SEBM036303

SHOP MANUAL

KOMATSU®

PC130-7

MACHINE MODEL

PC130-7

SERIAL NUMBER

70001 and up

- This shop manual may contain attachiments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

- PC130-7 mounts the SAA4D95LE-3 engine.
  For details of the engine, see the 95-3 Series Engine Shop Manual.

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●	Page to be replaced	Replace
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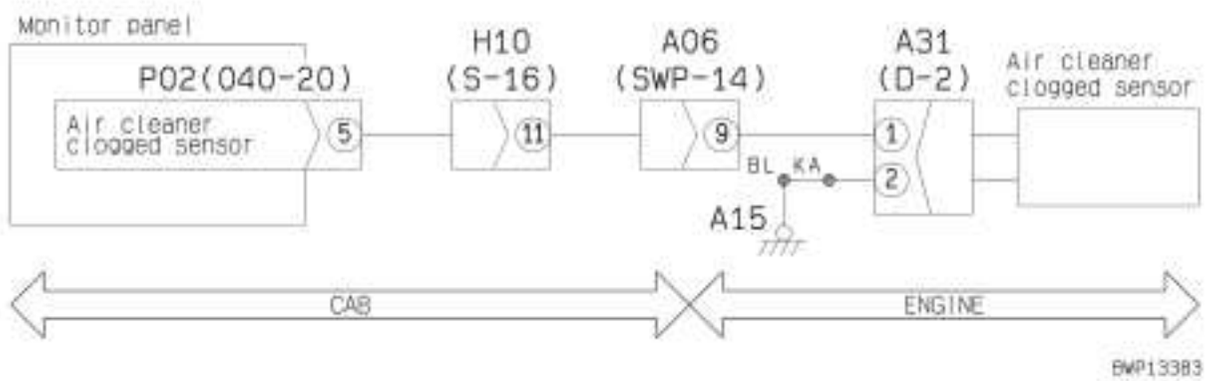
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Error code [104] (Clogging of air cleaner)

User code	Error code	Trouble	Clogging of air cleaner(Monitor panel system)
–	104		
Contents of trouble	• The signal circuit of the air cleaner clogging switch is opened (disconnected from the chassis ground) while the engine is running.		
Action of monitor panel	• None in particular.		
Problem that appears on machine	• If the machine is operated as it is, the engine may be damaged.		
Related information	• If the air cleaner clogging monitor of the monitor panel flashes while the engine is running, this error code is recorded. • The input state (ON/OFF) from the air cleaner clogging switch can be checked with the monitoring function. (Code: 046, Right of upper line)		

	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Clogging of air cleaner (When system is normal)	Check the air cleaner. If it is clogged, clean or replace it.			
	2	Defective air cleaner clogging switch (Internal disconnection)	★Prepare with starting switch OFF, then start engine and carry out troubleshooting.			
			A31 (male)	Air cleaner	Resistance	
			Between (1) and (2)	When normal	Max.1 Ω	
				When clogged	Min.1 MΩ	
	3	Disconnection in wiring harness (Disconnection in wiring harness or defective contact in connector)	★Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch.			
			Wiring harness between P02 (female) (5) and A31 (female) (1)		Resistance	Max.1 Ω
			Wiring harness between P11 (female) (2) and chassis ground (A15)		Resistance	Max.1 Ω
	4	Defective monitor panel	★Prepare with starting switch OFF, then start engine and carry out troubleshooting.			
			P02	Air cleaner	Voltage	
			Between (5) and chassis ground	When normal	Max. 1 V	
				When clogged	20 – 30 V	

Circuit diagram related to air cleaner clogging switch



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H-11 Hydraulic drift of work equipment is large

Trouble	(1) Hydraulic drift of boom is large.
Related information	• Carry out the troubleshooting in working mode A.

		Cause	Standard value in normal state/Remarks on troubleshooting	
Possible causes and standard value in normal state	1	Defective boom cylinder (cylinder unit)	★Prepare with engine stopped, then run engine at high idling and carry out troubleshooting.	
			Boom cylinder	Leakage from cylinder
			Relieved in RAISE position	15 cc/min
	2	Defective seal of boom cylinder (lock valve)	The seal of the lock valve of the boom cylinder may be defective. Check it directly.	

Trouble	(2) Hydraulic drift of arm is large.
Related information	• Carry out the troubleshooting in working mode A.

		Cause	Standard value in normal state/Remarks on troubleshooting	
Possible causes and standard value in normal state	1	Defective arm cylinder (cylinder unit)	★Prepare with engine stopped, then run engine at high idling and carry out troubleshooting.	
			Arm cylinder	Leakage from cylinder
			Relieved in IN position	15 cc/min
	2	Defective seal of arm control lever (spool)	The seal of the arm control valve spool may be defective. Check it directly.	
	3	Defective seal of arm control lever (suction valve)	The seal of the suction valve of the arm control valve may be defective. Check it directly.	
	4	Defective seal of centralized safety-suction valve	The seal of the centralized safety-suction valve of the control valve may defective. Check it directly. (A trouble of the centralized safety-suction valve have bad effects on bucket.)	

Trouble	(3) Hydraulic drift of bucket is large.
Related information	• Carry out the troubleshooting in working mode A.

		Cause	Standard value in normal state/Remarks on troubleshooting	
Possible causes and standard value in normal state	1	Defective bucket cylinder (cylinder unit)	★Prepare with engine stopped, then run engine at high idling and carry out troubleshooting.	
			Bucket cylinder	Leakage from cylinder
			Relieved in CURL position	15 cc/min
	2	Defective seal of bucket control valve (spool)	The seal of the bucket control valve spool may be defective. Check it directly.	
	3	Defective seal of bucket control valve (suction valve)	The seal of the suction valve of the bucket control valve may be defective. Check it directly.	
	4	Defective seal of centralized safety-suction valve	The seal of the centralized safety-suction valve of the control valve may defective. Check it directly. (A trouble of the centralized safety-suction valve have bad effects on arm.)	

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REMOVAL AND INSTALLATION OF COUNTERWEIGHT ASSEMBLY

REMOVAL

1. Sling the counterweight assembly temporarily.
2. Remove 4 mounting bolts (1). [*1]



3. Lift off counterweight assembly (2). [*2]

Counterweight assembly: **2,500 kg**



INSTALLATION

- Carry out installation in the reverse order to removal.

[*1]

Threads of mounting bolt: **Adhesive (LT-2)**

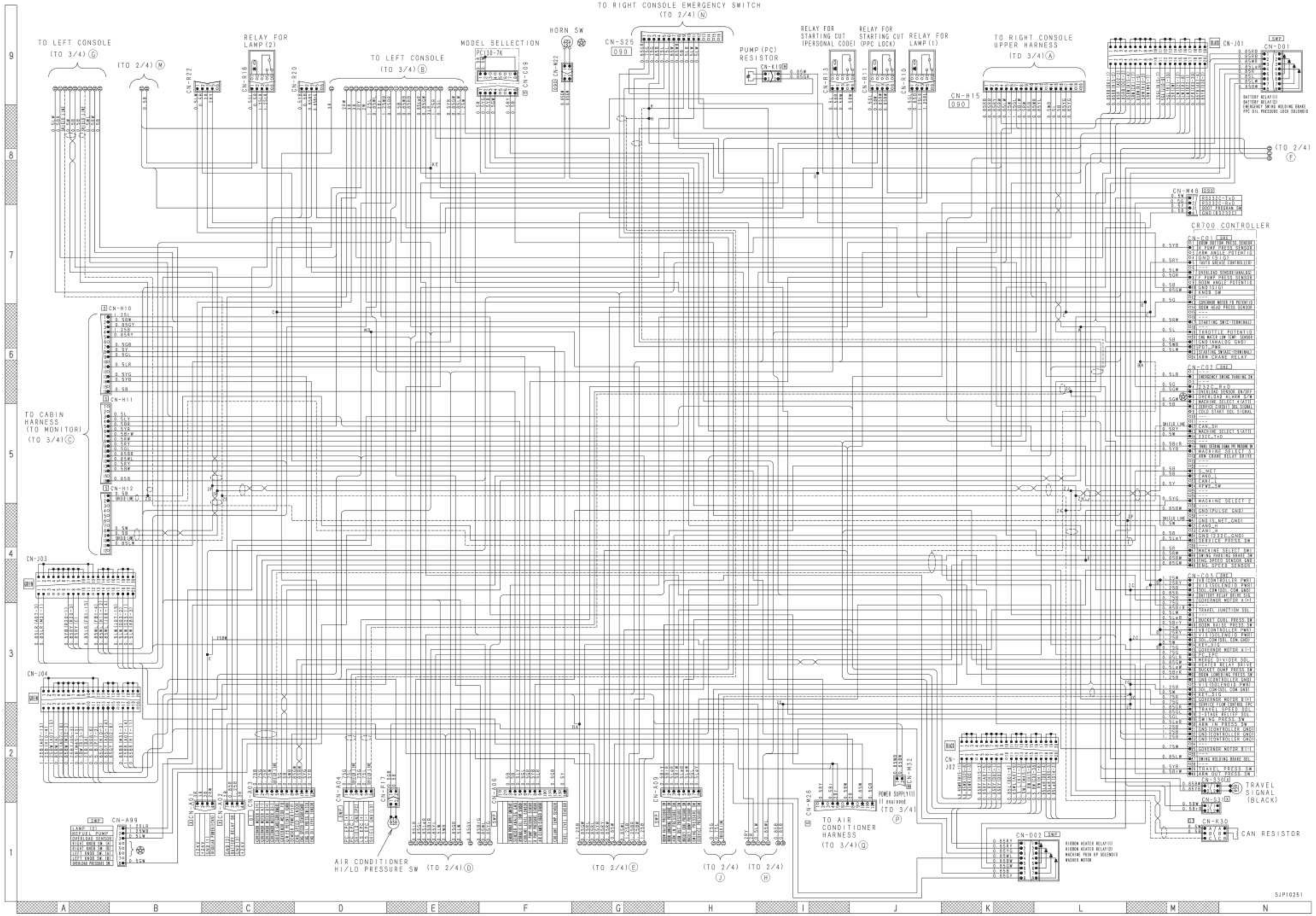
Mounting bolt: **1,177 – 1,470 Nm {120 – 150 kgm}**
Target: 1,324 Nm {135 kgm}

[*2]

★ Adjust the clearance between the counterweight and revolving frame and the clearance between the counterweight and outside door to 10 ± 5 mm on right and left sides.

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ELECTRICAL CIRCUIT DIAGRAM (1/4)



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