CEBM028501

Shop Manual

KOMATSU®

PC240LL-10

LOG LOADER
ROAD BUILDER

SERIAL NUMBERS **PC240LL-10 A20601 and up**

ENGINE **6D107E-2**

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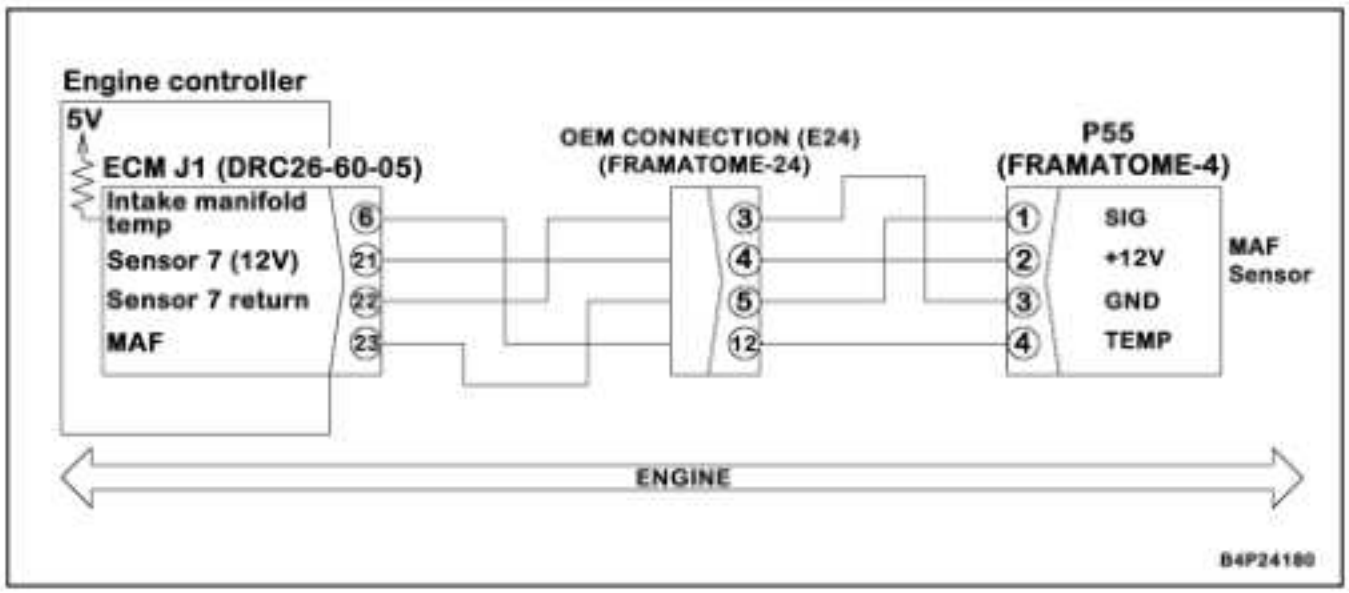
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Circuit diagram related to mass air flow sensor



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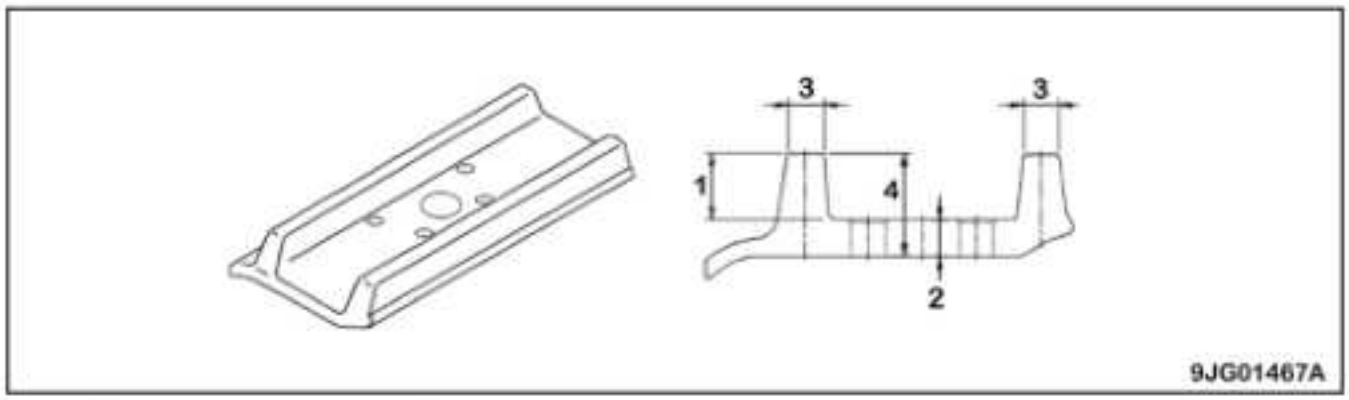
Failure Code [CA3322] KDPF Outlet Temp Sens In Range Error

Action level	Failure code	Failure	KDPF outlet temperature sensor in-range error (Engine controller system)
L03	**CA3322**		
Details of failure	• Temperatures sensed by KDPF outlet temperature sensor deviate from estimated values.		
Action of controller	• KDOC outlet temperature is substituted for KDPF outlet temperature to continue operation (if the KDOC outlet temperature sensor is also abnormal, the default value (250°C {482°F}) is taken as KDPF outlet temperature to continue operation.) • Closes EGR valve. • Limits engine output and allows engine to run • Disables KDPF of its regeneration control.		
Problem on machine	• Engine output lowers.		
Related information	**WARNING!** Since the temperature of the KDPF and KDOC will become higher than 500°C {932°F}, take care not to get burn injury. • Signal voltage from the KDOC inlet temperature sensor can be checked by using monitoring function. (Code: 47301 (V)) • Temperature sensed by the KDOC inlet temperature sensor can be checked by using monitoring function. (Code: 47300 (C)) • Signal voltage from the KDOC outlet temperature sensor can be checked by using monitoring function. (Code: 47401 (V)) • Temperature sensed by the KDOC outlet temperature sensor can be checked by using monitoring function. (Code: 47400 (C)) • Signal voltage from the KDPF outlet temperature sensor can be checked by using monitoring function. (Code: 47201 (V)) • Temperature sensed by the KDPF outlet temperature sensor can be checked by using monitoring function. (Code: 47200 (C)) • The KDOC inlet temperature sensor connector label "TEMP1" is indicated on the KDPF temperature sensor integrated box in black embossed letters (same for KDOC outlet temperature sensor connector label "TEMP2" and KDPF outlet sensor connector label "TEMP3"). • Method of reproducing failure code: Starting switch: ON **[Clearing failure codes]** Since there is a possibility of error occurring during operation, start the engine and run at high idle for 15 minutes. If this failure code is cleared, repair is complete.		

No.	Cause	Procedure, measuring location, criteria and remarks
1	Defective KDPF outlet temperature sensor	If failure code [CA3319] or [CA3321] is displayed, carry out troubleshooting for it first.
2	Defective wiring harness connector	1. See descriptions of wirings harness and connectors in "c: Electrical equipment" in "Checks before troubleshooting" of "General information on troubleshooting", and check them. 2. Starting switch: ON
		If this failure code does not appear, the harness connector is defective. ★ If this failure code appears, perform the following.

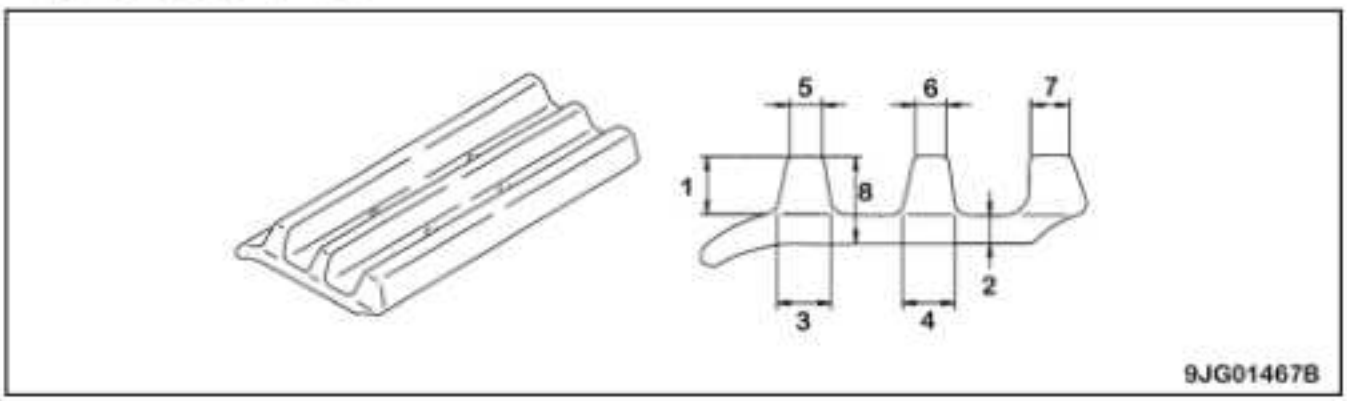
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Double Grouser Shoe



No.	Check item	Criteria		Remedy
		Standard dimension	Repair limit	
1	Height	49.5 mm (1.95 in)	31.5 mm (1.24 in)	Rebuild or replace
2	Thickness	15 mm (0.59 in)		
3	Width at tip	23 mm (0.91 in)		
4	Thickness	64.5 mm (2.54 in)		

Triple Grouser Shoe



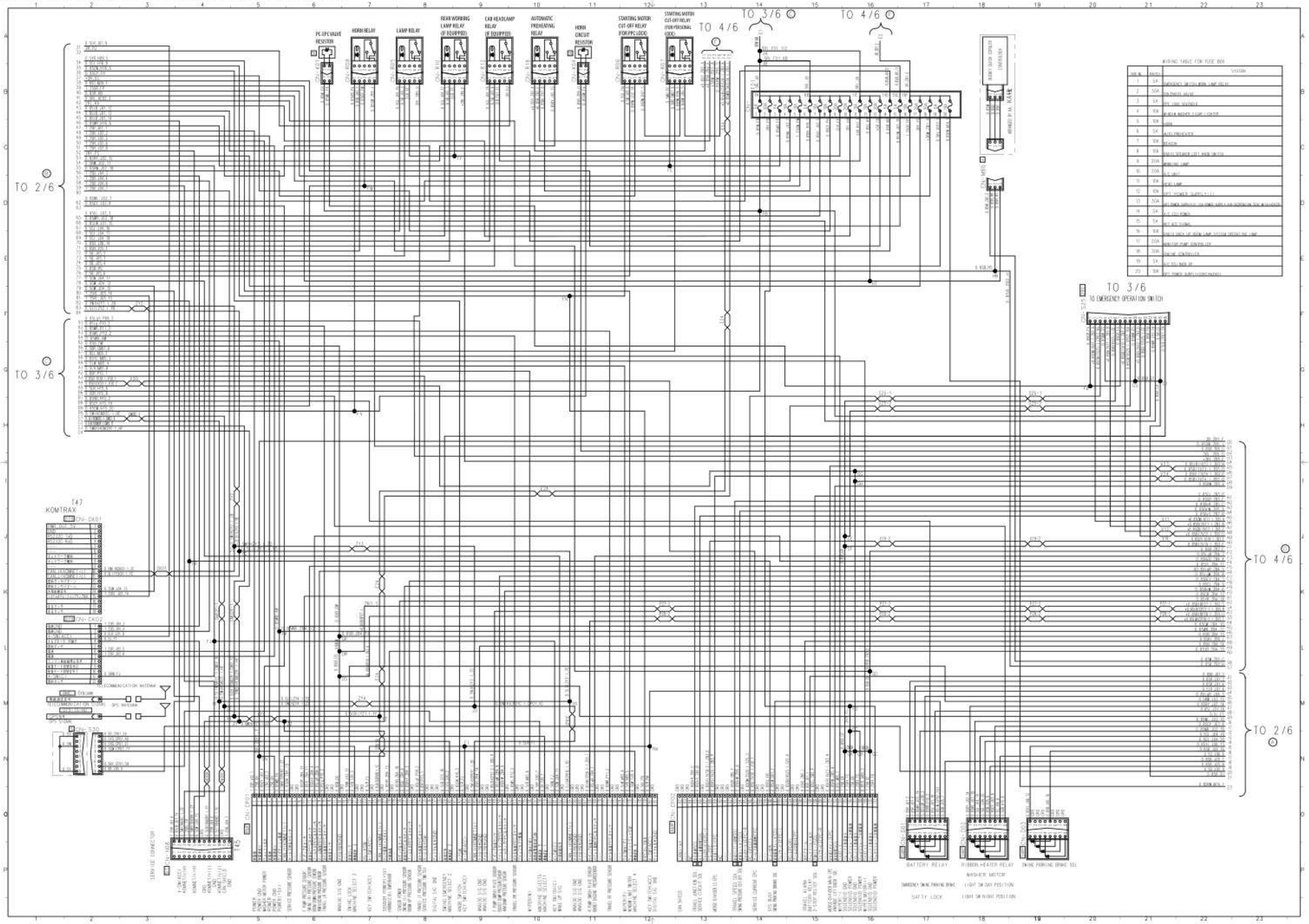
No.	Check item	Criteria		Remedy
		Standard dimension	Repair limit	
1	Height	36 mm (1.4173 in)	24 mm (0.9448 in)	Build-up welding or replace
2	Thickness	11 mm (0.4330 in)		
3	Length of base	32 mm (1.2598 in)		
4		26 mm (1.0236 in)		
5	Length at tip	24 mm (0.9448 in)		
6		18 mm (0.7086 in)		
7		18 mm (0.7086 in)		
8	Thickness	Standard dimension	Repair limit	
		47 mm (1.8503 in)	35 mm (1.3779 in)	

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Electrical circuit diagram (1/6)

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



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