CEBMW23030

SHOP MANUAL

KOMATSU®

WA380-1LC

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA380-1LC	A45001 and up

Printed in U.S.A.
08-91

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DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Engine and Chassis	BEPBW23030
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPMW23030
OPERATION & MAINTENANCE MANUAL:	
Chassis	CEAMW23030
SHOP MANUAL:	
Chassis	CEBMW32030
Engine:	
Shop Manual	CEBM614SM0
Specification Manual	CEBM614SP0
Troubleshooting and Repair Manual	CEBM614TR0
SAFETY MANUAL	1085 883 R3

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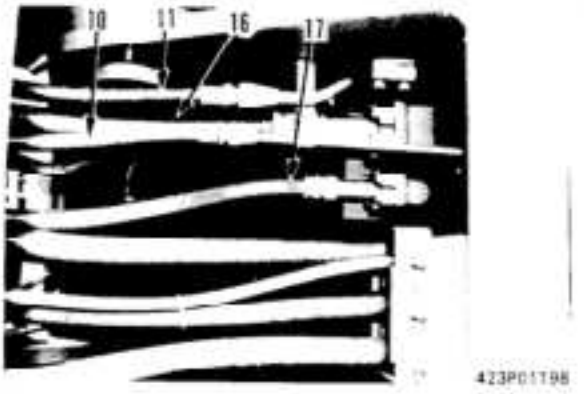
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6) Insert lower hinge pin (46), then secure with lock bolt.

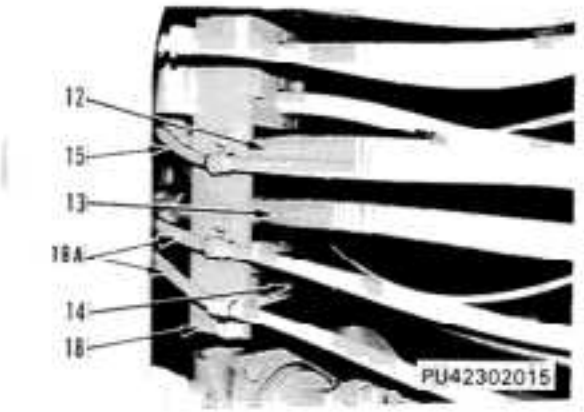
Outside circumference of hinge pin: Grease (G2-L1)

7) Remove stands from front and rear frame, and from counterweight.
8) Install safety bar.



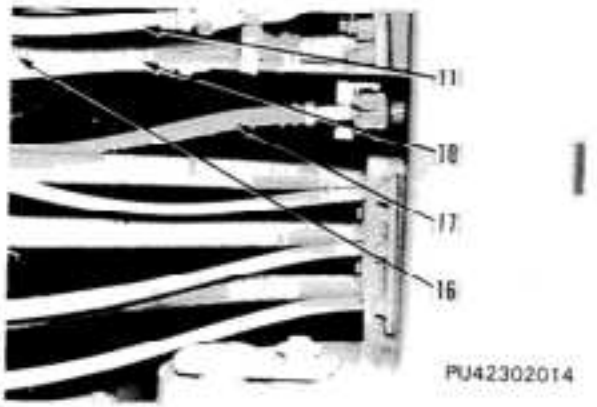
4. Hydraulic piping

1) Install clamp (18).
2) Connect hose (18A) between steering valve and stop valve to stop valve end.
3) Connect hose (15) between main control valve and hydraulic tank to main control valve.
4) Connect hose (14) between hydraulic pump and main control valve to main control valve.
5) Connect hoses (12 and 13) between hydraulic pump and steering valve from front frame

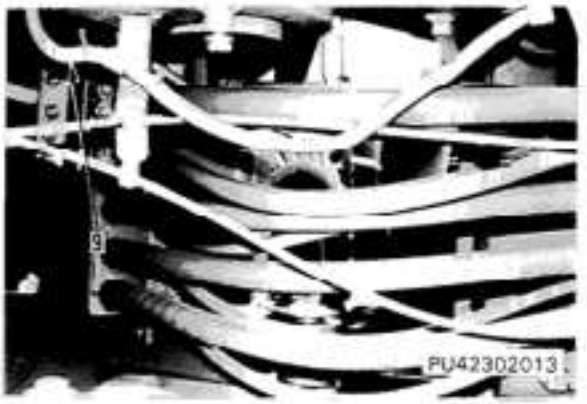


5. Electrical wiring, piping

1) Connect hose (17) between steering valve and radiator to rear frame.
2) Connect hose (16) between main control valve and hydraulic tank to rear frame.
3) Connect air hose (10) and brake hose (11).



4) Install clamp (9) of wiring for front frame.



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METHOD OF USING YES-NO TROUBLESHOOTING FLOW CHART

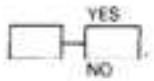
The electrical system can be broadly divided into the following two parts.

1. Starting system, transmission electrical control system, and brake system.
2. ELECTRONIC VEHICLE MONITORING SYSTEM.
   The charts for these systems are marked as E-xx, and M-xx respectively.

Troubleshooting chart No.	Item
E-xx	Troubleshooting of starting system, transmission electrical control system, and brake system.
M-xx	Troubleshooting of electronic vehicle monitoring system.

1. Method for troubleshooting

- Check or measure the items inside the rectangle



According to the result, follow the YES arrow or the NO arrow and proceed to the next rectangle. (Note: The number given at the top right of the rectangle is a reference number. It does not indicate the order for troubleshooting.)

- If the result of the check or measurement leads directly to the CAUSE column, note the cause and take the action given in the REMEDY column.
- The value for the check and the measurement method is given inside the rectangle. If the value is correct, or the answer is yes, follow the YES arrow; if the value is not correct or the answer is no, follow the NO arrow.
- Below the rectangle, there is a list given preparatory work, methods of operating and handling, and judgement values needed for checking and measuring. If the preparatory work is ignored, or the wrong method of operating or handling is used, or the judgement is wrong, this could result in damage to the equipment. Therefore, always read the procedure carefully before starting the check or measurement, and carry out the operation in the order given.

2. Precautions when carrying out troubleshooting

The precautions to be followed when carrying out troubleshooting for each failure is marked ★ under the description of the failure. Always follow these precautions when making measurements.

3. Tools needed for troubleshooting

The tools needed for troubleshooting for each problem are listed as follows.

Troubleshooting tools		

Prepare these tools before starting troubleshooting.

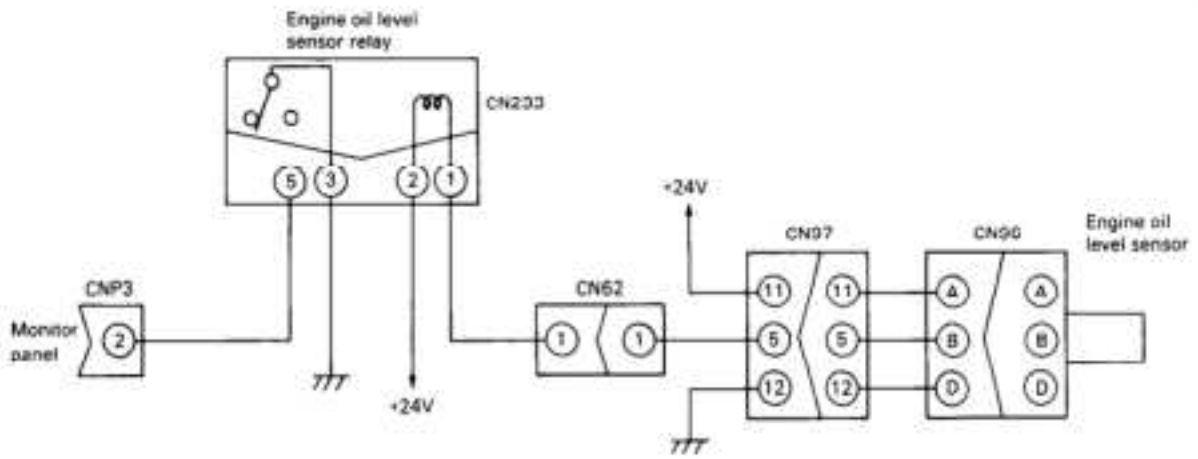
4. Place to install connectors, connector pin numbers

When troubleshooting some problems, measurements have to be made of continuity, voltage and resistance at each step during the troubleshooting procedures. The location for measurement at each step (location of connector, connector pin number) is shown in a photograph or diagram. For this reason, use these photographs together with the YES-NO type troubleshooting flow charts to carry out troubleshooting quickly and accurately.

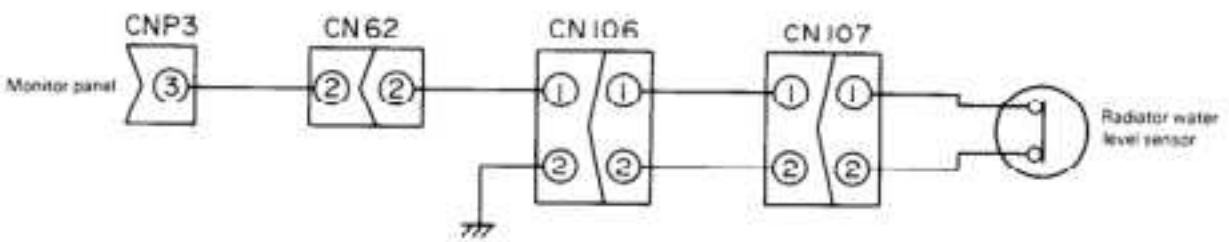
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M-3 Related electrical circuit drawing

a) Engine oil level (Fig. 3).

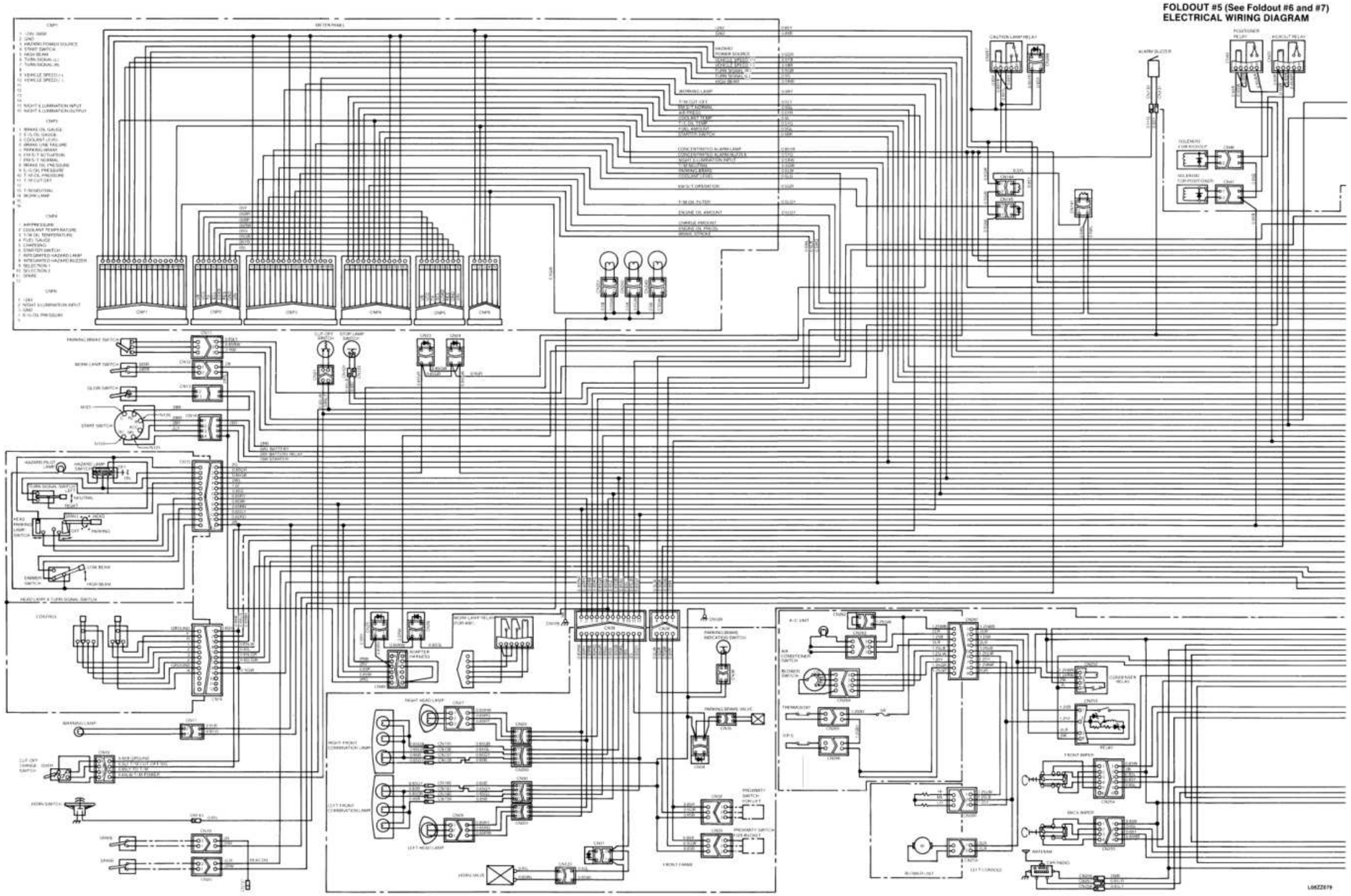


b) Radiator water level (Fig. 4).



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FOLDOUT #5 (See Foldout #6 and #7)
ELECTRICAL WIRING DIAGRAM



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