The following instructions are intended to assist the user in starting the MT-65HA 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 SE, SF or higher grade 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 (Table 1). Maximum oil capacity is .079 gallons (0.3 liters)

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-65HA Tamping Rammer perform the following:

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

Figure 5. Fuel Shut-Off Valve (ON)

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

Figure 6. On Off Switch

3. Move the throttle lever to the "IDLE" position (Figure 7).

Figure 7. Throttle Lever (Idle)

4. In cold weather, start the unit with choke lever "Fully Closed" (Figure 8). In warm weather or when the engine is warm, the unit can be started with choke halfway or completely open.

Figure 8. Choke Lever

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.

Operation

1. To start the rammer tampering action, move the throttle lever (Figure 9) 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.

Figure 8. Recoil Starter

Stopping The Engine

Normal Shutdown

1. Move throttle lever quickly from the FULL OPEN to IDLE position (Figure 7) 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 Shutdown

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.