CEBMW25050

SHOP MANUAL

KOMATSU®

WA500-1LC

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA500-1LC	A60001 and up

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

AUG 93

Copyright 1993 Komatsu Dresser Company

MidWestTech | Komatsu WA500-1LC Wheel Loader Service Manual | Publication CEBMW25050

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

PRODUCT PUBLICATIONS INFORMATION

VARIOUS PRODUCT PARTS & SERVICE PUBLICATIONS ARE AVAILABLE TO ALL **KOMATSU** CONSTRUCTION EQUIPMENT OWNERS, INCLUDING OPERATION & MAINTENANCE MANUALS, PARTS BOOKS AND SHOP MANUALS.

SPECIAL PUBLICATIONS SUCH AS SERVICE TOOL, AIR CONDITIONING, AND TURBOCHARGER SHOP MANUALS ARE ALSO AVAILABLE AS WELL AS SELECTED OPERATION & MAINTENANCE AND SHOP MANUALS IN FOREIGN LANGUAGES.

THE PUBLICATIONS LISTED BELOW ARE AVAILABLE FOR THIS PARTICULAR MACHINE(S).

DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Engine and Chassis	BEPBW25050
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPMW25050
OPERATION & MAINTENANCE MANUAL:	
Chassis	CEAMW25050
SHOP MANUAL:	
Chassis	CEBMW25050
Engine:	
Service Manual	3379076
Trouble Shooting & Repair	3810298
SAFETY MANUAL	1085 883 R3

PARTS AND SERVICE PUBLICATIONS CAN *ONLY* BE ACQUIRED BY AUTHORIZED KOMATSU DISTRIBUTORS, USING THE KDC PARTS INVENTORY PROCESSING SYSTEM (PIPS).

IF THE PIPS SYSTEM IS NOT AVAILABLE AT THE DISTRIBUTOR LOCATION, THEN THE FOLLOWING REQUISITION FOR LITERATURE FORM CAN BE USED: FORM KDC-EPS-05, SHOWN ON THE REVERSE SIDE OF THIS PAGE.

MidWestTech | Komatsu WA500-1LC Wheel Loader Service Manual | Publication CEBMW2... Order the manual at mid-west-tech.com >

CONTENTS

No. of page

10 ENGINE

12 TESTING AND ADJUSTING 12-1
13 DISASSEMBLY AND ASSEMBLY 13-1

20 POWER TRAIN

21 STRUCTURE AND FUNCTION 21-1
22 TESTING AND ADJUSTING 22-1
23 DISASSEMBLY AND ASSEMBLY 23-1
24 MAINTENANCE STANDARD 24-1

40 STEERING SYSTEM

41 STRUCTURE AND FUNCTION 41-1
42 TESTING AND ADJUSTING 42-1
43 DISASSEMBLY AND ASSEMBLY 43-1
44 MAINTENANCE STANDARD 44-1

50 BRAKE AND AIR SYSTEM

51 STRUCTURE AND FUNCTION 51-1
52 TESTING AND ADJUSTING 52-1
53 DISASSEMBLY AND ASSEMBLY 53-1
54 MAINTENANCE STANDARD 54-1

60 WORK EQUIPMENT SYSTEM

61 STRUCTURE AND FUNCTION 61-1
62 TESTING AND ADJUSTING 62-1
63 DISASSEMBLY AND ASSEMBLY 63-1
64 MAINTENANCE STANDARD 64-1

80 ELECTRIC AND ELECTRONIC SYSTEM

81 STRUCTURE AND FUNCTION 81-1
82 TESTING AND ADJUSTING 82-1
83 DISASSEMBLY AND ASSEMBLY 83-1

90 OTHERS

91 STRUCTURE AND FUNCTION 91-1
93 DISASSEMBLY AND ASSEMBLY 93-1
97 GEAR PUMP 97-1
99 METRIC CONVERSION TABLE 99-1

MidWestTech | Komatsu WA500-1LC Wheel Loader Service Manual | Publication CEBMW2... Order the manual at mid-west-tech.com >

T-3. Excessive time lag when starting machine or shifting gear.

Checks before troubleshooting.

- Is oil level in transmission case correct?
- Is there any leakage of oil from joints of piping or valves?
- Is operation of control valve normal?

Checking for abnormalities.

- Check STANDARD VALUE TABLE to confirm that time lag is actually excessive.

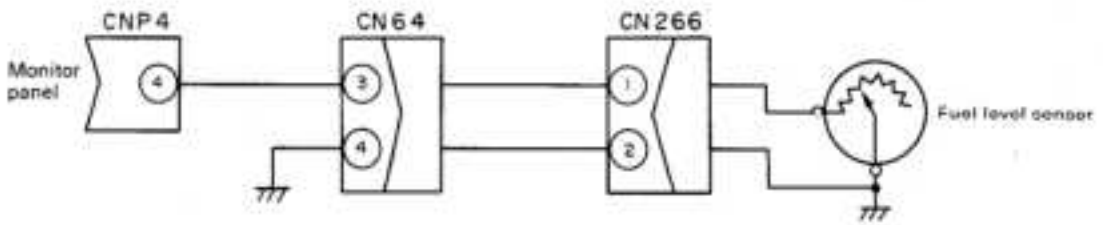
No.	Problems \ Causes / Remedy	a: Air leaking in at suction side of pump	b: Pump defective	c: Modulating valve spring deteriorated	d: Throttle hole of quick return valve clogged	e: Operation of quick return valve defective	f: Seal ring groove of transmission clutch defective	g: Rotating clutch defective	h: Shaft seal ring in rotating clutch circuit defective
		Δ	X	Δ X	Δ	Δ X	X	X	X
1	Abnormal noise from between pump and filter	○							
2	Excessive time lag in every speed range	○	○	○	○	○			
3	Machine moves normally in certain speed ranges						○	○	○
4	Transmission modulating pressure too low in every speed range	○	○	○	○				
5	As in item 4, indicator fluctuates violently	○							
6	Torque converter oil temperature is above operating range	○	○						

The following symbols are used to indicate the action to be taken when a cause of failure is located:

X: Replace Δ: Repair
A: Adjust C: Clean

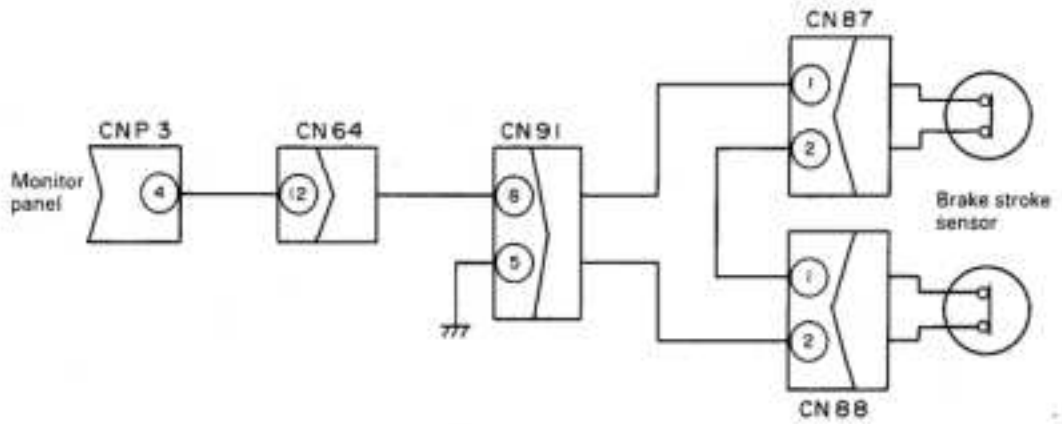
MidWestTech | Komatsu WA500-1LC Wheel Loader Service Manual | Publication CEBMW2... Order the manual at mid-west-tech.com >

M-6 Related electrical circuit drawing



425F516

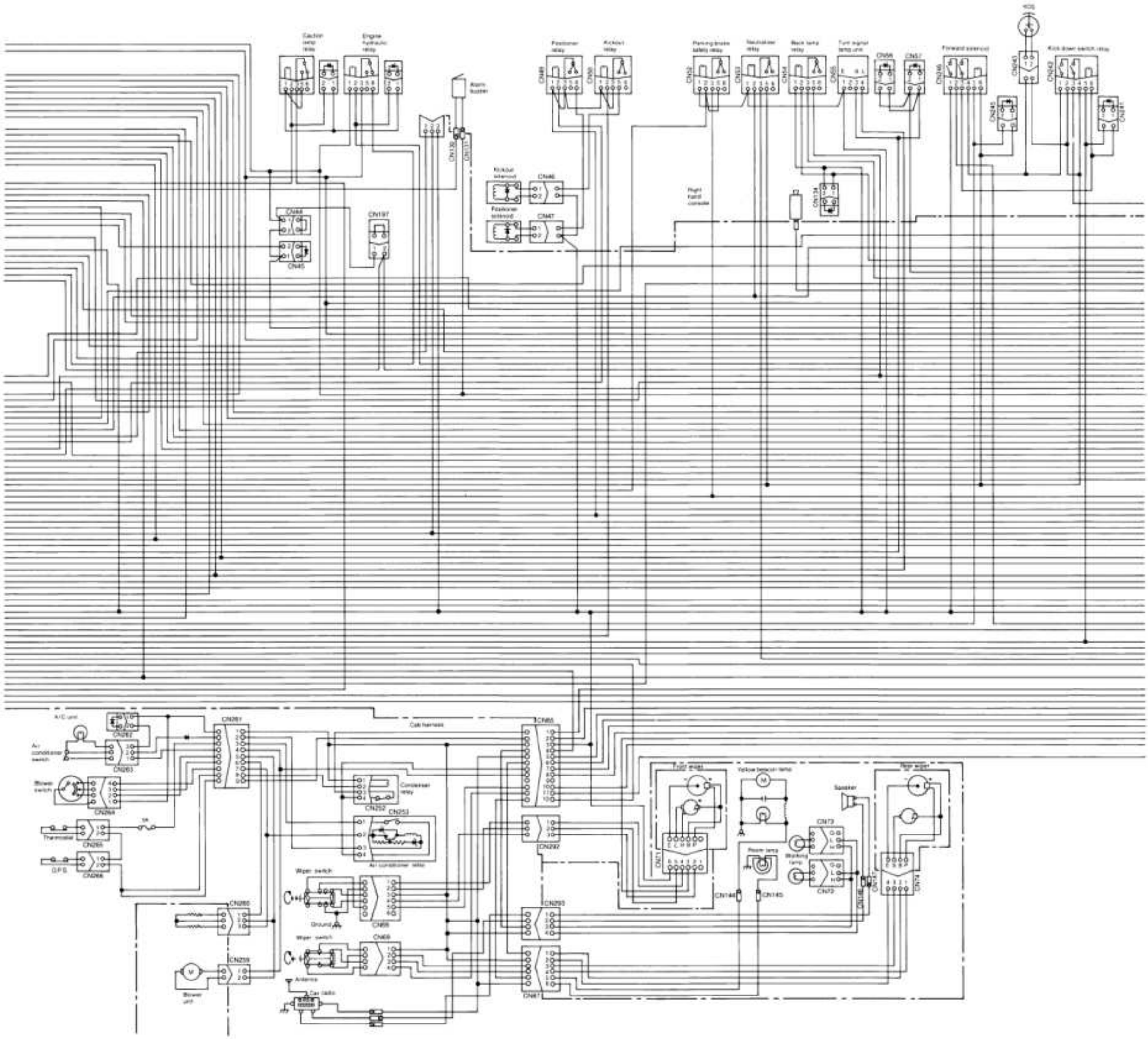
M-7 Related electrical circuit drawing



425F517

MidWestTech | Komatsu WA500-1LC Wheel Loader Service Manual | Publication CEBMW2... Order the manual at mid-west-tech.com >

FOLDOUT NO. 2 (See Foldout 1, 3 & 4)
ELECTRICAL CIRCUIT DIAGRAM (2 of 4)



L08DD102

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