CEAM000202

Operation & Maintenance Manual

KOMATSU®

WA450-3

WHEEL LOADER

SERIAL NUMBERS WA450-3 A30001 and up

ENGINE CUMMINS M11

April 2016

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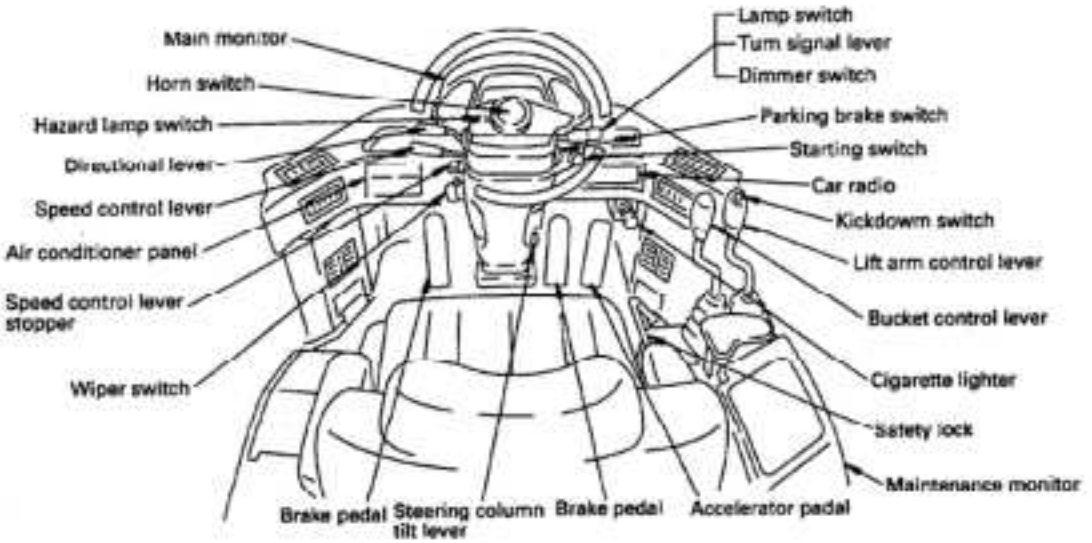
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SPECIFICATIONS

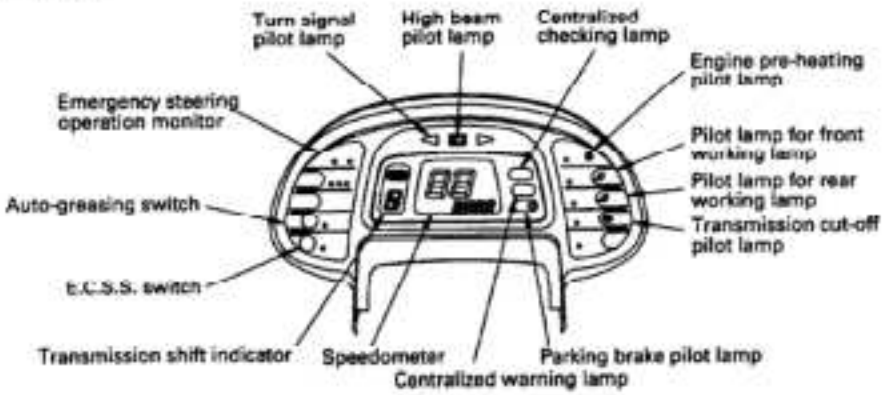
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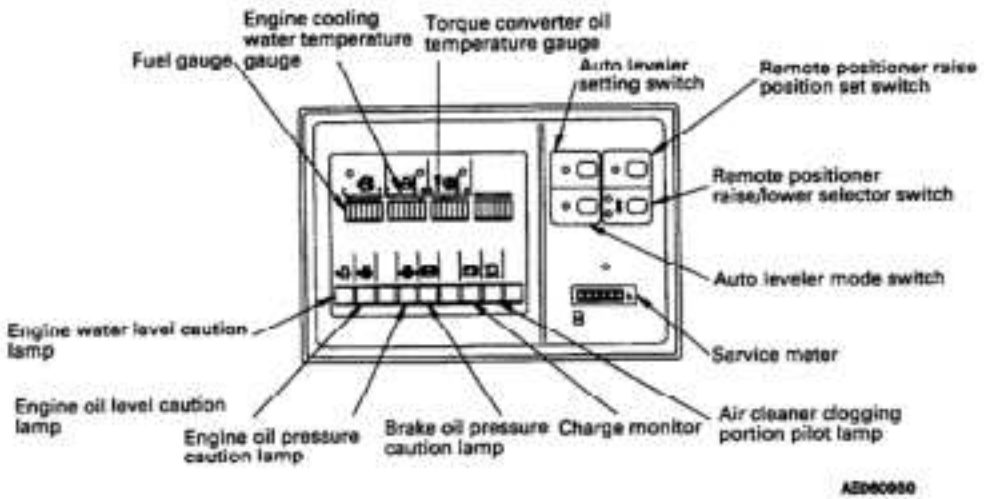
10.2 GENERAL VIEW OF CONTROLS AND GAUGES



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

WA450-3

			SMALLER SIZE TIRE	LARGER SIZE TIRE
			23.5-25(L3)	26.5-25 L3)
PERFORMANCE				
• Bucket capacity			4.2 m³ (5.4 cu.yd)	
• Normal load			6720 kg (14820 lb)	
• Travel speed	FORWARD	1st	6.2 km/h (3.9 mph)	6.6 km/h (4.1 mph)
		2nd	11.2 km/h (7.0 mph)	12.3 km/h (7.6 mph)
		3rd	19.8 km/h (12.3 mph)	21.8 km/h (13.5 mph)
		4th	31.5 km/h (19.6 mph)	34.0 km/h (21.1 mph)
	REVERSE	1st	6.4 km/h (4.0 mph)	6.8 km/h (4.2 mph)
		2nd	11.7 km/h (7.3 mph)	12.8 km/h (7.9 mph)
		3rd	20.7 km/h (12.9 mph)	22.7 km/h (14.1 mph)
		4th	32.7 km/h (20.3 mph)	36.0 km/h (22.4 mph)
• Max. rimpull			20800 kg (203980 N)	19270 kg (188970 N)
• Min. turning radius	Outside of chassis		6845 mm (22 ft 5 in)	
	Center of outside tire		5820 mm (19 ft 1 in)	
• **WEIGHT**				
• Operating weight (includes full fuel tank, ROPS cab, front fenders and optional counterweight			20915 kg (48315 lb)	22385 kg (49350 lb)
• **ENGINE**				
• Model			Cummins M11	
• Net horsepower @ 2100 RPM			197 kW (264 hp)	
• Max. torque (gross) @ 1300 RPM			1329 N•m (980 lbf ft)	
• Starting motor			24V 7.5 kW	
• Alternator			24V 50A	
• Battery (quantity 2)			12V 170 Ah	

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