

# PARTS & SERVICE NEWS

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**SUBJECT:** IMPROVEMENT OF FAN TENSIONER ON HD785-5, HD985-5 (SA12V140-1 ENGINE)

**PURPOSE:** To introduce modification procedures to improve the fan belt tension device on HD785-5 and HD985-5 dump trucks and other vehicles (with SA12V140-1 engines)

**APPLICATION:** Refer to page 5.

**FAILURE CODE:** A692FF

**DESCRIPTION:**

1. Introduction

Since the bearings and the mounting bolts of the fan belt auto tensioner may break due to the belt load occurring when the auto tensioner adjustment bolt is tightened or due to the excessive load occurring when the engine revolution is decelerated on the HD785-5 and HD985-5 dump trucks and other vehicles, make the modification introduced in this **Parts & Service News** to prevent occurrence of the aforesaid breakage.

## 2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks		
6215-61-3802 (6215-61-3801)	Tens. ass'y	Replacement	1	Replace the shaft with shaft 6215-61-3822. Further, use the individual parts as listed below for the modification.  Item Nos. in Parts Catalog are given below.		
6215-61-3822 (6215-61-3821)	Shaft (Shaft)	} Replacement	1 (1)	No. 1	} Spare parts to use in the neighborhood of the tensioner	
01011-81260 (01011-81255)	Bolt (Bolt)		2 (2)	No. 22		
01010-81245 (01010-81240)	Bolt (Bolt)		2 (2)	No. 23		
01643-31232	Washer	Addition	4	Add		
01011-81255 (01011-81250)	Bolt (Bolt)	} Replacement	1 (1)	No. 25		
01011-81200 (01010-81295)	Bolt (Bolt)		1 (1)	No. 26		
01010-81240 (01010-81235)	Bolt (Bolt)		1 (1)	No. 27		
01643-31232	Washer	Addition	3	Add		
6215-21-8790 (6215-21-8770)	Tube (Tube)	} Replacement	1 (1)	No. 9		} Spare parts to use in the neighborhood of the breather
01010-81220	Bolt		2	No. 10		
01010-81255	Bolt		1			
6127-11-5180	Washer	} Addition	1	Add		
01643-31232	Washer		1	Add		

### 3. Contents of the modification

- (1) Supplement a hard washer to each bracket (shaft) mounting bolt.
- (2) Change the number of using bolts from 3 to 5.
- (3) Change the breather tube on the R.H bank.
- (4) Change the adjusting method for the auto tensioner adjust bolt.

The Operation and Maintenance Manual should be revised as follows.  
(Prints in bold letters are the corrections.)

#### Adjustment

1. Install adjustment bolt 1 and locknut 2 to yoke 3.

#### 2. When replacing belt with new belt

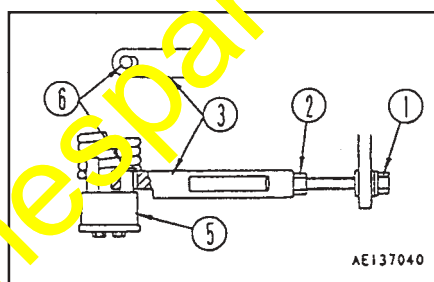
Tighten adjustment bolt 1 until the clearance is 0 mm (0 in) between the end of the oblong hole of yoke 3 and pin 6 of tension pulley 5, then tighten further three turns. Tighten locknut 2 to hold in position.

3. Run for one hour, then check the clearance between the end of the oblong hole of yoke 3 and pin 6 of tension pulley 5.

If there is any clearance,

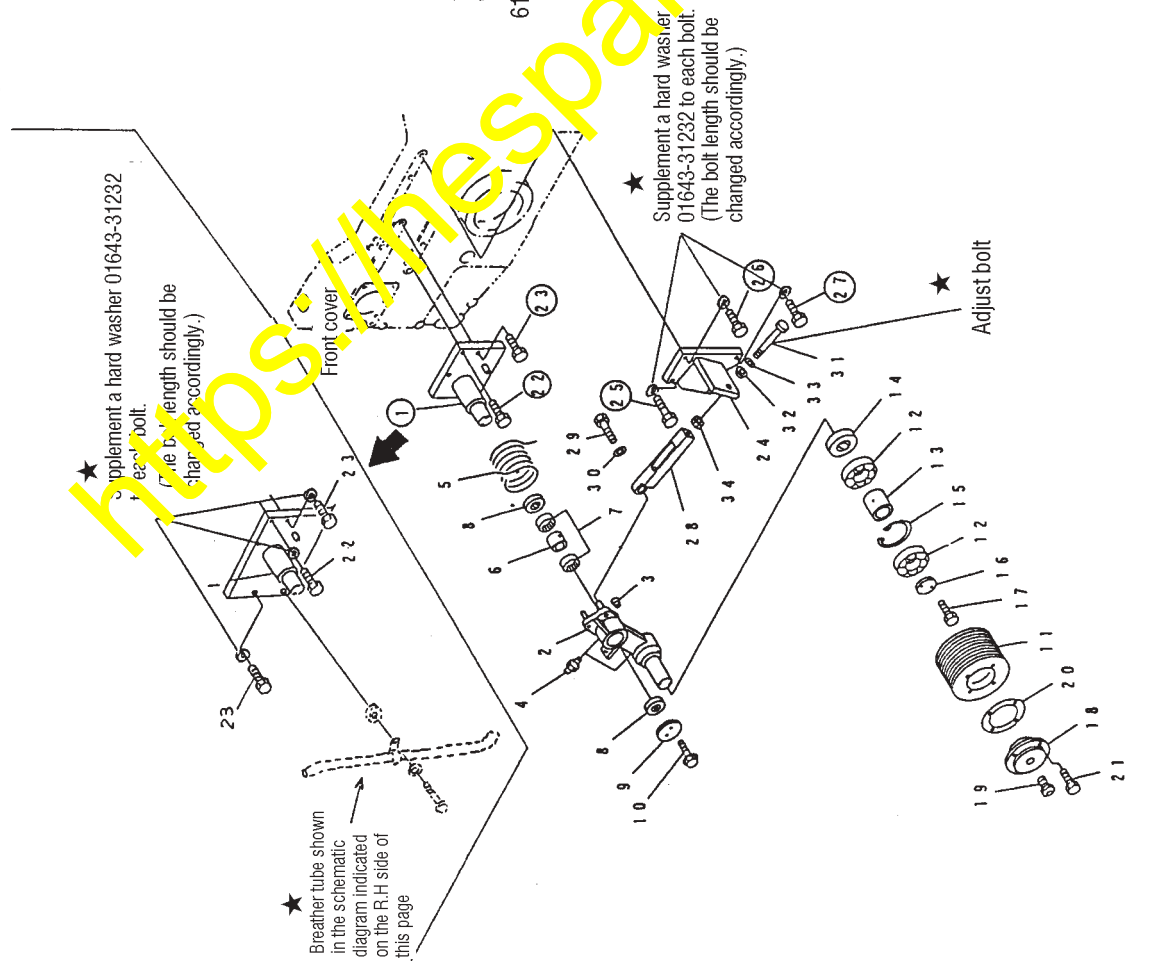
**Tighten adjustment bolt 1 until the clearance becomes 0 mm (0 in) before tightening further by 1.5 turn.**

If the fan belt makes any abnormal noise, adjust in the same way.



Change the circled parts

Tightening torque ranges for the bolts  
 M10 bolts: 6 - 7.5 kgm (59 - 74 Nm)  
 M12 bolts: 10 - 12.5 kgm (98 - 123 Nm)



Modification in the neighborhood of the tensioner

Modification in the neighborhood of the breather

## Check table for the serial numbers of the applicable vehicles and engines

No.	Applicable vehicle and engine models	Serial numbers of the applicable engines		Starting from	Serial numbers of the applicable chassis	
		Already shipped engines	Factory shipment new engines		Already shipped vehicles	Factory shipment new vehicles
1	HD785-3	- #11796	From the next production		- #2574	From the next production
2	HD785-5	- #12841	#12842 -	3/6	- #4218	#4219 -
3	HD985-3	- #11777	—		- #1020	—
4	HD985-5	- #12780	From the next production		- #1053	#1054 -
5	WA800-2	- #11798	From the next production		- #10737	From the next production
6	WA800-3	- #12760	From the next production		- #50021	#50022 -
7	WA900-1	- #11102	From the next production		- #10703	From the next production
8	WA900-3	- #12795	From the next production		- #50017	#50018 -
9	WD900-3	- #12446	From the next production		- #50005	#50006 -
10	J12V140-WJK-1	- #12646	From the next production			
11	EG750A-L-1	- #11041	From the next production			
12	SA12V140-C2-1	- #11739	From the next production			
13	SA12V140-GH-1	- #12821	#11850 -	3/13		
14	SA12V140-G3-1	- #11256	From the next production			
15	SA12V140-W1-1	- #12773	From the next production			