CEAM002101

# Operation & Maintenance Manual

KOMATSU®

# WA180PT-3

## WHEEL LOADER

SERIAL NUMBERS WA180PT-3 A85001 and up

ENGINE 6D102E-1

April 2016

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

# 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 | BEPB003500 |
| **PARTS BOOK - MICROFICHE:** | |
| Engine and Chassis | BEPM003500 |
| **OPERATION & MAINTENANCE MANUAL:** | |
| Chassis | CEAM002100 |
| **SHOP MANUAL:** | |
| Chassis | CEBM001900 |
| Engine | SEBM010002 |
| **SAFETY MANUAL** | WLT70-1 |

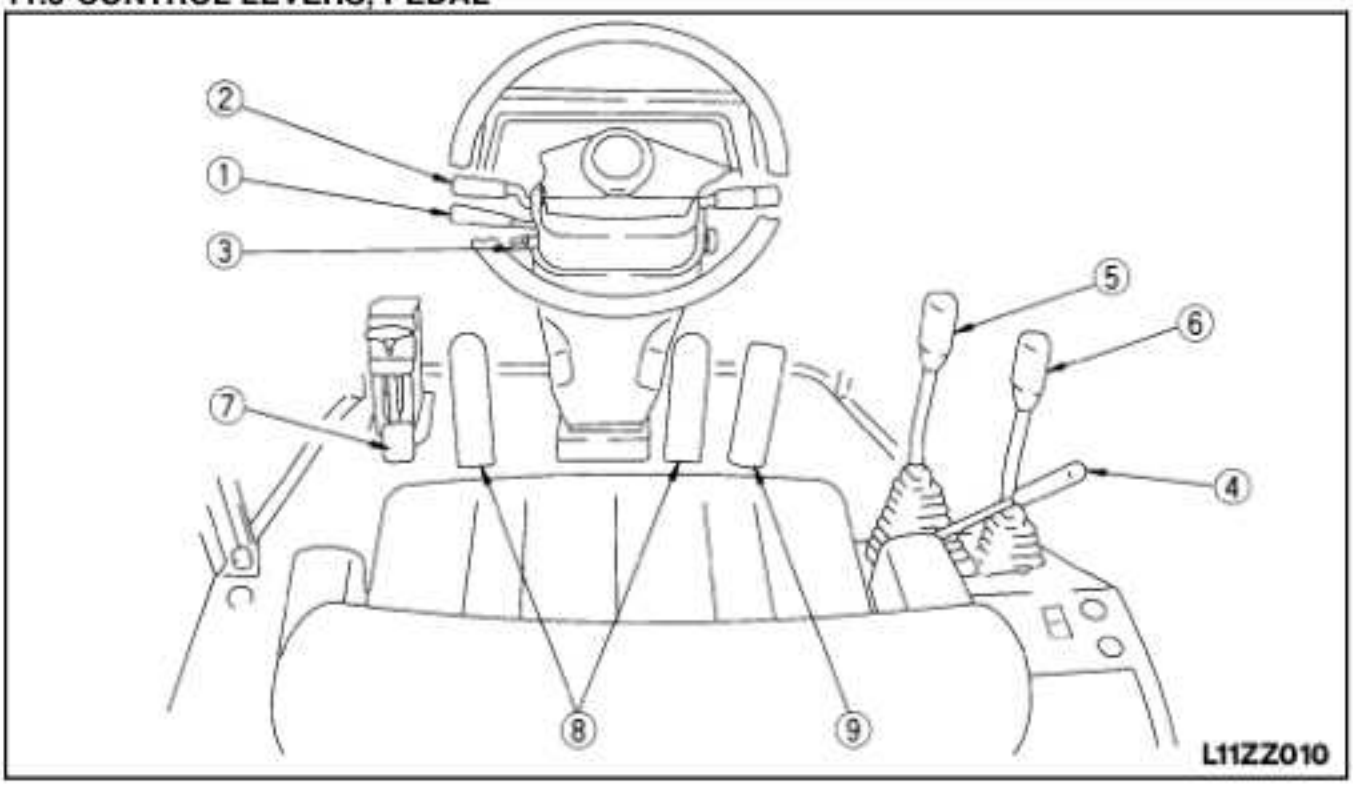
**PARTS AND SERVICE PUBLICATIONS CAN *ONLY* BE ACQUIRED BY AUTHORIZED KOMATSU DISTRIBUTORS, USING THE KOMATSU AMERICA INTERNATIONAL COMPANY PARTS INVENTORY PROCESSING SYSTEM (PIPS).**

**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.**

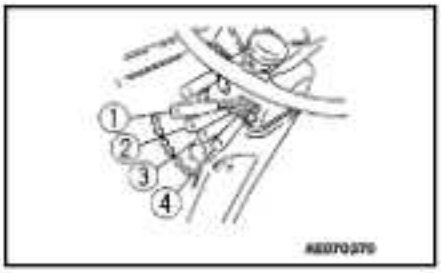


MidWestTech | Komatsu WA180PT-3 Wheel Loader Operation & Maintenance Manual | Pu... Order the manual at mid-west-tech.com >

## 11.3 CONTROL LEVERS, PEDAL




### 1. SPEED CONTROL LEVER



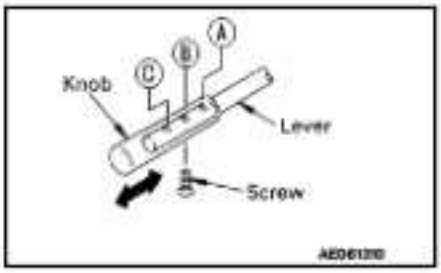

This lever controls the travel speed of the machine.
This machine has a 4-FORWARD, 4-REVERSE speed transmission.

Place the speed control lever into the desired speed range.
1st and 2nd speeds are used for working.
3rd and 4th speeds are used for traveling.

Position (1): 1st
Position (2): 2nd
Position (3): 3rd
Position (4): 4th

**REMARKS**

The length of the lever can be adjusted to 3 stages (positions **A, B, C**). To adjust the length, remove the screw at the bottom of the lever knob, slide the knob to the desired position, then tighten the screw again.
(The lever is installed to position **B** when it is shipped from the factory.)






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

### 18.1.4 GREASE

- Grease is used to reduce friction and help prevent wear, twisting and noise at the joints.
- Grease fittings that were not referred to in the maintenance schedule do not require any scheduled greasing. Add grease to these areas only If something becomes stiff or squeaky.
- Always wipe off all of the old grease that is pushed out when greasing. Be particularly careful to wipe off the old grease in places where sand or dirt sticking in the grease would cause wear of the rotating parts.

### 18.1.5 STORING OIL AND FUEL

- Keep indoors to prevent any water, dirt, or other impurities from getting into storage containers.
- When keeping drums for a long period, put the drum on its side so that the filler port of the drum is at the side. (To prevent moisture from being sucked in) Periodically inspect drums for leakage.
  If drums have to be stored outside, cover them with a waterproof sheet or take other measures to protect them.
- To prevent any change in quality during long-term storage, be sure to use in the order of first in - first out (use the oldest oil or fuel first).

### 18.1.6 FILTERS

- Filters are extremely important safety parts. They prevent impurities in the fluid and air circuits from entering important equipment and causing problems.
  Replace all filters periodically. For details, **see "23. MAINTENANCE SCHEDULE CHART" on page 3-26.**
  However, when working in severe conditions, it is necessary to consider replacing the filters at shorter intervals according to the oil and fuel (sulfur content) being used.
- Never try to clean the filters (cartridge type) and use them again. Always replace with new filters.
- When replacing oil filters, check if any metal particles are stuck to the old filter. If any metal particles are found, please contact your distributor.
- Do not open packs of spare filters until just before they are to be used.
- Always use genuine Komatsu filters.

## FUEL INJECTION PUMP

**DO NOT ATTEMPT TO ADJUST THE FUEL INJECTION PUMP**

Unsatisfactory operation of the engine may not be due to the fuel injection pump. If unsatisfactory operation persists after servicing the filters, consult your distributor to service the fuel injection pump. Special equipment and knowledge are required for proper injection pump service. These are available at your distributor.



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

# 25. SPECIFICATIONS

## WA180-3PTC WITH BUCKET ATTACHMENT

| | | | |
|---|---|---|---|
| **PERFORMANCE** | | | |
| • Bucket capacity | | | 1.7 m³ (2.25 cu.yd) |
| • Normal load | | | 2975 kg (6560 lb) |
| • Travel speed | FORWARD | 1st | 7.0 km/h (4.3 mph) |
| | | 2nd | 11.5 km/h (7.1 mph) |
| | | 3rd | 21.0 km/h (13.0 mph) |
| | | 4th | 33.5 km/h (20.8 mph) |
| | REVERSE | 1st | 7.5 km/h (4.7 mph) |
| | | 2nd | 12.0 km/h (7.4 mph) |
| | | 3rd | 22.5 km/h (14.0 mph) |
| | | 4th | 35.0 km/h (21.7 mph) |
| • Max. rimpull | | | 8300 kg (81395N) |
| • Min. turning radius | Outside of chassis | | 5490 mm (18 ft 0 in) |
| | Center of outside tire | | 4650 mm (15 ft 3 in) |
| • **WEIGHT** | | | |
| • Operating weight (less operator and with full fuel tank) | Front<br>Rear<br>Total | | 4410 kg ( 9724 lb)<br>6130 kg ( 13517 lb)<br>10540 kg ( 23241 lb) |
| • **ENGINE** | | | |
| • Model | | | Komatsu S6D102E-1 diesel engine |
| • Gross power | | | 118 hp |
| • Net horsepower @ 2400 RPM | | | 88 kW (118 hp) |
| • Max. torque (gross) @ 1600 RPM | | | 427 N•m (43.5 kgm) |
| • Starter motor | | | 24V 4.5 kW |
| • Alternator | | | 24V 50A |
| • Battery (quantity 2) | | | 12V 950 CCA x 2 |



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