TEN00155-00

Operation & Maintenance Manual

WHEEL LOADER

GALEO

WA250-5

SERIAL NUMBERS 70570 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 Galeo WA250-5 Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

CONTENTS

FOREWORD ---- 1- 1
FOREWORD ---- 1- 2
SAFETY INFORMATION ---- 1- 5
INTRODUCTION ---- 1- 7
FRONT/REAR, LEFT/RIGHT DIRECTIONS OF MACHINE ---- 1- 7
NECESSARY INFORMATION ---- 1- 8
PRODUCT IDENTIFICATION NUMBER (PIN)/MACHINE SERIAL NO. PLATE ---- 1- 8
ENGINE SERIAL NO. PLATE ---- 1- 8
POSITION OF SERVICE METER ---- 1- 9
TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR ---- 1- 9
SAFETY ---- 2- 1
SAFETY ---- 2- 2
SAFETY LABELS ---- 2- 5
LOCATION OF SAFETY LABELS ---- 2- 5
SAFETY LABELS ---- 2- 6
GENERAL PRECAUTIONS ---- 2- 11
PRECAUTIONS FOR OPERATION ---- 2- 20
STARTING ENGINE ---- 2- 20
OPERATION ---- 2- 22
TRANSPORTATION ---- 2- 28
BATTERY ---- 2- 29
TOWING ---- 2- 31
PRECAUTIONS FOR MAINTENANCE ---- 2- 32
PRECAUTIONS WITH TIRES ---- 2- 39
OPERATION ---- 3- 1
GENERAL VIEW ---- 3- 2
GENERAL VIEW OF MACHINE ---- 3- 2
GENERAL VIEW OF CONTROLS AND GAUGES ---- 3- 3
EXPLANATION OF COMPONENTS ---- 3- 5
MACHINE MONITOR ---- 3- 5
SWITCHES ---- 3- 31
CONTROL LEVERS, PEDALS ---- 3- 38
STEERING TILT LOCK LEVER ---- 3- 42
CAP AND COVER WITH LOCK ---- 3- 42
FRAME LOCK BAR ---- 3- 43
TOWING PIN ---- 3- 44
GREASE PUMP ---- 3- 44
CAB DOOR INNER LOCK ---- 3- 44
CAB DOOR OPEN LOCK ---- 3- 45
CAB WINDOW OPEN LOCK CANCEL KNOB ---- 3- 45
FUSE ---- 3- 45
SLOW BLOW FUSE ---- 3- 47
POWER OUTLET ---- 3- 47
STORAGE BOX ---- 3- 47
AM/FM RADIO ---- 3- 48
AM/FM RADIO-CASSETTE STEREO ---- 3- 54
AIR CONDITIONER ---- 3- 62
HANDLING CAB WIPER ---- 3- 67
OPERATION ---- 3- 68

MidWestTech | Komatsu Galeo WA250-5 Wheel Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

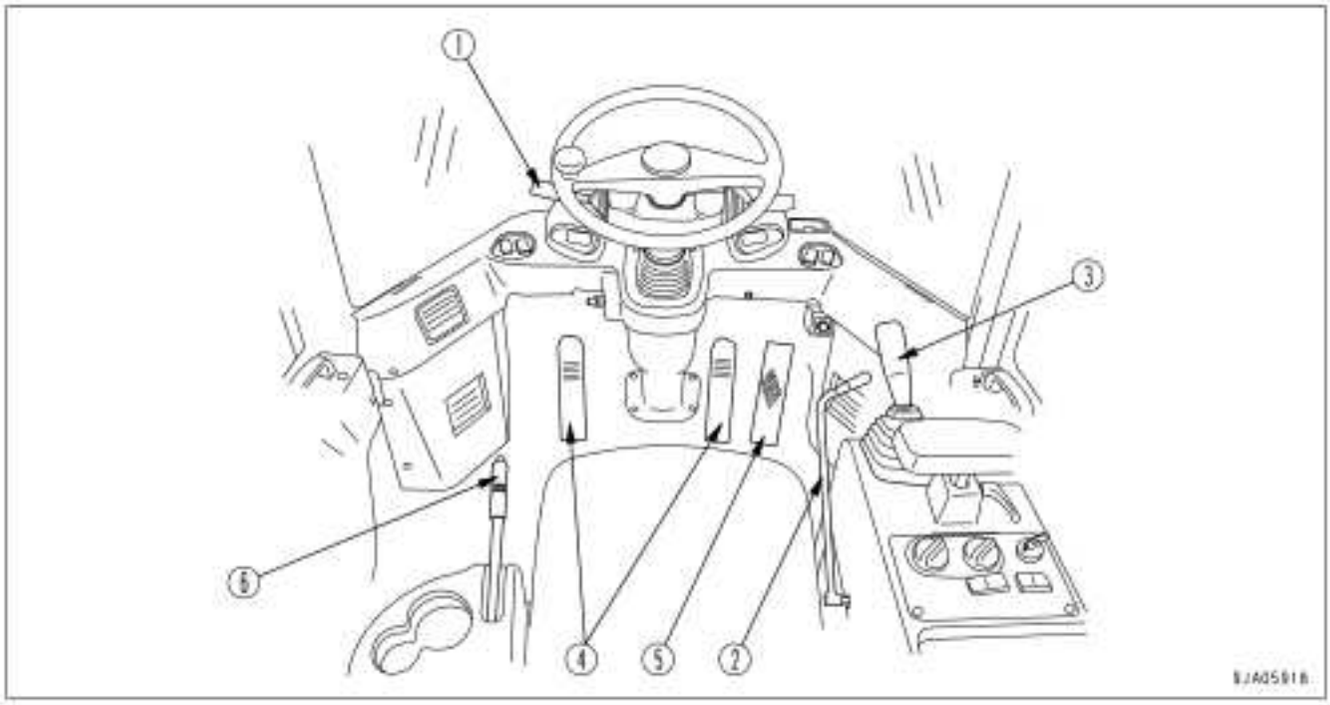
CHECK BEFORE STARTING ENGINE, ADJUST ---- 3- 68
STARTING ENGINE ---- 3- 83
OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3- 85
STOPPING ENGINE ---- 3- 87
MOVING THE MACHINE (DIRECTIONAL, SPEED), STOPPING THE MACHINE ---- 3- 88
TURNING ---- 3- 92
OPERATION OF WORK EQUIPMENT ---- 3- 94
WORK POSSIBLE USING WHEEL LOADER ---- 3- 96
PRECAUTIONS FOR OPERATION ---- 3-101
ADJUSTING WORK EQUIPMENT POSTURE ---- 3-103
PARKING MACHINE ---- 3-105
CHECKS AFTER COMPLETION OF OPERATION ---- 3-107
LOCKING ---- 3-107
HANDLING THE TIRES ---- 3-108
TRANSPORTATION ---- 3-110
TRANSPORTATION PROCEDURE ---- 3-110
LOADING, UNLOADING WORK WITH TRAILERS ---- 3-110
LIFTING MACHINE ---- 3-114
COLD WEATHER OPERATION ---- 3-116
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-116
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-117
AFTER COLD WEATHER ---- 3-117
WARMING-UP OPERATION FOR STEERING HYDRAULIC CIRCUIT IN COLD WEATHER ---- 3-118
LONG-TERM STORAGE ---- 3-119
BEFORE STORAGE ---- 3-119
DURING STORAGE ---- 3-119
AFTER STORAGE ---- 3-119
TROUBLESHOOTING ---- 3-120
WHEN MACHINE RUNS OUT OF FUEL ---- 3-120
METHOD OF TOWING MACHINE ---- 3-120
IF BATTERY IS DISCHARGED ---- 3-122
OTHER TROUBLE ---- 3-125
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

MidWestTech | Komatsu Galeo WA250-5 Wheel Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

WHEN REQUIRED ---- 4- 17
CHECK BEFORE STARTING ---- 4- 36
EVERY 50 HOURS SERVICE ---- 4- 37
EVERY 100 HOURS SERVICE ---- 4- 38
EVERY 250 HOURS SERVICE ---- 4- 40
EVERY 500 HOURS SERVICE ---- 4- 46
EVERY 1000 HOURS SERVICE ---- 4- 50
EVERY 2000 HOURS SERVICE ---- 4- 55
EVERY 4000 HOURS SERVICE ---- 4- 61
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS, OPTIONS ---- 6- 1
SELECTING BUCKET AND TIRES ---- 6- 2
INDEX ---- 7- 1

MidWestTech | Komatsu Galeo WA250-5 Wheel Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

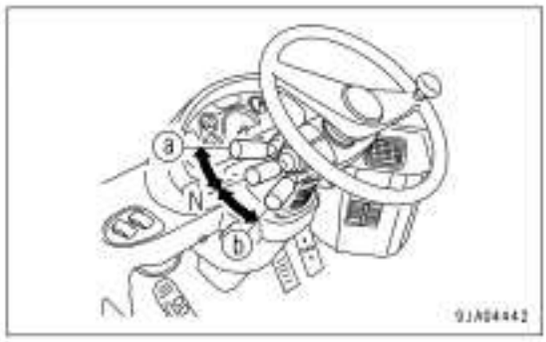
CONTROL LEVERS, PEDALS



(1) Directional lever
(2) Work equipment lock lever
(3) Work equipment lever
(4) Brake pedal
(5) Accelerator pedal
(6) Parking brake lever

DIRECTIONAL LEVER

This lever (1) is used to switch the direction of travel of the machine between forward and reverse.
When starting the engine, if the directional lever is not at the N position, the engine will not start.
Position (a): FORWARD
Position N: NEUTRAL
Position (b): REVERSE



REMARK
When the starting switch is turned to the ON position, if the directional lever is not at the N position, the central warning lamp lights up and the alarm buzzer sounds intermittently.
When the directional lever is set to the N position, the central warning lamp goes out and the alarm buzzer stops.

MidWestTech | Komatsu Galeo WA250-5 Wheel Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

TRANSPORTATION

When transporting the machine, observe all related laws and regulations, and be careful to assure safety.

TRANSPORTATION PROCEDURE

When transporting the machine, choose the optimum transportation method in reference to the weight and dimensions shown in "SPECIFICATIONS (PAGE 5-2)". Note that machine specifications (weight and dimensions) vary depending on the kind of tire and bucket.

LOADING, UNLOADING WORK WITH TRAILERS

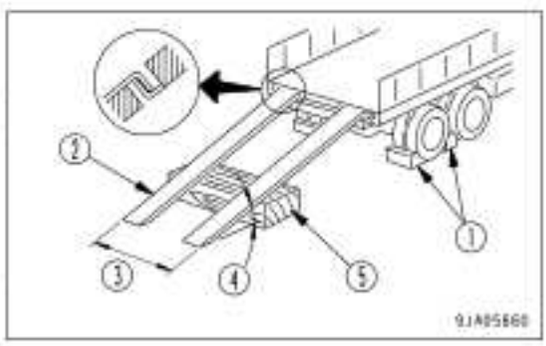
⚠ WARNING

- **When loading or unloading the machine, run the engine at low speed, travel at low speed, and operate slowly.**
- **When loading or unloading the machine, stop the trailer on firm level ground.**
  In addition, keep well away from the road shoulder.
- **Use ramps of ample width, length, thickness, and strength, and install them securely at an angle of less than 15°.**
  When using an embankment, compact the fill soil thoroughly and make sure that the slope face does not collapse.
- **Remove the mud stuck to the undercarriage to prevent the machine from slipping to the side on the ramps.**
  In addition, remove any water, snow, ice, grease, or oil from the ramps.
- **Never change direction on the ramps. There is danger that the machine may tip over.**
  If it is necessary to change direction, return to the ground surface or the trailer platform, correct the direction, and start again.
- **The position of the center of gravity of the machine will change suddenly at the connection of the ramp and trailer, and there is danger of the machine losing its balance. Always drive slowly over this point.**

When loading or unloading, always use ramps or a platform. Proceed as follows.

LOADING

1. Load and unload on firm level ground only.
   Maintain a safe distance from the edge of a road.
2. Apply the brakes on the trailer securely and insert locks (1) under the tires to hold the trailer in position.
   Set the distance (3) between ramps (2) to match the distance between the left and right tires, and make angle (4) of the ramps a maximum of 15°.
   If ramps (2) sag appreciably under the weight of the machine, put wooden blocks (5) under the ramps to support them.
3. Determine the direction of the ramp, then slowly load the machine.
4. Load the machine correctly in the specified position on the trailer.



MidWestTech | Komatsu Galeo WA250-5 Wheel Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >

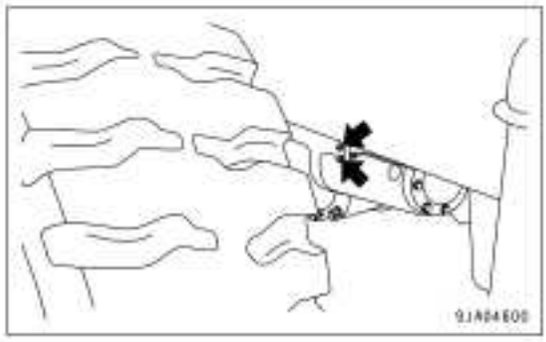
EVERY 100 HOURS SERVICE

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

LUBRICATE REAR AXLE PIVOT PIN

(2 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.



CLEAN ELEMENT IN AIR CONDITIONER FRESH AIR FILTER

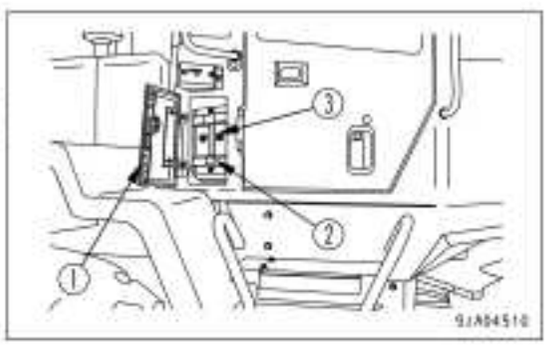
(If equipped)

⚠ WARNING

If compressed air is used, there is danger that dirt may fly and cause personal injury.
Always wear protective glasses, dust mask, and other protective equipment.

If the air conditioner has been used, the air filter should be cleaned.
Stop the air conditioner before cleaning the element.

1. Open cover (1).
2. Remove bracket (2) and filter (3) as one unit.
3. Direct dry compressed air (less than 0.69 MPa (7 kgf/ cm^2, 99.4 PSI)) to the element from inside along its folds, then direct it from outside along its folds and again from inside.
4. When installing, fit filter (3) into bracket (2), then install.



MidWestTech | Komatsu Galeo WA250-5 Wheel Loader Operation & Maintenance Man... Order the manual at mid-west-tech.com >