CEBM003302

SHOP MANUAL

KOMATSU®

WA320-3MC

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA320-3MC	A31001 and up

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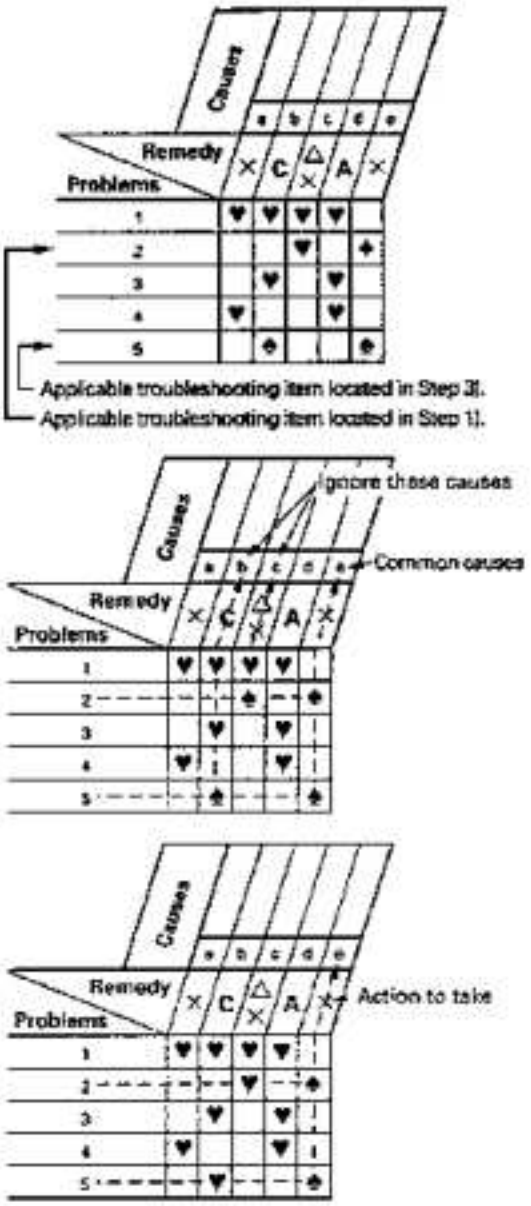
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3) Operate the machine and check the troubleshooting items other than those in 1).
Operate the machine and check the items in the same way as in 1), and if the symptom appears, mark that item. (In the chart on the right, the symptom appears again for item 5).
4) Find the appropriate cause from the cause column. In the same way as in Step 2, if the symptom appears, the marks on that line indicate the possible causes. (For item No.5 in the table on the right, the possible causes are **b** or **e**.)

5) Narrow down the possible causes.
There is one common cause among the causes located in Steps 2 and 4. (One cause marked appears on the line for both items.) This cause is common to both the symptoms in troubleshooting Steps 1 and 3.
   i The causes which are not common to both troubleshooting items (items which are not marked for both symptoms) are unlikely causes, so ignore them. (In the example given on the right, the causes for Troubleshooting Item 2 are **c** or **e**, and the causes for Troubleshooting Item 5 are **b** or **e**, so cause **e** is common to both.)
6) Repeat the operations in Steps 3, 4 and 5 until one cause (one common cause) remains.
   i If the causes cannot be narrowed down to one cause, narrow the causes down as far as possible.

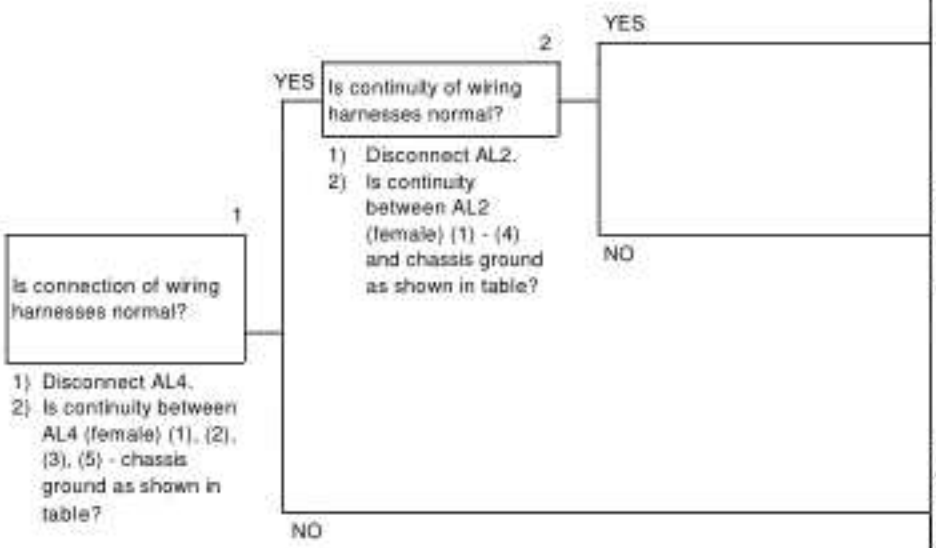
7) Remedy
If the causes are narrowed down to one common cause, take the action given in the remedy column.
The symbols given in the remedy column indicate the following:
X, Replace; r, Repair; A, Adjust; C, Clean



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(e) Error code [d4] is displayed

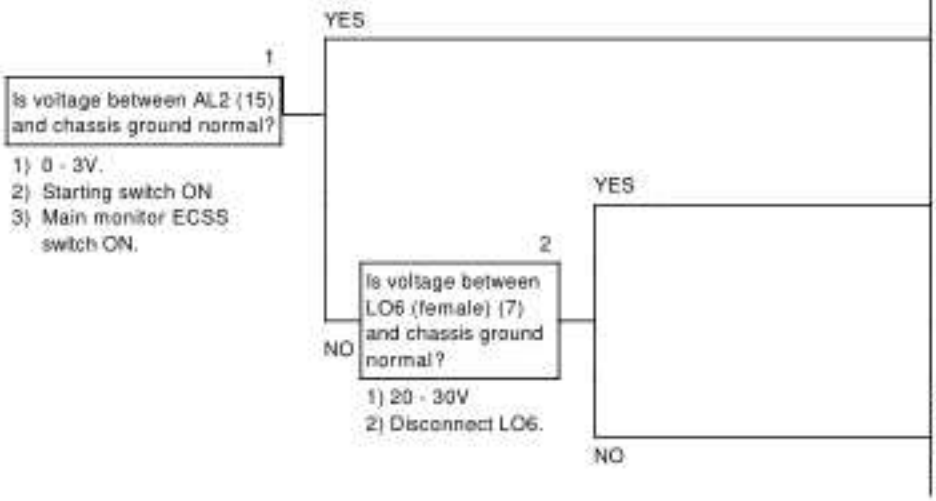


Cause	Remedy
Faulty controller	Replace
Disconnection in wiring harness between AL2 (female) and AL4 (male), or contact with chassis ground	After inspection, repair or replace
Faulty contact, or disconnection in wiring harness between AL4 (female) and chassis ground, or contact with chassis ground	After inspection, repair or replace

Connector / Model	AL4 (female)				AL2 (female)			
	(5)	(2)	(3)	(1)	(1)	(2)	(3)	(4)
WA320	No	No	No	Yes	No	No	No	Yes
WA380	No	No	Yes	No	No	No	Yes	No
WA420	No	Yes	No	No	No	Yes	No	No
WA450	No	Yes	Yes	Yes	No	Yes	Yes	Yes

(f) No abnormality display is given

(1) Does not work at all



Cause	Remedy
Faulty controller	Replace
Faulty main monitor	Go to troubleshooting of main monitor
Disconnection in wiring harness between AL2 (female)(15) - DP2 (1) - LO6 (female)(7)	After inspection, repair or replace

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Protect the radiator core from being damaged by touching the fan. Move the radiator toward the counterweight when lifting it clear.

kg Radiator: **78 kg (172 lb)**



INSTALLATION OF RADIATOR ASSEMBLY

! Reverse the removal procedure to install the radiator assembly.

1 2 3
! Connect the wiring connectors securely.

4
! To prevent the hose from twisting, hold the hose securely with two wrenches when tightening.
Air conditioner hose:
22 ± 2.5 Nm (16.2 ± 1.8 lbf ft)

5
Dryer receiver hose bolt:
5.4 ± 1.5 Nm (4 ± 1.1 lbf ft)

6
i The space inside the hood is confined, so lower slowly and be careful not to hit any internal parts.

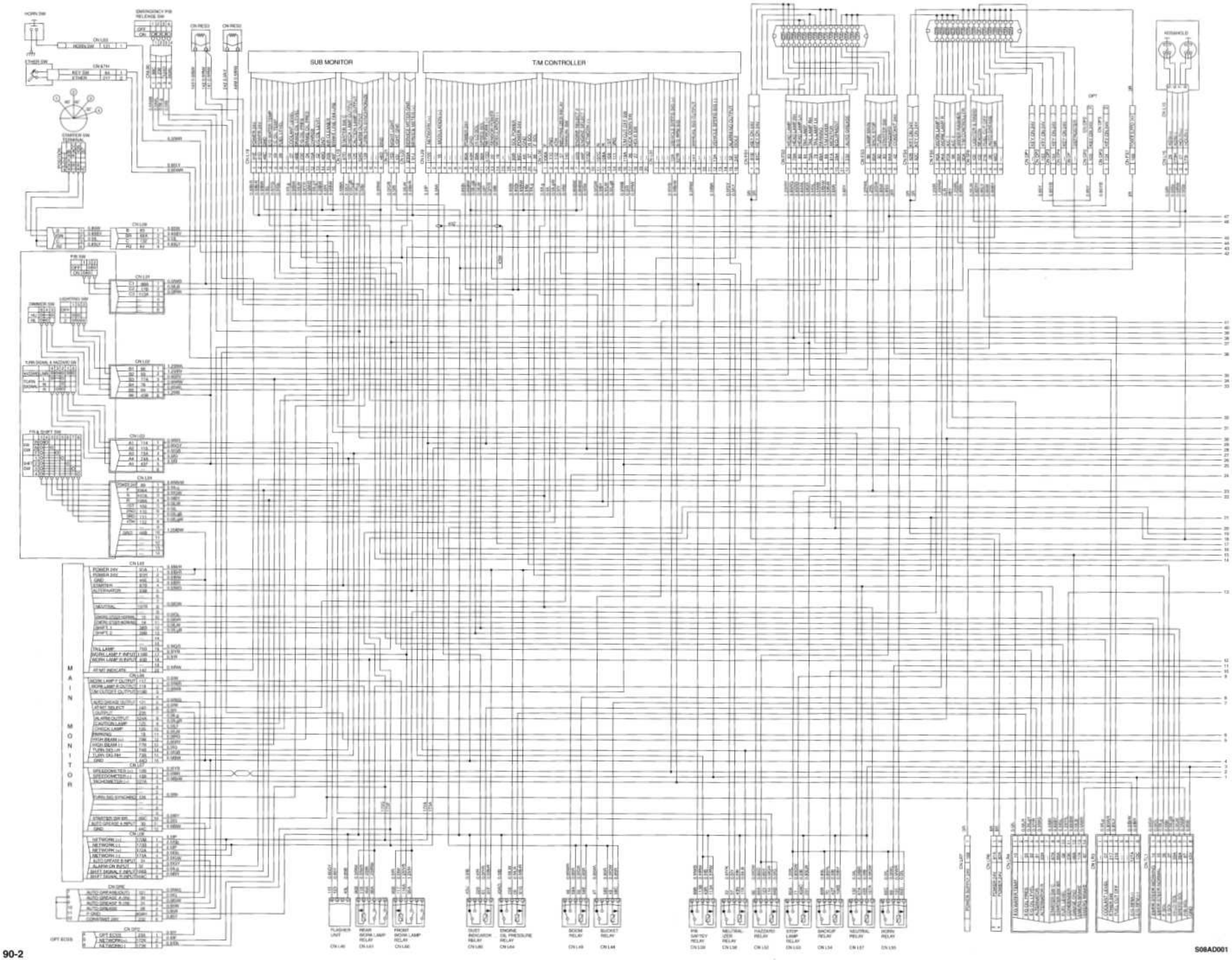
7
i Install the fan guard so that the clearance from the fan is uniform.

8
i Install the hoses without twisting or interference.
Joint nut: **196 ± 49 Nm (144.6 ± 36 lbf ft)**
(width across flats: 41 mm)

9
i Make sure that the clearance from the fan is uniform when installing.
i Be careful not to damage the radiator core.
i Insert the radiator carefully from the counterweight end.
! Refilling with water Add water through water filler to the specified level.
i Run the engine to circulate the water through the system. Then check the water level again.

Coolant: **30R(7.9 gal)**

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