CEAM012602

Operation & Maintenance Manual

WB140PS-2N

WB150PS-2N

BACKHOE LOADER

SERIAL NUMBERS WB140PS-2N A40034 and UP
WB150PS-2N A70010

December 2004

KOMATSU®

MidWestTech | Komatsu WB140PS-2N, WB150PS-2N Backhoe Loader Operation & Mainte... Order the manual at mid-west-tech.com >

CONTENTS

INTRODUCTION

FOREWORD 0-2
SAFETY INFORMATION 0-3
APPROVED AND NON APPROVED USES 0-4
APPROVED 0-4
NON APPROVED 0-4
PRODUCT INFORMATION 0-5
MAIN FEATURES 0-5
BREAK IN PERIOD 0-5
SYNTHETIC BIODEGRADABLE OIL TYPES 0-5
PRODUCT IDENTIFICATION 0-6
MACHINE SERIAL NUMBER 0-6
MACHINE IDENTIFICATION PLATE 0-6
ENGINE SERIAL NUMBER AND EMISSION LABEL 0-6
FRONT AXLE SERIAL NUMBER 0-7
REAR AXLE SERIAL NUMBER 0-7
TRANSMISSION SERIAL NUMBER 0-8
CAB SERIAL NUMBER 0-8
CANOPY SERIAL NUMBER 0-8
SERIAL NUMBERS AND DISTRIBUTOR INFORMATION 0-9
MODEL: WB140PS-2N / WB150PS-2N 0-9
CONTENTS 0-10

SAFETY

SAFETY AND WARNING DECALS 1-2
LOCATION OF THE SAFETY DECALS 1-2
LOCATION OF THE PICTOGRAM DECALS 1-16
DECALS DEFINED 1-18
SAFETY RULES AND PRECAUTIONS 1-20
GENERAL SAFETY RULES 1-20
SAFETY FEATURES 1-21
PERSONAL PROTECTIVE EQUIPMENT 1-21
UNAUTHORIZED MODIFICATIONS 1-21
LEAVING OPERATOR'S COMPARTMENT 1-22
MOUNTING AND DISMOUNTING 1-23
CHECKING THE REAR VIEW MIRRORS 1-23
FIRE PREVENTION FOR FUEL AND OIL 1-24
PREVENTING BURNS 1-24
DUST HAZARD PRECAUTIONS 1-24
CRUSH OR PINCH POINT DANGERS 1-25
FIRE EXTINGUISHER AND FIRST AID KIT 1-25

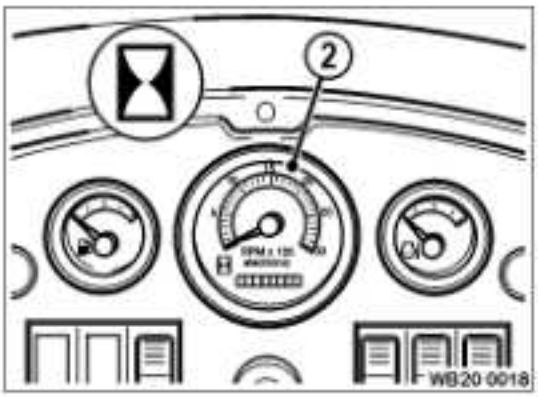
MidWestTech | Komatsu WB140PS-2N, WB150PS-2N Backhoe Loader Operation & Mainte... Order the manual at mid-west-tech.com >

TACHOMETER AND HOUR METER

This gauge ② indicates the engine rpm. The gauge also indicates the number of hours the engine has been running.

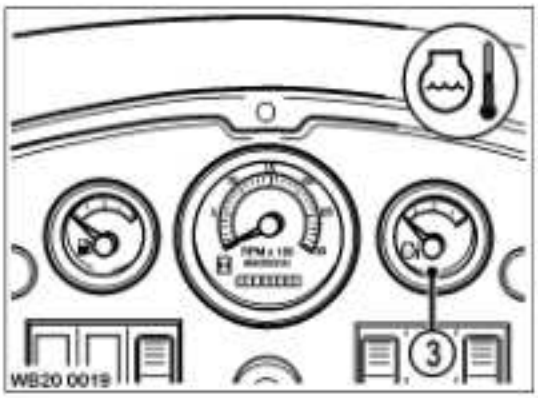
Remark

The hour meter is used to determine the maintenance intervals for the machine.



ENGINE COOLANT TEMPERATURE GAUGE

This gauge ① indicates the engine coolant temperature. The operating range is from 80 to 85° C. Always allow the engine ample time to warm up to within the operating range before working the machine. Never allow the engine to exceed the operating temperature, or engine damage could occur.



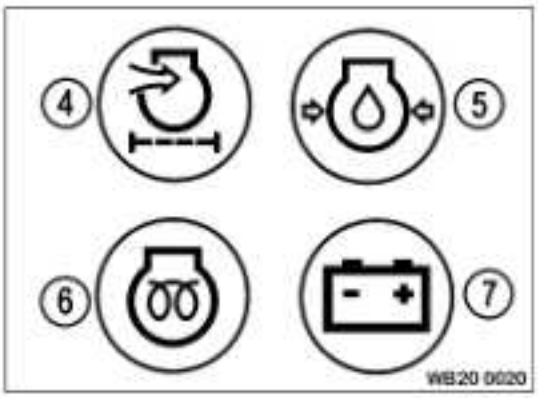
AIR CLEANER RESTRICTION ALERT

This warning light ④ comes on when the engine air filter is restricted. If this light comes on during operation, shut the machine down and replace the air filter. Do not operate the machine with a restricted air filtering system, or engine damage may result.

ENGINE OIL PRESSURE ALERT

This warning lamp ⑤ comes on in addition to an audible alarm sounding to alert the operator of an engine oil pressure loss. Turn off the engine immediately and have the system checked by your distributor if this light:

- Comes on or comes on intermittently during operation.
- Remains on after start up.
- Does not come on when the ignition key is turned to the on position.

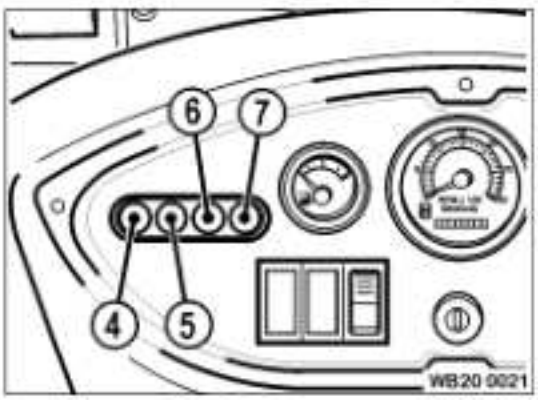


PREHEAT INDICATOR

The light ⑥ comes on when the ignition key is turned to this position for the cold start of the engine, see COLD WEATHER on page 2-61.

⚠ WARNING

Do NOT use ether to assist in cold weather starting because of the air intake heater. Damage to the engine and injury to the operator may result.



ALTERNATOR ALERT

This warning light ⑦ comes on in addition to an audible alarm sounding to alert the operator that the battery is not charging. If this light does NOT comes on when the ignition switch is turned to the IGN position, or comes on during operation or remains on after start up, have an your distributor check the charging system.

MidWestTech | Komatsu WB140PS-2N, WB150PS-2N Backhoe Loader Operation & Mainte... Order the manual at mid-west-tech.com >

Lever ⑩ Combined Maneuvers

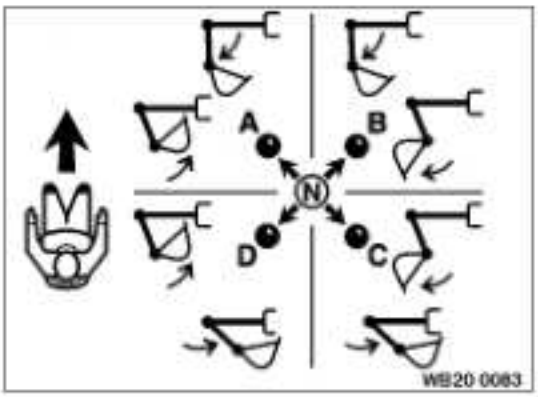
N - Neutral

A - Arm extend - bucket roll

B - Arm extend - bucket open

C - Arm retract - bucket open

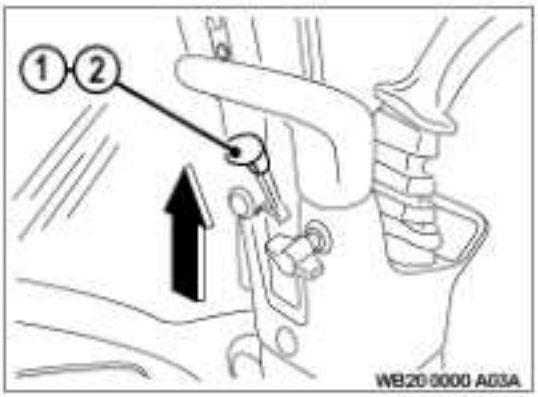
D - Arm retract - bucket roll



JOYSTICK LOCK LEVERS

⚠ WARNING

The operator must use the joystick locking levers while seated with the machine at rest. Before using these levers, always make sure that the backhoe locking switch is engaged.



These levers are positioned under the supports and their function is to lock or release the respective joysticks. It is possible to move both joysticks to the desired operating position by pressing the levers ① and ②. Once the desired position has been reached, release the levers to lock the joysticks.

At the end of the digging operation, always bring the joysticks back to the vertical position.

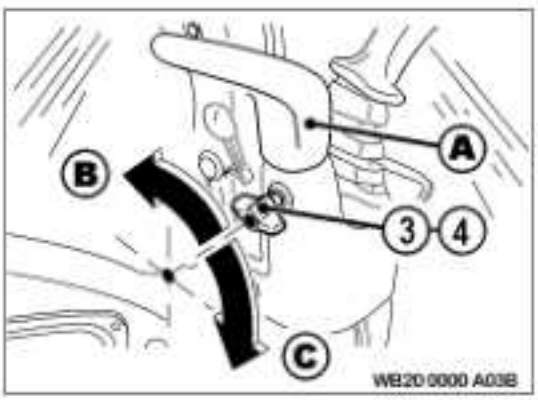
SUPPORT ADJUSTING KNOB

⚠ WARNING

The operator must adjust the supports while seated in the driving position, before starting work and with the machine completely still. Before adjusting these knobs, always be sure that the boom locking device is engaged.



These knobs make it possible to position the corresponding supports A at the desired height. To release and adjust the supports, it is sufficient to turn both the knobs ③ and ④ anticlockwise, as indicated by the arrow B. Once the supports have been positioned as desired, turn the knobs clockwise until locking them, as indicated by the arrow C. After carrying out the adjustment, make sure that the knobs ③ and ④ and the supports A are locked.



MidWestTech | Komatsu WB140PS-2N, WB150PS-2N Backhoe Loader Operation & Mainte... Order the manual at mid-west-tech.com >

MISCELLANEOUS

Unit: As marked

ITEM			UNIT	WB140PS-2N	WB150PS-2N
Operating weight		Minimum	kg	7400	7400
		Maximum		8800	8800
Bucket capacity		Loader	m^3	1.03	1.03
		Backhoe		0.20	0.20
Diesel engine	TIER I	Type		S4D106-1FH	S4D106-1FA
		Max power	kW	64.1 @ 2200 rpm	73 @ 2200 rpm
		Max torque	N•m	330 @ 1500 rpm	375 @ 1500 rpm
	TIER II	Type		S4D106-2XFH	S4D106-2SFA
		Max power	kW	65.1 @ 2200 rpm	70.1 @ 2200 rpm
		Max torque	N•m	348 @ 1400 rpm	368 @ 1600 rpm
Electrical system		Alternator	V	12	12
		Output	A	80	80
		Ground	---	Negative	Negative
		Battery	Ah @ V	155 @ 12	155 @ 12
		Starter	kW	3	3
Travel speeds		Forward 1st	km/h	6	6
		Forward 2nd		11	11
		Forward 3rd		21	21
		Forward 4th		39	39
		Reverse 1st		6	6
		Reverse 2nd		11	11
		Reverse 3rd		21	21
		Reverse 4th		39	39
Tire pressure	Front 14-17.5 NHSPR10		kg/cm^2	3.2	3.2
	Rear 19.5 L24 PR10			2.2	2.2

MidWestTech | Komatsu WB140PS-2N, WB150PS-2N Backhoe Loader Operation & Mainte... Order the manual at mid-west-tech.com >