SEN03763-12

Shop Manual

HYDRAULIC
EXCAVATOR

PC130-8

SERIAL NUMBERS 80001 and up

ecot3

KOMATSU®

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Classification and procedures for troubleshooting

Classification for troubleshooting

Mode	Contents
Display of code	Troubleshooting by failure code
E-mode	Troubleshooting of electrical system
H-mode	Troubleshooting of hydraulic and mechanical system
S-mode	Troubleshooting of engine

Procedure for troubleshooting

If a phenomenon looking like a trouble occurs in the machine, select a proper troubleshooting No. according to the following procedure, and then go to the corresponding troubleshooting section.

1. **Procedure for troubleshooting to be taken when user code and failure code are displayed on machine monitor:**
   If a user code and a failure code are displayed on the machine monitor, carry out the troubleshooting for the corresponding "**Display of code**" according to the displayed failure code.

2. **When electrical system error code or mechanical system error code is recorded in abnormality record:**
   If a user code and a failure code are not displayed on the machine monitor, check a mechanical system failure code and an electrical system failure code with the abnormality record function of the machine monitor.
   If a code is recorded, carry out troubleshooting for the corresponding "**Display of code**" according to the recorded code.
   - ★ If an electrical system failure code is recorded, delete all the codes and reproduce them, and then see if the trouble is still detected.
   - ★ An error code of the mechanical system cannot be deleted.
   - ★ If a trouble is displayed in the air conditioner abnormality record or heater abnormality record by the abnormality record function, carry out the corresponding troubleshooting in **E-mode**.

3. **When user code and failure code is not displayed and no failure code is recorded in abnormality record:**
   If a user code and failure code are not displayed on the machine monitor and no failure code is recorded in the abnormality record, a trouble that the machine cannot find out by itself may have occurred in the electrical system or hydraulic and mechanical system.
   In this case, check the phenomenon looking like a trouble again and select the same phenomenon from the table of "Phenomena looking like troubles and troubleshooting Nos.", and then carry out troubleshooting corresponding to that phenomenon in the "**E-mode**", "**H-mode**", or "**S-mode**".

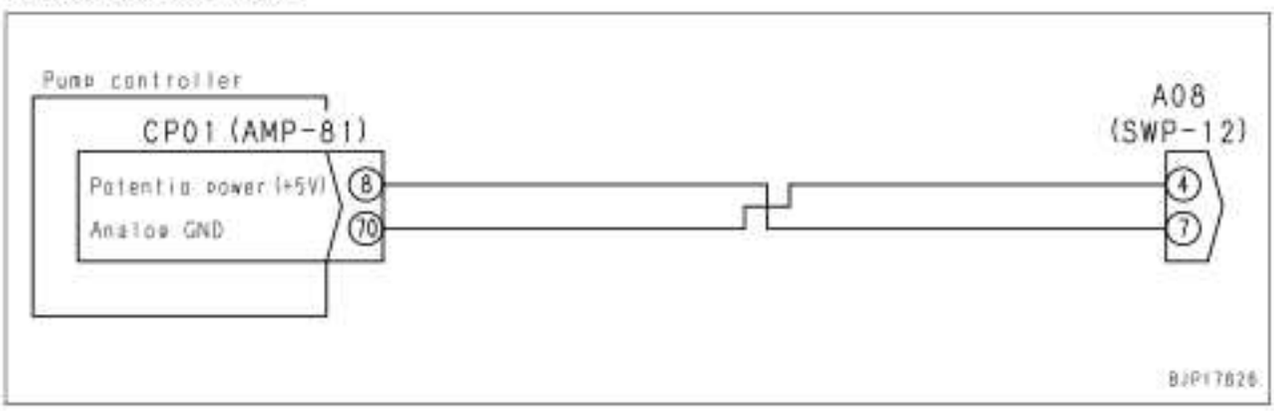
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Failure code [DA26KP] 5V sensor 2 power abnormality

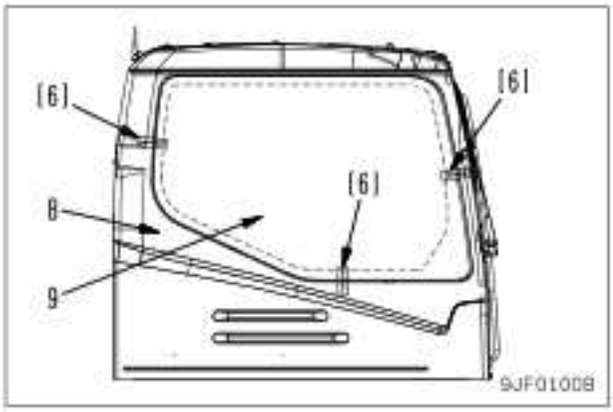
User code	Failure code	Trouble	5V sensor power supply output 2 abnormality (Pump controller system)
—	**DA26KP**		
Contents of trouble	• Voltage of 5V sensor power supply output 2 circuit is below 2.5 V or above 6.0 V.		
Action of controller	• Turns output of 5V sensor power supply output 2 OFF. • Even if cause of failure disappears, system does not reset itself until starting switch is turned OFF.		
Problem that appears on machine			
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	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 CP01 (female) (8) – A08 (female) (7) and chassis ground	Resistance	Min. 1 MΩ
	2	Hot short (Short circuit with 24V circuit) in wiring harness	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			Wiring harness between CP01 (female) (8) – A08 (female) (7) and chassis ground	Voltage	Max. 1 V
	3	Defective pump controller	If causes 1 – 2 are not detected, pump controller may be defective. (Since trouble is in system, troubleshooting cannot be carried out.)		

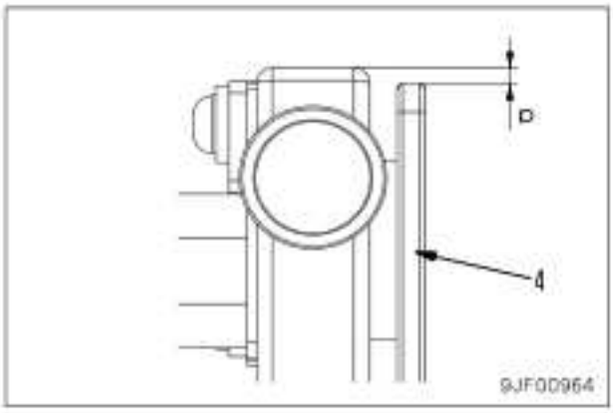
Circuit diagram related



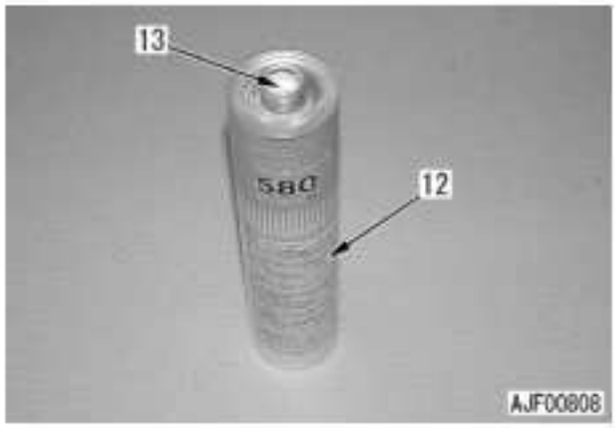
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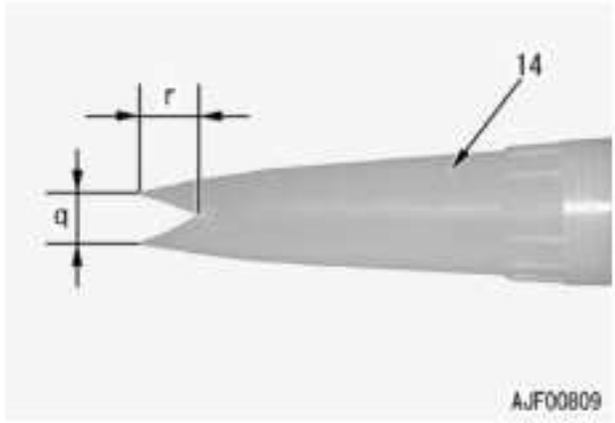
★ When positioning front window glass (4), set its horizontal position to the frame width.
And set its vertical position to make the height difference (p) between the frame top and the front window glass 3 mm.



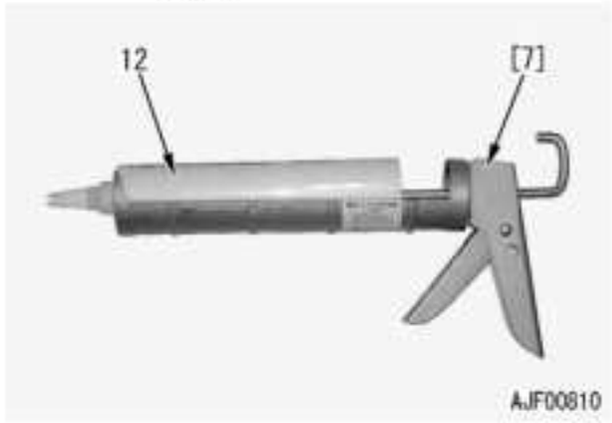
6. Apply adhesive.
★ Use either of two types of adhesives according to the season.
Adhesive (Apr. to Oct.):
Sunstar penguine seal 580 super "S" or equivalent
Adhesive (Oct. to Apr.):
Sunstar penguine seal 580 super "W" or equivalent
★ The using limit of the adhesive is 4 months after the date of manufacture. Do not use the adhesive after this limit.
★ Keep the adhesive in a dark place where the temperature is below 25?.
★ Never heat the adhesive higher than 30?.
★ When reusing the adhesive, remove the all hardened part form the nozzle tip.
1) Break aluminum seal (13) of the outlet of adhesive cartridge (12) and install the nozzle.



2) Cut the tip of the adhesive nozzle (14) so that dimensions (q) and (r) will be as follows.
- Dimension (q): **10 mm**
- Dimension (r): **15 mm**



3) Set adhesive cartridge (12) to caulking gun [7].
★ An electric caulking gun is more efficient.

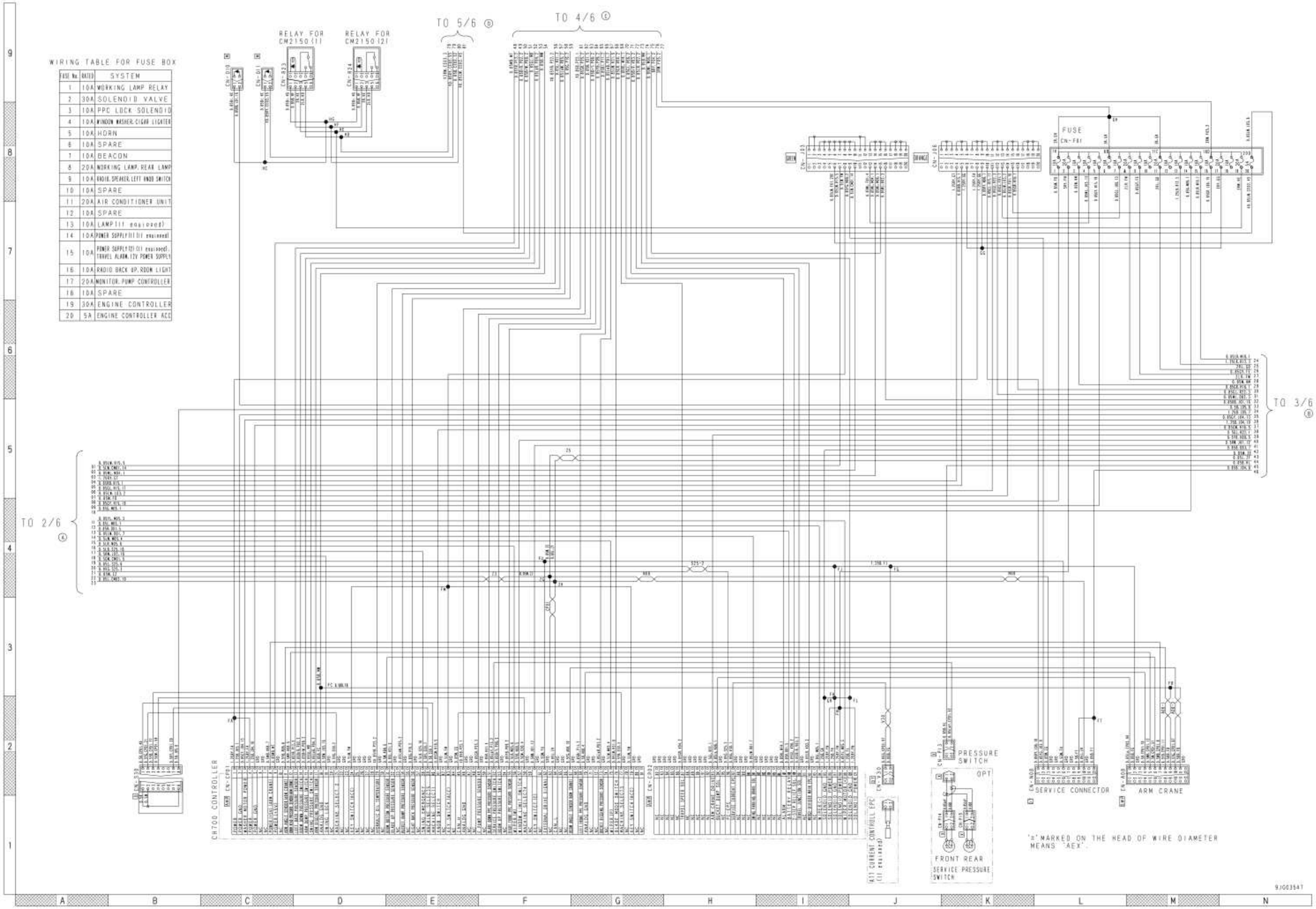


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Electrical circuit diagram (1/5)
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WIRING TABLE FOR FUSE BOX

FUSE No.	RATED	SYSTEM
1	10A	WORKING LAMP RELAY
2	30A	SOLENOID VALVE
3	10A	PPC LOCK SOLENOID
4	10A	WINDOW WASHER, CIGAR LIGHTER
5	10A	HORN
6	10A	SPARE
7	10A	BEACON
8	20A	WORKING LAMP, REAR LAMP
9	10A	RADIO, SPEAKER, LEFT KNOB SWITCH
10	10A	SPARE
11	20A	AIR CONDITIONER UNIT
12	10A	SPARE
13	10A	LAMP (if equipped)
14	10A	POWER SUPPLY (if equipped)
15	10A	POWER SUPPLY (2) (if equipped), TRAVEL ALARM, 12V POWER SUPPLY
16	10A	RADIO BACK UP, ROOM LIGHT
17	20A	MONITOR, PUMP CONTROLLER
18	10A	SPARE
19	30A	ENGINE CONTROLLER
20	5A	ENGINE CONTROLLER ACC



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