CEBM001002

Shop Manual

KOMATSU®

PC200LC-6LE
PC210LC-6LE
PC220LC-6LE
PC250LC-6LE

HYDRAULIC EXCAVATOR

SERIAL NUMBERS	PC200LC-6LE	A83001	and UP
	PC210LC-6LE	A83001	
	PC220LC-6LE	A83001	
	PC250LC-6LE	A83001	

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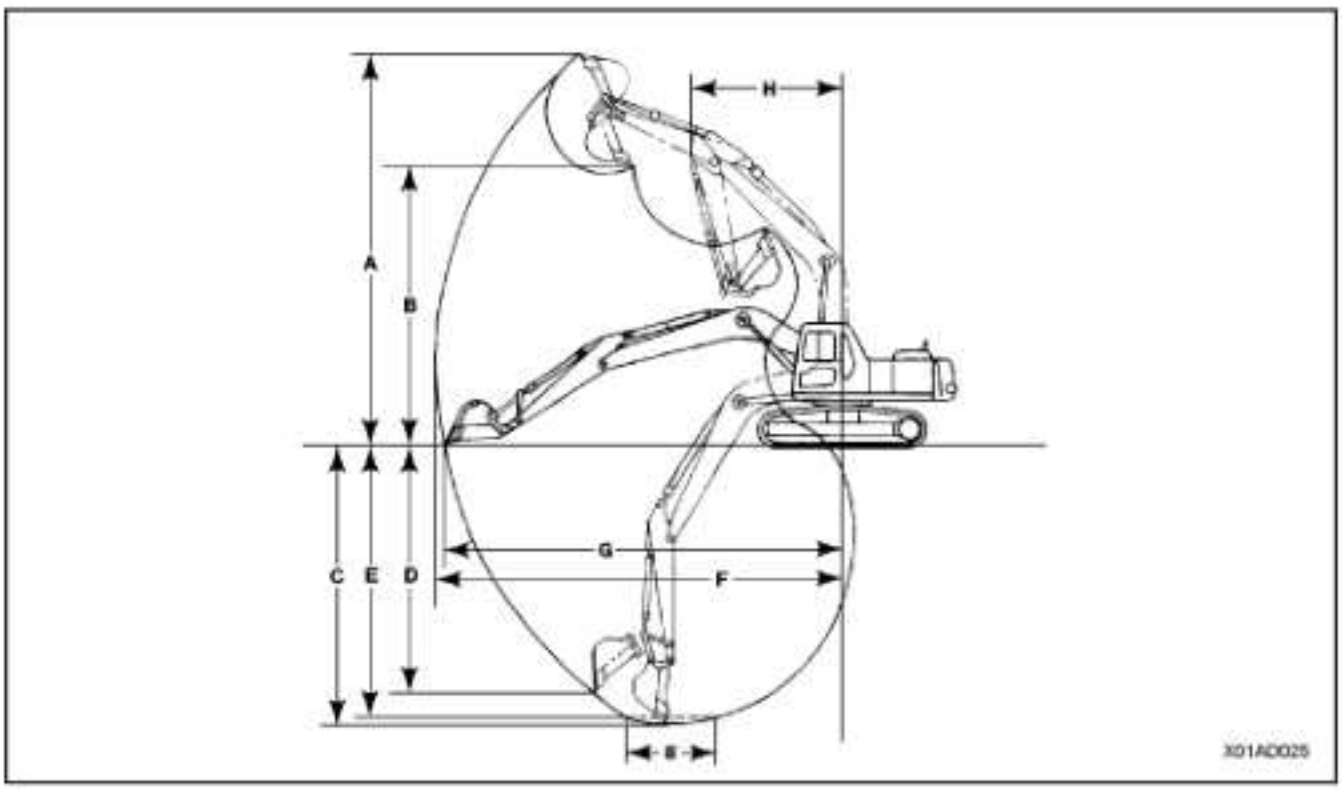
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	PC200LC-6LE, PC210LC-6LE	Arms			
		1.84 m	2.4 m	*2.93 m	**4.06 m
A	Maximum digging height	8895 mm	9050 mm	9305 mm	9700 mm
B	Maximum dumping height	6065 mm	6255 mm	6475 mm	6970 mm
C	Maximum digging depth	5535 mm	6095 mm	6620 mm	7725 mm
D	Maximum vertical wall digging depth	4965 mm	5315 mm	5980 mm	7075 mm
E	Maximum digging depth of cut for 8 ft level	5160 mm	5840 mm	6435 mm	7590 mm
F	Maximum digging reach	8915 mm	9395 mm	9875 mm	10880 mm
G	Maximum digging reach at ground	8720 mm	9205 mm	9700 mm	10705 mm
H	Minimum swing radius	3640 mm	3710 mm	3630 mm	3630 mm
	Bucket digging force***	♣14900 kg	12700 kg	12700 kg	12700 kg
	Arm crowd force***	13200 kg	11700 kg	10000 kg	8200 kg

* - **PC210LC-6** available with only this arm
** - 1.13m Extension arm + 2.93 arm
♣ - Optional bucket cylinder is required
*** - At power max.

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ELECTRICAL CIRCUIT DIAGRAM

Remark

See Electrical Circuit DIAGRAM FOLDOUTS in Section 90.

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3. Battery voltage (monitoring code 32). If the voltage is outside the standard range (see Standard Judgement Table), carry out Troubleshooting Chart E-1.

4. Electricity generation (charge input) voltage (monitoring code 43). The procedure for carrying out check item No. 3 is in Step 1a. and check item No. 4 begins at Step 1b. on the following pages.

The "S-NET" is the communication connection between the monitor panel and the controllers. If there is a disconnection or short circuit in the S-NET, the controller will automatically go into a default mode. The following chart illustrates what the outputs of the controllers will be in the default mode.
Default mode of the controllers when the monitor panel, pump controller, and engine throttle controller cannot communicate through the S-NET.

	Set mode	Pump control	Governor control
1	Working mode	G/O mode	H/O mode
2	Throttle signal	FULL	FULL
3	Auto-deceleration	ON (deceleration mode)	ON (deceleration mode)
4	Coolant temperature signal	OFF	---
5	Priority mode	OFF	---
6	Power max. mode	ON (power max. possible)	---
7	Travel speed	Lo	---
8	Automatic warming up	---	ON (automatic warming-up mode)

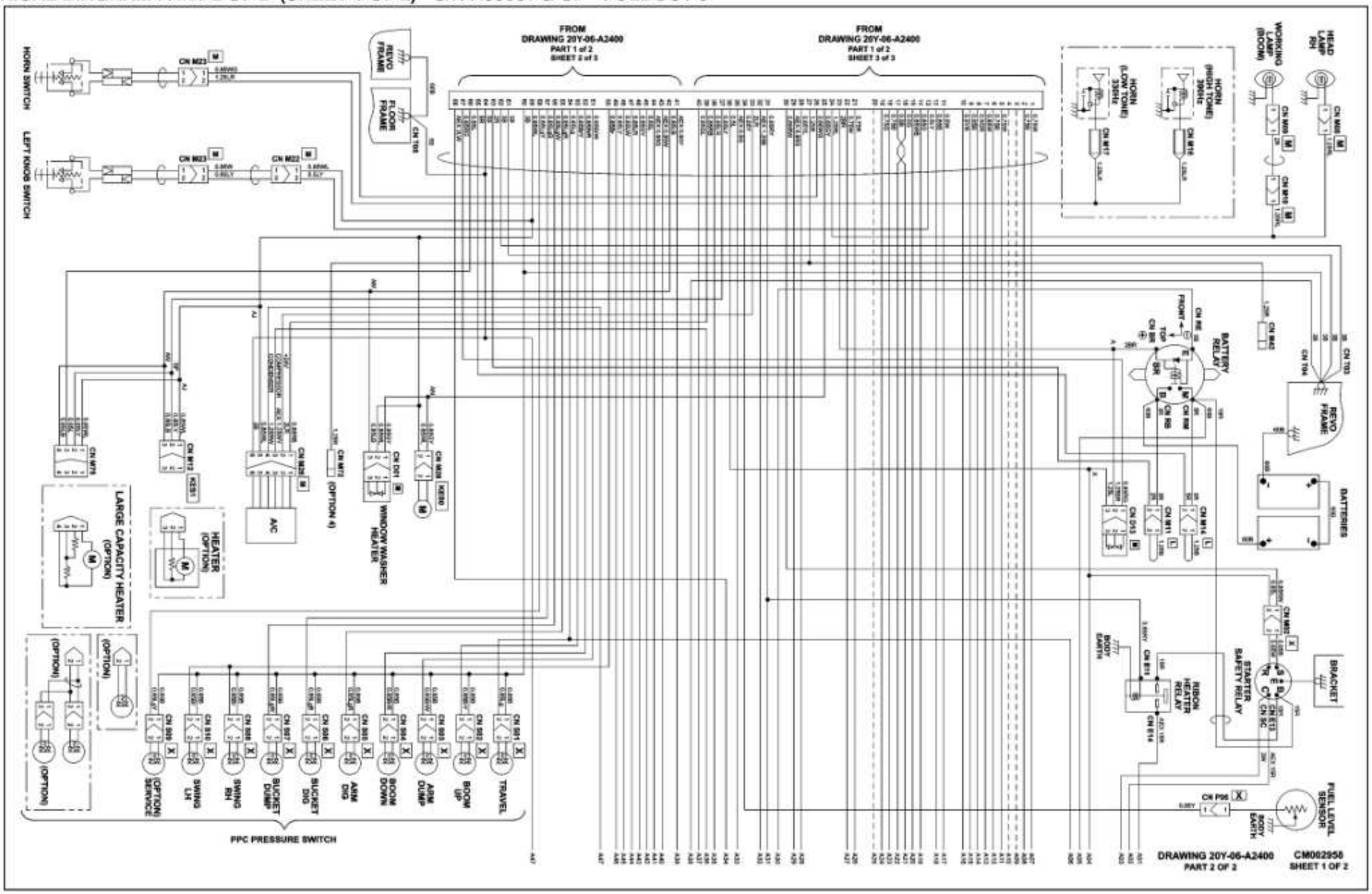
1. Procedure for checking monitor panel output signal.
   ★ For details of operating the monitoring mode, see MONITOR PANEL DISPLAY AND SPECIAL FUNCTIONS.
   A. To check the connection (S-NET) between the pump and engine throttle controller systems and the monitor panel:
      i. Set to the monitoring mode and display monitoring code 08.
      ii. Bit (1) will light up if the pump control system is connected properly. Bit (2) will light up if the engine governor control system is connected properly.
   B. To check that the working mode signal is functioning properly:
      i. Set to the monitoring mode and display monitoring code 16.
      ii. Set the fuel control dial to maximum, then change the working modes and verify that the outputs match the engine speeds listed in Table 1.
      iii. Set to the monitoring mode and display monitoring code 10.
      iv. Start the engine, switch the working modes and check that the engine rpm is within 60 rpm of the engine speeds listed in Table 1.

Table 1

		Engine speed - high idling [The figures in ( ) are the rated speed in rpm]	
Working mode	Operation	PC200LC-6 PC210LC-6	PC220LC-6 PC250LC-6
Active mode	Work equipment	Approx. 2,200 (2,000)	Approx. 2,300 (2,100)
	Travel	Approx. 2,200 (2,000)	Approx. 2,300 (2,100)
H/O	Work equipment	Approx. 2,000 (1,900)	Approx. 2,200 (1,980)
	Travel	Approx. 2,200 (2,000)	Approx. 2,300 (2,100)
G/O, F/O	Work equipment	Approx. 1,900 (1,700)	Approx. 2,000 (1,800)
	Travel	Approx. 1,900 (-)	Approx. 2,000 (-)
L/O	Work equipment	Approx. 1,650 (1,500)	Approx. 1,680 (1,500)
	Travel	Approx. 1,650 (-)	Approx. 1,680 (-)
B/O	Work equipment	Approx. 1,900 (1,700)	Approx. 2,000 (1,800)
	Travel	Approx. 1,900 (-)	Approx. 2,000 (-)

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ELECTRICAL DIAGRAM PART 2 OF 2 (SHEET 1 OF 2) - S/N A85001 & UP - FOLDOUT 9



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