PART NO. TTPD850-EN-00

HITACHI

Reliable solutions

Technical Manual
Troubleshooting

ZW

180-6
Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOPD850-EN
Technical Manual (Troubleshooting)	: Vol. No.TTPD850-EN
Workshop Manual	: Vol. No.WPD850-EN

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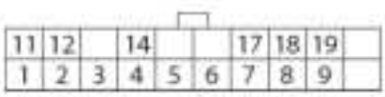
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Column Display Controller Fault Codes 120500 to 120505

Fault Code	Trouble	Procedure	Inspection Method	Evaluation	Cause
120500-2	Overheat Alarm	1	Disconnect a connector from the overheat switch. Retry by using MPDr.	Displayed fault code	YES: Faulty column display controller or short circuit in wire harness
					NO: Faulty overheat switch
120501-2	Engine Error	1	Diagnose on fault codes of ECM.	-	-
120502-2	Engine Oil Pressure Alarm	1	Diagnose on fault codes of ECM.	-	-
120503-2	Air Cleaner Restriction Alarm	1	Disconnect a connector from air filter restriction switch. Retry by using MPDr.	Displayed fault code	YES: Faulty column display controller or short circuit in wire harness
					NO: Faulty air cleaner restriction switch
120504-2	Hydraulic Oil Level Alarm	1	Disconnect a connector from the hydraulic oil level switch. Retry by using MPDr.	Displayed fault code	YES: Faulty column display controller or short circuit in wire harness
					NO: Faulty hydraulic oil level switch
120505-2	Brake Pressure Alarm	1	Disconnect a connector from the brake oil pressure switch. Retry by using MPDr.	Displayed fault code	YES: Faulty column display controller or short circuit in wire harness
					NO: Faulty brake oil pressure switch

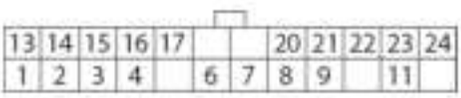
Connector (Wire harness end)

- Column Display Controller 1 Connector



TNEK-05-05-004

- Column Display Controller 2 Connector



TNEK-05-05-013

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Others

- Faulty air vent switch

Fault code is un-displayed.	Disconnection of link	Set the link again.
Fault code 43 (Abnormal air vent damper servo motor)	Faulty wire harness, open circuit, disconnection of connector	Check the wire harness.
	Faulty servo motor	Replace
	Caught foreign matter	Remove foreign matter.

- Faulty fresh / re-circulated air selection

Fault code is un-displayed.	Disconnection of link	Set the link again.
	Faulty wire harness, open circuit, disconnection of connector	Check the wire harness.
	Faulty servo motor	Replace
	Caught foreign matter	Remove foreign matter.

- Ambient temperature is higher or lower than set-temperature

Fault code 11 (Open circuit in re-circulated air temperature sensor)	Open circuit in wire harness, disconnection of connector	Check the wire harness.
	Open circuit in air circulation sensor	Replace
Fault code 12 (Short circuit in re-circulated air temperature sensor)	Short circuit in wire harness	Check the wire harness.
	Short circuit in air circulation sensor	Replace
Fault code is un-displayed. (Normal re-circulated air temperature sensor)	Faulty cooling, faulty heating	Check by referring to the items of faulty cooling and faulty heating.

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