

Operation & Maintenance Manual

PC88MR-8

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC88MR-8** **A90001** and up

ENGINE **4D95LE-5**

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

INTRODUCTION

FOREWORD 0-2

SAFETY INFORMATION 0-3

 Signal Words 0-3

 Other Signal Words 0-3

 Safety Labels 0-4

 Safety Label Using Words 0-4

 Safety Label Using Pictogram 0-4

INTRODUCTION 0-5

 Directional Reference of Machine 0-5

 Visibility from Operator's Seat 0-5

BREAKING IN THE MACHINE 0-6

PRODUCT INFORMATION 0-7

 Product Identification Number (PIN) - Machine Serial No. Plate 0-7

 EPA* Regulations, Engine Serial Number Plate and its Location 0-7

 Service Meter Location 0-8

 Your Machine Serial Numbers and Distributor 0-8

TABLE OF CONTENTS 0-9

SAFETY

SAFETY AND WARNING DECALS 1-2

 Location of Safety Decals 1-3

GENERAL SAFETY RULES AND PRECAUTIONS 1-10

 General Safety Rules 1-10

 General Safety at Job Site 1-11

 Working on Loose Ground 1-11

 Safety Features 1-12

 Personal Protective Equipment 1-12

 Fire and Explosion Prevention 1-13

 Fire Caused by Fuel or Oil 1-13

 Fire Caused by Accumulation of Flammable Material 1-13

 Fire Coming From Electric Wiring 1-14

 Fire Coming From Hydraulic Line 1-14

 Windshield Washer Fluid 1-14

 Action if Fire Occurs 1-14

 Fire Extinguisher and First Aid Kit 1-14

 Fire Prevention and Suppression 1-15

 Fire Prevention Steps 1-15

 Fixed Fire Detection System 1-15

 Fixed Fire Suppression System 1-15

 Fire Prevention Procedures 1-15

 Dust Hazard Precautions 1-16

 Keep Operator's Cab Clean 1-16

 Unauthorized Modifications 1-16

 Leaving Operator's Compartment 1-17

INTRODUCTION

Mounting and Dismounting	1-18
Crush or Pinch Point Dangers	1-18
Inside Operator's Compartment	1-19
Precautions When Using ROPS	1-19
Protection Against Falling or Flying Objects	1-20
Precautions for Attachments	1-21
Quick Coupler Attachment	1-21
Large Attachments	1-21
PRECAUTIONS BEFORE STARTING OPERATIONS	1-22
Pre-Operational Checks	1-22
Seat Belt Inspection	1-23
Starting Your Work Operations	1-24
Work Site Hazards	1-24
Avoiding Dangerous Situations	1-25
Working Clearances	1-29
Operations on Slopes	1-30
Operating on Snow or Icy Surfaces	1-30
Asbestos Hazard Alert	1-30
RULES FOR ROAD TRAVEL	1-31
Precautions When Traveling	1-31
Traveling with Carriage Reversed	1-31
Travel on Slopes	1-32
Parking the Machine	1-34
PRECAUTIONS DURING MAINTENANCE OPERATIONS	1-35
Warning Tags	1-35
Equipment Storage	1-35
Working Under the Machine	1-36
Using Drop Lamps	1-36
Keeping the Machine Clean	1-36
Performing General Maintenance Procedures	1-37
Running the Engine During Maintenance	1-38
Proper Tools	1-38
Engine System High-Voltage	1-38
Welding, Grinding or Cutting	1-39
Adjusting Track Tension	1-39
DO NOT Disassemble Recoil Springs	1-39
When Using Hammer	1-39
Refueling the Machine	1-40
Cooling System Precautions	1-40
Battery Precautions	1-41
Starting the Machine	1-42
High-Pressure Hoses	1-42
Handling High-Pressure Hoses	1-42
Precaution for High Fuel Pressure	1-43
High Temperatures Areas	1-43
Disposal of Waste Materials	1-43
Accumulator	1-44
Critical Parts	1-44
TRANSPORTING THE MACHINE	1-45