SEBM05610311

Shop Manual

KOMATSU®

HD785-3
HD985-3

DUMP TRUCK

SERIAL NUMBERS **HD785-3 - 2001**
HD985-3 - 1001 and up

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October 1997

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★ For details of the applicable serial numbers for the contents of each item in this shop manual, see CONTENTS for each section.

<Explanation of applicable serial numbers>
1. When no model is listed after the CONTENTS : Applicable to both HD785 and HD985
2. When a model is listed in ( ) after the CONTENTS : Applicable only to the model given in ( ).

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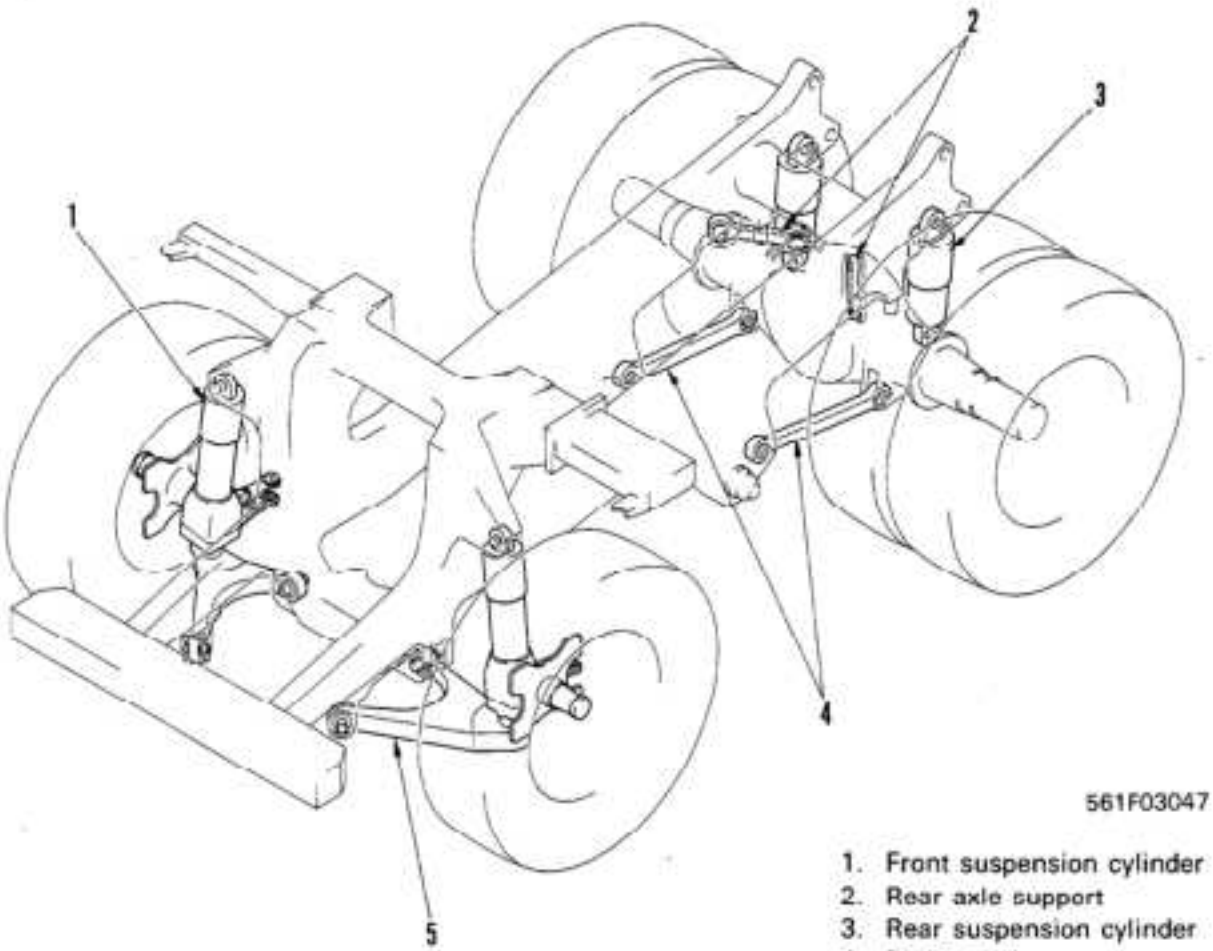
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SUSPENSION SYSTEM



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1. Front suspension cylinder
2. Rear axle support
3. Rear suspension cylinder
4. Radius rod
5. Arm (A-frame)

OUTLINE

The suspension system supports the weight of the chassis, and absorbs the shock from uneven road surfaces to provide a comfortable ride for the operator. At the same time, it maintains the stability of the machine by ensuring that all four wheels are always in contact with the ground surface. In this way, it allows the machine to demonstrate its full performance in items such as acceleration, braking, and turning, even when traveling at high speed.

Hydropneumatic cylinders are used for the suspension cylinders to reduce the shock. With hydropneumatic cylinders, the suspension cylinder is charged (sealed) with oil and nitrogen gas. This acts as a shock absorber (spring and damper) by contracting and expanding the nitrogen gas and oil to absorb the load from the road surface.

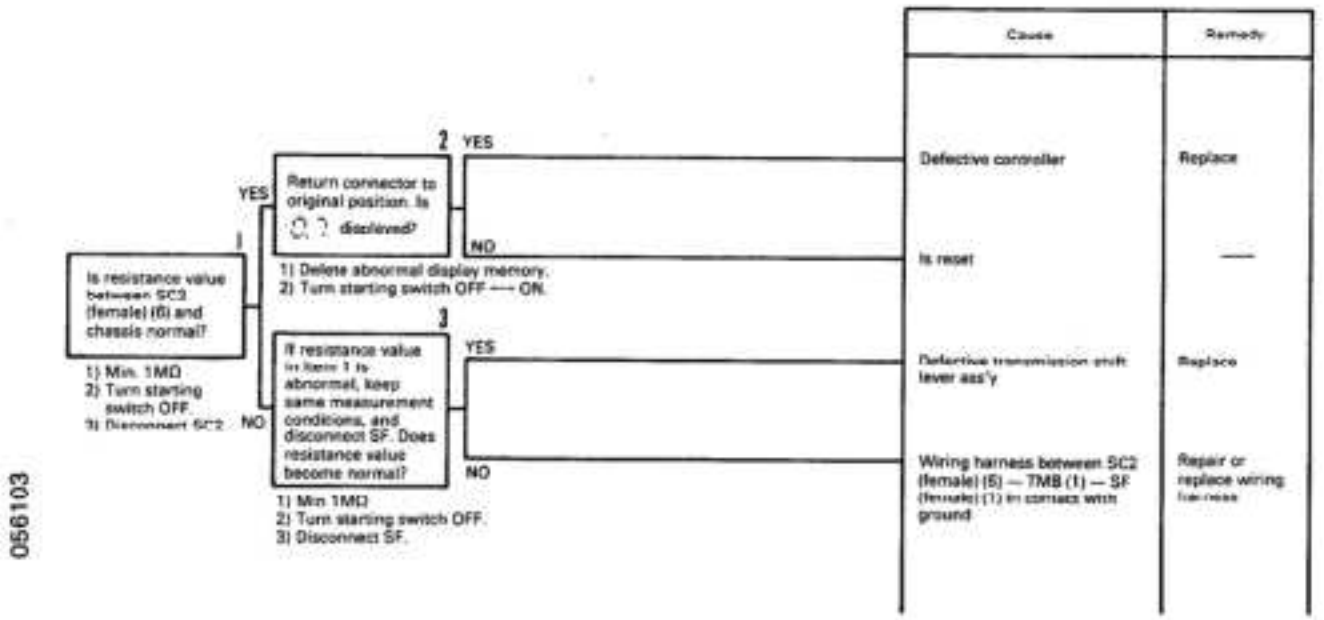
In addition to these functions, the front suspension employs an automatic suspension system. In this system, the force of the suspension is automatically changed by selecting the damping force to match the travel conditions and load conditions. This further increases the stability and riding comfort of the machine.

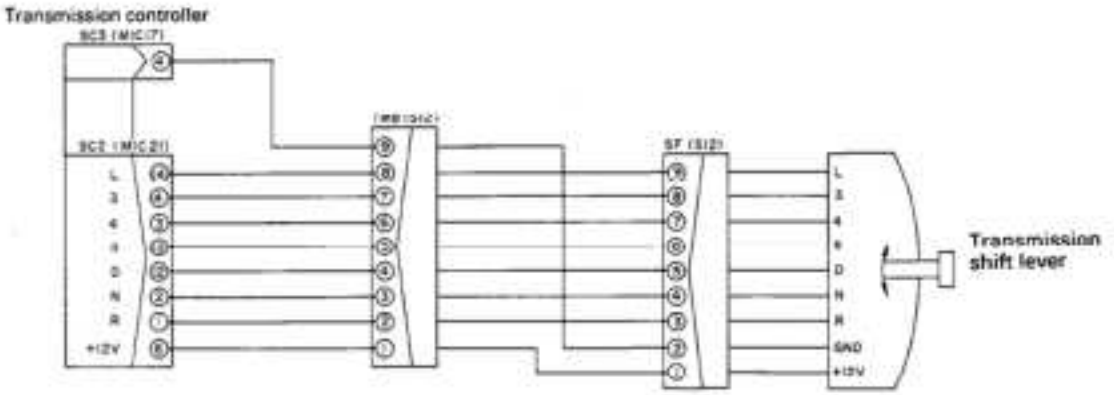
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A-9 Abnormality in transmission shift lever system

a) **Short circuit in transmission shift lever assembly power source displayed**

★ When controller power source is normal.
★ Before carrying out troubleshooting, check that all the related connectors are properly inserted.
★ Always connect any disconnected connectors before going on to the next step.





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H-2: MACHINE DOES NOT TRAVEL SMOOTHLY

- Hunting of engine
- Flash lock-up lamp

Cause	Remedy
• Insufficiency of main relief pressure • Wear of clutch seal ring	Go to H-6

H-3: LOCK-UP CLUTCH CANNOT BE DISENGAGED

Check before troubleshooting

- Is oil level in transmission case correct?

The following symbols are used to indicate the action to be taken when a cause of failure is located.

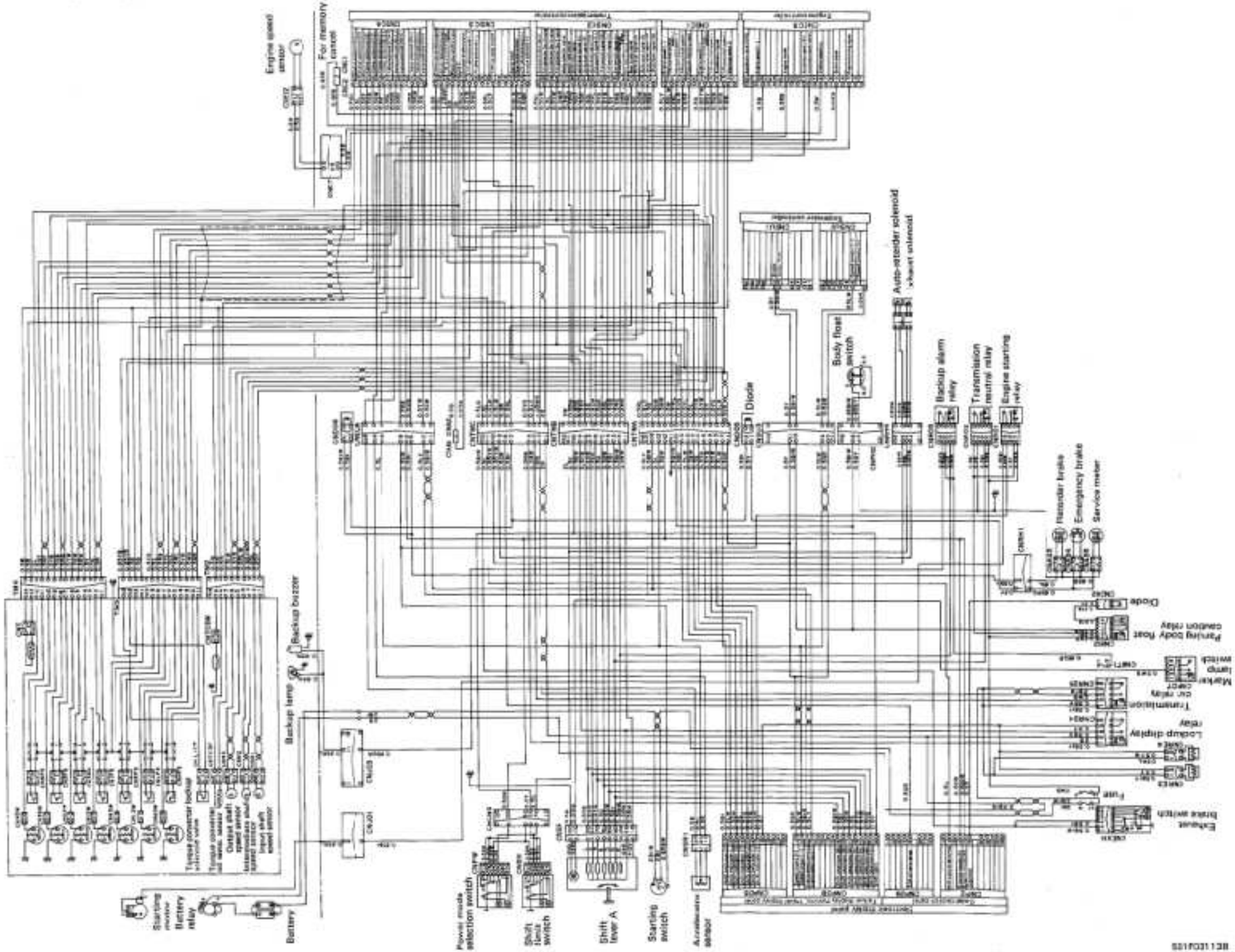
X: Replace Δ: Repair
A: Adjust C: Clean

No.	Problems \ Cause / Remedy	Defective operation of lock-up solenoid (a)	Defective operation of lock-up valve (b)	Lock-up clutch slips (c)
		X	X	Δ X
1	Lock-up clutch oil pressure does not lower 0 kg/cm².	○	○	
2	Lock-up clutch does not disengage when lock-up clutch oil pressure is 0 kg/cm²			○
3	Operation of lock-up valve is normal.	○		
4	Operation of lock-up solenoid valve is normal.		○	

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• For engines with electronic governor



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