TEN00598-02

Operation & Maintenance Manual

DUMP TRUCK

HD785-7

SERIAL NUMBERS 30001 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.

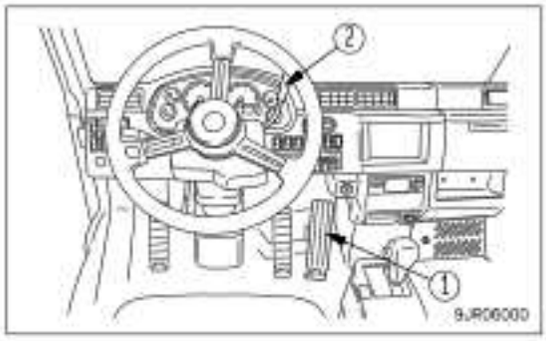
KOMATSU®

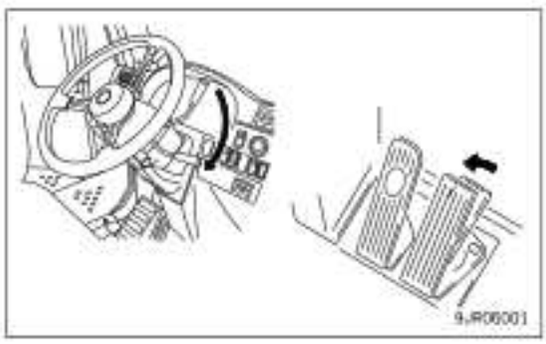
MidWestTech | Komatsu HD785-7 Dump Truck Operation & Maintenance Manual | Publicat... Order the manual at mid-west-tech.com >

FUSES ---- 3- 50
CAR RADIO ---- 3- 54
AIR CONDITIONER ---- 3- 58
HANDLING MACHINES EQUIPPED WITH KOMTRAX Plus ---- 3- 63
OPERATION ---- 3- 66
CHECK BEFORE STARTING ENGINE ---- 3- 66
STARTING ENGINE ---- 3- 91
BREAKING-IN THE MACHINE ---- 3- 93
OPERATIONS, CHECKS AFTER STARTING ENGINE ---- 3- 93
STOPPING ENGINE ---- 3- 94
CHECKS AFTER STOPPING ENGINE ---- 3- 94
MOVING MACHINE OFF (FORWARD, REVERSE), STOPPING ---- 3- 95
SHIFTING GEAR ---- 3-100
TRAVELING DOWNHILL ---- 3-102
STEERING THE MACHINE ---- 3-116
LOADING OPERATIONS ---- 3-116
DUMP OPERATIONS ---- 3-117
PRECAUTIONS FOR OPERATION ---- 3-119
PARKING MACHINE ---- 3-120
CHECKS AFTER COMPLETION OF WORK ---- 3-121
LOCKING ---- 3-121
HANDLING TIRES ---- 3-122
DETERMINING AND MAINTAINING TRAVEL ROAD ---- 3-125
DETERMINING TRAVEL ROAD ---- 3-125
MAINTAINING TRAVEL ROAD ---- 3-125
TRANSPORTATION ---- 3-126
PRECAUTIONS WHEN TRANSPORTING ---- 3-126
STEPS FOR TRANSPORTATION ---- 3-126
METHOD OF SECURING MACHINE ---- 3-126
METHOD OF LIFTING MACHINE ---- 3-128
COLD WEATHER OPERATION ---- 3-131
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-131
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-132
AFTER COLD WEATHER ---- 3-133
LONG-TERM STORAGE ---- 3-134
BEFORE STORAGE ---- 3-134
DURING STORAGE ---- 3-134
AFTER STORAGE ---- 3-134
PRECAUTIONS BEFORE TRAVELING AFTER LONG-TERM STORAGE ---- 3-134
TROUBLESHOOTING ---- 3-135
AFTER RUNNING OUT OF FUEL ---- 3-135
IF TRANSMISSION HAS TROUBLE ---- 3-136
METHOD OF LOWERING DUMP BODY IN EMERGENCY ---- 3-136
METHOD OF TOWING MACHINE ---- 3-137
IF BATTERY IS DISCHARGED ---- 3-141
OTHER TROUBLE ---- 3-145
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINE OF SERVICE ---- 4- 6
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 7

MidWestTech | Komatsu HD785-7 Dump Truck Operation & Maintenance Manual | Pu... Order the manual at mid-west-tech.com >

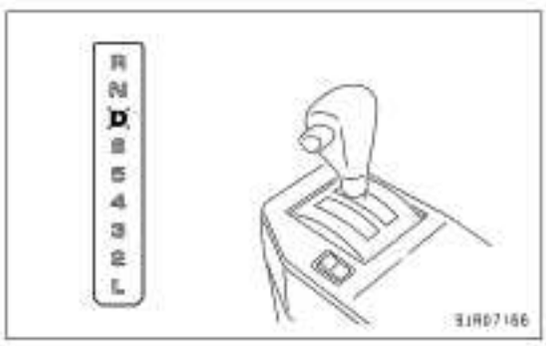
1. Before starting to travel downhill, release accelerator pedal (1) and operate retarder control lever (2) to slow the machine down.



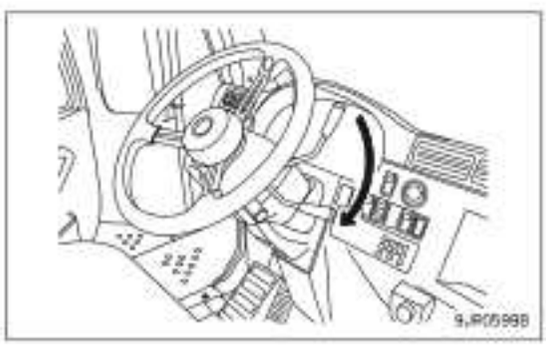


2. Leave the gear shift lever in position D.
   When the machine reduces speed, the transmission will automatically shift down to the appropriate gear range.

   If the condition of the road makes it necessary to travel downhill in 1st, set the gear shift lever to any position except D (6, 5, 4, 3, 2, L).



3. When traveling downhill, operate retarder control lever (2), run the engine at a speed of 1800 to 2200 rpm, and travel so that the retarder brake oil temperature gauge is in the white range.



REMARK
If the pedal is released when traveling downhill, the engine may make a peculiar noise, but there is no problem with quality or durability.

For machines equipped with an exhaust brake, using the exhaust brake can provide more secure braking force for increased safety, and will also improve the durability of the brake.
For details of handling the exhaust brake, see "EXHAUST BRAKE SWITCH (PAGE 3-40)".

MidWestTech | Komatsu HD785-7 Dump Truck Operation & Maintenance Manual | Pu... Order the manual at mid-west-tech.com >

CHECK BRAKING CAPACITY OF FOOT BRAKE

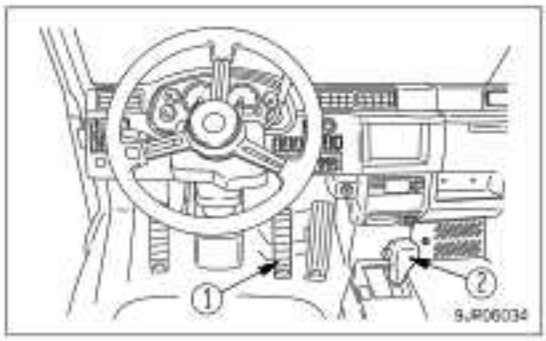
⚠ WARNING

When checking the braking capacity of the foot brake, there is danger that the machine may suddenly move and be damaged or cause serious personal injury. Always do the following.

- **Select a wide, flat area with sufficient distance to make it possible to stop the machine if it suddenly moves.**
- **If the machine suddenly moves when the braking capacity of the foot brake is being checked, reduce the engine speed immediately, move the gear shift lever to the N position, and set the parking brake to the PARKING position to stop the machine.**
- **If inspection is carried out when the dump body pilot lamp is lighted up and the shift indicator is at F1, there is danger of damage to the internal parts of the transmission.**
  When carrying out inspection, seat the dump body securely and check that the body pilot lamp has gone out. In addition, set the gear shift lever to the "D" position and check that the shift indicator shows F2.

Check the braking capacity of the foot brake as follows.

1. Stop the machine on flat ground and depress service brake (1).
2. Set shift lever (2) to the D position, gradually raise the engine speed, and check that the machine does not move even when the engine speed reaches 1570 rpm.
3. Lower the engine speed, set shift lever at N position, and then set parking brake valve lever at PARKING position. If any abnormality is found, ask your Komatsu distributor for repair.



NOTICE

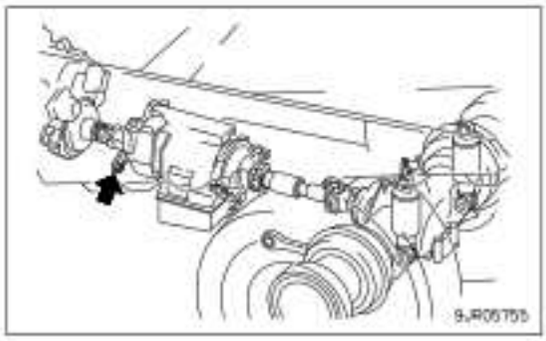
If the dump body is not seated and the parking brake is at "TRAVEL", the speed range is set to F1, even when the gear shift lever is at "D" position.

MidWestTech | Komatsu HD785-7 Dump Truck Operation & Maintenance Manual | Pu... Order the manual at mid-west-tech.com >

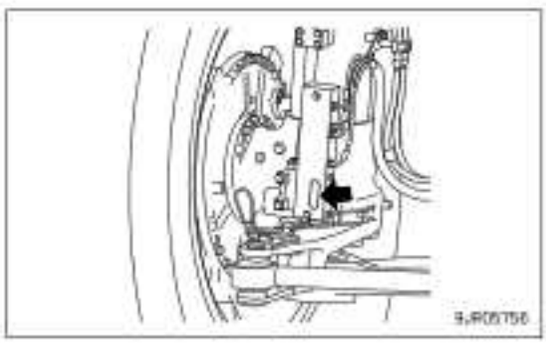
LUBRICATION

1. By using a grease pump, pump in grease through grease fittings marked by arrows.
2. After greasing, wipe off any old grease that was pushed out.

(1) Transmission mount (1 place)

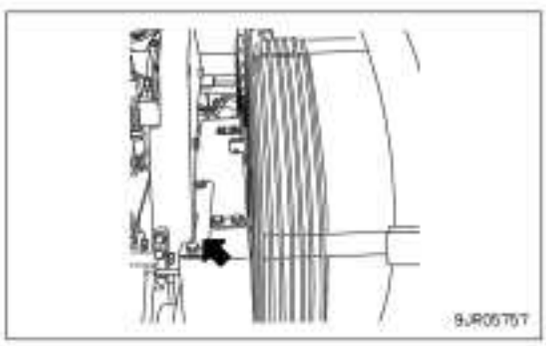


(2) Automatic suspension link (left and right: 1 place each)

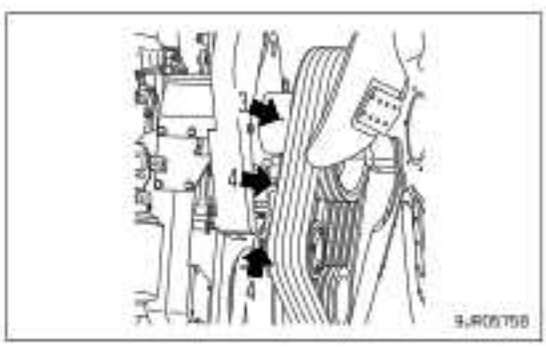


(3) Fan pulley (1 place)
(4) Tension pulley (2 places)

1. Remove the alternator belt cover.
2. Add grease through the grease fitting until grease oozes out from the seal.
3. After greasing, install the cover removed in Step 1.



NOTICE
Do not use air pressure or oil pressure to perform high-pressure greasing.



MidWestTech | Komatsu HD785-7 Dump Truck Operation & Maintenance Manual | Pu... Order the manual at mid-west-tech.com >