INSTALLATION MANUAL

REF NO.	BA04021
DATE	December 23, 2004

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SUBJECT: INSTALLATION OF STEERING OIL COOLER BY-PASS DEVICE

PURPOSE: To introduce a procedure to install a device that will by-pass the steering oil

cooler when the hydraulic oil is cold, so a more consistent warm up is possible

during lower ambient temperatures.

APPLICATION: WA250-3MC Wheel Loader Serial Number A71001 and UP

WA250PT-3MC Wheel Loader Serial Number A78001 and UF

FAILURE CODE: 03C0NG

DESCRIPTION: To aid in warming up the steering oil during cold start stuations in cold working

conditions.

MACHINE PREPARATION

Park the machine on a flat level surface; lower the work equipment to the ground. Shut off the 1. engine and cycle the controls to remove any residual nya autic pressure from the work equipment circuits. Turn the parking brake switch on and block the tires or tracks.

Remove the key from the ignition switch until the certains are complete. Place a tag on the steering 2. controls advising: "This machine is being repaired. It should not be started or moved for any reason until the tag is removed by the person coing the repairs."



WARNING! Observe all safety reautionary standards as dictated by the environment and work condino, s inder which the equipment will be inspected, reworked and repaired, consu'(th) "Shop Manual" and "Operator's and Maintenance Manual" and your "conatsu district service manager" with any/all questions regarding safety

Remark

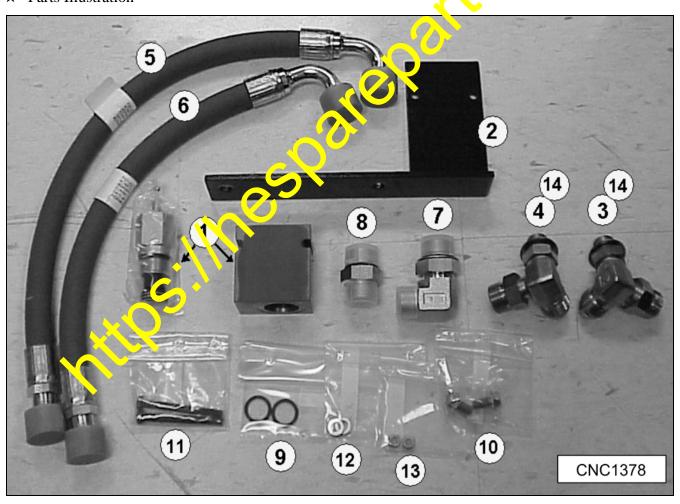
These instruction, cre intended to supplement the service data contained in the appropriate "Shop Maruar". Always refer to that manual for Removal, Installation, Disassembly and Reassen bly incructions when not contained in this document.



PART LISTING

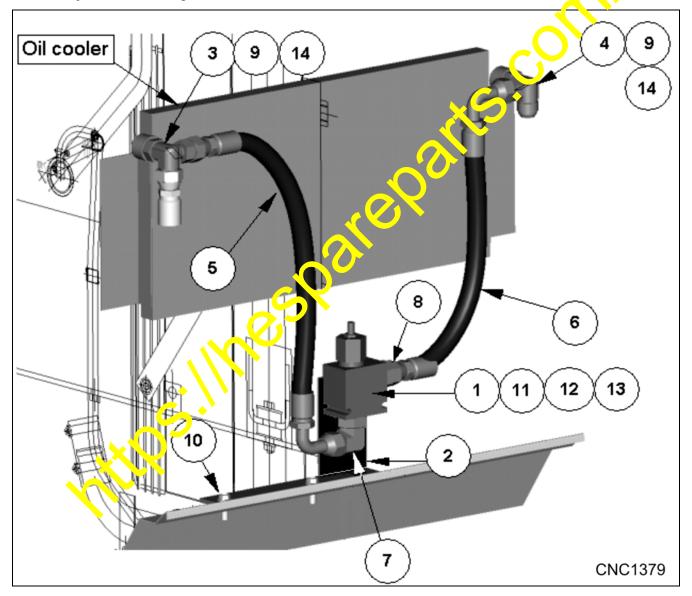
No.	Part Number	Description	Qty.	Remark
1	418-62-A1930	STEERING VALVE	1	
2	418-62-A1040	BRACKET	1	
3	418-62-A1050	TEE (LH)	1	
4	418-62-A1060	TEE (RH)	1	
5	418-62-A1940	HOSE (LH)	1	
6	418-62-A1950	HOSE (RH)	1	
7	418-62-A1960	ELBOW	1	
8	418-62-A1970	UNION	1	
9	07002-12434	0-RING	2	
10	01435-01020	BOLT	2	
11	25678R1	BOLT	2	
12	25543R1	WASHER	2	
13	9413977	NUT	2	
14	02896-11018	0-RING	2	

★ Parts Illustration



INSTALLATION PROCEDURES

- 1. Allow the machine to cool down to room temperatures.
- 2. After machine has cooled down, relieve hydraulic pressure in the steering system.
- 3. Install steering valve (1) to bracket (2) and install on the machine as shown in the illustration below.
- 4. Assemble hose (5) and tee (3) then install as shown in illustration below.
- 5. Assemble hose (6) and tee (4) the install as shown in illustration below.
- 6. Once bypass system is assembled and installed in place remove cooler inlet and outlet lines and loosely attach to bypass hoses.
- 7. Once attached to the bypass system, attach assembled tees (3) and (4) to the cooler.
- 8. Adjust hoses and tighten lines.



★ Start engine and operate system checking for leaks.