SEAM003601

Operation & Maintenance Manual



HD785-3

DUMP TRUCK

SERIAL NUMBERS **HD785-3 - 2269** and up

KOMATSU®

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5. CONTENTS

1. **Foreword** 0- 1

2. **Safety information** 0- 2

3. **Introduction** 0- 3
   3.1 Features 0- 3
   3.2 Breaking in the machine 0- 3

4. **Location of plates, table to enter serial number and distributor** 0- 4
   4.1 Machine serial No. plate position 0- 4
   4.2 Engine serial No. plate position 0- 4
   4.3 Table to enter serial No. and distributor 0- 4

SAFETY

6. **General precautions** 1- 2

7. **Precautions during operation** 1- 7
   7.1 Before starting engine 1- 7
   7.2 Operating machine 1- 9
   7.3 Battery 1- 13
   7.4 Towing 1- 14

8. **Precautions for maintenance** 1- 15
   8.1 Before carrying out maintenance 1- 15
   8.2 During maintenance 1- 17
   8.3 Tires 1- 21

9. **Position for attaching safety labels** 1- 23
   9.1 Position for attaching safety labels 1- 23
   9.2 Place for storing manual 1- 26

OPERATION

10. **General view** 2- 2
   10.1 General view of machine 2- 2
   10.2 General view of controls and gauges 2- 3

11. **Explanation of components** 2- 4
   11.1 Machine monitor 2- 4
   11.2 Switches 2- 22
   11.3 Control levers and pedals 2- 29
   11.4 Mechatronics equipment controller 2- 33
   11.5 Safety pin 2- 33
   11.6 Fuses 2- 34
   11.7 Car stereo 2- 36
   11.8 Air conditioner 2- 42
   11.9 Car heater 2- 45
   11.10 Location of fire extinguisher 2- 45
   11.11 Location of first aid box 2- 45

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12. Operation 2- 47
12.1 Check before starting engine 2- 47
12.2 Starting engine 2- 64
12.3 Operations and checks after starting engine 2- 66
12.4 Moving machine off 2- 67
12.5 Shifting gear 2- 69
12.6 Traveling downhill 2- 70
12.7 Traveling in reverse 2- 79
12.8 Steering the machine 2- 80
12.9 Stopping the machine 2- 81
12.10 Operating dump body 2- 83
12.11 Precautions for operation 2- 85
12.12 Parking machine 2- 86
12.13 Checks after completion of work 2- 87
12.14 Stopping engine 2- 87
12.15 Checks after stopping engine 2- 87
12.16 Locking 2- 88
12.17 Handling tires 2- 89

13. Determining and maintaining travel road 2- 92
13.1 Determining travel road 2- 92
13.2 Maintaining travel road 2- 93

14. Cold weather operation 2- 94
14.1 Precautions for low temperature 2- 94
14.2 Precautions after completion of work 2- 96
14.3 After cold weather 2- 96

15. Long-term storage 2- 97
15.1 Before storage 2- 97
15.2 During storage 2- 97
15.3 After storage 2- 98
15.4 Precautions before traveling after long-term storage 2- 98

16. Troubleshooting 2- 99
16.1 After running out of fuel 2- 99
16.2 Towing machine 2- 99
16.3 If battery is discharged 2-103
16.4 Other trouble 2-107

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MAINTENANCE

17. Guides to maintenance 3- 2

18. Outlines of service 3- 5
18.1 Outline of oil, fuel, coolant 3- 5
18.2 Outline of electric system 3- 8

19. Wear parts list 3- 9

20. Use of fuel, coolant, and lubricant according to ambient temperature 3- 10

21. Standard tightening torques for bolts and nuts 3- 14
21.1 Introduction of necessary tools 3- 14
21.2 Torque list 3- 15

22. Periodic replacement of safety critical parts 3- 16

23. Maintenance schedule chart 3- 18

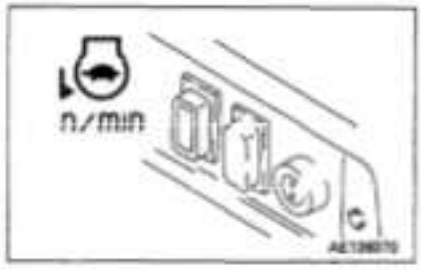
24. Service procedure 3- 23
24.1 Initial 250 hours service 3- 23
24.2 When required 3- 24
24.3 Check before starting 3- 37
24.4 Every 250 hours service 3- 47
24.5 Every 500 hours service 3- 57
24.6 Every 1000 hours service 3- 62
24.7 Every 2000 hours service 3- 67
24.8 Every 4000 hours service 3- 73
24.9 Every 3 years service 3- 74

SPECIFICATIONS

25. Specifications 4- 2

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8. AISS LOW SWITCH



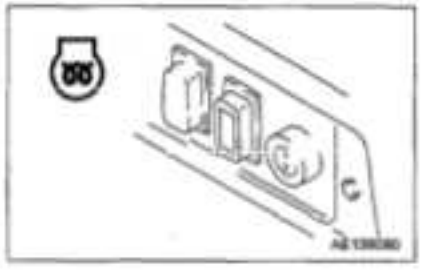
Using the advanced switch, it is possible to switch the AISS to AUTO or LOW as desired. The positions are used as follows.

- position: LOW position
  Used when fine control movements are needed, such as when parking in confined spaces.
  The pilot lamp inside the switch lights up.
- position: AUTO position
  This is used for normal operations.

If the switch is set to the AUTO position, the following conditions are actuated.

1. When the machine is stopped, the idling speed is set to LOW speed when the parking brake or retarder are ON. When the parking brake is released to start traveling, the idling speed is set to HIGH pseed.
2. The cooling water temperature is detected, and if the water temperature is low, the idling speed is automatically set to HIGH speed to reduce the time taken for the warming up operation.

9. PREHEATING SWITCH (with built-in pilot lamp)



An electric heater is switched on to heat the intake air for the engine.

- position: Preheating is carried out.

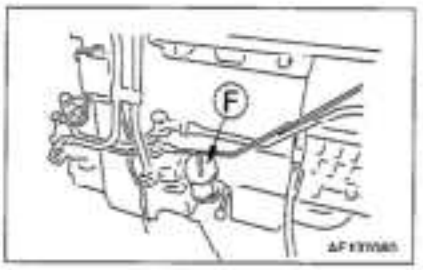
This built-in lamp lights up when the electrical heater for preheating the engine is being actuated.

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6. Clean the filter holder, fill the new filter cartridge with engine oil, coat the packing face and thread with engine oil (or coat thinly with grease), then install the filter cartridge.

7. When installing the filter cartridge, tighten until the packing face is in contact with the filter holder, then tighten a further 3/4 – 1 turn.
8. Add engine oil through oil filler Ⓕ to fill to the specified level.

9. Run the engine for a short time at idling, then check the oil level. For details, see "24.3 CHECK BEFORE STARTING"



For details of the oil to use, see "20. USE OF FUEL, COOLANT, AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".

Even if the machine has not been operated for 250 hours, the oil and filter cartridge must be replaced when the machine has been operated for 6 months.

In the same way, even if the machine has not been operated for 6 months, the oil and filter cartridge must be replaced when the machine has been operated for 250 hours.

Use API category CD class oil. If CC class oil must be used, change the oil and replace the oil filter at half the usual interval (125 hours).

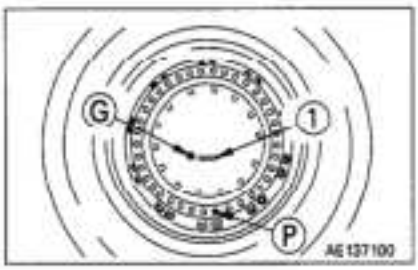
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24.7.3 CHANGE OIL IN FINAL DRIVE CASE

⚠WARNING

The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations.
Wait for the oil to cool down before starting the operation.

- Container to catch drained oil: Min. 128 ℓ capacity
- Refill capacity: 64 ℓ (16.9 US gal, 14.1 UK gal)



1. Stop the machine so that casting line ① is horizontal and drain plug Ⓟ is at the bottom.
2. Remove drain plug Ⓟ, drain the oil, then tighten the plug again.
3. Add engine oil through the hole for plug Ⓖ to the specified level.

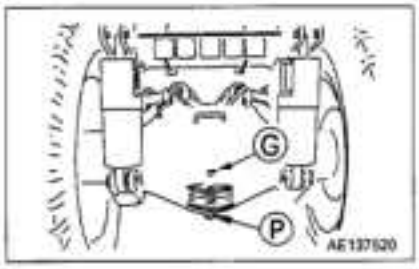
   For details of the oil to use, see "20. USE OF FUEL, COOLANT, AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".
4. After adding oil, check that the oil is at the specified level. See "24.4 EVERY 250 HOURS SERVICE".

24.7.4 CHANGE OIL IN DIFFERENTIAL CASE

⚠WARNING

The oil is at high temperature after the engine has been operated, so never change the oil immediately after finishing operations.
Wait for the oil to cool down before starting the operation.

- Container to catch drained oil: Min. 130 ℓ capacity
- Refill capacity: 130 ℓ (34.3 US gal, 28.6 UK gal)



1. Remove drain plug Ⓟ, drain the oil, then tighten the plug again.
2. Add engine oil through the hole in plug Ⓖ to the specified level.

   For details of the oil to use, see "20. USE OF FUEL, COOLANT, AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE".
3. After adding oil, check that the oil is at the specified level. See "24.4 EVERY 250 HOURS SERVICE".

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