TEN00089-03

Operation & Maintenance Manual

WHEEL LOADER **WA380-5**

SERIAL NUMBERS 60001 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.

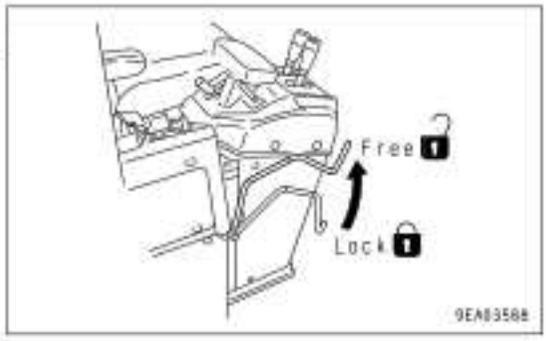
KOMATSU®

MidWestTech | Komatsu WA380-5 Wheel Loader Operation & Maintenance Manual | Publi... Order the manual at mid-west-tech.com >

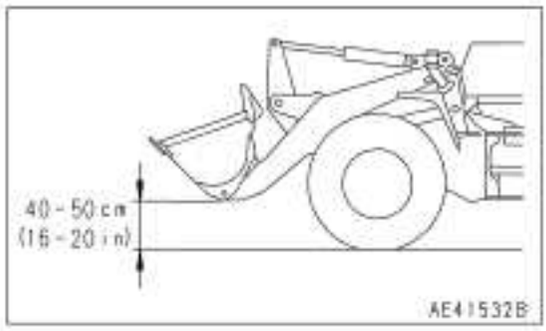
STARTING ENGINE ---- 3-106
OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3-110
STOPPING ENGINE ---- 3-112
MOVING THE MACHINE (DIRECTIONAL, SPEED), STOPPING THE MACHINE ---- 3-113
TURNING ---- 3-123
OPERATION OF WORK EQUIPMENT ---- 3-125
WORK POSSIBLE USING WHEEL LOADER ---- 3-127
PRECAUTIONS FOR OPERATION ---- 3-133
ADJUSTING WORK EQUIPMENT POSTURE ---- 3-135
PARKING MACHINE ---- 3-137
CHECKS AFTER COMPLETION OF OPERATION ---- 3-139
LOCKING ---- 3-139
HANDLING THE TIRES ---- 3-140
TRANSPORTATION ---- 3-142
TRANSPORTATION PROCEDURE ---- 3-142
LOADING, UNLOADING WORK WITH TRAILERS ---- 3-142
LIFTING MACHINE ---- 3-146
COLD WEATHER OPERATION ---- 3-148
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-148
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-149
AFTER COLD WEATHER ---- 3-149
WARMING-UP OPERATION FOR STEERING HYDRAULIC CIRCUIT IN COLD WEATHER ---- 3-150
LONG-TERM STORAGE ---- 3-151
BEFORE STORAGE ---- 3-151
DURING STORAGE ---- 3-151
AFTER STORAGE ---- 3-151
TROUBLESHOOTING ---- 3-152
WHEN MACHINE RUNS OUT OF FUEL ---- 3-152
METHOD OF TOWING MACHINE ---- 3-153
IF BATTERY IS DISCHARGED ---- 3-158
OTHER TROUBLE ---- 3-161
MAINTENANCE ---- 4- 1
GUIDES TO MAINTENANCE ---- 4- 2
OUTLINES OF SERVICE ---- 4- 4
HANDLING OIL, FUEL, COOLANT, AND PERFORMING OIL CLINIC ---- 4- 4
OUTLINE OF ELECTRIC SYSTEM ---- 4- 7
WEAR PARTS ---- 4- 8
WEAR PARTS LIST ---- 4- 8
RECOMMENDED FUEL, COOLANT, AND LUBRICANT ---- 4- 9
USE OF FUEL, COOLANT AND LUBRICANTS ACCORDING TO AMBIENT TEMPERATURE ---- 4- 10
RECOMMENDED BRANDS, RECOMMENDED QUALITY FOR PRODUCTS OTHER THAN KOMATSU GENUINE OIL ---- 4- 11
STANDARD TIGHTENING TORQUES FOR BOLTS AND NUTS ---- 4- 12
TORQUE LIST ---- 4- 12
PERIODIC REPLACEMENT OF SAFETY CRITICAL PARTS ---- 4- 13
MAINTENANCE SCHEDULE CHART ---- 4- 14
MAINTENANCE SCHEDULE CHART ---- 4- 14
SERVICE PROCEDURE ---- 4- 16
INITIAL 250 HOURS SERVICE ---- 4- 16
INITIAL 1000 HOURS SERVICE ---- 4- 16

MidWestTech | Komatsu WA380-5 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

2. Check that the bucket control lever (2) and lift arm control lever (3) is at the HOLD position, then set the work equipment lock lever (4) to the FREE position.



3. Operate lift arm control lever (3) to set the work equipment to the travel posture shown in the diagram on the right.

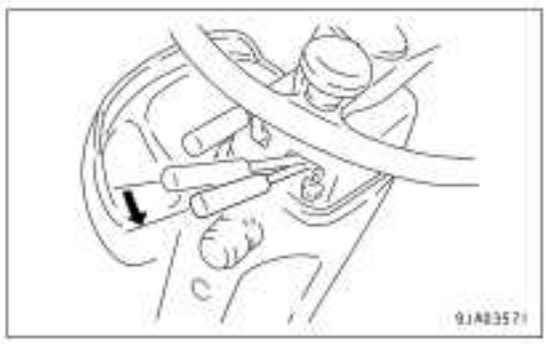


4. Depress right brake pedal (5) and turn parking brake switch (6) to the OFF (RELEASE) position to release the parking brake. Keep right brake pedal (5) depressed.

REMARK
If the parking brake is still actuated when parking brake switch (6) is at the OFF (RELEASE) position, turn the parking brake switch ON, then turn it OFF again.

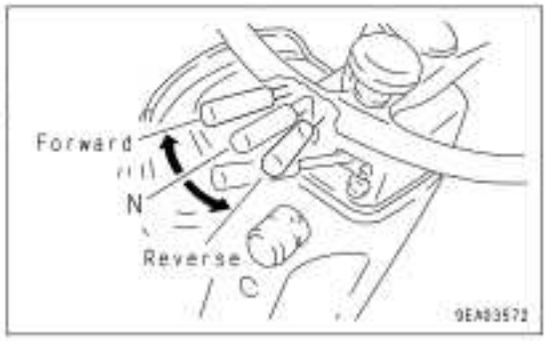


5. Set gearshift lever (7) to the desired position.



6. Set directional lever (8) to the desired position.

   - Check that the backup alarm sounds when the directional lever is set to REVERSE. If the backup alarm does not sound, please contact your Komatsu distributor for repairs.



MidWestTech | Komatsu WA380-5 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

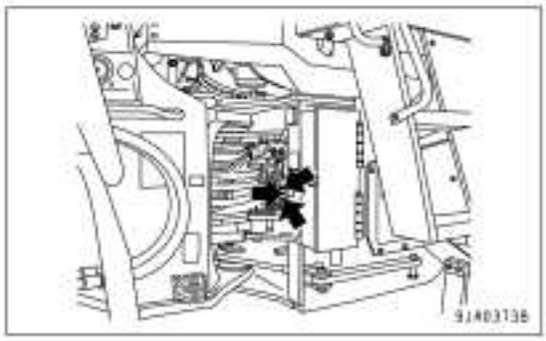
EVERY 100 HOURS SERVICE

Maintenance for every 50 hours service should be carried out at the same time.

LUBRICATE REAR AXLE PIVOT PIN

(3 places)

1. Using a grease pump, pump in grease through the grease fittings marked by the arrows.
2. After greasing, wipe off any old grease that was pushed out.

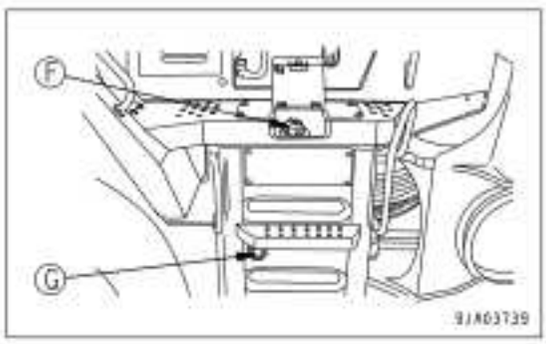


CHECK OIL LEVEL IN HYDRAULIC TANK, ADD OIL

⚠ WARNING

- **The parts and oil are at high temperature immediately after the engine is stopped, and may cause burns. Wait for the temperature to go down before starting the work.**
- **When removing the oil filler cap, turn it slowly to release the internal pressure, then remove it.**

1. Lower the bucket horizontally to the ground and stop the engine. Wait for 5 minutes, then check sight gauge (G). The oil level should be between the H and L marks.



NOTICE

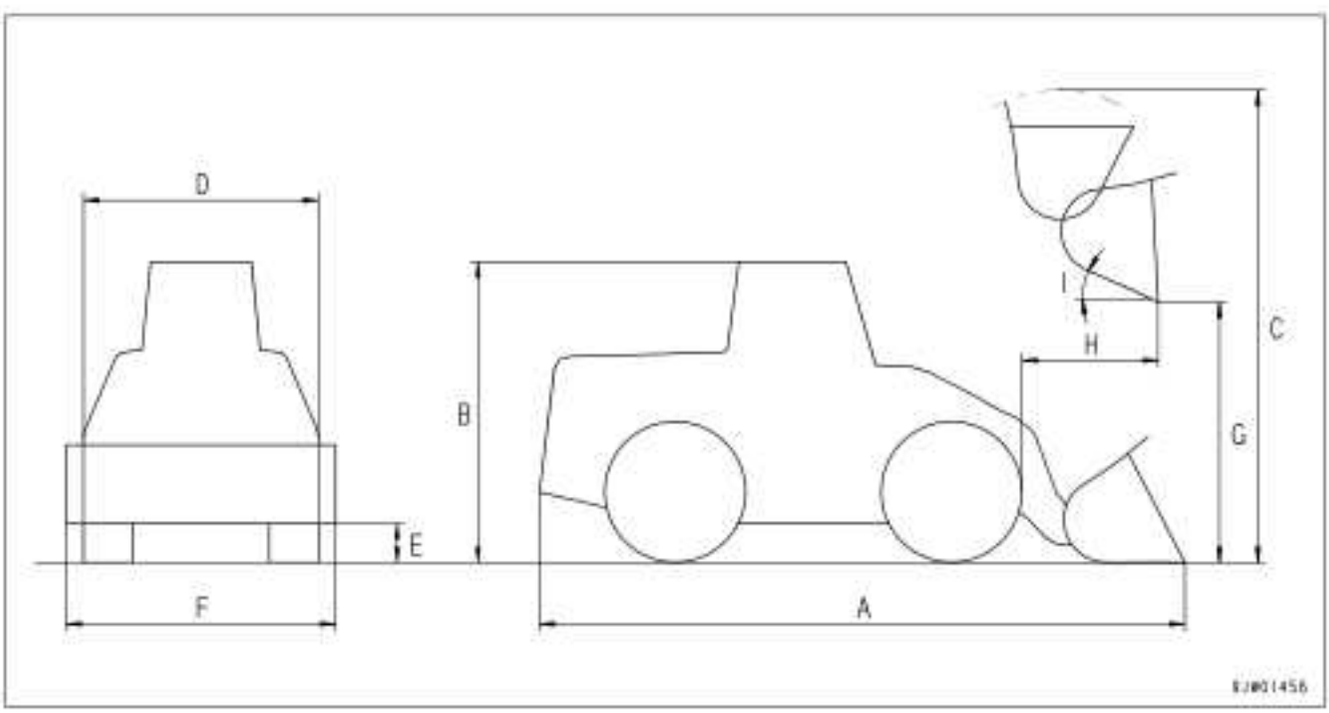
If the oil has been added to above H level, stop the engine and wait for the hydraulic oil to cool down, then drain the excess oil from the drain plug. If the oil is above H level, it will damage the hydraulic circuit or cause the oil to spurt out.

2. If the oil is below the L level, open the inspection cover above the step and add oil through oil filler port (F).

MidWestTech | Komatsu WA380-5 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

SPECIFICATIONS

	Item			Unit	WA380-5 standard specification machine (when using POWER mode)
	Operating weight (including 1 operator: 75 kg (165 lb) (With bolt on cutting edge)			kg (lb)	16,230 (35787)
	Normal load			kg (lb)	5,280 (11642)
	Bucket capacity	Heaped		m^3 (cu.yd)	3.3 (4.3)
	Engine model			-	Komatsu SAA6D114E-2 diesel engine
	Flywheel horsepower			kW (HP)/rpm	140 (187)/2,000
A	Overall length			mm (ft in)	8,235 (27')
B	Overall height			mm (ft in)	3,315 (10' 11")
C	Max. dimension when shaking bucket			mm (ft in)	5,565 (18' 3")
D	Overall width			mm (ft in)	2,695 (8' 10")
E	Min. ground clearance			mm (ft in)	390 (1' 3")
F	Bucket width			mm (ft in)	2,905 (9' 6")
G	Clearance	Cutting edge [BOC tip]		mm (ft in)	2,885 (9' 6") [2,800 (9' 2")]
H	Reach	Cutting edge [BOC tip]		mm (ft in)	1,165 (3' 10") [1,210 (4')]
I	Dump angle			degrees	45
	Min. turning radius	Out of chassis		mm (ft in)	6,540 (21' 5") [6,580 (21' 7")]
		Center of outside tire		mm (ft in)	5,620 (18' 5")
	Permissible towing load			kg(N)	12,180(119,440)
	Travel speed	Forward	1st	km/h (MPH)	6.3 (3.9)
			2nd	km/h (MPH)	11.4 (7.1)
			3rd	km/h (MPH)	20.2 (12.6)
			4th	km/h (MPH)	31.5 (19.6)
		Reverse	1st	km/h (MPH)	6.7 (4.2)
			2nd	km/h (MPH)	11.8 (7.3)
			3rd	km/h (MPH)	21.0 (13.0)
			4th	km/h (MPH)	32.5 (20.2)



MidWestTech | Komatsu WA380-5 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >