



Fire Protection Training

Procedures Handbook 4300

PUMPING

TOPIC: Portable Pumps - Pacific Marine Mark 3

TIME FRAME: 1 Hour

LEVEL OF INSTRUCTION:

BEHAVIORAL OBJECTIVE:

Condition: A written quiz

Behavior: The student will be able to list and describe the parts, care and maintenance requirements, safety requirements and operating procedure for the Pacific Marine Mark 3 portable pump.

Standard: With a minimum of 70% accuracy

MATERIALS NEEDED:

- Pacific Marine Mark 3 portable pump
- Appropriate visual aids
- Audio visual equipment

REFERENCES:

- Manufacturer's literature

PREPARATION: Portable pumps are used to supply water to fire engines from water sources such as lakes, creeks, and swimming pools and are also used to relay water in long hose lays or remove unwanted water from structures. Where the fireline or the water source is not readily accessible to engines, portable pumps are essential.



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PORTABLE PUMPS—PACIFIC
MARINE MARK 3

PRESENTATION	APPLICATION														
<p>I. SPECIFICATIONS</p> <ul style="list-style-type: none"> A. 4 Stage Centrifugal Pump B. Powered by a Two-cycle, One Cylinder, Air Cooled C. Weighs 55 Pounds D. Generates 8.5 Horsepower E. Has a 5 gallon Fuel Tank for Extended Operations F. Performance Data: <table border="0"> <tr> <td>PRESSURE</td> <td>50</td> <td>100</td> <td>150</td> <td>200</td> <td>250</td> <td>300</td> </tr> <tr> <td>GPM</td> <td>89</td> <td>77</td> <td>62</td> <td>43</td> <td>25</td> <td>OFF (SHUTDOWN)</td> </tr> </table> <p>II. OPERATING INSTRUCTIONS</p> <ul style="list-style-type: none"> A. Starting Procedures <ul style="list-style-type: none"> 1. Place suction hose in water source <ul style="list-style-type: none"> a. Always use suction hose strainer 2. Connect discharge lines and attach proper nozzle 3. Open fuel valve 4. Fully prime pump prior to starting 5. Close choke 6. Start engine 7. Open choke 8. Allow engine to warm up 9. Adjust throttle as necessary <ul style="list-style-type: none"> a. Do not exceed 6300 RPM's 	PRESSURE	50	100	150	200	250	300	GPM	89	77	62	43	25	OFF (SHUTDOWN)	
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<ul style="list-style-type: none"><ul style="list-style-type: none">b. Place load on engine slowly10. Open discharge valve, if so equippedB. Operating Procedures<ul style="list-style-type: none">1. Do not run pump without water2. Set up pump in a level area and anchor it to eliminate movement caused by engine vibration3. Place the pump in an area free of flammable materials4. Keep the unit dry5. Carry a spare spark plug6. Refueling<ul style="list-style-type: none">a. Use 16:1 fuel mixture<ul style="list-style-type: none">(1) 4 gallons of gasoline(2) One quart of<ul style="list-style-type: none">(a) SAE 30/40 outboard motor oil or(b) 2 cycle oilb. Fuel in an area<ul style="list-style-type: none">(1) Free of flammable materials(2) Away from ignition sourcesc. Fuel only after engine cools offC. Shut Down Procedures<ul style="list-style-type: none">1. Reduce throttle slowly	

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<ul style="list-style-type: none">2. Idle for one minute prior to shutting off3. Press cut-out switch until engine stops4. Drain water from pump after use5. Drain fuel from carburetor after use <p>III. SAFETY PRECAUTIONS</p> <ul style="list-style-type: none">A. Do Not Smoke Near Fueling AreaB. Do Not Touch Spark Arrestor or Exhaust Pipes/ManifoldC. Do Not Leave Pump UnattendedD. Wear Ear ProtectionE. Carry Fuel in an Approved Container <p>IV. CARE AND MAINTENANCE</p> <ul style="list-style-type: none">A. Check Fluid Levels Prior to UseB. Add "Fresh" Fuel Prior to UseC. Clean and Maintain Spark Arrestor FrequentlyD. Replace Starter Rope if It is Frayed or DamagedE. Service Pump Bearings After Each Thirty Hours of Operation	



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SUMMARY:

A well maintained portable pump can save firefighters an enormous amount of time and effort when a fire is burning in an area which is not accessible or in an area where a water source is not otherwise accessible to engines.

EVALUATION:

A written quiz.

ASSIGNMENT:

To be determined by instructor(s).