CEAM030600

Operation & Maintenance Manual

Dump Truck

960E-2KT

Serial Numbers A50089 & 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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INTRODUCTION
FOREWORD 1-2
ABOUT THIS MANUAL 1-3
WARNINGS 1-4
California Proposition 65 Warnings 1-4
ALERTS 1-5
TRUCK MODEL ILLUSTRATION 1-6
NON-OEM PARTS IN CRITICAL SYSTEMS 1-7
STANDARD CHARTS AND TABLES
GENERAL INFORMATION 2-2
Effect Of Special Lubricants 2-2
Suggested Sources For Rust Preventive Grease 2-2
STANDARD TIGHTENING TORQUES 2-3
Class 10.9 Capscrews And Class 10 Nuts 2-3
SAE Grade 5 And Grade 8 Capscrews 2-4
SAE Grade 9 Capscrews 2-5
T-Bolt Clamps 2-5
Split Flange Clamps 2-6
Flared Tube And Hose Fittings 2-6
JIC 37° Swivel Nuts 2-7
Pipe Thread Fittings 2-8
O-Ring Boss Fittings 2-9
O-Ring Face Seal Fittings 2-10
CONVERSION MULTIPLIERS 2-11
Metric To English 2-11
English To Metric 2-12
Temperature Conversions 2-13
GENERAL SAFETY
GENERAL SAFETY 3-2
Safety Rules 3-2
Truck Safety Features 3-2
Clothing And Personal Items 3-2
Unauthorized Modification 3-2
Leaving The Operator's Seat 3-2
Mounting And Dismounting 3-2
Fire Extinguishers And First Aid Kits 3-3
Precautions For High Temperature Fluids 3-3
Asbestos Dust Hazard Prevention 3-3
Fire Prevention 3-3
ROPS Precautions 3-3
Preventing Injury From Work Equipment 3-4
Precautions For Optional Attachments 3-4
Precautions When Starting The Machine 3-4
PRECAUTIONS FOR TRUCK OPERATION 3-5
Safety Is Thinking Ahead 3-5
Safety At The Worksite 3-5
Preparing For Operation 3-5
Ventilation For Enclosed Areas 3-5
Mirrors, Windows, And Lights 3-5
Before Starting The Engine 3-5
Seat Belts And Tethers 3-5
Emergency Egress Ladders 3-6
OPERATING THE MACHINE 3-7
General Information 3-7

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Starting The Engine 3-7
Traveling In The Machine 3-7
Traveling In Reverse 3-7
Traveling On Slopes 3-8
Traveling On Snow 3-8
Traveling Near High Voltage Cables 3-8
Traveling On Loose Ground 3-8
Ensuring Good Visibility 3-8
Avoid Damage To The Dump Body 3-8
Safe Parking Of The Machine 3-9
Loading The Machine 3-9
Dumping The Machine 3-9
Towing The Machine 3-9
EXTERIOR LIGHTING 3-10
Fog Lights 3-10
Headlights 3-10
Mirror Mounted Backup Lights 3-10
Ladder Lights 3-10
Brake Light 3-10
Retard Light 3-11
Clearance/Turn Signal Lights 3-11
Retard Lights 3-11
Brake Lights 3-11
Backup Alarm 3-11
HID Backup Lights 3-11
LED Backup Lights 3-11
PRECAUTIONS FOR MAINTENANCE 3-12
BEFORE PERFORMING MAINTENANCE 3-12
Securing The Dump Body 3-12
DURING MAINTENANCE 3-13
Warning Tag 3-13
Proper Tools 3-13
Attachments 3-13
Working Under The Machine 3-13
Keeping The Machine Clean 3-13
Adding Fuel Or Oil To The Machine 3-13
Radiator Coolant Level 3-14
Use Of Lighting 3-14
Handling High Pressure Hoses 3-14
Precautions With High Pressure Oil 3-14
Maintenance Near High Temperatures And High Pressures 3-14
Rotating Fan And Belts 3-14
Waste Materials 3-14
Use Of Tie-Off Anchor During Maintenance 3-14
Handling Tires 3-15
Tire Maintenance 3-15
Storing Tires After Removal 3-15
Battery Hazard Prevention 3-16
Jump Starting With Jumper Cables 3-16
Jump Starting With Receptacles 3-17
WHEN REPAIRS ARE NECESSARY 3-18
Observe The Following Precautions 3-18
SPECIAL PRECAUTIONS 3-19
Preliminary Procedures Before Welding Or Performing Maintenance 3-19

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Engine Shutdown Procedure Before Welding or Performing Maintenance 3-19
Before Welding On The Machine, Obey The Following Guidelines: 3-19
WARNING AND CAUTIONS
GENERAL INFORMATION 4-2
PIN PLATE 4-2
GRADE SPEED CHART 4-3
GREASE POINTS 4-3
MACHINE SAFETY 4-4
KEY SWITCH 4-6
OIL FILL AND CHECK 4-6
HIGH PRESSURES 4-7
BATTERIES 4-9
HIGH VOLTAGE 4-10
WELDING 4-11
EMERGENCY DUMPING 4-11
AUTOMATIC LUBRICATION FILL 4-12
ROPS/FOPS 4-12
TOWING 4-12
LUBRICATION CHART 4-13
OPERATING INSTRUCTIONS
PREPARING FOR OPERATION 5-2
Safety Is Thinking Ahead 5-2
Walk Around Inspection 5-2
TRUCK OPERATION 5-6
ENGINE START-UP SAFETY 5-6
After Engine Has Started 5-6
MACHINE OPERATION SAFETY PRECAUTIONS 5-7
Machine Operation On The Haul Road 5-8
Starting On A Grade With A Loaded Truck 5-8
Retarding On A Grade 5-8
Passing 5-9
Loading 5-9
Overload Speed Limit Function 5-9
Dumping 5-9
Lowering The Dump Body (When Dumping On Flat Ground) 5-10
Lowering The Dump Body (When Dumping Over A Berm Or Into A Crusher) 5-11
TROLLEY OPERATING INSTRUCTIONS 5-11
Operating in Trolley Line Mode 5-11
Getting on Line 5-12
Operating on Trolley 5-12
Getting off Line 5-13
Line Status Signals 5-13
Trolley Disconnect 5-13
Traffic Consideration for Trolley Line Operation 5-14
Approaching Slow Moving Vehicles in a Trolley Assisted Truck 5-14
Operating Slow Moving Vehicles on Trolley Assist Ramps 5-14
Truck Failure While on Trolley 5-14
SUDDEN LOSS OF ENGINE POWER OR LOSS OF DRIVE SYSTEM FUNCTION 5-15
EMERGENCY STEERING SYSTEM 5-15
Operation 5-15
Pre-Operation Testing 5-15
Additional Guidelines 5-16
FUEL DEPLETION 5-16
SAFE PARKING PROCEDURES 5-16

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NOTE: *The green LED light in the hazard light switch, head light switch and the ladder light switch will be illuminated when battery power is connected to the truck. The LED lights in the other switches will illuminate when the key switch is turned to the ON position.*

This symbol when it appears on an indicator or control identifies that this indicator or control is NOT used.



This symbol identifies a rotary control or switch. Rotate the knob clockwise or counterclockwise for functions.



This symbol identifies a switch used to test or check a function. Press the switch on the side near the symbol to perform the test.



Key Switch



Key Switch (1, Figure 6-10 PANEL GAUGES, INDICATORS, AND CONTROLS, page 6-17) is a four-position (ACC, OFF, RUN, START) switch. The ACC position is not currently used .

Starting

When the switch is rotated one position clockwise, it is in the RUN position and all electrical circuits except START are activated.

1. With the selector switch in PARK, rotate key switch fully clockwise to the START position, and hold this position until the engine starts. The START position is spring-loaded to return to RUN when the key is released. If the engine is equipped with a prelube system, a noticeable delay will occur before engine cranking begins.
2. After engine has started, place rest switch (5) in the OFF position, which will de-activate the rest mode of operation. Refer to the discussion of rest switch later in this chapter.

NOTE: *The electric cranking motors have a 30 second time limit. If the 30 second limit is reached, cranking will be prohibited for two minutes. After two minutes, cranking will be allowed. If the 30 second limit is reached seven consecutive times, the key switch must be turned to the OFF position. This will allow the interface module to power down and reset, which requires seven minutes to complete.*

Speed Control Switch

Speed control switch (2) is a rocker switch. When in the ON position, the speed control lever on the steering column can be used as a "cruise control" function.



Traction Control Switch

Traction control switch (3) is a rocker switch. When in the OFF position, the traction control feature is turned off.



This can be used in dry operating conditions when the chance of slipping or sliding is minimal so that the drive system will always put maximum power to the ground.

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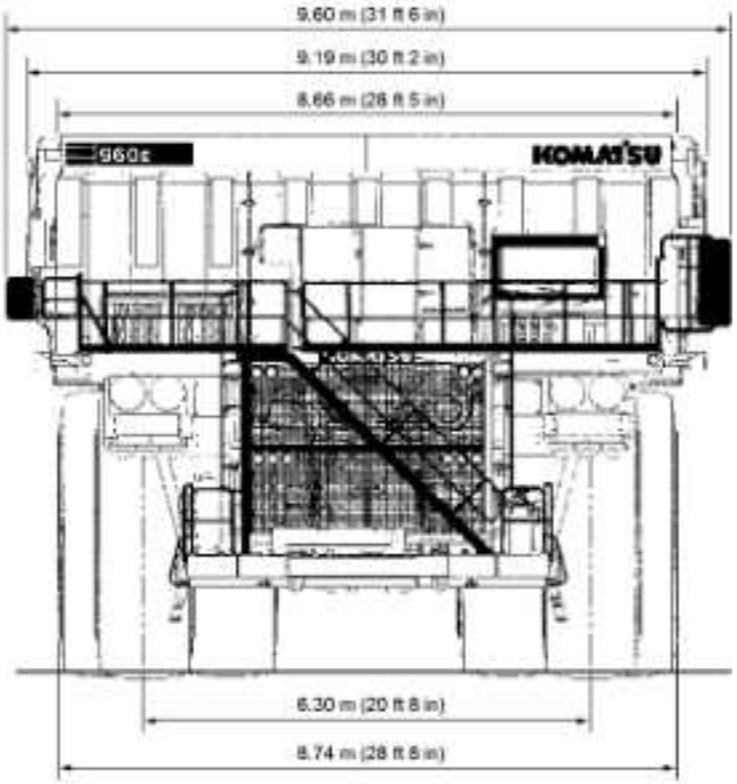
EVERY 1500 HOUR LUBRICATION AND MAINTENANCE INSPECTION A.6-0000071605

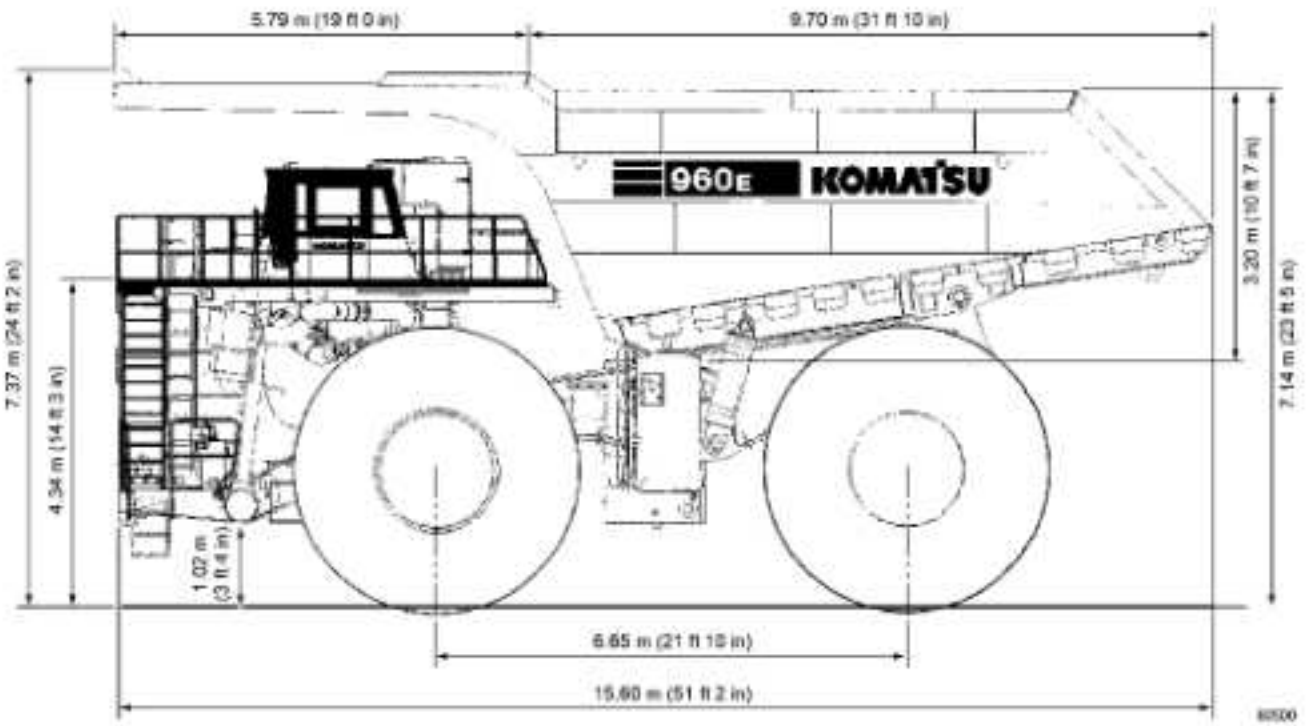
NOTE: *Maintenance for every 10, 250, 500 & 1,000 hour Lubrication and Maintenance Checks must also be performed at this time. "Lube Key" references are to the lubrication chart.*

EVERY 1500 HOUR MAINTENANCE	
Item	**Task**
TRACTION ALTERNATOR	• Check the generator fastening to the supporting frame and retorque, if necessary. • Check the generator bolt connections on the diesel engine and retorque, if necessary. • Check the generator and support structure for an external damage or cracking. Repair as necessary. • Inspect the bearing seal for excess lubricant.
IGBT CONTROL BOX	• Using compressed air blow out the cabinet radiator from the rear. • Grease pump motor's DE and NDE bearings until a small amount comes out the drains. ***NOTE:*** *Pump Motor grease is in transition to Mobilith SHC100. Verify the nameplate for correct type before greasing.* • Visually inspect pump for damage or leakage. • Using compressed air clean the transformer (< 100psi, oil and water free). If compressed air is not available then vacuum transformer to remove excess buildup of dirt and debris.
GRID BOX	• Regrease DE and NDE motor bearings. Add grease until small amount comes out the drain. ***NOTE:*** *Grid blower shaft bearings and coupling are lubricated from the vendor with Mobolith AW2 and should be relubricated with the same or some equivalent.*
MAIN BLOWER	Regrease DE and NDE motor bearings.Add Mobilith SHC100 until small amount comes out drain. ***NOTE:*** *Always confirm correct grease and do not mix. Transitioning from Chevron SRI-2 to Mobilith SHC100.*

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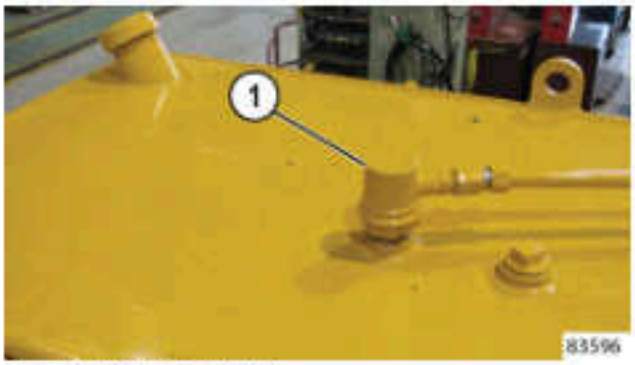
Length ..... 15.6 m (51 ft. 2 in.)
Width ..... 9.60 m (31 ft. 6 in.)
Height with Canopy ..... 7.37 m (24 ft. 2 in.)
Height with Dump Body Up ..... 15.0 m (49 ft. 2 in.)





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It is not necessary to remove the tank from the truck for cleaning of sediment, however rust and scale on the walls and baffles may require complete tank removal. Prior to a cleaning procedure of this type, all vents, fuel gauge, and hose connections should be removed and temporarily sealed. After all scale, rust, and foreign material has been removed, the temporary plugs can be removed. A small amount of light oil must be sprayed into the tank to prevent rust if the tank is to remain out of service. All openings should be sealed for rust prevention.

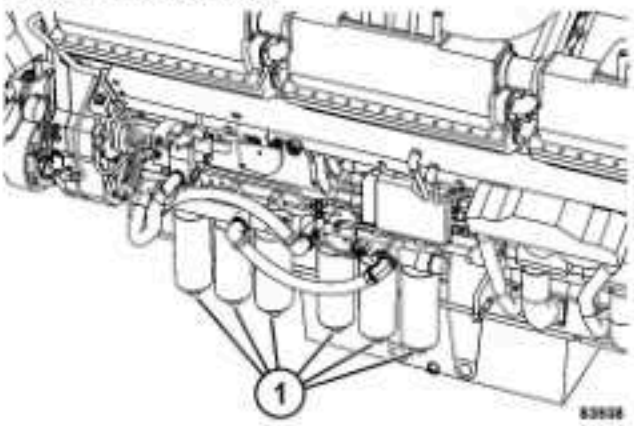


1. Fuel Tank Breather

Figure 7-8 FUEL TANK BREATHER

Remove breather (1, Figure 7-8 FUEL TANK BREATHER, page 7-7) and clean in solvent. Dry with pressurized air and reinstall.

Fuel Filter Service



1. Water Drain Valves

Figure 7-9 WATER SEPARATOR DRAIN

Open water drain valves (1, Figure 7-9 WATER SEPARATOR DRAIN, page 7-7) to remove water from the fuel/water separators daily.

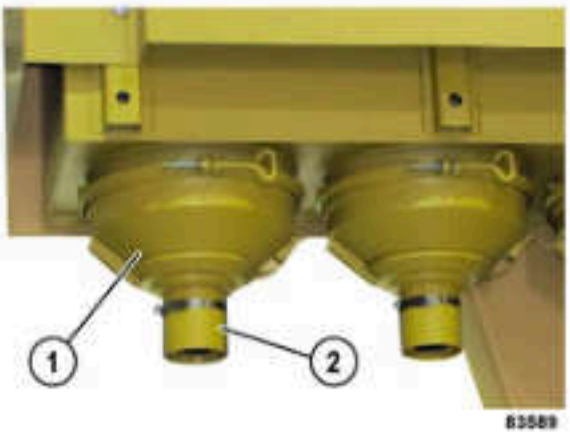
INTAKE AIR CLEANER SERVICE E.5-0000051600

⚠ CAUTION

- **The engine must be turned off before servicing the air cleaner assemblies or opening the engine air intake system. Never start the engine with the filter elements removed. Serious engine damage can result.**

During operation or after the engine has been turned off, observe the air filter restriction gauges mounted on the overhead panel in the cab. When a gauge shows maximum restriction, filter service is required.

To service the intake air cleaner system, perform the following:



1. Dust Cup 2. Vacuator™ Valve

Figure 7-10 DUST CUP LOCATION

1. Inspect and empty dust cups (1, Figure 7-10 DUST CUP LOCATION, page 7-7). Never allow the dust level to build up to the tube (precleaner) chamber.

NOTE: *On dust cups with the Vacuator™ valve, dust cup service is minimal; just check the valve to see that it is not inverted, damaged or plugged. If it is damaged, replace it immediately.*

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EXTERIOR LIGHTING A.3-0000072884



1. Fog Lights
2. Headlights
3. Ladder Lights
4. Mirror Mounted Backup Lights
5. Brake Lights
6. Retard Lights
7. Clearance/Turn Signal Lights

Figure 3-2 FRONT LIGHTS

Fog Lights

Fog lights (1, Figure 3-2 FRONT LIGHTS, page 3-10) illuminate when the operator actuates the fog light switch located on the dash. The fog lights are low beam, low level lights used to illuminate a foggy work area.

Headlights

Headlights (2) consist of high beam and low beam headlights. Low beam headlights illuminate when the operator actuates the headlight switch. The multi-function lever must be in the low beam position for the low beam headlights to work. High beam headlights illuminate when the operator actuates the high beam function on the multi-function lever. The headlight switch must be on for the high beam headlights to work. These lights are functional regardless of key switch position.

Mirror Mounted Backup Lights

Mirror mounted backup lights (4) illuminate when the operator moves the directional control lever to REVERSE. The lights can also be activated by using the backup light switch in the cab. Using the switch turns the lights on regardless of directional control lever position.

Ladder Lights

Ladder lights (3) illuminate the diagonal ladder steps when the operator actuates the light switch at the base of the ladder. These lights can also be activated by using the ladder light switch in the cab.

Brake Light

Brake light (5) will illuminate when the operator depresses the brake pedal. The red light signals to traffic that the truck is stopping.

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