

PARTS & SERVICE NEWS

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DATE	Dec. 22, 2000
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This PARTS & SERVICE NEWS supersedes the previous issue No. AT00197 dated Sep. 25, 2000 which should be discarded.

SUBJECT: INTRODUCTION OF LOW OPERATOR COMPARTMENT NOISE SPEC. HD465/605-5

PURPOSE: To introduce newly prepared "low compartment noise spec. parts" for installation on HD465-5 and HD605-5 dump trucks

APPLICATION: HD465-5 Dump Trucks, Serial Nos. 4001 and up
HD605-5 Dump Trucks, Serial Nos. 1001 and up


FAILURE CODE: 551069

DESCRIPTION:

1-1. Introduction





This Service News will introduce the "low compartment noise spec. parts" newly prepared to suppress the noise level inside the operator's compartment (to 80 dB(A) or less at operator's ear by SAE J919 or equivalent) of the HD465-5 and HD605-5 dump trucks and their installation procedures.

1-2. Revised places:

10 places 	Dec. 22, 2000	Addition of sound absorbing materials to the engine hood rear surface was cancelled.
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2. List of parts

No.	Part No.	Part Name	Q'ty	Remarks
1	569-89-65110	Plate	1	
2	569-89-65120	Plate	1	
3	569-89-65130	Plate	1	
4	569-89-65140	Plate	1	
5	569-89-65150	Plate	1	
6	569-89-65160	Plate	1	
7	569-89-65170	Plate	1	
8	569-89-65210	Damper	1	
9	569-89-65220	Damper	1	
10	569-89-65230	Damper	1	
11	569-89-65240	Damper	1	


No.	Part No.	Part Name	Q'ty	Remarks
12	569-89-65250	Damper	1	
13	569-89-65260	Damper	1	
14	569-89-65270	Damper	1	
15	569-89-65280	Damper	1	
16	569-89-65290	Damper	1	
17	569-89-65310	Damper	1	
18	569-89-65320	Damper	1	
19	569-89-65410	Sheet	1	
20	569-89-65420	Sheet	1	
21	569-89-65430	Sheet	1	
22	569-89-65440	Sheet	1	
23	569-89-65450	Sheet	1	
24	569-89-65460	Sheet	1	
25	569-89-65470	Sheet	1	
26	569-89-65480	Sheet	1	
27	569-89-65490	Sheet	1	
28	569-89-65510	Sheet	1	
29	569-89-65520	Sheet	1	
30	569-89-65530	Sheet	1	
	569-89-65610	Sheet	1	
	569-89-65620	Sheet	3	
	569-89-65630	Sheet	1	
	569-89-65640	Sheet	3	
35	01572-21019	Seat	49	
36	566-89-45180	Seat	2	
37	01010-81025	Bolt	51	
38	01643-31032	Washer	51	
39	421-09-21380	Grommet	2	

3. Contents of the modification

To suppress the noise level inside the operator's compartment, supplement the following structures and parts to improve the noise insulation factor against noise coming from external sources.

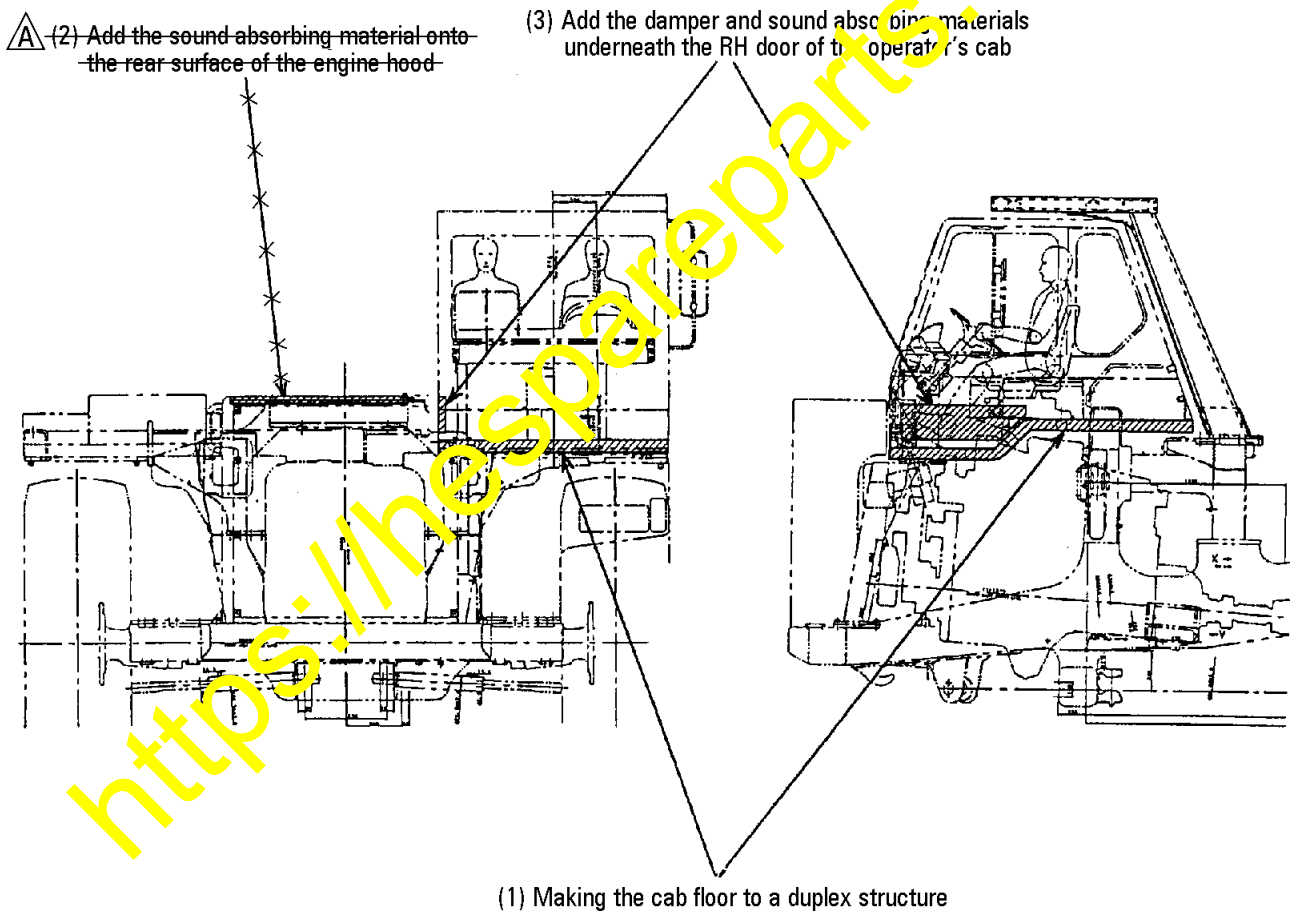
(1) Making the cab floor to a duplex structure

Making the cab floor to a duplex structure, insert damping materials (dampers) and sound absorbing materials (sheets) in between.

~~ (2) Add the sound absorbing materials onto the rear surface of the engine hood~~

(3) Add the dampers and sound absorbing materials underneath the RH door of the operator's cab

Since this section is in hollow state currently, install the dampers and sound absorbing materials into this space.



4. Checks to make before starting this modification work.

Before starting this modification work, check the following points and, when necessary, make adjustment or replacement.

(1) Checking the sealing capacity of the LH operator's cab door

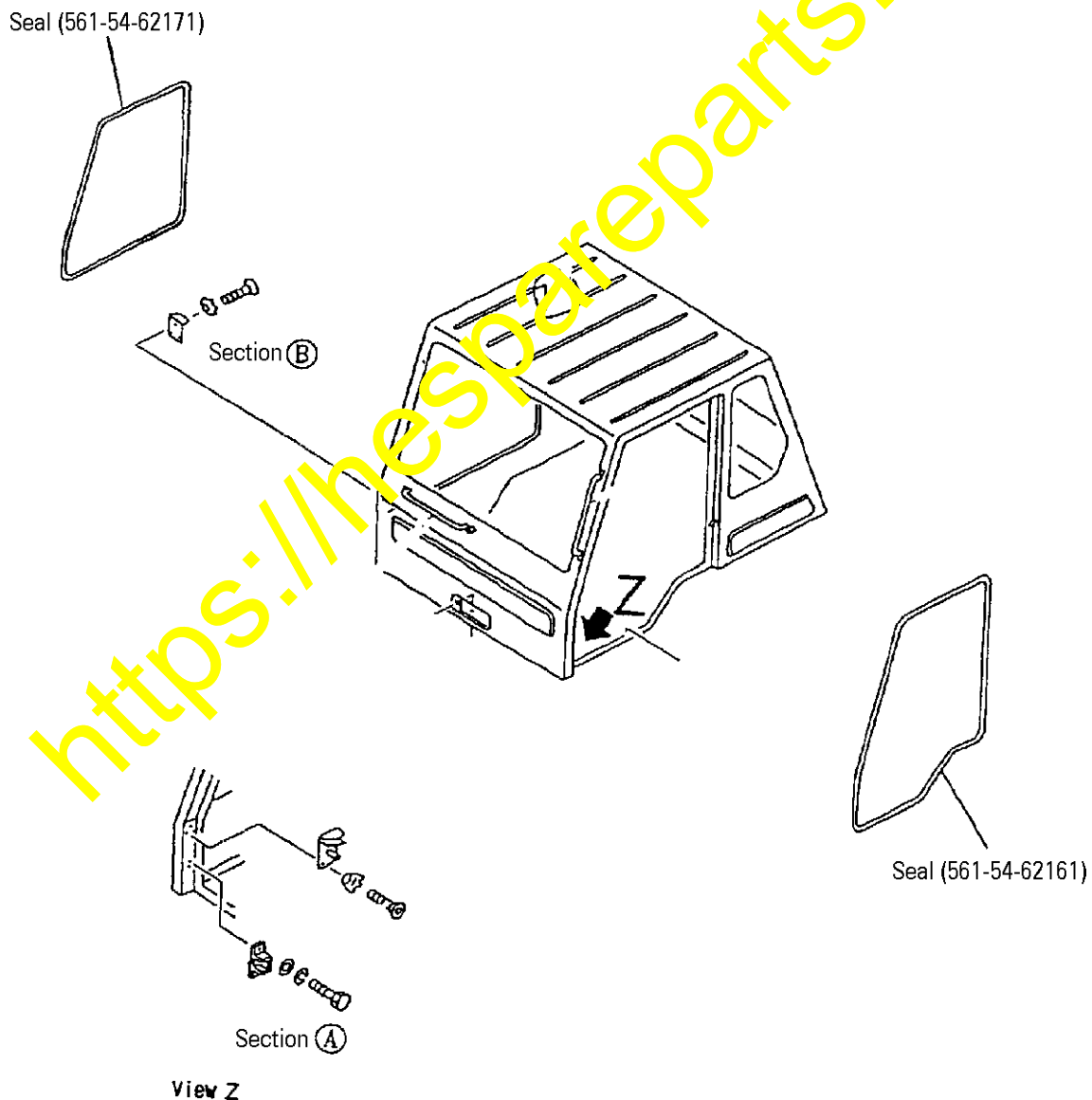
Check and make sure that the door seal (561-54-62161) is being flattened evenly when the door is closed, thus providing secure sealing effect. If the seal is not being flattened evenly, adjust the section (A).

Also, when the seal is found defective, replace it with a new seal.

(2) Checking the sealing capacity of the RH operator's cab door

Check and make sure that the door seal (561-54-62171) is flattened evenly when the door is closed, thus providing secure sealing effect. If the seal is not being flattened evenly, adjust the section (B).

Also, when the seal is found to be defective, replace it with a new seal.



5. Installation procedures

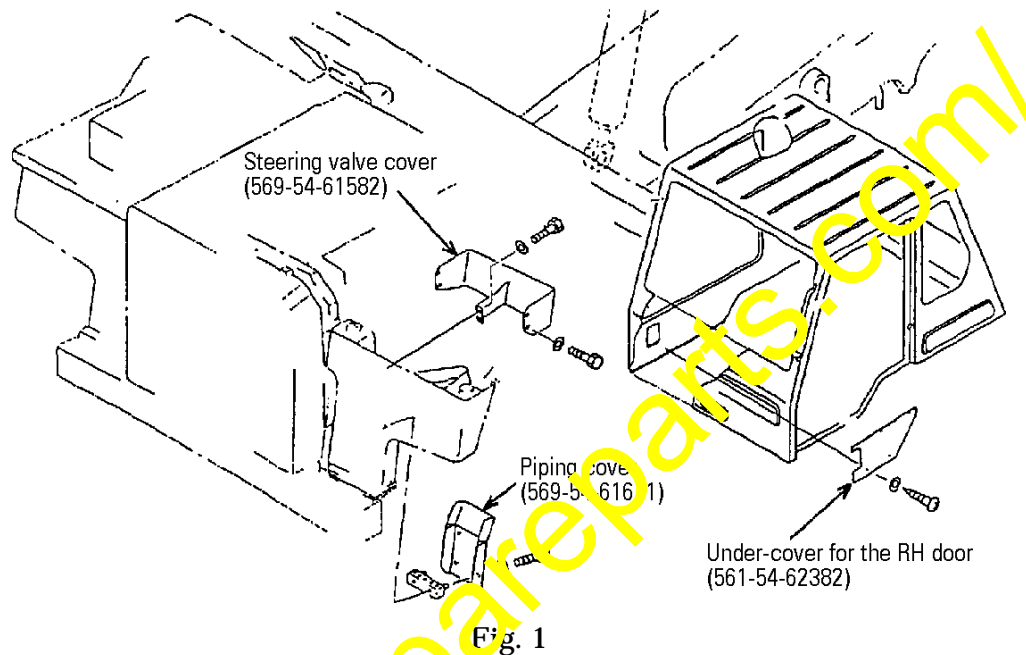
Park the vehicle on a level place, apply the parking brake, turn off the starting key and insert chocks behind the wheels.

Open the battery box and disconnect the negative terminal connection of the battery.

5-1. Removing the parts which need to be removed for this modification

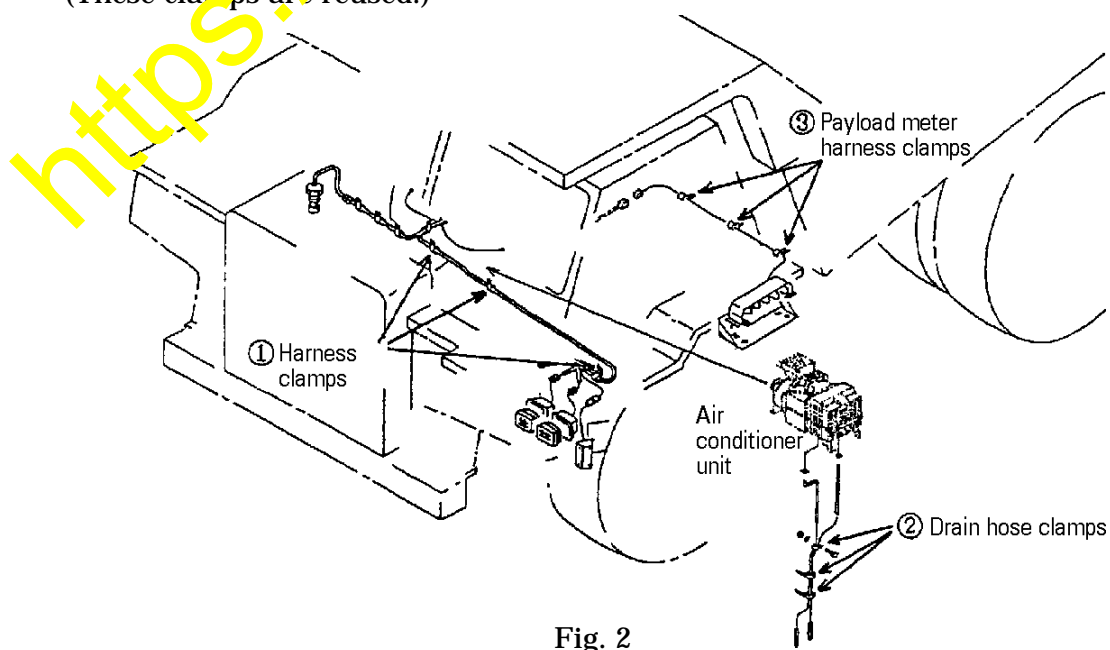
(1) Covers (Refer to Fig. 1.)

- ① Remove the steering valve cover (569-54-61582) and the piping cover (569-54-61611) located underneath the operator's cab.
- ② Remove the under-cover for the RH door (561-54-62382). (These covers are reused.)



(2) Clamps for the hoses and harnesses (Refer to Fig. 2.)

- ① Remove the harness clamps (at 3 places) located in the front section underneath the operator's cab floor.
- ② For air conditioned vehicles, remove the drain hose clamps (at 3 places).
- ③ With vehicles equipped with a payload meter, remove the clamps (at 3 places) for the 5-fold lamp harness located on the RH side of the operator's cab. (These clamps are reused.)



5-2. Reworking with the operator's cab floor

(1) Installing the seats

Weld the seat ③⑤ (01572-21019) and the seat ③⑥ (566-89-45180) onto the bottom surface of the operator's cab floor.

- ※ Connect the grounding lead of the welder to the cab GND section located on the bottom surface, in the front section toward left, of the cab floor.

5-3. Installing the prepared parts

(1) Installing the prepared parts to the bottom surface of the operator's cab floor (Refer to Fig. 6 thru Fig. 8.)

1) Dampers (damping materials)

After welding the seats onto the bottom surface of the operator's cab floor, thoroughly clean to remove welding spatter, mud and dirt from the bottom surface of the operator's cab floor.

Apply the dampers ⑧ thru ⑰ onto the bottom surface of the operator's cab floor. Since adhesive is applied to one side of the dampers, remove the protection sheet before applying the dampers. At this time, depress the dampers onto the bottom surface of the operator's cab floor using a hammer.

2) Sheets (sound absorbing materials)

Apply the sheets ⑱ and ⑳ thru ㉑ onto the surface of the dampers which have been applied onto the bottom surface of the operator's cab floor according to the procedure in the above Paragraph 1).

Since adhesive is applied to one side of these sheets, remove the protection sheet before applying them onto the damper surfaces.

As for the sheets ㉒ and ㉓, remove the steering column cover (561-54-63231) located inside the operator's cab to apply them onto the upper surface of the floor. (Refer to Fig. 3.)

3) Plates

Install the plates ① through ⑦ onto the bottom surface of the operator's cab floor using bolts ⑳⑦ (01010-81025) and washers ㉑⑧ (01643-31032).

At this time, install the removed harness clips to the plate. Also, install the operator's cab grounding cable located in the rear section to the plate.

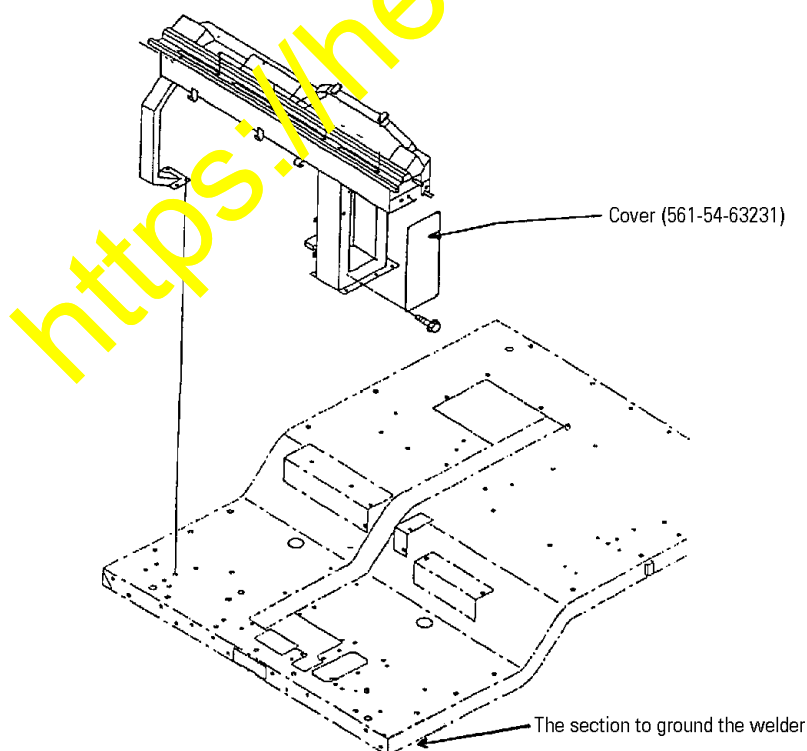






Fig. 3



~~ (2) Installing the prepared parts onto the rear surface of the engine hood. (Refer to Fig. 9.)~~



~~Thoroughly clean the rear surface of the engine hood to completely remove mud and dirt.~~

~~Apply the sheets  thru  onto the rear surface of the engine hood. Since adhesive is being pre-applied onto one side of these sheets, remove the protection sheet before applying these sheets onto the rear surface of the engine hood.~~

(3) Installing the prepared parts to the lower section of the RH door of the operator's cab (Refer to Fig. 4.)

Apply the damper  (569-89-65320) to the surface of the section from where the under-cover (561-54-62382) for the RH door has been removed. Since adhesive is applied to one side of the damper, remove the protection sheet before applying the damper. At this time, depress the damper onto the operator's cab panel using a hammer or the sort.

Apply the sheet  (569-89-65530) onto the surface of the damper . Since adhesive is applied to one side of this sheet, remove the protection sheet before applying the sheet onto the damper surface.

If it is difficult to apply the aforementioned damper  and sheet  in whole being hindered by existence of air conditioner hoses or other structures, they may also be split to appropriate shapes.

Finally, reinstall the under-cover for the RH door.

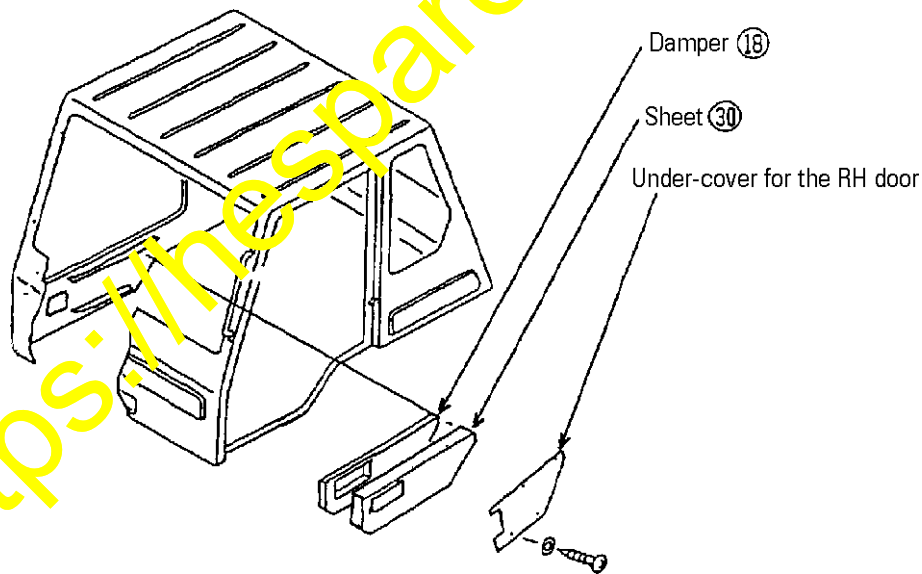


Fig. 4

After completing installation of all the low compartment noise spec. parts, reconnect the negative terminal connection of the battery.

1 place, \triangle

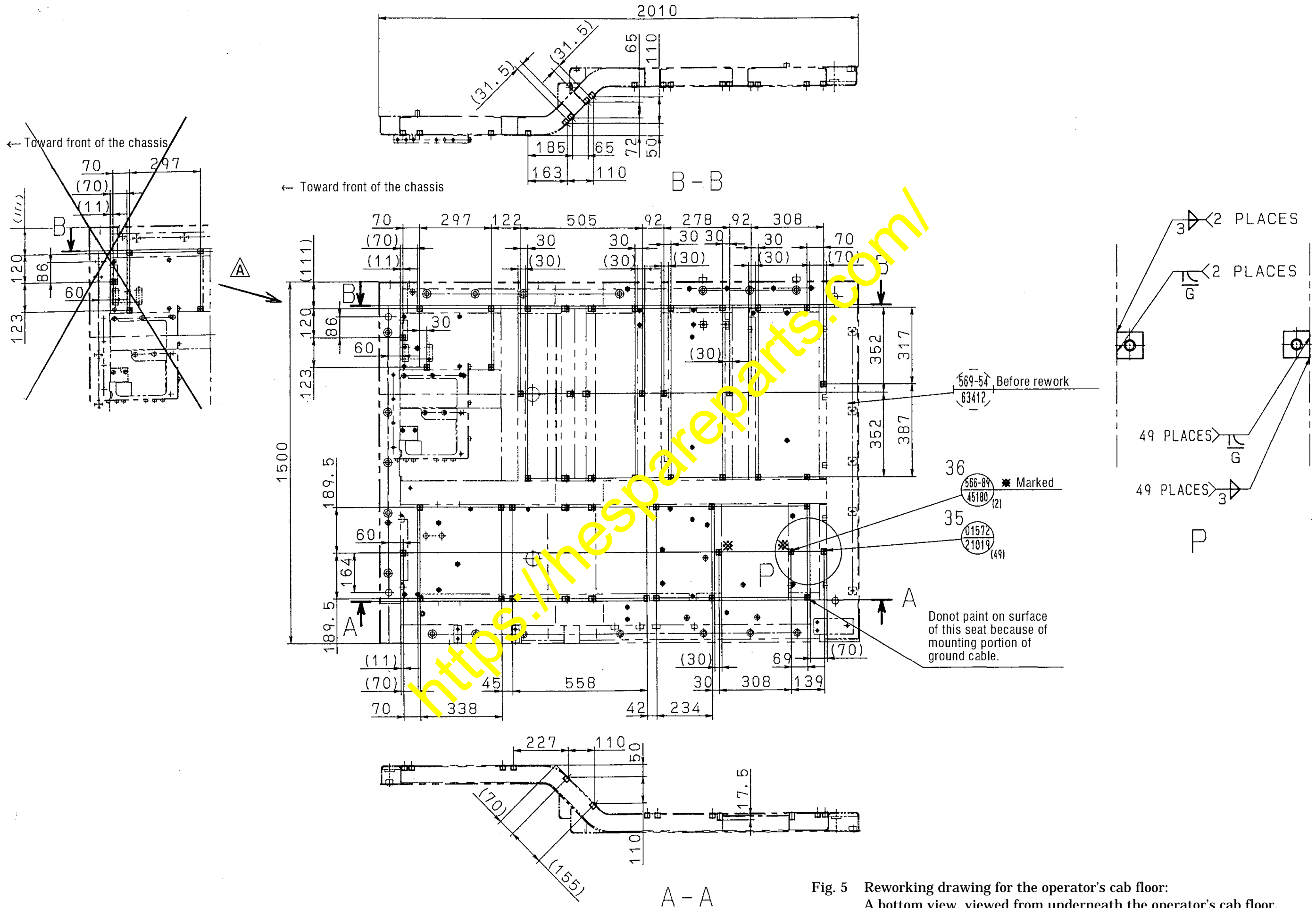


Fig. 5 Reworking drawing for the operator's cab floor:
A bottom view, viewed from underneath the operator's cab floor.

← Toward front of the chassis

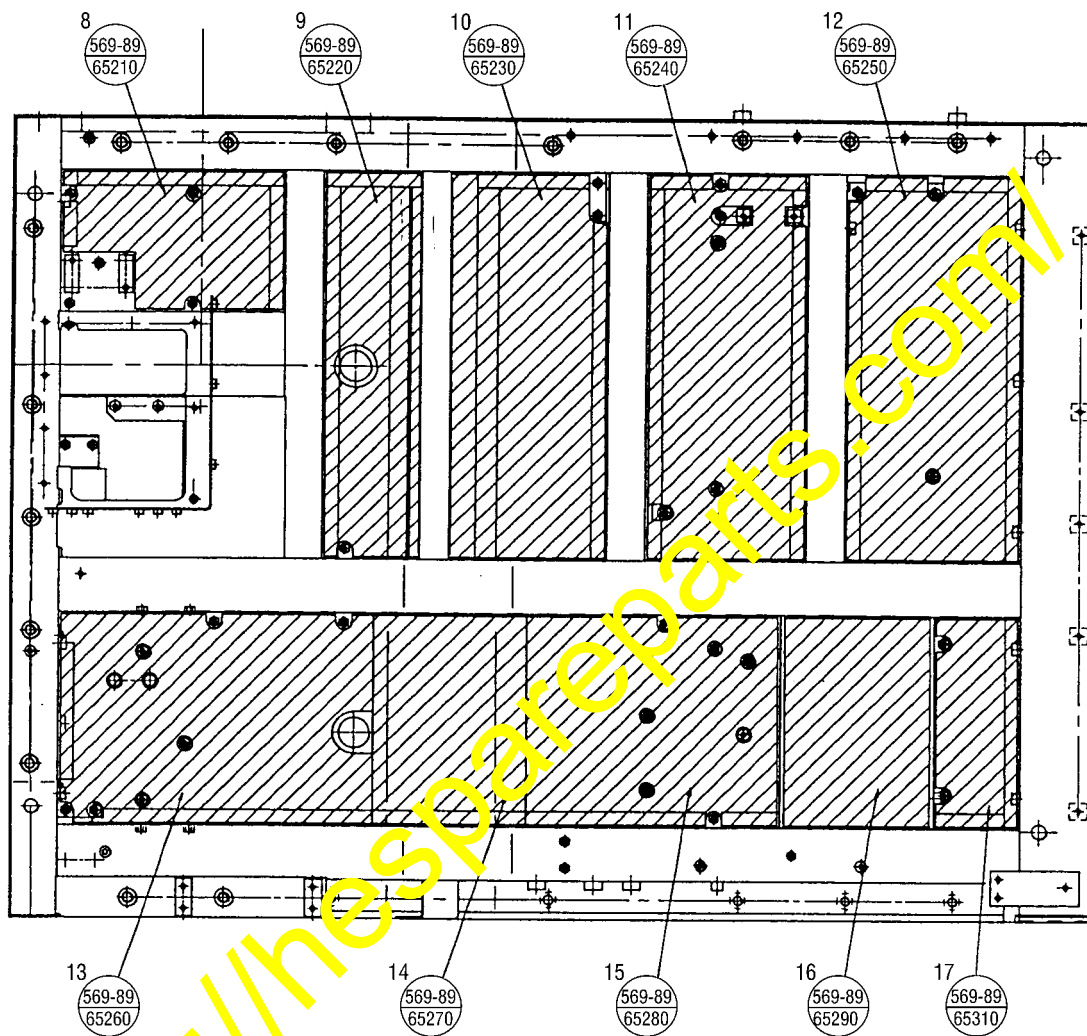


Fig. 6 Drawing for installation of the dampers (a bottom view)

← Toward front of the chassis

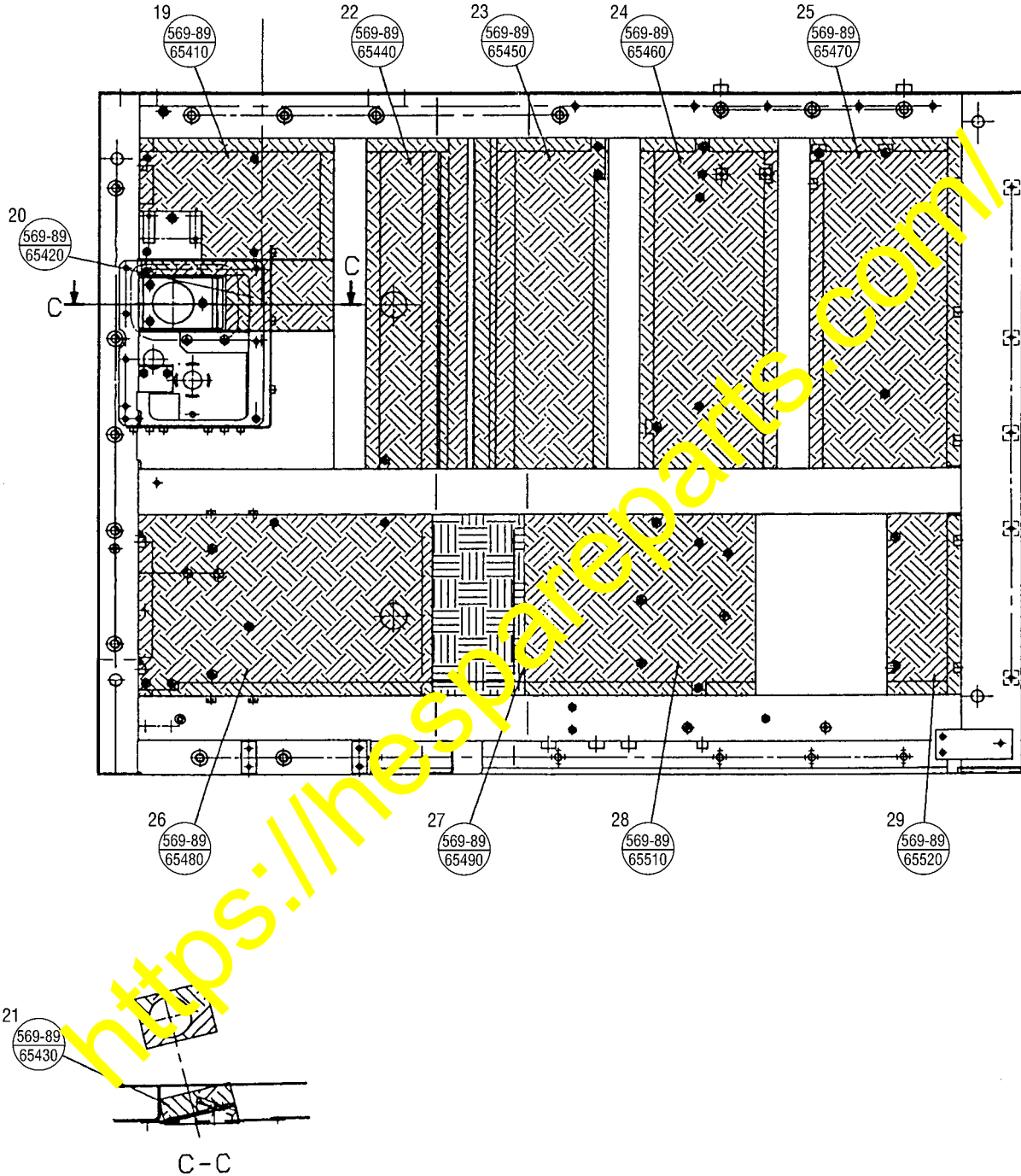


Fig. 7 Drawing for installation of the sheets (a bottom view)

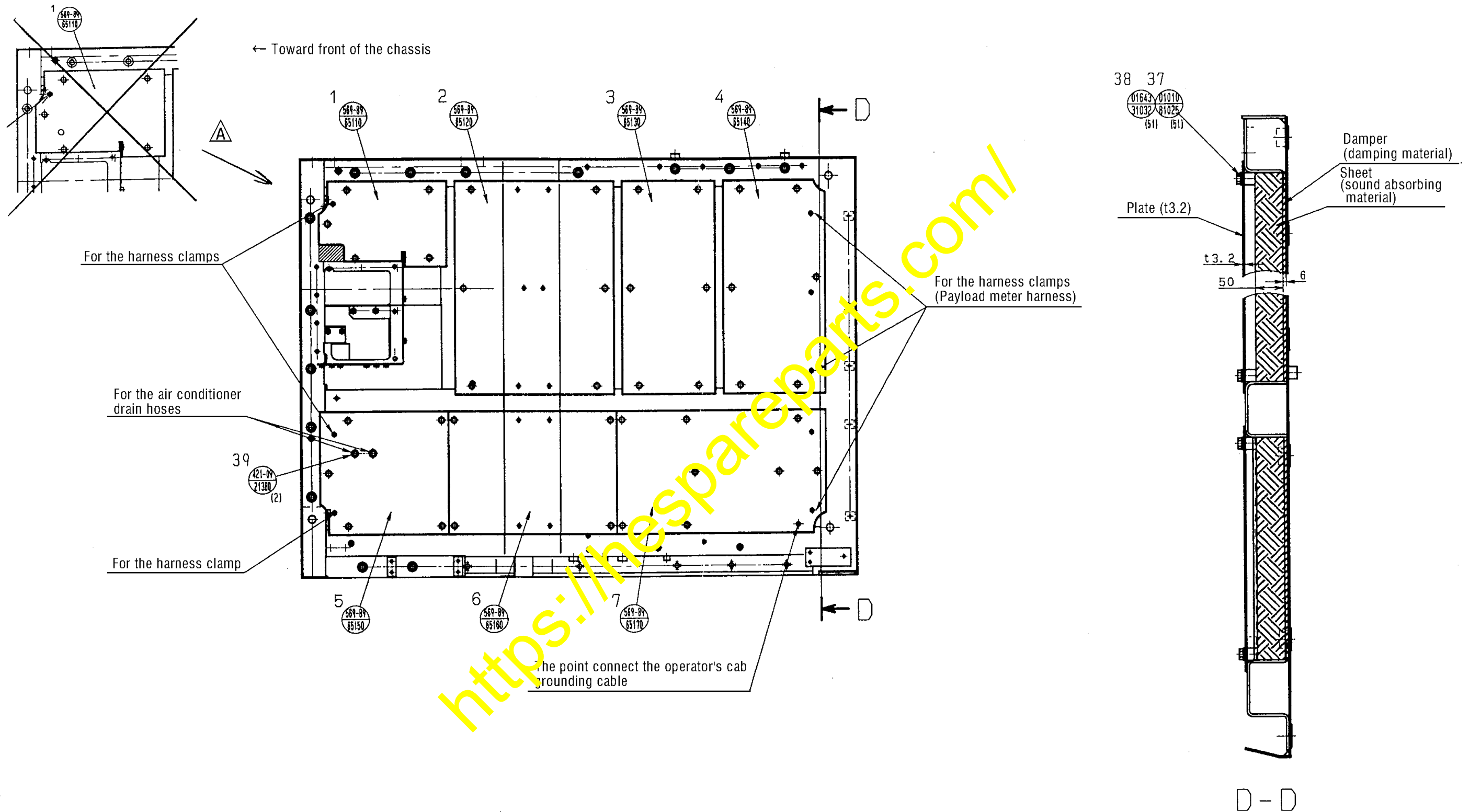


Fig. 8 Drawing for installation of the plates (a bottom view)

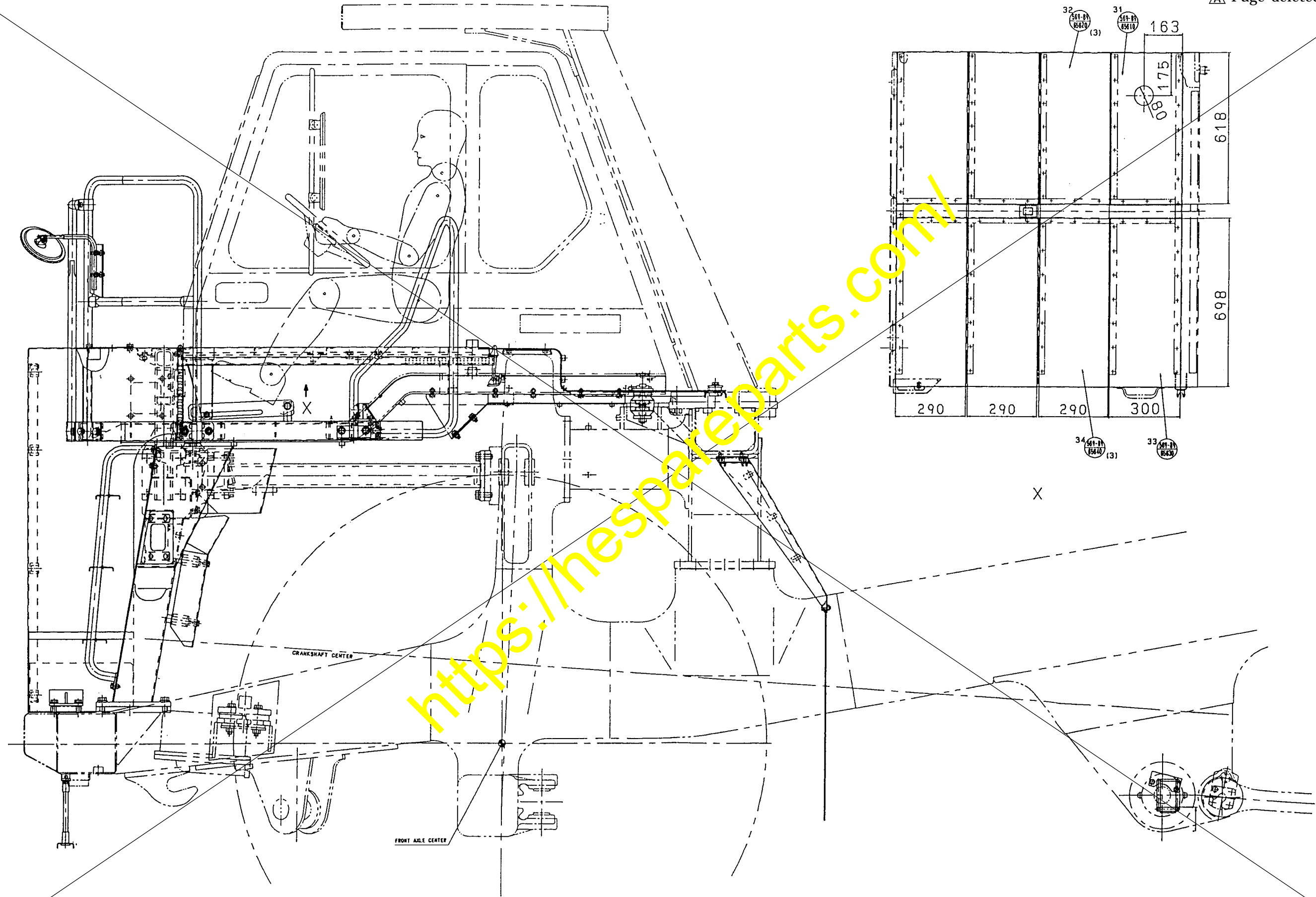


Fig. 9 Drawing for installation of the prepared parts onto the rear surface of the engine hood