

PARTS & SERVICE NEWS

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SUBJECT: IMPROVEMENT BEVEL GEAR MOUNT BOLT

PURPOSE: To introduce modification procedures to replace the bevel gear mounting bolts for the differential

APPLICATION: WA350-3 Wheel Loaders, S/N 50001 thru 53220 and 60001 thru 63047
 WA380-3 Wheel Loaders, S/N 50001 thru 53085
 WA380-3L Wheel Loaders, S/N A50001 and up
 WA380-3MC Wheel Loaders, S/N A51001 thru A51009 (Std. Front Axle)
 WA380-3MC Wheel Loaders, S/N A51001 thru A51051 (Std. Rear Axle)
 WA380-3MC Wheel Loaders, S/N A51001 and up (LSD Front Axle)
 WA380-3MC Wheel Loaders, S/N A51001 and up (LSD Rear Axle)
 WF350-3 Wheel Loaders, S/N 53001 and up

FAILURE CODE: 2A3738

DESCRIPTION:

Introduction:

When these wheel loaders are used under excessive loads such as when making slag disposal work, the bevel gear mounting bolts for the differential may break. When such a failure occurs, eliminate the failure replacing the mounting bolts with the improved parts following the procedures outlined in this **PARTS & SERVICE NEWS**.

List of parts:

PART NUMBER	PART NAME	PURPOSE OF PART	QTY.	REMARKS
423-22-20002 (423-22-20001)	Axle (F) Ass'y (Axle (F) ass'y)	R E W O R K E D	1 (1)	Front Axle with standard differential
423-23-20002 (423-23-20001)	Axle (R) Ass'y (Axle (R) Ass'y)		1 (1)	Rear Axle with standard differential
423-22-27500 (423-22-27101)	Diff. Ass'y (Diff. Ass'y)		2 (2)	Limited slip differential
423-22-20053 (423-22-20052)	Axle (F) Ass'y Axle (F) Ass'y		1 (1)	
423-23-20053 (423-23-20052)	Axle (R) Ass'y Axle (R) Ass'y	R E P L A C E M E N T	1 (1)	
423-22-21300 (423-22-21200)	Pinion & Gear (Pinion & Gear)		2 (2)	
423-22-21600 (423-22-21500)	Case A. (Case A.)		2 (2)	Case assembly for the standard differential
423-22-27510 (423-22-27111)	Case A. (Case A.)		2 (2)	Case assembly for the Limited Slip Differential
01010-61440 (01010-61440)	Bolt (Bol)		48 (36)	The quantity has been changed
01643-31445 (01643-31445)	Washer (Washer)		48 (36)	

Remarks: Use the current inventory parts for ordinary repair work than what is introduced in this **PARTS & SERVICE NEWS** and for overhauling work.

Contents of the modification:

The quantity of the bevel gear mounting bolts for the differential has been increased and the torque holding power of the gear mounting surface has been augmented.

Improvement content	Current structure	Improved structure
Bolt Quantity	18	24

Modification procedures:

Disassembly and reassembly:

Make this modification referring to Section "Disassembly and assembly of the differential" in the Shop Manual for model of vehicle to be modified.

Modification contents

Replace the bevel pinion, bevel gear and the case assembly with the improved parts and supplement the mounting bolts to total quantity of 24. At this time, change all the bolts with the new parts and apply Loctite (LT-2) before tightening them.

Tightening Torque: 157 - 196 Nm (16 - 20 kgm)

