# PARTS & SERVICE

REF NO.	AT00015			
DATE	Mar. 10, 2000			
(C)	Page 1 of 10			

**SUBJECT:** INTRODUCTION OF TOOL TO REMOVE TIRE FROM DUMP TRUCK

**PURPOSE:** To introduce new tire-removing tool for dump trucks

**APPLICATION:** HD325-6 Dump Trucks, Serial Nos. 5001 and up

> HD405-6 Dump Trucks, Serial Nos. 1001 and up HD465-5 Dump Trucks, Serial Nos. 4001 and up HD605-5 Dump Trucks, Serial Nos. 1001 and up HD785-3 Dump Trucks, Serial Nos. 2001 and up HD785-5 Dump Trucks, Serial Nos. 4001 and up HD985-5 Dump Trucks, Serial Nos. 1021 and up

FAILURE CODE: 3A1045

#### **DESCRIPTION:**

1. Introduction

This Service News will introduce reinforced tire removirg tool for dump trucks which has been newly registered as available.

This tool is meant to be used when it becomes him. Full to remove tires because of seizure of the wedge ring and, in comparison with be existing tool introduced in the Service Mate (SMP-475), the new tool works to naprove the working ease by increasing the pushing force of the hydraulic cylinder.

### 2. List of parts

No.	Part No.	Part Name	Q'ty	Remarks
	790-105-2600 (790-105-2400)	Hydraulic system (Hydraulic system)	1 (1)	Part number of a set
1	790-105-2410	Pump	1	
2	790-105-2420	Nipple	1	
3	790-105-2430	Gauge	1	
4	790-105-2440	Nipple	1	
5	790-105-2450	Joint	1	Component ports (ft)
6	790-105-2460	Coupling	6	Component parts of the 790-105-2600
7	790-105-2470	Nipple	6	
8	790-105-2480	Hose	3	L.Co.
9	790-105-2490	Elbow	2	
10	790-105-2300	Cylinder	3	
11	790-105-2710	Bracket	3	
12	790-105-2720	Spacer	3	Local fabrication drawing is
13	790-105-2730	Spacer	3	attached to this Serves News.
14	790-105-2740	Band	2	

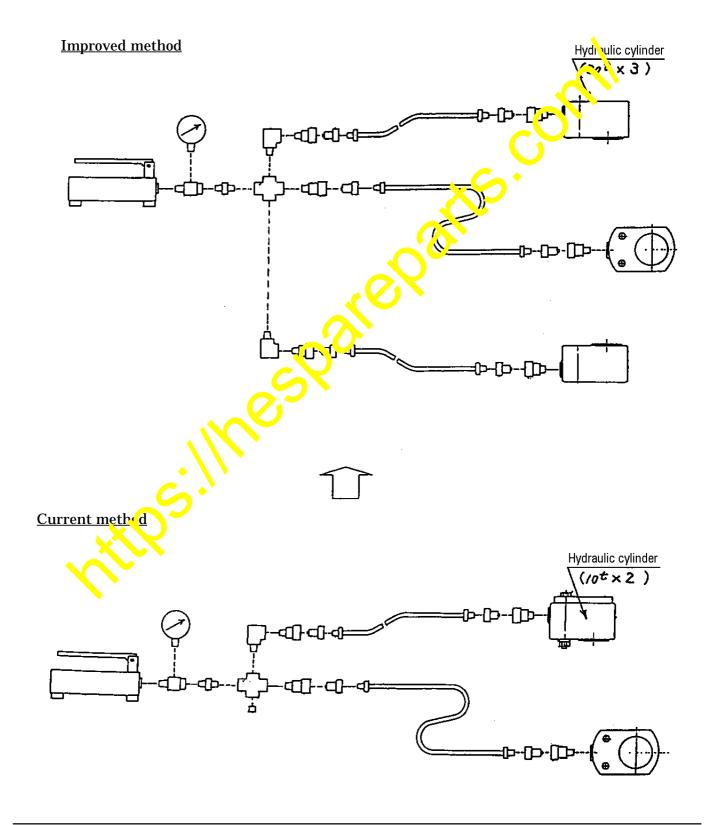
Note 1: 790-105-2600 includes in Item No. 1 part thru Item No. 10 part in the above listing.

Note 2: The Item No. 11 part thru Item No. 14 part in the above listing can be locally fabricated and they are not included in the above "set part No." of 790-105-2600. (However, they are individually available and can be ordered.)

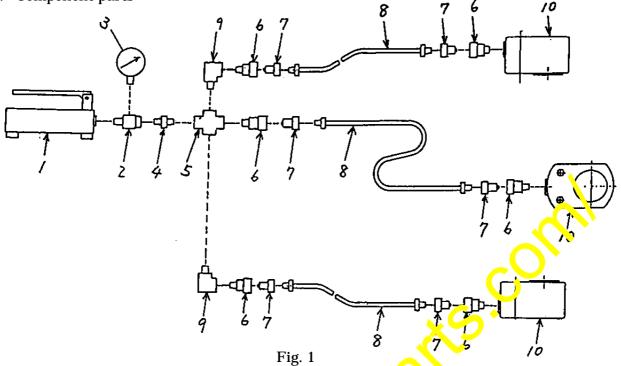
#### 3. Contents of the modification

From the previous method of using two units of hydraulic cylinders with the pushing force of 10 tons, the new method uses three units of hydraulic cylinders with increased pushing force of 20 tons each and, also, we improved the procedures so that the pushing force may be applied evenly.

Furthermore, we have supplemented brackets which work to fasten the hydraulic cylinders enabling a single person to make the work.



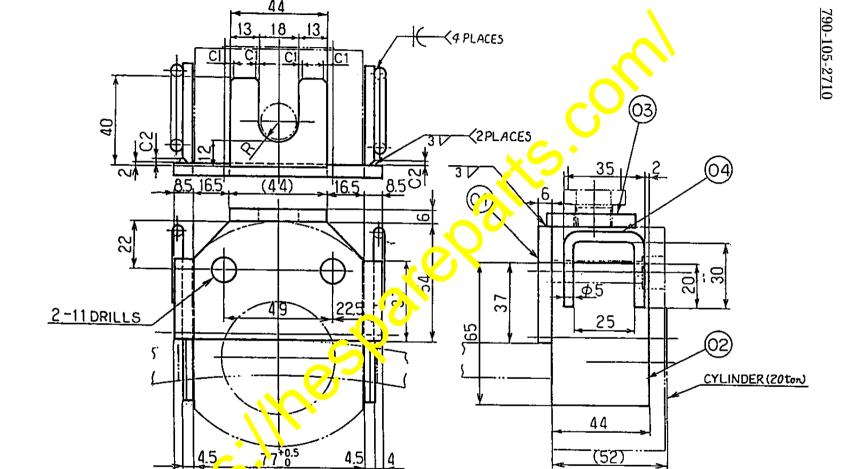
## 4. Component parts



No.	Part No.	Part Name	Q'ty	Manutarturer's part numbers	Remarks
	790-105-2600	Hydraulic system	1		
1	790-105-2410	Pump	<b>)</b>	P-392	
2	790-105-2420	Nipple	1	GA-1	
3	790-105-2430	Gauge	1	GP-1000-100	
4	790-105-2440	Nippl	1	FZ-1617	
5	790-105-2450	Joint	1	FZ-1613	
6	790-105-2460	Coupling	6	CR-400	
7	790-105-2472	Nipple	6	CH-604	
8	790-105-2483	Hose	3	H-926	
9	7 <mark>20-125-24</mark> 90	Elbow	2	FZ-1616	
10	790-135-2300	Cylinder	3	RSM200	20 ton spec.
11	790-105-2710	Bracket	3		To fasten the cylinder
12	790-105-2720	Spacer	3		To increase the pushing distance
13	790-105-2730	Spacer	3		To increase the pushing distance
14	790-105-2740	Band	2		To fasten the cylinder

The Item No. 11 part thru Item No. 14 part can also be fabricated locally. (Refer to respective drawings.)

Page 5 of 10



(52)

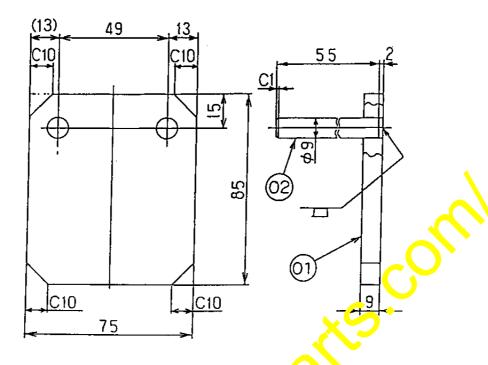
04	Ba	SS400B	2	0.015	<b>Ø15</b>
03	Plate	SS400F	1	0.06	$44 \times t6FB$
02	Plate	SS400F	2	0.10	$44 \times t4.5 FB$
01	Plate	SS400P	1	0.16	t6
SYM.	Part name	Material	Q'ty/Set	Mass (kg)	Remarks

94

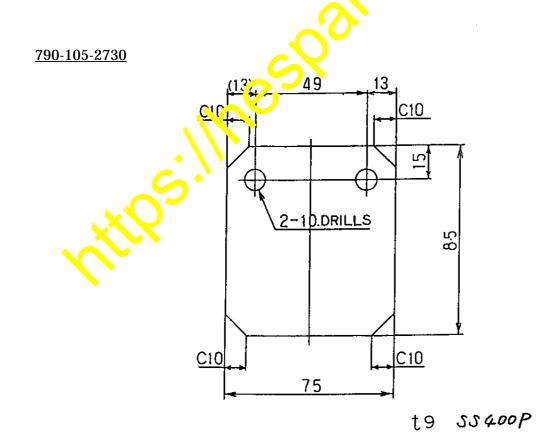
4.5

4.5

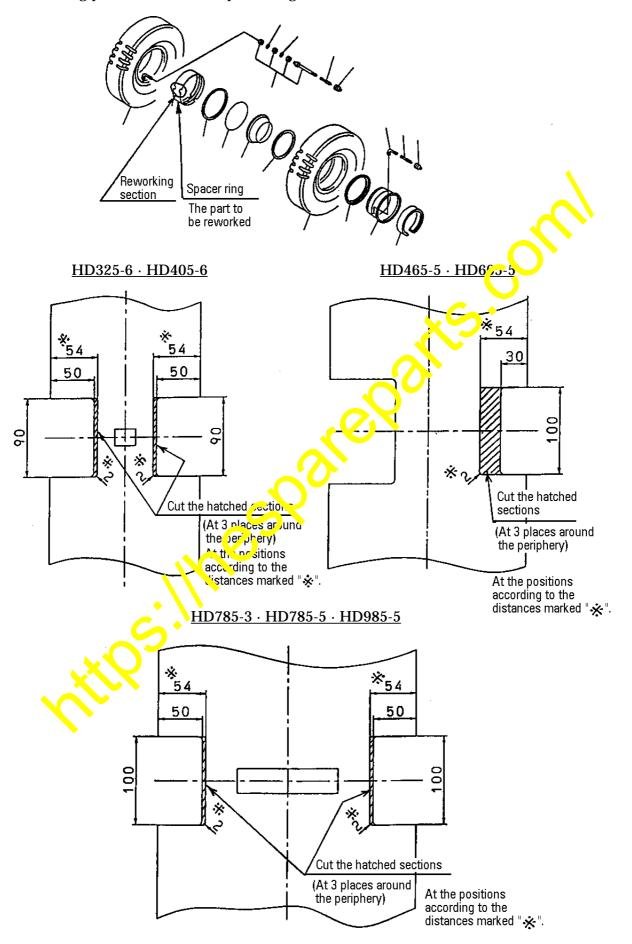
790-105-2720

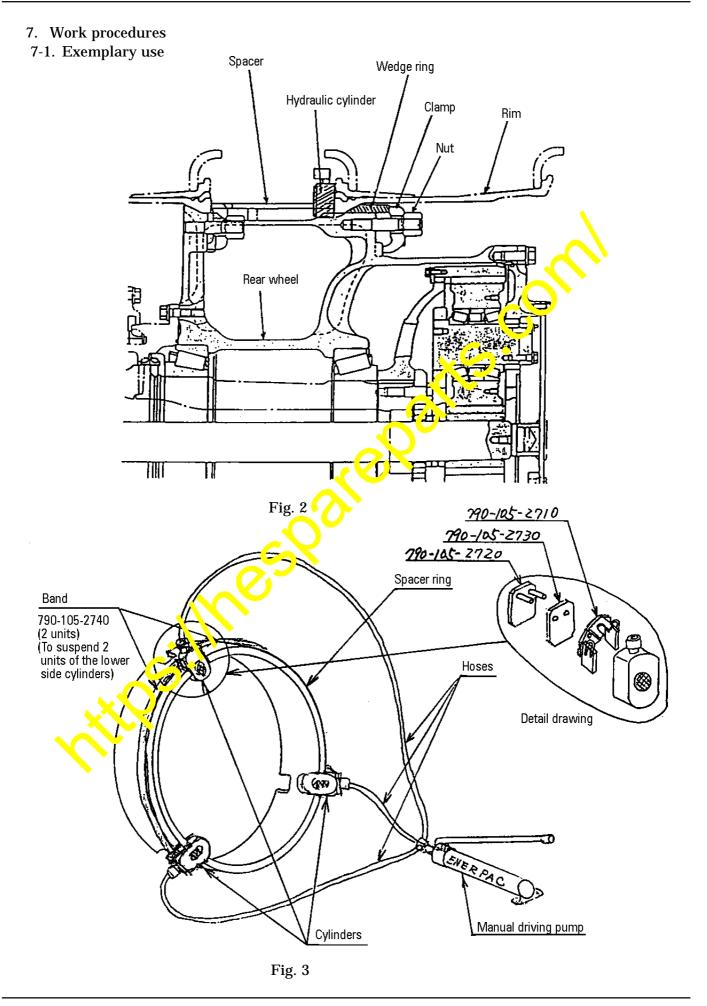


02	Bar	SS400B	2	(	0.03	7	φ9
01	Plate	SS400P	1	<u> </u>	1.43		t9
SYM.	Part name	Material	Q'ty/Set/	1V 3	S	(g)	Remarks



### 6. Reworking procedures for the spacer ring





#### 7-2. Work procedures

- 1) Park the vehicle on a level surface and jack up the rear axle.
- 2) Loosen the rear wheel clamp nuts and remove the clamps leaving 3 clamps around the periphery in the clamping state as they are.
- 3) Prepare the set of hydraulic pump and cylinders introduced in Fig. 1.
- 4) Hydraulic cylinder setting procedures are indicated in Fig. 2 and Fig. 3.
- 5) Engaging the hydraulic cylinders and brackets (790-105-2710), fasten the two lower side cylinders using the bands (790-105-2740) in order not to let these cylinders run out of the spacer groove.
- 6) Start the hydraulic pumps and push the rim out to the maximum stacke (11 mm) of the cylinder. Watching the pushing state, remove the remaining damps.

Note: After removing all the clamps, do not stay beside the tire under any circumstances.

If the tire collapses, you may suffer a physical injury.

- 7) After finishing the work according to the above Paragraph 6, separate the cylinder and retract the piston to set the spacer (790 165 2720) to the cylinder to push out the rim following the same procedures according to the above Paragraph 6).
- 8) If the wedge ring still does not corne cut after the procedure according to the above Paragraph 7), supplement the spacer (790-105-7230) to repeat the same procedures. (Hitting around the inner surfaces of the rim may facilitate separation.)
- 9) After all the above procedure the wedge ring will become easily removable.