SEN04566-13

Shop Manual

HYDRAULIC
EXCAVATOR

PC160LC-8

SERIAL NUMBERS 25001 and up

ecot3

KOMATSU®

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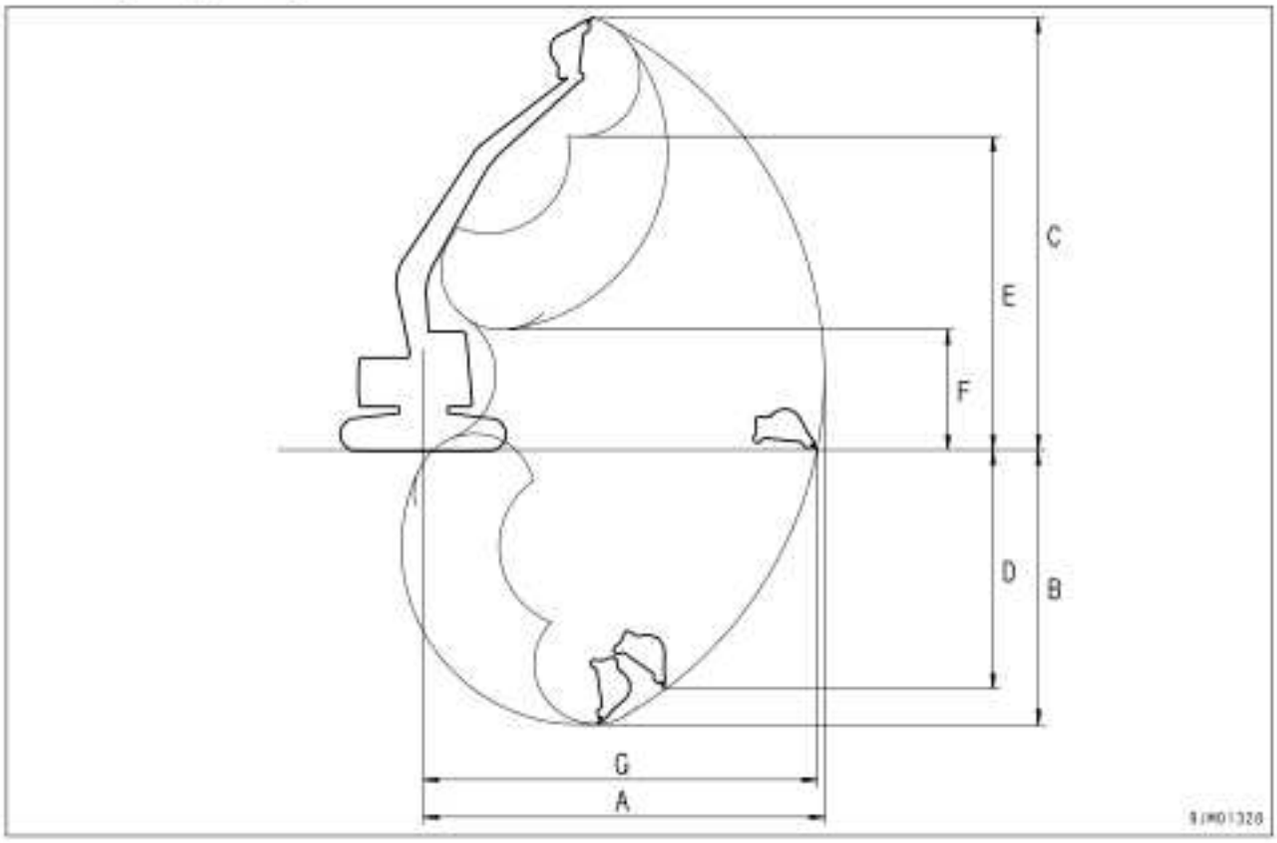
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Working range diagram



	Check item	Unit	PC160LC-8
A	Max. digging reach	mm	8,960
B	Max. digging depth	mm	5,960
C	Max. digging height	mm	8,980
D	Max. vertical wall digging depth	mm	5,040
E	Max. dumping height	mm	6,370
F	Min. dumping height	mm	2,400
G	Max. reach at ground level	mm	8,800

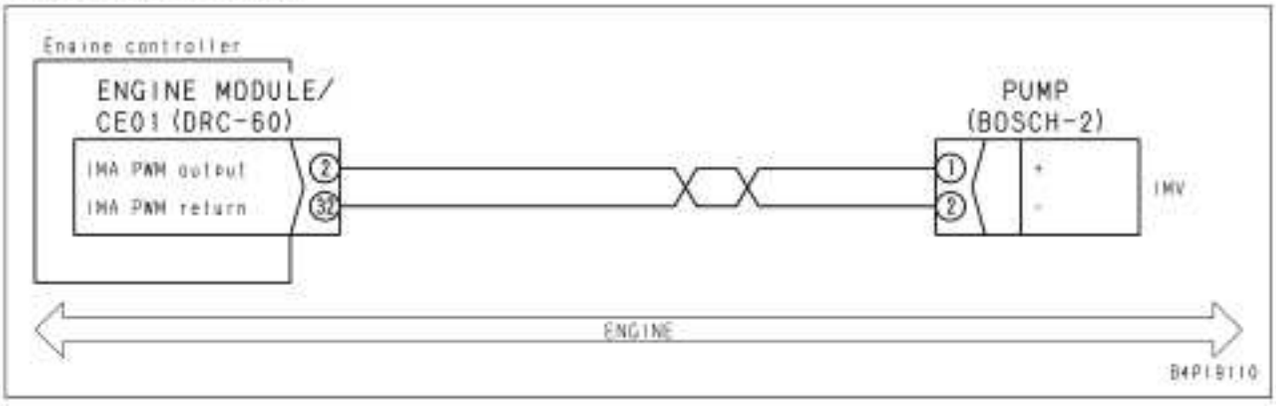
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Failure code [CA271] IMV/PCV1 short error

User code	Failure code	Trouble	IMV/PCV1 short error (Engine controller system)
E10	CA271		
Contents of trouble	• Short circuit was detected in drive circuit of supply pump actuator.		
Action of controller	• None in particular.		
Problem that appears on machine	• Engine speed does not rise from low idle. • Engine output lowers. • Common rail fuel pressure rises above command value.		
Related information	• Method of reproducing failure code: Turn starting switch ON.		

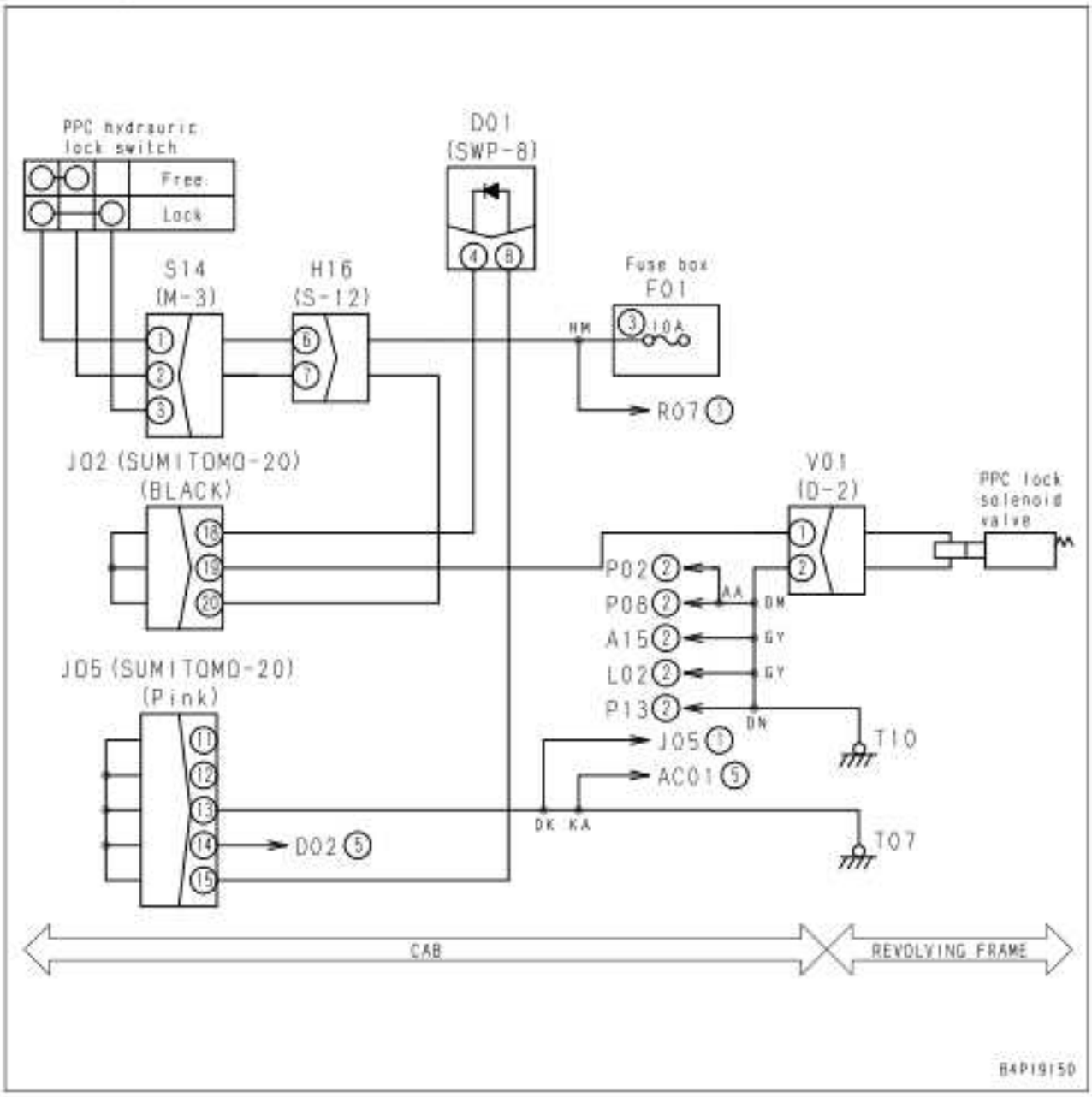
	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective supply pump actuator	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			PUMP (male)	Resistance	
			Between (1) – chassis ground	Min. 100 kΩ	
	2	Ground fault in wiring harness (Short circuit with GND circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between CE01 (female) (2) – PUMP (female) (1) and chassis ground	Resistance	Min. 100 kΩ
	3	Short circuit in wiring harness (With another wiring harness)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Between CE01 (female) (2) – each of CE01 (female) pins (With all wiring harness connectors disconnected)	Resistance	Min. 100 kΩ
	4	Defective wiring harness connector	Connecting parts between supply pump actuator – engine wiring harness – engine controller may be defective. Check them directly. • Looseness of connector, breakage of lock, or breakage of seal • Corrosion, bend, breakage, push-in, or expansion of pin • Moisture or dirt in connector or defective insulation		
	5	Defective engine controller	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			CE01 (female)	Resistance	
			Between (2) – chassis ground	Min. 100 kΩ	

Circuit diagram related

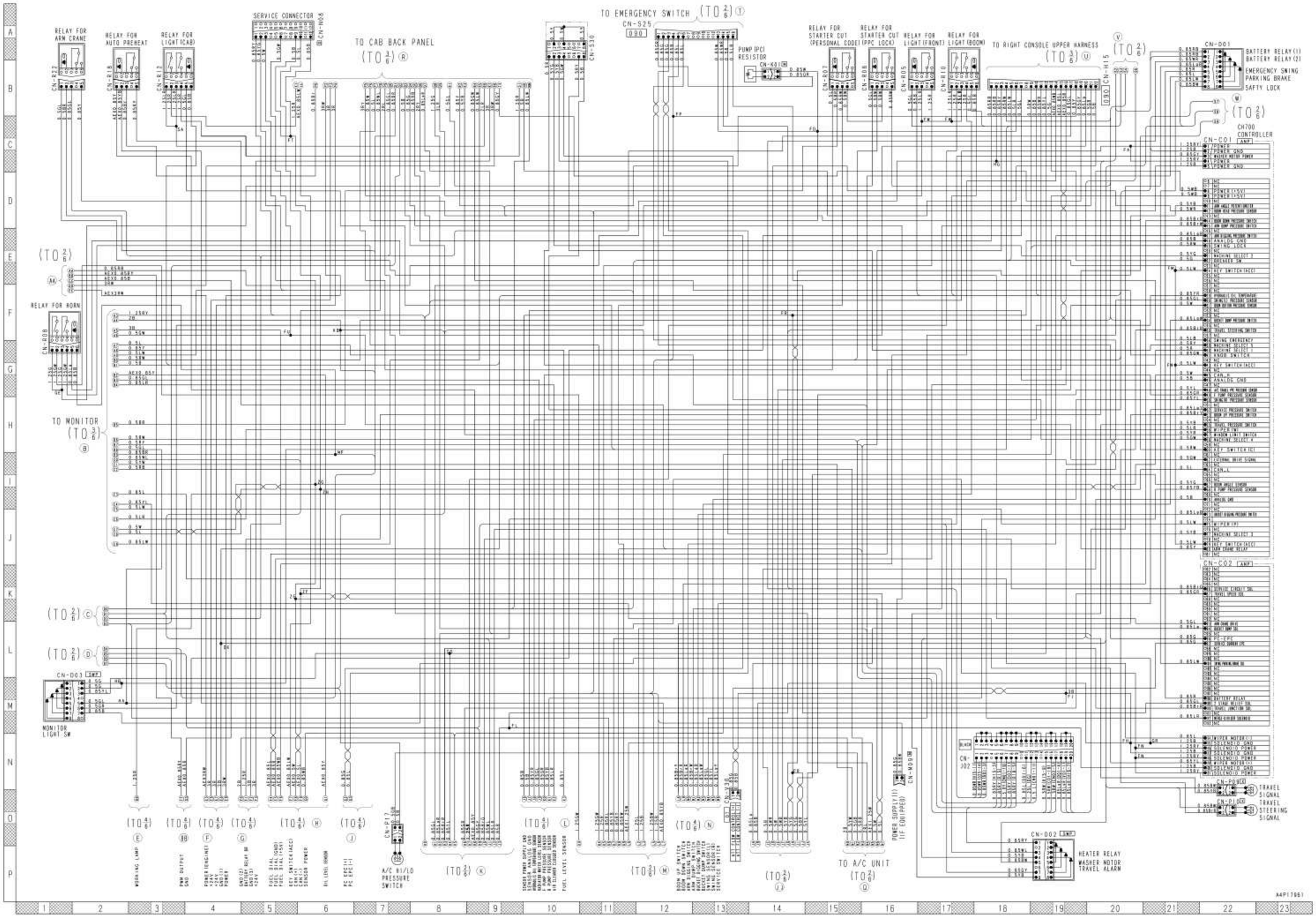


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