PART NO. TTLBE50-EN-00

HITACHI

Reliable solutions

Technical Manual

Troubleshooting

ZX170W-6

Wheeled Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOLBE50-EN
Technical Manual (Troubleshooting)	: Vol. No.TTLBE50-EN
Workshop Manual	: Vol. No.WLBE50-EN
Engine Manual	: Vol. No.ETDC150-EN, EWDC150-EN

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Fault Code	Trouble	Cause	Symptoms in Machine Operation When Trouble Occurs	Remedy
15530-2	Positioning 2 P/V Abnormal Current FB	Feedback current: more than 920 mA and less than 60 mA; both are detected.	Positioning operation is stopped.	Check the wire harness.
15530-3	Positioning 2 P/V Abnormal High Current FB	Current: more than 920 mA	Positioning operation is stopped.	Check the wire harness.
15530-4	Positioning 2 P/V Abnormal Low Current FB	Current: less than 56 mA	Positioning operation is stopped.	Check the wire harness.
15531-5	Outrigger/Blade ON/ OFF Valve 1 (Front Left) Open Circuit	The circuit of blade/outrigger solenoid valve (front left) is abnormal.	Blade/outrigger (front left) operation is stopped.	Check the wire harness.
15532-5	Outrigger/Blade ON/ OFF Valve 2 (Front Right) Open Circuit	The circuit of blade/outrigger solenoid valve (front right) is abnormal.	Blade/outrigger (front right) operation is stopped.	Check the wire harness.

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MC Fault Codes 11008, 11010, 11016 Monitor Controller (Monitor) Fault Codes 13004, 13006, 13007

Preparation

- Check the wiring connections first.
- Check the CAN1 harness between the controllers. (Refer to CAN1 Harness Check.)

Fault Code	Trouble	Inspection Method	Cause
11008-2	(MC) IC Communication Error 2	Continuity check (open circuit)	Open circuit in wire harness
		Discontinuity check	Short circuit in wire harness
11010-2	(MC) Monitor Controller Communication Error 2	Continuity check (open circuit)	Open circuit in wire harness
		Discontinuity check	Short circuit in wire harness
11016-2	(MC) Option Controller Communication Error 2	Continuity check (open circuit)	Open circuit in wire harness
		Discontinuity check	Short circuit in wire harness
13004-2	(Monitor Controller) Main Controller Communication Error 2	Continuity check (open circuit)	Open circuit in wire harness
		Discontinuity check	Short circuit in wire harness
13006-2	(Monitor Controller) ICF Communication Error 2	Continuity check (open circuit)	Open circuit in wire harness
		Discontinuity check	Short circuit in wire harness
13007-2	(Monitor Controller) Body Controller Communication Error	Continuity check (open circuit)	Open circuit in wire harness
		Discontinuity check	Short circuit in wire harness

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E-4 ECO mode is faulty.

	Specification (min^{-1})	Remark
Fast Idle Speed (ECO mode)	1450±50	No load

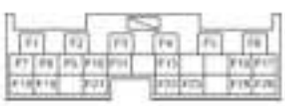
Preparation

- In case other trouble symptoms occur, perform troubleshooting of these troubles first.
- The sensors detect the conditions necessary to operate ECO mode. Therefore, if these sensors fails, the power mode does not shift to ECO mode.
- Pump 1, 2 control pressure sensors, pump 1, 2 delivery pressure sensors are also related to the ECO mode control. However, if these sensors fail, other operating functions will be also affected.
- Refer to SYSTEM/Control System/ECO Mode Control.
- Check the wiring connections first.

Procedure	Inspection Method	Condition	Evaluation	Cause
1	Check continuity between MC1 harness end #F9 and the body.	Power Mode Switch: ON	∞ Ω	YES: Open circuit in wire harness between power mode switch and MC1
				NO: Go to Procedure No. 2
2	Monitor Power Mode Switch and turn ON the power mode switch.	Key Switch: ON	OFF is displayed	YES: Faulty power mode switch
				NO: Faulty MC1

Connector (Wire harness end)

- MC1-F Connector



TLBE-05-06-001

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Rewrite of Aftertreatment Device Serial No.

When the aftertreatment device has been replaced, rewrite the serial No. of aftertreatment device and upload the data to e-Service.

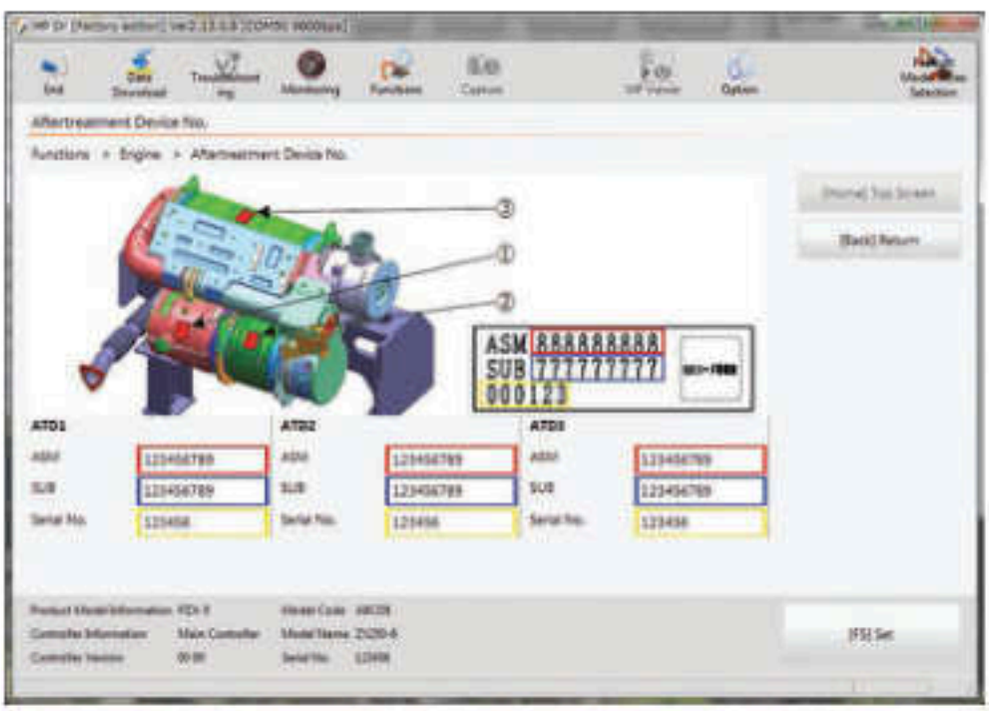
Procedure

1. Connect MPDr..
2. Set the key switch to the ON position.
3. Select Functions-Engine-Aftertreatment Device No. with MPDr..
4. Input the serial No. after the replacement to the following items of Oxidation Catalyst (DOC) and SCR Catalyst.

- ASM
- SUB
- Serial No.

5. After inputting, select Set.
6. Upload the input data to e-Service.

NOTE: When the input data is uploaded to e-Service, the M-Find product specification and history will be updated.



TLBE-04-06-001EN

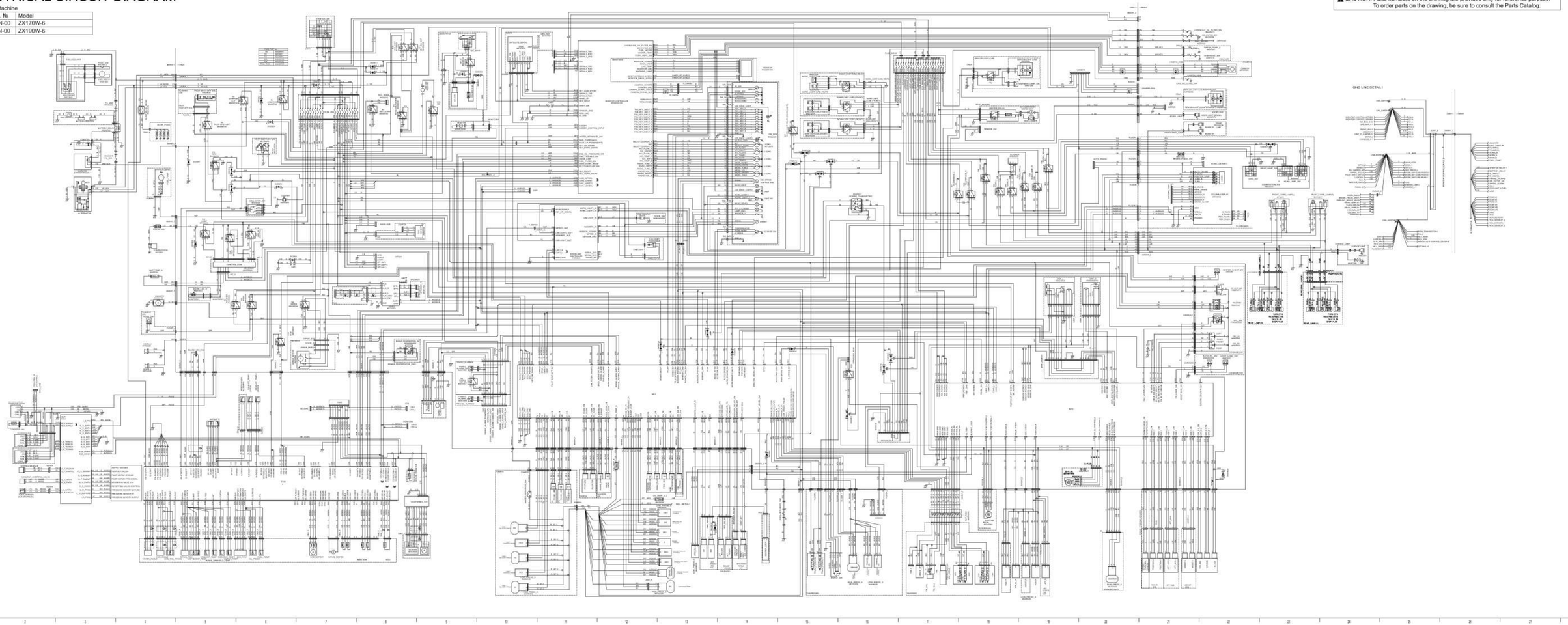
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ELECTRICAL CIRCUIT DIAGRAM

Applicable Machine

Attach to vol. No.	Model
TTLBE50-EN-00	ZX170W-6
TTLBF50-EN-00	ZX190W-6

▲CAUTION: Parts numbers on the drawing are provided only for reference purpose.
To order parts on the drawing, be sure to consult the Parts Catalog.



TTLBE50-EN-00

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