CEAM002600

Operation & Maintenance Manual

KOMATSU®

WA900-1

WHEEL LOADER

SERIAL NUMBERS **WA900-1LC - A20008** and up

April 1998

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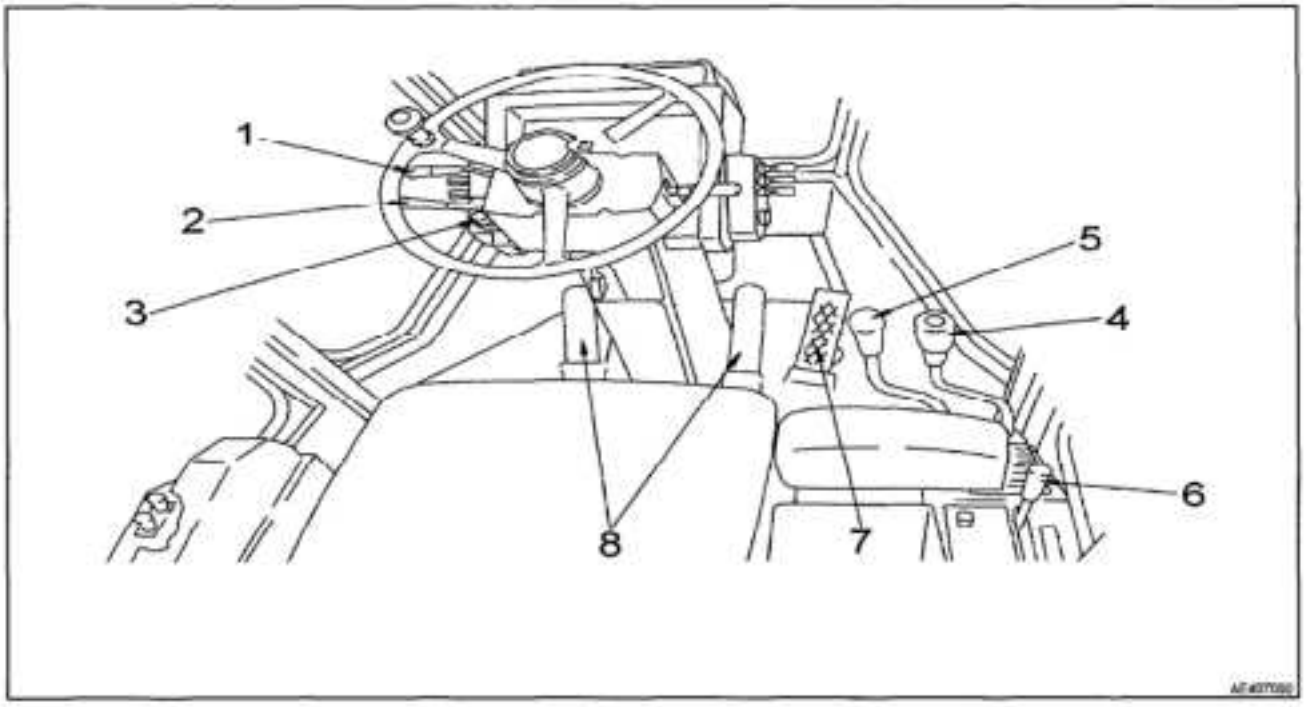
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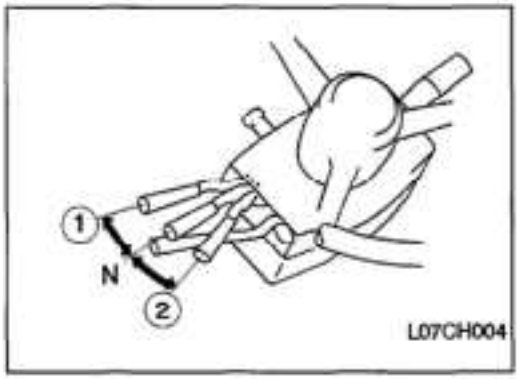
11.4 CONTROL LEVERS, PEDALS



1. DIRECTIONAL LEVER

This lever is used to change the direction of travel of the machine.

1 Forward
2 Reverse
N Neutral



★ The engine cannot be started if the directional lever is not at N (neutral).
★ When operating the directional lever, place your hand on a steering wheel and operate it by your fingers.
★ The length of the lever can be adjusted freely within a range of 43 mm (1.69 in) for dimension ℓ. To adjust, pull out knob (1), loosen locknut (2), then turn bolt (3) to adjust. After adjusting, tighten locknut (2) then push knob (1) in fully. Set dimension ℓ to within 43 mm (1.69 in). If it is longer than this, the remaining thread is too short, and there is danger that it may come out.

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20.3 TRANSMISSION, SERVICE BRAKE SYSTEM AND HYDRAULIC SYSTEM OIL SPECIFICATIONS

Use API performance classification CE engine oil.

20.4 AXLE OIL SPECIFICATIONS

For axle oil, use only the recommended oil as follows:

SHELL:	DONAX TT or TD
CALTEX:	RPM TRACTOR HYDRAULIC FLUID
CHEVRON:	TRACTOR HYDRAULIC FLUID
TEXACO:	TDH OIL
MOBIL:	MOBIL 424

★ It is possible to substitute engine oil SAE 30W API classification CD or CE for axle oil. Although increased brake noise may result, durability should not be affected.

20.5 DIESEL FUEL SPECIFICATIONS

⚠ WARNING

Do not mix gasoline or alcohol with diesel fuel. This mixture can cause an explosion.

NOTICE:

Due to the precise tolerances of diesel injection systems, it is extremely important that the fuel be kept clean and free of dirt or water. Dirt or water in the system can cause severe damage to both the injection pump and nozzles.

For normal service above -10°C (+14°F), the use of ASTM Grade No. 2-D diesel fuel with a minimum Cetane number of 40 is recommended. The use of No. 2-D diesel fuel will result in optimum engine performance under most operating conditions. Fuels with Cetane numbers higher than 40 may be needed in high altitudes or extremely low ambient temperatures to prevent misfires and excessive smoke.

At operating temperatures below -10°C (+14°F), use ASTM Grade No. 1-D diesel fuel. The use of lighter fuels can reduce fuel economy.

Where a winterized blend of Grade No. 2-D and No. 1-D fuels is available, it may be substituted for Grade No. 1-D fuel. However, it is the supplier's responsibility to provide the fuel for the anticipated ambient temperature.

Use a low sulfur content fuel having a cloud point that is at least 10 degrees below the lowest expected fuel temperature. Cloud point is the temperature at which crystals begin to form in the fuel.

The viscosity of the fuel **must** be kept above 1.3 cSt to provide adequate fuel system lubrication.

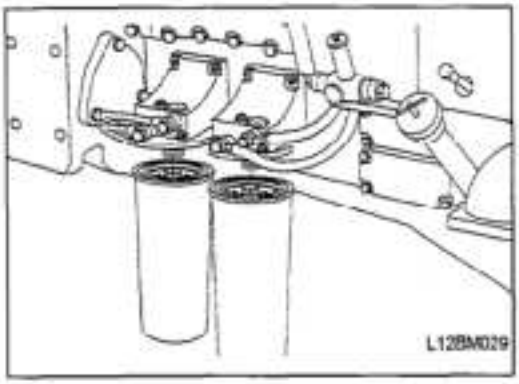
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24.7.2 FUEL FILTERS

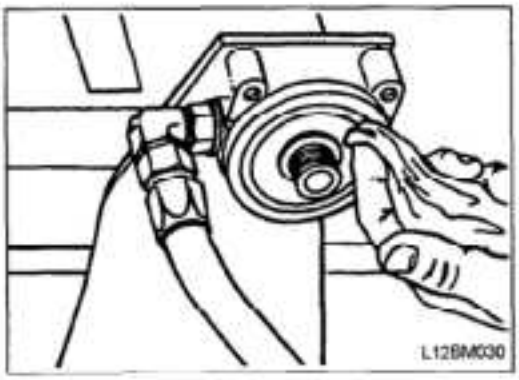
⚠ WARNING

- **Engine is at high temperature immediately after machine has been operated. Wait for engine to cool down before replacing the fuel filters.**
- **Do not bring fire or sparks near the fuel.**

1. Open the engine side access cover on the right side of the machine, and Clean the area around the fuel filters.



2. Using a filter wrench, remove the fuel filters by turning them counterclockwise. Discard the filters in a suitable manner if they are **not** needed for any reason.

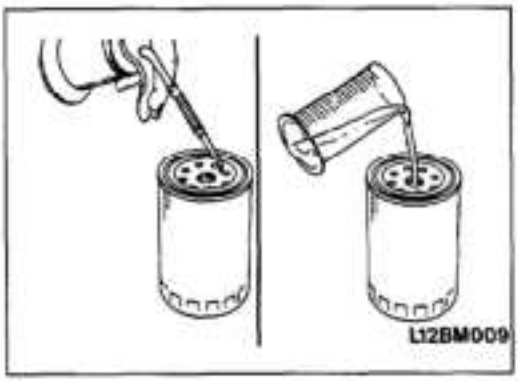


3. Use a clean lint free towel to clean the filter head gasket surfaces for each filter. Replace the filter O-rings.

⚠ CAUTION

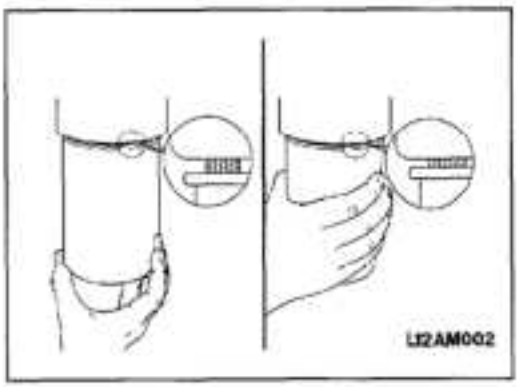
To prevent fuel leaks, make sure the fuel filter is installed tightly, but not over tightened. Over tightening of The filter can distort the threads or damage the filter element seal.

4. Fill the new filters with clean diesel fuel. Then, apply a thin coat of clean engine oil to the seal of the filter. Install the filters on the filter header until the filter seal contacts the seal surface of the filter header and then, turn the filter an additional 1/2 to 3/4 turn by hand.



5. After replacing the filters, start the engine and idle it for a few minutes. Check the filters for possible fuel leakage.

6. Close the engine side access cover.



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