PART NO. TTCFA-E-00

HITACHI

Technical Manual

Troubleshooting

ZX
145W-3
Wheeled Excavator

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle)	: Vol. No.TOCFA-E
Technical Manual (Troubleshooting)	: Vol. No.TTCFA-E
Workshop Manual	: Vol. No.WCFA-E

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SECTION 4
OPERATIONAL PERFORMANCE TEST

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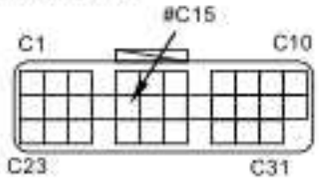
Symptoms in Machine Operation When Trouble Occurs.	Remedy by Dr. ZX	Remedy
Assist 1 operation stops.	Retrial B	Check the harness.
Assist 1 operation stops.	Retrial B	Check the harness.
Assist 1 operation stops.	Retrial B	Check the harness.
Assist 1 operation stops.	Retrial B	Check the harness.
Assist 1 operation stops.	Retrial B	Check the harness.
Assist 1 operation stops.	Retrial B	Check the harness.
Assist switch operation stops.	Retrial B	Check the harness.
Assist switch operation stops.	Retrial B	Check the harness.
Assist switch operation stops.	Retrial B	Check the harness.
Assist switch operation stops.	Retrial B	Check the harness.
Assist switch operation stops.	Retrial B	Check the harness.
Assist switch operation stops.	Retrial B	Check the harness.

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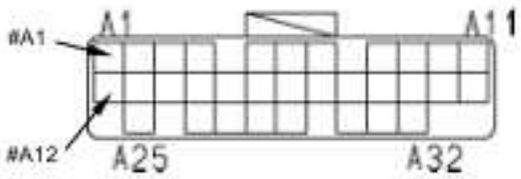
- MC

  Between CAN Circuit (Low Side) and Power Circuit
  - Check for continuity between terminal #C15 (harness end) of connector MC-C and terminal #A1 (harness end) of connector MC-A.
  - Check for continuity between terminal #C15 (harness end) of connector MC-C and terminal #A12 (harness end) of connector MC-A.
  - Check for continuity between terminal #C15 (harness end) of connector MC-C and terminal #B7 (harness end) of connector MC-B.
  - Check for continuity between terminal #C15 (harness end) of connector MC-C and terminal #B17 (harness end) of connector MC-B.

Connector
Connector MC-C
(Harness end)

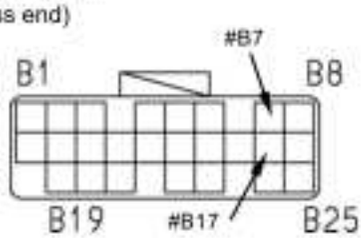


Connector MC-A
(Harness end)



T1S2-05-34-009

Connector MC-B
(Harness end)

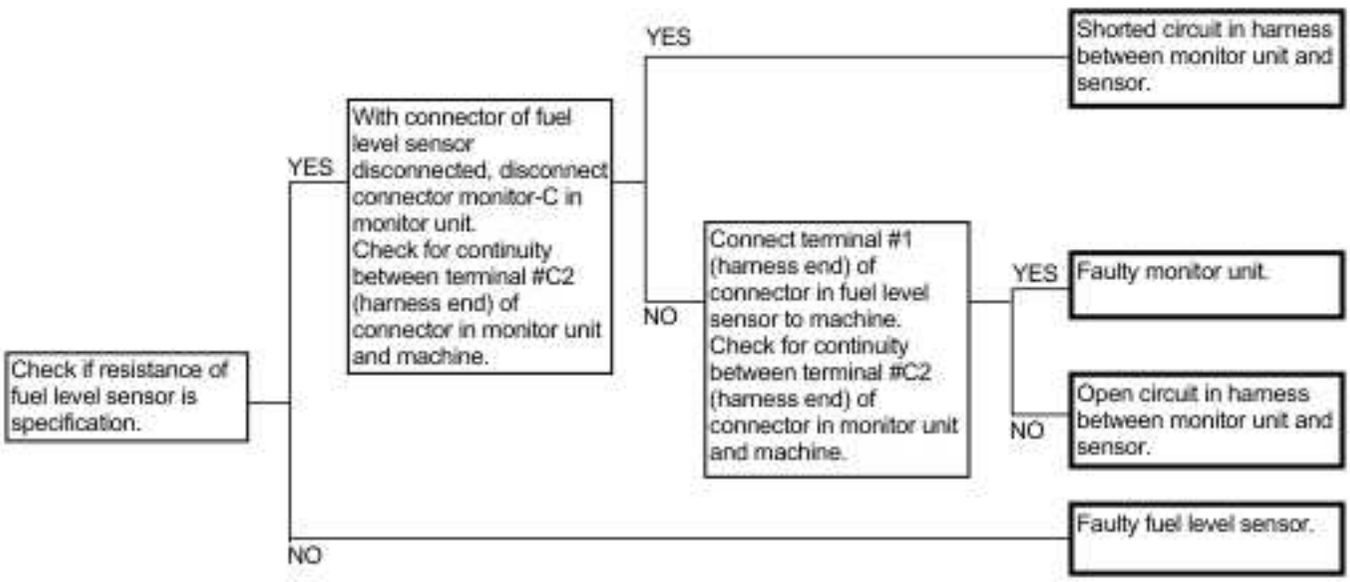


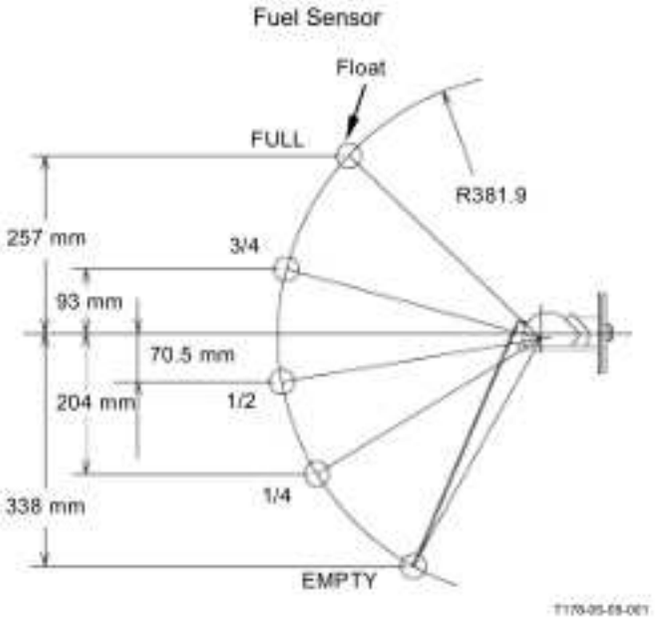
T1S2-05-34-021

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MONITOR UNIT FAULT CODE 13311

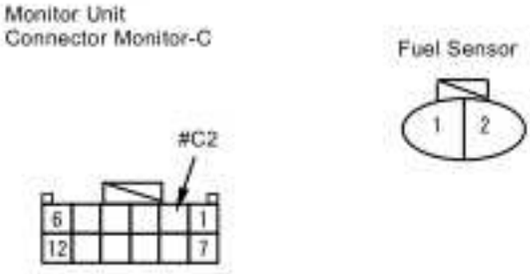
Fault Code	Trouble	Remedy
13311-3	Shorted Circuit in Fuel Level Sensor	Check fuel level sensor and harness.
13311-4	Open Circuit in Fuel Level Sensor	Check fuel level sensor and harness.





Float Position	Resistance (Ω)
Upper Limit (FULL)	10^{+0}_{-4}
3/4	26
1/2	38±5
1/4	53
Alarm Level	85±3
Lower Limit (EMPTY)	90^{+10}_{-0}

Connector (Harness end of connector viewed from the open end side)



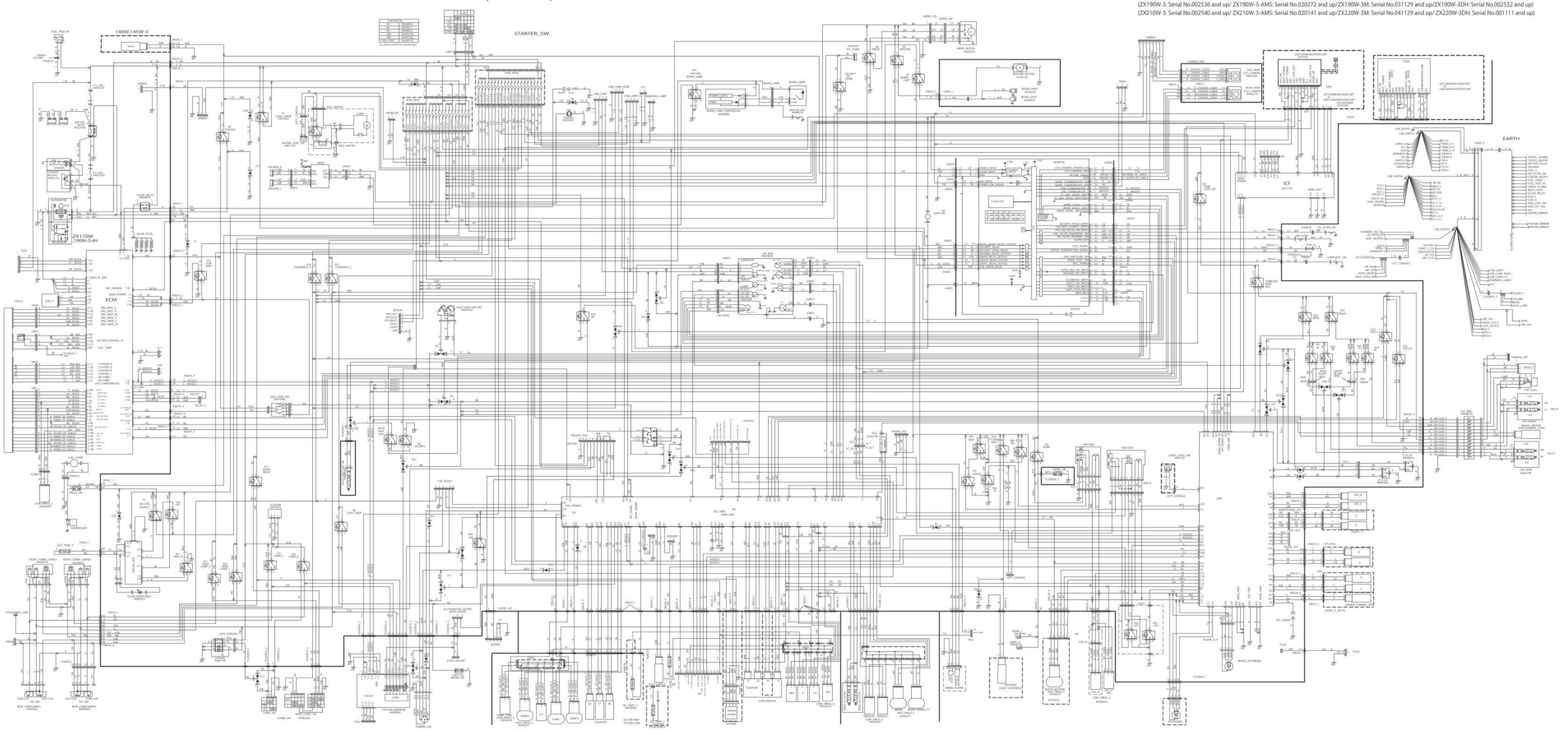
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Attach to Vol. No.: TTCEB-E-00, TTCFA-E-00, TTCGB-E-00, TTCJB-E-00

ZAXIS140W-3/145W-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.

(ZX140W-3: Serial No.002748 and up/ ZX140W-3-AMS: Serial No.021418 and up)
(ZX145W-3: Serial No.010339 and up/ ZX145W-3-AMS: Serial No.020118 and up)
(ZX170W-3: Serial No.003827 and up/ ZX170W-3-AMS: Serial No.020817 and up)
(ZX190W-3: Serial No.002536 and up/ ZX190W-3-AMS: Serial No.020272 and up/ZX190W-3DH: Serial No.002532 and up)
(ZX210W-3: Serial No.002540 and up/ ZX210W-3-AMS: Serial No.020141 and up/ZX220W-3M: Serial No.041129 and up/ ZX220W-3DH: Serial No.001111 and up)



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