CEBM007602

Shop Manual

KOMATSU®

PC450LC-8

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC450LC-8** **A10001** and UP

ENGINE **SAA6D125E-5**

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August 2011
Printed in USA

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Mark	Indication	Action
❍	New page to be added	Add
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●	00-2-2	②
●	00-2-3	②
●	00-2-4	②
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MidWestTech | Komatsu PC450LC-8 Hydraulic Excavator Service Manual | Publication CE... Order the manual at mid-west-tech.com >

Mark	Page	Rev
●	10-65	②
	10-66	
●	10-67	②
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	10-69	
	10-70	
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Mark	Page	Rev
	10-98	
	10-99	
	10-100	
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●	10-131	②
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●	10-164	①
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●	10-196	①

MidWestTech | Komatsu PC450LC-8 Hydraulic Excavator Service Manual | Publication CE... Order the manual at mid-west-tech.com >

Mark	Page	Rev
●	10-197	②
●	10-198	②
●	10-199	②
●	10-200	②
●	10-201	②
●	10-202	②
●	10-203	②
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●	30-64	①

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1. Return spring
2. Merge-divide valve (for LS)
3. Valve (Sequence valve)
4. Spring (Sequence valve)
5. Merge-divide valve (Main)
6. Return spring

Boom valve

7. Drift preventive valve
8. LS shuttle valve
9. Pressure compensation valve (Lower)
10. Spool
11. 2-stage safety-suction valve (Lower)
12. Regeneration circuit check valve
13. Suction valve (Raise)
14. Pressure compensation valve (Raise)

L.H. travel valve

15. Merge-divider valve (travel junction valve)
16. Return spring
17. LS shuttle valve
18. Pressure compensation valve (Forward)
19. Spool
20. Suction valve (Forward)
21. Suction valve (Reverse)
22. Pressure compensation valve (Reverse)

Bucket valve

23. LS shuttle valve
24. Pressure compensation valve (Curl)
25. Spool
26. Safety-suction valve (Curl)
27. Safety-suction valve (Dump)
28. Pressure compensation valve (Dump)

Unit: mm

No.	Check item	Criteria					Remedy
		Standard size			Repair limit		
		Free length x Outside diameter	Installed length	Installed load	Free length	Installed load	
29	Spool return spring	46.6 x 21.8	33.0	157 N {16.0 kg}	-	126 N {12.8 kg}	If damaged or deformed, replace spring.
30	Check valve spring	70.9 x 18.0	56.0	250 N {25.5 kg}	-	200 N {20.4 kg}	
31	Spool return spring	64.5 x 32.3	63.0	178 N {18.1 kg}	-	142 N {14.5 kg}	
32	Check valve spring	33.0 x 12.0	26.0	35.3 N {3.6 kg}	-	28.2 N {2.88 kg}	
33	Check valve spring	16.4 x 8.9	11.5	13.7 N {1.4 kg}	-	11.0 N {1.12 kg}	
34	Check valve spring	31.5 x 10.3	19.5	5.9 N {0.6 kg}	-	4.71 N {0.48 kg}	
35	Piston return spring	30.7 x 20.5	23.0	50.0 N {5.1 kg}	-	40.0 N {4.08 kg}	

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Testing and adjusting item	Symbol	Part No.	Part name	Q'ty	Remarks
Troubleshooting for chassis/sensors/ wiring harnesses	T	799-601-7160	Adapter for S	1	
		799-601-7170	Adapter for S	1	
		799-601-7210	Adapter for AMP040	1	
		799-601-7220	Adapter for AMP040	1	
		799-601-7320	Adapter for SWP	1	
		799-601-7340	Adapter for M	1	
		799-601-7360	Adapter for relay	1	
		799-601-7370	Adapter for relay	1	
		799-601-7500	T-adapter assembly	1	
		799-601-7520	Adapter for 070	1	
		799-601-9000 or 799-601-9200	T-adapter assembly	1	
		799-601-9030	Adapter for DT	1	
		799-601-9110	Adapter for DT (GR)	1	
		799-601-9350	Adapter for DRC	1	
		799-601-9360	Adapter for DRC	1	
Testing EGR valve drive pressure	U	799-101-5002	Hyrdaulic tester	1	* Common with G1
		790-261-1204	Digital hydraulic tester	1	
Measuring wear on sprocket	-	796-627-1120	Wear gauge	1	
Measuring coolant temperature and oil temperature	-	799-101-1502	Digital thermometer	1	* Common with B
Measuring operating effort and depressing force	-	79A-264-0021	Push-pull scale	1	0 - 30 kg (0 - 66.1 lbf)
		79A-264-0091	Push-pull scale	1	0 - 50 kg (0 - 110.2 lbf)
Measuring stroke and hydraulic drift	-	Commercially available	Ruler	1	
Measuring work equipment speed	-	Commercially available	Stopwatch	1	
Measuring voltage and resistance	-	Commercially available	Circuit tester	1	
Removal and installation of engine coolant temperature sensor	-	Commercially available	Socket	1	21 mm deep socket (MITOLOY 4ML-21 or equivalent)
		795T-981-1010	Socket	1	19 mm deep socket (MITOLOY 4ML-19 or equivalent)

★ For the model names and part Nos. of the T-adapters and boxes used for troubleshooting for the monitor panel, controllers, sensors, actuators, and wiring harnesses, see TROUBLESHOOTING, Layout of connectors and electric circuit diagram of each system.

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CA441 - Battery Voltage Low Error

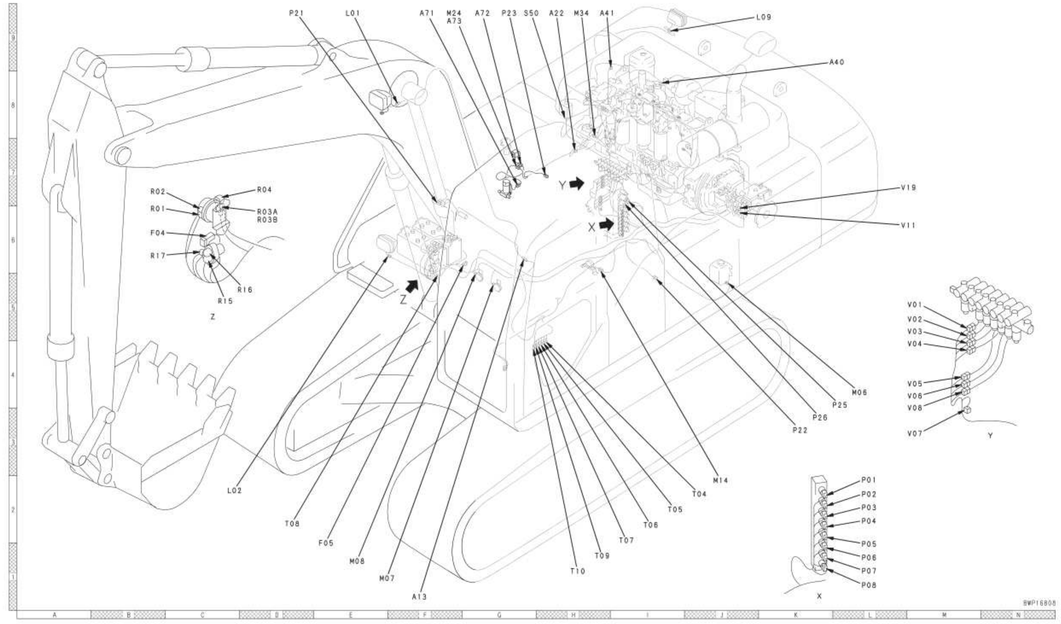
Action code	Failure code	Trouble	Battery voltage low error (Engine controller system)
E10	CA441		
Contents of trouble	• There is low voltage in controller power supply circuit.		
Action of controller	• None in particular.		
Problem that appears on machine	• Engine stops. • Engine does not start easily.		
Related information	• Method of reproducing failure code: Turn starting switch ON.		

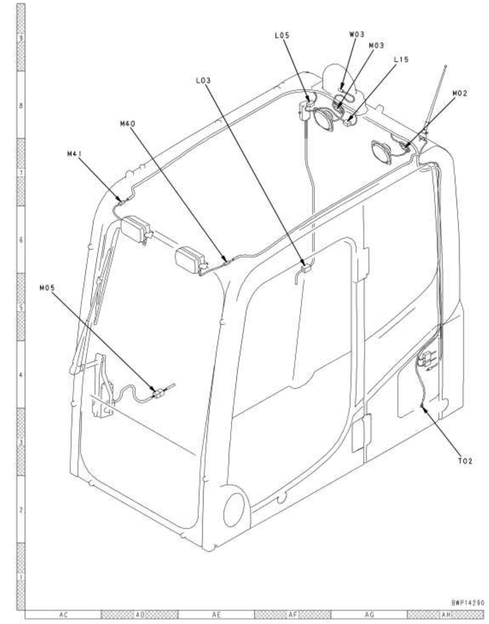
		Cause	Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	1	Looseness or corrosion of battery terminal	Battery terminal may be loosened or corroded. Check it directly.		
	2	Defective battery voltage	★ Prepare with starting switch OFF, then keep starting switch OFF and turn it to START and carry out troubleshooting in each case.		
			Battery (1 piece)	Starting switch	Voltage
			Between (+) – (–) terminals	OFF	Min. 12 V
				START	Min. 6.2 V
	3	Defective fuse No. 19	If fuse is broken, circuit probably has ground fault. (See Cause 6)		
	4	Defective relay for engine controller power supply	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			Replace relay (R23, R24) for engine controller with another relay and perform reproducing operation. If "E" of failure code goes off at this time, replaced relay is defective.		
	5	Disconnection in wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between F01-19 – R23, R24 (female) (3)	Resistance	Max. 10 Ω
			Wiring harness between R23, R24 (female) (5) – CE03 (female) (3)	Resistance	Max. 10 Ω
			Wiring harness between CE03 (female) (1) – chassis ground (T11)	Resistance	Max. 10 Ω
	6	Ground fault in wiring harness (Short circuit with GND circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between F01-19 – R23, R24 (female) (3) and chassis ground	Resistance	Min. 100 kΩ
			Wiring harness between R23, R24 (female) (5) – CE03 (female) (3) and chassis ground	Resistance	Min. 1 MΩ
	7	Short circuit in wiring harness (with another wiring harness)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Between CE03 (female) (3) – CE03 (female) (1) pins (With battery terminal disconnected)	Resistance	Min. 100 kΩ
			Between CE03 (female) (3) – each of CE02 (female) pins (With battery terminal disconnected)	Resistance	Min. 100 kΩ
			Between CE03 (female) (1) – each of CE02 (female) pins (With battery terminal disconnected)	Resistance	Min. 100 kΩ

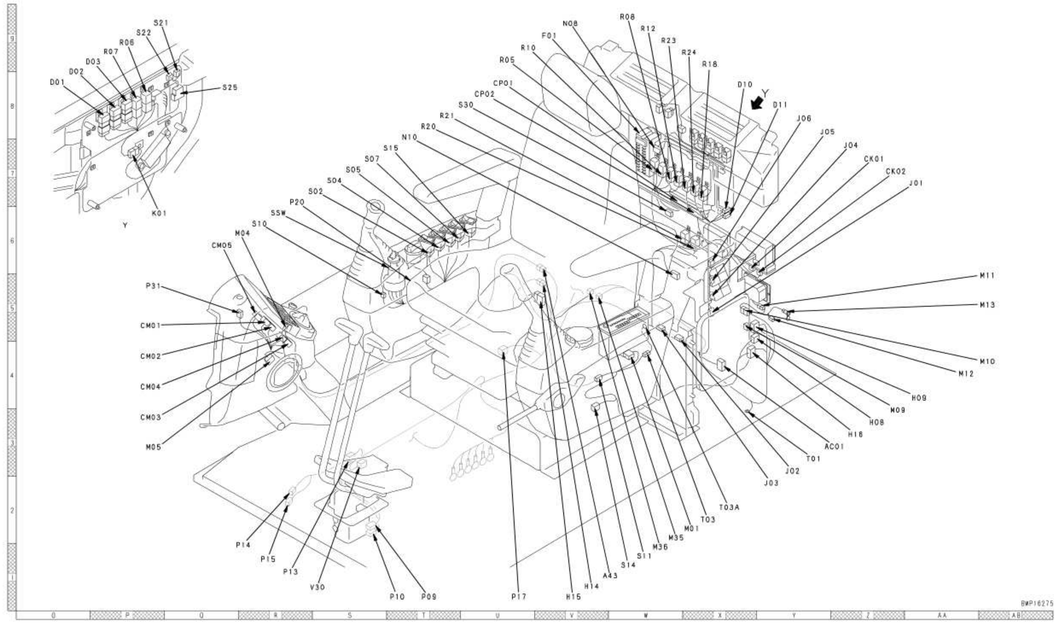
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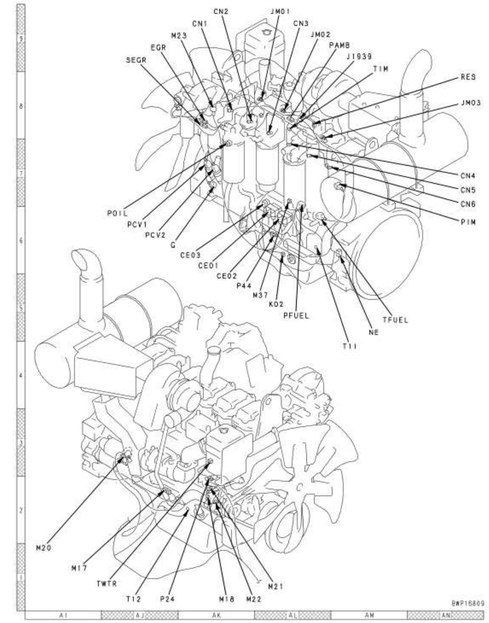
Connector list and stereogram PC400, 400LC-8, PC450, 450LC-8

Connector No.	Type	Number of pins	Component name	Arrangement drawing
A13	DT	2	Intermediate connector (Working lamp wiring harness)	F-1
A22	DT	2	Intermediate connector	H-9
A40	DT	4	Rear camera 1	K-9
A41	DT	4	Camera 2	H-9
A42	DT	4	Camera 3	
A43	S	8	Monitor cable	V-1
A71	D	2	Fuel supply pump	F-9
A72	D	2	Switch box	G-9
A73	D	2	Intermediate connector (pair with M24)	F-9
AC01	—	8	A/C unit	Y-3
CE01	DRC	60	Engine controller	AK-6
CE02	DRC26-50S40	50	Engine controller	AK-5
CE03	DTP	4	Engine controller	AK-6
CK01	070	14	KOMTRAX terminal	Z-7
CK02	070	10	KOMTRAX terminal	Z-7
CM01	070	18	Machine monitor	P-5
CM02	070	12	Machine monitor	P-4
CM03	070	18	Machine monitor	P-3
CM04	070	12	Machine monitor (disconnection)	P-4
CM05	070	8	Machine monitor (for connection of camera)	Q-6
CN1	DT	2	Injector #1	AK-9
CN2	DT	2	Injector #2	AK-9
CN3	DT	2	Injector #3	AL-9
CN4	DT	2	Injector #4	AN-7
CN5	DT	2	Injector #5	AN-7
CN6	DT	2	Injector #6	AN-7
CP01	AMP	81	Work equipment controller	U-8
CP02	AMP	40	Work equipment controller	U-8
D01	SWP	8	Assembled-type diode	O-8
D02	SWP	8	Assembled-type diode	O-8
D03	SWP	8	Assembled-type diode	P-9
D10	M	2	Diode	X-8
D11	M	2	Diode	Y-8
EGR	—	2	EGR valve	AJ-9
F01	—	—	Fuse box	V-9
F04	L	2	Fusible link	B-6
F05	M	2	Fusible link	E-2
G	SUMITOMO	3	G sensor	AJ-6
H08	M	4	Intermediate connector	Z-3
H09	M	8	Intermediate connector	AA-4
H14	M	4	Intermediate connector	V-1
H15	S090	22	Intermediate connector	V-1
H16	S	12	Intermediate connector	Z-3
J01	J	20	Junction connector (Black)	AA-7
J02	J	20	Junction connector (Black)	Y-3
J03	J	20	Junction connector (Green)	Y-2
J04	J	20	Junction connector (Green)	Z-7
J05	J	20	Junction connector (Pink)	Y-8
J06	J	20	Junction connector (Orange)	Y-8
J1939	D	3	CAN	AM-9
JM01	Terminal	9	Junction connector	AL-9
JM02	Terminal	9	Junction connector	AL-9
JM03	Terminal	9	Junction connector	AN-8
K01	M	2	Pump (PC) resistor	P-6
K02	DT	3	CAN terminal resistance	AL-5
L01	DT	2	Working lamp (Boom)	E-9
L02	DT	2	Right head lamp	C-2
L03	M	2	Room lamp	AE-8
L05	SWP	2	Rotary lamp [Rotary lamp specification/Arm crane specification]	AF-9
L09	DT	2	Rear working lamp	K-9
L15	DT	2	Rotary lamp [Rotary lamp specification/Arm crane specification]	AG-9
M01	DA	9	Radio	X-1
M02	M	2	Speaker (Left)	AH-8
M03	M	2	Speaker (Right)	AG-9
M04		2	Cigarette lighter	R-6
M05	M	6	Wiper motor	P-3, AC-5
M06	KES	2	Window washer tank	L-4
M07	X	2	Horn (High tone)	F-1
M08	X	2	Horn (Low tone)	E-1
M09	M	2	Optional power supply connector (1)	Z-3
M10	M	2	Optional power supply connector (2)	AB-4
M11	M	4	DC/DC converter	AB-5
M12	M	2	Optional power supply connector (12 V)	AA-4
M13	M	2	12-V socket	AB-5
M14	DT	2	Travel alarm	J-2
M17	DT	2	Starting motor (terminal S and terminal R circuits)	AI-1
M18	Terminal	1	Alternator (R)	AK-1
M20	Terminal	1	Starting motor (B)	AI-1
M21	Terminal	1	Alternator (B)	AL-1
M22	Terminal	1	Alternator (E)	AK-1
M23	Terminal	1	Electrical intake air heater	AK-9
M24	X	2	Intermediate connector (pair with A73)	F-9
M34	X	1	A/C compressor	H-9
M35	DT	2	Heated seat	W-2
M36	DT	2	Air suspension seat	W-1
M37	DT	2	Electrical priming pump	AL-5
M40	X	2	Front lamp (left) (if equipped)	AD-8
M41	X	2	Front lamp (right) (if equipped)	AC-7
N08	DT	12	Service connector	V-9
N10		4	A/C unit	T-8
NE	SUMITOMO	3	NE sensor	AM-5
P01	AMP	3	Bucket curl PPC pressure sensor	L-2
P02	X	2	Boom lower PPC oil pressure switch	L-2
P03	X	2	Right swing switch	L-2
P04	AMP	3	Arm in PPC pressure sensor	L-2
P05	X	2	Bucket dump PPC pressure sensor	L-1
P06	X	2	Boom raise PPC pressure sensor	L-1
P07	X	2	Left swing switch	L-1
P08	X	2	Arm out PPC oil pressure switch	L-1
P09	X	2	Travel PPC oil pressure switch	T-1
P10	X	2	Travel steering PPC oil pressure switch	T-1
P13	X	2	Intermediate connector	R-1
P14	X	2	Service pressure switch (if equipped)	R-2
P15	X	2	Service pressure switch (if equipped)	R-1
P17	S090	2	A/C HI/LO pressure switch	U-1
P20	M	3	Fuel control dial	R-7
P21	X	1	Fuel level sensor	D-9
P22	DT	2	Hydraulic oil temperature sensor	K-3
P23	DT	2	Air cleaner clogging sensor	G-9
P24	X	2	Radiator coolant level sensor	AJ-1
P25	AMP	3	F pump pressure sensor	L-4
P26	AMP	3	R pump pressure sensor	K-3
P31		2	A/C sunshine sensor	P-5
P44	DT	2	Engine oil level sensor	AK-5
PAMB	AMP	3	Ambient pressure sensor	AM-9
PCV1	SUMITOMO	2	Supply pump #1	AJ-6
PCV2	SUMITOMO	2	Supply pump #2	AJ-6
PFUEL	AMP	3	Common rail pressure sensor	AL-5
PIM	SUMITOMO	3	Boost pressure sensor	AN-6
POIL	SUMITOMO	2	Engine oil pressure switch	AJ-6
R01	Terminal	1	Battery relay (terminal E)	B-6
R02	Terminal	1	Battery relay (terminal BR)	B-7
R03A	Terminal	1	Battery relay (terminal M)	D-6
R03B	Terminal	1	Battery relay (terminal M)	D-6
R04	Terminal	1	Battery relay (terminal B)	D-7
R05	Relay	5	Lamp relay	U-9
R06	Relay	5	Starting motor cut relay (PPC lock)	P-9
R07	Relay	5	Starting motor cut relay (personal code)	P-9
R08	Relay	5	Horn relay	W-9
R10	Relay	5	Rear lamp relay [Rear lamp specification]	U-9
R12	Relay	5	Cab lamp relay [Cab lamp specification]	W-9
R15	Terminal	1	Electrical intake air heater relay (coil circuit)	C-5
R16	Terminal	1	Electrical intake air heater relay (contact circuit)	D-5
R17	Terminal	1	Electrical intake air heater relay	B-6
R18	Relay	5	Auto preheat relay	X-9
R20	Relay	5	A/C blower relay	T-8
R21	Relay	5	A/C compressor relay	T-8
R23	Relay	5	Engine controller relay (1)	W-9
R24	Relay	5	Engine controller relay (2)	X-9
RES	D	2	Resistor	AN-8
S02	SWP	6	Lamp switch	S-7
S04	SWP	6	Swing lock switch	S-7
S05	SWP	6	Machine push up switch	S-7
S07	SWP	6	Rotary lamp switch [Rotary lamp specification]	S-7
S10	S090	2	Right knob switch	R-6
S11	Y090	2	Left knob switch	W-1
S14	M	3	PPC oil pressure lock switch	W-1
S15	SWP	6	Heated seat	T-7
S21	—	12	Emergency pump drive switch	P-9
S22	—	6	Swing holding brake release switch	P-9
S25	S090	16	Intermediate connector	Q-8
S30	S	8	Model selection connector	U-8
S50	DT	6	Electrical priming pump timer switch	G-9
SEGR	D	4	EGR valve position sensor	AJ-9
SSW			Starting switch	R-6
T01	Terminal	1	Floor frame ground	Y-3
T02	Terminal	1	Cab ground	AH-3
T03	M	1	Intermediate connector (radio ground)	X-2
T03A	Terminal	1	Radio ground	X-2
T04	Terminal	1	Revolving frame ground	J-2
T05	Terminal	1	Revolving frame ground	I-2
T06	Terminal	1	Revolving frame ground	I-2
T07	Terminal	1	Revolving frame ground	I-2
T08	Terminal	1	Revolving frame ground	D-2
T09	Terminal	1	Revolving frame ground	H-1
T10	Terminal	1	Revolving frame ground	H-1
T11	Terminal	1	Engine ground	AM-4
T12	Terminal	1	Alternator ground	AJ-1
TFUEL	—	2	Fuel temperature sensor	AM-5
TIM	—	2	Boost temperature sensor	AM-9
TWTR	—	2	Engine coolant temperature sensor	AJ-1
V01	DT	2	PPC basic pressure lock solenoid valve	V-5
V02	DT	2	Travel junction solenoid valve	V-5
V03	DT	2	Merge valve solenoid valve	V-5
V04	DT	2	Travel HI/LO solenoid valve	V-4
V05	DT	2	Swing holding brake solenoid valve	V-4
V06	DT	2	Machine push up solenoid valve	V-4
V07	DT	2	ATT return change solenoid valve	V-3
V08	DT	2	2-stage relief solenoid valve	V-4
V11	DT	2	PC-EPC valve	L-6
V19	DT	2	LS-EPC valve	L-7
V30	DT	2	ATT current control EPC valve [ATT specification]	S-1
W03	M	2	Window rear limit switch	AG-9









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