



Start-Up and Shut Down Procedures: Hydraulic Excavators

SAFETY.CAT.COMTM

Operator/Inspector _____ Date _____ Time _____
 Serial Number _____ Machine Hours _____

What are you inspecting?	<input checked="" type="checkbox"/> 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		
Ensure circuit breaker reset button remains depressed		
Adjust seat, adjust mirrors, fasten seat belt		
Move hydraulic lockout control to the LOCKED position		
Move the joysticks to HOLD position		
Make sure all personnel are clear of machine and sound horn		
Use ether start aid switch if necessary (per OMM)		
Turn the key start switch to ON		
Observe monitoring system self-test and add fluids if necessary		
Ensure that 'Intake Air Heater On' is not shown on the message display		
Turn engine speed dial to "Medium" position		
Turn the key start switch to START and crank engine		

MACHINE WARM-UP

Allow machine to warm up (per required time in OMM)		
Engage and disengage attachment controls to help speed warm-up of hydraulic components		
Turn engine speed dial to medium...run engine for 5 minutes. Continuously move joystick from BUCKET DUMP to HOLD		
Cycle all controls to allow warm oil to circulate through all hydraulic cylinders and lines		
Check gauges, indicators and action light frequently		

MOVING THE MACHINE

Make sure area is clear		
Turn the engine speed dial to the operating range		
Move hydraulic lockout control to UNLOCKED position		
Raise boom		
Select desired travel speed		
Ensure the position of the upper structure and undercarriage is known. The drive sprockets should be at the rear of the machine		
Turn engine speed dial to desired speed		
Push both travel levers forward at the same time to travel forward		

MACHINE SHUT DOWN

Park machine on smooth, level area		
Reduce engine speed		
Lower all hydraulic implements		
Move hydraulic lockout control to the LOCKED position		
Run engine at low idle for 5 minutes to allow engine to cool		
Turn key start switch to OFF and remove key		
Dismount machine using 3-point contact		
If parking for extended period: Block tracks, remove disconnect switch key and install vandalism guards		
Conduct post-operation walk around inspection		

[HTTP://SAFETY.CAT.COM/CHECKLISTS](http://SAFETY.CAT.COM/CHECKLISTS)

V0611.1

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