CEBMW25010

SHOP MANUAL

KOMATSU®

WA500-1L

WHEEL LOADER

MACHINE MODEL	SERIAL NUMBERS
WA500-1L	A20854 and up

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DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Engine and Chassis	BEPBW25010
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPMW25010
OPERATION & MAINTENANCE MANUAL:	
Chassis	CEAMW25010
SHOP MANUAL:	
Chassis	CEBMW25010
Engine	SEBE62120107
SAFETY MANUAL	1065 683 R3

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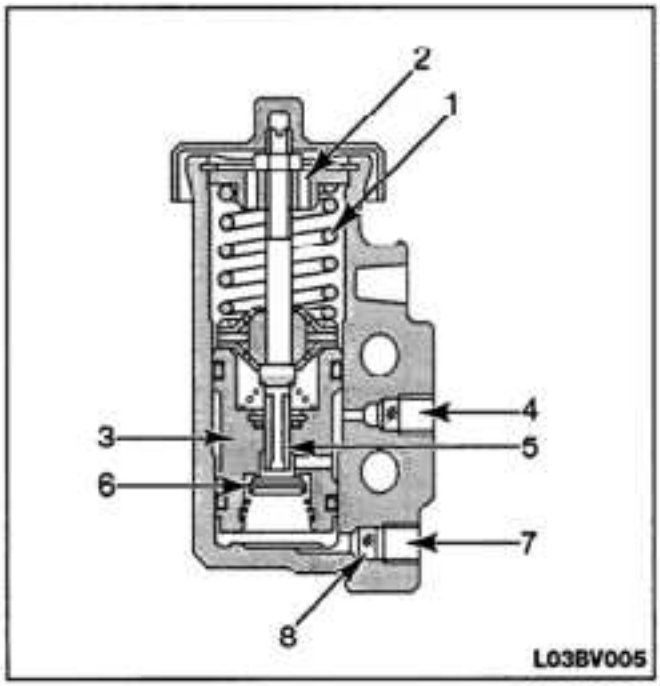
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AIR GOVERNOR



1. Spring
2. Exhaust port
3. Piston
4. Unloader port
5. Exhaust stem
6. Inlet valve
7. Tank port
8. Filter

Specifications

- Cut-out pressure: 8.4 ±0.35 kgm/cm²
- Cut-in pressure: 7.0 +0 / -0.35 kgm/cm²

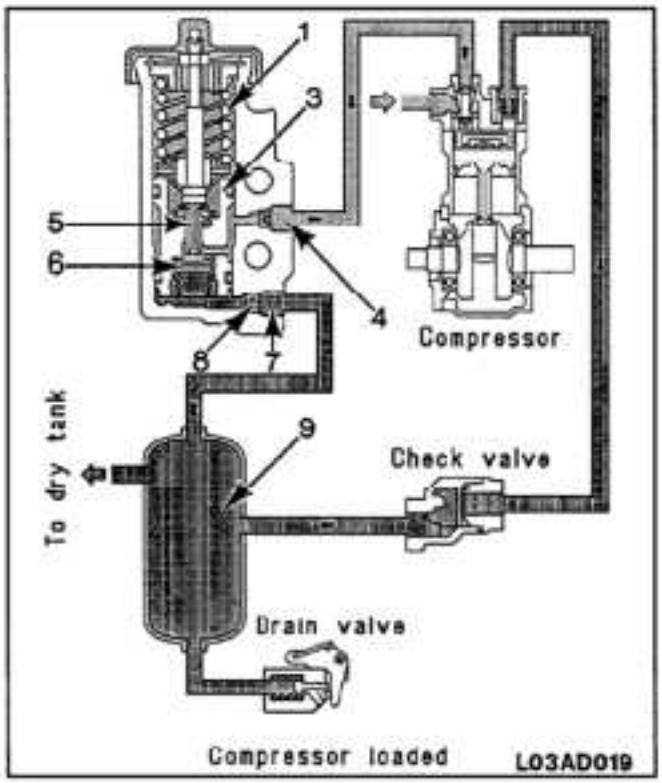
Function

- The air governor maintains the pressure in the air circuit to the specified range.

OPERATION

Compressor working

- The air pressure in the wet tank (9) passes from the tank port (7) through the filter (8) and acts on the bottom of the piston (3).
  When the air pressure in the tank (9) is below the specified pressure (cut-out pressure) the piston (3) is pushed down by the spring (1).
- When this happens, the air at the unloader port (4) passes through the exhaust stem (5) to the atmosphere and the compressor is actuated.



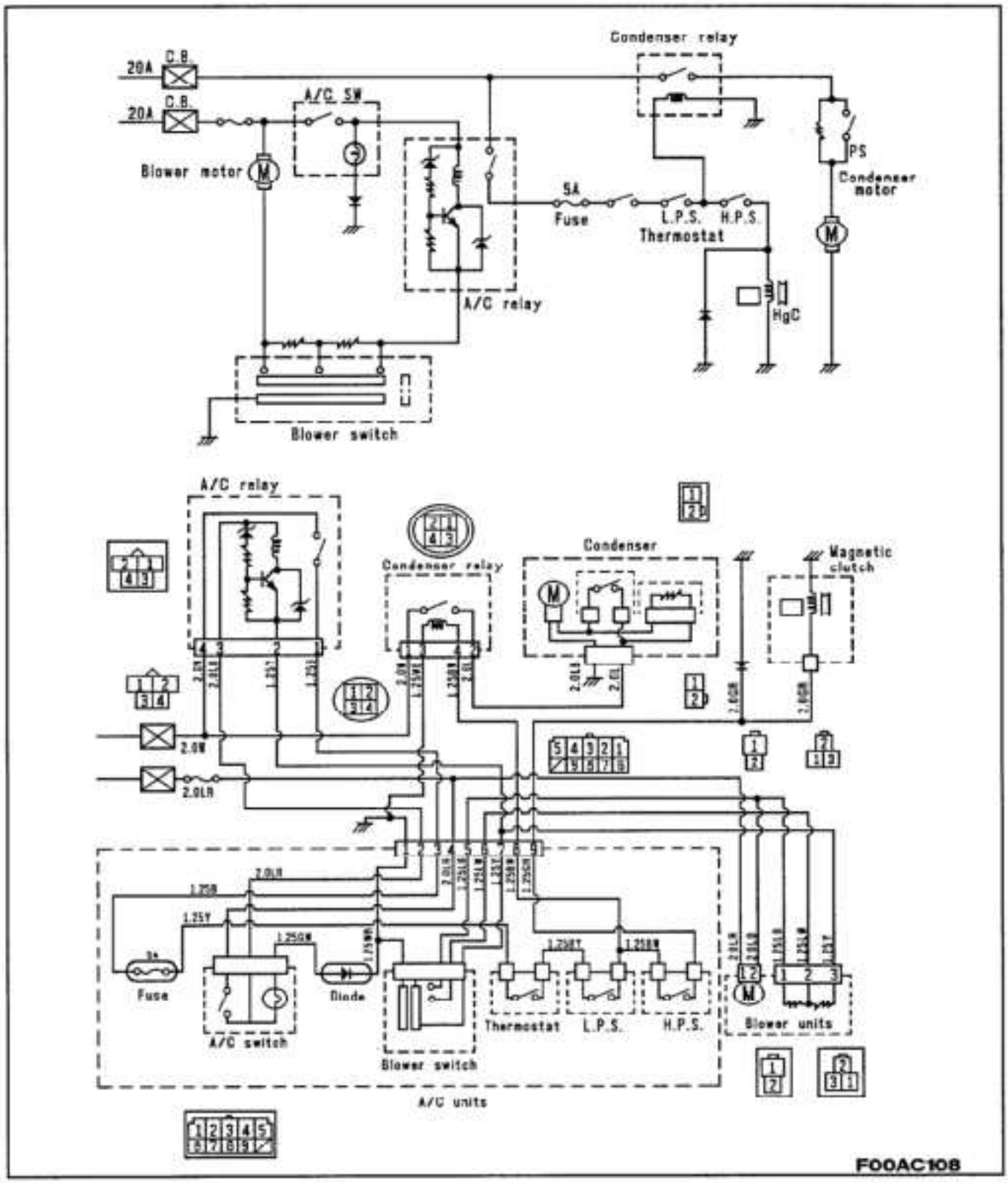
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CHECKS BEFORE TROUBLESHOOTING

xxxxxxxx	xxxxxxxxx	Item	Standard value	Remedy
Checks before starting	Lubricating oil, cooling water	1. Check fuel level	–	Add fuel
		2. Check for dirt or water in fuel	–	Clean, drain
		3. Check hydraulic oil level	–	Add oil
		4. Check hydraulic oil strainer	–	Clean, drain
		5. Check brake oil level	–	Add oil
		6. Check engine oil level	–	Add oil
		7. Check cooling water level	–	Add water
		8. Check condition of dust indicator	–	Clean or replace
		9. Check air pressure	–	Refer to troubleshooting
Item	Electrical Equipment	10. Check for loose or corroded battery terminals	–	Tighten or replace
		11. Check for loose or corroded alternator terminals	–	Tighten or replace
		12. Check for loose or corroded stating motor terminals	–	Tighten or replace
Other check items	Hydraulic mechanical components	13. Check for abnormal noise or smell	–	Repair
		14. Check for oil leakage	–	Repair
		15. Bleed air from system	–	Bleed air
	Electrical components	16. Check battery voltage (engine stopped)	23 - 26 V	Replace
		17. Check level of battery electrolyte	–	Add or replace
		18. Check for discolored, burnt, or bare wires	–	Replace
		19. Check for missing wiring clamps, hanging wires	–	Repair
		20. Checks for water leaking onto wiring (checks carefully water leakage at connectors and terminals)	–	Disconnect connector and dry connection
		21. Check for broken or corroded fuses	–	Replace
		22. Check alternator voltage (engine running at over half throttle)	27.5 - 29.5 V	Replace
		23. Noise when battery relay is operated (switch starting switch from on to off)	–	Replace

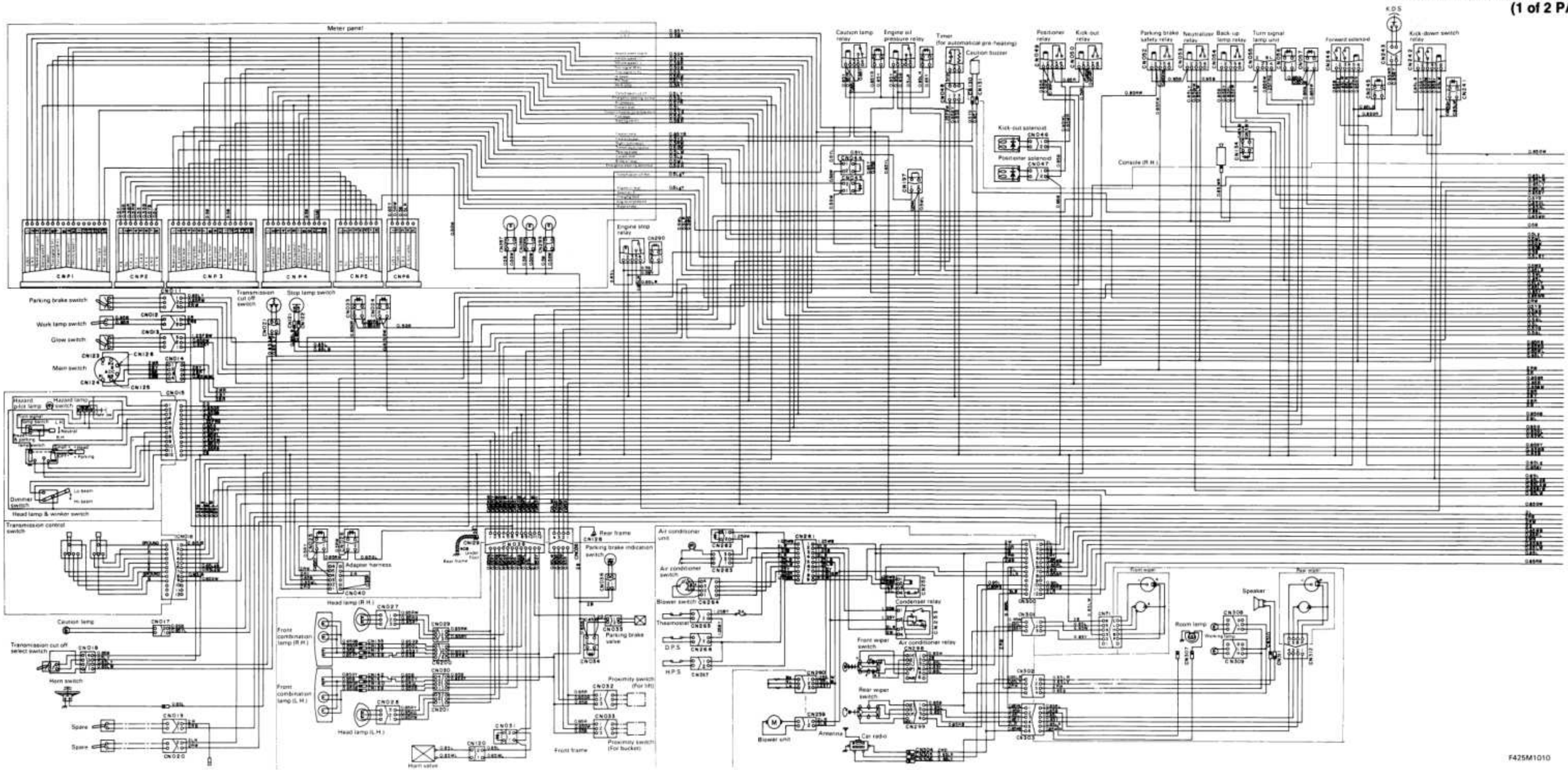
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ELECTRIC WIRING DIAGRAM



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FOLDOUT NO. 8
ELECTRICAL WIRING DIAGRAM
(1 of 2 PARTS)



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