CEAMW25010

OPERATION & MAINTENANCE MANUAL

KOMATSU

WA500-1L

WHEEL LOADER

SERIAL NUMBERS
WA500-1L A20854 and up

SEP 93

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CONTENTS

DESCRIPTION **PAGE**

FORWARD 0-1
SAFETY INFORMATION 0-2
INTRODUCTION 0-3
BREAKING IN THE NEW MACHINE 0-3
MACHINE AND ENGINE SERIAL NUMBERS 0-4
QUICK REFERENCE INFORMATION 0-5

SAFETY PRECAUTIONS -- SECTION 1

GENERAL PRECAUTIONS 1-2
PERSONNEL PRECAUTIONS 1-2
MACHINE PRECAUTIONS 1-2

OPERATION 1-3
BEFORE STARTING 1-3
START-UP 1-4
GENERAL OPERATING PRECAUTIONS 1-4
DRIVING THE MACHINE 1-5
OPERATING THE ATTACHMENTS 1-6
PULLING/TOWING 1-6
SHUTDOWN 1-7

MAINTENANCE 1-7
GENERAL MACHINE PRECAUTIONS 1-7
GENERAL WORK PRECAUTIONS 1-8
ACCUMULATORS 1-9
ATTACHMENTS 1-10
BRAKES 1-10
CAB/ROPS 1-10
COOLING 1-10
ELECTRICAL 1-10
ENGINE 1-11
FUEL SYSTEM 1-12
HYDRAULICS 1-12
TIRES AND RIMS 1-12
TURBOCHARGER 1-12

SAFETY PRODUCT GRAPHICS AND LOCATIONS 1-14

OPERATION -- SECTION 2

GENERAL VIEW 2-2

INSTRUMENTS AND CONTROLS 2-3
MONITOR PANEL 2-3
SYSTEM CHECK 2-4
CHECK MONITOR LAMP GROUP 2-5
Brake Oil Level Monitor 2-5
Engine Oil Level Monitor 2-6
Engine Coolant Level Monitor 2-6
CAUTION MONITOR LAMP GROUP 2-6
Charge Monitor 2-6
Fuel Level Monitor 2-7
Transmission Oil Filter Monitor 2-7
CAUTION MONITOR LAMP GROUP 2-7

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Brake Line Failure Monitor 2-7
Engine Oil Pressure Monitor 2-8
Engine Coolant Level Monitor 2-8
Air Pressure Monitor 2-8
Engine Coolant Temperature Monitor 2-8
Torque Converter Oil Temperature Monitor 2-9
Ground Driven Steering Operation Monitor - If Equipped 2-9
METER AND PILOT LAMP GROUP 2-10
Parking Brake Pilot Lamp 2-10
Working Lamp Pilot Lamp 2-11
Engine pre-heating pilot lamp 2-11
Transmission Cut-Off Selector Pilot Lamp 2-11
Air Pressure Gauge 2-12
Engine Coolant Temperature Gauge 2-12
Torque Converter Oil Temperature Gauge 2-12
Fuel Level Gauge 2-13
Turn Signal Pilot Lamp 2-13
High Beam Pilot Lamp 2-13
Speedometer 2-14
Service Meter 2-14
SWITCHES 2-15
TRANSMISSION CUT-OFF SELECTOR SWITCH 2-15
HORN BUTTON 2-15
HAZARD LAMP SWITCH 2-16
PARKING BRAKE SWITCH 2-16
WORKING LAMP SWITCH 2-17
PRE-HEATING SWITCH 2-17
STARTING SWITCH 2-17
LAMP SWITCHES 2-18
Lamp switch 2-18
Turn signal lever 2-18
Dimmer switch 2-18
CIGARETTE LIGHTER 2-19
TRANSMISSION KICKDOWN SWITCH 2-19
FRONT WIPER SWITCH 2-20
REAR WIPER SWITCH 2-20
CAB DOME LAMP SWITCH 2-21
LEVERS AND PEDALS 2-22
DIRECTIONAL LEVER 2-22
SPEED CONTROL LEVER 2-23
SPEED CONTROL LEVER STOPPER 2-23
STEERING COLUMN TILT LEVER 2-23
ACCELERATOR PEDAL 2-24
BRAKE PEDALS 2-24
Right brake pedal 2-24
Left brake pedal 2-24
LIFT ARM CONTROL LEVER 2-25
BUCKET CONTROL LEVER 2-25
FRONT ATTACHMENT CONTROL LEVER - IF EQUIPPED 2-26
WORK EQUIPMENT CONTROL LEVER LOCK 2-26
CAB DOOR HOLD OPEN LOCK - IF EQUIPPED 2-26
AIR CLEANER SERVICE INDICATOR 2-26
FRAME LOCKING BAR 2-27
MAIN CIRCUIT BREAKER 2-27
FUSE BOXES 2-27
OPERATOR'S SEAT 2-30
FORWARD-BACKWARD ADJUSTMENT 2-30
SEAT ANGLE ADJUSTMENT 2-30
WEIGHT ADJUSTMENT 2-30
BACKREST TILT ADJUSTMENT 2-30
HEIGHT ADJUSTMENT 2-30

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CONTENTS

RIGHT SIDE ARMREST 2-30
HEIGHT ADJUSTMENT 2-30
ANGLE ADJUSTMENT 2-30
SEAT BELT 2-31

CAB HEATER AND DEFROSTER - IF EQUIPPED 2-32
CONTROL PANEL 2-32
FAN SPEED SWITCH 2-32
TEMPERATURE CONTROL LEVER 2-32
AIR INTAKE SELECTOR LEVER 2-32
METHOD OF OPERATION 2-33

CAB HEATER, DEFROSTER AND AIR CONDITIONER - IF EQUIPPED 2-34
CONTROL PANEL 2-34
FAN SPEED SWITCH 2-34
AIR CONDITIONER SWITCH 2-34
TEMPERATURE CONTROL LEVER 2-34
AIR INTAKE SELECTOR LEVER 2-34
METHOD OF OPERATION 2-35
PRECAUTIONS FOR USING AIR CONDITIONER 2-36
HANDLING AIR CONDITIONER IN SEASON 2-36
HANDLING AIR CONDITIONER IN OFF-SEASONS 2-36

LOCKING FILLER CAPS 2-37
FUEL TANK FILLER CAP 2-37
HYDRAULIC TANK FILLER CAP 2-38

CHECKS BEFORE STARTING ENGINE 2-39
WALK AROUND CHECK 2-39
CHECKS BEFORE STARTING 2-39

OPERATING MACHINE 2-40
OPERATIONS BEFORE STARTING ENGINE 2-40
STARTING ENGINE 2-42
NORMAL STARTING 2-42
SPECIAL STARTING 2-42
COLD WEATHER STARTING 2-43
OPERATIONS AFTER STARTING ENGINE 2-44
COLD WEATHER WARM-UP PROCEDURE 2-44
MOVING MACHINE OFF 2-45
SHIFTING GEAR 2-47
SHIFTING BETWEEN FORWARD AND REVERSE 2-48
STEERING MACHINE 2-48
STOPPING MACHINE 2-49
OPERATIONAL PRECAUTIONS 2-50
PERMISSIBLE WATER DEPTH 2-50
IF WHEEL BRAKES DO NOT WORK 2-50
WHEN TRAVELING UP OR DOWN SLOPES 2-50
Lower Center of Gravity When Turning 2-50
Braking on Downhill Slopes 2-50
If Engine Stops 2-50
POSSIBLE WORK USING LOADER 2-51
EXCAVATION 2-51
LEVELING 2-53
LOAD AND CARRY OPERATIONS 2-54
LOADING 2-54
Cross Drive Loading 2-54
V-Shape Loading 2-54
PARKING MACHINE 2-55
STOPPING ENGINE 2-56
OPERATIONS AFTER STOPPING ENGINE 2-56

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METHOD OF OPERATION

OPERATION OF CONTROL PANEL

PURPOSE		SWITCH AND LEVER POSITIONS		
		Fan Speed Switch	Temperature Control Lever	Air Intake Selector Lever
Heating	Quick	HI	Full to near right	Left
	Normal	HI - LO	Center to near right	Right
Defrosting		HI	Center to near right - Full right when carrying out quick defrosting or demisting	Right
Ventilation or Pressurizing		HI - LO	Full left	Right

AIR VENT SELECTION

PURPOSE	VENT POSITION		
	Face (1)	Foot (2)	Defroet (3)
Heating	Open or closed	Open	Open or closed
Defrosting	Closed	Open or closed	Open
Ventilation	Open	Open	Open

★ The effectiveness of the heating system can be increased by selecting the most suitable vent.

★ Do not turn the fan speed switch on when all the vents are closed.

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Approximate Freezing Point		Percentage of Antifreeze Concentration by Volume	Specific Gravity at 60°F (16°C)
+32°F	(0°C)	0	1.000
+20°F	(-7°C)	15	1.025
+10°F	(-12°C)	25	1.040
0°F	(-18°C)	33	1.053
-10°F	(-23°C)	40	1.062
-20°F	(-29°C)	45	1.070
-30°F	(-34°C)	48	1.074
-40°F	(-40°C)	53	1.080
-50°F	(-46°C)	56	1.083
-60°F	(-51°C)	59	1.088
-70°F	(-57°C)	62	1.092
-80°F	(-62°C)	65	1.095
-90°F	(-68°C)	67	1.097
-92°F	(-96°C)	68	1.098

In tropical climates where antifreeze availability may be limited, use a corrosion inhibitor to protect the engine cooling system.

Inhibitors/Conditioners

1. All cooling system inhibitors, including those in antifreeze solutions, become depleted through normal operation. If the inhibitors in antifreeze are allowed to become depleted, the antifreeze becomes corrosive and attacks and coats the metallic surfaces of the cooling system which reduces heat transfer. Cooling system conditioners which contain these inhibitors must be added to maintain corrosion protection.
2. SOLUBLE OIL IS NOT RECOMMENDED for use in this engine as its use will reduce heat transfer.
3. There are no miracle additives that will increase heat transfer or prevent overheating. Conditioned water is still the best coolant.

MAINTENANCE OF COOLING SYSTEM INHIBITORS

Keeping the engine coolant properly inhibited will keep the engine and radiator free of rust, scale deposits and corrosion.

New machines are delivered with antifreeze protection. Service at regular scheduled interval specified in the "SCHEDULED MAINTENANCE GUIDE".

Each time the coolant is drained and replaced, the coolant must be recharged.

COOLANT TESTING FOR CONDITIONER CONCENTRATION

When the cooling system is maintained as recommended, the conditioner concentration should be satisfactory. The only accurate method for testing chemical concentrations in coolant with mixed chemical compounds is a laboratory analysis. For this reason, the coolant inhibitor should be maintained as shown in the "SCHEDULED MAINTENANCE GUIDE".

NOTE: *Inadequate concentration of the coolant additive can result in major corrosive damage to cooling system components. Over concentration can cause formation of "gel" that can cause restriction, plugging of passages and overheating.*

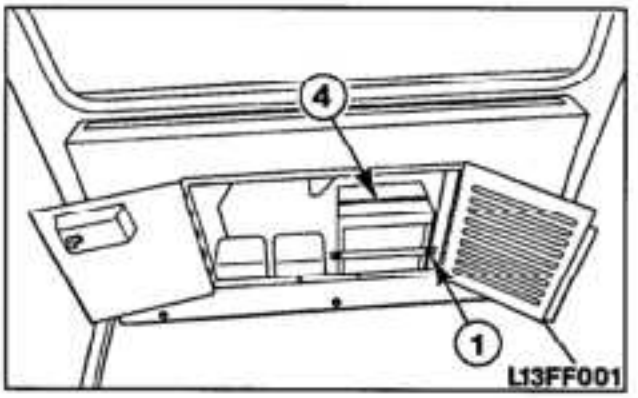
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CAB AIR FILTER - IF EQUIPPED

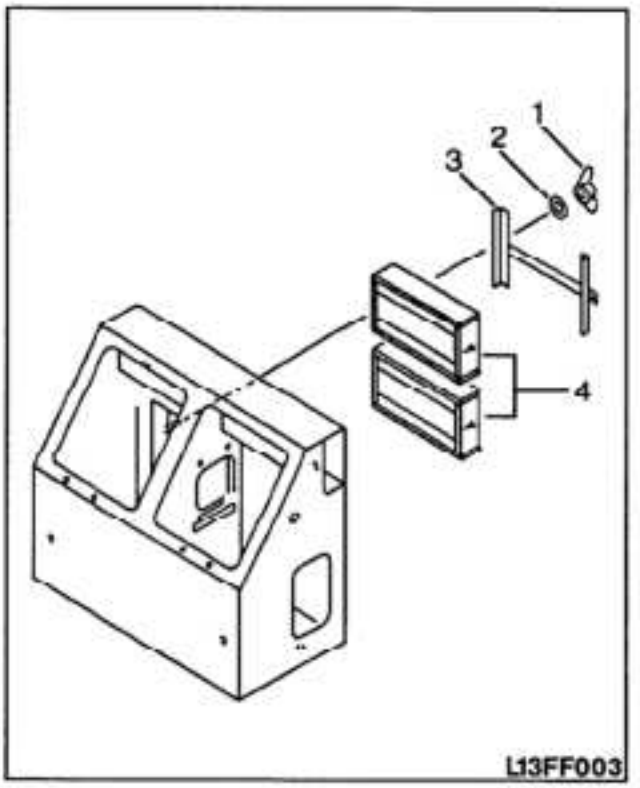
Replace the cab air filter as follows:

★ Be sure the cab blower fan is stopped before replacing the filter elements.

1. Open the access doors located at the rear of the cab to gain access to the filter elements.
2. Remove holder mounting nuts (1), flat washers (2) and holder (3) holding filter elements (4). Pull out the two elements and discard them.



3. Install the new filter elements with the arrow pointing in the direction shown.
4. Install filter element holder (3), flat washers (2) and mounting nuts (1).
5. Close the access doors located at the rear of the cab.



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