Operation & Maintenance Manual

PC130-7

HYDRAULIC EXCAVATOR

SERIAL NUMBER PC130-7 - 72642 and 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 inside the cab for reference and periodically reviewed by all personel who will come into contact with the machine.



FOREWORD

FOREWORD

FOREWORD

This manual provides rules and guidelines which will help you use this machine safely and effectively. The precautions in this manual must be followed at all times when performing operation and maintenance. Most accidents are caused by the failure to follow fundamental safety rules for the operation and maintenance of machines. Accidents can be prevented by knowing beforehand conditions that may cause a hazard when performing operation and maintenance.

▲ WARNING

Operators and maintenance personnel must always do as follows before beginning operation or maintenance.

Always be sure to read and understand this manual thoroughly before performing operation and maintenance.

Read the safety messages given in this manual and the safety labels affixed to the machine thoroughly and be sure that you understand them fully.

Keep this manual at the storage location for the Operation and Maintenance Manual given below, and have all personnel read it periodically.

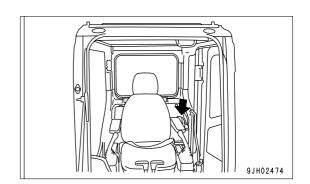
If this manual has been lost or has become dirty and cannot be read, request a replacement manual immediately from Komatsu or your Komatsu distributor.

If you sell the machine, be sure to give this manual to the new owners together with the machine.

Komatsu delivers machines that comply with all applicable regulations and standards of the country to which it has been shipped. If this machine has been purchased in another country or purchased from someone in another country, it may lack certain safety devices and specifications that are necessary for use in your country. If there is any question about whether your product complies with the applicable standards and regulations of your country, consult Komatsu or your Komatsu distributor before operating the machine.

Storage location for the Operation and Maintenance Manual:

magazine box on the left side of the operator's seat.



FOREWORD SAFETY INFORMATION

SAFETY INFORMATION

To enable you to use this machine safely, safety precautions and labels are given in this manual and affixed to the machine to give explanations of situations involving potential hazards and of the methods of avoiding such situations.

Signal words

The following signal words are used to inform you that there is a potential hazardous situation that may lead to personal injury or damage.

In this manual and on machine labels, the following signal words are used to express the potential level of hazard.



Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. This word is used also to alert against unsafe practices that may cause property damage.

Example of safety message using signal word

WARNING

When standing up from the operator's seat, always place the safety lock lever in the LOCK position. If you accidentally touch the control levers when they are not locked, this may cause a serious injury or death.

Other signal words

In addition to the above, the following signal words are used to indicate precautions that should be followed to protect the machine or to give information that is useful to know.

NOTICE

This word is used for precautions that must be taken to avoid actions which could shorten the life of the machine.

REMARKS

This word is used for information that is useful to know.

SAFETY INFORMATION FOREWORD

Safety labels

Safety labels are affixed to the machine to inform the operator or maintenance worker on the spot when carrying out operation or maintenance of the machine that may involve hazard.

This machine uses "Safety labels using words" and "Safety labels using pictograms" to indicate safety procedures.

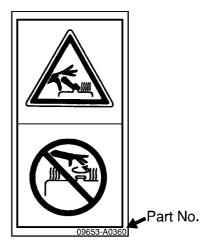
Example of safety label using words



Safety labels using pictogram

Safety pictograms use a picture to express a level of hazardous condition equivalent to the signal word. These safety pictograms use pictures in order to let the operator or maintenance worker understand the level and type of hazardous condition at all times.

Safety pictograms show the type of hazardous condition at the top or left side, and the method of avoiding the hazardous condition at the bottom or right side. In addition, the type of hazardous condition is displayed inside a triangle and the method of avoiding the hazardous condition is shown inside a circle.



Komatsu cannot predict every circumstance that might involve a potential hazard in operation and maintenance. Therefore, the safety messages in this manual and on the machine may not include all possible safety precautions.

If any procedures or actions not specifically recommended or allowed in this manual are used, it is your responsibility to take the necessary steps to ensure safety.

In no event should you engage in prohibited uses or actions described in this manual.

The explanations, values, and illustrations in this manual were prepared based on the latest information available at that time. Continuing improvements in the design of this machine can lead to changes in detail which may not be reflected in this manual. Consult Komatsu or your Komatsu distributor for the latest available information of your machine or for questions regarding information in this manual.

The numbers in circles in the illustrations correspond to the numbers in () in the text. (For example: ① -> (1))

FOREWORD SAFETY INFORMATION

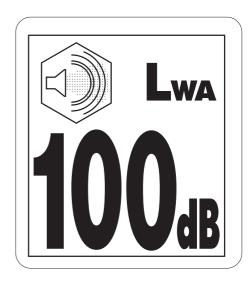
Noise emission levels

Two labels indicating the machine noise level are affixed on the machine

 Sound pressure level at the operator's station, measured according to ISO6396 (Dynamic test method, simulated working cycle).



 Sound power level emitted by the machine, measured according to ISO 6395 (Dynamic test method, simulated working cycle). This is the guaranteed value as specified in European directive 2000/14/EC.



Vibration levels

When used for its intended purpose, levels of vibration for the earth-moving machine transmitted from the operator's seat are lower than or equal to the tested vibrations for the relative machinery class in compliance with ISO 7096.

The actual acceleration value for the hands and arms is less than or equal to 2.5 m/s^2 . The actual acceleration value for the body is less than or equal to 0.5 m/s^2 .

These values were determined using a representative machine and measured during the typical operating condition indicated below according to the measurement procedures that are defined in the standards ISO 2631/1 and ISO 5349.

Operating condition:

(HYDRAULIC EXCAVATORS:) Excavating (Digging-loading-rotating-unloading-rotating)

SAFETY INFORMATION FOREWORD

Guide to Reduce Vibration Levels on Machine

The following guides can help an operator of this machine to reduce the whole body vibration levels:

- 1. Use the correct equipment and attachments.
- 2. Maintain the machine according to this manual
 - Tire pressures (for wheeled machines), tension of crawler (for crawler machines)
 - Brake and steering systems
 - Controls, hydraulic system and linkages
- 3. Keep the terrain where the machine is working and traveling in good condition
 - Remove any large rocks or obstacles
 - Fill any ditches and holes
 - Site manager should provide machine operators with machine and schedule time to maintain terrain conditions
- 4. Use a seat that meets ISO 7096 and keep the seat maintained and adjusted
 - Adjust the seat and suspension for the weight and size of the operator
 - Wear seat belt
 - Inspect and maintain the seat suspension and adjustment mechanisms
- 5. Steer, brake, accelerate, shift gears (for wheeled machines), and move the attachment levers and pedals slowly so that the machine moves smoothly
- 6. Adjust the machine speed and travel path to minimize the vibration level
 - When pushing with bucket or blade, avoid sudden loading; load gradually
 - Drive around obstacles and rough terrain conditions
 - Slow down when it is necessary to go over rough terrain
 - Make the curve radius of traveling path as large as possible
 - Travel at low speed when traveling around sharp curves
- 7. Minimize vibrations for long work cycle or long distance traveling
 - Reduce speed to prevent bounce
 - Transport machines long distances between worksites
- The following guidelines can be effective to minimize risks of low back pain
 - Operate the machine only when you are in good health.
 - Provide breaks to reduce long periods of sitting in the same posture
 - Do not jump down from the cab or machine
 - Do not repeatedly handle and lift loads

FOREWORD

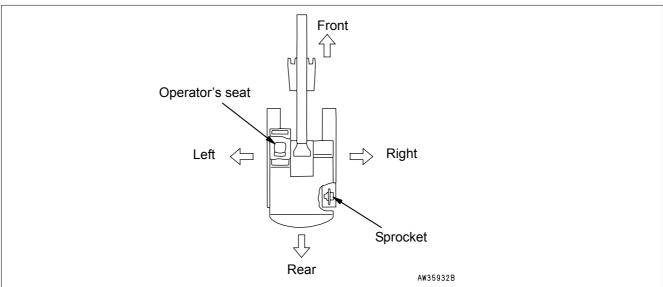
INTRODUCTION

This Komatsu machine is designed to be used mainly for the following work:

- Digging work
- Leveling work
- Ditching work
- Loading work
- Demolition work

See the section "RECOMMENDED APPLICATIONS (3-100)" for further details.

DIRECTIONS OF MACHINE



In this manual, the terms front, rear, left, and right refer to the travel direction as seen from the operator's seat when the operator's seat is facing the front and the sprocket is at the rear of the machine.

BREAKING-IN THE NEW MACHINE

NOTICE

Your Komatsu machine has been thoroughly adjusted and tested before shipment from the factory. However, operating the machine under full load before breaking the machine in can adversely affect the performance and shorten the machine life.

Be sure to break in the machine for the initial 100 hours (as indicated on the service meter).

Make sure that you fully understand the content of this manual, and pay careful attention to the following points when breaking in the machine.

- Run the engine at idling for 15 seconds after starting it. During this time, do not operate the control levers or fuel control dial.
- Idle the engine for 5 minutes after starting it up.
- Avoid operation with heavy loads or at high speeds.
- Immediately after starting the engine, avoid sudden starts, sudden acceleration, unnecessary sudden stops, and sudden changes in direction.

PRODUCT INFORMATION FOREWORD

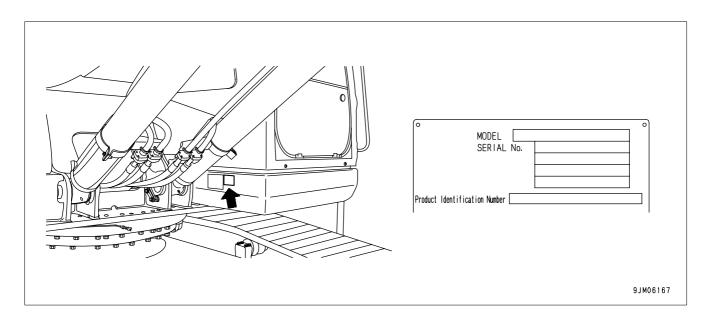
PRODUCT INFORMATION

When requesting service or ordering replacement parts, please inform your Komatsu distributor of the following items.

PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE

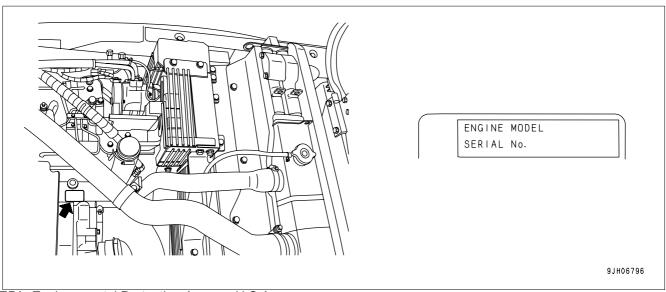
On the bottom right of the operator's cab

The design of the nameplate differs according to the territory.



ENGINE SERIAL NUMBER PLATE AND ITS LOCATION

On the upper side of the engine cylinder head cover.

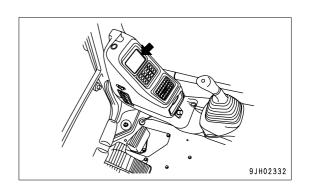


EPA: Environmental Protection Agency, U.S.A.

FOREWORD PRODUCT INFORMATION

SERVICE METER LOCATION

On top of the machine monitor

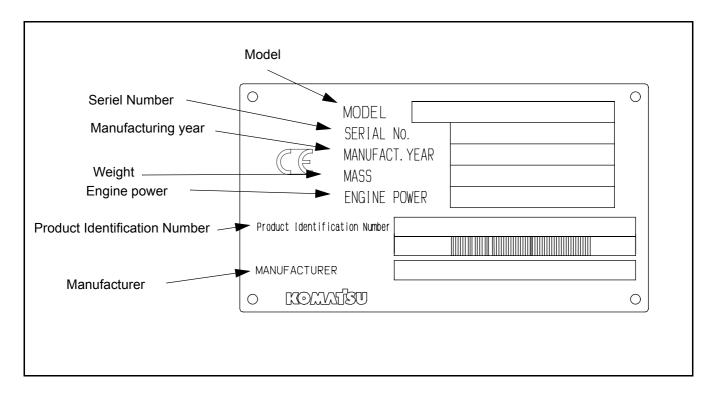


YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR

Machine serial No.	
Engine serial No.	
Product Identification Number	
Manufacturers name: Address:	KOMATSU UK Ltd. Durham Road Birtley Chester-Le street County Durham DH32QX United Kingdom
Distributor Address	
Phone	
Service personnel for your machine:	

PRODUCT INFORMATION FOREWORD

MACHINE SERIAL NUMBER PLATE



FOREWORD

CONTENTS

FOREWORD

FOREWORD	1-2
SAFETY INFORMATION	1-3
NOISE EMISSION LEVELS	1-5
VIBRATION LEVELS	1-5
GUIDE TO REDUCE VIBRATION LEVELS ON MACHINE	1-6
INTRODUCTION	1-7
DIRECTIONS OF MACHINE	1-7
BREAKING-IN THE NEW MACHINE	1-7
PRODUCT INFORMATION	1-8
PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE	1-8
ENGINE SERIAL NUMBER PLATE AND ITS LOCATION	1-8
SERVICE METER LOCATION	1-9
YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR	
MACHINE SERIAL NUMBER PLATE	1-10
SAFETY	
SAFETY INFORMATION	2-2
SAFETY LABELS	2-4
LOCATION OF SAFETY LABELS	2-4
SAFETY LABELS	2-5
SAFETY INFORMATION	2-13
SAFETY MACHINE OPERATION	2-23
STARTING ENGINE	2-23
OPERATION	2-25
TRANSPORTATION	2-32
BATTERY	2-33
TOWING	2-35
LIFTING OBJECTS WITH BUCKET	2-36
SAFETY MAINTENANCE INFORMATION	2-38
OPERATION	
MACHINE VIEW ILLUSTRATIONS	3-2
OVEDALL MACHINE VIEW	2.2

CONTROLS AND GAUGES	3-3
DETAILED CONTROLS AND GAUGES	3-4
MONITORING SYSTEM	3-4
BASIC CHECK MONITORS	3-5
CAUTION MONITORS	3-7
EMERGENCY MONITORS	3-9
METER DISPLAY PORTION	3-11
MONITOR SWITCHES PORTION	3-14
SWITCHES	3-17
CONTROL LEVERS AND PEDALS	3-23
SUN ROOF	3-26
WINDSHIELD	3-26
EMERGENCY EXIT FROM OPERATOR'S CAB	3-31
DOOR LOCK	3-31
CAP WITH LOCK	3-32
HOT AND COOL BOX	3-34
MAGAZINE BOX	3-34
ASHTRAY	3-34
AIR CONDITIONER CONTROLS	3-35
AIR CONDITIONER CONTROL PANEL	3-35
METHOD OF OPERATION	3-40
USE AIR CONDITIONER WITH CARE	3-46
INSPECTION AND MAINTENANCE OF AIR CONDITIONER EQUIPPED MACHINE	3-46
OTHER FUNCTIONS	3-47
CAB RADIO CASSETTE	3-48
CONTROLS OF RADIO CASSETTE	3-48
PRECAUTIONS WHEN USING	3-48
AUXILIARY ELECTRIC POWER	3-49
24V POWER SOURCE	3-49
12V POWER SOURCE	3-49
FUSE	3-50
FUSIBLE LINK	3-51
CONTROLLERS	3-51
TOOL BOX	3-51
GREASE GUN HOLDER	3-51
HANDLING GREASE GUN	3-52
REFUELLING PUMP	3-53
ACCUMULATOR	3-55
RELEASING HYDRAULIC PRESSURE WITH ACCUMULATOR	3-55
MACHINE OPERATIONS AND CONTROLS	3-56
BEFORE STARTING ENGINE	3-56
WALK-AROUND CHECKS	
CHECKS BEFORE STARTING	
ADJUSTMENT	
SEAT BELT	
OPERATIONS BEFORE STARTING ENGINE	3-70

	STARTING ENGINE	3-72
	NORMAL STARTING	3-72
	STARTING ENGINE IN COLD WEATHER	3-74
	AMBIENT TEMPERATURE RANGE FOR OPERATION	676
	AFTER STARTING ENGINE	3-76
	WARMING-UP OPERATION	3-76
	IN COLD WEATHER AREAS	3-79
	STOPPING THE ENGINE	3-83
	MACHINE OPERATION	3-84
	PREPARATIONS FOR MOVING THE MACHINE OFF	
	MOVING MACHINE FORWARD	3-85
	MOVING MACHINE BACKWARD	3-86
	STOPPING MACHINE	3-87
	STEERING THE MACHINE	3-88
	STEERING	3-88
	SWINGING	3-90
	WORK EQUIPMENT CONTROLS AND OPERATIONS	3-91
	WORKING MODE	3-93
	PROHIBITED OPERATIONS	
	GENERAL OPERATION INFORMATION	
	TRAVELING ON SLOPES	
	ESCAPE FROM MUD	
	STUCK ONE SIDE OF TRACK	
	STUCK BOTH SIDES OF TRACKS	
	RECOMMENDED APPLICATIONS	
	BACKHOE WORK	
	SHOVEL WORK	
	DITCHING WORK	
	LOADING WORK	
	BUCKET REPLACEMENT AND INVERSION	
	REPLACEMENT	
	INVERSION	
	PARKING MACHINE	
	CHECK AFTER SHUT OFF ENGINE	
	MACHINE INSPECTION AFTER DAILY WORK	
	LOCKING	
	OVERLOAD WARNING DEVICE	3-106
TRA	ANSPORTATION	3-107
	TRANSPORTATION PROCEDURE	3-107
	LOADING AND UNLOADING WITH TRAILER	
	LOADING	
	SECURING MACHINE	
	UNLOADING	
	LIFTING MACHINE	
CO	LD WEATHER OPERATION	3-117
	COLD WEATHER OPERATION INFORMATION	3-117

FUEL AND LUBRICANTS	3-117
COOLING SYSTEM COOLANT	3-117
BATTERY	3-118
AFTER DAILY WORK COMPLETION	3-119
AFTER COLD WEATHER SEASON	3-119
LONG TERM STORAGE	3-120
BEFORE STORAGE	3-120
DURING STORAGE	3-120
AFTER STORAGE	3-121
STARTING MACHINE AFTER LONG-TERM STORAGE	3-121
TROUBLES AND ACTIONS	3-122
RUNNING OUT OF FUEL	3-122
PHENOMENA THAT ARE NOT FAILURES	
TOWING THE MACHINE	3-123
LIGHTWEIGHT TOWING HOLE	
SEVERE JOB CONDITION	
DISCHARGED BATTERY	
BATTERY REMOVAL AND INSTALLATION	3-125
BATTERY CHARGES	
STARTING ENGINE WITH BOOSTER CABLES	3-127
OTHER TROUBLE	3-129
ELECTRICAL SYSTEM	
CHASSIS	3-130
ENGINE	
ELECTRONIC CONTROL SYSTEM	3-132
MAINTENANCE	
MAINTENANCE INFORMATION	4-2
LUBRICANTS, COOLANT AND FILTERS	4-5
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC	4-5
OIL	
FUEL	4-5
COOLING SYSTEM COOLANT	4-6
GREASE	4-6
CARRYING OUT KOWA (KOMATSU OIL WEAR ANALYSIS)	4-7
OIL AND FUEL STORAGE	4-8
FILTERS	4-8
ELECTRIC SYSTEM MAINTENANCE	4-8
WEAR PARTS	4-9
WEAR PARTS LIST	4-9
LUBRICANTS, FUEL AND COOLANT SPECIFICATIONS	4-10
PROPER SELECTION	4-10

TIGHTENING TORQUE SPECIFICATIONS	4-14
TIGHTENING TORQUE LIST	4-14
SAFETY CRITICAL PARTS	4-15
SAFETY CRITICAL PARTS LIST	4-15
MAINTENANCE SCHEDULE	4-16
MAINTENANCE SCHEDULE CHART	4-16
MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER	4-18
MAINTENANCE PROCEDURE	4-19
INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS)	4-19
INITIAL 1000 HOURS MAINTENANCE (ONLY AFTER THE FIRST 1000 HOURS)	4-19
WHEN REQUIRED	4-20
CHECK, CLEAN AND REPLACE AIR CLEANER ELEMENT	4-20
CLEAN INSIDE OF COOLING SYSTEM	4-25
CHECK AND TIGHTEN TRACK SHOE BOLTS	4-28
CHECK AND ADJUST TRACK TENSION	4-29
CHECK ELECTRICAL INTAKE AIR HEATER	4-31
REPLACE BUCKET TEETH (VERTICAL PIN TYPE)	4-32
REPLACE BUCKET TEETH (HORIZONTAL PIN TYPE)	4-35
ADJUST BUCKET CLEARANCE	4-36
CHECK WINDOW WASHER FLUID LEVEL, ADD FLUID	4-37
CHECK AND ADJUST AIR CONDITIONER	4-38
WASH WASHABLE FLOOR	4-39
BLEEDING AIR FROM HYDRAULIC SYSTEM	4-43
METHOD FOR RELEASING INTERNAL PRESSURE IN HYDRAULIC CIRCUIT	4-46
CHECK NITROGEN GAS CHARGE PRESSURE IN ACCUMULATOR (CONTROL CIRCUIT)	4-46
CHECK BEFORE STARTING	4-47
EVERY 100 HOURS MAINTENANCE	4-48
LUBRICATING	4-48
CHECK SWING MACHINERY CASE OIL, ADD OIL	4-50
EVERY 250 HOURS MAINTENANCE	4-51
CHECK OIL LEVEL IN FINAL DRIVE CASE, ADD OIL	4-51
CHECK LEVEL OF BATTERY ELECTROLYTE	4-52
EVERY 500 HOURS MAINTENANCE	4-55
REPLACE FUEL FILTER CARTRIDGE	4-55
CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE	4-56
CHECK SWING PINION GREASE LEVEL, ADD GREASE	4-57
LUBRICATE SWING CIRCLE	4-57
RADIATOR CORE AND FINS - CHECK/CLEAN	4-58
CLEAN AIR CONDITIONER FRESH/RECIRC FILTERS	4-59
REPLACE HYDRAULIC OIL FILTER ELEMENT	4-61
REPLACE BREATHER ELEMENT IN HYDRAULIC TANK	4-62
CHECK AND ADJUST COOLING FAN BELT TENSION	
CHECK, ADJUST AIR CONDITIONER COMPRESSOR BELT TENSION	4-64
EVERY 1000 HOURS MAINTENANCE	4-65
CHANGE OIL IN SWING MACHINERY CASE	4-65

CHANGE OIL IN FINAL DRIVE CASE	4-66
CHECK ALL TIGHTENING PARTS OF TURBOCHARGER	4-66
CHECK PLAY TURBOCHARGER ROTOR	4-66
CHECK NITROGEN GAS CHARGE PRESSURE IN ACCUMULATOR (FOR BREAKER)	4-66
EVERY 2000 HOURS MAINTENANCE	4-67
CHECK PTO GEAR CASE, ADD OIL	4-67
CLEAN HYDRAULIC TANK STRAINER	4-68
CLEAN, CHECK TURBOCHARGER	4-68
CHECK ALTERNATOR, STARTING MOTOR	4-68
CHECK ENGINE VALVE CLEARANCE, ADJUST	4-68
EVERY 4000 HOURS MAINTENENCE	4-69
CHECK WATER PUMP	4-69
EVERY 5000 HOURS MAINTENANCE	4-70
CHANGE OIL IN HYDRAULIC TANK	4-70
SPECIFICATIONS	
SPECIFICATIONS	5-2
EXPLANATION OF LIFTING CAPACITY CHART (PC130-7 1- PC BOOM)	5-5
EXPLANATION OF LIFTING CAPACITY CHART (PC130-7 2-PC BOOM)	5-7
ATTACHMENTS AND OPTIONS	
GENERAL PRECAUTIONS FOR SAFETY	
HYDRAULIC QUICK COUPLER PIPING	
LOCATIONS	_
OPERATION	
PRECAUTIONS WHEN SELECTING	
READ THE INSTRUCTION MANUAL THOROUGHLY	
PRECAUTIONS WHEN REMOVING OR INSTALLING	
PRECAUTIONS WHEN USING	6-6
BUCKET WITH HOOK	6-7
HOOK CONDITION	6-7
PROHIBITED OPERATIONS	6-7
MACHINE READY FOR ATTACHMENT	6-8
LOCATIONS	6-8
HYDRAULIC CIRCUIT	6-11
HYDRAULIC CIRCUIT CONNECTION	6-11
ATTACHMENT REMOVAL AND INSTALLATION	6-12
ATTACHMENT REMOVAL	6-12
ATTACHMENT INSTALLATION	6-12
ATTACHMENT OPERATIONS	6-14
WHEN USING BREAKER	6-14
WHEN USING GENERAL ATTACHMENT SUCH AS CRUSHER	6-15

CONTENTS

CRUSHER CONTROL FOR ROTATION	6 16
ACCUMULATOR	
HYDRAULIC SYSTEM - PRESSURE RELEASE	
LONG TERM STORAGE	
SPECIFICATIONS	
OF LOW TO ATTOMO	0-10
ATTACHMENT GUIDE	6-19
OTHER ATTACHMENTS	6-19
ATTACHMENT COMBINATIONS	6-20
TRACK SHOES SELECTION	6-21
BUCKET TEETH SELECTION	6-22
TEETH SELECTION	6-22
SELECTION GUIDE FOR HORIZONTAL OR VERTICAL PIN TYPE TOOTH	6-22
HANDLING OF RUBBER PAD SHOE AND ROAD LINER	6-23
WORKING ENVIRONMENT	6-23
WORKING CONDITIONS	6-23
STORAGE, PROTECTION	6-24
EXTENT OF DAMAGE TO RUBBER	6-24
CHECK ROAD LINER	6-24
REPLACE ROAD LINER	6-24
DECOMMENDED ATTACHMENT OPEDATIONS	0.05
RECOMMENDED ATTACHMENT OPERATIONS	
HYDRAULIC BREAKER	6-25
2-PC BOOM	6-29
FEATURES OF 2-PIECE BOOM & ARM	
OPERATION	
BEFORE STORAGE POSTURE WHEN LEAVING MACHINE	
TESTING AND ADJUSTING	
PERODIC MAINTENANCE	
TRANSPORTATION	
HANDLING MACHINES EQUIPPED WITH KOMTRAX	6-34
BASIC PRECAUTIONS	6-34
SUPER LONG FRONT BOOM AND ARM	6 35
OPERATION INSTRUCTION	
WORKING MODES	
CHECKS BEFORE STARTING	
USING SUPER LONG FRONT	
METHOD OF WORK	
WHEN TRAVELLING	
CONTROL LEVERS, PEDALS	
SAFETY LOCK LEVER (1)	
TRAVEL LEVERS (WITH PEDAL, AUTO-DECELERATION MECHANISM) (2)	
LEFT WORK EQUIPMENT CONTROL LEVER (3)	
RIGHT WORK EQUIPMENT CONTROL LEVER (4)	
MACHINE OPERATION	
PRECAUTIONS FOR OPERATION OF SUPER LONG FRONT	6-43

TRANSPORT & STORAGE OF SUPER LONG FRONT MACHINE	6-44
INSTALLATION OF SUPPORTING LINK	6-44
TRANSPORTATION OF SUPER LONG FRONT MACHINE	6-44
WORKING RANGE OF SUPER LONG FRONT	6-45
LIFTING CAPACITY PC130 SUPER LONG FRONT	6-46
MAINTENANCE	6-47
SPECIAL SERVICE REQUIREMENTS FOR SUPER LONG FRONT WORK EQUIPMENT	6-47
LUBRICATING	6-47

INDEX

COLOPHON

SAFETY

WARNING

Please be sure that you fully understand this manual and the precautions discribed in this manual and the safety labels on the machine. When operating or servicing the machine, always follow these precaustions strictly.

SAFETY INFORMATION

SAFETY LABELS	2-4
LOCATION OF SAFETY LABELS	2-4
SAFETY LABELS	
SAFETY INFORMATION	
SAFETT INFORMATION	
Safety Rules	2-13
If Abnormalities are Found	
Working Wear and Personal Protective Items	2-13
Fire Extinguisher and First Aid Kit	
Safety Equipment	
Keep Machine Clean	2-14
Keep Operator's Compartment Clean	2-14
Leaving Operator's Seat with Lock	2-14
Handrails and Steps	2-15
Mounting and Dismounting	2-16
No Persons on Attachments	2-16
Burn Prevention	
Fire Prevention and Explosion Prevention	2-17
Action If Fire Occurs	2-18
Windshield Washer Fluid	2-18
Falling Objects, Flying Objects and Intruding Objects Prevention	2-18
Attachment Installation	2-19
Attachment Combinations	2-19
Cab Widow Glasses	2-19
Unauthorized Modifications	2-19
Safety at Jobsite	2-19
Working on Loose Ground	2-20
Distance to High Voltage Cables	2-20
Ensure Good Visibility	2-21
Ventilation for Enclosed Area	2-21
Signalman's Signal and Signs	
Emergency Exit from Operator's Cab	2-21
Asbestos Dust Hazard Prevention	2-22

SAFETY MACHINE OPERATION	2-23
STARTING ENGINE	2-23
Checks before starting engine	2-23
Safety rules for starting engine	2-23
Starting engine in cold weather	2-24
OPERATION	2-25
Checks before operation	2-25
Safety rules for changing machine directions	2-26
Safety rules for traveling	2-27
Traveling on slopes	2-28
Operations on slopes	2-29
Prohibited operations	2-29
Operations on snow	
Parking machine	
TRANSPORTATION	2-32
Loading and unloading	
Shipping the machine	
BATTERY	
Battery hazard prevention	
Starting engine with booster cables	
TOWING	
Safety rules for towing	
LIFTING OBJECTS WITH BUCKET	
Lifting work using bucket with hook	
Safety rules for lifting objects	
SAFETY MAINTENANCE INFORMATION	2-38
Warning tag	
Keep work place clean and tidy	
Appoint leader when working with others	
Stop engine before carrying out maintenance	
Two workers for maintenance when engine is running	
Proper tools	
Accumulator	
Personnel	
Attachments	
Work under the machine	
Noise	
When using hammer	
Welding works	
Removing battery terminals	
Safety first when using high-pressure grease to adjust track tension	
Do not disassemble recoil springs	
Safety rules for high-pressure oil	
Safety handling high-pressure hoses	
Waste materials	
Air conditioner maintenance	
All collulioner maintenance	2-43
	2-43 2-44
Compressed air Periodic replacement of safety critical parts	

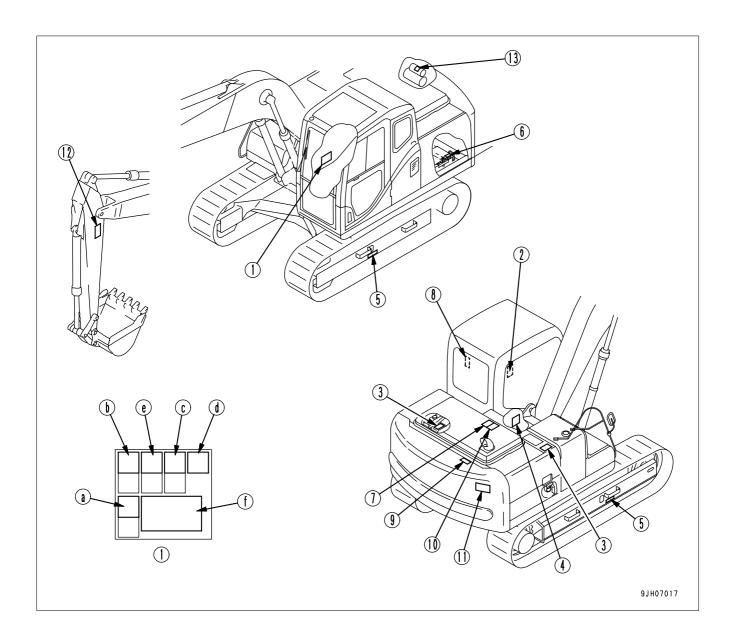
SAFETY LABELS SAFETY

SAFETY LABELS

The following warning signes and safety labels are used on this machine.

- Be sure that you fully understand the correct position and content of labels.
- To ensure that the content of labels can be read properly, be sure that they are in the correct place and always keep them clean. When cleaning them, do not use organic solvents or gasoline. These may cause the labels to peel off.
- There are also other labels in addition to the warning signes and safety labels. Handle those labels in the same way.
- If the labels are damaged, lost, or cannot be read properly, replace them with new ones. For details of the part numbers for the labels, see this manual or the actual label, and place an order with Komatsu distributor.

LOCATION OF SAFETY LABELS

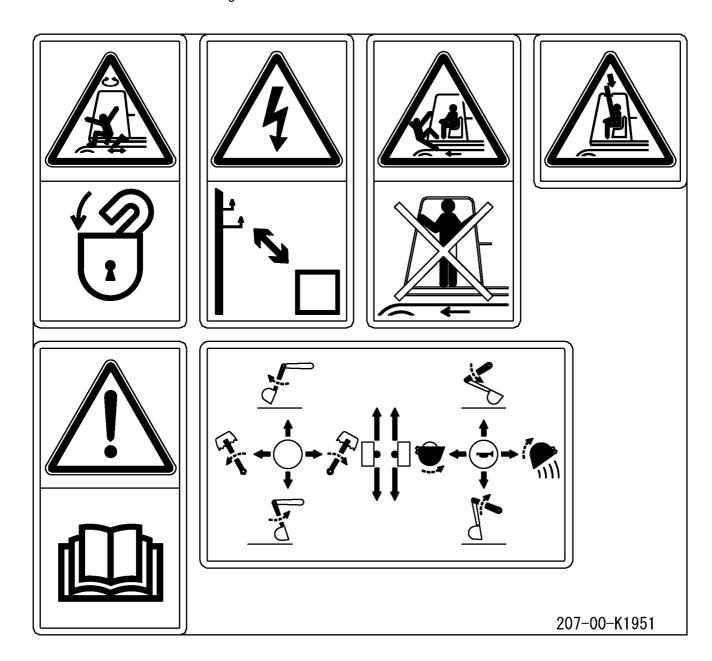


SAFETY

SAFETY LABELS

(1) (207-00-K1951)

- Warnings for operation, inspection and maintenance.
- Improper operation and maintenance can cause serious injury or death.
- Read the manual and labels before operation and maintenance. Follow instructions and warnings in manual and in labels on machine.



SAFETY LABELS SAFETY

(a) Keep the manual in machine cab near operator.

If this manual is lost, please contact your Komatsu distributor for a replacement.



(b) Always apply lock when leaving operator's seat.



(c) WARNING - No passengers

No passengers allowed to ride on machine while it is moving.



SAFETY

(d) WARNING - DANGER OF FALLING OBJECTS

Do not operate where a danger of falling objects exists.

Consult your dealer for fitting of FOPS protections.

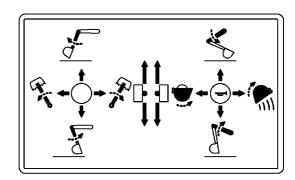


(e) HAZARDOUS - Voltage hazard

Serious injury or death can occur if machine or attachments are not kept safe distance away from electric lines.



(f) Control levers operational function diagram.



SAFETY LABELS SAFETY

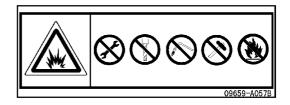
- (2) Precautions when stowing front window (09803-A0481)
- When the front window is stowed, there is the hazard that it will fall.
- Always lock the front window securely at the stowed position



- (3) Precautions for high-temperature coolant, hydraulic oil (09653-A0481)
- Never remove the cap when the engine is at operating (high) temperature. Steam or high temperature oil blowing up from the radiator or hydraulic tank, will cause personal injury and/or burns.
- Never remove the radiator cap or hydraulic tank oil filler when cooling water or hydraulic oil is at high temperature.



- (4) Precautions when handling accumulator (09659-A057B)
- There is the hazard of explosion causing injury.
- Do not disassemble the accumulator, make holes in it, weld it cut it, hit it, roll it or bring it near flame



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