TEN00217-01

Operation & Maintenance Manual

WHEEL LOADER **WA250PT-5**

SERIAL NUMBERS 72302 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 WA250PT-5 Wheel Loader Operation & Maintenance Manual | Pu... 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- 39
STEERING TILT LOCK LEVER ---- 3- 43
CAP AND COVER WITH LOCK ---- 3- 43
FRAME LOCK BAR ---- 3- 44
TOWING PIN ---- 3- 45
GREASE PUMP ---- 3- 45
CAB DOOR INNER LOCK ---- 3- 45
CAB DOOR OPEN LOCK ---- 3- 46
CAB WINDOW OPEN LOCK CANCEL KNOB ---- 3- 46
FUSE ---- 3- 46
SLOW BLOW FUSE ---- 3- 48
POWER OUTLET ---- 3- 48
STORAGE BOX ---- 3- 48
AM/FM RADIO ---- 3- 49
AM/FM RADIO-CASSETTE STEREO ---- 3- 55
AIR CONDITIONER ---- 3- 63
HANDLING CAB WIPER ---- 3- 68
HANDLING MACHINES EQUIPPED WITH KOMTRAX ---- 3- 69

MidWestTech | Komatsu WA250PT-5 Wheel Loader Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

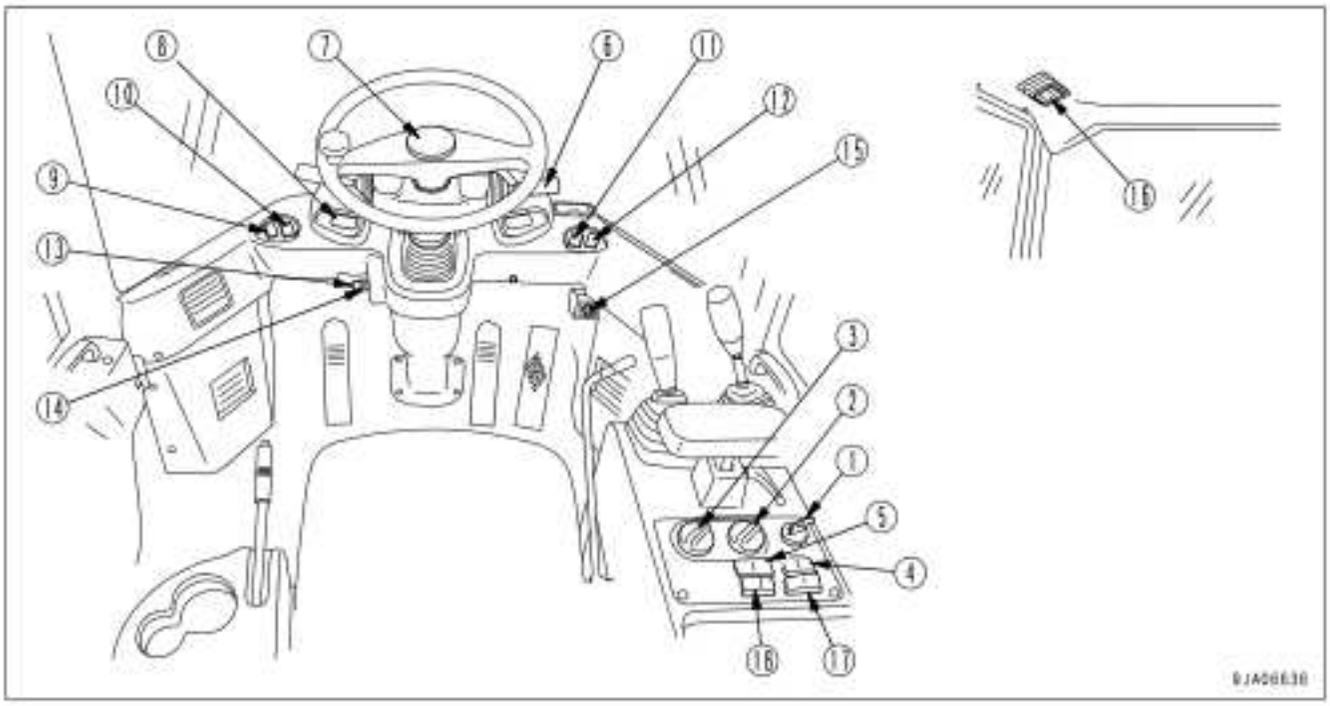
OPERATION ---- 3- 70
CHECK BEFORE STARTING ENGINE, ADJUST ---- 3- 70
STARTING ENGINE ---- 3- 85
OPERATIONS AND CHECKS AFTER STARTING ENGINE ---- 3- 87
STOPPING ENGINE ---- 3- 89
MOVING THE MACHINE (DIRECTIONAL, SPEED), STOPPING THE MACHINE ---- 3- 90
TURNING ---- 3- 94
OPERATION OF WORK EQUIPMENT ---- 3- 96
HANDLING HYDRAULIC QUICK COUPLER ---- 3- 98
WORK POSSIBLE USING WHEEL LOADER ---- 3-101
PRECAUTIONS FOR OPERATION ---- 3-106
ADJUSTING WORK EQUIPMENT POSTURE ---- 3-108
PARKING MACHINE ---- 3-112
CHECKS AFTER COMPLETION OF OPERATION ---- 3-114
LOCKING ---- 3-114
HANDLING THE TIRES ---- 3-115
TRANSPORTATION ---- 3-117
TRANSPORTATION PROCEDURE ---- 3-117
LOADING, UNLOADING WORK WITH TRAILERS ---- 3-117
LIFTING MACHINE ---- 3-121
COLD WEATHER OPERATION ---- 3-123
PRECAUTIONS FOR LOW TEMPERATURE ---- 3-123
PRECAUTIONS AFTER COMPLETION OF WORK ---- 3-124
AFTER COLD WEATHER ---- 3-124
WARMING-UP OPERATION FOR STEERING HYDRAULIC CIRCUIT IN COLD WEATHER ---- 3-125
LONG-TERM STORAGE ---- 3-126
BEFORE STORAGE ---- 3-126
DURING STORAGE ---- 3-126
AFTER STORAGE ---- 3-126
TROUBLESHOOTING ---- 3-127
WHEN MACHINE RUNS OUT OF FUEL ---- 3-127
METHOD OF TOWING MACHINE ---- 3-127
IF BATTERY IS DISCHARGED ---- 3-129
OTHER TROUBLE ---- 3-132
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 OTHTHAN 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

MidWestTech | Komatsu WA250PT-5 Wheel Loader Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

SERVICE PROCEDURE ---- 4- 16
INITIAL 250 HOURS SERVICE ---- 4- 16
WHEN REQUIRED ---- 4- 17
CHECK BEFORE STARTING ---- 4- 37
EVERY 50 HOURS SERVICE ---- 4- 38
EVERY 100 HOURS SERVICE ---- 4- 39
EVERY 250 HOURS SERVICE ---- 4- 41
EVERY 500 HOURS SERVICE ---- 4- 47
EVERY 1000 HOURS SERVICE ---- 4- 51
EVERY 2000 HOURS SERVICE ---- 4- 56
EVERY 4000 HOURS SERVICE ---- 4- 62
SPECIFICATIONS ---- 5- 1
SPECIFICATIONS ---- 5- 2
ATTACHMENTS, OPTIONS ---- 6- 1
SELECTING BUCKET AND TIRES ---- 6- 2
HANDLING FORK TOOL ---- 6- 3
EXPLANATION OF COMPONENTS ---- 6- 3
OPERATION ---- 6- 4
INDEX ---- 7- 1

MidWestTech | Komatsu WA250PT-5 Wheel Loader Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

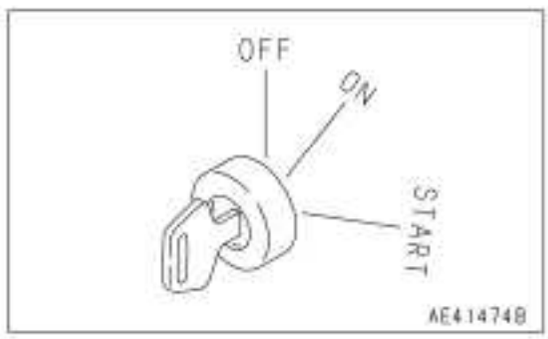
SWITCHES



(1) Starting switch
(2) Speed range selector switch
(3) Variable shift control switch
(4) Traction control switch
(5) E.C.S.S. (electronic controlled suspension system) switch (if equipped)
(6) Lamp switch
(6) Turn signal lever
(6) Dimmer switch
(7) Horn button
(8) Hazard lamp switch
(9) Front working lamp switch
(10) Rear working lamp switch
(11) Monitor panel mode selector switch 1
(12) Monitor panel mode selector switch 2
(13) Front wiper switch
(14) Rear wiper switch
(15) Cigarette lighter
(16) Room lamp switch
(17) Attachment selection switch
(18) Dump speed switch

STARTING SWITCH

This switch (1) is used to start or stop the engine.



OFF position
The key can be inserted or with drawn. The switches for the electric system are all turned off and the engine is stopped.

ON position
In this position, electric current flows to the charging circuit, lamp circuit, and accessory circuit.
Keep the starting switch key at the ON position while the engine is running.

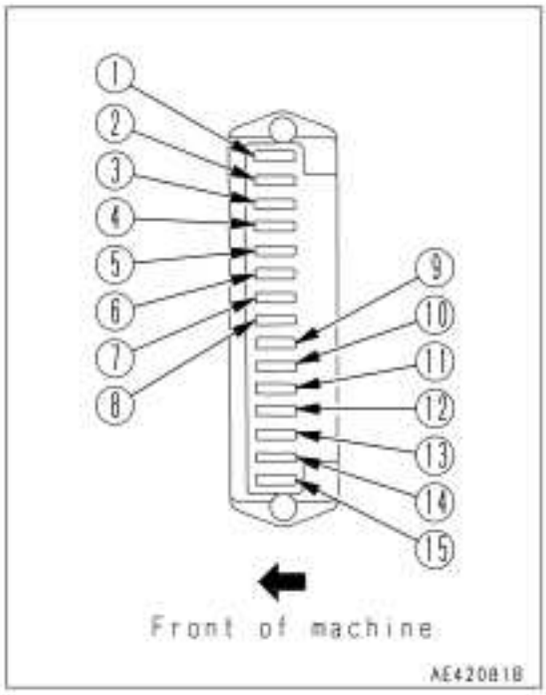
START position
This is the engine-start position. Keep the key at this position during cranking. Immediately after starting the engine, release the key. It will automatically return to the ON position.

MidWestTech | Komatsu WA250PT-5 Wheel Loader Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

FUSE CAPACITY AND NAME OF CIRCUIT

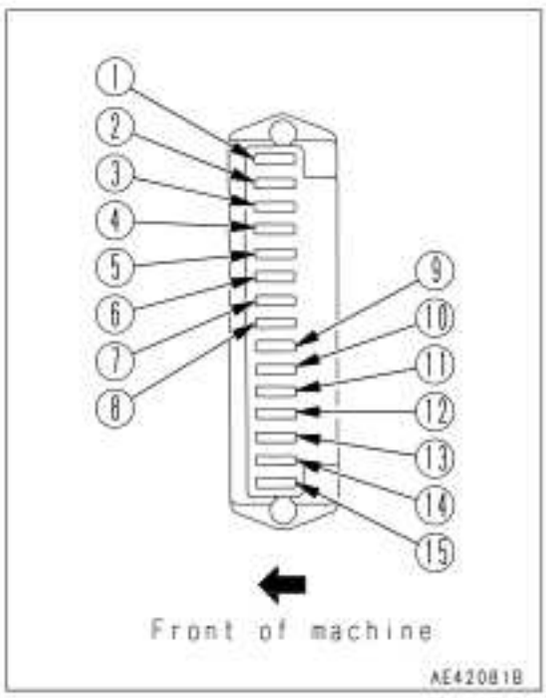
FUSE BOX A

No.	Fuse capacity	Name of circuit
(1)	20A	Starting switch
(2)	10A	Hazard warning flashing lamp
(3)	10A	HST control A
(4)	10A	Parking brake A
(5)	10A	Instrument panel
(6)	10A	Radio A, Room lamp
(7)	10A	Auxiliary pwr (Battery +24V)
(8)	10A	Head Lamp L.H.
(9)	10A	Head Lamp R.H.
(10)	10A	Turn signal lamp
(11)	10A	Back lamp, Stop lamp
(12)	20A	HST control B
(13)	10A	Work equipment positioner
(14)	10A	Wiper
(15)	10A	Radio B



FUSE BOX B

No.	Fuse capacity	Name of circuit
(1)	20A	Air conditioner A
(2)	20A	Air conditioner B
(3)	10A	Beacon lamp (if equipped)
(4)	10A	KOMTRAX
(5)	10A	Load meter (if equipped)
(6)	20A	Auxiliary pwr (Key on +24V)
(7)	10A	D/C converter (if equipped)
(8)	10A	Parking brake B
(9)	10A	Horn
(10)	10A	Side marker lamp L.H.
(11)	10A	Side marker lamp R.H.
(12)	20A	Front work lamp
(13)	20A	Rear work lamp
(14)	10A	Auxiliary
(15)	10A	Auxiliary



MidWestTech | Komatsu WA250PT-5 Wheel Loader Operation & Maintenance Manual... Order the manual at mid-west-tech.com >

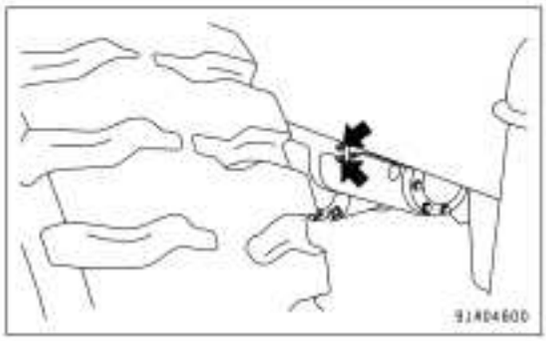
EVERY 100 HOURS SERVICE

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

LUBRICATE REAR AXLE PIVOT PIN

(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

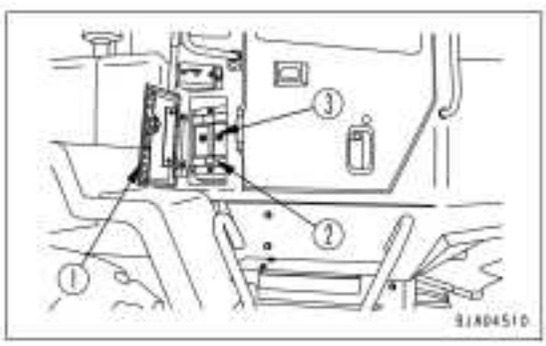
(If equipped)

⚠ WARNING

If compressed air scattered around dust and debris, there is danger of injury. Always wear protective equipment such as protective glasses and mask.

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 kg/ 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 WA250PT-5 Wheel Loader Operation & Maintenance Manual... Order the manual at mid-west-tech.com >