Operation & Maintenance Manual

SEAM053403T

GALEO
PC750,750LC-7
PC750SE-7
PC800,800SE-7

HYDRAULIC EXCAVATOR

SERIAL NUMBERS PC750-20001
PC750LC-20001
PC750SE-20001 and up
PC800-40001
PC800SE-40001

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 Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800SE-7 H... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD ---- 1- 1
FOREWORD ---- 1- 2
SAFETY INFORMATION ---- 1- 5
INTRODUCTION ---- 1- 7
DIRECTIONS OF MACHINE ---- 1- 7
BREAKING-IN THE NEW MACHINE ---- 1- 7
PRODUCT INFORMATION ---- 1- 8
MACHINE SERIAL NUMBER PLATE AND ITS LOCATION ---- 1- 8
ENGINE SERIAL NUMBER PLATE AND ITS LOCATION ---- 1- 8
SERVICE METER LOCATION ---- 1- 9
YOUR MACHINE SERIAL NUMBERS AND DISTRIBUTOR ---- 1- 9
SAFETY ---- 2- 1
SAFETY INFORMATION ---- 2- 2
SAFETY LABELS ---- 2- 4
LOCATION OF SAFETY LABELS ---- 2- 5
SAFETY LABELS ---- 2- 6
SAFETY INFORMATION ---- 2- 12
SAFETY MACHINE OPERATION ---- 2- 20
STARTING ENGINE ---- 2- 20
OPERATION ---- 2- 22
TRANSPORTATION ---- 2- 28
BATTERY ---- 2- 29
TOWING ---- 2- 31
LIFTING OBJECTS WITH BUCKET ---- 2- 32
SAFETY MAINTENANCE INFORMATION ---- 2- 33
OPERATION ---- 3- 1
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
SWITCHES ---- 3- 28
CONTROL LEVERS AND PEDALS ---- 3- 35
SUN ROOF ---- 3- 39
WINDSHIELD ---- 3- 40
EMERGENCY EXIT FROM OPERATOR'S CAB ---- 3- 45
DOOR LOCK ---- 3- 45
CAP WITH LOCK ---- 3- 46
HOT AND COOL BOX ---- 3- 47
MAGAZINE BOX ---- 3- 47
ASHTRAY ---- 3- 48
AIR CONDITIONER CONTROLS ---- 3- 49
RADIO ---- 3- 63
AUXILIARY ELECTRIC POWER ---- 3- 67
FUSE ---- 3- 68
CIRCUIT BREAKER ---- 3- 69
CONTROLLERS ---- 3- 70
TOOL BOX ---- 3- 70
GREASE PUMP ---- 3- 71

MidWestTech | Komatsu Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800S... Order the manual at mid-west-tech.com >

ACCUMULATOR ---- 3- 74
MACHINE OPERATIONS AND CONTROLS ---- 3- 75
BEFORE STARTING ENGINE ---- 3- 75
STARTING ENGINE ---- 3- 94
AFTER STARTING ENGINE ---- 3- 99
STOPPING THE ENGINE ---- 3-107
MACHINE OPERATION ---- 3-108
STEERING THE MACHINE ---- 3-112
SWINGING ---- 3-114
WORK EQUIPMENT CONTROLS AND OPERATIONS ---- 3-115
WORKING MODE ---- 3-117
PROHIBITED OPERATIONS ---- 3-118
GENERAL OPERATION INFORMATION ---- 3-120
TRAVELING ON SLOPES ---- 3-122
ESCAPE FROM MUD ---- 3-124
RECOMMENDED APPLICATIONS ---- 3-125
BUCKET REPLACEMENT ---- 3-126
PARKING MACHINE ---- 3-128
CHECK AFTER SHUT OFF ENGINE ---- 3-129
LOCKING ---- 3-130
TRANSPORTATION ---- 3-131
PRECAUTIONS FOR TRANSPORTATION ---- 3-131
LIFTING MACHINE ---- 3-131
SHIPPING MACHINE INFORMATION ---- 3-133
TRANSPORTATION POSTURE ---- 3-134
PROCEDURE FOR INCREASING OR REDUCING TRACK FRAME GAUGE ---- 3-140
COLD WEATHER OPERATION ---- 3-142
COLD WEATHER OPERATION INFORMATION ---- 3-142
AFTER DAILY WORK COMPLETION ---- 3-144
AFTER COLD WEATHER SEASON ---- 3-144
LONG TERM STORAGE ---- 3-145
BEFORE STORAGE ---- 3-145
DURING STORAGE ---- 3-145
AFTER STORAGE ---- 3-145
STARTING MACHINE AFTER LONG-TERM STORAGE ---- 3-146
TROUBLES AND ACTIONS ---- 3-147
RUNNING OUT OF FUEL ---- 3-147
PHENOMENA THAT ARE NOT FAILURES ---- 3-149
TOWING THE MACHINE ---- 3-150
SEVERE JOB CONDITION ---- 3-150
DISCHARGED BATTERY ---- 3-151
OTHER TROUBLE ---- 3-155
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- 6
WEAR PARTS ---- 4- 7
WEAR PARTS LIST ---- 4- 8
LUBRICANTS, FUEL AND COOLANT SPECIFICATIONS ---- 4- 9

MidWestTech | Komatsu Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800S... Order the manual at mid-west-tech.com >

PROPER SELECTION ---- 4- 9
TIGHTENING TORQUE SPECIFICATIONS ---- 4- 13
TIGHTENING TORQUE LIST ---- 4- 13
SAFETY CRITICAL PARTS ---- 4- 14
SAFETY CRITICAL PARTS LIST ---- 4- 15
MAINTENANCE SCHEDULE ---- 4- 16
MAINTENANCE SCHEDULE CHART ---- 4- 16
MAINTENANCE PROCEDURE ---- 4- 18
INITIAL 100 HOURS MAINTENANCE (ONLY AFTER THE FIRST 100 HOURS) ---- 4- 18
INITIAL 500 HOURS MAINTENANCE (ONLY AFTER THE FIRST 500 HOURS) ---- 4- 18
WHEN REQUIRED ---- 4- 19
CHECK BEFORE STARTING ---- 4- 42
EVERY 10 HOURS MAINTENANCE ---- 4- 43
EVERY 100 HOURS MAINTENANCE ---- 4- 46
EVERY 250 HOURS MAINTENANCE ---- 4- 47
EVERY 500 HOURS MAINTENANCE ---- 4- 54
EVERY 1000 HOURS MAINTENANCE ---- 4- 66
EVERY 2000 HOURS MAINTENANCE ---- 4- 75
EVERY 4000 HOURS MAINTENANCE ---- 4- 78
EVERY 5000 HOURS MAINTENANCE ---- 4- 81
EVERY 8000 HOURS MAINTENANCE ---- 4- 82
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- 3
LOADING SHOVEL ---- 7- 1
EXPLANATION OF COMPONENTS ---- 7- 2
SWITCHES ---- 7- 2
FUSE ---- 7- 5
OPERATIONS ---- 7- 6
OPERATION OF WORK EQUIPMENT ---- 7- 6
PRECAUTIONS DURING OPERATION ---- 7- 8
EXCAVATOR WORK ---- 7- 12
PRECAUTIONS WHEN DISASSEMBLING MACHINE ---- 7- 13
RELEASING PRESSURE ---- 7- 13
TRANSPORTATION ---- 7- 14
MACHINE CONFIGURATION FOR TRANSPORT ---- 7- 14
WEAR PARTS ---- 7- 15
WEAR PARTS LIST ---- 7- 15
MAINTENANCE ---- 7- 16
CHECK BEFORE STARTING ---- 7- 16
EVERY 10 HOURS MAINTENANCE ---- 7- 18
EVERY 5000 HOURS MAINTENANCE ---- 7- 19
SPECIFICATION ---- 7- 21

MidWestTech | Komatsu Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800S... Order the manual at mid-west-tech.com >

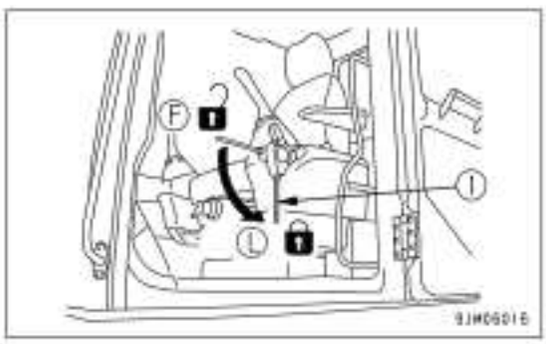
Operations Before Starting Engine

⚠ WARNING

- **When starting the engine, check that the safety lock lever is securely at the LOCK position (L).**
  If the control levers are not locked and they are touched by accident when starting the engine, the work equipment may move unexpectedly, and this may lead to a serious accident.

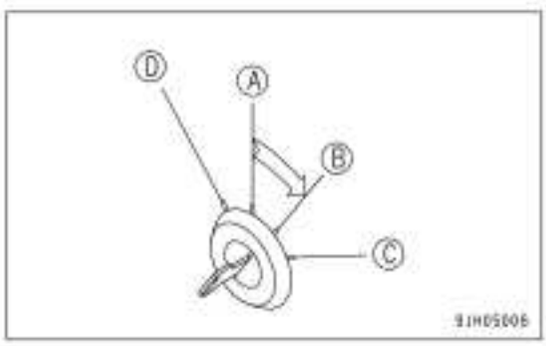


1. Check that safety lock lever (1) is at the LOCK position (L).



2. Check the position of each lever.
   Set control lever to the neutral position.

3. Insert key into starting switch (2), turn the key to ON position (B), then perform the following checks.



MidWestTech | Komatsu Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800S... Order the manual at mid-west-tech.com >

No.	Supplier	Engine Oil [CD or CE] SAE10W, 30, 40 10W30, 15W40 (The 15W40 oil marked * is CE.)	Gear Oil [GL-4 or GL-5] SAE80, 90, 140	Grease [Lithium-Base] NLGI No.2	Anti-freeze Coolant [Ethylene Glycol Base] Permanent Type
1	KOMATSU	EO10-CD EO30-CD EO10-30CD EO15-40CD	GO90 GO140	G2-LI G2-LI-S	AF-ACL AF-PTL AF-PT(Winter, one season type)
2	AGIP	Diesel sigma S super dieselmulti-grade *Sigma turbo	Rotra MP	GR MU/EP	-
3	AMOCO	*Amoco 300	Multi-purpose gear oil	PYKON premium grease	-
4	ARCO	*Arcofleet S3 plus	Arco HD gear oil	Litholine HEP 2 Arco EP moly D	-
5	BP	Vanellus C3	Gear oil EP Hypogear EP	Energrease LS-EP2	Antifreeze
6	CALTEX	*RPM delo 400 RPM delo 450	Universal thuban Universal thuban EP	Marfak all purpose 2 Ultra-duty grease 2	AF engine coolant
7	CASTROL	*Turbomax *RX super CRD	EP EPX Hypoy Hypoy B Hypoy C	MS3 Spheerol EPL2	Anti-freeze
8	CHEVRON	*Delo 400	Universal gear	Ultra-duty grease 2	-
9	CONOCO	*Fleet motor oil	Universal gear lubricant	Super-sta grease	-
10	ELF	Multiperformance 3C Performance 3C	-	Tranself EP Tranself EP type 2	Glacelf
11	EXXON (ESSO)	Essolube D3 *Essolube XD-3 *Essolube XD-3 Extra *Esso heavy duty Exxon heavy duty	Gear oil GP Gear oil GX	Beacon EP2	All season coolant
12	GULF	Super duty motor oil *Super duty plus	Multi-purpose gear lubricant	Gulfcrown EP2 Gulfcrown EP special	Antifeeze and coolant
13	MOBIL	Delvac 1300 *Delvac super 10W-30, 15W-40	Mobilube GX Mobilube HD	Mobilux EP2 Mobilgease 77 Mobilgrease special	-

MidWestTech | Komatsu Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800S... Order the manual at mid-west-tech.com >

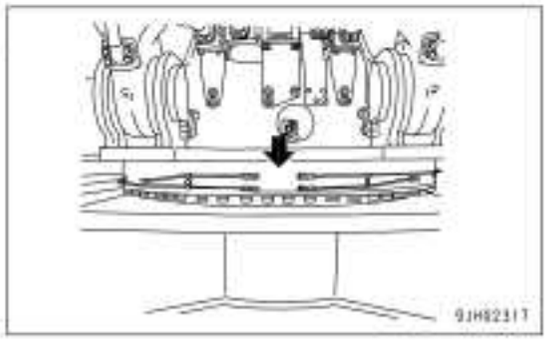
EVERY 100 HOURS MAINTENANCE

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

LUBRICATING SWING CIRCLE

(4 points)

1. Lower the work equipment to the ground.
2. 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 Galeo PC750-7, PC750LC-7, PC750SE-7, PC800-7, PC800S... Order the manual at mid-west-tech.com >