

INSTALLATION MANUAL

REF NO.	BT96040
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SUBJECT: CHANGE IN TORQFLOW ASS'Y FOLLOWING SNAP RING CLEARANCE CHANGE ON WA800

PURPOSE: To introduce improved parts to prevent dropping off of the turbine bearing of the torque converter of WA800-1 and WA800-2 wheel loaders.

APPLICATION: WA800-1, 2 Torque Converter, Serial Nos. up to 10716
WA900-1 Torque Converter, Serial Nos. up to 10004

DESCRIPTION:

1. Introduction

With the WA800-1 and WA800-2 wheel loaders, when the speed is shifted down beyond the speed range of each speed stage, the revolution of the outer ring of the turbine bearing (means the engine revolution) rises and the snap ring of the turbine bearing may drop off due to centrifugal force.

Will introduce the relevant parts with improved structures to prevent dropping off of the snap ring when the speed is shifted down as described above.

2. List of parts

Part No.	Part Name	Q'ty	Remarks
427-15-01004 (427-15-01003)	Torqueflow ass'y	1	Applicable to the STD specification vehicles.
711-56-31003 (711-56-00011)	Torque converter ass'y	1	
711-56-31352 (711-56-31351)	Shaft	1	
711-56-31212 (711-56-31211)	Case	1	
427-15-01041 (427-15-01040)	Torqueflow ass'y	1	Applicable to the extreme cold weather specification vehicles.
711-56-32001 (711-56-00050)	Torque converter ass'y	1	
711-56-31352 (711-56-31351)	Shaft	1	
711-56-31212 (711-56-31211)	Case	1	

2. Contents of the modification

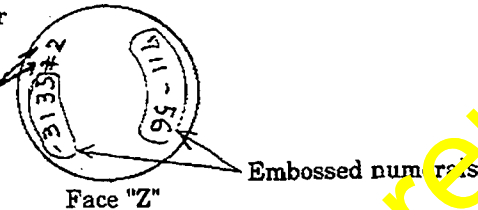
When the speed is shifted down beyond the speed range of each speed stage, the revolution of the outer ring of the turbine bearing (means the engine revolution) rises and the snap ring of the turbine bearing may drop off due to centrifugal force. (For example when the speed is shifted down from F3 → F1 skipping a stage)

To prevent occurrences of such accidents, the shape of the input shaft (02) and casing (03) according to (04) and (05) to reduce the clearance in the outer peripheral direction and in the axial direction, thus preventing dropping off of the snap ring even under high speed revolutions.

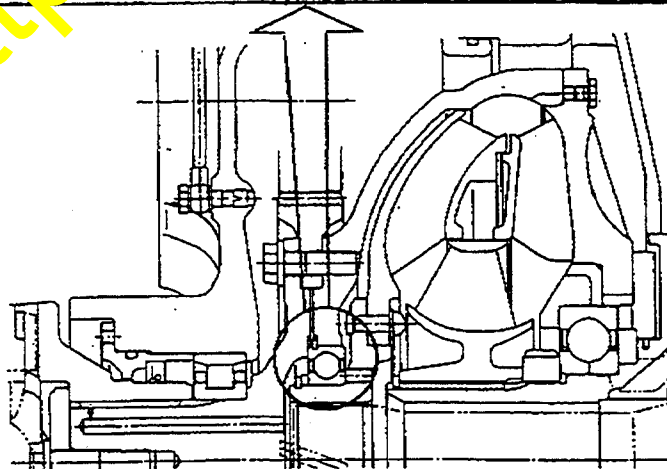
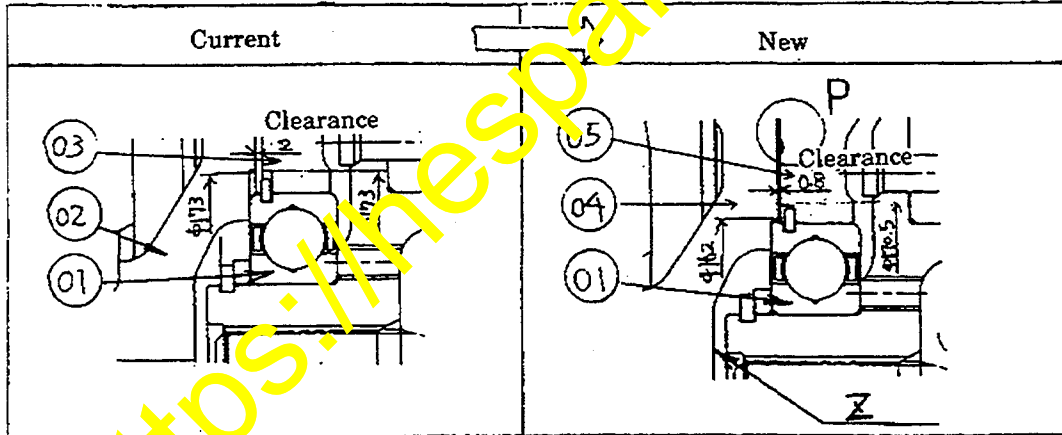
- Identification method of the new and current parts -

- Identification method of the new and current input shafts (between (02) and (04))
The new part number (711-56-31353) is marked on the face "Z" according to the schematic diagrams below by combination of embossing and stamping.
- Identification method of the new and current casings (between (03) and (05))
An identifying groove is provided at the section "P" according to the drawing below (with the (05) part only)

A portion of the embossed current part number is ground off using a grinder and correction numerals are stamped to constitute the new part number.



The identifying groove being provided at the section "P".



4. Modification procedures

Refer to the section on "Disassembly and Assembly of the torque converter" in the Shop Manual.

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