Operation & Maintenance Manual

VEAM420100

WA150PZ-5

WHEEL LOADER

SERIAL NUMBERS H50051 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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4.4.2 Proper selection of fuel, coolant and lubricants

WA150PZ-5	LUBRICANTS, FUELS AND FILLING CAPACITIES					
	Lubricant and operating medium	Short code / cask lettering	Quality grade	Temperature range	Viscosity range	Filling capacity in litres
Engine	Engine oil	EO 0030A EO 0540A EO 10 EO 30 EO 1030A EO 1540A	CCMC D4 or, if not available: API CD or API CE or API CF -4	-30° up to 40° C -25° up to 40° C -20° up to 10° C 0° up to 40° C -20° up to 40° C - 15° up to 50° C	SAE 0W-30 SAE 5W-40 SAE 10 SAE 30 SAE 10W-30 SAE 15W-40 *)	14 (12.5 **)
Transfer case	Engine oil	EO 10	CCMC D4 or, if not available: API CD or API CE or API CF -4	-30° up to 40° C	SAE 10W*)	4.9 (4.4 **)
Hydraulic system	Hydraulic oil	HYD 0530 HYD 1030	HVLP, HVLP D	-30° up to 40° C -20° up to 30° C	ISO VG46 *) ISO VG68	104 (47**)
Axle with standard differential	Axle oil	AXO 80 (*2) AXO	Shell: DONAX TD5W30 ***		80W SAE 5W-30 *)	front 14 rear 14.5
	or Engine oil	EO 30	CCMC D4 or, if not available: API CD or API CE or API CF -4	0° up to 40° C	SAE 30	
Axle with limited-slip differential (*3)	Axle oil (*4)	AXO	Shell: DONAX TD 5W-30*** Esso: TORQUE FLUID56**** Mobil: MOBILFLUID 424 Fuchs: TITAN HYDRA ZF 20W-40		SAE 5W-30 *) SAE 20W-40	
Fuel tank	Diesel fuel	ASTM D975 No.1 ASTM D975 No.2 DIN-EN 590	CFPP class B CFPP class D CFPP class F	-30° up to -10° C -10° up to 40° C 0° up to 40° C -10° up to 40° C - 20° up to 40° C	–	133
Grease nippels	Multi purpose grease on a lithium base	MPG-A	KP2N-20	-30° up to 40° C	NLGI-No. 2	–
Grease box of central lubrication unit	Multi purpose grease on a lithium base	MPG-A	KP2N-20	-30° up to 40° C	NLGI-No. 2	–
Cooling system	Water and coolant	SP-C	Add antifreeze with corrosion resistor			17
Air conditioner	Coolant	NRS	R134a (CFC-free)			860 g

* Work filling
** Top-up quantity
*** North American manufacted DONAX TD 20W-40 must not be used.
**** North American manufacted TORQUE FLUID 56 must not be used.

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Replace element in air conditioner recirculation air filter, fresh air filter

Remove both the recircuration air filter and fresh air filter in the same way as when cleaning, and replace them with new parts.

For details of cleaning the recircuration air filter, see "Clean element in air conditioner recirculation filter (4-48)".

For details of cleaning the fresh air filter, see "Clean element in air conditioner fresh air filter (4-41)".

Check alternator, starting motor

The brush may be worn or have no grease on the bearing, so contact your KOMATSU distributor for inspection or repair.

If the engine is started frequently, carry out inspection every 1000 hours.

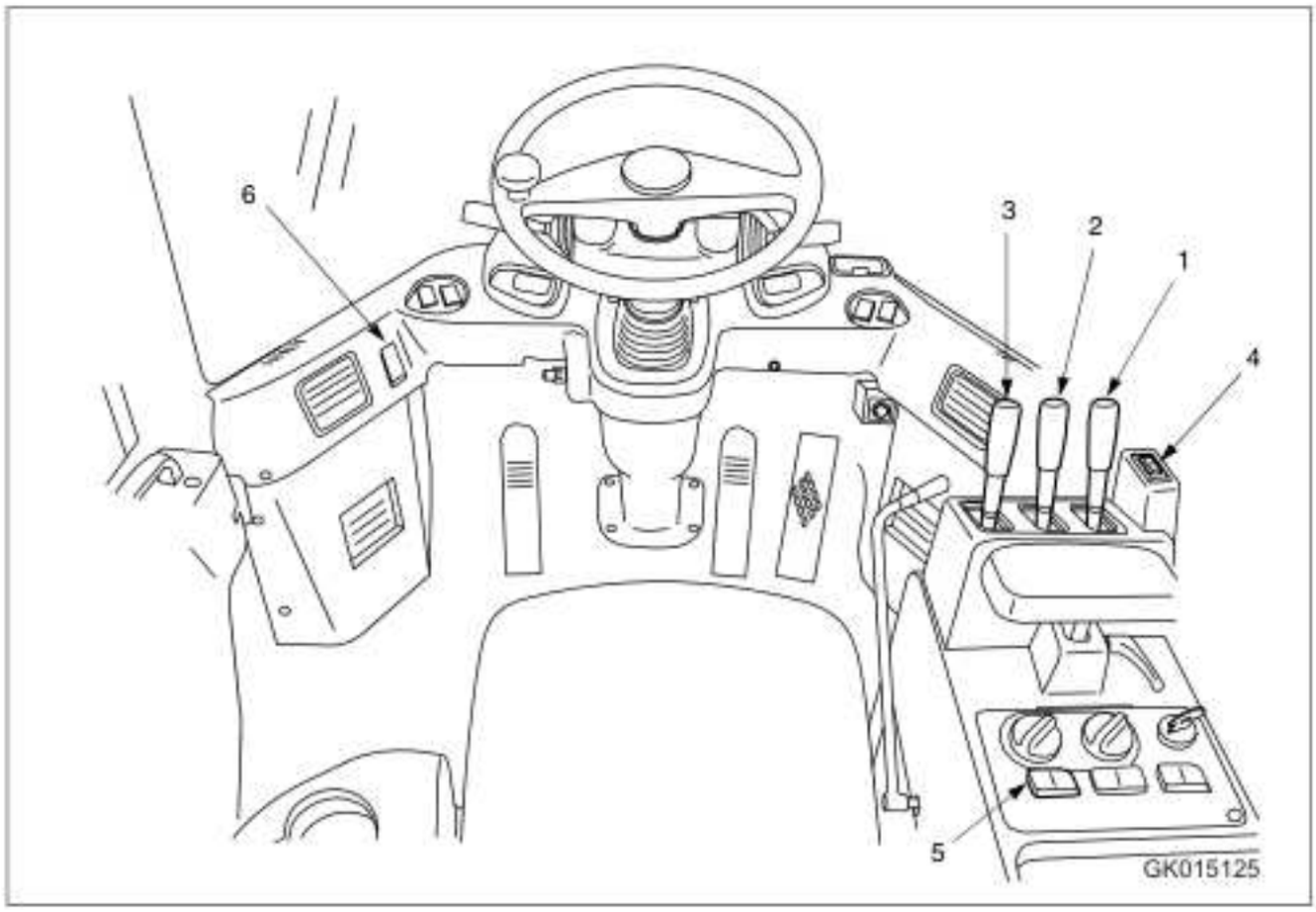
Check engine valve clearance, adjust

As special tool is required for removing and adjusting the parts, request your KOMATSU distributor for service.

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6.4 Method of using 3 levers

6.4.1 Explanation of components



(1) Lift arm control lever	(4) Directional selector switch
(2) Bucket control lever	(5) Directional selector actuation switch
(3) Auxiliary control lever	(6) Switch for quick coupler (option)

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