CEBM023001

Shop Manual

KOMATSU®

WA470-6
WA480-6

WHEEL LOADER

SERIAL NUMBERS	WA470-6	A46001	and up
	WA480-6	A48001	and up

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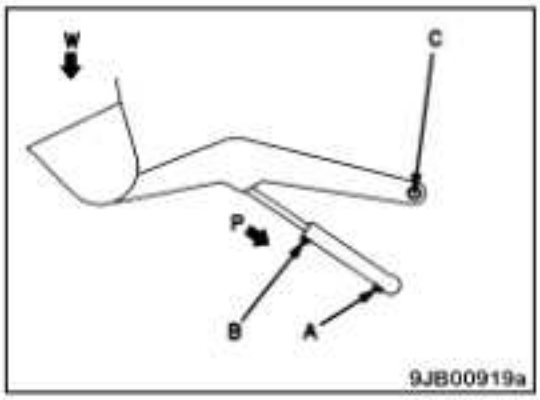
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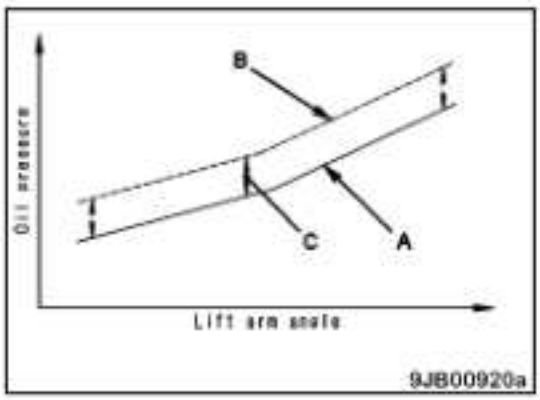
Load meter function
(load meter specification: if equipped)

1. Outline
   - The load meter classifies handled material into 5 types, measures the quantity of load in the bucket, and displays the total load weight or the remaining target load weight.
   - The load meter has the subtraction mode/addition mode selecting function, handled material selecting function, and total load weight display/clear function and is operated with the load meter mode selector switch, load meter display selector switch, and machine monitor mode selector switch.
   - The load meter has the calibration, calibration clear and load meter calculation stop modes, which are selected with the machine monitor mode selector switch.
   - If the load meter is installed with a printer (optional), it can print out the measured data.

   ★ For the operating method, see the Operation and Maintenance Manual.
2. Weight calculation
   The load meter senses lift arm operating pressure (P) with pressure sensor (A) installed to the bottom of the lift cylinder and pressure sensor (B) installed to the head and calculates weight (W) by determining the center of gravity with lift arm angle sensor (C).



   The load weight is calculated from differential pressure (C) between saved (and corrected by calibration) lift arm pressure under the empty machine (A) and calculated lift arm pressure under the loaded machine (B).
   The system calculates the load weight during the lift arm raising operation for higher accuracy.



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Information Contained in Troubleshooting Table

Action code Monitor display	Failure code Monitor display	Trouble	Problem that appears on machine
Contents of trouble	State where the monitor panel or controller detects the trouble		
Action of controller	Action taken by machine monitor or controller to protect system or devices when engine controller detects trouble		
Problem that appears on machine	Problem that appears on machine as result of action taken by machine monitor or controller (shown above)		
Related information	Information related to detected trouble or troubleshooting		

	Cause		Standard value in normal state/Remarks on troubleshooting
Possible causes and standard value in normal state	1 2 3 4	Possible causes of trouble is assumed to be detected (The order number indicates a serial number, not a priority sequence.)	<Described contents> • Standard value in normal state to judge assumed cause (good or not) • Remarks required to judge whether the cause is good <Phenomenon of defective wiring harness> • Disconnection in wiring The connector connection is defective or the wiring harness is disconnected. • Grounding fault A harness not connected to ground (earth) circuit comes into contact with the ground (earth) circuit. • Hot short circuit A harness not connected to the power (24 V) circuit comes into contact with the power (24 V) circuit. • Short circuit A harnesses of an independent circuit abnormally comes into contact with one of another circuit. <Notes on troubleshooting> (1) Method of indicating connector number and handling T-branch For troubleshooting, insert or connect T-branch adapter as shown below unless especially specified. • When "male" or "female" is not indicated for a connector number, disconnect the connector, and insert the T-branch adapter in both the male and female. • When "male" and "female" is indicated for a connector number, disconnect the connector, and insert the T-branch adapter in only either the male or female. (2) Pin number description sequence and tester lead handling For troubleshooting, connect the plus (+) and minus (–) leads as shown below unless especially specified. • Connect the plus (+) lead to a pin or harness indicated in the front. • Connect the minus (–) lead to a pin or harness indicated in the rear.

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	Causes		Standard value in normal state/Remarks on troubleshooting		
Possible causes and standard value in normal state	5	Disconnection in wiring harness (Disconnection or defective contact in connector)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between L21 (female) (3) – L31 (female) (5)	Resis-tance	Max. 1 Ω
			Wiring harness between L21 (female) (5) – C12 (female) (2)	Resis-tance	Max. 1 Ω
			Wiring harness between L21 (female) (7) – fuse No. 7 of fuse box 2, – circuit branch end	Resis-tance	Max. 1 Ω
			Wiring harness between L21 (female) (4) – C12 (female) (1)	Resis-tance	Max. 1 Ω
	6	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 L21 (female) (3) – L31 (female) (5), – circuit branch end and chassis ground	Resis-tance	Min. 1 MΩ
			Wiring harness between L21 (female) (5) – C12 (female) (2), – circuit branch end and chassis ground	Resis-tance	Min. 1 MΩ
			Wiring harness between L21 (female) (7) – fuse No. 7 of fuse box 2, – circuit branch end and chassis ground	Resis-tance	Min. 1 MΩ
			Wiring harness between L21 (female) (4) – C12 (female) (1), – circuit branch end and chassis ground	Resis-tance	Min. 1 MΩ

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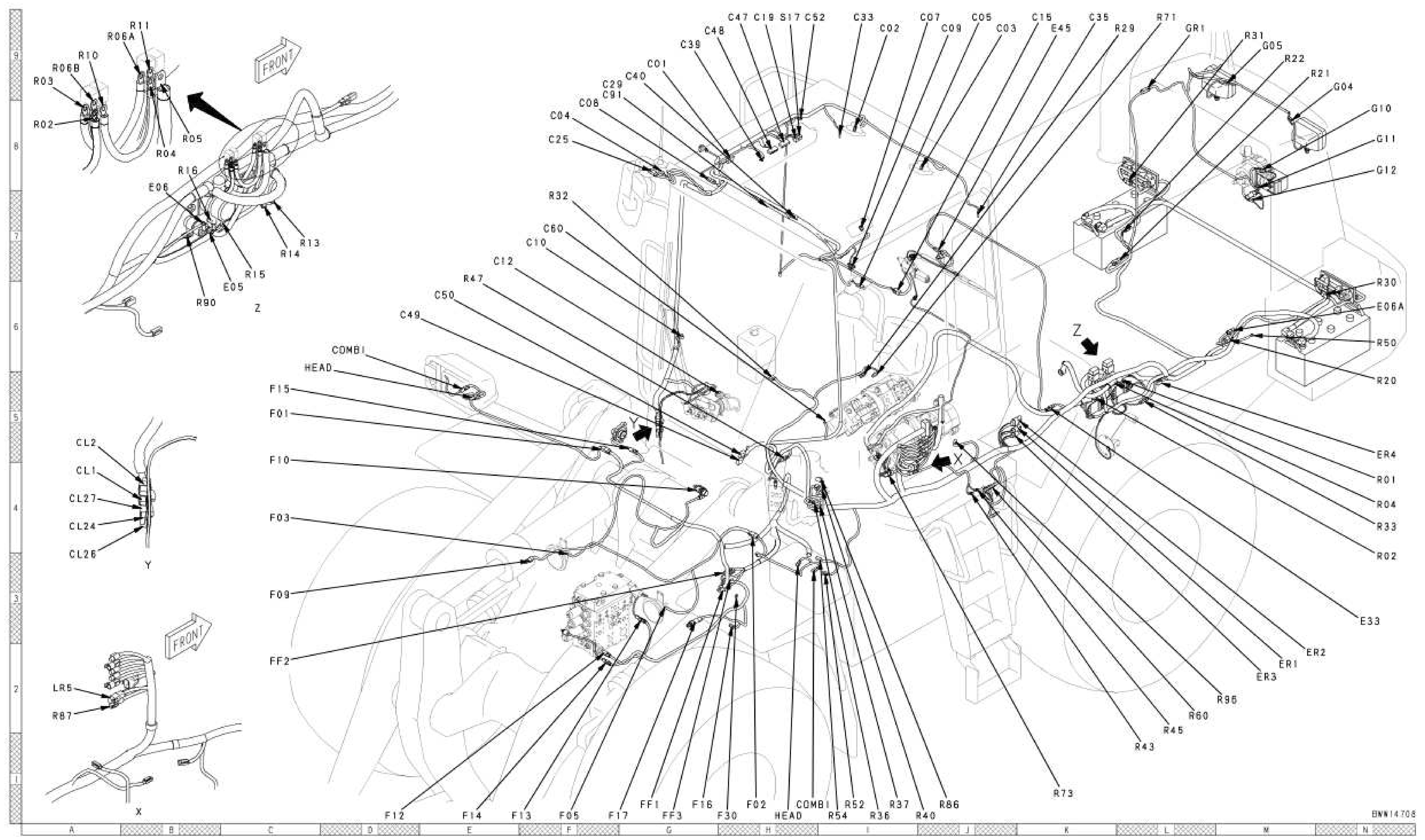
Connector List and Stereogram WA470-6, WA480-6

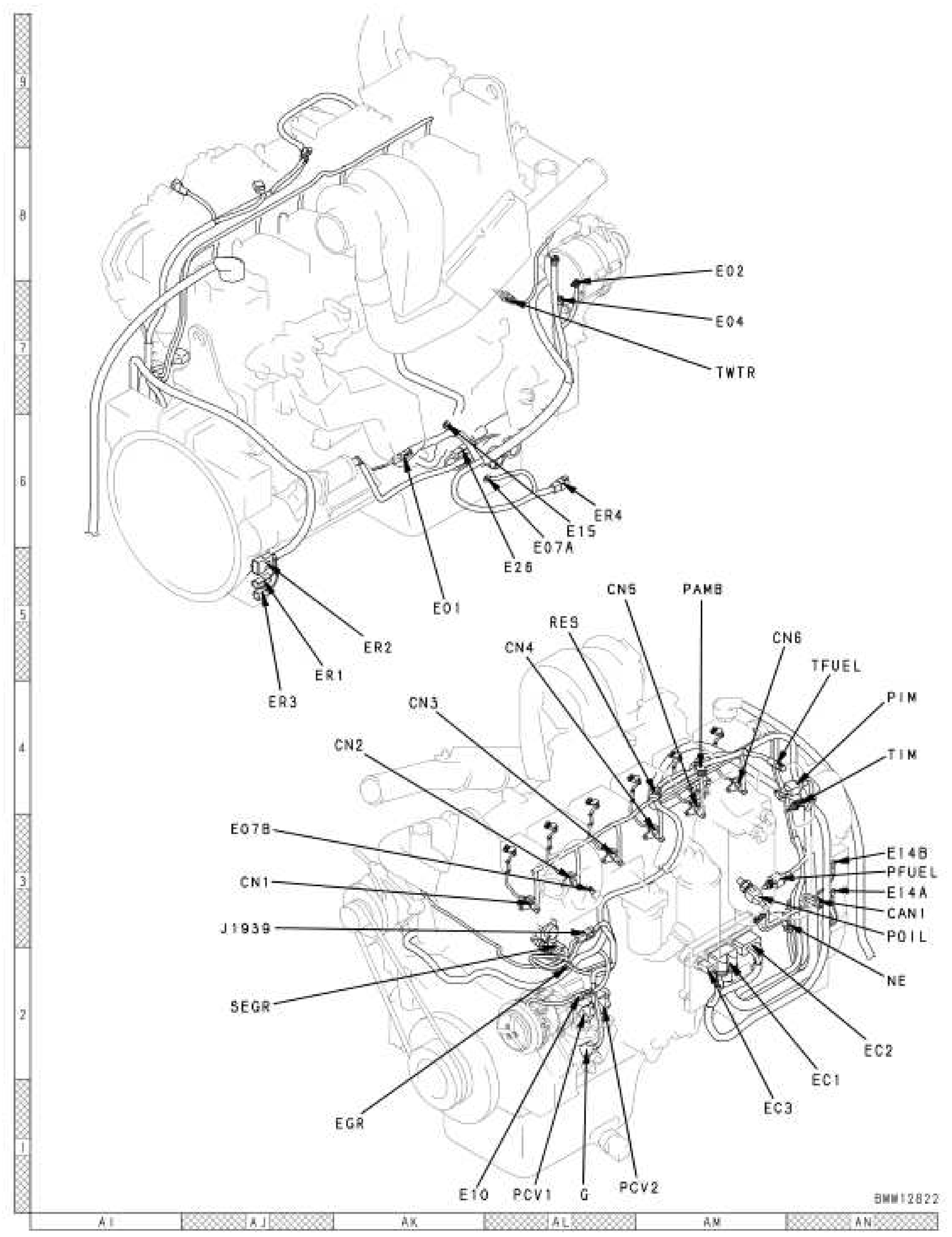
Connector No.	Model	Number of pins	Component name	Address of stereogram
1.PS	DT	2	1st ECMV solenoid	AH-2
1.SW	DT	2	1st ECMV fill switch	AH-2
2.PS	DT	2	2nd ECMV solenoid	AG-7
2.SW	DT	2	2nd ECMV fill switch	AG-6
3.PS	DT	2	3rd ECMV solenoid	AG-6
3.SW	DT	2	3rd ECMV fill switch	AG-6
4.PS	DT	2	4th ECMV solenoid	AH-1
4.SW	DT	2	4th ECMV fill switch	AH-1
AL1	DT	6	Intermediate connector (Air conditioner wiring harness)	S-1
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	Beacon light	—
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		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	DT2(B)	12	Intermediate connector (Air conditioner controller)	D-6
C50	DT2(Gr)	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	JIDOSYA DENKI KOGYO	5	Caution lamp, rotary lamp relay (if equipped)	X-9
C63	JIDOSYA 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)	—
CAN1	DT-T	3	Diode	AN-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
CL26	X	2	Intermediate connector	A-3
CL27	SWP	6	Side wiper (if equipped)	A-4
CN1	DT	2	Injector #1	AJ-3
CN2	DT	2	Injector #2	AK-4
CN3	DT	2	Injector #3	AK-4
CN4	DT	2	Injector #4	AL-5
CN5	DT	2	Injector #5	AL-5
CN6	DT	2	Injector #6	AM-5
COMBI	DT-T	3	Combination lamp, right	D-6
COMBI	DT-T	3	Combination lamp, left	H-1
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
D13	YAZAKI	3	Diode	X-1
DIODE	DT	2	Diode	AE-5
E01	DT-T	2	Starting motor	AK-5
E02	(Terminal)	1	Alternator R terminal	AM-8
E04	(Terminal)	1	Alternator E terminal	AM-7
E05	(Terminal)	1	Heater relay	C-6
E06	(Terminal)	1	Heater relay	B-8
E06A	DT-T	2	Diode	N-6
E07A	(Terminal)	1	Heater relay	AL-6
E07B	(Terminal)	1	Electrical intake air heater	AJ-3
E10	DT-T	2	Air conditioner compressor magnet clutch	AK-1
E14A	(Terminal)	1	GND (Engine)	AN-3
E14B	(Terminal)	1	GND (Engine)	AN-3
E15	(Terminal)	1	GND (Engine)	AL-6
E26	DT-T	2	Engine oil level sensor	AL-5
E33	DT-T	2	Intermediate connector	N-3
E45	DT-T	2	Dust indicator	K-9
EC1	DRC26	60	Engine controller	AN-2
EC2	DRC26	50	Engine controller	AN-2
EC3	DTP	4	Engine controller	AM-1
EGR	DT	2	EGR valve	AK-1
ER1	DT-T	4	Intermediate connector (Engine controller)	M-2, AJ-5
ER2	DT-T	12	Intermediate connector (Engine controller)	M-2, AK-5
ER3	L	2	Intermediate connector (Engine controller)	M-2, AJ-4
ER4	DT-T	6	Intermediate connector	N-5, AL-6
F.PS	DT	2	F (Forward) ECMV solenoid	AH-2
F.SW	DT	2	F (Forward) ECMV fill switch	AH-2
F01	DT-T	6	Intermediate connector (Headlamp, right)	C-5
F02	DT-T	6	Intermediate connector (Headlamp, left)	H-1

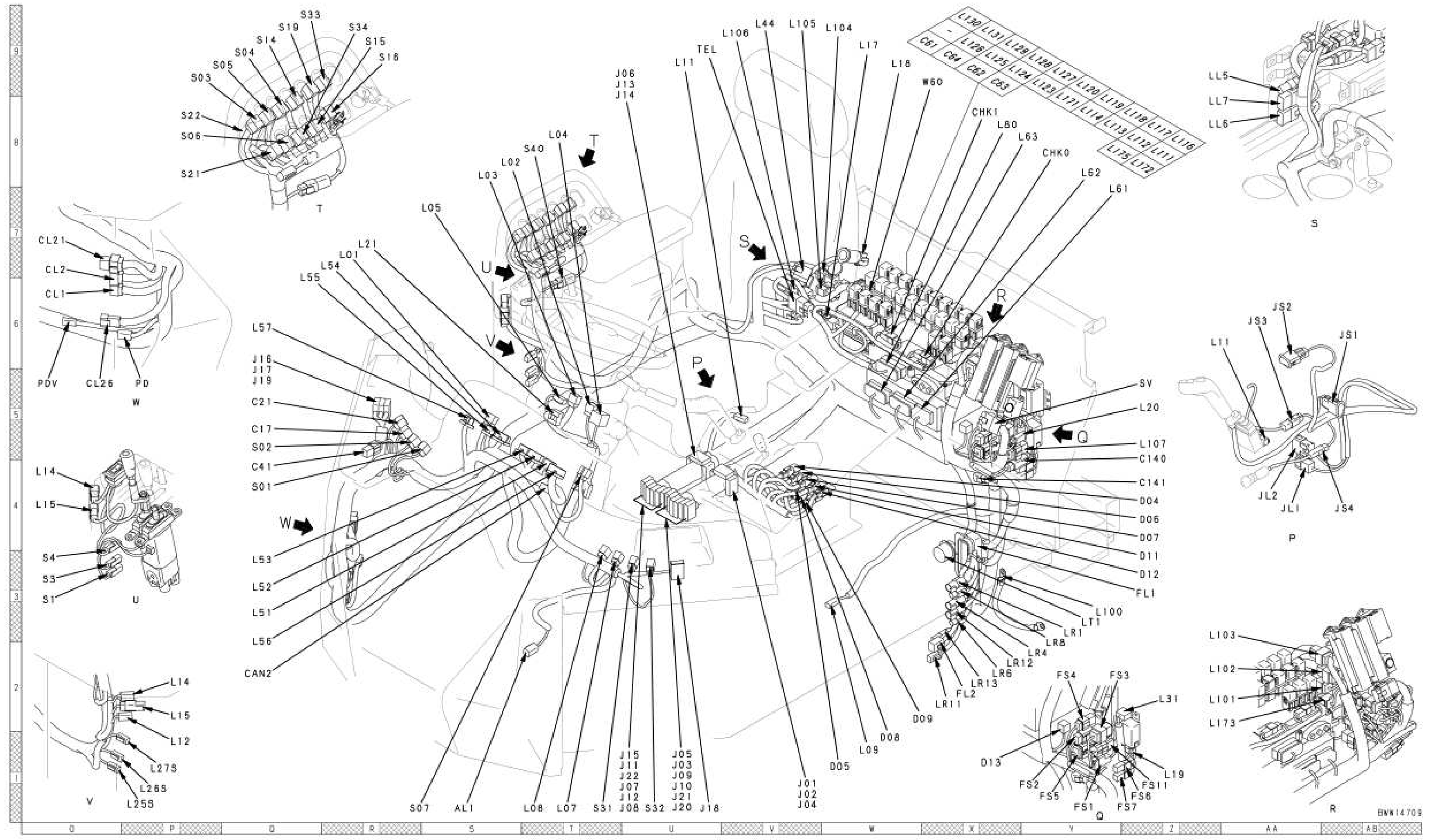
Connector No.	Model	Number of pins	Component name	Address of stereogram
F03	090Ⅱ	2	Horn, Hi	C-4
F05	090Ⅱ	2	Horn, Lo	F-1
F09	DT-T	3	Bucket proximity switch	C-3
F10	DT-T	3	Boom proximity switch	C-5
F12	DT-T	3	Work equipment pump pressure sensor	D-1
F13	DT-T	2	E.C.S.S. solenoid	F-1
F14	DT-T	2	E.C.S.S. cut-off switch	E-1
F15	DT-T	3	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 angle potentiometer (Lift arm/bucket EPC specification) (if equipped)	—
F19	DT2	2	Bucket positioner (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)	H-1
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)	C-2
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(Br)	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
G	SUMITOMO	3	G sensor	AL-1
G04	DT-T	2	Left rear working lamp	N-9
G05	DT-T	2	Right rear working lamp	M-9
G10	DT-T	2	Backup buzzer	N-8
G11	DT-T	2	Fan reverse solenoid	N-8
G12	DT	2	Fan speed sensor	N-8
GR1	DT-T	4	Intermediate connector (Rear working lamp)	L-9
HEAD	DT-T	3	Headlamp, right	D-6
HEAD	DT-T	3	Headlamp, left	H-1
J01	M6409-0073	20	Junction connector	V-1
J02	M6409-0073	20	Junction connector	V-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	U-1
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)	—
J1939	DT	3	CAN	AJ-3
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	AE-4
JT2	DT	6	Junction connector	AF-5
L/C.PS	DT	2	Torque converter lockup ECMV solenoid	AH-3
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

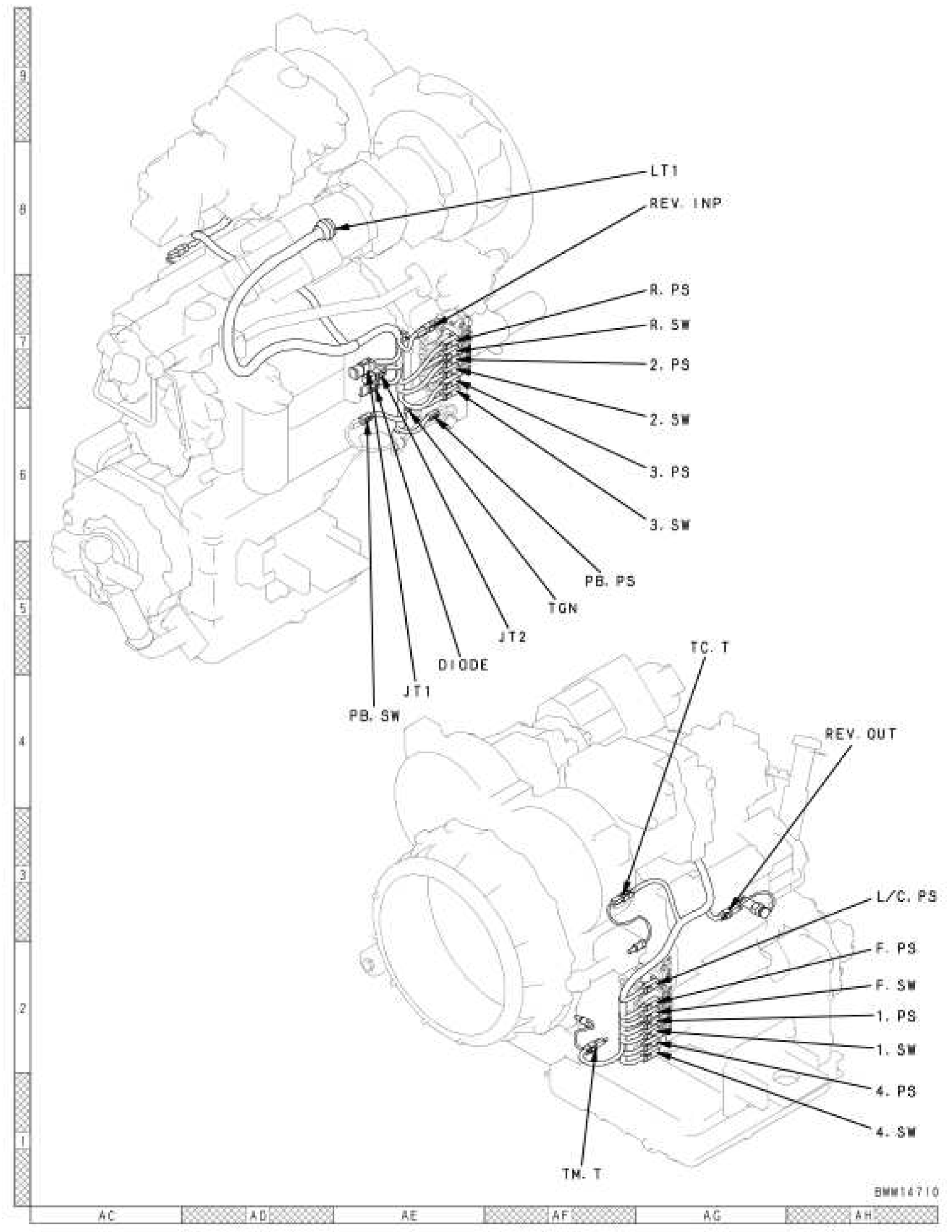
Connector No.	Model	Number of pins	Component name	Address of stereogram
L05	DT-T	2	Steering wheel horn switch	S-7
L07	SWP	6	Machine monitor mode selector switch 1	T-1
L08	SWP	6	Machine monitor mode selector switch 2	T-1
L09	DT-T	2	Stop lamp switch	W-1
L11	DT-T	2	Intermediate connector (Air suspension 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 lever (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
L25E	DT2	2	Bucket dump detent solenoid (Joystick steering specification) (if equipped)	—
L25S	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 specification) (if equipped)	—
L29	DT2	4	Bucket EPC lever (Joystick steering specification) (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	JIDOSYA 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 clog (if equipped)	Z-8
L113	YAZAKI	5	Relay No. 3, joystick safety relay	Y-8
L114	YAZAKI	5	Relay No. 4, start neutral hold	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	JIDOSYA 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
L175	YAZAKI	6	Brake oil pressure caution, emergency brake relay	Y-8
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)	—

Connector No.	Model	Number of pins	Component name	Address of stereogram
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)	—
NE	FRAMATOME	3	Ne speed sensor	AN-2
PAMB	AMP	3	Ambient pressure sensor	AM-5
PB.PS	DT	2	Parking brake solenoid	AF-5
PB.SW	DT	2	Parking brake indicator switch	AE-4
PCV1	SUMITOMO	2	Supply pump 1	AL-1
PCV2	SUMITOMO	2	Supply pump 2	AL-1
PD	DT-T	6	Idle validation switch	P-5
PDV		2	Accelerator pedal	O-5
PFUEL	AMP	3	Common rail pressure sensor	AN-3
PIM	SUMITOMO	4	Boost pressure sensor	AN-4
POIL	FRAMATOME	3	Engine oil pressure sensor	AN-3
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-3
R03	(Terminal)	1	Slow blow fuse	A-9
R04	(Terminal)	1	Battery relay	N-4
R04	(Terminal)	1	Slow blow fuse	B-8
R05	(Terminal)	1	Slow blow fuse	B-8
R06A	(Terminal)	1	Slow blow fuse	B-9
R06B	(Terminal)	1	Slow blow fuse	A-9
R10	(Terminal)	1	Slow blow fuse	A-9
R11	(Terminal)	1	Slow blow fuse	B-9
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	B-8
R20	DT-T	6	Intermediate connector (Rear combination lamp, left)	N-5
R21	DT-T	6	Intermediate connector (Rear combination lamp, right)	M-9
R22	(Terminal)	1	GND	M-9
R29	DT-T	2	Hydraulic fan EPC	L-9
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	F-7
R33	DT-T	2	Fuel level sensor	N-4
R36	DT-T	2	Pressure switch (Steering pump)	I-1
R37	DT-T	2	Pressure switch (Emergency steering)	I-1
R38	DT	6	Auto grease controller	—
R40	X	2	Pressure switch (Steering pump)	J-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	E-7
R50	(Terminal)	1	GND (Rear frame)	N-6
R52	DT-T	2	Emergency brake switch	I-1
R54	DT-T	2	Rear brake pressure switch	I-1
R60	DT-T	2	Rear brake oil temperature sensor	L-2
R71	DT-T	2	Loader pump EPC solenoid	L-9
R73	DT-T	3	Brake oil pressure sensor (For transmission cut-off)	K-1
R86	DT-T	3	Steering pump pressure sensor	J-1
R87	DT	2	Intermediate connector	A-2
R90	(Terminal)	1	Heater relay E terminal	B-6
R96	DT-T	2	Steering pump EPC solenoid	M-2
RES	DT	2	Intermediate connector	AL-5
REV.INP	DT	2	Transmission input speed sensor	AG-8
REV.OUT	DT	2	Transmission output speed sensor	AH-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)	T-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
SEGR	DT	4	EGR valve position sensor	AJ-2
SV	DT-T	12	KOM-NET (CAN) SV connector	Z-5
T21	DT	2	Pump bypass solenoid (if equipped)	—
TC.T	DT	2	Torque converter oil temperature sensor (Monitor)	AG-5
TEL	DT-T	12	Intermediate connector (KOMTRAX)	U-9
TFUEL	PACKARD	2	Fuel temperature sensor	AN-5
TGN	(Terminal)	1	GND (Transmission body)	AF-5
TIM	PACKARD	2	Boost temperature sensor	AN-4
TM.T	DT	2	Transmission lubricating oil temperature sensor	AF-1
TWTR	PACKARD	2	Engine coolant temperature sensor	AM-7
W60	SHINAGAWA	5	KOMTRAX engine cut relay	X-9









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