SEBM04250107

SHOP MANUAL

KOMATSU®

WA500-1

MACHINE MODEL	SERIAL No.
WA500-1	**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.

- WA500-1 mount the S6D140-1 engine;
  For details of the engine, see the 6D140-1 Series Engine Shop Manual.

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WEIGHT TABLE

⚠ This weight table is a guide for use when transporting or handling components.

(Unit: kg)

Engine assembly	1453	Steering cylinder (1 piece)	47
Radiator assembly	285	Brake (1 piece)	170
Torque converter assembly	193	Hydraulic tank	156
Transmission assembly	980	Main control valve	90
Damper	91	Lift cylinder (1 piece)	279
Center drive shaft	33	Dump cylinder	283
Front drive shaft	44	Engine hood	43
Rear drive shaft	42	Front frame	2486
Front axle assembly	2028	Rear frame	2012
Rear axle assembly	1776	Bucket link (with bushing)	94
Front differential assembly	288	Tilt lever (with bushing)	457
Rear differential assembly	282	Lift arm (with bushing)	1996
Planetary carrier assembly (1 piece)	80	Bucket with teeth	2351
Planetary hub assembly (1 piece)	102	Counterweight	880
Axle pivot (Rear axle)	92 (119)	Fuel tank	328
Wheel (1 piece)	240	Battery (1 piece)	53
Tire (1 piece)	421	Operator's seat	40
Steering valve	55	Floor plate	131

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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 AND AIR SYSTEM,
      62 WORK EQUIPMENT SYSTEM
   2. TROUBLESHOOTING FLOW CHART . . . . . 82 ELECTRIC AND ELECTRONIC SYSTEM

   The troubleshooting 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.

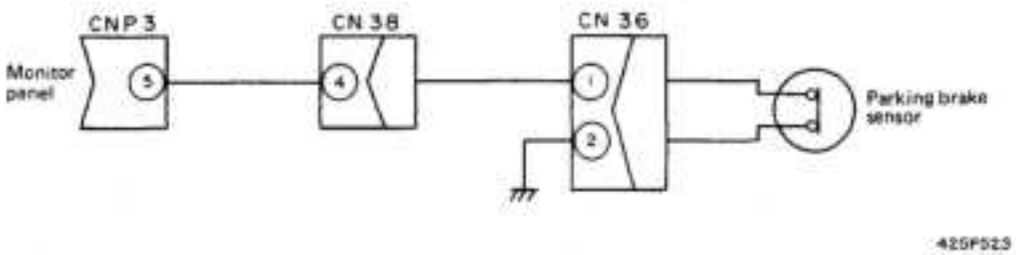
   ★ For details of troubleshooting tables, see page 22-14.
6. **Investigate causes of breakdown**
   - Even if the breakdown is repaired, if the original cause of the problem is not removed, the same breakdown will occur again. To investigate and remove the original cause, see "Actions to take to prevent 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 part cannot be removed even when the nuts and bolts have been removed, do not use excessive force to remove it. Check the part to see if there is any problem with it, and remove the problem before trying to disassemble the part.
- When installing or assembling, clean off all dust and dirt and repair any scratches or dents.
  Remove all grease or oil before coating with gasket sealant.

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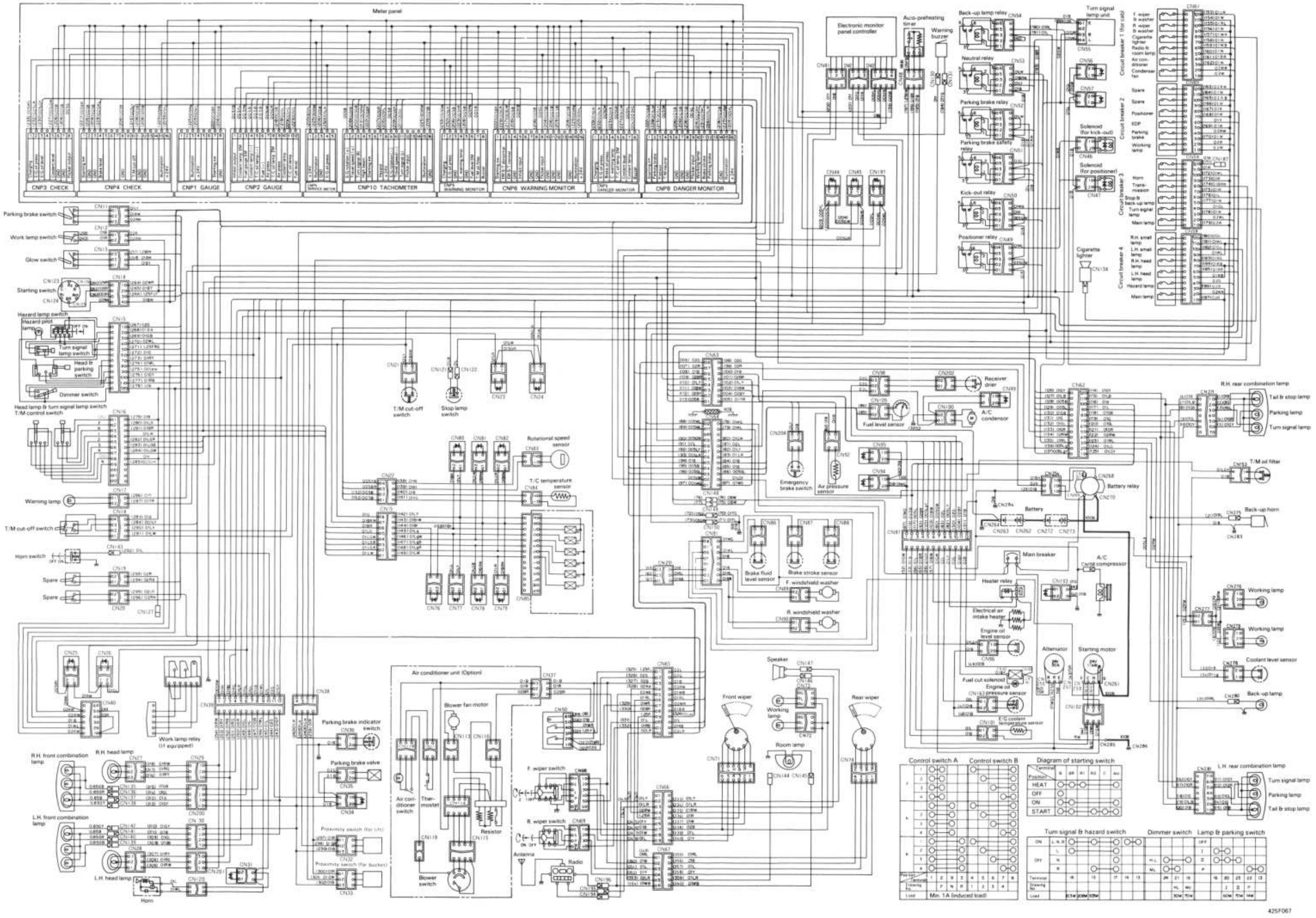
M-13 Related electrical circuit drawing



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ELECTRICAL WIRING DIAGRAM CIRCUIT

Serial No. 10001 – 10388



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