TEN00677-03

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC78US-10

SERIAL NUMBERS 30001 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 near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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TABLE OF CONTENTS

FOREWORD ... 1-1
READ THIS MANUAL ... 1-2
SAFETY INFORMATION ... 1-3
INTRODUCTION ... 1-4
MAIN USE OF MACHINE ... 1-4
DIRECTIONS OF MACHINE ... 1-4
VISIBILITY FROM OPERATOR'S SEAT ... 1-5
PRODUCT INFORMATION ... 1-6
LOCATION OF PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE ... 1-6
LOCATION OF ENGINE NUMBER PLATE ... 1-6
SERVICE METER LOCATION ... 1-7
YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR ... 1-7
SAFETY ... 2-1
SAFETY LABELS ... 2-2
LOCATION OF SAFETY LABELS ... 2-3
CONTENTS OF SAFETY LABELS ... 2-5
GENERAL PRECAUTIONS COMMON TO OPERATION AND MAINTENANCE ... 2-13
PRECAUTIONS BEFORE STARTING OPERATION ... 2-13
PREPARATIONS FOR SAFE OPERATION ... 2-13
PRECAUTIONS TO PREVENT FIRE ... 2-15
PRECAUTIONS WHEN GETTING ON OR OFF MACHINE ... 2-17
DO NOT GET CAUGHT IN WORK EQUIPMENT ... 2-18
PRECAUTIONS RELATED TO PROTECTIVE STRUCTURES ... 2-19
PROTECTION AGAINST FALLING, FLYING OR INTRUDING OBJECTS ... 2-19
UNAUTHORIZED MODIFICATION ... 2-20
PRECAUTIONS RELATED TO ATTACHMENTS AND OPTIONS ... 2-20
PRECAUTIONS RELATED TO CAB GLASS ... 2-20
PRECAUTIONS WHEN RUNNING ENGINE INSIDE BUILDING ... 2-20
PRECAUTIONS FOR OPERATION ... 2-21
PRECAUTIONS FOR JOBSITE ... 2-21
START ENGINE ... 2-23
PRECAUTIONS FOR OPERATION ... 2-25
PRECAUTIONS FOR TRANSPORTATION ... 2-33
TOWING AND BEING TOWED ... 2-34
LIFTING OPERATION BY USING BUCKET WITH HOOK ... 2-35
PRECAUTIONS FOR MAINTENANCE ... 2-36
PRECAUTIONS BEFORE STARTING INSPECTION AND MAINTENANCE ... 2-36
PRECAUTIONS FOR CHECK AND MAINTENANCE ... 2-39
OPERATION ... 3-1
GENERAL VIEW ... 3-2
MACHINE EQUIPMENT NAME ... 3-2
CAB EQUIPMENT NAMES ... 3-4
CONTROLS AND GAUGES NAMES ... 3-5
EXPLANATION OF COMPONENTS ... 3-8
EXPLANATION OF MACHINE MONITOR EQUIPMENT ... 3-8
SWITCHES ... 3-81
CONTROL LEVERS AND PEDALS ... 3-87
OTHER EQUIPMENT ... 3-92
MACHINE OPERATIONS AND CONTROLS ... 3-112
CHECKS AND ADJUSTMENT BEFORE STARTING ENGINE ... 3-112
METHOD FOR STARTING ENGINE ... 3-134
METHOD FOR OPERATIONS AND CHECKS AFTER STARTING ENGINE ... 3-139
METHOD FOR STOPPING ENGINE ... 3-150
METHOD FOR STARTING MACHINE (TRAVEL FORWARD AND REVERSE) AND STOPPING MACHINE ... 3-151
METHOD FOR STEERING MACHINE ... 3-155

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METHOD FOR SWINGING MACHINE 3-157
METHOD FOR OPERATING WORK EQUIPMENT 3-157
HANDLE WORKING MODE 3-159
PROHIBITED OPERATIONS 3-161
PRECAUTIONS FOR OPERATION 3-166
PRECAUTIONS FOR WORKING ON SLOPE 3-168
METHOD FOR ESCAPING FROM MUD 3-170
RECOMMENDED APPLICATIONS 3-171
METHOD FOR REPLACING AND INVERTING BUCKET 3-173
METHOD FOR PARKING MACHINE 3-176
METHOD FOR CHECKING AFTER FINISHING WORK 3-177
LOCK 3-178
HANDLE AIR CONDITIONER 3-187
EXPLANATION OF AIR CONDITIONER EQUIPMENT 3-188
METHOD FOR OPERATING AIR CONDITIONER 3-193
HANDLE RADIO 3-200
EXPLANATION OF RADIO EQUIPMENT 3-200
METHOD FOR CONTROLLING RADIO 3-203
STOW ANTENNA 3-205
HANDLE ROAD LINERS AND RUBBER SHOES 3-206
RECOMMENDED USE OF ROAD LINERS AND RUBBER SHOES 3-206
WARRANTY OF ROAD LINERS AND RUBBER SHOES 3-206
PRECAUTIONS WHEN USING ROAD LINERS AND RUBBER SHOES 3-207
TRANSPORTATION 3-210
PRECAUTIONS FOR TRANSPORTING MACHINE 3-210
SELECT TRANSPORTATION METHOD 3-210
LOADING AND UNLOADING WITH TRAILER 3-211
METHOD FOR LIFTING MACHINE 3-217
COLD WEATHER OPERATION 3-219
COLD WEATHER OPERATION INFORMATION 3-219
PRECAUTIONS AFTER DAILY WORK COMPLETION 3-220
AFTER COLD WEATHER SEASON 3-220
PRECAUTIONS FOR LONG-TERM STORAGE 3-221
PREPARATION FOR LONG-TERM STORAGE 3-221
MAINTENANCE DURING LONG-TERM STORAGE 3-221
STARTING MACHINE AFTER LONG-TERM STORAGE 3-222
TROUBLES AND ACTIONS 3-223
ACTIONS WHEN RUNNING OUT OF FUEL 3-223
PHENOMENA THAT ARE NOT FAILURES 3-224
PRECAUTIONS FOR TOWING MACHINE 3-225
PRECAUTIONS FOR SEVERE JOB CONDITION 3-225
PRECAUTIONS FOR DISCHARGED BATTERY 3-226
OTHER TROUBLE 3-232
MAINTENANCE 4-1
PRECAUTIONS FOR MAINTENANCE 4-2
CHECK SERVICE METER READING 4-2
KOMATSU GENUINE REPLACEMENT PARTS 4-2
KOMATSU GENUINE LUBRICANTS 4-2
ALWAYS USE CLEAN WASHER FLUID 4-2
FRESH AND CLEAN LUBRICANTS 4-2
CHECK DRAINED OIL AND USED FILTER 4-2
PRECAUTIONS FOR REFILLING OIL OR FUEL 4-2
PRECAUTIONS FOR WELDING 4-2
DO NOT DROP THINGS INSIDE MACHINE 4-2
DUSTY JOBSITES 4-3
AVOID MIXING OIL 4-3
LOCK INSPECTION COVERS 4-3
BLEED AIR FROM HYDRAULIC CIRCUIT 4-3

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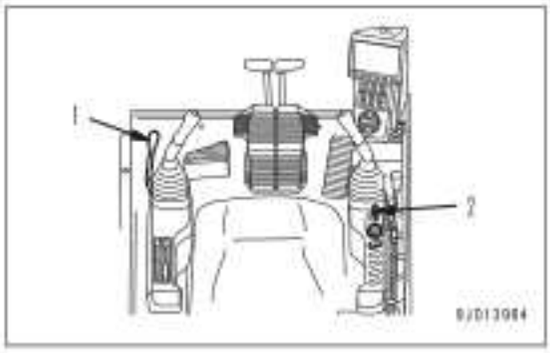
PRECAUTIONS WHEN INSTALLING HYDRAULIC HOSES 4-3
CHECKS AFTER INSPECTION AND MAINTENANCE 4-3
FUEL AND LUBRICANTS TO MATCH THE AMBIENT TEMPERATURE 4-3
OUTLINE OF MAINTENANCE 4-4
HANDLE OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC 4-4
HANDLE ELECTRICAL COMPONENTS 4-7
STANDARD TIGHTENING TORQUE FOR BOLTS AND NUTS 4-8
MAINTENANCE SCHEDULE 4-10
MAINTENANCE SCHEDULE TABLE 4-10
MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER 4-11
MAINTENANCE INTERVAL WHEN DIESEL FUEL MIXED WITH BIO-FUEL IS USED 4-12
MAINTENANCE PROCEDURE 4-13
WHEN REQUIRED 4-13
CHECKS BEFORE STARTING 4-54
EVERY 100 HOURS MAINTENANCE 4-55
EVERY 250 HOURS MAINTENANCE 4-57
EVERY 500 HOURS MAINTENANCE 4-63
EVERY 1000 HOURS MAINTENANCE 4-75
EVERY 2000 HOURS MAINTENANCE 4-83
EVERY 4000 HOURS MAINTENANCE 4-91
EVERY 5000 HOURS MAINTENANCE 4-94
SPECIFICATIONS 5-1
SPECIFICATIONS 5-2
ATTACHMENTS AND OPTIONS 6-1
GENERAL PRECAUTIONS 6-2
HANDLE BUCKET WITH HOOK 6-4
PRECAUTIONS FOR OPERATION 6-4
HANDLE MACHINE READY FOR INSTALLATION OF ATTACHMENT 6-5
EXPLANATION OF COMPONENTS 6-5
HYDRAULIC CIRCUIT 6-8
METHOD FOR REMOVING AND INSTALLING ATTACHMENT 6-9
METHOD FOR OPERATING ATTACHMENT 6-15
LONG-TERM STORAGE 6-19
SPECIFICATIONS 6-19
METHOD FOR CHANGING CONTROL PATTERNS (FOR MACHINES EQUIPPED WITH OPERATION PATTERN CHANGE-OVER VALVE) 6-20
CONTROL PATTERNS OTHER THAN STANDARD CONTROL METHOD 6-22
ATTACHMENTS AND OPTIONS 6-23
OPTIONAL PARTS AND ATTACHMENT 6-23
INSTALL ATTACHMENT 6-24
TRACK SHOES SELECTION 6-25
RECOMMENDED ATTACHMENT OPERATIONS 6-26
HYDRAULIC BREAKER 6-26
BREAKERS 6-31
MACHINES NOT EQUIPPED WITH REAR VIEW CAMERA 6-34
MACHINE MONITOR EQUIPMENT NAME 6-34
EXPLANATION OF MACHINE MONITOR EQUIPMENT 6-35
REPLACEMENT PARTS 7-1
PERIODIC REPLACEMENT OF DEFINED LIFE PARTS 7-2
DEFINED LIFE PARTS LIST 7-2
CONSUMABLE PARTS 7-3
CONSUMABLE PARTS LIST 7-3
RECOMMENDED FUEL, COOLANT, AND LUBRICANT 7-4
LUBRICATION CHART 7-4
METHOD FOR USING FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE 7-6
RECOMMENDED BRANDS AND QUALITIES OTHER THAN KOMATSU GENUINE OILS 7-7
INDEX 8-1

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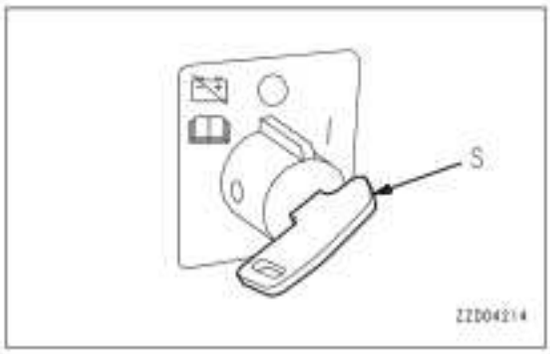
METHOD FOR OPERATIONS AND CHECKS BEFORE STARTING ENGINE

⚠ WARNING

When starting the engine, check that the lock lever is securely at LOCK position.
If the lock lever is not locked securely and the control levers or control pedal are touched when the engine is started, the machine may move unexpectedly, and this may lead to serious personal injury or death.

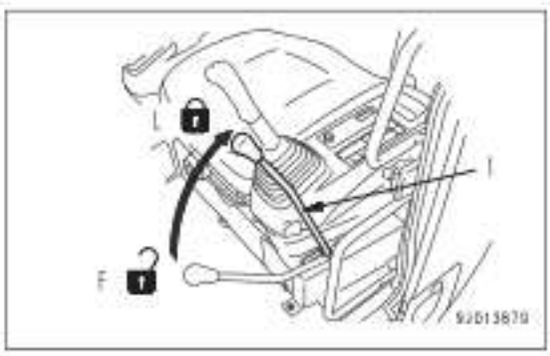


1. Check that battery disconnect switch (S) is in ON position (I).

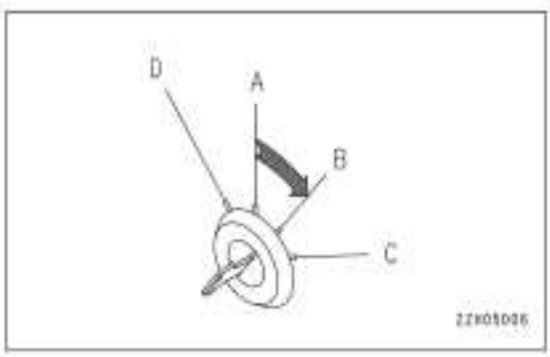


2. Check that lock lever (1) is at LOCK position (L).
3. Check that all control levers and control pedals are at NEUTRAL position.

   If the control levers and control pedals are not being touched, they will be at NEUTRAL position.



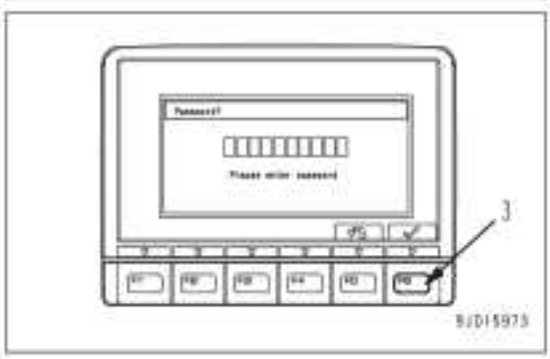
4. Insert the key into starting switch (2) and turn it to ON position (B).



- If a password is set, the input display screen will be indicated on the monitor screen. On the input display screen displayed on the monitor, input the password and push input confirmation switch F6 (3).

  REMARK

  Contact your Komatsu distributor for details of the method of setting, changing, or canceling the password.



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PRECAUTIONS FOR MAINTENANCE

Do not perform any inspection and maintenance operation that are not found in this manual.

CHECK SERVICE METER READING

Check the service meter reading every day to see if the maintenance time has come for any necessary maintenance item to be performed.

KOMATSU GENUINE REPLACEMENT PARTS

Komatsu recommends using Komatsu genuine parts specified in Parts Book as replacement parts.

KOMATSU GENUINE LUBRICANTS

For lubrication of the machine, Komatsu recommends using Komatsu genuine lubricants. Moreover use oil of the specified viscosity according to the ambient temperature.

ALWAYS USE CLEAN WASHER FLUID

Use automobile window washer fluid, and be careful not to let any dirt get into it.

FRESH AND CLEAN LUBRICANTS

Use clean oil and grease. Also, keep the containers of the oil and grease clean. Keep foreign materials away from oil and grease.

CHECK DRAINED OIL AND USED FILTER

At the replacement of the filters when oil is changed, check the old oil and filters for metal particles and foreign materials. If large quantity of metal particles or foreign materials are found, always report to the person in charge, and perform suitable action.

PRECAUTIONS FOR REFILLING OIL OR FUEL

If your machine is equipped with a strainer, do not remove it while filling oil or fuel.

PRECAUTIONS FOR WELDING

- When conducting weld repair, turn the starting switch to OFF position and, after confirming that the system operating lamp is turned off, set the battery disconnect switch key to OFF position and pull it out.
- Do not apply a voltage higher than 200 V continuously.
- Connect grounding cable within 1 m {3 ft 3 in} of the area to be welded. If grounding cable is connected near instruments, connectors, etc., the instruments may malfunction.
- Prevent seals, bearings or bushings from entering the space between the weld zone and grounding point. Seals and the like can cause damage to the nearby parts by catching fire from sparks.
- Do not use the area around the work equipment pins or the hydraulic cylinders as the grounding point. Sparks generated there can damage the plated portion.

DO NOT DROP THINGS INSIDE MACHINE

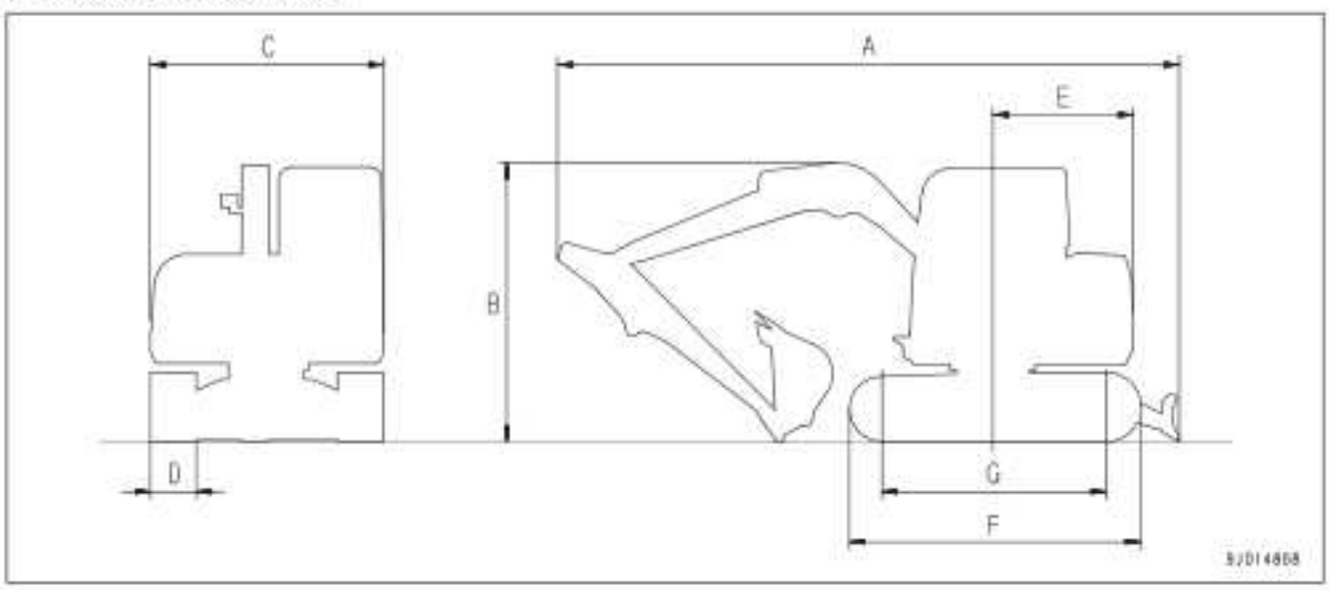
- When opening the inspection windows or the oil filler port of the tank to perform inspection, be careful not to drop nuts, bolts, or tools inside the machine.
  If such things are dropped inside the machine, it may cause damage and/or malfunction of the machine, and will lead to failure. If anything drops, be sure to take it out.
- Do not put unnecessary things in your pockets. Carry only things which are necessary for inspection.

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SPECIFICATIONS

	Item		Unit	Road liner specification
	Machine weight (including blade)		kg { lb}	7850 {17300}
	Bucket capacity		m^3 { cu.yd}	0.20 {0.26}
	Engine model		-	Komatsu SAA4D95LE-6 diesel engine
	Rated horse-power	SAE J1995 (Gross)	kW {HP} / min^{-1} {rpm}	50.7 {68.0} / 1950 {1950}
		ISO 9249/ SAE J1349 (Net)		48.8 {65.5} / 1950 {1950}
A	Overall length		mm {ft in}	6270 {20' 7"}
B	Overall height		mm {ft in}	2945 {9' 8"}
C	Overall width		mm {ft in}	2330 {7' 8"}
D	Shoe width		mm {ft in}	450 {1' 6"}
E	Tail swing radius		mm {ft in}	1390 {4' 7"}
F	Overall length of track		mm {ft in}	2890 {9' 6"} 2840 {9' 4"} (*1)
G	Distance between tumbler centers		mm {ft in}	2235 {7' 4"}
	Min. ground clearance		mm {ft in}	410 {1' 4"} 360 {1' 2"} (*1)
	Travel speed (Lo/Hi)		km/h { MPH}	2.8 / 5.0 {1.7 / 3.1}
	Continuous swing speed		rpm	10.0

(*1): Steel shoe specification



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