SEBM009805

SHOP MANUAL

KOMATSU®

PC128UU-1
PC128US-1

MACHINE MODEL	SERIAL NUMBER
PC128UU-1	**2347 and up**
PC128US-1	**1715 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.

- PC128UU-1, PC128US-1 mounts the S4D102E-1 engine.
  For details of the engine, see the 102 Series Engine Shop Manual.

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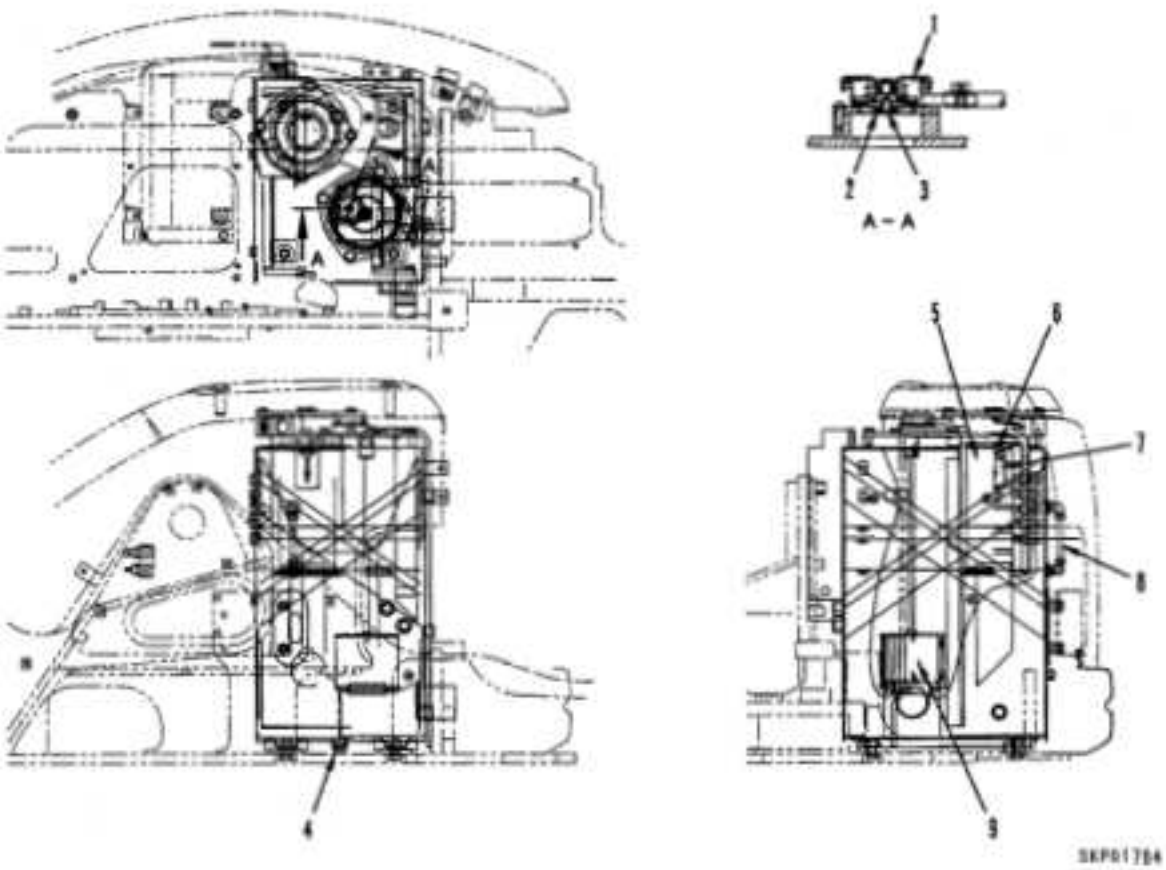
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HYDRAULIC TANK



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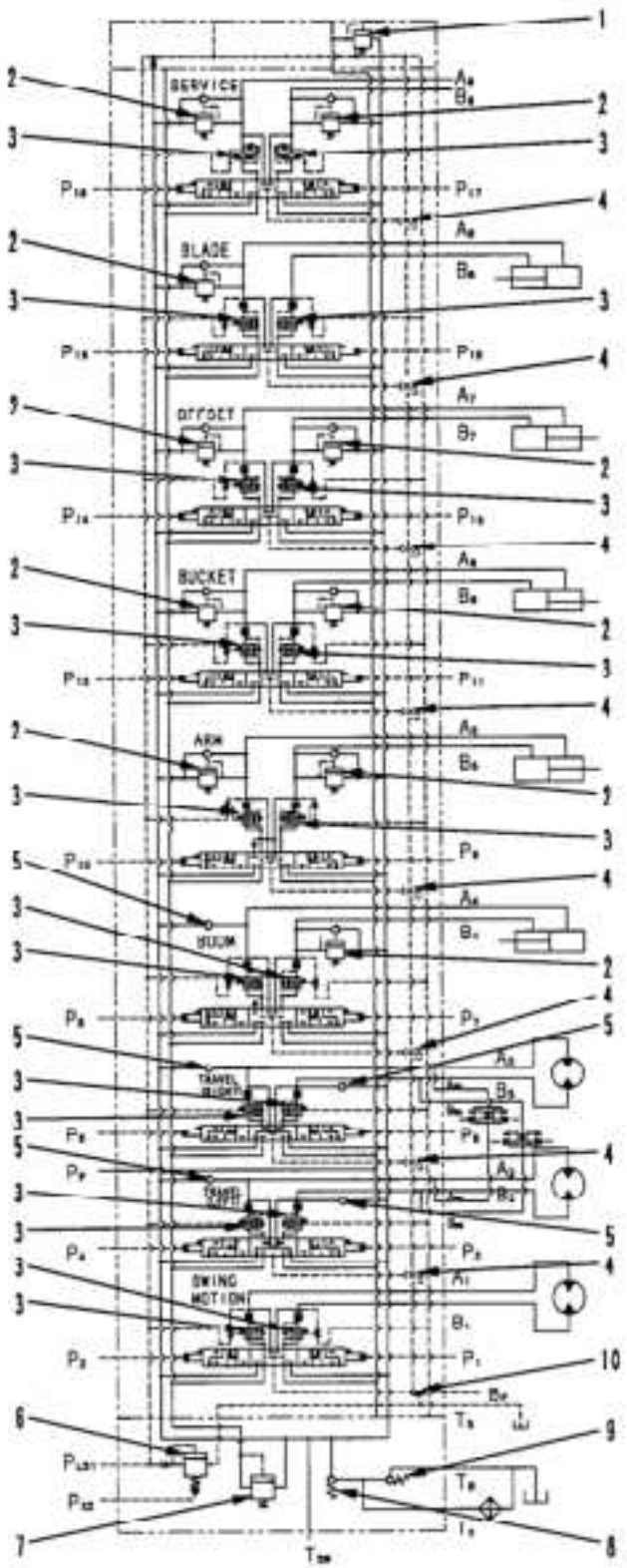
1. Cap
2. Pressure valve
3. Vacuum valve
4. Drain plug
5. Return filter
6. Bypass valve
7. Bypass strainer
8. Sight gauge
9. Suction strainer

Specification
Tank capacity: 122 ℓ
Oil amount: 82 ℓ
Pressure valve cracking pressure :
38.3 ± 14.7 MPa {0.39 ± 0.15 kg/cm²}
Vacuum valve cracking pressure :
0 – -45 MPa {0 – -0.046 kg/cm²}
Bypass valve cracking pressure :
103 ± 19.6 MPa {1.05 ± 0.2 kg/cm²}

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OPERATION FOR EACH FUNCTION AND VALVE

Hydraulic circuit diagram and name of valve



30P02480

1. Unload valve
   (LS pressure + 2.45MPa {25 kg/cm²})
2. Safety-suction valve

Valve	Set pressure (MPa{kg/cm²})
Boom (lower end)	33.3 {340}
Arm	35.8 {365}
Bucket	
Offset	27.0 {275}
Blade (lower end)	32.4 {330}
Service	24.5 {250}

3. Pressure compensation valve
4. LS shuttle valve
5. Suction valve
6. LS bypass valve
   (7.85 MPa {80 kg/cm²}, when pressure rises: 36.3 MPa {370 kg/cm²} cracking pressure)
7. Main relief valve
   (normal: 31.9 MPa {325 kg/cm²}, when pressure rises: 34.8 MPa {355 kg/cm²})
8. Lift check valve
   (cracking pressure: 0.2 MPa {2.0 kg/cm²})
9. Bypass check valve
10. LS select valve

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METHOD OF USING TROUBLESHOOTING CHARTS

Using troubleshooting chart for engine-related failure

This troubleshooting chart is divided into three sections: **questions, check items, and troubleshooting.** The questions and check items are used to pinpoint high probability causes that can be located from the failure symptoms or simple inspeciton without using troubleshooting tools.

Next, troubleshooting tools or direct inspection are used to check the high probability causes to make final confirmation.

[Questions]

Sections Ⓐ + Ⓑ in the chart on the right corresponds to the items where answers can be obtained from the user. The items in B are items that can be obtained from the user, depending on the user's level.

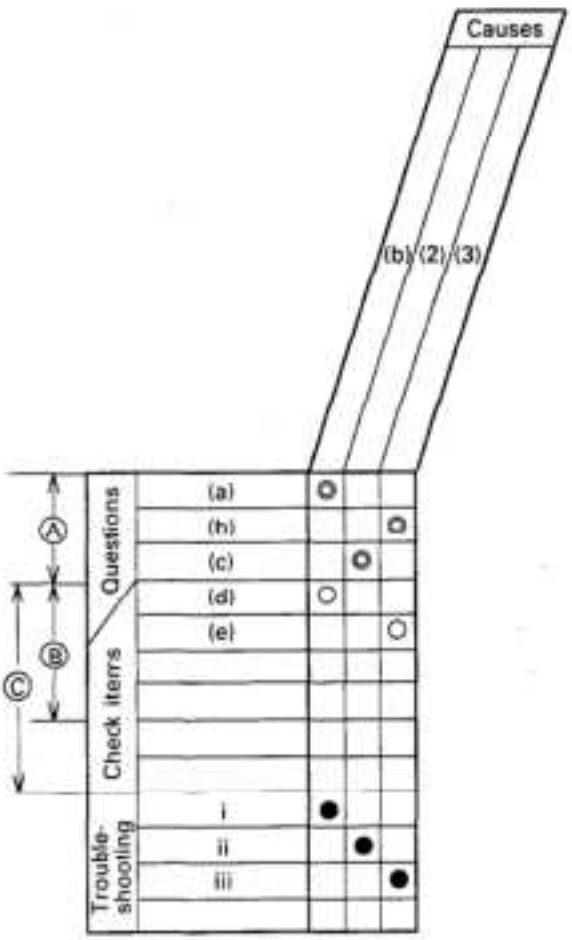
[Check items]

The serviceman carries out simple inspection to narrow down the causes. The items under Ⓒ in the chart on the right correspond to this.

The serviceman narrows down the causes from information Ⓐ that he has obtained from the user and the results of Ⓒ that he has obtained from his own inspection.

[Troubleshooting]

Troubleshooting is carried out in the order of probability, starting with the causes that have been marked as having the highest probability from information gained from **[Questions]** and **[Check items]**.

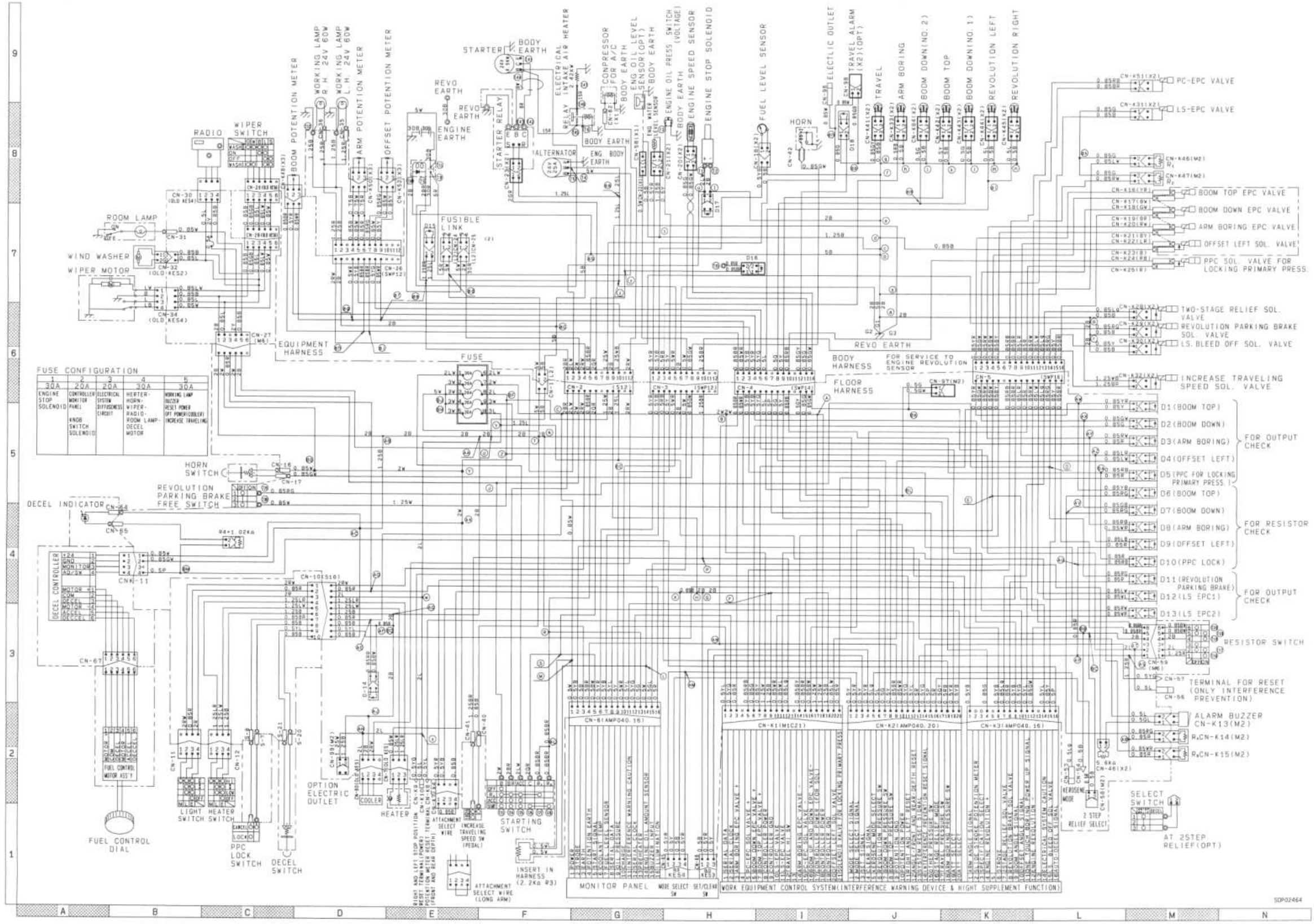


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ELECTRICAL CIRCUIT DIAGRAM

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