Operation & Maintenance Manual

TEN00007-02

[redacted]

avance LOADER

WA800L-3

WHEEL LOADER

SERIAL NUMBERS WA800L-52001 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.

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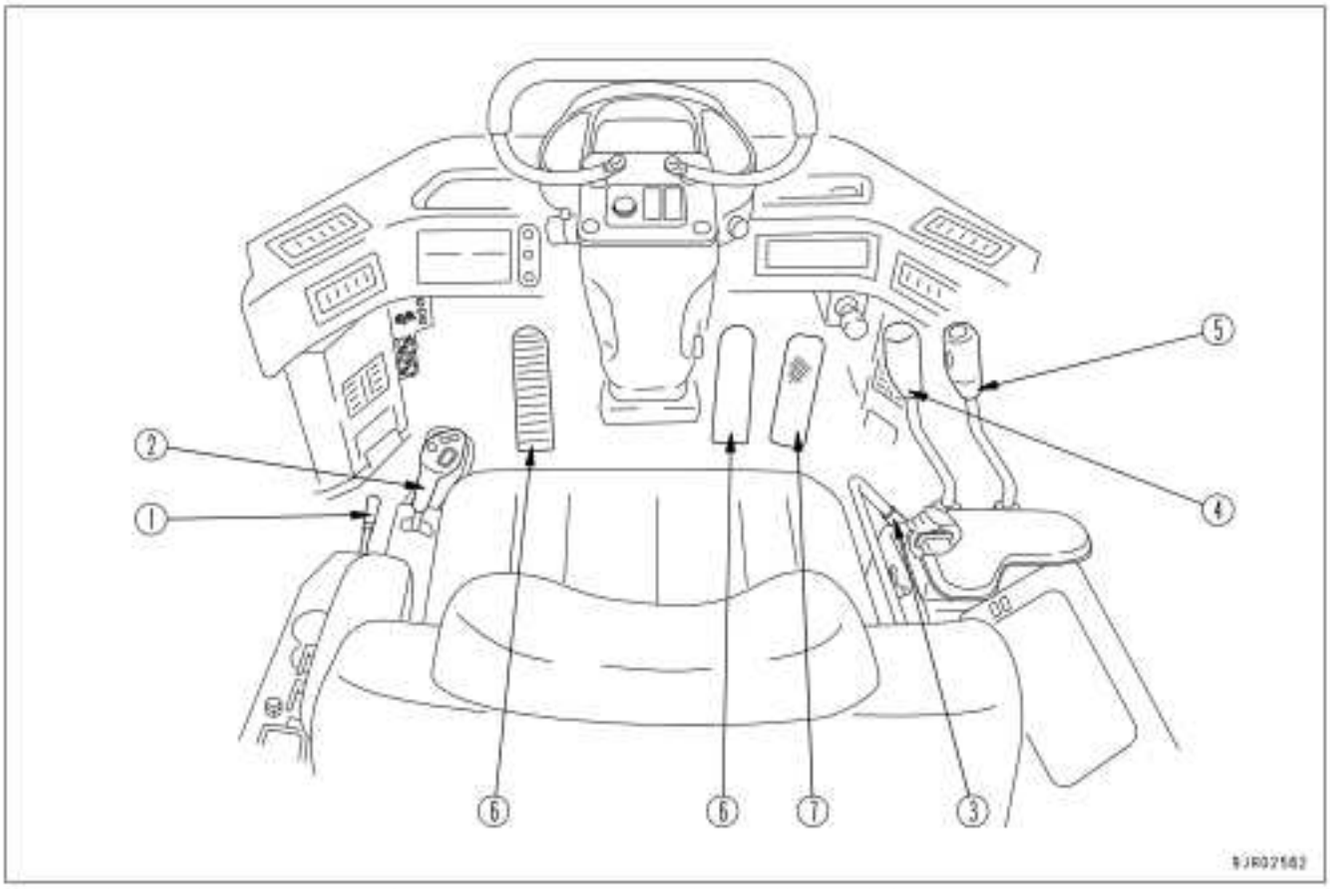
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CONTROL LEVERS, PEDALS



(1) Safety lock lever (for joystick steering lever)
(2) Joystick steering lever
(3) Safety lock lever (for work equipment control lever)
(4) Bucket control lever
(5) Lift arm control lever
(6) Brake pedal
(7) Accelerator pedal

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TRANSMISSION, CONVERTER, TRANSFER CASE, COOLER, SERVICE BRAKES AND HYDRAULIC SYSTEM OIL SPECIFICATIONS

KOMATSU Engine Oil or engine oil meeting American Petroleum Institute (API) performance classification CF-4, CG-4, CF-4/SG or CG-4/SH or MIL-L-2104D or E is recommended.

NOTICE
Classification CD, CE, CD/SF or CE/SF oils may be used in areas where CF-4, CG-4, CF-4/SG or CG-4/SH oil is not yet available.

DRIVE AXLE OIL SPECIFICATIONS

For Drive Axle Oil, Use Only The Recommended Oil As Follows	
SHELL	DONAX TD
ESSO	TORQUE FLUID 56
MOBIL	MOBIL FLUID 424

Engine oil SAE 30W API classification CD or CE can be substituted for axle oil, it might increase in brake noise, but it will not affect durability.

DIESEL FUEL SPECIFICATIONS

⚠ WARNING

Never mix gasoline, gasohol and/or alcohol with diesel fuel. This practice creates an extreme fire hazard and under certain conditions an explosion could result in personal injury or death. Never remove the fuel tank filler cap or refill the fuel tank while the engine is running, hot or when the machine is indoors. Fumes are dangerous, as a spark or flame could result in a fire or explosion.

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

NOTICE
Below -12°C (+10°F) the paraffin in ASTM Grade No. 2-D diesel fuel will change to wax particles and clog the fuel filters. For best results use Grade No. 1-D diesel fuel in cold weather.

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) or extended engine idle, 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. It is the suppliers 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. Optionally, the equivalent grades of recognized Federal Government specifications may be used; the latest revisions of VV-F-800a.

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SERVICE PROCEDURE

INITIAL 250 HOURS SERVICE

Perform the following maintenance only after the first 250 hours.

- Replace fuel filter cartridge
- Replace transmission oil filter element
- Check engine valve clearance, adjust

  Special tools are needed for inspection and maintenance, so contact your Komatsu distributor.

For details of the method of replacing or maintaining, see the section on EVERY 500 HOURS and 2000 HOURS SERVICE.

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