CEBMW16040

SHOP MANUAL

KOMATSU®

WA120-1LC

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA120-1LC	20001 and up

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

DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Engine and Chassis	BEPBW16041
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPMW16041
OPERATION & MAINTENANCE MANUAL:	
Chassis	SEAMU416KD10
SHOP MANUAL:	
Chassis	CEBMW16040
Engine:	
Shop Manual	CEBM610SM0
Alternative Repair Manual	CEBM610AR0
SAFETY MANUAL	1085 8B3 R3

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METHOD OF READING TROUBLESHOOTING TABLE

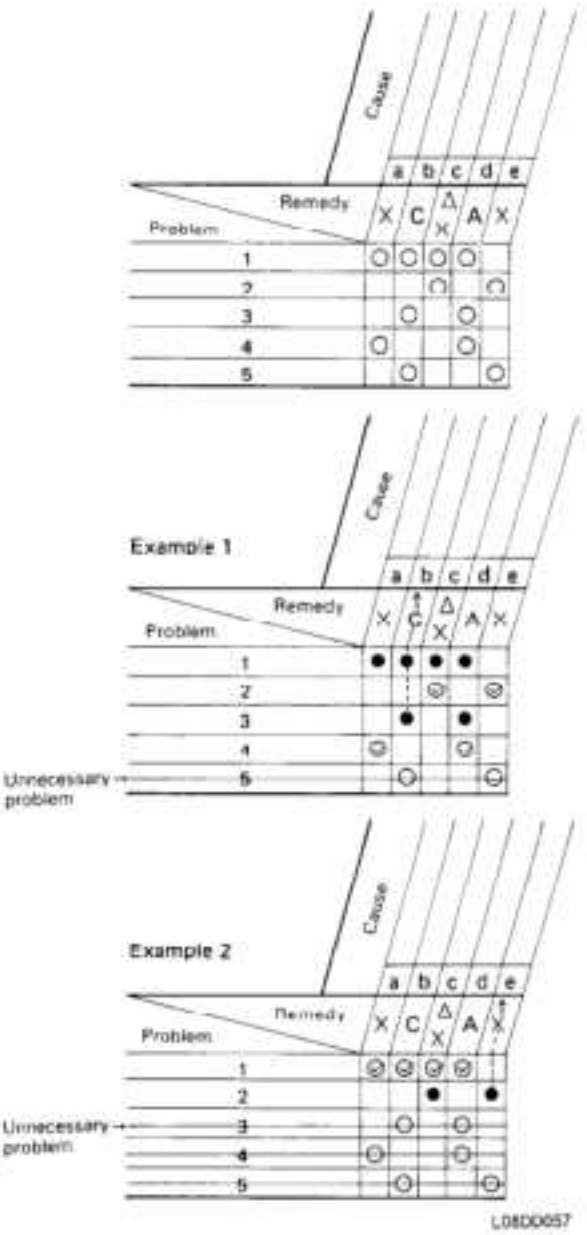
DESCRIPTION OF SYMBOLS USED IN TROUBLE-SHOOTING TABLE

The following symbols are used in the "Remedy" column to indicate the method of eliminating the cause of a fault.

X: Replace; Δ: Repair
A: Adjusting; C: Clean

METHOD OF READING TROUBLESHOOTING TABLE

- The symbol ○ in the table is inserted only for causes which can be diagnosed. If a cause cannot be diagnosed, the corresponding box is left blank.
- If the result of problem 1 using the troubleshooting table shown at right is abnormal, the cause of the trouble can be assumed to lie between "a" and "d". Because it is not possible to make a problem regarding "e", it is necessary to perform the next problem (owing to the possibility of a multiple fault). If the result of problem 1 is normal, the cause of the fault does not lie between "a" and "d". In such a case, before diagnosing the cause as "e", however, carry out a check by means of problem 2 or 5.
- If now the result of problem 1 is abnormal and the result of problem 2 normal, the cause is one of "a", "b" or "d". In addition, if the result of problem 3 is abnormal, the cause will be narrowed down to one of "b" or "d". To determine which of "b" or "d" is the actual cause, perform problem 4.
- If the result of problem is abnormal, blacken out the corresponding ○ in the table and then perform the next problem on these causes in order to narrow the likely causes.



Example 1:

Problem 1-Abnormal	From the table of example 1, the cause of the fault is "b".
Problem 2-Normal	
Problem 3-Abnormal	
Problem 4-Normal	

Example 2:

Problem 1-Normal	From the table of example 2, the cause of the fault is "e".
Problem 2-Abnormal	

★ In example 2, it is evident that the cause is "e" without carrying out problem 2, however problem 2 is performed by way of an additional check.

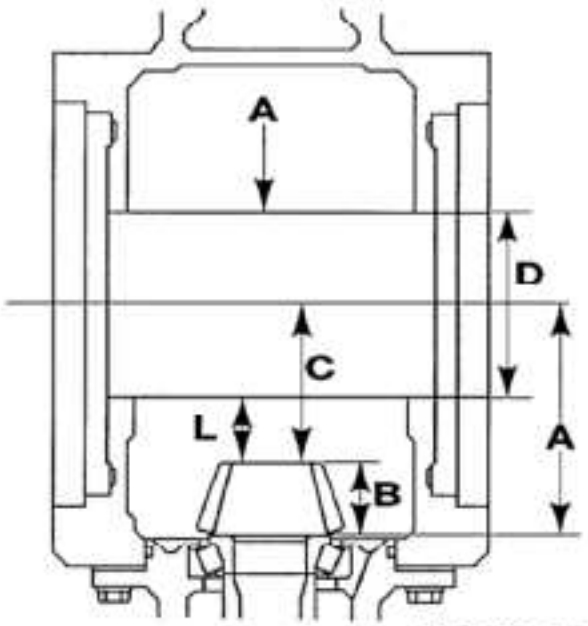
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3) Selecting shim
   t = C - (L + D/2)
   - t: Thickness of shim
   - C: (A + a) - (B + b)
   - L: Measured value
   - D: Diameter of tool A
   - A: 157.5
   - B: 50.68
   - a: Deviation from dimension A
   - b: Deviation from dimension B

   ★ Use measured value for distance A.
   ★ Shim thickness 't' should be within 0.5 - 1.9 mm.
   The end face of the pinion gear is marked with an electric pen as follows.

   Example:
   MD Combination No. for bevel pinion gear and bevel gear
   +0.10 Distance "a" (mm)
   (-0.01) Distance "b" (mm)

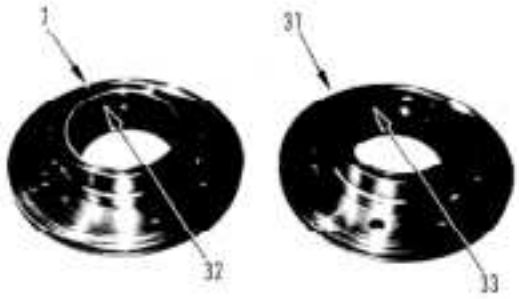
4) Remove cage.



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5. Bearing carrier
Press fit bearing cups (32 and 33) in bearing carriers (7 and 31).

Press fitting portion of bearing cup: Oil (axle oil)



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6. Adjusting bearing carrier shims
1) Raise differential carrier assembly (9), set in mounting position, then install left and right bearing carriers (7) temporarily.
   ★ Assemble the differential carrier assembly with the bevel gear on the right as seen from the cage mount.
   ★ Assemble the bearing carrier and adjust without the angle ring and shim.

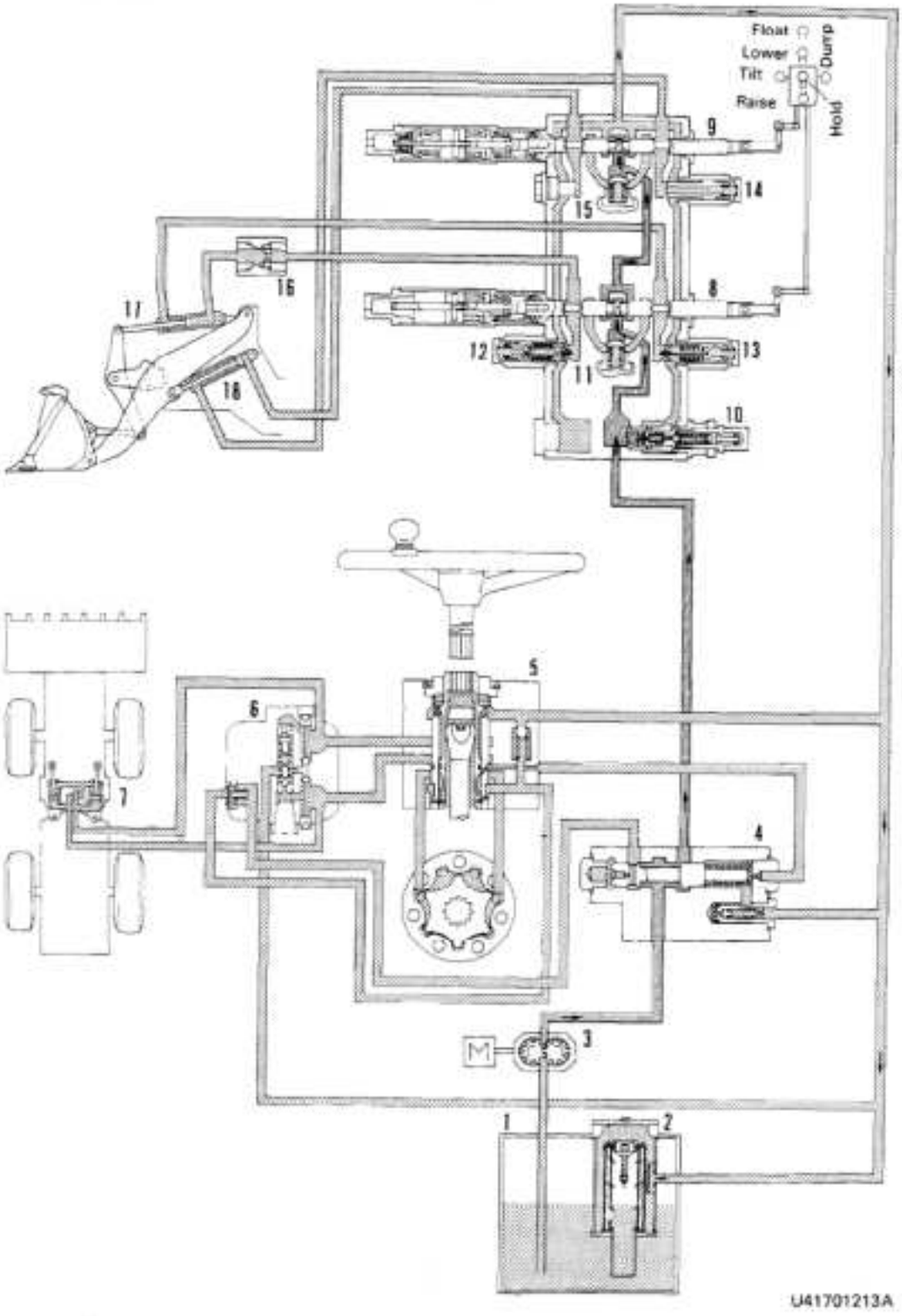


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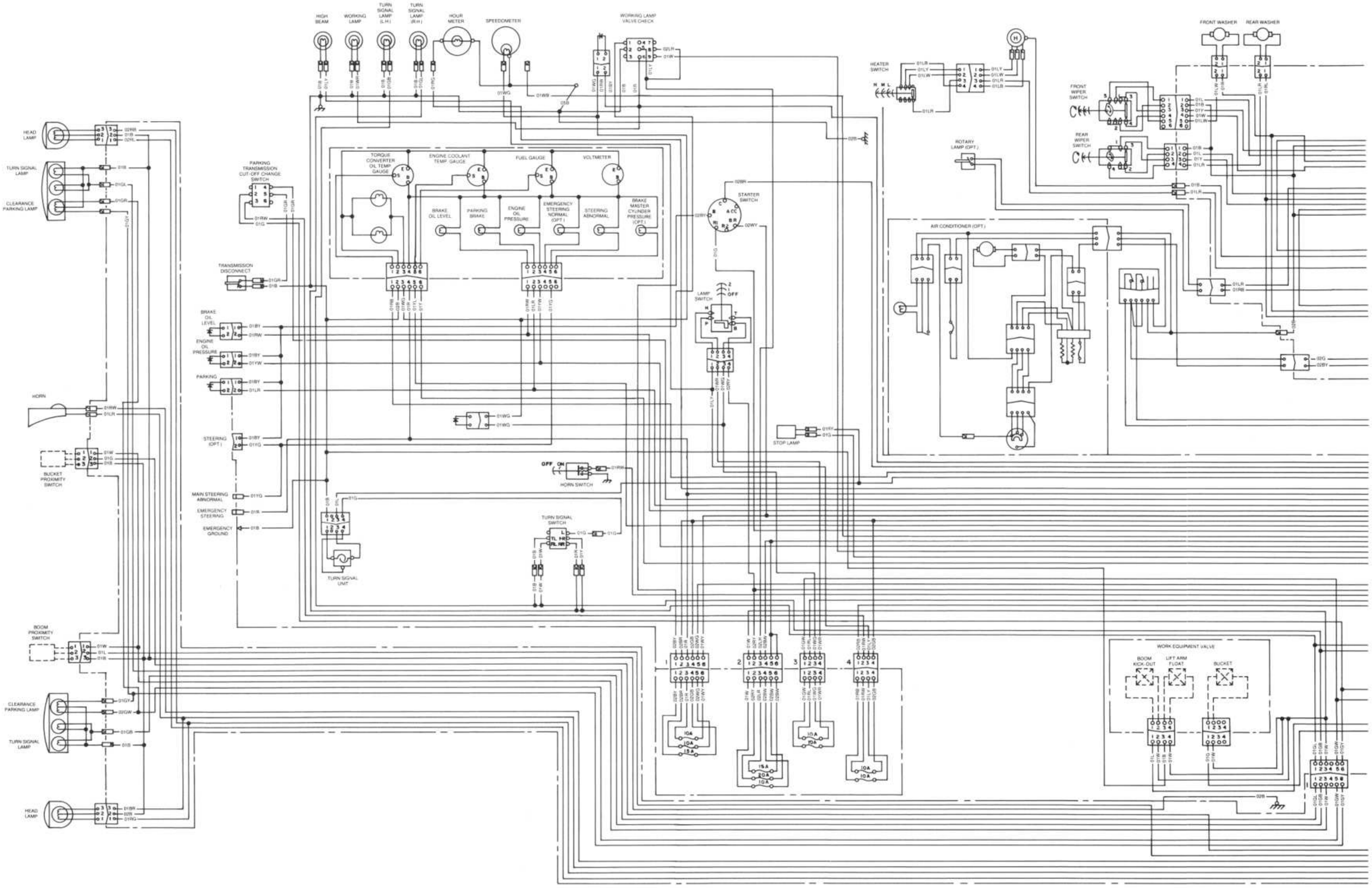
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HYDRAULIC CIRCUIT

Engine running, hydraulic control lever in "HOLD"



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SEE FOLDOUT NO. 3

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