CEAM001501

Operation & Maintenance Manual

KOMATSU®

WA250-3

WHEEL LOADER

SERIAL NUMBERS WA250-3 A70001 and up

ENGINE 6D102E-1

April 2016

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PRODUCT PUBLICATIONS INFORMATION

VARIOUS PRODUCT PARTS & SERVICE PUBLICATIONS ARE AVAILABLE TO ALL **KOMATSU** CONSTRUCTION EQUIPMENT OWNERS, INCLUDING OPERATION & MAINTENANCE MANUALS, PARTS BOOKS AND SHOP MANUALS.

SPECIAL PUBLICATIONS SUCH AS SERVICE TOOL, AIR CONDITIONING, AND TURBOCHARGER SHOP MANUALS ARE ALSO AVAILABLE AS WELL AS SELECTED OPERATION & MAINTENANCE AND SHOP MANUALS IN FOREIGN LANGUAGES.

THE PUBLICATIONS LISTED BELOW ARE AVAILABLE FOR THIS PARTICULAR MACHINE(S).

DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Engine and Chassis	BEPB002300
PARTS BOOK - MICROFICHE:	
Engine and Chassis	BEPM002300
OPERATION & MAINTENANCE MANUAL:	
Chassis	CEAM001500
SHOP MANUAL:	
Chassis	CEBM001300
Engine	SEBM010002
SAFETY MANUAL	WLT70-1

PARTS AND SERVICE PUBLICATIONS CAN *ONLY* BE ACQUIRED BY AUTHORIZED KOMATSU DISTRIBUTORS, USING THE KOMATSU AMERICA INTERNATIONAL COMPANY PARTS INVENTORY PROCESSING SYSTEM (PIPS).

IF THE PIPS SYSTEM IS NOT AVAILABLE AT THE DISTRIBUTOR LOCATION, THEN THE FOLLOWING REQUISITION FOR TECHNICAL SERVICE PUBLICATIONS AND SERVICE FORMS CAN BE USED. FORM KDC91D IS SHOWN ON THE REVERSE SIDE OF THIS PAGE.

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12.12 OPERATION OF WORK EQUIPMENT

Work equipment control lever (1) can be used to operate the lift arm and bucket as follows.



LIFT ARM OPERATION (LEVER)

(1) RAISE ( )

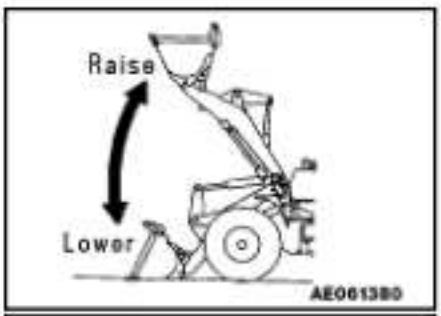
(2) HOLD ( ): The lift arm is kept in the same position.

(3) LOWER ( )

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



When the lift arm control lever is pulled further from the raise position, the lever is stopped in this position until the lift arm reaches the preset kick-out position, and the lever is return to hold position



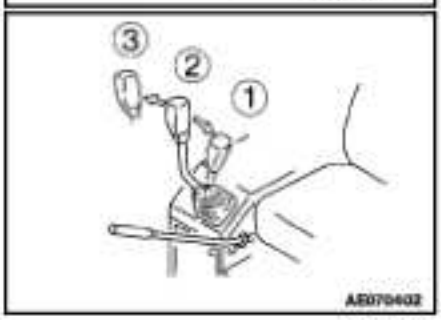
NOTICE:
Do not use the FLOAT position when lowering the bucket.

BUCKET OPERATION (LEVER)

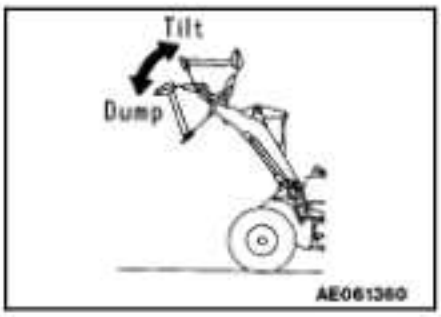
(1) TILT ( ):

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

(3) DUMP ( )



When the bucket control lever is pulled further from the tilt position, the lever is stopped in this position until the bucket reaches the preset position of the positioner, and the lever is returned to the hold position.

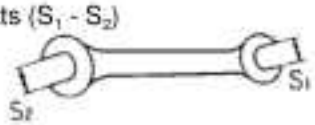


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21. STANDARD TIGHTENING TORQUE FOR BOLTS AND NUTS

21.1 INTRODUCTION OF NECESSARY TOOLS

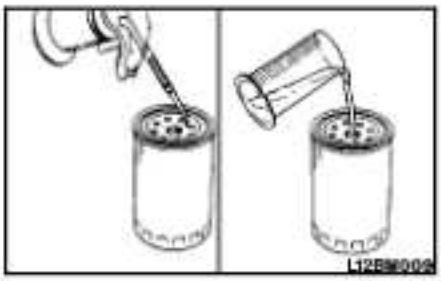
The following tools are needed when carrying out maintenance.

No.	Name of tool	Part No.	Remarks
1	Wrench set	09000-30006	Applicable width across flats (S_1 - S_2) 8 mm - 10 mm 12 mm - 14 mm 13 mm - 17 mm 19 mm - 22 mm 24 mm - 27 mm 30 mm - 32 mm 
2	Screwdriver	09033-00190	Crosshead/flat head interchangeable type
3	Wrench	09014-10200	
4	Pliers	09036-00150	
5	Wrench	09001-03600	36jaw
6	Tire Wrench	417-98-11121	
7	Filter wrench	09019-08035	For filter cartridge
8	Bar	417-98-11110	
9	Tire gauge	09289-00000	
10	Grease pump	07952-70003	For greasing work
11	Nozzle	07951-31400	Hose nozzle for grease pump
12	Grease cartridge	07950-90403	(Lithium base grease: 400 g)
13	Thickness gauge	09054-00009	
14	Hammer	09039-00150	
15	Plate	09963-03000	Warning tag

If any of the above tools are broken, please order them from your distributor.
In addition to above items 1-15, rubber ring 07000-15090 is also provided. This is the rubber band used to secure the grease pump to the machine. For details of the method of using it, see "11. EXPLANATION OF COMPONENT".

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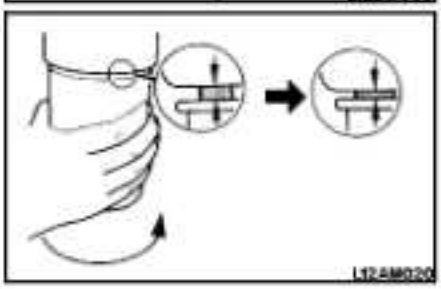
5. Fill the new filters with clean diesel fuel. Then, apply a thin coat of clean engine oil to the seal of the filter.



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 ½ to 3/4 turn by hand.

   Do not over tighten the filter or damage may result to the filter seal or threads.

   Use genuine 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.

NOTE: 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.

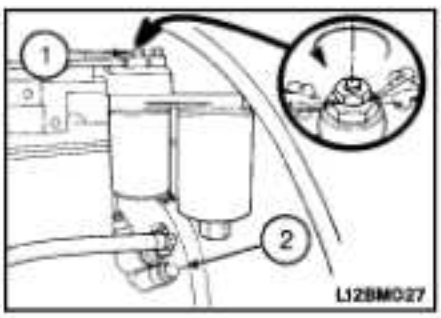
However, manual bleeding will be required if:

- 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:

Loosen the bleeding vent screw (1)

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 to: 9 N•m (7 ft lb)



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