SEN02211-08

Shop Manual

WHEEL LOADER

WA600-6R

SERIAL NUMBERS 65001 and up

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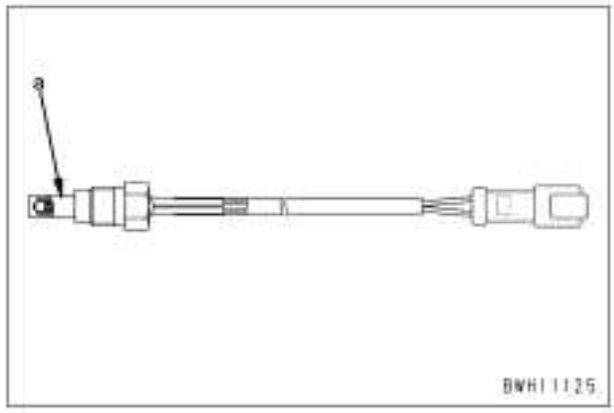
Atmospheric temperature sensor

Specifications

1. Power consumption: Max. 0.5 mW
2. Withstand pressure: 0.98 MPa {10 kg/cm^2}
3. Temperature detection range (ambient): –30°C to 120°C
4. Temperature conservation range: –50°C to 140°C
5. Performance table

Detected temperature (°C)	–20	–10	0	10	20	50
Resistance (kΩ)	30.32	18.58	11.74	7.623	5.077	1.712

a: Sensor heat sensitizing portion mount diameter 16 × 1.5



Function

This sensor inputs the atmospheric temperature to the VHMS controller as a variation of the thermistor resistance.

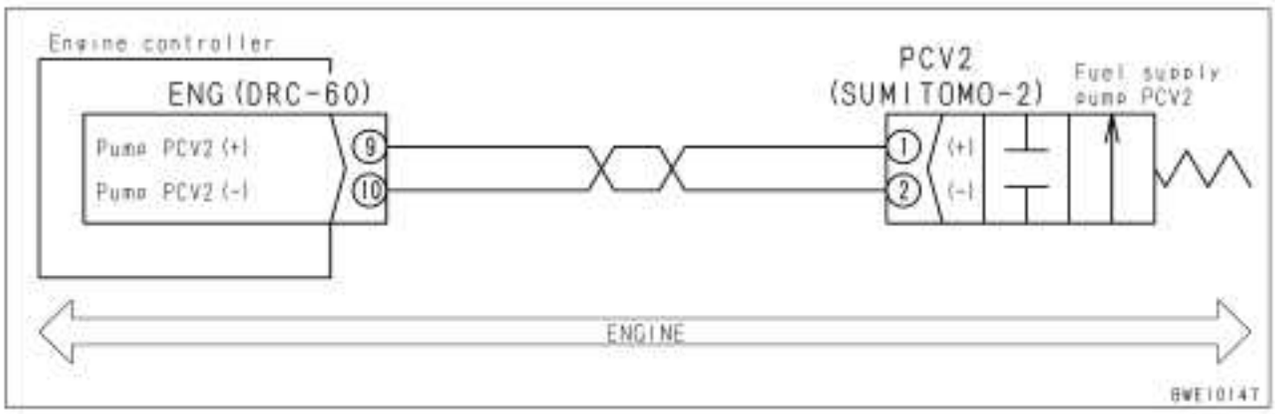
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Failure code [CA274] (PCV2 Disconnection)

Action code	Failure code	Trouble	PCV2 disconnection (Engine controller system)
E03	CA274		
Contents of trouble	• Disconnection was detected in supply pump PCV2 circuit.		
Action of controller	• Turns the centralized warning lamp and alarm buzzer ON.		
Problem that appears on machine			
Related information	• Method of reproducing failure code: Turn the starting switch ON. • While engine is running, **pulse** voltage of about 24 V is applied to PCV2 (1) (if normal) and it cannot be measured with circuit tester.		

	Cause		Standard value in normal state/Remarks on troubleshooting			
Possible causes and standard value in normal state	1	Defective supply pump PCV2 (Internal disconnection)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			PCV2 (male)	Resistance		
			Between (1) and (2)	2.3 – 5.3 Ω		
	2	Disconnection in wiring harness (Disconnection or defective contact of connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Wiring harness between ENG (female) (9) – PCV2 (female) (1)	Resistance	Max. 1 Ω	
			Wiring harness between ENG (female) (10) – PCV2 (female) (2)	Resistance	Max. 1 Ω	
	3	Grounding fault in wiring harness (Contact with ground circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			Wiring harness between ENG (female) (9) – PCV2 (female) (1) and chassis ground	Resistance	Min. 1 MΩ	
			Wiring harness between ENG (female) (10) – PCV2 (female) (2) and chassis ground	Resistance	Min. 1 MΩ	
	4	Defective engine controller	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.			
			ENG (female)	Resistance		
			Between (9) and (10)	2.3 – 5.3 Ω		
			Between (9), (10) and chassis ground	Min. 1 MΩ		

Circuit diagram related to supply pump PCV2



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S-10 Fuel consumption is excessive

General causes why fuel consumption is excessive
- Leakage of fuel
- Fuel injection condition (fuel pressure and injection timing) not normal
- Excessive fuel injection

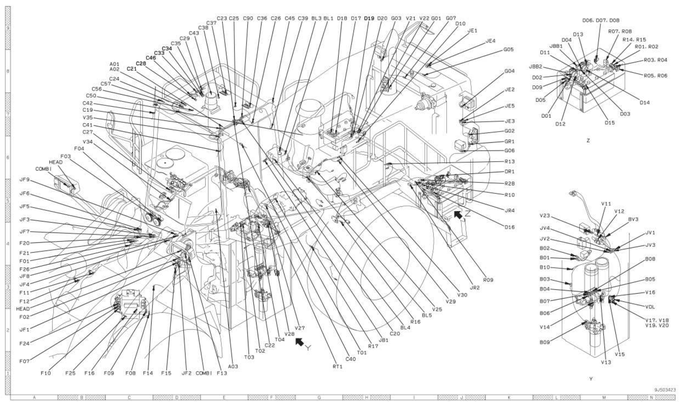
			Cause							
			Leakage of fuel inside head cover	Fuel leakage from fuel filter, piping, etc.	Defective feed pump oil seal	Defective supply pump plunger	Defective common rail fuel pressure	Defective injector spray	Defective injector operation	Defective coolant temperature sensor or defective wiring harness
Questions	Confirm recent repair history									
	Degree of use of machine	Operated for long period			△	△		△		
	Condition of fuel consumption	More than for other machines of same model					○		○	○
		Gradually increased				○		○		
		Suddenly increased	○	○						
Check items	Fuel leakage to outside			○						
	There is irregular combustion							○		
	Oil increasing, smelling of diesel oil		○		○					
	When exhaust manifold is touched immediately after starting engine, temperature of some cylinders is low							○	○	
	Low idle speed is too high								○	
	Torque converter stall or hydraulic pump relief speed is high								○	
	Color of exhaust gas	Black					○	○		○
		White	○							
Troubleshooting	Remove head cover and inspect directly		●							
	Inspect feed pump oil seal directly				●					
	Carry out troubleshoot by "Rail Press Very Low Error (*1)"					●				
	Speed of some cylinders does not change when operated in reduced cylinder mode							●	●	
	Spill flow is excessive when spill hose is separated from injector								●	
	Carry out troubleshoot by "Coolant Temp Sensor Error (*2)"									●
		Remedy	Correct	Correct	Replace	Replace	Replace	Replace	Replace	Correct

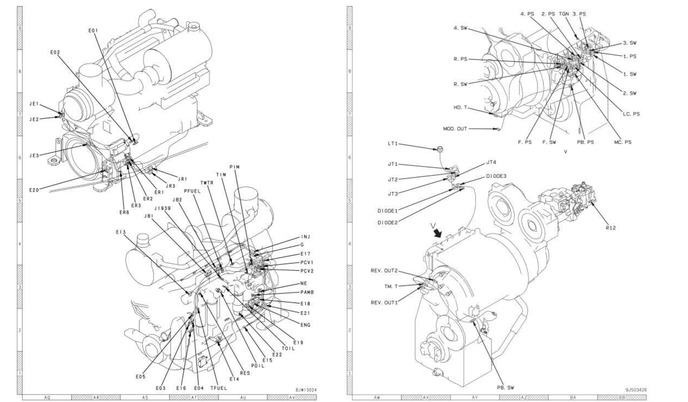
*1: Troubleshooting by failure code (Display of code), Code [**CA559**], and Code [**CA2249**]
*2: Troubleshooting by failure code (Display of code), Code [**CA144**], and Code [**CA145**]

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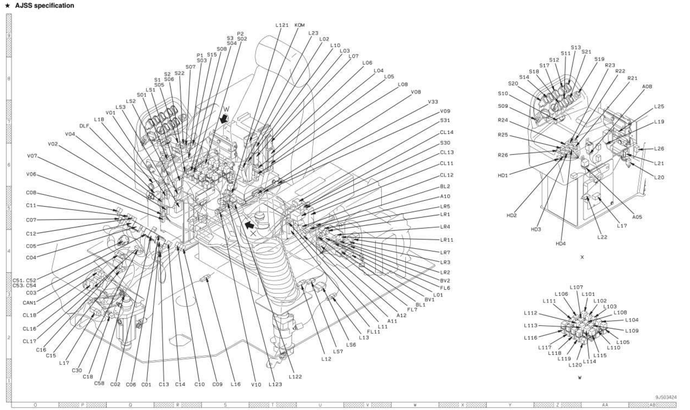
Connector arrangement diagram WA600-6R

Connector No.	Model	Number of pins	Component name	Address of storeogram
1.PS	DT2	2	1st ECMV solenoid	AN-8
1.SW	DT	2	1st ECMV fill switch	AN-9
2.PS	DT2	2	2nd ECMV solenoid	AM-9
2.SW	DT	2	2nd ECMV fill switch	AN-8
3.PS	DT2	2	3rd ECMV solenoid	AM-9
3.SW	DT	2	3rd ECMV fill switch	AN-9
4.PS	DT2	2	4th ECMV solenoid	AL-9
4.SW	DT	2	4th ECMV fill switch	AK-9
A01	AMP040	20	Air conditioner control panel	C-8
A02	AMP040	16	Air conditioner control panel	C-8
A03	YAZAKI	2	Solar radiation sensor	E-1
A05	SUMITOMO	5	Blower main relay	AB-5
A08	YAZAKI	4	Magnet clutch relay	AB-8
A10	YAZAKI	18	Air conditioner unit	X-5
A11	SUMITOMO	4	Air conditioner unit	V-2
A12	SUMITOMO	2	Coolant HiLo switch	W-3
B01	DT2	2	AJSS EPC solenoid	L-4
B02	DT2	2	EPC cut-off solenoid	L-4
B03	—	7	Junction connector	L-3
B04	DT2	2	Rear brake accumulator low pressure switch	L-3
B05	DT2	2	Front brake accumulator low pressure switch	N-3
B06	DT2	2	Rear emergency brake switch	L-2
B07	DT2	2	Front emergency brake switch	L-3
B08	DT2	2	Parking brake emergency release solenoid	N-4
B09	X	2	Transmission oil filter clogging sensor	AF-1
B10	Terminal	1	GND (Rear frame)	L-3
BL1	DT(3)B	12	Intermediate connector (Brake component box)	W-3
BL1	KES0	2	Front windshield washer	G-9
BL2	DT2	4	Intermediate connector (Windshield washer)	K-5
BL3	KES0	2	Rear windshield washer	G-9
BL4	DT2	2	Intermediate connector (Rear windshield washer (if equipped))	I-2
BL5	KES0	2	Rear windshield washer (if equipped)	I-2
BV1	DT2(B)	12	Intermediate connector (VHMS component box)	W-3
BV2	DT2(B)	4	Intermediate connector (VHMS controller)	N-3
BV3	DT2(B)	6	Intermediate connector (VHMS rear end engine harness)	N-5
C01	AMP070	20	Machine monitor	O-1
C02	AMP070	18	Machine monitor	Q-1
C03	AMP070	12	Machine monitor	O-3
C04	AMP070	18	Machine monitor	O-4
C05	AMP070	12	Machine monitor	O-4
C06	AMP070	12	Machine monitor	O-4
C07	AMP070	14	Machine monitor	O-5
C08	SWP	6	Parking brake switch	O-5
C09	SWP	6	Monitor mode switch 1	S-1
C10	SWP	6	Monitor mode switch 2	R-1
C11	SWP	6	Load meter mode switch 1	O-5
C12	SWP	6	Load meter mode switch 2	O-4
C13	M	6	Front wiper switch (AJSS specification)	R-1
C14	YAZAKI	7	Hazard switch (AJSS specification)	R-1
C15	KES1	4	Lighting mode switch (AJSS specification)	O-2
C16	YAZAKI	7	Dimmer switch	O-2
C18	SWP	6	RPM set cancel switch (Right brake pedal)	P-1
C19	SWP	6	Step lamp ON/OFF switch	B-7
C20	YAZAKI	3	AM/FM radio	I-2
C21	Terminal	1	GND (Radio)	C-8
C22	SWP	6	Hydraulic drive fan reverse switch	F-2
C23	SWP	6	Auto grease switch (if equipped)	E-9
C24	SWP	6	Glass heater switch	C-8
C25	KES1	2	Room lamp	E-9
C26	M	1	Left door switch (Room lamp)	F-9
C27	M	1	Front wiper motor	H-1
C28	SWP	6	Rear wiper switch (AJSS specification)	C-8
C29	M	1	Right door switch (Room lamp)	O-9
C30	KES1	2	Resistor (AJSS specification)	P-1
C33	SWP	4	Working lamp switch	D-8
C34	SWP	6	Fog lamp switch (if equipped)	D-8
C35	SWP	6	Warning lamp (Beacon) switch (if equipped)	D-9
C36	M	2	Speaker (Left)	E-9
C37	M	2	Speaker (Right)	E-9
C38	Terminal	1	Rear glass heater	E-9
C39	Terminal	1	Rear glass heater	G-9
C40	M	4	Rear wiper motor	H-1
C41	M	2	Front working lamp (Left)	B-7
C42	M	2	Front working lamp (Right)	B-7
C43	DT2	2	Warning lamp (Beacon) (if equipped)	D-9
C45	M	2	Step lamp	F-9
C46	DT2	6	Intermediate connector (Side wiper harness (if equipped))	C-8
C47	SWP	6	Side wiper switch (if equipped)	K-6
C48	M	4	Side wiper motor (Left) (if equipped)	J-9
C49	M	4	Side wiper motor (Right) (if equipped)	K-6
C50	Terminal	1	GND (Cab)	B-7
CS1	Terminal	1	Starting switch terminal B	O-3
CS2	Terminal	1	Starting switch terminal BR	O-3
CS3	Terminal	1	Starting switch terminal C	O-3
CS4	Terminal	1	Starting switch terminal ACC	O-3
CS6	KES1	2	Room lamp	B-8
CS7	DT2	2	Intermediate connector (Warning lamp (Beacon) (if equipped))	C-8
CS8	DT2	2	Outside temperature sensor (if equipped)	P-1
C90	DT2	6	AUX (Cab) harness (if equipped)	E-9
CAN1	DT2	3	Resistor	O-3
CL11	DRC12	70	Intermediate connector (Floor harness – Cab harness)	X-6
CL12	DRC12	24	Intermediate connector (Floor harness – Cab harness)	X-6
CL13	DRC12	24	Intermediate connector (Floor harness – Cab harness)	X-6
CL14	DT2	2	Intermediate connector (Backup lamp) (Steering wheel specification)	X-7
CL16	DT2(Gr)	12	Intermediate connector (Steering column switch) (Steering wheel specification)	O-2
CL17	DT2(B)	12	Intermediate connector (Steering column switch) (Steering wheel specification)	O-2
CL18	DT2	6	Intermediate connector (Steering column switch) (Steering wheel specification)	O-3
COMBI	M	3	Front combination lamp (Right)	A-6
COMBI	M	3	Front combination lamp (Left)	E-1
D01	Terminal	1	Battery relay (Right)	L-7
D02	Terminal	1	Battery relay (Right)	L-8
D03	Terminal	1	Battery relay (Left)	M-7
D04	Terminal	1	Battery relay (Left)	L-9
D05	DT2	2	Battery electrolyte level sensor (for VHMS, if equipped)	L-7
D06	Terminal	1	Heater relay	M-9
D07	Terminal	1	Heater relay	M-9
D08	Terminal	1	Heater relay	M-9
D09	DT2	3	Step lamp switch	L-8
D10	Terminal	1	GND	J-9
D11	Terminal	1	Battery relay (Right)	L-8
D12	Terminal	1	Battery relay (Right)	L-7
D13	Terminal	1	Battery relay (Left)	M-8
D14	Terminal	1	Battery relay (Left)	N-7
D15	Terminal	1	Battery	M-7
D16	Terminal	1	Battery	K-4
D17	Terminal	1	Battery	H-9
D18	Terminal	1	Battery	G-9
D19	Terminal	1	Disconnection switch (if equipped)	H-9
D20	Terminal	1	Disconnection switch (if equipped)	H-9
DIODE1	DT2	2	Diode	AI-5
DIODE2	DT2	2	Diode	AI-5
DIODE3	DT2	2	Diode	AK-6
DLF	BENDIX	5	Download connector	P-7
DR1	DT2	2	Intermediate connector (Step lamp switch)	K-6
E01	DT2	2	Starting motor	AE-9
E02	DT2	2	Starting motor	AD-8
E03	Terminal	1	Alternator terminal R	AD-2
E04	Terminal	1	Alternator terminal B	AF-1
E05	Terminal	1	Alternator terminal E	AD-3
E13	Terminal	1	Heater	AD-3
E14	DT2	2	Engine oil level sensor	AF-1
E15	DT2	2	Dust indicator	AG-1
E16	DT2	2	Air conditioner compressor	AD-1
E17	DT2	2	Diode	AH-4
E18	DRC26	50	Engine controller	AH-3
E19	DTP	4	Engine controller	AH-2
E20	Terminal	1	Starting motor terminal B	AD-9
E21	DT2	3	Resistor	AH-2
E22	Terminal	1	GND (Engine unit)	AG-2
ENG	DRC	60	Engine controller	AV-2
ER1	DT(2)B	12	Intermediate connector (Engine controller)	AH-8
ER2	DT(3)B	12	Intermediate connector (Engine controller)	AH-7
ER3	L	2	Intermediate connector (Heater relay)	AF-5
ER6	Terminal	1	GND (Alternator)	AE-5
F.PS	DT2	2	F ECMV solenoid	AL-6
F.SW	DT1	2	F ECMV fill switch	AK-6
F01	M	6	Intermediate connector (Combination lamp (Right), headlamp)	A-4
F02	M	6	Intermediate connector (Combination lamp (Left), headlamp)	B-4
F03	AMP 090	2	Horn Lo	B-6
F04	AMP 090	2	Horn Hi	B-6
F07	DT2	2	Lift arm raise EPC solenoid	A-4
F08	DT2	2	Lift arm lower EPC solenoid	C-1
F09	DT2	2	Bucket tilt EPC solenoid	C-1
F10	DT2	2	Bucket dump EPC solenoid	A-1
F11	DT2	3	Bucket level positioner proximity switch	A-3
F12	DT2	3	Bucket tilt detecting proximity switch	A-3
F13	DT2	3	Lift arm angle sensor	E-1
F14	DT2	3	Lift arm bottom pressure sensor (Load meter specification)	C-1
F15	DT2	3	Lift arm rod pressure sensor (Load meter specification)	D-1
F16	DT2	3	Loader pump pressure sensor	B-1
F20	Terminal	1	GND (Front frame)	A-4
F21	DT2	4	Intermediate connector	A-4
F22	DT2	2	3rd valve (attachment) EXT EPC solenoid (if equipped)	C-1
F23	DT2	2	3rd valve (Tool control) RET EPC solenoid (if equipped)	C-1
F24	DT2	2	ECSS solenoid (if equipped)	A-1
F25	DT2	2	Intermediate connector (Front working lamp (if equipped))	B-1
F26	DT2	2	Intermediate connector (Fog lamp (if equipped))	A-3
FF01	M	2	Fog lamp (Right) (if equipped)	C-1
FF02	M	2	Fog lamp (Left) (if equipped)	A-1
FL6	DT2	2	Side working lamp (if equipped)	X-3
FL7	DT2	2	Side working lamp (if equipped)	W-3
FL11	DRC12	40	Intermediate connector (Floor frame – Front frame)	V-2
FW01	M	2	Front working lamp (Right) (if equipped)	Z-2
FW02	M	2	Front working lamp (Left) (if equipped)	Z-2
G	DENSO	3	Backup speed sensor	AV-4
G01	M	6	Rear combination lamp (Right)	I-9
G02	M	6	Rear combination lamp (Left)	I-7
G03	M	2	Rear working lamp (Right)	I-9
G04	M	2	Rear working lamp (Left)	K-6
G05	DT2	2	Coolant level sensor	K-6
G06	DT2	2	Backup buzzer	K-6
G07	DT2	2	Fan reverse solenoid	J-9
GR1	DT(2)B	12	Intermediate connector (Radiator guard harness)	K-6
HD.T	DT2	2	Hydraulic oil temperature sensor	AK-7
HD1	YAZAKI	2	Diode (P washer)	Y-6
HD2	YAZAKI	2	Diode (R washer)	Y-5
HD3	YAZAKI	2	Diode (S washer)	Z-5
HD4	YAZAKI	3	Diode (MC cut-off lift arm BBC cut-off solenoid)	Z-4
HEAD	M	3	Headlamp (Left)	B-6
HEAD	M	3	Headlamp (Left)	A-3
HL	DT-T	12	Fuel injector	AV-4
J1939	DT-T	3	—	AS-5
JB1	—	3	Junction connector	H-2
JB1	—	14	Junction connector	AS-5
JB2	—	19	Junction connector	AT-5
JBB1	—	6	Junction connector	L-9
JBB2	—	6	Junction connector	L-8
JE1	—	6	Junction connector	AD-7
JE1	—	6	Junction connector	J-9
JE2	—	6	Junction connector	AD-7
JE2	—	6	Junction connector	K-8
JE3	—	6	Junction connector	AD-6
JE3	—	6	Junction connector	K-7
JE4	—	6	Junction connector	K-9
JE5	—	6	Junction connector	K-7
JF1	—	6	Junction connector	A-2
JF2	—	6	Junction connector	D-1
JF3	—	6	Junction connector	A-5
JF4	—	6	Junction connector	A-3
JF5	—	6	Junction connector	A-5
JF6	—	6	Junction connector	A-5
JF7	—	6	Junction connector	A-4
JF8	—	6	Junction connector	AK-6
JF9	—	6	Junction connector	A-5
JF11	—	6	Junction connector (if equipped)	
JF12	—	6	Junction connector (if equipped)	
JF13	—	6	Junction connector (if equipped)	
JF14	—	6	Junction connector (if equipped)	
JR1	—	6	Junction connector	AF-6
JR2	—	6	Junction connector	J-3
JR3	—	6	Junction connector	AF-3
JR4	—	6	Junction connector	K-5
JT1	DT(3)B	8	Junction connector	AI-6
JT2	DT2	8	Junction connector	AI-5
JT3	DT2	6	Junction connector	AI-5
JT4	DT2	6	Junction connector	AI-5
JV1	—	6	Junction connector	N-4
JV2	—	6	Junction connector	N-4
JV3	—	6	Junction connector	N-4
JV4	—	6	Junction connector	L-4
KOM	DT2(Gr)	12	Data download	AB-8
L01	Terminal	1	GND (Floor frame)	W-3
L02	DRC26	24	Transmission controller	U-9
L02	SWP	6	Lighting switch, Dimmer switch (Steering wheel specification)	U-9
L03	DRC26	40	Transmission controller	U-9
L03	SWP	6	Turn and Hazard switch (Steering wheel specification)	V-8
L04	DRC26	40	Transmission controller	V-8
L04	SWP	14	Shift switch (Steering wheel specification)	
L05	DRC26	24	Work equipment controller	V-8
L05	DT2	2	Intermediate connector (Steering wheel specification)	
L06	DRC26	40	Work equipment controller	V-8
L07	DRC26	40	Work equipment controller	V-8
L08	DT2(Gr)	12	Intermediate connector (VHMS harness)	W-8
L10	M	6	Intermediate connector (Printer harness)	U-9
L11	AMP	2	Air suspension seat	V-2
L12	DT2	3	Frame angle potentiometer (AJSS specification)	U-2
L13	DT2	2	Steering lock switch (AJSS specification)	V-2
L16	DT2	2	Stop lamp switch	S-1
L17	DT2(B)	12	Intermediate connector (Steering wheel specification)	
L17	M	4	DC24V/DC12V converter	AA-5
L17	DT2(B)	4	Accelerator pedal	P-1
L18	DT2	6	Intermediate connector (Steering wheel specification)	
L18	YAZAKI	2	DC12V outlet	P-7
L19	KES1	4	Flasher unit	AB-7
L20	M	2	Alarm buzzer	AB-6
L21	S	10	Intermediate connector (Wiper) (Steering wheel specification)	
L21	KES1	6	Interval wiper timer	AB-6
L22	M	2	Reverse alarm	AA-4
L23	SUMITOMO	16	Emergency parking release switch Modulation clutch direct joint switch	Y-8 S-9
L25	M	1	Option connector	AB-7
L26	M	1	Option connector	AB-6
L45	D-sub	25	Printer (if equipped)	
L46	HOSHIDEN	4	Printer (if equipped)	
L101	SHINAGAWA	6	Relay No.1 Backup lamp	AA-3
L102	SHINAGAWA	6	Relay No.2 Stop lamp	AA-3
L103	SHINAGAWA	6	Relay No.3 Neutral safety	AA-3
L104	SHINAGAWA	5	Relay No.4 AJSS neutral safety	AA-2
L105	SHINAGAWA	5	Relay No.5 Parking brake safety	AA-2
L106	SHINAGAWA	5	Relay No.6 Preheating	Z-3
L107	SHINAGAWA	5	Relay No.7 Dust indicator	F-2
L108	SHINAGAWA	6	Relay No.8 S working lamp	AA-3
L109	SHINAGAWA	6	Relay No.9 F working lamp	AA-2
L110	SHINAGAWA	6	Relay No.10 R working lamp	AA-2
L111	SHINAGAWA	5	Relay No.11 R glass heater	Z-3
L112	SHINAGAWA	5	Relay No.12 Start neutral hold	Z-3
L113	SHINAGAWA	5	Relay No.13 Hazard	Z-2
L114	SHINAGAWA	5	Relay No.14 Turn signal (AJSS specification)	AA-1
L115	SHINAGAWA	5	Relay No.15 Small lamp	AA-2
L116	SHINAGAWA	5	Relay No.16 Horn	Z-2
L117	SHINAGAWA	5	Relay No.17 Fan motor	Z-2
L118	SHINAGAWA	5	Relay No.18 Dimmer	Z-2
L119	SHINAGAWA	6	Relay No.19 Fog lamp	Z-2
L120	SHINAGAWA	5	Relay No.20 S wiper	Z-1
L121	SHINAGAWA	5	Relay No. 21 Right turn (AJSS specification)	T-9
L122	SHINAGAWA	5	Relay No. 22 Left turn (AJSS specification)	T-1
L123	SHINAGAWA	5	Relay No.23 AUX (Cab) (if equipped)	T-1
L141	SHINAGAWA	5	Printer power source relay (if equipped)	
L142	YAZAKI	2	Diode (if equipped)	
L143	YAZAKI	2	Diode (if equipped)	
L144	YAZAKI	2	Diode (if equipped)	
L145	YAZAKI	2	Diode (if equipped)	
LC.PS	DT2	2	Torque converter lockup solenoid	AN-7
LR1	DTHD4	1	Intermediate connector	X-5
LR2	L	2	Intermediate connector	X-3
LR3	L	2	Intermediate connector	X-4
LR4	L	2	Intermediate connector	A-3
LR5	DT2	6	Intermediate connector	X-5
LR7	DT2(G)	12	Intermediate connector	X-4
LR11	DRC16	40	Intermediate connector	X-4
LS1	S(L)	12	Intermediate connector	Q-8
LS2	S(W)	16	Intermediate connector	Q-7
LS3	S(L)	16	Intermediate connector	Q-7
LS6	DTM	12	Intermediate connector (AJSS specification)	V-2
LS7	DTM	2	Intermediate connector (AJSS specification)	U-2
LT1	HD30	31	Intermediate connector	AH-6
MC.PS	DT2	2	Modulation clutch solenoid	AN-6
MOD.OUT	DT2	2	Modulation clutch output speed sensor	AK-7
NE	FRAMATOME	3	Na speed sensor	AV-3
P1	DT2	4	Lift arm and Bucket EPC lever	R-9
P2	DT2	4	Lift arm and Bucket EPC lever	S-9
PAMB	FRAMATOME	3	Atmospheric pressure sensor	AV-3
PB.PS	DT2	2	Parking brake solenoid	AM-6
PB.SW	DT2	2	Parking brake indicator switch	AL-1
PCV1	SUMITOMO	2	Supply pump	AV-4
PCV2	SUMITOMO	2	Supply pump	AV-3
PFUEL	AMP	3	Common rail pressure sensor	AT-5
PIM	SUMITOMO	3	Charge pressure (boost pressure) sensor	AU-6
PCSL	FRAMATOME	3	Engine oil pressure sensor	AU-1
R.PS	DT2	2	R (Reverse) solenoid	AK-8
R.SW	DT	2	R (Reverse) fill switch	AK-8
R01	Terminal	1	Circuit breaker CBF1	N-9
R02	Terminal	1	Circuit breaker CBF1	N-9
R03	Terminal	1	Circuit breaker CBF2	N-8
R04	Terminal	1	Circuit breaker CBF2	N-8
R05	Terminal	1	Circuit breaker CBF3	N-8
R06	Terminal	1	Circuit breaker CBF3	N-8
R07	Terminal	1	Slow-blow fuse SBF1	M-9
R08	Terminal	1	Slow-blow fuse SBF1	M-9
R09	Terminal	1	GND (Rear frame)	J-3
R10	Terminal	1	GND (Rear frame)	K-5
R12	DT2	2	Fan pump EPC solenoid	AN-4
R13	DT2	2	Torque converter oil temperature sensor	K-6
R14	Terminal	1	Circuit breaker CBF4	N-9
R15	Terminal	1	Circuit breaker CBF4	N-9
R16	DT2	2	Fuel level sensor	I-2
R17	DT2	12	Rear brake oil temperature sensor	H-2
R21	YAZAKI	3	Diode	AB-8
R22	YAZAKI	3	Diode	AA-8
R23	YAZAKI	2	Diode	AA-8
R24	YAZAKI	2	Diode	Y-7
R25	YAZAKI	2	Diode	Y-7
R26	YAZAKI	2	Diode	Y-6
R28	DT2	2	Diode	K-5
R38	DT2	6	Auto grease controller (if equipped)	
REG	DT-T	2	Resistor	AU-1
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REV OUT2	DT2	2	Speed sensor 2	AI-3
RM1	DT2	12	Intermediate connector	G-1
S01	DT2	2	Lift arm neutral lock switch	L-9
S02	DT2	2	Lift arm and Bucket EPC lever	S-9
S03	DT2	4	Lift arm and Bucket EPC lever	R-8
S04	DT2	4	Lift arm and Bucket EPC lever	S-9
S05	DT2	2	Lift arm and Bucket EPC lever	R-8
S06	DT2	2	Lift arm and Bucket EPC lever	R-8
S07	DT2	4	Lift arm lever kickout and hold switch	R-8
S08	DT2	4	Bucket lever switch (Load meter specification)	S-9
S09	X	3	Variable traction control	Z-8
S1	DT2	2	Lift arm and Bucket EPC lever	R-8
S2	DT2	2	Lift arm and Bucket EPC lever	R-8
S3	DT2	2	Lift arm and Bucket EPC lever	S-9
S10	DT2	4	Auto lifting switch	Y-6
S11	SWP	6	Engine power mode switch	Z-9
S12	SWP	6	RPM set ON/OFF switch	Z-9
S13	SWP	6	RPM set ACC/DEC switch	Z-9
S14	SWP	6	Lift arm remote positioner set switch	Y-8
S15	SWP	6	Intermediate connector	S-9
S16	DT2	4	3-spool valve (attachment) EPC lever (if equipped)	
S17	SWP	6	Bucket remote positioner set switch	Z-8
S18	SWP	6	Torque converter lockup switch	Z-8
S19	YAZAKI	2	Cigarette lighter	AA-8
S20	SWP	6	ECSS switch	Y-8
S21	SWP	6	AUTO DIG switch	AA-9
S22	SWP	6	Turn signal switch (AJSS specification)	R-8
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T01	DT2	2	Pump EPC solenoid	H-1
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T03	DT2	3	Modulation clutch pressure switch	F-1
T04	DT2	2	Emergency steering drive switch	Z-8
TFUEL	PACKARD	2	Fuel temperature sensor	AT-1
TM	PACKARD	2	Charge temperature (boost temperature) sensor	AU-6
TM.T	DT2	2	Transmission oil temperature sensor	AI-3
TOIL	PACKARD	2	Engine oil temperature sensor	AV-2
TWTR	PACKARD	2	Coolant temperature sensor	AT-5
V01	AMP070	20	VHMS controller	G-7
V02	AMP070	18	VHMS controller	O-6
V03	AMP070	16	VHMS controller	P-7
V04	AMP070	14	VHMS controller	O-6
V07	AMP070	10	VHMS controller	O-6
V08	AMP070	14	VHMS controller	W-8
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V10	DT2	4	Intermediate connector	T-1
V11	DT2	3	Exhaust gas temperature sensor amplifier	M-5
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V15	Plug connector	1	VHMS start indicator (12V)	M-1
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V17	Terminal	1	VHMS starting switch	N-2
V18	Terminal	1	VHMS starting switch	N-2
V19	Terminal	1	VHMS starting switch	N-2
V20	Terminal	1	VHMS starting switch	N-2
V21	DT2	6	Intermediate connector	I-9
V22	G	1	VHMS operation indicator (24V)	I-9
V23	DT2	3	Steering pressure sensor	L-5
V25	DT2	2	Blow-by pressure sensor	I-3
V27	DT2	2	Exhaust gas temperature sensor amplifier	G-2
V28	DT2	2	Exhaust gas temperature sensor amplifier	F-2
V29	DT2	2	Exhaust gas temperature sensor (Right)	J-3
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V33	Plug connector	1	ORBCOM unit	W-7
V34	Plug connector	1	Antenna cable	B-6
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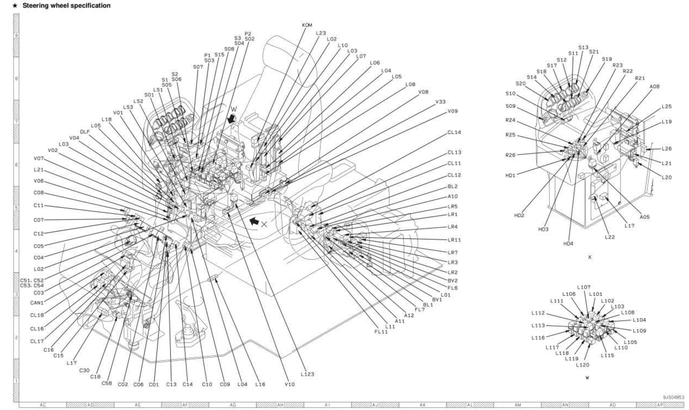




★ AJSS specification



★ Steering wheel specification



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