50m ³ /h	25m ³ /h
	Total water head(Max.)	20m	30m
	Suction water	8m	8m
	Continuous work time	150min	150min
E N G I N E	Type	Four stroke, one cylinder	Four stroke , one cylinder
	Model	168F	168F
	12h Power	3.2kW/3600r/min	3.2kW/3600r/min
	Total diaplacement	163cc	163cc
	Way of ignition	TCI	TCI
	Rolling direction of shaft	Counterclockwise	Counterclockwise
	Cooling system	Air-cooled	Air-cooled