

PARTS & SERVICE NEWS

REF NO.	AT99154
DATE	Nov. 1, 1999

Page 1 of 4

SUBJECT: INTRODUCTION OF IMPROVED L-CLUTCH PARTS OF TRANSMISSION ON 530M

PURPOSE: To introduce new L-clutch parts with improved wear resistance for use with the transmission assembly

APPLICATION: 530M Dump Trucks S/N 32628, A30003 THRU A30035

FAILURE CODE: 15J740

DESCRIPTION:

1. Introduction

This Service News will introduce new L-clutch parts with improved wear resistance for use with the transmission assembly on the 530M.

<https://hespareparts.com/>

2. List of parts

No.	Part No.	Part Name	Q'ty	Remarks
	562-15-00600	KIT	1	

The above kit 562-15-00600 consists of the following improved parts 1 thru 9. When effecting the modification and ordering the improved parts, quote this kit number.

1	562-15-21171 (562-15-21170)	Plate (Plate)	1 (1)	} Interchangeable in the direction of "New → Current" in a set of parts 1 & 2.
2	01011-61870 (01011-61860)	Bolt (Bolt)	17 (17)	
3	562-15-22711 (562-15-22710)	Plate (Plate)	3 (3)	} Interchangeable in the direction of "New → Current" in a set of parts 1 & 3.
4	562-15-22960 (562-15-22790)	Piston (Piston)	1 (1)	
5	562-15-22970	Plate	1	
6	175-15-59240	Seal Ring	1	
7	175-15-59250	Seal Ring	1	

Although the part numbers remain unchanged, to minimize oil leakage, always replace these seal rings 6 & 7 with new parts whenever reassembling them.

8	562-15-22860	Disc	4	Quantity per L-clutch is shown. Quantity including other clutches: 8 pcs/machine
---	--------------	------	---	--

Although the part number of the discs 8 remains the same, replace them with new parts when deemed necessary referring to the "Guidance for Reusable Parts".

9	566-15-11260	Pin	2	
---	--------------	-----	---	--

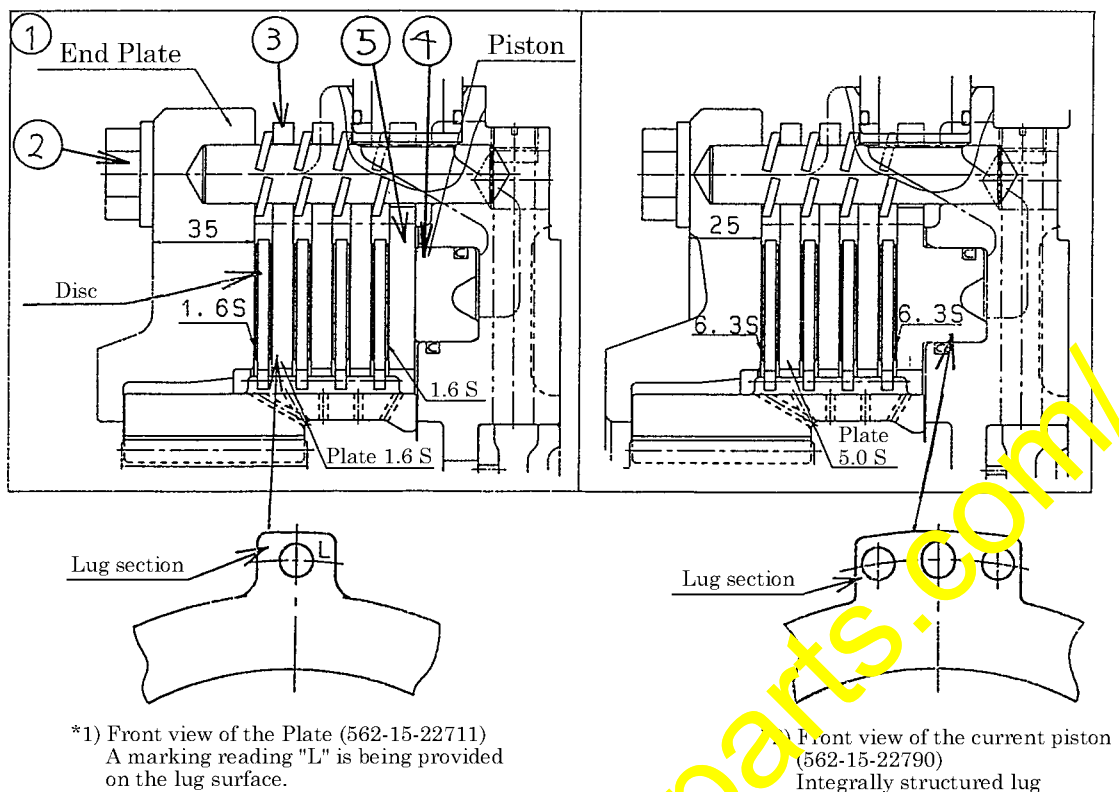
Although the part number of the pins 9 remains the same, prepare them as spare parts since they may not come off from the current plates "562-15-21170" or they may be damaged while removing from the current plates.

3. Contents of the modification

When the machine is used in work sites where "shift hunting" (automatic gear shifting) occurs and speed changes must be made frequently, the L-clutch discs, may wear quicker. To solve this problem, we have made the following improvements to enhance the wear resistance of the L-clutch discs.

- 1) We have increased the thickness of the end plate ① to increase its rigidity thereby to improve distribution of the bearing pressure imposed on the disc.
Relevant to this modification, the length of the bolt ② has been duly changed.
- 2) To increase the wear resistance of the disc facing, surface coarseness of the mating parts of the discs (end plate ①, plates ③ and ⑤) has been improved.
- 3) To improve the bearing pressure distribution of the discs, the structure of the piston has been changed from the integral-lug structure [*2)] to separate-plate structure. Pursuant to this change, supplementation of the plate ⑤ has become necessary.

No	Parts Name	New structure ←			→ Current structure		
		Part numbers	Q'ty	Identification methods	Part numbers	Q'ty	Identification methods
①	Plate	562-15-21171	1	<ul style="list-style-type: none"> • Thickness : 35 mm • Surface coarseness : 1.6 S • The part number is being stamped. 	562-15-21170	1	<ul style="list-style-type: none"> • Thickness : 25 mm • Surface coarseness : 6.3 S • The part number is being embossed.
②	Bolt	01011-61870	17	Under head length : 170 mm	01011-61860	17	Under head length : 160 mm
③	Plate	562-15-22711	3	<ul style="list-style-type: none"> • Surface coarseness : 1.6 S • A marking reading 'L' is being provided on the lug surface. *1) • Thickness : 7 mm 	562-15-22710	3	• Surface coarseness : 5.0 S
④	Piston	562-15-22960	1	• Separate-plate structure	562-15-22790	1	<ul style="list-style-type: none"> • Integral-lug structure *2) • Surface coarseness: 6.3 S
⑤	Plate	562-15-22970	1	<ul style="list-style-type: none"> • Surface coarseness: 1.6 S • Thickness: 9 mm 	—	—	—



4. Replacement procedures

- Make the replacement work referring to the Section "Disassembly and Assembly of Transmission Assembly" in the Shop Manual.
- Although the part numbers of the piston seal rings "175-15-59240" and "175-15-59250" remain the same, always replace these piston seal rings with new parts when making the reassembly work to suppress leakage quantity of oil. * Although the part number of the discs "562-15-22360" remains the same, replace them with new parts when deemed necessary referring to the "Guidance for Reusable Parts".
- Although the part number of the pins "566-15-11260" remains the same, prepare them as spare parts since they may not come off from the current plates "562-15-21170" or they may be damaged while removing from the current plates.