SEN05619-04

Shop Manual

HYDRAULIC
EXCAVATOR

PC360LC-10

SERIAL NUMBERS 70001 and up

KOMATSU®

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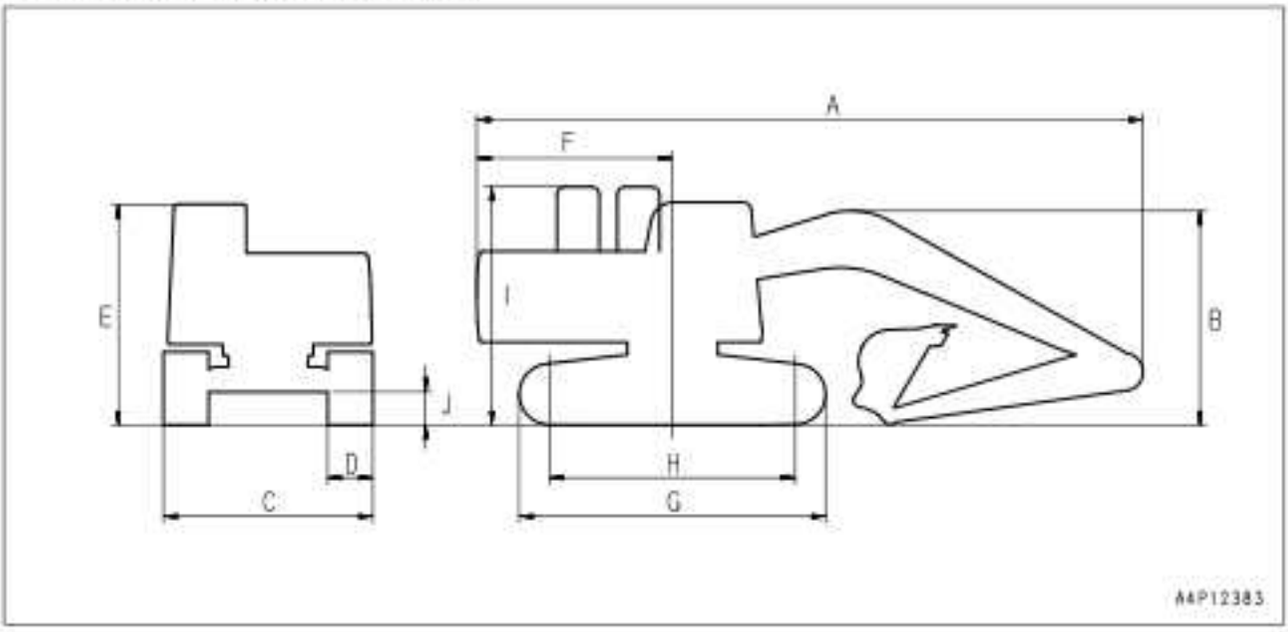
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Specifications (ALL-2111-001-A-00-A)

Specification drawing (ALL-2110-001-A-00-A)

PC360LC-10 (PC300_10-2110-931-A-00-A)



	Item	Unit	PC360LC-10
	Machine weight	kg	35,140
	Bucket capacity	m^3	1.4
	Engine model	-	Komatsu SAA6D114E-5 diesel engine
	Engine rated horsepower • SAE J1995(Gross) • ISO 14396 • ISO 9249/SAE J1349(Net)	kW{HP}/min^{-1} {rpm}	202 {271}/1,950 {1,950} 202 {271}/1,950 {1,950} 192 {257}/1,950 {1,950}
A	Overall length	mm	11,145
B	Overall height (including grouser height)	mm	3,285
C	Overall width	mm	3,440
D	Shoe width	mm	850
E	Cab height (including shoe grouser height)	mm	3,160
F	Tail swing radius	mm	3,445
G	Overall length of track	mm	4,955
H	Distance between tumbler centers	mm	4,030
I	Handrail height (including grouser height)	mm	3,255
J	Min. ground clearance	mm	498
	Travel speed (Lo/Mi/Hi)	km/h	3.2/4.5/5.5
	Swing speed	min^{-1} {rpm}	9.5 {9.5}

★ The engine flywheel horsepower is indicated in the net value and gross value. Gross denotes the rated output measured on the bare engine unit. While, net denotes the value measured of an engine under the condition essentially the same as that when it is installed on machine.

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Failure code [CA3317] KDOC Outlet Temp Sens High Error (PC200LC_10-CA3317-400-A-Z0-A)

Action level	Failure code	Failure	KDOC Outlet Temperature Sensor High Error (Engine controller system)
L03	CA3317		
Detail of failure	• High voltage appears in KDOC outlet temperature sensor circuit.		
Action of controller	• Uses KDOC inlet temperature for KDOC outlet temperature to run engine. (If failure is detected in KDOC inlet temperature sensor, too, controller takes it that KDOC outlet temperature is at default value (250°C) and allows engine to run.) • Closes EGR valve. • Limits engine output and allows engine to run. • Stops KDPF regeneration control.		
Problem on machine	• Engine output decreases.		
Related information	⚠ **Since KDPF and KDOC are heated to 500°C or above, take care not to get burn injury.** • Signal voltage from KDOC inlet temperature sensor can be checked with monitoring function. (Code: 47301 (V)) • Temperature sensed by KDOC inlet temperature sensor can be checked with monitoring function. (Code: 47300 (°C)) • Signal voltage from KDOC outlet temperature sensor can be checked with monitoring function. (Code: 47401 (V)) • Temperature sensed by KDOC outlet temperature sensor can be checked with monitoring function. (Code: 47400 (°C)) • Signal voltage from KDPF outlet temperature sensor can be checked with monitoring function. (Code: 47201 (V)) • Temperature sensed by KDPF outlet temperature sensor can be checked with monitoring function. (Code: 47200 (°C)) • This failure code appears if sensor connector is disconnected. • If failure codes [CA3314] and [CA3319] are also displayed, connector in KDPF temperature sensor consolidating box may be disconnected or probably has open circuit (defective contact of connector) in ground line. • KDOC inlet temperature sensor connector label "TEMP1" expressed in black embossed letters is seen on KDPF temperature sensor consolidating box (KDOC outlet temperature sensor connector label "TEMP2" and KDPF outlet sensor connector label "TEMP3" are shown similarly to "TEMP1"). • Method of reproducing failure code: Turn starting switch to ON position. <How to clear failure code> To avoid error due to improper operation, start and run engine at idle for 1 minute. If this failure code is cleared, repair is complete.		

No.	Cause	Procedure, measuring location, criteria and remarks
1	Defective wiring harness connector	1. See descriptions of wiring harness and connectors in "c: Electrical equipment" in "Checks before troubleshooting" of "General information on troubleshooting", and check it. 2. Turn starting switch to ON position.
		If this failure code disappears, wiring harness connector is defective. ★ If this failure code appears, perform following checks.

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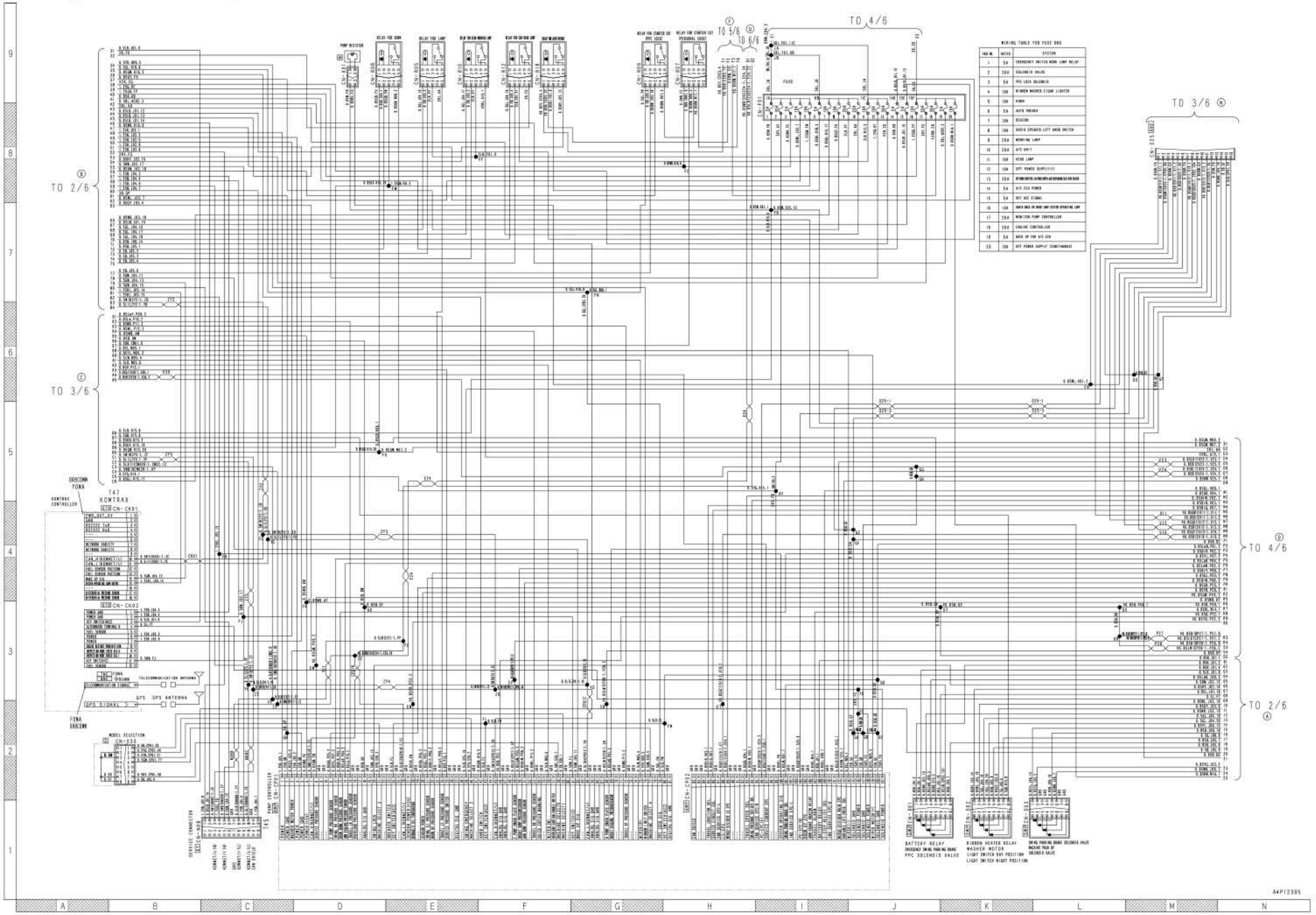
<table>
<tr><th>No.</th><th>Cause</th><th colspan="3">Procedure, measuring location, criteria and remarks</th></tr>
<tr><td rowspan="4">3</td><td rowspan="4">Open circuit in wiring harness
(wire breakage or defective contact of connector)</td><td colspan="3">1. Turn starting switch to OFF position.
2. Disconnect connectors CP01 and P08, and connect T-adapters to each female side.</td></tr>
<tr><td rowspan="3">Resis-tance</td><td>★ If power supply voltage measured in check on cause 1 is normal, this check is not required.
Between CP01 (female) (70) and P08 (female) (1)</td><td>Max. 1 Ω</td></tr>
<tr><td>Between CP01 (female) (31) and P08 (female) (2)</td><td>Max. 1 Ω</td></tr>
<tr><td>★ If power supply voltage measured in check on cause 1 is normal, this check is not required.
Between CP01 (female) (8) and P08 (female) (3)</td><td>Max. 1 Ω</td></tr>
<tr><td rowspan="2">4</td><td rowspan="2">Ground fault in wiring harness
(contact with ground circuit)</td><td colspan="3">1. Turn starting switch to OFF position.
2. Disconnect connectors CP01 and P08, and connect T-adapters to either female side.</td></tr>
<tr><td>Resis-tance</td><td>Between ground and CP01 (female) (31) or P08 (female) (2)</td><td>Min. 1 MΩ</td></tr>
<tr><td rowspan="2">5</td><td rowspan="2">Hot short circuit in wiring harness
(contact with 5 V/24 V circuit)</td><td colspan="3">1. Turn starting switch to OFF position.
2. Disconnect connector P08.
3. Connect T-adapters to female side of connector P08.
4. Turn starting switch to ON position.</td></tr>
<tr><td>Voltage</td><td>Between P08 (female) (2) and ground</td><td>Max. 1 V</td></tr>
<tr><td>6</td><td>Defective pump controller</td><td colspan="3">If no failure is found by above checks, pump controller is defective.
(Since this is an internal defect, troubleshooting cannot be performed.)</td></tr>
</table>

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Electrical circuit diagram (1/6)

PC360LC-10

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



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