WEAM002304

Operation & Maintenance Manual

WB91R-2
WB93R-2
avance

BACKHOE-LOADER

SERIAL NUMBER

WB91R-2 91F20250 and up
WB93R-2 93F25184 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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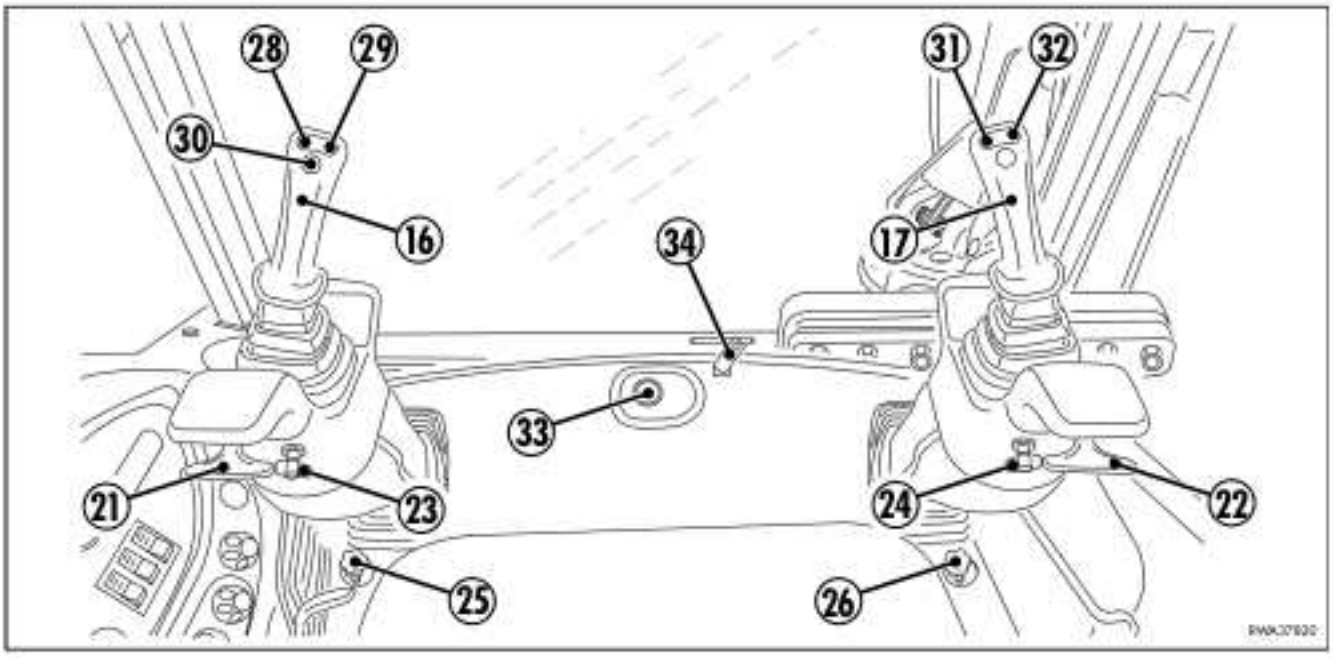
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21 - Left joystick locking lever
(only with servo control system)

22 - Right joystick locking lever
(only with servo control system)

23 - Left support adjusting knob
(only with servo control system)

24 - Right support adjusting knob
(only with servo control system)

25 - Left joystick stroke adjusting knob
(only with servo control system)

26 - Right joystick stroke adjusting knob
(only with servo control system)

27 - Backhoe control locking switch
(only with servo control system)

28 - Offset boom left swing control push button
(if installed and only with servo control system)

29 - Offset arm right swing control push button
(if installed and only with servo control system)

30 - Horn push button
(only with servo control system)

31 - Telescopic arm extension control push button
(if installed and only with servo control system)

32 - Telescopic arm retraction control push button
(if installed and only with servo control system)

33 - Hammer control push button
(if installed and only with servo control system)

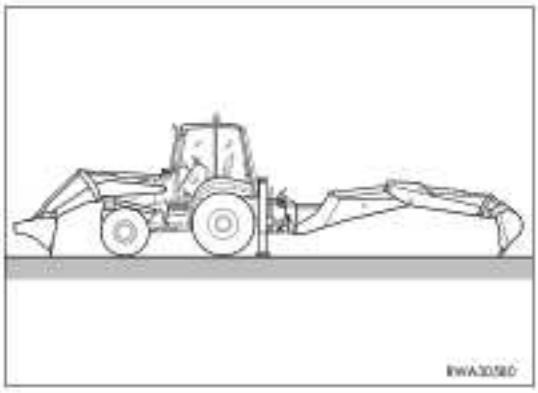
34 - Pattern change control lever
(if installed and only with servo control system)

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4.7.12 MAINTENANCE EVERY 2000 HOURS OF OPERATION

Carry out these operations together with those to be performed every 50, 250, 500 and 1000 HOURS.

4.7.12.a CHANGING THE HYDRAULIC SYSTEM OIL AND CLEANING THE SUCTION FILTER

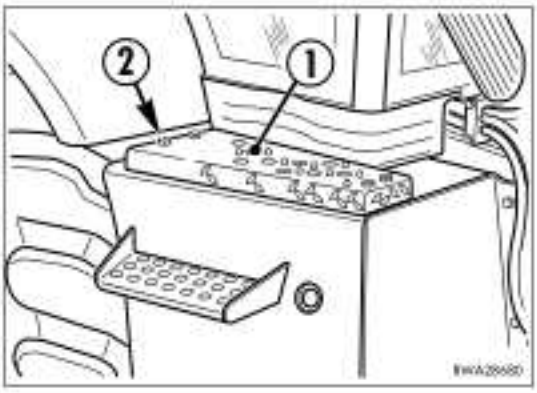


CAUTION

- **On machines containing synthetic biodegradable hydraulic oil type HEES, carry out the change after the first 500 hours of operation and successively every 2000 hours, and in any case at least once a year.**

DANGER

- **After stopping the engine, with the machine positioned so that maintenance can be performed, release the residual pressures from the work equipment circuits (by operating the controls more than once) and from the tank (by slowly loosening the filling cap).**
- **Let the oil cool down until it reaches 4045°C before carrying out any maintenance operation.**
- **Immediately clean any area dirty with oil.**
- **Oils, filters, the coolant and the battery are considered special waste and must be collected and disposed of according to the anti-pollution regulations in force.**



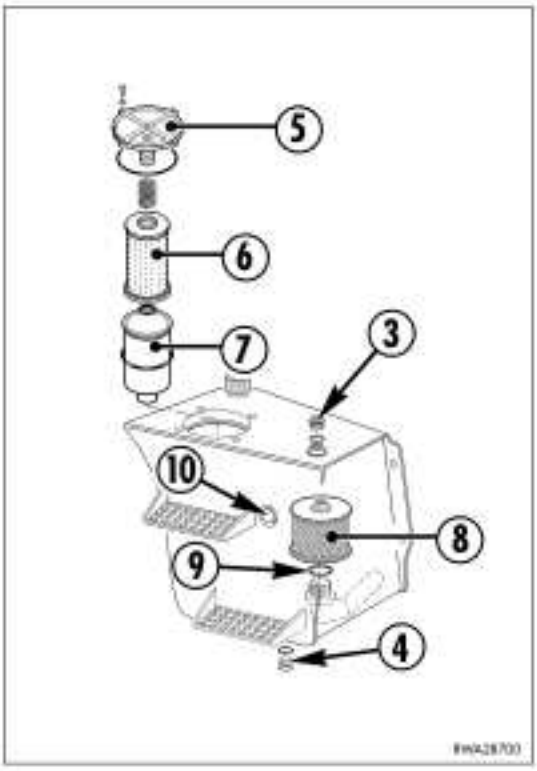
The filter can be reached after removing the platform (1) with the relevant fastening screws (2). Use a 17 mm spanner.

1 - Remove the filling cap (3).
(Use a 24 mm spanner).

2 - Remove the drain plug (4) and let the oil flow out, gathering it into a container with suitable capacity.
Use a 41 mm spanner.

3 - Remove the upper flange (5), the filter cartridge (6) and the filter casing (7).
Use a 13 mm spanner.

4 - Remove the grid filter (8), complete with gasket (9) and clean it with light solvents (petrol, kerosene, diesel oil, etc.).



IMPORTANT

- **Carefully check the filtering element grid and if it is not in perfect conditions, change it.**

5 - Put back the filter (8) complete with the gasket (9).

6 - Change the filter cartridge (6) and reassemble the whole unit. (See "4.7.10.c CHANGING THE HYDRAULIC SYSTEM OIL FILTER").

7 - Put back the drain plug (4) and fill the oil tank with the prescribed oil until reaching the level (10).

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6.1.2 CHARACTERISTICS OF THE OPTIONAL EQUIPMENT

6.1.2.1 CHARACTERISTICS OF THE OPTIONAL EQUIPMENT FOR MODEL WB91R-2

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

MACHINE

EQUIPMENT	MAX. WEIGHT (kg)	MAX. DIMENSIONS		MAX. ISO CAPACITY (cu.m)	MAX. OPERATING PRESSURE (bar)	MAX. FLOW RATE (l/min.)
		Width (mm)	Height (mm)			
Front bucket	450	2320	940	1.1	—	—
Front 4in1 bucket	750	2340	1015	1.0	185	75
Forks on front bucket	190	●	●	❑	—	—
Pallet forks	320	1800	800	■	—	—

BACKHOE

Backhoe bucket	200	930	—	0.305	—	—
Ditch-cleaning bucket	220	1600	—	0.250	—	—
Trapezoidal bucket	190	2100	900	0.300	—	—
Hydraulic hammer	400	—	—	—	160	80
Drill	360	800 ✻	2000 ▲	—	200	120
Clamshell bucket	350	650	1800	0.200	200	120

● Fork length 1140 mm

❑ Lifting capacity 2000 Kg.
(The loads that can be handled are also limited according to the capacity stamped on the forks, see "6.4 PALLET FORKS").

■ Lifting capacity 2500 Kg.
(The loads that can be handled are also limited according to the capacity stamped on the forks, see "6.4 PALLET FORKS").

✻ Measure referred to the tool diameter

▲ Measure referred to the tool length

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