PARTS & SERVICE NEWS

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Page 1 of 4

SUBJECT:

Repair of main relief valve of control valve

PURPOSE:

To introduce modification procedure to eliminate pressure setting drops

with the main relief valve of the control valve assembly

APPLICATION:

WA700-1 Wheel Loaders, S/N 10001 thru 10135

WA700-1L Wheel Loaders, S/N A20001 thru A20007

WA800-1 and WA800-2 Wheel Loaders, S/N 10001 thru 10065, 10501

thru 10729, 10731 thru 10733, 10735 and 1073<mark>6</mark>

WA800-2L Wheel Loaders, S/N A20001 thru A20012

WA900-1 Wheel Loaders, S/N 10001 thru 10006, 10003, 10009, 10700

and 10703

WA900-1L Wheel Loaders, S/N A20001 thru 120008 and up

FAILURE CODE:

P14050

DESCRIPTION:

Introduction:

Owing to use of imperfect internal part for production of the main relief valve of the control valve assembly, the pressure petting may drop to cause functional failures. When the work equipment speed slows down, or when the relieving pressure drops as the hydraulic oil temperature rices, eliminate the failure by implementing the modification introduced in the PARTS & SERVICE NEWS.



2. List of parts

Part No.	Part Name	Purpose of part	Q'ty	Remarks
709-10-52903	Relief valve		2	Replace both F. and R. relief valves. WA800/900 Standard
709-10-53103	Relief valve	Paulacament	1	WA700 Standard
709-10-57303	Relief valve	Replacement	2	WA800 Extreme cold weather spec. vehicles
709-10-57602	Relief valve	J	1	WA700 Extreme cold weather spec. vehicles
709-12-11804	Valve ass'y		2	WA800 Standard, after the mirer change. WA90 Su ndard.
709-12-12901	Valve ass'y		2	V'A80. Extreme cold reather spec., after the moor change.
709-12-11407	Valve ass'y		2	WA800 Standard, before the minor change.
709-12-11505	Valve ass'y			WA800 Extreme cold weather spec., before the minor change.
709-12-12402	Valve ass'y		1	WA700 Standard
709-12-12801	Valve ass'y		1	WA700 Extreme cold weather spec.

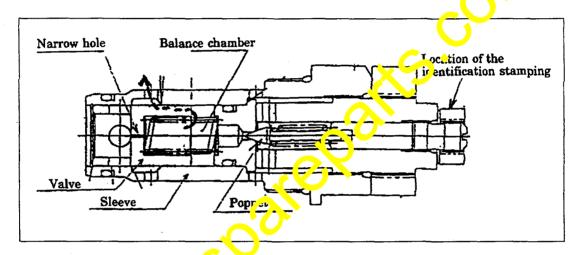
3. Contents of the modification

Replace the relief valve assemblies with the non-defective new assemblies.

With the WA800 and WA900, replace two relief valve assemblies at the same time.

2) Stamping on non-defective relief valves

Vehicle models	Specifications	Part numbers	Stamping on the current valve	Stamping on the new valve
WA800-WA900	Standard	709-10-52903	V3	V4
WA800	Extreme cold weather	709-10-57303	W3	w 4
WA700	Standard	709-10-53103	AA3	\^\^A4
WA700	Extreme cold weather	709-10-57602	AJ2	AJ3



Modified valve numbers

Vehicle models	Specifications	Part numbers	No.
WA800, after the n inor change & WA900	Standard	709-12-11804	CMN7Z-001 –
WA800, a ter the minor change	Extreme cold weather	709-12-12901	CMN81-001Y -
WASCO, before the	Standard	709-12-11407	CMG81-001 -
W. 800, before the ninor change	Extreme cold weather	709-12-11505	CMN81-001Y -
WA700	Standard	709-12-12402	CMU7Y-002 -
WA700	Extreme cold weather	709-12-12801	CMP81-001 -

Definition of the valve numbers

Stands for Stands for the type. production number

year/month.

Serial

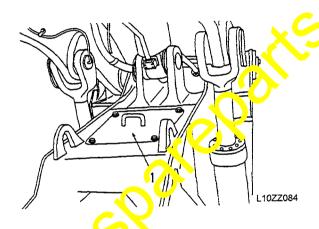
- Modification procedures
 - (1) Before starting the modification work



A Park the vehicle on a level surface, set the safety bar to the frame, land the bucket, stop the engine and pull up the parking brake before inserting tire blocks underneath the tires.

Loosen the oil filler port cap to release the internal pressure from inside the hydraulic tank and operate the steering wheel and the work equipment control levers for 2 to 3 times each to release residual pressure inside respective piping.

(2) Remove the inspection hole cover (1) located on the front frame.



- (3) Replace the relief rall is rith the new non-defective valves. Main relie: valve assembly: 33 ± 4.5kgm
- (4) Refill hydraulic cil.
 - Refil hydraulic oil through the oil filler port of the hydraulic tank up to the prescribed leve..
 - before starting the engine, bleed air from the steering pump, switch pump and work equipment pump.
 - * Refer to the Chapter "Inspection and Adjustment" in the Shop Manual when bleeding air from the above pumps.
 - ★ Start the engine to circulate hydraulic oil through the circuits and re-check the oil level.
- (5) Install the inspection hole cover (1) back to its original position on the front frame.