CEAM006700

Operation & Maintenance Manual



730E

DUMP TRUCK

SERIAL NUMBER A30181 - A30211

KOMATSU®

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SAFETY . . . . . **SECTION 2**

Safety records of most organizations will show that the greatest percentage of accidents are caused by unsafe acts of persons. The remainder are caused by unsafe mechanical or physical conditions. Report all unsafe conditions to the proper authority. These safety rules are provided as a guide for the Komatsu truck operator.
However, local conditions and regulations may add many more to this list.

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OPERATION . . . . . **SECTION 3**

This portion of the manual covers Identification, location,and operation of the controls, switches, and indicators in the Operator's Cab and use / function of these controls, switches, and indicators.

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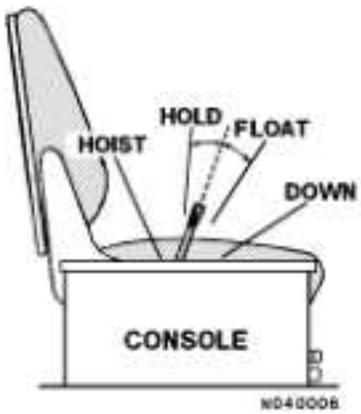
HOIST CONTROL LEVER

The hoist control (3, Figure 3-4) is a four position hand-operated lever located between the operator seat and the Center Console.

To Raise dump body:

1. Pull the lever to the rear to actuate hoist circuit. (Releasing the lever anywhere during "hoist up" will place the body in "hold" at that position.)
2. Raise engine RPM to increase hoist speed.
3. Reduce engine RPM as the last stage of the hoist cylinders begin to extend and then let the engine go to low idle as the last stage reaches half-extension.
4. Release hoist lever as the last stage reaches full extension.
5. After material being dumped clears the body, lower the body to frame.

Refer to "OPERATING INSTRUCTIONS, DUMPING" for more complete details concerning this control.



To lower body:

Move hoist lever forward to "down" position and release. Releasing the lever places hoist control valve in the "float" position allowing the body to return to frame.

ASH TRAY

The Ash Tray(4, Figure 3-4) is used for extinguishing and depositing smoking materials. DO NOT use for flammable materials, such as paper wrappers.
Be certain that all fire ash is extinguished!

LIGHTER

The LIGHTER (5, Figure 3-4) may be used for lighting cigars/cigarettes.
Always use CAUTION with smoking materials!.

This socket may also be used for a 12 VDC power supply.

L.H. WINDOW CONTROL SWITCH

This switch (6, Figure 3-4) is spring-loaded to the "OFF" position. Pushing the front of the switch raises the left side cab window. Pushing the rear of the switch lowers the window.

R.H. WINDOW CONTROL SWITCH

This switch (7, Figure 3-4) is spring-loaded to the "OFF" position. Pushing the front of the switch raises the right side cab window. Pushing the rear of the switch lowers the window.

ENGINE SHUTDOWN SWITCH



This switch (8, Figure 3-4) is used for engine shutdown by depressing this button and holding it until engine stops.

Use this switch to shutdown engine if engine does not shutdown by turning off keyswitch, or to shutdown engine without turning off 24 VDC electric circuits.

There is also a ground level engine shutdown switch on the left front frame rail behind the ladder.

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100 HOUR LUBRICATION AND MAINTENANCE CHECKS

Maintenance for every 10 & 50 hour Lubrication and Maintenance Checks should also be carried out at this time.

Truck Serial Number _____
Site Unit Number _____
Date: _____ Hour Meter _____
Name of Service Person _____

1.REAR HYDRAIR® SUSPENSION PIN JOINTS - (If not equipped with automatic lube system) - Add one or two applications of grease to each grease fitting for the upper and lower suspension mount pins. Use Lube Key "D".

2. BODY HINGE PINS - (If not equipped with automatic lube system) - Add one or two applications of grease to each grease fitting. Lube Key "D" for the body hinge pins.

3. HOIST CYLINDER - (If not equipped with automatic lube system) - Add one or two applications of grease to each grease fitting for bearing and pivots. Use Lube Key "D".

4. ANTI-SWAY BAR - (If not equipped with automatic lube system) - Add one or two applications of grease to each grease fitting for pin and bearings. Use Lube Key "D".

5. HYDRAULIC OIL FILTERS - Change filter elements after the initial 100 hours of operation; then at 250 hours; and then each 500 hours of operation thereafter.

COMMENTS	CHECKED	INITIALS

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SPECIFICATIONS

These specifications are for the standard 730E Dump Truck. Customer Options may change this listing.

ENGINE

Komatsu SSA16V150

Number of Cylinders	16
Operating Cycle	4-Stroke
Rated Brake HP	2000 HP (1492 kW) @ 1900 RPM
Flywheel HP	1860 HP (1388 kW) @ 1900 RPM
Weight (Wet)	11,670 lbs. (5717 kg)

ELECTRIC DRIVE SYSTEM

STATEX III w/Fuelsaver . . . . . AC/DC Current

Alternator	General Electric GTA - 22
Motorized Wheels	General Electric 788*
Standard Gear Ratio*	26.825:1
Maximum Speed	34.6 MPH (55.7 km/h)

* NOTE: Wheel motor application depends upon GVW, haul road grade, haul road length, rolling resistance, and other parameters.
KOMATSU & G.E. must analyze each job condition to assure proper application.

DYNAMIC RETARDING

Electric Dynamic Retarding	Standard
Maximum Retarding	3700 HP (2759 kW)
With Continuous Rated (18 resistor) Blown Grids	
2-Speed Overspeed & Extended Range Retarding	
Reverse Retarding	

BATTERY ELECTRIC SYSTEM

Batteries -	bumper-mounted in polyethylene boxes
	Four 12 Volt Batteries in Series/Parallel
	220 Ampere-Hour Capacity
	With Disconnect Switch
Alternator	24 Volt, 220 Ampere Output
Lighting	24 Volt
Starters (2)	24 Volt

SERVICE CAPACITIES

	U.S. Gallons	Liters
Crankcase (Includes lube oil filters)		
Komatsu	59.0	223
Cooling System	108	409
Fuel	850	3217
Hydraulic System	193	731
Wheel Motor Gear Box	10.5/Wheel	40/Wheel

HYDRAULIC SYSTEM

Pumps:	
Hoist (gear type)	135.6 GPM (513 l/min.)
	at 2500 psi (17240 kPa)@ 1900 RPM
Steering/Brake (vane)	62 GPM (235 l/min.)
	at 2750 psi (18 960 kPa) @ 1900 RPM
Relief Pressure- Hoist	2500 psi (17.2 MPa)
Relief Pressure- Steering	4000 psi (27.5 MPa)
Hoist	Two 3-Stage Hydraulic Cylinders
Tank	Vertical - Cylindrical, Non-Pressurized
Service Capacity	193 U.S. Gal. (731 Liters)
Filtration	In-line replaceable elements
Suction	Single, Full Flow, 100 Mesh
Hoist & Steering High Pressure Filters	
	Dual, Full Flow, 7 Micron
	Beta 12 rating = 200

SERVICE BRAKES

Actuation	All Hydraulic - Caliper/Disc	
	(Front)	(Rear)
Type	Single Disc	Dual Disc
	Wheel Speed	Armature Speed

STEERING

Turning Circle (SAE)	92 ft. (28.0 m)

Twin hydraulic cylinders with accumulator assist to provide constant rate steering.

Emergency Power Steering provided by Accumulators

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