PARTS & SERVICE NEWS

REF NO.	AT01207
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SUBJECT: REPAIR OF REAR DIFFERENTIAL CARRIER MOUNTING BOLT BREAKAGE ON WA1200-3

PURPOSE: To introduce modification procedure to repair a failure that the rear axle differential carrier mounting bolt is broken on WA1200-3 wheel loaders

APPLICATION: WA1200-3 Wheel Loaders, Serial Nos. 50001 thru 50010

FAILURE CODE: 2B24FM

DESCRIPTION:

1. Introduction
   On the WA1200-3 wheel loaders, in case the rear axle differential carrier ass'y mounting bolt is broken or loosened, make the modification outlined in this Service News to repair the trouble.

2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
42C-23-10003 (42C-23-10002)	Rear axle A (Rear axle A)	Reworked	1 (1)	Reworking procedure is as per this Service News.
42C-23-13510 (New)	Spacer	Addition	7	Improved parts
42C-23-13520 (42C-22-13320)	Tee (Tee)	Replacement	1 (1)	Improved parts
01011-63085 (01010-63085)	Bolt (Bolt)	Replacement	7 (7)	Improved parts
01011-63085 (01010-63080)	Bolt (Bolt)	Replacement	1 (1)	Improved parts
42C-46-17150	Seal	Replacement	1	Consumable parts when making this modification (Replace them if broken)
42C-46-17160	Seal	Replacement	1	Consumable parts when making this modification (Replace them if broken)

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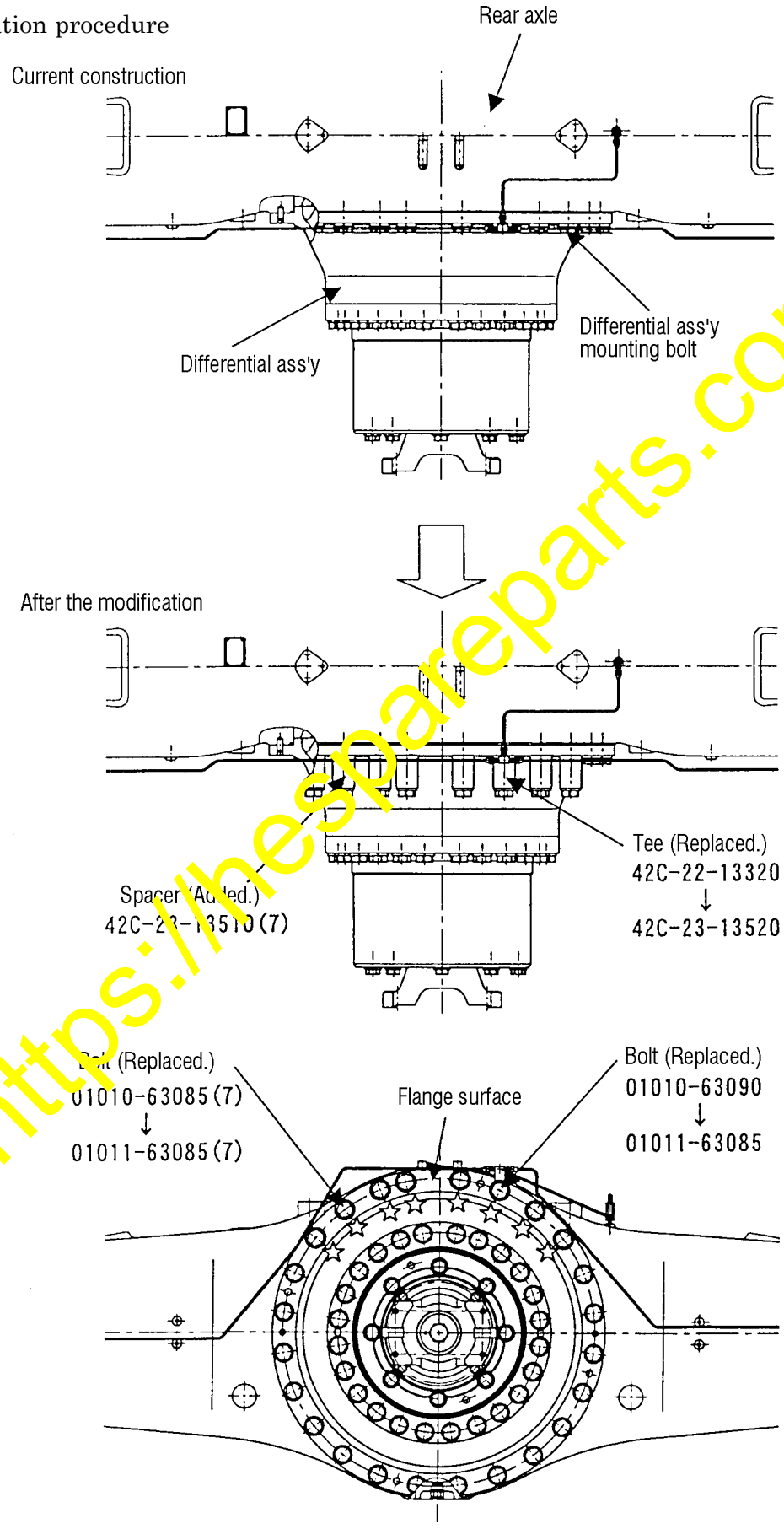
3. Contents of the modification
   By adding spacers to the 8 places marked ☆ of the rear differential ass'y mounting bolts, stress to the bolts are reduced.

4. Modification procedure



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(1) Dismounting of the rear axle
Dismount the rear axle after releasing the brake oil pressure.

① Park the machine on a horizontal place, set the safety bar to the frame and apply scotches to the tires.
② Jack up the machine, place the block under the rear frame and, also, support the lower section of the counter-weight with the supporting stand.
③ Temporarily hang the LH and RH tire wheels, remove the hub nuts and hang the tires to remove them.
Tire wheel: 9,150 kg
Tightening torque: 1,470 – 1,810 Nm {150 – 185 kgm}
④ Separate the rear propeller shaft from the rear axle.
Rear propeller shaft: 215 kg
⑤ Separate the hose between the brake pedal and the slack adjuster at the slack adjuster side.
⑥ Separate the brake cooling piping.
⑦ Separate the grease tube from the axle supports on the front side and on the rear side.
⑧ Fix the axle support and the rear axle by chain, etc.
⑨ Remove the support mounting bolts.
Tightening torque: 4,510 – 5,490 Nm {460 – 560 kgm}
⑩ Place an iron sheet on the ground and hang down the rear axle.
Rear axle ass'y: 16,500 kg (including the oil)
⑪ Pull out the rear axle from under the machine body to the side direction.
⑫ Remove the front side support from the rear axle. (Be careful not to damage the packing.)
Front support: 630 kg

(2) Enforcement of the modification

① Separate the connecting section (at 3 places) of the piping being connected to the tee (42C-22-13320).
② Remove the bolt (01010-63090), washer (01643-33080) and tee (42C-22-13320).
③ Remove the connector (07214-70710) being installed to the tee (42C-22-13320).
④ Install the connector (07214-70710) to the new tee (42C-22-13520).
⑤ Take off the paint completely from the section of the flange surface with which the tee (42C-22-13520) comes in contact.
⑥ Mount the tee (42C-22-13520) by the bolt (01011-63085) and washer (01643-33080).
Tightening torque: 1,520 – 1,910 Nm {155 – 195 kgm}
⑦ Remove the bolts (01010-63085) and washers (01643-33080) from the remaining 7 places marked ☆.
⑧ Completely take off the paint from the 7 places on the flange surface with which the spacer (42C-23-13510) comes in contact.
⑨ Mount the spacers (42C-23-13510) by the bolts (01011-63085) and washers (01643-33080) at the 7 places.
Tightening torque: 1,520 – 1,910 Nm {155 – 195 kgm}
⑩ Connect the piping to the connector of the tee (42C-23-13520).
Tightening torque: 15.7 – 23.5 Nm {1.6 – 2.4 kgm}

(3) Mounting of the rear axle.
Mount the rear axle in the reversed processes to the dismounting processes.

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