CEBM4006C3

Shop Manual

KOMATSU®

PC400LC-6
PC400HD-6

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC400LC-6 - A80001** and up
PC400HD-6 - A80001

This material is proprietary to Komatsu America International Company and is not to be reproduced, used, or disclosed except in accordance with written authorization from Komatsu America International Company.

It is our policy to improve our products whenever it is possible and practical to do so. We reserve the right to make changes or add improvements at any time without incurring any obligation to install such changes on products sold previously.

Due to this continuous program of research and development, periodic revisions may be made to this publication. It is recommended that customers contact their distributor for information on the latest revision.

July 1997

Copyright 1997 Komatsu America International Company

MidWestTech | Komatsu PC400LC-6, PC400HD-6 Hydraulic Excavator Service Manual | Publication CEBM4006C3
Order the manual at mid-west-tech.com >

CONTENTS

01 GENERAL 01-1

10 STRUCTURE AND FUNCTION 10-1

20 TESTING AND ADJUSTMENT 20-1

30 DISASSEMBLY AND ASSEMBLY 30-1

40 MAINTENANCE STANDARD 40-1

MidWestTech | Komatsu PC400LC-6, PC400HD-6 Hydraulic Excavator Service Manual | Publi... Order the manual at mid-west-tech.com >

WEIGHT TABLE

Unit: kg

Machine model	PC400LC-6	PC400HD-6	PC400LC-6 Variable Gauge
Serial Number	A80001 and up		
Engine assembly	1420 kg		
• Engine	1080 kg		
• Damper	14.7 kg		
• Hydraulic pump	210 kg		
Radiator, oil cooler assembly	186 kg		
Hydraulic tank, filter assembly (exc oil)	254 kg		
Fuel tank (exc fuel)	231 kg		
Revolving frame	3120 kg		
Operators cab	287 kg		
Operators seat	29 kg		
Counterweight	8890 kg		
Swing machinery	535 kg		
Control valve (standard)	256 kg		
Swing motor	81 kg		
Travel motor	252 kg x 2		
Center swivel joint	37 kg		
Track frame assembly	11040 kg	13085 kg	12520 kg
• Track frame	6604 kg	8098 kg	
• Swing circle	605 kg		
• Idler	235 kg x 2		
• Idler cushion	365 kg x 2		
• Carrier roller	31 kg x 4		
• Track roller	73 kg x 16	73 kg x 20	73 kg x 16
• Final drive (includes travel motor)	788 kg x 2		

MidWestTech | Komatsu PC400LC-6, PC400HD-6 Hydraulic Excavator Service Manual | Publ... Order the manual at mid-west-tech.com >

POINT TO REMEMBER WHEN TROUBLESHOOTING PUMP CONTROLLER SYSTEM

1. **Points to remember if abnormality returns to normal by itself**
   In the following two cases, there is a high probability that the same problem will occur again, so it is desirable to follow up this problem carefully.
   1) If any abnormality returns to normal by itself, or
   2) If the connector is disconnected and the T-adapter is inserted, or if the T-adapter is removed and the connector is returned to its original position when carrying out troubleshooting of the failure, and the service code is no longer displayed, or if the monitor display returns to normal.
   3) After completing troubleshooting, always erase the user code from memory.

2. **User code memory retention function**
   When displaying the abnormality code in memory and carrying out troubleshooting, note down the content of the display, then erase the display. After trying to re-enact the problem, carry out troubleshooting according to the failure code that is displayed.
   (There are cases where mistaken operation or abnormalities that occur when the connector is disconnected are recorded by the memory retention function. Erasing the data in this way saves any wasted work.)

MidWestTech | Komatsu PC400LC-6, PC400HD-6 Hydraulic Excavator Service Manual | Pu... Order the manual at mid-west-tech.com >

REMOVAL OF CONTROL VALVE

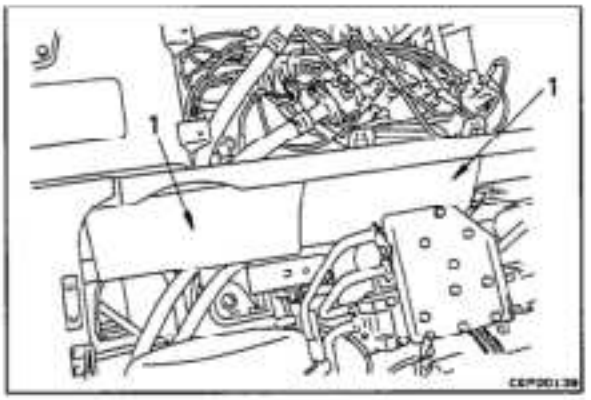
⚠ Lower the work equipment completely to the ground and stop the engine. Then loosen the oil filler cap slowly to release the pressure inside the hydraulic tank.

⚠ Release the remaining pressure in the hydraulic circuit. For details, see TESTING AND ADJUSTMENT, Releasing pressure in hydraulic circuit.

★ Match mark the PPC circuit hoses before disconnecting.

★ Fit blind plugs in the disconnected hoses and tubes.

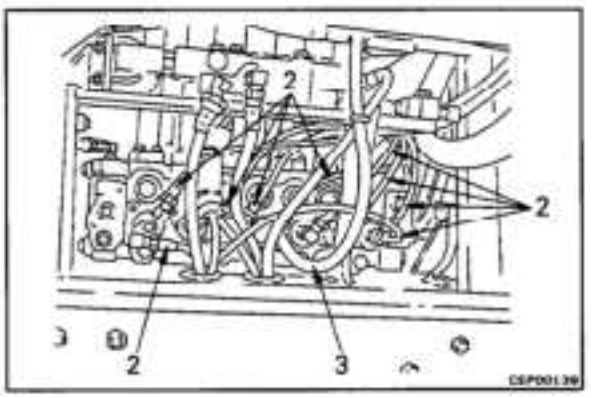
1. Open engine hood. Remove control valve top cover.



2. Remove partitions (1) (2 pieces).

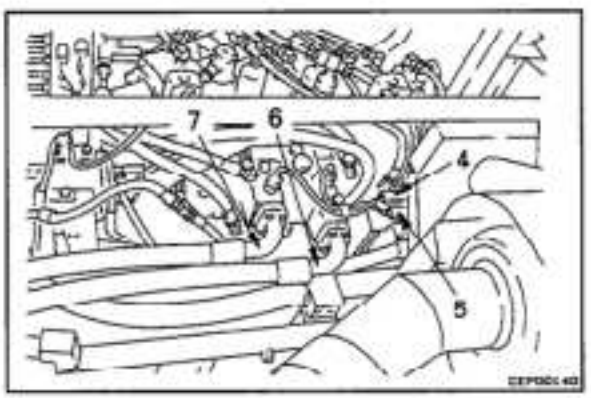
3. Disconnect nine bottom PPC hoses (2).

4. Disconnect pump merge/divider solenoid hose (3).

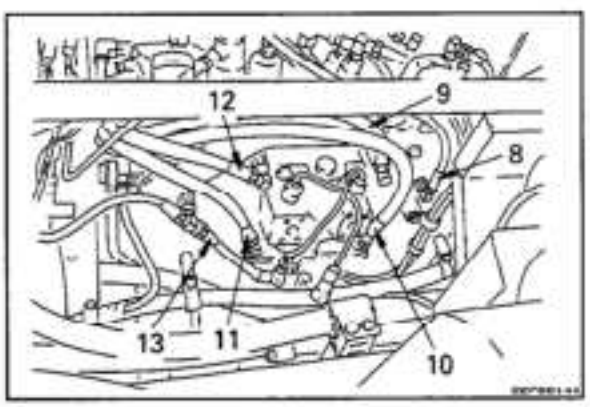


5. Disconnect pressure sensor connectors (4) and (5) (CN-CO8 and CN-CO7).

6. Disconnect main pump outlet hoses (6) and (7).



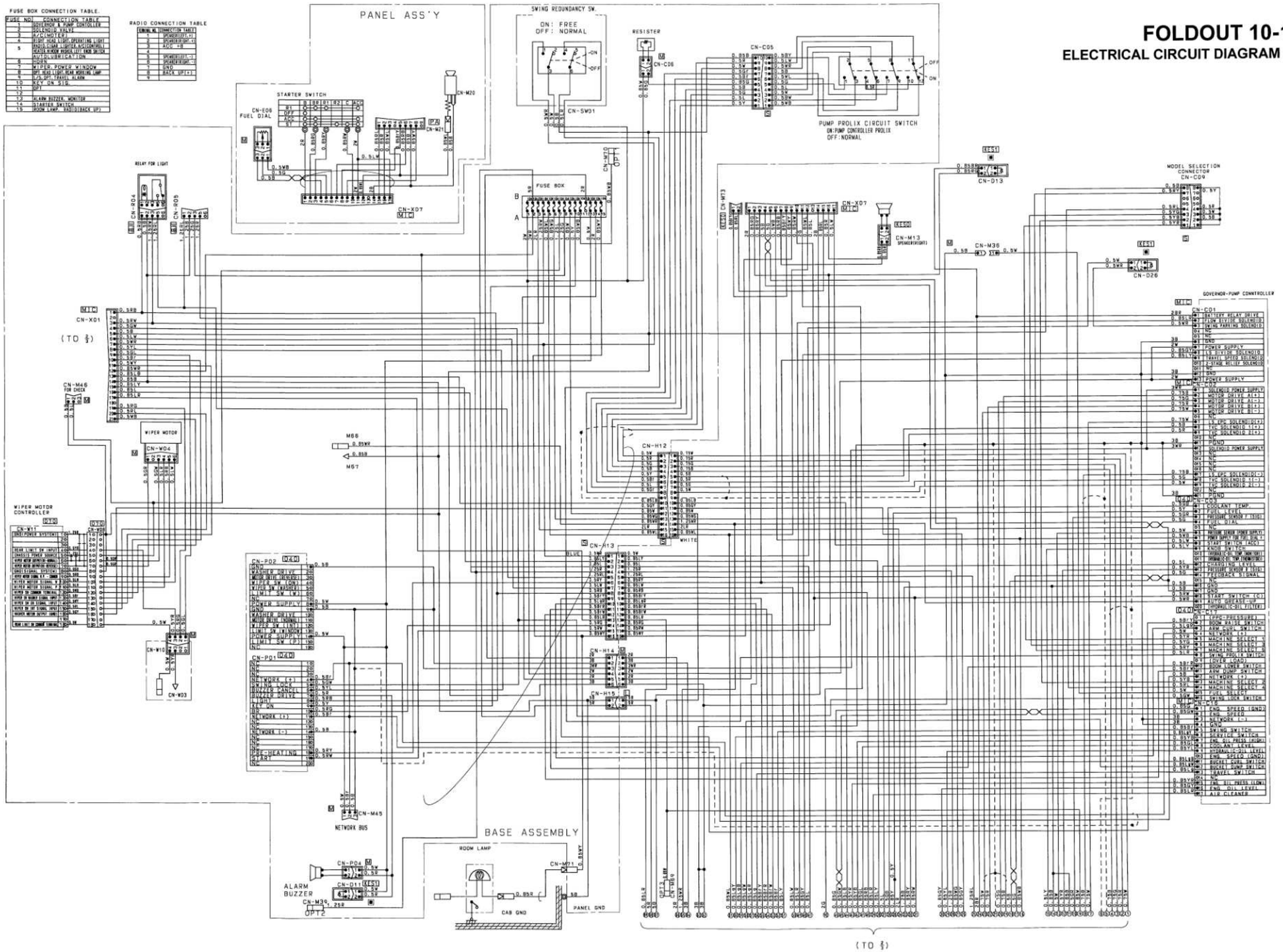
7. Disconnect hoses (8), (9), (10), (11), (12), and (13).
   ★ Hose (8): For arm boost PPC
   Hoses (9) and (10): For R.H. straight travel
   Hoses (11) and (12): For L.H. straight travel
   Hose (13): For drain circuit



MidWestTech | Komatsu PC400LC-6, PC400HD-6 Hydraulic Excavator Service Manual | Pu... Order the manual at mid-west-tech.com >

FOLDOUT 10-163

ELECTRICAL CIRCUIT DIAGRAM (1/3)



MidWestTech | Komatsu PC400LC-6, PC400HD-6 Hydraulic Excavator Service Manual | Publication CEBM4006C3

Order the manual at mid-west-tech.com >