Operation & Maintenance Manual

SEAM04230103

WA350-1, WA400-1, WA450-1
WHEEL LOADER

SERIAL NUMBERS	WA350	:10001	and up
	WA400	:10001	
	WA450	:10001	

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 WA350-1, WA400-1, WA450-1 Wheel Loader Operation & Mainten... Order the manual at mid-west-tech.com >

CONTENTS

OPERATION

SAFETY HINTS 4
GENERAL LOCATIONS 11
INSTRUMENTS AND CONTROLS 14
OPERATING THE AIR CONDITIONER 44
OPERATING THE CAR HEATER 47
CHECK BEFORE STARTING 49
OPERATING YOUR MACHINE 54
ADJUSTMENT OF WORK EQUIPMENT 63
USING ACCUMULATORS 65
HANDLING THE TIRES 66
TOWING 69
TRANSPORTATION 71
HANDLING OF BATTERY 72
COLD WEATHER OPERATION 75

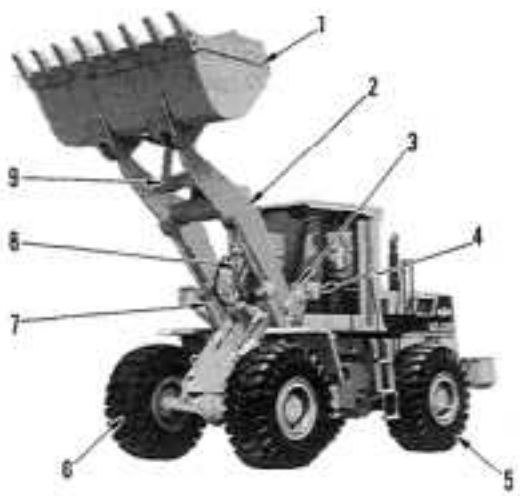
MAINTENANCE

PERIODIC MAINTENANCE 79
PRECAUTIONS FOR MAINTENANCE 80
BLEEDING AIR FROM CIRCUIT 84
MAINTENANCE TABLE 85
OIL FILLER AND LEVEL GAUGE POSITIONS 89
EVERY 50 HOURS SERVICE 90
EVERY 100 HOURS SERVICE 91
INITIAL 250 HOURS SERVICE 93
EVERY 250 HOURS SERVICE 93
EVERY 500 HOURS SERVICE 100
EVERY 1000 HOURS SERVICE 104
EVERY 2000 HOURS SERVICE 110
EVERY 4000 HOURS SERVICE 116
WHEN REQUIRED 117
ADJUSTMENT 131
TROUBLE SHOOTING GUIDE 134
STORAGE 138
SERVICE METER 140
MACHINE AND ENGINE SERIAL NUMBERS 141
FUEL, COOLANT AND LUBRICANTS 142

MidWestTech | Komatsu WA350-1, WA400-1, WA450-1 Wheel Loader Operation & Maintena... Order the manual at mid-west-tech.com >

WA400-1

1. Bucket
2. Lift arm
3. Head lamp
4. Turn signal lamp
5. Rear wheel
6. Front wheel
7. Lift cylinder
8. Dump cylinder
9. Tilt lever



With cab and ROPS canopy

PERFORMANCE

1. Bucket capacity (Heaped)	3.1 m^3
2. Travel speeds	
Forward	Max. 33.5 km/h (20.8 MPH)
Reverse	Max. 35.8 km/h (22.8 MPH)

OPERATING WEIGHT 17840 kg

ENGINE

1. Model	Komatsu SA6D110-1 diesel engine
2. Flywheel horsepower (at 2200 rpm)	197 HP

NOTE: Specifications are subject to change without notice.

MidWestTech | Komatsu WA350-1, WA400-1, WA450-1 Wheel Loader Operation & Maintenan... Order the manual at mid-west-tech.com >

SWITCHES

1. TRANSMISSION CUT-OFF SELECTOR SWITCH



This switch selects the operation of the left brake pedal. Normally, put this switch in ON position.

① OFF:

Acts as normal brake (like right brake pedal).

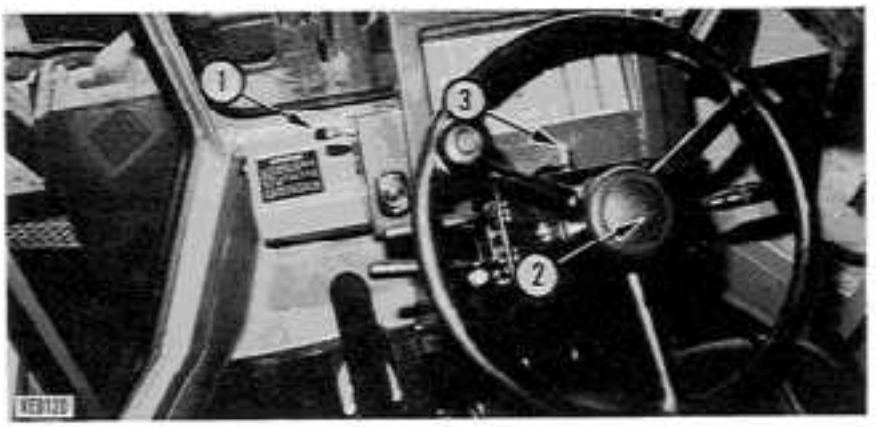
② ON:

Acts as normal brake, but also switches transmission to NEUTRAL.

★ If the switch is at ON, the transmission cut-off selector pilot lamp will light up.

⚠ **If the machine has to be started on a slope, always turn the transmission cut-off selector switch to OFF and depress the left brake pedal. Then depress the accelerator pedal while releasing the left brake pedal to start the machine off slowly.**

★ Put the switch to the desired position according to working condition to make operation easy.



2. HORN BUTTON



When the button in the center of the steering wheel is pressed, the horn will sound.

MidWestTech | Komatsu WA350-1, WA400-1, WA450-1 Wheel Loader Operation & Maintena... Order the manual at mid-west-tech.com >

INITIAL 250 HOURS SERVICE

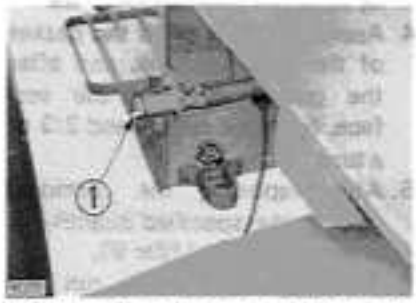
Perform the following maintenance after running the machine for the first 250 hours.

a. FUEL FILTER
b. TRANSMISSION OIL FILTER
c. ENGINE VALVE CLEARANCE

For details of the method of replacing or maintaining, see the section on EVERY 500 HOURS AND 2000 HOURS SERVICE.

EVERY 250 HOURS SERVICE

a. ENGINE OIL PAN AND FILTER



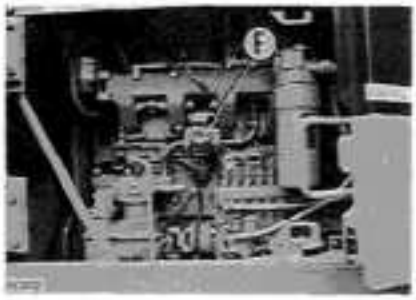
1. Open the engine hood and apply the hood lock at the side of the radiator. (WA350, 400)
   Open the engine side cover located on the right of engine hood. (WA450)
2. Open oil filler (F) and remove drain plug (1) to drain oil. After draining, tighten the drain plug.

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

(For WA350, 400)



(For WA450)



MidWestTech | Komatsu WA350-1, WA400-1, WA450-1 Wheel Loader Operation & Maintenan... Order the manual at mid-west-tech.com >