



93107-00730

July 2017

OPERATION & MAINTENANCE MANUAL

WHEEL LOADER

67Z7B/67TM7B

Powered by CUMMINS QSB4.5 Engine
Serial No. 65C5-5001 and up

NOTICE

READ AND UNDERSTAND THIS
MANUAL BEFORE OPERATING
AND SAVE THIS MANUAL ON
THE MACHINE

INDEX

MACHINE NUMBERS

SAFETY

SAFETY SIGNS

COMPONENTS NAME

GETTING ON/OFF THE MACHINE

OPERATOR'S STATION

BREAK-IN

OPERATING ENGINE

DRIVING MACHINE

OPERATING MACHINE

TRANSPORTING

MAINTENANCE

MAINTENANCE UNDER SPECIAL ENVIRONMENTAL CONDITIONS

STORAGE

TROUBLESHOOTING

SPECIFICATIONS

OPTIONAL ATTACHMENTS

INDEX

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CONTENTS

MACHINE NUMBERS	1	Prevent Fires	S-29
Aftertreatment Device.....	2	Evacuating in Case of Fire.....	S-31
SAFETY	S-1	Beware of Exhaust Fumes.....	S-31
Recognize Safety Information	S-1	Precautions for Welding and Grinding	S-32
Understand Signal Words.....	S-1	Avoid Heating Near Pressurized Fluid Lines	S-32
Follow Safety Instructions	S-2	Avoid Applying Heat to Lines Containing Flammable Fluids	S-33
Prepare for Emergencies.....	S-3	Precautions for Handling Accumulator and Gas Damper.....	S-33
Wear Protective Clothing.....	S-3	Precautions for Diesel Exhaust Fluid (DEF).....	S-33
Protect Against Noise	S-4	Remove Paint Before Welding or Heating	S-34
Inspect Machine	S-4	Beware of Asbestos and Silica Dust and Other Contamination	S-34
General Precautions for the Cab	S-5	Prevent Battery Explosions	S-35
Use Handrails and Steps	S-6	Service Air Conditioning System Safely	S-35
Never Ride Attachment.....	S-6	Handle Chemical Products Safely.....	S-36
Adjust Operator's Seat.....	S-6	Dispose of Waste Properly.....	S-36
Ensure Safety Before Rising from or Leaving Operator's Seat	S-7	Notes on Aftertreatment Device	S-37
Fasten Your Seat Belt	S-7	Precautions for Communication Terminal.....	S-37
Move and Operate Machine Safely.....	S-8	Precaution for Communication Terminal Equipment	S-38
Handle Starting Aids Safely	S-8	SAFETY SIGNS	S-41
Operate Only from Operator's Seat	S-9	COMPONENTS NAME	1-1
Jump Starting	S-9	Components Name	1-1
Investigate Job Site Beforehand	S-10	GETTING ON/OFF THE MACHINE	1-3
Equipment of Head Guard, ROPS, FOPS.....	S-11	Getting ON/OFF the Machine	1-3
Provide Signals for Jobs Involving Multiple Machines....	S-11	OPERATOR'S STATION	1-4
Keep Riders Off Machine	S-12	About Aftertreatment Device	1-4
Drive Safely	S-12	Automatic Regeneration	1-5
Drive Machine Safely (Work Site).....	S-13	Cab Features.....	1-7
Drive Safely with Bucket Loaded	S-14	Front Console.....	1-8
Drive on Snow Safely	S-14	Right Console.....	1-9
Travel on Public Roads Safely.....	S-15	Multi-Function Joystick Type	1-9
Avoid Injury from Rollaway Accidents.....	S-15	Fingertip Control Type	1-10
Avoid Accidents from Backing Up and Turning	S-16	Monitor Panel	1-11
Avoid Positioning Bucket or Attachment Over Anyone.....	S-17	Service Indicator.....	1-12
Avoid Tipping.....	S-17	Parking Brake Indicator (Red).....	1-13
Never Undercut a High Bank.....	S-18	Brake Oil Low Pressure Indicator (Red).....	1-13
Dig with Caution.....	S-18	Hydraulic Oil Level Indicator (Red).....	1-13
Perform Truck Loading Safely	S-18	Low Steering Oil Pressure Indicator (Red)	1-14
Avoid Power Lines.....	S-19	HST Warning Indicator (Red)	1-14
Precautions for Operation.....	S-19	Discharge Warning Indicator (Red)	1-14
Precautions for Lightning.....	S-19	Urea Warning Indicator (Red).....	1-14
Object Handling	S-20	Engine Trouble Indicator (Red).....	1-15
Protect Against Flying Debris	S-20	Overheat Indicator (Red)	1-15
Park Machine Safely.....	S-21	Engine Oil Low Pressure Indicator (Red)	1-15
Store Attachments Safely	S-21	Aftertreatment Device Warning Indicator.....	1-16
Transport Safely	S-22	Aftertreatment Device Regeneration Request (Blinking Yellow)	1-16
Handle Fluids Safely—Avoid Fires.....	S-23	Aftertreatment Device Regeneration Inhibited Indicator	1-16
Practice Safe Maintenance	S-24	Aftertreatment Device Regeneration Inhibited Warning (Yellow)	1-16
Warn Others of Service Work	S-25	Aftertreatment Device Auto Regeneration Inhibited Warning (Yellow)	1-16
Support Machine Properly	S-25		
Stay Clear of Moving Parts	S-26		
Support Maintenance Properly	S-26		
Prevent Parts from Flying	S-27		
Prevent Burns.....	S-27		
Replace Rubber Hoses Periodically.....	S-28		
Avoid High-Pressure Fluids.....	S-28		

CONTENTS

Air Filter Restriction Indicator (Red).....	1-17	Switches, Steering Wheel and Pedals.....	1-50
Preheat Indicator (Yellow).....	1-17	Forward/Reverse Lever/ Shift Switch	1-51
Fuel Filter Restriction Indicator (Red).....	1-17	Forward/Reverse Lever	1-51
HST Oil Temperature Indicator (Red).....	1-17	Shift Switch	1-51
Secondary Steering Indicator (Yellow).....	1-18	Neutral Lever Lock (for the Forward/Reverse Lever)	1-52
Seat Belt Indicator (Red)	1-18	Steering.....	1-52
Water Separator Indicator (Red).....	1-18	Horn Switch.....	1-52
Coolant Temperature Gauge.....	1-19	Turn Signal Lever	1-53
Fuel Gauge.....	1-19	Light Switch.....	1-54
HST Oil Temperature Gauge	1-19	High-Low Beam Switch	1-55
Turn Signal Indicator (Green)	1-20	Key Switch.....	1-55
High Beam Indicator (Blue).....	1-20	Wiper Switch	1-56
Work Light Indicator (Yellow).....	1-20	Wiper Operation.....	1-56
Aftertreatment Device Regeneration Inhibited		Front/Rear Wiper Switch.....	1-57
Indicator (Green).....	1-20	Hazard Switch	1-58
Clearance Light Indicator (Green)	1-21	Work Light Switch	1-59
Control Lever Lock Indicator (Red).....	1-21	Parking Brake Switch.....	1-60
Power Mode Indicator (Green)	1-21	Accelerator Pedal.....	1-61
Maintenance Indicator (Yellow).....	1-22	Brake Pedal	1-61
Forward/Reverse Selector Switch Indicator (Green).....	1-22	Tilt, Telescopic Lever/Steering Column Tilt Pedal	1-62
Fan Reverse Rotation Indicator (Green).....	1-22	1st Speed Select Switch	1-63
Monitor Display.....	1-23	Auto Idling Stop Switch	1-64
Forward/Reverse and Shift Position Indicator.....	1-24	Right Console / Switches	1-65
Speedometer.....	1-26	Multi-Function Joystick Type	1-65
Ride Control Indicator (Optional).....	1-27	Multi-Function Joystick Lever	1-66
ECO Indicator.....	1-27	Right Console / Switches	1-67
DEF Level Gauge	1-27	Fingertip Control Type	1-67
DEF/SCR System Alarm.....	1-28	Control Lever.....	1-68
DEF Level Alarm.....	1-28	Control Lever Lock Switch.....	1-70
Urea SCR System Malfunction	1-29	Armrest Adjust Handle.....	1-71
Machine Information Display.....	1-30	Creep Mode Switch	1-72
Shifting Item to be Indicated on Machine		Traction Control Switch.....	1-73
Information Display	1-31	Power Mode Switch.....	1-74
Resetting of Oil Change and Filter Replacement		Aftertreatment Device Regeneration Switch	1-75
Intervals.....	1-37	Manual Regeneration Procedure	1-76
Hydraulic Oil Change Interval Hour Meter	1-37	Aftertreatment Device Regeneration Inhibited.....	1-78
Hydraulic Oil Filter 1 Replacement Interval		Ride Control Switch (Optional).....	1-79
Hour Meter.....	1-38	AUTO.....	1-79
Hydraulic Oil Filter 2 Replacement Interval		OFF	1-79
Hour Meter.....	1-39	Fan Reverse Rotation Switch.....	1-80
Hydraulic Oil Filter 3 Replacement Interval		Manual Operation	1-80
Hour Meter.....	1-40	AUTO	1-81
Transmission Oil Change Interval Hour Meter	1-41	Forward/Reverse Selector Switch.....	1-82
Transmission Oil Filter Replacement Interval		Operational Procedure.....	1-82
Hour Meter.....	1-42	Secondary Steering Operation Check Switch (Optional)	
Engine Oil Change Interval Hour Meter	1-43		1-83
Engine Oil Filter Replacement Interval Hour Meter ...	1-44	Dual Lift Arm Auto Leveler.....	1-84
Oil Separator Element Replacement Interval		Cigar Lighter (24 VDC Electrical Outlet)	1-85
Hour Meter.....	1-45	Using Cigar Lighter.....	1-85
Fuel Filter Replacement Interval Hour Meter.....	1-46	Using Cigar Lighter Port as External Power Source	1-85
DEF Supply Module Main Filter		Ash Tray.....	1-86
Replacement Interval Hour Meter.....	1-47	Auto Air Conditioner	1-87
Axle Oil Change Interval Hour Meter.....	1-48	Feature	1-87
Clock Setting Mode	1-49	Components Name	1-88
Clock (24H) Setting Procedures	1-49	Controller Part Name and Function	1-89
		Mode/Temperature Control Switch	1-91

CONTENTS

Defroster Operation	1-93	Check After Starting	3-8
Cool Head/Warm Feet Operation.....	1-93	Using Booster Batteries	3-9
Tips for Optimal Air Conditioner Usage	1-94	Warm Up.....	3-11
For Rapid Cooling	1-94	Cold Weather Warm Up	3-12
When Windows Become Clouded	1-94	Stopping Engine.....	3-14
Off-Season Air Conditioner Maintenance	1-94	DRIVING MACHINE	4-1
Adjusting Operator's Seat (Air Suspension Type Seat) ...	1-95	Driving the Machine.....	4-1
Components Name	1-95	Starting to Move.....	4-2
Rear Tray	1-96	Parking Brake Switch.....	4-4
Electric Power Output (12 VDC Electrical Outlet)	1-96	Drive Speed Change.....	4-5
Fuse Box	1-97	Changing Forward/Reverse Drive Direction.....	4-5
Fuse Box A	1-98	Steering Wheel	4-6
Fuse Box B.....	1-98	Secondary Steering (Optional)	4-7
Hot/Cool Box.....	1-99	Emergency Stop and Restart of Driving.....	4-8
Tray and Drink Holder	1-99	Precautions for Driving on Slopes	4-11
ROPS Cab.....	1-100	Precautions for Driving Speeds	4-12
Front Room Light.....	1-102	Precautions to be Taken if Machine Failure Occurs.....	4-13
Rear Room Light	1-102	Stop the Machine	4-14
Emergency Evacuation Hammer	1-102	Parking	4-16
Sun Visor	1-103	Emergency Stopping	4-17
Coat Hook	1-103	OPERATING MACHINE.....	5-1
Upper Switch Panel	1-104	Control Lever.....	5-1
Rotary Light Switch (Optional)	1-104	Control Lever Lock Switch.....	5-4
Rear View Mirror Heater Switch.....	1-104	Ride Control Switch (Optional)	5-5
Outside Rear View Mirror.....	1-105	Lift Arm Kick Out.....	5-7
Room Rear View Mirror.....	1-105	Dual Lift Arm Auto Leveler.....	5-8
Cab Door.....	1-105	Bucket Auto Leveler.....	5-9
Door Lock Knob	1-106	Auto Idling Stop.....	5-11
Door Open/Close Lever	1-106	Before Operation	5-13
Window Open/Close Levers	1-106	Precautions for Operation.....	5-13
When Fully Opening the Door.....	1-107	Ensure Safety When Operating on Road Shoulders	5-13
Cab Door Release Lever	1-107	Avoid Overloading.....	5-14
Battery Disconnect Switch	1-108	Avoid Rapid Steering Changes and/or Sudden	
Switch Operation	1-109	Braking.....	5-14
Articulation Lock Bar	1-110	Avoid Operation with Biased Loads	5-14
Towing Pin	1-111	Excavation.....	5-15
Inspection/Maintenance Side Access Cover.....	1-112	Grading	5-17
Steps.....	1-113	Loading	5-18
Tool Box.....	1-113	Dozing	5-21
Vandal-Proof Devices.....	1-114	Scooping	5-21
Seat Belt	1-116	Removing Snow.....	5-22
Seat Pocket	1-116	Lifting Wheel Loader	5-22
Rear View Camera Monitor	1-117	Precautions for After Operations	5-23
Components Name	1-117	TRANSPORTING	6-1
Starting and Stopping the Rear View Camera		Transporting by Road	6-1
Monitor.....	1-117	Transporting by Trailer	6-1
Monitor Setting and Adjustment	1-118	Loading / Unloading on Trailer.....	6-2
BREAK-IN	2-1	Fastening Machine for Transporting	6-4
Break-in Period for New Machine.....	2-1	Transporting Wheel Loader (Urgent Situation)	6-5
Work Mode for Break-in	2-1	Towing Method.....	6-10
OPERATING ENGINE.....	3-1	Lifting Machine	6-11
Inspect Machine Daily Before Starting	3-1	MAINTENANCE	7-1
Check Before Starting	3-3	Correct Maintenance and Inspection Procedures	7-1
Starting Engine	3-5	Check the Hour Meter Regularly.....	7-2
Starting in Cold Weather.....	3-7		

CONTENTS

Layout.....	7-3	G. Cooling System	7-72
Preparations for Inspection and Maintenance	7-7	Coolant	7-72
Lock Frames.....	7-9	Precautions for handling antifreeze	7-72
Inspection/Maintenance Access Side Cover.....	7-10	Check Coolant Level	7-73
Inspection and Maintenance Table.....	7-11	Check Drive Belt	7-74
Kind of Oils.....	7-17	Check Drive Belt Tensioner	7-75
List of Consumable Parts	7-21	Change Coolant.....	7-76
A. Greasing	7-24	Clean Radiator/Oil Cooler and Other Cooling	
B. Engine	7-30	System	7-77
Check Engine Oil Level.....	7-30	H. Electrical System.....	7-78
Change Engine Oil.....	7-31	Batteries	7-78
Replace Engine Oil Filter.....	7-33	Check Monitor Functions and All Other Instrument	
Check Crankcase Breather Tube	7-34	Operation	7-82
Replace Crankcase Breather Filter Element	7-35	Check Lights	7-83
Check Oil Drain Tube	7-36	Check Horn and Reverse Buzzer.....	7-83
C. Power Train	7-37	Check Electrical Harnesses and Fuses	7-84
Check Transmission Oil Level.....	7-37	I. Brake System.....	7-86
Change Transmission Oil	7-38	Check Right and Left Brake Interlocking	
Clean Transmission Strainer	7-38	Performance.....	7-86
Replace Transmission Oil Filter.....	7-40	Check Parking Brake Force	7-87
Change Axle Oil	7-41	Check Accumulator Function, Gas Leakage,	
Check Oil Level.....	7-42	Looseness, and Damage	7-88
Check Surroundings Around Axle and Covers for Oil		Check Gas Pressure in Accumulator	7-89
Leaks	7-43	Check Brake Disks (Service and Parking).....	7-89
Clean Transmission Air Breather.....	7-43	J. Tire.....	7-90
D. Hydraulic System.....	7-44	Check and Replace Tire (Tire Pressure).....	7-90
Inspection and Maintenance of Hydraulic Equipment...	7-44	Check Tire for Damage.....	7-90
Check Hydraulic Oil Level	7-46	Check Wheel Bolt Torque	7-91
Change Hydraulic Oil/Clean Hydraulic Oil Tank.....	7-47	Removal and Installation of Tire.....	7-94
Bleed Air from the Hydraulic System.	7-48	K. Air Conditioner	7-95
Bleed Air from the Hydraulic Circuit.....	7-48	Clean/Replace Air Conditioner Circulation/Fresh Air	
Clean Suction Filter	7-49	Filters.....	7-95
Replace Pilot Oil Filter.....	7-50	Check Air Conditioner	7-99
Replace Hydraulic Tank Oil Filter	7-52	Check Air Conditioner Piping	7-99
Replace HST Charge Filter.....	7-54	Check Air Conditioner Condenser	7-100
Replace Air Breather Element.....	7-55	Check Air Conditioner Fan Belt	7-100
Check Pilot Circuit Accumulator Function, Gas		Check Refrigerant	7-101
Leakage, Looseness, and Damage	7-56	Check Compressor and Pulley.....	7-101
Replace Pilot Circuit Accumulator	7-57	L. Miscellaneous.....	7-102
Check Ride Control Accumulator Function, Gas		Check Bucket Teeth and Cutting Edge.....	7-102
Leakage, Looseness, and Damage (Optional)	7-57	Check and Replace Seat and Seat Belt	7-103
Check Gas Pressure in Ride Control Accumulator		Check ROPS Cab Mounting Bolts	7-103
(Optional)	7-57	Check Windshield Washer Fluid Level	7-103
Check Gas Pressure in Steering Accumulator	7-57	Check Play Amount in Steering Wheel Stroke.....	7-104
Check Hoses and Lines	7-58	Check Accelerator Pedal Operation, and Exhaust	
E. Fuel System	7-63	Gas Color and Noise	7-105
Check Fuel Level.....	7-63	Check Rearview Mirror and Inside Rearview	
Drain Water and Sediment from Fuel Tank.....	7-65	Mirror	7-106
Drain Fuel Filter.....	7-66	Check Steps and Handrails for Damage and	
Bleed Air from the Fuel System	7-66	Looseness.....	7-106
Replace Fuel Main Filter Element	7-67	Clean Engine Compartment and Hood	7-107
Replace Fuel Pre-Filter Element	7-68	Check Sound Absorbing Mat Around Engine	7-107
Clean Fuel Solenoid Pump Strainer.....	7-69	Check and Adjust Valve Clearance.....	7-108
Check Fuel Hoses	7-70	Retighten Front Axle and Rear Axle Support	
F. Air Cleaner.....	7-71	Mounting Bolts.....	7-108
Clean and Replace Air Cleaner Element	7-71		

CONTENTS

Tightening and Retightening Torque of Nuts and Bolts.....	7-109
M. Aftertreatment Device.....	7-121
Check and Clean Aftertreatment Device.....	7-121
N. Urea SCR System.....	7-122
Check DEF.....	7-124
Replace DEF Supply Module Main Filter.....	7-127
MAINTENANCE UNDER SPECIAL ENVIRONMENTAL CONDITIONS.....	9-1
Maintenance Under Special Environmental Conditions...	9-1
Precautions for Maintenance During Cold Weather Season.....	9-2
STORAGE	10-1
Storing the Machine.....	10-1
TROUBLESHOOTING	11-1
Troubleshooting	11-1
SPECIFICATIONS	12-1
Specifications.....	12-1
OPTIONAL ATTACHMENTS.....	13-1
Hydraulic Type Quick Coupler Operation	13-1
INDEX.....	14-1

CONTENTS

MEMO

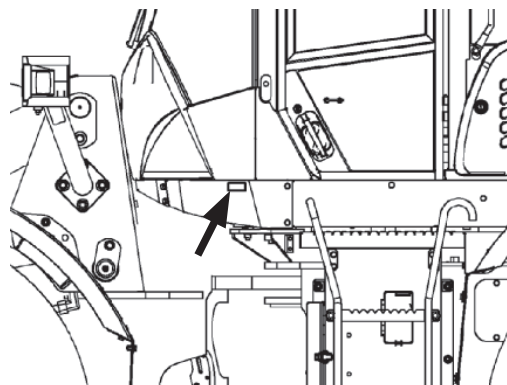
MACHINE NUMBERS

The manufacturing Nos. explained in this group is the individual number (serial No.) given to each machine and hydraulic 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

TYPE : _____

MACHINE
SERIAL NUMBER: _____

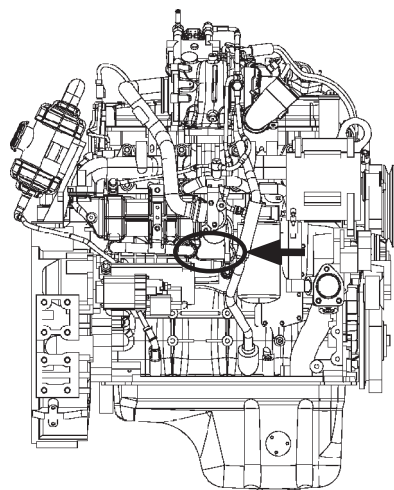


67M4FC-00-01

Engine

TYPE : _____

MFG. NO. : _____



MPTC-00-001

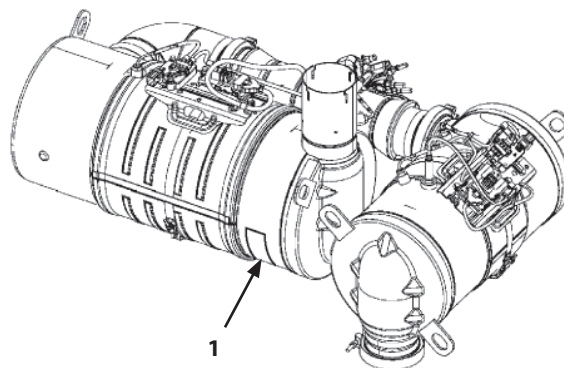
MACHINE NUMBERS

Aftertreatment Device

1. SCR

TYPE : _____

MFG. NO. : _____

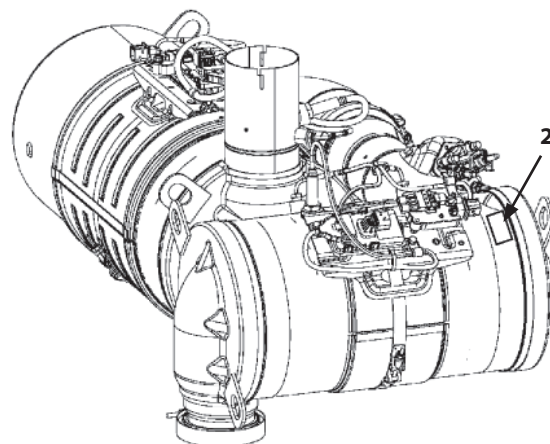


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2. DOC

TYPE : _____

MFG. NO. : _____

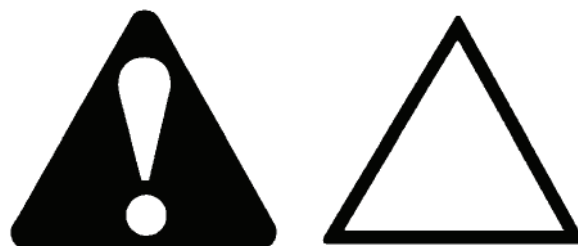


67Z7B-00-02D

SAFETY

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-2644

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 are occasionally used on this machine that do not use any of the designated signal words mentioned above after the safety alert symbol.
- 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 a piece of information.



IMPORTANT

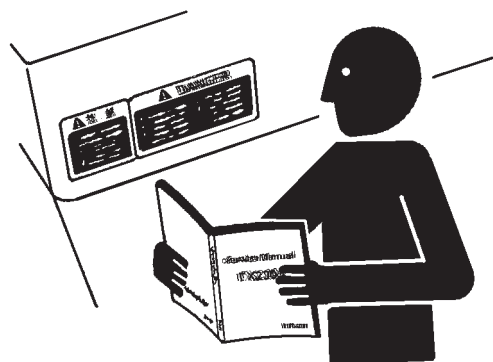


SA-1223

SAFETY

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.
 - Do not modify any machine parts without authorization. Failure to do so may deteriorate the safety, function, and/or service life of the part. In addition, personal accident, machine trouble, and/or damage to material caused by unauthorized modifications will void KCM Warranty Policy.
 - Never attempt to modify or disassemble the inlet/exhaust parts and the aftertreatment device. Avoid shocks to the element of the aftertreatment device, such as striking or dropping objects onto the elements. Failure to do so may affect the exhaust gas purifying device, possibly damaging it or lowering its performance.
 - Do not use attachments and/or optional parts or equipment not authorized by KCM/Hitachi. Failure to do so may deteriorate the safety, function, and/or service life of the machine. In addition, personal accident, machine trouble, and/or damage to material caused by using unauthorized attachments and/or optional parts or equipment will void KCM Warranty Policy.
- 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

SAFETY

Prepare for Emergencies

- Be prepared for a fire or an accident.
 - 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 fire extinguisher 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.



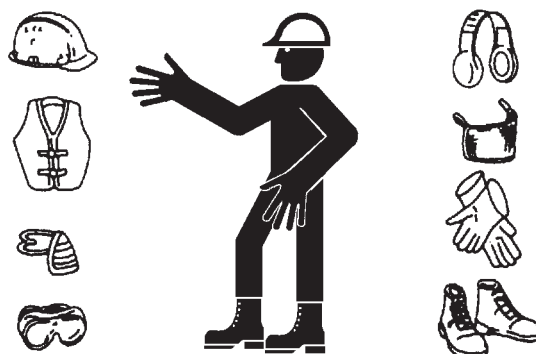
SA-437

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.



SA-438

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.

SAFETY

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” section in the operator’s manual.



SA-435

SAFETY

General Precautions for the Cab

- Before entering the cab, thoroughly remove all dirt and/or oil such as mud, grease, soil or stones 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 make a mess around the operator's seat with parts, tools, soil, stones or other, obstacles that may fold up or turn over such as cans or lunch box. The levers or pedals become inoperable if an obstacle jams during the operation stroke of the accelerator pedal, brake pedals, control lever lock switch or control levers, which may result in serious injury or death.
- 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.
- Correctly lay the floor mat specific to the machine. If another floor mat is used, it may be displaced and contact with the accelerator or brake pedals during operation, resulting in serious injury or death.

SAFETY

Use Handrails 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.
 - Before getting on or off the machine, check the condition of the steps and handrails for sticking of slippery material like grease or mud. Thoroughly remove such material if stuck. In addition, repair the damage to the steps and/or handrails. Retighten loose bolts.
 - Never get on and off the machine with tools in your hands.



SA-439

Never Ride Attachment

- Never allow anyone to ride on attachment or the load. This is an extremely dangerous practice.

Adjust Operator's Seat

- A seat which is poorly adjusted for the individual operator, or the work to be undertaken, may quickly fatigue the operator leading to misoperation.
 - The seat should be adjusted whenever the operator of the machine changes.
 - The operator should be able to fully depress the pedals and to correctly operate the control levers with his back against the seat back.
 - If not, move the seat forward or backward, and check again.
 - Adjust the rear view 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

SAFETY

Ensure Safety Before Rising from or Leaving Operator's Seat

- Before rising from the operator's seat to open / close either side window or to adjust the seat position, be sure to first lower the front attachment to the ground and then move the control lever lock switch to the lock (🔒) position. Failure to do so may allow the machine to unexpectedly move when a body part unintentionally comes in contact with a control lever, possibly resulting in serious personal injury or death.
- Before leaving the machine, be sure to first lower the front attachment to the ground and then move the control lever lock switch to the lock (🔒) position. Turn the key switch OFF to stop the engine.
- Before leaving the machine, close all windows, doors, and access covers and lock them.

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 be replaced every three years regardless of its apparent condition.



SA-237

SAFETY

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.
 - Ensure the cab door, windows, doors and covers are securely locked.
 - Check the mirrors and the monitor in the cab for problems.
If there is any problem, replace the problem part(s) or clean the mirror, camera and the monitor.
Refer to Rear View Monitor section for information on cleaning the camera lens and the monitor display.



SA-398

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.



SA-293

SAFETY

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 tire or on ground.
 - Do not start engine by shorting across starter terminals.
 - Before starting the engine, confirm that all control levers are in neutral.
 - Before starting the engine, confirm the safety around the machine and sound the horn to alert bystanders.



SA-431

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 in the operator's manual.
 - 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.



SA-032

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