# PARTS & SERVICE NEWS

REF NO.	AT97067A		
DATE	April 19, 2004		

(C)

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This Parts & Service News supercedes AT97067 dated May 1, 1997 and should be discarded

**SUBJECT:** CRACK PLATFORM

**PURPOSE:** To introduce repair procedures for cracks occurring in the joints between the

platform and the ladder rail

**APPLICATION:** WA500-3 Wheel Loaders, S/N 50001 thru 50091

WA500-3A Wheel Loaders, S/N 50001 thru 50091 WA500-3L Wheel Loaders, S/N A70001 thru A70017

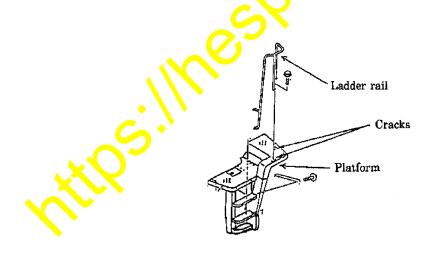
**FAILURE CODE:** 5450HA

**DESCRIPTION:** 

#### 1. Introduction:

Cracks may occur in the joints between the platform and the ladder rail while the vehicle is in use causing excessive vibration such as lapping out operations and bucket shaking operations.

When cracks are found in these sections, repair the cracks and reinforced the structure following the procedures introduced in this Parts & Service News.



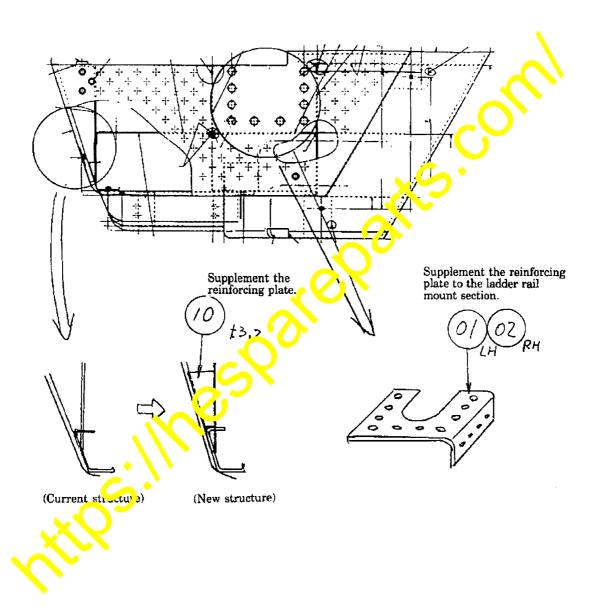
## 2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
425-54-24114 (425-54-24113) (425-54-24112)	Floor (L.H) (Floor (L.H)) (Floor (L.H))		1 (1) (1)	It is necessary to modify both LH and RH floor panels. (When the
425-54-24124 (425-54-24123) (425-54-24122)	Floor (R.H) (Floor (R.H)) (Floor (R.H))		1 (1) (1)	vehicle is equipped with the ROPS system.)
425-54-25112 (425-54-25111)	Handrail F (L.H) (Handrail F (L.H))	Reworks	1 (1)	
425-54-25122 (425-54-25121)	Handrail R (L.H) (Handrail R (L.H))		1 (1)	CO.
425-54-25132 (425-54-25131)	Handrail F (R.H) (Handrail F (R.H))		1 (1)	5.
425-54-25142 (425-54-25141)	Handrail R (R.H) (Handrail R (R.H))		1	
_	Plate - (01) Plate - (02)		1	Reinforcing parts (For the floor)
*******	Plate – (03)		14	Reinforcing parts (For the ladder rail)
-	Plate - (04)	NO.	1	
_	Plate - (05) Plate - (06)	Additional	1 1	
_	Plote 0'		1	Reinforcing parts (For the floor)
_	Plate - 08		1	
_	Plate – (09)		1	
	Plate – (10)	]	2	

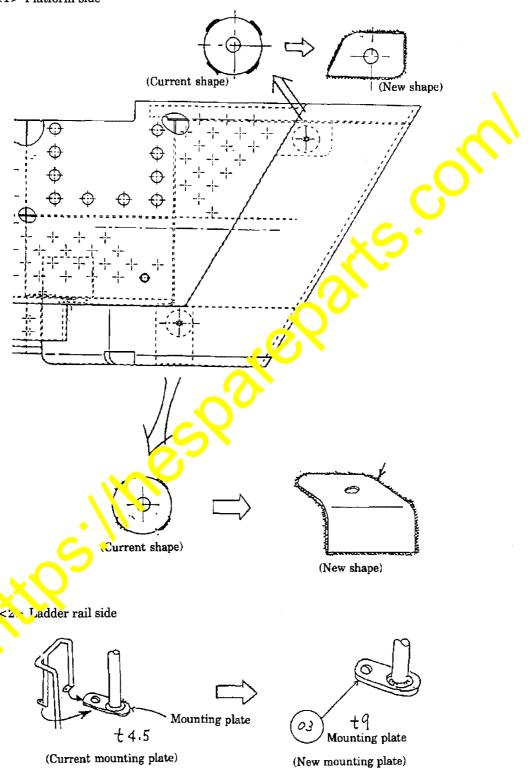
[Note] Fo. the floor panels 425-54-24113/24123, necessary parts for the modification are 01, 08, 09 and 10 only. Other parts are already installed.

### 3. Contents of the modification

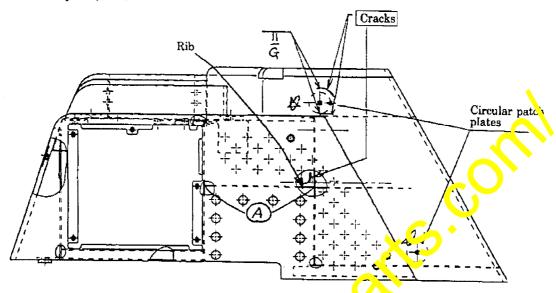
1 Supplement reinforcing plates at the front section and center support section of the platform to strengthen its structure.



2 As shown below, supplement the reinforcing plate to the ladder rail mounting section of the platform and replace the ladder rail mounting plates to strengthen the relevant structures. <1> Platform side



- 4. Modification procedures
  - Repairing the cracked sections of the floor panels (common for the floor panel, L.H and floor panel, R.H)



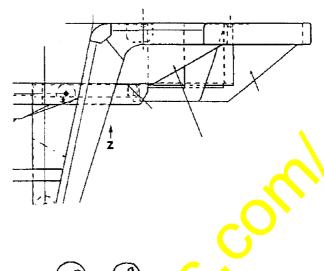
- ① Separate the ladder rails from the floor panel.
- ② Remove the circular patch plates (at 2 plates narred ★) welded to the rear face of the floor panel.
- (3) Repair the cracked sections by welding and finish the weld surfaces using a grinder.

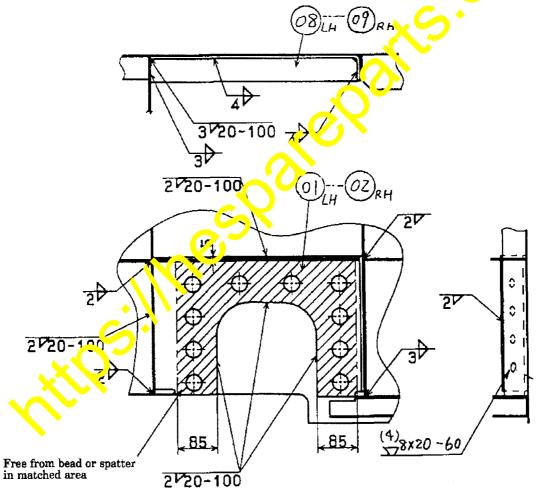
  Note) Pay extra attention to finish the mating surfaces with the bottom planes of the ladder rails to flat planes.
- 4 Remove the rib from the reco.

After completing repair of the toor panel (platform) and handrails, apply touch-up painting to the welded turfice. Paint should be "Cloud Gray".

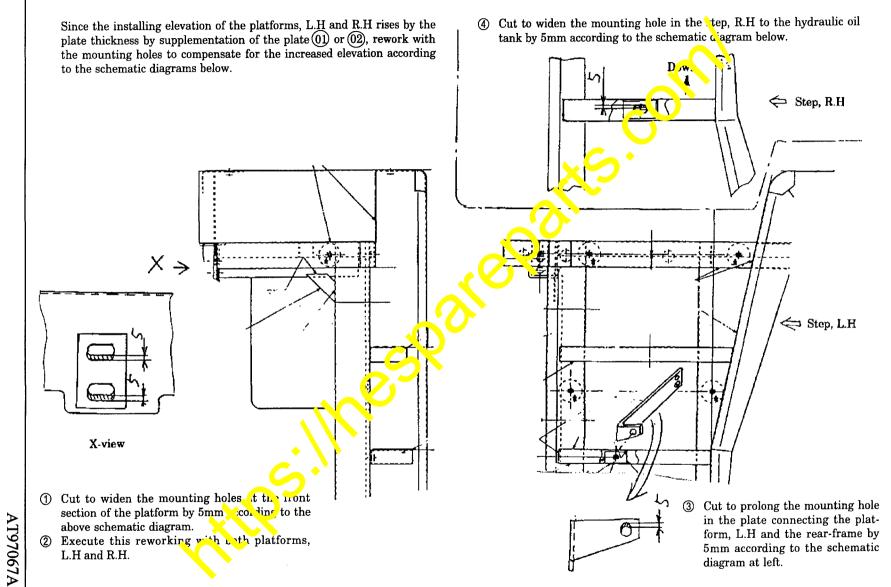
- (1) Reinforcing the ladder rail mount section of the platform (These drawings are for the platform, L.H.)
  - (1) Weld the plate (01) according to the designations given in the drawings below.
  - ② Weld the rib ①8 on the plate ①1 according to the designations given in the drawings below.

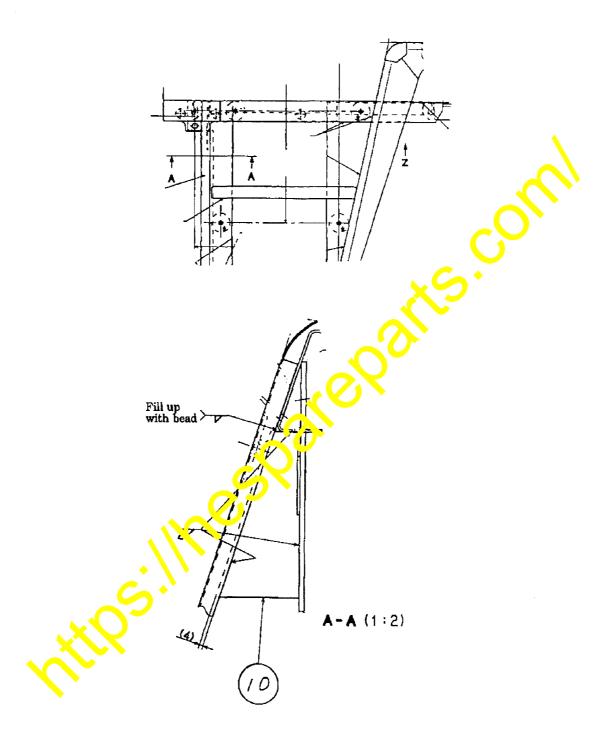
Weld the plate and rib similarly to the platform, RH also.





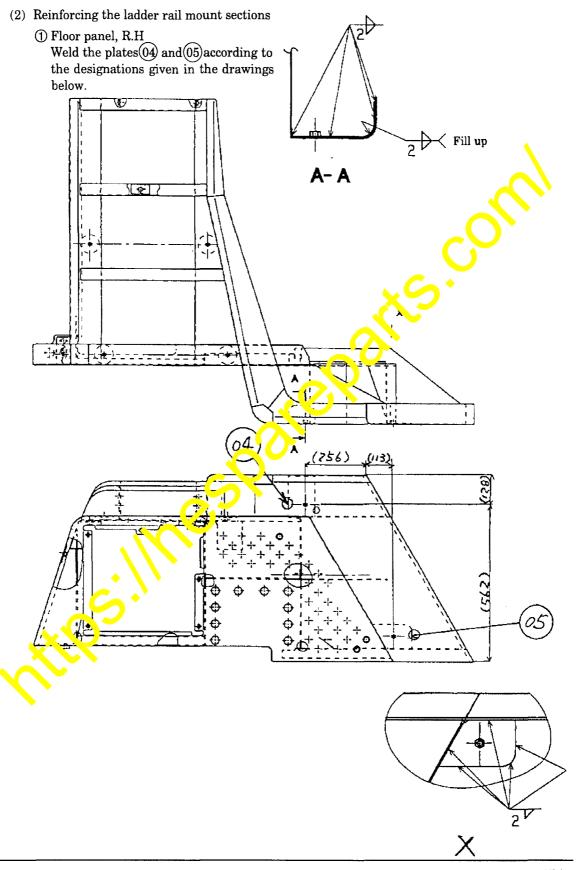




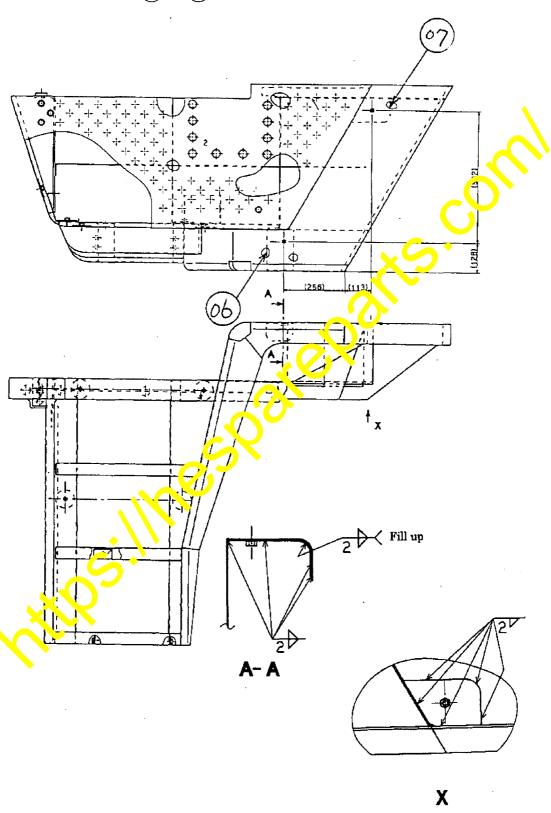


The above drawings are for the platform, L.H.

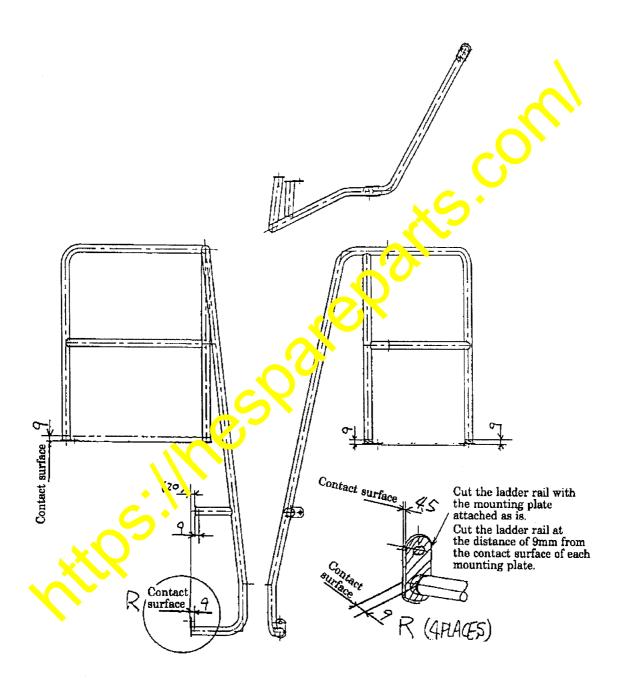
① Weld the plate ⑩ according to the designations given in the above drawings. Weld the reinforcing plate similarly to the platform, R.H.



② Floor panel, L.H Weld the plates 06 and 07 according to the designations given in the drawings below.

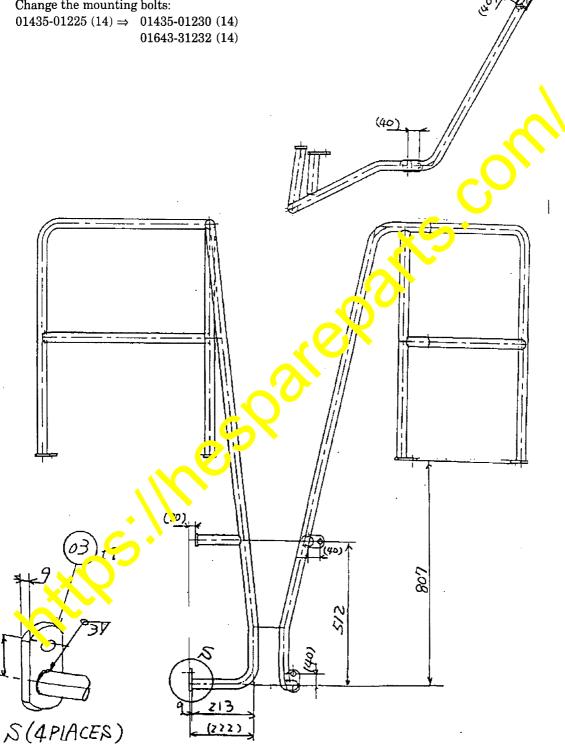


- 2 Reworking with the handrails
  - (1) Replacing the rear ladder rail mounting plates
    - ① As shown in the schematic diagrams below, cut the ladder rail at the distance of 9mm from the contact surface of each mounting plate.



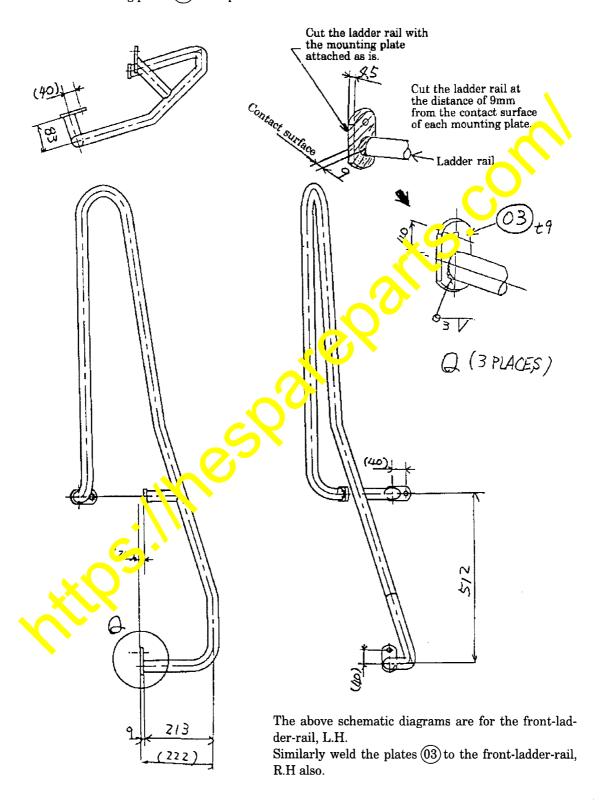
The above schematic diagrams are for the rear-ladder-rail, L.H. Similarly cut the rear-ladder-rail, R.H also at the distance of 9mm from the contact surface of each mounting plate.

② Weld the mounting plates (03) at the positions designated in the schematic diagrams given below.
 Change the mounting bolts:
 01435-01225 (14) ⇒ 01435-01230 (14)



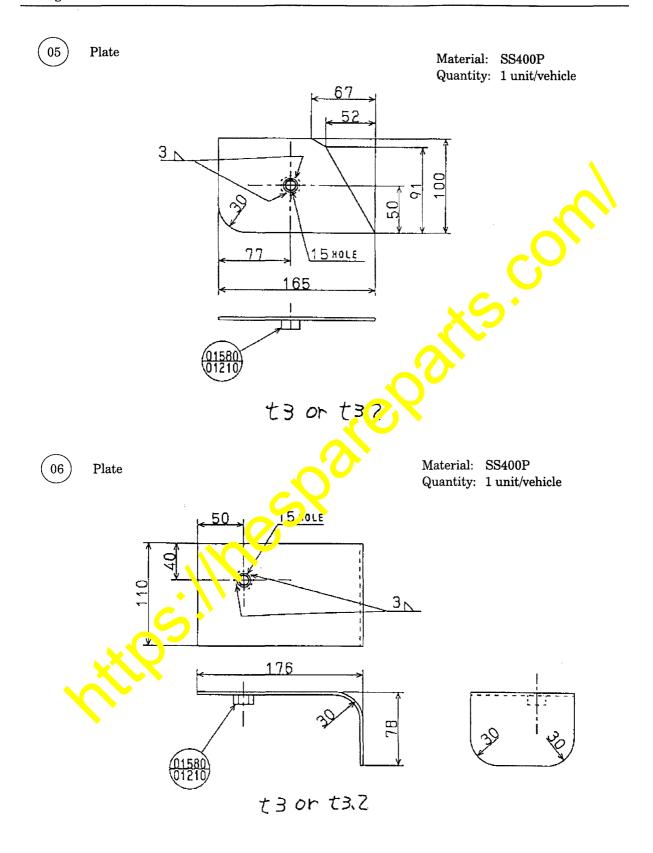
The above schematic diagrams are for the rear-ladder-rail, L.H. Similarly weld the plates (03) to the rear-ladder-rail, R.H also.

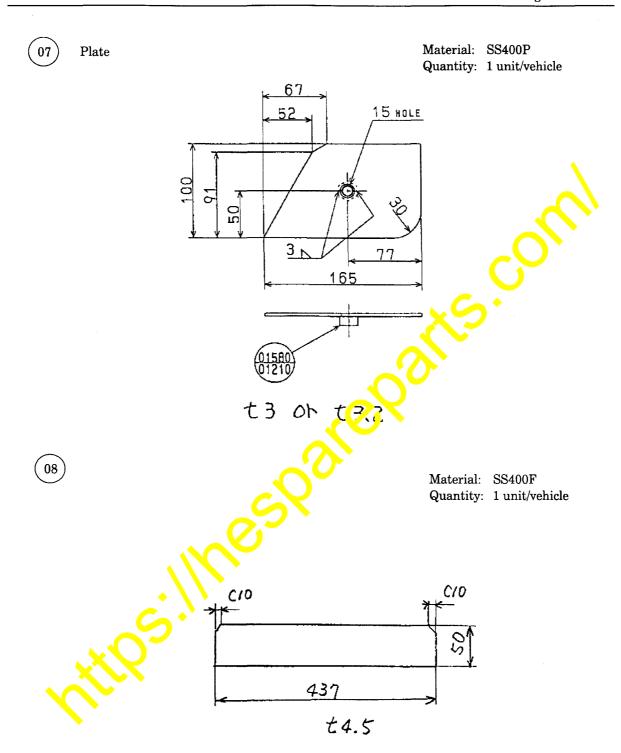
(2) Replacing the front ladder rail mounting plates
Similarly to the case of the rear ladder rails, cut the current mounting plates and weld the new mounting plates (03) for replacement.



# 5. Shapes and dimensions of the reinforcing parts (01 Material: SS400P Quantity: 1 unit/vehicle 25 444 10-34HOLES .84 310 100 110 4-3L073 0 210 t6 $\left[02\right]$ Material: SS400P Quantity: 1 unit/vehicle 210 Ф 4-8L018 10-34HaLES 310 402 t6

(03)Plate Material: SS400F Quantity: 14 units/vehicle 1 BHOLE 25 80  $\left[04\right]$ Plate Material: SS400P Quantity: 1 unit/vehicle 31 176 t3 or t3.2





09 Material: SS400F Quantity: 1 unit/vehicle C10 C/0 396 t4.5 (10)Material: SS 100P 6 anuty: 2 units/vehicle 201) 7,3.2 or 3.0