TEN00509-03

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC240LC-10

SERIAL NUMBERS 90001 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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CONTENTS (PC-0310-001-A-00-A)

FOREWORD 1-1
BEFORE READING THIS MANUAL 1-2
SAFETY INFORMATION 1-3
INTRODUCTION 1-4
USE OF MACHINE 1-4
DIRECTIONS OF MACHINE 1-4
VISIBILITY FROM OPERATOR'S SEAT 1-4
PRODUCT INFORMATION 1-5
PRODUCT IDENTIFICATION NUMBER (PIN) / MACHINE SERIAL NO. PLATE 1-5
EPA REGULATIONS, ENGINE NUMBER PLATE 1-5
SERVICE METER LOCATION 1-6
YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR 1-6
CONTENTS 1-7
SAFETY 2-1
SAFETY 2-2
SAFETY LABELS 2-4
LOCATION OF SAFETY LABELS 2-5
SAFETY LABELS 2-6
GENERAL PRECAUTIONS COMMON TO OPERATION AND MAINTENANCE 2-14
PRECAUTIONS BEFORE STARTING OPERATION 2-14
PREPARATIONS FOR SAFE OPERATION 2-15
FIRE PREVENTION 2-17
PRECAUTIONS WHEN GETTING ON OR OFF MACHINE 2-19
DO NOT GET CAUGHT IN WORK EQUIPMENT 2-20
PRECAUTIONS RELATED TO PROTECTIVE STRUCTURES 2-21
PROTECTION AGAINST FALLING, FLYING, OR INTRUDING OBJECTS 2-22
UNAUTHORIZED MODIFICATION 2-22
PRECAUTIONS RELATED TO ATTACHMENTS AND OPTIONS 2-23
PRECAUTIONS RELATED TO CAB GLASS 2-23
PRECAUTIONS WHEN RUNNING ENGINE INSIDE BUILDING 2-23
PRECAUTIONS FOR OPERATION 2-24
PRECAUTIONS FOR JOBSITE 2-24
STARTING ENGINE 2-27
OPERATION 2-30
TRANSPORTATION 2-37
TOWING 2-38
SAFETY RULES FOR LIFTING OPERATIONS 2-39
PRECAUTIONS FOR MAINTENANCE 2-40
PRECAUTIONS BEFORE STARTING INSPECTION AND MAINTENANCE 2-40
PRECAUTIONS FOR INSPECTION AND MAINTENANCE 2-44
OPERATION 3-1
GENERAL VIEW 3-2
GENERAL VIEW OF MACHINE 3-2
GENERAL VIEW OF CAB 3-4
GENERAL VIEW OF CONTROLS AND GAUGES 3-5
EXPLANATION OF COMPONENTS 3-7
MACHINE MONITOR 3-7
SWITCHES 3-66
CONTROL LEVERS AND PEDALS 3-74
OPENING AND CLOSING CEILING WINDOW 3-77
OPENING AND CLOSING CAB FRONT WINDOW 3-78
EMERGENCY ESCAPE HAMMER 3-83
DOOR LOCK 3-83
CAB DOOR HINGE 3-84
OPENING AND CLOSING ENGINE HOOD 3-85
CAPS AND COVERS WITH LOCK 3-90
DRINK BOX 3-93

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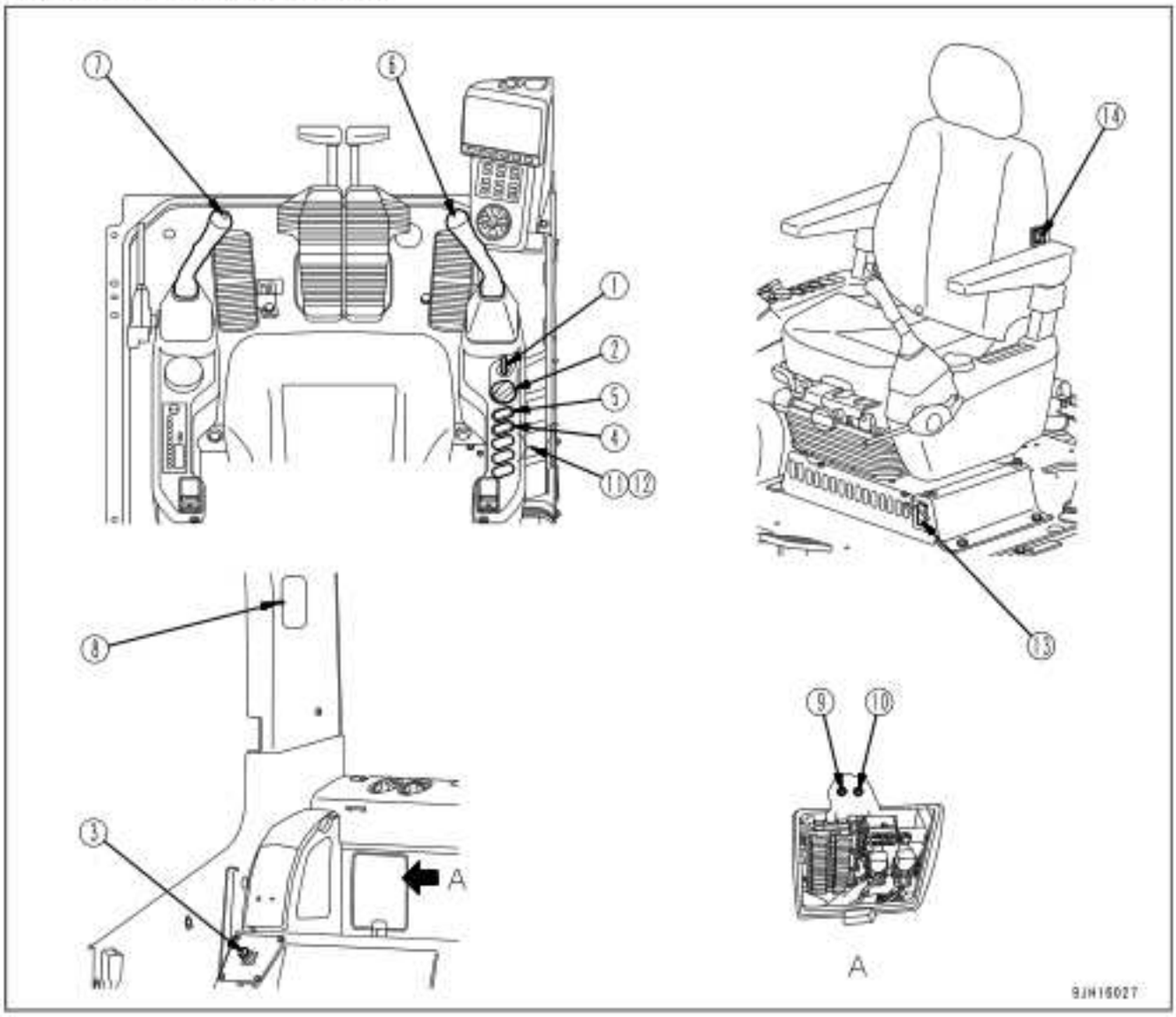
MAGAZINE BOX 3-93
CUP HOLDER 3-93
ASHTRAY 3-94
HANDLING AIR CONDITIONER 3-95
HANDLING RADIO 3-107
AUXILIARY ELECTRIC POWER 3-112
FUSE 3-113
FUSIBLE LINK 3-114
TOOL BOX 3-115
GREASE PUMP HOLDER 3-115
FIRE EXTINGUISHER 3-115
BATTERY DISCONNECT SWITCH 3-116
SYSTEM OPERATING LAMP 3-117
HANDLING Komatsu Diesel Particulate Filter (KDPF) 3-118
HANDLING Komatsu Closed Crankcase Ventilation (KCCV) 3-128
HANDLING MACHINES EQUIPPED WITH KOMTRAX 3-129
MACHINE OPERATIONS AND CONTROLS 3-131
CHECKS AND ADJUSTMENT BEFORE STARTING ENGINE 3-131
STARTING ENGINE 3-152
OPERATIONS AND CHECKS AFTER STARTING ENGINE 3-155
STOPPING ENGINE 3-167
MACHINE OPERATION 3-168
STEERING MACHINE 3-172
SWINGING MACHINE 3-174
WORK EQUIPMENT CONTROLS AND OPERATIONS 3-175
WORKING MODE 3-177
PROHIBITED OPERATIONS 3-180
RULES FOR OPERATION 3-183
TRAVELING ON SLOPES 3-185
ESCAPE FROM MUD 3-187
RECOMMENDED APPLICATIONS 3-188
REPLACING AND INVERTING BUCKET 3-190
WHEN PARKING MACHINE 3-193
AFTER DAILY WORK COMPLETION 3-194
LOCKING 3-195
TRANSPORTATION 3-196
TRANSPORTATION PROCEDURE 3-196
LOADING AND UNLOADING WITH TRAILER 3-197
LIFTING MACHINE 3-208
COLD WEATHER OPERATION 3-212
COLD WEATHER OPERATION INFORMATION 3-212
AFTER DAILY WORK COMPLETION 3-214
AFTER COLD WEATHER SEASON 3-214
LONG-TERM STORAGE 3-215
BEFORE STORAGE 3-215
DURING STORAGE 3-215
AFTER STORAGE 3-216
STARTING MACHINE AFTER LONG-TERM STORAGE 3-216
TROUBLES AND ACTIONS 3-217
RUNNING OUT OF FUEL 3-217
PHENOMENA THAT ARE NOT FAILURES 3-217
TOWING MACHINE 3-218
LIGHTWEIGHT TOWING HOLE 3-219
SEVERE JOB CONDITION 3-219
DISCHARGED BATTERY 3-220
OTHER TROUBLE 3-224
MAINTENANCE 4-1
RULES FOR MAINTENANCE 4-2

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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
CAUTION FOR REFILLING OIL OR FUEL 4-2
WELDING INSTRUCTIONS 4-2
DO NOT DROP THINGS INSIDE MACHINE 4-2
DUSTY JOBSITES 4-2
AVOID MIXING OIL 4-3
LOCKING INSPECTION COVERS 4-3
BLEEDING AIR FROM HYDRAULIC CIRCUIT 4-3
PRECAUTIONS WHEN INSTALLING HYDRAULIC HOSES 4-3
CHECKS AFTER INSPECTION AND MAINTENANCE 4-3
FUEL AND LUBRICANTS TO MATCH THE AMBIENT TEMPERATURE 4-3
CLOSE ENGINE HOOD SECURELY 4-3
OUTLINE OF SERVICE 4-4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC 4-4
HANDLING ELECTRICAL COMPONENTS 4-8
STANDARD TIGHTENING TORQUE FOR BOLTS AND NUTS 4-9
TIGHTENING TORQUE LIST 4-9
MAINTENANCE SCHEDULE 4-11
MAINTENANCE SCHEDULE TABLE 4-11
MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER 4-13
MAINTENANCE PROCEDURE 4-14
INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS) 4-14
WHEN REQUIRED 4-15
CHECKS BEFORE STARTING 4-44
EVERY 100 HOURS MAINTENANCE 4-45
EVERY 250 HOURS MAINTENANCE 4-46
EVERY 500 HOURS MAINTENANCE 4-50
EVERY 1000 HOURS MAINTENANCE 4-62
EVERY 2000 HOURS MAINTENANCE 4-68
EVERY 4000 HOURS MAINTENANCE 4-77
EVERY 4500 HOURS MAINTENANCE 4-81
EVERY 5000 HOURS MAINTENANCE 4-82
EVERY 8000 HOURS MAINTENANCE 4-83
SPECIFICATIONS 5-1
SPECIFICATIONS 5-2
ATTACHMENTS AND OPTIONS 6-1
GENERAL PRECAUTIONS FOR SAFETY 6-2
PRECAUTIONS WHEN SELECTING 6-2
READ THE OPERATION AND MAINTENANCE MANUAL THOROUGHLY 6-2
PRECAUTIONS WHEN REMOVING OR INSTALLING 6-2
PRECAUTIONS WHEN USING 6-3
BUCKET WITH HOOK 6-4
HOOK CONDITION 6-4
SAFETY RULES FOR OPERATIONS 6-4
MACHINE READY FOR INSTALLATION OF ATTACHMENT 6-5
EXPLANATION OF COMPONENTS 6-5
HYDRAULIC CIRCUIT 6-8
REMOVAL AND INSTALLATION OF ATTACHMENT 6-15
ATTACHMENT OPERATIONS 6-18
LONG-TERM STORAGE 6-21
SPECIFICATIONS 6-21
ATTACHMENTS AND OPTIONS 6-22
TRACK SHOES SELECTION 6-23

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SWITCHES (PC220-Q13C-04D-K-00-A)



(1) Starting switch
(2) Fuel control dial
(3) Cigarette lighter
(4) Swing lock switch
(5) Lamp switch
(6) Horn switch
(7) One-touch power max. switch
(8) Room lamp switch
(9) Emergency pump drive switch
(10) Swing brake cancel switch
(11) Revolving warning lamp switch (if equipped)
(12) Ceiling window wiper switch (if equipped)
(13) Engine shutdown secondary switch
(14) Seat heater switch

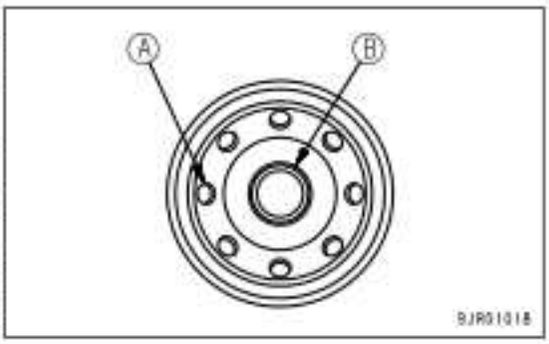
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prevent these problems, always tighten securely to the fixed tightening angle.

10. Clean the filter holder, fill the new filter cartridge with clean fuel, coat the packing surface lightly with oil, then install the filter cartridge to the filter holder.

NOTICE

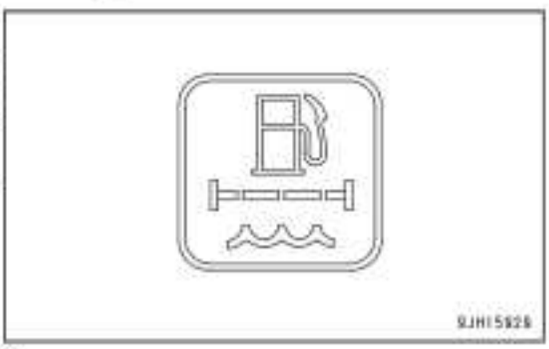
- **When adding fuel, do not remove center cap (B). Always add fuel through the eight small holes (A) on the dirty side.**
- **After adding fuel, remove center cap (B) and install the fuel filter.**
- **Always fill the filter cartridge with clean fuel. Be careful not to let any dirt or dust get into the fuel. In particular, the center portion is the clean side, so do not remove cap (B) when adding fuel. Be careful not to let dirt or dust get into the center portion on the clean side.**



11. When installing, tighten it until the packing surface contacts the seal surface of the filter holder, then tighten it 3/4 of a turn.
    If the filter cartridge is tightened too much, the packing will be damaged which will cause leakage of fuel. If the filter cartridge is not tightened enough, fuel will also leak from the packing, so always keep the tightening angle specified.
    - When tightening with a filter wrench, be extremely careful not to dent or damage the filter.
12. Check that drain valve (2) is closed securely.
13. Remove the vinyl bag covering connector (5), then connect connector (5).

REMARK

- If water gets on the connector (5), the sensor may malfunction and the water separator monitor may light up. When removing connector (5), be extremely careful not to let water attach the connector.
- If water attach connector (5), dry it completely before connecting it.



14. Turn valve (1) at the bottom of the fuel tank to OPEN position (O).
15. After completing the replacement of filter cartridge (4), bleed the air.
16. Fill the fuel tank with fuel (to the level where the float is at the highest position).
17. Loosen the knob of feed pump (7), pull it out, then pump it in and out until the movement becomes heavy.

REMARK

- It is not necessary to remove the fuel pre-filter head and the plug at the fuel main filter head.
- When the engine runs out of fuel, use the same procedure to operate feed pump (7) and bleed the air.

18. After finishing to bleed air, push in the knob of feed pump (7) and tighten it.
19. After replacing the filter cartridge, start the engine and run it at low idle for 10 minutes.
    Check for leakage of oil from the filter seal surface and transparent cap mounting face. If any oil is leaking, check the tightening of the filter cartridge. If there is still oil leakage, repeat Steps 1 to 7 to remove the filter cartridge, and if any damage or embedded foreign material on the packing surface is found, replace it with a new cartridge and repeat Steps 8 to 19 to install it.

REMARK

Sometimes some air is still left inside water separator (3) after air bleeding, but the engine can be started by operating feed pump (7) until its motion gets hard. The remaining air is naturally bled when the water separator is left as it is for a while after the engine stops.

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HYDRAULIC CIRCUIT (PC220-RA18-043-K-00-A)

NOTICE

- **The return circuit when a breaker is installed must return directly to the return filter, so do not use it in the mode other than B mode.**
- **The standard set pressure of the safety valve of the service valve is 24.5 MPa {250 kg/cm², 3,560 PSI} if you select B mode set at the shipment from the plant and it becomes 29.9 MPa {305 kg/cm², 4,340 PSI} when ATT/P or ATT/E mode is selected. Depending on the attachment, it may be necessary to adjust the pressure. Ask your Komatsu distributor for the adjustment.**

Switching the hydraulic circuit

- Depending on the type of attachment, set the working mode on the monitor as follows.
- The hydraulic circuit and the set pressure of the safety valve in the service valve switch according to the working mode selected.

Attachment	Working mode	Hydraulic circuit	Set pressure of safety valve of service valve
Breaker or other attachment with one-way circuit	B mode	Return circuit automatically becomes the circuit that does not pass through control valve	When shipped from factory: 24.5 MPa {250 kg/cm², 3,560 PSI}
Crusher or other attachment with two-way circuit	ATT/P or ATT/E mode	Return circuit automatically becomes the circuit that does not pass through control valve	When shipped from factory: 29.9 MPa {305 kg/cm², 4,340 PSI}

Depending on the attachment, it is necessary to change the oil flow in the service circuit.
For details of setting the oil flow, see "ATTACHMENT OPERATIONS (PAGE 6-18) ".

Switching of breaker and general attachment

- When optional attachment is installed and working mode is set to B mode
  (1) Breaker circuit (one-way circuit) is formed.
  (2) Hydraulic oil flowing through breaker circuit passes through additional filter for breaker.
  (3) Relief valve is set to low pressure.
  When shipped from factory: 24.5 MPa (250 kg/cm², 3,560 PSI)
  (4) Maximum oil flow can be adjusted in user mode.
- If ATT/P or ATT/E mode is turned on when the optional attachment is installed
  (1) Crusher circuit (2-way circuit) is formed.
  (2) Hydraulic oil flowing through crusher circuit does not pass through additional filter for breaker.
  (3) Relief valve is set to high pressure.
  When shipped from factory: 29.9 MPa (305 kg/cm², 4,340 PSI)
  (4) Maximum oil flow can be adjusted in user mode.

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