



# Start-Up & Shutdown Procedures (D6N/D6T/D7E/D8T/D9T)

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

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 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		
Move direction control into NEUTRAL		
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)		
Check oil levels in power train, engine, and hydraulic systems when the oil is at operating temperature; maintain the oil levels to the FULL marks		
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		



Was procedure step completed properly?	✓	Evaluator Comments
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**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 brake tests (per O&MM)		
Depress brake pedal		
Release parking brake		
Move transmission direction selector to desired direction		
Release brake pedal and check for proper operation		
Use direction selector thumb wheel to select the desired machine gear or speed		

**MACHINE SHUTDOWN**

Park machine on smooth, level area		
Apply service brakes to stop the machine		
Move direction control to NEUTRAL position		
Engage the parking brake		
Lower all implements to ground; apply slight downward pressure		
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. <b>Use for emergency situations only.</b>		
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: \_\_\_\_\_

