SHOP MANUAL

KOMATSU®

HM400-1

Machine model	Serial number
HM400-1	**1001 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.

- HM400-1 mount the SAA6D140E-3 engine.
  For details of the engine, see the 140-3 Series Engine Shop Manual.

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3. Method of using YES/NO troubleshooting flowchart (ENG mode, TM mode, BK mode, MON mode)

1) Troubleshooting code number and problem
The title at the top of the troubleshooting chart gives the failure code and problem with the machine.
Example: M-13 Abnormality in buzzer

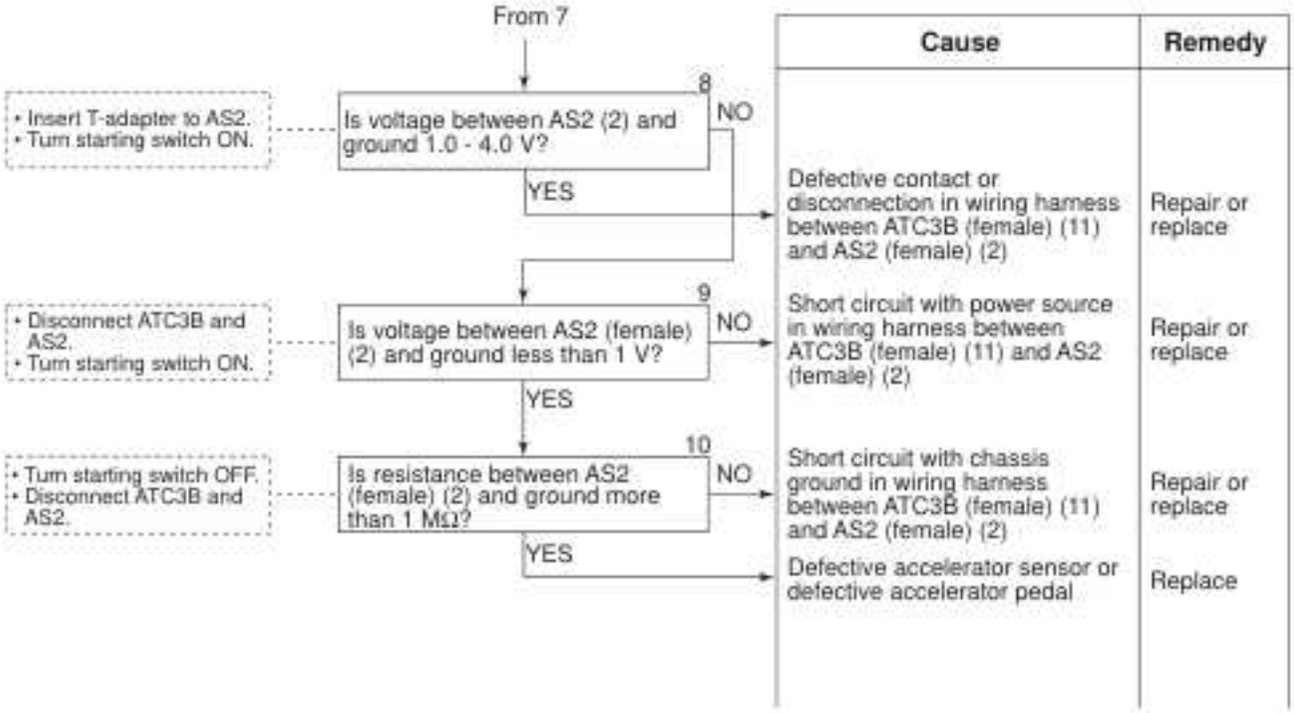
2) General precautions
When carrying out troubleshooting, precautions are given at the top of the page under the title and marked with ★.
The precautions common to all troubleshooting are marked ★ in the Contents, so they must always be followed checked before carrying out the troubleshooting.
Example: ★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on the next step.

3) Distinguishing conditions
Even with the same problem, the method of troubleshooting may differ according to the model, component, or problem. In such cases, the failure mode is further divided into sections marked with small letters (for example, a)), so go to the appropriate section to carry out troubleshooting.
If the troubleshooting chart is not divided into sections, start troubleshooting from the first check item in the flowchart.
Example: a) When starting switch is turned ON (3 sec), buzzer does not sound
b) Buzzer always sounds

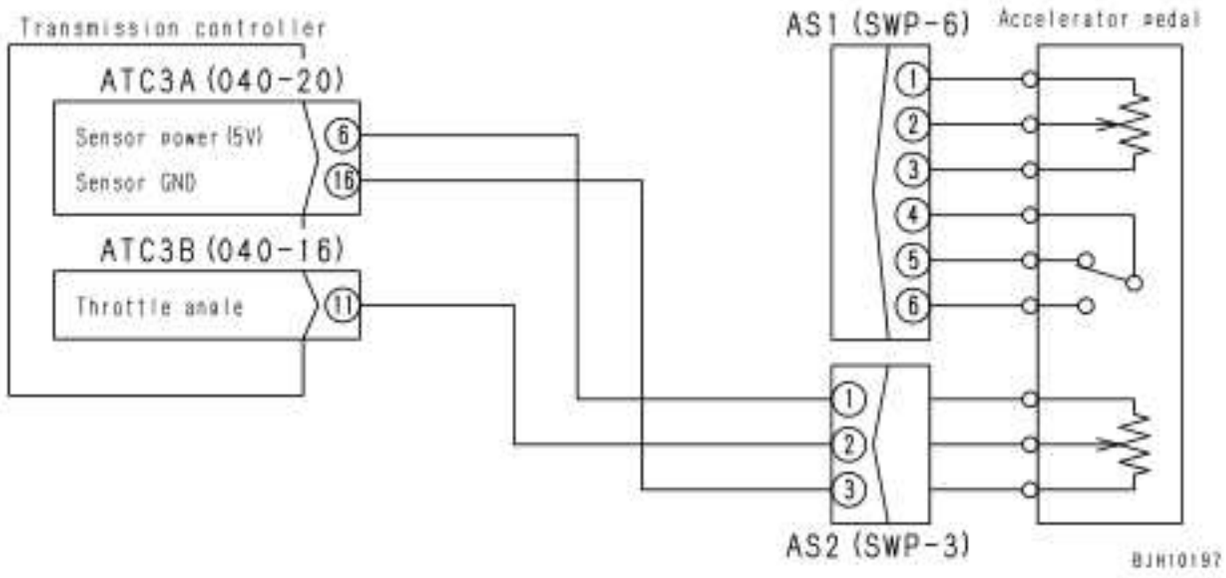
4) Method of following troubleshooting chart
- Check or measure the item inside [ ], and according to the answer follow either the YES line or the NO line to go to the next [ ]. (Note: The number written at the top right corner of the [ ] is an index number; it does not indicate the order to follow.)
- Following the YES or NO lines according to the results of the check or measurement will lead finally to the Cause box. Check the cause and take the action given in the Remedy box on the right.
- To the left of the [ ] there [ ] (a box formed by a broken line). This contains the methods for inspection or measurement, and the judgement values. If the judgment values to the left of the [ ] are correct or the answer to the question inside the [ ] is YES, follow the YES line; if the judgement value is not correct, or the answer to the question is NO, follow the NO line.
- The [ ] gives the preparatory work needed for inspection and measurement, and the judgement values. If this preparatory work is neglected, or the method of operation or handling is mistaken, there is danger that it may cause mistaken judgment, or the equipment may be damaged. Therefore, before starting inspection or measurement, always read the instructions carefully, and start the work in order from the first item.

5) Mounting location, pin number
For details of the connector pin number and check and measurement locations of the connector pin numbers appearing in the flowchart, see CONNECTOR TYPE AND MOUNTING LOCATION.

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TM-69 Related electrical circuit diagram



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10. Lift off equalizer bar (12).

kg Equalizer bar: **250 kg.**



INSTALLATION OF EQUALIZER BAR ASSEMBLY

- Carry out installation in the reverse order to removal.

※ 1

Refill the rear suspension cylinder with nitrogen gas. For details, see Testing and adjusting suspension cylinder.

※ 2

kgm Rod pin: **157 - 196 Nm {16 - 20 kgm}**

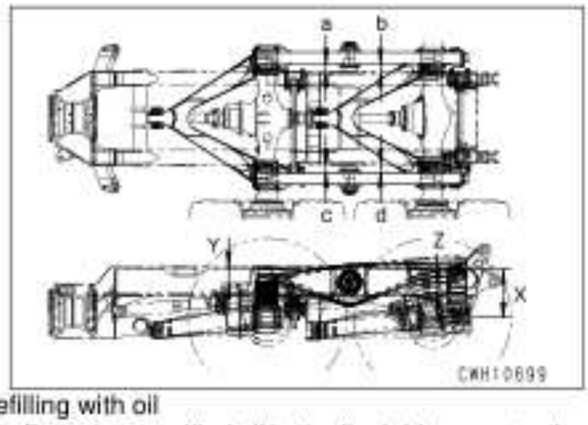
※ 3

★ When installing the plate, measure the distance between the vehicle body and equalizer bar and adjust the difference between distances "a" and "b" and between "c" and "d" will be 2 mm respectively.

kgm Plate (Diameter of thread: 24 mm):
824 - 1,030 Nm {84 - 105 kgm}

(Diameter of thread: 14 mm):
157 - 196 Nm {16 - 20 kgm}

★ Install the rear axle and arm assembly so that distance (y) between the rear frame top and equalizer bar spring top will be 201 mm when distance (x) between the rear suspension cylinder pins is 574 mm (Clearance "z" between the rear axle top and rear frame bottom is 130 mm at this time).



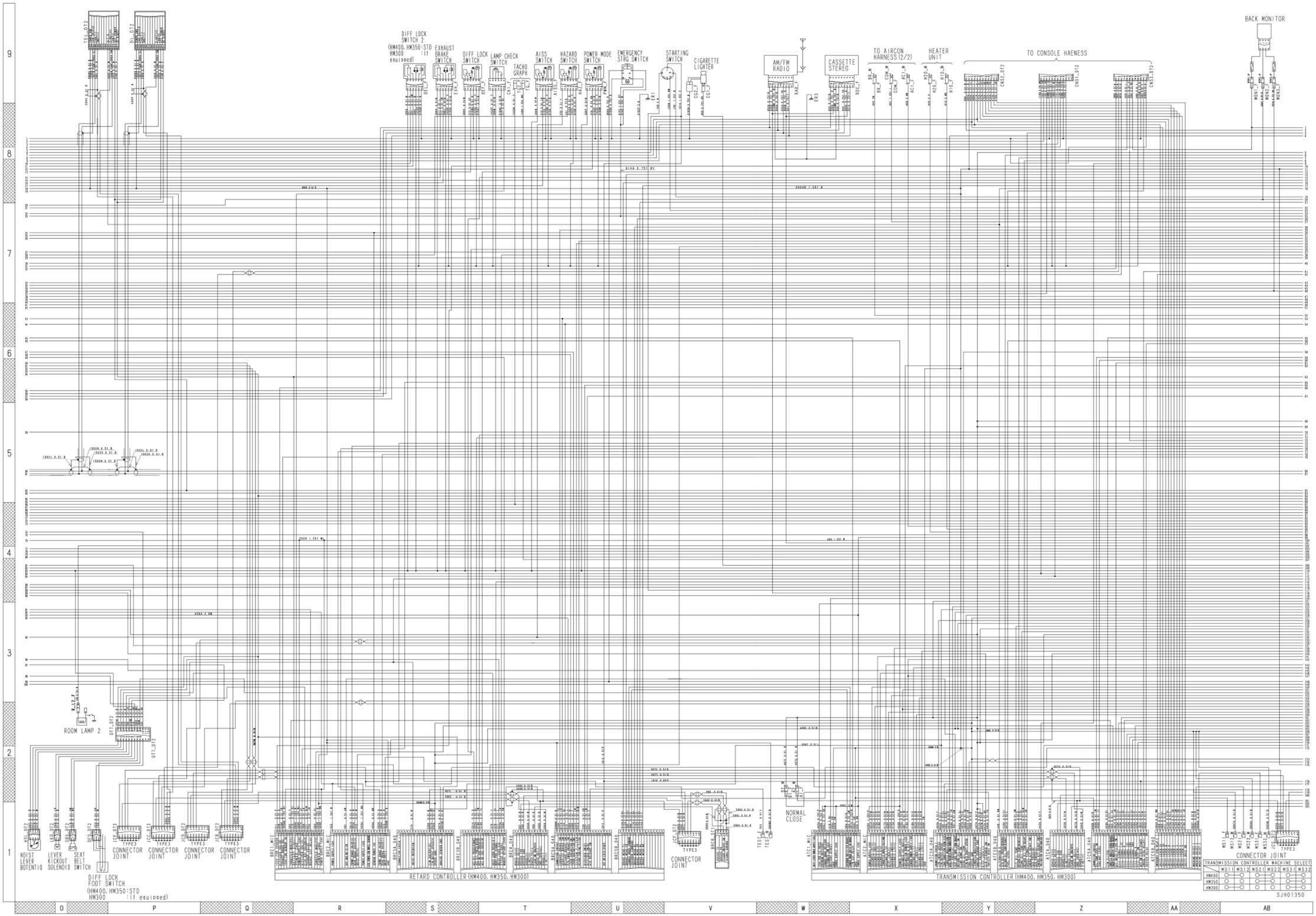
Refilling with oil

★ Pour the specified oil in the final drive case to the specified level.

★ Add engine oil (EO10-CD) to spcified.

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DIAGRAM FOR ELECTRICAL CIRCUIT INSIDE CAB (2/4)



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