CEBM018903

# SHOP MANUAL

KOMATSU®

# WB142-5

## BACKHOE LOADER

SERIAL NUMBERS **WB142-5** **A13001** and UP

ENGINE **4D102LE-2**

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June 2010
Printed in USA

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# WEIGHT TABLE

★ This Weight Table is for reference when handling components or when transporting the machine.

Unit: kg (lb)

| Machine model | WB142-5 |
|---|---|
| Engine assembly - Muffler and exhaust pipe | 400 (882) |
| Radiator | 37 (82) |
| Hydraulic oil tank (empty) | 10 (22) |
| Fuel tank (empty) | 62 (137) |
| Front counter weight | 170 (375) |
| Engine hood | 32 (71) |
| Canopy (without seat) | 580 (1,279) |
| Seat | 23 (51) |
| Engine - transmission - pump | 682 (1,504) |
| Hydraulic pump | 31.5 (69.4) |
| Transmission | 232 (511) |
| Front axle | 262 (578) |
| Rear axle | 430 (948) |
| Front wheel (complete with rim) | 52 (115) |
| Rear wheel (complete with rim) | 126 (357) |
| Work equipment (front loader) | 1,100 (2,425) |
| Boom | 313 (690) |
| Bucket | 436 (961) |
| Bucket cylinder (mono-link) | 13x1 |
| Boom cylinder | 46x2 |
| 2-spool control valve | 24 (53) |
| 3-spool control valve | 30 (66) |
| Backhoe work equipment | 750 (1,653) |
| 6-spool control valve | 47 (104) |
| 7-spool control valve | 53 (117) |
| 8-spool control valve | 59 (130) |
| Backhoe boom cylinder | 248 (547) |
| Backhoe arm cylinder | 305 (672) |
| Backhoe swing frame | 162.5 (358.3) |
| Outriggers | 39x2 |
| Boom cylinders | 87.5 (193) |
| Arm cylinders | 67 (148) |
| Bucket cylinders | 52.5 (116) |
| Outrigger cylinders | 27.5x2 |
| Swing cylinders | 34x2 |
| Bucket | 158 (348) |



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# OPERATION OF THE PRIORITY VALVE

★ Test conditions:
- Engine: Operating temperature
- Hydraulic oil: 45 - 55° C (113 - 131° F)
- Parking brake engaged
- Hydraulic pump: ECONOMY MODE




1. Connect a pressure gauge **E2** 254 kg/cm² (3,613 psi) to the pressure tap (1) on the backhoe control valve.
2. Start and operate the engine at 1500 ±50 rpm.
3. Check the pressure value on the pressure gauge**E2** with the steering wheel stopped.
4. Engage a slight steering motion and check for an increase in pressure.
5. Continue steering until full steering is obtained and make sure that the pressure increases to normal value when the steering wheel is forced.
   - ★ Normal pressure: 178 ±5 kg/cm² (2,538 ±73 psi)
   - ★ If pressure fails to reach normal value, perform the steering system pressure calibration procedure.
   - ★ If the pressure displayed on the pressure gauge shows no variation when turning the steering wheel, and the effort needed to execute the steering operation is high, clean the priority valve (2).






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# TROUBLESHOOTING GUIDE

## FRONT AXLE

| **Wheel vibration; front tire resistance; half shaft breakage.** | |
|---|---|
| **CAUSES** | **REMEDY** |
| Incorrect installation | Correct installation. |
| Defective axle | Replace the differential if it fails any of the test phases. |
| Overloading incorrect weight distribution | Remove excessive weight and redistribute load following instructions related to the vehicle. |
| Different rotation radius of the tires | Replace the tire or adjust pressure to have the same radius on both tires. |
| Bent half shaft | Replace half shaft. |

| **No differential action; jamming while steering.** | |
|---|---|
| **CAUSES** | **REMEDY** |
| Incorrect installation | Correct installation. |
| Defective axle | Replace the differential if it fails any of the test phases. |
| Overloading incorrect weight distribution | Remove excessive weight and redistribute load following instructions related to the vehicle. |

| **Steering is difficult; vehicle goes straight while trying to turn it.** | |
|---|---|
| **CAUSES** | **REMEDY** |
| Incorrect installation | Correct installation. |
| Defective axle | Replace the differential if it fails any of the test phases. |
| Overloading/incorrect weight distribution | Remove excessive weight and redistribute load following instructions related to the vehicle. |
| Different rotation radius of the tires | Replace the tire or adjust pressure to have the same radius on both tires. |
| Broken half shaft | Replace half shaft. |

| **Excess noise** | |
|---|---|
| **CAUSES** | **REMEDY** |
| Incorrect installation | Correct installation. |
| Defective axle | Replace the differential if it fails any of the test phases. |
| Overloading/incorrect weight distribution | Remove excessive weight and redistribute load following instructions related to the vehicle. |
| Different rotation radius of the tires | Replace the tire or adjust pressure to have the same radius on both tires. |
| Bent or broken half shaft | Replace half shaft. |
| Incorrect wheel adjustment | Verify group integrity and wheel side bearings. |
| Contamination in the axle box or incorrect assembly of parts | Look for foreign particles. Check for proper assembly of the various parts of the axle. |



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# ELECTRICAL SCHEMATIC

## CONNECTOR DESCRIPTION

| NAME/ ITEM | DESCRIPTION | KUE P/N |
|---|---|---|
| A6 | FUNCTION MACHINE UNIT | |
| B13 | RETURN TO DIG SENSOR | |
| B59 | BRAKE OIL LOW LEVEL SWITCH | |
| B112 | THERMISTOR SWITCH | |
| B113 | AIR FILTER BLOCKED SWITCH | |
| B115 | ENGINE OIL LOW PRESSURE SWITCH | |
| B121 | HORN | |
| E136 | LATERAL RIGHT REAR WORKING LIGHT | |
| E138 | LATERAL LEFT REAR WORKING LIGHT | |
| E143 | LATERAL RIGHT FRONT WORKING LIGHT | |
| E146 | LATERAL LEFT FRONT WORKING LIGHT | |
| E147 | LEFT FRONT LIGHT | |
| E148 | BEACON LAMP | |
| E151 | RIGHT FRONT LIGHT | |
| E152 | ROOM LAMP | |
| F1 | CENTRAL FRONT WORKING LIGHT FUSE 15A | |
| F2 | CENTRAL REAR WORKING LIGHT FUSE 15A | |
| F3 | RIGHT POSITION LIGHT FUSE 3A | |
| F4 | LEFT POSITION LIGHT FUSE 3A | |
| F5 | HORN FUSE 10A | |
| F6 | LATERAL REAR WORKING LIGHT FUSE 15A | |
| F7 | WINDSHIELD WIPER - WASHER + REAR HORN FUSE 7.5A | |
| F8 | STOP LIGHT SWITCH FUSE 7.5A | |
| F9 | LATERAL FRONT WORKING LIGHT FUSE 15A | |
| F10 | FRONT WINDSHIELD - MOTOR SUPPLY FUSE 10A | |
| F11 | OPTIONAL FUSE 7.5A | |
| F12 | FRONT + LATERAL INSTRUMENTS + BUZZER FUSE 5A | |
| F13 | SUPPLY LEVEL GRIP FUSE 10A | |
| F14 | LIGHT SWITCH + SWITCH OPTIONAL FUSE 10A | |
| F15 | ELETTROSTOP + SAFETY STARTER FUSE 10A | |
| F16 | BEACON LIGHT FUSE 10A | |
| F17 | WARNING SWITCH FUSE 10A | |
| F18 | CABIN LAMP + CIGARETTE LIGHTER FUSE 10A | |
| F19 | LOW BEAM FUSE 15A | |
| F20 | MAIN BEAM LIGHT 15A | |
| F21 | RETURN TO DIG SENDER SUPPLY FUSE 10A | |
| F22 | EC POWER FUSE 7.5A | |
| F23 | +15 STEERING UNIT FUSE 10A | |
| F24 | FLASHER FUSE 7.5A | |
| F25 | REVERSE SPEED BUZZER + STEERING COLUMN 10A | |
| F27 | GENERAL FUSE 115A | |
| G1 | BATTERY | |
| G118 | STARTER MOTOR | |
| G119 | GENERATOR | |
| H17 | BUZZER | |
| K1 | UNREPEAT START UNIT | |
| K2 | FLASHER | |
| K3 | LOW BEAM RELAY | |
| K4 | MAIN BEAM RELAY | |
| K5 | FRONT HORN RELAY | |
| K6 | RETURN TO DIG SOLENOID VALVE RELAY | |
| K7 | LIGHT STOP RELAY | |
| K8 | ASSIST START RELAY | |
| K9 | FORWARD SPEED RELAY | |
| K10 | REVERSE SPEED RELAY | |
| K11 | STOP DRIVE RELAY | |
| K45 | PREHEATING RELAY | |
| K58 | STARTING RELAY | |
| K61 | BEPAGE RELAY | |
| M42 | REAR WINDSHIELD - WASHER | |
| M55 | MOTOR PUMP | |
| M58 | FRONT WINDSHIELD - WASHER | |
| M116 | COMPRESSOR ELECTRONIC CLUTCH | |
| R114 | PREHEATING | |
| S2 | SOLENOID VALVE E.C. POWER SWITCH | |
| S3 | LOCK CRAB SWITCH | |
| S4 | DECLUTCH SWITCH | |
| S5 | OPEN GRAB SWITCH | |
| S6 | DIFFERENTIAL LOCK SWITCH | |
| S24 | STARTING SWITCH | |
| S40 | SEATING SWITCH | |
| S41 | REAR HORN SWITCH | |

| NAME/ ITEM | DESCRIPTION | KUE P/N |
|---|---|---|
| S45 | PARKING BRAKE SWITCH | |
| S53 | STOP LIGHT SWITCH | |
| S54 | STOP 4WD SWITCH | |
| S57 | STEERING COLUMN GEAR SWITCH | |
| S60 | STEERING COLUMN LIGHT SWITCH | |
| S80 | RIDE CONTROL SWITCH | |
| S81 | ARM UNLOCK SWITCH | |
| S82 | PLATE UNLOCK SWITCH | |
| S83 | EC POWER SWITCH | |
| S84 | EMPI SOLENOID VALVE SWITCH | |
| S85 | REAR HORN SWITCH | |
| S86 | GENERAL LIGHT SWITCH | |
| S87 | 4WD SWITCH | |
| S88 | PPC SWITCH | |
| S89 | WARNING SWITCH | |
| S140 | REAR WORKING LIGHT SWITCH | |
| S141 | BEACON LIGHT SWITCH | |
| S142 | FRONT WORKING LIGHT SWITCH | |
| X30 | LIGHTS CIGARETTES | |
| Y48 | FLOAT SOLENOID VALVE | |
| Y49 | RETURN TO DIG SOLENOID VALVE | |
| Y60 | EMP SOLENOID VALVE | |
| Y117 | ELETTROSTOP | |
| X128.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X7.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X1.s | TO UNIT 0117082 CONNECTOR | |
| X10.p | TO FRONT DASHBOARD HARNESS CONNECTOR | |
| X11.p | TO CHASSIS HARNESS CONNECTOR | |
| X12.p | TO CHASSIS HARNESS CONNECTOR | |
| X15.p | TO OPTIONAL HARNESS CONNECTOR | |
| X2.s | TO UNIT 0117082 CONNECTOR | |
| X25.p | TO SWITCHES PANEL HARNESS CONNECTOR | |
| X26.p | TO SWITCHES PANEL HARNESS CONNECTOR | |
| X28.s | HEATING CONNECTOR | |
| X3.s | TO UNIT 0117082 CONNECTOR | |
| X4.s | TO UNIT 0117082 CONNECTOR | |
| X44.p | TO CABIN HARNESS CONNECTOR | |
| X5.s | TO UNIT 0117082 CONNECTOR | |
| X65.p | TO MOTOR HARNESS CONNECTOR | |
| X7.p | TO MOTOR HARNESS CONNECTOR | |
| X8.p | TO GEAR HARNESS CONNECTOR | |
| X9.p | TO FRONT DASHBOARD HARNESS CONNECTOR | |
| X25.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X26.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X10.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X9.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X44.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X27.s | A/C HARNESS CONNECTOR | |
| P43 | INSTRUMENTS PANEL | |
| P63 | FRONT CONTROL PANEL | |
| B97 | CLAXON | |
| B104 | 4TH GEAR SWITCH | |
| B105 | TRANSMISSION OIL TEMPERATURE SENSOR | |
| B107 | DECLUTCH TRANSMISSION | |
| B111 | FUEL LEVEL SENSOR | |
| E100 | RIGHT LAMP | |
| E101 | LEFT LAMP | |
| E103 | NUMBER PLATE LIGHT | |
| H92 | BACKUP ALARM | |
| Y91 | ECOPOWER SOLENOID VALVE | |
| Y94 | LOCK DIFFERENTIAL GEAR SOLENOID VALVE | |
| Y95 | UNLOCK ARM SOLENOID VALVE | |
| Y96 | PLATE UNLOCK SOLENOID VALVE | |
| Y106 | 4WS SOLENOID VALVE | |
| Y108 | FORWARD SOLENOID VALVE | |
| Y203 | REVERSE SPEED SOLENOID VALVE | |
| Y250 | R TO SOLENOID VALVE | |
| X26.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X8.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X11.s | TO DRIVER SITE HARNESS CONNECTOR | |
| X49.p | TO DRIVER SITE HARNESS CONNECTOR | |

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