

PARTS & SERVICE NEWS

REF NO. AA99062

DATE March 12, 1999

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SUBJECT: INTRODUCTION OF IMPROVED TRANSMISSION CONTROL VALVE

PURPOSE: To introduce a new spool which works to enhance the operation feeling of the transmission cutoff pedal

APPLICATION: WA300-3 Wheel Loaders, S/N 50001 thru 50999, 53001 thru 53174, 53176 and up
 WA320-3 Wheel Loaders, S/N 50001 and up
 WA320-3L Wheel Loaders, S/N A30458 and up
 WA350-3 Wheel Loaders, S/N 50001 and up
 WA380-3 Wheel Loaders, S/N 50001 and up

FAILURE CODE: 159250

DESCRIPTION:

Introduction:

We have modified the spool shape for the transmission control valve on standard vehicles of the wheel loaders to shorten the time required for discharging the oil inside the clutch circuit.

Thanks to this modification, oil discharge inside the clutch circuit has become more accurate and the desired clutch engagement can now be smoothly acquired even when the cutoff pedal is activated in shorter intervals.

This **PARTS & SERVICE NEWS** will introduce details of the new spool which works to enhance the functional reliability as aforementioned.

LIST OF PARTS

Part No.	Part Name	Qty.	Remarks
714-12-16440 (714-12-16410)	Valve F&R (Valve F&R)	1 (1)	
02720-10104	Plug	1	Consumable parts to renew when replacing the spool
714-07-16960	Gasket	1	

Contents of the modification

We have modified the shape of the forward-reverse changeover spool located inside the transmission control valve to shorten the time required for discharging the oil inside the clutch circuit.

Thanks to this modification, oil discharge inside the clutch circuit has become more accurate and the desired clutch engagement can now be smoothly acquired even when the cutoff pedal is activated in shorter intervals owing to the decrease in the initial hydraulic pressure necessary when make re-engagements of the clutches.

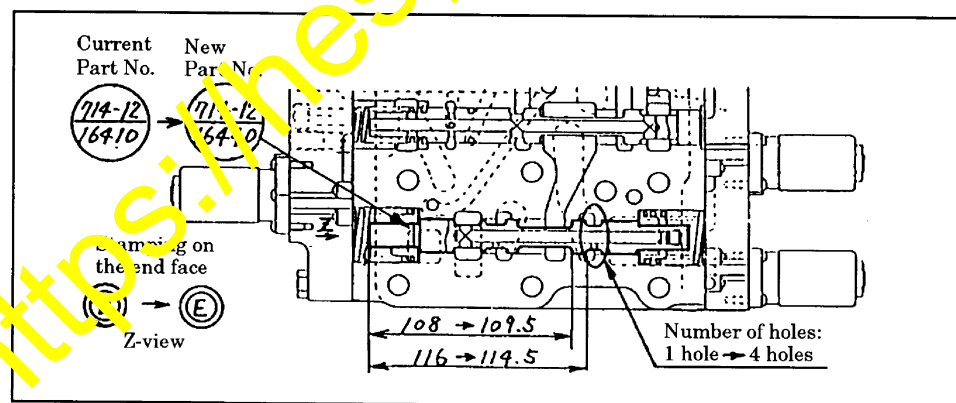
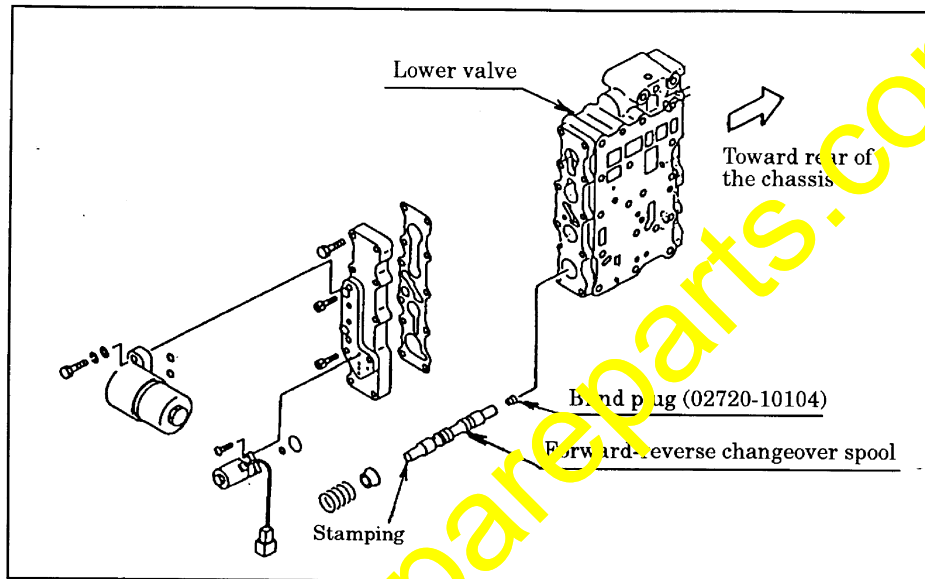


Fig. 2 - Contents of the modification made with the forward-reverse changeover spool

Assembly procedures

Replace the forward-reverse changeover spool referring to Section “Disassembly and Assembly of Transmission Control Valve” in the Shop Manual.

Precautions when replacing the spool

- (1) *Do not apply sealant or adhesive to the blind plug (02720-10104) as is indicated in Fig. 1. (Do not use the sealant or adhesive since such sealant or adhesive may clog the orifice of the valve circuit to cause malfunctioning)*
- (2) *Pay attention to the direction of installation for the forward-reverse changeover spool and always check the stamping before inserting the spool.*

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