

**Report Date:** 30 Apr 2012

**Summary Report for Individual Task  
551-8ST-8107  
Operate a Fire and Salvage Pump  
Status: Approved**

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DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

**Condition:** Aboard a vessel, at sea, at anchor or moored alongside the pier, day or night, under all sea and weather conditions, the Soldier will operate a fire/salvage pump.

**Standard:** The Soldier operated a fire/salvage pump in accordance with TM 55-1925-273-10-1.

**Special Condition:** None

**Special Standards:** None

**Special Equipment:**

**Safety Level:** Low

**MOPP:**

<b>Task Statements</b>
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**Cue:** None

<b>DANGER</b>
None

<b>WARNING</b>
None

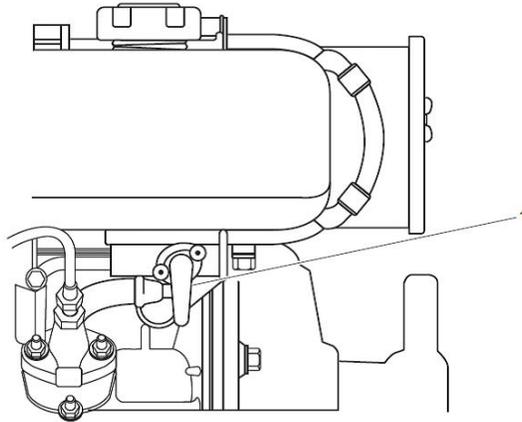
<b>CAUTION</b>
None

**Remarks:** None

**Notes:** None

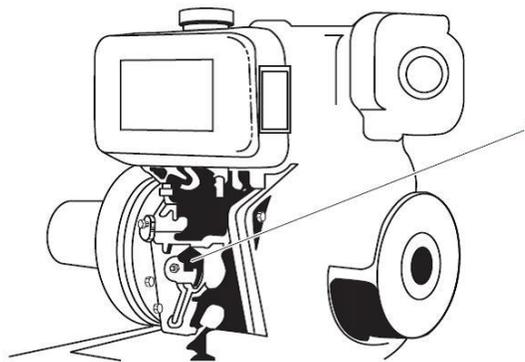
## Performance Steps

1. Perform a preoperational check of the pump.
2. Start the pump.
  - a. Set the fuel tank isolation valve (Item 1) located under the fuel tank (Item 2) to the "O" (open) position.



Fuel Tank Isolation Valve  
Figure 551-8ST-8107\_01

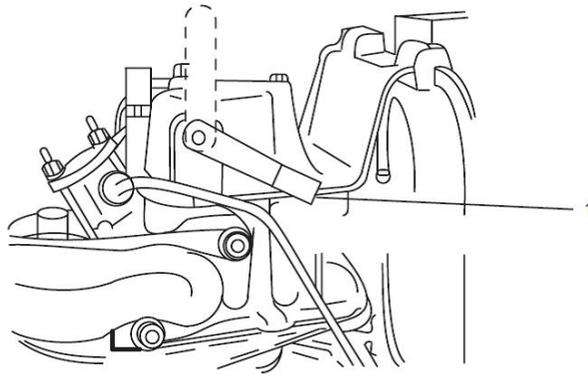
- b. Set the engine throttle control (Item 1) to the start position.  
Note: The valve is open when the knob is aligned with the air passage.



Engine Throttle Control

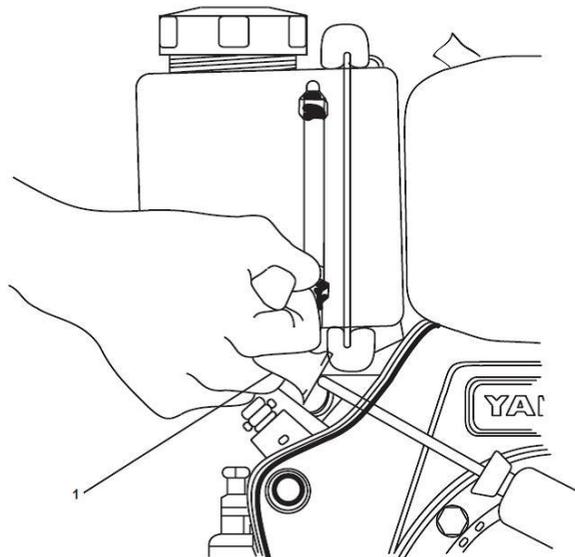
Figure 551-8ST-8107\_02

- c. Open the primer line shutoff valve, which is located between the primer jet and the pump suction.
- d. Prime the exhaust butterfly valve.
- e. Press down on the compression release lever (Item 1) and verify that it remains pressed downward.  
Note: The first pull of the recoil starter rope is to verify that the motor will operate smoothly.



P-100 Portable Dewatering Pump compression Release Lever  
Figure 551-8ST-8107\_03

- f. Pull the recoil starter rope slowly (Item 1) while checking the engine and pump for freedom of movement.



## CAUTION

g. Press down on the compression release lever (Item 1), verifying that it remains pressed downward.

Note: The compression release lever will spring shut as the engine rotates during starting attempts.

## CAUTION

A strong, deliberate pull is required to prevent engine kickback and possible starting in the reverse rotational direction. If either of these occurs, immediately shut down the engine. Operation in the reverse direction is characterized by the evidence of exhaust gases coming out of the intake filter. Reverse operation does not allow full power operation or positive priming, and will cause damage to the pump unit.

h. Start the engine by pulling the recoil starter rope (Item 1).

3. Prime the pump.

a. Prime the dewatering pump prior to operate the pump.

Note: Start the engine and run it at a fast idle to prime with lifts less than 10 feet.

Start the engine and run at full throttle to prime with 10 to 22 foot lifts.

When priming on high lifts, or when pumping dirty water, it may be necessary to seat the discharge stop-check valve by tightening down gently with the handwheel. Unscrew the handwheel when water is discharged through the exhaust jet.

b. Shift the engine exhaust valve to the prime position, blocking the main exhaust opening.

Note: The exhaust valve is in the prime position when the handle is horizontal.

c. Close the primer line shutoff valve and return the engine exhaust valve to the normal position (vertical) when a steady stream of water appears at the discharge of the priming pipe.

d. Open the pump discharge valve.

## CAUTION

Do not overload the engine. If black smoke appears from the exhaust, reduce the throttle.

e. Adjust the throttle to get the desired pressure.

(1) Repeat the priming operation if the pump fails to hold its prime.

(2) Stop the engine and check for air leaks at the suction connections and the pump packing gland if the pump still does not deliver water within two minutes.

4. Secure the pump.

- a. Reduce the engine speed to idle.
- b. Allow the engine to cool down for two minutes.
- c. Set the engine throttle control (Item 1) to the stop position.  
Note: If the engine continues to run, close the fuel tank isolation valve.
- d. Flush the pump with fresh water.
  - (1) Place the suction hose with foot valve and strainer into fresh water supply.
  - (2) Run the pump, permitting it to pump the fresh water for at least one minute.
  - (3) Stop the pump as described in steps 4a-4c (above).
- e. Drain the pump by removing the pump drain plug.
- f. Disconnect the suction and discharge hoses.
- g. Replace the hose connection caps and drain cocks after draining all of the water.
- h. Apply silicone lubricant through the pump's inlet fitting while slowly pulling the recoil starter rope (Item 1) to lubricate the pump's internal components.
- i. Stow the portable pump, hoses, and accessories.

(Asterisks indicates a leader performance step.)

**Evaluation Preparation:** Given a Fire/Salvage Pump, hoses, and all accessories.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Performed a preoperational check on the pump.			
2. Started the pump.			
3. Primed the pump.			
4. Secured the pump.			

**Supporting Reference(s):** None

**Environment:** None

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :**

<b>Task Number</b>	<b>Title</b>	<b>Proponent</b>	<b>Status</b>
N/A	N/A	Not Selected	Obsolete