



# Start-Up & Shutdown Procedures 60xx

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.

Was procedure step completed properly?	√	Evaluator Comments
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### BEFORE STARTING THE MACHINE

Inspect the condition of the seat belt and mounting hardware Regardless of appearance, replace the seat belt after three years of use		
Adjust the seat so that full pedal travel can be achieved with the operator's back against the back of the seat		
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		
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		

### STARTING THE MACHINE

Turn the battery & starter disconnect switches ON (if equipped)		
Adjust seat for proper height and pedal reach		
Inspect, adjust, and fasten seat belt		
Inspect, adjust mirrors		
Ensure all implements are grounded		
Move the servo control switch to OFF		
Ensure all personnel are clear of machine		
Sound horn		
Turn key ON		
Observe BCS monitoring system		
Start right engine, then left engine		
Lift the ladder		

### MACHINE WARM-UP

Allow machine to warm up (per O&MM)		
Engage and disengage attachment controls to help speed up warmup of hydraulic components		
Turn engine speed dial to medium, run engine for 5 minutes and continuously move joystick from BUCKET DUMP to HOLD		
Cycle all controls to warm oil to circulate through all hydraulic cylinders and lines		
Observe BCS monitoring system		



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## MOVING THE MACHINE

Ensure area is clear		
Turn the engine speed dials to operating range		
Move the servo control switch to ON		
Raise boom		
Swing machine 360°		
Ensure the position of the upper structure and undercarriage is known; the drive sprockets should be at the rear of the machine		
Push both travel pedals forward at the same time to travel forward		

## MACHINE SHUT DOWN

Park machine on smooth, level area		
Lower all hydraulic implements		
Reduce speed of engines to low idle		
Move the servo control switch to OFF, apply swing & travel brake, and activate engine switch reduction		
Apply automatic idle timers		
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		
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 illuminate 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).		
Turn key start switch to OFF and remove key		
Dismount machine using 3-point contact		
Conduct post-operation walk-around inspection		

## NOTES:

Inspected by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_