TEN00137-09

Operation & Maintenance Manual

DUMP TRUCK

HD325-7
HD405-7

SERIAL NUMBERS

HD325-7001-7025
HD325-7101 and up
HD405-3001-3035
HD405-7101 and up

ecot3

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.

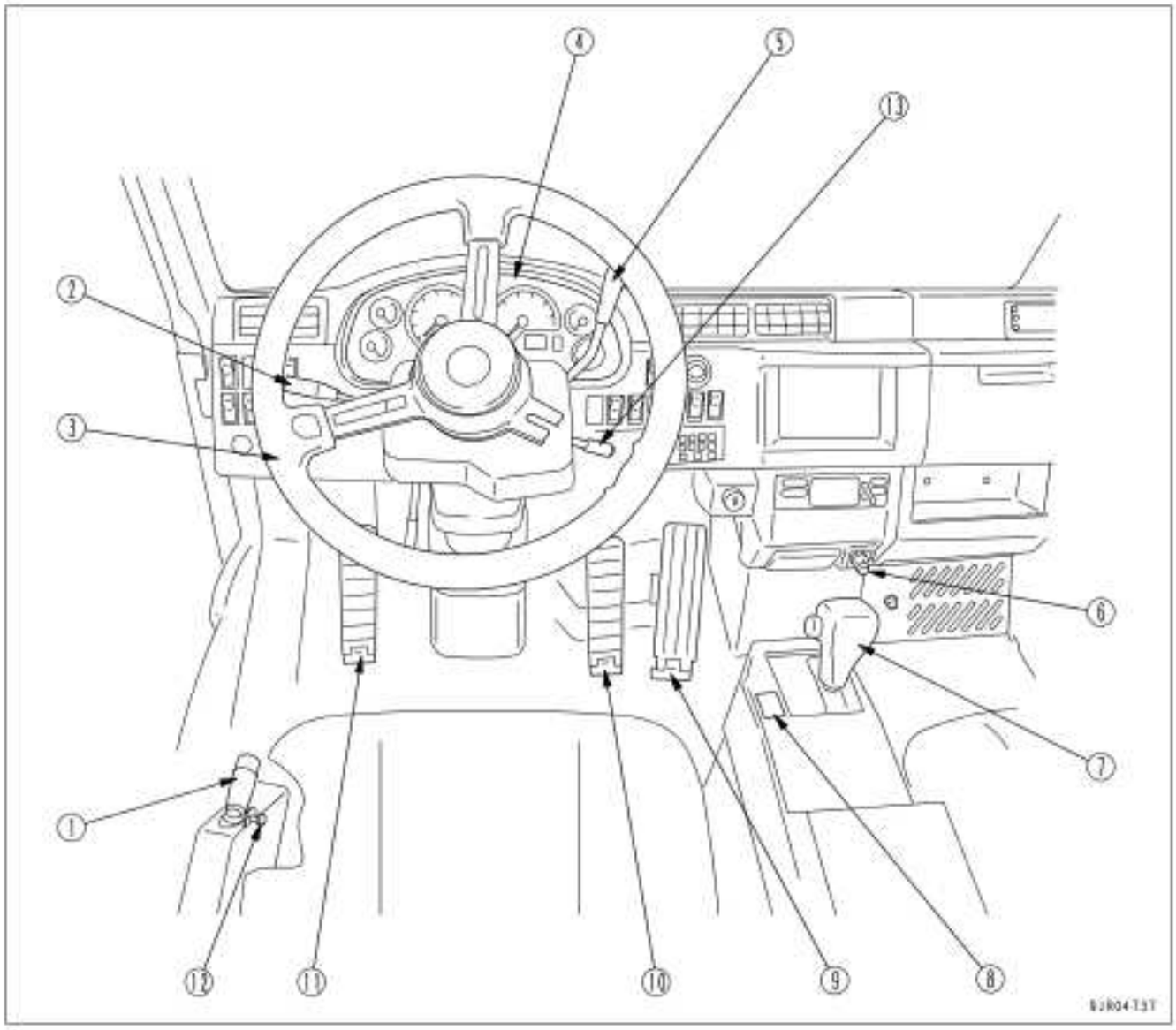
KOMATSU®

MidWestTech | Komatsu HD325-7, HD405-7 Dump Truck Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

FUSES ---- 3- 46
CAR RADIO ---- 3- 49
CAR STEREO ---- 3- 55
AIR CONDITIONER ---- 3- 64
OPERATION ---- 3- 69
CHECK BEFORE STARTING ENGINE ---- 3- 69
STARTING ENGINE ---- 3- 88
OPERATIONS, CHECKS AFTER STARTING ENGINE ---- 3- 90
STOPPING ENGINE ---- 3- 91
CHECKS AFTER STOPPING ENGINE ---- 3- 91
MOVING MACHINE OFF (FORWARD, REVERSE), STOPPING ---- 3- 92
SHIFTING GEAR ---- 3- 97
TRAVELING DOWNHILL ---- 3- 99
STEERING THE MACHINE ---- 3-108
LOADING OPERATIONS ---- 3-108
DUMP OPERATIONS ---- 3-109
PRECAUTIONS FOR OPERATION ---- 3-110
PARKING MACHINE ---- 3-111
CHECKS AFTER COMPLETION OF WORK ---- 3-112
LOCKING ---- 3-112
HANDLING TIRES ---- 3-113
DETERMINING AND MAINTAINING TRAVEL ROAD ---- 3-116
DETERMINING TRAVEL ROAD ---- 3-116
MAINTAINING TRAVEL ROAD ---- 3-116
TRANSPORTATION ---- 3-117
PRECAUTIONS WHEN TRANSPORTING ---- 3-117
STEPS FOR TRANSPORTATION ---- 3-117
METHOD OF SECURING MACHINE ---- 3-117
METHOD OF LIFTING MACHINE ---- 3-118
COLD WEATHER OPERATION ---- 3-121
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-121
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-122
AFTER COLD WEATHER ---- 3-123
LONG-TERM STORAGE ---- 3-124
BEFORE STORAGE ---- 3-124
DURING STORAGE ---- 3-124
AFTER STORAGE ---- 3-124
PRECAUTIONS BEFORE TRAVELING AFTER LONG-TERM STORAGE ---- 3-124
TROUBLESHOOTING ---- 3-125
AFTER RUNNING OUT OF FUEL ---- 3-125
IF TRANSMISSION HAS TROUBLE ---- 3-126
METHOD OF LOWERING DUMP BODY IN EMERGENCY ---- 3-127
METHOD OF TOWING MACHINE ---- 3-129
IF BATTERY IS DISCHARGED ---- 3-133
OTHER TROUBLE ---- 3-136
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINE OF SERVICE ---- 4- 5
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 5
OUTLINE OF ELECTRIC SYSTEM ---- 4- 9

MidWestTech | Komatsu HD325-7, HD405-7 Dump Truck Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

GENERAL VIEW OF CONTROLS AND GAUGES



(1) Dump lever
(2) Lamp switch, Turn signal lever, Dimmer switch
(3) Steering wheel
(4) Machine monitor
(5) Retarder control lever
(6) Cigarette lighter
(7) Gear shift lever
(8) Parking brake switch
(9) Accelerator pedal
(10) Brake pedal
(11) Secondary brake pedal
(12) Dump lever lock knob
(13) Auto retarder (ARSC) set lever (if equipped)

MidWestTech | Komatsu HD325-7, HD405-7 Dump Truck Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

METHOD OF LIFTING MACHINE

When lifting the machine at a port or any other place, always use the following procedure to lift it.

⚠ WARNING

- **The operator carrying out the lifting operation using a crane must be a properly qualified crane operator.**
- **Never raise the machine with any worker on it.**
- **Always make sure that the wire rope is of ample strength for the weight of this machine.**
- **When lifting, keep the machine horizontal.**
- **Always stop the engine and apply the brake before starting the lifting operation.**
- **Never enter the area around or under the machine when it is raised.**

Never try to lift the machine in any posture other than the posture given in the procedure below or using lifting equipment other than in the procedure below.
There is a hazard that the machine may lose its balance.

NOTICE

This method of lifting applies to the standard specification machine.
The method of lifting differs according to the attachments and options installed.
For details of the procedure for machines that are not the standard specification, please consult your Komatsu distributor.

For the weight of the standard specification machine, see "WEIGHT TABLE (PAGE 3-119)".

NOTICE

- **Use protectors to prevent the wire rope from being cut on sharp corners and to prevent the wire rope from cutting into the machine bodywork.**
- **When using a spreader bar, select an ample width to prevent contact with the machine.**

Please consult your Komatsu distributor before carrying out lifting work.

MidWestTech | Komatsu HD325-7, HD405-7 Dump Truck Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

EVERY 1000 HOURS SERVICE

Carry out maintenance for EVERY 250 HOURS and EVERY 500 HOURS SERVICE at the same time.

REPLACE FUEL MAIN FILTER CARTRIDGE

⚠ WARNING

- **After the engine has been operated, all parts are at high temperature, so do not replace the filter immediately. Wait for all parts to cool down before starting the operation.**
- **High pressure is generated inside the engine fuel piping system when the engine is running.**
  When replacing the filter, wait for at least 30 seconds after stopping the engine to let the internal pressure go down before replacing the filter.
- **Do not bring any fire or flame close.**

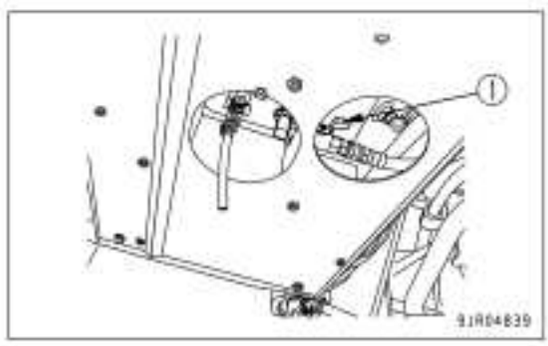
NOTICE

- **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 carrying out 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.**

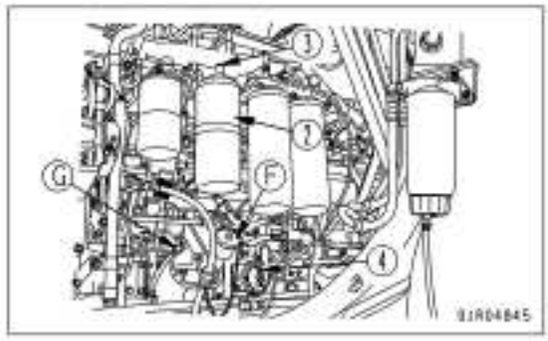
- Prepare a filter wrench

After replacing the fuel pre-filter cartridge, replace the fuel main filter cartridge.

1. Close supply valve (1) of the fuel tank.
2. Set the container to catch the fuel under the filter cartridge.



3. Using a filter wrench, turn filter cartridge (2) counterclockwise to remove it.
4. Clean the filter holder, coat the packing surface of the new filter cartridge thinly with oil, then install the filter cartridge to the filter holder.



NOTICE

Do not add fuel to fuel main filter cartridge (2).

MidWestTech | Komatsu HD325-7, HD405-7 Dump Truck Operation & Maintenance Ma... Order the manual at mid-west-tech.com >