PARTS & SERVICE

REF NO.	AT02073	
DATE	Jul. 11, 2002	
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SUBJECT: REPAIR PROCEDURE OF ALTERNATOR MOUNTING BOLT ON

WA1200-3

PURPOSE: To introduce modification procedure to prevent breakage of the mounting

bolt for the alternator on WA1200-3 wheel loaders

APPLICATION: WA1200-3 Wheel Loaders, Serial Nos. 50001 thru 50012

FAILURE CODE: AB09FM

DESCRIPTION:

1. Introduction

The lower side mounting bolt for the alternator on the WA1200-3 wheel loaders may become loose owing to insufficient engaging length to result in weekage by vibrations occurring while the machine is in operation. To prevent occurrence of the aforementioned failure make the modification being introduced in this Ser ice News.

2. List of parts

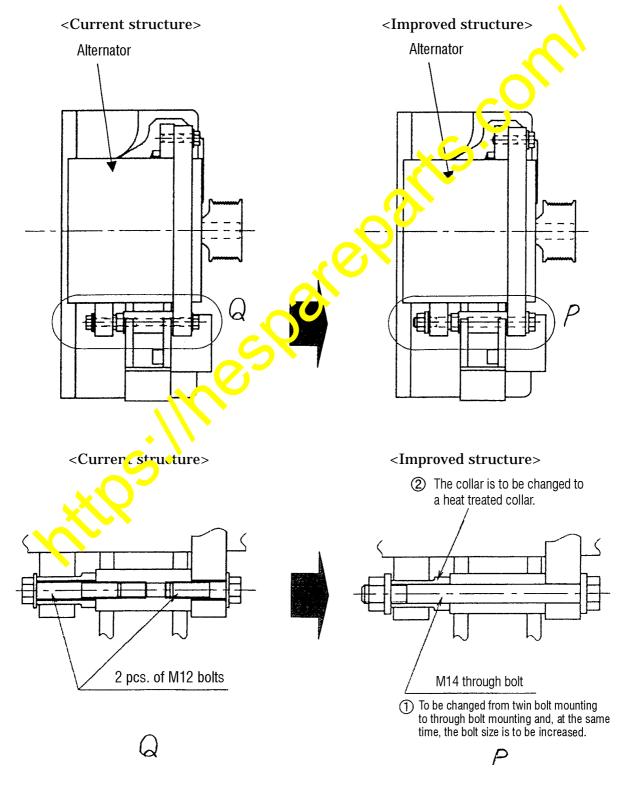
(Modification to prevent breakage of the Louncing bolt for the alternator)

Part No.	Part Name	I w pose of pa	art Q'ty	Remarks
01010-81250	Bolt	Replacement	1	
01643-31232	Washer		1	
01011-81460	301,		. 1	
01643-31445 🔷	Washer		nt 2	
01580-014.1	Nut		1	
42C-21-131.0	Collar		1	Collar for the alternator

3. Details of the modification

The following modifications are to be made to reinforce the structure.

- ① The lower side mounting method for the alternator is to be changed from twin bolt mounting to through bolt mounting. Simultaneously, the bolt size is to be increased. (The bolt size is to be increased from $M12 \rightarrow M14$.)
- ② The collar being used for the mounting section of the alternator is to be changed to a heat treated collar.

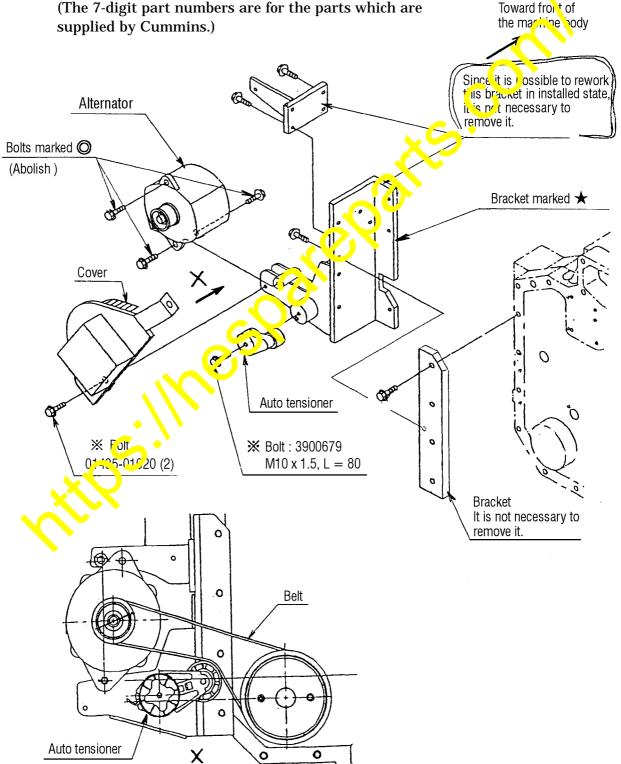


4. Modification procedure

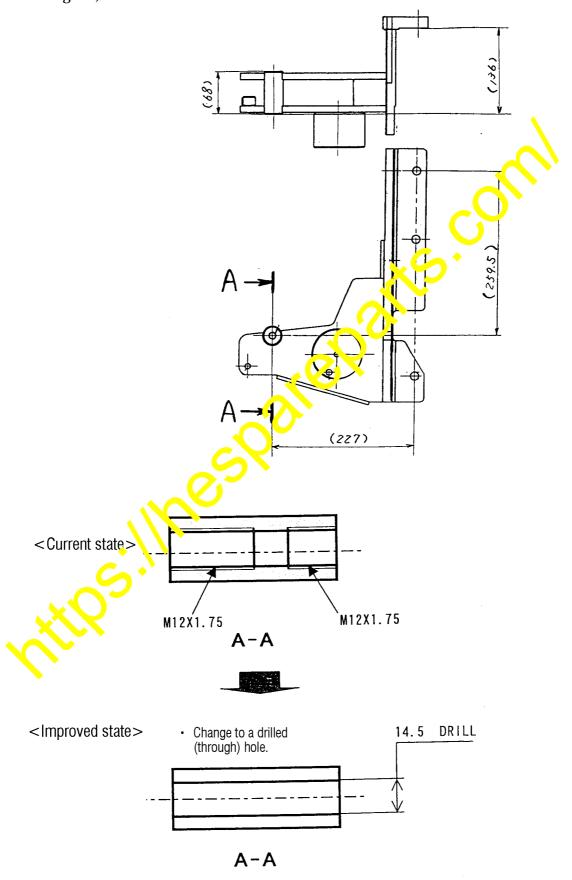
- (1) Removing the alternator (The bracket marked ★ is to be reworked.)
 - Remove the alternator being shown in the drawing below. (It is not necessary to remove the brackets (3 brackets).)

(Note)

- The alternator bracket (marked ★) is to be reworked. (Refer to page 4.)
- Other parts than what are marked \odot are being reused and store them carefully after removal.
- The part numbers for the parts marked ** in the drawing are being shown in case it becomes necessary to order them newly because of their lost after removal.



- (2) Reworking of the alternator fastening bracket
 - As shown below, change the tapped hole in the bracket to a through hole. (Make this reworking using a hand-drill while the bracket is in installed state to the engine.)



(3) Installation of the alternator

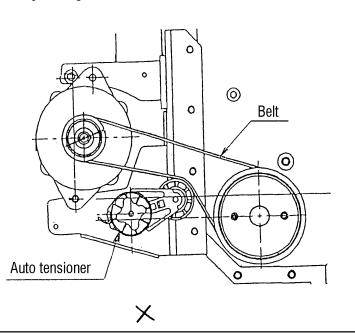
- Install the alternator as per the instructions given in the drawing below.
- Regarding the tightening torque, refer to the table shown below.

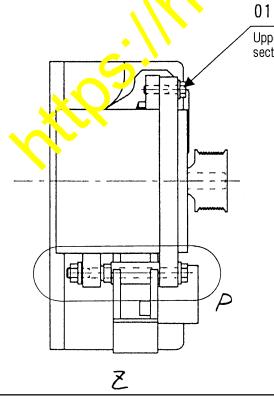
Bolt tightening torque (when using a torque wrench)				
	Nm	kgm		
M10	59 – 74	6.0 - 7.5		
M12	98 – 123	10.0 – 12.5		
M14	157 – 196	16.0 - 20.0		

①Replace the collar being installed to the alternator body with a new one. COLLAR

42C-01-13110

Since the auto tensioner is being used, it is not necessary to adjust the belt tension.





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2 Install the alternator

- Make sure that the fastening section for the alternator now consists of improved parts.
- Reuse the parts marked * in the drawing when installing the alternator. (The 7-digit part numbers are for the parts which are being supplied by Cummins.)

