SEN01775-06

Shop Manual

MOTOR GRADER

GD655-3E0
GD675-3E0

SERIAL NUMBERS GD655-3E0-51501 and up
GD675-3E0-51301

ecot3

KOMATSU®

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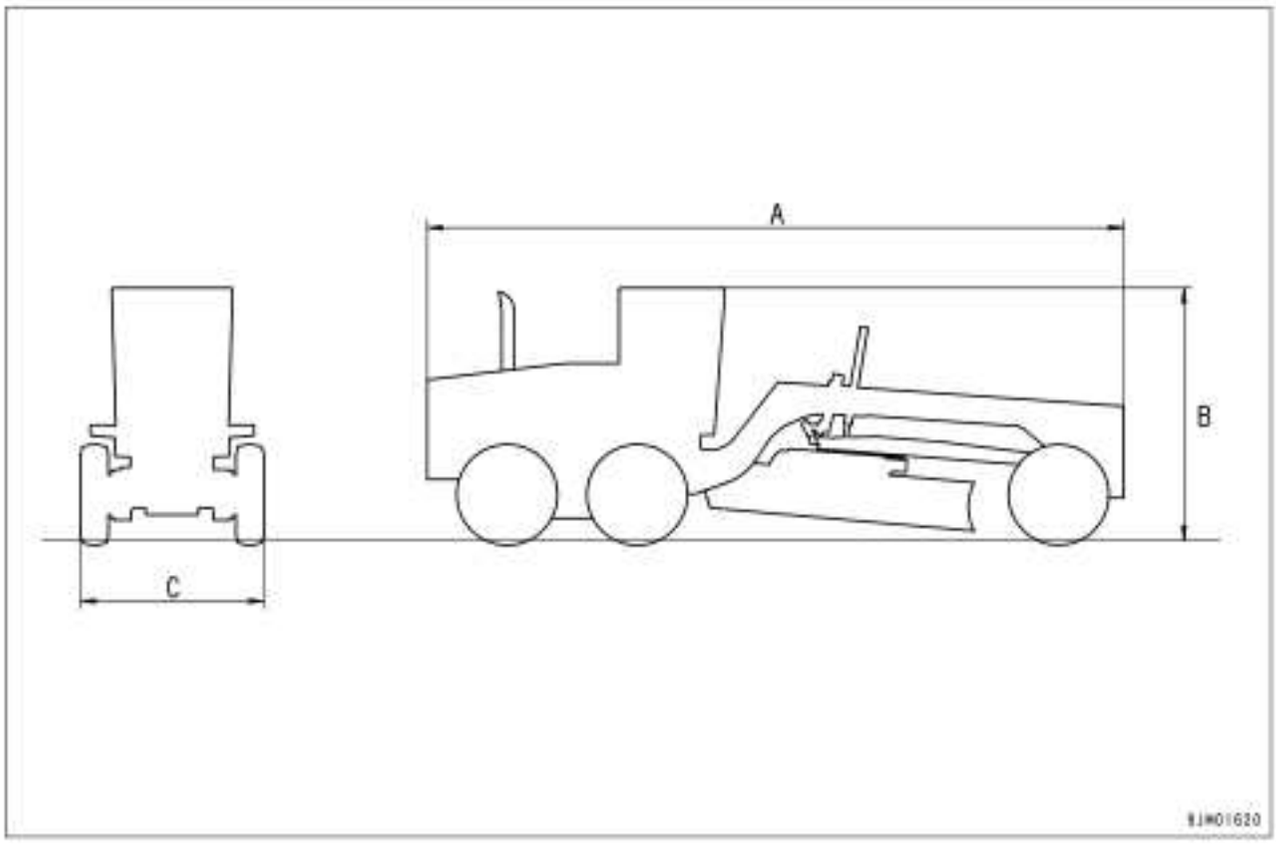
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Specification and technical data

General assembly drawing



(Unit: mm)

	Item	GD655-3E0	GD675-3E0
A	Overall length	8,715	8,715
B	Overall height (with full height cab)	3,350	3,345
	Overall height (with low height cab)	3,120	3,115
C	Overall width	2,550	2,550

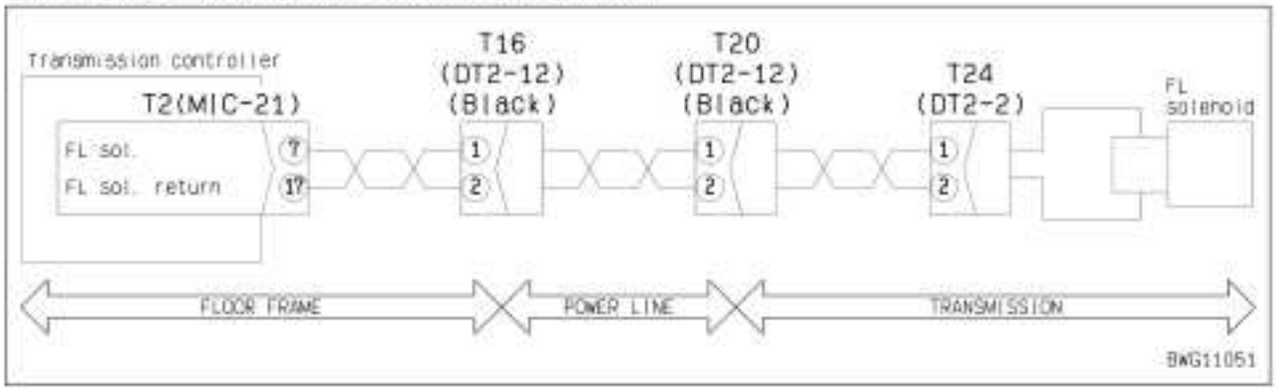
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Failure code [DXH3KA] Disconnection in FL clutch ECMV solenoid

Action code	Failure code	Trouble	Disconnection in FL clutch ECMV solenoid (Transmission controller system)
E03	DXH3KA		
Contents of trouble	• When output to FL clutch ECMV is OFF, current flows to circuit.		
Action of controller	• Flashes warning lamp and turns on alarm buzzer.		
Problem that appears on machine	• Can not travel in F1, F3, F5, F7.		
Related information	—		

	Cause		Standard value when normal and remarks for troubleshooting		
Possible causes and standard value in normal state	1	Defective FL clutch ECMV solenoid (Internal defect)	1) Turn starting switch OFF. 2) Disconnect T24.		
			Between T24 (male) (1) and (2)	Resis-tance	5 – 15 Ω
			Between T24 (male) (1), (2) and chassis ground	Resis-tance	Min. 1 MΩ
	2	Defective contact or open circuit in wiring harness	1) Turn starting switch OFF. 2) Disconnect T2,T24.		
			Between T2 (female) (17) – T24 (female) (2)	Resis-tance	Min. 1 MΩ
	3	Grounding fault in wiring harness	1) Turn starting switch OFF. 2) Disconnect T2,T24.		
			Between T2 (female) (7) and chassis ground	Resis-tance	5 – 15 Ω
	4	Defective contact or open circuit in wiring harness	1) Turn starting switch OFF. 2) Disconnect T2, T24.		
			Between T2 (female) (7) and T24 (female) (1)	Resis-tance	Max. 1 Ω
	5	Defective transmission controller	If no problem is found in causes 1 to 4, it is suspected that transmission controller is defective. (Troubleshooting cannot be carried out since it is internal defect.)		

Circuit diagram related to FL clutch ECMV solenoid



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E-28 Air conditioner does not work or stop

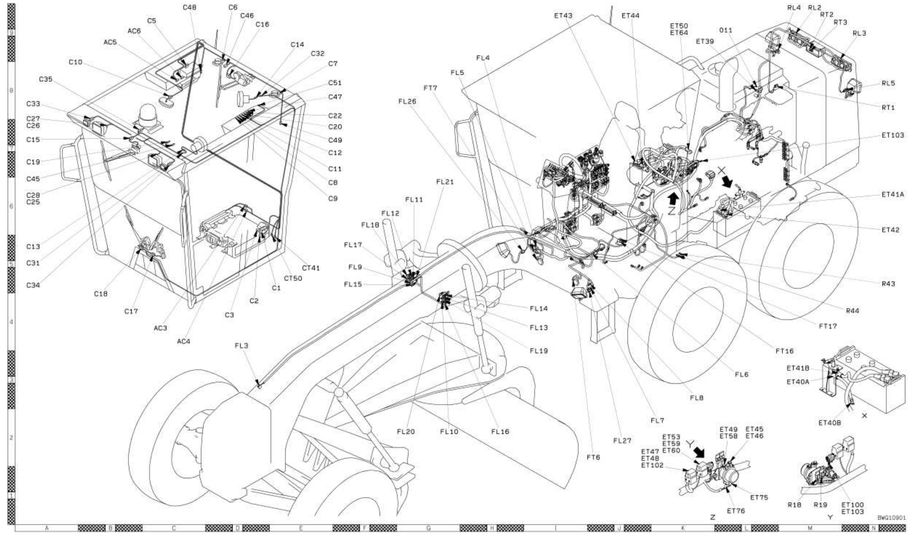
Symptom of failure	• Air conditioner does not work or stop.
General information	• Following is troubleshooting for only power supply circuit and ground circuit between air conditioner and operator's cab. For troubleshooting for air conditioner unit, see Shop Manual for air conditioner.

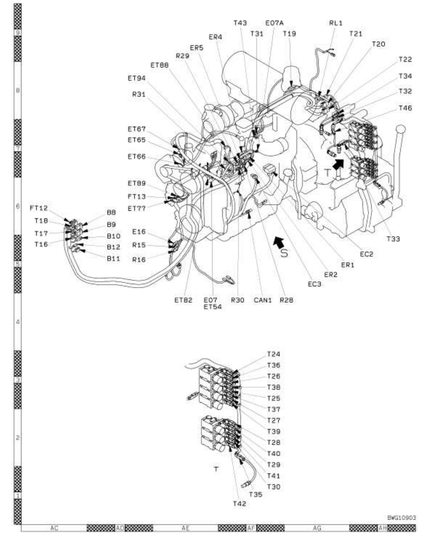
	Cause		Standard value when normal and remarks for troubleshooting		
Possible causes and the standard values when normal	1	Defective fuse No. 3 or No. 4 of fuse box A or 5A or 15A fuse of main circuit in air conditioner	If fuse is broken, circuit probably has ground fault etc. (See cause 2.)		
	2	Ground fault in wiring harness (Contact with GND circuit)	★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. • When fuse No. 8 of fuse box A is broken		
			Wiring harness between fuse No. 8 of fuse box A – 5A fuse of main circuit in air conditioner unit or 15A fuse in air conditioner unit	Resistance	Min. 1 MΩ
			★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. • When fuse No. 7 of fuse box A is broken		
			Wiring harness between fuse No. 7 of fuse box A – compressor clutch relay	Resistance	Min. 1 MΩ
			★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. • When 5A fuse of main circuit in air conditioner unit is broken		
			Wiring harness between 5A fuse of main circuit in air conditioner unit – C48 (female) (7), pressure switch, or primary side of blower OFF relay	Resistance	Min. 1 MΩ
			★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON. • When 15A fuse in air conditioner unit is broken		
			Wiring harness between 15A fuse in air conditioner unit – blower OFF relay	Resistance	Min. 1 MΩ
	3	Disconnection in air conditioner control panel power supply or ground wiring harness (Disconnection in wiring or defective contact in connector)	★ Prepare with starting switch OFF, then turn starting switch ON and carry out troubleshooting.		
			C48	Starting switch	Voltage
			Between (7) – (1)	ON	20 – 30 V
				OFF	Max. 1 V
			★ Prepare with starting switch OFF, then carry out troubleshooting without turning starting switch ON.		
			Wiring harness between fuse No. 8 of fuse box A – C48 (female) (7)	Resistance	Max. 1 Ω
			Wiring harness between C48 (female) (1) – ground	Resistance	Max. 1 Ω

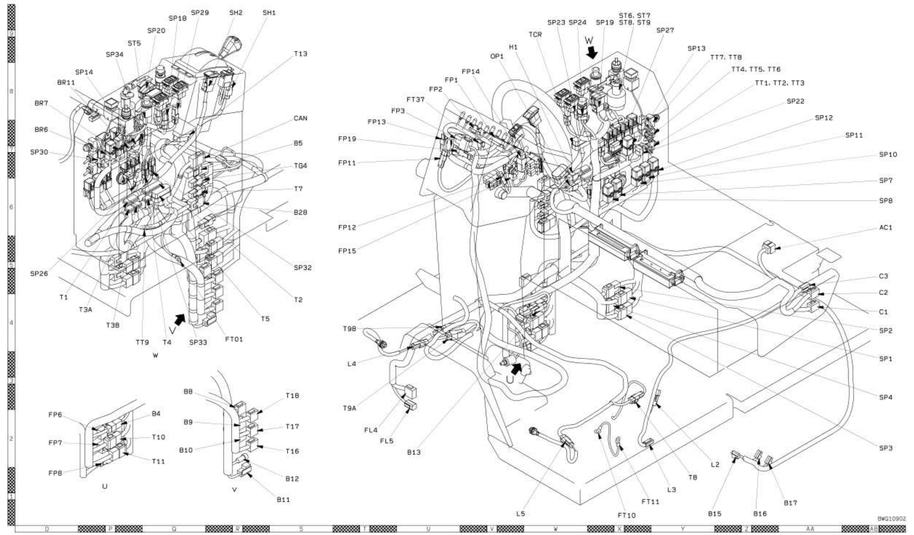
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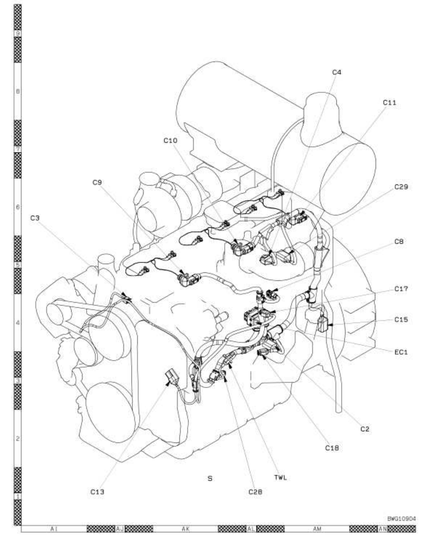
Connector arrangement diagram

Connector No.	Model	Number of pins	Component name	Address of stereogram
011	TERMINAL	1	GND	L-9
AC1	SWP	12	AIR CONDITIONER	AB-6
AC3	SWP	14	AIR CONDITIONER	C-4
AC4	SWP	6	AIR CONDITIONER	C-4
AC5	—	22	A/C CONTROL UNIT	B-9
AC6	—	14	A/C CONTROL UNIT	B-9
B10	DT2	6	INTERMEDIATE CONNECTOR	Q-2, AD-5
B11	L	2	INTERMEDIATE CONNECTOR	S-1, AD-5
B12	DTHD8	1	INTERMEDIATE CONNECTOR	S-1, AD-5
B13	DT2	2	BRAKE LAMP SW	U-2
B15	KES	2	WINDOW WASHER	Y-1
B16	KES	2	WINDOW WASHER	Z-1
B17	KES	2	WINDOW WASHER	AA-1
B28	DT2 (B)	12	JUMPER SOCKET / INTERMIT (OP)	S-6
B4	DT2	6	INTERMEDIATE CONNECTOR	Q-2
B5	X	4	TM TOOL PORT	S-7
B8	DT2 (Br)	12	INTERMEDIATE CONNECTOR	Q-3, AD-6
B9	DT2 (B)	12	INTERMEDIATE CONNECTOR	Q-2, AD-6
BR11	Relay	5	PARKING BRAKE RELAY	O-8
BR6	Relay	5	BACK UP LAMP RELAY	O-7
BR7	Relay	5	DIFF LOCK RELAY (OP)	O-8
C1	DT2 (Gre)	8	CAB	E-5, AB-4
C10	KES	2	ROOM LAMP	B-8
C10	DT2	4	INJECTOR #3&4	AK-7
C11	M	2	F FAN SW (OP)	E-7
C11	DT2	4	INJECTOR #5&6	AN-8
C12	M	2	R FAN SW (OP)	E-7
C13	M	2	DEFROSTER FAN FRONT (OP)	A-6
C13	FRAMATOME	3	CAM POSITION SENSOR	AJ-1
C14	M	2	DEFROSTER FAN REAR (OP)	E-9
C15	KES	4	F WIPER MOTOR	A-7
C15	FRAMATOME	3	CRANK SPEED SENSOR	AN-4
C16	KES	4	R WIPER MOTOR	D-9
C17	KES	4	F WIPER MOTOR L (OP)	B-4
C17	DT2	2	FUEL PUMP ACTUATOR	AN-5
C18	KES	4	F WIPER MOTOR R (OP)	B-5
C18	DT2	2	LIFT PUMP	AM-2
C19	Relay	5	F LOWER WIPER RELAY (OP)	A-7
C2	DT2 (Gr)	8	CAB	D-4, AB-5
C2	FRAMATOME	2	ENGINE OIL PRESSURE SWITCH	AN-2
C20	M	2	BEACON SW (OP)	E-7
C22	KES	3	WORK LAMP (OP)	E-8
C25	M	2	WORK LAMP (OP)	A-6
C26	M	2	WORK LAMP (OP)	A-7
C27	M	3	HEAD LAMP RH	A-8
C28	M	3	HAED LAMP LH	A-6
C28	DT2	2	WATER IN FUEL	AL-1
C29	FRAMATOME	3	BAROMETRIC PRESSURE SENSOR	AN-6
C3	DT2	6	CAB	D-4, AB-5
C3	DELPHI	2	COOLANT TEMPERATURE SENSOR	AI-6
C31	M	2	DEFROSTER FAN FRONT (OP)	A-5
C32	M	2	DEFROSTER FAN REAR (OP)	E-9
C33	M	3	RH COMB. LAMP	A-8
C34	M	3	LH COMB. LAMP	A-5
C35	DT	2	BEACON LAMP (OP)	A-8
C4	SUMITOMO	4	BOOST PRESSURE SENSOR	AM-8
C45	Relay	5	BEACON RERLAY (OP)	A-6
C46	DT	2	BEACON LAMP (OP)	D-9
C47	KES	3	R HEAT GLASS SW	E-8
C48	TERMINAL	1	REAR HEAT GLASS POWER	C-9
C49	TERMINAL	1	REAR HEAT GLASS GND	E-7
C5	(YAZAKI)	9	RADIO (OP)	C-9
C51	Relay	5	R HEAT GLASS RELAY	E-8
C6	KES	2	SPEAKER R (OP)	D-9
C7	KES	2	SPEAKER L (OP)	E-8
C8	KES	6	R WIPER SW (OP)	E-6
C8	BOSCH	3	COMMON RAIL SENSOR	AN-5
C9	KES	6	F LOWER WIPER SW (OP)	E-6
C9	DT2	4	INJECTOR #1&2	AJ-6
CAN	DT2 (Gr)	12	KOMNET TOOL PORT	S-8
CAN1	DT04	3	CAN RESISTOR	AF-4
CT41	TERMINAL	1	GND	E-5
CT50	TERMINAL	1	GND	E-5
E07	TERMINAL	1	HEATER RELAY	AE-4
E07A	TERMINAL	1	GRID HEATER	AF-9
E16	DT2	4	INTERMEDIATE CONNECTOR	AD-6
EC1	DRC26	60	ENG CONTROLLER	AN-4
EC2	DRC26	50	ENG CONTOROLLER	AH-5
EC3	DTP06	4	ENG CONTOROLLER POWER	AG-5
ER1	DT2 (B)	12	INTERMEDIATE CONNECTOR	AG-5
ER2	DTP06	2	INTERMEDIATE CONNECTOR	AG-5
ER4	DT2	6	JOINT CONNECTOR	AE-9
ER5	DT2	6	JOINT CONNECTOR	AE-9
ET100	TERMINAL	1	CIRCUIT BREAKER OUT	N-1
ET102	TERMINAL	1	SLOW BLOW FUSE	K-2
ET103	TERMINAL	1	CIRCUIT BREAKER IN	N-1
ET103	TERMINAL	1	ENG CONTOROLLER GND	N-7
ET39	DT2	2	FUEL SENSOR	K-9
ET40A	TERMINAL	1	BATTERY ISOLATOR	M-3
ET40B	TERMINAL	1	GND	M-2
ET41A	TERMINAL	1	BATTERY –	N-6
ET41B	TERMINAL	1	BATTERY ISOLATOR	M-3
ET42	TERMINAL	1	BATTERY JOINT	N-6
ET43	TERMINAL	1	BATTERY JOINT	I-9
ET44	TERMINAL	1	BATTERY +	J-9
ET45	TERMINAL	1	BATTERY RELAY IN	L-2
ET46	TERMINAL	1	BATTERY RELAY	L-2
ET47	TERMINAL	1	SLOW BLOW FUSE	K-2
ET48	TERMINAL	1	SLOW BLOW FUSE	K-2
ET49	TERMINAL	1	BATTERY RELAY OUT	L-2
ET50	TERMINAL	1	STARTER B	K-9
ET53	TERMINAL	1	SLOW BLOW FUSE	K-2
ET54	TERMINAL	1	HEATER RELAY	AE-4
ET58	TERMINAL	1	BATTERY RELAY OUT	L-2
ET59	TERMINAL	1	SLOW BLOW FUSE	K-2
ET60	TERMINAL	1	SLOW BLOW FUSE	K-2
ET64	TERMINAL	1	STARTER B	K-9
ET65	TERMINAL	1	ALTERNATOR B	AD-7
ET66	TERMINAL	1	ALTERNATOR R	AD-7
ET67	TERMINAL	1	ALTERNATOR E	AD-7
ET75	TERMINAL	1	BATTERY RELAY +	L-1
ET76	TERMINAL	1	BATTERY RELAY –	L-1
ET77	TERMINAL	1	R FRAME GND	AD-6
ET82	TERMINAL	1	HEATER RELAY	AE-4
ET88	DT2	2	FREON COMPRESSOR CLUTCH	AE-8
ET89	TERMINAL	1	R FRAME GND	AD-6
ET94	TERMINAL	1	R FRAME GND	AD-8
FL10	DT	2	ACCUMULATOR SOL L (OP)	G-2
FL11	DT	2	FLOAT SOLENOID RH (OP)	G-6
FL12	DT	2	FLOAT SOLENOID RB (OP)	F-6
FL13	DT	2	FLOAT SOLENOID LH (OP)	I-4
FL14	DT	2	FLOAT SOLENOID LB (OP)	I-4
FL15	DT	2	DIODE (ACCUMULATOR SOL R)	F-5
FL16	DT	2	DIODE (ACCUMULATOR SOL L)	H-2
FL17	DT	2	DIODE (FLOAT SOL RH)	F-5
FL18	DT	2	DIODE (FLOAT SOL RB)	F-6
FL19	DT	2	DIODE (FLOAT SOL LH)	I-4
FL20	DT	2	DIODE (FLOAT SOL LB)	G-2
FL21	DT2	4	INTERMEDIATE CONNECTOR	G-6
FL26	M	2	F WORK LAMP (R)	G-8
FL27	M	2	F WORK LAMP (L)	J-2
FL3	DT2 (B)	12	INTERMEDIATE CONNECTOR	D-3
FL4	DT2 (B)	12	INTERMEDIATE CONNECTOR	H-9, T-2
FL5	DT2	6	INTERMEDIATE CONNECTOR	G-8, T-2
FL6	DT2	2	ARTICULATE SENSOR	L-3
FL7	DT2	2	LIFTER LOCK SOLENOID	K-2
FL8	DT2	2	PARKING VALVE SOLENOID	K-3
FL9	DT	2	ACCUMULATOR SOL R (OP)	F-5
FP1	AMP 070	20	MONITOR MODULE	U-8
FP11	DT2	3	TURN SIGNAL SW	T-7
FP12	DT2	3	DIMMER SW	T-6
FP13	DT2	2	DIFF LOCK SW	T-7
FP14	DT2	6	MONITOR MODE SW2	V-8
FP15	DT2	6	MONITOR MODE SW1	T-5
FP19	DT2	2	START AID SW	T-7
FP2	AMP 070	12	MONITOR MODULE	U-8
FP3	DT2 (B)	12	WARNING MODULE	U-8
FP6	DT2 (B)	12	INTERMEDIATE CONNECTOR	O-2
FP7	DT2 (Gr)	12	INTERMEDIATE CONNECTOR	O-2
FP8	DT2	4	INTERMEDIATE CONNECTOR	O-1
FT01	TERMINAL	1	GND	R-4
FT10	TERMINAL	1	GND	X-1
FT11	TERMINAL	1	GND	X-1
FT12	TERMINAL	1	F FRAME GND	AC-6
FT13	TERMINAL	1	R FRAME GND	AD-6
FT16	TERMINAL	1	ARTICURATE SENSOR (–)	M-3
FT17	TERMINAL	1	ARTICURATE SENSOR (G)	M-4
FT37	DT2	2	HORN SW	U-8
FT6	2PINS	2	HORN (L)	J-2
FT7	2PINS	2	HORN (R)	G-8
H1	X	1	CAR HEATER (24V)	V-9
L2	DT	2	DIODE (START AID SOLENOID)	Y-2
L3	DT2	2	START AID VALVE SOLENOID	Y-1
L4	DT2	3	FLOAT CANCEL SW R	T-3
L5	DT2	3	FLOAT CANCEL SW L	W-1
OP1	X	1	OP (24V)	V-9
R15	DT2	3	BRAKE ACCU. PRESSURE SW F	AD-5
R16	DT2	3	BRAKE ACCU. PRESSURE SW R	AD-5
R18	DT	2	DIODE	M-1
R19	DT	2	DIODE	M-1
R28	DT	2	DIODE STARTER C	AG-4
R29	DT	2	DIODE STARTER C	AE-9
R30	DT	2	STARTER	AF-4
R31	DT	2	DIODE HEATER RELAY	AD-8
R43	DT2	2	DIFF THERMO SW	N-5
R44	DT2	2	DIFF LOCK SOLENOID	N-4
RL1	DT2 (Br)	12	INTERMEDIATE CONNECTOR	AG-9
RL2	M	6	COMBINATION LAMP (L)	M-9
RL3	M	6	COMBINATION LAMP (R)	N-9
RL4	M	2	REAR WORK LAMP (OP)	M-9
RL5	M	2	REAR WORK LAMP (OP)	N-8
RT1	X	1	LICENSE LAMP (OP)	N-8
RT2	TERMINAL	1	BACK UP ALARM	M-9
RT3	TERMINAL	1	BACK UP ALARM	M-9
SH1	DT2	6	RPM SET MODE SW	R-9
SH2	(VC2)	8	RPM SET SET/RESUME SW	R-9
SP1	DT2 (B)	12	INTERMEDIATE CONNECTOR	AB-3
SP10	Relay	6	FRONT WORK LAMP (OP)	AB-7
SP11	Relay	6	REAR WORK LAMP (OP)	AB-7
SP12	Relay	5	STOP LAMP	AA-8
SP13	Relay	5	NEUTRAL SAFETY	Y-9
SP14	Relay	5	START AID	P-8
SP18	DT2	3	ACCUMULATOR / FLOAT SW (OP)	Q-9
SP19	(VCH)	8	HEAD LAMP SW	X-9
SP2	DT2 (Br)	12	INTERMEDIATE CONNECTOR	AB-4
SP20	(VCH)	8	HAZARD LAMP SW	Q-9
SP22	KES	4	FLASHER RELAY	AA-8
SP23	DT2	3	WORK LAMP SW (OP)	W-9
SP24	KES	4	FRONT WIPER SW	W-9
SP26	M	2	CAUTION BUZZER	O-5
SP27	TERMINAL	3	HORN RELAY	Y-9
SP29	DT2	2	TM MODE SW	Q-9
SP3	DT2 (Gr)	12	INTERMEDIATE CONNECTOR	AB-2
SP30	DT2	2	LIFTER LOCK SW	O-7
SP32	DT2	2	JUMPER SOCKET	S-5
SP33	DT2	2	JUMPER SOCKET	O-4
SP34	DT	2	DIODE (START AID RELAY)	P-9
SP4	DT2 (Gre)	12	INTERMEDIATE CONNECTOR	AB-3
SP7	Relay	5	FLOAT LH (OP)	AB-6
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