SEN00128-16

Shop Manual

HYDRAULIC
EXCAVATOR

PC600 -8
PC600LC-8

SERIAL NUMBERS PC600- 30001 and up
PC600LC- 30001

ecot3

KOMATSU®

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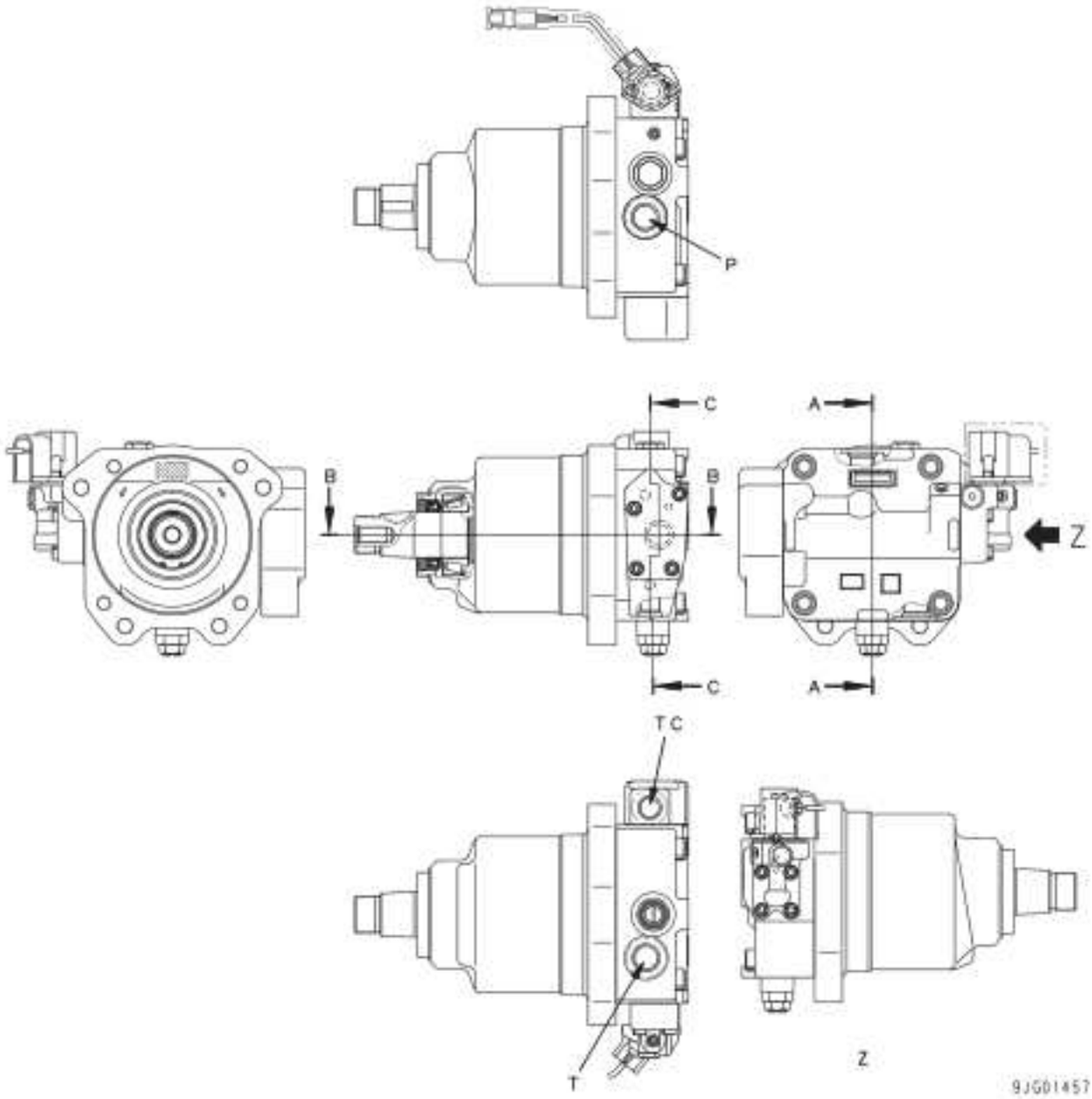
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Failure code [B@BAZK] Eng. Oil Level Low 10
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Failure code [B@BCZK] Eng. Water Lvl Low 12
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Cooling fan motor

Type: LMF75



P : From fan pump
TC : To tank
T : From oil cooler to tank

Specifications
Type: LMF75
Capacity: 75 cm³/rev
Rated speed: 1,430 rpm
Rated flow rate: 112 ℓ/min
Cracking pressure of check valve:
78.5 kPa {0.8 kg/cm²}

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Related circuit diagram

This drawing is a part of the electric circuit diagram related to troubleshooting.

- Connector No.: Indicates (Model – Number of pins) and (Color).
- "Connector No. and pin No." from each branching/merging point: Shows the ends of branch or source of merging within the parts of the same wiring harness.
- Arrow (⟷): Roughly shows the location on the machine.

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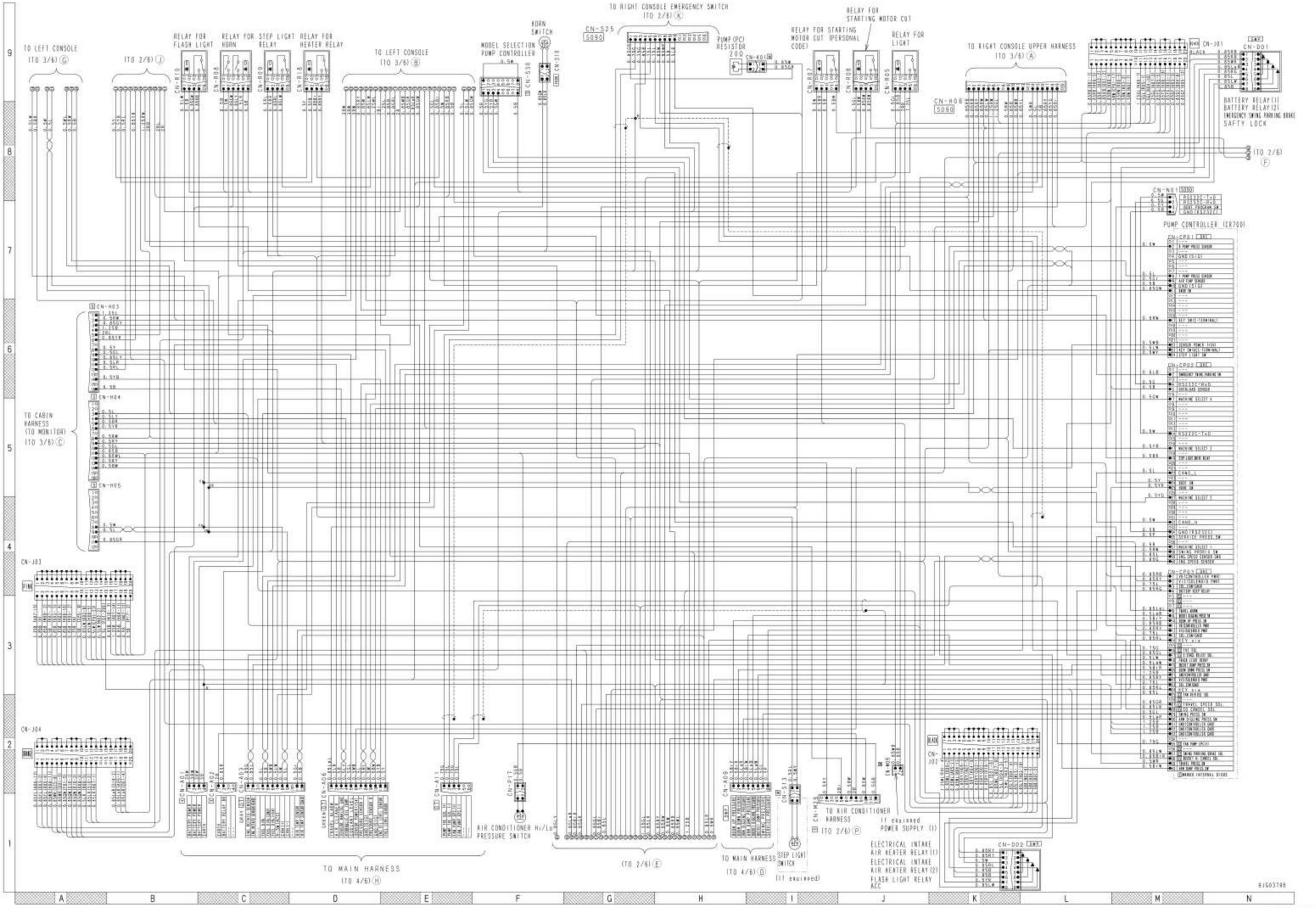
Failure code [CA1631] BP Valve Pos Sens High Error

Action code	Failure code	Trouble	BP Valve Pos Sens High Error (Engine controller system)
E11	**CA1631**		
Contents of trouble	• Signal voltage in bypass valve lift sensor circuit is abnormally high.		
Action of controller	• Limits output and continues operation. • Closes EGR valve and bypass valve.		
Problem that appears on machine	• Output drops.		
Related information	• Signal voltage of bypass valve position sensor can be checked with monitoring function. (Code: 18200 Bypass valve position sensor voltage)		

	Cause		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Defective sensor power supply	If failure code [**CA187**] or [**CA227**] is indicated, carry out troubleshooting for it first.		
	2	Defective bypass valve lift sensor (Internal trouble)	★ Prepare with starting switch OFF, then turn starting switch ON or start engine and carry out troubleshooting.		
			SBP		Voltage
			Between (1) – (2)	Power supply	4.75 – 5.25 V
			Sensor voltage is measured with wiring harness connected. Accordingly, if voltage is abnormal, check wiring harness and controller, too, for another cause of trouble, and then judge.		
	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 ENG (female) (33) – SBP (female) (1)	Resistance	Max. 1 Ω
			Wiring harness between ENG (female) (38) – SBP (female) (2)	Resistance	Max. 1 Ω
			Wiring harness between ENG (female) (29) – SBP (female) (3), (4)	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 ENG (female) (33) – SBP (female) (1)	Resistance	Min. 1 MΩ
			Wiring harness between ENG (female) (38) – SBP (female) (2)	Resistance	Min. 1 MΩ
			Wiring harness between ENG (female) (29) – SBP (female) (3), (4)	Resistance	Min. 1 MΩ
	5	Short circuit in wiring harness (with another wiring harness)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between ENG (female) (33) – SBP (female) (1) and between ENG (female) (38) – SBP (female) (2)	Resistance	Min. 1 MΩ
			Wiring harness between ENG (female) (33) – SBP (female) (1) and between ENG (female) (29) – SBP (female) (3), (4)	Resistance	Min. 1 MΩ
			Wiring harness between ENG (female) (38) – SBP (female) (2) and between ENG (female) (29) – SBP (female) (3), (4)	Resistance	Min. 1 MΩ
	6	Defective engine controller	★ Prepare with starting switch OFF, then turn starting switch ON or start engine and carry out troubleshooting.		
			ENG		Voltage
			Between (33) – (38)		4.75 – 5.25 V

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Electrical circuit diagram (1/6)



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