PART NO. TTLBF50-EN-00

HITACHI

Reliable solutions

Technical Manual

Troubleshooting

ZX190W-6

Wheeled Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOLBF50-EN
Technical Manual (Troubleshooting)	: Vol. No.TTLBF50-EN
Workshop Manual	: Vol. No.WLBF50-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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E-4 ECO mode is faulty.

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

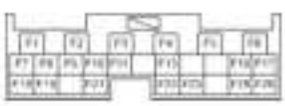
Preparation

- 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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- Circuit_2

1. POSITIONING SOLENOID VALVE SUB HARNESS
   POSITIONING PRESSURE SENSOR SUB HARNESS
2. AUXILIARY SOLENOID VALVE SUB HARNESS
   AUXILIARY SUB HARNESS
3. AUXILIARY FLOW COMBINER HARNESS
   AIR SUSPENSION, HEATER SEAT HARNESS
4. BREAKER HARNESS
   BREAKER SUB HARNESS
5. FUEL SOLENOID PUMP SWITCH HARNESS
6. ASSIST PRESSURE SENSOR SUB HARNESS
   ASSIST SOLENOID VALVE SUB HARNESS
7. ADDITIONAL PUMP PRESSURE SENSOR HARNESS
   BOOM BOTTOM PRESSURE SENSOR HARNESS
8. WORK LIGHT (BOOM) (MONOBLOCK BOOM) HARNESS
   WORK LIGHT (BOOM) (2-PIECE BOOM) HARNESS
9. POSITIONING LIGHT HARNESS
   POSITIONING LIGHT SUB HARNESS
10. FRONT HEADLIGHT (CAB) HARNESS
    WORK LIGHT (CAB) (FRONT 1) HARNESS
11. WORK LIGHT (CAB) (FRONT 2) HARNESS
    WORK LIGHT (CAB) (REAR) HARNESS
12. WORK LIGHT (CAB) (REAR) SWITCH HARNESS
    12 V POWER HARNESS
13. BEACON LIGHT (COUNTERWEIGHT) HARNESS
    BEACON LIGHT SWITCH HARNESS
14. BEACON LIGHT (CAB) HARNESS
    BEACON LIGHT (CAB) SUB HARNESS
15. LICENSE PLATE LIGHT HARNESS
    LICENSE LIGHT HARNESS
16. QUICK HITCH HARNESS
    QUICK HITCH SWICH HARNESS
17. PIN JACK HARNESS
    PIN JACK SUB HARNESS

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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.

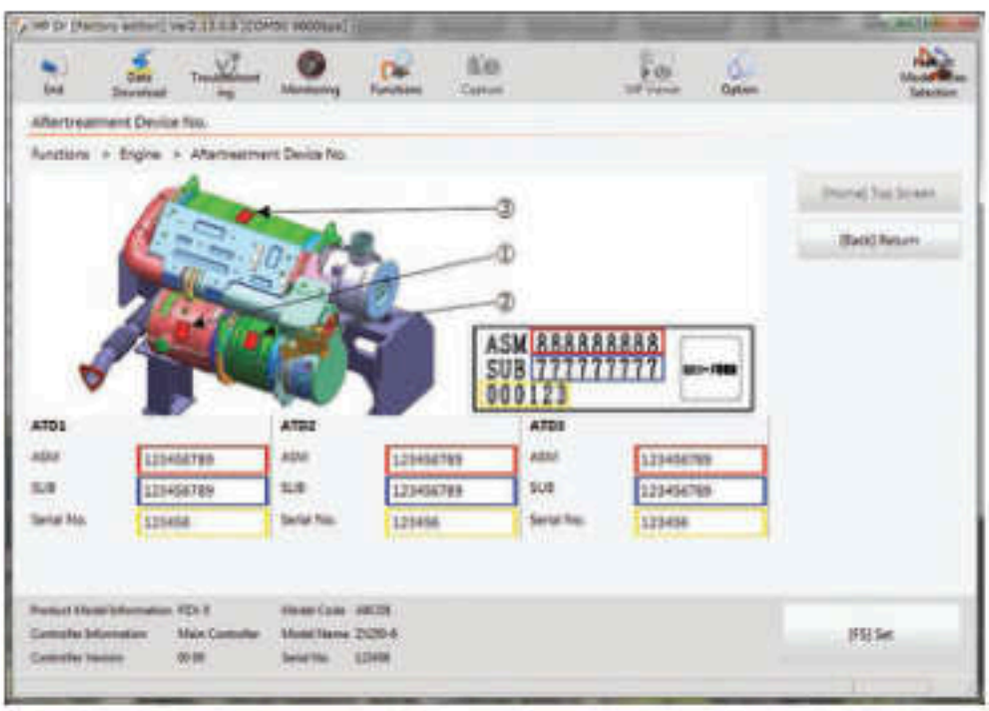
Procedure

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.



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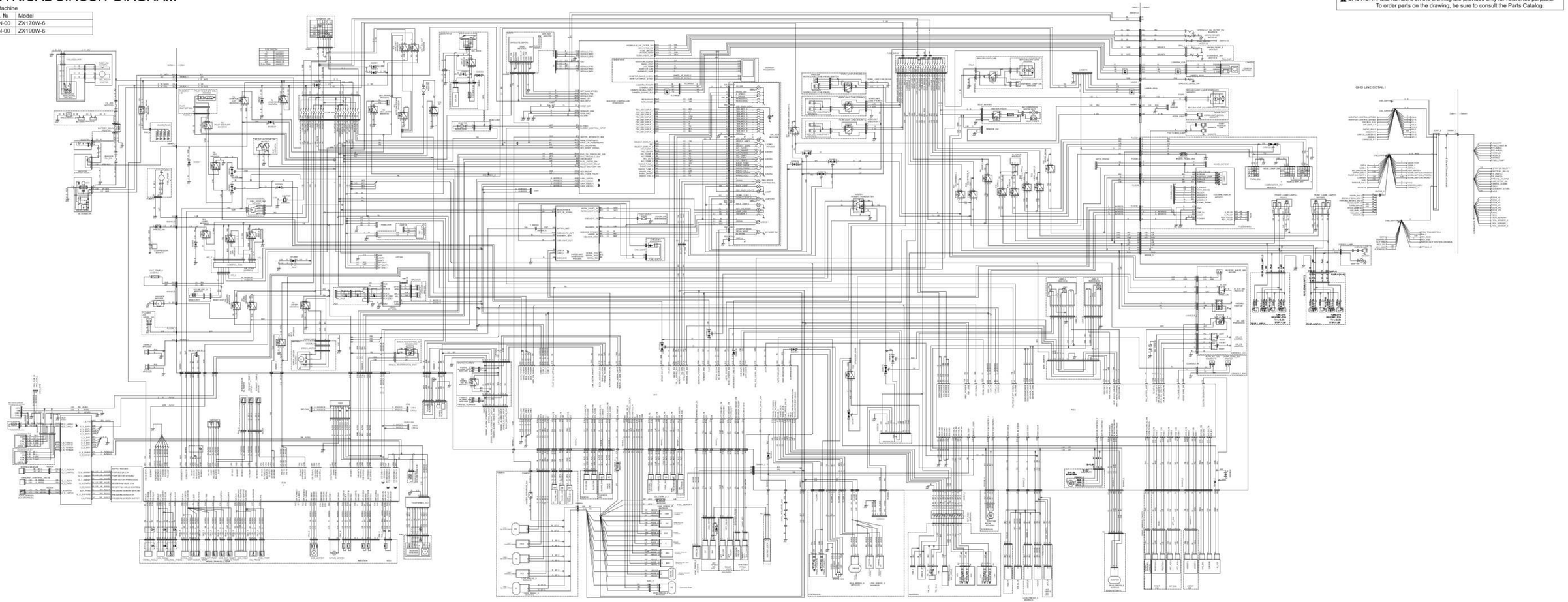
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ELECTRICAL CIRCUIT DIAGRAM

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.



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