

PARTS & SERVICE NEWS

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AA04049

DATE

April 26, 2004

(C)

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- SUBJECT:** CHANGE TO THE DRAIN PORT FOR BYPASS VALVE
- PURPOSE:** To introduce a procedure to re-rout the bypass valve drain line in order to shorten the dumping time and resolve hydraulic vibration on wheel loaders hydraulic system.
- APPLICATION:** WA250PT-5L Wheel Loader Serial Numbers A79001 to A79124
- FAILURE CODE:** 7700MC
- DESCRIPTION:** In the present design, the dump speed is slow during lower temperatures below 50°C (122°F). It will fall into specifications when temperatures are higher. By changing the drain hose on the bypass valve the draining time for the hydraulic fluid will increase. Thus the hydraulic temperature will not affect the dumping speed bringing it within required specifications during all temperate ranges. This is also a corrective action in response to hydraulic vibration that occurs when the boom is raised and the bucket is in the dump position.

MACHINE PREPARATION

1. Park the machine on a flat level surface; lower the work equipment to the ground. Shut off the engine and cycle the controls to remove any residual hydraulic pressure from the work equipment circuits. Turn the parking brake switch on and block the tires.
2. Remove the key from the ignition switch until the repairs are complete. Place a tag on the steering 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 doing the repairs."



WARNING! Observe all safety and precautionary standards as dictated by the environment and work conditions under which the equipment will be inspected, reworked and repaired. Consult the "Shop Manual" and "Operator's and Maintenance Manual" and your "Komatsu district service manager" with any/all questions regarding safety.

Remark

These instructions are intended to supplement the service data contained in the appropriate "Shop Manual". Always refer to that manual for Removal, Installation, Disassembly and Reassembly instructions when not contained in this document.

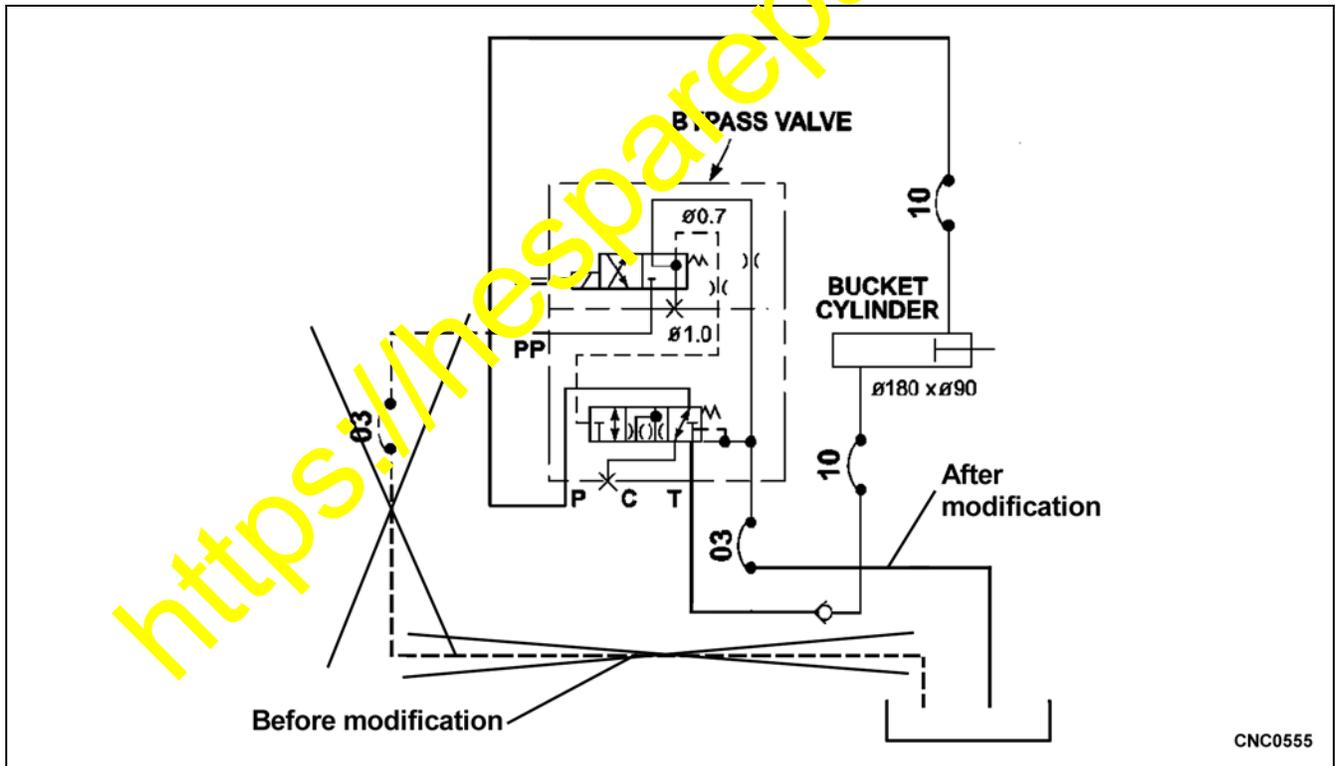
PART REQUIREMENTS

WA250PT-5L

BYPASS SYSTEM PARTS

Item	Part Number	Description	Qty.	Ref.	Serial No.
1	418-T90-3630	DRAIN HOSE	1		A79125 and UP
2	07095-20314	CUSHION	2		A79125 and UP
3	04434-52210	CLIP	2		A79125 and UP
4	07000-12011	O-RING	1		A79125 and UP
5	23S-56-21150	CLIP	1		A79125 and UP
6	02896-11009	O-RING	1		A79125 and UP
7	418-T90--3620	TEE	1		A79125 and UP
8	07040-12012	PLUG	1		A79125 and UP
9	07002-12034	O-RING	1		A79125 and UP

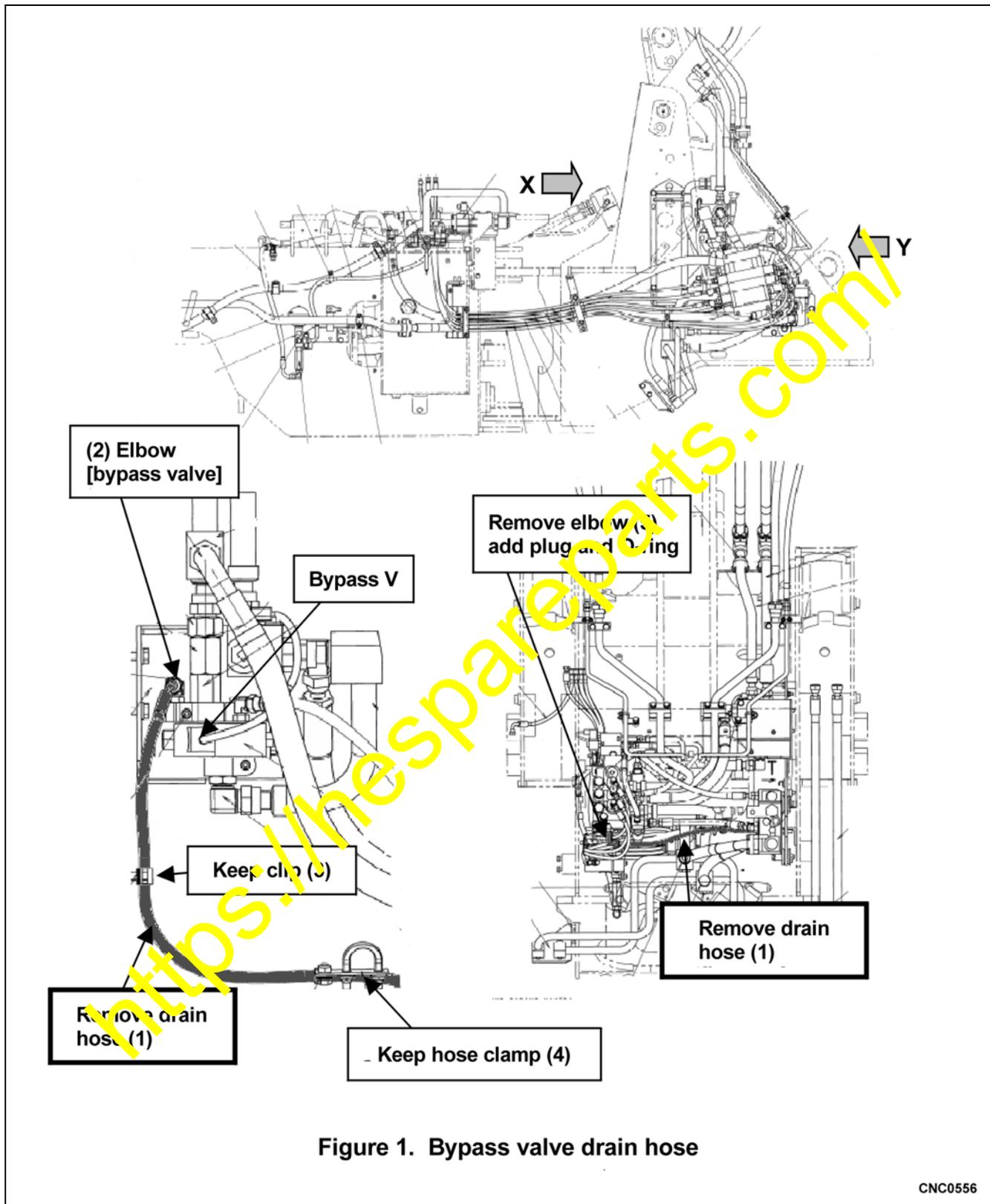
HYDRAULIC DIAGRAM OF CHANGE



- X indicates the line before modification

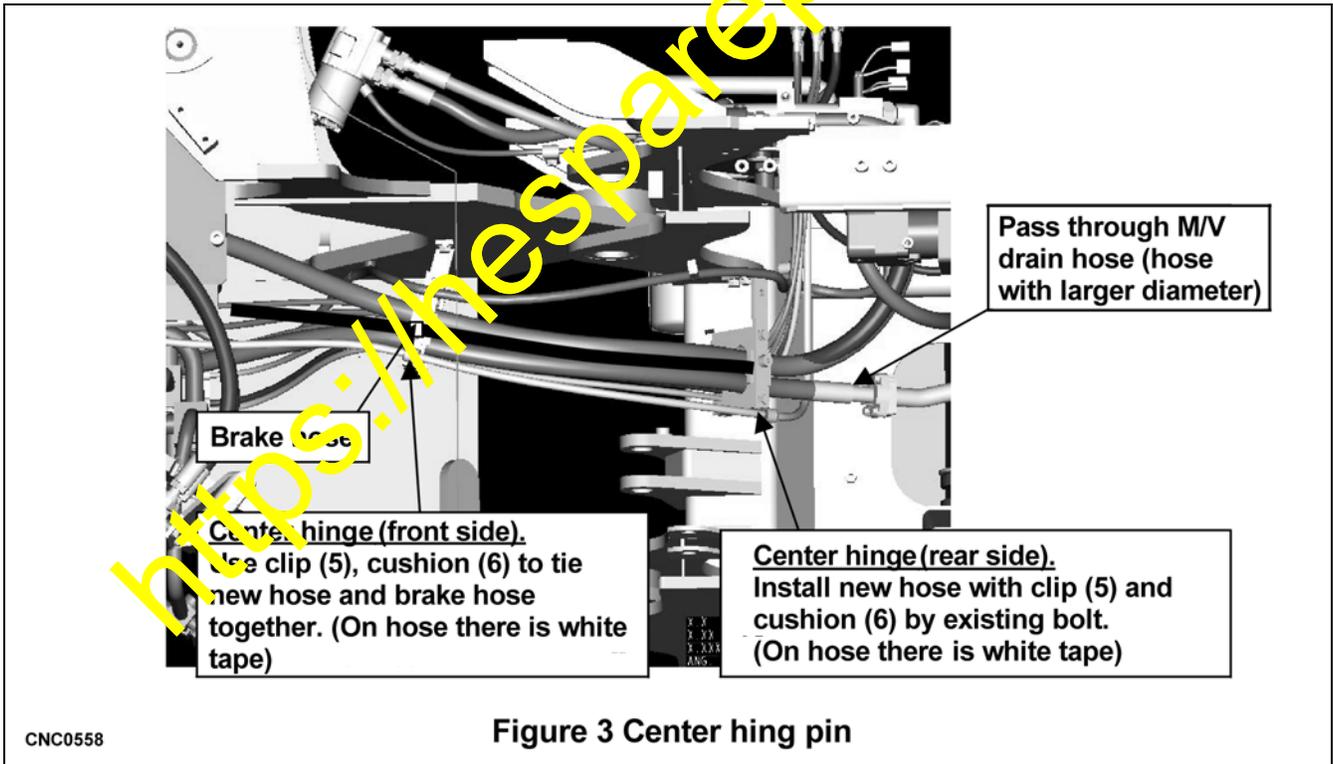
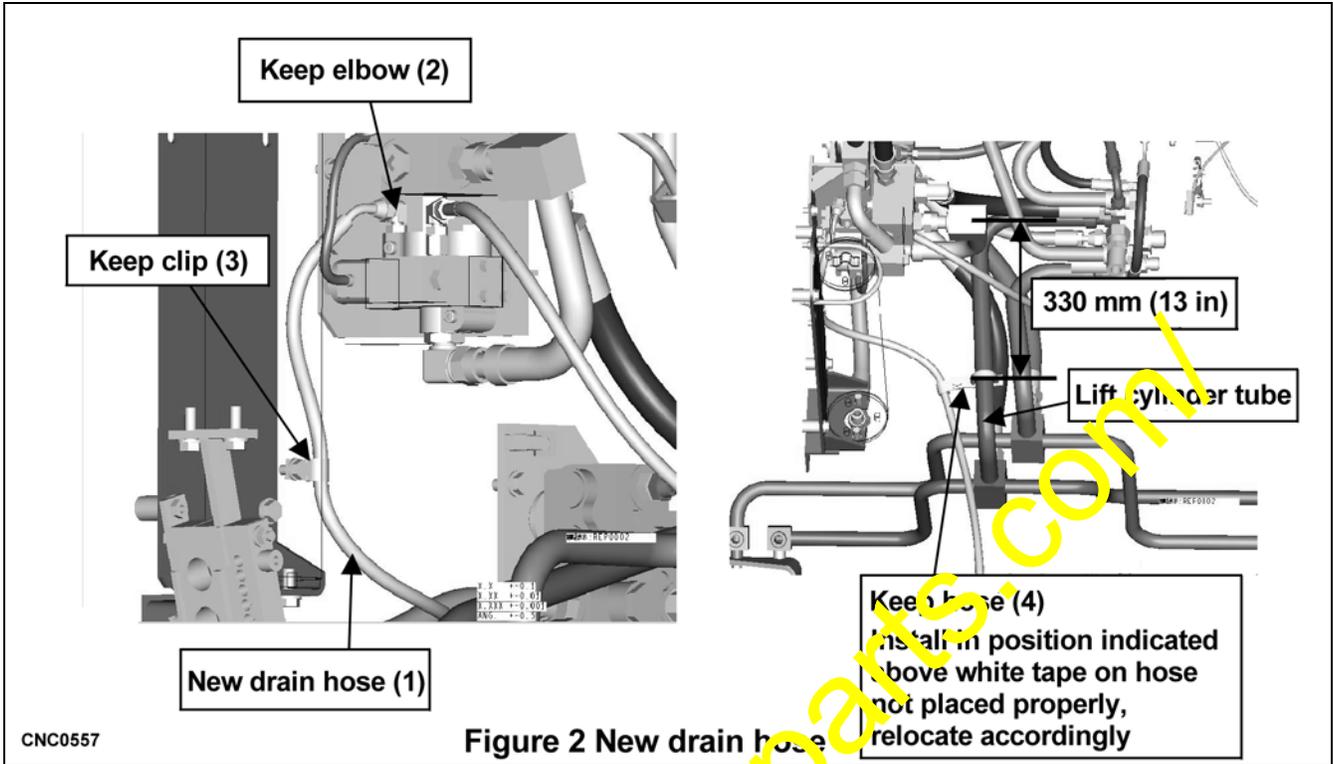
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REMOVAL OF DRAIN HOSE

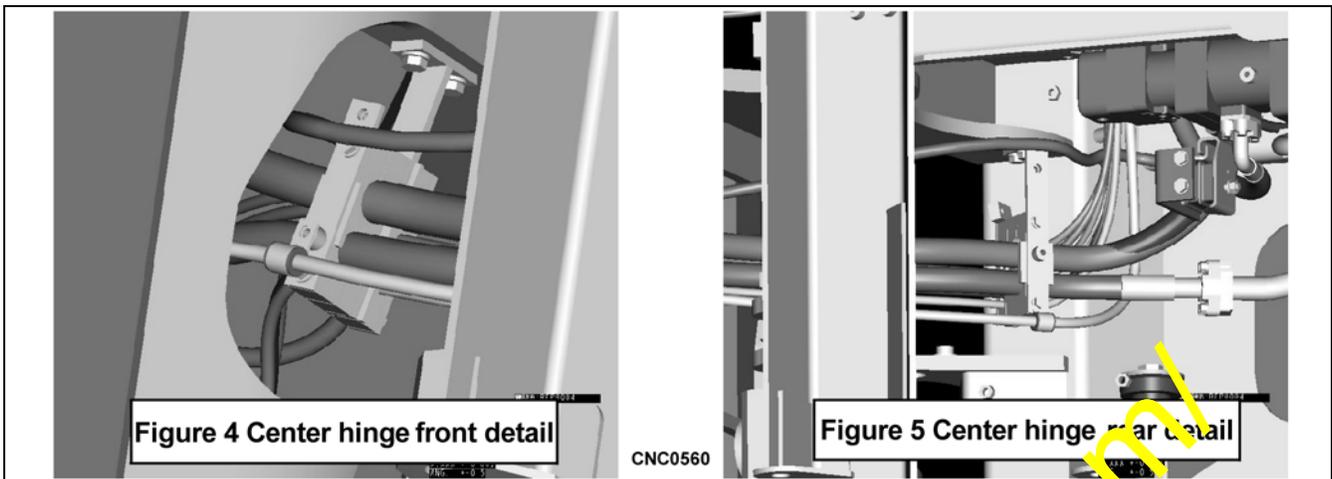


- Remove drain hose (1)
- Retain elbow (2) [bypass valve] clip (3) and clamp (4)
- Remove elbow (5) main valve and replace with plug 07040-12012 and O-ring 07002-12034.

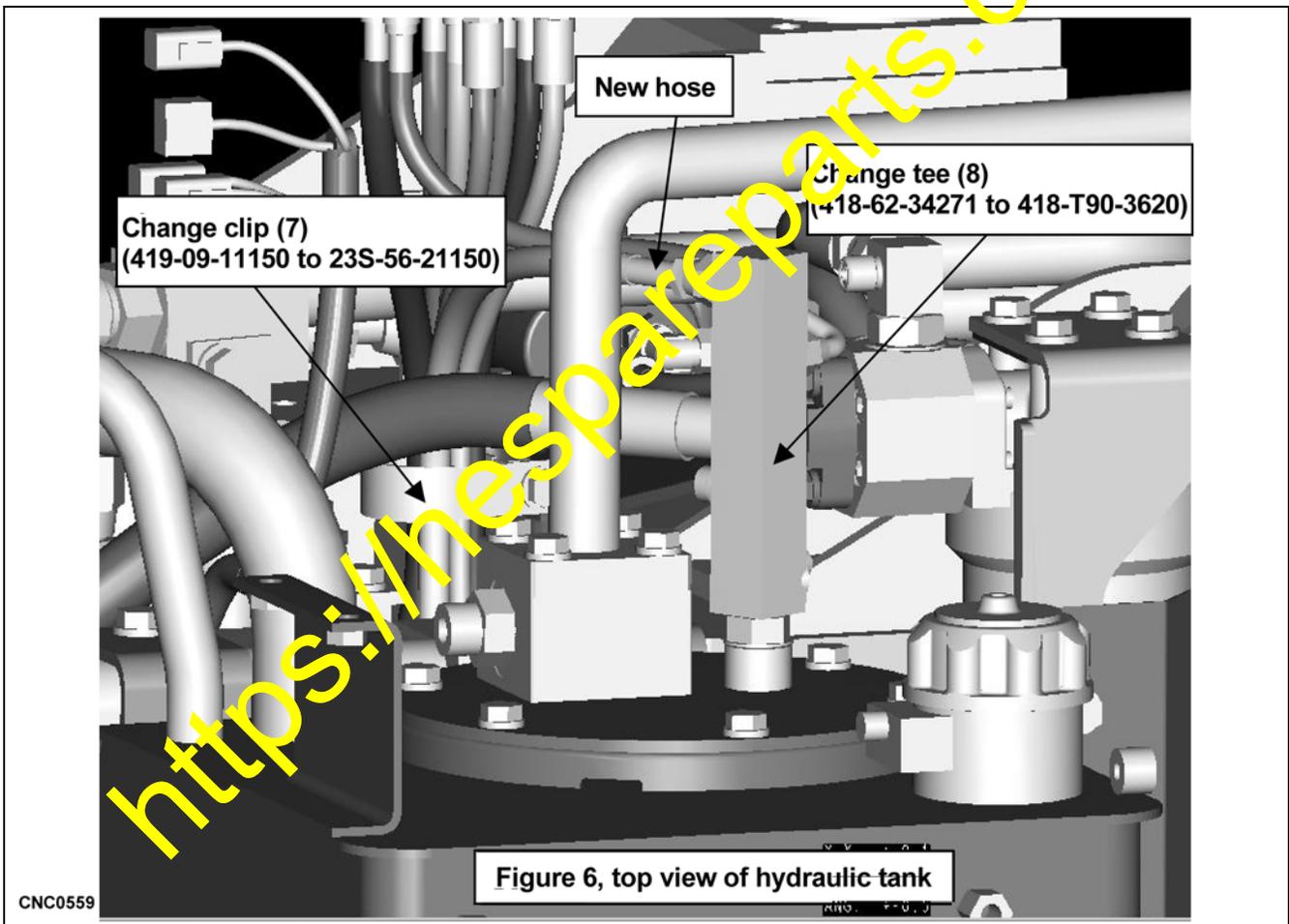
CHANGE HOSE



- Install drain hose (1) part number 418-T90-3630 [Figure 2]
- Retain elbow (2) [bypass valve] and clip (2) [Figure 2]
- Use hose clamp (4) [Figure 2]
- In center hinge section (2 places), use clamp (5) and cushion (6) [Figure 3]



- Replace clip (7) to attach hose 419-09-11150 to 23S-56-21150 [See figure 6]
- Replace tee (8) and install all hoses. 418-62-34271 to 418-T90-3620 [See figure 6 and 7]



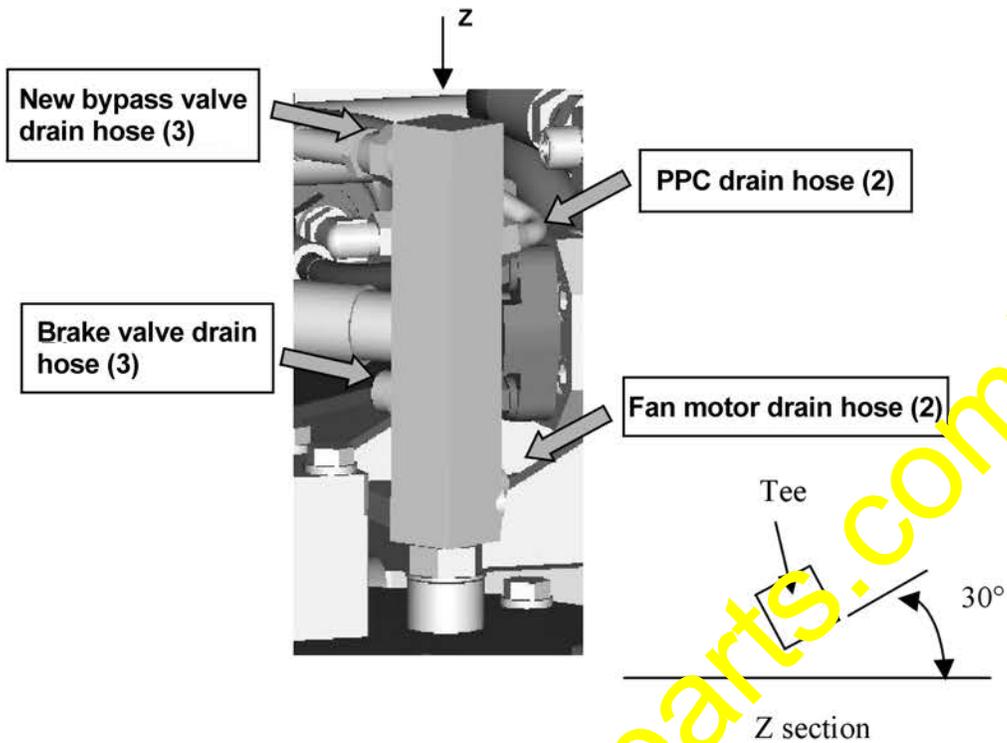


Figure 7 Tee detail

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