UEBM000701

SHOP MANUAL

KOMATSU®

PC150-6K
PC150LC-6K

MACHINE MODEL	SERIAL NUMBER
PC150-6K	**K32001 and up** **K34001 and up**
PC150LC-6K	**K32001 and up** **K34001 and up**

- This shop manual may contain attachments 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.

- PC150-6K mount the SA4D102E engine;
  PC150LC-6K mount the SA4D102E engine.
  For details of the engine, see the 102 Service Engine Shop Manual.

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CONTENTS

		No. of page
01	GENERAL	01-1
10	STRUCTURE AND FUNCTION	10-1
20	TESTING AND ADJUSTING	20-1
30	DISASSEMBLY AND ASSEMBLY	30-1
40	MAINTENANCE STANDARD	40-1
90	OTHERS	90-1

-1

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FUEL, COOLANT AND LUBRICANTS

RESERVOIR	KIND OF FLUID	AMBIENT TEMPERATURE -22 -4 14 32 50 68 86 104°F -30 -20 -10 0 10 20 30 40°C	CAPACITY (ℓ)	
			Specified	Refill
Engine oil pan	Engine oil	SAE 30 / SAE 10W / SAE 10W-30 / SAE 15W-40	16	16
Swing machinery case			4	4
Final drive case (each side)			4	4
Idler (1 each)		SAE 30	0.16	0.16
Track roller (1 each)			0.10	0.10
Carrier roller (1 each)			0.16	0.16
Hydraulic system		SAE 10W / SAE 10W-30 / SAE 15W-40	196	135
Fuel tank	Diesel fuel	ASTM D975 No. 2 / ASTM D975 No.1	242	—
Cooling system	Coolant	Add antifreeze	20	—

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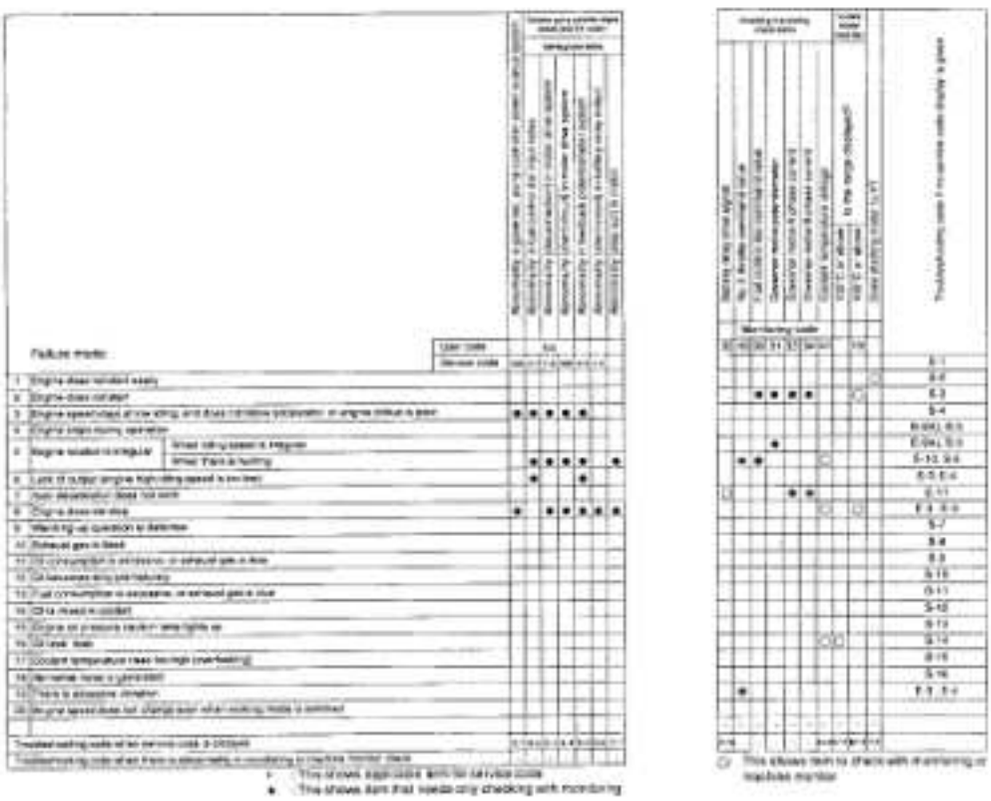
METHOD OF USING JUDGEMENT TABLE

This judgement table is a tool to determine if the problem with the machine is caused by an abnormality in the electrical system or by an abnormality in the hydraulic or mechanical system. the symptoms are then used to decide which troubleshooting table (E-○○, S-○○, C-○○, F-○○, H-○○, M-○○) matches the symptoms. The judgement table is designed so that it is easy to determine from the user code and service code which troubleshooting table to go to.

★ The abnormality display (warning) given by the monitor panel leads directly to troublehsooting of the machine monitor (M-○○). (See troubleshooting of the machine monitor system).

1. When using judgement table for governor, pump controller (governor control system) and engine related parts

- If a service code is displayed on the monitor panel, go to the troubleshooting code at the bottom of the judgement table (E-○○).
  (A ● Mark is put at the places where the failure mode and service code match).
- If a problem has appeared but no service code is displayed on the monitor panel. go to the point where the failure mode matches the troubleshooting code on the right of the judgement table (E- or S-).
  <Example> Failure mode "Engine does not start".
  Procedure: Check if the service code is being displayed on the monitor panel.



[Judgement]

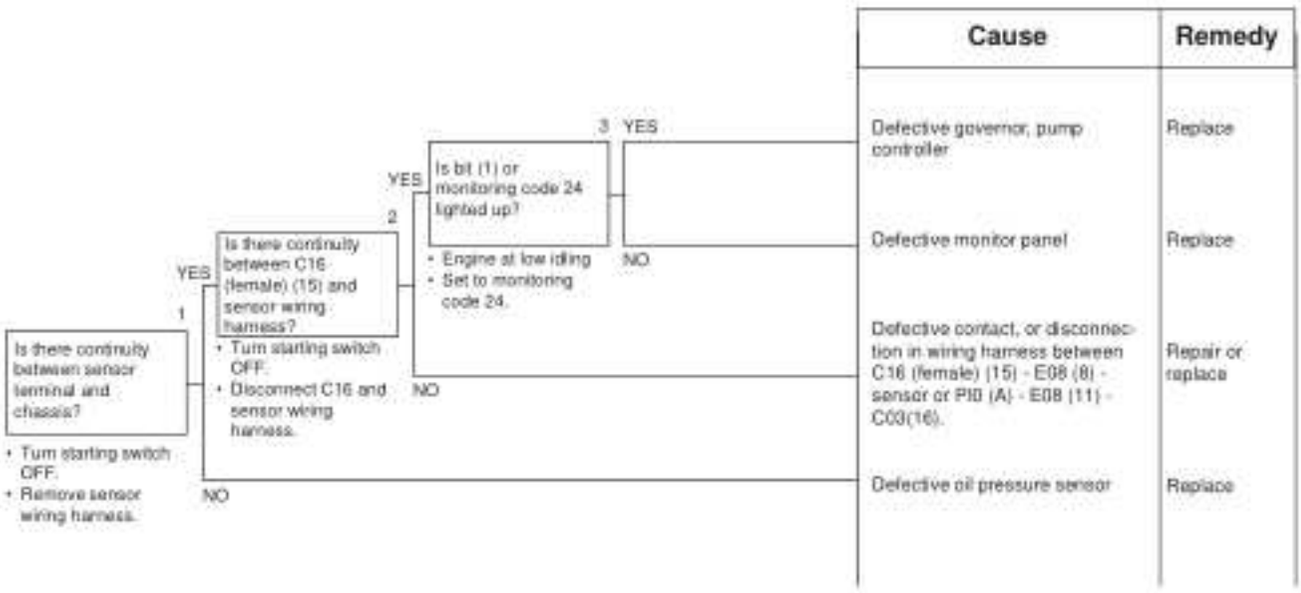
1) If a service code is being displayed on the monitor panel…go to troubleshooting [E3:○○] for the governor, pump controller (governor control system).
2) If no service code is displayed on the monitor panel, and the engine does not start:

- Check that starting motor rotates
  - Starting motor rotates ..... Go to troubleshooting S-2 of mechanical system
  - Starting motor does not rotate ..... Go to troubleshooting E-8 of electical system

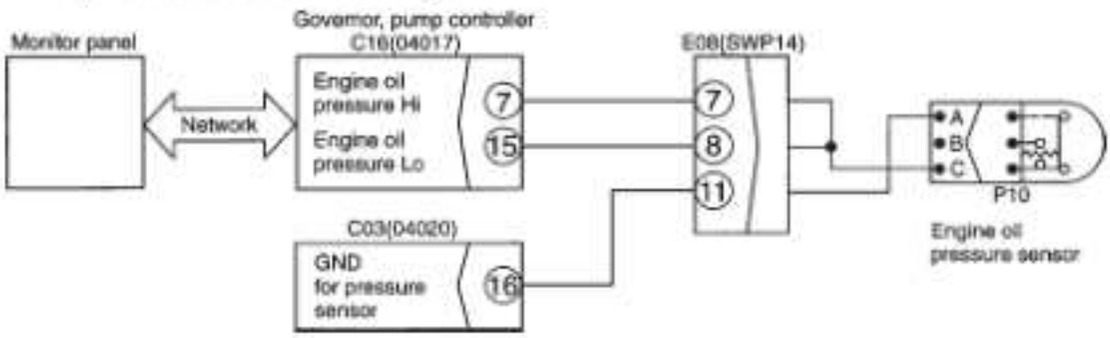
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b) Engine oil pressure sensor system

★ When engine oil pressure is normal.



M-12b) Related electric circuit diagram



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ELECTRICAL CIRCUIT DIAGRAM - SHEET 1 OF 4

FUSE BOX CONNECTION TABLE

FUSE NO.	CONNECTION TABLE	FUSE CAPACITY
1	GOVERNOR & PUMP CONTROLLER	10A
2	SOLENOID VALVE	10A
3	A/C MOTOR	20A
4	CAB BOX (LEFT BOX, RIGHT, ROOM LEFT, ROOM RIGHT)	20A
5	CIGAR LIGHTER, A/C CONTROLLER, HEATER, WINDOW WASHER, LEFT KNOB SWITCH	20A
6	HORN	10A
7	WIPER MOTOR CONTROLLER	10A
8	LAMP(CAB X 3) , BEACON	20A
9	LOWER WIPER, REFUELING PUMP, TRAVEL ALARM	20A
10	KEY ON SIGNAL	10A
11	LAMP(C/W, HEATED SEAT)	10A
12	ENGINE ROOM LAMP	10A
13	ALARM BUZZER, MONITOR	10A
14	BATTERY RELAY, START SIGNAL	20A
15	ROOM LAMP, RADIO	10A

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