SEBM016104

SHOP MANUAL

KOMATSU®

D375A-3

MACHINE MODEL **D375A-3**

SERIAL NUMBER **17501 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.

- D375A-3 mounts the SA6D170-2 engine.
  For details of the engine, see the 6D170-2 Series Engine Shop Manual.

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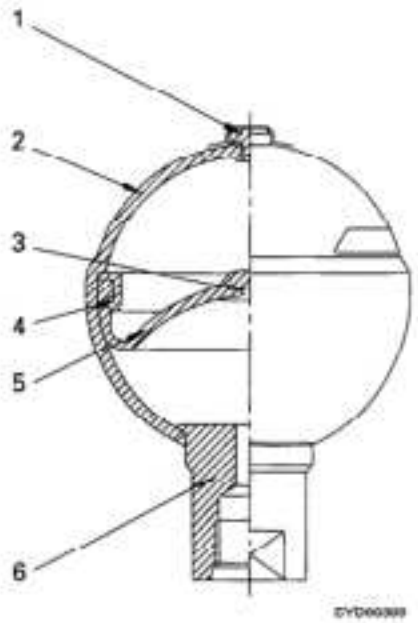
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ACCUMULATOR

FOR PPC VALVE



1. Gas plug
2. Shell
3. Poppet
4. Holder
5. Bladder
6. Oil port

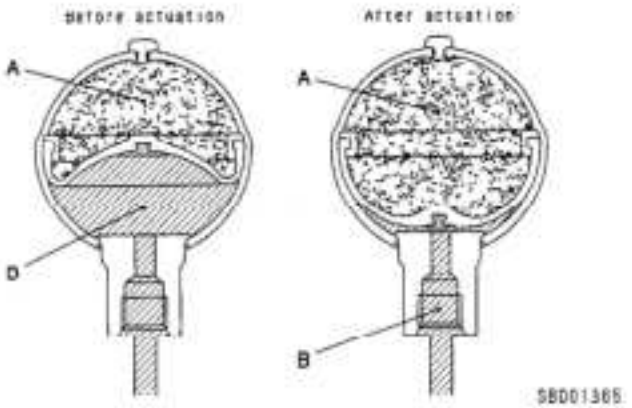
Specifications:
Type of gas: Nitrogen
Gas volume: 300 cc
Max. actuation pressure: 3.1 MPa {32 kg/cm²}
Min. actuation pressure: 1.2 MPa {12 kg/cm²}

Function

- The accumulator is installed between the PPC charge pump and the PPC valve. Even if the engine is started with the work equipment still raised, the pressure of the nitrogen gas compressed inside the accumulator sends the pilot pressure to the main control valve to actuate it and enable the work equipment to move down under its own weight.

Operation

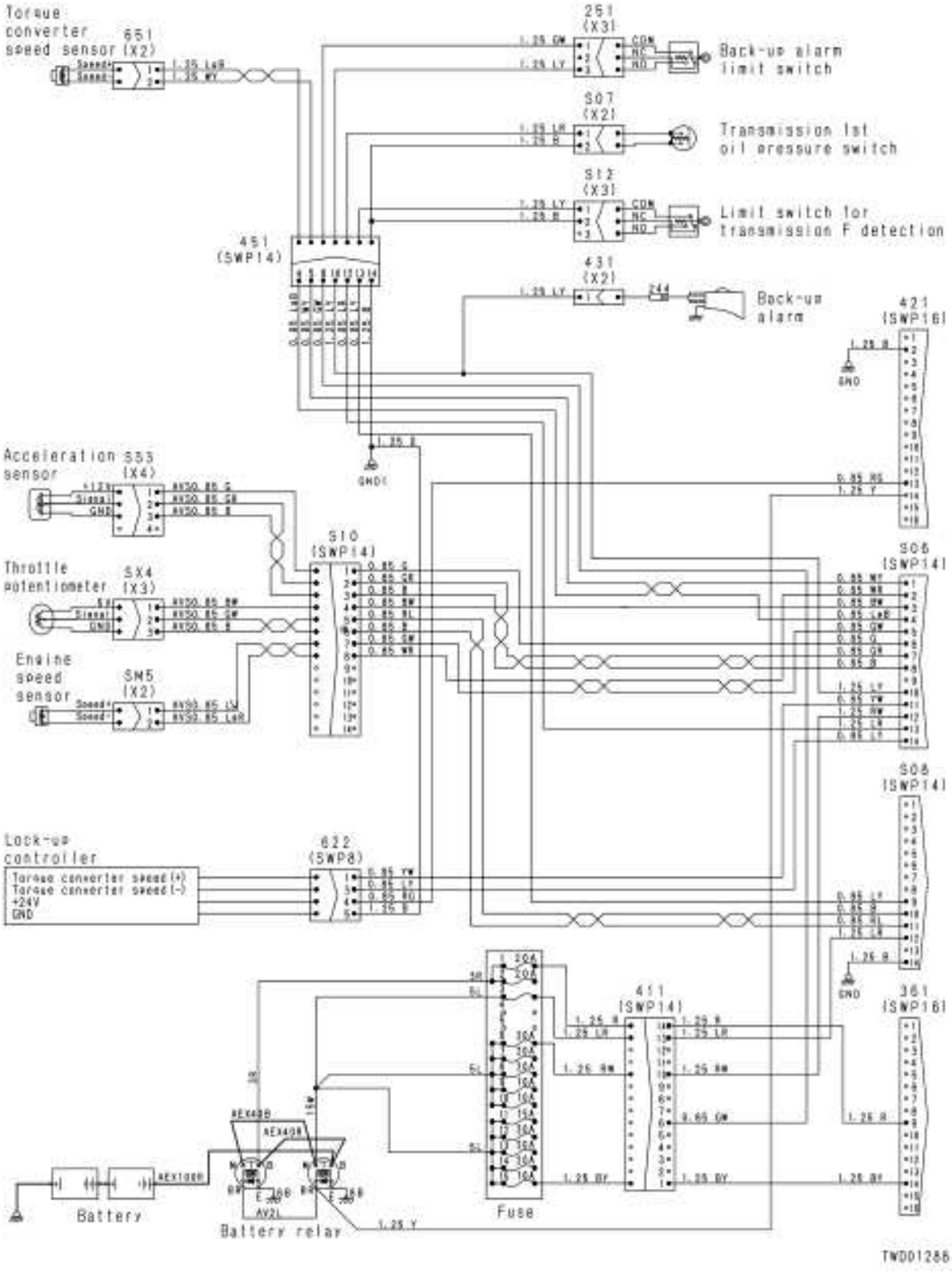
- After the engine is stopped, when the PPC valve is at neutral, chamber **A** inside the bladder is compressed by the oil pressure in chamber **B**.
- When the PPC valve is operated, the oil pressure in chamber **B** goes below 2.9 MPa {30 kg/cm²}, and the pressure of the nitrogen gas in chamber **A** expands the bladder, so the oil in chamber **B** acts as the pilot pressure and actuates the main control valve.



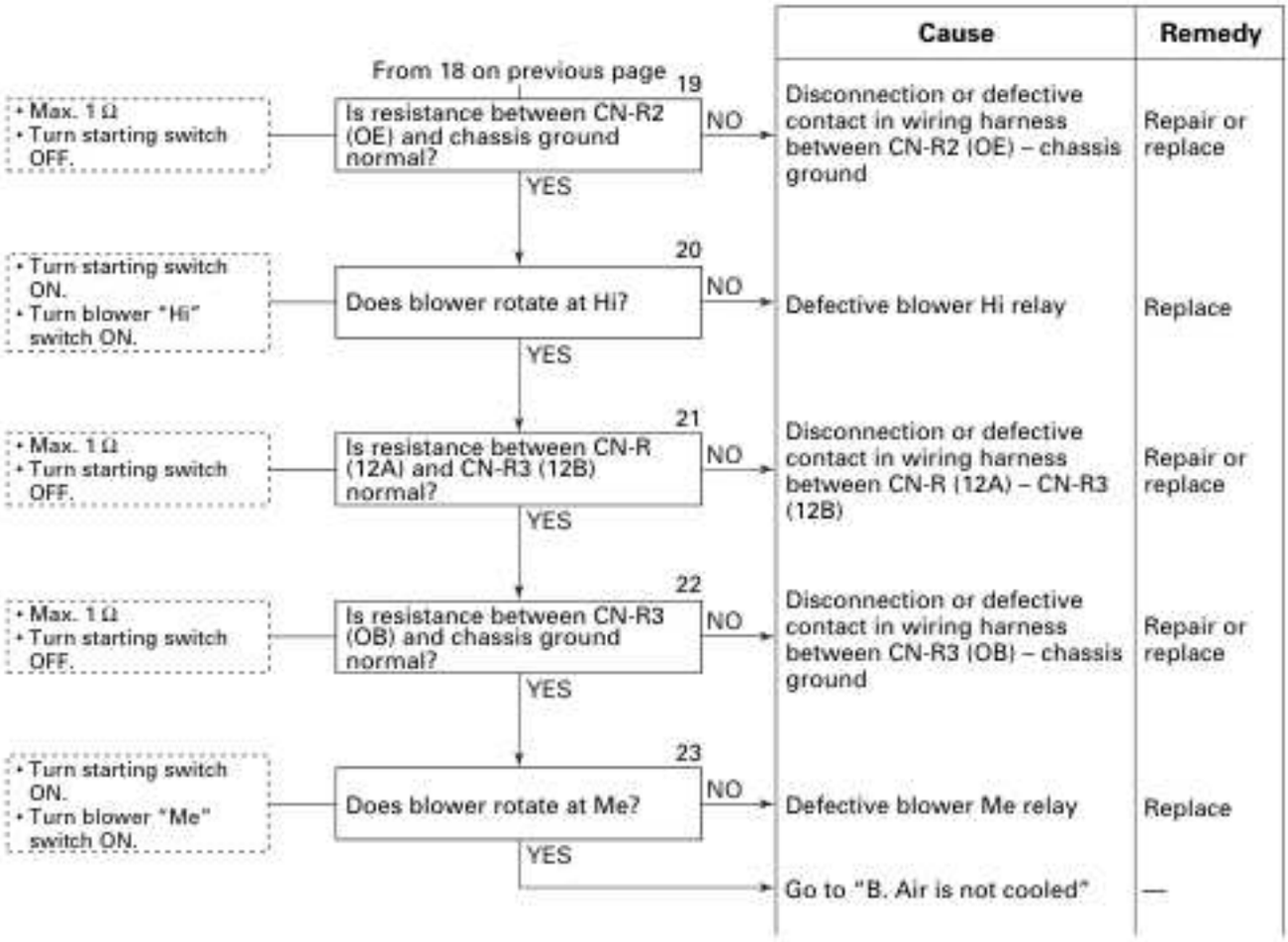
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ELECTRICAL CIRCUIT DIAGRAM FOR ES MODE SYSTEM

Shoe slip control system



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If trouble is not repaired by taking remedy against causes marked with ☆, control panel may be defective.

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ELECTRIC CIRCUIT DIAGRAM

CHASSIS ELECTRIC CIRCUIT DIAGRAM (2/2)

