# Start-Up & Shutdown Procedures

### AD30/AD45B/AD60

**Inspector ___________________________________________  Evaluator ________________________________________**

## 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>Was procedure step completed properly?</th>
<th>Evaluator Comments</th>
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</thead>
<tbody>
<tr>
<td><strong>Inspect the condition of the seat belt and mounting hardware</strong></td>
<td></td>
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<tr>
<td>Regardless of appearance, replace the seat belt after three years of use</td>
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<tr>
<td><strong>Adjust the seat so that full pedal travel can be achieved with the operator’s back against the back of the seat</strong></td>
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<tr>
<td><strong>Make sure the machine is equipped with a lighting system that is adequate for the job conditions</strong></td>
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<td><strong>Make sure all machine lights are working properly</strong></td>
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<tr>
<td><strong>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</strong></td>
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</tbody>
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### Starting the Machine

- Turn the battery disconnect switch ON (if equipped)
- Adjust seat for proper height and pedal reach
- Inspect, adjust, and fasten seat belt
- Inspect, adjust mirrors
- Ensure steering frame lock is in UNLOCKED position
- Ensure dump body is down
- Ensure all personnel are clear of machine, sound horn
- Move hoist level to FLOAT position
- Move transmission control to NEUTRAL
- Move parking brake control to ON position
- Turn key start switch to ON
- Observe instrument cluster self-diagnostic test
- Turn the key start switch to START, crank engine

### Machine Warm-Up

- Allow machine to warm up (per O&MM)
- With engine at low idle and oil at normal operating temperature, check engine, transmission, and hydraulic oil levels
- Check horn, backup alarm and any other warning devices on machine
- Check operation of steering and brakes before operating at high speed (as per OMM by machine model)
- Check gauges, indicators, and action lights frequently
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### MOVING THE MACHINE

- Make sure area is clear by sounding horn and waiting 3-5 seconds before moving machine
- Test Automatic Retarder Control (ARC) on a short grade before machine is loaded
- Depress the service brake pedal
- Release the parking brake
- Ensure dump body is down and hoist control lever is in FLOAT
- Move transmission control to desired direction and gear
- Release service brake pedal and depress throttle pedal

### MACHINE SHUT DOWN

- Park machine on smooth, level area
- Release throttle pedal
- Depress service brake pedal
- Move transmission control to NEUTRAL position
- Move parking brake control to ON position
- Move throttle control to LOW IDLE and run engine for 5 minutes (per O&MM)
- Turn key start switch to OFF and remove key
- Run engine at low idle for 5 minutes to allow engine to cool
- 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
- Turn battery disconnect switch to OFF
- Dismount machine using 3-point contact
- Block wheels and remove disconnect switch key if parking for extended period
- Conduct post-operation walk-around inspection

### NOTES:

Inspected by: ________________________ Date: __________ Time: __________