CEBMW17020

SHOP MANUAL

KOMATSU®

WA180-1LC

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA180-1LC	75001 and up

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.

MAR 92

MidWestTech | Komatsu WA180-1LC Wheel Loader Service Manual | Publication CEBMW17020

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	BEPBW17021
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPMW17021
OPERATION & MAINTENANCE MANUAL:	
Chassis	SEAMU417KD10
SHOP MANUAL:	
Chassis	CEBMW17020
Engine:	
Shop Manual	CEBM610SM0
Alternative Repair Manual	CEBM610AR0
SAFETY MANUAL	1085 883 R3

PARTS AND SERVICE PUBLICATIONS CAN *ONLY* BE ACQUIRED BY AN AUTHORIZED KOMATSU DISTRIBUTOR, USING THE "REQUEST FOR LITERATURE" FORM KDC-EPS-05 SHOWN ON THE REVERSE SIDE OF THIS PAGE.

PLEASE TEAR OUT THIS PAGE AND FILL IN *ALL* THE INFORMATION REQUESTED ON THE ORDER FORM!

MidWestTech | Komatsu WA180-1LC Wheel Loader Service Manual | Publication CEBMW1... Order the manual at mid-west-tech.com >

CONTENTS

No. of page

10 ENGINE

11 STRUCTURE AND FUNCTION 11-1
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 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
83 DISASSEMBLY AND ASSEMBLY 83-1

90 MISCELLANEOUS

91 CAB AND AIR CONDITIONER STRUCTURE AND FUNCTION 91-1
97 GEAR PUMP 97-1
99 METRIC CONVERSIONS 99-1

MidWestTech | Komatsu WA180-1LC Wheel Loader Service Manual | Publication CEBMW1... Order the manual at mid-west-tech.com >

5. **Carry out troubleshooting using the troubleshooting charts.**
   There are the following two types of troubleshooting charts.
   1. TROUBLESHOOTING TABLE.....
      22 POWER TRAIN
      42 STEERING SYSTEM
      52 BRAKE SYSTEM
      62 WORK EQUIPMENT SYSTEM
   2. TROUBLESHOOTING FLOW CHART.....
      The troubleshooting flow charts consist of:
      1) Items which can be checked easily.
      2) Items which are likely to be the cause of such failures.
      Follow these charts to carry out troubleshooting.
      At the same time, do not forget the following points.
      - Check related items.
      - Check that there are no other failures or breakdowns.

   ★ For details of the troubleshooting tables, see the following pages.

6. **Investigate causes of breakdown.**
   - Even if the breakdown is repaired, if the original cause of the problem is not removed, the same breakdown will occur again. To investigate and remove the original cause, see " Actions to take to prevent failures from occurring again".

3. PRECAUTIONS WHEN REMOVING, INSTALLING, DISASSEMBLING OR ASSEMBLING PARTS DURING TROUBLESHOOTING

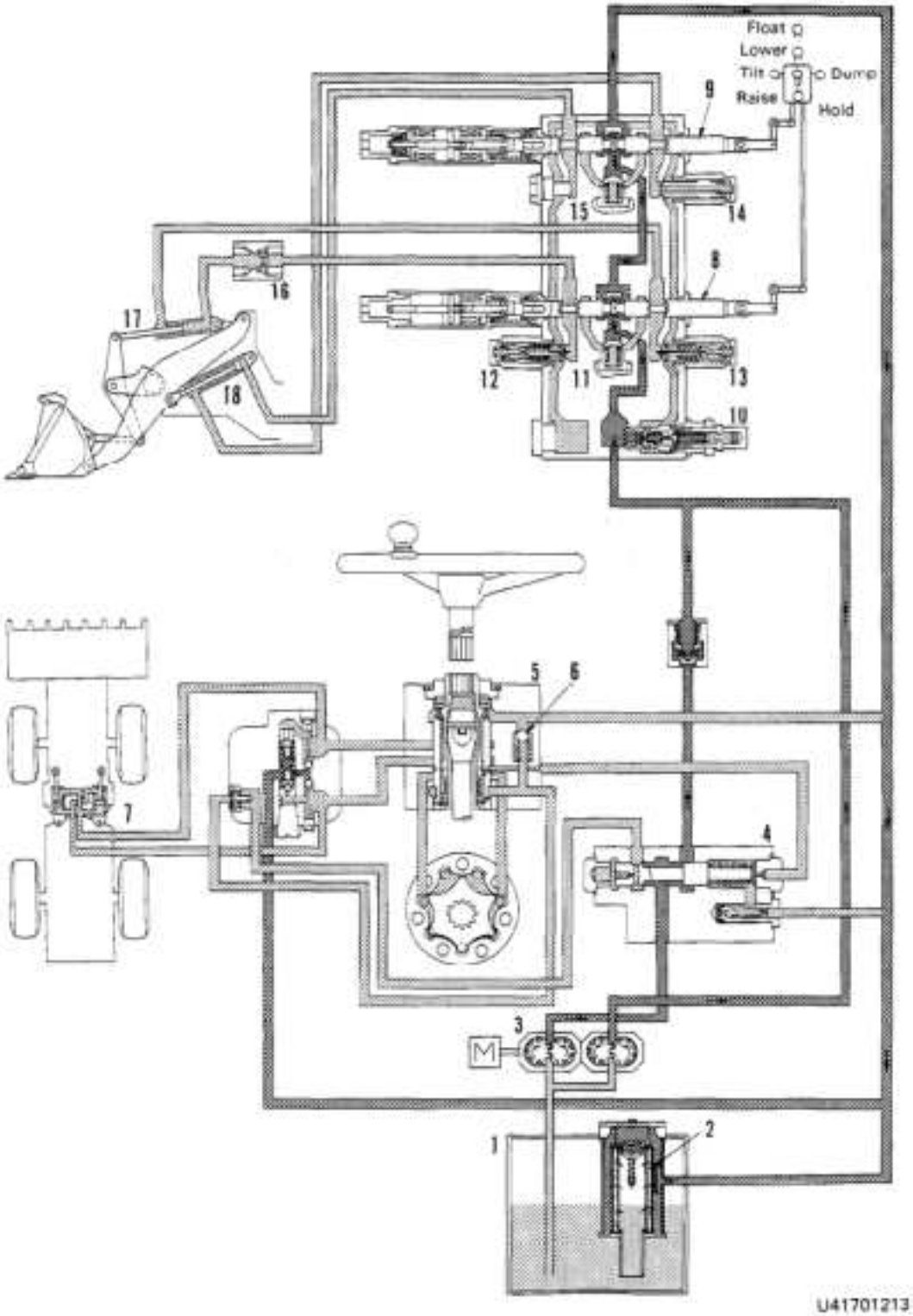
If it is necessary to remove, install, disassemble or assemble parts for troubleshooting, remember the following points.

- Carry out the various testing and adjusting while observing the items on quality control given in "Testing and Adjusting".
- When removing parts, check their condition of mounting and distinguish between front and rear, left and right and top and bottom.
- Check the match marks or make match marks to prevent mistakes when installing.
- If a part can not be removed even when the mounting hardware has been removed, do not use excessive force to remove it. Check the part to see if there is any problem with it and correct the problem before trying to disassemble the part.
- When installing or assembling, clean off dust and dirt and repair any scratches or dents. Remove all grease and/or oil before coating with gasket sealant.

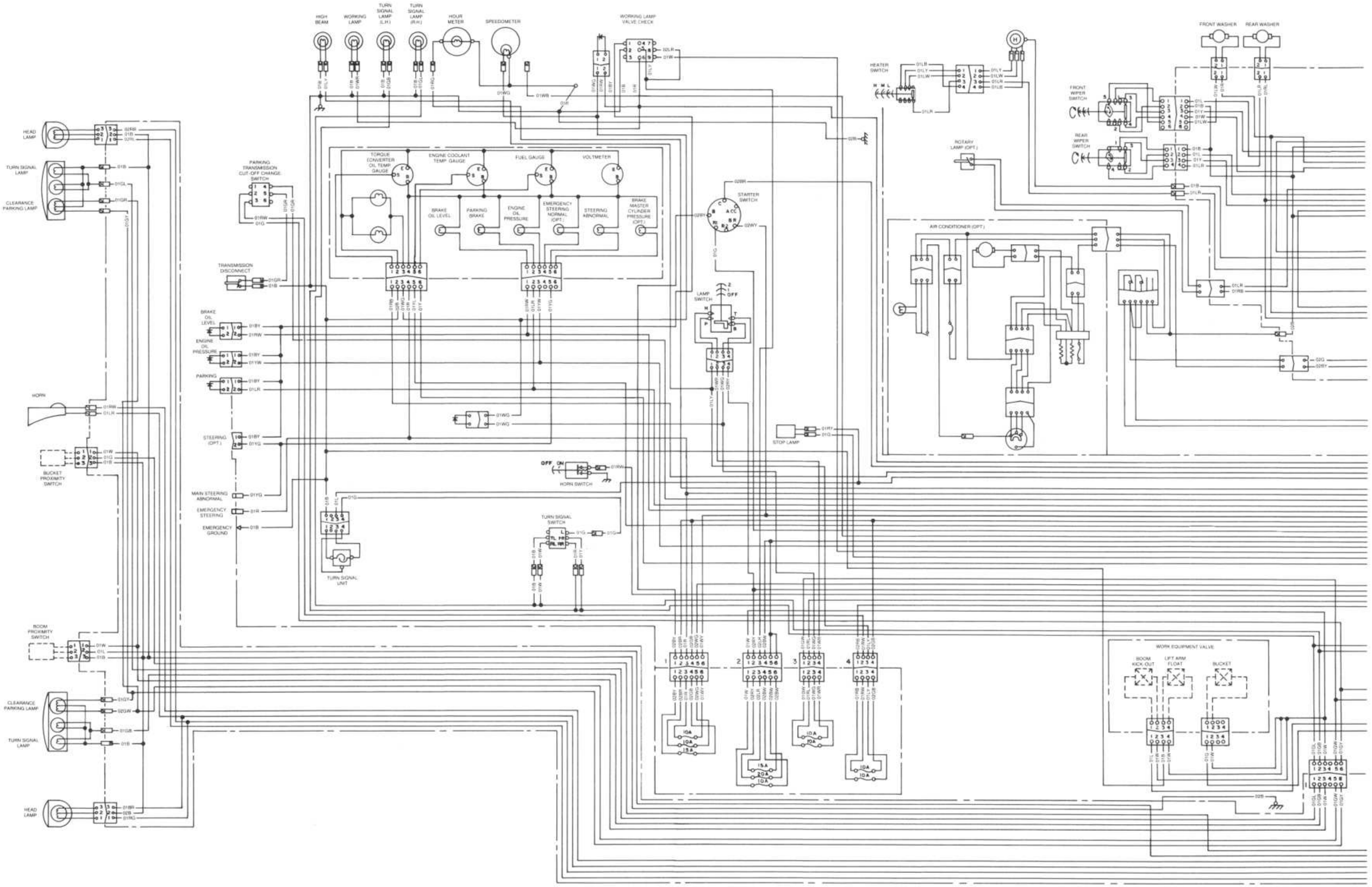
MidWestTech | Komatsu WA180-1LC Wheel Loader Service Manual | Publication CEBMW1... Order the manual at mid-west-tech.com >

HYDRAULIC CIRCUIT

Engine running, hydraulic control lever in 'HOLD'



MidWestTech | Komatsu WA180-1LC Wheel Loader Service Manual | Publication CEBMW170... Order the manual at mid-west-tech.com >



SEE FOLDOUT NO. 3

L08DD097

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