**Start-Up & Shutdown Procedures (816K/826K/836K)**

**MOUNTING AND DISMOUNTING**

- Mount or dismount the machine only at locations that have steps and/or handholds. Before you mount the machine, clean and inspect the steps and handholds. Make all necessary repairs.
- Always face the machine whenever you get on or off the machine.
- Maintain three-point contact with the steps and with the handholds. (Three-point contact can be 2 feet and 1 hand or 1 foot and 2 hands).
- **DO NOT** mount or dismount a moving machine. Never jump off the machine. Do not carry tools or supplies when you try to mount the machine or when you try to dismount the machine.

**BEFORE STARTING THE MACHINE**

<table>
<thead>
<tr>
<th>Inspection/Adjustment</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspect the condition of the seat belt and mounting hardware. Regardless of appearance, replace the seat belt after three years of use.</td>
<td></td>
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<tr>
<td>Adjust the seat so that full pedal travel can be achieved with the operator's back against the back of the seat.</td>
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<tr>
<td>Make sure the machine is equipped with a lighting system that is adequate for the job conditions. Make sure all machine lights are working properly.</td>
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<tr>
<td>Before you start the engine and before you move the machine, make sure that no one is underneath the machine, around the machine, or on the machine.</td>
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</tbody>
</table>

**STARTING THE ENGINE**

- Turn the battery disconnect switch ON
- Adjust seat for proper height and pedal reach
- Inspect, adjust, and fasten seat belt
- Inspect, adjust mirrors
- Engage the parking brake
- Make sure all implements are grounded
- Engage the steering and transmission integrated control (STIC) lock
- Deactivate the implement controls with the implement/hydraulic lockout switch
- Make sure all personnel are clear of machine
- Sound horn
- Turn the key start switch to ON
- Observe monitoring system self-test
- Turn the key start switch to START, crank engine

**ENGINE AND MACHINE WARM-UP**

- Allow machine to warm up at low idle for at least 5 minutes (per O&MM)
- Perform the following operations at either MEDIUM IDLE or HIGH IDLE
- Move the lift control to the RAISE position; hold the lift control in the RAISE position for a short time (not more than 10 seconds)
- Move the lift control to the HOLD position for a short time
- Continue to move the lift control between RAISE and HOLD until hydraulic oil is warm
- Cycle all controls to circulate warm oil through hydraulic cylinders, lines, and machine components
- During machine operation, frequently look at alert indicators and gauges
<table>
<thead>
<tr>
<th>Was procedure step completed properly?</th>
<th>✔</th>
<th>Evaluator Comments</th>
</tr>
</thead>
</table>

**PREPARING TO MOVE THE MACHINE**

- Make sure area is clear by sounding horn and waiting 3-5 seconds before moving machine
- Raise all lowered implements
- Perform steering, service, parking brake test (per O&MM)
- Depress brake pedal
- Release parking brake
- Move transmission control to desired direction
- Release brake pedal and check for proper operation
- Govern speed with throttle control

**MACHINE SHUTDOWN**

- Park machine on smooth, level area
- Apply service brakes to stop the machine
- Move transmission control lever to NEUTRAL position
- Engage the parking brake
- Lower all implements to ground; apply slight downward pressure
- Engage STIC lock lever
- Allow engine to run at LOW IDLE for 5 minutes to allow engine to cool
- Turn key start switch to OFF and remove key
- Utilize correct delayed engine shutdown procedure if equipped.
  - Note: Overriding delayed engine shutdown may reduce engine & machine system component life. **Use for emergency situations only.**
- Inspect engine compartment for debris; if present remove to avoid fire hazard
- Remove flammable debris from front bottom guard through access doors to reduce fire hazard
- Turn battery disconnect switch to OFF
- Do not turn off the battery disconnect switch until the “wait to disconnect” lamp has turned off. If the switch is turned off when the indicator lamp is illuminated the Diesel Exhaust Fluid (DEF) system will not purge the DEF. If the DEF does not purge, DEF could freeze and damage the pump and lines (if equipped).
- Dismount machine using 3-point contact
- If parking for extended period remove battery disconnect key and lock all vandalism covers and compartments (if equipped)
- Conduct post-operation walk-around inspection

**NOTES:**

Inspected by: ____________________________________________ Date: __________________ Time: __________________