WEAM000604

Operation & Maintenance Manual

WB97R-2

avance

BACKHOE-LOADER

SERIAL NUMBER

WB97R-2 97F20887 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.

KOMATSU

Utility

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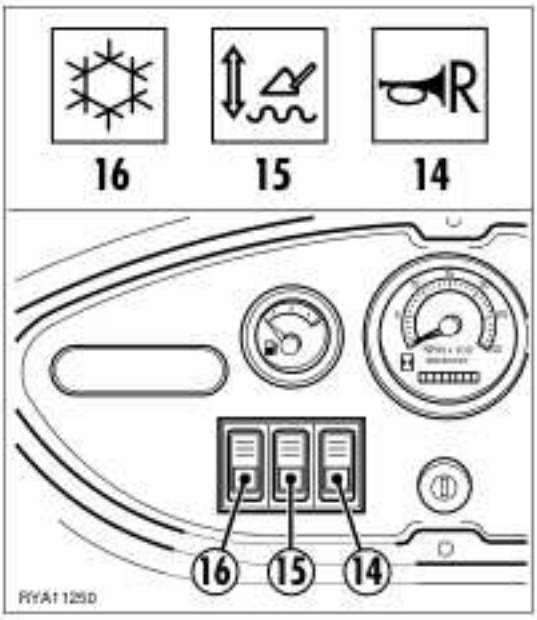
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14 - REAR HORN

It serves to warn the persons in the surrounding area before starting work and in case of danger when working with the backhoe.



15 - LOAD STABILIZER SYSTEM SWITCH (if provided)

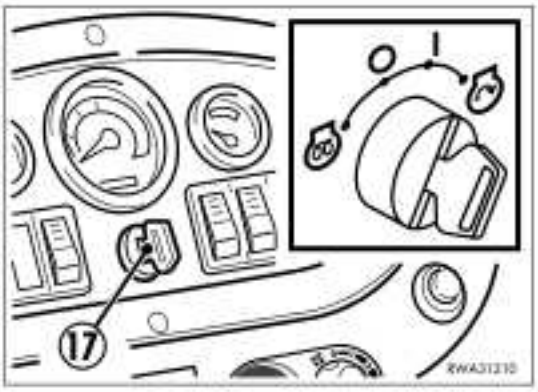
When this switch is pressed, the green led comes on and the load stabilizer system is operated.
To recharge the battery and to keep the pressure constant, press the switch. For further information on the LSS system, see "6.11 LOAD STABILIZER SYSTEM (LSS)".

16 - AIR CONDITIONER SWITCH (if provided)

When this switch is pressed, the relevant green led comes on and the air conditioner is started.
For further information on the operation of the air conditioning system, see "6.12 AIR CONDITIONER".

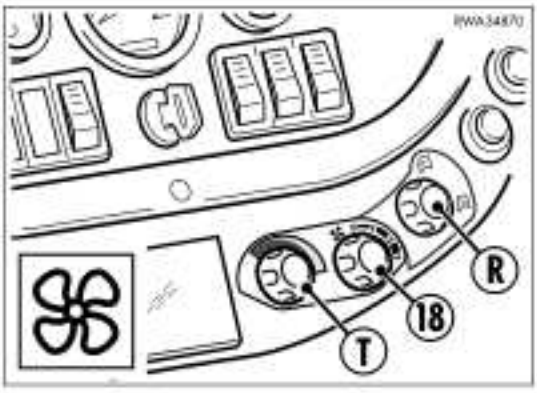
17 - IGNITION SWITCH

The ignition switch is a rotary key switch with four positions marked with the following symbols: «⚙» - O (OFF) - I - «⚙» (START).
For further details on the use of this switch see "3.6.2 STARTING THE ENGINE").



18 - FAN SWITCH

It is a three-speed switch and operates the fan motor. Turn the switch clockwise to increase the fan speed.
If operated after the opening of the tap installed on the heater, it ensures the circulation of warm air and serves as heating switch (See "3.5.4 VENTILATION AND HEATING").
The temperature of the air delivered by the heater is adjusted through the knob (T). Turn the knob clockwise to increase the temperature and counterclockwise to reduce it.
If the machine is provided with air conditioning system, the three knobs (T), (18) and (R) can be used to adjust the air flow and therefore to choose the temperature inside the cab. For further information, see "6.12 AIR CONDITIONER".



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4.7.7 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 Utility Dealer.

4.7.8 MAINTENANCE EVERY 250 HOURS OF OPERATION

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

4.7.8.a ADJUSTING THE FAN BELT TENSION

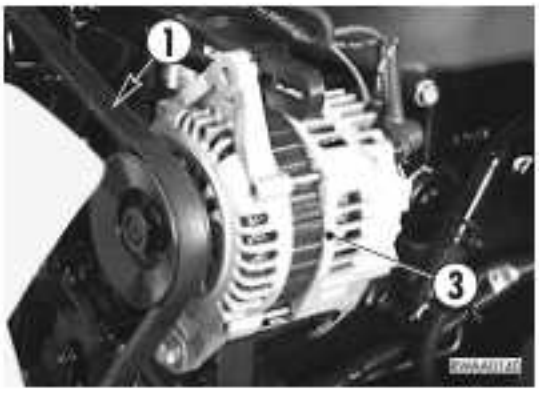
The fan belt can be reached after opening the engine hood (See "3.5.1 ENGINE HOOD").
The control is manual: press the belt (1) with a thumb on the indicated pont with a force equal to approx. 10 kg; the resulting deflection must be approximately 10÷15 mm.
If the deflection exceeds this value, loosen 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 spanner.

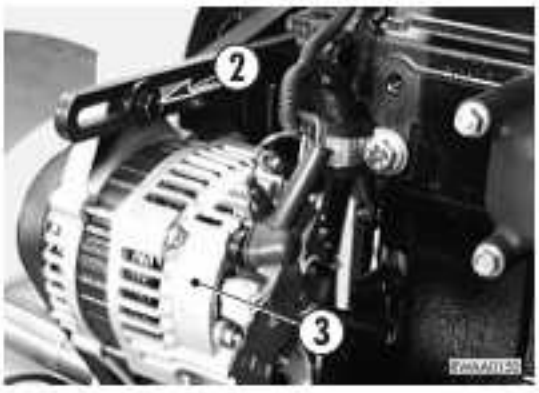
A - Fan pulley

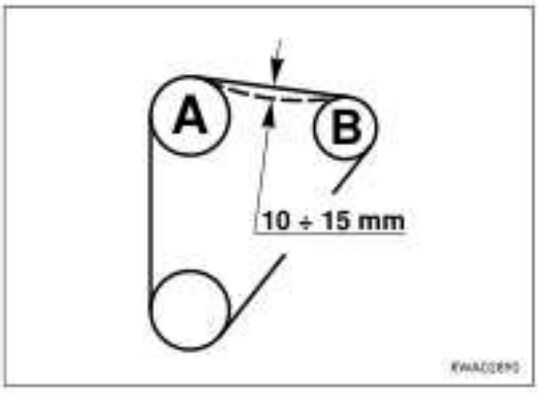
B - Alternator pulley

IMPORTANT

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







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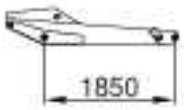
5.1.3 LIFTING CAPACITIES

CAUTION

- **According to the harmonized standard EN474-5 (§ 4.1.7.5), the machine cannot lift weights exceeding 1000 kg, unless it is provided with appropriate equipment.**
- **Carry out lifting operations only with the machine positioned on firm and flat ground.**

5.1.3.1 SYMBOL TABLE

A - Standard arm length L= 1850 mm



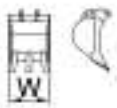
B - Telescopic arm completely retracted

C - Telescopic arm completely extended



D - Standard operating mass

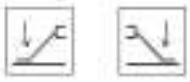
E - Standard backhoe bucket width and mas W= 600 mm / kg 160



F - Operating hydraulic pressu



G - Lowered stabilizers



P - Lifting capacity



Z - Distance of the lifting point from the ground

X - Distance between the boom swing axis and the bucket lifting point

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