TEN00534-07

Operation & Maintenance Manual

WHEEL LOADER **WA380-7**

SERIAL NUMBERS 10001 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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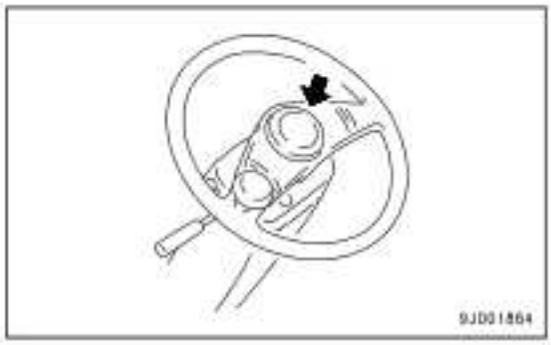
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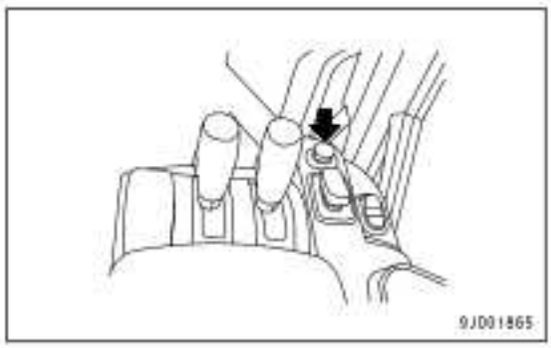
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HORN SWITCH (WA500-Q543-043-K-00-A)

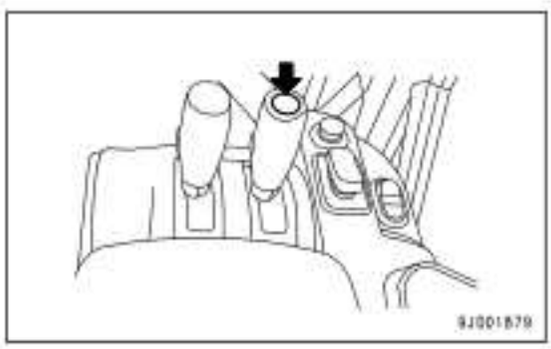
When switch (4) is pressed, the horn sounds.





KICKDOWN SWITCH (WA380-CP22-043-K-00-A)

When the gear shift lever is in the F2 position, if this switch (5) at the top of the boom control lever is pressed, the gear speed is shifted down to F1.
Use this switch to increase the traction force during excavation.
When the transmission shift range (actual gear speed) is F1 and the power mode selector switch is in the E mode, if switch (5) is pressed, the power mode changes to the P mode.
Use this switch to increase the traction force further during excavation or for scrape-up work.



In E mode

2nd E mode	→	1st E mode	→	1st P mode

In P mode

2nd P mode	→	1st P mode

When the transmission is in the auto-shift mode and the travel speed is 10.5 km/h (6.5 MPH) or slower, the kickdown switch operates and the gear speed can be shifted down to the 1st speed from any gear speed of the forward or reverse travel.
With this function, the load-and-carry operation is easy.

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OUTLINE OF MAINTENANCE (WA-RA1B-2A4-K-00-A)

- Komatsu recommends using Komatsu genuine parts for replacement parts, grease or oil.
- When changing the oil or adding oil, do not mix different types of oil. When changing the type of oil, drain all the old oil and fill completely with the new oil. Always replace the filter at the same time. (There is no problem if the small amount of oil remaining in the piping mixes with the new oil.)
- Unless otherwise specified, when the machine is shipped from the factory, it is filled with the oil and coolant listed in the table below.

Item	Type
Engine oil pan	Engine oil EO15W40-LA (Komatsu genuine)
Transmission case	Power train oil TO10 (Komatsu genuine)
Hydraulic tank	Power train oil TO10 (Komatsu genuine)
Axle	Axle oil AXO80 (Komatsu genuine)
Radiator	Non-Amine Engine Coolant (AF-NAC) (Komatsu genuine) (density: 30% or above)

HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC (PC-RA1B-001-K-00-A)

OIL (PC-C940-2A4-P-00-A)

- Oil is used in the engine and hydraulic equipment under extremely severe conditions (high temperature, high pressure), and deteriorates with use.
  Always use oil that matches the grade and maximum and minimum ambient temperatures recommended in the Operation and Maintenance Manual.
  Even if the oil is not dirty, always change the oil at the specified interval.
- Oil corresponds to blood in the human body, always be careful when handling it to prevent any impurities (water, metal particles, dirt, etc.) from getting in.
  The majority of failures with the machine are caused by the entry of such impurities.
  Take particular care not to let any impurities get in when storing or adding oil.
- Never mix oils of different grades or brands.
- Always add the specified amount of oil.
  Having too much oil or too little oil are both causes of failures.
- If the oil in the work equipment is not clear, there is probably water or air getting into the circuit. In such cases, consult your Komatsu distributor.
- When changing the oil, always replace the related filters at the same time.
- We recommend you have an oil analysis periodically to check the condition of the machine. For those who wish to use this service, consult your Komatsu distributor.
- When using commercially available oil, it may be necessary to reduce the oil change interval. We recommend that you use the Komatsu oil clinic to check the characteristics of the oil in detail.

NOTICE

Komatsu recommends using Komatsu genuine engine oil for KDPF. If engine oil other than Komatsu genuine oil for KDPF is used, it may shorten cleaning interval of KDPF filters, adversely affect the engine such as deteriorated oil may reduce lubricating function, and it may cause failure, shortening of the machine life, lowering of performance and increase of fuel consumption.

FUEL (PC-AD02-2A4-K-00-A)

- To prevent the moisture in the air from condensing and forming water inside the fuel tank, always fill the fuel tank after completing the day's work.
- The fuel pump is a precision instrument, and if fuel containing water or dirt is used, it cannot work properly.
- Be extremely careful not to let impurities get in when storing or adding fuel.
- Always use the fuel specified for the temperature that is described in the Operation and Maintenance Manual.
  - If the fuel is used at the temperatures lower than the specified temperature (particularly at temperatures below -15°C (5°F), the fuel will solidify.
  - If the fuel is used at temperatures higher than the specified temperature, the viscosity will drop, and it may result in troubles such as a drop of output.
- Before starting the engine, or after 10 minutes of adding fuel, drain the sediment and water from the fuel tank.
- If the engine runs out of fuel, or if the filters are replaced, it is necessary to bleed the air from the circuit.

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SPECIFICATIONS (WA380-2110-930-A-00-A)

	Item			Unit	WA380-7 (in POWER mode)
	Machine weight (with bolt on cutting edge (BOC))			kg (lb)	17,750 (39,139)
	Normal load			kg (lb)	5,280 (11,642)
	Bucket capacity	Heaped		m^3 (cu.yd)	3.3 (4.3)
	Engine model			-	Komatsu SAA6D107E-2
	Rated hosepower	SAE J1995 (Gross)		kW {HP} / min^{-1} {rpm}	143 {192} / 2,100 {2,100}
		ISO 9249 / SAE J1349 (Net)			142 {191} / 2,100 {2,100}
A	Overall length			mm (ft in)	8,140 (26' 8")
B	Overall height			mm (ft in)	3,390 (11' 1")
C	Overall height with bucket lifted up			mm (ft in)	5,600 (18' 4")
D	Overall width			mm (ft in)	2,780 (9' 1")
E	Min. ground clearance			mm (ft in)	455 (1' 6")
F	Bucket width			mm (ft in)	2,905 (9' 6")
G	Dumpling clearance (*1)	Cutting edge [BOC tip]		mm (ft in)	3,035 (9' 11") [2,950 (9' 8")]
H	Dumpling reach (*1)	Cutting edge [BOC tip]		mm (ft in)	1,105 (3' 8") [1,150 (3' 9")]
I	Bucket dump angle (at max. height)			deg.	50
	Min. turning radius	Cutting edge [BOC tip]		mm (ft in)	7,220 (23' 8")
		Center of outside tire		mm (ft in)	6,320 (20' 9")
	Allowable towing load			kN {kg}	115 {11,700}
	Travel speed [At lockup]	Forward	1st	km/h (MPH)	6.6 (4.1) [-]
			2nd	km/h (MPH)	11.7 (7.3) [12.4 (7.7)]
			3rd	km/h (MPH)	20.9 (13.0) [22.5 (14.0)]
			4th	km/h (MPH)	36.1 (22.4) [40.0 (24.8)]
		Reverse	1st	km/h (MPH)	7.1 (4.4) [-]
			2nd	km/h (MPH)	12.4 (7.7) [13.3 (8.3)]
			3rd	km/h (MPH)	22.3 (13.9) [24.1 (15.0)]
			4th	km/h (MPH)	38.6 (24.0) [40.0 (24.8)]

*1: Indicates the value when the bucket dump angle is 45 degrees.

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