PART NO. TTNEM50-EN-00

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Reliable solutions

Technical Manual
Troubleshooting

ZW

250-6
Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TONEM50-EN
Technical Manual (Troubleshooting)	: Vol. No.TTNEM50-EN
Workshop Manual	: Vol. No.WNEM50-EN

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MC Fault Code List

Controller Hardware Failure

Fault Code	Trouble	Cause	Symptoms in machine operation when trouble occurs	Remedy
111000-2	Abnormal EEPROM	Faulty MC	-	Replace MC.
111001-2	Abnormal RAM	Faulty MC	-	Replace MC.
111002-2	Abnormal A/D Converter	Faulty MC	-	Replace MC.
111003-3	Abnormal Sensor Voltage	Faulty MC Faulty sensor Faulty wire harness	Although the accelerator pedal is operated, the engine speed does not change.	Check the sensor connected to MC. Check the wire harness. Replace MC.

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Fault Code	Trouble	Cause	Behavior of TCU	Repair Procedure
5620-4	Abnormal Output Signal Circuit of Transmission Failure Low Voltage	Grounding to body because of faulty harness. Faulty monitor controller. Grounding the connector pin to body.	-	Check the harness between TCU and column display controller. Check the connector between TCU and column display controller. Faulty column display controller.
5620-5	Open Circuit in Output Signal Circuit of Transmission Failure	Faulty connection of harness and TCU. Faulty monitor controller. Faulty connection of connector and TCU.	-	Check the harness between TCU and column display controller. Check the connector between TCU and column display controller. Faulty column display controller.
5620-3	Abnormal Output Signal Circuit of Transmission Failure High Voltage	Shorted circuit in power circuit because of faulty harness. Faulty monitor controller. Shorted circuit in power circuit by the connector pin.	-	Check the harness between TCU and column display controller. Check the connector between TCU and column display controller. Faulty column display controller.

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Parts / Item	Hydraulic Oil Temperature Sensor	Torque Converter Oil Temperature Sensor
Function	Detects hydraulic oil temperature.	Detects torque converter oil temperature.
Symptoms in control system when trouble occurs	MC recognizes that hydraulic oil temperature is 120°C (248°F) when open circuit occurs. (Hydraulic oil temperature: 120°C (248°F) is not displayed on monitoring.)	MC recognizes that torque converter oil temperature is 120°C (248°F) when open circuit occurs.
Symptoms in machine operation when trouble occurs	When hydraulic oil temperature is 0°C (32°F) or less when starting engine, auto-warming up control is not operated.	The color of transmission oil temperature on monitor is red. The alarm sounds and indicator is displayed.
Evaluation by Fault Code	111901	111011
Evaluation by Monitoring	MC: Hydraulic Oil Temperature	TCU: Torque Converter Oil Temperature
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