SEBM04230107

SHOP MANUAL

KOMATSU®

WA350-1

MACHINE MODEL SERIAL No.

WA350-1 10001 and up

- **This shop manual may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require.**
  Materials and specifications are subject to change without notice.

- **WA350-1 mount the S6D110-1 engine.**
  For details of the engine, see the 110 Series Engine Shop Manual.

05-90(03)03561

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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 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

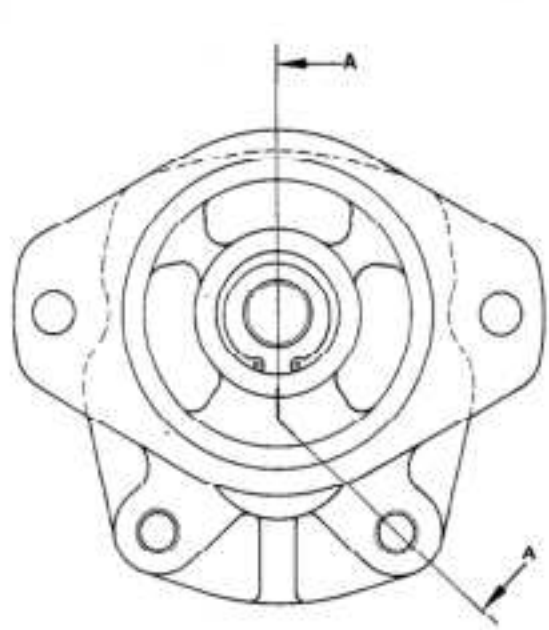
81 STRUCTURE AND FUNCTION 81-1
82 TESTING AND ADJUSTING 82-1
83 DISASSEMBLY AND ASSEMBLY 83-1

90 OTHERS

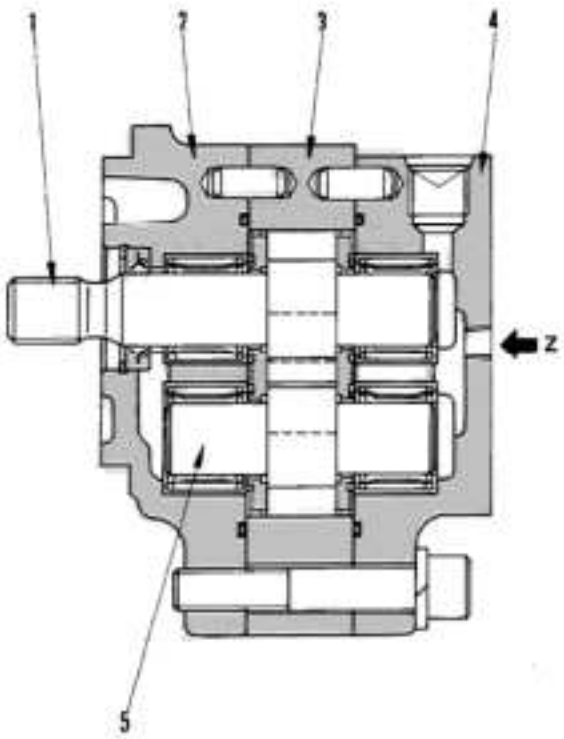
91 STRUCTURE AND FUNCTION 91-1
93 DISASSEMBLY AND ASSEMBLY 93-1
97 GEAR PUMP 97-1

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EMERGENCY STEERING PUMP (If equipped)



View Z



Section A-A

419F479

1. Drive gear (Teeth 12)
2. Front cover
3. Gear case
4. Rear cover
5. Driven gear (Teeth 12)

Specifications

- Model: SAM(2)-040
- Direction of revolution: Possible to rotate both direction
- Theoretical delivery: 50.8 cc/rev.
- Max. delivery pressure: 210 kg/cm²

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9. Bucket moves slowly or has insufficient tilt back power.

Checks before troubleshooting

- Is the oil quantity in the hydraulic tank and the type of oil satisfactory?
- Is the stroke of the bucket control lever and the main control valve spool correct?
- Seizure of bushing in bucket linkage. (Does emits unusual noise)

Fault checks

- Check the amount of deficient tilt back force by performing actual work.
- Measure the operating speed of the bucket and check it against the judgement criterion table to determine whether or not it is normal.

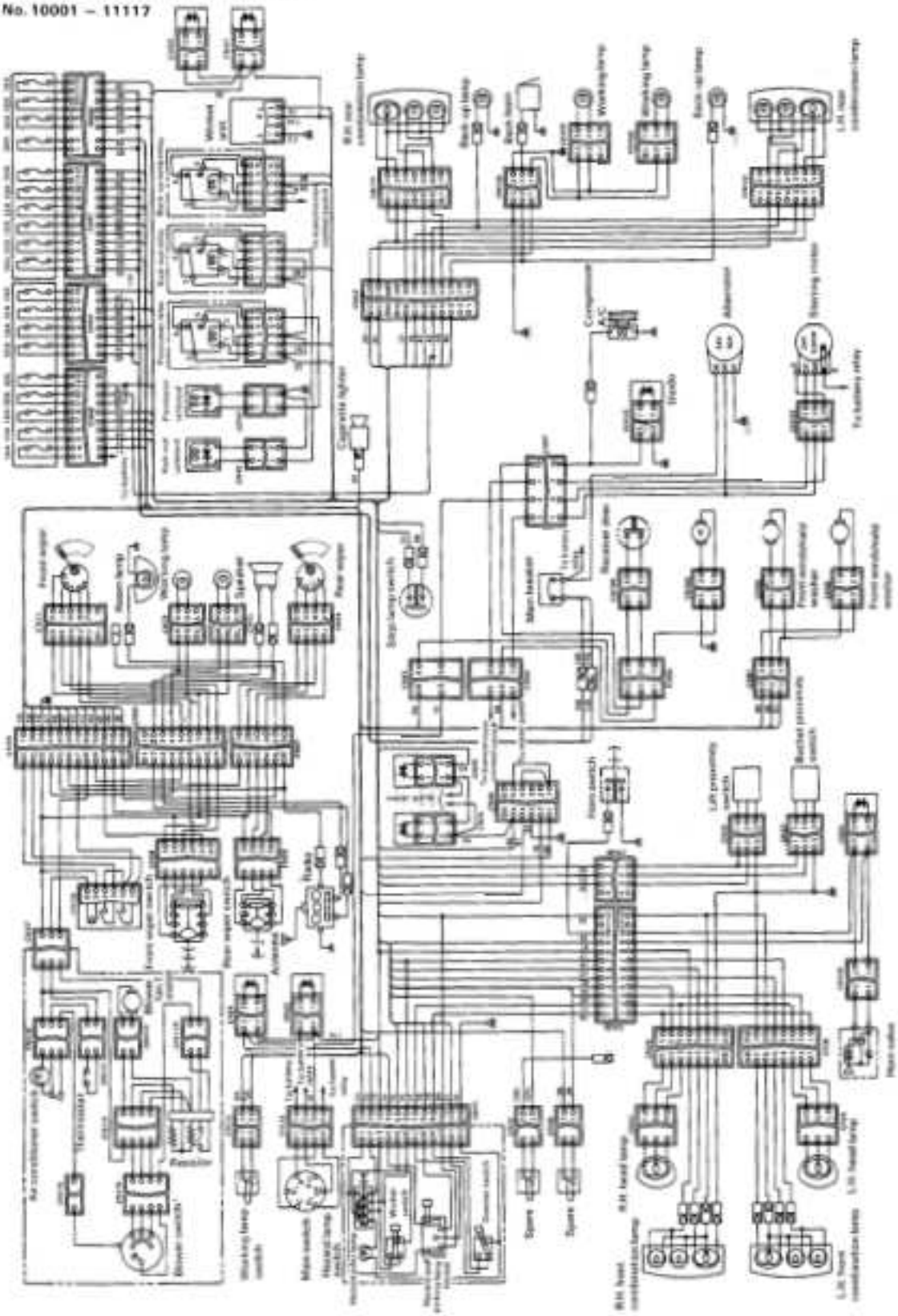
No.	Problems \ Causes / Remedy	Blockage in suction port of pump to excessive amount of air contained in oil	Faulty hydraulic pump	Faulty steering pump	Faulty demand spool	Faulty or incorrectly adjusted main relief valve	Faulty safety valve (with suction valve) on rod side of the ramp cylinder	Internally worn or damaged valve body (dump spool)	Damaged dump cylinder piston seal
		Tank to pump		Steering valve	Main control valve			Cylinder	
		a	b	c	d	e	f	g	h
		C Δ	Δ X	Δ X	Δ	A Δ X	Δ X	X	X
1	Lift arm lifting force and lifting speed are abnormal and also bucket tilt back force and tilt back speed are abnormal.	○	○	○	○	○			
2	Lift arm lifting force and lifting speed are normal but bucket tilt back force and tilt back speed are abnormal.						○	○	○
3	Phenomena of item 1 become particularly bad when the oil temperature increases.		○	○					
4	The hydraulic pump emits an unusual noise.	○	○						
5	Steering action is light and excessively fast when the engine is at full throttle.				○				
6	Steering action is heavy and slow when the engine is at full throttle.	○		○					
7	The dump cylinder has a large amount of hydraulic drift						○	○	○
8	The relief pressure of relief valve of main control valve is also low.					○	○	○	○
9	The discharge volume of the hydraulic pump is low.		○	○					

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

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6. ELECTRICAL CIRCUIT SYSTEM

Serial No. 10001 – 11117

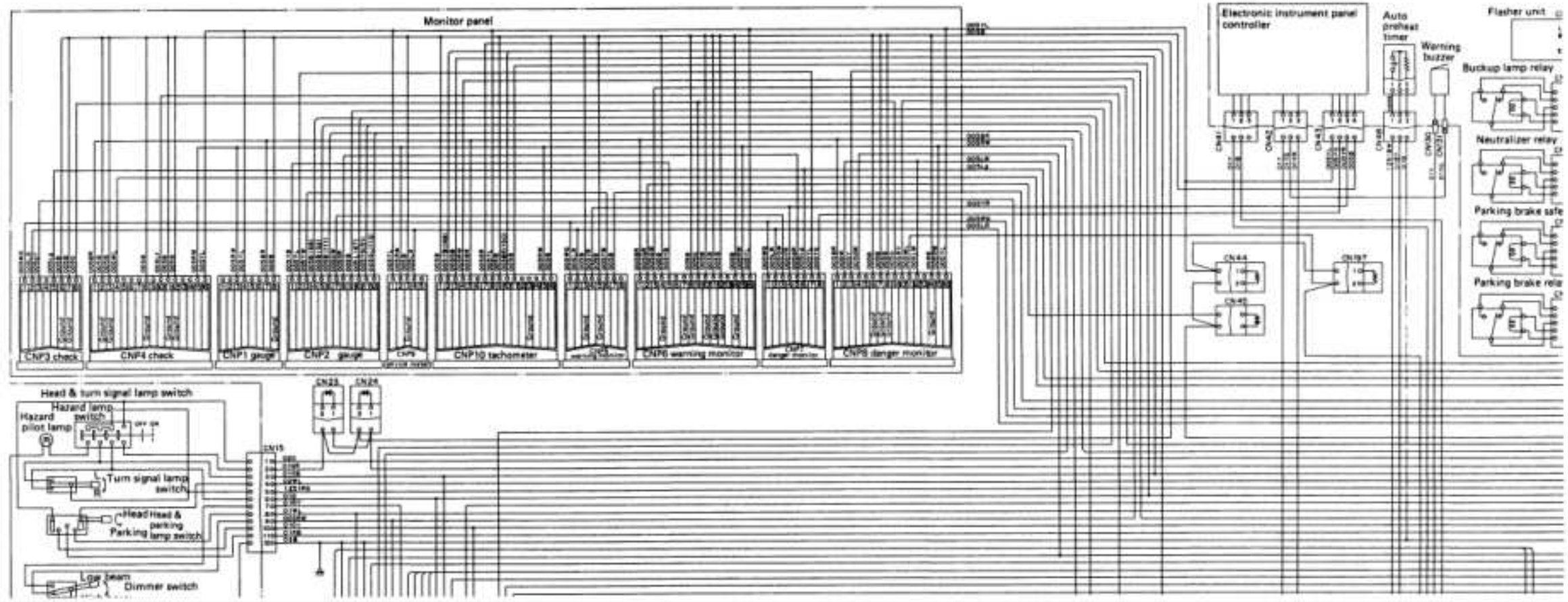


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ELECTRICAL WIRING DIAGRAM CIRCUIT

Serial No. 11118 and up



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