CEBMW21020

SHOP MANUAL

KOMATSU®

WA450-2

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA450-2	A25001 and up

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DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Engine and Chassis	BEPBW21021
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPMW21021
OPERATION & MAINTENANCE MANUAL:	
Chassis	SEAM0421KD200
Engine	3810492-00
SHOP MANUAL:	
Chassis	CEBMW21020
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PRECAUTIONS WHEN TROUBLESHOOTING

1. SAFETY

- Stop the machine on level ground, and check that the safety pins and parking brake are correctly applied, and that the tires are blocked.
- When working in groups, use agreed upon signals and do not allow unauthorized persons near machine.
- Be careful not to get burned by hot parts or get caught in rotating parts.
- Always disconnect the cable from the negative (-) terminals of the battery before disconnecting any wiring.
- Always release the pressure before removing the plugs or caps of any place under hydraulic or air pressure, and connect all measuring tools correctly.

2. METHODS FOR TROUBLESHOOTING

★ Just because a failure occurs, do not immediately start to disassemble the machine.

- The machine may be disassembled in such a way that the problem cannot be located, so the cause of the problem will be unknown.

As a result.

- The customer and operator will lose confidence in you.
- Time will be wasted, and unnecessary costs will be incurred for excess parts and greasing.

To avoid these problems, use the following procedure when troubleshooting.

1. Ask the customer and operator the following questions about the breakdown.

a. Have there been any other problems apart from the one reported?
b. Was there anything unusual before the machine broke down?
c. Did the breakdown occur suddenly, or had there been signs of trouble before?
d. What was the machine doing when break down occurred?
e. Had the machine been repaired before the breakdown? If so, who carried out the repair, and when?
f. Had the same kind of failure occurred before?

2. Check the following items which can be checked simply by visual checks etc.

a. Check oil level.
b. Check for leakage of oil from piping or hydraulic equipment.
c. Check travel of control levers.
d. Check stroke of spool in control valves.

3. Reenact the failure and check the condition of the machine (particular conditions at the time of failure).

a. Ask the user or operator if the decision about the failure was made based on measured values, or by comparison, or by feeling.
b. Compare extent of failure with standard values.
- Check safety before carrying out any check.
- Did not make any check or measurement that will make the condition worse.

4. Try to locate the possible causes for the failure.

The transmission system consists of the transmission itself, the transmission control valve, and the transmission electrical control.

In particular, when trouble occurs in the transmission system, the probable location of the failure can be divided as follows;
- Transmission itself, or transmission control valve.
- Transmission electric control.

To decide which of the two is the location of the failure, go to page 22 - 18, (JUDGMENT ON POWER TRAIN).

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HYDRAULIC CIRCUIT DIAGRAM

(2-SPOOL)

SEE FOLD OUT # 4 AT END OF BOOK.

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ADJUSTING DUMP AND LIFT CONTROL LEVERS

1. Remove cover (1).

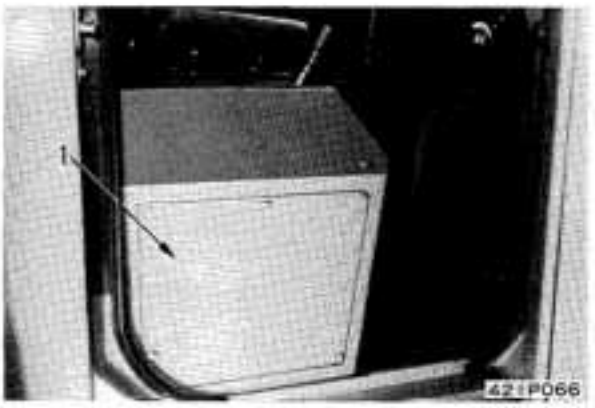
2. With solenoid (6) pulled, secure the solenoid so that the clearance between cam (3) and roller (4) is dimension "a".

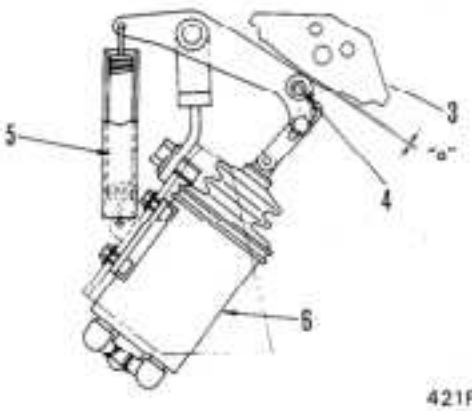
   Dimension "a": 0 - .5 mm

   * Set the bucket lever and lift lever at neutral.
   * If cam (3), roller (4), or spring (5) are damaged, replace them before carrying out adjustment.

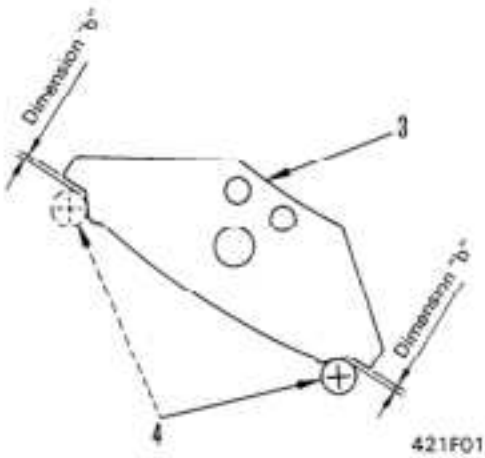
3. **Lift lever**
   Operate the lift lever and adjust the length of rod (2) to give clearance "b" between the notched portions at both ends of cam (3) and roller (4).

   Dimension "b": 0 - 1 mm





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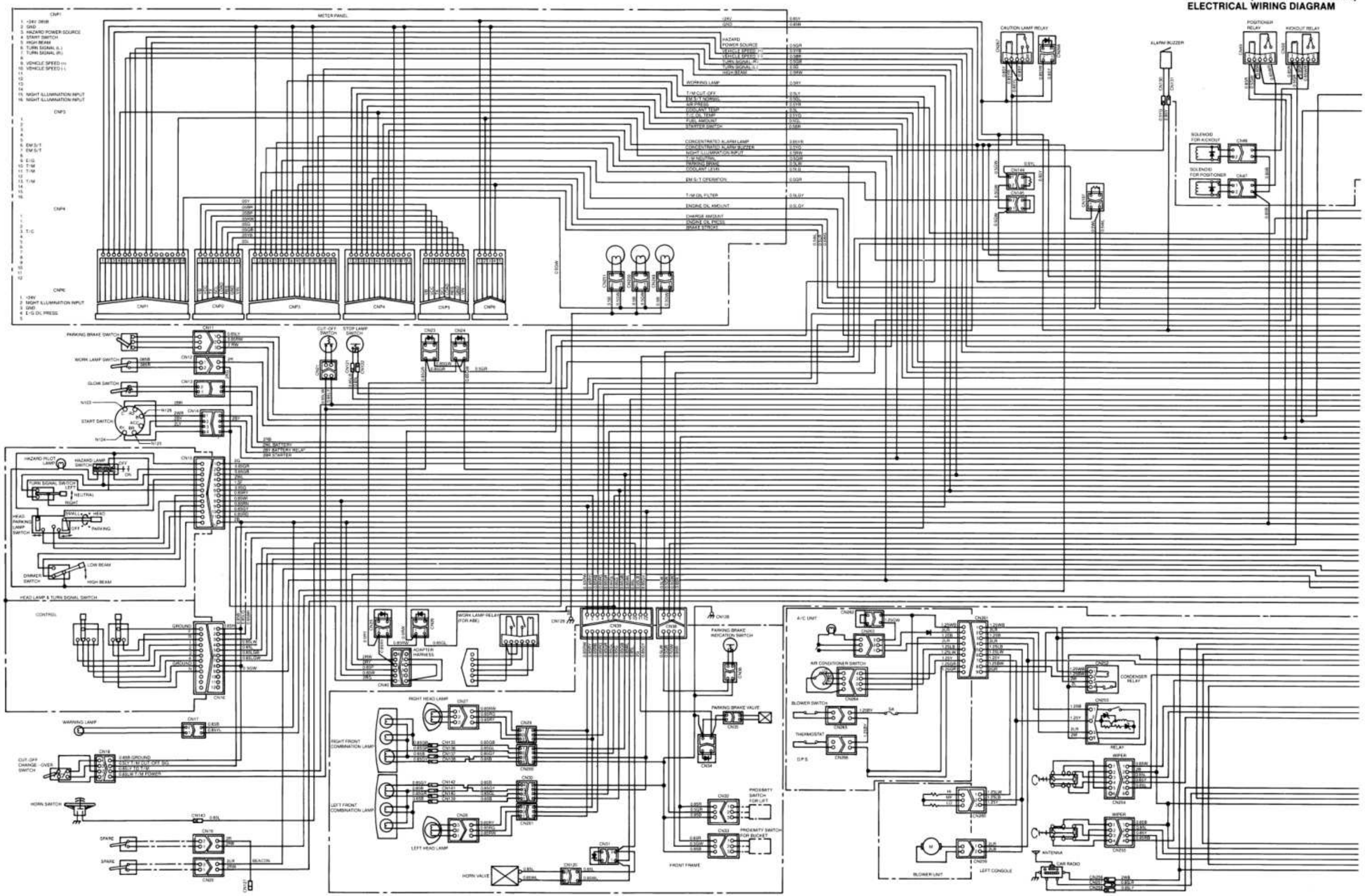


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