KEAM019301

Operation & Maintenance Manual

D51EXi-22
D51PXi-22

CRAWLER DOZER

SERIAL NUMBERS	D51EXi-22 B13500 and up D51PXi-22 B13500 and up
ENGINE	6D107E-1

August 2014

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ADJUST PLAY IN CENTER BALL

⚠ WARNING

When adjusting, always set the work equipment lock lever to the LOCK position except when operating the blade.

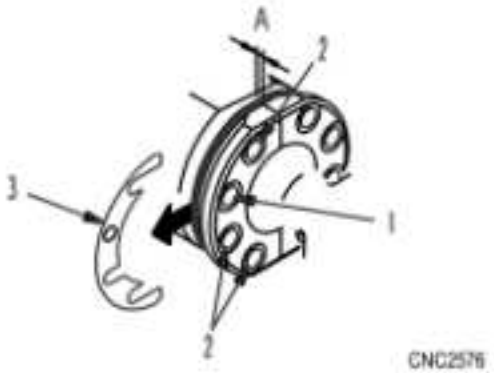
When the blade assembly has been removed for transportation, the play of the center ball must be adjusted when assembling it again. If this is not done, soil will enter and cause premature wear or damage of the ball and vibration of the work equipment, so adjust as follows.

Remove bolts (1) loosen remaining bolts (2), then remove shims (3).

With shims (3) removed, hand tighten all bolts evenly so that clearance "A" is even all the way around.

Measure clearance (A), then add 0.2 to 0.7mm to calculate the required shim thickness. Assemble this shim thickness.

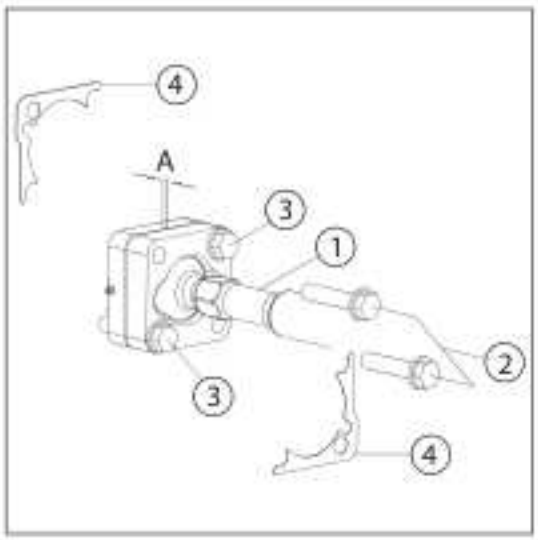
- Standard shim thickness: **(A) 6 - 8 mm.**
- Thickness of shim: **0.5 mm, 1.0 mm.**
- Tightening torque: **608 - 726 Nm.**



ADJUST PLAY IN PITCH BALL

Adjust play in pitch rod (1) as follows:

- Remove the two bolts (2) required to remove the shims.
- Loosen the remaining two bolts (3).
- Remove all the shims.
- Hand tighten all four bolts so that clearance "A" is even all the way around.
- Meassure "A".
- Install shims such that shim thickness is "A" + 0.2 - 0.7mm.
- Standard shim thickness: **6 - 8 mm**.
- Thickness of shim: **0.5 mm, 1.0 mm.**
- Tightening torque: **823-1029 Nm**

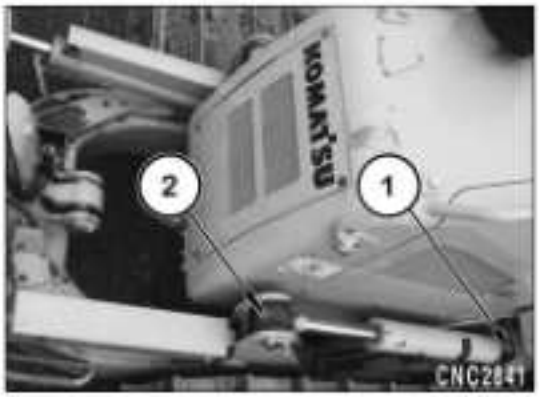


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If dirt or sand is found due to work in soft ground, carry out greasing every ten hours of operation.

1. Lower the blade to the ground, then stop the engine.
2. Using a grease pump, pump in grease through the grease fittings shown by arrows.
3. After greasing, wipe off any old grease that was pushed out.

Lift cylinder bottom pin (two place) (1).
Lift cylinder head pin (two places) (2).



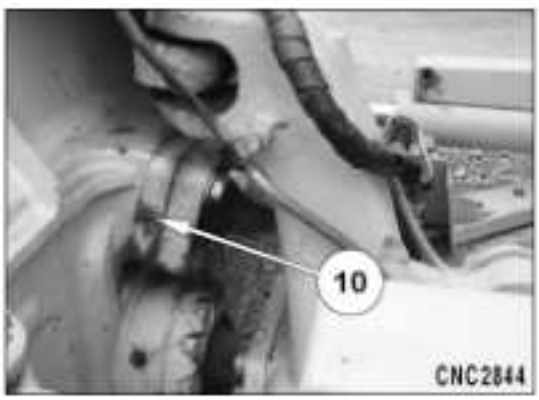
Frame mounting pin (two places) (4).



Frame center ball (one place) (13).



Pitch rod ball (10).



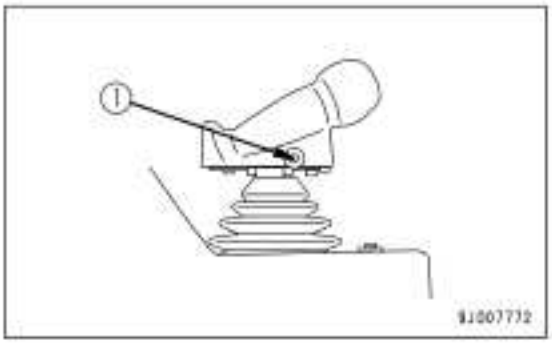
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STOPPING ENGINE

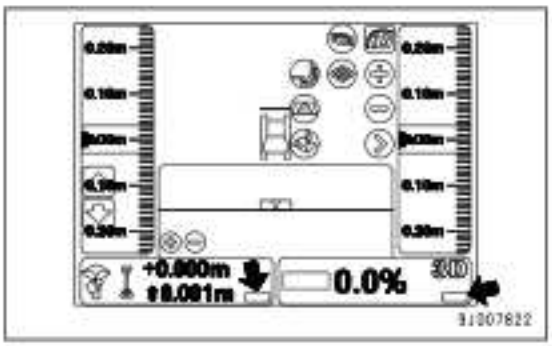
NOTICE

The power supply of iB monitor is not linked with the starting switch of the machine. After finishing the operation, press the power OFF switch of iB monitor to turn iB monitor power OFF.
If the power supply of iB monitor is not turned OFF, the batteries may be exhausted.

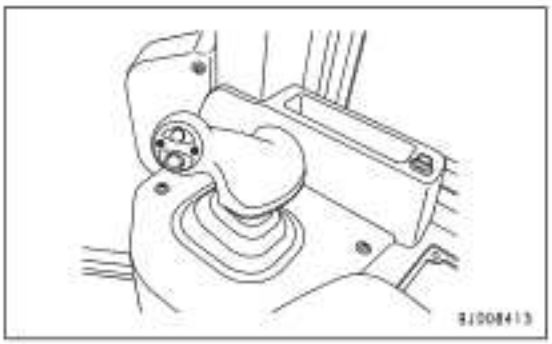
1. Press auto/manual switch (1) once to turn the automatic control of blade OFF.



2. Check that there is no "AUTO" display on the iB monitor.



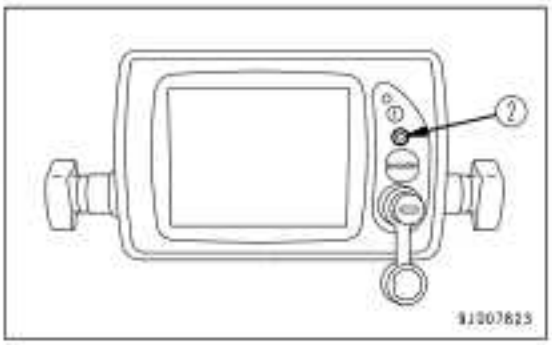
3. Operate the blade control lever to lower the blade to the ground.



4. Press power OFF switch (2) to turn iB monitor power OFF.

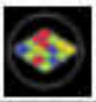
REMARK

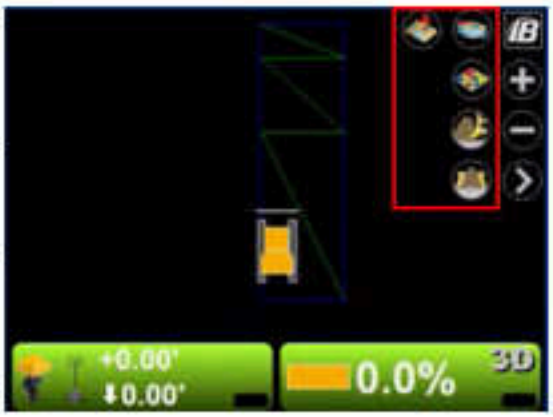
After pressing power supply OFF switch, it takes approximately 2 minutes until the software is finished and Windows® operating system shuts down.
During this time, you can turn the starting switch of the machine to OFF position, proceed to the following step.



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SHORTCUT FUNCTIONS ON THE MAIN SCREEN

	Shortcut to cycle As-built view
	Shortcut to start or stop As-built surface update
	Shortcut to cycle dozing mode
	Shortcut to cycle load mode for dozing
	Shortcut to take a topo shot for Topographic Survey



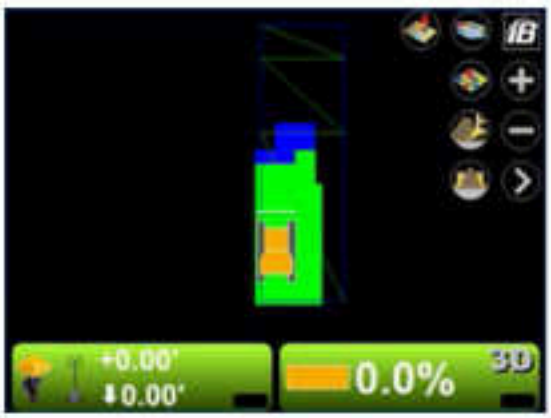
SHORTCUT TO CYCLE AS-BUILT VIEW

1. Press shortcut button.
2. You can cycle As-built view for Cut Fill, Pass Counts or none.

As-built view for none



As-built view for Cut Fill or Pass Counts



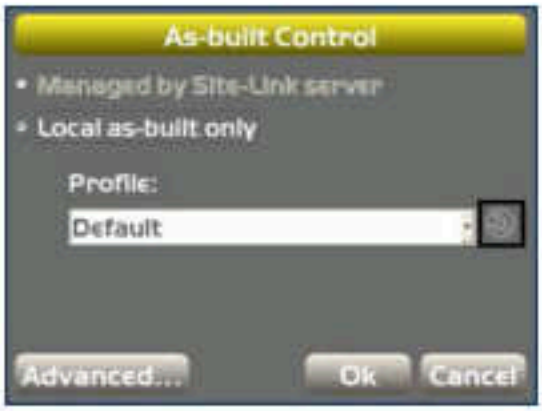
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SETTING AS-BUILT CONTROL OPTIONS

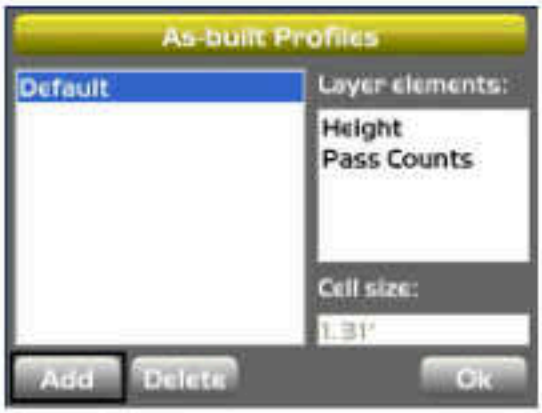
1. Press **iB Logo** → **Control** → **As-built control**



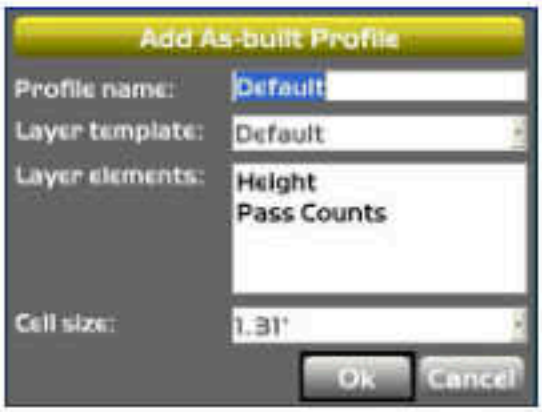
2. Press **Wrench Mark** button.



3. Press **Add** button.



4. Create a As-built Profile.
5. Press **OK**.



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