

PARTS & SERVICE NEWS

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SUBJECT: IMPROVEMENT HYD. OIL COOLER PIPING ON WA800/WA900-1

PURPOSE: To introduce crack occurrence preventive modification procedures for the hydraulic oil cooler piping on WA800-1/2 and WA900-1 wheel loaders.

APPLICATION: WA800-1 Wheel Loader S/N 10001 thru 10726 (Except No. 10536)
WA800-2L Wheel Loader S/N 10001 thru 10726 (Except 10536) & A20001 thru A20016
WA900-1L Wheel Loader S/N 10001 thru 10006 (Except 10003) & A20001 and A20002

DESCRIPTION:

1. Introduction

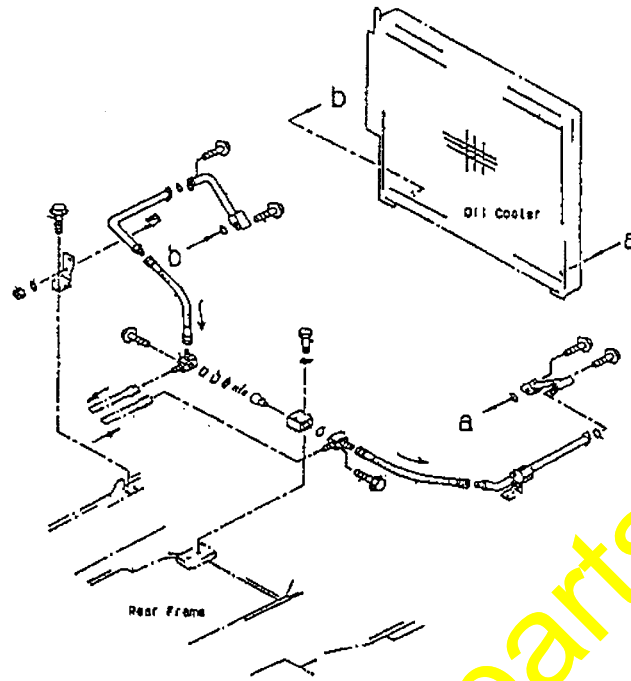
With the WA800 and WA900 wheel loaders, the peak internal pressure occurring in the hydraulic circuit connecting to the inlet of the hydraulic oil cooler may cause cracks in the header root section of the piping for the air-cooling type hydraulic oil cooler, leading finally to an oil leakage failure. To prevent occurrence of such a failure, execute the modification introduced in this Service News.

2. List of parts

Part No.	Part Name	Purpose of parts	Q'ty	Remarks
427-62-15770 (427-62-15470)	Block (Block)	Replacement	1 (1)	Consumable part (Replace this part when making this modification.)
07000F2060 (07000F2060)	O-ring (O-ring)		1 (1)	
427-62-15780	Bracket	Addition	1	
19M-60-12720	Cup		3	
01435-01025	Bolt		3	
01435-01035 (01435-01025)	Bolt (Bolt)	Replacement	2 (2)	
427-62-16270	Bracket	Addition	1	
427-62-15790	Bracket		1	
427-62-15890	Bracket		1	
01643-31232	Washer	Addition	8	
01010-81225	Bolt		8	
07102-21426	Hose		1	
01573-22306	Seat		4	

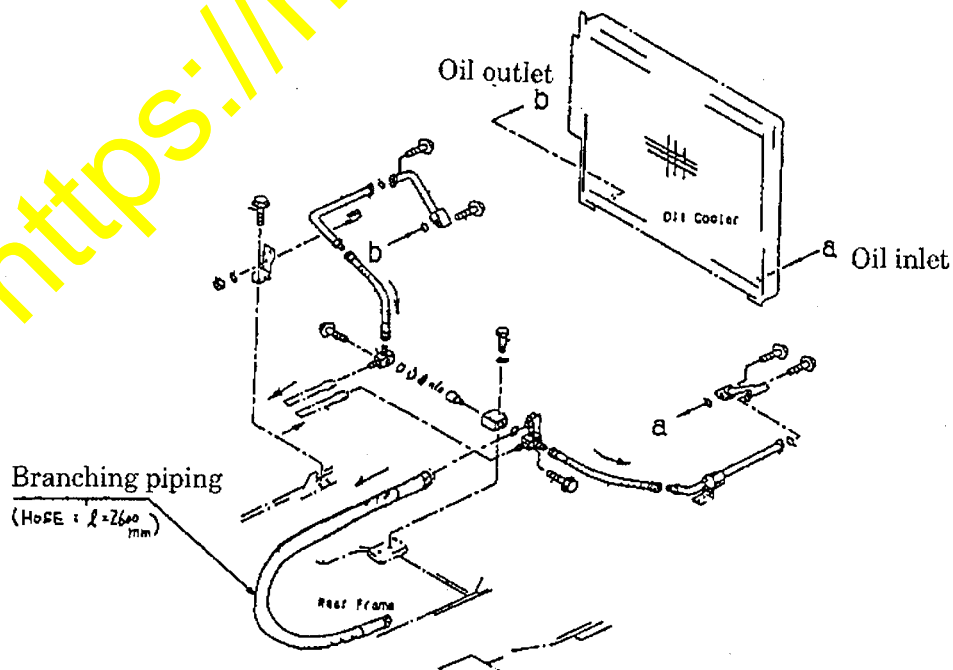
3. Contents of the modification

Current



New

- Supplement a branching piping to the hydraulic circuit connecting to the inlet port of the hydraulic oil cooler to absorb peak internal pressure occurring in this section when steering is changed over, thus preventing damage to the oil cooler.

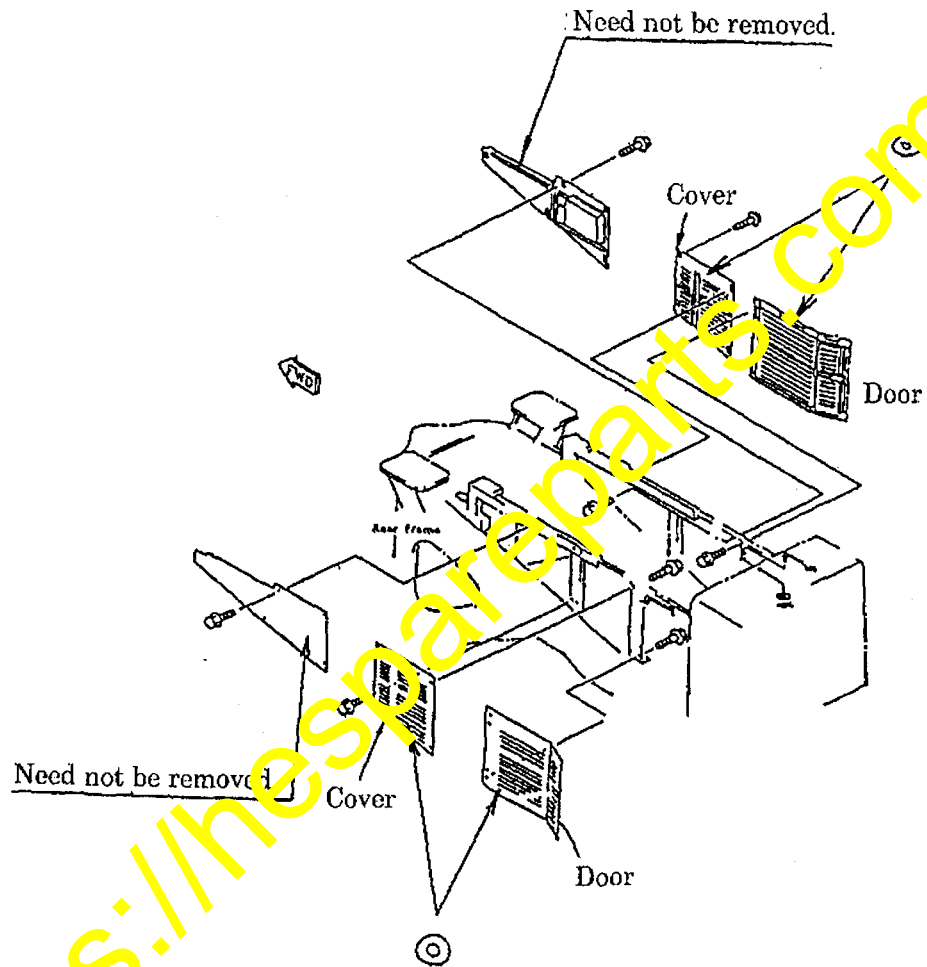


4. Modification procedures

(1) Removing the outer covers

Remove covers and doors marked "⊙" in the schematic diagram below.

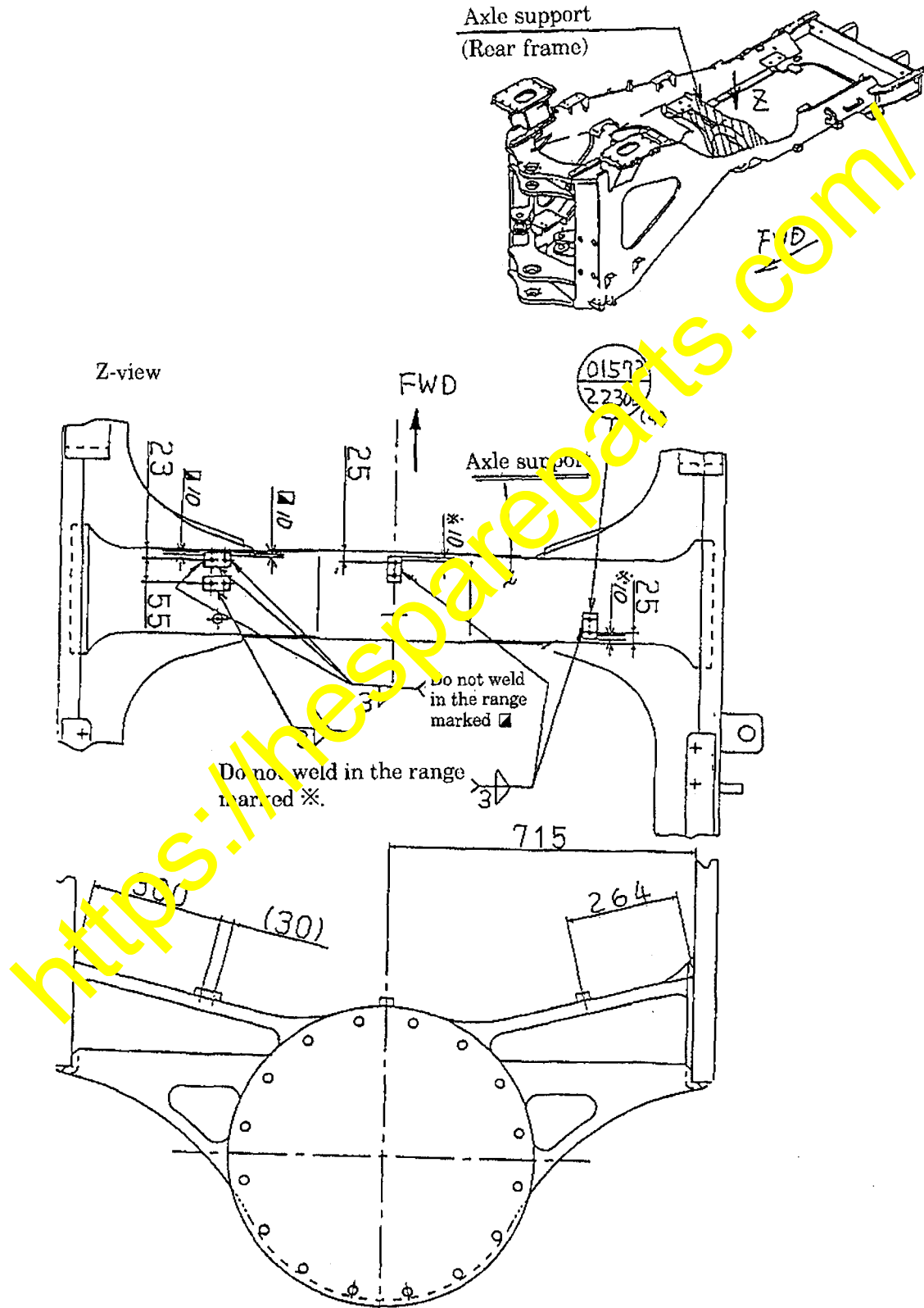
(Note) Carefully preserve all the removed parts since they will be reinstalled after completing installation of the branching piping.



(2) Reworking

Weld four seats (01573-22306) at the designated positions on the upper surface of the axle support namely, the hatched section in the schematic diagram below.

(Note) After finishing this rework, apply touch-up painting over the weld joints.

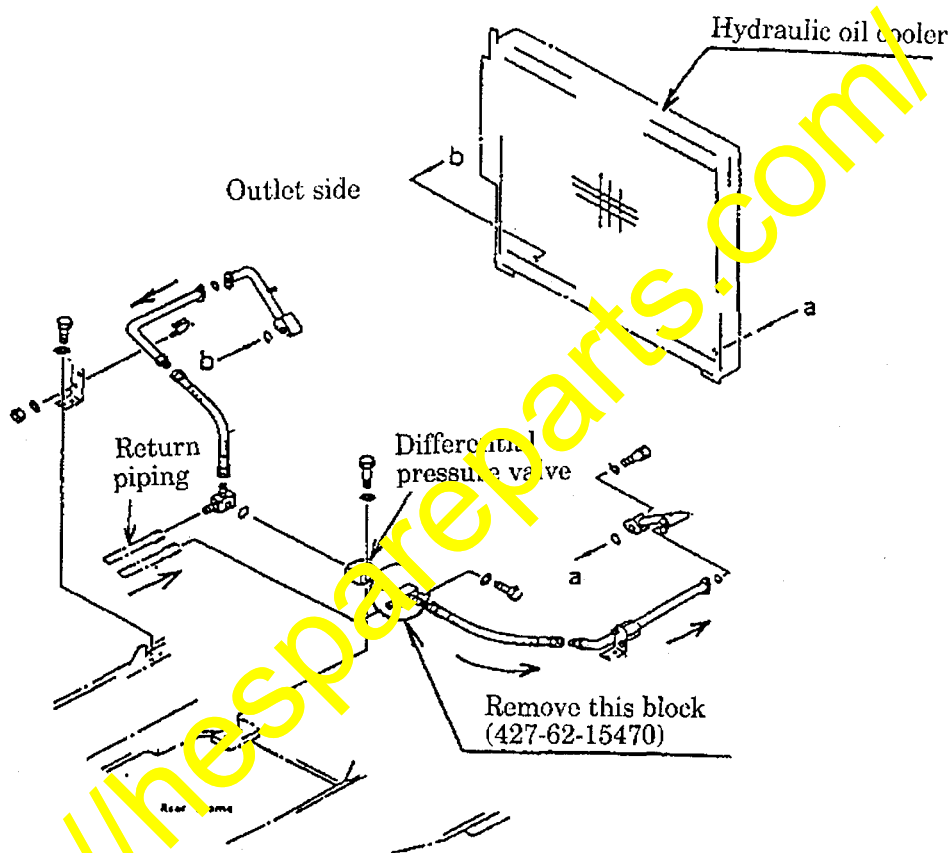


(3) Installing the pipings

※ Before starting installation of the piping, drain oil from the circuit.

- ① Disconnect and remove the block (Part No. 427-62-15470) to install the prepared block (Part No. 427-62-15770) in replacement.

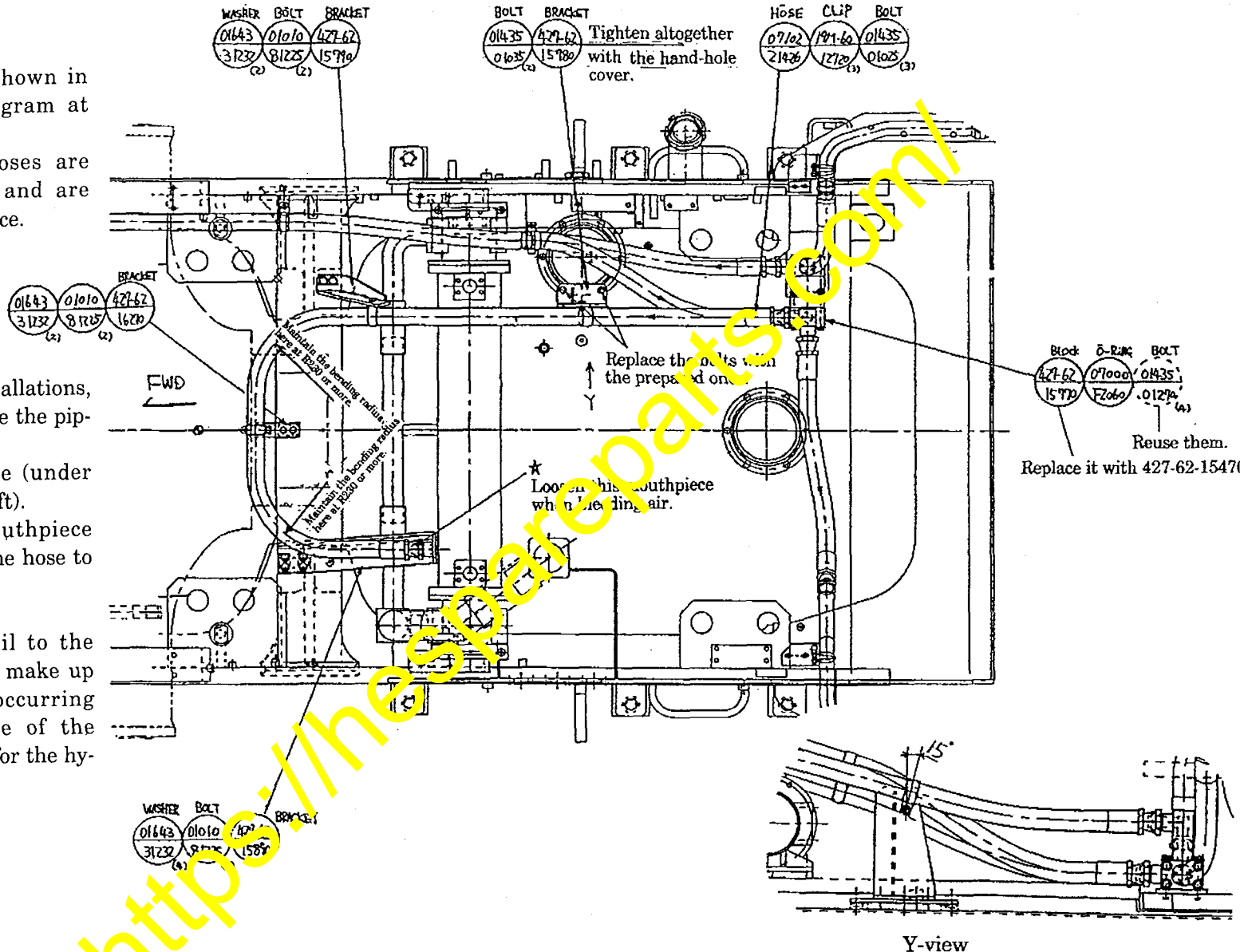
Meanwhile, reuse the mounting bolts but replace the O-ring (Part No. 07000-F2060) with a new part.



② Install the parts shown in the schematic diagram at right. Make sure the hoses are clamped securely and are free from interference.

③ After finishing installations, bleed air from inside the pipings.
 a. Start the engine (under the Lo-Idling shift).
 b. Loosen the mouthpiece (marked ☆) of the hose to release air.

④ Refill hydraulic oil to the prescribed level to make up for the leakage occurring during the course of the modification work for the hydraulic circuit.



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