KEN00084-13

Shop Manual

HYDRAULIC
EXCAVATOR

PC200 -8
PC200LC -8
PC240LC -8

SERIAL NUMBERS
PC200- B30001
PC200LC- B30001
PC240LC- B10001

ecot3

KOMATSU®

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Weight table

⚠ **This weight table is prepared for your reference when handling or transporting the components.**

PC200-8, PC200LC-8

Unit: kg

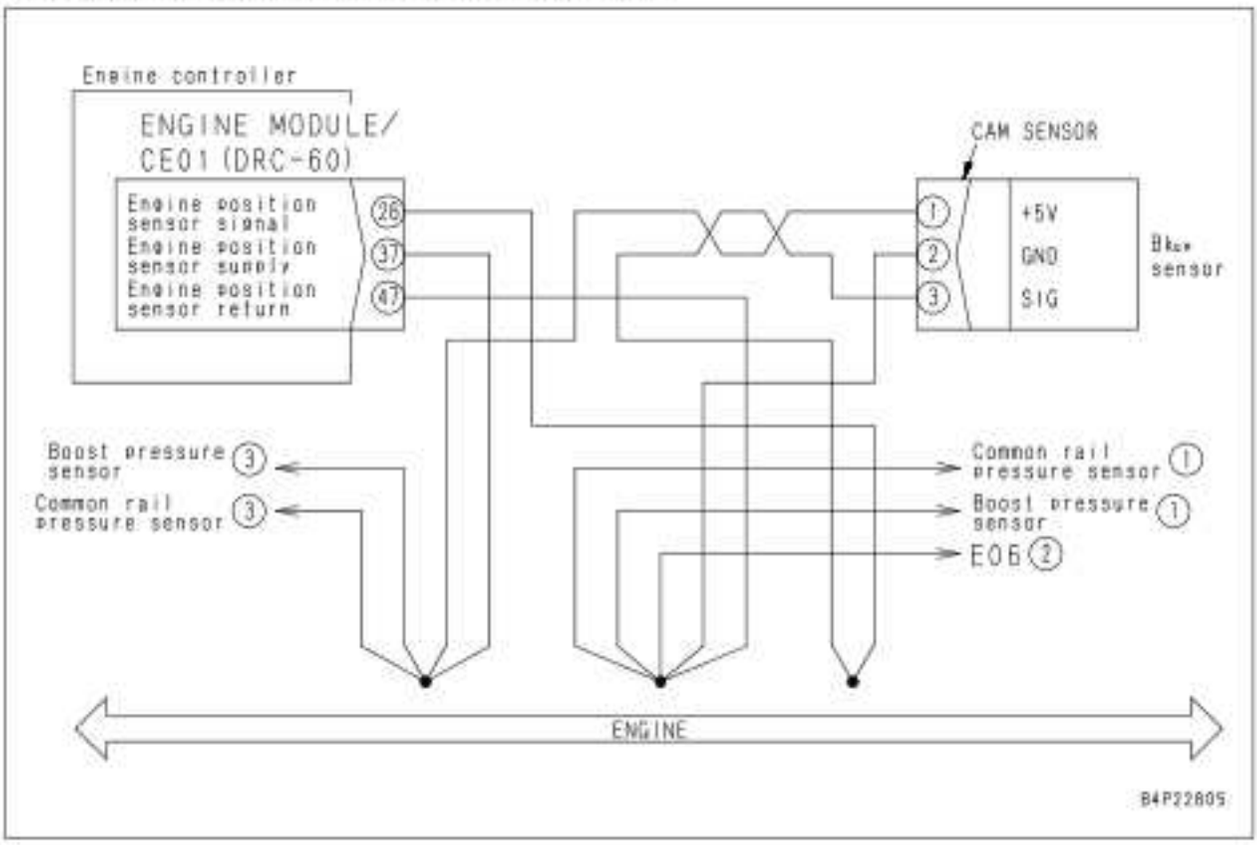
Machine model	PC200-8	PC200LC-8
Serial number	B30001 and up	
Engine assembly	733	733
• Engine	575	575
• Damper	6	6
• Hydraulic pump	152	152
Radiator and oil cooler assembly	115	115
Hydraulic tank and filter assembly (Not including hydraulic oil)	123	123
Fuel tank assembly (Not including fuel)	134	134
Revolving frame	1,721	1,721
Cab	480	480
Operator's seat	35	35
Counterweight	3,735	3,735
Swing machinery	174	174
Control valve	235	235
Swing motor	51.5	51.5
Travel motor	93 x 2	93 x 2
Center swivel joint	36	36
Track frame assembly (Not including piping)	4,264	4,862
• Track frame	2,260	2,649
• Swing circle	273	273
• Idler	101 x 2	101 x 2
• Idler cushion	118 x 2	129 x 2
• Carrier roller	14 x 4	14 x 4
• Track roller	36 x 14	36 x 18
• Final drive (including travel motor)(*)	322 x 2	322 x 2
Track shoe assembly		
• Standard triple shoe (600 mm)	1,215 x 2	1,325 x 2
• Standard triple shoe (700 mm)	1,405 x 2	1,530 x 2
• Wide triple shoe (800 mm)	1,530 x 2	1,670 x 2
• Road liner (Rubber pad type) (600 mm)	1,470 x 2	1,600 x 2

* The machines with serial number B31331 and up are equipped with two final drives which weight 345 kg.

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<table>
<tr><td rowspan="4">Possible causes and standard value in normal state</td><td colspan="2">Cause</td><td colspan="3">Standard value in normal state/Remarks on troubleshooting</td></tr>
<tr><td>9</td><td>Defective wiring harness connector</td><td colspan="3">Connecting parts between engine Bkup speed sensor – 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</td></tr>
<tr><td rowspan="3">10</td><td rowspan="3">Defective engine controller</td><td colspan="3">★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.</td></tr>
<tr><td colspan="2">CE01</td><td>Voltage</td></tr>
<tr><td>Between (37) – (47)</td><td>Power supply</td><td>4.75 – 5.25 V</td></tr>
</table>

Circuit diagram related to engine Bkup speed sensor



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Failure code [DHS3MA] Arm Curl PPC Press Sensor Abnormality

User code	Failure code	Trouble	Arm curl PPC pressure sensor abnormality (Pump controller system)
—	**DHS3MA**		
Contents of trouble	• Signal voltage of arm curl PPC pressure sensor circuit is below 0.3 V or above 4.5 V.		
Action of controller	• Fixes arm curl PPC pressure at 0 MPa (0 kg/cm²) and continues control. • If cause of failure disappears, system resets itself.		
Problem that appears on machine	• Automatic decelerator cannot be reset. • Arm curl performance lowers.		
Related information	★ If 5V circuit (3) and ground circuit (1) of pressure sensor are connected inversely, pressure sensor will be broken. Accordingly, take extreme care when checking. • Arm curl PPC pressure can be checked with monitoring function. (Code: 07200 Arm curl PPC pressure) • Method of reproducing failure code: Turn starting switch ON or start engine.		

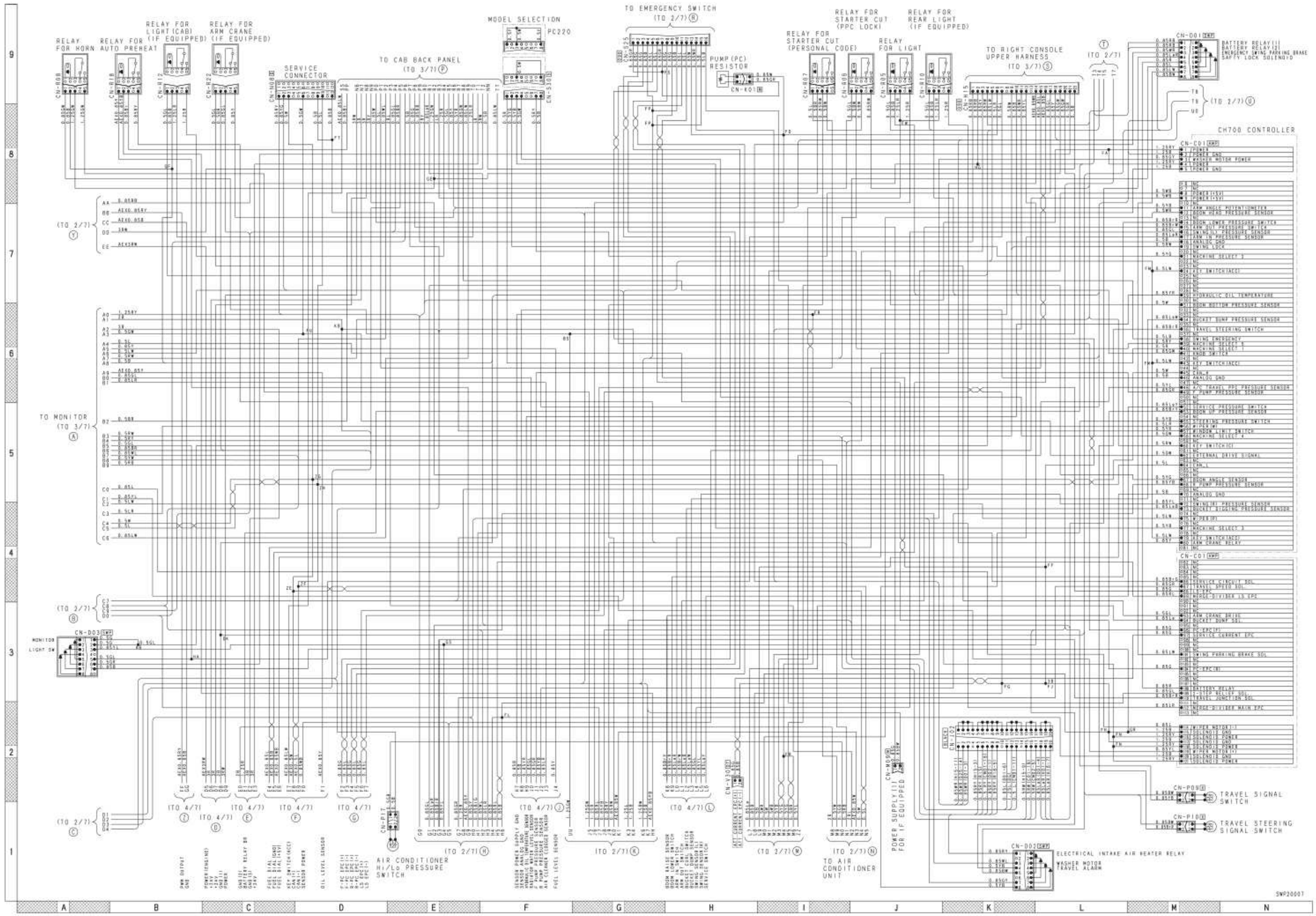
	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Defective 5V sensor power supply 1 system	If failure code [**DA25KP**] is also displayed, carry out troubleshooting for it first.			
	2	Defective arm curl PPC pressure sensor (Internal defect)	★ Prepare with starting switch OFF, then turn starting switch ON or start engine and carry out troubleshooting in each case.			
			P04		Voltage	
			Between (3) – (1)	Power supply	4.5 – 5.5 V	
			Between (2) – (1)	Signal	0.3 – 4.5 V	
			If voltage is abnormal, replace arm curl PPC pressure sensor with another PPC pressure sensor and check failure code. (If "E" of failure code goes off at this time, arm curl PPC pressure sensor is defective.)			
	3	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Wiring harness between C01 (female) (18) – P04 (female) (1)		Resistance	Max. 1 Ω
			Wiring harness between C01 (female) (17) – P04 (female) (2)		Resistance	Max. 1 Ω
			Wiring harness between C01 (female) (9) – J06 – P04 (female) (3)		Resistance	Max. 1 Ω
	4	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 C01 (female) (17) – P04 (female) (2) and chassis ground		Resistance	Min. 1 MΩ
	5	Hot short (Short circuit with 5V/24V circuit) in wiring harness	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.			
			Wiring harness between C01 (female) (17) – P04 (female) (2)		Voltage	Max. 1 V
	6	Defective pump controller	If causes 1 – 5 are not detected, pump controller may be defective. (Since trouble is in system, troubleshooting cannot be carried out.)			

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Electrical circuit diagram (1/6)

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★ This figure covers the equipment and devices that are unavailable as optional items in some areas.



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