PART NO.

HITACHI

Technical Manual

Troubleshooting

EX

EX1900-5

Hydraulic Excavator

Service Manual consists of the following separate Part No.
Technical Manual (Operational Principle)
Technical Manual (Troubleshooting)
Workshop Manual

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SECTION 4

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INTRODUCTION

Refer to the inspection and troubleshooting procedures after any machine trouble has occurred. The inspection and troubleshooting procedures are presented in an orderly fashion in this section to help you quickly find the cause and solution of the machine trouble.

The troubleshooting section in this manual consists of 6 groups; General, Component Layout, Troubleshooting A (engine diagnosis indicated by the flashing pattern of indicator lights), Troubleshooting B (base machine diagnosis starting with inspection of abnormal operational status), Troubleshooting C (monitor diagnosis), and Electrical System Inspection.

- General
- Component Layout

- Troubleshooting A (engine diagnosis relies on the flashing pattern of indicator lights)
  The engine is diagnosed by referring to the flashing pattern of the engine stop indicator and the engine warning indicator.

- Troubleshooting B (base machine diagnosis starting with inspection of abnormal operational status)
  Refer to these procedures when troubleshooting by inspecting abnormal machine operational status.

  Example: Even if the fuel lever is operated, engine speed doesn't change.

- Troubleshooting C (monitor diagnosis)
  Refer to these procedures when gauges and/or indicators are malfunctioning.

  Example: The fuel gauge doesn't operate.

- Electrical System Inspection
  Refer to this group when required to obtain precautions and/or information for the electrical system inspection.

  Example: Fuse Inspection

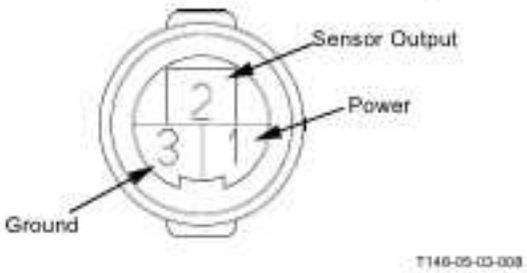
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Inspection Method

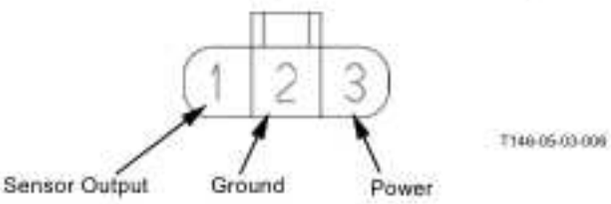
Referring to the trouble status shown in the table, check the harness between the ECM and each sensor for discontinuity and short circuit. When the harness is normal, either the corresponding sensor or the ECM may be faulty.

Connector Terminal Layout of ECM and Sensors

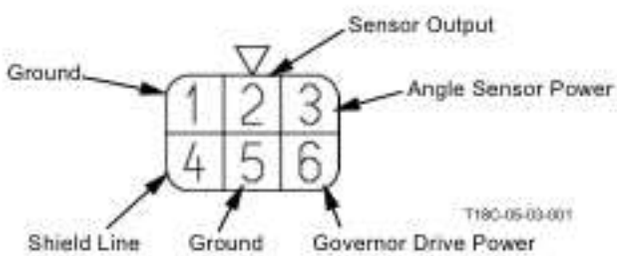
Acceleration Sensor (Harness End Connector)



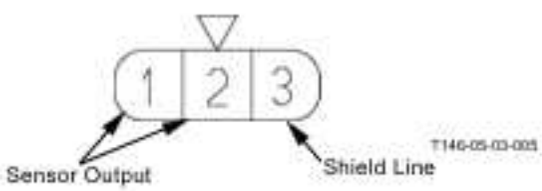
Boost Pressure Sensor (Harness End Connector)



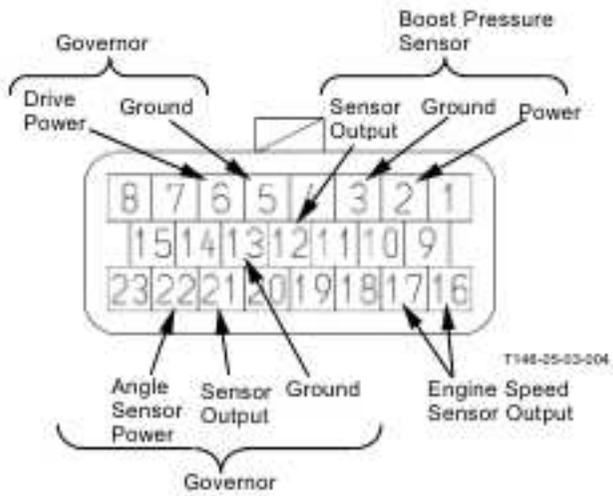
Governor (Harness End Connector)



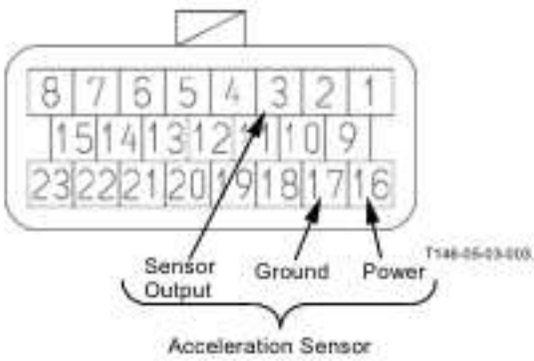
Engine Speed Sensor 2 (Harness End Connector)



ECM J1 Connector (Black) (Harness End Connector)



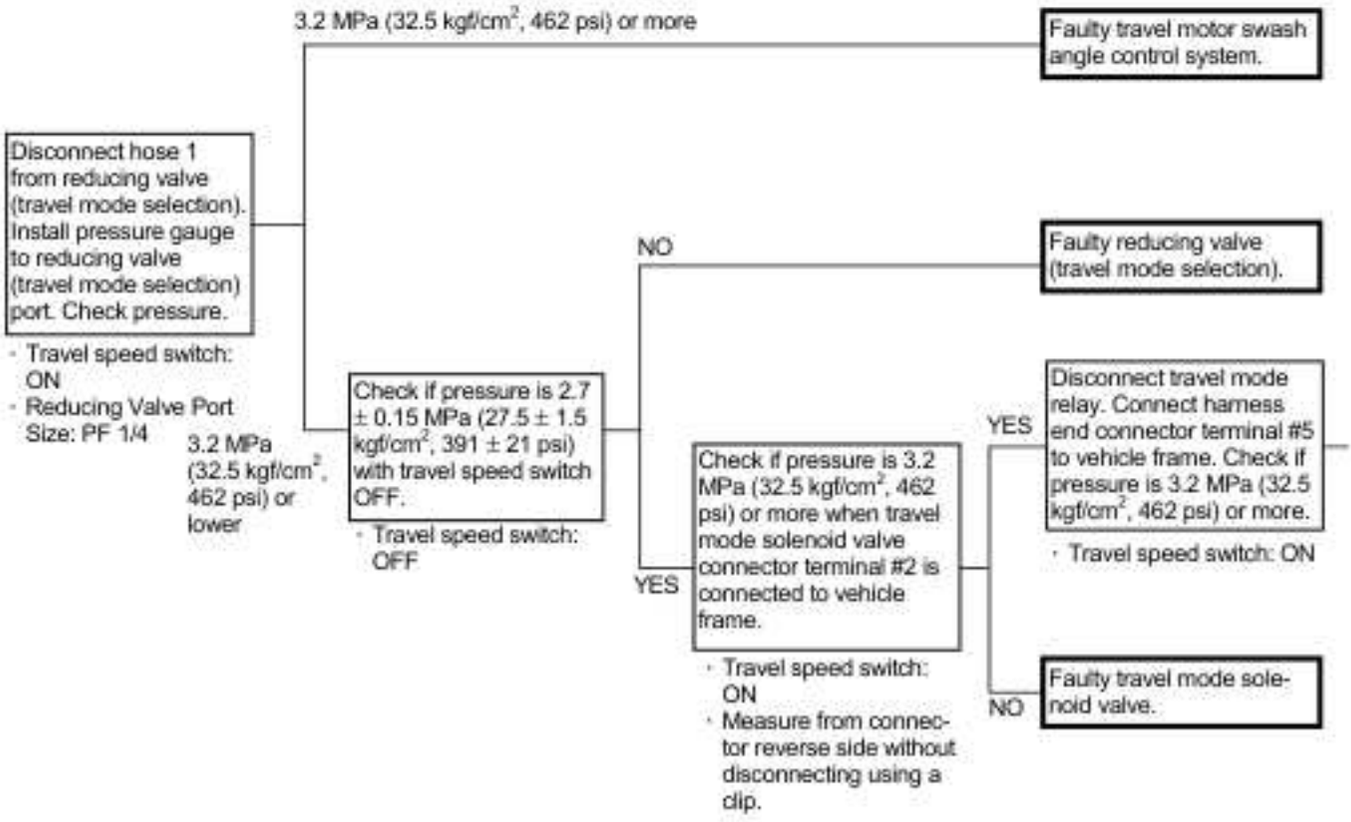
ECM J2 Connector (White) (Harness End Connector)

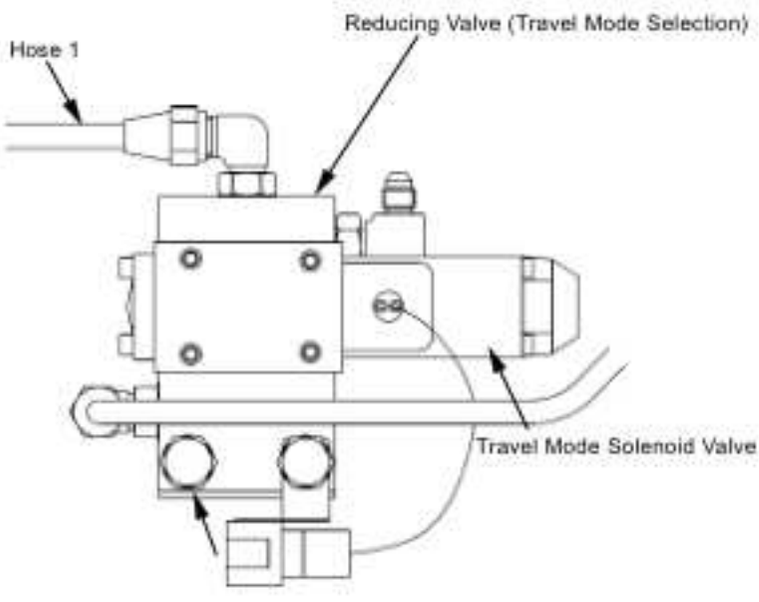


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T-2 Fast travel mode is not selected.

- Check for loose harness connections beforehand.





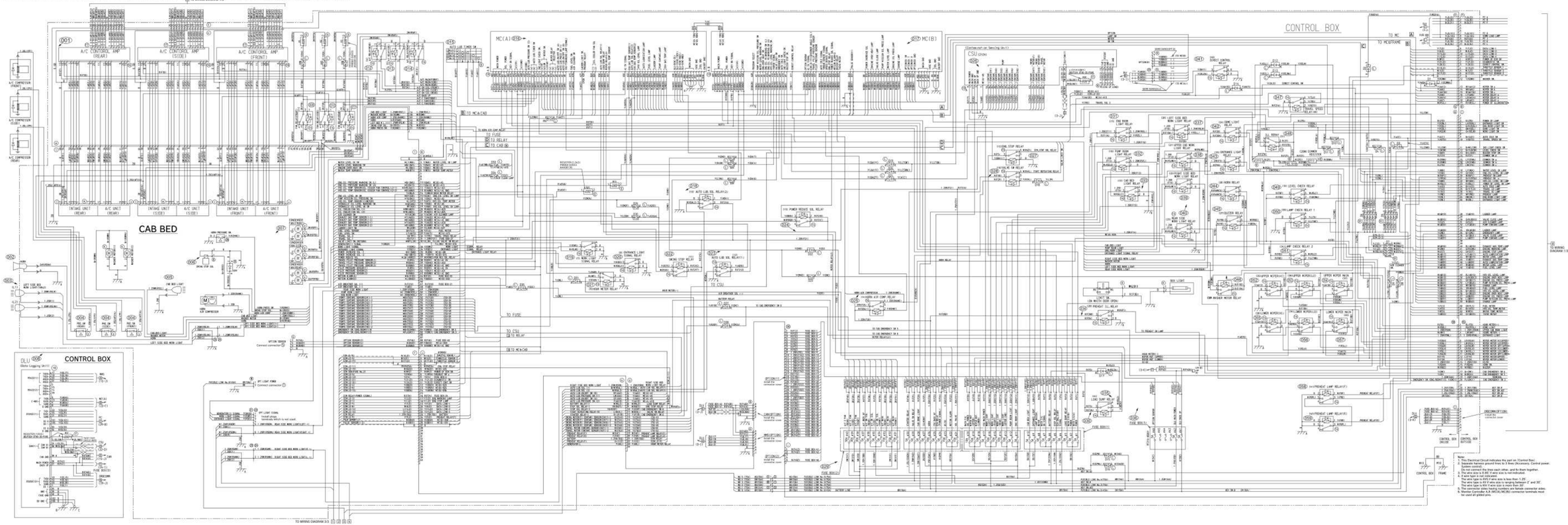
T18C-05-04-005

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EX1900-5 ELECTRICAL CIRCUIT DIAGRAM 2/3

Authorized Hitachi Dealer Use Only.
Parts numbers on the drawing are provided only for reference.
To order parts on the drawing,be sure to consult the parts catalog.

IMPORTANT:
The numbers (001) to (059) indicate the No. in the cross reference table.
Refer to the cross reference table in T5-2 group.



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