PART NO.

HITACHI

Technical Manual

EX

EX2500
Hydraulic Excavator

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

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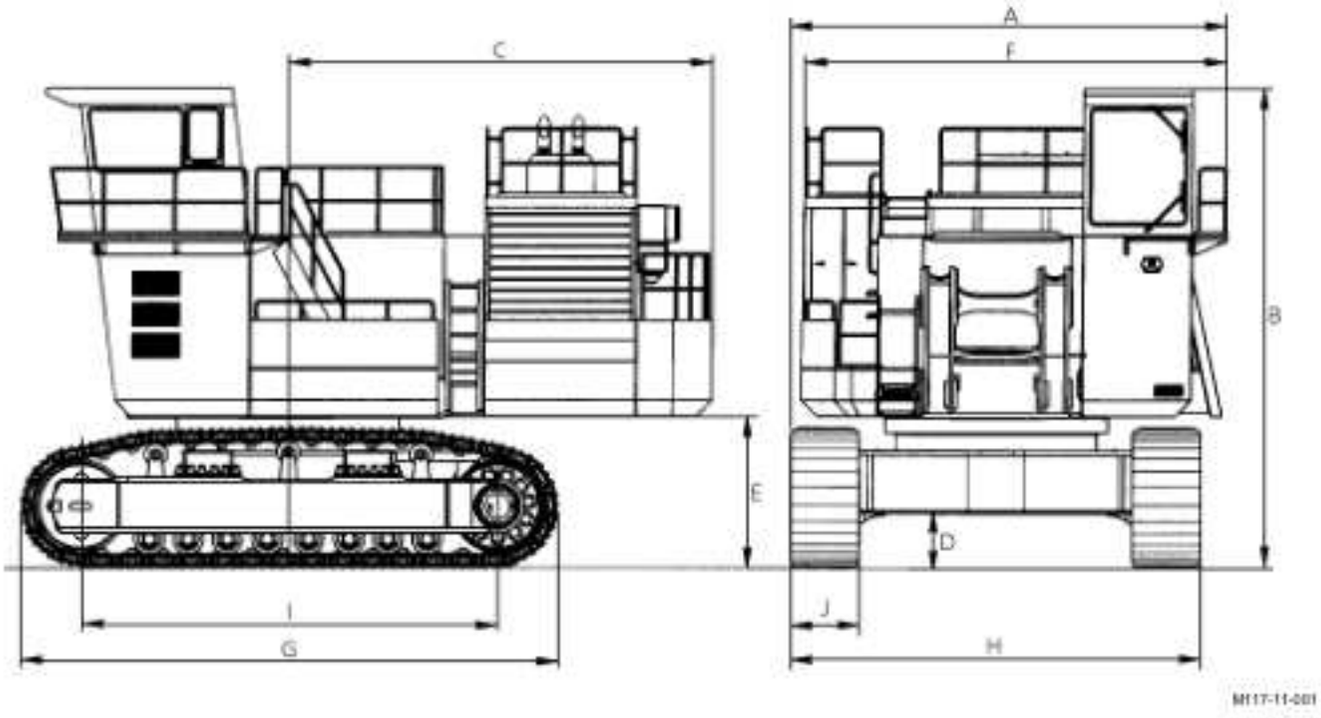
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BASE MACHINE DIMENSIONS



Model Designation		EX2500	
Front Attachment Type	–	Loading Shovel Front	Backhoe Front
Standard Bucket Capacity (Heaped)	m^3 (yd^3)	14 (18.3)	13.8 (18.1)
Operating Weight	kg (lb)	238500 (525800)	236000 (520000)
Engine	–	KTA50-C 969 kW/1800 min^{-1} (1317 PS/1800 rpm)	
A: Overall Width	mm (ft in)	6350 (20' 10")	
B: Cab Height	mm (ft in)	7040 (23' 1")	
C: Rear End Swing Radius	mm (ft in)	6290 (20' 7.6")	
D: Minimum Ground Clearance	mm (ft in)	800 (2' 7.5")	
E: Counterweight Clearance	mm (ft in)	2230 (7' 3.8")	
F: Overall Width of Upperstructure	mm (ft in)	6200 (20' 4.1")	
G: Undercarriage Length	mm (ft in)	7870 (25' 9.8")	
H: Undercarriage Width	mm (ft in)	6000 (19' 8.2")	
I : Sprocket Center to Idler Center	mm (ft in)	6120 (20' 0.9")	
J: Track Shoe Width	mm (ft in)	1000 (3' 3.4")	
Ground Pressure	kPa (kgf/cm^2, psi)	173 (1.76, 25)	
Swing Speed	min^{-1} (rpm)	3.8	
Travel Speed (Fast/Slow)	km/h (mph)	2.3/1.6 (1.43/1.00)	
Gradeability	% (Degree)	60 (30)	

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EC-RELATED FAULT CODES

Fault Code	Trouble	Corrective Action
01 02 03	Faulty FC (Hard Ware)	1) Retry A 2) Even if the message for abnormal engine speed control is displayed, when pump control (spped sensing) or auto-idle control operates normally, no remedy is requires. 3) Replace the EC.
04	Faulty EC (Faulty RAM)	1) Retry 2) Abnormal engine speed control system. If 8 or more selfdiagnostic fault codes are displayed, replace the EC.
05	Interrupted communication between the MC and EC	1) Retry B 2) Check for the harness. 4) Even if the message for abnormal auto-idle control is displayed, when pump control (speed sensing) control operates normally, no remedy is required. 3) Replace the MC or EC.
06	Faulty EC (Faulty AD Conversion)	1) Retry B 2) Even if the message for abnormal engine speed control is displayed, no remedy is required. 3) Replace the EC.
13	Faulty Engine Speed Sensor	1) Retry B 2) Check for the harness. 3) Replace the engine speed sensor.

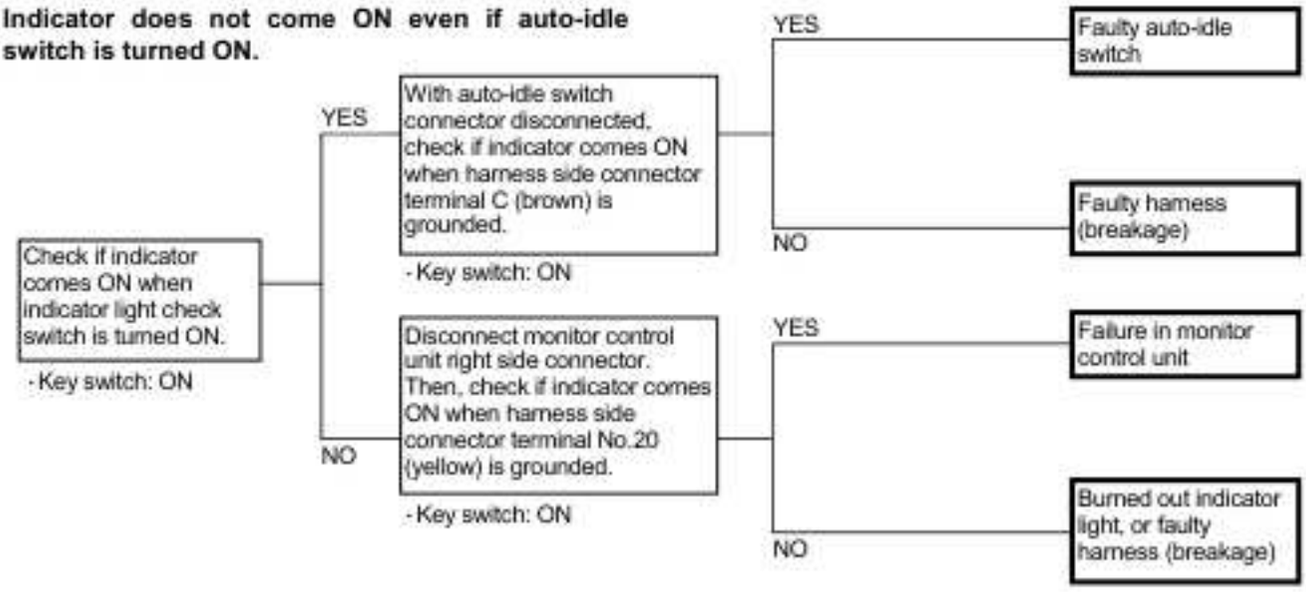
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MALFUNCTION OF AUTO-IDLE INDICATOR

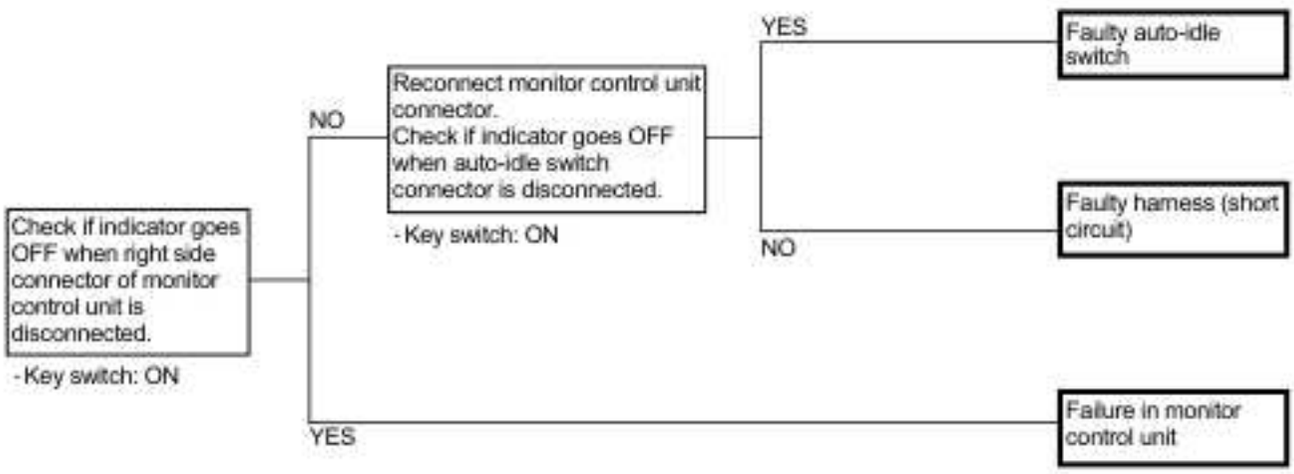
- Providing that other indicators light correctly.
- Check for loose harness connections beforehand.

NOTE: Auto idle pressure switch activation pressure.
ON: 490 kPa (5 kgf/cm^2, 71 psi) or more
OFF: 29 kPa (3 kgf/cm^2, 43 psi) or less

Indicator does not come ON even if auto-idle switch is turned ON.

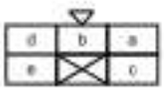


Indicator comes ON even if auto-idle switch is not turned ON.

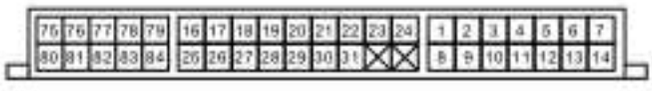


Connectors

Auto-idle Switch

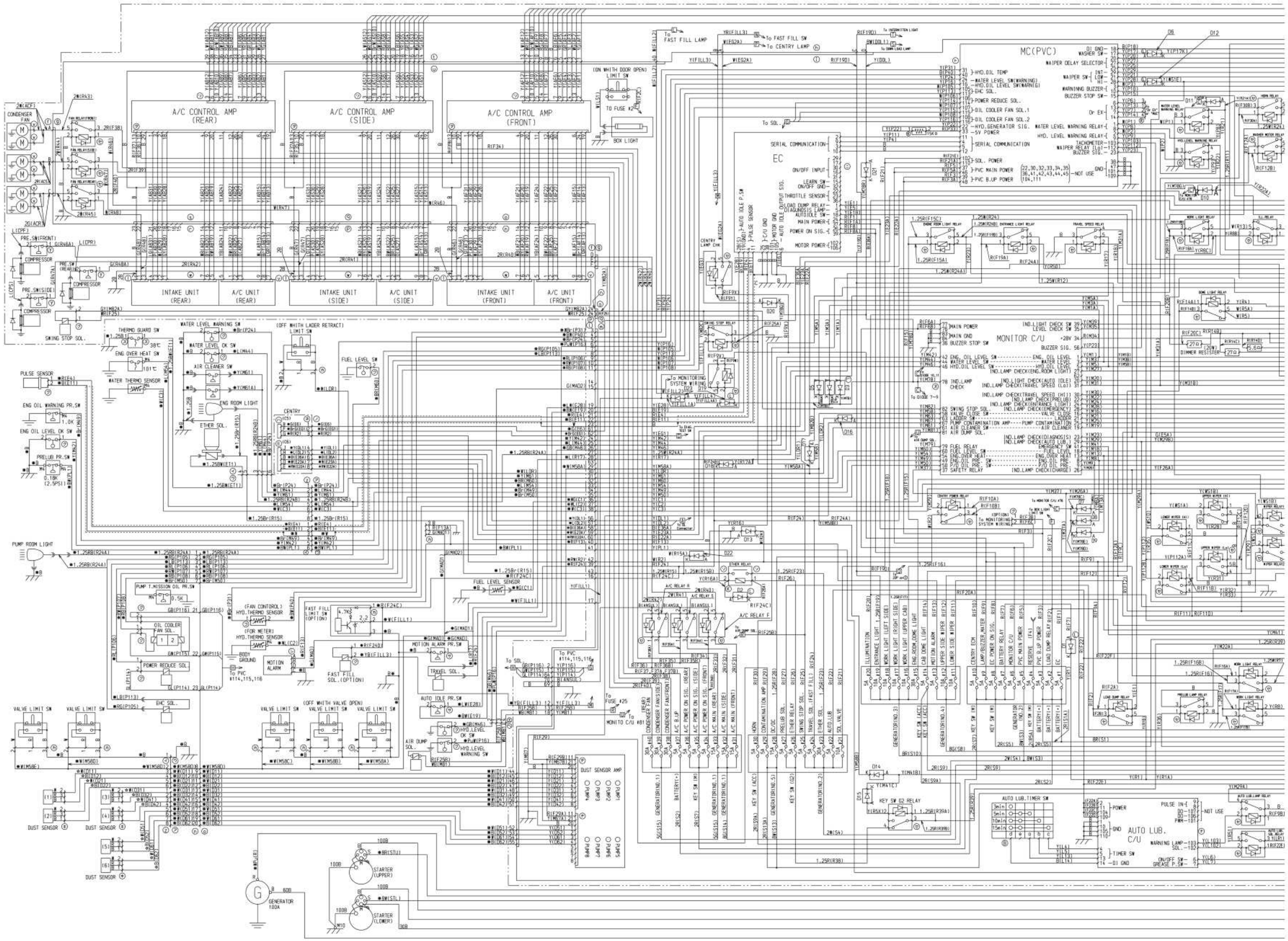


Monitor Control Unit (Right Side)



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EX2500 ELCTRICAL CIRCUIT 1/2:Serial No.133 and up.



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