CEBMW23091

Shop Manual

KOMATSU®

WA380-3

WHEEL LOADER

SERIAL NUMBERS **WA380-3LE - A50001** and up

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DIESEL FUEL SPECIFICATIONS

> ⚠ Do not mix gasoline or alcohol with diesel fuel. This mixture can cause an explosion.

★ Due to the precise tolerances of diesel injection systems, it is extremely important that the fuel be kept clean and free of dirt or water. Dirt or water in the system can cause severe damage to both the injection pump and nozzles.

For normal service above -12°C (+10°F), the use of ASTM Grade No. 2-D diesel fuel with a minimum Cetane number of 40 is recommended. The use of No. 2-D diesel fuel will result in optimum engine performance under most operating conditions. Fuels with Cetane numbers higher than 40 may be needed in high altitudes or extremely low ambient temperatures to prevent misfires and excessive smoke.

At operating temperatures below -12°C (+10°F), use ASTM Grade No. 1-D diesel fuel. The use of lighter fuels can reduce fuel economy.

Where a winterized blend of Grade No. 2-D and No. 1-D fuels is available, it may be substituted for Grade No. 1-D fuel. However, it is the supplier's responsibility to provide the fuel for the anticipated ambient temperature.

Use a low sulfur content fuel having a cloud point that is at least 10 degrees below the lowest expected fuel temperature. Cloud point is the temperature at which crystals begin to form in the fuel. The viscosity of the fuel **must** be kept above 1.3 cSt to provide adequate fuel system lubrication.

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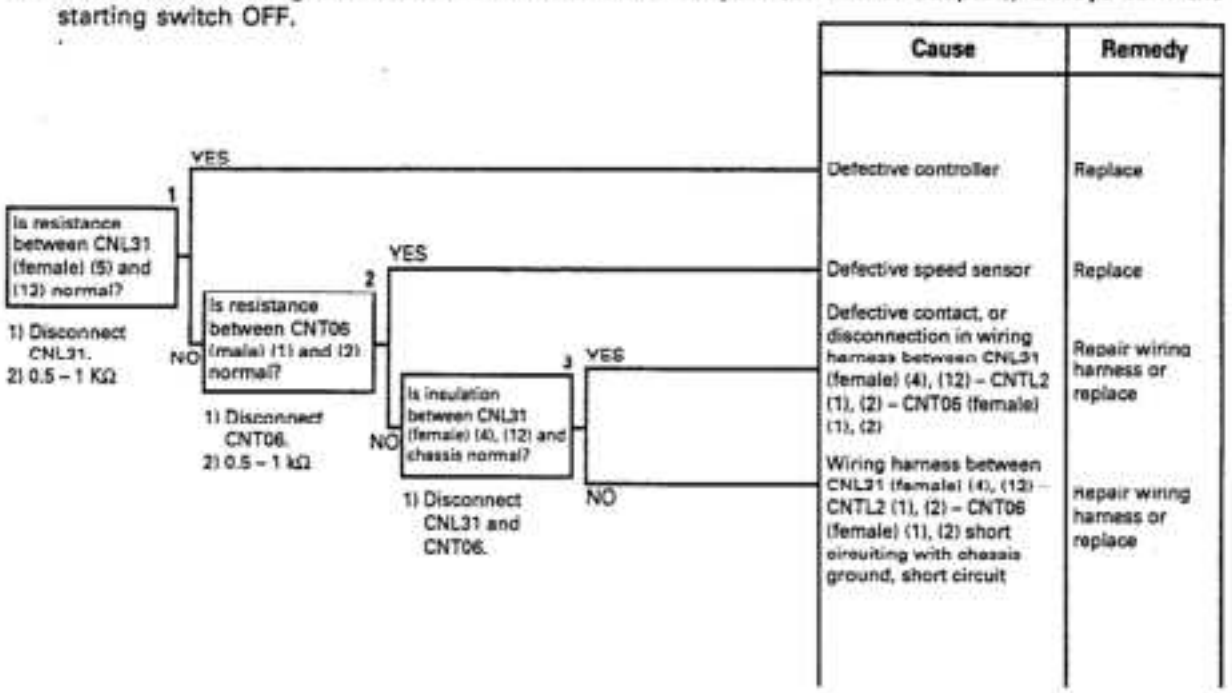
Cause	Remedy
Defective REVERSE relay	Replace
Abnormal contact of wiring harness between CNT02 (female) (1) and CNTL1 (female) (4) with +24V wiring harness	After inspection, repair or replace
Abnormal contact of wiring harness between CNTL1 (female) (4) and CNT02 (female) (1) with wiring harness between CNTL1 (female) (3) – CNT01 (female) (1), CNTL1 (female) (5) – CNT03 (female) (1), CNTL1 (female) (6) – CNT04 (female) (1)	After inspection, repair or replace
Abnormal contact of wiring harness between CNTL1 (female) (4) and CNL67 (female) (2) with +24V wiring harness	After inspection, repair or replace
Abnormal contact of wiring harness between CNTL1 (male) (4) and CNL67 (female) (2) with wiring harness between CNTL1 (male) (3) – CNL66 (female) (2), CNTL1 (male) (5) – CNL04 (female) (7), CNTL1 (male) (6) – CNL04 (female) (5)	After inspection, repair or replace
Abnormal contact of wiring harness between CNL04 (female) (4) and CNL67 (female) (5) with wiring harness between CNL04 (female) (1) – CNFS2 (female) (8), CNL04 (female) (3) – CNL57 (female) (1), CNL04 (female) (2) – CNL66 (female) (5), CNL04 (female) (5) – CNTL1 (male) (6), CNL04 (female) (6) – CNL66 (female) (3), CNL04 (female) (7) – CNTL1 (male) (5), CNL04 (female) (8) – CN37 (2) or CN38 (2)	After inspection, repair or replace
Defective transmission control switch	Replace

U42303

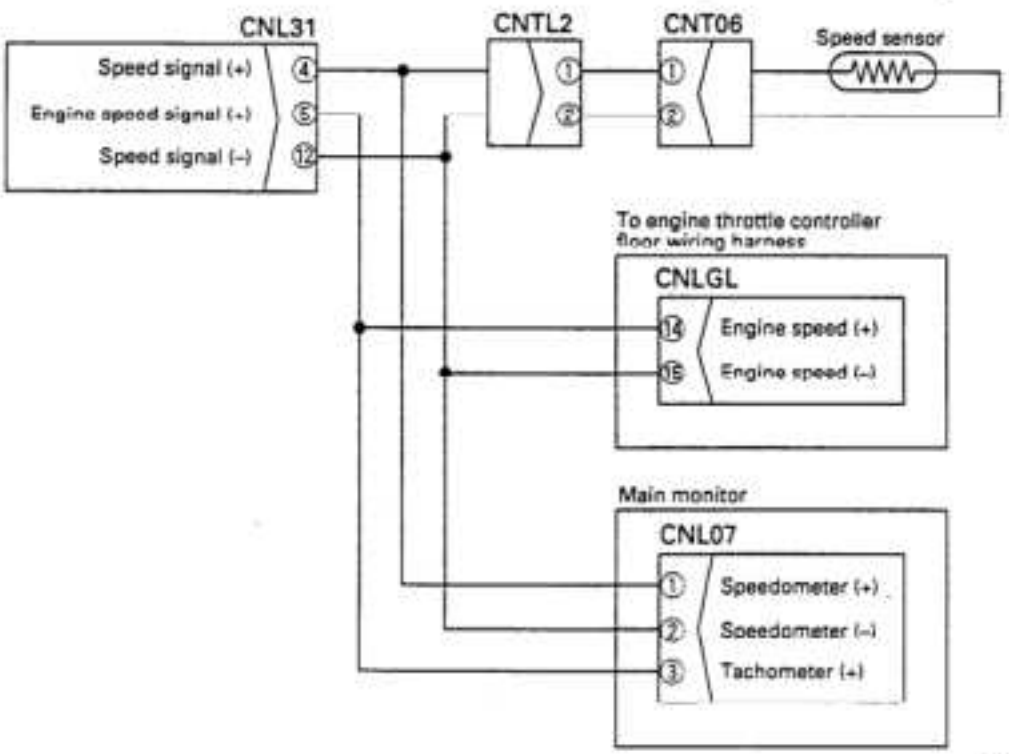
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A-10 Troubleshooting code [22] Abnormality in travel speed signal system

★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on the next step.
★ When disconnecting connectors to connect the T-adapter (or socket adapter), always turn the starting switch OFF.



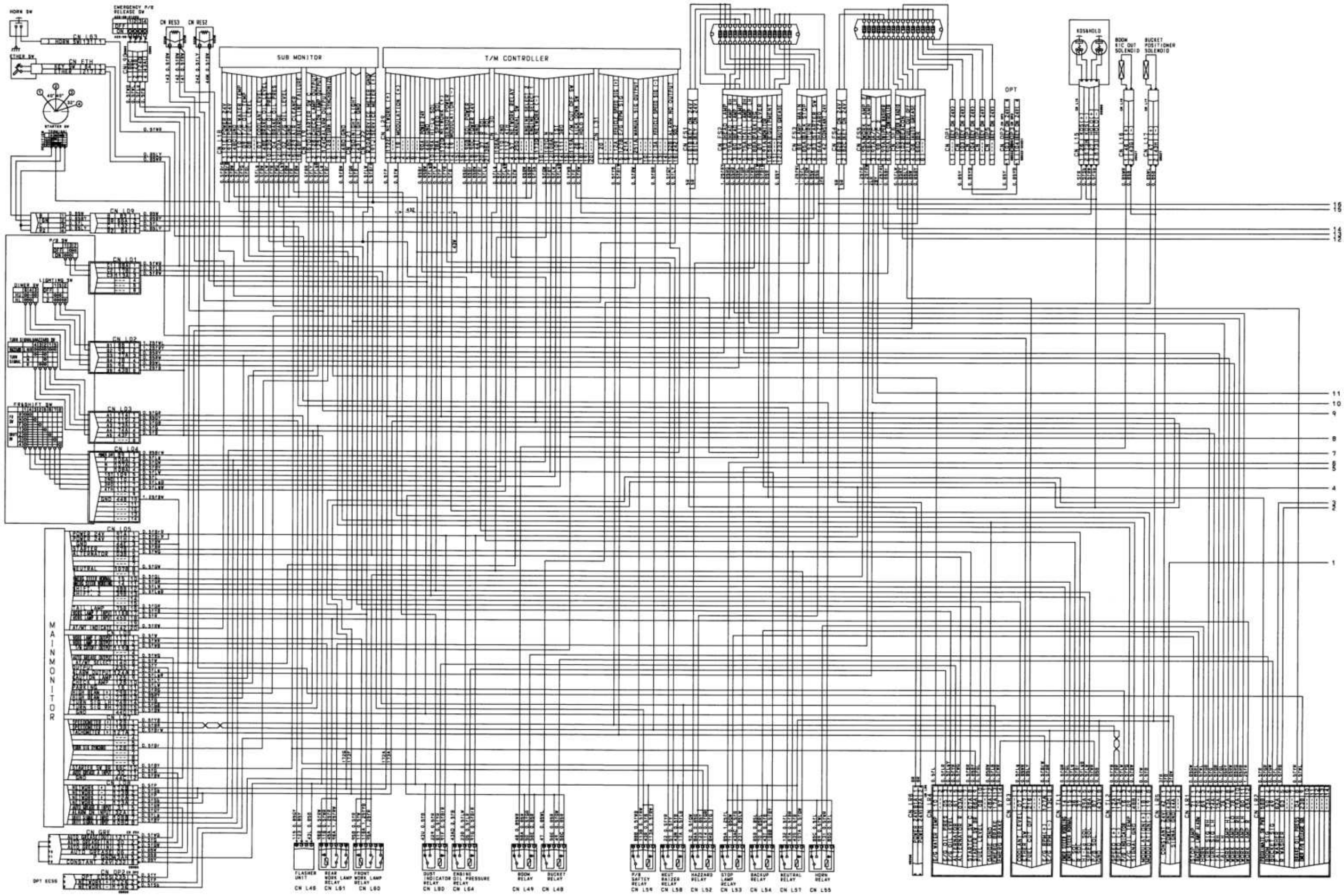
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FOLDOUT 10-156
ELECTRIC CIRCUIT DIAGRAM (1/4)



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