



Start-Up and Shut Down Procedures – Motor Graders

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Operator/Inspector _____ Date _____ Time _____

Serial Number _____ Machine Hours _____

Was procedure step completed properly?	✓	Evaluator Comments
For more information, please refer to the Operation and Maintenance Manual or any other applicable manuals and instructions for this product. If you have questions, please contact your local Caterpillar dealer.		

STARTING THE MACHINE...

Perform walk around inspection		
Mount the machine using 3 points of contact		
Turn the battery disconnect switch to ON		
Fasten seat belt		
Make sure all implements are grounded		
Engage the parking brake		
Move the attachment control levers into HOLD		
Make sure all personnel are clear of the machine		
Turn the key start switch to ON		
Perform start-up test on EMS		
Turn the key start switch to START...Crank engine		

MACHINE WARM-UP...

Allow machine to warm-up for 5 minutes as low idle		
Engage and disengage attachment controls		
Cycle all controls to allow warm oil to circulate through all cylinders and lines		
Check gauges and action lights frequently		
Perform second part of EMS start-up test		

MOVING THE MACHINE...

Make sure are is clear of personnel and obstructions		
Raise all lowered implements		
Depress service brake pedal		
Release parking brake		
Move transmission control to desired direction and gear		
Release service brake pedal, check for proper operation		
Release transmission modulator pedal		
Push down on accelerator		

MAHCINE SHUT DOWN...

Park machine on smooth, level area		
Set the parking brake		
Lower and lock all hydraulic implements		
Allow engine to run at LOW IDLE for 5 minutes		
Turn key start switch to OFF and remove key		
Dismount machine using 3-point contact		
Conduct post-operation walkaround inspection		
Turn battery disconnect switch to OFF		

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