CEAM007602

Operation & Maintenance Manual

KOMATSU®

WA180PT-3MC

WHEEL LOADER

SERIAL NUMBERS WA180PC-3MC A88001 and up

ENGINE 6D102E-1

April 2016

MidWestTech | Komatsu WA180PT-3MC Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

CONTENTS

INTRODUCTION

FORWARD 0-2
SAFETY INFORMATION 0-3
INTRODUCTION 0-4
INTENDED USE 0-4
FEATURES 0-4
BREAKING IN A NEW MACHINE 0-4
LOCATION OF PLATES, TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR 0-5
MACHINE SERIAL NO. PLATE POSITION 0-5
ENGINE SERIAL NO. PLATE POSITION 0-5
TABLE TO ENTER SERIAL NO. AND DISTRIBUTOR 0-5
CONTENTS 0-6

SAFETY

GENERAL PRECAUTIONS 1-2
SAFETY RULES 1-2
SAFETY FEATURES 1-2
UNAUTHORIZED MODIFICATION 1-2
CLOTHING AND PERSONAL PROTECTIVE ITEMS 1-3
ALWAYS APPLY LOCK WHEN LEAVING OPERATOR'S SEAT 1-3
MOUNTING AND DISMOUNTING 1-4
FIRE PREVENTION FOR FUEL AND OIL 1-4
PRECAUTIONS WHEN HANDLING AT HIGH TEMPERATURES 1-5
ASBESTOS DUST HAZARD PREVENTION 1-5
CRUSHING OR CUTTING PREVENTION 1-5
FIRE EXTINGUISHER AND FIRST AID KIT 1-6
PRECAUTIONS WHEN USING ROPS 1-6
PRECAUTIONS FOR ATTACHMENTS 1-6
PRECAUTION WHEN HANDLING ACCUMULATOR 1-7
PRECAUTIONS DURING OPERATION 1-8
BEFORE STARTING ENGINE 1-8
SAFETY AT WORKSITE 1-8
FIRE PREVENTION 1-8
WALK AROUND CHECK 1-8
IN OPERATOR'S CAB 1-9
VENTILATION FOR ENCLOSED AREAS 1-9
PRECAUTIONS FOR MIRRORS, WINDOWS, AND LIGHTS 1-9
WHEN STARTING ENGINE 1-10
AFTER STARTING ENGINE 1-11
CHECKS AFTER STARTING ENGINE 1-11
PRECAUTIONS WHEN MOVING 1-11
CHECK WHEN CHANGING DIRECTION 1-12
PRECAUTIONS WHEN TRAVELING 1-13
TRAVELING ON SLOPES 1-14
PROHIBITED OPERATIONS 1-14
PRECAUTIONS WHEN TRAVELING 1-15
DO NOT GO CLOSE TO HIGH-VOLTAGE CABLES 1-16
ENSURE GOOD VISIBILITY 1-17
OPERATE CAREFULLY ON SNOW 1-17
DO NOT HIT WORK EQUIPMENT 1-17
WHEN USING THE BRAKE 1-17
WHEN MAKING A DOWNHILL TRAVEL 1-17
WORKING ON LOOSE GROUND 1-18
PARKING THE MACHINE 1-18
PRECAUTIONS IN COLD AREAS 1-19
TRANSPORTATION 1-20
LOADING AND UNLOADING 1-20
SHIPPING 1-20

MidWestTech | Komatsu WA180PT-3MC Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

4. SAFETY LOCK LEVER

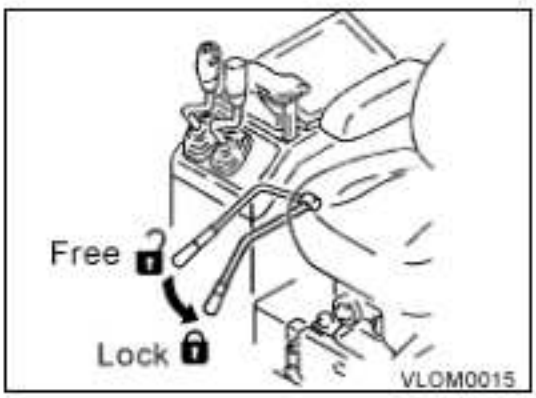
⚠ WARNING

When leaving the operator's compartment, set the safety lock lever securely to the LOCK position. If the control levers are not locked, and they are touched by mistake, this could lead to a serious accident.

If the safety lock lever is not placed securely in the LOCK position, the control levers may not be properly locked. Check that the situation is as shown in the diagram.

When parking the machine or carrying out maintenance, always lower the bucket to the ground and apply the lock.

Use this lever to lock the work equipment lever. Push the lever down to apply the lock.



5. WORK EQUIPMENT CONTROL

This lever operates the lift arm and the bucket.

(1) RAISE

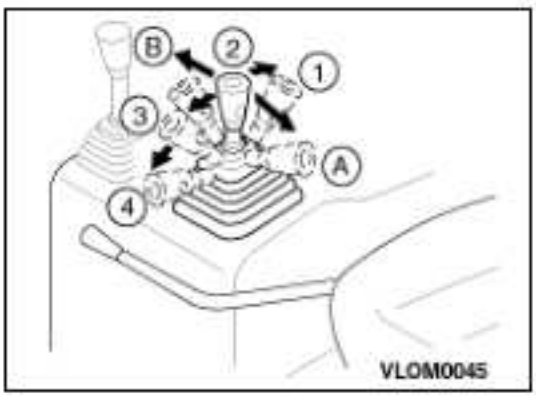
(2) HOLD The lift arm is kept in the same position.

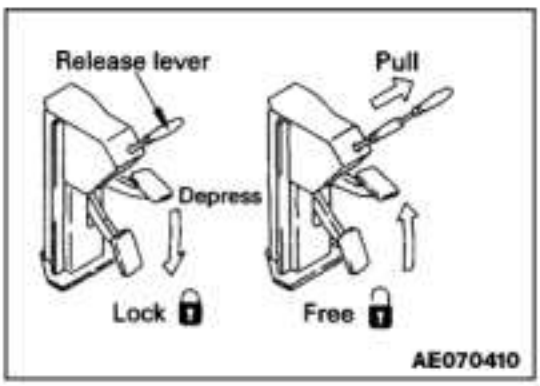
(3) LOWER

(4) FLOAT The lift arm moves freely under external force.

(A) TILT

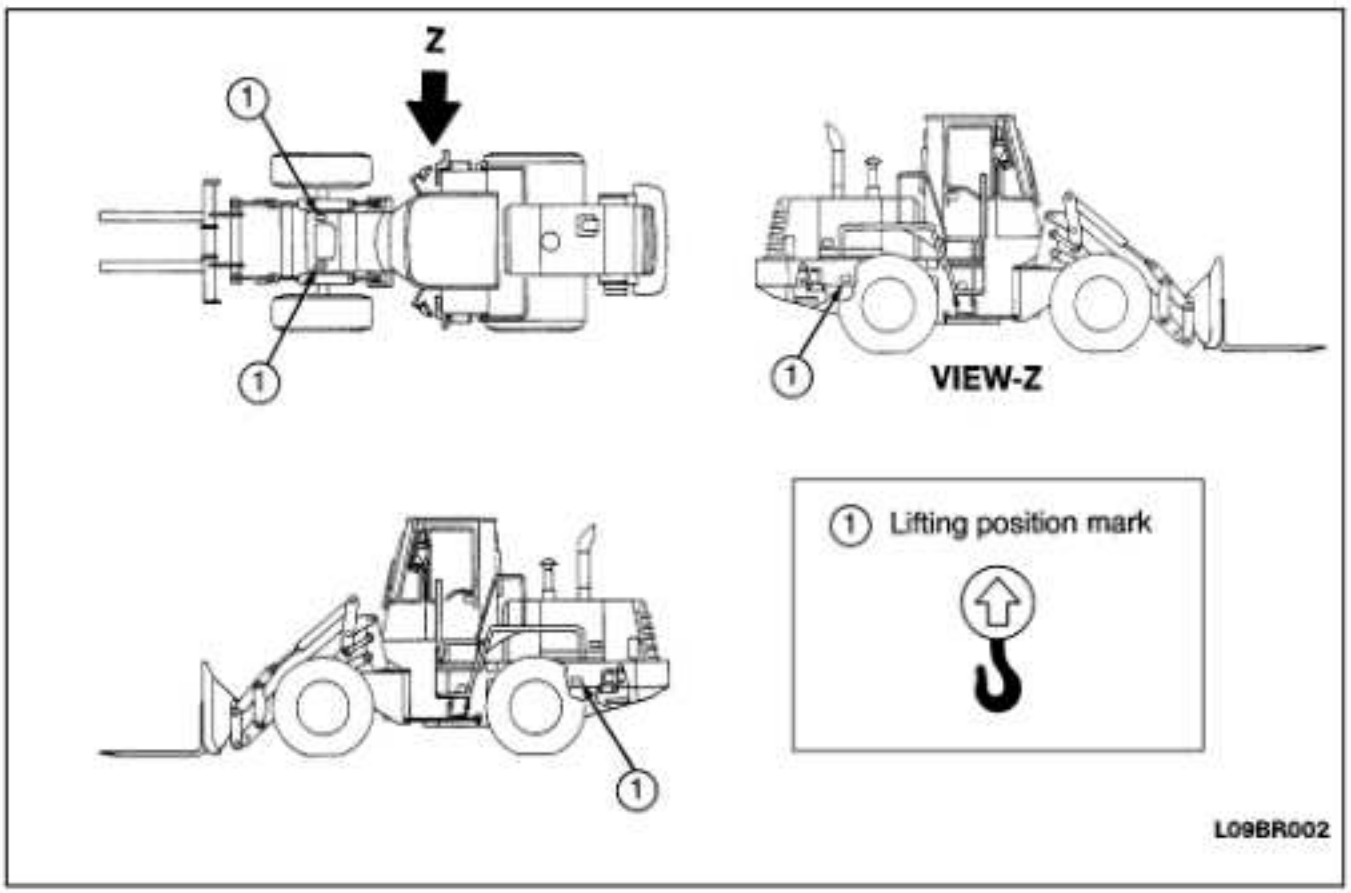
(B) DUMP





MidWestTech | Komatsu WA180PT-3MC Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

LIFTING POINT DECALS

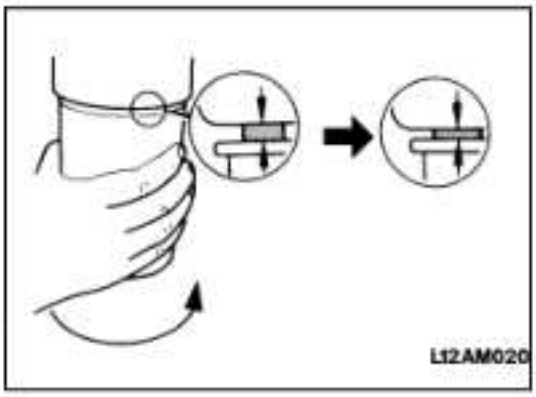


WEIGHT LIST

MODEL	VEHICLE WEIGHT	FRONT AXLE WEIGHT	REAR AXLE WEIGHT	POSITION OF THE CENTER OF GRAVITY (FROM CENTER LINE OF FRONT AXLE)
WA180-3MC	8,840 kg (19,489 lb)	3,708 kg (8,168 lb)	5,135 kg (11,321 lb)	1,568 mm (61.7 in.)

MidWestTech | Komatsu WA180PT-3MC Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >

6. Install the filters on the filter header until the filter seal contacts the seal surface of the filter header and then, turn the filter an additional 1/2 to 3/4 turn by hand.
   ★ **Do not** over tighten the filter or damage may result to the filter seal or threads.



Remark

Use genuine Komatsu replacement filters.

7. After replacing the filters, start the engine and idle it for a few minutes. Check the filters for possible fuel leakage.
8. Close the engine hood.

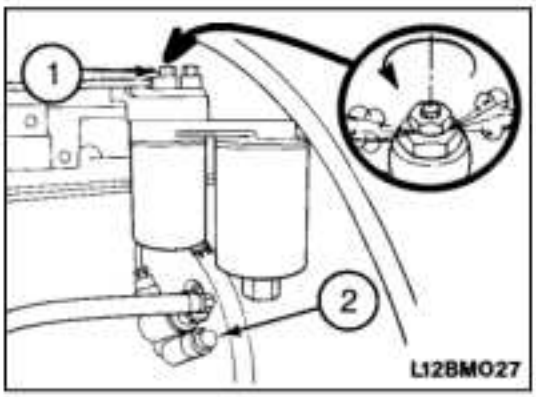
Remark

Controlled venting is provided at the injection pump through the fuel drain manifold. Small amounts of air introduced by changing the filters or injection pump supply line will be vented automatically, if the fuel filter is changed in accordance with the instructions.

Manual bleeding will be required if:

- The fuel filter is not filled prior to installation.
- The injection pump is replaced.
- High pressure fuel lines are replaced.

To manually bleed the low pressure lines and fuel filters:



1. Loosen the bleeding vent screw (1).
2. Operate the priming button (2) on the lift pump until the fuel flowing from the filter is free of air.

Tighten the screw and torque: . . . . . 9 Nm (7 lbf ft.)

MidWestTech | Komatsu WA180PT-3MC Wheel Loader Operation & Maintenance Manual |... Order the manual at mid-west-tech.com >