CEAM023104

Operation & Maintenance Manual

WA430-6

WHEEL LOADER

SERIAL NUMBERS WA430-6 A42001 and up

ENGINE 6D114E-3

April 2016

KOMATSU®

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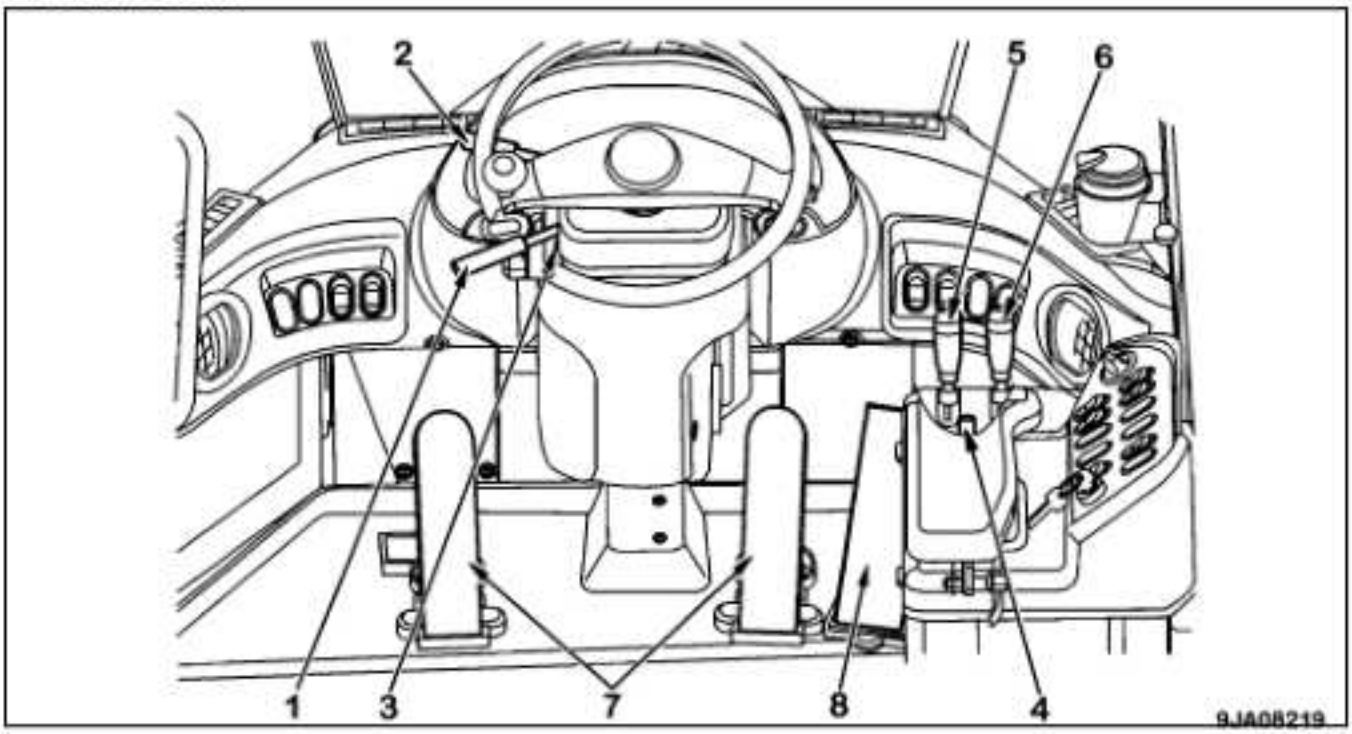
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CONTROL LEVERS, PEDALS

General View



1. Gearshift lever
2. Directional lever
3. Gearshift lever stopper
4. Work equipment lock lever
5. Bucket control lever
6. Lift arm control lever
7. Brake pedals
8. Accelerator pedal

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Every 1000 Hours Service

★ Maintenance for every 50, 100, 250, and 500 hours service should be performed at the same time.

Replace Fuel Main Filter Cartridge (Standard Specification)

⚠ WARNING

- **After the engine has been operated, all parts are very hot. Do not replace the filter immediately. Wait for all parts to cool down before starting the operation.**
- **High pressure is generated inside the engine fuel piping system when the engine is running. When replacing the filter, wait for at least 30 seconds after stopping the engine to let the internal pressure go down, before replacing the filter.**
- **Do not bring any fire or flame close.**

Remark

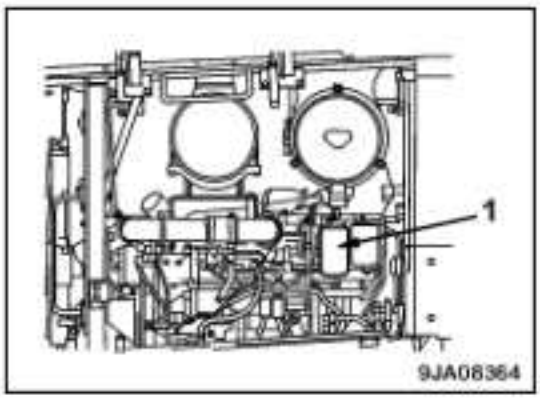
Genuine Komatsu fuel filter cartridges use a special filter that has a highly efficient filtering ability. When replacing the filter cartridge, always use a genuine Komatsu part.

The common rail fuel injection system used on this machine consists of more precise parts than the conventional injection pump and nozzle.

If any part other than a genuine Komatsu filter cartridge is used, dust or dirt may get in and cause problems with the injection system. Never use substitute parts.

When carrying out inspection or maintenance of the fuel system, pay more attention than normal to the entry of dirt. If dirt is stuck to any part, use fuel to wash it off completely.

★ If it is necessary to replace the fuel prefilter cartridge, see "Replace Fuel Prefilter Cartridge" on page 3-69.



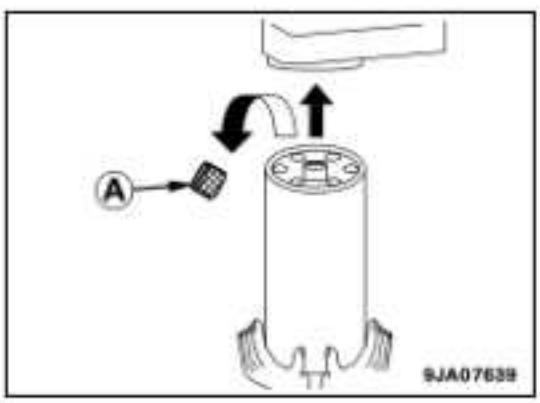
Required

- Container to catch oil
- Filter wrench

1. Stop the engine.
2. Open the engine side cover on the right side of the chassis.
3. Set the container to catch the fuel under the filter cartridge.
4. Using a filter wrench, turn filter cartridge (1) counterclockwise to remove it.
5. Clean the filter holder.
6. Check that cap (A) is installed on the new filter cartridge.

Remark

Cap (A) prevents dirt from getting into the filter cartridge



7. Coat the packing surface of the new filter cartridge with oil.
   ★ Do not fill the fuel main filter cartridge with fuel.
8. Remove filter cartridge cap (A) and discard it.

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SPECIFICATIONS

	Item			Unit	WA430-6 standard specification machine (when using POWER mode)
	Machine weight (with bolt on cutting edge)			kg (lb)	18,290 (40,323)
	Normal load			kg (lb)	5,600 (12,346)
	Bucket capacity	Heaped		m^3 (yd^3)	3.5 (4.6)
	Engine model			-	Komatsu SAA6D114E-3 diesel engine
	Flywheel horsepower			kW(HP)/rpm	172 (231)/2,100
A	Overall length			mm (ft in)	8,305 (27 ft 3 in)
B	Overall height			mm (ft in)	3,390 (11 ft 1 in)
C	Max. dimension when shaking bucket			mm (ft in)	5,710 (18 ft 9 in)
D	Overall width			mm (ft in)	2,820 (9 ft 3 in)
E	Min. ground clearance			mm (ft in)	455 (1 ft 6 in)
F	Bucket width			mm (ft in)	3,050 (10 ft 0 in)
G	Dumping clearance (*1)	Cutting edge [BOC tip]		mm (ft in)	3,105 (10 ft 2 in) [3,020 (9 ft 11 in)]
H	Dumping reach (*1)	Cutting edge [BOC tip]		mm (ft in)	1,150 (3 ft 9 in) [1,190 (4 ft 11 in)]
I	Bucket dump angle (max. height)			degrees	49
	Min. turning radius	Outside of chassis		mm (ft in)	7,230 (23 ft 9 in)[7,335 (24 ft 1 in)]
		Center of outside tire		mm (ft in)	6,335 (20 ft 9 in)
	Permissible towing load			kN {kg} {lb}	116 {11,800} {26,015}
	Travel speed	Forward	1st	km/h (mph)	7.0 (4.3)
			2nd	km/h (mph)	12.3 (7.6)
			3rd	km/h (mph)	21.6 (13.4)
			4th	km/h (mph)	37.2 (23.1)
		Reverse	1st	km/h (mph)	7.6 (4.7)
			2nd	km/h (mph)	12.9 (8.0)
			3rd	km/h (mph)	23.0 (14.3)
			4th	km/h (mph)	37.2 (23.1)

*1: Indicates the value at the 45° bucket dump angle.

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