CEBM0009104

Shop Manual

KOMATSU®

PC300LC-7L
PC300HD-7L

HYDRULIC EXCAVATOR

SERIAL NUMBERS **PC300LC-7L A85001**
PC300HD-7L A85001

ENGINE **6D114E-2**

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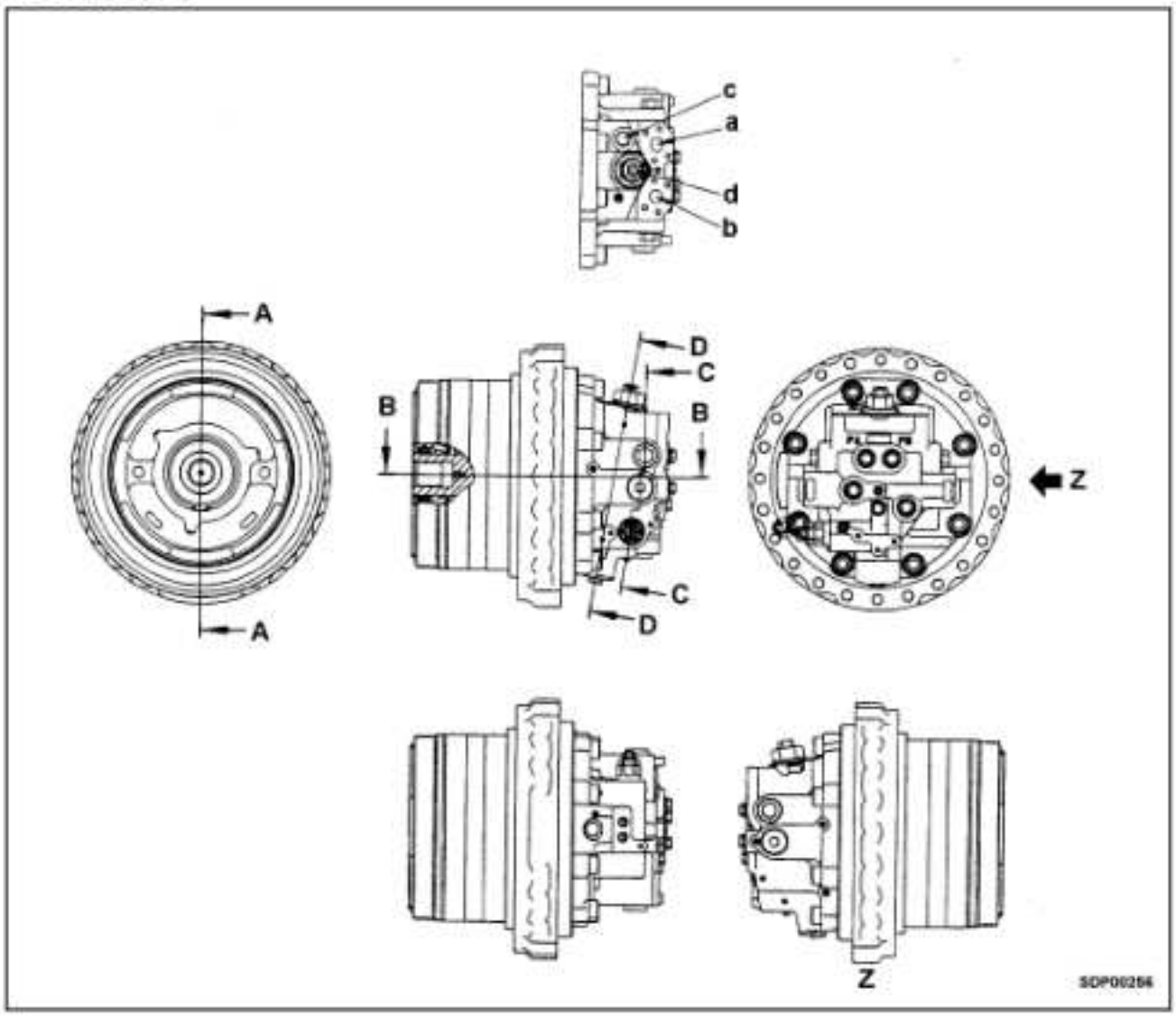
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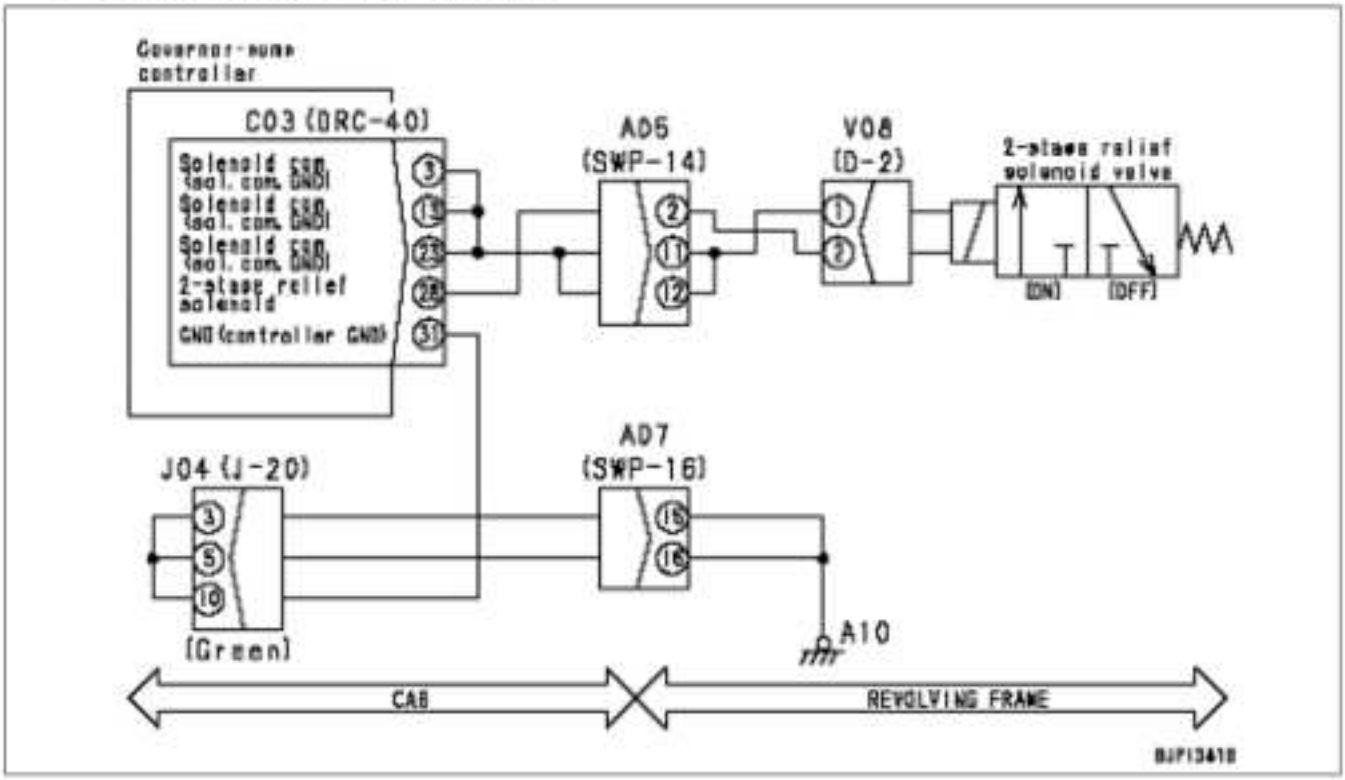
a. Port **PB** (from control valve)
b. Port **PA** (from control valve)
c. Port **T** (to tank)
d. Port **P** (from travel speed solenoid valve)

SPECIFICATIONS		
Type		HMV280ADT
Theoretical Delivery	Min.	158 cc/rpm
	Max.	270 cc/rpm
Set pressure		34.8 MPa {355 kg/cm²}
Rated speed	Min. capacity	1,137 rpm
	Max. capacity	1,943 rpm
Brake releasing pressure		1.3 ± 0.4 MPa {13 ± 4 kg/cm²}
Travel speed switching pressure	Differential pressure	$0.8\ ^{+0.4}_{-0.1}$ MPa $\{8\ ^{+0.4}_{-0.}$ kg/cm²}

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ELECTRICAL CIRCUIT DIAGRAM FOR 2-STAGE RELIEF SOLENOID

★ PC300HD-7L Serial No. A85049 and UP
★ PC300LC-7L Serial No. A86675 and UP



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WORK EQUIPMENT HAS EXCESSIVE LAG TIME

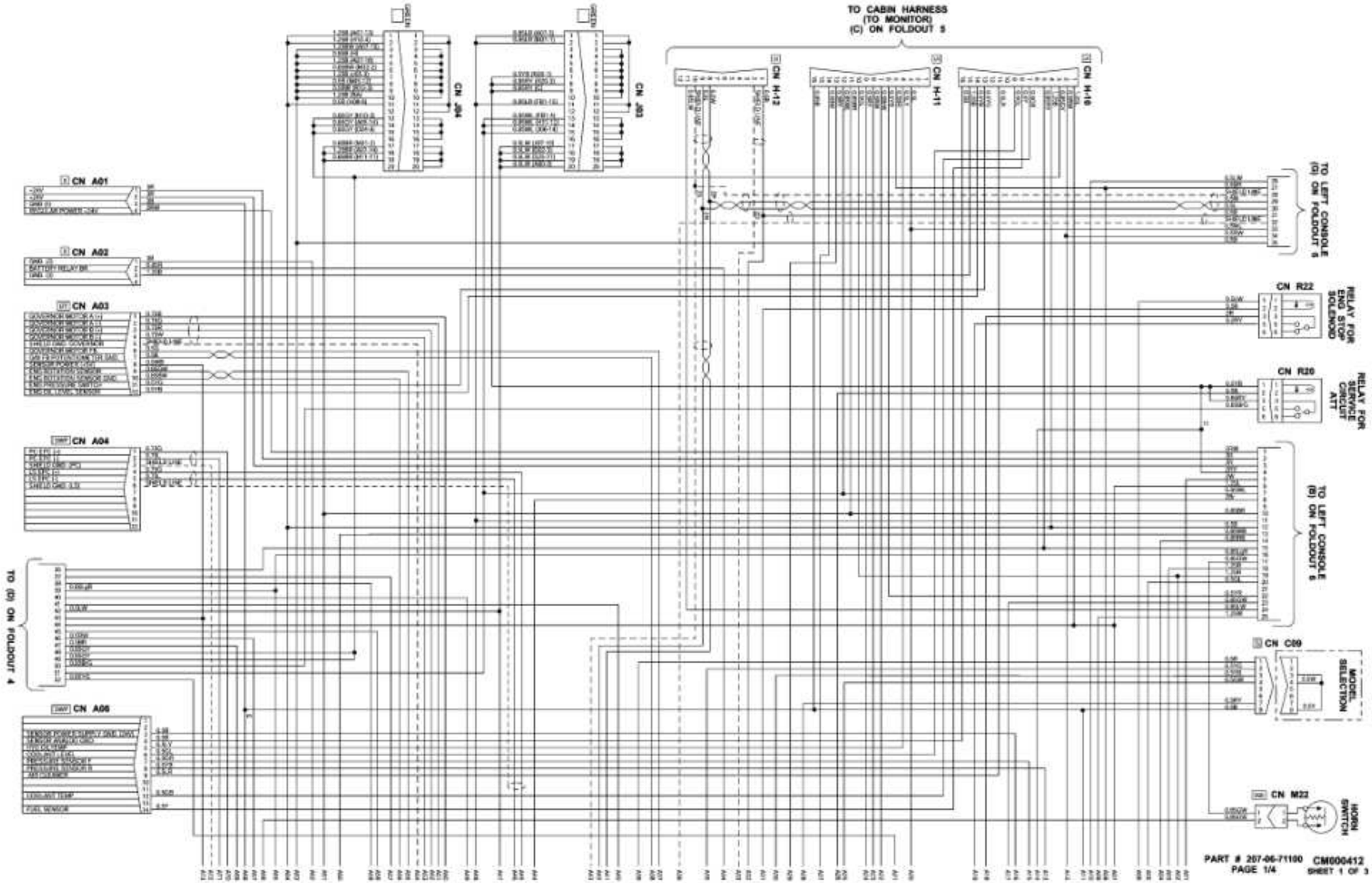
Failure information	• The work equipment has a big time lag.
Relative information	• Set the working mode at A mode for the troubleshooting.

<table>
<tr><th rowspan="2">Presumed cause and standard value</th><th colspan="2" rowspan="2">Cause</th><th colspan="3">Standard value and references for troubleshooting</th></tr>
<tr><td colspan="3">★ Stop engine for preparations. Start troubleshooting at engine high idle.</td></tr>
<tr><td rowspan="4">1</td><td rowspan="4">Malfunctioning of LS-EPC valve</td><td>Travel speed</td><td>Travel control lever</td><td>LS-EPC valve output pressure</td></tr>
<tr><td>Lo</td><td>NEUTRAL</td><td>Approximately 14 kgf/cm^2 (Approximately 199 lbf/in^2)</td></tr>
<tr><td>Hi</td><td>Operation</td><td>0(0)</td></tr>
<tr><td colspan="3"></td></tr>
<tr><td>2</td><td>Malfunctioning of control valve (regeneration valve) - with boom and arm only</td><td colspan="3">The regeneration valve in the control valve is presumed to malfunction. Check the valve itself.</td></tr>
<tr><td>3</td><td>Malfunctioning of control valves (safety & suction valve)</td><td colspan="3">The safety and suction valves of the control valve are presumed to malfunction. Check those valves themselves directly.
★ For the arm and boom, whether they are defective or not may well be determined by changing them for other safety and suction valves. (Do not attempt to change them for the safety and suction valves for the boom LOWER and the lock valve, because each set pressure differs)</td></tr>
<tr><td>4</td><td>Malfunctioning of control valve (pressure compensation valve)</td><td colspan="3">The pressure compensation valve of the control valve is presumed to malfunction. Check the valve itself directly.</td></tr>
</table>

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ELECTRICAL (PC300HD-7L SERIAL NO. A85001 THROUGH A85047 AND PC300LC-7L SERIAL NO. A85001 THROUGH A86673)

ELECTRICAL DIAGRAM 1/4 (SHEET 1 OF 3) FOLDOUT 1



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