CEBM019402

# Shop Manual

# WA430-6

## WHEEL LOADER

SERIAL NUMBERS **WA430-6** **A41001** and UP

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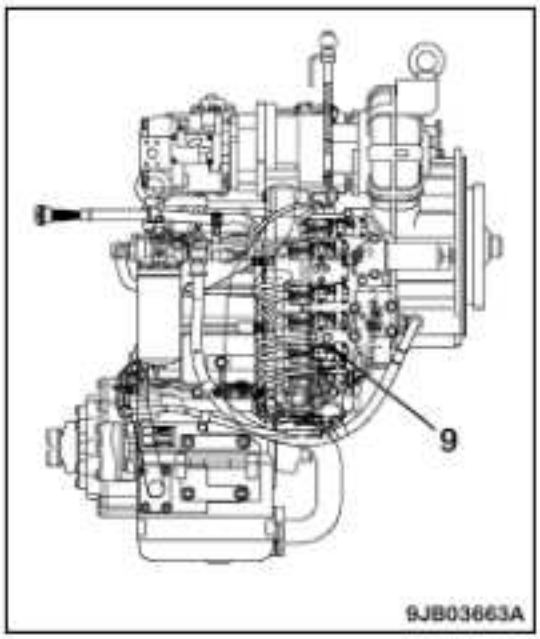
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## 3rd Clutch Pressure

1. Remove 3rd clutch pressure pickup plug (9) (10 x 1.25 mm) (0.40 x 0.05 in).




2. Connect nipple **K3** and oil pressure gauge [1] in hydraulic tester **K1**.

   ★ Use oil pressure gauge with capacity of 6.0 MPa (870.23 psi).




3. Set the transmission auto-shift and manual shift selector switch in the MANUAL position.
4. Press the brake pedal.
5. Start the engine and turn the parking brake switch OFF.
6. While keeping the directional lever or switch at the N (Neutral) position, set the gearshift lever in the 3rd position.
7. While pressing the brake pedal with the engine at low idle, set the directional lever or switch to the F (Forward) or R (Reverse) position once and then return it to N (Neutral) again.




**WARNING!** Keep pressing the brake pedal securely. The machine will move. Make sure that **nobody** is standing within the operating area of the machine.

   ★ If the directional lever or switch is in N (Neutral), the gear speed is not changed even if the gearshift lever is moved. To avoid this, perform the above operation.

8. While running the engine at 2,000 rpm, measure the 3rd clutch oil pressure.
9. After completing the measurement, remove the measurement tool and make sure that the machine is back to normal condition.



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# TROUBLESHOOTING POINTS

**WARNING!** Stop the machine in a level place, and check that the safety pin, blocks, and parking brake are securely fitted.

**WARNING!** When carrying out the operation with two or more workers, keep strictly to the agreed signals. Do not allow any unauthorized person to come near the machine.

**WARNING!** If the radiator cap is removed when the engine is hot, hot coolant may spurt out and cause burns. Wait for the engine to cool down before starting to troubleshoot.

**WARNING!** Be extremely careful not to touch any hot parts or to get caught in any rotating parts.

**WARNING!** When disconnecting wiring, always disconnect the negative (-) terminal of the battery first.

**WARNING!** When removing the plug or cap from a location which is under pressure from oil, coolant, or air, always release the internal pressure first. When installing measuring equipment, be sure to connect it properly.

The purpose of troubleshooting is to pinpoint the basic cause of the failure, to carry out repairs swiftly, and to prevent reoccurrence of the failure.

When carrying out troubleshooting, an important point is to understand the structure and function of the machine. However, a short cut to effective troubleshooting is to ask the operator various questions to form some idea of possible causes of the failure that would produce the reported symptoms.

1. When carrying out troubleshooting, do not hurry to disassemble the components. If components are disassembled immediately after a failure occurs:
   - Parts that have no connection with the failure or other unnecessary parts will be disassembled.
   - It will become impossible to find the cause of the failure.
   - It will waste man hours, parts, or oil and grease.
   - It can also result in a loss of confidence by the user or operator.

   For this reason, when carrying out troubleshooting, it is necessary to do a thorough investigation first and to carry out troubleshooting in accordance with the fixed procedure.

2. Points to ask the user or operator.

   A. Have any other problems occurred other than the problem that has been reported?

   B. Was there anything strange about the machine before the failure occurred?

   C. Did the failure occur suddenly, or were there problems with the machine before this?

   D. Under what conditions did the failure occur?

   E. Had any repairs been carried out before the failure? When were these repairs carried out?

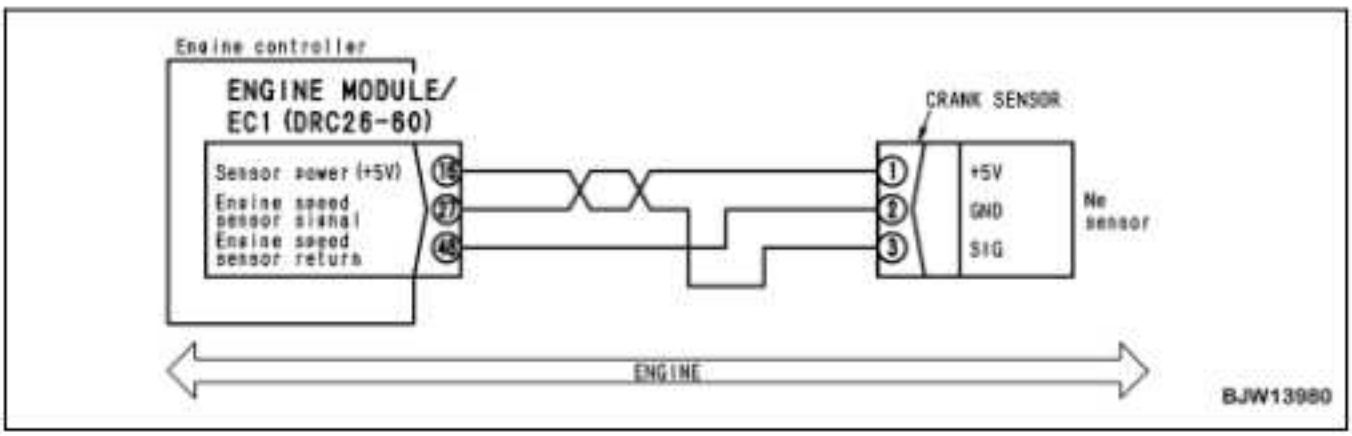
   F. Has the same kind of failure occurred before?



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| | Causes | | Standard value in normal state/Remarks on troubleshooting | | |
|---|---|---|---|---|---|
| Possible causes and standard value in normal state | 8 | Short circuit in wiring harness (with another wiring harness) | ★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. | | |
| | | | Wiring harness between EC1 (female) (27) – CRANK SENSOR (female) (3), EC1 (female) (16) – CRANK SENSOR (female) (1) | Resistance | Min. 100 kΩ |
| | | | Wiring harness between EC1 (female) (27) – CRANK SENSOR (female) (3), EC1 (female) (48) – CRANK SENSOR (female) (2) | Resistance | Min. 100 kΩ |
| | 9 | Defective wiring harness connector | Connecting parts among engine Ne speed sensor, engine wiring harness, and engine controller are suspected. Inspect them directly.<br>• Loose connector, broken lock, broken seal<br>• Corroded, bent, broken, forced-in, or extended pin<br>• Humidity in connector, entry of dirt or dust, poor insulation | | |
| | 10 | Defective engine controller | ★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting. | | |
| | | | EC1 | | Voltage |
| | | | Between (16) and (48) | Power supply | 4.75 – 5.25 V |

**Related Circuit Diagram**





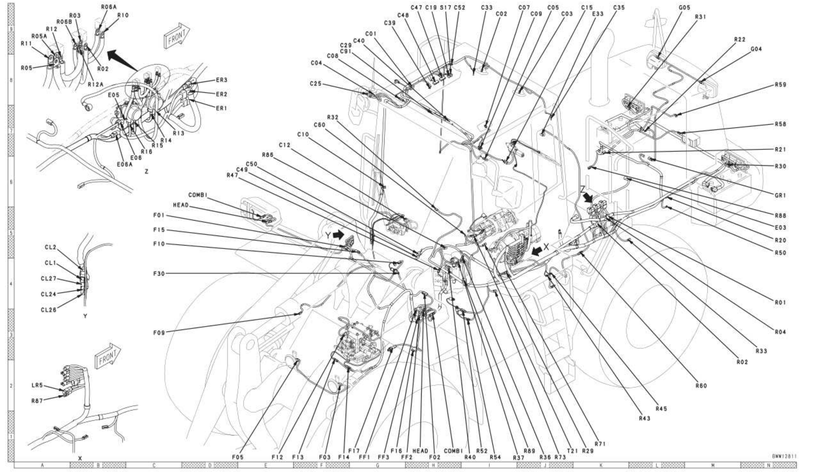

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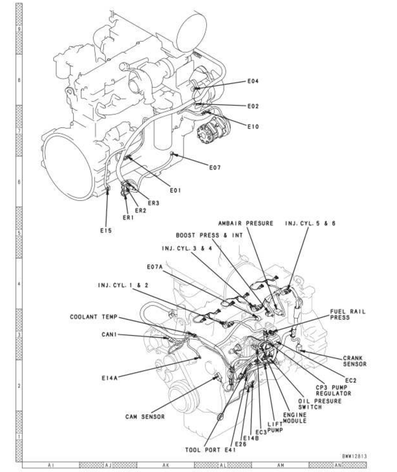
| Connector No. | Model | Number of pins | Component name | Address of stereogram |
|---|---|---|---|---|
| 1.PS | DT | 2 | 1st ECMV solenoid | AG-6 |
| 1.SW | DT | 2 | 1st ECMV fill switch | AG-6 |
| 2.PS | DT | 2 | 2nd ECMV solenoid | AG-6 |
| 2.SW | DT | 2 | 2nd ECMV fill switch | AF-5 |
| 3.PS | DT | 2 | 3rd ECMV solenoid | AF-1 |
| 3.SW | DT | 2 | 3rd ECMV fill switch | AF-1 |
| 4.PS | DT | 2 | 4th ECMV solenoid | AE-1 |
| 4.SW | DT | 2 | 4th ECMV fill switch | AE-1 |
| AL1 | DT | 6 | Intermediate connector (Air conditioner wiring harness) | S-1 |
| AMB AIR PRESURE | — | 3 | Ambient pressure sensor | AL-5 |
| BOOST PRESS & INT | — | 4 | Boost pressure sensor | AL-5 |
| C01 | YAZAKI | 9 | AM/FM radio | G-9 |
| C02 | M | 2 | Speaker, right | I-9 |
| C03 | M | 2 | Speaker, left | J-9 |
| C04 | DT-T | 2 | Front working lamp, right | F-8 |
| C05 | DT-T | 2 | Front working lamp, left | J-9 |
| C07 | KES1 | 2 | Room lamp | J-9 |
| C08 | M | 1 | Door switch, right | F-8 |
| C09 | M | 1 | Door switch, left | J-9 |
| C10 | YAZAKI | 2 | Cigarette lighter | F-7 |
| C12 | M | 6 | Front wiper motor | E-7 |
| C140 | DT-T | 4 | Tachograph (if equipped) | Z-5 |
| C141 | DT-T | 6 | Tachograph (if equipped) | Z-4 |
| C15 | M | 4 | Rear wiper motor | K-9 |
| C17 | SWP | 6 | Caution lamp, yellow rotary lamp (if equipped) | Q-5 |
| C18 | DT | 2 | Caution lamp (if equipped) | |
| C18A | M | 1 | Wiltemp | |
| C19 | SWP | 6 | Rear glass heater switch | H-9 |
| C21 | SWP | 6 | Caution lamp, rotary lamp (if equipped) | Q-5 |
| C22 | DT | 3 | Rotary lamp (if equipped) | |
| C25 | M | 4 | Intermediate connector (Caution lamp, rotary lamp) | F-8 |
| C29 | M | 1 | Intermediate connector | F-9 |
| C33 | (Terminal) | 1 | Rear glass heater | I-9 |
| C35 | (Terminal) | 1 | Rear glass heater | K-9 |
| C39 | (Terminal) | 1 | GND (Radio body) | G-9 |
| C40 | (Terminal) | 1 | GND() | G-9 |
| C41 | SWP | 6 | Fog lamp (if equipped) | Q-4 |
| C47 | (Terminal) | 1 | GND (Beacon) | |
| C47 | JAE IL-AG5 | 22 | Air conditioner controller | H-9 |
| C48 | JAE IL-AG5 | 14 | Air conditioner controller | G-9 |
| C49 | DT(2B) | 12 | Intermediate connector (Air conditioner controller) | E-6 |
| C50 | DT(2B) | 12 | Intermediate connector (Air conditioner controller) | E-6 |
| C52 | S | 3 | Multi-coupler switch (if equipped) | H-9 |
| C60 | AMP | 2 | Daylight sensor | F-7 |
| C61 | SHINAGAWA | 5 | Caution lamp, yellow rotary lamp relay (if equipped) | X-9 |
| C62 | JDOEVIA DENKI KOGYO | 5 | Caution lamp, rotary lamp relay (if equipped) | X-9 |
| C63 | JDOEVIA DENKI KOGYO | 6 | Caution lamp, rotary lamp relay (if equipped) | X-9 |
| C64 | SHINAGAWA | 6 | Fog lamp relay (if equipped) | X-9 |
| C65 | DT | 3 | Rotary lamp (if equipped) | |
| C91 | M | 1 | Intermediate connector (Warning lamp) | |
| CAM SENSOR | — | 3 | Bkup speed sensor | AK-1 |
| CAN1 | DT-T | 3 | Diode | AJ-3 |
| CAN2 | DT-T | 3 | CAN terminal resistor | Q-2 |
| CHK0 | X | 1 | KOMTRAX test connector | Y-8 |
| CHK1 | X | 1 | KOMTRAX test connector | X-8 |
| CL1 | SWP | 8 | Intermediate connector (Cab wiring harness) | A-4, O-6 |
| CL2 | SWP | 12 | Intermediate connector (Cab wiring harness) | A-5, O-7 |
| CL21 | SWP | 16 | Intermediate connector | O-7 |
| CL24 | X | 2 | Intermediate connector (Multi-coupler) | A-4 |
| CL26 | X | 2 | Intermediate connector (Cab wiring harness) | O-5 |
| CL28 | X | 2 | Intermediate connector | A-3 |
| CL27 | SWP | 6 | Wiper (if equipped) | A-4 |
| COMBI | DT-T | 3 | Combination lamp, right | D-6 |
| COMBI | DT-T | 3 | Combination lamp, left | H-1 |
| COOLANT TEMP | — | 2 | Engine coolant temperature sensor | AJ-3 |
| CPJ PUMP REGULATOR | — | 2 | Supply pump actuator | AN-2 |
| CRANK SENSOR | — | 3 | Ne speed sensor | AN-3 |
| D04 | DT-T | 2 | Diode | Z-4 |
| D05 | DT-T | 2 | Diode | W-1 |
| D06 | DT-T | 2 | Diode | Z-4 |
| D07 | DT-T | 2 | Diode | Z-4 |
| D08 | DT-T | 2 | Diode | W-1 |
| D09 | DT-T | 2 | Diode | W-2 |
| D11 | — | 11 | Diode unit | |
| D11 | DT-T | 2 | Diode | Z-3 |
| D12 | DT-T | 2 | Diode | Z-3 |
| DIODE | DT | 2 | Diode | AG-7 |
| E01 | DT-T | 2 | Starting motor | AK-6 |
| E02 | (Terminal) | 1 | Alternator R terminal | AL-7 |
| E03 | (Terminal) | 1 | Alternator B terminal | N-5 |
| E04 | (Terminal) | 1 | Alternator E terminal | AL-8 |
| E05 | (Terminal) | 1 | Heater relay | B-8 |
| E06 | (Terminal) | 1 | Heater relay | C-6 |
| E06A | DT-T | 2 | Diode | B-6 |
| E07 | (Terminal) | 1 | Heater relay | AL-6 |
| E07A | (Terminal) | 1 | Electrical intake air heater | AK-4 |
| E10 | DT-T | 2 | Air conditioner compressor magnet clutch | AL-7 |
| E14A | (Terminal) | 1 | GND (Engine) | AJ-2 |
| E14B | (Terminal) | 1 | GND (Engine) | AL-1 |
| E15 | (Terminal) | 1 | GND (Alternator) | AJ-5 |
| E26 | DT-T | 2 | Engine oil level sensor | AL-1 |
| E33 | DT-T | 2 | Dust indicator | K-9 |
| E41 | DT-T | 2 | Intermediate connector (Engine controller) | AL-1 |
| EC2 | DRC26 | 50 | Engine controller | AN-1 |
| EC3 | DTP | 4 | Engine controller | AM-1 |
| ENGINE MODULE | DRC26 | 60 | Engine controller | AM-1 |
| ER1 | DT-T | 8 | Intermediate connector (Engine controller) | D-7, AJ-5 |
| ER2 | DT-T | 12 | Intermediate connector (Engine controller) | D-8, AK-5 |
| ER3 | L | 2 | Intermediate connector (Engine controller) | D-8, AK-5 |
| F.PS | DT | 2 | F (Forward) ECMV solenoid | AE-2 |
| F.SW | DT | 2 | F (Forward) ECMV fill switch | AE-1 |

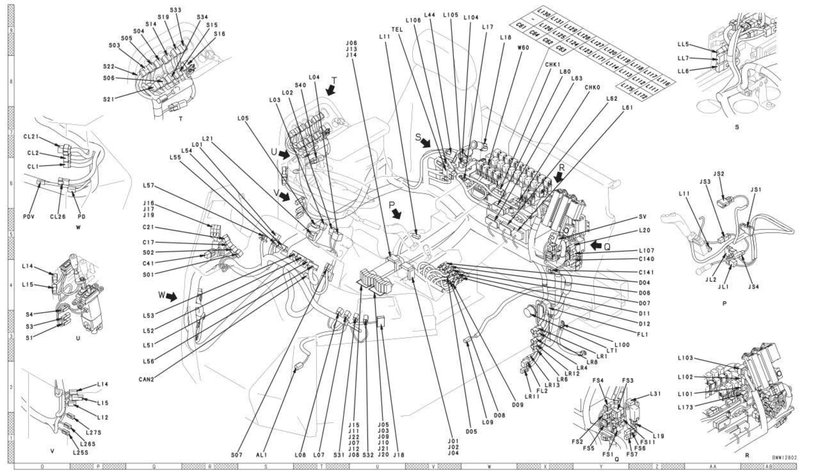
| Connector No. | Model | Number of pins | Component name | Address of stereogram |
|---|---|---|---|---|
| F01 | DT-T | 6 | Intermediate connector (headlamp, right) | C-5 |
| F02 | DT-T | 6 | Intermediate connector (Headlamp, left) | H-1 |
| F03 | 090II | 2 | Horn, Hi | F-1 |
| F05 | 090II | 2 | Horn, Lo | E-1 |
| F09 | DT-T | 3 | Bucket proximity switch | C-3 |
| F10 | DT-T | 3 | Boom proximity switch | C-5 |
| F12 | DT-T | 3 | Work equipment pump pressure sensor | E-1 |
| F13 | DT-T | 2 | E.C.S.S. solenoid | F-1 |
| F14 | DT-T | 2 | E.C.S.S. cut-off switch | F-1 |
| F15 | DT-T | 2 | Boom potentiometer | C-5 |
| F16 | DT-T | 3 | Boom bottom pressure sensor | G-1 |
| F17 | DT-T | 3 | Boom head pressure sensor | G-1 |
| F18 | DT2 | 2 | Lift arm neutral lock potentiometer (Lift arm/bucket EPC specification) (if equipped) | |
| F19 | DT2 | 2 | Bucket potentiometer (Lift arm/bucket EPC specification) (if equipped) | |
| F20 | DT2 | 2 | Lift arm raise EPC (Lift arm/bucket EPC specification) (if equipped) | |
| F21 | DT2 | 2 | Lift arm lower EPC (Lift arm/bucket EPC specification) (if equipped) | |
| F22 | DT2 | 2 | Bucket tilt EPC (Lift arm/bucket EPC specification) (if equipped) | |
| F23 | DT2 | 2 | Bucket dump EPC (Lift arm/bucket EPC specification) (if equipped) | |
| F24 | DT2 | 2 | 3-spool valve (Attachment) extension EPC (Lift arm/bucket EPC specification) (if equipped) | |
| F25 | DT2 | 2 | 3-spool valve (Attachment) retraction EPC (Lift arm/bucket EPC specification) (if equipped) | |
| F26 | DT2 | 2 | Lift arm EPC cut-off solenoid (Lift arm/bucket EPC specification) (if equipped) | |
| F30 | (Terminal) | 1 | GND (Front frame) | C-4 |
| F30 | (Terminal) | 1 | GND (Front frame) | |
| F31 | DT-T | 2 | Multi-coupler extension solenoid | |
| F32 | DT-T | 2 | Diode | |
| F33 | DT-T | 2 | Multi-coupler retraction solenoid | |
| F34 | DT-T | 2 | Diode | |
| F35 | (Terminal) | 1 | Fog lamp, right (if equipped) | |
| F35A | (Terminal) | 1 | Fog lamp (right) (if equipped) | |
| F36 | (Terminal) | 1 | Fog lamp, left (if equipped) | |
| F36A | (Terminal) | 1 | Fog lamp (left) (if equipped) | |
| FF1 | DT-T | 12 | Intermediate wiring harness (Front wiring harness – rear wiring harness) | G-1 |
| FF2 | DT-T | 8 | Intermediate wiring harness (Front wiring harness – rear wiring harness) | H-1 |
| FF3 | DT-T | 6 | Intermediate wiring harness (Front wiring harness – rear wiring harness) | G-1 |
| FL1 | DRC12 | 70 | Intermediate connector (Floor wiring harness – rear wiring harness) | Z-3 |
| FL2 | DT-T | 8 | Intermediate connector (Floor wiring harness – rear wiring harness) | X-2 |
| FL7 | DT2(Bl) | 8 | Intermediate connector (Lift arm EPC) (Joystick steering specification) (if equipped) | |
| FL8 | DT2(G) | 8 | Intermediate connector (Lift arm EPC) (Joystick steering specification) (if equipped) | |
| FL9 | DT2 | 4 | Intermediate connector (3-spool valve) (Attachment EPC) (Joystick steering specification) (if equipped) | |
| FS1 | L | 2 | Intermediate connector (Fuse box B) | Y-1 |
| FS11 | X | 3 | Intermediate connector (Fuse box B) | Z-1 |
| FS2 | L | 2 | Intermediate connector (Fuse box A) | Y-1 |
| FS3 | SWP | 16 | Intermediate connector (Fuse box B) | Y-2 |
| FS4 | SWP | 12 | Intermediate connector (Fuse box A) | Y-2 |
| FS5 | SWP | 6 | Intermediate connector (Fuse box A) | Y-1 |
| FS6 | X | 1 | Intermediate connector (Fuse box B) | Z-1 |
| FS7 | X | 1 | Intermediate connector (Fuse box B) | Z-1 |
| FUEL RAIL PRESS | — | 3 | Common rail pressure sensor | AN-3 |
| G04 | DT-T | 2 | Left rear working lamp | N-9 |
| G05 | DT-T | 2 | Right rear working lamp | L-9 |
| GR1 | DT-T | 8 | Intermediate connector (Rear working lamp) | N-6 |
| HEAD | DT-T | 3 | Headlamp, right | D-6 |
| HEAD | DT-T | 3 | Headlamp, left | H-1 |
| INJ. CYL. 1&2 | — | 4 | Injectors #1 & #2 | AJ-4 |
| INJ. CYL. 3&4 | — | 4 | Injectors #3 & #4 | AK-5 |
| INJ. CYL. 5&6 | — | 4 | Injectors #5 & #6 | AM-5 |
| J01 | M6409-0073 | 20 | Junction connector | V-1 |
| J02 | M6409-0073 | 20 | Junction connector | U-1 |
| J03 | M6409-0071 | 20 | Junction connector | U-1 |
| J04 | M6440-0128 | 20 | Junction connector | V-1 |
| J05 | M6409-0075 | 20 | Junction connector | U-1 |
| J06 | M6409-0603 | 20 | Junction connector | U-9 |
| J07 | M6409-0603 | 20 | Junction connector | U-1 |
| J08 | M6409-0071 | 20 | Junction connector | U-1 |
| J09 | M6440-0128 | 20 | Junction connector | U-1 |
| J10 | M6409-0075 | 20 | Junction connector | U-1 |
| J11 | M6409-0075 | 20 | Junction connector | U-1 |
| J12 | M6409-0603 | 20 | Junction connector | U-1 |
| J13 | M6409-0073 | 20 | Junction connector | U-9 |
| J14 | M6409-0075 | 20 | Junction connector | U-9 |
| J15 | M6409-0603 | 20 | Junction connector | U-1 |
| J16 | M6409-0075 | 20 | Junction connector | Q-6 |
| J17 | M6440-0128 | 20 | Junction connector | Q-6 |
| J18 | M6409-0075 | 20 | Junction connector | U-1 |
| J19 | M6409-0603 | 20 | Junction connector | Q-5 |
| J20 | M6409-0603 | 20 | Junction connector | U-1 |
| J21 | M6409-0075 | 20 | Junction connector | U-1 |
| J22 | M6409-0071 | 20 | Junction connector | |
| J41 | M6409-0128 | 20 | Junction connector (Joystick steering specification) (if equipped) | |
| J42 | M6409-0128 | 20 | Junction connector (Joystick steering specification) (if equipped) | |
| J44 | M6409-0071 | 20 | Junction connector (Joystick steering specification) (if equipped) | |
| J45 | DT2(B) | 8 | Junction connector (Joystick steering specification) (if equipped) | |
| J46 | DT2 | 6 | Junction connector (Joystick steering specification) (if equipped) | |
| JL1 | DT2(Gr) | 8 | Junction connector (Joystick steering specification) (if equipped) | AA-4 |
| JL2 | DTM | 12 | Joystick lever switch | AA-4 |
| JS1 | SWP | 6 | Joystick ON/OFF switch | AB-6 |
| JS2 | SWP | 6 | Steering speed mode switch | AA-6 |
| JS3 | DT2 | 4 | Joystick lever potentiometer | AA-6 |
| JS4 | DT2 | 2 | Joystick neutral lock switch | AB-4 |
| JT1 | DT | 8 | Junction connector | AF-5 |

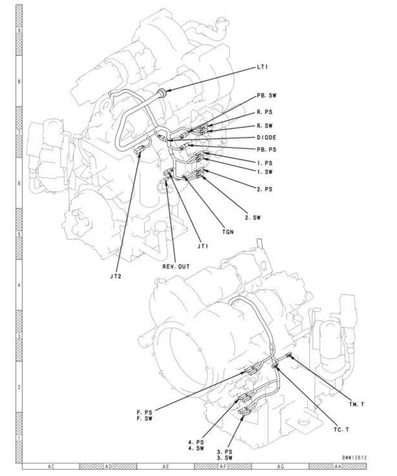
| Connector No. | Model | Number of pins | Component name | Address of stereogram |
|---|---|---|---|---|
| JT2 | DT | 6 | Junction connector | AD-4 |
| L01 | SWP | 6 | Parking brake switch | R-7 |
| L02 | SWP | 6 | Lighting switch | S-8 |
| L03 | SWP | 6 | Turn & Hazard switch | S-8 |
| L04 | SWP | 14 | Intermediate connector (Shift switch) | T-8 |
| L05 | DT-T | 2 | Steering wheel horn switch | S-7 |
| L07 | SWP | 6 | Machine monitor mode selector switch 1 | T-1 |
| L08 | SWP | 6 | Machine monitor mode selector switch 2 | T-1 |
| L09 | DT-T | 2 | Stop lamp switch | W-1 |
| L11 | DT-T | 2 | Intermediate connector (Air suspension seat) | U-9, AA-6 |
| L12 | DT-T | 4 | Right FNR (Directional) switch or multi-function lever (if equipped) | P-1 |
| L13 | DT2 | 2 | Lift arm neutral lock switch (joystick steering specification) (if equipped) | |
| L14 | DT-T | 4 | Lift arm kick-down & hold switch or multi-function lever (if equipped) | O-4, P-2 |
| L15 | DT-T | 4 | Bucket level (Load meter specification) (if equipped) | O-4, P-2 |
| L17 | M | 4 | DC24V/DC12V converter | W-9 |
| L18 | YAZAKI | 2 | 12VDC socket | W-9 |
| L19 | M | 4 | Flasher unit | Z-1 |
| L20 | M | 2 | Caution buzzer | Z-5 |
| L21 | S | 10 | Intermediate connector (Front/Rear wiper switch) | R-7 |
| L26E | DT2 | 2 | Bucket dump detent solenoid (Joystick steering specification) (if equipped) | |
| L26S | DT-T | 2 | Electrical detent PPC valve | P-1 |
| L26E | DT2 | 2 | Lift arm raise detent solenoid (Joystick steering specification) (if equipped) | |
| L26S | DT-T | 2 | Electrical detent PPC valve | P-1 |
| L27 | DT2 | 2 | Lift arm lower detent solenoid (Joystick steering specification) (if equipped) | |
| L27S | DT-T | 2 | Electrical detent PPC valve | P-1 |
| L28 | DT2 | 4 | Lift arm EPC lever (Joystick steering specification9 (if equipped) | |
| L29 | DT2 | 4 | Bucket EPC lever (Joystick steering specification9 (if equipped) | |
| L30 | DT2 | 4 | 3-spool valve (Attachment) EPC lever (Joystick steering specification) (if equipped) | |
| L31 | M | 6 | Interval wiper timer | Z-2 |
| L34 | DT2 | 4 | Joystick steering potentiometer (Joystick steering specification) (if equipped) | |
| L35 | DT2 | 2 | Joystick steering right EPC (Joystick steering specification) (if equipped) | |
| L36 | DT2 | 2 | Joystick steering left EPC (Joystick steering specification) (if equipped) | |
| L36A | DT | 4 | Intermediate connector (Joystick steering EPC) (Joystick steering specification) (if equipped) | |
| L37 | DTM | 12 | Joystick steering lever switch (Joystick steering specification) (if equipped) | |
| L38 | DT2 | 3 | Joystick steering neutral lock switch (Joystick steering specification) (if equipped) | |
| L39 | DT2 | 6 | Joystick steering ON/OFF switch (Joystick steering specification) (if equipped) | |
| L40 | DT2 | 6 | Joystick steering speed mode switch (Joystick steering specification) (if equipped) | |
| L41 | JDOSYA DENKI KOGYO | 6 | Joystick steering cut-off relay (Joystick steering specification) (if equipped) | |
| L44 | M | 6 | Intermediate connector (Load meter printer wiring harness) | V-9 |
| L45 | D-sub25 | 25 | Printer | |
| L46 | HOSHIDEN | 4 | Printer | |
| L51 | AMP 070 | 20 | Machine monitor | Q-3 |
| L52 | AMP 070 | 18 | Machine monitor | Q-3 |
| L53 | AMP 070 | 12 | Machine monitor | Q-3 |
| L54 | AMP 070 | 18 | Machine monitor | R-7 |
| L55 | AMP 070 | 12 | Machine monitor | Q-6 |
| L56 | AMP 070 | 12 | Machine monitor | Q-3 |
| L57 | AMP 070 | 14 | Machine monitor | Q-6 |
| L61 | DRC26 | 24 | Transmission controller | Y-7 |
| L62 | DRC26 | 40 | Transmission controller | Y-8 |
| L63 | DRC26 | 40 | Transmission controller | Y-8 |
| L71 | DRC26 | 24 | Work equipment controller (Joystick steering specification) (if equipped) | |
| L72 | DRC26 | 40 | Work equipment controller (Joystick steering specification) (if equipped) | |
| L73 | DRC26 | 40 | Work equipment controller (Joystick steering specification) (if equipped) | |
| L80 | DRC26 | 40 | KOMTRAX controller | |
| L100 | (Terminal) | 1 | GND (Floor) | Y-3 |
| L101 | SWP | 16 | Intermediate connector (Relay) | Z-2 |
| L102 | SWP | 16 | Intermediate connector (Relay) | Z-2 |
| L103 | SWP | 16 | Intermediate connector (Relay) | Z-3 |
| L104 | SWP | 16 | Intermediate connector (Relay) | W-9 |
| L105 | SWP | 12 | Intermediate connector (Relay) | V-9 |
| L106 | SWP | 16 | Intermediate connector (Relay) | V-9 |
| L107 | SWP | 12 | Intermediate connector (Wiper timer) | Z-5 |
| L111 | YAZAKI | 5 | Relay No. 1 winker & hazard | Z-8 |
| L112 | YAZAKI | 5 | Relay No. 2 air cleaner clock (if equipped) | Z-8 |
| L113 | YAZAKI | 5 | Relay No. 3, joystick safety relay | Y-8 |
| L114 | YAZAKI | 5 | Relay No. 4, fog lamp (1) | Y-8 |
| L116 | YAZAKI | 5 | Relay No. 6, neutral safety | Z-8 |
| L117 | YAZAKI | 5 | Relay No. 7, backup lamp | Z-8 |
| L118 | YAZAKI | 5 | Relay No. 8, stop lamp | Z-8 |
| L119 | YAZAKI | 5 | Relay No. 9, horn | Y-8 |
| L120 | YAZAKI | 5 | Relay No. 10, parking brake | Y-9 |
| L123 | YAZAKI | 5 | Relay No. 3, boom detent | Y-9 |
| L124 | YAZAKI | 5 | Relay No. 4, bucket detent | Y-9 |
| L125 | YAZAKI | 5 | Relay No. 5, boom detent alternate | X-9 |
| L126 | YAZAKI | 5 | Relay No. 6, emergency steering | X-9 |
| L127 | YAZAKI | 5 | Relay No. 7, front working lamp | Y-9 |
| L128 | YAZAKI | 5 | Relay No. 8, rear working lamp | Y-9 |
| L129 | YAZAKI | 5 | Relay No. 9, rear glass with heater | X-9 |
| L130 | YAZAKI | 5 | Relay No. 10, transmission bypass | X-9 |
| L131 | YAZAKI | 5 | Relay No. 11, headlamp | X-9 |
| L141 | JDOSYA DENKI KOGYO | 5 | Front washing relay | |
| L142 | DT | 2 | Diode | |
| L143 | DT | 2 | Diode | |
| L144 | DT | 2 | Diode | |
| L145 | DT | 2 | Diode | |
| L146 | DT | 2 | Diode | |
| L147 | DT | 2 | Diode | |
| L171 | YAZAKI | 5 | Engine controller cut relay | Y-8 |
| L172 | YAZAKI | 5 | Engine controller cut relay | Z-8 |
| L173 | X | 4 | Intermediate connector (Relay) | Z-2 |

| Connector No. | Model | Number of pins | Component name | Address of stereogram |
|---|---|---|---|---|
| L175 | YAZAKI | 6 | Brake oil pressure caution, emergency brake relay | Y-8 |
| LIFT PUMP | — | 2 | Fuel lift pump | AM-1 |
| LL5 | DT-T | 3 | Intermediate connector (Work equipment controller) | Z-9 |
| LL6 | DT-T | 12 | Intermediate connector (Work equipment controller) | Z-8 |
| LL7 | DT-T | 12 | Intermediate connector (Work equipment controller) | Z-8 |
| LL8 | DT2(Gr) | 8 | Intermediate connector (Joystick steering specification) (if equipped) | |
| LR1 | DTHD | 1 | Intermediate connector (Floor wiring harness – rear wiring harness) | Y-3 |
| LR11 | DT-T | 2 | Intermediate connector (Floor wiring harness – rear wiring harness) | X-2 |
| LR12 | DTHD | 1 | Intermediate connector (Floor wiring harness – rear wiring harness) | X-2 |
| LR13 | DT-T | 2 | Intermediate connector (Pump bypass solenoid) (if equipped) | X-2 |
| LR2 | DT | 2 | Intermediate connector (Multi-coupler solenoid) | |
| LR3 | DT | 1 | Intermediate connector | |
| LR4 | DTHD | 1 | Intermediate connector (Floor wiring harness – rear wiring harness) | Y-2 |
| LR5 | DT-T | 6 | Intermediate connector (Auto grease wiring harness) (if equipped) | A-2 |
| LR6 | DTHD | 1 | Intermediate connector (Floor wiring harness – rear wiring harness) | X-2 |
| LR8 | DTHD | 1 | Intermediate connector (Floor wiring harness – rear wiring harness) | Y-2 |
| LT1 | HD30 | 31 | Intermediate connector (Transmission wiring harness) | Y-3, AG-8 |
| MLT | DTM | 12 | Multi-function lever switch (if equipped) | |
| OILPRESSIRE SWITCH | (Terminal) | 1 | Engine oil pressure switch, Lo | AM-2 |
| PB.PS | DT | 2 | Parking brake solenoid | AG-7 |
| PB.SW | DT | 2 | Parking brake indicator switch | AG-8 |
| PD | DT-T | 6 | Idle validation switch | P-5 |
| PDV | — | 2 | Accelerator pedal | O-5 |
| R.PS | DT | 2 | R (Reverse) ECMV solenoid | AG-7 |
| R.SW | DT | 2 | R (Reverse) ECMV fill switch | AG-7 |
| R01 | (Terminal) | 1 | Battery relay | N-4 |
| R02 | (Terminal) | 1 | Slow blow fuse | B-8 |
| R02 | (Terminal) | 1 | Emergency steering relay | N-2 |
| R03 | (Terminal) | 1 | Slow blow fuse | B-9 |
| R04 | (Terminal) | 1 | Battery relay | N-3 |
| R05 | (Terminal) | 1 | Slow blow fuse | A-8 |
| R05A | (Terminal) | 1 | Slow blow fuse | A-9 |
| R06A | (Terminal) | 1 | Slow blow fuse | B-9 |
| R06B | (Terminal) | 1 | Slow blow fuse | A-9 |
| R10 | (Terminal) | 1 | Slow blow fuse | B-9 |
| R11 | (Terminal) | 1 | Slow blow fuse | A-9 |
| R12 | (Terminal) | 1 | Slow blow fuse | A-9 |
| R12A | (Terminal) | 1 | Slow blow fuse | B-8 |
| R13 | (Terminal) | 1 | Emergency steering relay | C-7 |
| R14 | (Terminal) | 1 | Emergency steering relay | C-7 |
| R15 | (Terminal) | 1 | Battery relay | C-7 |
| R16 | (Terminal) | 1 | Battery relay | C-7 |
| R20 | DT-T | 6 | Intermediate connector (Rear combination lamp, left) | N-5 |
| R21 | DT-T | 6 | Intermediate connector (Rear combination lamp, right) | N-7 |
| R22 | (Terminal) | 1 | GND | M-9 |
| R29 | DT-T | 2 | Hydraulic fan EPC | K-1 |
| R30 | DT-T | 6 | Rear combination lamp, left | N-6 |
| R31 | DT | 6 | Rear combination lamp, right | M-9 |
| R32 | DT-T | 2 | Coolant level sensor | N-7 |
| R33 | DT-T | 2 | Fuel level sensor | N-3 |
| R36 | DT-T | 2 | Pressure switch (Steering pump) | I-1 |
| R37 | DT-T | 2 | Pressure switch (Emergency steering) | J-1 |
| R38 | DT | 6 | Auto grease controller | |
| R40 | X | 2 | Pressure switch (Steering pump) | I-1 |
| R43 | KES1 | 2 | Front windshield washer | L-1 |
| R45 | KES1 | 2 | Rear windshield washer | L-2 |
| R47 | DT-T | 2 | Hydraulic oil temperature sensor | D-6 |
| R50 | (Terminal) | 1 | GND (Rear frame) | N-5 |
| R52 | DT-T | 2 | Emergency brake switch | I-1 |
| R54 | DT-T | 2 | Rear brake pressure switch | I-1 |
| R58 | DT-T | 2 | Backup buzzer | N-7 |
| R59 | DT-T | 2 | Fan reverse solenoid | N-8 |
| R60 | DT-T | 2 | Rear brake oil temperature sensor | M-2 |
| R71 | DT-T | 2 | Loader pump EPC | K-1 |
| R73 | DT-T | 3 | Brake oil pressure sensor (For transmission cut-off) | J-1 |
| R86 | DT-T | 3 | Steering pump pressure sensor | E-6 |
| R87 | DT | 2 | Intermediate connector | A-2 |
| R88 | DT-T | 2 | Water-in-fuel sensor | N-5 |
| R89 | DT-T | 12 | Intermediate connector | J-1 |
| REV OUT | DT | 2 | Speed sensor | AE-4 |
| S1 | DT-T | 2 | Electric detent PPC valve | O-3 |
| S01 | SWP | 6 | Front working lamp | Q-4 |
| S02 | SWP | 6 | Rear working lamp | Q-5 |
| S03 | SWP | 6 | Transmission cut-off switch | P-9 |
| S04 | SWP | 6 | FNR selector switch | Q-9 |
| S05 | SWP | 6 | Transmission cut-off set switch | Q-9 |
| S06 | SWP | 6 | Torque converter lockup ON/OFF switch | P-8 |
| S07 | SWP | 6 | E.C.S.S. switch | S-1 |
| S14 | SWP | 6 | Upper and lower section remote position ON/OFF switch | Q-9 |
| S15 | SWP | 6 | Automatic digging switch | R-9 |
| S16 | SWP | 6 | Hydraulic fan selector switch | R-9 |
| S17 | SWP | 6 | Auto grease switch (if equipped) | H-9 |
| S19 | SWP | 6 | Emergency steering check switch | Q-9 |
| S21 | SWP | 6 | Engine power mode switch | P-8 |
| S22 | DT-T | 4 | Auto-shift mode switch | P-8 |
| S3 | DT-T | 2 | Electric detent PPC valve | O-3 |
| S31 | SWP | 6 | Load meter mode selector switch (if equipped) | U-1 |
| S32 | SWP | 6 | Load meter display selection (if equipped) | U-1 |
| S33 | SWP | 6 | Remote positioner bucket raise/lower (if equipped) | Q-9 |
| S34 | SWP | 6 | 2-stage idle function switch | R-9 |
| S4 | DT-T | 2 | Electric detent PPC valve | O-3 |
| S40 | DT | 4 | Starting motor switch | T-8 |
| SV | DT-T | 12 | KOM-NET (CAN) SV connector | Z-5 |
| T21 | DT | 2 | Pump bypass solenoid (if equipped) | J-1 |
| TC.T | DT | 2 | Torque converter oil temperature sensor (Monitor) | AH-1 |
| TEL | DT-T | 12 | Intermediate connector (KOMTRAX) | U-9 |
| TGN | (Terminal) | 1 | GND (Transmission body) | AF-5 |
| TM.T | DT | 2 | Transmission lubricating oil temperature sensor | AH-2 |
| TOOL PORT | — | 3 | CAN | AL-1 |
| W60 | SHINAGAWA | 5 | KOMTRAX engine cut relay | X-8 |








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