PEN00308-00TH

Operation & Maintenance Manual

HYDRAULIC EXCAVATOR

PC160LC-8

SERIAL NUMBERS PC160LC-8 C20001 and up

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 PC160LC-8 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

EMERGENCY ESCAPE HAMMER ---- 3- 84
DOOR LOCK ---- 3- 84
CAP WITH LOCK ---- 3- 85
DRINK BOX ---- 3- 87
MAGAZINE BOX ---- 3- 87
ASHTRAY ---- 3- 87
AIR CONDITIONER CONTROLS ---- 3- 88
RADIO ---- 3-101
AUXILIARY ELECTRIC POWER ---- 3-106
FUSE ---- 3-107
FUSIBLE LINK ---- 3-108
CONTROLLER ---- 3-108
TOOL BOX ---- 3-108
GREASE GUN HOLDER ---- 3-109
FIRE EXTINGUISHER ---- 3-109
MACHINE OPERATIONS AND CONTROLS ---- 3-110
BEFORE STARTING ENGINE ---- 3-110
STARTING ENGINE ---- 3-129
AFTER STARTING ENGINE ---- 3-132
STOPPING THE ENGINE ---- 3-143
MACHINE OPERATION ---- 3-144
STEERING THE MACHINE ---- 3-148
SWINGING ---- 3-150
WORK EQUIPMENT CONTROLS AND OPERATIONS ---- 3-151
WORKING MODE ---- 3-153
PROHIBITED OPERATIONS ---- 3-155
GENERAL OPERATION INFORMATION ---- 3-158
TRAVELING ON SLOPES ---- 3-160
ESCAPE FROM MUD ---- 3-162
RECOMMENDED APPLICATIONS ---- 3-163
BUCKET REPLACEMENT AND INVERSION ---- 3-165
PARKING MACHINE ---- 3-169
MACHINE INSPECTION AFTER DAILY WORK ---- 3-170
LOCKING ---- 3-171
TRANSPORTATION ---- 3-172
TRANSPORTATION PROCEDURE ---- 3-172
LOADING AND UNLOADING WITH TRAILER ---- 3-173
LIFTING MACHINE ---- 3-183
COLD WEATHER OPERATION ---- 3-185
COLD WEATHER OPERATION INFORMATION ---- 3-185
AFTER DAILY WORK COMPLETION ---- 3-187
AFTER COLD WEATHER SEASON ---- 3-187
LONG TERM STORAGE ---- 3-188
BEFORE STORAGE ---- 3-188
DURING STORAGE ---- 3-188
AFTER STORAGE ---- 3-189
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-189
TROUBLES AND ACTIONS ---- 3-190
RUNNING OUT OF FUEL ---- 3-190
PHENOMENA THAT ARE NOT FAILURES ---- 3-190

MidWestTech | Komatsu PC160LC-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

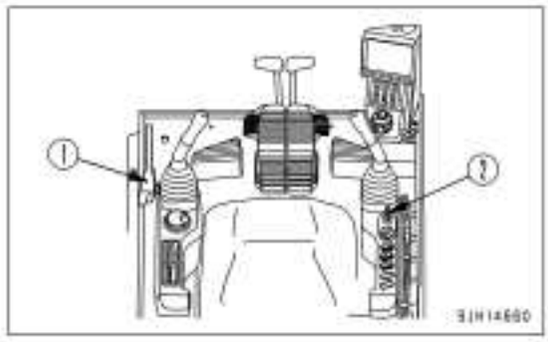
TOWING THE MACHINE ---- 3-191
LIGHTWEIGHT TOWING HOLE ---- 3-192
SEVERE JOB CONDITION ---- 3-192
DISCHARGED BATTERY ---- 3-193
OTHER TROUBLE ---- 3-197
MAINTENANCE ---- 4- 1
MAINTENANCE INFORMATION ---- 4- 2
OUTLINE OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
ELECTRIC SYSTEM MAINTENANCE ---- 4- 7
WEAR PARTS ---- 4- 8
WEAR PARTS LIST ---- 4- 8
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 9
RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL ---- 4- 11
TIGHTENING TORQUE SPECIFICATIONS ---- 4- 12
TIGHTENING TORQUE LIST ---- 4- 12
SAFETY CRITICAL PARTS ---- 4- 13
SAFETY CRITICAL PARTS LIST ---- 4- 14
MAINTENANCE SCHEDULE ---- 4- 15
MAINTENANCE SCHEDULE CHART ---- 4- 15
MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER ---- 4- 17
MAINTENANCE PROCEDURE ---- 4- 18
INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS) ---- 4- 18
INITIAL 500 HOURS MAINTENANCE (ONLY AFTER THE FIRST 500 HOURS) ---- 4- 18
WHEN REQUIRED ---- 4- 19
CHECK 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- 63
EVERY 2000 HOURS MAINTENANCE ---- 4- 69
EVERY 4000 HOURS MAINTENANCE ---- 4- 76
EVERY 5000 HOURS MAINTENANCE ---- 4- 80
EVERY 8000 HOURS MAINTENANCE ---- 4- 81
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- 13

MidWestTech | Komatsu PC160LC-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

Operations Before Starting Engine

⚠ WARNING

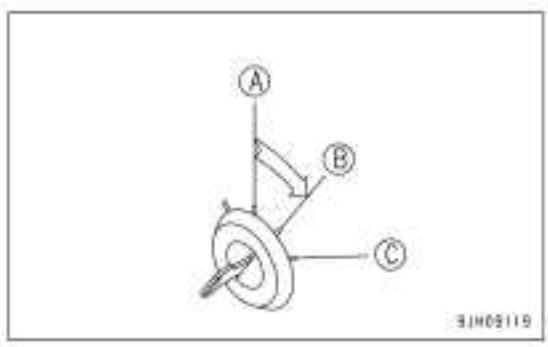
When starting the engine, check that the lock lever is securely at the LOCK position.
If the lock lever is not locked securely and the control levers or control pedal are touched when the engine is started, the machine may move unexpectedly, and this may lead to serious personal injury.



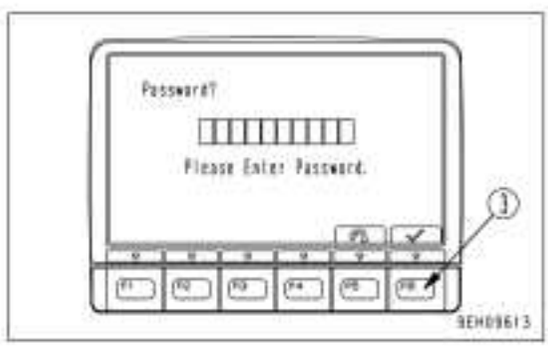
1. Check that lock lever (1) is at the LOCK position (L).
2. Check that each control lever and control pedal is at the Neutral position.
   If the control levers and control pedal are not being touched, they will be at the Neutral position.



3. Insert the key in starting switch (2), turn the key to the ON position (B), then carry out the following checks.



- If a password has been set, the input display screen will be displayed on the monitor screen.
  After inputting the password, press Enter switch F6 (3).



REMARK
For details of the method of setting, changing, or canceling the password, see separate "PROCEDURE FOR SETTING, CHANGING, OR CANCELING PASSWORD".

MidWestTech | Komatsu PC160LC-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

EVERY 500 HOURS MAINTENANCE

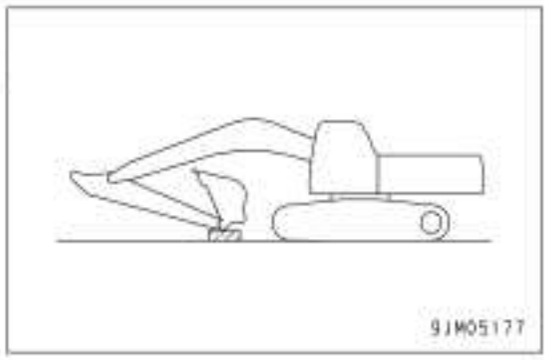
Maintenance for every 100 and 250 hours should be carried out at the same time.

LUBRICATING

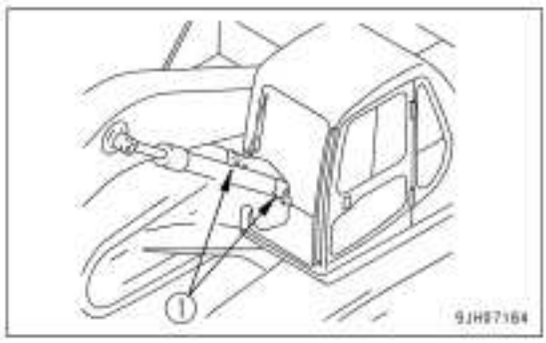
NOTICE

- **If any abnormal noise is generated from any greasing point, carry out greasing regardless of the greasing interval.**
- **Carry out greasing every 10 hours for the first 50 hours on a new machine. Carry out the greasing also at 250 hours and 500 hours on a new machine.**
- **After the machine was subjected to jobs in the water, be sure to grease the wet pins.**
- **When carrying out heavy-duty operations, such as hydraulic breaker operations, carry out the greasing every 100 hours.**

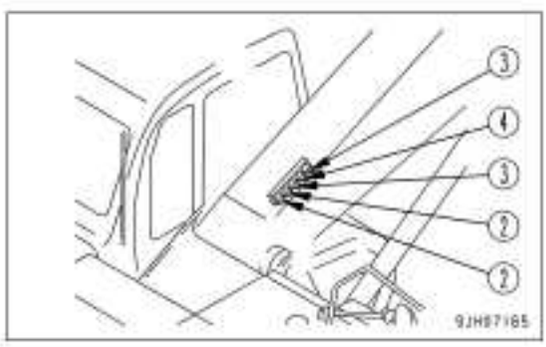
1. Set the machine to the greasing posture shown on the right, lower the work equipment to the ground, then stop the engine.
2. Using a grease pump, pump in grease through the grease fittings shown by arrows.
3. After greasing, wipe off any old grease that was pushed out.



(1) Boom cylinder foot pin (2 places)

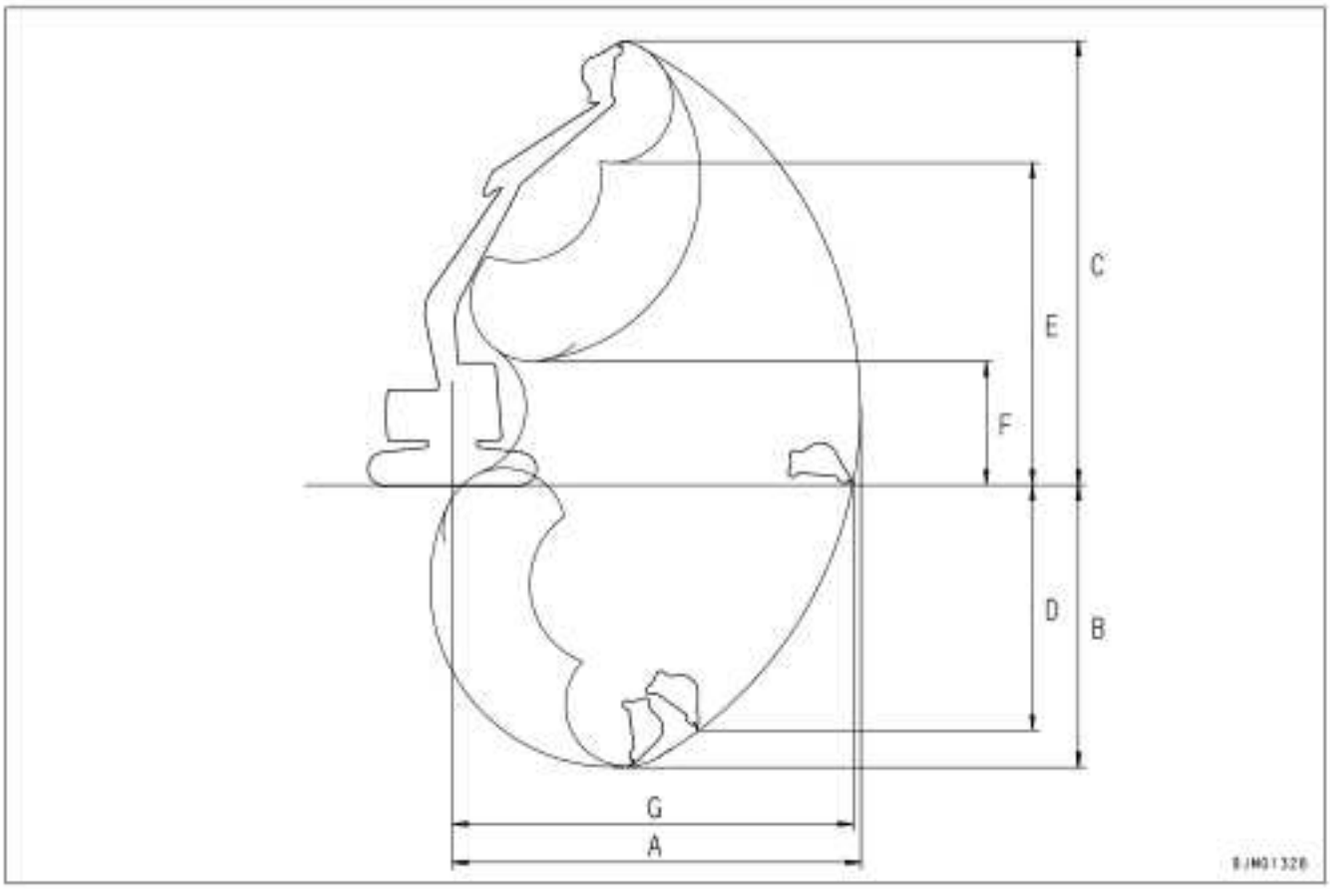


(2) Boom foot pin (2 places)
(3) Boom cylinder rod end pin (2 places)
(4) Arm cylinder foot pin (1 place)



MidWestTech | Komatsu PC160LC-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

	Working ranges	Unit	PC160LC-8
A	Max. digging reach	mm (ft in)	8,960 (29' 5")
B	Max. digging depth	mm (ft in)	5,960 (19' 7")
C	Max. digging height	mm (ft in)	8,980 (29' 6")
D	Max. vertical wall depth	mm (ft in)	5,040 (16' 6")
E	Max. dumping height	mm (ft in)	6,370 (20' 11")
F	Min. dumping height	mm (ft in)	2,400 (7' 10")
G	Max. reach at ground level	mm (ft in)	8,800 (28' 10")



MidWestTech | Komatsu PC160LC-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >