

# PARTS & SERVICE

REF NO.	AT04024			
DATE	Feb. 5, 2004			
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SUBJECT: IMPROVED DURABILITY PARTS OF FRONT AND REAR SUSPEN-

SIONS ON HD465-5/-7 AND HD605-5/-7

**PURPOSE:** To introduce modification procedure of improved durability parts of the

front and rear suspensions of HD465-5/-7 and HD605-5/-7 dump trucks

**APPLICATION:** HD465-5 Dump Trucks, Serial Nos. 4407 and up (All vehicles)

HD465-7 Dump Trucks, Serial Nos. 7001 thru 7119, 7126

7141 thru 7178

HD605-5 Dump Trucks, Serial Nos. 1001 and up (All venices)

HD605-7 Dump Trucks, Serial Nos. 7001 thru 7083

**FAILURE CODE:** 5A00AA

#### **DESCRIPTION:**

#### 1. Introduction

This Service News will introduce the parts and notification procedure to improve durability of the front and rear suspensions in the HD465 and HD605 dump trucks when they are being used in severe operating conditions (like overloaded operations, traveling on bumpy surface roads, high speed traveling, operating in high outside air temperature, etc.) to cause oil leakage num the seal in a short period of time.

## 2. List of parts

No.	Part No.	Part Name	Q'ty	Remarks		
Front suspension ass'y						
0	569-50-6T400 (569-50-61006)			Standard suspension for HD465-5		
	569-88-6T700 (569-88-62002)	Front suspension ass'y (Front suspension ass'y)	2 (2)	Standard suspension with ABS for HD465-5		
	569-50-6T100 (569-50-63007)	Front suspension ass'y (Front suspension ass'y)	2 (2)	Automatic suspension with PLM for HD465-5		
	569-88-6T600 (569-88-63003)	Front suspension ass'y (Front suspension ass'y)	2 (2)	Automatic suspension with FUM and ABS for HD465-5		
	569-50-8T400 (569-50-81001)	Front suspension ass'y (Front suspension ass'y)	2 (2)	Standard suspension with PLM for HD465-7		
	569-50-8T100 (569-50-83001)	Front suspension ass'y (Front suspension ass'y)	2 (2)	Automatic suspension with PLM for HD465-7		
Fr	ont suspension par	 rts				
2	707-51-16640	Ring, buffer	6			
3	569-50-6A180 (566-50-11180)	Bushing (Bushing)	(2)			
4	569-50-65140 (569-50-61141)	Flange (Flange)	2 (2)			
7	07000-15190 (07000-15190)	O-rivg (C rin z)	2 (2)	Congumable payts		
8	07001-05190 (07001-05190)	Ring, backup (Ling, backup)	2 (2)	Consumable parts		
R	ear suspension ass	ı S'y ı				
10	(56 <sup>3</sup> -50-3B101)	Rear suspension ass'y (Rear suspension ass'y)	2 (2)	Without PLM for the HD465-5		
	569-50-6T201 (569-50-6B201)	Rear suspension ass'y (Rear suspension ass'y)	2 (2)	With PLM for the HD465-5		
	569-50-8T901 (569-50-82000)	Rear suspension ass'y (Rear suspension ass'y)	2 (2)	Without PLM for the HD465-7		
	569-50-8T201 (569-50-84000)	Rear suspension ass'y (Rear suspension ass'y)	2 (2)	With PLM for the HD465-7		

No.	Part No.	Part Name	Q'ty	Remarks
Rear suspension parts				
12	707-51-18640	Ring, buffer	2	
13	569-50-6B220 (569-50-11221)	Bushing (Bushing)	2 (2)	
14	569-50-65190 (569-50-6B250)	Flange (Flange)	2 (2)	
16	01011-61205 (01010-61290)	Bolt (Bolt)	16 (16)	
17	07000-15210 (07000-15210)	O-ring (O-ring)	2 (2)	
18	07001-05210 (07001-05210)	Ring, backup (Ring, backup)	2 (2)	Consumable parts
19	569-50-6T131 (569-50-6B130)	Rod (Rod)	2 (2)	To be additionally worked locally (HD465-5)
	569-50-8T131 (569-50-82130)	Rod (Rod)	(2)	To be additionally worked locally (HD465-7)
20	569-93-73960 (561-93-63960)	Plate, decal (Plate, decal)	2 (2)	English version
	569-93-78960 (561-93-68961)	Plate, decal (Plate, decal)	2 (2)	Indonesian version

### 3. Details of the modification

## (1) Front suspension

	Improved s	uspension	Current suspension		
Contents of the modification	<ul> <li>The material of the changed.(DD ← DI</li> <li>A buffer ring has been as the flange has been as the flang</li></ul>	U) een added.			
Structure	24 873				
	2. Buffer ring	707-51-16640			
Part No.	3. Bushing 569-50-6A180 4. Flange 569-50-65140		<ul><li>3. Bushing</li><li>4. Flange</li></ul>	566-50-11180 569-50-61141	
Par	7. O-ring 8. Backup ring	07000-15190 07001-05190	7. O-ring 8. Backup ring	07000-15190 07001-05190	

\* No. 7, 8 parts are consumable parts.

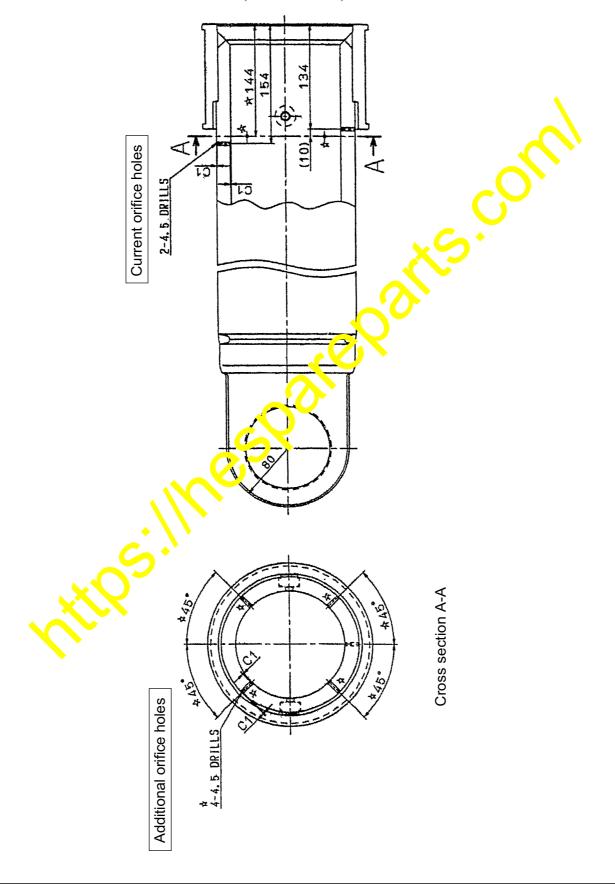
### (2) Rear suspension

	Improved sus	pension	Current suspension		
Contents of the modification	<ul> <li>The material of the bechanged.(DD ← DU)</li> <li>A buffer ring has been</li> <li>The flange has been of the flange has been changed.</li> <li>Number of orifice hosincreased by addition (2 places → 6 places)</li> <li>The decal plate has been</li> </ul>	n added. changed. ge mounting bolt les in the rod are tal working.			
Structure	1 9 1 3 1 7 1 8 1 4 1 2 1 6				
Part No.	12. Buffer ring 13. Bushing 14. Flange 16. Bolt 17. O-ring 18. Backup ring 19. Rod (For HD465-5) (For HD465-7)	707-51-18640 569-50-6B220 569-50-65190 01011-61205 07000-15210 07001-05210 569-50-6T131 569-50-8T131	<ul> <li>13. Bushing</li> <li>14. Flange</li> <li>16. Bolt</li> <li>17. O-ring</li> <li>18. Backup ring</li> <li>19. Rod (For HD465-5)</li> <li>(For HD465-7)</li> </ul>	569-50-11221 569-50-6B250 01010-61290 07000-15210 07001-05210 569-50-6B130 569-50-82130	

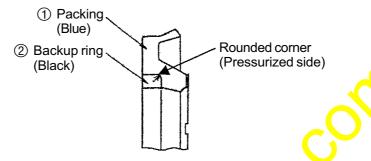
- $\star$  No. 17 and 18 parts are consumable parts.
- \* Regarding the No. 19 part, current part can be reused after carrying out additional working.

#### 4. Modification procedure

- (1) Carry out the disassembly and reassembly work referring to the Shop Manual when replacing the parts with the improved ones.
- (2) Add the orifice holes with a  $\phi$  4.5 drill at the four places marked  $\stackrel{\sim}{\sim}$  in the drawing below of the disassembled rod (561-50-6B130).

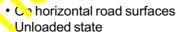


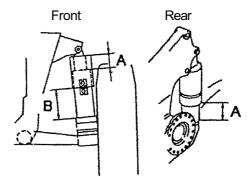
- (3) After the additional working to add the orifice holes on the rod, remove burrs completely from the inside and outside surfaces. Also, before reassembling the rod, remove cutting chips which have entered into the piston section of the rod completely by air blow.
- (4) Since the buffer ring which is to be added newly is made of two sections of (1) packing section (being colored blue) and ② backup ring section (being colored black), install the rounded corner side of the ② backup ring section into the ① packing section.



(5) When adjusting the mounted length of the suspension cylinder after this modification work, carry out the adjustment work regring to the "Modified value" of the adjustment standard indicated in the Table velow.

					(Unit: mm)	_
Item		Vehicle moat	HD465	HD605		
Mounted length	Front -	A	Current value  Mod fied value	$\begin{array}{c} 249 \pm 10 \\ \downarrow \\ 249 \pm 10 \end{array}$	$249 \pm 10$ $\downarrow$ $249 \pm 10$	Remain the same.
		В	Current value  Modified value	$516 \pm 10$ $\downarrow$ $516 \pm 10$	$\begin{array}{c} 516 \pm 10 \\ \downarrow \\ 516 \pm 10 \end{array}$	Remain the same.
	Rear	A	Current value  Modified value	$\begin{array}{c} 220 \pm 10 \\ \downarrow \\ 204 \pm 10 \end{array}$	$\begin{array}{c} 220 \pm 10 \\ \downarrow \\ 204 \pm 10 \end{array}$	





(Note) When charging the nitrogen (N2) gas, since the gas will be dissolved into the new oil and the dimension "A" will be shortened, charge it somewhat in excess (by 20 - 30 mm).

After operating the vehicle for 24 to 48 hours, inspect the cylinders for gas leakage, oil leakage and check the dimension "A". When necessary, carry out re-adjustment of the dimension "A".

(6) Remove the decal with the current part number and the current dimension "A" of the rear suspension and attach the decal with the new part number and the modified new dimension "A".

(1 plate each on each of the LH side and the RH side)

