2 places, 🛕

COMPONENT CODE 54

INSTALLATION MANUAL

REF NO.	BT00048A
DATE	Jun. 21, 2002
(C)	Page 1 of 14

This INSTALLATION MANUAL supersedes the previous issue No. BT00048 dated Nov. 7, 2000 which should be discarded.

SUBJECT: INTRODUCTION OF SMALL UNIT GUARD ON HD325-6/405-6

- **PURPOSE:** To introduce newly prepared optional guards to cover small engine components on HD325-6 and HD405-6 dump trucks and their installation procedures
- APPLICATION: HD325-6 Dump Trucks, Serial Nos. 5485 and up thru 5959 HD405-6 Dump Trucks, Serial Nos. 1001 and up thru 1139

FAILURE CODE: 54P0B1

DESCRIPTION:

1-1. Introduction

This Installation Manual will introduce newly prepared small unit guards, and their installation procedures, which are for use on the HD325-6 and HD405-6 dump trucks and serve to keep workers, servicing or inspecting the engine while it is running, away from the zone around the moving pulleys. V becks, etc. in which they could get caught, of the engine and of the auxiliary components.

Meanwhile, these guards are in conformity with the MSHA regulations.

1-2. Revised places:

29 places 🛕	Jun. 21, 200. Changes or other modifications to the shape of the air conditioner cover and the right fan cover	n-
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2. List of parts

No.	Part No.	Part Name	Q'ty	Remarks
A ₁	566-03-6D450 -566-03-6D411 (566-03-41481)	Net (Net)	1 (1)	
2	566-03-6D421 (566-03-41491)	Net (Net)	1 (1)	
\mathbb{A}_{3}	566-03-6D460 566-03-6D430	Cover	1	
▲ 4	566-03-6D470 566-03-6D440	Cover	1	
\mathbb{A}_{5}	566-07-6A740 566-07-6A710	Cover	1	
6	566-07-6A720 (566-07-6A122)	Bracket (Bracket)	1 (1)	
7	566-07-6A730 (566-07-6A132)	Bracket (Bracket)	1 (1)	
8	01010-81020	Bolt	1	<u>O</u>
9	01010-81025	Bolt	A-1	8
10	01580-11008	Nut	2	
11	01643-31032	Washer	[▲] = 20 = 1	9
<u>ه</u> 12	6218-81-6150 6210-81-6150 (6210-82-6450)	Cover (Cover)	1 (1)	
اللہ میں ا	6218-81-6250 -6210-81-6250 (6210-81-6361)	Cover (Cover)	1 (1)	
14	01050-51920	Bolt	2	
15	01640-21015	Washer	2	
À 16	9213-81-6570 (6110-62-6570)	Bracket (Bracket)	1 (1)	
<u> </u> 17	01435-01020	Bolt	1	
A 18	01643-31032	Washer	1	

3. Contents of the modification

- As the small unit guards, supplement the following covers (3 covers).
- (1) Fan belt cover This is a guard to cover the fan pulley, crank pulley, tension pulley and fan belt and it is to be bolted down onto the fan guard.
- (2) Air conditioner compressor cover This is a guard to cover the pulley and drive belt for the air compressor of the air conditioning system and it is to be bolted down onto the air compressor mounting bracket.
- (3) Alternator cover

This is a guard to cover the pulley and drive belt for the alternator and it is to be bolted down onto the alternator mounting cover.

4. Installation procedures

The code numbers given after part names being used in descriptive sentences and code numbers given in drawings correspond to the item numbers given in the list of necessary parts.

4-1 Preparations

Park the vehicle on a level surface, stop the engine, apply the parking brake and insert tire wedges underneath respective tires.

- 4-2 Installing the fan belt cover
 - (1) Replace the fan guard net halves 1 and 2 with the newly prepared fan guard net halves. (Refer to Fig. 1 and Fig. 4, Fig. 5.) 🖄

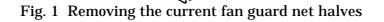
A 566-03-6D450 $(566-03-41481 \rightarrow 566-03-6D411 \text{ and } 566-03-6D421)$

A 566-03-6D460 $\underline{\mathbb{A}}$ 566-03-6D470 Install the cover 3 ($\frac{566-03-6D430}{566-03-6D430}$ ard over 4 ($\frac{566-03-6D440}{566-03-6D440}$) to the newly installed (2)A 566-C -61 450

fan guard net halves $\overline{1}$ (566-93 (27411) and 2 (566-03-6D421) using the bolts 9 and washers 11.

(3) Tighten the nuts 10 and y achers 11 to fasten the covers 3 and 4.

Reuse the existing bolts and washers for installing the fan guard.



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- **4-3** Installing the air conditioner compressor cover (Refer to Fig. 2 and Fig. 4.)
 - (1) Replace the air compressor mounting brackets 6 & 7 of the air conditioning system. (566-07-6A122 \rightarrow 566-07-6A720 and 566-07-6A132 \rightarrow 566-07-6A730)
 - (2) Install the cover 5 (566-07-6A710) to the newly installed air compressor mounting brackets 6 & 7 using the bolts 8 & 9 and washers 11.

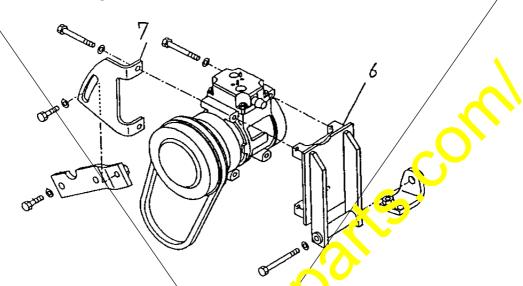
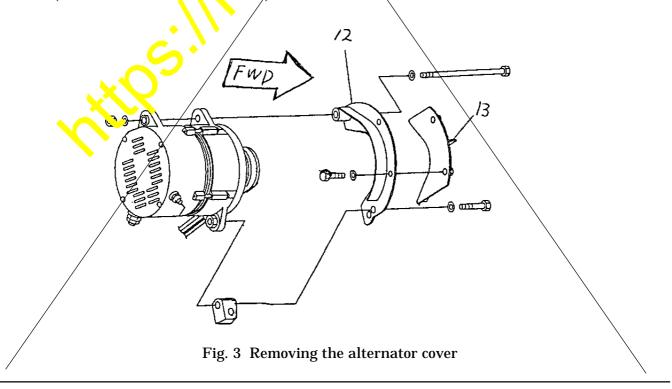


Fig. 2 Removing the current air complexitor mounting brackets

- 4-4 Installing the alternator cover (Refer to Lig. 3 and Fig. 5.)
 - (1) Replace the alternator cover 12. (6210-82-6450 \rightarrow 6210-81-6150
 - (2) Replace the alternator cover $\rightarrow 3$ and install the newly prepared alternator cover to the cover 12 using the bolts 14 and washers 15. (6210-81-6361 \rightarrow 6210-1-6250)



- 4-3 Installing the air conditioner compressor cover (Refer to Fig. 2 and Fig. 6.)
 - (1) Replace the air compressor mounting brackets 6 & 7 of the air conditioning system. (566-07-6A122 \rightarrow 566-07-6A720 and 566-07-6A132 \rightarrow 566-07-6A730)
 - (2) Install the cover 5 (566-07-6A740) to the newly installed air compressor mounting brackets 6 & 7 using the bolts 8 & 9 and washers 11.

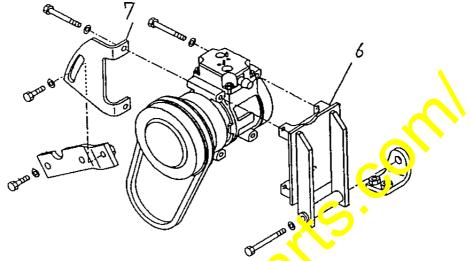
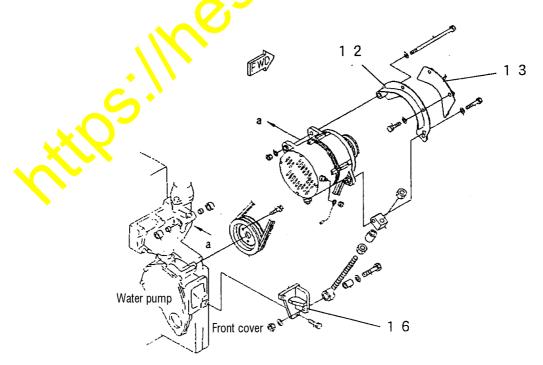
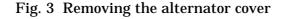
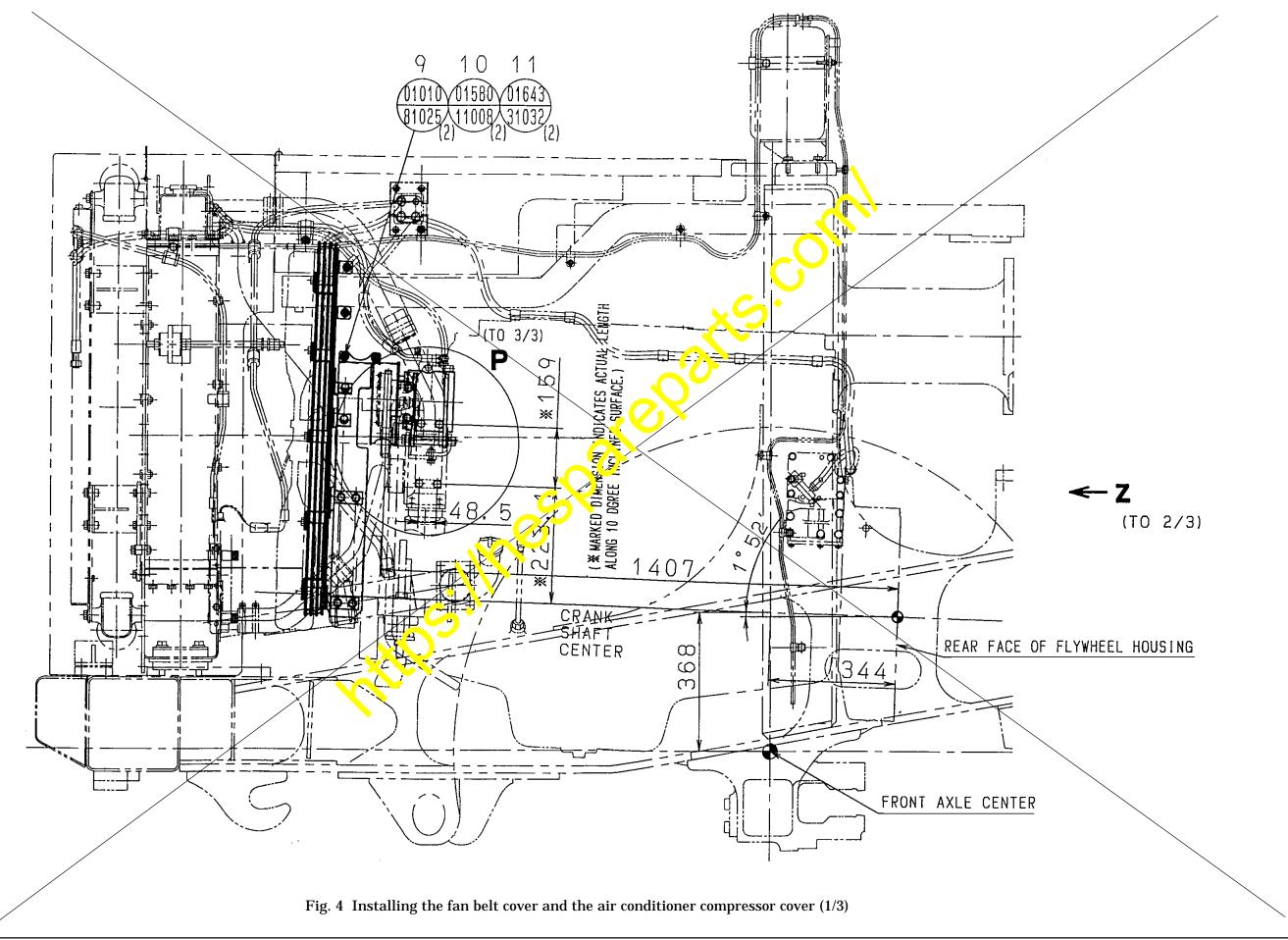


Fig. 2 Removing the current air compression mounting brackets

- 4-4 Installing the alternator cover (Refer to Fig. 3 and Fig. 7.)
 - (1) Replace the alternator cover 12. $(6210-82-6450 \rightarrow 6218-81-6150)$
 - (2) Replace the adjusting rod bracket (6) (2) (2) (0-82-6570 \rightarrow 6218-81-6570)
 - (3) Replace the alternator cover 13 and "stall the newly prepared alternator cover to the cover 12 and the bracket 16 using the bolts 14, washers 15, bolts 17 and washers 18.
 (6210-81-6361 → 6218-81-6.50)







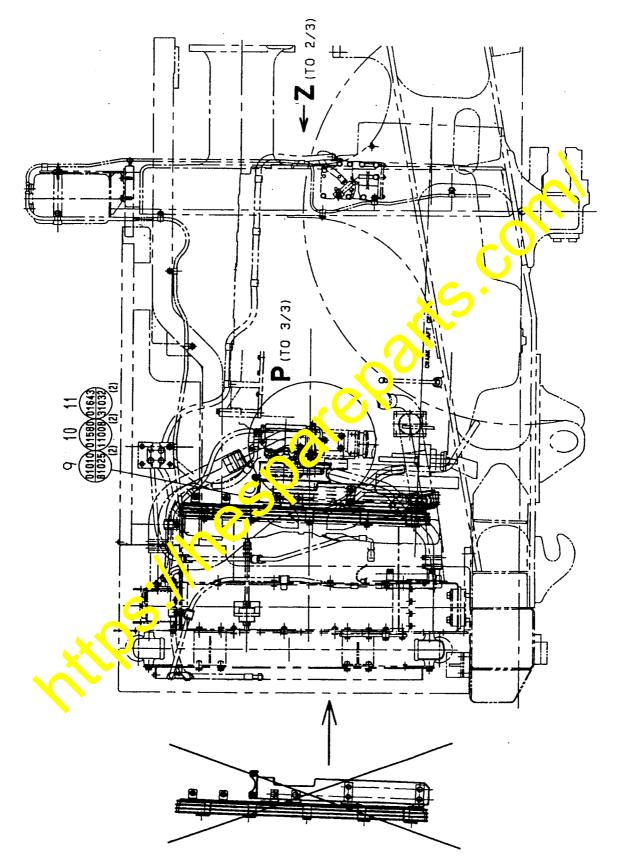
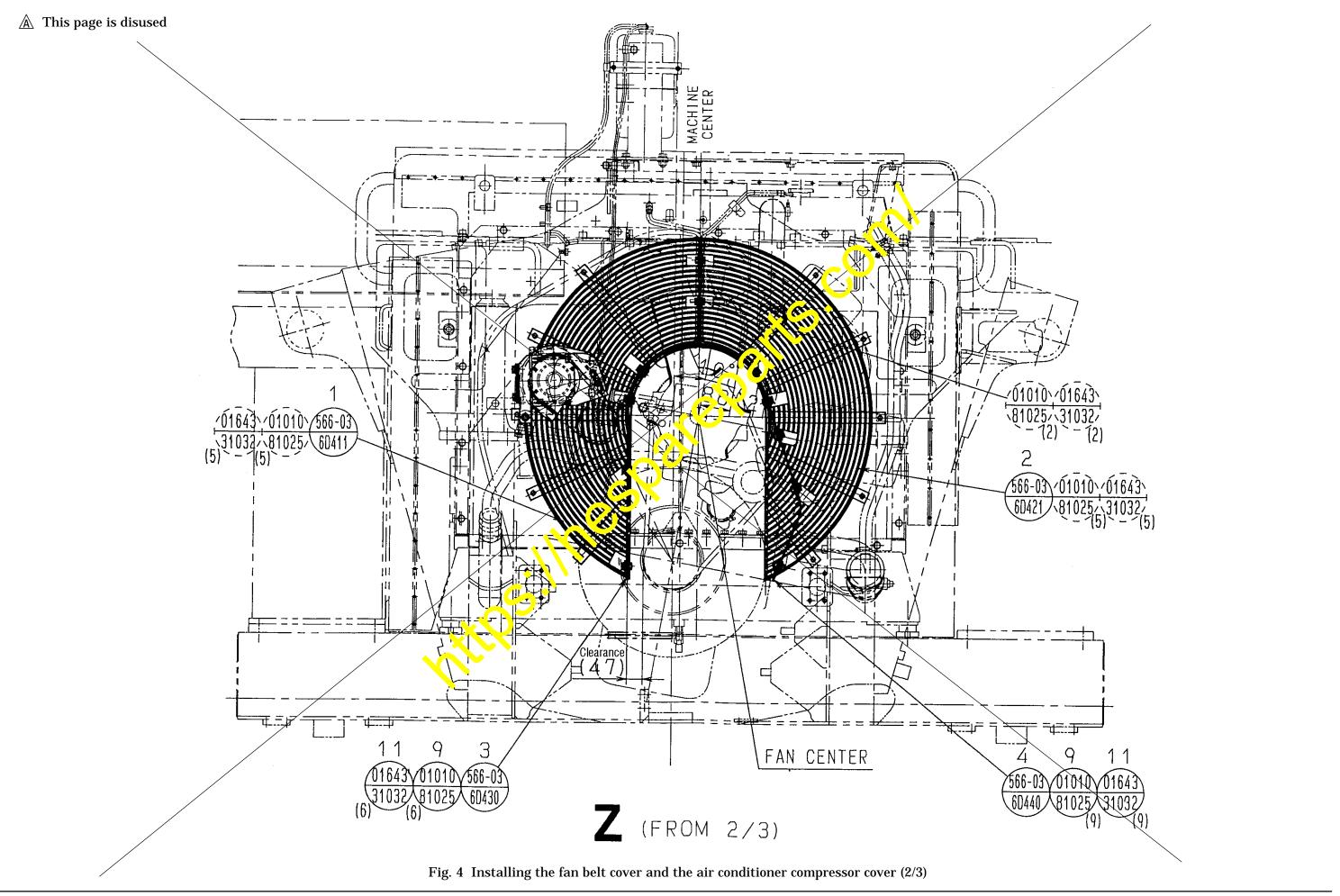


Fig. 4 Installing the fan belt cover and the air conditioner compressor cover (1/3)



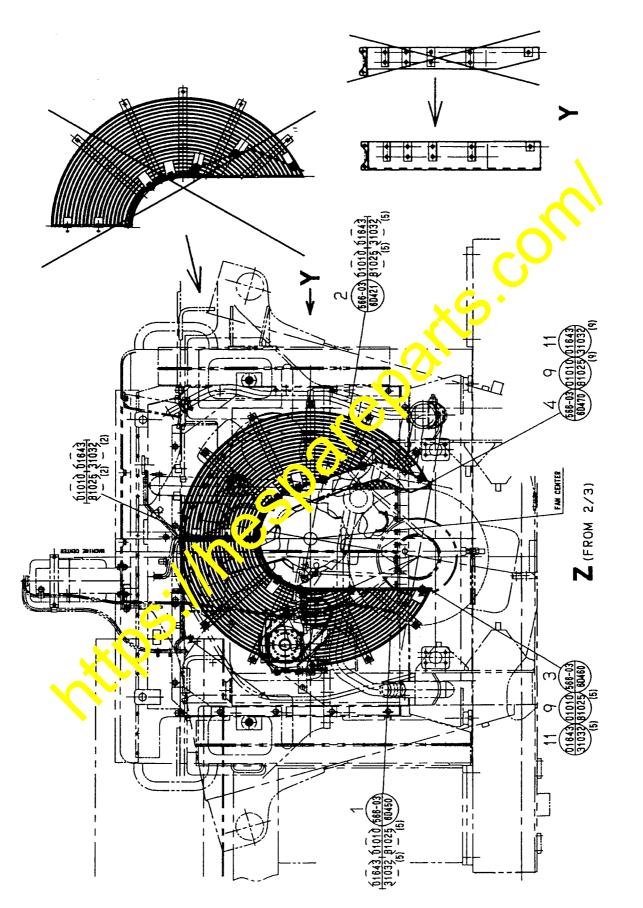
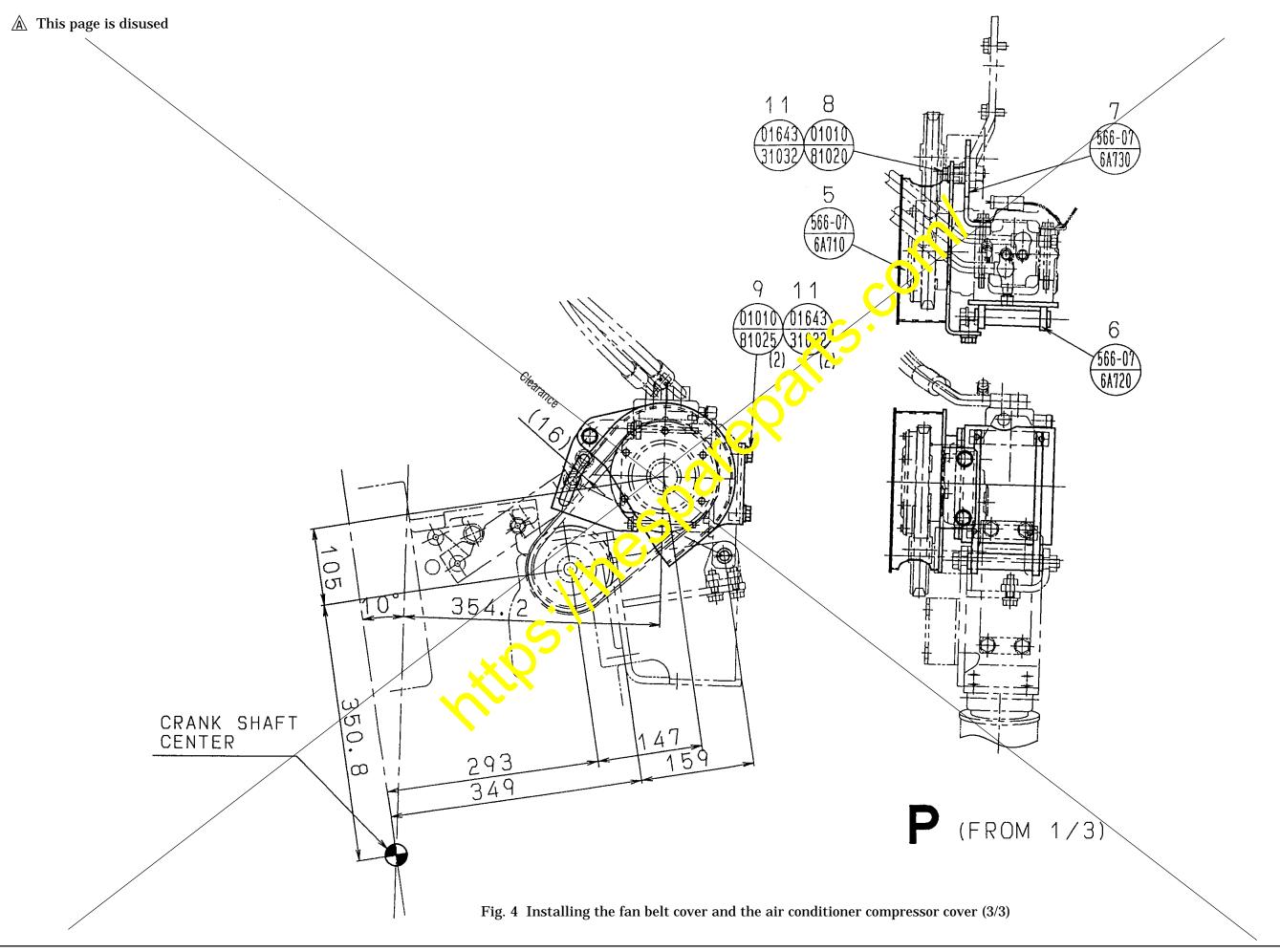
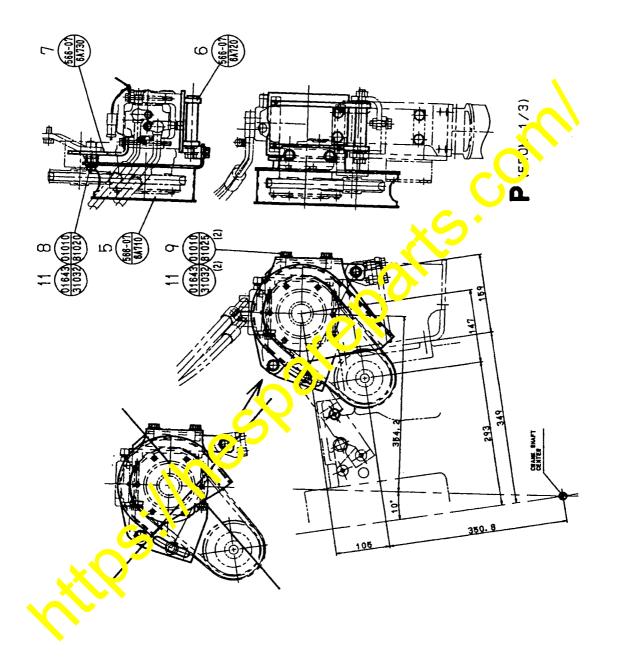
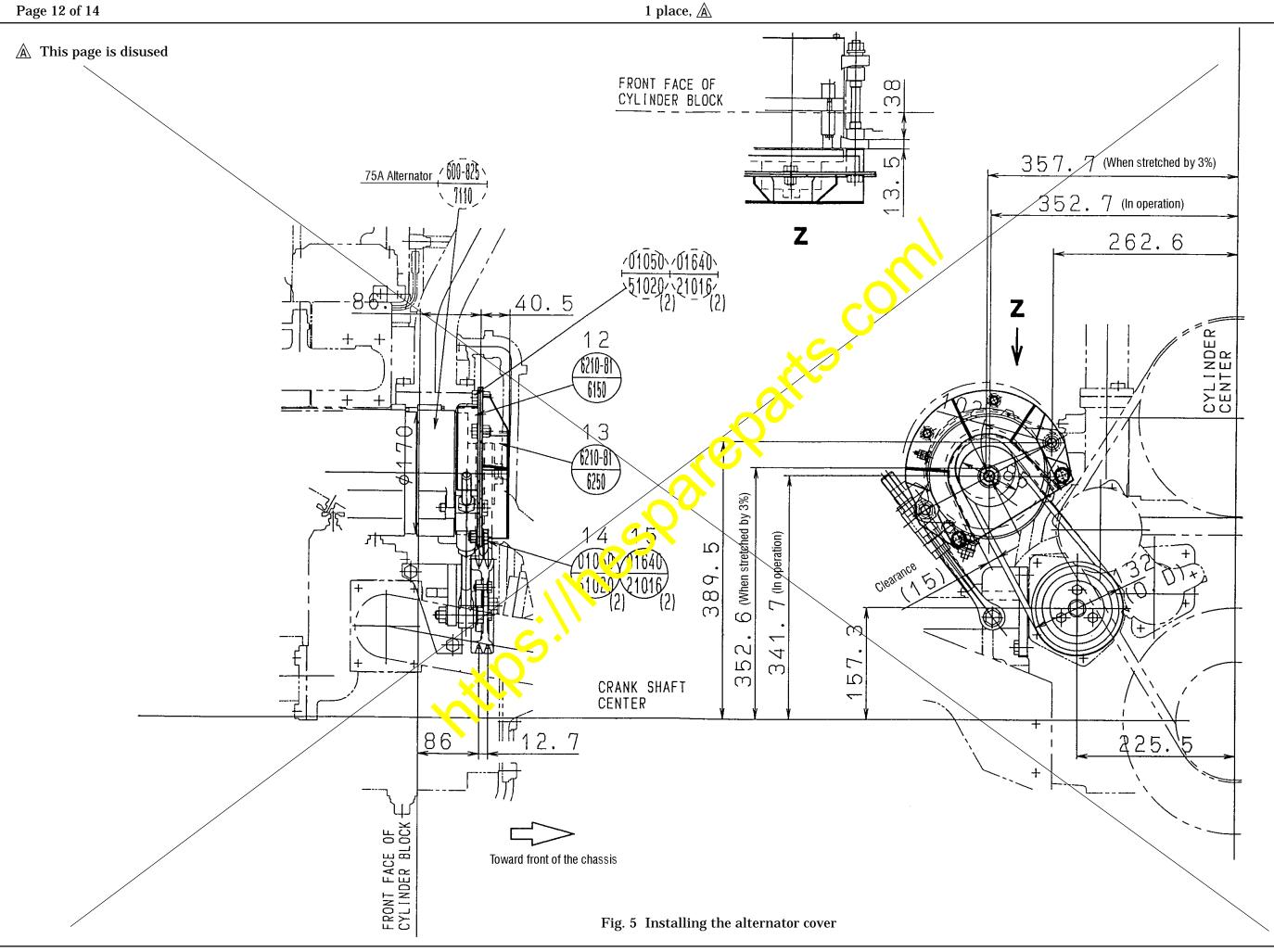
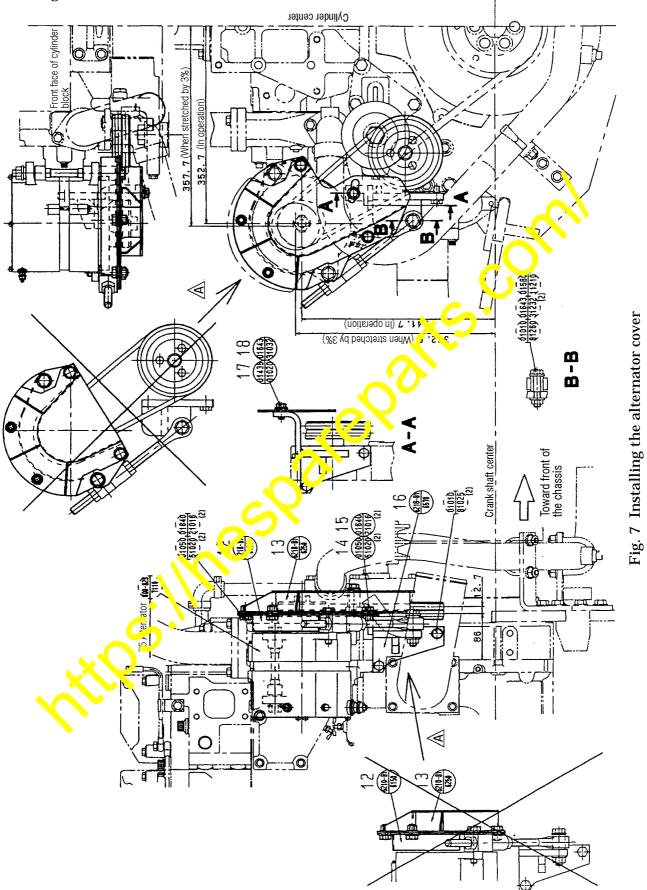


Fig. 5 Installing the fan belt cover and the air conditioner compressor cover (2/3)







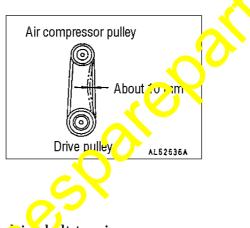


5. Inspections

After finishing installation of all these guards, conduct the following inspections and adjustments.

For more details, refer to the Operation and Maintenance Manual.

- 5-1 Inspecting the fan belt
 - · Check and make sure that the V-belt is not interfering with the cover 3 and cover 4.
 - Since the fan belt is equipped with the auto tensioner, it is not necessary to adjust the fan belt until the belt is replaced. However, after finishing this installation work, conduct inspection of the belt tension referring to the Operation and Maintenance Manual.
- 5-2 Inspecting the air compressor belt tension
 - \cdot Check and make sure that the air compressor belt is not interfering with the over 5.
 - Depress the center point between the air compressor pulley and the (rive pulley of the air compressor belt by the ball of the thumb (at a force of about 5%.8 N {3 kgf}) and see if a flexure of about 10 mm occurs with the air compressor belt.



- 5-3 Inspecting the alternator mixed tension
 - \cdot Check and make sure that the alternator belt is not interfering with the cover 13.
 - Depress the center point between the drive pulley and the alternator pulley on the alternator drive belt by the ball of the thumb (at a force of 98.1 N {about 10 kgf}) and see if a flexur (2.3)3 to 16 mm occurs with the alternator drive belt.

