

Operation & Maintenance Manual

PC45MR-5

PC55MR-5

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC45MR-5 30001 and up**
 PC55MR-5 20001 and up

ENGINE **4D88E-7**

This material is proprietary to Komatsu America Corp. and is not to be reproduced, used, or disclosed except in accordance with written authorization from Komatsu America Corp.

It is our policy to improve our products whenever it is possible and practical to do so. We reserve the right to make changes or improvements at any time without incurring any obligation to install such changes on products sold previously.

Due to this continuous program of research and development, revisions may be made to this publication. It is recommended that customers contact their distributor for information on the latest revision.

Copyright 2016 Komatsu
Printed in U.S.A.
Komatsu America Corp.

TABLE OF CONTENTS

FOREWORD.....	1-1
BEFORE READING THIS MANUAL	1-2
SAFETY INFORMATION	1-3
INTRODUCTION	1-4
MAIN USE OF MACHINE	1-4
DIRECTIONS OF MACHINE.....	1-4
PROTECTIVE STRUCTURES.....	1-4
PRODUCT INFORMATION.....	1-5
LOCATION OF PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE	1-5
LOCATION OF ENGINE NUMBER PLATE	1-5
SERVICE METER LOCATION.....	1-6
YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR.....	1-6
SAFETY.....	2-1
SAFETY.....	2-2
SAFETY LABELS	2-4
LOCATION OF SAFETY LABELS.....	2-5
CONTENTS OF SAFETY LABELS	2-8
GENERAL PRECAUTIONS COMMON TO OPERATION AND MAINTENANCE	2-14
PRECAUTIONS BEFORE STARTING OPERATION.....	2-14
PREPARATIONS FOR SAFE OPERATION	2-15
PRECAUTIONS TO PREVENT FIRE.....	2-17
PRECAUTIONS WHEN GETTING ON OR OFF MACHINE.....	2-19
DO NOT GET CAUGHT IN WORK EQUIPMENT	2-20
PRECAUTIONS RELATED TO PROTECTIVE STRUCTURES.....	2-21
PROTECTION AGAINST FALLING, FLYING OR INTRUDING OBJECTS.....	2-22
UNAUTHORIZED MODIFICATION	2-22
PRECAUTIONS RELATED TO ATTACHMENTS AND OPTIONS	2-22
PRECAUTIONS RELATED TO CAB GLASS	2-22
PRECAUTIONS WHEN RUNNING ENGINE INSIDE BUILDING	2-23
PRECAUTIONS FOR OPERATION	2-24
PRECAUTIONS FOR JOBSITE.....	2-24
START ENGINE.....	2-27
PRECAUTIONS FOR OPERATION	2-30
PRECAUTIONS FOR TRANSPORTATION.....	2-38
TOWING AND BEING TOWED.....	2-39
LIFTING OPERATION BY USING BUCKET WITH HOOK.....	2-40
PRECAUTIONS FOR MAINTENANCE.....	2-41
PRECAUTIONS BEFORE STARTING INSPECTION AND MAINTENANCE	2-41
PRECAUTIONS FOR CHECK AND MAINTENANCE	2-45
OPERATION.....	3-1
GENERAL VIEW.....	3-2
MACHINE EQUIPMENT NAME	3-2
CONTROLS AND GAUGES NAMES.....	3-4
OTHER EQUIPMENT NAME	3-7
EXPLANATION OF COMPONENTS.....	3-9
EXPLANATION OF MACHINE MONITOR EQUIPMENT	3-9
SWITCHES.....	3-78
CONTROL LEVERS AND PEDALS	3-87
OTHER EQUIPMENT	3-95
MACHINE OPERATIONS AND CONTROLS	3-131
CHECKS AND ADJUSTMENT BEFORE STARTING ENGINE	3-131
METHOD FOR STARTING ENGINE.....	3-159
METHOD FOR OPERATIONS AND CHECKS AFTER STARTING ENGINE	3-162
METHOD FOR STOPPING ENGINE	3-170
METHOD FOR STARTING MACHINE (TRAVEL FORWARD AND REVERSE) AND STOPPING MACHINE	3-171

METHOD FOR STEERING MACHINE.....	3-177
METHOD FOR SWINGING MACHINE	3-179
METHOD FOR OPERATING WORK EQUIPMENT	3-180
HANDLE WORKING MODE	3-183
PROHIBITED OPERATIONS	3-184
PRECAUTIONS FOR OPERATION	3-189
PRECAUTIONS FOR WORKING ON SLOPE	3-191
METHOD FOR ESCAPING FROM MUD	3-193
RECOMMENDED APPLICATIONS.....	3-194
METHOD FOR REPLACING BUCKET	3-196
METHOD FOR PARKING MACHINE	3-198
METHOD FOR CHECKING AFTER FINISHING WORK	3-200
LOCK.....	3-200
HANDLE AIR CONDITIONER.....	3-211
EXPLANATION OF AIR CONDITIONER EQUIPMENT.....	3-211
METHOD FOR OPERATING AIR CONDITIONER.....	3-213
HANDLE RUBBER AND ROAD LINERS SHOES.....	3-215
RECOMMENDED USE OF RUBBER AND ROAD LINERS SHOES.....	3-215
COMPARISON OF RUBBER ,ROAD LINERS SHOES AND STEEL SHOES.....	3-215
WARRANTY OF RUBBER AND ROAD LINERS SHOES	3-215
PROHIBITED OPERATIONS WHEN USING RUBBER AND ROAD LINERS SHOES.....	3-216
PRECAUTIONS FOR USING RUBBER AND ROAD LINERS SHOES	3-217
TRANSPORTATION.....	3-220
PRECAUTIONS FOR TRANSPORTING MACHINE	3-220
SELECT TRANSPORTATION METHOD.....	3-220
LOADING AND UNLOADING WITH TRAILER	3-221
METHOD FOR LIFTING MACHINE	3-228
COLD WEATHER OPERATION.....	3-231
COLD WEATHER OPERATION INFORMATION	3-231
PRECAUTIONS AFTER DAILY WORK COMPLETION	3-233
AFTER COLD WEATHER SEASON	3-233
PRECAUTIONS FOR LONG-TERM STORAGE	3-234
PREPARATION FOR LONG-TERM STORAGE.....	3-234
MAINTENANCE DURING LONG-TERM STORAGE.....	3-235
STARTING MACHINE AFTER LONG-TERM STORAGE	3-235
TROUBLES AND ACTIONS	3-236
ACTIONS WHEN RUNNING OUT OF FUEL	3-236
PHENOMENA THAT ARE NOT FAILURES	3-238
PRECAUTIONS FOR TOWING MACHINE.....	3-239
PRECAUTIONS FOR SEVERE JOB CONDITION.....	3-239
PRECAUTIONS FOR DISCHARGED BATTERY	3-240
OTHER TROUBLE.....	3-246
MAINTENANCE.....	4-1
PRECAUTIONS FOR MAINTENANCE	4-2
CHECK SERVICE METER READING	4-2
KOMATSU GENUINE REPLACEMENT PARTS	4-2
KOMATSU GENUINE LUBRICANTS.....	4-2
ALWAYS USE CLEAN WASHER FLUID	4-2
FRESH AND CLEAN LUBRICANTS	4-2
CHECK DRAINED OIL AND USED FILTER.....	4-2
PRECAUTIONS FOR REFILLING OIL OR FUEL	4-2
PRECAUTIONS FOR WELDING	4-2
DO NOT DROP THINGS INSIDE MACHINE	4-2
PRECAUTIONS FOR KDPF	4-2
DUSTY JOBSITES.....	4-3
AVOID MIXING OIL.....	4-3
LOCK INSPECTION COVERS	4-3
PRECAUTIONS WHEN SWINGING BOOM	4-3