

# PARTS & SERVICE NEWS

REF NO.	AT03048C
DATE	May 21, 2004
Page 1 of 13	

(C)

This PARTS & SERVICE NEWS supersedes the previous issue No. AT03048B dated Apr. 16, 2004 which should be discarded.

**SUBJECT:** REPAIR PROCEDURE FOR TIRE VALVE EXTENSION COVER ON HD465/605-7

**PURPOSE:** To introduce modification procedure to repair the tire valve extension protective cover deformed on HD465-7 and HD605-7 dump trucks

**APPLICATION:** HD465-7 Dump trucks, Serial Nos. 7001 thru 7188  
HD605-7 Dump trucks, Serial Nos. 7001 thru 7096

**FAILURE CODE:** 3A32FF

## DESCRIPTION:

### 1-1. Introduction

The strengthened tire valve extension protective cover and the improved rock ejector mounting bracket on the HD465-7 and HD605-7 dump trucks have been developed. When the above mentioned cover is deformed or when air leaks from the tires, repair the failure following the modification procedure described in this Service News.

### 1-2. Revised places:

12 places $\triangle A$	Sep. 26, 2003	Added modification of the poke ejector
$\triangle B$	Apr. 16, 2004	All the pages have been revised and the previous Service News should be totally replaced with this new version.
1 place $\triangle C$	May 21, 2004	Added the precautions when removing the inner tires.

## 2. List of parts

For the HD465-7 and HD605-7 (Refer to pages 3 and 4 in case of the CS spec. vehicles of the HD465-7.)

Part No.	Part Name	Purpose of part	Q'ty	Remarks
569-22-72891 (569-22-72880)	Cover (Cover)	}	2 (2)	HD465-7: #7001 – #7119, #7152 HD605-7: #7001 – #7051, #7054, #7059
569-22-72891 (569-22-72881)	Cover (Cover)		2 (2)	HD465-7: #7120 – #7151, #7153 – #7188 HD605-7: #7052, #7053, #7055 – #7058, #7060 – #7096
01010-61660 (01010-61635)	Bolt (Bolt)	} Replacement	8 (8)	
569-30-72130 (09284-00065)	Extension (Extension)		2 (2)	
09280-00020 (569-30-71600)	Valve (Valve)		2 (2)	
569-74-81622 (569-74-81620)	Bar (Bar)		2 (2)	HD465-7: #7001 – #7119, #7152
569-74-81622 (569-74-81621)	Bar (Bar)		2 (2)	HD465-7: #7120 – #7151, #7153 – #7188
569-74-81622 (569-83-85620)	Bar (Bar)		2 (2)	HD605-7: #7001 – #7052, #7054, #7059
569-74-81622 (569-83-85621)	Bar (Bar)		2 (2)	HD605-7: #7052, #7053, #7055 – #7058, #7060 – #7096
581-74-11360 (01011-82490)	Pin (Bolt)		2 (2)	HD465-7: #7001 – #7119, #7152 HD605-7: #7001 – #7051, #7054, #7059
581-74-11360 (01011-82495)	Pin (Bolt)		2 (2)	HD465-7: #7120 – #7151, #7153 – #7188 HD605-7: #7052, #7053, #7055 – #7058, #7060 – #7096
04050-18055 (01580-12419)	Pin (Nut)		} Disused	2 (4)
(569-74-61690)	(Spacer)	(2)		HD465-7: #7001 – #7119, #7152 HD605-7: #7001 – #7051, #7054, #7059
(01640-22540)	(Washer)	(2)		HD465-7: #7001 – #7119, #7152 HD605-7: #7001 – #7051, #7054, #7059

Part No.	Part Name	Purpose of part	Q'ty	Remarks	
569-74-81212 (569-74-61210)	Bracket (Bracket)	} Replacement	1 (1)	HD465-7: #7001 – #7119, #7152 HD605-7: #7001 – #7051, #7054, #7059	
569-74-81212 (569-74-61211)	Bracket (Bracket)		1 (1)	HD465-7: #7120 – #7151, #7153 – #7188 HD605-7: #7052, #7053, #7055 – #7058, #7060 – #7096	
569-74-81221 (569-74-61220)	Bracket (Bracket)		1 (1)	HD465-7: #7001 – #7119, #7152 HD605-7: #7001 – #7051, #7054, #7059	
569-74-81221 (569-74-81220)	Bracket (Bracket)		1 (1)	HD465-7: #7120 – #7151, #7153 – #7188 HD605-7: #7052, #7053, #7055 – #7058, #7060 – #7096	
In case of the CS spec. vehicles of the HD465-7					
569-22-72891 (569-22-72880)	Cover (Cover)	} Replacement	2 (2)	#7014, #7084 – #7086	
569-22-72891 (569-22-72881)	Cover (Cover)		2 (2)	#7141	
01010-61660 (01010-61635)	Bolt (Bolt)		8 (8)		
569-30-72130 (09284-00065)	Extension (Extension)		2 (2)		
09280-00020 (569-30-71600)	Valve (Valve)		2 (2)		
569-74-81622 (569-74-81620)	Bar (Bar)		2 (2)	#7014, #7084 – #7086	
569-74-81623 (569-74-81621)	Bar (Bar)		2 (2)	#7141	
569-74-11360 (01011-82490)	Pin (Bolt)		2 (2)	#7014, #7084 – #7086	
581-74-11360 (01011-82405)	Pin (Bolt)		2 (2)	#7141	
04050-18055 (01580-12419)	Pin (Nut)		2 (4)		
04050-18055 (01580-12419)	Pin (Nut)		2 (4)		
(569-74-61690)	(Spacer)		} Disused	(2)	#7014, #7084 – #7086
(01640-22540)	(Washer)			(2)	#7014, #7084 – #7086

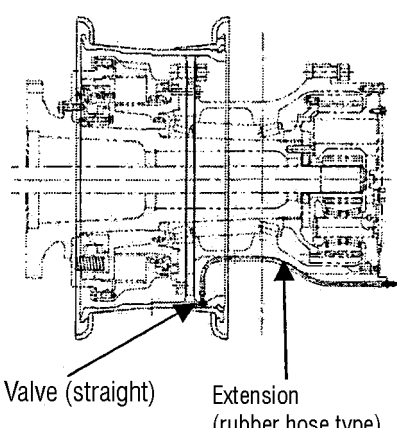
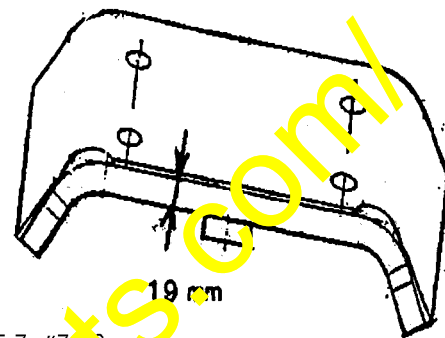
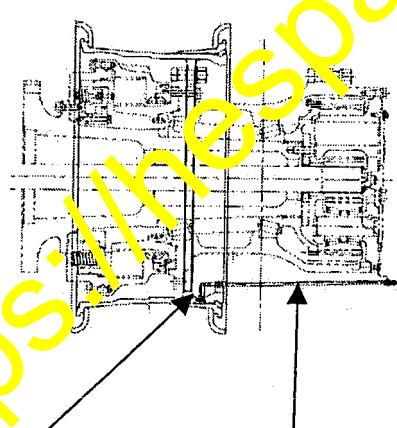
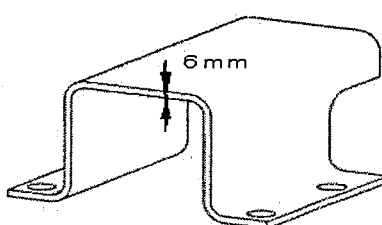
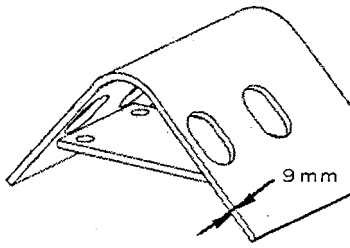
Part No.	Part Name	Purpose of part	Q'ty	Remarks
569-95-13180	Seat	} Replacement	2	
569-74-81212 (569-74-81210)	Bracket (Bracket)		1 (1)	#7014, #7084 – #7086
569-74-81212 (569-74-81211)	Bracket (Bracket)		1 (1)	#7141
569-74-85232 (569-74-85230)	Bracket (Bracket)		1 (1)	#7014, #7084 – #7086
569-74-85232 (569-74-85231)	Bracket (Bracket)		1 (1)	#7141

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3. Details of the modification

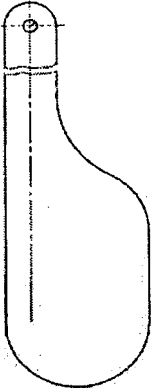

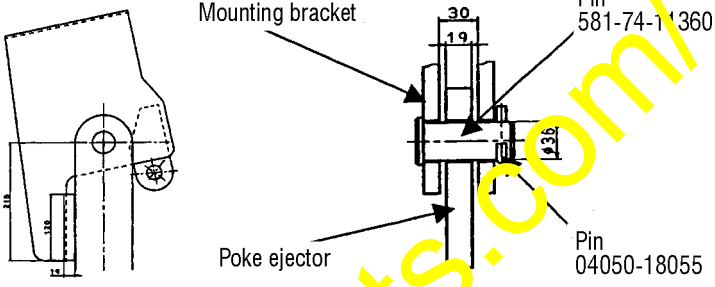
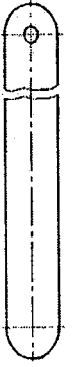
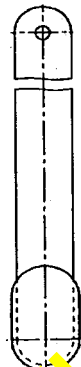
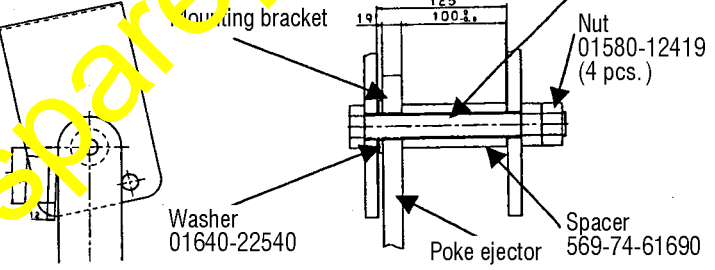
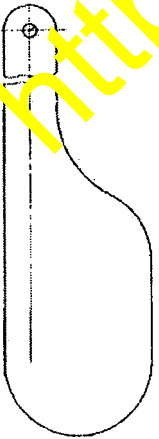
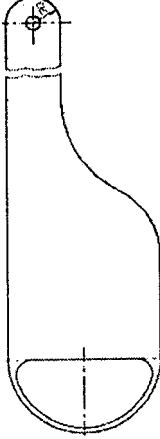
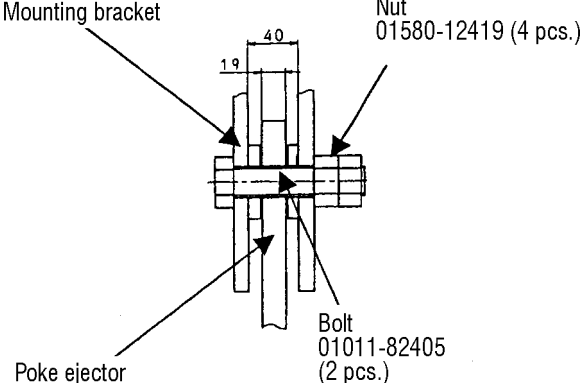
3-1. Details of the modification (Rear axle related modification)

- ① The plate thickness of the tire valve protection cover has been changed: t 6 → t 19
- ② The tire valve extension tube has been changed to the rubber hose. (The position has also been changed.)

	Tire valve	Tire valve cover
Improved part	 <p>Valve (straight) Extension (rubber hose type)</p>	<p>569-22-72891</p>  <p>19 mm</p> <p>HD465-7 #7180~ HD605-7 #7097~</p>
Current part	 <p>Valve (90°) Extension (tube type)</p>	<p>569-22-72880</p>  <p>6 mm</p> <p>HD465-7 : #7001~7119, #7152 HD605-7 : #7001~7051, #7054, #7059</p>
		<p>569-22-72881</p>  <p>9 mm</p> <p>HD465-7 : #7120~7151, #7153~#7188 HD605-7 : #7052, #7053, #7055~#7058 #7060~#7096</p>


3-2. Details of the modification (Body related modification)

- ① The top end shape of the rock ejector has been changed (so that it may not be caught by the rim, cover).
- ② The rock ejector mounting bracket stopper has been strengthened and the size of the mounting pin has been increased.


	Poke ejector		Poke ejector mounting bracket
	HD465-7	HD605-7	
Improved parts	<p>569-74-81622</p> 		<p>LH side: 569-74-81212                      RH side: 569-74-81221 (Vehicles other than the CS spec. vehicles)                      569-74-85232 (CS spec. vehicles)</p>  <p>Mounting bracket                      Pin 581-74-11360                      Pin 04050-18055                      Poke ejector</p>
Current parts	<p>569-74-81620</p> 	<p>569-83-85620</p> 	<p>LH side: 569-74-61210 (Vehicles other than the CS spec. vehicles)                      569-74-81210 (CS spec. vehicles)                      RH side: 569-74-61220 (Vehicles other than the CS spec. vehicles)                      569-74-85230 (CS spec. vehicles)</p>  <p>Mounting bracket                      Bolt 01011-82490                      Nut 01580-12419 (4 pcs.)                      Washer 01640-22540                      Poke ejector                      Spacer 569-74-61690</p> <p>HD465-7 : #7001~7119, #7152                      HD605-7 : #7001~7051, #7054, #7059</p>
	<p>569-74-81621</p> 	<p>569-83-85621</p> 	<p>LH side: 569-74-81211                      RH side: 569-74-81220 (Vehicles other than the CS spec. vehicles)                      569-74-85231 (CS spec. vehicles)</p>  <p>Mounting bracket                      Nut 01580-12419 (4 pcs.)                      Bolt 01011-82405 (2 pcs.)                      Poke ejector</p> <p>HD465-7 : #7120~7151, #7153~#7188                      HD605-7 : #7052, #7053, #7055~#7058                      #7060~#7096</p>

## 4. Modification procedure

## 4-1. Rear axle related modification --- Refer to pages 8 and 9 for details.

- (1) Park the vehicle on a flat place and turn ON the parking brake.
- (2) Apply chocks to the front tires, and after that, jack up the rear axle to raise the rear tires.
- (3) Remove the outer tire.
- (4) Remove the damaged or deformed cover and extension.
- (5) Remove the tire valve being installed to the rim of the inner tire.
- (6) Install the new tire valve and extension to the rim, then install the improved cover.  
 Bolt tightening torque: 245 - 309 Nm {25 - 31.5 kgm}

- (7) Install the outer tire.

 Nut tightening torque: 1,519 - 1,617 Nm {155 - 165 kgm}

- (8) Charge the air into the tires upto the standard air pressure.

- HD465-7

Standard tires: 24.00-35-36PR 0.47 MPa {4.75 kgf/cm<sup>2</sup>}

Optional tires: 24.00R35★★ 0.69 MPa {7.0 kgf/cm<sup>2</sup>}

- HD605-7

Standard tires: 24.00R35★★ 0.69 MPa {7.0 kgf/cm<sup>2</sup>}

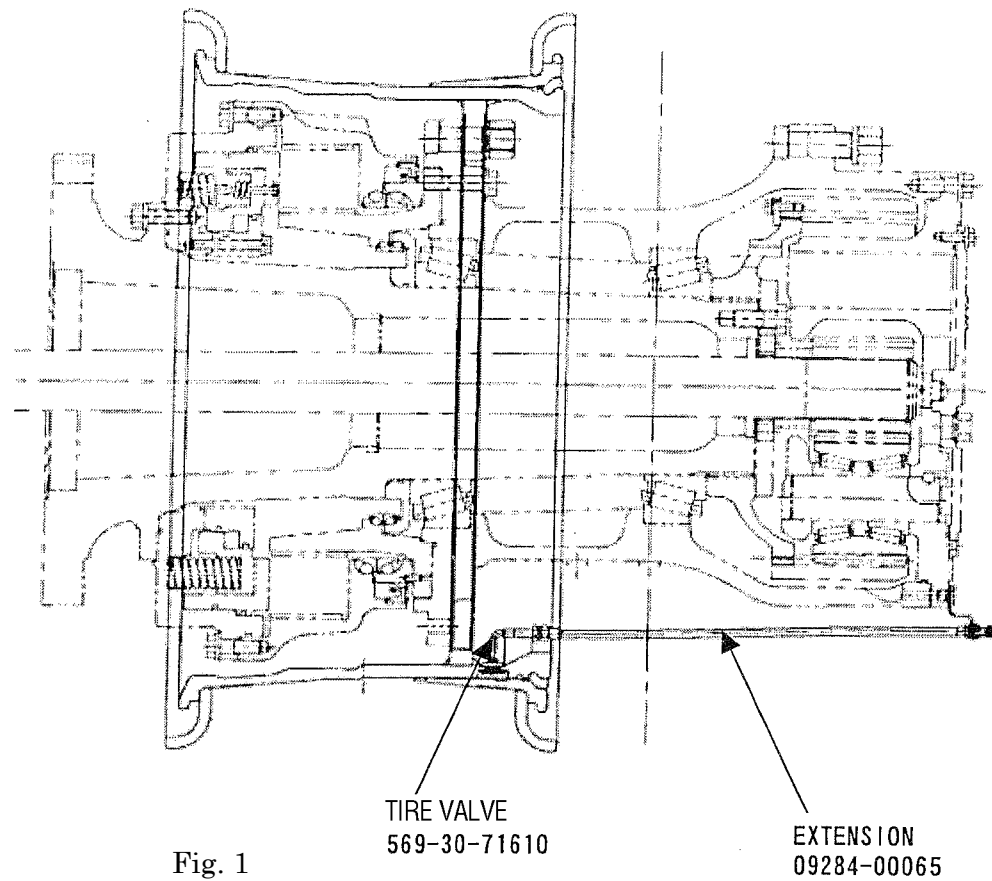
Optional tires: 24.00-35-48PR 0.64 MPa {6.5 kgf/cm<sup>2</sup>}

- (9) Lower the rear axle.

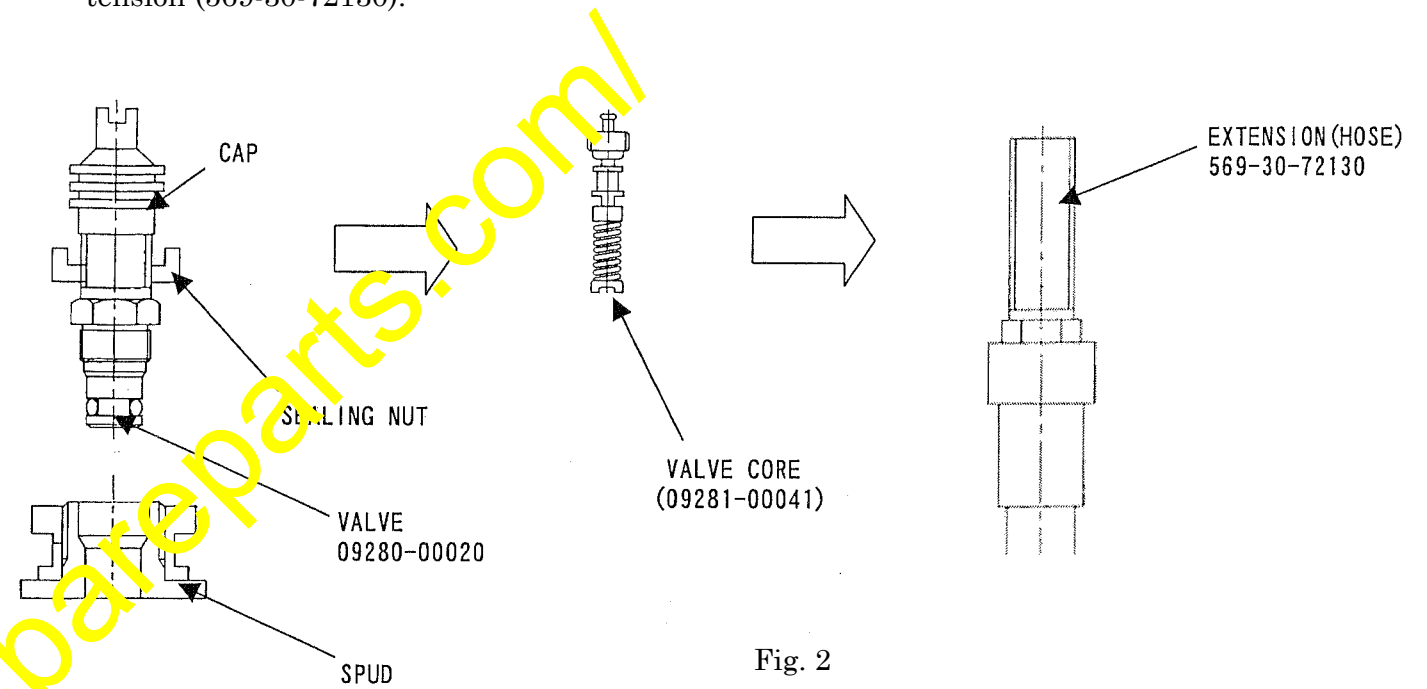
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Replacement procedure for the tire valve, extension and cover (1/2)

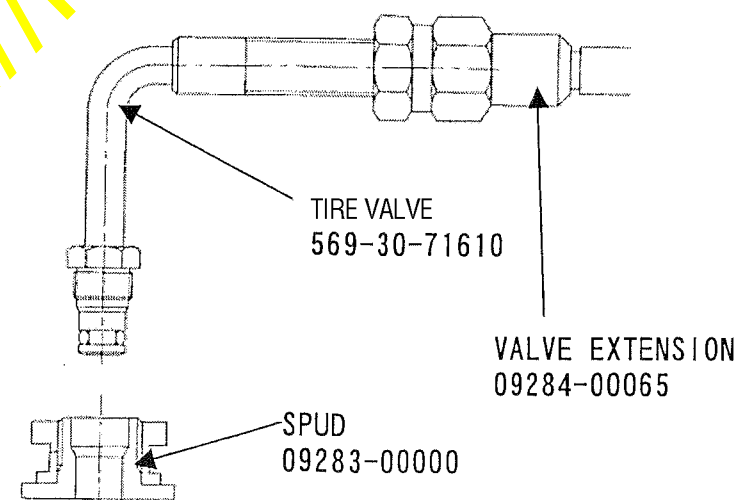
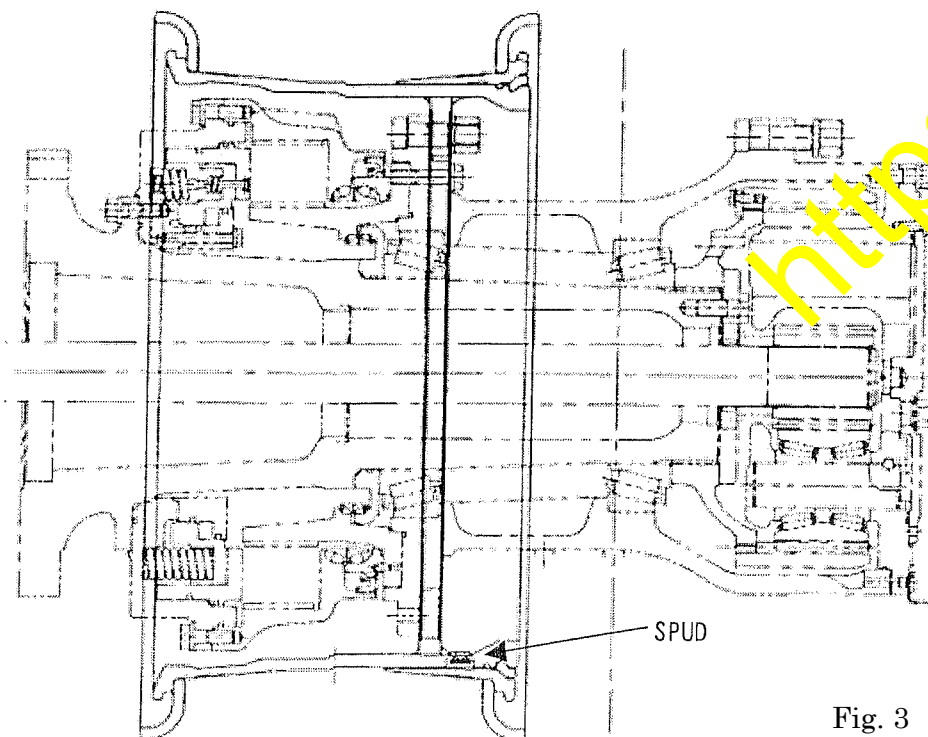
- ① Remove the outer tire.



- ② Regarding the tire valve related parts, make the following preparations in advance.
- From the newly arranged valve (09280-00020), remove the cap and the valve core (09281-00041). Also, remove the spud at the same time since it becomes unnecessary.
  - Remove the sealing nut from the newly arranged extension (569-30-72130) and install the removed sealing nut to the newly arranged valve (09280-00020). Also, install the cap to the valve (09280-00020) temporarily.
  - Install the valve core which has been removed from the valve to the tip end of the newly arranged extension (569-30-72130).



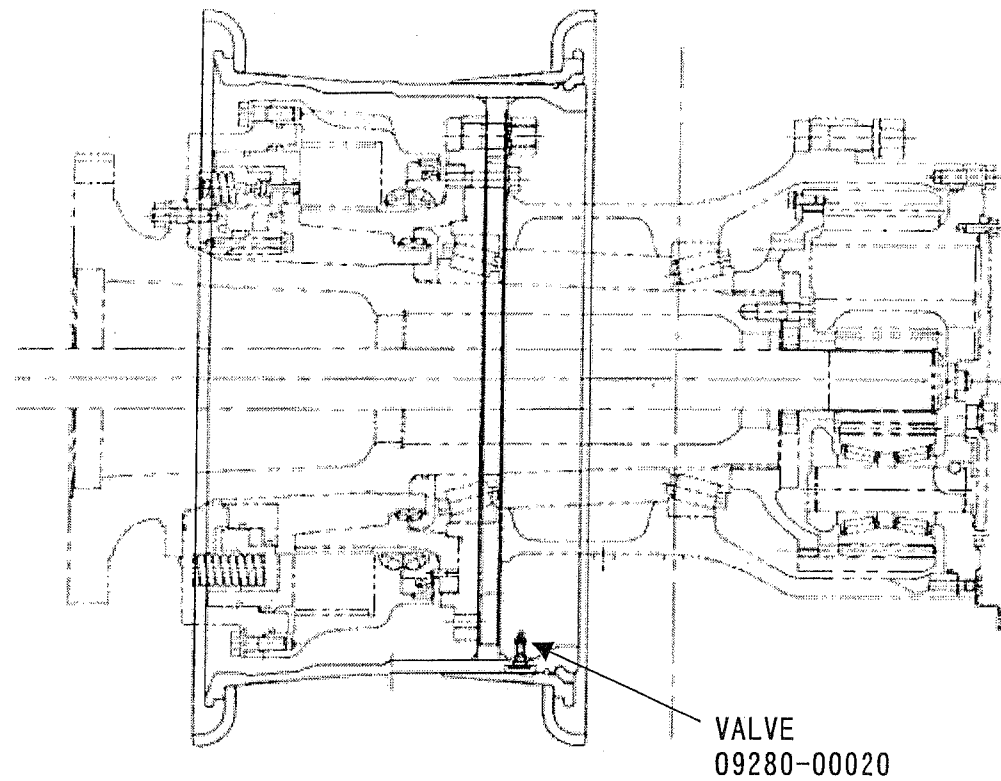
- ③ Remove the tire valve (569-30-71610) and the extension (09284-00065). Leave the spud (09283-00000) since it is being reused.
- ⚠ When removing the valve, be careful since the tire air will be released.






Replacement procedure for the tire valve, extension and cover (2/2)

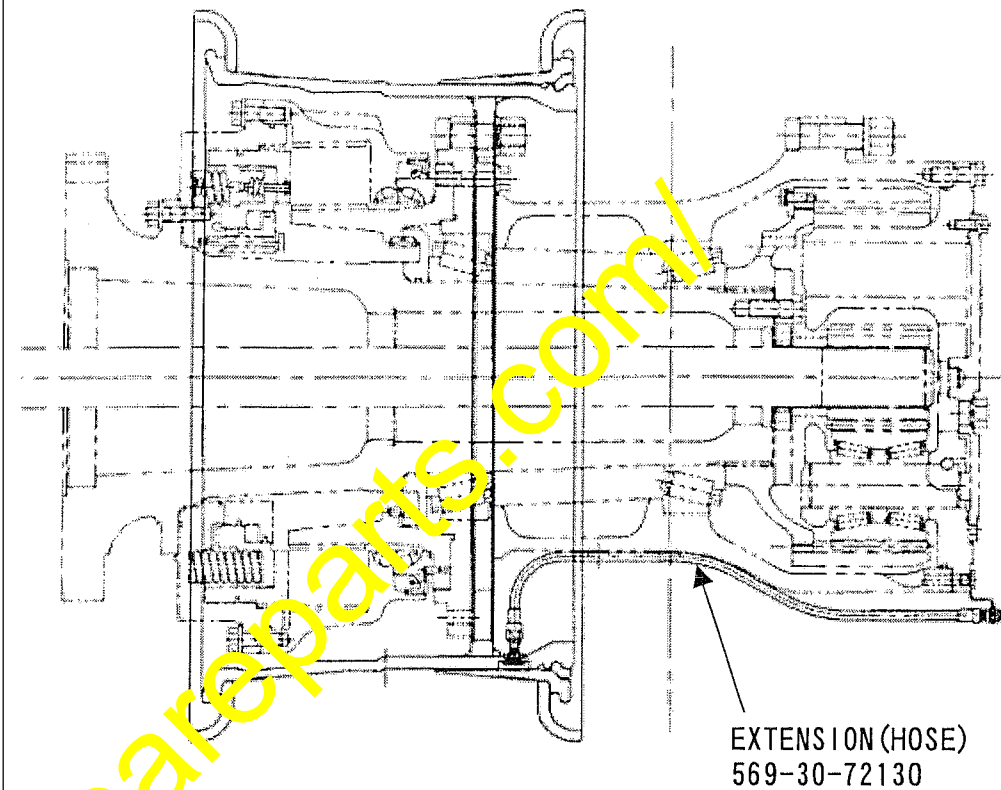
- ④ Install the valve (09280-00020) which has been prepared as per the above Process ②.



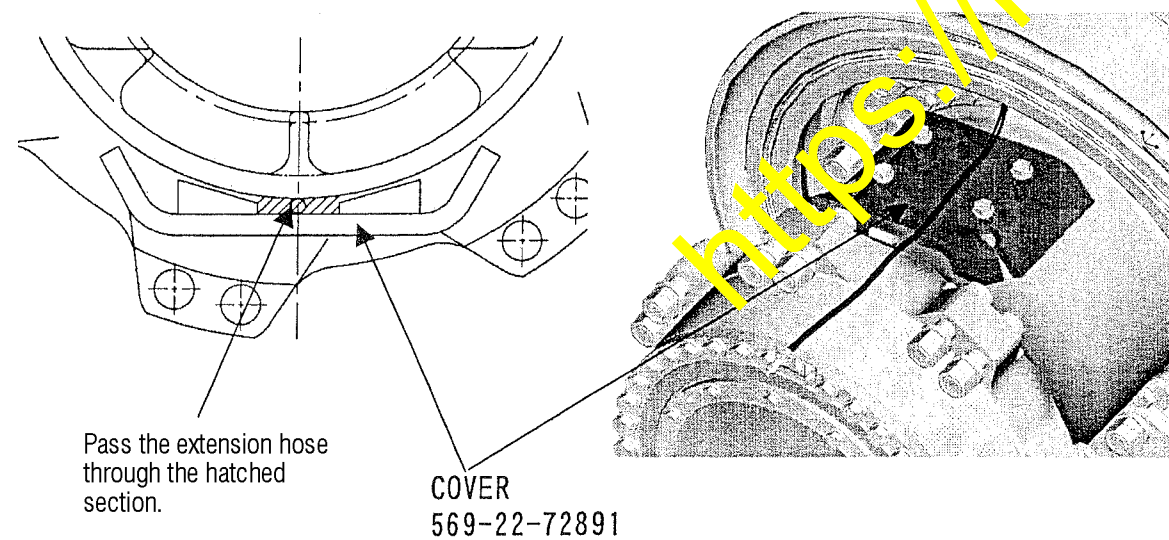
- ⑤ Remove the temporarily installed cap from the valve (09280-00020) and install the extension (hose) (569-30-72130).

After installing the extension hose (569-30-72130), tighten the sealing nut.

-  Be careful since the tire air will be released when the cap is removed from the valve (09280-00020).



- ⑥ Install the cover (569-22-72891) using the bolts (01010-61660) and washers (01643-31645). Regarding the washers (01643-31645), reuse the current washers.



After installing the extension (hose), tighten the sealing nut.

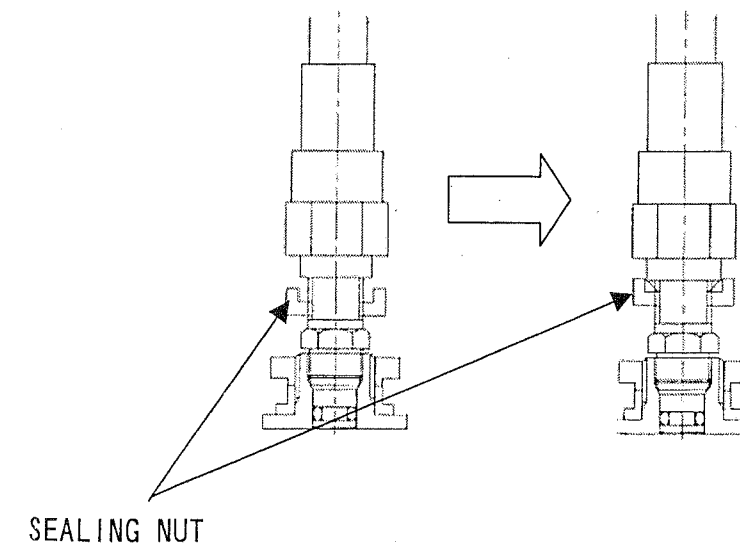




Fig. 4

-   When removing the inner tires, disconnect the extension (hose) once and install the cap to the valve.

(Be careful since tire air will leak when the extension (hose) is disconnected.)

If the inner tires are removed with the extension (hose) being in the installed state, the extension (hose) will interfere with the wheel hub and the extension (hose) will be damaged there.

4-2. Body related modification

- (1) Park the vehicle on a flat place and turn ON the parking brake.
- (2) Raise the body and insert the safety pins.
- (3) Remove the rock ejector.
- (4) Gas cut the rock ejector mounting brackets (on the LH and RH sides) off the lower surface of the body.

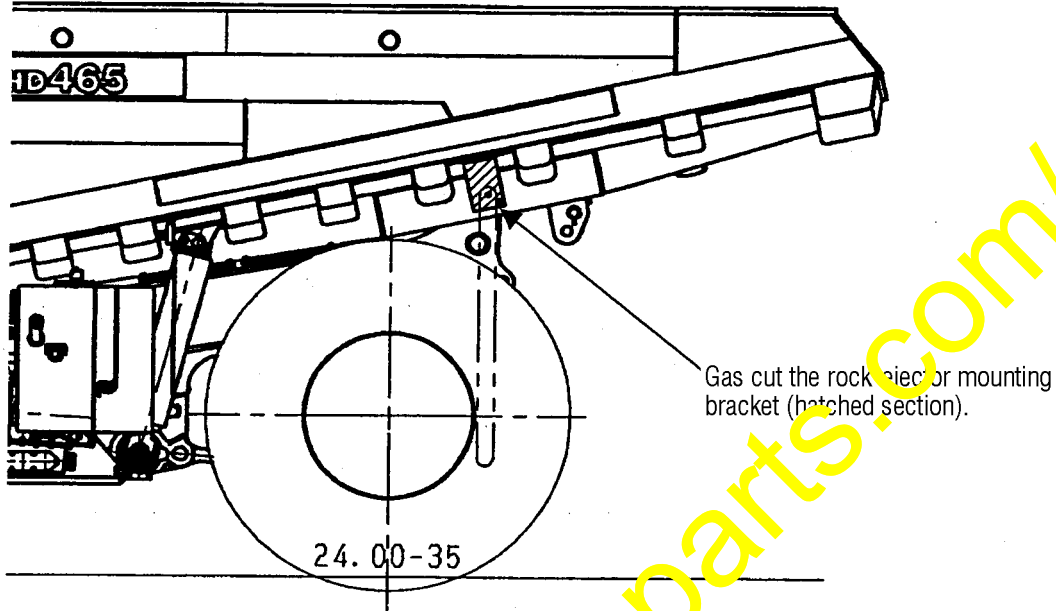


Fig. 5

- (5) In case of the CS spec. vehicles of the HD-65-7, gas cut the rock ejector mounting bracket on the LH side, and regarding the RH side bracket, remove the bolt tightened bracket, and after that, gas cut the bracket mounting seat.

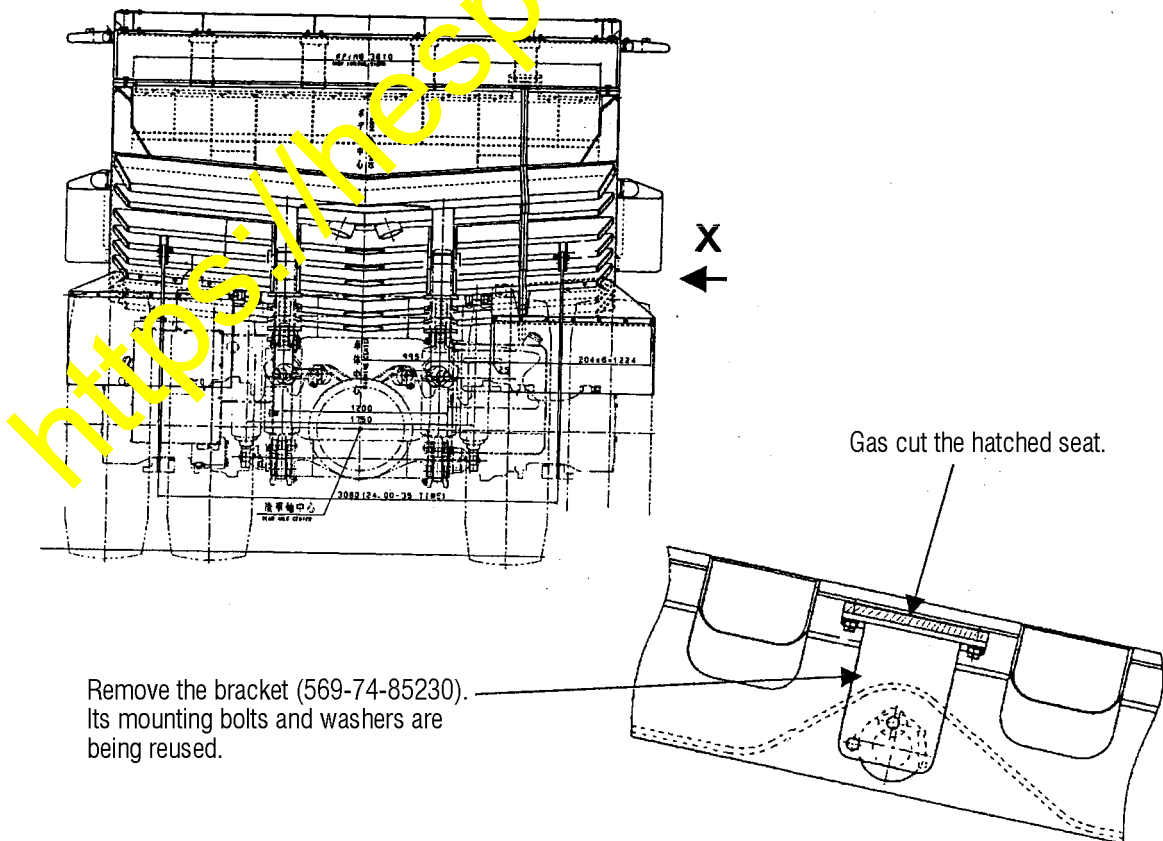


Fig. 6

X

- (6) Following the instructions given in Fig. 7 below, tack weld the rock ejector mounting bracket.

Lower the body, install the rock ejector (569-74-81622), and after checking the following dimensions, carry out final welding of the rock ejector mounting bracket.

- The clearance B between the rock ejector and the axle housing should be about 294 mm. (Refer to page 12.)
- The clearance between the rock ejector and the inner tire and the clearance between the rock ejector and the outer tire should be even. (Refer to page 12.)

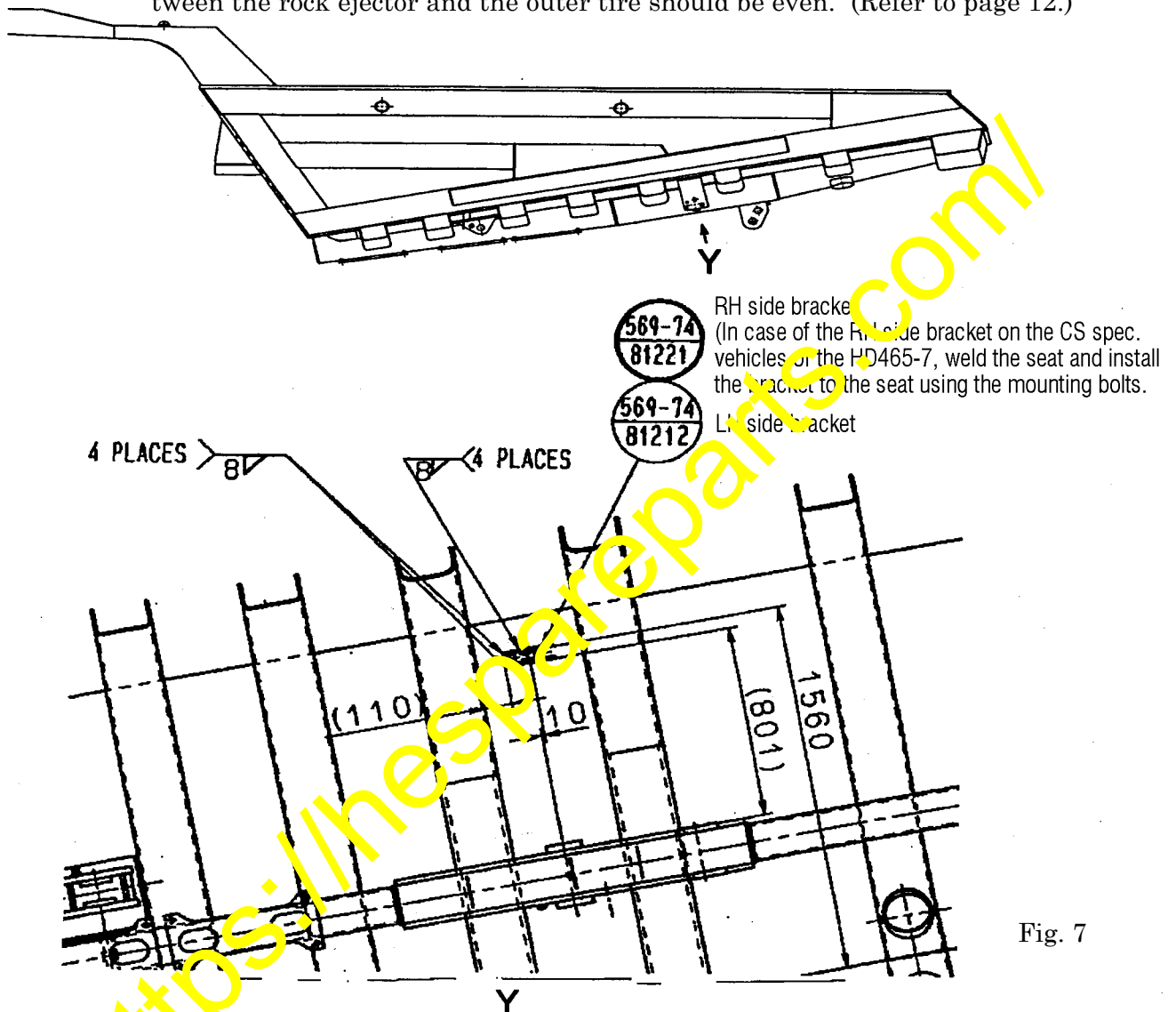


Fig. 7

- (7) Weld the RH side bracket mounting seat (569-35-13180) for the CS spec. vehicles of the HD465-7 onto the body. After welding the bracket mounting seat, install the bracket (569-74-85232) using the mounting bolts. (Refer to page 13.)

- (8) Install the rock ejector following the instructions given in the installation diagrams on pages 12 and 13.

At this time, pay attention to the direction of installation of the rock ejector.

←  
Front of the vehicle

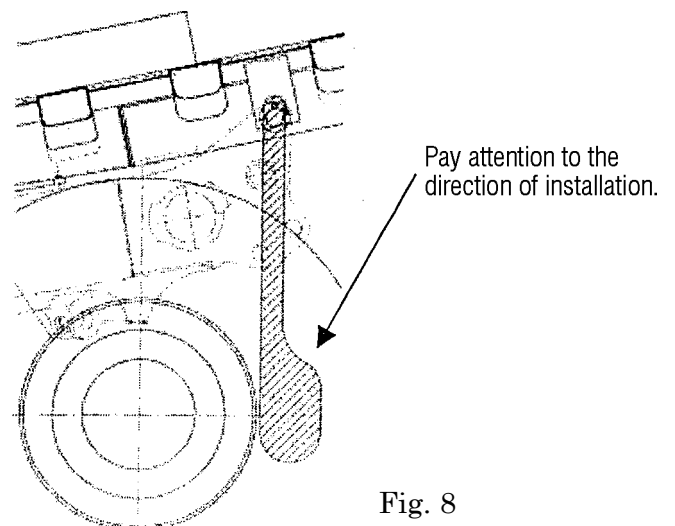
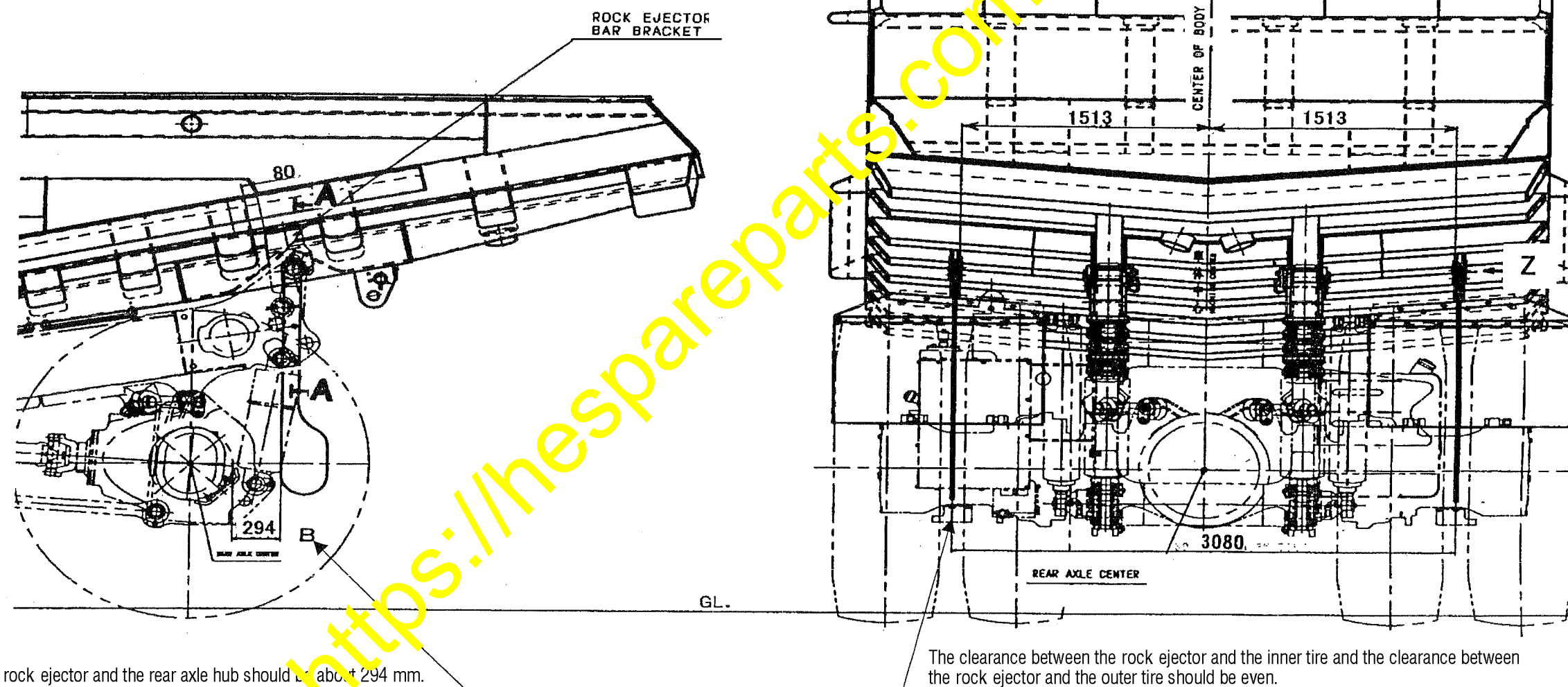


Fig. 8

Installation diagrams for the rock ejector and the mounting bracket (1/2)

- The clearance B between the rock ejector and the rear axle hub should be about 294 mm.
- The clearance between the rock ejector and the inner tire and the clearance between the rock ejector and the outer tire should be almost even.



The clearance B between the rock ejector and the rear axle hub should be about 294 mm.

The clearance between the rock ejector and the inner tire and the clearance between the rock ejector and the outer tire should be even.

Fig. 9

Installation procedure diagrams for the rock ejector and the mounting bracket (2/2)

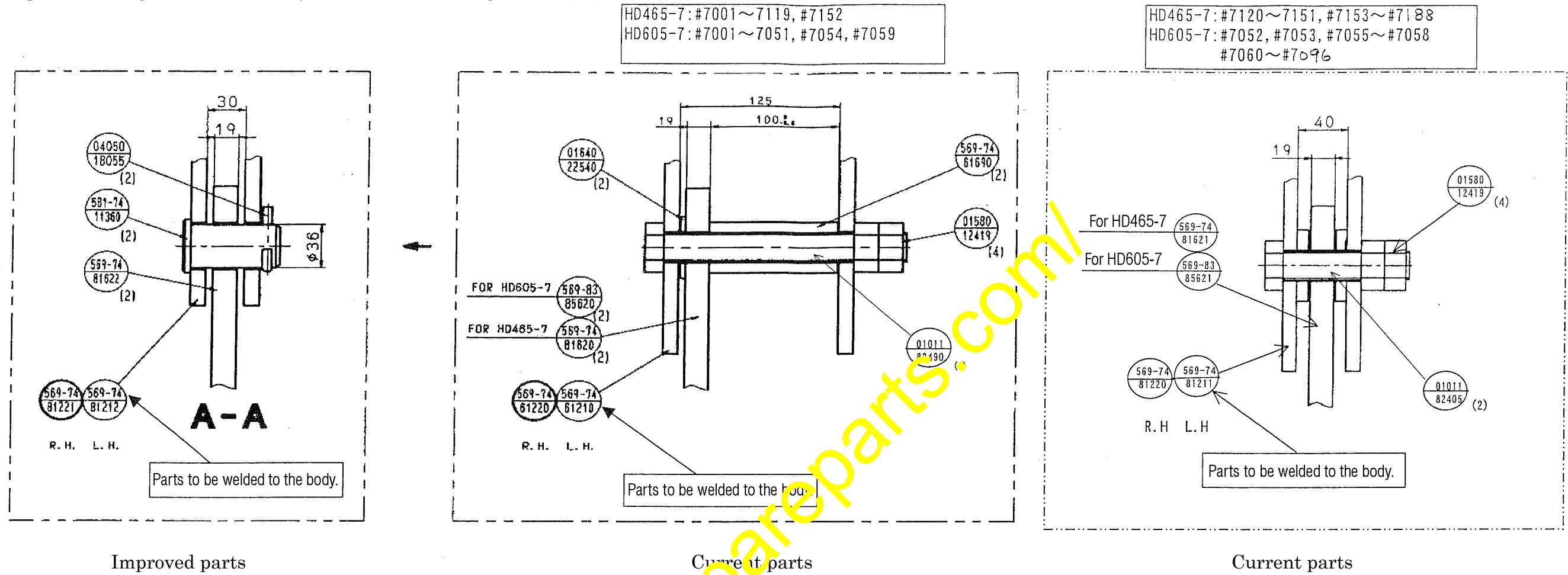


Fig. 10

Welding of the RH side rock ejector mounting bracket seat for the CS spec. vehicles of the HD465-7  
Weld the seat to the body following the instructions given in Fig. 11 below.

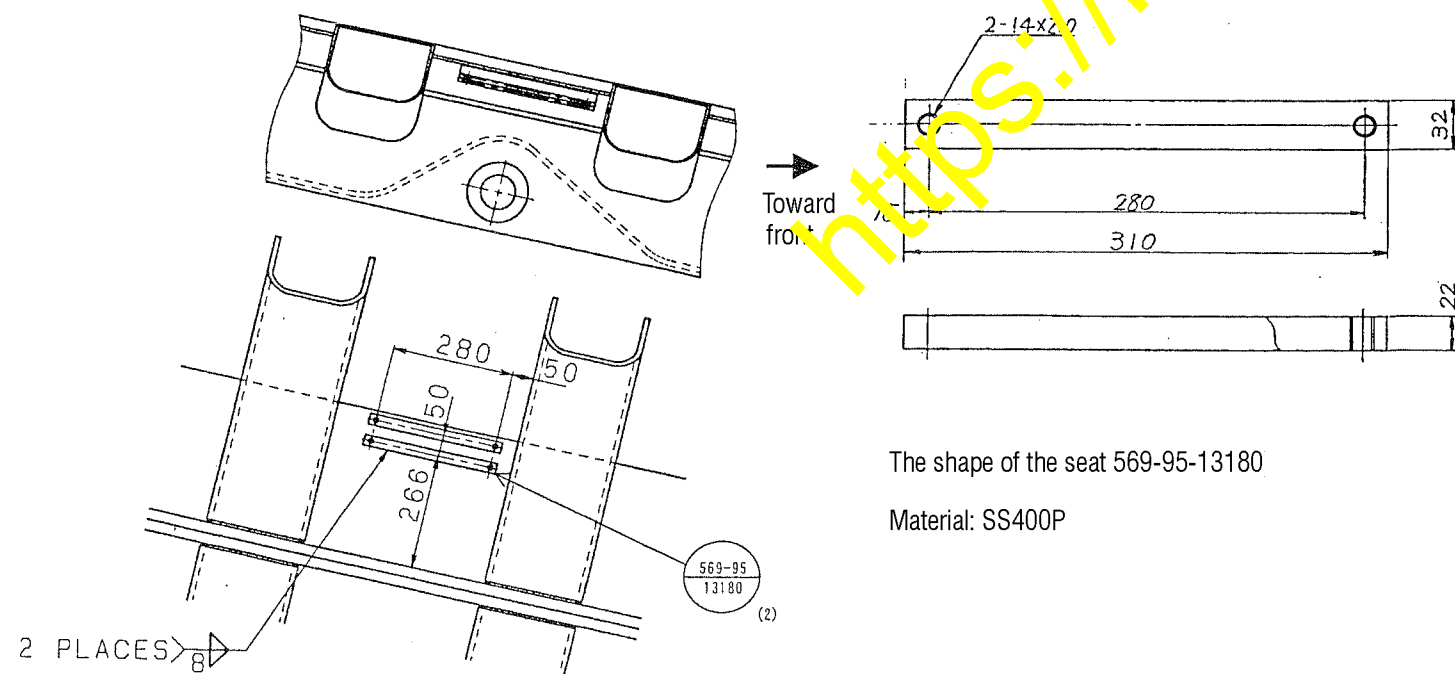
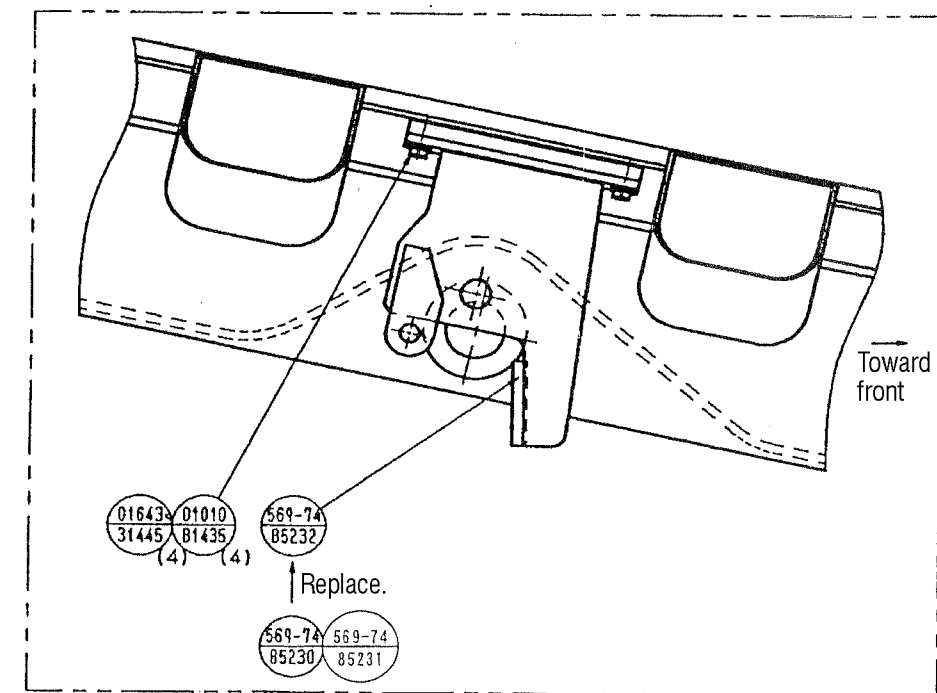


Fig. 11



View "Z" (RH side view of the CS spec. vehicles of the HD465-7)