WEAM002202

Operation & Maintenance Manual

WB140PS-2
WB150PS-2
POWER-SHIFT

BACKHOE-LOADER

SERIAL NUMBER

WB140PS-2 140F50092 and up

WB150PS-2 150F50020 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.

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Page

TABLE OF CONTENTS

FOREWORD 1
INFORMATION ON SAFETY 2
INTRODUCTION 4
INTENDED USES 4
IMPROPER OR UNAUTHORIZED USES 4
MAIN CHARACTERISTICS 5
RUNNING-IN 5
PRODUCT IDENTIFICATION 6
MACHINE SERIAL NUMBER 6
MACHINE IDENTIFICATION PLATE 6
ENGINE SERIAL NUMBER AND EMISSION LABEL 7
FRONT AXLE SERIAL NUMBER 7
REAR AXLE SERIAL NUMBER 7
TRANSMISSION SERIAL NUMBER 8
CAB SERIAL NUMBER 8
CANOPY SERIAL NUMBER 8
SERIAL NUMBERS AND DEALER'S ADDRESS 9

SAFETY AND ACCIDENT PREVENTION

1. GENERAL PRECAUTIONS 12
1.1 • GENERAL SAFETY RULES 12
1.2 • SAFETY DEVICES AND GUARDS 12
1.3 • CLOTHING AND PERSONAL PROTECTION ITEMS 12
1.4 • UNAUTHORIZED MODIFICATIONS 13
1.5 • LEAVING THE OPERATOR'S SEAT 13
1.6 • GETTING ON AND OFF THE MACHINE 14
1.7 • CHECKING THE REAR-VIEW MIRROR 14
1.8 • PREVENTING FIRES DUE TO FUEL AND OIL 15
1.9 • PREVENTING BURNS 15
1.10 • PREVENTING DAMAGE DUE TO ASBESTOS POWDER 16
1.11 • PREVENTING DAMAGE CAUSED BY THE WORK EQUIPMENT 16
1.12 • FIRE EXTINGUISHERS AND FIRST AID KIT 17
1.13 • PRECAUTIONS CONCERNING THE CAB STRUCTURE 17
1.14 • PRECAUTIONS CONCERNING THE EQUIPMENT 17

PRECAUTIONS

2. PRECAUTIONS TO BE TAKEN BEFORE STARTING THE ENGINE 20
2.1 • SAFETY ON THE WORK SITE 20
2.2 • FIRE PREVENTION 20
2.3 • PRECAUTIONS TO BE TAKEN FOR THE OPERATOR'S CAB 20
2.4 • ROOM VENTILATION 21
2.5 • CLEANING WINDOWS, MIRRORS AND LIGHTS - CHECKING THE WINDSHIELD WIPER BLADES AND THE BULBS 21

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		Page
3.	**PRECAUTIONS TO BE TAKEN WHEN WORKING**	**22**
3.1	• STARTING THE ENGINE	22
3.2	• RULES FOR ROAD TRAVEL	22
3.3	• CHECKS FOR TRAVELING IN REVERSE	23
3.4	• MOVING THE MACHINE	24
3.5	• WORKING ON SLOPES	24
3.6	• PREVENTING ELECTROCUTION	25
3.7	• VISIBILITY	26
3.8	• WORKING ON ICY OR SNOW-COVERED SURFACES	26
3.9	• PREVENTING DAMAGE CAUSED BY THE WORK EQUIPMENT	26
3.10	• WORKING ON LOOSE GROUND	26
3.11	• PARKING THE MACHINE	27
4.	**TRANSPORTING THE MACHINE ON OTHER VEHICLES**	**28**
4.1	• LOADING AND UNLOADING	28
4.2	• THE ROUTE	28
5.	**THE BATTERY**	**29**
5.1	• SAFETY PRECAUTIONS FOR WORK ON BATTERIES	29
5.2	• STARTING THE ENGINE WITH JUMP LEADS	30
6.	**PRECAUTIONS FOR EMERGENCY RECOVERY**	**31**
7.	**PRECAUTIONS TO BE TAKEN DURING MAINTENANCE**	**32**
7.1	• WARNING PLATES	32
7.2	• TOOLS	32
7.3	• PERSONAL PRECAUTIONS	32
7.4	• EQUIPMENT	33
7.5	• WORKING UNDER THE MACHINE	33
7.6	• KEEPING THE MACHINE CLEAN	33
7.7	• RUNNING THE ENGINE DURING MAINTENANCE	34
7.8	• PERIODICAL CHANGE OF THE PARTS THAT ARE CRITICAL FOR SAFETY	34
7.9	• RULES FOR REFUELING AND ADDING OIL	35
7.10	• LEVEL OF COOLANT IN THE RADIATOR	35
7.11	• USING LAMPS	35
7.12	• PRECAUTIONS CONCERNING THE GEARSHIFT	36
7.13	• BATTERY AND ALTERNATOR PRECAUTIONS	36
7.14	• PRECAUTIONS CONCERNING THE STARTER	37
7.15	• PRECAUTIONS REGARDING HIGH PRESSURE HOSES	37
7.16	• PRECAUTIONS TO BE TAKEN WHEN WORKING ON HIGH PRESSURE SYSTEMS	38
7.17	• PRECAUTIONS FOR MAINTENANCE WORK INVOLVING HIGH TEMPERATURES AND PRESSURES	38
7.18	• THE RADIATOR COOLING FAN AND FAN BELT	38
7.19	• WASTE MATERIALS	39
7.20	• PRECAUTIONS FOR INFLATING TIRES	39
7.21	• PRECAUTIONS FOR THE INSTALLATION OF THE EXHAUST SYSTEM TAILPIPE	39
7.22	• PRECAUTIONS FOR THE USE OF THE synthetic biodegradable oil type HEES	40
8.	**SAFETY PLATES**	**41**
8.1	• POSITION OF THE SAFETY PLATES	41
8.2	• POSITION OF THE PICTOGRAMS	55
8.3	• PICTOGRAMS AND RELEVANT MEANINGS	57
8.4	• VIBRATIONS TO WHICH THE OPERATOR IS SUBJECTED	60

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Page

TECHNICAL SPECIFICATIONS

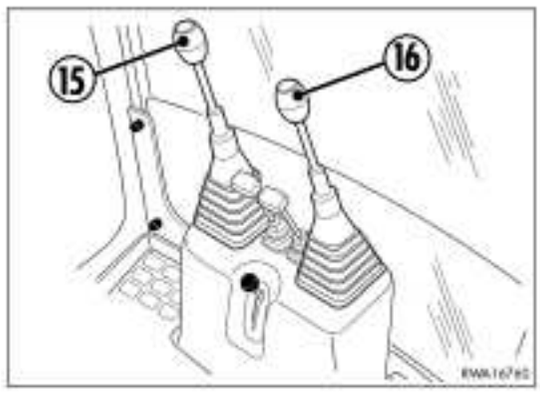
9. TECHNICAL DATA 62
9.1 • STANDARD OVERALL DIMENSIONS 62
9.2 • TECHNICAL CHARACTERISTICS WB140PS-2 63
9.3 • TECHNICAL CHARACTERISTICS WB150PS-2 64
9.4 • LIFTING CAPACITIES 65
9.4.1 • • SYMBOL TABLE 65
9.4.2 • • LIFTING CAPACITY WB140PS-2 66
9.4.3 • • LIFTING CAPACITY WB150PS-2 68

DESCRIPTION AND USE OF THE MACHINE

10. SAFETY LOCKS 72
10.1 • FRONT LOADER LOCK 72
10.2 • BACKHOE LOCKS 74
11. GENERAL VIEWS 75
11.1 • FRONT GENERAL VIEW 75
11.2 • BACKHOE GENERAL VIEW 76
11.3 • CAB INSIDE GENERAL VIEW 77
12. INSTRUMENTS AND CONTROLS 78
12.1 • FRONT INSTRUMENTS 78
12.2 • SIDE INSTRUMENTS 81
12.3 • PUSH BUTTONS ON THE FRONT LOADER CONTROL LEVER 85
12.4 • ELECTRICAL ACCESSORIES 86
12.5 • MACHINE CONTROLS 87
13. FUSES AND RELAYS 107
13.1 • EQUIPMENT FUSES AND RELAYS 107
13.2 • ENGINE FUSES AND RELAYS 109
14. GUARDS, CAB AND DRIVER'S SEAT 113
14.1 • ENGINE HOOD 113
14.2 • CANOPY 113
14.3 • CAB 114
14.4 • VENTILATION AND HEATING 116
14.5 • SEAT 117
14.6 • SAFETY BELT 117
14.7 • FIRE EXTINGUISHER 118
14.8 • FIRST AID KIT 118
14.9 • TECHNICAL DOCUMENTATION 118
14.10 • ADDITIONAL TOOL CASE (if provided) 118
15. USE OF THE MACHINE 119
15.1 • CHECKS BEFORE STARTING THE ENGINE 119
15.1.1 • • VISUAL CHECKS 119
15.1.2 • • DAILY CHECKS 119
15.1.3 • • OPERATIONAL CHECKS 120

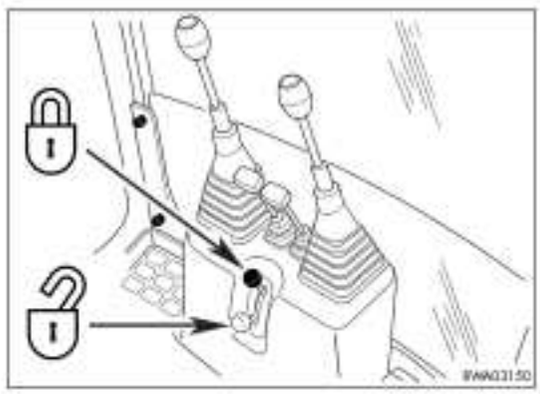
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15-16 - BACKHOE CONTROL LEVERS



WARNING

- **Before carrying out any maneuver with these levers, the operator must be sitting in the working position, that is, with the seat rotated by 180° with respect to the driving position and with fastened safety belt; before any maneuver, take all the precautions indicated in section "22. USING THE MACHINE AS AN EXCAVATOR".**
- **Before leaving the working position, lower the equipment to the ground and do not stop the engine if the safety lock is not engaged.**
- **When traveling on roads, always lock the levers by means of the safety lock.**



The backhoe control levers can be equipped with different boom, arm and bucket controls according to two different systems:

1 - ISO STANDARD CONTROLS

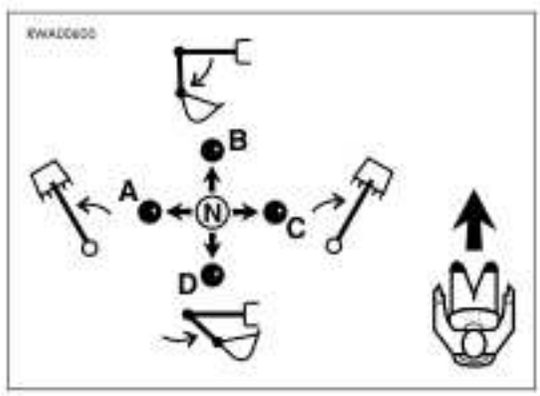
2 - KOMATSU BACKHOE CONTROLS

No movement can be carried out when the safety lever is shifted upwards (See "10.2 BACKHOE LOCKS").

The following diagrams show the basic and combined manoeuvres that can be performed with these three systems:

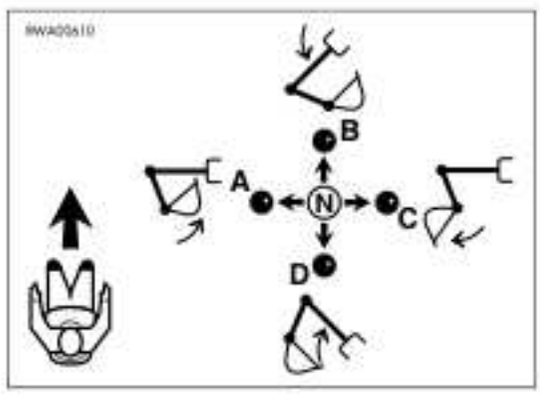
ISO STANDARD CONTROLS

LEVER 15 (BASIC MANEUVERS)



N - Neutral
A - Boom swing to the left
B - Arm opening
C - Boom swing to the right
D - Arm folding

LEVER 16 (BASIC MANEUVERS)



N - Neutral
A - Bucket curling
B - Boom lowering
C - Bucket opening
D - Boom raising

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28. MAINTENANCE PLAN

28.1 CHECKS BEFORE STARTING

N.	PART	OPERATION	PAGE
a	Various checks	—	175
b	Fuel tank	Check	175
c	Coolant	Check, (add fluid)	176
d	Engine oil pan	Check	176
e	Hydraulic oil tank	Check	177
f	Water separator	Drain water	178

28.2 MAINTENANCE EVERY 10 HOURS OF OPERATION

N.	PART	OPERATION	PAGE
a	Joints	Lubricate	178

28.3 MAINTENANCE AFTER THE FIRST 50 HOURS OF OPERATION (Only for machines in which the synthetic biodegradable oil type HEES is used)

(Carry out these operations together with those to be performed every 50 HOURS, see "28.4 MAINTENANCE EVERY 50 HOURS OF OPERATION")

N.	PART	OPERATION	PAGE
a	Hydraulic oil drain filter (Only for machines with synthetic biodegradable oil)	Change	192

28.4 MAINTENANCE EVERY 50 HOURS OF OPERATION

N.	PART	OPERATION	PAGE
a	Radiator	Check fluid level, (add fluid)	181
b	Braking system	Check oil level	181
c	Propeller shafts	Lubricate (6 points)	182
d	Front axle joints and central coupling	Lubricate (5 points)	183
e	Front and rear wheels	Check tire pressure	183
f	Electrical system	Check	184

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30.2 CHARACTERISTICS OF THE OPTIONAL EQUIPMENT FOR MODEL WB140PS-2

(Specific weight of the material handled = 1.8 tons/cu.m)

MACHINE

EQUIPMENT	MAX. WEIGHT kg (lb)	MAX. DIMENSIONS Width mm (inch)	MAX. DIMENSIONS Height mm (inch)	MAX. SAE CAPACITY cu.m (cu.yd.)	MAX. OPERATING PRESSURE bar (psi)	MAX. FLOW RATE l/min. (gpm)
Front bucket	450 (992)	2320 (91.4)	940 (37)	1.1 (1.44)	— —	— —
Front multipurpose bucket	750 (1654)	2340 (92.1)	1015 (40)	1.00 (1.30)	185 (2682)	75 (19.8)
Forks on front bucket	190 (419)	● ●	● ●	❑ ❑	— —	— —
Pallet forks	320 (706)	1800 (70.8)	800 (31.5)	❑ ❑	— —	— —

BACKHOE

Backhoe bucket	200 (441)	930 (36.6)	— —	0.305 (0.40)	— —	— —
Ditch-cleaning bucket	220 (485)	1600 (63)	— —	0.250 (0.33)	— —	— —
Trapezoidal bucket	190 (419)	2100 (82.6)	900 (35.4)	0.300 (0.40)	— —	— —
Hydraulic hammer	450 (992)	— —	— —	— —	160 (2320)	80 (21.2)
Drill	360 (794)	800 ❋ (31.5) ❋	2000 ▲ (78.7) ▲	— —	200 (2900)	120 (31.7)
Clamshell bucket	350 (772)	650 (25.6)	1800 (70.8)	0.200 (0.26)	200 (2900)	120 (31.7)

● Fork length 1140 mm (44.9 inch)

❑ Max. capacity 2000 kg (4409 lb)

❋ Measure referred to the tool diameter

▲ Measure referred to the tool length

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