TEN00205-04

Operation & Maintenance Manual

HYDRAULIC EXCAVATOR

PC200-8 PC200LC-8
PC220-8 PC220LC-8

SERIAL NUMBERS PC200-310001 and up
PC220- 80001

ecot3

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.

KOMATSU®

MidWestTech | Komatsu PC200-8, PC200LC-8, PC220-8, PC220LC-8 Hydraulic Excavator... Order the manual at mid-west-tech.com >

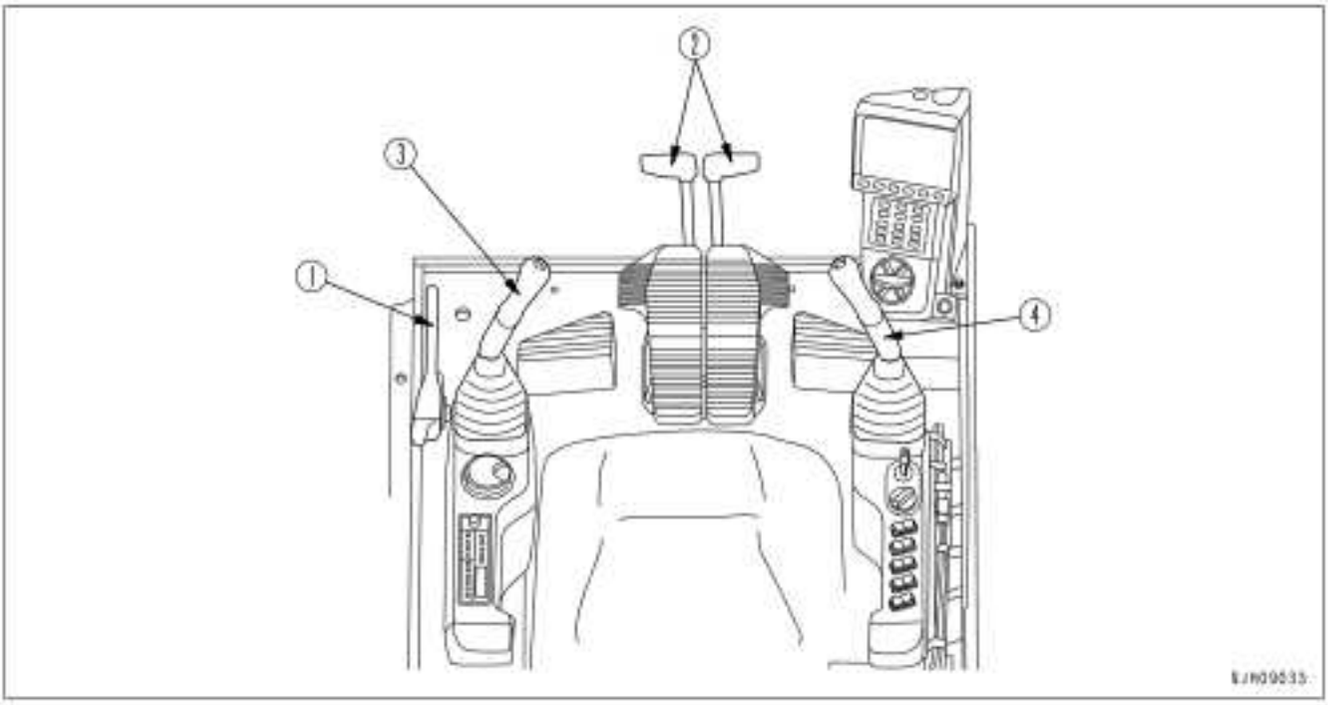
EMERGENCY ESCAPE HAMMER ---- 3- 85
DOOR LOCK ---- 3- 85
CAP WITH LOCK ---- 3- 86
DRINK BOX ---- 3- 88
MAGAZINE BOX ---- 3- 88
ASHTRAY ---- 3- 88
AIR CONDITIONER CONTROLS ---- 3- 89
RADIO ---- 3-102
AUXILIARY ELECTRIC POWER ---- 3-107
FUSE ---- 3-108
FUSIBLE LINK ---- 3-109
CONTROLLER ---- 3-109
TOOL BOX ---- 3-109
GREASE PUMP HOLDER ---- 3-109
FIRE EXTINGUISHER ---- 3-110
MACHINE OPERATIONS AND CONTROLS ---- 3-111
BEFORE STARTING ENGINE ---- 3-111
STARTING ENGINE ---- 3-132
AFTER STARTING ENGINE ---- 3-135
STOPPING THE ENGINE ---- 3-146
MACHINE OPERATION ---- 3-147
STEERING THE MACHINE ---- 3-151
SWINGING ---- 3-153
WORK EQUIPMENT CONTROLS AND OPERATIONS ---- 3-154
WORKING MODE ---- 3-156
PROHIBITED OPERATIONS ---- 3-158
GENERAL OPERATION INFORMATION ---- 3-161
TRAVELING ON SLOPES ---- 3-163
ESCAPE FROM MUD ---- 3-165
RECOMMENDED APPLICATIONS ---- 3-166
BUCKET REPLACEMENT AND INVERSION ---- 3-168
PARKING MACHINE ---- 3-172
MACHINE INSPECTION AFTER DAILY WORK ---- 3-173
LOCKING ---- 3-174
TRANSPORTATION ---- 3-175
TRANSPORTATION PROCEDURE ---- 3-175
LOADING AND UNLOADING WITH TRAILER ---- 3-176
LIFTING MACHINE ---- 3-185
COLD WEATHER OPERATION ---- 3-188
COLD WEATHER OPERATION INFORMATION ---- 3-188
AFTER DAILY WORK COMPLETION ---- 3-190
AFTER COLD WEATHER SEASON ---- 3-190
LONG TERM STORAGE ---- 3-191
BEFORE STORAGE ---- 3-191
DURING STORAGE ---- 3-191
AFTER STORAGE ---- 3-192
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-192
TROUBLES AND ACTIONS ---- 3-193
RUNNING OUT OF FUEL ---- 3-193
PHENOMENA THAT ARE NOT FAILURES ---- 3-193

MidWestTech | Komatsu PC200-8, PC200LC-8, PC220-8, PC220LC-8 Hydraulic Excav... Order the manual at mid-west-tech.com >

TOWING THE MACHINE ---- 3-194
LIGHTWEIGHT TOWING HOLE ---- 3-195
SEVERE JOB CONDITION ---- 3-195
DISCHARGED BATTERY ---- 3-196
OTHER TROUBLE ---- 3-200
MAINTENANCE ---- 4- 1
MAINTENANCE INFORMATION ---- 4- 2
OUTLINE OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
ELECTRIC SYSTEM MAINTENANCE ---- 4- 7
WEAR PARTS ---- 4- 8
WEAR PARTS LIST ---- 4- 9
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 10
RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL ---- 4- 12
TIGHTENING TORQUE SPECIFICATIONS ---- 4- 13
TIGHTENING TORQUE LIST ---- 4- 13
SAFETY CRITICAL PARTS ---- 4- 14
SAFETY CRITICAL PARTS LIST ---- 4- 15
MAINTENANCE SCHEDULE ---- 4- 17
MAINTENANCE SCHEDULE CHART ---- 4- 17
MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER ---- 4- 19
MAINTENANCE PROCEDURE ---- 4- 20
INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS) ---- 4- 20
INITIAL 500 HOURS MAINTENANCE (ONLY AFTER THE FIRST 500 HOURS) ---- 4- 20
WHEN REQUIRED ---- 4- 21
CHECK BEFORE STARTING ---- 4- 48
EVERY 100 HOURS MAINTENANCE ---- 4- 49
EVERY 250 HOURS MAINTENANCE ---- 4- 50
EVERY 500 HOURS MAINTENANCE ---- 4- 53
EVERY 1000 HOURS MAINTENANCE ---- 4- 67
EVERY 2000 HOURS MAINTENANCE ---- 4- 77
EVERY 4000 HOURS MAINTENANCE ---- 4- 84
EVERY 5000 HOURS MAINTENANCE ---- 4- 88
EVERY 8000 HOURS MAINTENANCE ---- 4- 89
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS AND OPTIONS ---- 6- 1
GENERAL PRECAUTIONS FOR SAFETY ---- 6- 2
PRECAUTIONS WHEN SELECTING ---- 6- 2
READ THE INSTRUCTION MANUAL THOROUGHLY ---- 6- 2
PRECAUTIONS WHEN REMOVING OR INSTALLING ---- 6- 2
PRECAUTIONS WHEN USING ---- 6- 2
BUCKET WITH HOOK ---- 6- 3
HOOK CONDITION ---- 6- 3
PROHIBITED OPERATIONS ---- 6- 3
MACHINE READY FOR ATTACHMENT ---- 6- 4
LOCATIONS ---- 6- 4
HYDRAULIC CIRCUIT ---- 6- 8
ATTACHMENT REMOVAL AND INSTALLATION ---- 6- 15

MidWestTech | Komatsu PC200-8, PC200LC-8, PC220-8, PC220LC-8 Hydraulic Excav... Order the manual at mid-west-tech.com >

CONTROL LEVERS AND PEDALS



(1) Lock lever
(2) Travel levers
(with pedal and auto-deceleration system)
(3) Left work equipment control lever
(with auto-deceleration system)
(4) Right work equipment control lever
(with auto-deceleration system)

Lock Lever

WARNING

- **When leaving the operator's compartment, set the lock lever securely to the LOCK position. If the lock lever is not at the LOCK position and the control levers or control pedals are touched by mistake, it may lead to serious personal injury.**
- **Check that the condition of the lever is as shown in the diagram.**
- **When pulling the lock lever up, be careful not to touch the work equipment control lever.**
  When pushing the lock lever down, be careful not to touch the work equipment control lever.

This lever (1) is a device to lock the work equipment, swing, travel, and attachment (if equipped) control levers.

(L) LOCK position: Even when levers or attachment control pedal (if equipped) are operated, machine does not move
(F) FREE position: Machine moves according to operation of levers or attachment control panel (if equipped)



REMARK
This lock lever is of hydraulic lock type. Accordingly, when it is in the lock position (L), the control levers or control pedals move but the machine does not move.

MidWestTech | Komatsu PC200-8, PC200LC-8, PC220-8, PC220LC-8 Hydraulic Excav... Order the manual at mid-west-tech.com >

MAINTENANCE PROCEDURE

INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS)

Carry out the following maintenance only after the first 250 hours of operation on new machines.

- REPLACE FUEL PRE-FILTER CARTRIDGE

For details of the method of maintaining, see EVERY 500 HOURS MAINTENANCE.

INITIAL 500 HOURS MAINTENANCE (ONLY AFTER THE FIRST 500 HOURS)

Carry out the following maintenance only after the first 500 hours of operation on new machines.

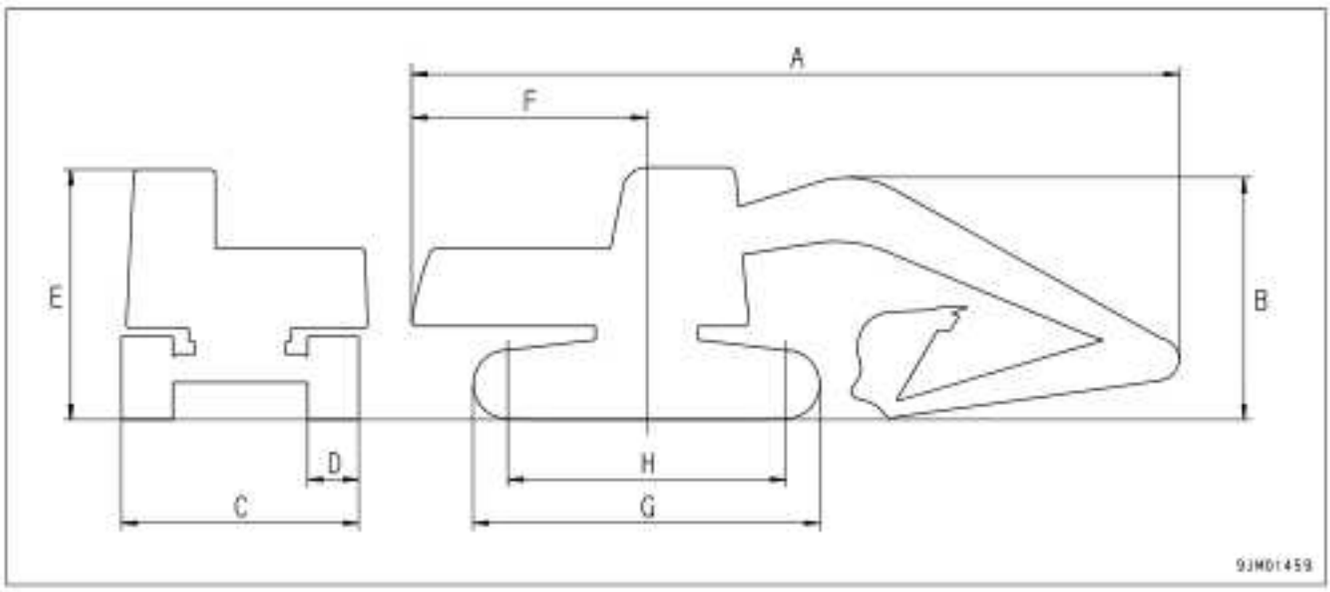
- REPLACE FUEL MAIN FILTER CARTRIDGE

For details of the method of replacing or maintaining, see the section on EVERY 1000 HOURS SERVICE.

MidWestTech | Komatsu PC200-8, PC200LC-8, PC220-8, PC220LC-8 Hydraulic Excav... Order the manual at mid-west-tech.com >

SPECIFICATIONS

	Item	Unit	PC200-8	PC200LC-8	PC220-8	PC220LC-8
	Operating weight	kg (lb)	19,500 (42,998)	20,900 (46,085)	22,900 (50,495)	24,330 (53,648)
	Bucket capacity	m^3 (cu.yd)	0.8 (1.05)		1.0 (1.3)	
	Name of engine	-	KOMATSU SAA6D107E-1 diesel engine			
	Engine horsepower	kW (HP)/rpm	110 (148)/2,000		125 (168)/2,000	
A	Overall length	mm (ft in)	9,425 (30' 11")	9,425 (30' 11")	9,885 (32' 5")	9,885 (32' 5")
B	Overall height	mm (ft in)	2,970 (9' 9")	2,970 (9' 9")	3,185 (10' 5")	3,185 (10' 5")
C	Overall width	mm (ft in)	2,800 (9' 2")	3,080 (10' 1")	2,980 (9' 9")	3,280 (10' 9")
D	Track width	mm (ft in)	600 (1' 12")	700 (2' 4")	600 (1' 12")	700 (2' 4")
E	Height of cab	mm (ft in)	3,040 (9' 12")			
F	Radius of upper structure	mm (ft in)	2,750 (9' 0")	2,750 (9' 0")	2,940 (9' 8")	2,940 (9' 8")
G	Length of track	mm (ft in)	4,070 (13' 4")	4,450 (14' 7")	4,260 (13' 12")	4,640 (15' 3")
H	Tumbler center distance	mm (ft in)	3,275 (10' 9")	3,655 (11' 12")	3,460 (11' 4")	3,845 (12' 7")
	Min. ground clearance	mm (ft in)	440 (1' 5")	440 (1' 5")	440 (1' 5")	440 (1' 5")
	Travel speed (Lo/Mi/Hi)	km/h (MPH)	3.0/4.1/5.5 (1.9/2.5/3.4)		3.1/4.2/5.3 (1.9/2.6/3.3)	
	Swing speed	rpm	12.4		11.7	



MidWestTech | Komatsu PC200-8, PC200LC-8, PC220-8, PC220LC-8 Hydraulic Excav... Order the manual at mid-west-tech.com >