TEN00468-01

Operation & Maintenance Manual

HYDRAULIC
EXCAVATOR

PC88MR-8

SERIAL NUMBERS 5450 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 PC88MR-8 Hydraulic Excavator Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

SUN ROOF ---- 3- 73
WINDSHIELD ---- 3- 74
SLIDING DOOR ---- 3- 80
EMERGENCY ESCAPE HAMMER ---- 3- 81
COVER WITH LOCK ---- 3- 82
ENGINE HOOD ---- 3- 83
MUD COVER ---- 3- 85
BATTERY INSPECTION COVER ---- 3- 86
AIR CONDITIONER CONTROLS ---- 3- 87
RADIO ---- 3-100
FUSE ---- 3-105
FUSIBLE LINK ---- 3-106
AUXILIARY ELECTRIC POWER ---- 3-107
CONTROLLERS ---- 3-108
OPERATION MANUAL STORAGE ---- 3-109
CUP HOLDER ---- 3-109
TOOL BOX ---- 3-109
GREASE PUMP HOLDER ---- 3-109
ASHTRAY ---- 3-110
FIRE EXTINGUISHER ---- 3-110
MACHINE OPERATIONS AND CONTROLS ---- 3-111
BEFORE STARTING ENGINE ---- 3-111
STARTING ENGINE ---- 3-130
AFTER STARTING ENGINE ---- 3-135
STOPPING THE ENGINE ---- 3-145
MACHINE OPERATION ---- 3-146
STEERING THE MACHINE ---- 3-150
SWINGING ---- 3-152
WORK EQUIPMENT CONTROLS AND OPERATIONS ---- 3-153
WORKING MODE ---- 3-155
PROHIBITED OPERATIONS ---- 3-157
GENERAL OPERATION INFORMATION ---- 3-160
TRAVELING ON SLOPES ---- 3-162
ESCAPE FROM MUD ---- 3-164
RECOMMENDED APPLICATIONS ---- 3-165
BUCKET REPLACEMENT AND INVERSION ---- 3-167
PARKING MACHINE ---- 3-170
MACHINE INSPECTION AFTER DAILY WORK ---- 3-172
LOCKING ---- 3-172
ROAD LINERS AND RUBBER SHOES ---- 3-173
MACHINE READY FOR ATTACHMENT ---- 3-178
TRANSPORTATION ---- 3-188
TRANSPORTATION PROCEDURE ---- 3-188
LOADING AND UNLOADING WITH TRAILER ---- 3-189
LIFTING MACHINE ---- 3-195
COLD WEATHER OPERATION ---- 3-197
COLD WEATHER OPERATION INFORMATION ---- 3-197
AFTER DAILY WORK COMPLETION ---- 3-199
AFTER COLD WEATHER SEASON ---- 3-199
LONG TERM STORAGE ---- 3-200

MidWestTech | Komatsu PC88MR-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

BEFORE STORAGE ---- 3-200
DURING STORAGE ---- 3-200
AFTER STORAGE ---- 3-201
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-202
TROUBLES AND ACTIONS ---- 3-203
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- 10
USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE ---- 4- 11
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- 14
MAINTENANCE SCHEDULE ---- 4- 16
MAINTENANCE SCHEDULE CHART ---- 4- 16
MAINTENANCE INTERVAL FOR HYDRAULIC BREAKER ---- 4- 18
MAINTENANCE PROCEDURE ---- 4- 19
WHEN REQUIRED ---- 4- 19
CHECK BEFORE STARTING ---- 4- 55
EVERY 100 HOURS MAINTENANCE ---- 4- 56
EVERY 250 HOURS MAINTENANCE ---- 4- 58
EVERY 500 HOURS MAINTENANCE ---- 4- 65
EVERY 1000 HOURS MAINTENANCE ---- 4- 77
EVERY 2000 HOURS MAINTENANCE ---- 4- 87
EVERY 4000 HOURS MAINTENANCE ---- 4- 91
EVERY 5000 HOURS MAINTENANCE ---- 4- 92
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS AND OPTIONS ---- 6- 1
ATTACHMENTS AND OPTIONS - GENERAL INFORMATION ---- 6- 2
SAFETY FIRST ---- 6- 2
ATTACHMENT INSTALLATION ---- 6- 3
BUCKET WITH HOOK ---- 6- 4
HOOK CONDITION ---- 6- 4
PROHIBITED OPERATIONS ---- 6- 4
CHANGING MACHINE CONTROL PATTERN (IF PATTERN CHANGE VALVE EQUIPPED) ---- 6- 5
CONTROL PATTERN CHANGE PROCEDURE ---- 6- 5

MidWestTech | Komatsu PC88MR-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

DO NOT GET CAUGHT IN WORK EQUIPMENT

The clearance in the area around the work equipment changes according to the movement of the link. If you get caught, you may suffer serious personal injury or death. Do not allow anyone to come close to any rotating or extending/retracting portion.

PRECAUTIONS RELATED TO PROTECTIVE STRUCTURES

The operator compartment is equipped with a structure (such as ROPS, OPG) to protect the operator by absorbing impact energy. For machines equipped with ROPS (ROLL-OVER PROTECTIVE STRUCTURE):

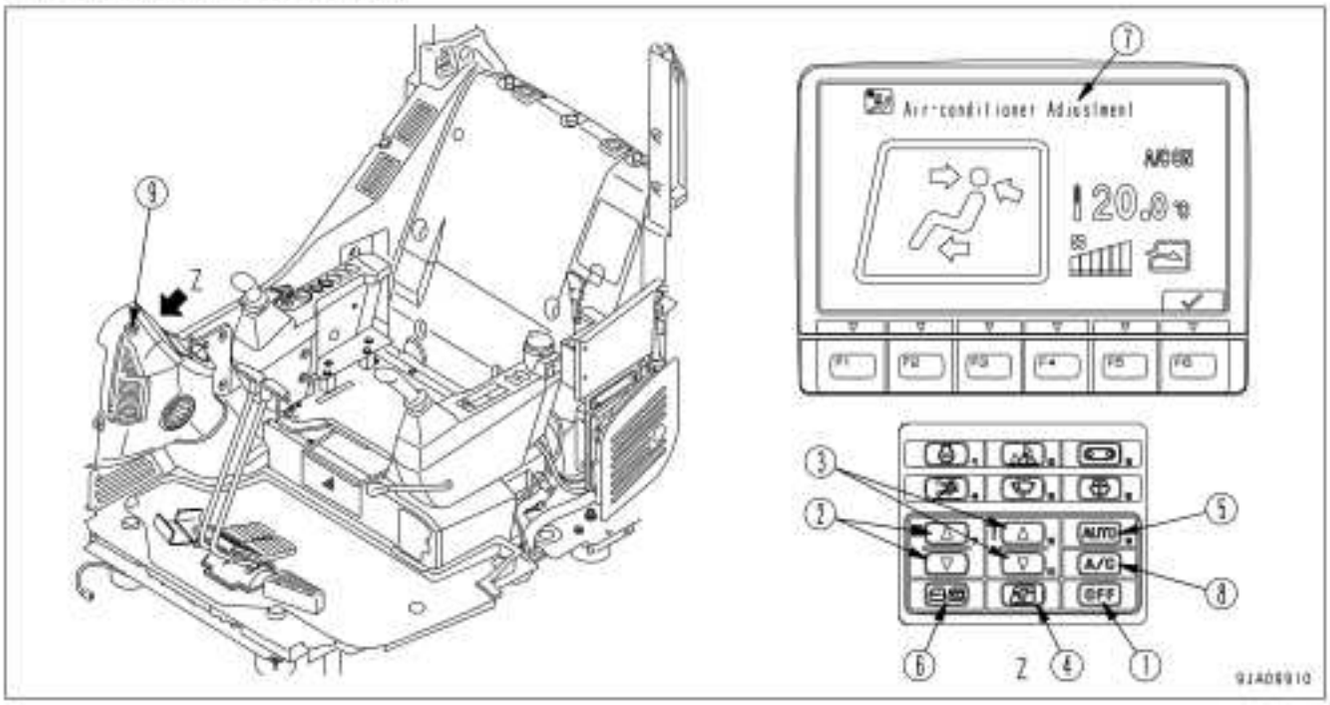


- If the machine weight (mass) exceeds the certified value shown on the ROPS certification plate or if the machine specification is changed into another specification that is not shown in this manual, ROPS will not be able to fulfil it's function, which may result in serious injury or death.
- Do not increase the machine weight beyond the certified value by modifying the machine or by installing additional attachments to the machine and do not change the machine specification to that which is not shown in this manual. If in any doubt contact your Komatsu distributor.
- With any combination of work tool (such as bucket, breaker) that Komatsu refer to in this manual, the overall weight of the machine does not exceed the certified value of the ROPS.
- Always observe the following.If the machine is equipped with a protective structure, do not remove the protective structure and carry out operations without it.
- If the protective structure is welded, or holes are drilled in it, or it is modified in any other way, its strength may be reduced. Consult your Komatsu distributor before carrying out any modifications.
- If the protective structure is damaged or deformed by falling objects or by rolling over, its strength will be reduced and it will not be able to fulfil its function properly. In such cases, always contact your Komatsu distributor for advice on the method of repair.
- Even if the protective structure is installed, always fasten your seat belt properly when operating the machine. If you do not fasten your seat belt properly, it cannot perform its function.

MidWestTech | Komatsu PC88MR-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

AIR CONDITIONER CONTROLS

Air Conditioner Control Panel



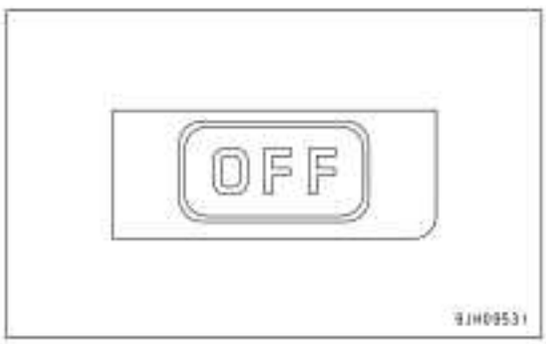
(1) OFF switch
(2) Fan switch
(3) Temperature control switch
(4) Vent selector switch
(5) Auto switch
(6) FRESH/RECIRC selector switch
(7) Display monitor
(8) Air conditioner switch
(9) Sunlight sensor

OFF Switch

Switch (1) is used to stop the fan and air conditioner.

REMARK

Even if this switch (1) is pressed, the monitor screen does not switch to the air conditioner adjustment screen.



MidWestTech | Komatsu PC88MR-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >

EVERY 2000 HOURS MAINTENANCE

Maintenance for every 100, 250, 500 and 1000 hours should be carried out at the same time.

CHECK ALTERNATOR, STARTING MOTOR

The brushes may be worn or the bearing may have run out of grease, contact your Komatsu distributor for inspection and repairs.

If the engine is started frequently, have this inspection carried out every 1000 hours.

CHECK ENGINE VALVE CLEARANCE, ADJUST

Special tools are needed for inspection and maintenance, please contact your Komatsu distributor.

MidWestTech | Komatsu PC88MR-8 Hydraulic Excavator Operation & Maintenance Ma... Order the manual at mid-west-tech.com >