CEAM000601

Operation & Maintenance Manual

KOMATSU®

WA420-3

WHEEL LOADER

SERIAL NUMBERS WA420-3LE A30001 and up

ENGINE 6D114E-1

April 2016

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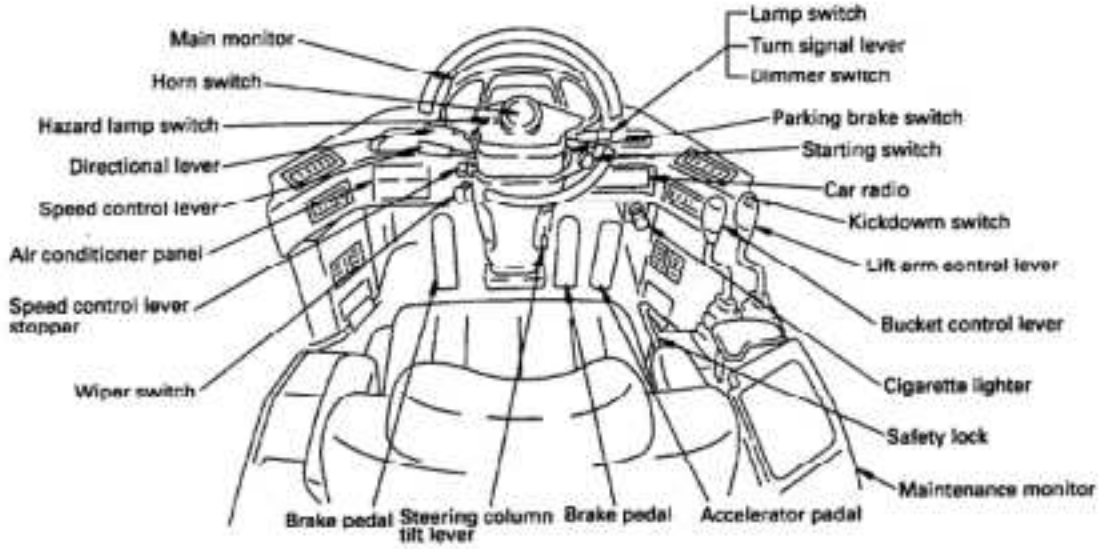
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SPECIFICATIONS

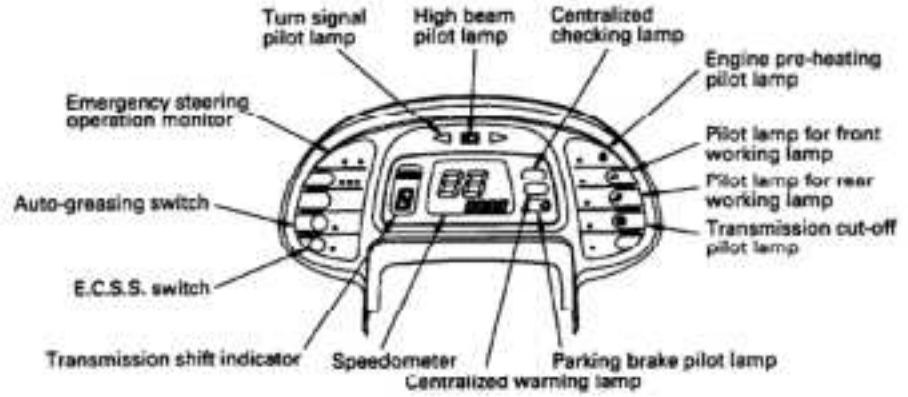
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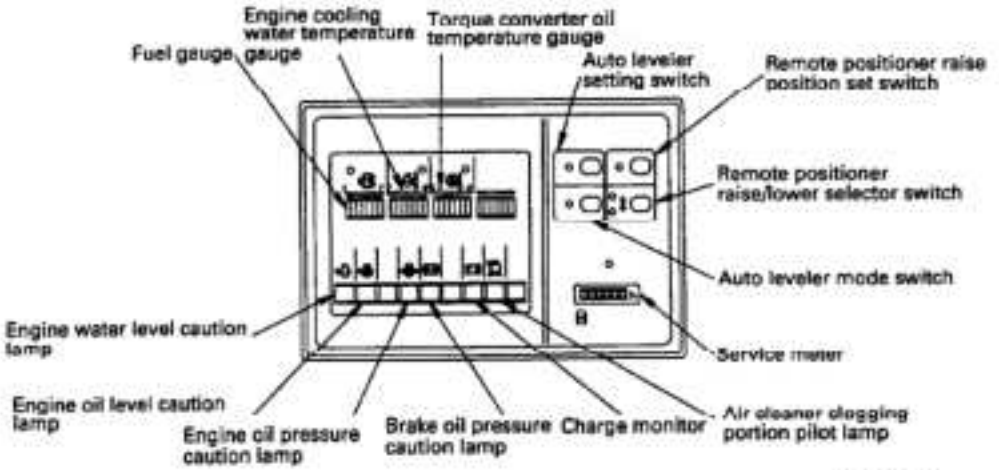
10.2 GENERAL VIEW OF CONTROLS AND GAUGES



MAIN MONITOR



MAINTENANCE MONITOR



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18.1.4 GREASE

- Grease is used to reduce friction and help prevent wear, twisting and noise at the joints.
- Grease fittings that were not referred to in the maintenance schedule do not require any scheduled greasing. Add grease to these areas only if something becomes stiff or squeaky.
- Always wipe off all of the old grease that is pushed out when greasing. Be particularly careful to wipe off the old grease in places where sand or dirt sticking in the grease would cause wear of the rotating parts.

18.1.5 STORING OIL AND FUEL

- Keep indoors to prevent any water, dirt, or other impurities from getting into storage containers.
- When keeping drums for a long period, put the drum on its side so that the filler port of the drum is at the side. (To prevent moisture from being sucked in) Periodically inspect drums for leakage.
  If drums have to be stored outside, cover them with a waterproof sheet or take other measures to protect them.
- To prevent any change in quality during long-term storage, be sure to use in the order of first in - first out (use the oldest oil or fuel first).

18.1.6 FILTERS

- Filters are extremely important safety parts. They prevent impurities in the fluid and air circuits from entering important equipment and causing problems.
  Replace all filters periodically. For details, **see "23. MAINTENANCE SCHEDULE CHART" on page 3-26.**
  However, when working in severe conditions, it is necessary to consider replacing the filters at shorter intervals according to the oil and fuel (sulfur content) being used.
- Never try to clean the filters (cartridge type) and use them again. Always replace with new filters.
- When replacing oil filters, check if any metal particles are stuck to the old filter. If any metal particles are found, please contact your distributor.
- Do not open packs of spare filters until just before they are to be used.
- Always use genuine Komatsu filters.

FUEL INJECTION PUMP

DO NOT ATTEMPT TO ADJUST THE FUEL INJECTION PUMP

Unsatisfactory operation of the engine may not be due to the fuel injection pump. If unsatisfactory operation persists after servicing the filters, consult your distributor to service the fuel injection pump. Special equipment and knowledge are required for proper injection pump service. These are available at your distributor.

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25. SPECIFICATIONS

WA420-3

			SMALLER SIZE TIRE	LARGER SIZE TIRE
			23.5-25(L3)	26.5-25 L3)
PERFORMANCE				
• Bucket capacity			3.7 m³ (4.8 cu.yd)	
• Normal load			5920 kg (13055 lb)	
• Travel speed	FORWARD	1st	6.3 km/h (3.9 mph)	6.8 km/h (4.2 mph)
		2nd	11.7 km/h (7.3 mph)	12.7 km/h (7.7 mph)
		3rd	20.5 km/h (12.7 mph)	22.1 km/h (13.7 mph)
		4th	32.8 km/h (20.4 mph)	34.5 km/h (21.4 mph)
	REVERSE	1st	6.6 km/h (4.1 mph)	7.1 km/h (4.4 mph)
		2nd	12.2 km/h (7.6 mph)	13.2 km/h (8.2 mph)
		3rd	21.2 km/h (13.2 mph)	22.9 km/h (14.2 mph)
		4th	33.9 km/h (21.1 mph)	36.0 km/h (22.4 mph)
• Min. turning radius	Outside of chassis		6560 mm (21 ft 6 in)	
	Center of outside tire		5650 mm (18 ft 6 in)	
• **WEIGHT**				
• Operating weight (includes full fuel tank, ROPS cab, front fenders and optional counterweight			18656 kg (41130 lb)	19080 kg (41976 lb)
• **ENGINE**				
• Model			Komatsu SAA6D114E-1 diesel engine	
• Gross power			172 kW (230 hp)	
• Net horsepower @ 2200 RPM			160 kW (215 hp)	
• Max. torque (gross) @ 1500 RPM			908 N•m (670 lbf ft)	
• Starting motor			24V 7.5 kW	
• Alternator			24V 50A	
• Battery (quantity 2)			12V 170 Ah	

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