TEN00379-06

Operation & Maintenance Manual

HYDRAULIC EXCAVATOR

PC800 -8E0 **PC800LC -8E0**
PC800SE -8E0
PC850 -8E0 **PC850SE -8E0**

SERIAL NUMBERS PC800-65001 and up
PC850-65001

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 PC800-8E0, PC800LC-8E0, PC800SE-8E0, PC850-8E0, PC850SE... Order the manual at mid-west-tech.com >

EMERGENCY ESCAPE HAMMER ---- 3- 90
DOOR LOCK ---- 3- 90
CAP WITH LOCK ---- 3- 91
HOT AND COOL BOX ---- 3- 93
MAGAZINE BOX ---- 3- 93
ASHTRAY ---- 3- 93
AIR CONDITIONER CONTROLS ---- 3- 94
RADIO ---- 3-107
AUXILIARY ELECTRIC POWER ---- 3-116
FUSE ---- 3-117
CIRCUIT BREAKER ---- 3-118
CONTROLLER ---- 3-119
TOOL BOX ---- 3-119
GREASE PUMP ---- 3-120
FIRE EXTINGUISHER ---- 3-123
MACHINE OPERATIONS AND CONTROLS ---- 3-124
BEFORE STARTING ENGINE ---- 3-124
STARTING ENGINE ---- 3-145
AFTER STARTING ENGINE ---- 3-148
STOPPING THE ENGINE ---- 3-158
MACHINE OPERATION ---- 3-159
STEERING THE MACHINE ---- 3-163
SWINGING ---- 3-165
WORK EQUIPMENT CONTROLS AND OPERATIONS ---- 3-166
WORKING MODE ---- 3-168
PROHIBITED OPERATIONS ---- 3-171
GENERAL OPERATION INFORMATION ---- 3-176
TRAVELING ON SLOPES ---- 3-178
ESCAPE FROM MUD ---- 3-180
RECOMMENDED APPLICATIONS ---- 3-181
BUCKET REPLACEMENT ---- 3-182
PARKING MACHINE ---- 3-184
MACHINE INSPECTION AFTER DAILY WORK ---- 3-185
LOCKING ---- 3-186
TRANSPORTATION ---- 3-187
TRANSPORTATION PROCEDURE ---- 3-187
LIFTING MACHINE ---- 3-187
SHIPPING MACHINE INFORMATION ---- 3-189
TRANSPORTATION POSTURE ---- 3-190
PROCEDURE FOR INCREASING OR REDUCING TRACK FRAME GAUGE ---- 3-196
COLD WEATHER OPERATION ---- 3-198
COLD WEATHER OPERATION INFORMATION ---- 3-198
AFTER DAILY WORK COMPLETION ---- 3-200
AFTER COLD WEATHER SEASON ---- 3-200
LONG TERM STORAGE ---- 3-201
BEFORE STORAGE ---- 3-201
DURING STORAGE ---- 3-201
AFTER STORAGE ---- 3-201
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-202
TROUBLES AND ACTIONS ---- 3-203

MidWestTech | Komatsu PC800-8E0, PC800LC-8E0, PC800SE-8E0, PC850-8E0, PC8... Order the manual at mid-west-tech.com >

RUNNING OUT OF FUEL ---- 3-203
PHENOMENA THAT ARE NOT FAILURES ---- 3-204
TOWING THE MACHINE ---- 3-205
SEVERE JOB CONDITION ---- 3-205
DISCHARGED BATTERY ---- 3-206
OTHER TROUBLE ---- 3-211
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 PROCEDURE ---- 4- 17
INITIAL 100 HOURS MAINTENANCE (ONLY AFTER THE FIRST 100 HOURS) ---- 4- 17
INITIAL 500 HOURS MAINTENANCE (ONLY AFTER THE FIRST 500 HOURS) ---- 4- 17
WHEN REQUIRED ---- 4- 18
CHECK BEFORE STARTING ---- 4- 40
EVERY 10 HOURS MAINTENANCE ---- 4- 41
EVERY 100 HOURS MAINTENANCE ---- 4- 43
EVERY 250 HOURS MAINTENANCE ---- 4- 44
EVERY 500 HOURS MAINTENANCE ---- 4- 50
EVERY 1000 HOURS MAINTENANCE ---- 4- 59
EVERY 2000 HOURS MAINTENANCE ---- 4- 72
EVERY 4000 HOURS MAINTENANCE ---- 4- 78
EVERY 5000 HOURS MAINTENANCE ---- 4- 81
EVERY 8000 HOURS MAINTENANCE ---- 4- 85
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
ATTACHMENT GUIDE ---- 6- 3
COMBINATIONS OF WORK EQUIPMENT ---- 6- 4
TRACK SHOES SELECTION ---- 6- 6
HANDLING COUNTERWEIGHT REMOVER ---- 6- 7
HANDLING MACHINES EQUIPPED WITH KOMTRAX ---- 6- 19
BASIC PRECAUTIONS ---- 6- 19

MidWestTech | Komatsu PC800-8E0, PC800LC-8E0, PC800SE-8E0, PC850-8E0, PC8... Order the manual at mid-west-tech.com >

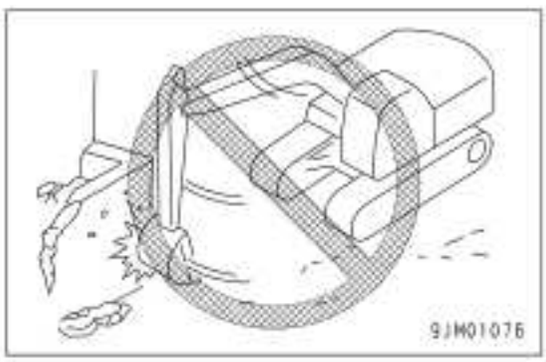
PROHIBITED OPERATIONS

WARNING

- If it is necessary to operate the work equipment control lever when the machine is traveling, stop the machine, then operate the control lever.
- If any lever is operated when the auto-deceleration is being actuated, the engine speed will suddenly increase, so be careful when operating.

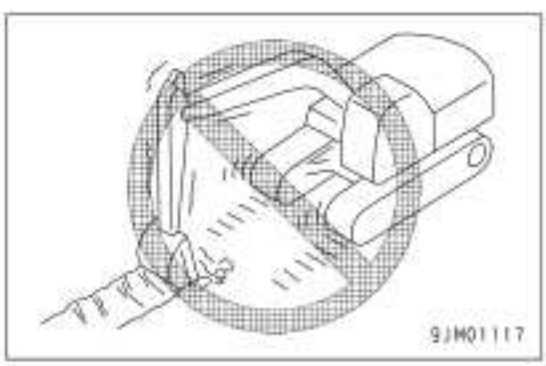
Operations Using Swing Force

Do not use the swing force to compact soil or break objects. This is not only dangerous, but will also drastically reduce the life of the machine.



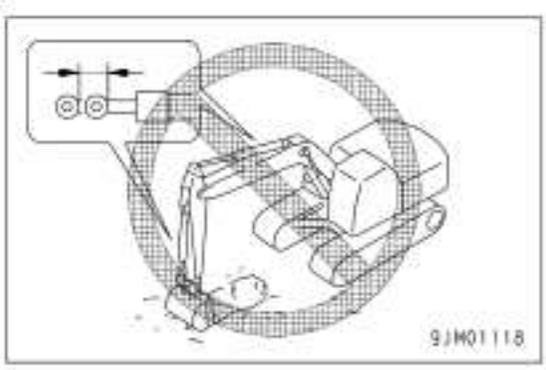
Operations Using Travel Force

Do not dig the bucket into the ground and use the travel force to perform excavation. This will damage the machine or work equipment.



Prohibition of Operations Using Hydraulic Cylinders to Stroke Ends

If the work equipment is used with the cylinder rod operated to its stroke end, and given impact by some external force, the hydraulic cylinders will be damaged, causing personal injury. Avoid operations with the hydraulic cylinder fully retracted or fully extended.



MidWestTech | Komatsu PC800-8E0, PC800LC-8E0, PC800SE-8E0, PC850-8E0, PC8... Order the manual at mid-west-tech.com >

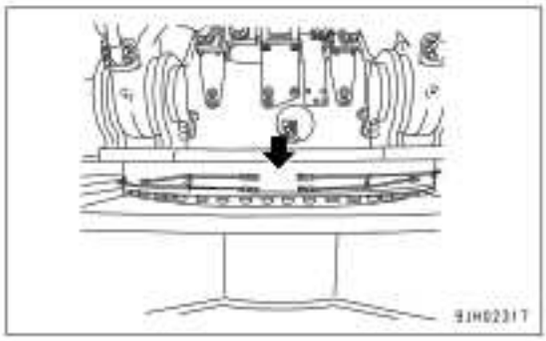
EVERY 100 HOURS MAINTENANCE

Maintenance for every 10 hours service should be carried out at the same time.

LUBRICATING SWING CIRCLE

(4 places)

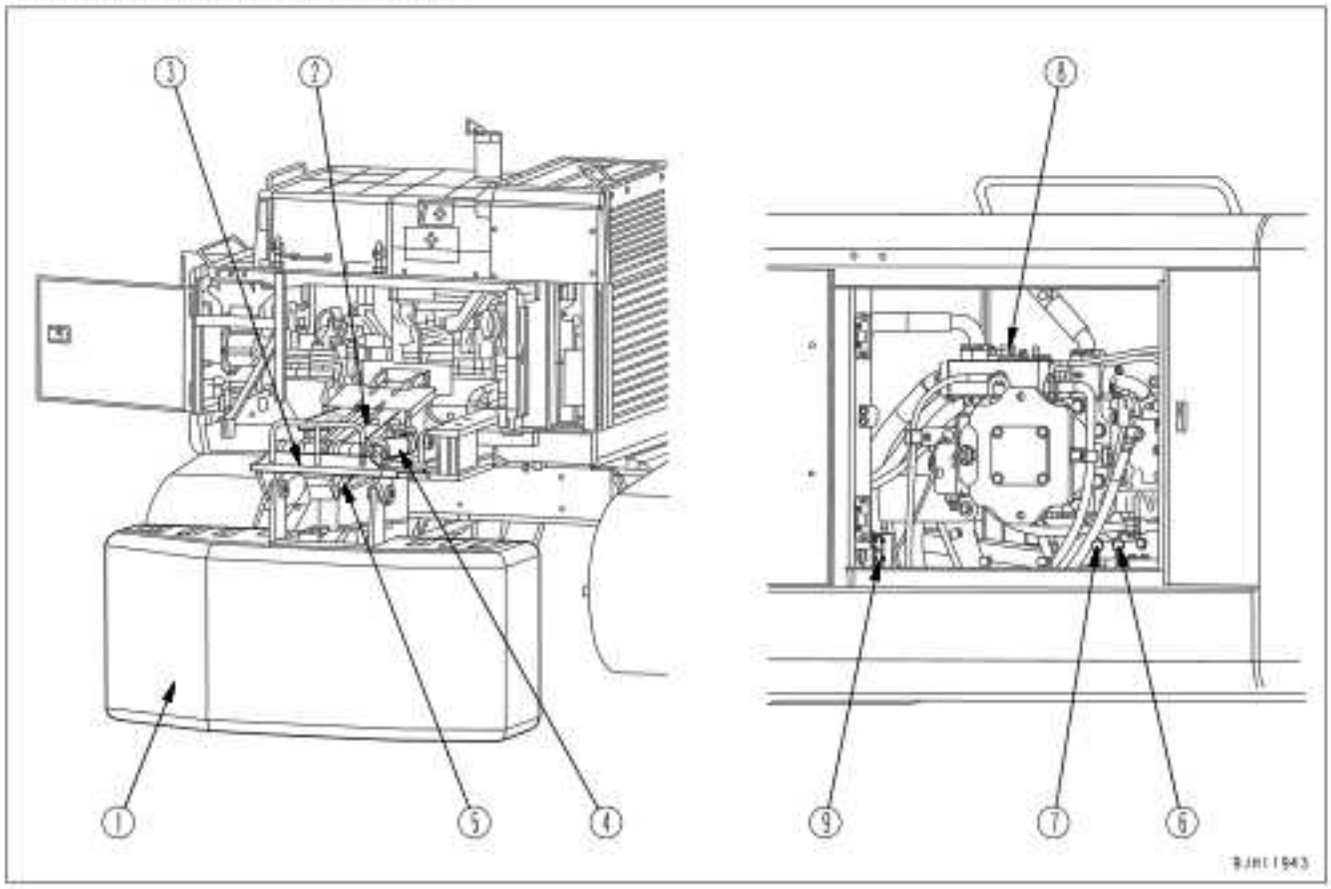
1. Lower the work equipment to the ground.
2. By using a grease pump, pump in grease through the grease fittings shown by arrows.
3. After greasing, wipe off any old grease that was pushed out.



MidWestTech | Komatsu PC800-8E0, PC800LC-8E0, PC800SE-8E0, PC850-8E0, PC8... Order the manual at mid-west-tech.com >

HANDLING COUNTERWEIGHT REMOVER

EXPLANATION OF COMPONENTS



(1) Counterweight
(2) A Remover Link
(3) B Remover Link
(4) A Remover Link Cylinder
(5) B Remover Link Cylinder
(6) Counterweight Removal / Installation A Control Lever
(7) Counterweight Removal / Installation B Control Lever
(8) Remover Control Selector Valve
(9) Lock Switch

Counterweight,Remover Link,Remover Link Cylinder

This counterweight (1) is shaped to be fit for slinging. It moves up and down by operating remover links (2) and (3) with remover link cylinders (4) and (5).

MidWestTech | Komatsu PC800-8E0, PC800LC-8E0, PC800SE-8E0, PC850-8E0, PC8... Order the manual at mid-west-tech.com >