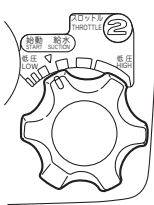
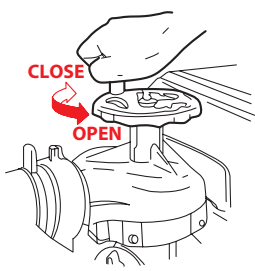


5. STOPPING

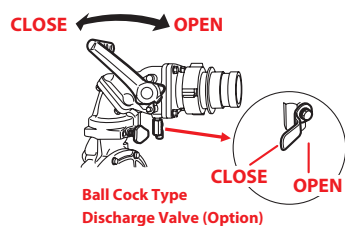
- 1 Return the throttle dial to low speed position.



- 2 Close the discharge valve.

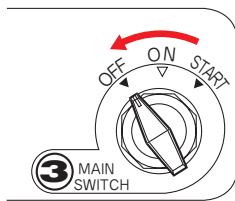


Standard Type
Discharge Valve

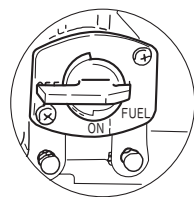


Ball Cock Type
Discharge Valve (Option)

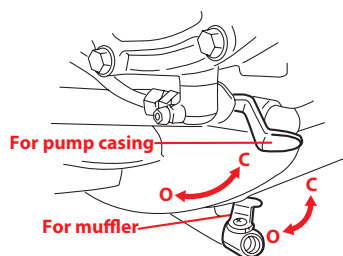
- 3 Turn the main switch to OFF position.



- 4 Close the fuel cock.



- 5 Open the drain cocks. After checking all the water has been drained from the pump, close the cocks.



6. PRECAUTIONS AFTER OPERATION

Maintenance after pumping seawater or foul water

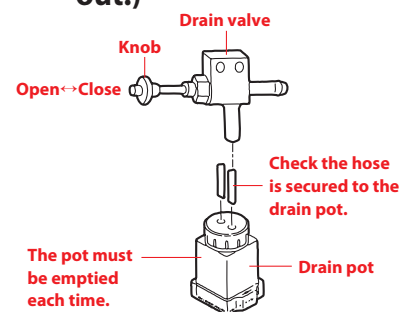
After pumping seawater or foul water, flush fresh clean water through the pump with the pump running to thoroughly clean the inside.

And operate the vacuum pump for 5 seconds at low engine speed in order to clean the vacuum pump.

7. Draining Fuel from the Carburetor

- 1 After stopping the engine, close the fuel cock.

- 2 Pull the knob of the drain valve. (Fuel in the float chamber will flow out.)

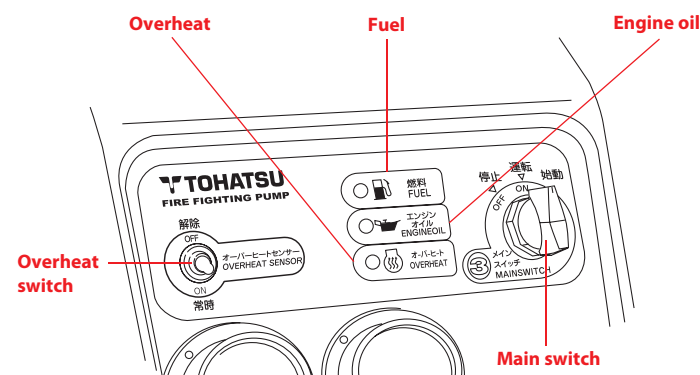


- 3 After all the fuel has drained, release the knob. (The drain valve will return to the closed position.)

- 4 Fuel from the drain pot should be returned to the fuel tank.

Dispose of fuel if contaminated with water, dirt or other substances.

8. USE OF OK MONITOR



Countermeasuring when the monitor lamp is ON.

It is necessary to take a countermeasure if the lamp is on when turning the main switch to the position of "Operation".

Monitor lamp	Lamp ON	Action required
Fuel	Level of fuel has dropped below one third of tank capacity.	Supply fuel.
Engine oil	Oil level is below quarter of oil tank capacity.	Supply 2 stroke engine oil.
Overheat	Engine stops caused by lack of cooling water.	Check the cause and remedy it. Turn the overheat sensor switch to "OFF" position and start the engine. After confirming the lamp is off, return the switch to "ON" position. (VC82ASE/72AS/52AS)

TOHATSU
Portable Fire Pumps

**VC85BS·VC82ASE·
VC72AS·VC52AS**

Quick Start Guide

Be sure to read the instruction manual before operating Tohatsu fire pump. Being familiar with all aspects of its application will guarantee best performance.

1. BEFORE OPERATION

- 1 Battery initial charge

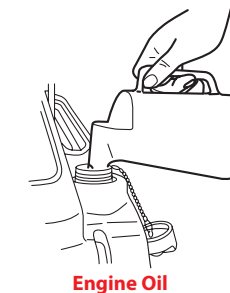
The battery mounted on the engine can be used immediately after filling cells with electrolyte enclosed with battery (It is better to charge the battery using the automatic battery charger after filling electrolyte). Do not add distilled water because this is a sealed type battery. Please refer to the INSTRUCTIONS on the battery.

- 2 Fuel & Engine oil

Fill gasoline (87 octane minimum at pump posted rating...91 based on the research octane rating method) into the fuel tank. Fill two stroke engine oil into the oil tank.



Gasoline



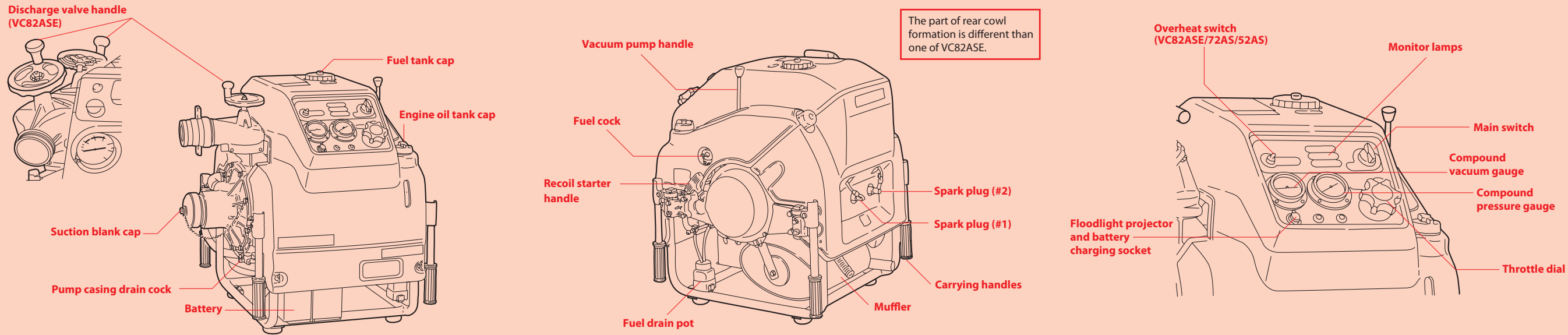
Engine Oil

⚠ WARNING

Dry running of engine for over two minutes will cause seizure of engine parts. Start suction of water immediately after starting engine.

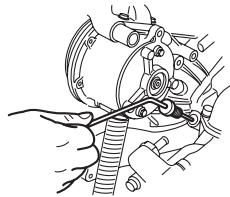
Fire Fighting Pumps

VC85BS / VC82ASE / VC72AS / VC52AS



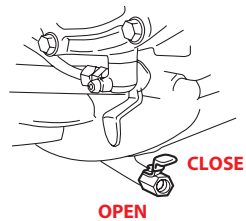
3 Governor case oil

Before using fire pump check governor case oil level. To check, remove oil gauge, oil level should be between upper and lower line on the gauge if necessary, add two stroke engine oil into the oil gauge insert port.



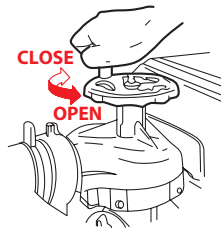
4 Drain cock

Make sure the drain cock is closed.



5 Discharge valve

Make sure the discharge valve is closed.



(4) Water discharge is made by a branch pipe with nozzle fitted. Recommended nozzle diameters are within the range below.

Model	Nozzle Dia. (mm)	
	Largest dia. *	Smallest dia.
VC82ASE	25	19
VC72AS	36	21
VC52AS	36	22

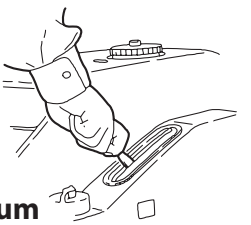
*The largest nozzle dia. in column is the maximum dia. at the 3m of the suction head.

⚠ WARNING

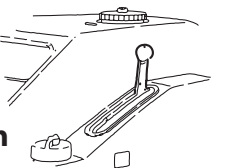
When delivery nozzle is not used, pumping plate must be installed on delivery outlet to avoid engine overheating caused by lack of cooling water.

4. WATER SUCTION AND DISCHARGE

1 After starting the engine, lower the vacuum pump handle to SUCTION side.

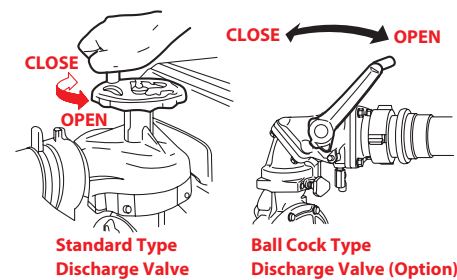


2 Check water exiting from the vacuum pump drain pipe. The pressure gauge moves to the positive range.



3 Once water is visible in strainer cup of vacuum pump, it is sign of suction completed. Return the handle to original position.

4 Open the discharge valve.



5 Adjust the water volume and pressure controlling the throttle dial.

⚠ WARNING

Operation of vacuum pump should be completed within 30 seconds, or the pump may be damaged seriously. If no vacuum is attained within 30 seconds, troubleshoot the cause.

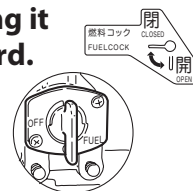
2. LOCATING PUMP

1 Notes on installation

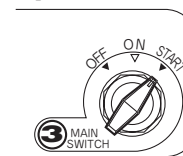
- (1) Set the pump in a place that is flat near water source with pump easily accessible to ease operation.
- (2) Set suction hose rising slope toward pump to prevent trapping of air.
- (3) Connect suction hose and delivery hose to the pump securely. Put end of suction hose in water source. The suction hose must have a strainer and a basket.

3. ENGINE START

1 Open the fuel cock lever by turning it downward.



3 Turn the main switch to START position.



2 Set the throttle dial at START ▼ SUCTION position.



If electric starter will not work, use the recoil starter.

