PART NO.

HITACHI

Technical Manual

EX

EX1800-3
Hydraulic Excavator

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

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SECTION 1
GENERAL

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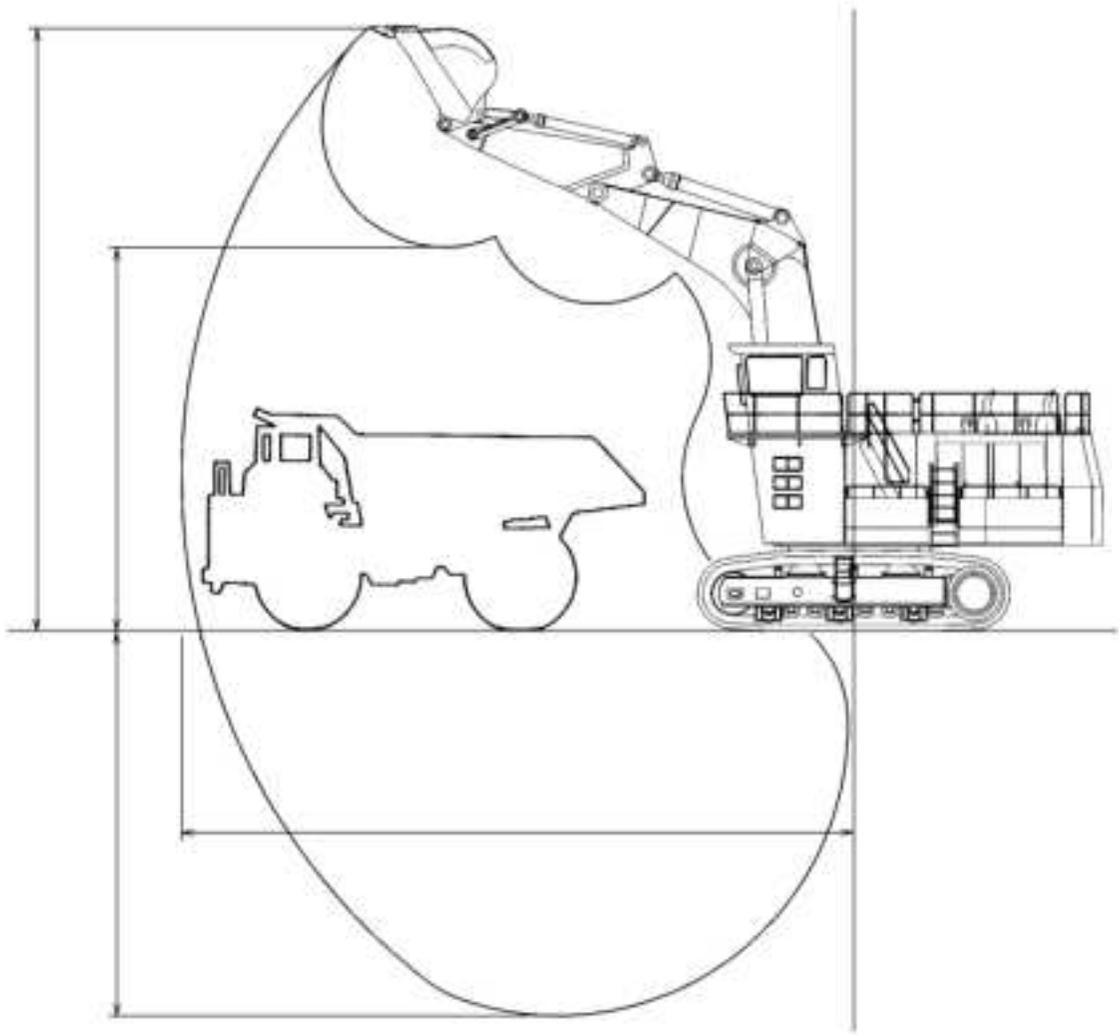
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Backhoe



M144-11-004

Boom	m (ft in)	8.3 (27'3")	8.7 (28'7")	8.7 (28'7")	11.8 (38'9")	11.8 (38'9")	11.8 (38'9")
Arm	m (ft in)	3.6 (11'10")	4.0 (13'2")	5.5 (18'1")	4.0 (13'2")	5.5 (18'1")	7.0 (23'0")
Bucket Capacity (PCSA)	m^3 (yd^3)	11.3 (14.8)	9.6 (12.6)	8.0 (10.5)	6.0 (7.9)	4.8 (6.3)	4.4 (5.8)
(CECE)	(m^3)	10.0	8.4	7.0	5.3	4.2	3.8
A : Maximum Digging Reach	mm (ft in)	15240 (50'0")	16070 (52'9")	17500 (57'5")	19390 (63'7")	20860 (68'5")	21850 (71'8")
*B : Maximum Digging Depth	mm (ft in)	8220 (27'0")	9270 (30'5")	10770 (35'4")	11820 (38'9")	13320 (43'8")	14470 (47'6")
*C : Maximum Cutting Height	mm (ft in)	14280 (46'10")	14440 (47'5")	14970 (49'1")	17340 (56'11")	18100 (59'5")	17860 (58'7")
*D : Maximum Dumping Height	mm (ft in)	9020 (29'7")	9160 (30'1")	9770 (32'1")	11780 (38'8")	12620 (41'5")	13180 (43'3")

NOTE *The dimensions include the height of the shoe lug.*

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TROUBLESHOOTING B PROCEDURE

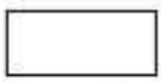
Troubleshooting is described symptom by symptom of machine trouble in this section.

On the next page, correlation between malfunctions and possible causes are shown on charts. Start troubleshooting after estimating potential causes of the trouble by referring to the charts.

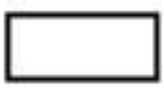
- **How to Read the Troubleshooting Flow Charts**



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


- Key switch: ON

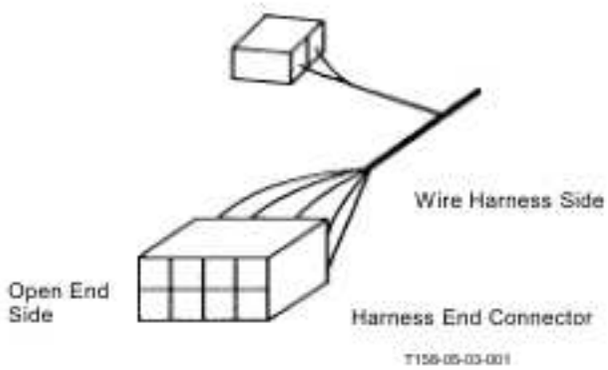
Special instructions or reference item are indicated in the spaces under the box. Incorrect measuring or checking methods will render troubleshooting impossible, and may damage components as well.



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

NOTE: If "Contact CUMMINS." is indicated, be sure to inform them of the fault codes if any are indicated. (Refer to "Troubleshooting A" for how to read fault codes.)

For all connector drawings illustrated in this group, harness end connector terminals seen from the open end side are shown.

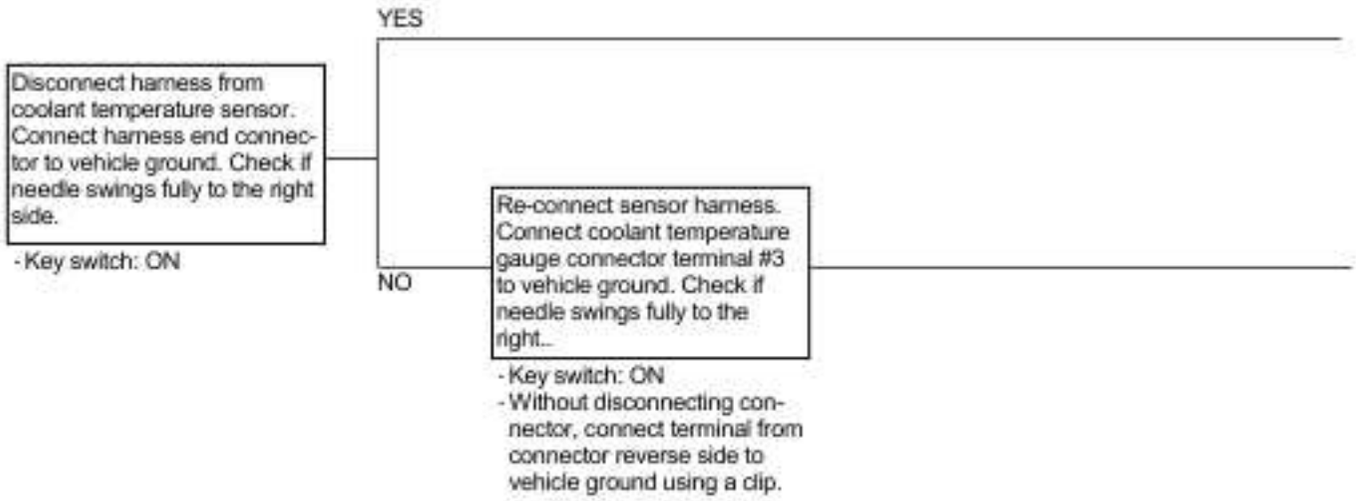


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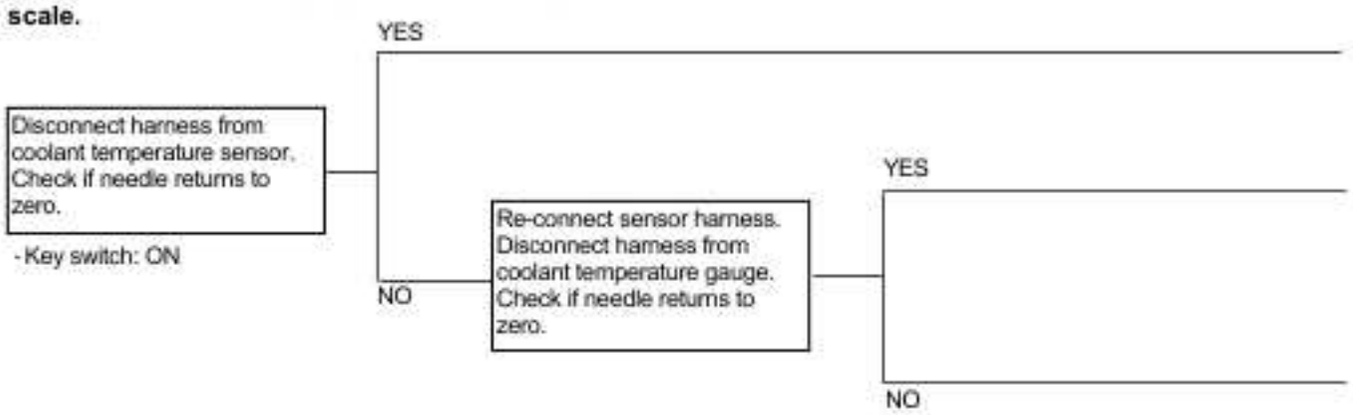
MALFUNCTION OF COOLANT TEMPERATURE GAUGE

Checking Instructions:
- Check that other gauges operate normally.
- Check first that the circuit connections are all correct.

Coolant temperature gauge needle does not move at all.



Coolant temperature gauge needle swings over scale.

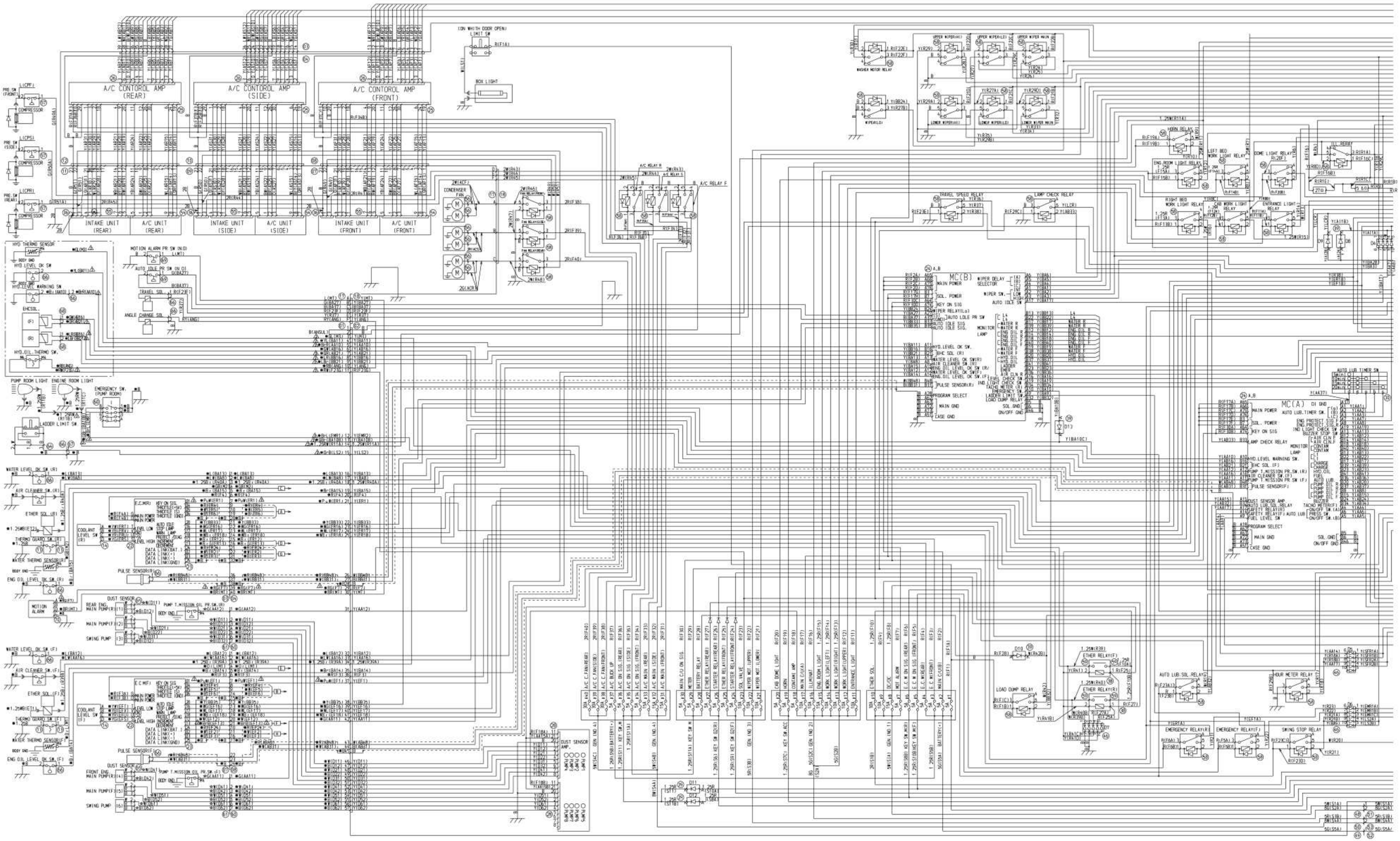


Coolant temperature gauge needle swings unstably.



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EX1800-3 ELECTRICAL CIRCUIT 1/2



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