PART NO. TTLBKE0-EN-00

HITACHI

Reliable solutions

Technical Manual

Troubleshooting

ZX190W-5A

Wheeled Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOLBKE0-EN
Technical Manual (Troubleshooting)	: Vol. No.TTLBKE0-EN
Workshop Manual	: Vol. No.WLBKE0-EN
Engine Manual	: Vol. No.ETDCY-EN, EWDCY-EN

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SECTION 4

OPERATIONAL PERFORMANCE TEST

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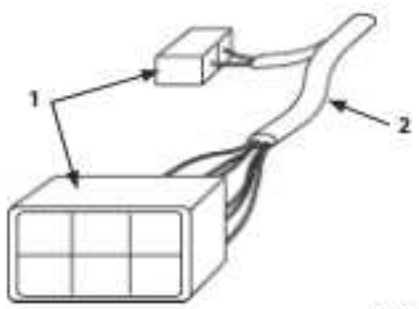
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Troubleshooting B (Machine Diagnosis by Using Trouble Symptom) Procedure

Refer to troubleshooting B procedures for diagnosis by using trouble symptom when no fault codes are displayed.

- Diagnosis Procedure
  - Perform diagnosis by using MPDr. or the service menu of monitor first.
  - When the fault code is displayed, refer to the troubleshooting A group and diagnose.
  - In case any fault code has not been displayed by diagnosis, perform inspection according to the procedures in this group when diagnosing.
  - On the front section pages of this group, there are the tables indicating the relationship between machine trouble symptoms and related parts which may cause such trouble if failed. Start the troubleshooting with more probable causes selected by referring to these tables.

NOTE: All connector images in this section are viewed from the open end side of wire harness end.



T6L4-05-03-001

1- Wire Harness End Connector 2- Wire Harness

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F-2 Even if power digging switch is pushed, power does not increase or boom raise power is weak when performing digging operation.

Main Relief Valve Set Pressure	Specification (MPa)	Remark
Boom Raise (Relief operation), Power Digging	$36.3^{+2.0}_{-1.0}$	

Preparation

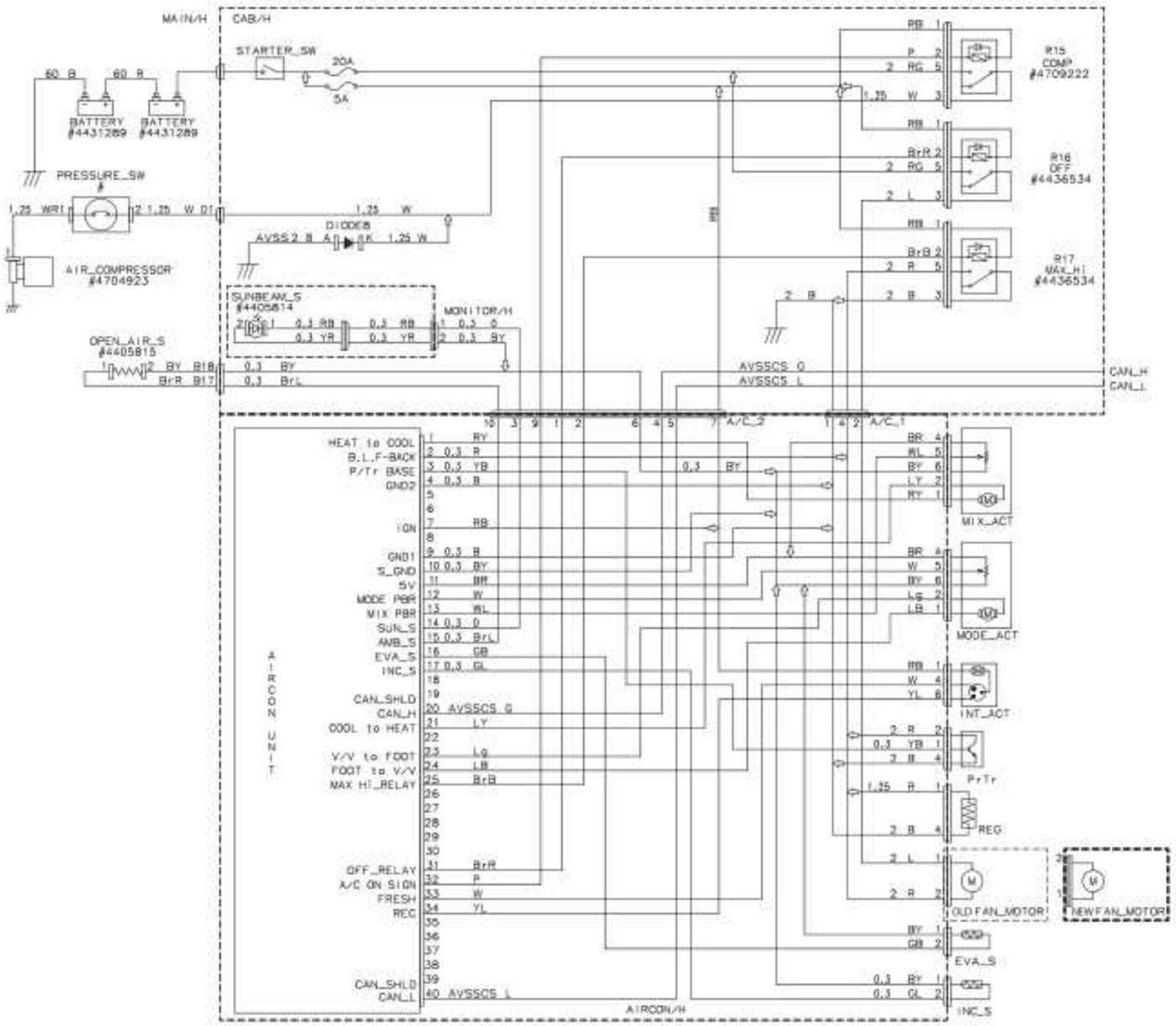
- Refer to SYSTEM/Control System/Power Digging Control and Auto-Power Lift Control.
- Check the wiring connections first.

Procedure	Inspection Method	Condition	Evaluation	Cause
1	Monitor Power Boost Switch.	Power Digging Switch: ON	OFF is displayed.	YES: Faulty power digging switch or open circuit in wire harness between power digging switch and MC
				NO: Go to Procedure No. 2
2	Monitor Pump 1 Delivery Pressure and Pump 2 Delivery Pressure.	Relieve boom raise circuit.	The measured values are out of the specification. (Specification: 35.3-38.3 MPa)	YES: Faulty main relief valve
				NO: Faulty MC

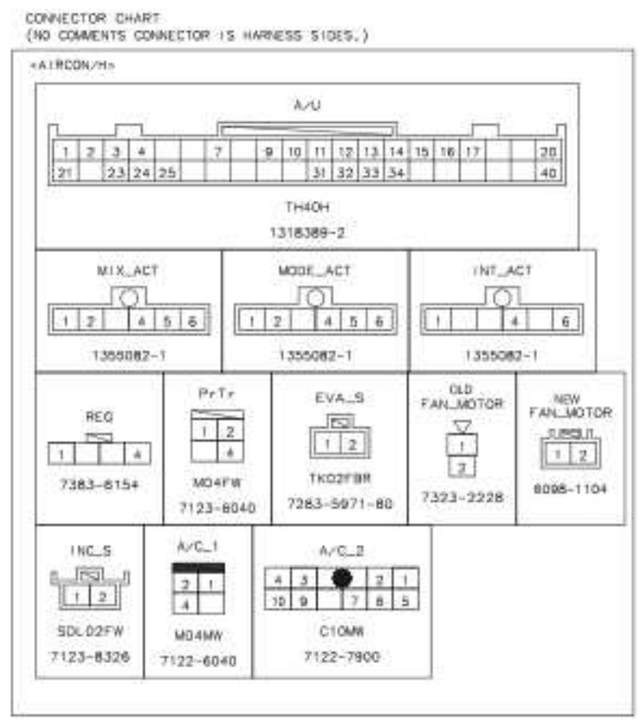
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AIR CONDITIONER CIRCUIT DIAGRAM

⚠ 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.



CONNECTOR CHART
(NO COMMENTS CONNECTOR IS HARNESS SIDES.)



Applicable Machine

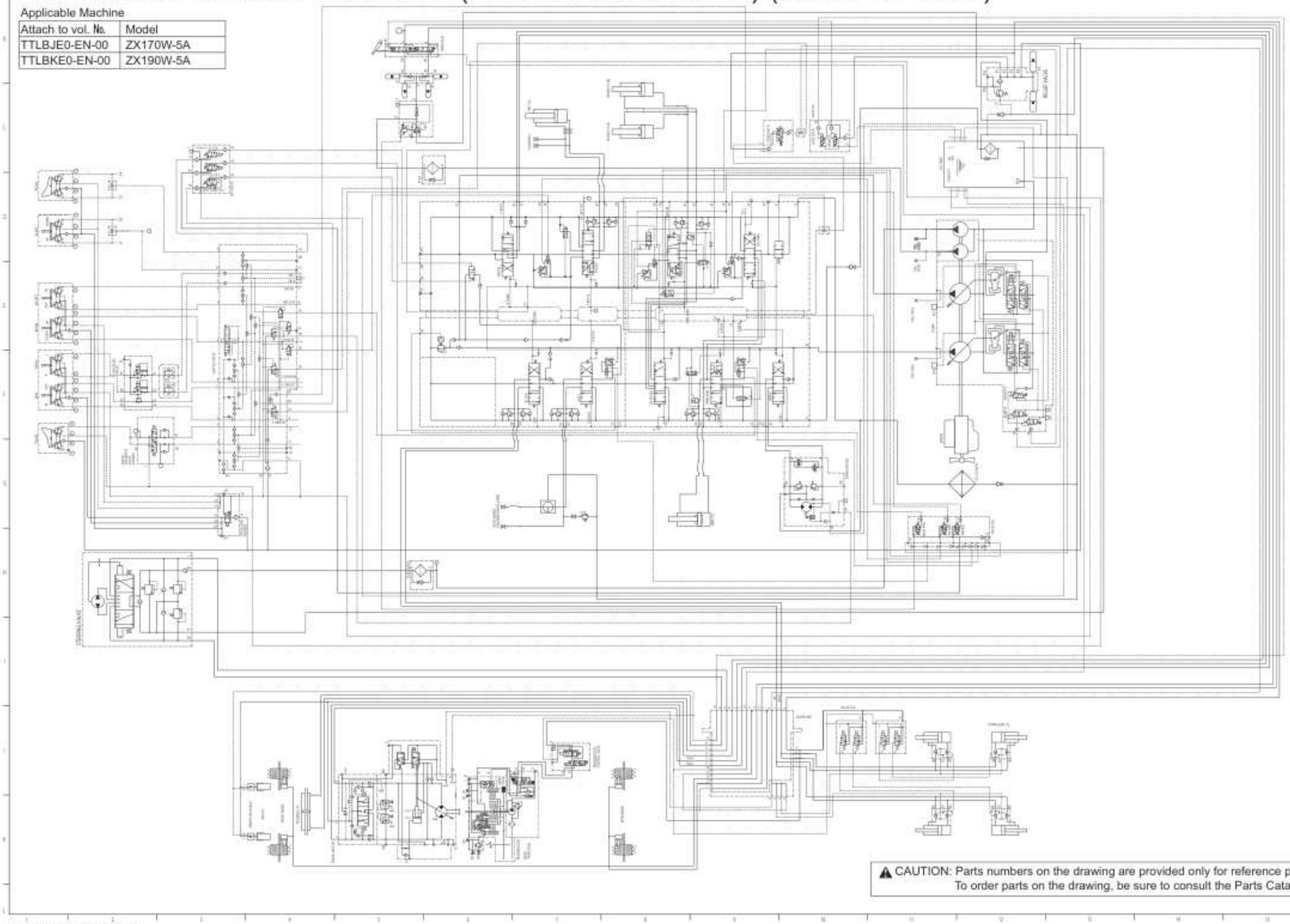
Attach to vol. No.	Model
TTLBJE0-EN-00	ZX170W-5A
TTLBKE0-EN-00	ZX190W-5A
TTLCDE0-EN-00	ZX210W-5A

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HYDRAULIC CIRCUIT DIAGRAM (MONOBLOCK BOOM) (FULLY OPTION)

Applicable Machine

Attach to vol. No.	Model
TTLBJE0-EN-00	ZX170W-5A
TTLBKE0-EN-00	ZX190W-5A



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