PART NO. TT1J1-E-00

HITACHI

Technical Manual

Troubleshooting

ZAXIS

450-3
450LC-3
470H-3
470LCH-3
500LC-3
520LCH-3

Hydraulic Excavator

Service Manual consists of the following separate Part No;

Technical Manual (Operational Principle)	: Vol. No.TO1J1-E
Technical Manual (Troubleshooting)	: Vol. No.TT1J1-E
Workshop Manual	: Vol. No.W1J1-E

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SECTION 4

OPERATIONAL PERFORMANCE TEST



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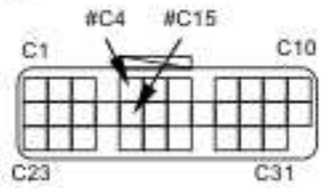
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- Between MC and ICF
  CAN Harness (High Side)
  Check for continuity between terminal #C4 of harness end of connector MC-C in MC and terminal #C5 of harness end of connector ICF-C in ICF.

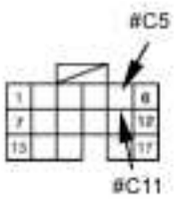
  CAN Harness (Low Side)
  Check for continuity between terminal #C15 of harness end of connector MC-C in MC and terminal #C11 of harness end of connector ICF-C in ICF.

Connector

MC
Connector MC-C
(Harness end)



ICF
Connector ICF-C
(Harness end)

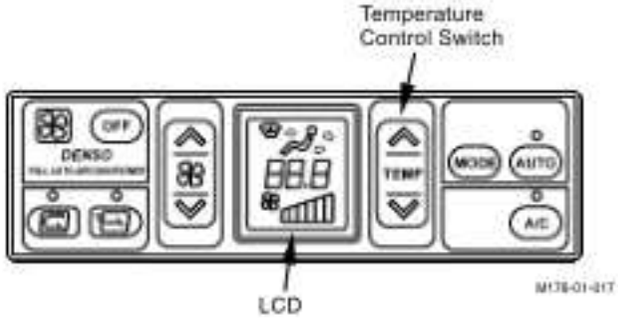


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- Change Displayed Fault Code
  When displaying more than one fault code, press either the upper or bottom side of the temperature control switch key. The following fault code is displayed.

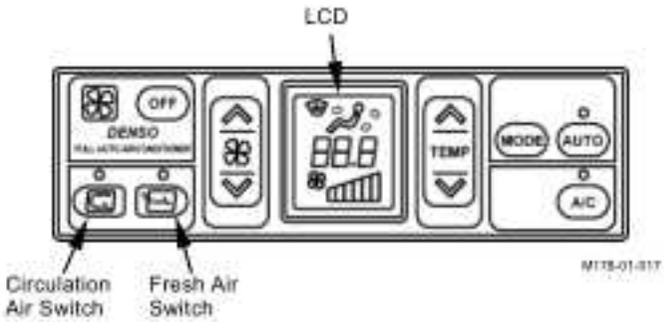
NOTE: Each time the displayed fault code is changed, the buzzer sounds. In case only one fault code exists, the displayed fault code remains unchanged.



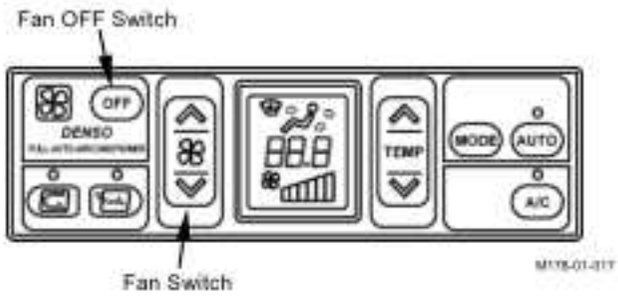
- Delete Fault Code
  1. Press and hold both the circulation air switch and the fresh air switch for more than 3 seconds at the same time to delete the fault code.

NOTE: After the fault code is deleted, the buzzer will sound.

  2. After the fault code has been deleted, the LCD displays [E00].



- End Fault Code Display
  Press the fan OFF switch, or press the upper side of the fan switch key. The self-diagnostic mode is complete.

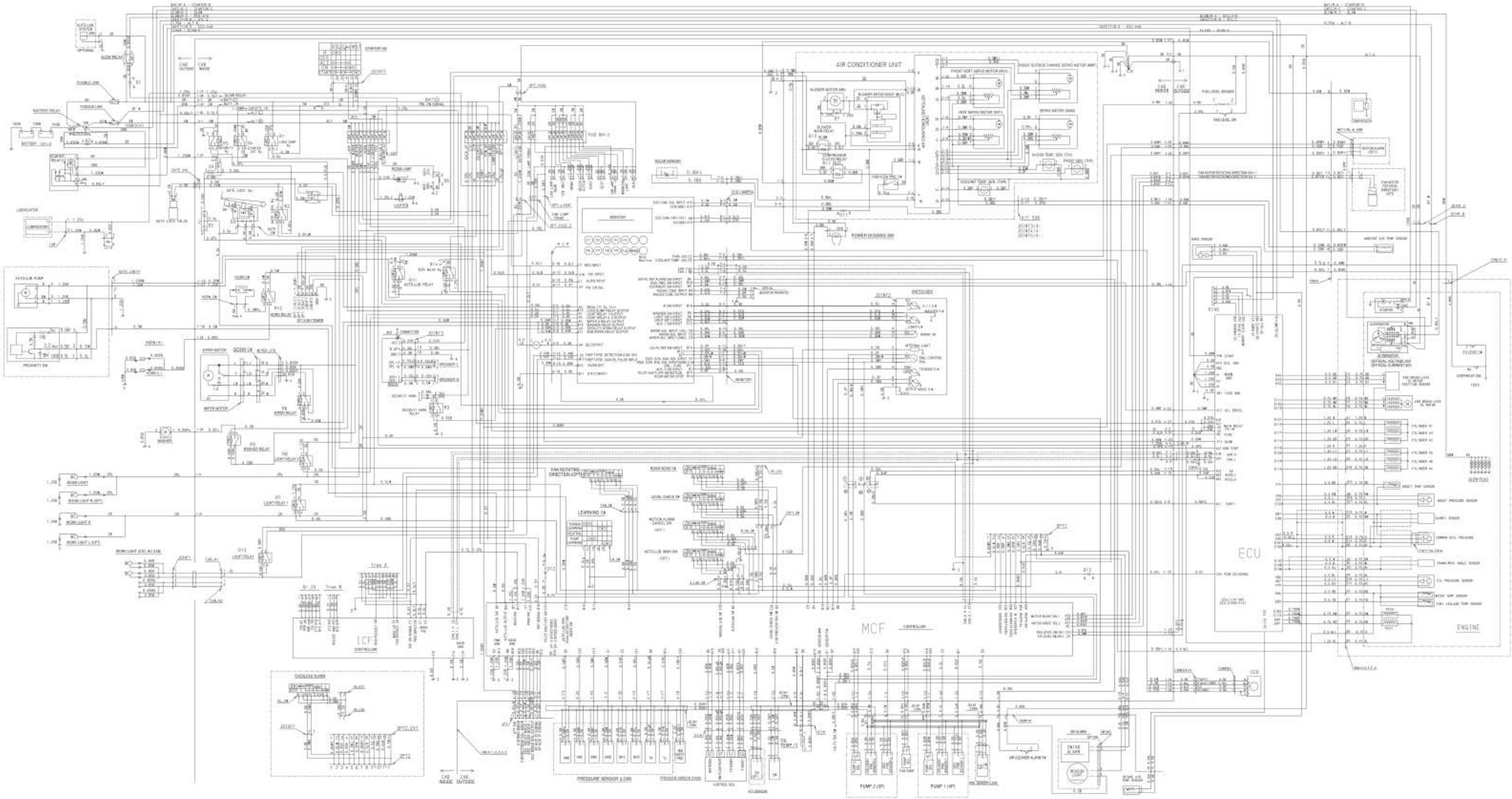


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Engine	Key Switch	Location to be Measured	Specification
Starting Circuit			
Started	START	Between (18) and Ground: Key Switch	20 to 25 V
Started	START	Between (19) and Ground: Battery Relay (Coil)	20 to 25 V
Started	START	Between (20) and Ground: Battery Relay (Switch)	20 to 25 V
Started	START	Between (21) and Ground: Starter (B)	20 to 25 V
Started	START	Between (22) and Ground: Starter (C)	20 to 25 V
Started	START	Between (23) and Ground: Starter Relay (S)	20 to 25 V
Started	START	Between (24) and Ground: Starter Cut Relay	20 to 25 V
Started	START	Between (25) and Ground: Fuse Box	20 to 25 V
Started	START	Between (26) and Ground: Fuse Box	20 to 25 V
Started	START	Between (27) and Ground: ICF (C7)	20 to 25 V
Started	START	Between (28) and Ground: Monitor Unit (A7)	20 to 25 V
Started	START	Between (29) and Ground: MC (B16)	20 to 25 V
Started	START	Between (30) and Ground: ECM (1-24)	20 to 25 V
Started	START	Between (31) and Ground: ECM Main Relay	5 V
Started	START	Between (32) and Ground: ECM Main Relay	20 to 25 V

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ZAXIS450-3/500LC-3/520LCH-3 ELECTRICAL CIRCUIT DIAGRAM



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