

PARTS & SERVICE NEWS

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(C)

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This Parts and Service News supersedes the previous issue AA00200 dated August 25, 2000. The previously issued Parts and Service News should be discarded.

SUBJECT: IMPROVE BLADE LOWERING PERFORMANCE

PURPOSE: To eliminate vibration when lowering the blade, particularly the 14 foot blade.

APPLICATION: 830B Motor Grader Serial Numbers 210688 and down.
 830C Motor Grader Serial Numbers 210688 and down.
 850B Motor Grader Serial Numbers 210688 and down.
 850C Motor Grader Serial Numbers 210688 and down.
 870B Motor Grader Serial Numbers 210688 and down.
 870C Motor Grader Serial Numbers 210688 and down.
 GD530A-2BY Motor Grader Serial Numbers 210688 and down.
 GD530A-2CY Motor Grader Serial Numbers 210688 and down.
 GD530AW-2BY Motor Grader Serial Numbers 210688 and down.
 GD530AW-2CY Motor Grader Serial Numbers 210688 and down.
 GD650A-2BY Motor Grader Serial Numbers 210688 and down.
 GD650A-2CY Motor Grader Serial Numbers 210688 and down.
 GD650AW-2BY Motor Grader Serial Numbers 210688 and down.
 GD650AW-2CY Motor Grader Serial Numbers 210688 and down.
 GD670A-2BY Motor Grader Serial Numbers 210688 and down.
 GD670A-2CY Motor Grader Serial Numbers 210688 and down.
 GD670AW-2BY Motor Grader Serial Numbers 210688 and down.
 GD670AW-2CY Motor Grader Serial Numbers 210688 and down.

FAILURE CODE: H1AJ5B

DESCRIPTION: It has been reported that some moldboards flutter or vibrate when lowered. The following PSN will install new dual counterbalance valve cartridges to reduce the instability within the cartridge that causes this to happen.

The following replacement parts must be ordered:

No.	Part Number	Quantity	Description
1	1440 166 H91	4	Cartridge

Valve Cartridge Installation

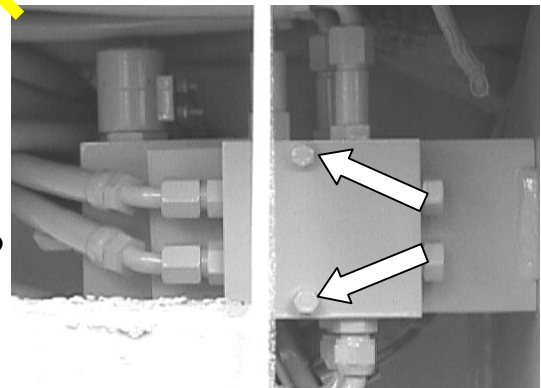
1. Lower the blade so it rests on the ground.
2. Locate the dual counterbalance valve assembly on the left side of the machine, under the cab.



3. The valve cartridges that need to be replaced are on the inside of the mounting bar, as shown, looking at the assembly from under the machine.



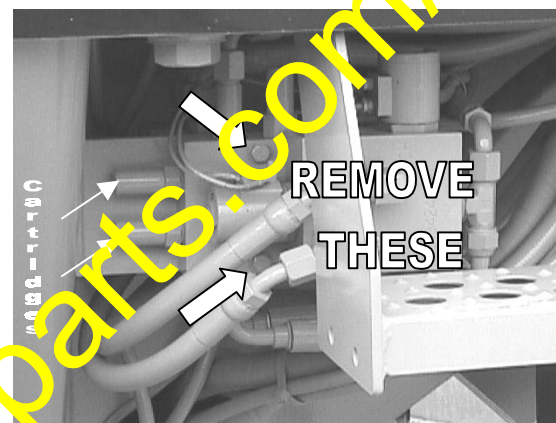
4. Remove both of the 5/16 inch nuts and mounting bolts. Pivot the valve block clockwise to allow enough room to remove the old cartridges. It may be necessary to loosen the horn mounting bracket and rotate the horn out of the way, or to remove the horn.
5. Place a container on the ground under the valve block to catch excess hydraulic fluid. A cup or so of hydraulic fluid may leak out when the cartridges are loosened.
6. Loosen and slowly back out the cartridges. Replace the old cartridges (2) with new ones (1440 166 H91). Tighten each to 10~35 lbf ft (40.7~47.4 N•m) with a 7/8 inch wrench.
7. Reinstall the 5/16 inch mounting bolts and nuts. Tighten to 15~17 lbf ft (20.3~23.0 N•m). Reinstall the horn in its original position.



8. Locate the dual counterbalance valves on the right side of the machine, under the cab. On this side of the machine, the cartridges are toward the outside and can be seen in these pictures.

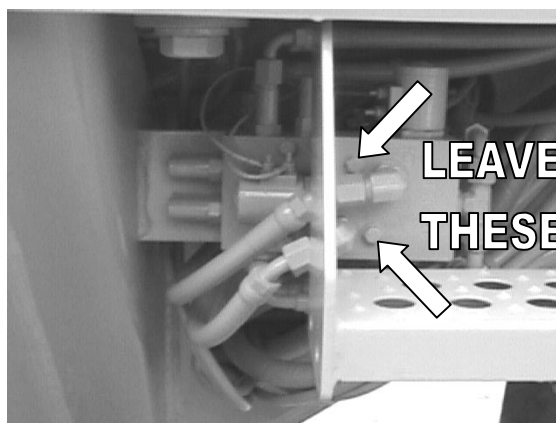


9. Remove the two 5/16 inch mounting nuts and bolts illustrated in the picture. Do not confuse them with those in the following picture. It may be necessary to loosen and pivot one or both of the hose fittings seen in these pictures in order to get the lower bolt out.



10. When the bolts are pulled out, two spacers should fall out. Be sure to put these back as indicated later.

11. Rotate the valve block counter-clockwise to a low enough room to get the old cartridges out. Place a container under the valve block to catch excess hydraulic fluid.
12. Slowly back each cartridge (2) out and replace it with a new one (1440 106 H31). Tighten to 30~35 lbf ft (40.7~47.4 N•m) with a 7/8 inch wrench.



13. Reinstall the valve block mounting hardware. After pushing the bolts through, put the spacers back in place as shown. Tighten to 15~17 lbf ft (20.3~23.0 N•m). Finally, tighten any hose fittings that were loosened in the process.

