COMPONENT CODE	
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PARTS & SERVICE	
NEWS	

REF NO. AA03155B

May 5, 2004 DATE

(C)

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This Parts & Service News supersedes AA03155 dated Nov. 4, 2003, AA03155A dated April 19, 2004 and AT04025 dated Feb. 5, 2004, all three should be discarded.

SUBJECT: **REWORK PROCEDURE TO IMPROVE DURABILITY OF FRONT AND** REAR SUSPENSION

PURPOSE: To introduce rework procedure to improve durability of the front and rear suspension on dump trucks.

APPLICATION: Komatsu Mechanical Drive Dump Trucks: 330M: 24120 - 24605, A10190 - A10223, A10225 - A102 A10231 and A10232 HD785-3: S/N 2487 and UP HD785-5: 4001 - 4445 HD785-5LC: A10144, A10224, A10228 - A10270, A10275 - A10315 HD985-3: 1001 and UP HD985-5: 1001 - 1070

FAILURE CODE: 5A00AA

DESCRIPTION: Front suspension kit (XK0257) and rear suspension kit (XK0261)

This Parts & Service News will introduce necessary improvements parts and rework procedure to improve durability of the front and rear sustension on the specified dump trucks when they are being used in severe conditions, such as overloaded, traveling on rough roads, high speed traveling, operating in high outside air temperatures, etc.). Applications where average vehicle speed (odometer rating/SMR) is greater than 7 MPH will benefit from these kits and rework procedure.

NOTE: A special tool is required in install the new bushing inside the front suspension. See page 9 (Figure 1) for details on how to fabricate the tool locally.

NOTE: During re-assessory, the front suspension requires a special sealant (LG-6), part number is *TB1215*.

Existing suspensions should not be installed (mixed with) with the newest suspensions or ones that have been reworked with parts introduced in this Parts & Service News. Front suspensions and rear suspensions must be similar to each other as the charging heights are different after this rework is performed.

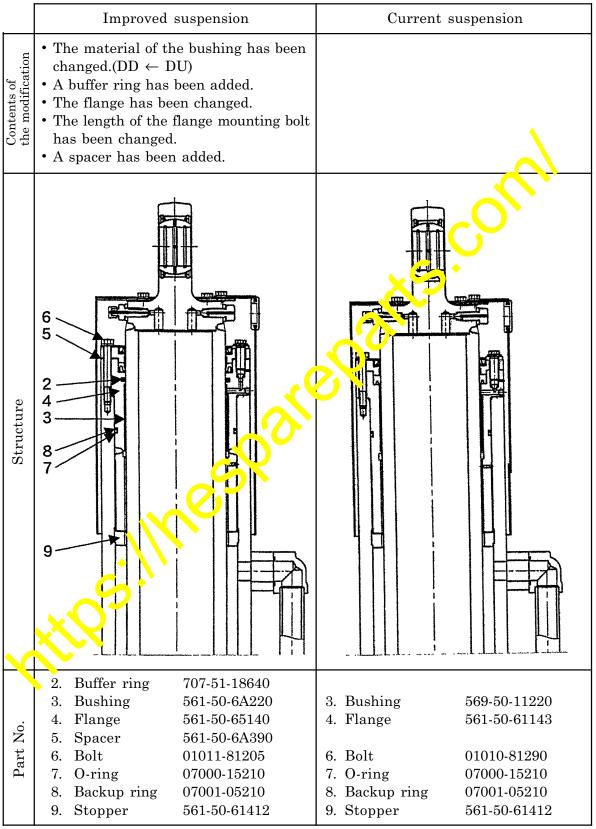


	of Parts	D (NT		D 1
No.	Part No.	Part Name	Qty	Remarks
		Front Suspension A	ssembly	
	561-50-6T400 (EK1143)	Front Suspension (Front Suspension)	2 (2)	Standard Suspension (330M: 24482 & UP, A10190 & UP) (HD785-5LC: A10144, A10224 & UP)
	561-50-6T400 (561-50-61005)	Front Suspension (Front Suspension)	2 (2)	Standard Suspension (330M: 24120 - 24448)
	561-50-6T700 (561-50-67001)	Front Suspension (Front Suspension)	2 (2)	Standard Suspension plus ABS
1	XK0257	Front Suspension Kit	2	Includes Item No. 2 tyru 9
2	707-51-18640	Ring, Buffer	2	,
3	561-50-6A220 (569-50-11220)	Bushing (Bushing)	2 (2)	~0`
4	561-50-65140 (561-50-61143)	Flange (Flange)	2 (2)	
5	561-50-6A390	Spacer	2	X
6	01011-81205 (01010-81290)	Bolt (Bolt)	15 (1()	
7	07000-15210 (07000-15210)	O-ring (O-ring)	6	
8	07001-05201 (0700-15210)	Ring, backup (Ring, backup)	2 (2)	Consumable Parts
9	561-50-61412 (561-50-61412	Stopper (Stopper)	2 (2)	
		Kez-Su pension A	ssembly	
10	561-50-6T901 (EJ7178)	I car Suspension	2 (2)	(330M: A10190 & UP) (HD785-5LC: A10144, A10224 & UP)
10	561-50-6T901 (561-50-62003)	Rear Suspension	2 (2)	(330M: 24120 - 24605)
10	561-50-6Т9 1 (561-50- ля 20)	Rear Suspension	2 (2)	Without PLM
		Rear Suspension	Parts	
11	X.2º261	Rear Suspension Kit	2	Includes Items 12 thru 20
12	707-15-20640	Ring, buffer	2	
13	561-50-6B330 (568-50-11330)	Bushing (Bushing	2 (2)	
14	561-50-6B190 (561-50-6A150)	Flange (Flange)	2 (2)	
15	561-50-6B930	Spacer	2	
16	01011-81420 (01011-81400)	Bolt (Bolt)	16 (16)	

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17	07000-15240 (07000-15240)	O-ring (O-ring)	2 (2)	
18	07001-15240	Ring, backup	2	Consumable Parts
0	(07001-05240)	(Ring, backup)	(2)	
.9	561-50-6T131 (561-50-6B130)	Rod (Rod)	2 (2)	Additional local work required
20	561-93-73960	Plate, decal	2	English version
	(561-93-63960) 561-93-78960	(Plate, decal) Plate, decal	(2)	
20	(561-93-68961)	(Plate, decal)	(2)	Indonesian version

- 3. Details of the modification
 - (1) Front suspension



* No. 7, 8 and 9 parts are consumable parts.

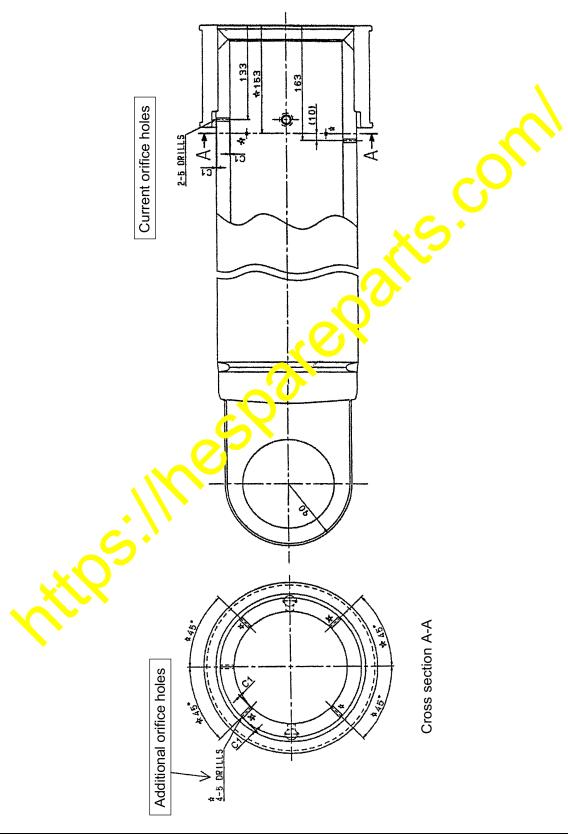
(2) Rear suspension

	Improved	suspension	Current s	suspension
Contents of the modification	 The material of the changed.(DD ← D A buffer ring has The flange has been The length of the flange has been changed 	te bushing has been (U) been added. en changed. flange mounting bolt holes in the rod are tional working. es)		-
Structure	1 9 1 3 1 7 1 8 1 4 1 2 1 5 1 6			
Part No.	 P. Buffer ring 13. Bushing 14. Flange 15. Spacer 16. Bolt 17. O-ring 18. Backup ring 19. Rod 	707-51-20640 561-50-6B330 561-50-6B190 561-50-6B390 01011-81420 07000-15240 07001-05240 561-50-6T131	 Bushing Flange Flout Bolt O-ring Backup ring Rod 	568-50-11330 561-50-6A150 01011-81400 07000-15240 07001-05240 561-50-6B130

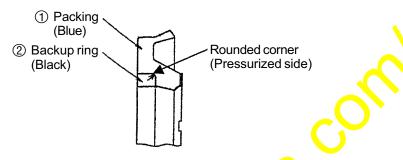
* No. 17 and 18 parts are consumable parts.

* 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 ϕ 5.0 drill at the four places marked $\stackrel{\wedge}{\asymp}$ in the drawing below of the disassembled rod (561-50-6B130).

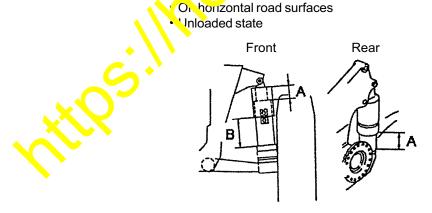


- (3) After the additional working to add the orifice holes on the rod, remove burrs completely from the inside and outside surfaces. Also, before reassembling the rod, remove cutting chips which have entered into the piston section of the rod completely by air blow.
- (4) Since the buffer ring which 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 referring to the "Modified value" of the adjustment standard indicated in the Table below.

					(Unit: mm)	
	Item		Vehicle model	HL 185/330M	HD985	
Mounted length			Current volu	262 ± 10	262 ± 10	
	Front	А	Modified value	$\begin{array}{c} \downarrow \\ 246 \pm 10 \end{array}$	$\downarrow 246\pm10$	
	110110	В	Current value	484 ± 10	484 ± 10	Remain the same.
			Monned value	$\overset{\mathbf{v}}{484 \pm 10}$	484 ± 10	
	Rear A		Carrent value	240 ± 10	250 ± 10	
		Modified value	\downarrow 220 ± 10	\downarrow 230 ± 10		
			Mounted value	220 ± 10	200 ± 10	l

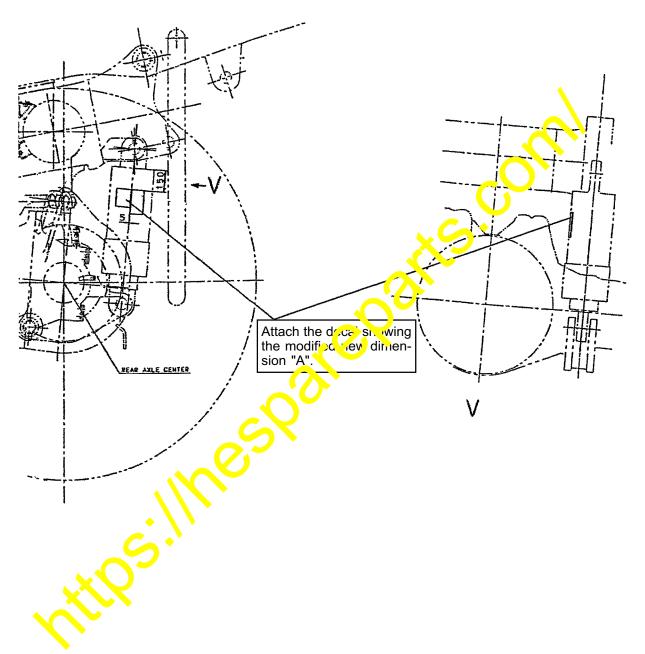


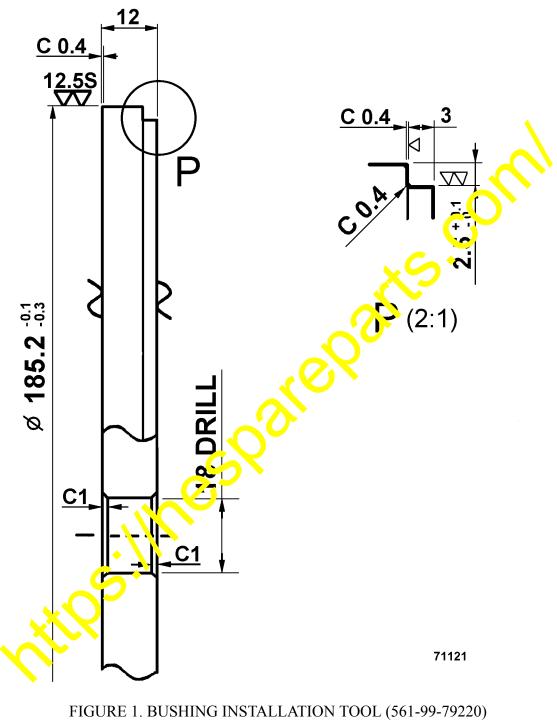
(Note) When charging the nitrogen (N₂) gas, since the gas will be dissolved into the new oil and the dimension "A" will be shortened, charge it somewhat in excess (by 20 - 30 mm).

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)





Material Specification: ASTM A36/A36M