

PARTS & SERVICE NEWS

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SUBJECT: ENGINE UNDERGUARD INSTALLATION ON HD325-6, HD405-6

PURPOSE: To introduce modification procedures to improve the method of installing the engine underguard thereby to eliminate chattering.

APPLICATION: HD325-6 Dump Trucks, Serial Nos. 5001 thru 5878
HD405-6 Dump Trucks, Serial Nos. 1001 thru 1137

FAILURE CODE: 548188

DESCRIPTION:

1. Introduction

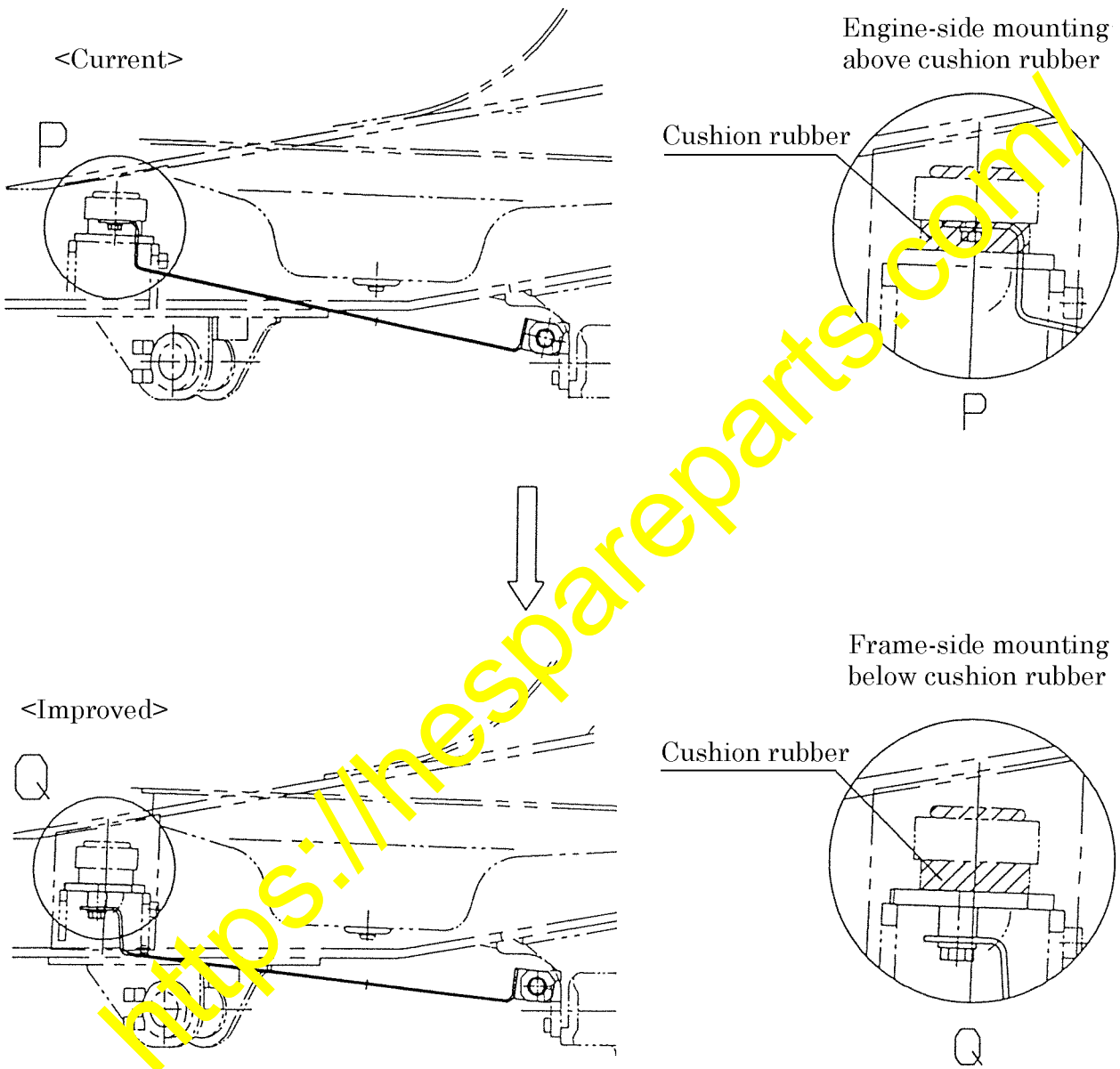
There are cases with the HD325/HD405-6 dump trucks, where chattering (abnormal noise) originates from the hinge section of the engine underguard when the engine is in operation, and this Parts & Service News will introduce the modification to eliminate such noise. Follow the procedures outlined therein for the modification.

2. List of part

Part No.	Part Name	Q'ty	Remarks
566-46-6A690	Plate	2	
566-99-6C240	Plate	4	
561-54-66250	Collar	2	
01010-82080	Bolt	2	
01643-32060	Washer	4	
01580-12016	Nut	2	
566-99-6C250	Plate	2	
01571-02032	Seat	2	
01010-82040	Bolt	2	
01643-32060	Washer	2	

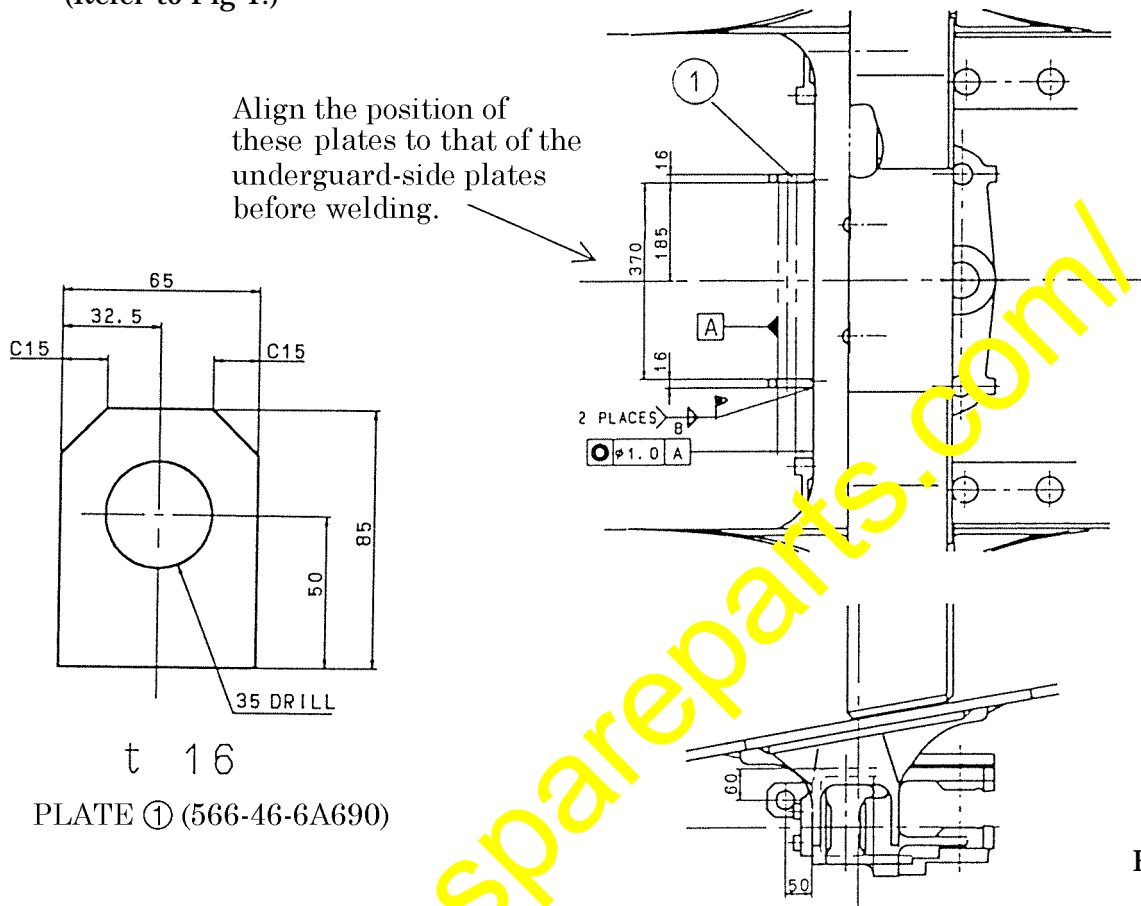
3. Contents of the improvement

Since the engine underguard is vibrated by engine vibration and makes chattering (abnormal noise) if its front section mounts on the engine mounting rubber (cushion rubber), the mounting position of the underguard front section is to be changed to a frame side position below the mounting rubber, as shown in the diagram below.

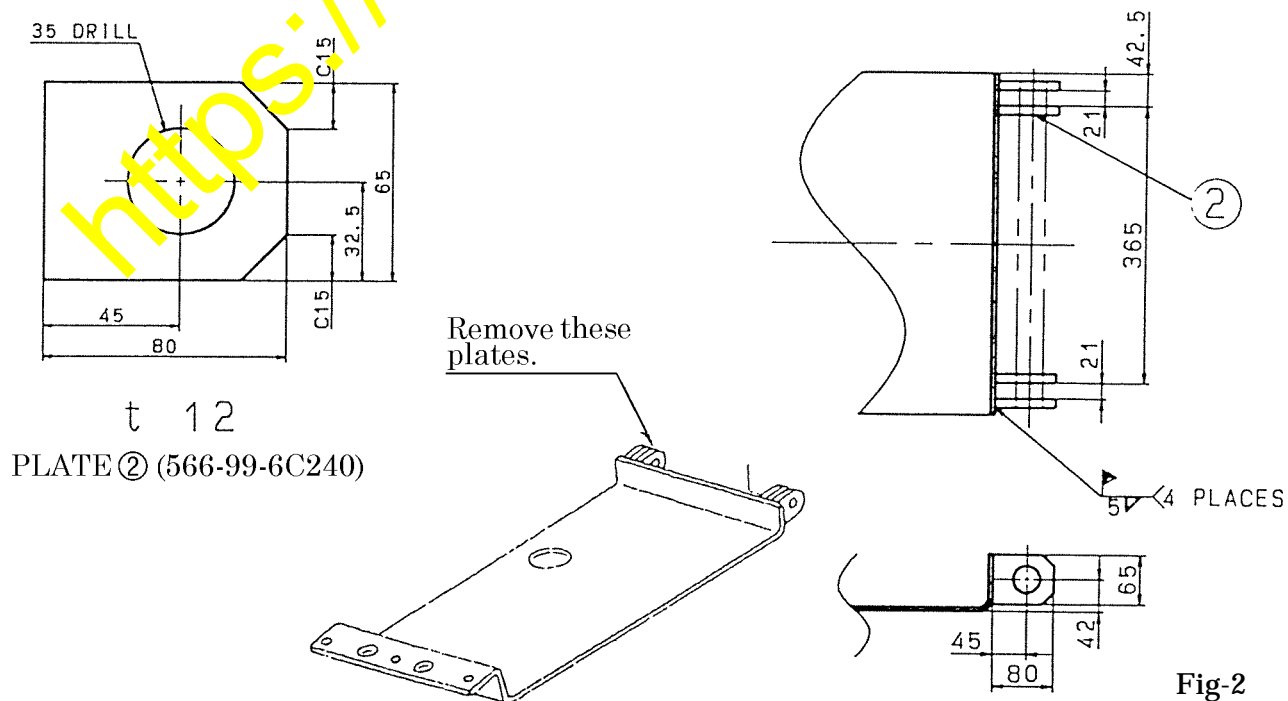


4. Modification procedure

- (1) Remove the engine underguard.
- (2) Remove the plates welded on the frame, then weld plates ① (566-46-6A690).
(Refer to Fig-1.)



- (3) Remove the plates (4 pieces) on the underguard, weld plates ② (566-99-6C240).
(Refer to Fig-2.)



- (4) Spread the bend of the front section of the underguard. (Refer to Fig-3.)

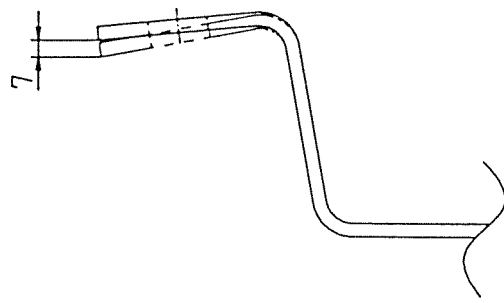


Fig-3

- (5) Enlarge the bore of the holes at both ends of the underguard front section. (Refer to Fig-4.)

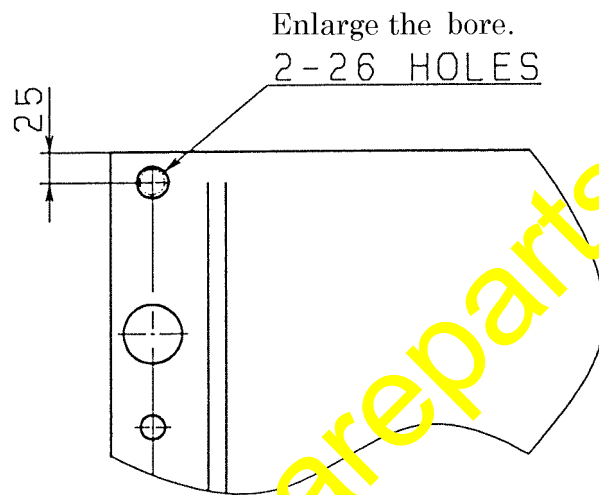


Fig-4

- (6) Install the rear side of the underguard to the frame using collar ③ (561-54-66250), bolt ④ (01010-82080), washer ⑤ (01643-32060) and nut ⑥ (01580-12016). (Refer to Fig-5.)

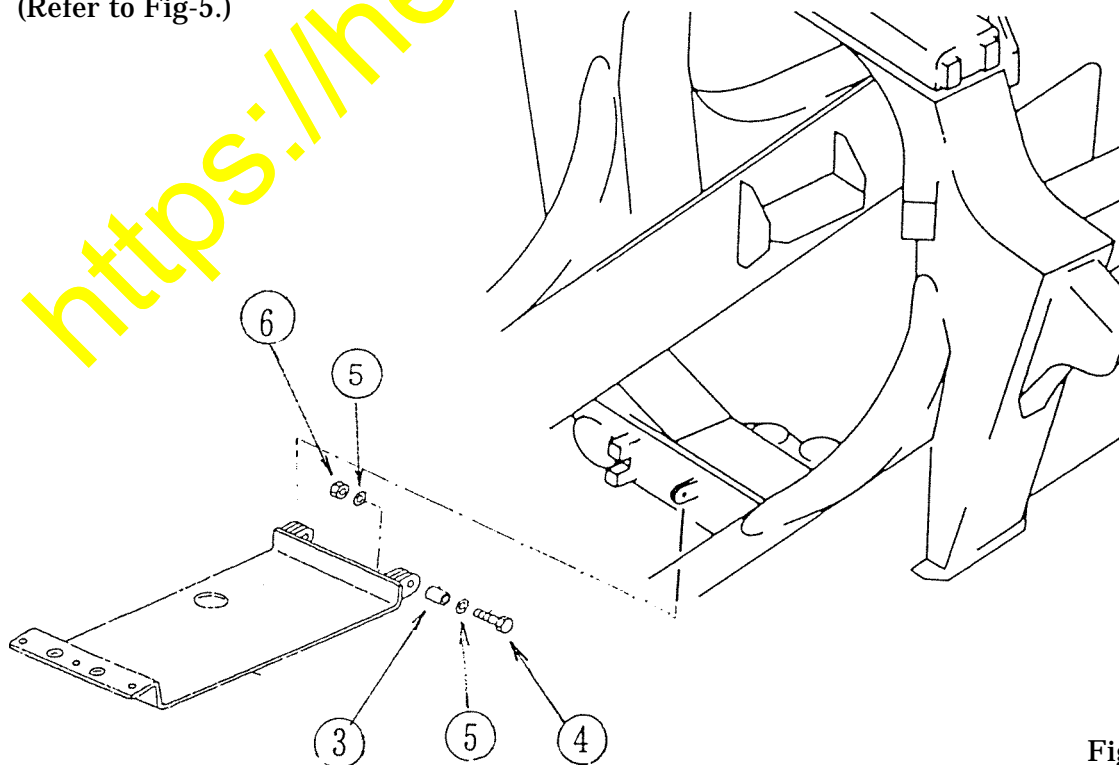


Fig-5

(7) Weld plates ⑦ (566-99-6C250) on engine mounting brackets. (Refer to Fig-6.)

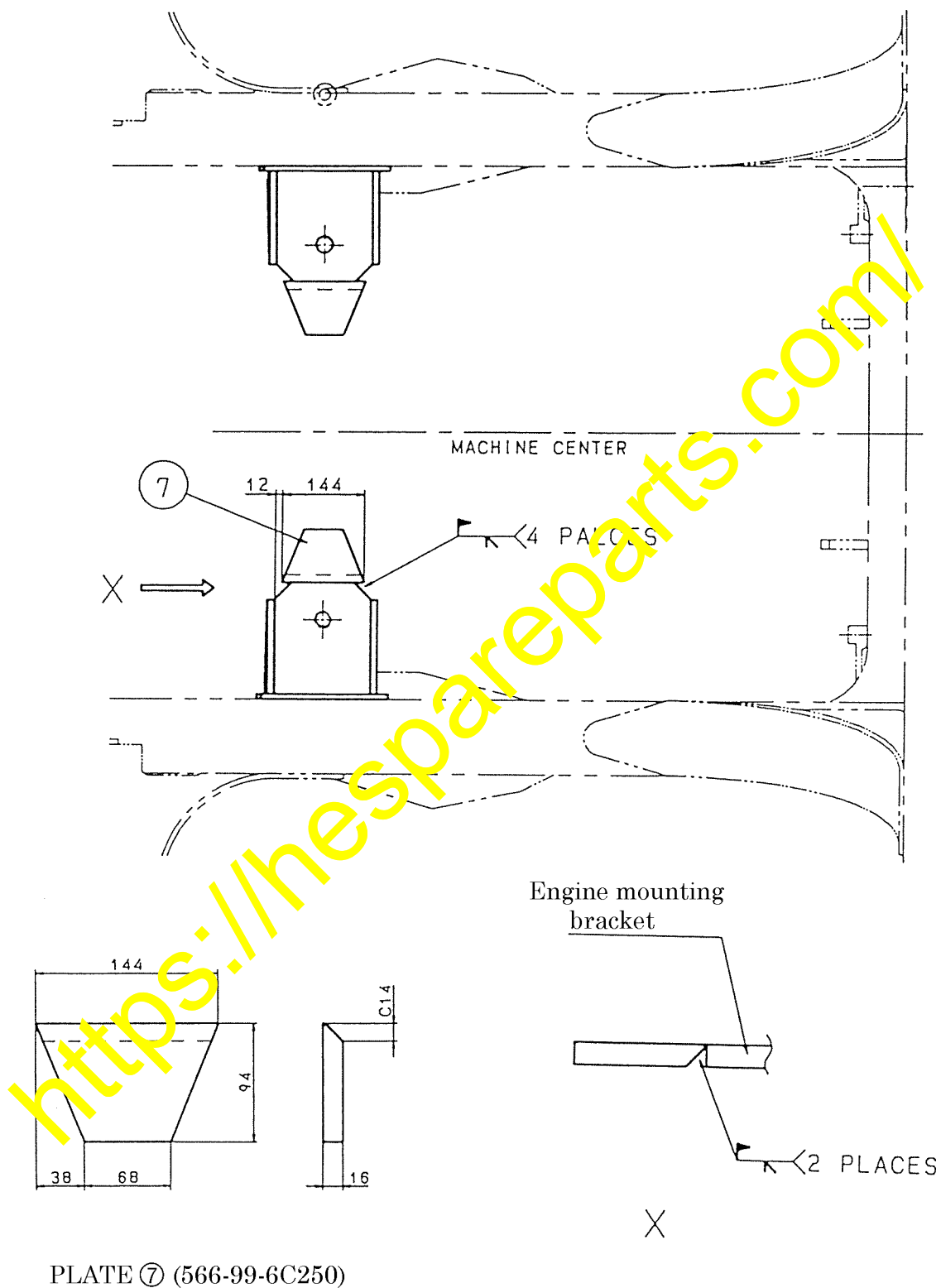
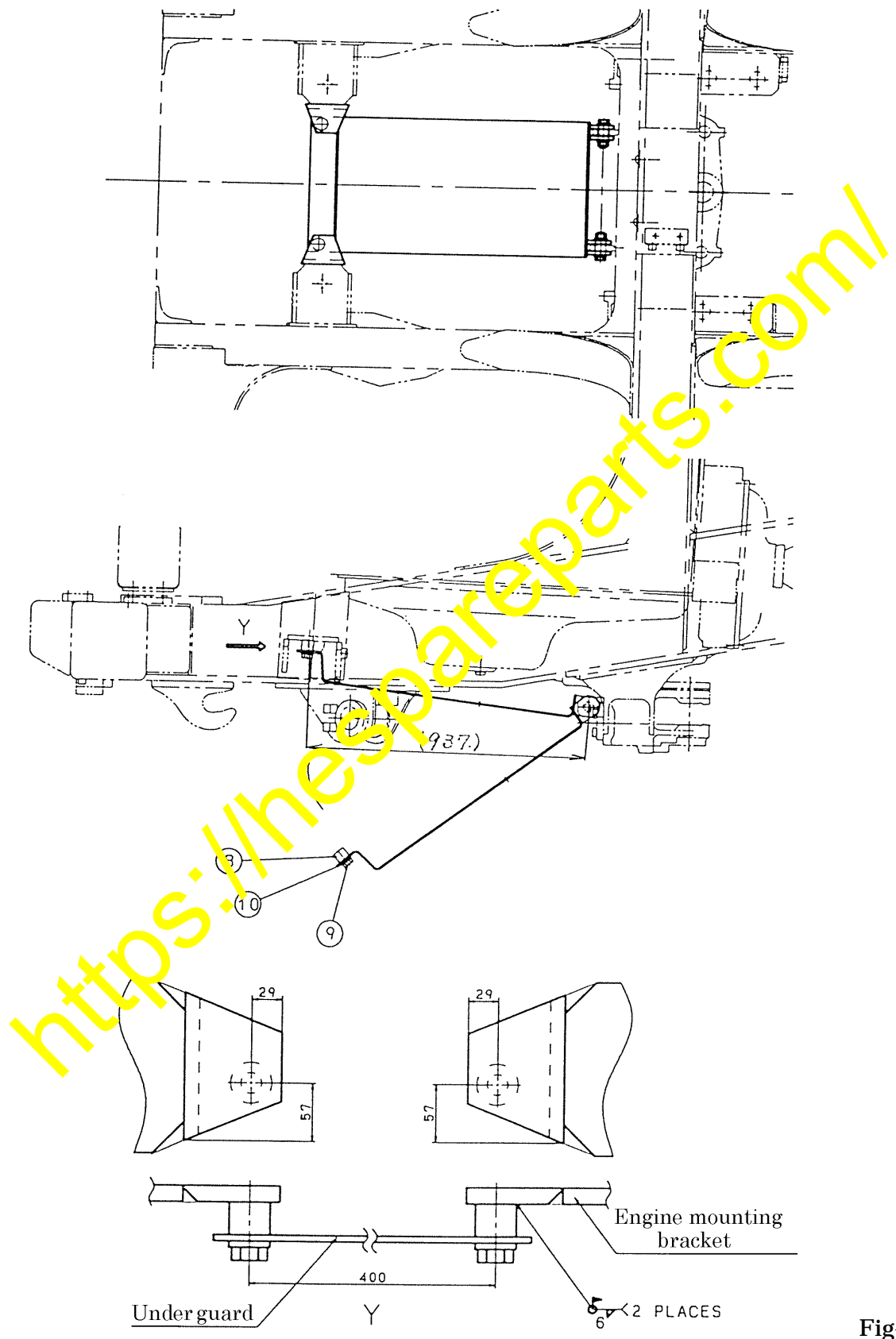


PLATE ⑦ (566-99-6C250)

Fig-6

- (8) Temporarily, assemble seats ⑧ (01571-02032) to the enlarged holes of underguard using bolts ⑨ (01010-82040) and washers ⑩ (01643-32060), lift the underguard then weld seats ⑧ to plates ⑦ (566-99-6C250). (Refer to Fig-7.)



- (9) Make final assembling by tightening the bolts ⑨ (01010-82040).