CEAM025805

Operation & Maintenance Manual

WA380-7

WHEEL LOADER

SERIAL NUMBERS WA380-7 A64001 and up

ENGINE 6D107E-2

March 2016

KOMATSU®

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TABLE OF CONTENTS

INTRODUCTION

FOREWORD 0-2
SAFETY INFORMATION 0-3
APPROVED AND NON-APPROVED USES 0-4
Approved Functions 0-4
Non-Approved Functions 0-4
VISIBILITY STANDARD 0-5
Visibility in Immediate Area 0-5
12-M Radius Visibility 0-5
PRODUCT IDENTIFICATION 0-6
Directions Of Machine 0-6
Machine Serial Number 0-6
Engine Serial Number, EPA Regulations 0-7
Service Meter Location 0-7
SERIAL NUMBERS AND DEALER INFORMATION 0-8
Model: WA380-7 0-8
TABLE OF CONTENTS 0-9

SAFETY

SAFETY AND WARNING DECALS 1-2
Location of the Safety Decals 1-2
Safety Labels 1-4
GENERAL SAFETY RULES AND PRECAUTIONS 1-12
General Safety Rules 1-12
Unauthorized Modifications 1-12
General Safety at Job Site 1-13
Working on Loose Ground 1-13
Safety Features 1-13
Personal Protective Equipment 1-14
Fire and Explosion Prevention 1-14
Fire Caused by Fuel, Oil, Antifreeze, or Window Washer Fluid 1-14
Fire Caused by Accumulation of Flammable Material 1-15
Fire Caused by Electrical Wiring 1-15
Fire Caused by Hydraulic Lines 1-15
Fire Caused by Lighting Equipment 1-15
Action if Fire Occurs 1-16
Fire Extinguisher and First Aid Kit 1-16
Mounting and Dismounting 1-17
Inside Operator's Compartment 1-18
Precautions When Standing Up from Operator's Seat 1-19
Precautions Related to Roll Over Protective Structure (ROPS) 1-20
Unauthorized Modification 1-20
Emergency Escape from Operator's Cab 1-20
Leaving Operator's Compartment 1-21
Precautions When Cleaning Cab Glass 1-22

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Asbestos Hazard Alert ... 1-22
Crush or Pinch-Point Dangers ... 1-23
Precautions for Ventilation Exhaust Gas ... 1-23
PRECAUTIONS BEFORE STARTING OPERATIONS ... 1-24
Pre-Operational Checks ... 1-24
Ensure Good Visibility ... 1-24
Confirmation of Marks ... 1-24
Precaution for Warning Tag ... 1-25
Checks Before Starting Engine, Adjustments ... 1-25
Precautions When Starting ... 1-26
Seat Belt Inspection ... 1-27
Work Site Hazards ... 1-28
Avoiding Dangerous Situations ... 1-29
Working Clearances ... 1-30
Working Near High-Voltage Cables ... 1-31
RULES FOR TRAVEL ... 1-32
Traveling in Reverse ... 1-32
Working on Loose or Unstable Ground ... 1-33
Operating on Snow or Frozen Surfaces ... 1-33
Travel on Slopes ... 1-34
Using the Brakes ... 1-35
Parking the Machine ... 1-36
PRECAUTIONS DURING MAINTENANCE OPERATIONS ... 1-37
Warning Tags ... 1-37
Equipment Storage ... 1-37
Work at High Places ... 1-38
Proper Tools ... 1-38
Keeping the Machine Clean ... 1-39
Using Drop Lamps ... 1-39
Working Under the Machine ... 1-39
Stopping Machine During Inspection and Maintenance ... 1-40
Precautions When Using Hammer ... 1-41
Noise ... 1-41
Precautions When Using Compressed Air ... 1-41
Running the Machine During Inspection and Maintenance ... 1-42
Rules for Refueling the Machine ... 1-43
Cooling System Precautions ... 1-43
Welding Precautions ... 1-43
Battery Precautions ... 1-43
Battery Hazard Prevention ... 1-44
Using Jumper Cables ... 1-45
Starting the Machine ... 1-45
High-Pressure Hoses ... 1-46
Safe Handling of High-Pressure Hoses ... 1-46
Precautions for High-Pressure Liquids ... 1-47
Precautions for High-Pressure Fuel ... 1-47
Precautions for High-Pressure Oil ... 1-47
Precautions for High-Temperature Liquids ... 1-48
Precautions for High-Temperature Coolant ... 1-48

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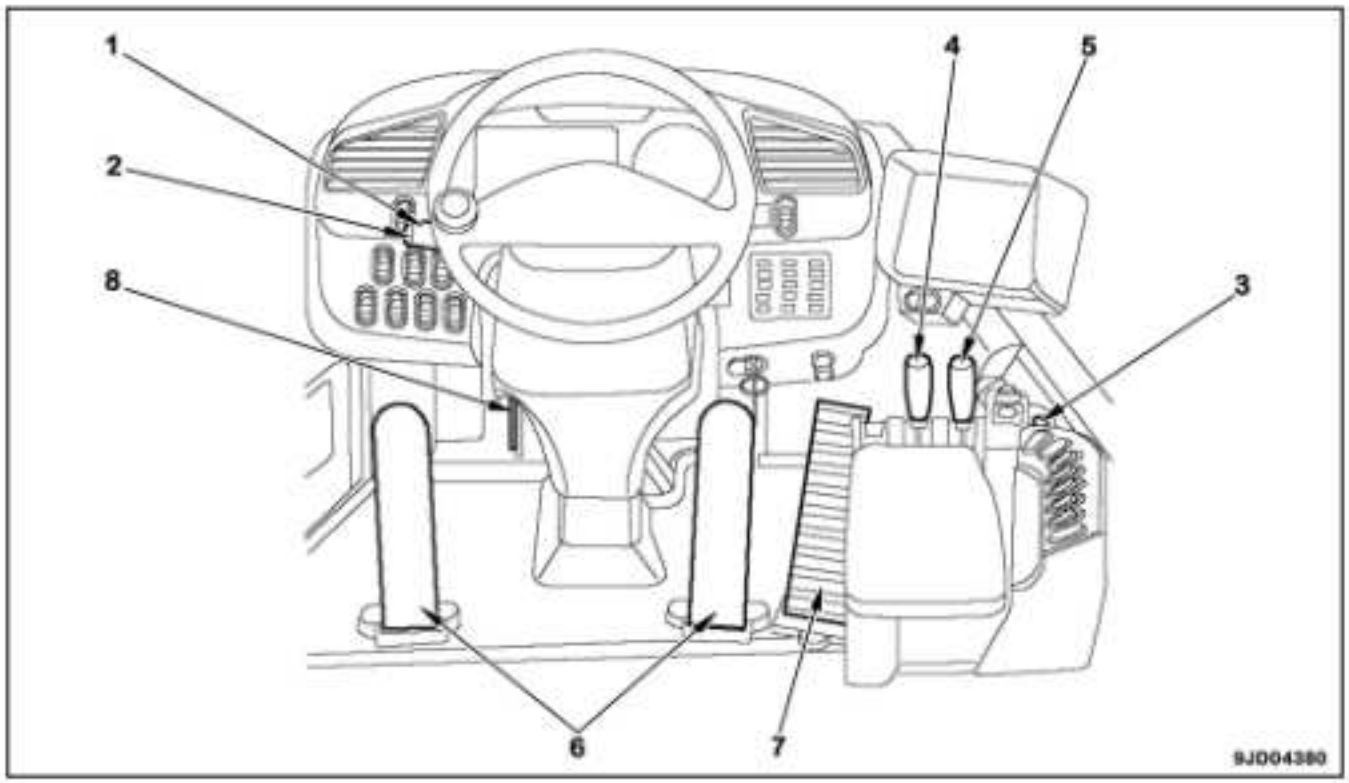
Precautions for High-Temperature Oil 1-48
Critical Parts 1-48
Handling Accumulator and Gas Spring 1-49
Disposal of Waste Materials 1-49
Inflating Tires 1-50
High Voltage 1-50
Maintenance of Air Conditioner 1-50
TRANSPORTATION 1-51
Safety Rules for Loading and Unloading 1-51

OPERATION

GENERAL VIEW 2-2
General View of Machine 2-2
General View of Controls and Gauges 2-4
Switch Panel 2-5
Machine Monitor 2-6
General View 2-6
Display of Liquid Crystal Unit 2-8
EXPLANATION OF COMPONENTS 2-10
Machine Monitor 2-10
Basic Operation Of Machine Monitor 2-11
Starting Engine When Situation Is Normal 2-11
Start Engine While Engine Shutdown Secondary Switch Is On 2-12
Stopping Engine When Situation is Normal 2-13
If Problem was Found When Starting Machine 2-14
If Trouble Occurs while Operating Machine 2-15
Warning Display 2-16
Action Level 2-17
Occurred Failure Code Display 2-19
Engine Coolant Temperature Caution Lamp 2-22
Torque Converter Oil Caution Lamp 2-22
Hydraulic Oil Temperature Caution Lamp 2-22
Fuel Level Caution Lamp 2-22
Brake Oil Pressure Caution Lamp 2-23
Seat Belt Caution Lamp 2-23
Caution Display 2-24
Engine System Caution Lamp 2-24
Engine Oil Pressure Caution Lamp 2-24
Engine Oil Level Caution Lamp 2-25
Engine Overrun Caution Lamp 2-25
Water Separator Caution Lamp 2-25
Radiator Coolant Level Caution Lamp 2-25
Air Cleaner Clogging Caution Lamp 2-26
Fan Control System Caution Lamp 2-26
KDPF System Caution Lamp 2-27
KDPF Soot Accumulation Caution Lamp 2-27
Transmission System Caution Lamp 2-28
Work Equipment System Caution Lamp 2-28

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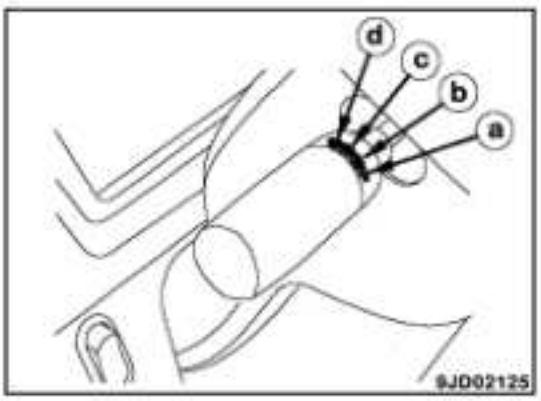
Control Levers and Pedals



(1) Gear speed switch
(2) Directional lever
(3) Work equipment lock switch
(4) Bucket control lever
(5) Boom control lever
(6) Brake pedal
(7) Accelerator pedal
(8) Steering tilt lock lever

Gear Speed Switch

This switch (1) is used to change the gear speed of the machine.



Manual Shift

A desired gear speed can be selected from the four forward and four reverse gear speeds by turning the gear speed switch to that gear speed position.
Use the 1st and 2nd gear speeds for work and the 3rd and 4th for travel.
Position (a): 1st speed
Position (b): 2nd speed
Position (c): 3rd speed
Position (d): 4th speed

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Remark

Measure the specific gravity and calculate the rate of charge from the following conversion table.

Charging Rate (%)	Electrolyte Temperature			
	20°C (68°F)	0°C (32°F)	-10°C (14°F)	-20°C (-4°F)
100	1.28	1.29	1.30	1.31
90	1.26	1.27	1.28	1.29
80	1.24	1.25	1.26	1.27
75	1.23	1.24	1.25	1.26

- As the battery capacity drastically drops in low temperatures, cover or remove the battery from the machine, store the battery in a warm place, and install it again the next morning.
- If the electrolyte level is low, add distilled water in the morning before beginning work. Do not add water after the day's work to prevent diluted electrolyte in the battery from freezing during the night.

After Daily Work Completion

To prevent mud, water, or the undercarriage from freezing and making it impossible for the machine to move on the following morning, observe the following precautions.

- Remove all the mud and water from the machine body. In particular, wipe the hydraulic cylinder rods clean to prevent damage to the seal caused by mud, dirt, or drops of water on the rod from getting inside the seal.
- Park the machine on a firm, dry ground.
  If this is impossible, park the machine on boards.
  The boards prevent the tracks from freezing to the ground, and allow the machine to be moved the next morning.
- Open the drain valve and drain any water collected in the fuel system to prevent it from freezing.
- Fill the fuel tank to capacity. This minimizes moisture condensation in the tank when the temperature drops.

After Cold Weather Season

When the season changes and the weather becomes warmer, do as follows.

- Replace the fuel and oil for all equipment with the ones of the viscosity specified. For details, see "RECOMMENDED FUEL, COOLANT, AND LUBRICANTS" on page 3-11.

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SERVICE PROCEDURE

EVERY 10 HOURS MAINTENANCE (ONLY FOR THE FIRST 50 HOURS)

Until first 50 hours operation, perform the following maintenance every 10 hours.

- Lubricate work equipment

For the method of maintenance, see Every 250 hours maintenance.

INITIAL 250 HOURS MAINTENANCE (ONLY AFTER THE FIRST 250 HOURS)

Perform the following maintenance only after the first 250 hours.

- Replace transmission oil filter cartridge
- Replace hydraulic oil tank filter element

For the method of maintenance, see Every 1,000 hours and 2,000 hours maintenance.

INITIAL 1000 HOURS MAINTENANCE (ONLY AFTER THE FIRST 1000 HOURS)

Perform the following maintenance only after the first 1000 hours.

- Check and adjust engine valve clearance

For details of the method of replacing or maintaining, see the section of service on Every 2000 hours service.

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