

HITACHI

Operator's Manual EH3500ACII Rigid Dump Truck

NDEX MACHINE NUMBERS

SAFETY

SAFETY SIGNS

COMPONENTS NAME

G ON/OFF MACHINE

EMERGENCY EXIT

OPERATOR'S STATION

BREAK-IN

OPERATING ENGINE

DRIVING MACHINE

OPERATING MACHINE

MAINTENAN

ITENANCE UNDER SPECIAL ENVIRONMENTAL CONDITIONS

STORAGE

TROUBLESHOOTING

SPECIFICATIONS

INDEX

MACHINE NUMBERS1	Beware of Asbestos and Silicon Dust and Other	
SAFETY S-1	Contamination	
	Prevent Battery Explosions	
Recognize Safety InformationS-1	Service Air Conditioning System Safely	
Understand Signal WordsS-1	Handle Chemical Products Safely	
Follow Safety InstructionsS-2	Dispose of Waste Properly	
Prepare for EmergenciesS-2	Precautions for Communication Terminal	.S-28
Wear Protective ClothingS-3	SAFETY SIGNS	S-20
Protect Against NoiseS-3		
Inspect MachineS-3	COMPONENTS NAME	1-1
General Precautions for CabS-4	Components Name	1-1
Use Handholds and StepsS-4	GETTING ON/OFF MACHINE	1 7
Operator's VisibilityS-5		
Adjust Operator's SeatS-6	Getting ON/OFF Machine	I −∠
Fasten Your Seat BeltS-6	EMERGENCY EXIT	1-3
Move and Operate Machine SafelyS-7	Emergency Exit	1-3
Handle Starting Aids SafelyS-7	Evacuating in Case of Fire	
Operate Only from Operator's SeatS-8	•	
Jump StartingS-8	OPERATOR'S STATION	
Avoid Injury Caused by High Tension Electric ShockS-9	Cab Features	
Investigate Job Site BeforehandS-9	Monitor Display	
Provide Signals for Jobs Involving Multiple MachinesS-9	How to Use Screens	
Drive Machine SafelyS-10	Displaying Starting Check Screen	
Wheel MaintenanceS-11	How to Use Key Pad	
Drive on Snow SafelyS-12	Basic Screen	1-9
Avoid Injury from Rollaway AccidentsS-12	Speedometer	
Avoid Injury from Back-Over AccidentsS-13	Odometer (2)	. 1-10
Keep Person Clear from Working AreaS-13	Tachometer (3), Shift Lever Position Indicator (4)	. 1-10
Avoid TippingS-14	Engine Oil Pressure Gauge	
Protect Against Falling Stones and Debris	Coolant Temperature Gauge	. 1-11
Operate with CautionS-15	Wheel Motor Temperature Gauge	
Avoid Power LinesS-15	Brake/Steering Oil Pressure Gauge	
Precautions for LightningS-16	Engine Related Warning Indicators	
Avoid OverloadingS-16	Engine Warning Indicator	
Protect Against Flying DebrisS-17	Engine Oil Pressure Warning Indicator	
Park Machine SafelyS-17	Engine Overheat Warning Indicator	
Prevent Unintended Machine MovementS-18	Engine Coolant Level Warning Indicator	
Handle Fluids Safely – Avoid FiresS-18	Alternator Warning Indicator	. 1-14
Practice Safe MaintenanceS-19	Air Cleaner Restriction Warning Indicator	. 1-14
Warn Others of Service WorkS-20	Stop Valve Warning Indicator	. 1-14
Support Machine ProperlyS-20	Grid Dry Warning Indicator	. 1-14
Stay Clear of Moving PartsS-20	Driving Related Warning Indicators	
Prevent Parts from FlyingS-21	Traction Fault Warning Indicator	
Prevent BurnsS-21	Drive Shut Down Warning Indicator	
Replace Rubber Hoses PeriodicallyS-22	Wheel Motor Temperature Warning Indicator	.1-16
Avoid High-Pressure FluidsS-22	Wheel Motor & Alternator Blower Fault Warning	
Prevent Fires	Indicator	
Evacuating in Case of FireS-24	Electric Brake Warning Indicator	. 1-17
Beware of Exhaust FumesS-24	Parking Brake Warning Indicator	. 1-17
Precautions for Welding and GrindingS-25	Load/Dump Brake Warning Indicator	
Avoid Heating Near Pressurized Fluid LinesS-25	Engine Stop Warning Indicator	
Avoid Applying Heat to Lines Containing Flammable	Central Warning Indicator	. 1-18
FluidsS-25	AC Drive System Maintenance Required Warning	
Precautions for Handling Accumulator and Gas	Indicator	
DamperS-26	Hydraulic Related Warning Indicators	
Remove Paint Before Welding or HeatingS-26	Hydraulic Oil Overheat Warning Indicator	.1-20

Steering Oil Pressure Warning Indicator	1-20	Rear Axle Inside Maintenance Light Indicator (24)	1-45
Auto-Lubrication Warning Indicator	1-20	AC Drive System Maintenance Switch (25)	1-45
Hydraulic Oil Level Warning Indicator	1-21	Dome Light Switch	1-46
Dump Body Up Indicator	1-21	Sun Visor	1-46
Hoist Lever Position Warning Indicator	1-21	Air Conditioner	1-47
Light Indicators	1-22	Designations and Functions of the Control Panel	1-48
Rear Light Indicator	1-23	Cooling	1-49
Front Tire Light Indicator (Optional)	1-23	Heating	1-50
Head Light/High Beam Indicator	1-23	Dehumidifying and Heating	1-50
Miscellaneous Indicators	1-23	Defrosting	1-50
Turn Signal/Hazard Indicator	1-23	Blower Operation Without Cooling or Heating	1-51
Fuel Gauge	1-24	Ventilation of the Cab	1-51
Load Meter	1-24	AM/FM Radio Operation	1-52
Hour Meter	1-24	Controls on the Radio	1-52
Clock	1-24	Tuning Procedure	
Alarm Occurrence Screen	1-25	Station Presetting Procedure	1-52
Clock Setting	1-26	Sound Adjustment	1-53
Time Adjusting	1-27	Digital Clock Setting Procedure	
Head Lights/Front Combination Lights/Horns		Camera Monitor	
Side Lights		How to Use Camera Monitor	
Rear Lights		Control Panel Designation and Function	
Maintenance Lights		Adjusting Operator's Seat	
Steering Wheel		Seat Incline Adjustment	
Horn Switch		Seat Fore-Aft Adjustment	
Turn Signal/High Beam Lever Switch		Armrest Angle Adjustment	
Hazard Warning Lamp Switch		Armrest Height Adjustment	
Tilt/Telescope Steering Wheel		Seat/Backrest Fore-Aft Adjustment	
Accelerator Pedal		Seat Height Adjustment	
Service Brake Pedal		Absorber Adjusting	
Electric Brake Pedal		Seat/Armrest/Backrest Fore-Aft Adjustment	
Parking Brake		Backrest Adjustment	
Center Console		Headrest Adjustment	
Shift Lever (1)		Adjusting Trainer's Seat	
Dump Override Switch (2)		Weight adjustment	
Load/Dump Brake Switch (3)		Seat Belt	
Hoist Lever		Seat Belt	
Hoist Lever Functions		Cab Door Lock	
Console Panel		Opening/Closing Cab Left Door	
Cruise Control/Auto Retard Main Switch (1)		Electrical Equipment Box (Behind Cab)	
Cruise Control/Auto Retard Speed Setting		Relays	
Switch (2)	1-41	Fuses	
Grid Dry Switch (4)		Deck Upper Relay Box	
AC Drive Shut Down Switch (5)		Relays	
Parking Brake Switch (6)		Relay Box 3	
Emergency Engine Stop Switch (10)		Relay Box Optional	
Key Switch (11)		Relay Box 2	
Headlight Switch (12)		Fuse Box 3	
Front Tire Light Switch (15) (Optional)			
Rear Light Manual Switch (16)		BREAK-IN	2-1
Ladder & Deck Light Switch (17)		Observe Machine Closely	2-1
Wiper/Washer Switch (18)		Every 10 Hours or Each Shift	
AC Drive Fault Reset Switch (19)		After the First 50 Hours	2-1
Cigar Lighter (20)		OPERATING ENGINE	ე_1
Dimmer Switch (21)			
Buzzer Deactivation Switch (22)		Inspect Machine Daily Before Starting	
Engine Room Maintenance Light Indicator (23)		Before Starting Engine	
Engine noom maintenance Light mulcator (25)	1-43	System Check	3-3

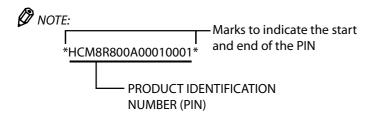
Starting Engine in Normal Temperature	3-4	Replace Full-Flow Filter Element	7-37
Starting Engine in Cold Weather		Replace Line Filter Element	7-39
Check Instruments After Starting	3-6	Change Hydraulic Oil	7-41
Using Booster Batteries	3-7	Replace Suction Filter	7-41
Stopping Engine	3-9	Replace Tank Air Breather Element	7-44
DRIVING MACHINE	<i>1</i> _1	Check Hoses and Lines	7-45
		E. Fuel System	7-51
Drive Machine Carefully		Drain Fuel Tank Sump	7-53
Starting		Drain Fuel Filter (Stage 1 Filter)	7-53
Propel Change		Replace Fuel Filter Element (Stage 1 Filter)	
Cruise Control		Replace Fuel Filter (Stage 2 Filter)	
Deceleration		Check Fuel Hoses	7-56
Electric Brake		Clean Fuel Tank Breather	
Auto Retard		F. Air Cleaner	
Steering		Clean Air Cleaner Outer Element	
Stopping Machine		Replace Air Cleaner Outer and Inner Elements	
Parking Machine		Clean Air Cleaner Dust Cups	
Towing		G. Cooling System	
,		Check Coolant Level	
OPERATING MACHINE	5-1	Check DCA4 Concentration in Coolant	
Loading	5-1	Replace Coolant Filter	7-7 1
Load Weighing System	5-2	Change Coolant	
Hauling	5-3	Clean Radiator, After Cooler Interior	
Dumping	5-4	Clean Radiator, After Cooler Core	
Speed Limitation Function While Dump Body is Ra	ised 5-7	Check Fan Belt for Wear	
Deactivation of Speed Limitation Function in an		H. Air Conditioner	
Emergency	5-7	Clean and Replace Recirculation Air Filter	
MAINTENANCE	7 1	Clean and Replace Ventilation Air Filter	
		Check Refrigerant Quantity	
Correct Maintenance and Inspection Procedures		Check Compressor Belt Tension	
Check Hour Meter RegularlyUse Correct Fuels and Lubricants		Clean Condenser Core	
Prepare Machine for Maintenance		Check Tightening Torque	
Installing Dump Body Prop Pins		Seasonal Maintenance	
Removal and Storage of Dump Body Prop Pins		I. Electrical System	
Installing Dump Body Prop Cable		Batteries	
Removal and Storage of Dump Body Prop Cable		Replacing Fuses	
Inspection/Maintenance Lights		Check Fusible Link	
Main Part/Component Location Diagram		Check Electrical Cables and Wire Harnesses	
Periodic Replacement of Parts		Check Emergency Engine Stop Switch	
Hydraulic System		Check Lights	
Maintenance Guide		Check Horn and Backup Alarm Buzzer	
A. Greasing		Check Suspension Pressure Sensor	
B. Engine		J. Brakes & Steering System	
Check Engine Oil Level		Check Brake Operation	
Change Engine Oil		Check Service Brake	
Replace Engine Oil Filters		Check Parking Brake	
C. Travel Reduction Gear		Check Accumulator	
Check Gear Oil Level		Check Front/Rear Brake Lining	
Change Gear Oil		Check Front/Rear Brake Disk	
Replace Gear Oil Filter		K. Suspension, Wheels & Tires	
Clean and Replace Air Breather		Check Suspension Check Wheels	
Clean Oil Cooler Core		Check Wheels	
D. Hydraulic System		Check Front Wheel Lubricant	
Inspection and Maintenance of Hydraulic Equipme		Change Front Wheel Lubricant	
Check Hydraulic Oil Level		Check Tire Inflation Pressure	
Drain Hydraulic Oil Tank Sump		CHECK THE HIII audit I 1833UIE	7 - 1 0 /

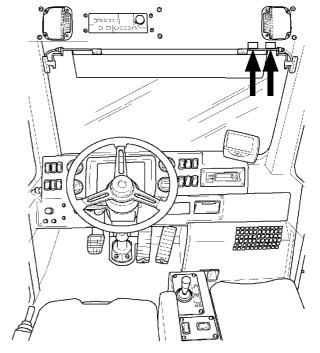
Check Tire Condition	7-108
Check Wheel Alignment	7-108
L. Miscellaneous	7-109
Check, Clean and Replace Alternator Carbon	
Brush	7-109
Check and Change Coolant in the Control	
Cabinet	7-112
Clean and Replace Pressurized Control Cabinet	
Filter	7-113
Clean Rear Axle Inside	7-114
Check and Replace Seat Belt	
Check Windshield Washer Tank	
Check Play Amount in Steering Wheel Stroke	
Auto-Lubrication System	
Check Tightening Torque of Bolts and Nuts	
Check Dump Body Prop Cable	7-130
MAINTENANCE UNDER SPECIAL ENVIRONMENT	ΔΙ
CONDITIONS	
Maintenance Under Special Environmental Conditi	
·	
STORAGE	10-1
Storing Machine	
Removing Machine from Storage	10-2
TROUBLESHOOTING	11-1
Cummins Fault Code Lamps and Diagnostic Switch	
Engine	
Electrical System	
Hydraulic System	
Hydraulic Hoist System	
Hydraulic Steering System	
Steering Pump	
Steering Control Valve	
Front Axle	
Rear Axle	
Hoist Pump Driveline	
Rear Axle Planetary	
Parking Brake	
Alternator	
Wheel Motor	
Blower Motor	
SPECIFICATIONS	
Specifications	12-1
Hitachi Loading Policy	12-2
INDEX	14-1

The manufacturing Nos. explained in this group is the individual number (serial No.) given to each machine and main components. These numbers are requested when inquiring any information on the machine and/or components. Fill these serial Nos. in the blank spaces in this group to immediately make them available upon request.

Machine

MODEL/TYPE: _	
PRODUCT	
IDENTIFICATION	N
NUMBER:	





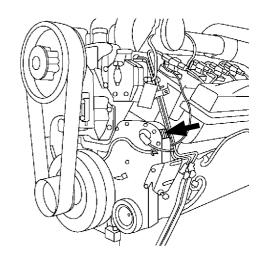
M8R8-01-105

Rollover Protective Structure Cab Name Plate

MODEL/TYPE: _	
ROPS	
MODEL	
NUMBER:	
MAX	
MACHINE	
MASS, M-kg:	

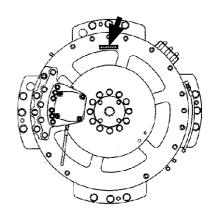
Engine

TYPE:	
MFG. NO.:	



M8R8-00-025

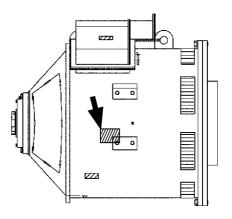
Wheel Motor



M8R8-00-028

Alternator

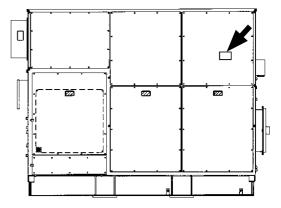
TYPE: ______



M8R8-00-027

Control Cabinet

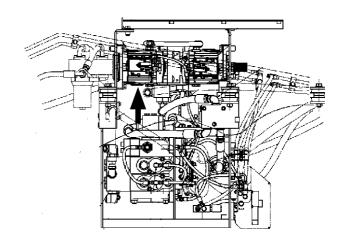
TYPE:		
MEG NO:		



M8R8-00-007

Hydraulic Pump

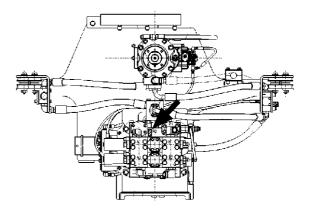
TYPE:		
MEG NO:		



M8R8-00-029

Control Valve

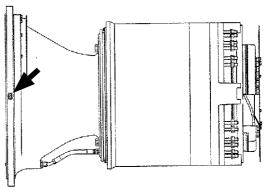
TYPE:		
MEG NO:		



M8R8-00-030

Travel Reduction Gear

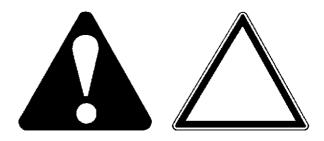
TYPE:	
MFG. NO. (LEFT):	
MEG NO (RIGHT).	



M8R8-00-031

Recognize Safety Information

- These are the **SAFETY ALERT SYMBOLS**.
 - When you see these symbols on your machine or in this manual, be alert to the potential for personal injury.
 - Follow recommended precautions and safe operating practices.



SA-688

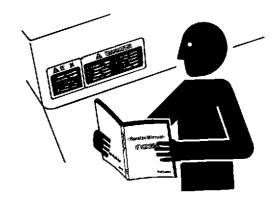
Understand Signal Words

- On machine safety signs, signal words designating the degree or level of hazard - DANGER, WARNING, or CAUTION - are used with the safety alert symbol.
 - **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 - WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 - CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
 - DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs.
 - Some safety signs do not use any of the designated signal words above after the safety alert symbol are occasionally used on this machine.
- To avoid confusing machine protection with personal safety messages, a signal word IMPORTANT indicates a situation which, if not avoided, could result in damage to the machine.
- NOTE indicates an additional explanation for an element of information.



Follow Safety Instructions

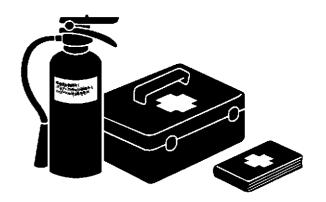
- Carefully read and follow all safety signs on the machine and all safety messages in this manual.
- Safety signs should be installed, maintained and replaced when necessary.
 - If a safety sign or this manual is damaged or missing, order a replacement from your authorized dealer in the same way you order other replacement parts (be sure to state machine model and serial number when ordering).
- Learn how to operate the machine and its controls correctly and safely.
- Allow only trained, qualified, authorized personnel to operate the machine.
- Keep your machine in proper working condition.
 - Unauthorized modifications of the machine may impair its function and/or safety and affect machine life.
- The safety messages in this SAFETY chapter are intended to illustrate basic safety procedures of machines. However it is impossible for these safety messages to cover every hazardous situation you may encounter. If you have any questions, you should first consult your supervisor and/or your authorized dealer before operating or performing maintenance work on the machine.



SA-003

Prepare for Emergencies

- Be prepared if a fire starts or if an accident occurs.
 - Keep a first aid kit and fire extinguisher on hand.
 - Thoroughly read and understand the label attached on the fire extinguisher to use it properly.
 - To ensure that a fire-extinguisher can be always used when necessary, check and service the fire-extinguisher at the recommended intervals as specified in the fireextinguisher manual.
 - Establish emergency procedure guidelines to cope with fires and accidents.
 - Keep emergency numbers for doctors, ambulance service, hospital, and fire department posted near your telephone.



Wear Protective Clothing

 Wear close fitting clothing and safety equipment appropriate to the job.

You may need:

A hard hat

Safety shoes

Safety glasses, goggles, or face shield

Heavy gloves

Hearing protection

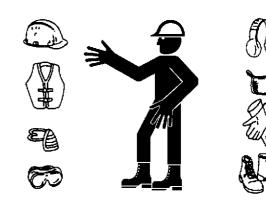
Reflective clothing

Wet weather gear

Respirator or filter mask.

Be sure to wear the correct equipment and clothing for the job. Do not take any chances.

- Avoid wearing loose clothing, jewelry, or other items that can catch on control levers or other parts of the machine.
- Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating the machine.



SA-438

Protect Against Noise

- Prolonged exposure to loud noise can cause impairment or loss of hearing.
 - Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortably loud noises.



SA-434

Inspect Machine

- Inspect your machine carefully each day or shift by walking around it before you start it to avoid personal injury.
 - In the walk-around inspection, be sure to cover all points described in the "INSPECT MACHINE DAILY BEFORE STARTING" chapter in the operator's manual.



General Precautions for Cab

- Before entering the cab, thoroughly remove all dirt and/or
 oil such as mud, grease, soil or stones that may mess up the
 cab from the soles of your work boots. If any controls such
 as a pedal is operated while with dirt and/or oil on the soles
 of the operator's work boots, the operator's foot may slip off
 the pedal, possibly resulting in a personal accident.
 - Do not mess up around the operator's seat with parts, tools, soil, stones, obstacles that may fold up or turn over, cans or lunch box. The pedals become inoperable if obstacle jams in operation stroke of the accelerator pedal, electric brake pedal or service brake pedal, which may result in serious injury or death.
 - Do not leave parts and/or tools lying around the operator's seat. Store them in their specified locations.
 - Avoid storing transparent bottles in the cab. Do not attach any transparent type window decorations on the windowpanes as they may focus sunlight, possibly starting a fire.
 - Refrain from listening to the radio, or using music headphones or mobile telephones in the cab while operating the machine.
 - Keep all flammable objects and/or explosives away from the machine.
 - After using the ashtray, always cover it to extinguish the match and/or tobacco.
 - Do not leave cigarette lighters in the cab. When the temperature in the cab increases, the lighter may explode.
 - Use proper floor mat dedicated to the machine. If another floor mat is used, it may be displaced and contact with the accelerator pedal, electric brake pedal or service brake pedal during operation, resulting in serious injury or death.
- When operator drives the machine with decreased attentiveness, resulting in serious injury or death.
 - Never operate the machine in the state with drinking alcohol or drug.

Use Handholds and Steps

- Falling is one of the major causes of personal injury.
 - When you get on and off the machine, always face the machine and maintain a three-point contact with the steps and handrails.
 - Do not use any controls as handholds.
 - Never jump on or off the machine. Never mount or dismount a moving machine.
 - Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.
 - Do not step or climb on surfaces, which are not intended for walking. Step only on the areas provided with the slip resistant surfaces.



Operator's Visibility

- This machine is equipped with mirrors and cameras to see around the machine. Adjust the view mirrors and cameras position so that the best visibility is obtained from the operator's seat. If the mirrors and cameras are dirty, immediately clean them. Also see carefully around the machine while moving your viewpoint as need arises.
 - The view mirrors and cameras position should be adjusted whenever changing the operator for the machine. Always take extra attention for surrounded area during operating.
 - When the machine is modified or fitted with equipment that influences visibility, it is necessary to check again the operator's visibility according to the ISO 5006. Contact your authorized dealer before modifying the machine.
- This machine has the blind area created because of parts of the base machine and/or its equipment from the operator's seat by direct.
- Operate the machine safely with sufficient recognition this machine has blind area from the operator's seat by direct.
- The operator's visibility according to the ISO 5006 of this machine with standard mirrors and cameras is as follows.

Operator's visibility on a rectangular 1 m boundary close around the machine

Operator can see the entire circumference of the height 1.5 m located at 1 m distance from the outside rectangular boundary of the machine as illustrated.

Operator's visibility on a 12 m visibility test circle

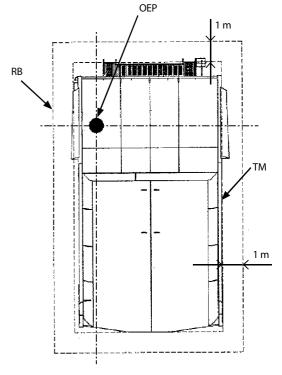
Operator can see the entire circumference located the circle with 12 m radius located on the ground reference plane with its center vertically below the operator's eye point as illustrated.

TM: test machine

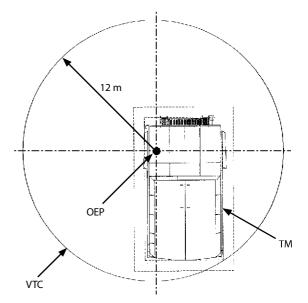
RB: rectangular 1 m boundary

VTC: visibility test circle with 12 m radius

OEP: operator's eye point



SS-3231



SS-3232

Adjust Operator's Seat

- A poorly adjusted seat for either the operator or the work at hand may quickly fatigue the operator leading to misoperations.
 - The seat should be adjusted whenever changing the operator for the machine.
 - The operator should be able to fully depress the pedals and to correctly operate the steering wheel with his back against the seat back.
 - If not, move the seat forward or backward, and check again.
 - Adjust the mirror position so that the best rear visibility is obtained from the operator's seat. If the mirror is broken, immediately replace it with a new one.



SA-462

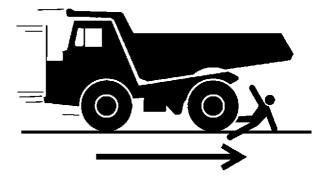
Fasten Your Seat Belt

- If the machine should overturn, the operator may become injured and/or thrown from the cab. Additionally the operator may be crushed by the overturning machine, resulting in serious injury or death.
 - Prior to operating the machine, thoroughly examine webbing, buckle and attaching hardware. If any item is damaged or worn, replace the seat belt or component before operating the machine.
 - Be sure to remain seated with the seat belt securely fastened at all times when the machine is in operation to minimize the chance of injury from an accident.
 - We recommend that the seat belt is replaced every three years regardless of its apparent condition.



Move and Operate Machine Safely

- Bystanders can be run over.
 - Take extra care not to run over bystanders. Confirm the location of bystanders before moving, or operating the machine.
 - Always keep the travel alarm and horn in working condition (if equipped). It warns people when the machine starts to move.
 - Use a signal person when moving, or operating the machine in congested areas. Coordinate hand signals before starting the machine.
 - Use appropriate illumination. Check that all lights are operable before operating the machine. If any faulty illumination is present, immediately repair it.
 - Always keep the cab door closed while operating the machine.
 - Check the mirrors and the monitors in the CAB for problems. If there are problems, replace the problem parts or clean the mirrors, cameras and monitors.
 Refer to Camera Monitor section on the cleaning of the camera and monitor.



SA-1598

Handle Starting Aids Safely

Starting fluid:

- Starting fluid is highly flammable.
 - Keep all sparks and flame away when using it.
 - Keep starting fluid well away from batteries and cables.
 - Remove container from machine if engine does not need starting fluid.
 - To prevent accidental discharge when storing a pressurized container, keep the cap on the container, and store it in a cool, well-protected location.
 - Do not incinerate or puncture a starting fluid container.



Operate Only from Operator's Seat

- Inappropriate engine starting procedures may cause the machine to runaway, possibly resulting in serious injury or death.
 - Start the engine only when seated in the operator's seat.
 - NEVER start the engine while standing on the platform.
 - Do not start engine by shorting across starter terminals.
 - Check that the parking brake switch is turned ON.
 - Before starting the engine, confirm that shift lever is in the NEUTRAL position.
 - Before starting the engine, confirm the safety around the machine and sound the horn to alert bystanders.



SA-1599

Jump Starting

- Battery gas can explode, resulting in serious injury.
 - If the engine must be jump started, be sure to follow the instructions shown in the "OPERATING ENGINE" chapter.
 - The operator must be in the operator's seat so that the machine will be under control when the engine starts. Jump starting is a two-person operation.
 - Never use a frozen battery.
 - Failure to follow correct jump starting procedures could result in a battery explosion or a runaway machine.



Avoid Injury Caused by High Tension Electric Shock

- Never attempt to open any electrical component covers displaying a decal with the words "HIGH VOLTAGE." You may receive an electric shock, possibly resulting in personal injury or death.
- Never attempt to touch or grab any high tension electrical components or the power cable with wet hands. You may receive an electric shock, possibly resulting in personal injury or death.



SA-112

Investigate Job Site Beforehand

- When working on a road shoulder, the machine could tip over, possibly resulting in serious injury or death.
 - Investigate the configuration and ground conditions of the job site beforehand to prevent the machine from falling and to prevent the ground, stockpiles, or banks from collapsing.
 - Make a work plan. Use machines appropriate to the work and job site.
 - Reinforce ground, edges, and road shoulders as necessary. Keep the machine well back from the edges of excavations and road shoulders.
 - When working on an incline or on a road shoulder, employ a signal person as required.
 - When the footing is weak, reinforce the ground before starting work.
 - When working on frozen ground, be extremely alert. As ambient temperatures rise, footing becomes loose and slippery.
 - Beware the possibility of fire when operating the machine near flammable objects such as dry grass.
 - Driver should try to travel the road once to understand potential danger.



SA-1601

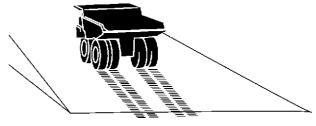
Provide Signals for Jobs Involving Multiple Machines

 For jobs involving multiple machines, provide signals commonly known by all personnel involved. Also, appoint a signal person to coordinate the job site. Make sure that all personnel obey the signal person's directions.

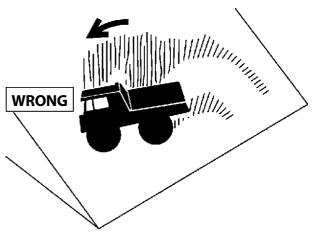


Drive Machine Safely

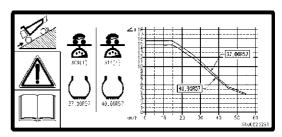
- Before driving the machine, always confirm that the shift lever direction corresponds to the direction you wish to drive.
 - Be sure to detour around any obstructions.
 - Avoid traveling over obstructions. Soil, fragments of rocks, and/or metal pieces may scatter around the machine. Do not allow personnel to stay around the machine while traveling.
 - If the engine stops while driving, the steering function becomes inoperative. Immediately stop the machine by applying the service brake to prevent personal accident.
 - Do not inertia run with the shift lever in Neutral position.
 Because engine speed is in the slow idling state, the cooling capability of the travel reduction gear reduces.
 The reduction gear unit may be seriously damaged if the machine continues to drive with the shift lever in Neutral position.
- Driving on a slope may cause the machine to slip or overturn, possibly resulting in serious injury or death.
 - Driving across the face of a slope or steering on a slope may cause the machine to skid or overturn. If the direction must be changed, move the machine to level ground, then, change the direction to ensure safe operation.
- The "Electric Brake Performance Decal" is provided in the cab as a general guideline for proper downgrade operation of the loaded machine. Warning, understand downhill speed operation thoroughly before operation. Machine road speed is reduced during downhill operation. When electric brake operation with overloaded machine on the steep downgrade continues for more than 2 minutes continuously, grid box resistance will be electrical overload. Pay attention that electric brake torque reduces.
 - Overloaded machine reduces the electric brake performance. Observe strictly the Hitachi loading policy while driving.
 - Before descending on a slope, decelerate the machine sufficiently using electric brake.
 - When descending on a slope, drive the machine slowly using electric brake.
- Driving on a rough road may cause the machine to slip or overturn, possibly resulting in serious injury or death.
 - When driving on a rough road or soft ground, reduce speed sufficiently.
 - Driving on a wet road may cause the machine to slip, possibly resulting in serious injury or death. Avoid applying the electric brake for quick stops.



SA-1602



SA-1603



SSYA00023261

Thank you so much for reading. Please click the "Buy Now!" button below to download the complete manual.



After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email: ebooklibonline@outlook.com