Manual No. : KM-141-E
Vol. No. : TT141-E-01

Technical Manual

(Troubleshooting)

EX2500-5
Excavator

Service Manual (Manual No. KM-141-E) consists of the following three separate volumes;

Technical Manual (Operational Principle)	: Vol. No. TO141-E
Technical Manual (Troubleshooting)	: Vol. No. TT141-E
Workshop Manual	: Vol. No. W141-E

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SECTION 4

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TROUBLESHOOTING B PROCEDURE

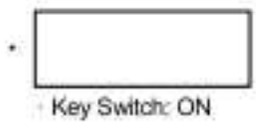
In this section, troubleshooting starts with a description of the machine malfunction.

On the next page, malfunctions and possible causes are shown on charts. Refer to the charts to find the flow chart applicable for your problem.

- How to Read the Troubleshooting Flow Charts



- After checking or measuring item (1), select either Yes (OK) or No (NOT OK) and proceed to item (2) or (3), as appropriate.



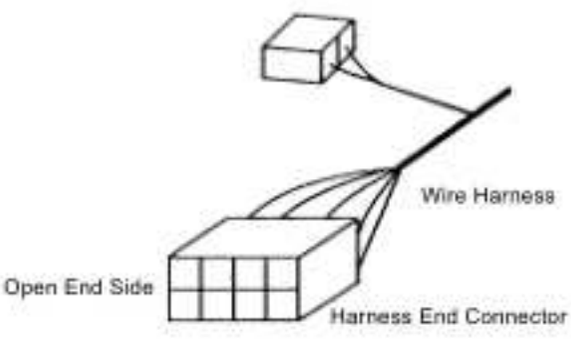
- Special instructions or reference item are indicated in the spaces under the box. Incorrect measuring or checking methods will render troubleshooting impossible, and may damage components as well.



- Causes are stated in a thick-line box. Scanning through thick-line boxes, possible causes can be seen without going through the flow chart.

NOTE: If "Contact CUMMINS." is indicated, be sure to inform them of the fault codes if any are indicated. (Refer to "Troubleshooting A" for how to read fault codes.)

NOTE: For all connector drawings illustrated in this group, harness end connector terminals seen from the open end side are shown.



T150-05-03-001

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- Faulty coolant temperature sensor
- NO
  - Faulty coolant temperature gauge
  - YES
    - Faulty harness (breakage) between coolant temperature gauge and sensor.
- Faulty coolant temperature sensor
- Faulty harness (short circuit) between coolant temperature gauge and sensor.
- Faulty coolant temperature gauge
- Faulty coolant temperature sensor
- Faulty coolant temperature gauge

Coolant Temperature Gauge

White : 75 °C (167 °F) or less
Green : 75 to 100 °C (167 to 212 °F)
Red : 100 °C (212 °F) or more



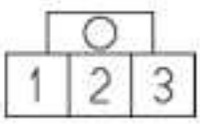
M117-01-032

Coolant Temperature Sensor Resistance

50±0.2 °C (122±0.36 °F) : R=112.4±10 Ω
60±0.2 °C (140±0.36 °F) : R=79.3±5 Ω
80±0.2 °C (176±0.36 °F) : R=41.8±2.5 Ω
100±0.3 °C (212±0.54 °F) : R=23.6±0.9 Ω
105±0.3 °C (221±0.54 °F) : R=20.7±0.6 Ω
120±0.3 °C (248±0.54 °F) : R=14.2±0.3 Ω

Connecter

Coolant Temperature Gauge



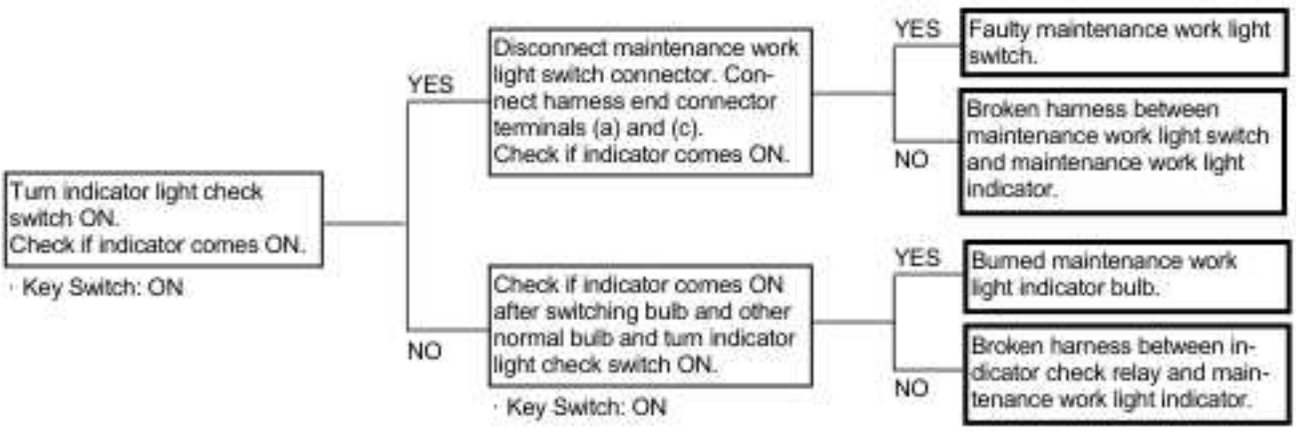
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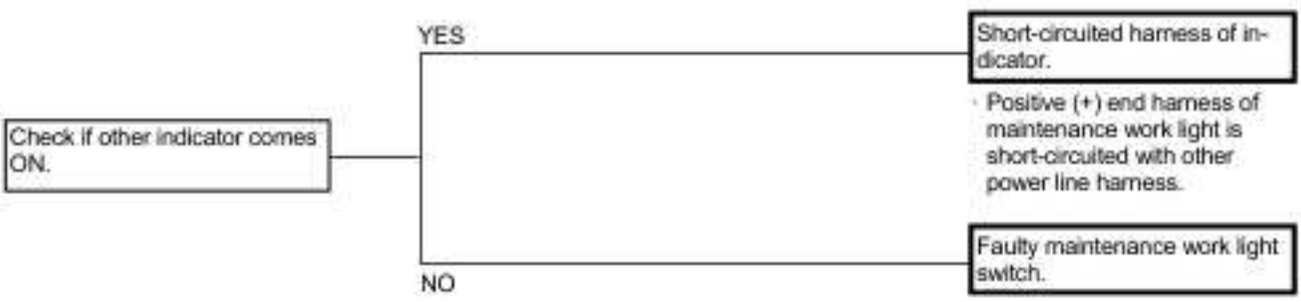
MALFUNCTION OF MAINTENANCE WORK LIGHT INDICATOR

- Providing that other indicators light correctly.
- Check for loose harness connections beforehand.

Indicator (green) does not come ON even if maintenance work light switch is turned ON.

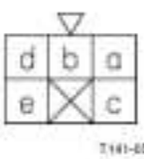


Indicator (green) comes ON even if maintenance work light switch is not turned ON.



Connector

Maintenance Work Light Switch

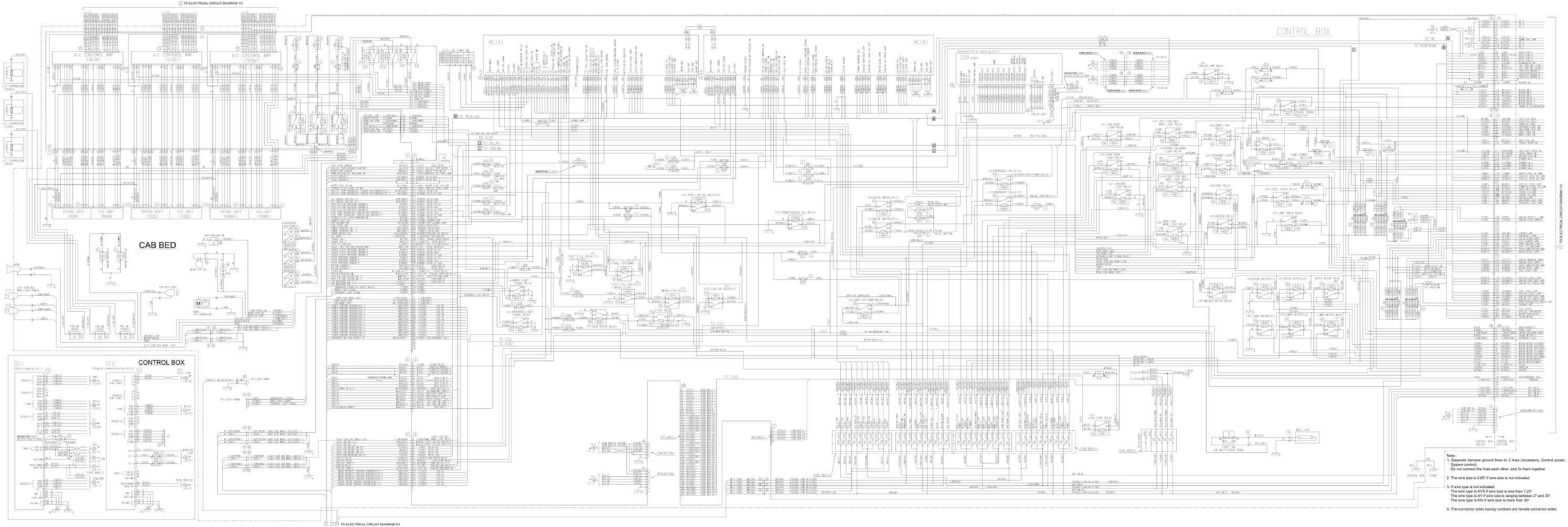


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EX2500-5 ELECTRICAL CIRCUIT DIAGRAM 2/3 (Up to Machine Serial No.523)



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