TEN00044-10

Operation & Maintenance Manual

ARTICULATED
DUMP TRUCK

HM300-1

SERIAL NUMBERS 1260 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

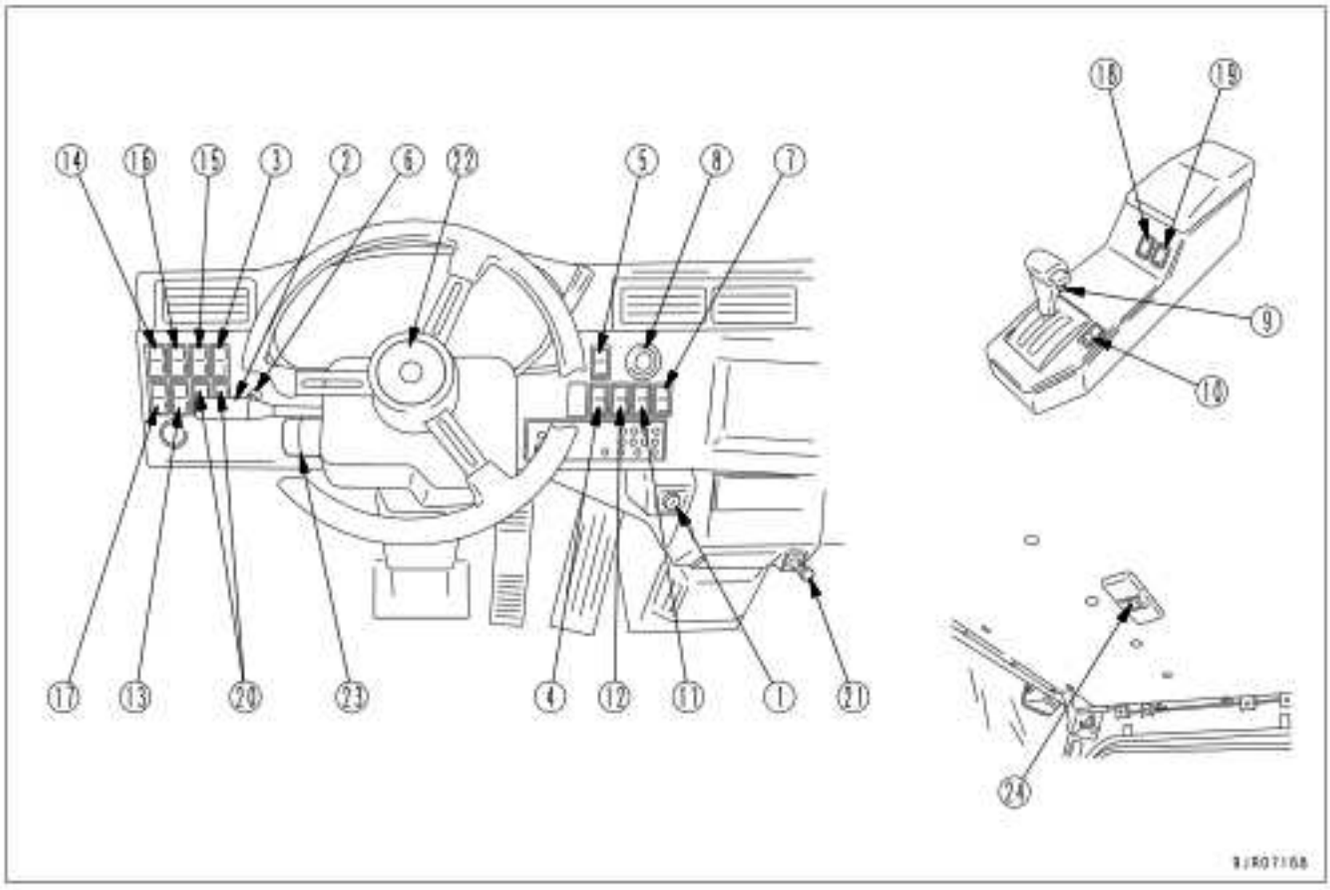
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TRAVELING DOWNHILL ---- 3- 92
STEERING THE MACHINE ---- 3-100
OPERATION USING DIFFERENTIAL LOCK ---- 3-101
LOADING OPERATIONS ---- 3-102
DUMP OPERATIONS ---- 3-103
CAB TILT OPERATION ---- 3-105
PRECAUTIONS FOR OPERATION ---- 3-108
PARKING MACHINE ---- 3-109
CHECKS AFTER COMPLETION OF WORK ---- 3-110
LOCKING ---- 3-110
HANDLING TIRES ---- 3-111
DETERMINING AND MAINTAINING TRAVEL ROAD ---- 3-112
DETERMINING TRAVEL ROAD ---- 3-112
MAINTAINING TRAVEL ROAD ---- 3-112
TRANSPORTATION ---- 3-113
PRECAUTIONS WHEN TRANSPORTING ---- 3-113
STEPS FOR TRANSPORTATION ---- 3-113
METHOD OF SECURING MACHINE ---- 3-114
METHOD OF LIFTING MACHINE ---- 3-115
COLD WEATHER OPERATION ---- 3-119
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-119
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-120
AFTER COLD WEATHER ---- 3-121
LONG-TERM STORAGE ---- 3-122
BEFORE STORAGE ---- 3-122
DURING STORAGE ---- 3-122
AFTER STORAGE ---- 3-122
PRECAUTIONS BEFORE TRAVELING AFTER LONG-TERM STORAGE ---- 3-122
TROUBLESHOOTING ---- 3-123
AFTER RUNNING OUT OF FUEL ---- 3-123
IF TRANSMISSION HAS TROUBLE ---- 3-124
METHOD OF TOWING MACHINE ---- 3-125
IF BATTERY IS DISCHARGED ---- 3-129
OTHER TROUBLE ---- 3-132
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINE OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
OUTLINE OF ELECTRIC SYSTEM ---- 4- 8
WEAR PARTS ---- 4- 9
WEAR PARTS LIST ---- 4- 9
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 10
USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE ---- 4- 11
RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL ---- 4- 13
STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS ---- 4- 14
TORQUE LIST ---- 4- 14
PERIODIC REPLACEMENT OF SAFETY CRITICAL PARTS ---- 4- 16
SAFETY CRITICAL PARTS ---- 4- 16
MAINTENANCE SCHEDULE CHART ---- 4- 17

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SWITCHES



(1) Starting switch
(2) Lamp switch
Turn signal lever
Dimmer switch
(3) Machine monitor bulb check switch
(4) Exhaust brake switch (if equipped)
(5) Hazard lamp switch
(6) Night lighting dimmer switch
(7) Power mode selector switch
(8) Emergency steering switch
(9) Shift hold switch
(10) Parking brake switch
(11) AISS LOW switch
(12) Inter-axle differential lock switch
(13) Fog lamp switch (if equipped)
(14) Side lamp switch (if equipped)
(15) Working lamp (front) switch
(16) Switch for mirror with heater (if equipped)
(17) Yellow rotating lamp switch (if equipped)
(18) Power window switch (right)
(19) Power window switch (left)
(20) Machine monitor mode selector switch 1, 2
(21) Cigarette lighter
(22) Horn button
(23) Wiper, window washer switch
(24) Room lamp switch

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REPLACE ADDITIONAL FUEL FILTER CARTRIDGE

WARNING

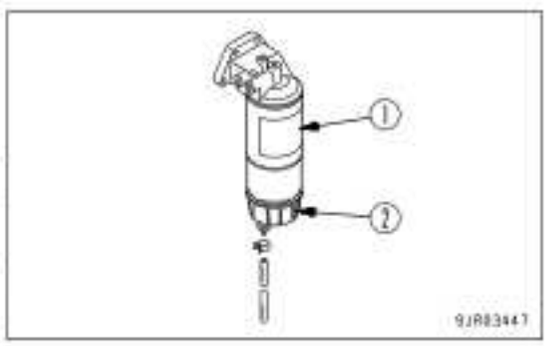
- Immediately after the engine is stopped, all parts are at high temperature, so do not replace the filter immediately. Wait for the engine to cool down before starting the operation.
- The inside of fuel piping system of the engine is under high-pressure when the engine is running. When replacing the filter, wait for at least 30 seconds after the engine stops to let the internal pressure go down before replacing the filter.
- Do not bring any fire or spark close.
- Be careful when opening the air bleed plug at the fuel filter head and the air bleeder of the supply pump. The system is still under pressure and fuel may spurt out.

NOTICE

- Genuine Komatsu fuel filter cartridges use a special filter that has highly efficient filtering ability. When replacing the filter cartridge, always use a genuine Komatsu part.
- The common rail fuel injection system used on this machine consists of more precise parts than the conventional injection pump and nozzle.
  If any part other than a genuine Komatsu filter cartridge is used, dust or dirt may get in and cause problems with the injection system. Always avoid using substitute parts.
- When performing inspection or maintenance of the fuel system, pay more attention than normal to the entry of dirt. If dirt is stuck to any part, use fuel to wash it off completely.

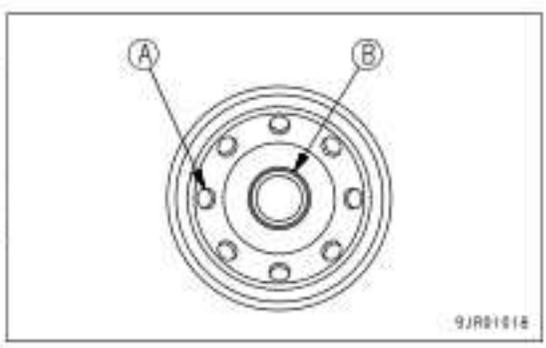
- Container to catch the oil
- Prepare a filter wrench

1. Set the container to catch the fuel under the additional fuel filter cartridge.
2. By using a filter wrench, turn filter cartridge (1) counterclockwise to remove it.
3. After removing the cartridge, turn cup (2) of the water separator installed to the bottom of the cartridge counterclockwise. (This cup is used again.)
4. Install cup (2) to the bottom of the new additional fuel filter cartridge. (When doing this, always replace the O-ring with a new part.)
   - Cup tightening torque: 10 Nm (1.0 kgm , 7.2 lbft)
5. Clean the filter holder, fill the new filter cartridge with clean fuel, coat the packing surface thinly with oil, then install to the filter holder.



NOTICE

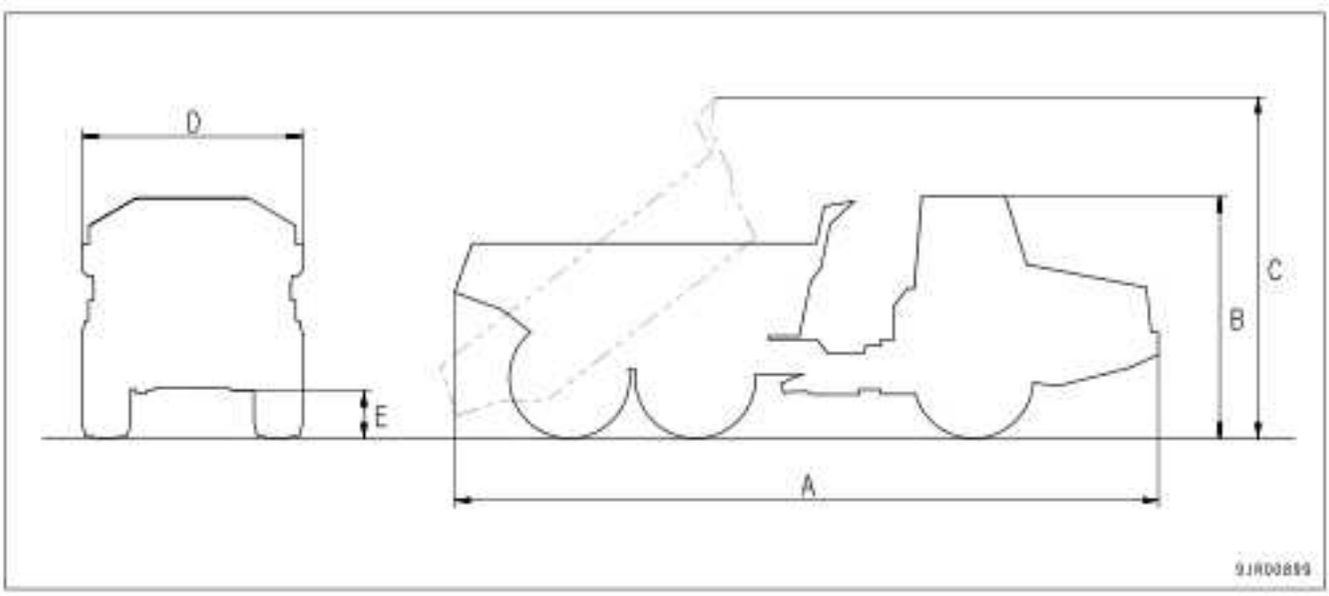
- When adding fuel, do not remove cap (B). Always add fuel from the 8 small holes (A) on the dirty side.
- After adding fuel, remove cap (B) and install the fuel filter.
- Always fill with clean fuel. Be careful not to let any dirt or dust get into the fuel. In particular, center portion is the clean side, so do not remove cap (B) when adding fuel. Be careful not to let dirt or dust get into center portion on the clean side.



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SPECIFICATIONS

	Item			Unit	HM300-1
	Overall weight (unladen weight + max. payload + 1 operator (75kg (165 lb))			kg (lb)	49875 (109974)
	Unladen weight			kg (lb)	22500 (49613)
	Max. payload			kg (lb)	27300 (60197)
	Dump body capacity	Struck		m^3 (cu.yd)	12.9 (16.9)
		Heaped (2 : 1)		m^3 (cu.yd)	16.6 (21.7)
	Dumping speed (at 2000 rpm) (raised)			sec	12
	Engine model			–	Komatsu SAA6D125E-3 diesel engine
	Flywheel horsepower			kW (HP)/rpm	242 (324)/2000
	Max. torque			Nm (kgm, lbft)/rpm	1570 (160, 1157.3)/1400
A	Overall length			mm (ft in)	10095 (33' 1")
B	Overall height			mm (ft in)	3460 (11' 4")
C	Overall height when dumping			mm (ft in)	6445 (21' 2")
D	Overall width			mm (ft in)	2900 (9' 6")
E	Min. ground clearance (bottom of rear axle)			mm (ft in)	510 (1' 8")
	Min. turning radius			mm (ft in)	7960 (26' 1")
	Travel speed	Forward	1st	km/h (MPH)	6.2 (3.9)
			2nd	km/h (MPH)	9.8 (6.1)
			3rd	km/h (MPH)	15.2 (9.4)
			4th	km/h (MPH)	23.9 (14.9)
			5th	km/h (MPH)	37.5 (23.3)
			6th	km/h (MPH)	59.0 (36.7)
		Reverse	1st	km/h (MPH)	7.2 (4.5)
			2nd	km/h (MPH)	17.5 (10.9)



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