Operation & Maintenance Manual

UEAM005000

PC600-8
PC600LC-8

HYDRAULIC EXCAVATOR

SERIAL NUMBER

PC600-8	- K50001 and up
PC600LC-8	- K50001 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.

KOMATSU®

MidWestTech | Komatsu PC600-8, PC600LC-8 Hydraulic Excavator Operation & Maintenan... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD

FOREWORD 1-2

SAFETY INFORMATION 1-3
- SIGNAL WORDS 1-3
- EXAMPLE OF SAFETY MESSAGE USING SIGNAL WORD 1-3
- OTHER SIGNAL WORDS 1-3
- EXAMPLE OF SAFETY LABEL USING WORDS 1-4
- SAFETY LABELS USING PICTOGRAM 1-4
- NOISE 1-5
- Vibration levels 1-6
  - GUIDE TO REDUCE VIBRATION LEVELS ON MACHINE 1-6

INTRODUCTION 1-8
- DIRECTIONS OF MACHINE 1-8
- VISIBILITY FROM OPERATOR'S SEAT 1-9
  - PROXIMITY VISIBILITY 1-9
  - 12M CIRCUMFERENCE VISIBILITY 1-9
- BREAKING-IN THE NEW MACHINE 1-10

PRODUCT INFORMATION 1-11
- PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE 1-11
- ENGINE SERIAL NUMBER PLATE AND ITS LOCATION 1-11
- SERVICE METER LOCATION 1-12
- YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR 1-12
- MACHINE SERIAL PLATE 1-13

SAFETY

SAFETY INFORMATION 2-2

SAFETY LABELS 2-4
- LOCATION OF SAFETY LABELS 2-5
- SAFETY LABELS 2-6

SAFETY INFORMATION 2-13

SAFETY MACHINE OPERATION 2-22
- STARTING ENGINE 2-22
- OPERATION 2-24
- TRANSPORTATION 2-30
- BATTERY 2-31
- TOWING 2-32
- LIFTING OBJECTS WITH BUCKET 2-33

MidWestTech | Komatsu PC600-8, PC600LC-8 Hydraulic Excavator Operation & Mainte... Order the manual at mid-west-tech.com >

SAFETY MAINTENANCE INFORMATION 2-34

OPERATION

MACHINE VIEW ILLUSTRATIONS 3-2
OVERALL MACHINE VIEW 3-2
CONTROLS AND GAUGES 3-3

DETAILED CONTROLS AND GAUGES 3-5
MONITORING SYSTEM 3-5
BASIC OPERATION OF MACHINE MONITOR 3-6
EMERGENCY MONITORS 3-9
CAUTION MONITORS 3-11
BASIC CHECK MONITORS 3-13
METER DISPLAY PORTION 3-15
MONITOR SWITCHES PORTION 3-20
SWITCHES 3-34
CONTROL LEVERS AND PEDALS 3-41
SUN ROOF 3-44
OPENING 3-44
CLOSING 3-44
WINDSHIELD 3-45
EMERGENCY EXIT FROM OPERATOR'S CAB 3-50
DOOR LOCK 3-50
CAP WITH LOCK 3-51
HOT AND COOL BOX 3-52
MAGAZINE BOX 3-52
ASHTRAY 3-52
AIR CONDITIONER CONTROLS 3-53
AIR CONDITIONER CONTROL PANEL 3-53
METHOD OF OPERATION 3-57
USE AIR CONDITIONER WITH CARE 3-63
INSPECTION AND MAINTENANCE OF AIR CONDITIONER EQUIPPED MACHINE 3-63
OTHER FUNCTIONS 3-64
CAB RADIO 3-65
USE RADIO WITH CARE 3-65
AUXILIARY ELECTRIC POWER 3-66
24V POWER SOURCE 3-66
12V POWER SOURCE 3-66
FUSE 3-67
CIRCUIT BREAKER 3-68
CONTROLLER 3-69
TOOL BOX 3-69
GREASE PUMP 3-70
METHOD OF USE 3-70
PRECAUTIONS WHEN USING 3-71
SUPPLYING GREASE 3-71

MidWestTech | Komatsu PC600-8, PC600LC-8 Hydraulic Excavator Operation & Mainte... Order the manual at mid-west-tech.com >

ACCUMULATOR 3-73
RELEASING HYDRAULIC PRESSURE WITH ACCUMULATOR 3-73

MACHINE OPERATIONS AND CONTROLS 3-74
BEFORE STARTING ENGINE 3-74
WALK-AROUND CHECKS 3-74
CHECKS BEFORE STARTING 3-75
ADJUSTMENT 3-84
SEAT BELT 3-87
OPERATIONS BEFORE STARTING ENGINE 3-88
STARTING ENGINE 3-91
AFTER STARTING ENGINE 3-94
WARMING UP ENGINE 3-94
WARMING UP HYDRAULIC EQUIPMENT 3-96
OPERATION AFTER COMPLETION OF WARMING-UP OPERATION 3-100
STOPPING THE ENGINE 3-101
MACHINE OPERATION 3-102
PREPARATIONS FOR MOVING THE MACHINE 3-102
MOVING MACHINE FORWARD 3-103
MOVING MACHINE BACKWARD 3-104
STOPPING MACHINE 3-105
STEERING THE MACHINE 3-106
STEERING 3-106
SWINGING 3-108
WORK EQUIPMENT CONTROLS AND OPERATIONS 3-109
WORKING MODE 3-110
PROHIBITED OPERATIONS 3-112
GENERAL OPERATION INFORMATION 3-114
TRAVELING ON SLOPES 3-116
ESCAPE FROM MUD 3-118
TRACK ON ONE SIDE STUCK 3-118
TRACKS ON BOTH SIDES STUCK 3-118
RECOMMENDED APPLICATIONS 3-119
DITCHING WORK 3-119
LOADING WORK 3-119
BUCKET REPLACEMENT 3-120
REPLACEMENT 3-120
PARKING MACHINE 3-122
MACHINE INSPECTION AFTER DAILY WORK 3-123
LOCKING 3-124
OVERLOAD WARNING DEVICE (option) 3-124

TRANSPORTATION 3-125
PRECAUTIONS FOR TRANSPORTATION 3-125
LIFTING MACHINE 3-125
SHIPPING MACHINE INFORMATION 3-127
TRANSPORTATION POSTURE 3-128
PROCEDURE FOR INCREASING OR REDUCING TRACK FRAME GAUGE 3-133

MidWestTech | Komatsu PC600-8, PC600LC-8 Hydraulic Excavator Operation & Mainte... Order the manual at mid-west-tech.com >

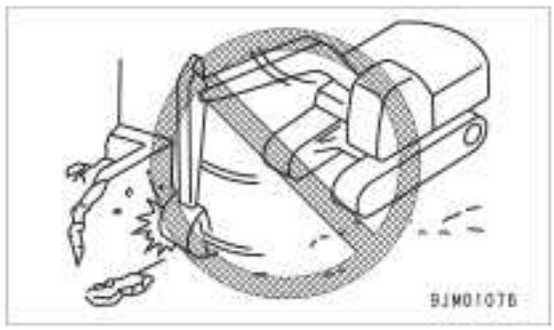
PROHIBITED OPERATIONS

⚠ 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.**

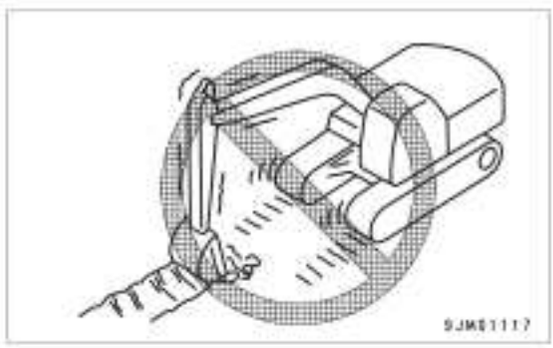
Operations Using Swing Force

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.



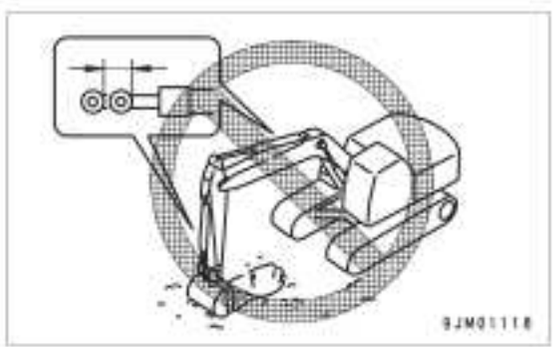
Operations Using Travel Force

Do not dig the bucket into the ground and use the travel force to carry out 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 PC600-8, PC600LC-8 Hydraulic Excavator Operation & Mainte... Order the manual at mid-west-tech.com >

MAINTENANCE PROCEDURE

INITIAL 100 HOURS MAINTENANCE (ONLY AFTER THE FIRST 100 HOURS)

Perform the following maintenance only after the first 100 hours.

- Clean strainer of P.T.O lubricating oil filter

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.

- Change oil in swing machinery case
- Change oil in P.T.O case
- Change oil in final drive case

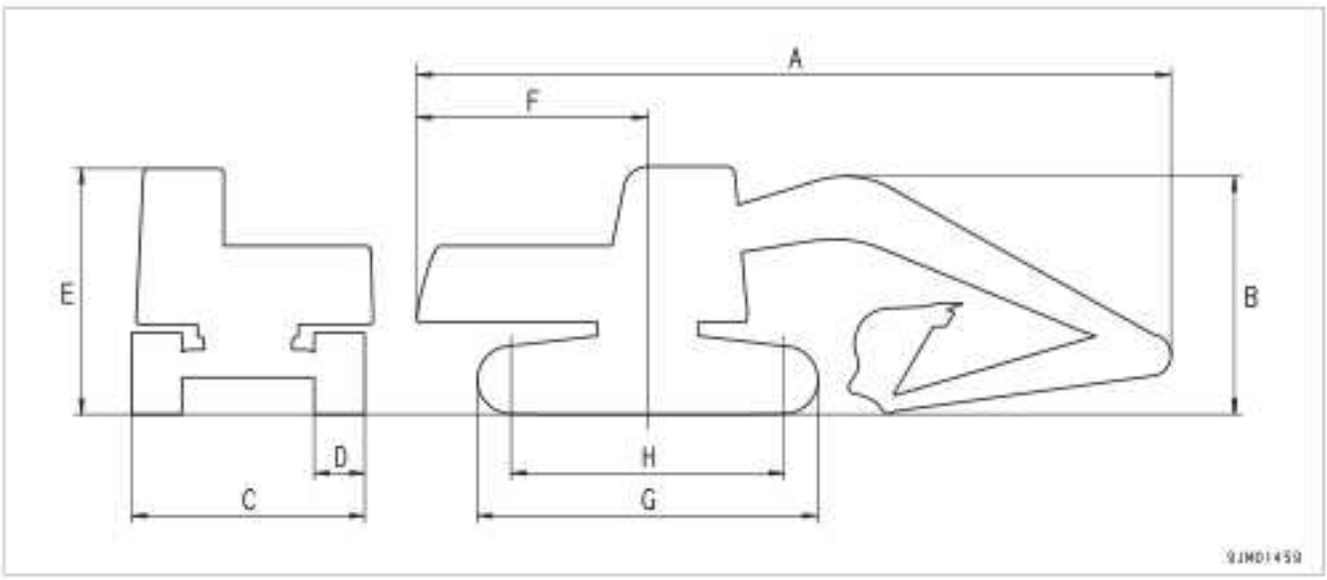
Special tools are needed for the inspection and maintenance, have your Komatsu distributor perform this work.

For details of the method of replacing or maintaining, see EVERY 1000 HOURS and EVERY 2000 HOURS SERVICE.

MidWestTech | Komatsu PC600-8, PC600LC-8 Hydraulic Excavator Operation & Mainte... Order the manual at mid-west-tech.com >

SPECIFICATIONS

	Item	Unit	PC600-8	PC600LC-8
	Operating weight (including one person)	kg	57,640	58,640
	Bucket capacity	m^3	2.7	2.7
	Name of engine	-	KOMATSU SAA6D140E-5 deisel engine	
	Rated horsepower of engine	kW (HP)/rpm	317 (425)/1,800	317 (425)/1,800
A	Overall length	mm	11,830	12,440
B	Overall height	mm	4,600	4,300
C	Overall width	mm	4,210	4,210
D	Track shoe width	mm	600	600
E	Height of cab	mm	3,290	3,290
F	tail swing radius	mm	3,800	3,800
G	Overall length of track	mm	5,340	5,690
H	Tumbler center distance	mm	4,250	4,600
	Min. ground clearance	mm	780	780
	Traveling speed (low/high)	km/h	3.0/4.9	3.0/4.9
	Swing speed	rpm	8.3	8.3



MidWestTech | Komatsu PC600-8, PC600LC-8 Hydraulic Excavator Operation & Mainte... Order the manual at mid-west-tech.com >