The following instructions are intended to assist the user in starting the MT-54F Tamping Rammer. Please read the entire instructions before starting.

Rammer Gearbox and Spring Cylinder Oil Bath

This unit uses an oil bath lubrication system. Perform the following:

1. Check the oil level through the oil level sight glass (Figure 1) at the rear of the tamper foot.

2. If oil is not visible, add 10W-30 motor oil into the oil fill plug opening (Figure 1). The bath contains approximately 1.7 pints (800 cc.). The oil level should be kept at the half way point of the sight glass.

Fuel

1. Fill the fuel tank (Figure 2) with unleaded gasoline. DO NOT overfill, wipe up spilled fuel immediately.

Engine Oil Check

1. To check the engine oil level, place the rammer on secure level ground with the engine stopped.
2. Remove the filler cap/dipstick from the engine oil filler hole (Figure 3) and wipe it clean.
3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the oil level is low (Figure 4), fill to the edge of the oil filler hole with the recommended oil type.

WARNING Explosive Fuel Hazards

Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. DO NOT start the engine near spilled fuel or combustible fluids.

DO NOT fill the fuel tank while the engine is running or hot. DO NOT overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in well-ventilated areas and away from sparks and flames.

Table 1. Motor Oil Grade

<table>
<thead>
<tr>
<th>Season or Temperature</th>
<th>Grade of motor oil (higher than MS class)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring, Summer or Autumn +120°F to +15°F</td>
<td>SAE 30</td>
</tr>
<tr>
<td>Winter +40°F to +15°F</td>
<td>SAE 30</td>
</tr>
<tr>
<td>Below +15°F</td>
<td>SAE 10W-30</td>
</tr>
</tbody>
</table>
Initial Start-up

When starting the MT-54F Tamping Rammer perform the following:

1. Open the fuel shut-off valve by moving the fuel cock lever to the open position (Figure 5).

2. Set the engine ON/OFF switch (Figure 6) to the "ON" position (start).

3. Close the choke lever (Figure 7). Turning the choke lever 90 degrees clockwise closes the choke. In cold weather, start the unit with choke fully closed. In warm weather or when the engine is warm, the unit can be started with choke halfway or completely open.

4. Move the throttle lever (Figure 8) between 1/4 to 1/2 from the idle position.

5. Grip the recoil starter (Figure 9) handle and pull it until you feel a slight resistance. Then pull sharply and quickly. Return the recoil starter handle to the starter case before releasing.

6. When the engine starts, move the choke lever slowly to the "FULL OPEN" position. Warm up the engine by running at low speed for three to five minutes, check for gas leakage or abnormal sounds.

7. If the engine does not start after repeated attempts, check the spark plug for excess fuel. Clean and replace the spark plug as needed, then move the choke lever (Figure 7) to the half open position to avoid flooding and repeat steps 1 thru 5.

Operation

1. To start the rammer tamping action, move the throttle lever (Figure 10) quickly from IDLE (close) to the FULL OPEN position. DO NOT move the throttle lever slowly as this may cause damage to the clutch or spring.

2. Close the fuel shut-off valve (Figure 5) by moving the fuel cock lever to the CLOSED position.

Stopping The Engine

Normal Shutdown

1. Move throttle lever quickly from the FULL OPEN to IDLE position (Figure 8) and run the engine for three minutes at low speed.

2. Close the fuel shut-off valve (Figure 5) by moving the fuel cock lever to the CLOSED position.

3. After the engine cools, turn the engine start/stop switch to the "OFF" position (Figure 6).

Emergency Showdown

1. Move the throttle lever quickly to the IDLE position, and turn the engine start/stop switch to the OFF position. Turn fuel valve lever to the CLOSED position.