

PARTS & SERVICE NEWS

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SUBJECT: NEW MAIN RELIEF VALVE

PURPOSE: To introduce a new main relief valve, replacing the current main relief valve includes installation procedure.

APPLICATION: WA700-1 Wheel Loaders, Serial Nos. 10001 thru 10095
WA800-1 Wheel Loaders, Serial Nos. 10001 thru 10065
WA800-2 Wheel Loaders, Serial Nos. 10501 thru 10640

DESCRIPTION:

1. Introduction

A new relief valve is released to overcome the problem of inner poppet/bore seizure due to abrasion within the sleeve. This phenomena may occur intermittantly resulting in low system pressure at low engine speed, the pressure will not increase when adjusted, and longer work equipment cycle times. Furthermore the condition cannot be improved by disassembling and cleaning the relief valve.

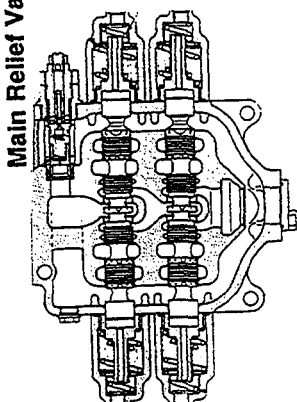
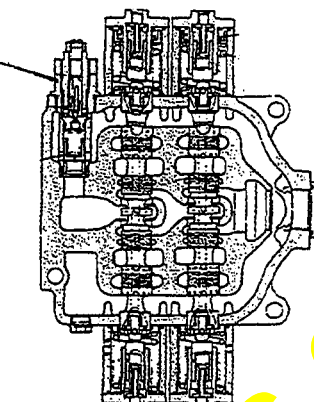
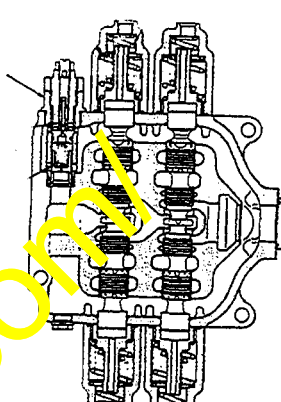
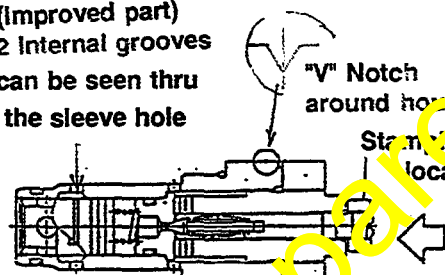
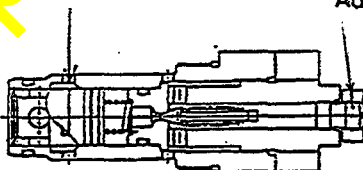
If this unusual occurrence is exhibited, proceed with the modification as explained in this **PARTS & SERVICE NEWS**.

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2. Repair parts list

Part No.	Part Name	Q'ty	Purpose of part	Remarks
709-12-12402 (709-12-12401)	CONTROL VALVE (CONTROL VALVE)	1 (1)	} Reworked	WA700
709-12-12801 (709-12-12800)	CONTROL VALVE (CONTROL VALVE)	1 (1)		WA700 Arctic district spec.
709-12-11804 (709-12-11803)	CONTROL VALVE (CONTROL VALVE)	2 (2)		WA800-2
709-12-11407 (709-12-11406)	CONTROL VALVE (CONTROL VALVE)	2 (2)		WA800-1
709-12-12901 (709-12-12900)	CONTROL VALVE (CONTROL VALVE)	2 (2)		WA800-2 Arctic district spec.
709-12-11505 (709-12-11504)	CONTROL VALVE (CONTROL VALVE)	2 (2)		WA800-1 Arctic district spec.
709-10-53103 (709-10-53102)	RELIEF VALVE (RELIEF VALVE)	1 (1)	} Replacement	WA700
709-10-57602 (709-10-57601)	RELIEF VALVE (RELIEF VALVE)	1 (1)		WA700 Arctic district spec.
709-10-52903 (709-10-52902)	RELIEF VALVE (RELIEF VALVE)	2 (2)		WA800
709-10-57303 (709-10-57302)	RELIEF VALVE (RELIEF VALVE)	2 (2)		WA800 Arctic district spec.

3. Modification item - Modify relief valve. (See the following for details)

MODEL	WA700	WA800-1	WA800-2
Control valve ass'y			
Improved parts (relief valve)	<p style="text-align: center;">< New > (Current)</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>(Improved part) 2 Internal grooves can be seen thru the sleeve hole</p>  <p>"V" Notch around housing Stamping location</p> </div> <div style="text-align: center;"> <p>1 Internal groove can be seen thru the sleeve hole</p>  <p>Adjusting Screw</p> </div> </div>		

4. Modification procedure

(1) Before starting work

▲ Stop the machine on a level ground, attach safety bar on the frame, lower the bucket on the ground, install support on the lift arm, stop the engine, apply parking brake and put blocks under the tires. (See "Removal/Installation" in the Shop Manual)

▲ Loosen oil filler cap to release pressure in the hydraulic tank and operate the control lever of work equipment 2 to 4 times to release remaining pressure in the piping.

- (2) Remove control valve inspection cover on front frame.
- (3) Replace current relief valve with improved one.
Tightening torque shall be 275-368 Nm (28-37.5 kgm).
- (4) Add hydraulic oil to specified level through the oil filler of the hydraulic tank.
- (5) Re-attach inspection cover on front frame.

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