WEAM002201

Operation & Maintenance Manual

KOMATSU®

WB140PS-2
WB150PS-2

BACKHOE LOADERS

SERIAL NUMBERS WB140PS-2 - 140F50001
WB150PS-2 - 150F50001
and up

October 2000

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TECHNICAL SPECIFICATIONS

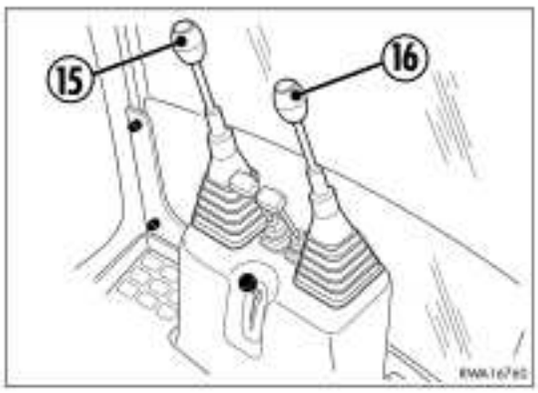
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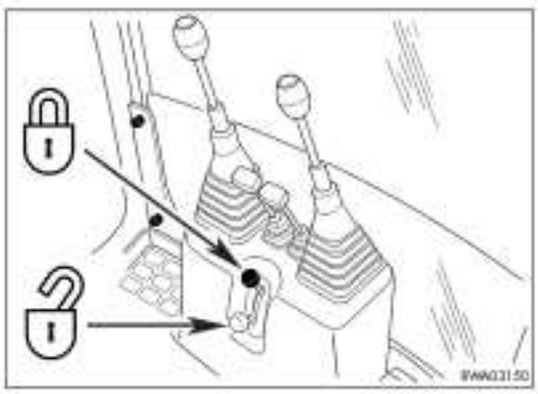
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15-16 - BACKHOE CONTROL LEVERS



DANGER

- **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

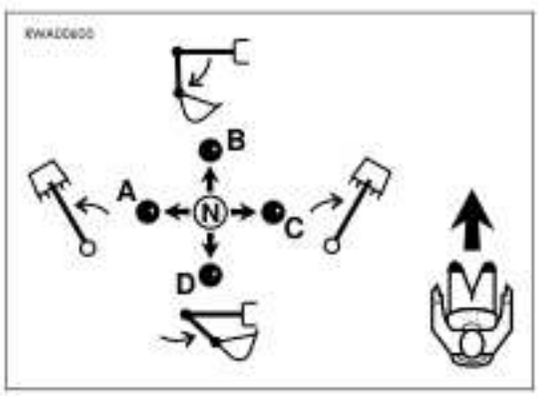
2 - KOMATSU BACKHOE CONTROLS

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:

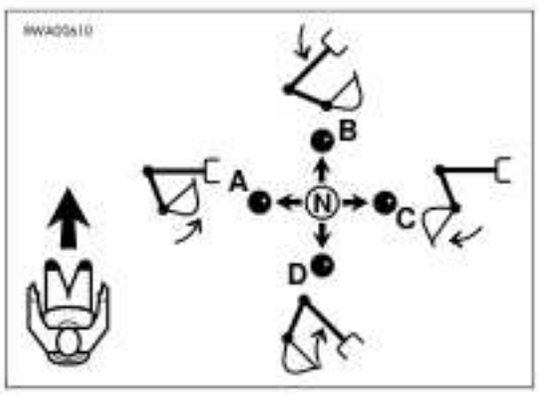
ISO STANDARD CONTROLS

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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26. FUEL, COOLANT AND LUBRICANTS

PROPER SELECTION ACCORDING TO THE AMBIENT TEMPERATURE

RESERVOIR	FLUID	AMBIENT TEMPERATURE	CAPACITY	
		-30 -20 -10 0 10 20 30 40 50°C -22 -4 14 32 50 68 86 104 122°F	1st filling	Change
Engine oil pan	OIL API CD	SAE 5W-30 SAE 10W SAE 20W-20 SAE 30 SAE 40 SAE 10W-30 SAE 15W-40	8.6 l (2.27 US gal) **WB140PS-2 Aspirated engine** 7.9 l (2.08 US gal) **WB140PS-2 Turbocharged engine** 8.6 l (2.27 US gal) **WB150PS-2 Turbocharged engine**	8.6 l (2.27 US gal) **WB140PS-2 Aspirated engine** 7.9 l (2.08 US gal) **WB140PS-2 Turbocharged engine** 8.6 l (2.27 US gal) **WB150PS-2 Turbocharged engine**
Hydraulic system	OIL API CD	SAE 5W ✱ SAE 10W SAE 30 SAE 10W-30	150 l (39.63 US gal)	92 l (24.30 US gal)
Front axle: Differential	(See Note 1)		6.5 l (1.72 US gal)	6.5 l (1.72 US gal)
Final reduction gear (ea.)			1 l (0.26 US gal)	1 l (0.26 US gal)
Rear axle: Differential			15 l (3.96 US gal)	15 l (3.96 US gal)
Final reduction gear (ea.)			3.5 l (0.92 US gal)	3.5 l (0.92 US gal)
Hydraulic transmission	OIL GM DEXRON® II D (DEXRON® is a registered trademark of General Motors Corporation)		19 l (5.02 US gal)	16 l (4.22 US gal)
Braking system			0.8 l (0.21 US gal)	0.8 l (0.21 US gal)
Fuel tank	DIESEL OIL	✱✱ ASTM D975 N. 2	130 l (34.34 US gal)	— —

✱ OPTION FOR VERY COLD AREAS
✱✱ ASTM D975 N.1

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28.3 MAINTENANCE AFTER THE FIRST 250 HOURS OF OPERATION

Carry out the following maintenance operations after the first 250 hours, together with those to be performed "EVERY 250 HOURS".

- FRONT AXLE OIL CHANGE
- REAR AXLE OIL CHANGE
- HYDRAULIC TRANSMISSION OIL CHANGE
- HYDRAULIC TRANSMISSION OIL FILTER CHANGE
- ENGINE VALVE CLEARANCE CHECK AND ADJUSTMENT
- HYDRAULIC OIL DRAIN FILTER CHANGE

For details on the various maintenance operations, see the sections "EVERY 500 HOURS" and "EVERY 1000 HOURS".

For checks and adjustments, contact your Komatsu Dealer.

28.4 MAINTENANCE EVERY 250 HOURS OF OPERATION

Carry out the following operations together with those to be performed every 50 HOURS:

28.4.a ADJUSTING THE FAN BELT TENSION

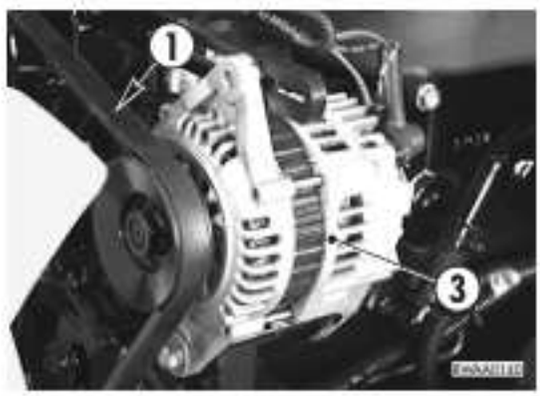
The fan belt can be reached after opening the engine hood (See "14.1 ENGINE HOOD").
The control is manual: press the belt (1) with a thumb on the indicated pont with a force equal to approx. 98 N (22 lb); the resulting deflection must be approximately 10-15 mm (0.4-0.6 in).
If the deflection exceeds this value, loosen the screw (2) that fastens the alternator (3) and, with a lever inserted between the engine block and casing, make the alternator slide.
Lock the screw (2) again and check again.
Use a 12 mm wrench.

A -Fan pulley

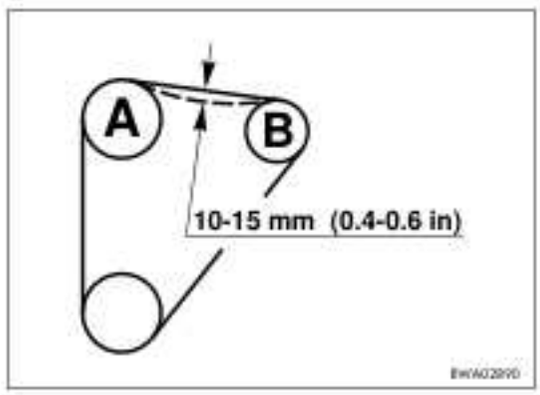
B -Alternator pulley

IMPORTANT

- **If the belt is worn, change it and check the tension again after a few hours of operation.**







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