PART NO. TTCGB-E-00

HITACHI

Technical Manual

Troubleshooting

ZAXIS

170W-3
190W-3

Wheeled Excavator

Service Manual consists of the following separate Part No;

Technical Manual (Operational Principle)	: Vol. No.TOCGB-E
Technical Manual (Troubleshooting)	: Vol. No.TTCGB-E
Workshop Manual	: Vol. No.WCGB-E

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SECTION 4

OPERATIONAL PERFORMANCE TEST



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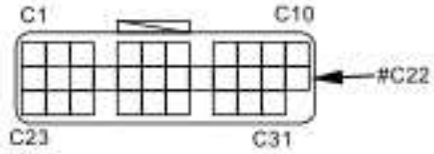
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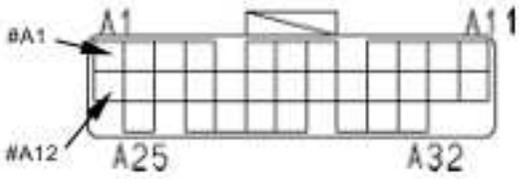
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- Option Controller
  Between CAN Circuit (Low Side) and Power Circuit
  - Check for continuity between terminal #C22 (harness end) of connector C and terminal #A1 (harness end) of connector A.
  - Check for continuity between terminal #C22 (harness end) of connector C and terminal #A12 (harness end) of connector A.
  - Check for continuity between terminal #C22 (harness end) of connector C and terminal #B7 (harness end) of connector B.
  - Check for continuity between terminal #C22 (harness end) of connector C and terminal #B17 (harness end) of connector B.
  - Check for continuity between terminal #C22 (harness end) of connector C and terminal #B24 (harness end) of connector B.

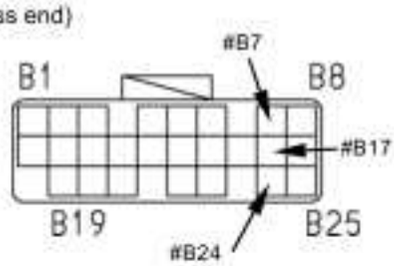
Connector
Connector C
(Harness end)



Connector A
(Harness end)



Connector B
(Harness end)



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TROUBLESHOOTING B PROCEDURE

Apply troubleshooting B procedure when no fault code is displayed on the service menu (built-in diagnosing system) in monitor unit and the diagnosing by Dr. ZX although the machine operation is abnormal. When the fault code is displayed, refer to the troubleshooting A group and diagnose.
On the front section pages of this group 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 tablesHow to Read the Troubleshooting Flow Charts

- How to read troubleshooting flowchart



- After checking or measuring item (1), select either YES (OK) or NO (NOT OK) and proceed to item (2) or (3), as appropriate.



- Special instructions or reference item are indicated in the spaces under the box. Incorrect measuring or checking methods will render troubleshooting impossible, and may damage components as well.

Key switch: ON



- Explanation of how to use test harness kit required. Refer to "Electrical System Inspection" Group (Group 8) in this section.

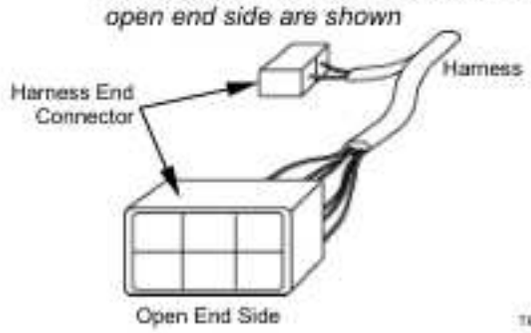


- Use the service menu (built-in diagnosing system) in the monitor unit or the diagnosing system / monitor function in Dr. ZX.

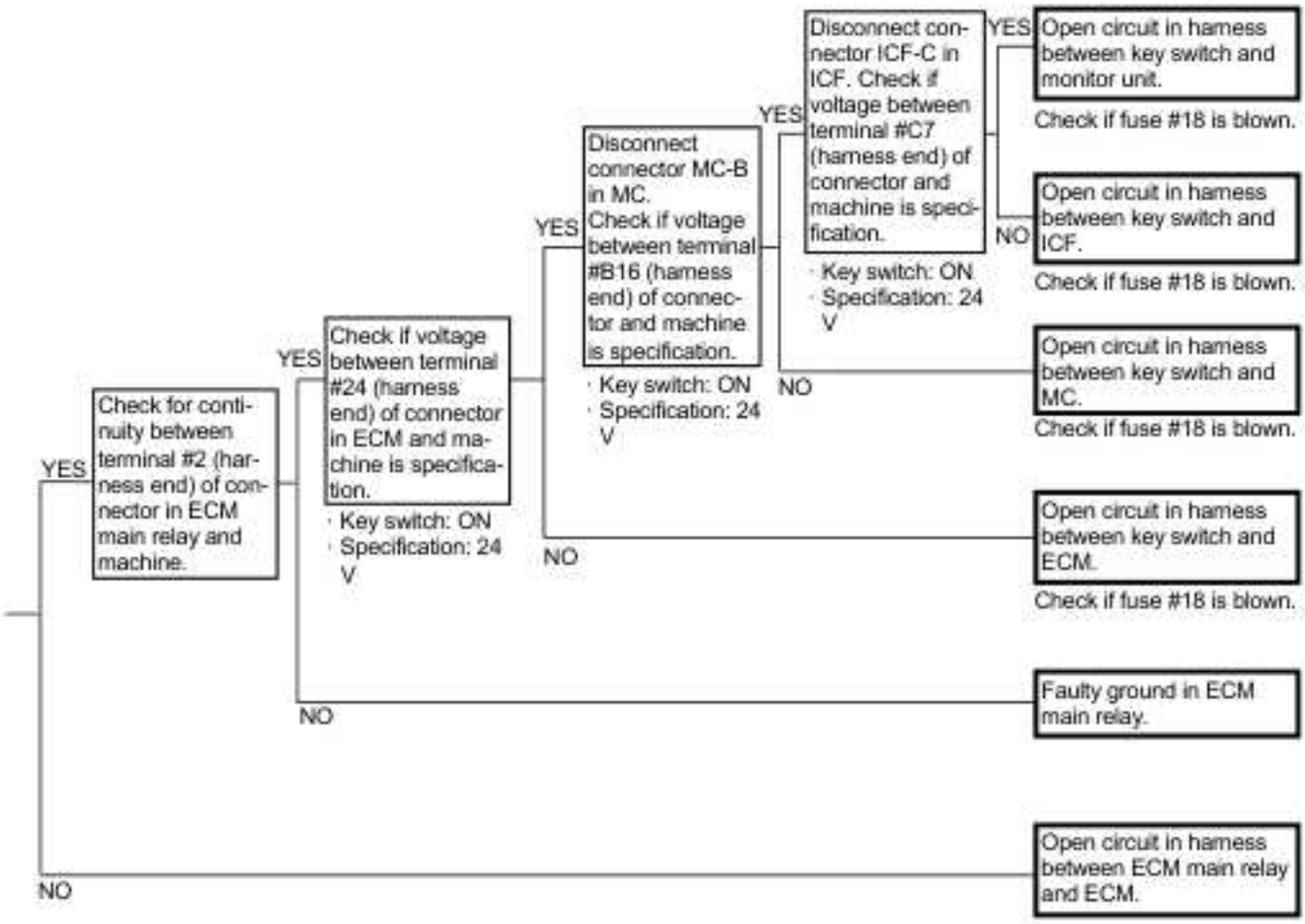


- Causes are stated in a thick-line box. Scanning through thick-line boxes, possible causes can be seen without going through the flow chart.

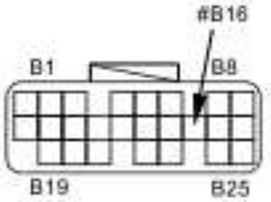
NOTE: For all connector shown in this group, harness end connector viewed from the open end side are shown



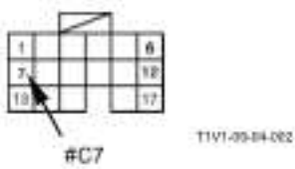
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Connector MC-B

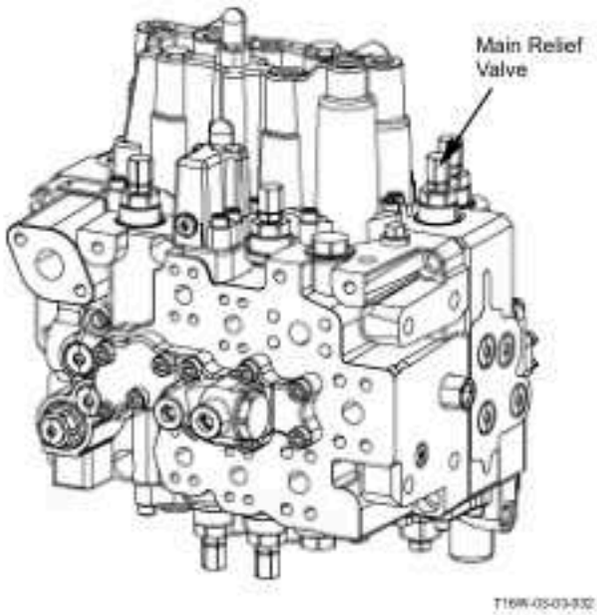


Connector ICF-C



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NOTE: If the measure pressures for all functions are lower than the specified range, the probable cause is a decrease of the main relief valve setting pressure.
If the relief pressure of a particular function is lower, the probable cause is other than main relief valve.

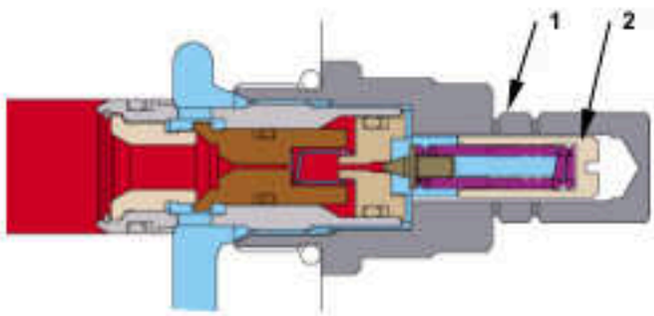


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Main Relief Pressure Setting Adjustment Procedure

Adjustment:

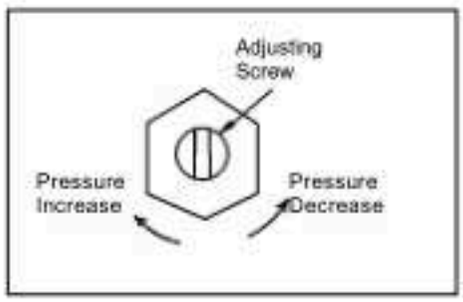
1. Loosen lock nut (1).
   : 17 mm
   : 19.5 N·m (2 kgf·m, 14.5 lbf·ft)
2. Turn adjusting screw (2) to adjust the main relief set pressure referring to the table below.
3. Retighten lock nut (1).
4. Recheck the set pressures.



T17B-03-03-210

NOTE: Standard Change in Pressure (Reference)

Plug Turns		1/4	1/2	3/4	1
Change in Relief Pressure	MPa	2.79	5.59	8.36	11.2
	(kgf/cm^2)	(28.5)	(57)	(85.2)	(114)
	(psi)	(405)	(811)	(1212)	(1620)



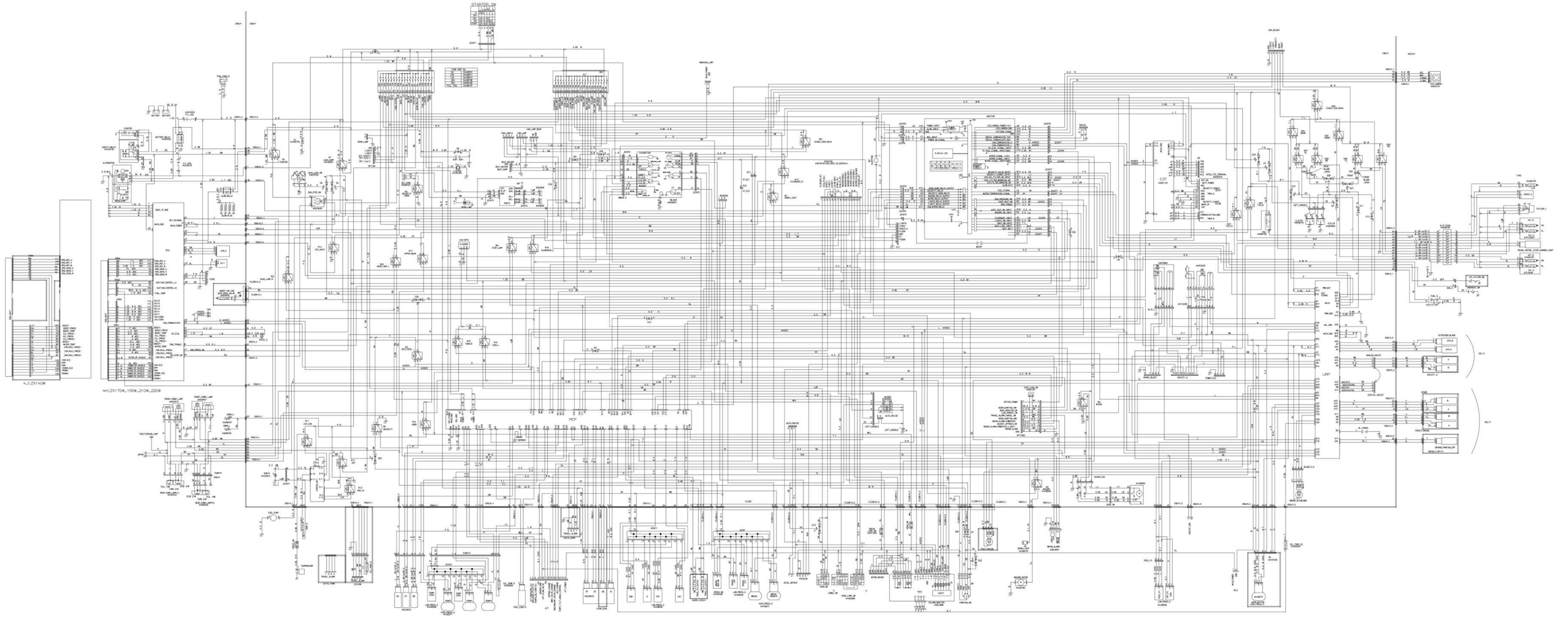
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Attach to Vol. No.: TTCEB-E-00, TTCGB-E-00, TTCJB-E-00

ZAXIS140W-3/170W-3/190W-3/210W-3/220W-3 ELECTRICAL CIRCUIT DIAGRAM (STANDARD)

⚠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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