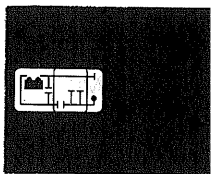


HARNESS LAYOUTS

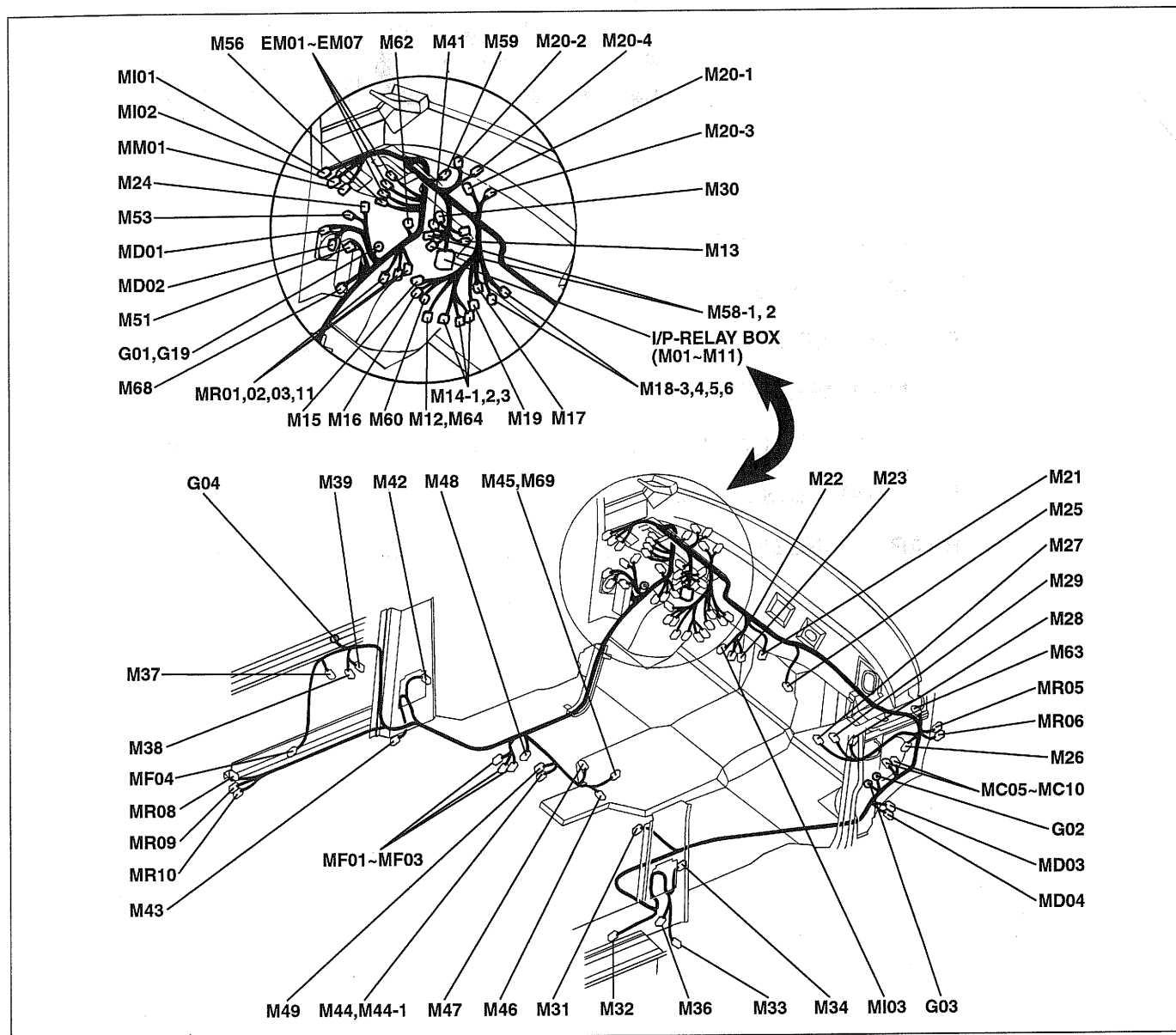
CONTROL HARNESS	HL-10
DOOR HARNESS	HL-13
ENGINE HARNESS	HL-6
FRAME HARNESS	HL-5
INSTRUMENT HARNESS	HL-9
MAIN HARNESS	HL-2
REAR HARNESS	HL-14



MAIN HARNESS

E5HC0010

MAIN HARNESS (1)



E5HC001A

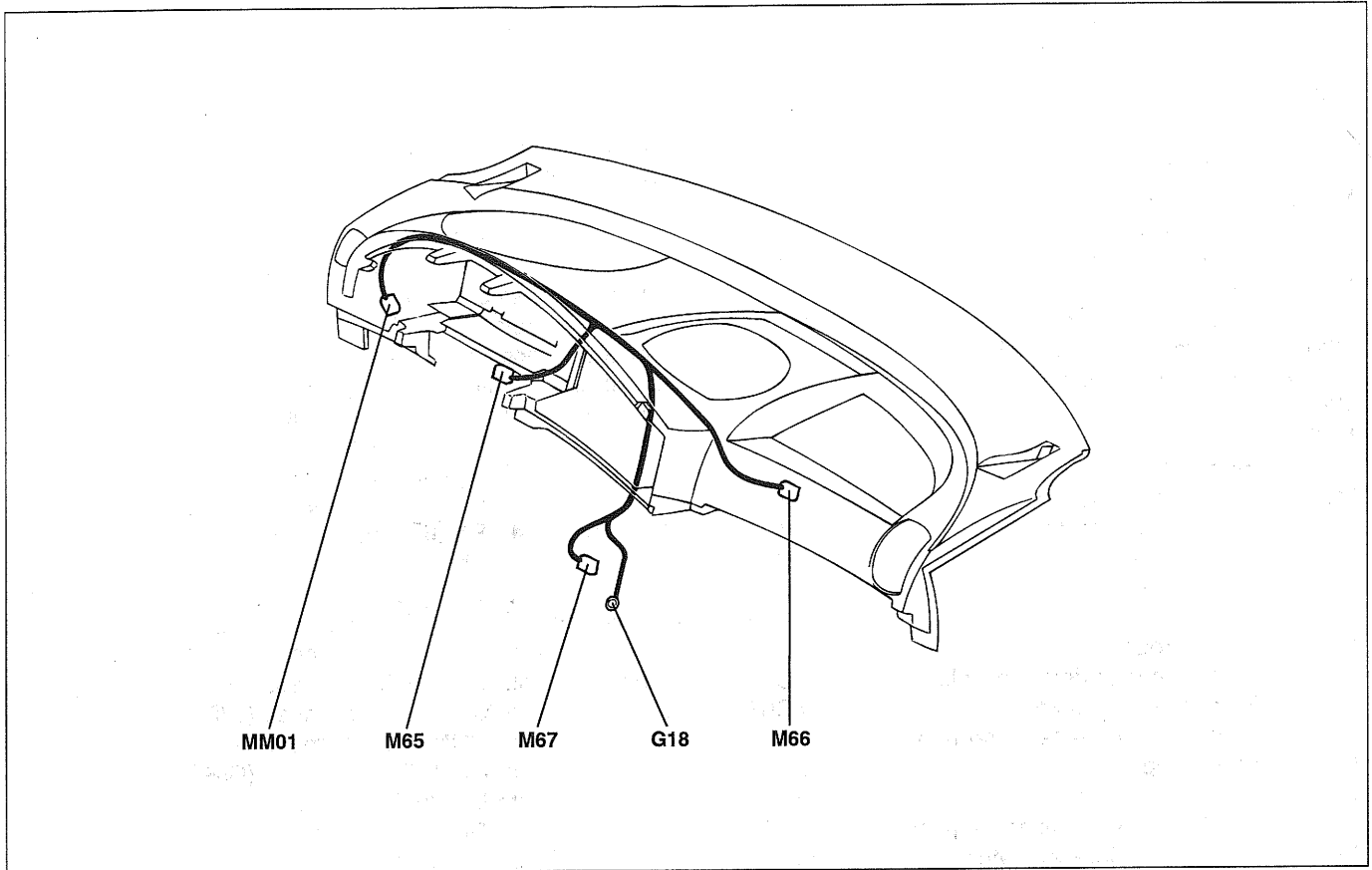
M01	Burglar alarm relay (horn)
M02	Power window relay
M03	Rear blower relay
M04	Rear fog lamp relay
M05	Front wiper motor relay
M06	Burglar alarm relay
M07	Power door unlock relay

M08	Rear window defogger relay
M09	Rear wiper relay
M10	Power door lock relay
M11	Flasher unit
M12	Immobilizer control module
M13	Hazard relay (With Burglar Alarm)
M14-1	Multifunction switch

MAIN HARNESS (2)

M14-2	Multifunction switch	M59	Joint connector
M14-3	Multifunction switch	M60	A/T Key solenoid
M16	Key ILL. & Door warning switch	M62	Joint connector
M17	Stop lamp switch (W/O C/RAIL)	M63	Joint connector
M18-3	TCM (COVEC-F & MPI)	M64	A/T Shift & Key lock control module
M18-4	TCM (COVEC-F & MPI)	M68	Fuel warning timer
M18-5	TCM (C/RAIL)	M69	A/T shift lever
M18-6	TCM (C/RAIL)	M80	Pre-excitation resistor (C/RAIL)
M19	Inner thermo sensor (4WD)	M81	Clutch pedal position switch (C/RAIL, M/T)
M20-1	Instrument cluster	M82	Driver room lamp (3VAN)
M20-2	Instrument cluster	M84	Main power relay (C/RAIL)
M20-3	Instrument cluster (A/T)	M85	Accelerator position sensor (W/O C/RAIL)
M20-4	Instrument cluster	M85-1	Accelerator position sensor (C/RAIL)
M21	Audio	EM01	Connection with ENGINE harness
M22	A/C switch	EM02	Connection with ENGINE harness
M23	Blower switch	EM03	Connection with ENGINE harness
M24	Data link connector	EM04	Connection with ENGINE harness (A/T)
M25	Thermostatic switch	EM05	Connection with ENGINE harness (4WD)
M26	Power antenna	EM06	Connection with ENGINE harness (ABS)
M27	Blower resistor	EM07	Connection with ENGINE harness
M28	Blower motor	MC05	Connection with CONTROL harness (COVEC-F)
M29	Blower relay	MC06	Connection with CONTROL harness (COVEC-F)
M30	Outside mirror defogger relay	MC07	Connection with CONTROL harness (MPI)
M31	Right seat belt switch (With seat belt tension reducer)	MC08	Connection with CONTROL harness (C/RAIL)
M32	Step lamp	MC09	Connection with CONTROL harness (MPI)
M33	Right door switch	MC10	Connection with CONTROL harness (C/RAIL)
M34	Right seat belt tension reducer	MD01	Connection with DOOR LH harness
M36	Sliding door lock actuator	MD02	Connection with DOOR LH harness
M37	Rear blower control switch	MD03	Connection with DOOR RH harness
M38	Rear blower main switch	MD04	Connection with DOOR RH harness
M40	Stop lamp switch (C/RAIL)	MF01	Connection with FRAME harness
M41	SMATRA (C/RAIL)	MF02	Connection with FRAME harness (RR Blower)
M42	Left seat belt tension reducer	MF03	Connection with FRAME harness (ABS)
M43	Left door switch	MF04	Connection with FRAME harness (RR Blower)
M44	Left seat belt switch (With seat belt tension reducer)	MI01	Connection with INSTRUMENT harness
M44-1	Left seat belt switch (W/O seat belt tension reducer)	MI02	Connection with INSTRUMENT harness
M45	Over driver switch (A/T)	MI03	Connection with BLOWER harness
M46	Parking brake switch	MM01	Connection with AIR BAG harness
M47	G-Sensor (4WD)	MR01	Connection with ROOF LH harness
M48	Transfer case control module (TCCM, 4WD)	MR02	Connection with ROOF LH harness (With overhead A/C)
M49	Seat warmer	MR03	Connection with ROOF LH harness (W/O overhead A/C)
M51	Diagnosis connector	MR05	Connection with ROOF RH harness
M53	Buzzer	MR06	Connection with ROOF RH harness
M56	Clutch pedal position switch (4WD)	MR08	Connection with REAR COMBINATION LAMP harness
M58-1	ETACM	MR09	Connection with REAR COMBINATION LAMP harness
M58-2	ETACM	MR10	Connection with REAR COMBINATION LAMP harness
		MR11	Connection with ROOF LH harness
		MR12	Connection with ROOF LH harness (VAN)
		Grounds	G01, G02, G03, G04, G19
		Diodes	Z01, Z02, Z03

MAIN HARNESS (AIR BAG) (2)



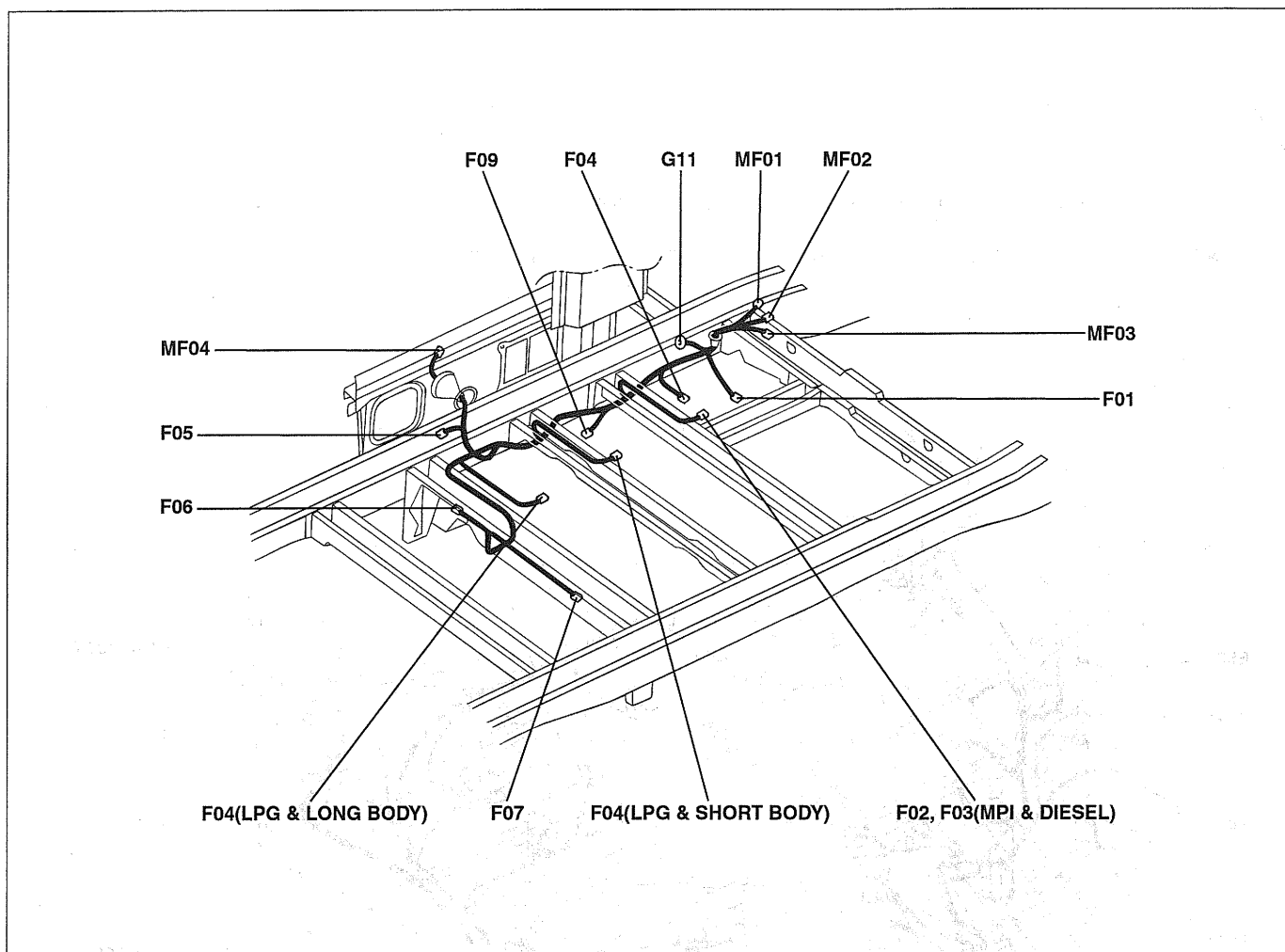
E5HC001B

M65	Steering wheel (Contact coil)
M66	Passenger air bag
M67	SRS control module
MM01	Connection with MAIN harness
Ground	G18

FRAME HARNESS

E5HC0050

FRAME HARNESS (1)



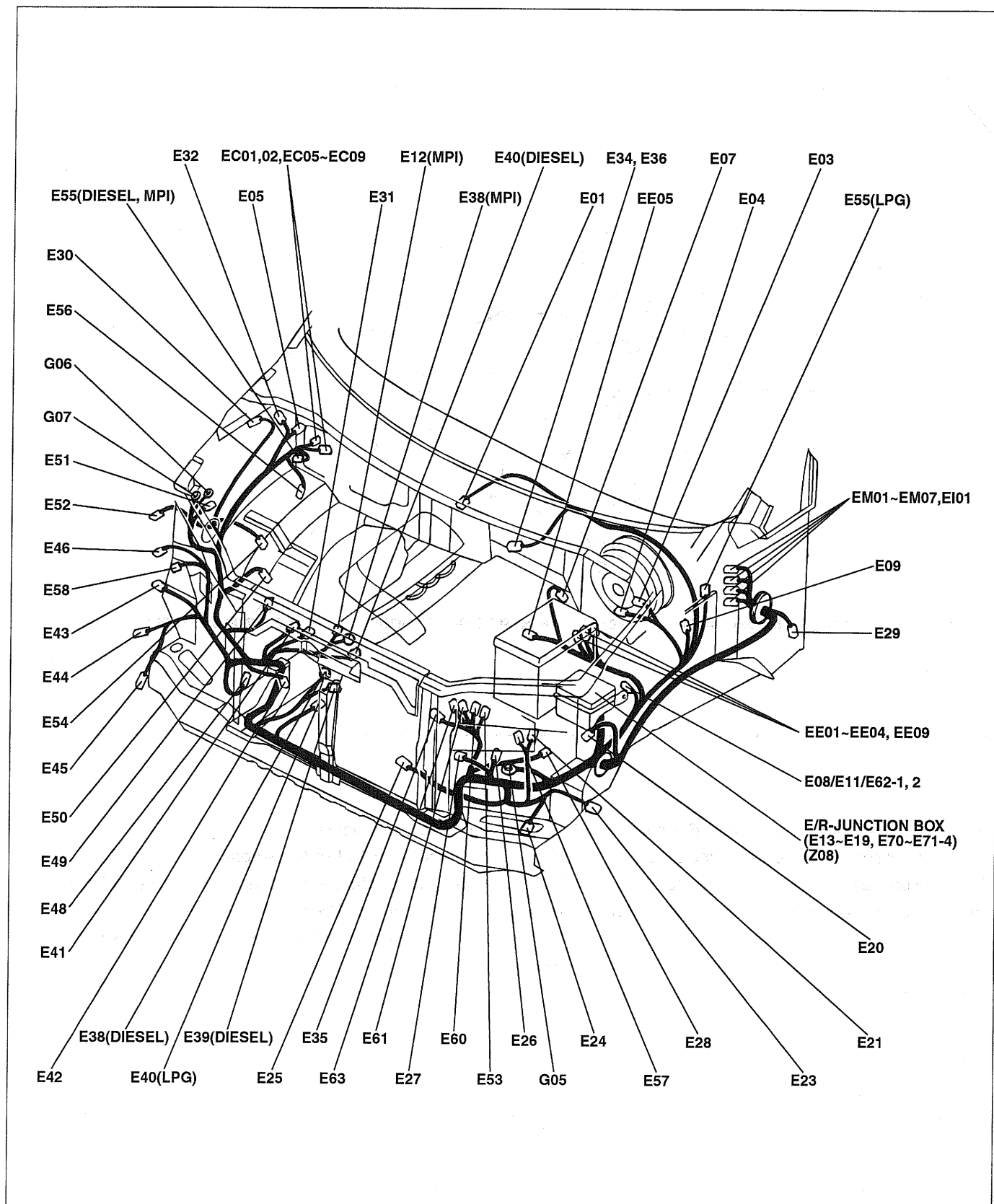
E5HC005A

F01	Condenser fan sub motor (RR A/C)	F09	LPG solenoid valve
F02	Fuel sender & Fuel pump motor (Diesel)	MF01	Connection with MAIN harness
F03	Fuel sender & Fuel pump motor (MPI)	MF02	Connection with MAIN harness (RR blower & RR A/C)
F04	Fuel sender & Fuel pump motor (LPG)	MF03	Connection with MAIN harness (ABS)
F05	Rear blower motor	MF04	Connection with MAIN harness (RR blower & RR A/C)
F06	Left rear wheel speed sensor	Ground	G11
F07	Right rear wheel speed sensor		

ENGINE HARNESS

E5HC0020

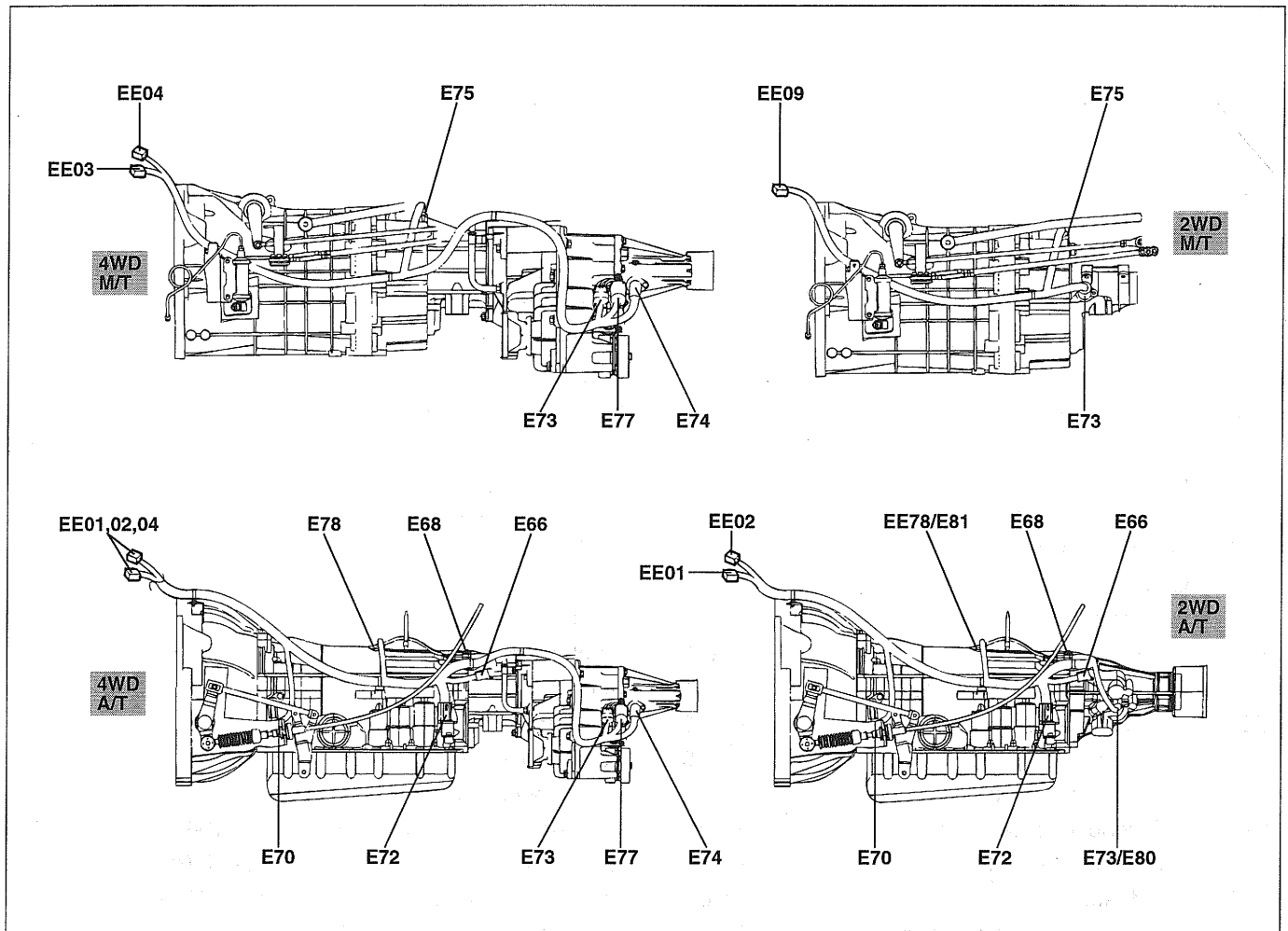
ENGINE HARNESS (1)



ENGINE HARNESS (2)

E01	Front wiper motor	E51	A/C pressure switch
E02	Joint connector	E52	Right front turn signal lamp
E03	Brake fluid level switch	E53	ABS relay (4WD)
E04	Thermo switch (C/RAIL)	E54	Front washer motor
E05	Start solenoid	E55	Siren
E06	Variable resistor (MPI)	E56	Hubs solenoid (4WD)
E07	Battery terminal	E57	Left head lamp leveling actuator
E08	Water separator switch (C/RAIL)	E58	Right head lamp leveling actuator
E09	Start relay	E59	Heater plug (C/RAIL)
E10	Fuel filter heater (C/RAIL)	E60	Heater relay #1 (C/RAIL)
E11	Water separator switch(COVEC-F)	E61	Heater relay #2(C/RAIL)
E12	Generator (MPI)	E62-1	Fuel filter heater switch (COVEC-F)
E13	A/C compressor relay	E62-2	Fuel filter heater (COVEC-F)
E14	4WD N/S relay (A/T)	E63	Fuel filter heater relay (C/RAIL)
E15	Front fog lamp relay	E64	Fuel filter heater relay (COVEC-F)
E16	Tail lamp relay	E69	ABS relay (2WD)
E17	Condenser fan main relay	E70	Joint connector
E18	Condenser fan sub relay	E70-1	Joint connector
E19	Horn relay	E70-2	Joint connector
E20	Left front turn signal lamp	E71-1	Joint connector
E21	Left head lamp	E71-2	Joint connector
E23	Left horn (High)	E71-3	Joint connector
E24	Left front fog lamp	E71-4	Joint connector
E25	Left condenser fan motor	EC01	Connection with CONTROL harness (MPI)
E26	Head lamp relay (High)	EC02	Connection with CONTROL harness (MPI)
E27	Head lamp relay (Low)	EC05	Connection with CONTROL harness (COVEC-F)
E28	Left front wheel speed sensor	EC06	Connection with CONTROL harness (COVEC-F)
E29	Left side repeater lamp	EC07	Connection with CONTROL harness (C/RAIL)
E30	Right side repeater lamp	EC08	Connection with CONTROL harness (C/RAIL)
E31	Power steering switch (LPG)	EC09	Connection with CONTROL harness (LPG)
E32	Fuel cut solenoid valve (LPG)	EE01	Connection with TRANSMISSION harness
E34	Idle-up solenoid valve	EE02	Connection with TRANSMISSION harness
E35	A/C compressor	EE03	Connection with TRANSMISSION harness
E36	MAP sensor (LPG)	EE04	Connection with TRANSMISSION harness
E38	Generator (B+)	EE05	Connection with BATTERY harness
E39	Generator (L,S) (Diesel)	EE09	Connection with TRANSMISSION harness
E40	Oil pressure switch	EI01	Connection with INSTRUMENT harness
E41	Right front wheel speed sensor	EM01	Connection with MAIN harness
E42	Thermo sensor (MPI, FR A/C)	EM02	Connection with MAIN harness
E43	Right horn (Low)	EM03	Connection with MAIN harness
E44	Right front fog lamp	EM04	Connection with MAIN harness (A/T)
E45	Outer thermo sensor (4WD)	EM05	Connection with MAIN harness (4WD)
E46	Right head lamp	EM06	Connection with MAIN harness (ABS)
E48	Right condensor fan motor	EM07	Connection with MAIN harness
E49	Hood switch	Grounds	G05, G06, G07
E50	ABS control module	Diodes	Z08, Z09, Z10

ENGINE HARNESS (TRANSMISSION) (3)



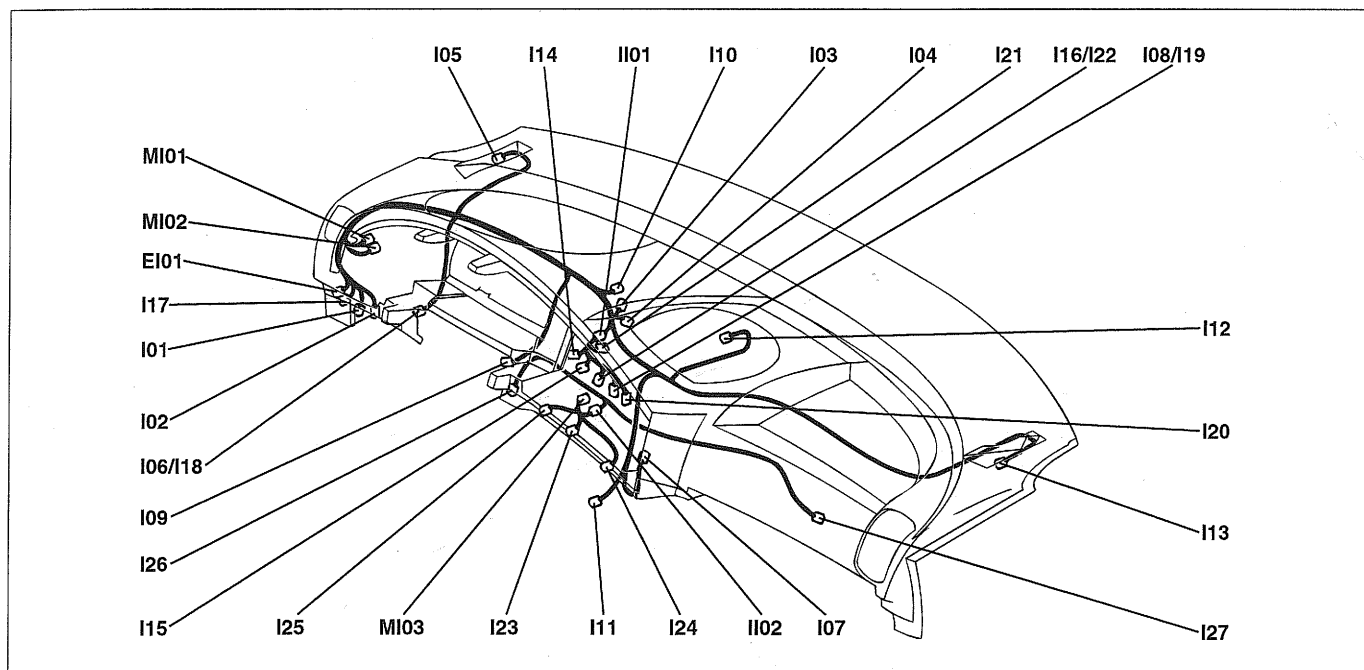
E5HC002B

E66	Speed sensor (Diesel)	E79	Co cylinder sensor
E68	Oil temperature sensor	E80	Speed sensor (MPI)
E72	A/T solenoid valve	E81	Transaxle range switch (MPI)
E73	Vehicle speed sensor	EE01	Connection with ENGINE harness
E74	Speed sensor (4WD)	EE02	Connection with ENGINE harness
E75	Back-up lamp switch (M/T)	EE03	Connection with ENGINE harness
E77	Position encoder (4WD)	EE04	Connection with ENGINE harness
E78	Transaxle range switch (Diesel)	EE09	Connection with ENGINE harness

INSTRUMENT HARNESS

E5HC0030

INSTRUMENT HARNESS (1)



E5HC003A

I01	Head lamp leveling device switch
I02	Rheostat
I03	Joint connector
I04	Joint connector
I05	Left tweeter speaker
I06	Seat warmer switch
I07	Digital clock
I09	Rear blower sub switch
I10	Joint connector
I11	Cigarette lighter
I12	Multimeter
I13	Right tweeter speaker
I17	Power/Hold switch
I18	LPG switch
EI01	Connection with ENGINE harness
I101	Connection with SWITCH EXT. harness
MI01	Connection with MAIN harness
MI02	Connection with MAIN harness

I14	Hazard switch
I15	Front fog lamp switch
I16	4WD switch
I19	Room lamp switch
I20	Rear window defogger switch
I21	Joint connector
I22	ECT switch
I101	Connection with INSTRUMENT harness

BLOWER HARNESS

I23	Inner/Outer switch & Mode switch
I24	Blower switch ILL.
I25	Temperature control panel ILL.
I102	Connection with BLOWER ACTUATOR harness
MI03	Connection with MAIN harness

BLOWER ACTUATOR HARNESS

I26	Mode actuator
I27	Intake actuator
I102	Connection with BLOWER harness

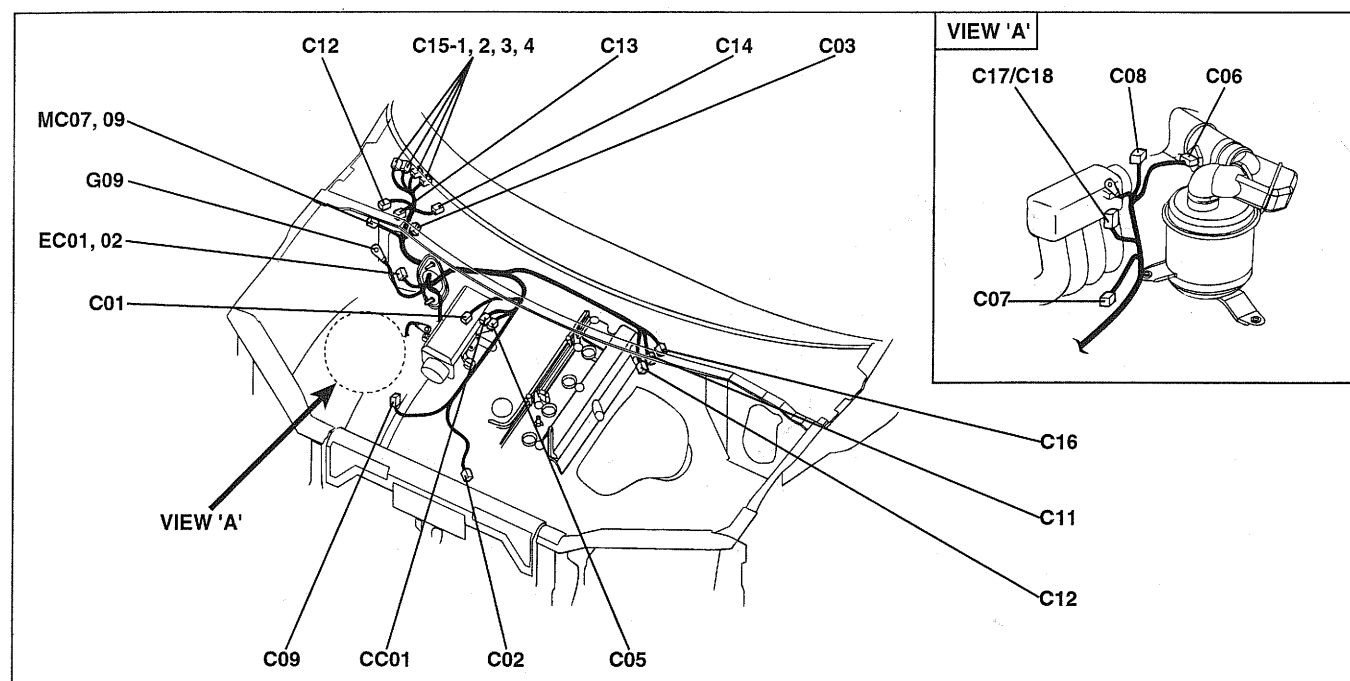
SWITCH EXTENSION HARNESS

I08	Rear fog lamp switch
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CONTROL HARNESS

E5HC0040

CONTROL HARNESS (MPI) (1)



E5HC004A

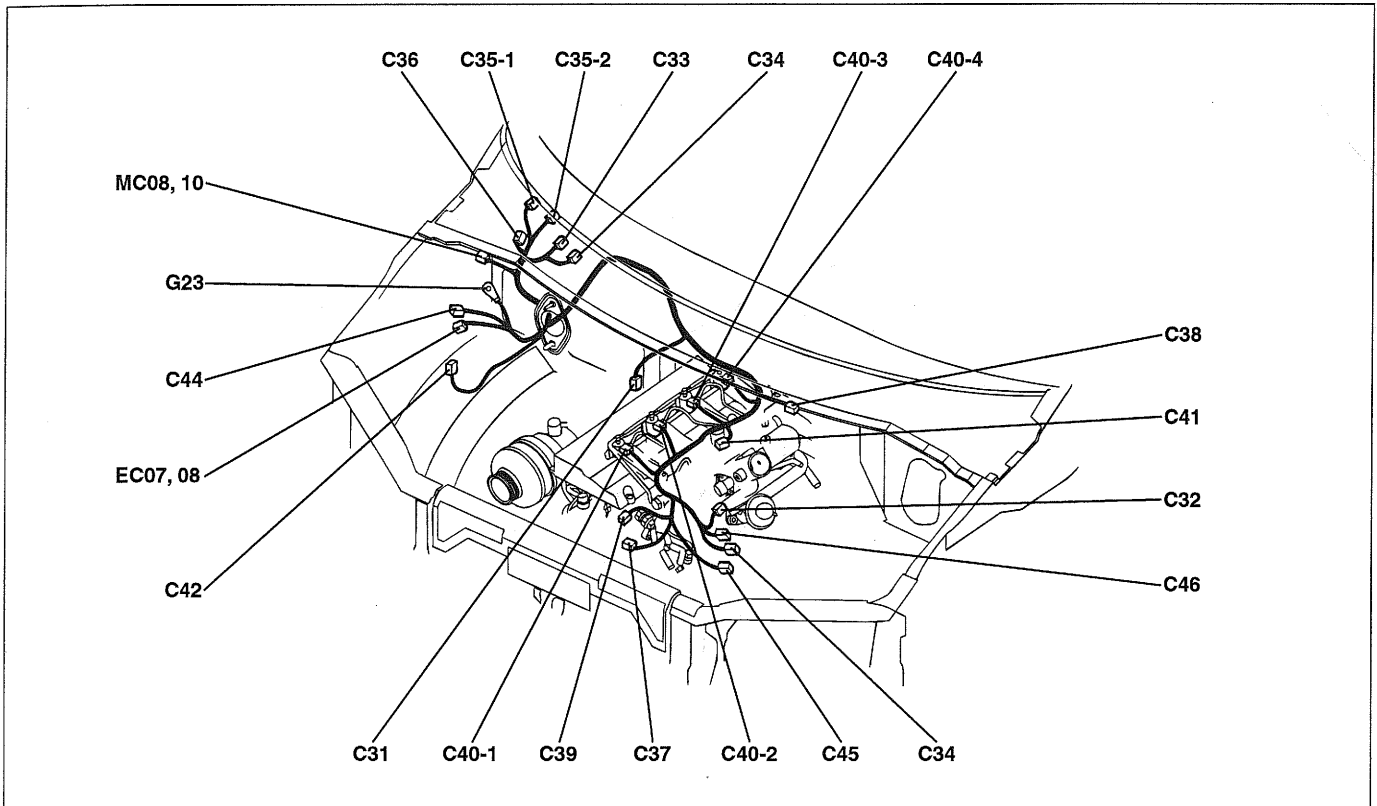
C01	MAP sensor
C02	Water temperature sensor & Sender
C03	Joint connector
C05	Crankshaft position sensor
C06	Air flow sensor
C07	Knock sensor
C08	Throttle position sensor
C09	Idle speed control actuator
C10	Front oxygen sensor
C11	Rear oxygen sensor (EOBD)
C12	Pre-excitation resistor
C13	Multipurpose check connector
C14	Engine control relay
C15-1	ECM
C15-2	ECM
C15-3	ECM
C15-4	ECM
C16	Camshaft position sensor
C17	Purge solenoid valve (EOBD)
C18	Purge solenoid valve (Except EOBD)

CC01	Connection with CONTROL EXT. harness
EC01	Connection with ENGINE harness
EC02	Connection with ENGINE harness
MC07	Connection with MAIN harness
MC09	Connection with MAIN harness
Ground	G09

CONTROL EXT.HARNESS

C23	Power steering pressure switch
C24	Condenser
C25	Ignition coil #1
C26	Ignition coil #2
C27	Ignition failure sensor (EOBD)
C28-1	Injector #1
C28-2	Injector #2
C28-3	Injector #3
C28-4	Injector #4
CC01	Connection with CONTROL harness

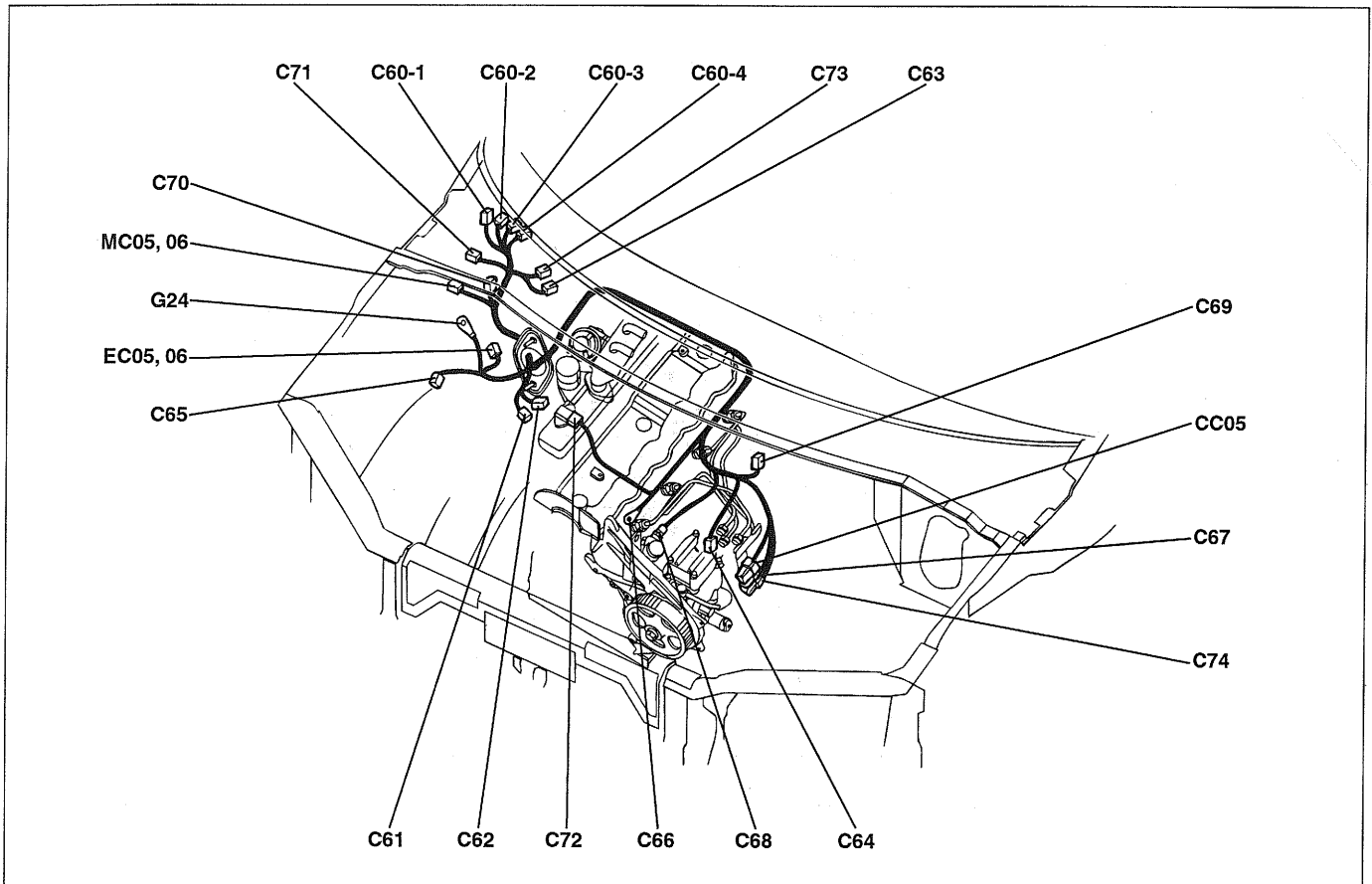
CONTROL HARNESS (C/RAIL) (2)



E5HC004B

C31	Glow plug	C40-3	Injector #3
C32	Air temperature switch	C40-4	Injector #4
C33	Inter cooler fan relay	C41	Rail pressure sensor
C34	Inter cooler fan motor	C42	Mass air flow sensor
C35-1	ECM	C43	Idle-up control module
C35-2	ECM	C44	Glow relay
C36	Joint connector	C45	Rail pressure regulator
C37	Water temperature sensor & Sender	C46	EGR solenoid valve
C38	Crankshaft position sensor	EC07	Connection with ENGINE harness
C39	Camshaft position sensor	EC08	Connection with ENGINE harness
C40-1	Injector #1	MC08	Connection with MAIN harness
C40-2	Injector #2	MC10	Connection with MAIN harness
		Ground	G23

CONTROL HARNESS (COVEC-F) (3)



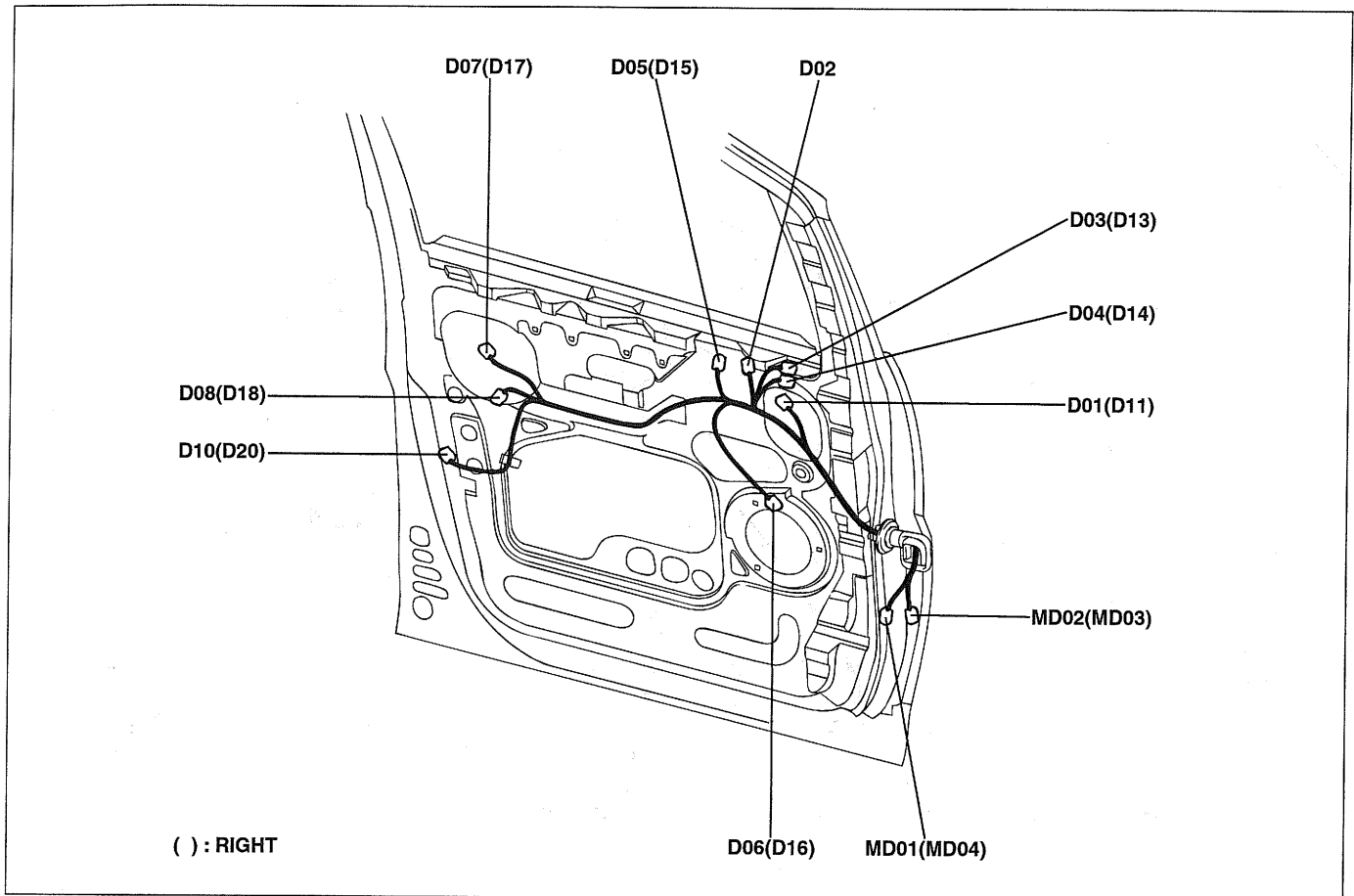
E5HC004C

C60-1	ECM	C68	Water temperature sensor & Sender
C60-2	ECM	C69	Camshaft position sensor
C60-3	ECM	C70	Joint connector
C60-4	ECM	C71	Pre-excitation resistor
C61	EGR solenoid valve (Speed)	C72	BPS & ATS
C62	EGR solenoid valve (Duty)	C73	Engine control relay
C63	Inter cooler fan relay	C74	NP sensor & FCV
C64	Inter cooler fan motor	CC05	Connection with INJECTOR harness
C65	Glow relay	EC05	Connection with ENGINE harness
C66	Glow plug	EC06	Connection with ENGINE harness
C67	Timing position sensor	MC05	Connection with MAIN harness
		MC06	Connection with MAIN harness
		Ground	G24

DOOR HARNESS

E5HC0060

DOOR HARNESS (1)



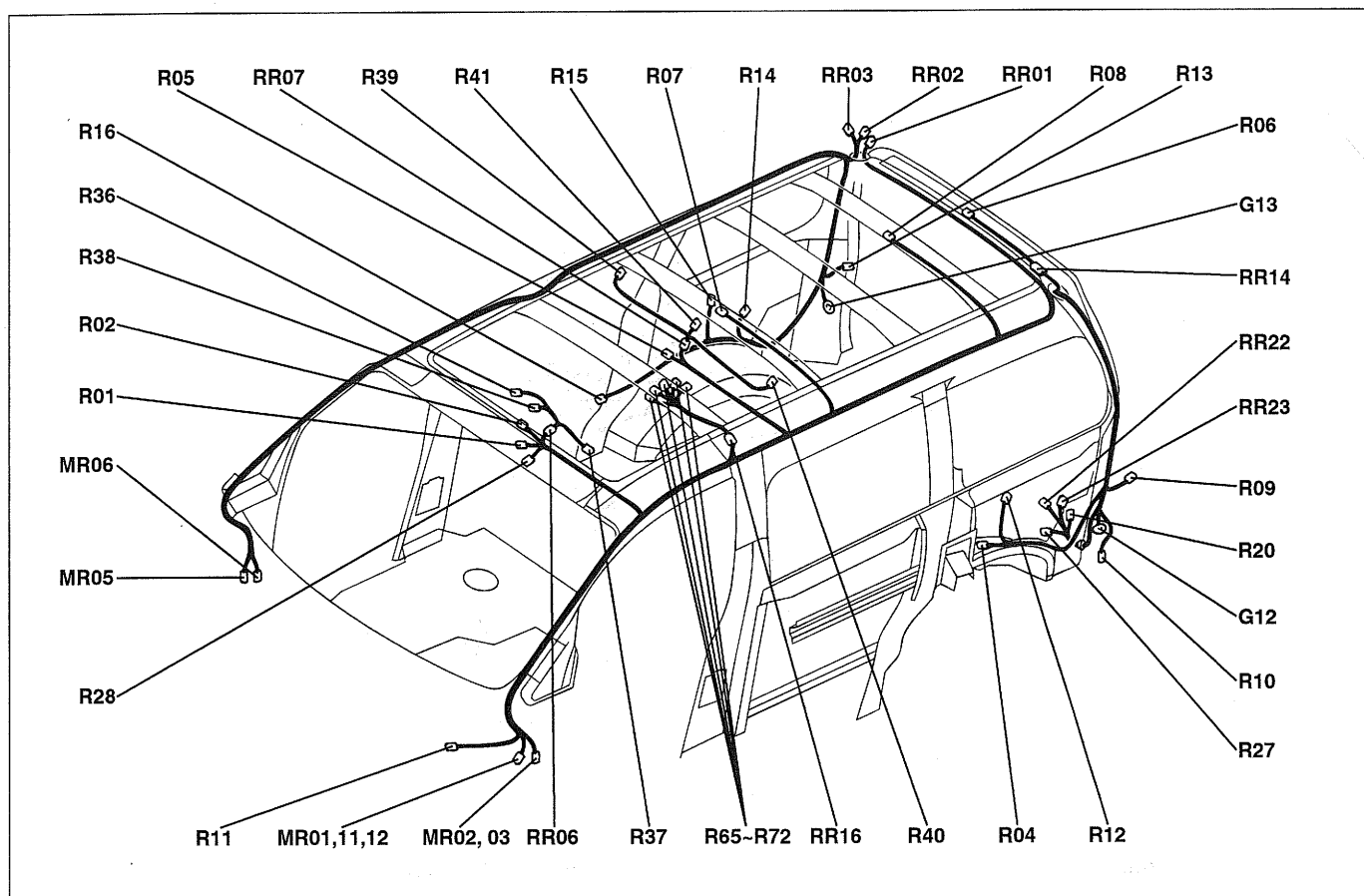
E5HC006A

D01	Left power window motor	D14	Right outside mirror defogger
D02	Power outside mirror switch	D15	Right front power window switch
D03	Left power outside mirror actuator	D16	Right door speaker
D04	Left outside mirror defogger	D17	Right door unlock switch
D05	Left power window main switch	D18	Right front door lamp
D06	Left door speaker	D20	Right door lock actuator
D07	Left door unlock switch	MD01	Connection with MAIN harness
D08	Left front door lamp	MD02	Connection with MAIN harness
D10	Left door lock actuator	MD03	Connection with MAIN harness
D11	Right power window motor	MD04	Connection with MAIN harness
D13	Right power outside mirror actuator		

REAR HARNESS

E5HC0070

REAR HARNESS (1)



E5HC007A

ROOF HANRESS

R01	Driver room lamp (W/O sunroof)
R02	Overhead console lamp (With sunroof)
R04	Back warning control module
R05	Rear sunroof switch
R06	High-mounted stop lamp
R07	Front room lamp
R08	Rear room lamp
R09	Outside left rear combination lamp
R10	Rear washer motor
R11	Back warning buzzer
R12	Left rear speaker
R13	Outside right rear combination lamp
R14	Socket

R15	Right rear speaker
R16	Sliding door switch
R20	Rear fog lamp
R27	Left side warning sensor
R28	Electronic chrome mirror (DOM)
MR01	Connection with MAIN harness
MR02	Connection with MAIN harness (With overhead A/C)
MR03	Connection with MAIN harness (W/O overhead A/C)
MR05	Connection with MAIN harness
MR06	Connection with MAIN harness
MR11	Connection with MAIN harness

REAR HARNESS (2)

MR12	Connection with MAIN harness (VAN)
RR01	Connection with TAIL GATE harness
RR02	Connection with TAIL GATE harness
RR03	Connection with TAIL GATE harness
RR06	Connection with FRONT SUNROOF harness
RR07	Connection with REAR SUNROOF harness
RR14	Connection with HIGH-MOUNTED STOP LAMP EXT.harness
RR16	Connection with OVERHEAD A/C harness
RR22	Connection with B. W. S harness
RR23	Connection with B. W. S harness
Ground	G12, G13

B.W.S HARNESS

R30	Left rear back warning sensor
R31	Right rear back warning sensor
R32	Right side warning sensor
RR22	Connection with ROOF harness
RR23	Connection with ROOF harness

FRONT SUNROOF HARNESS

R36	Right front sunroof relay
R37	Left front sunroof relay
R38	Front sunroof motor
RR06	Connection with ROOF harness

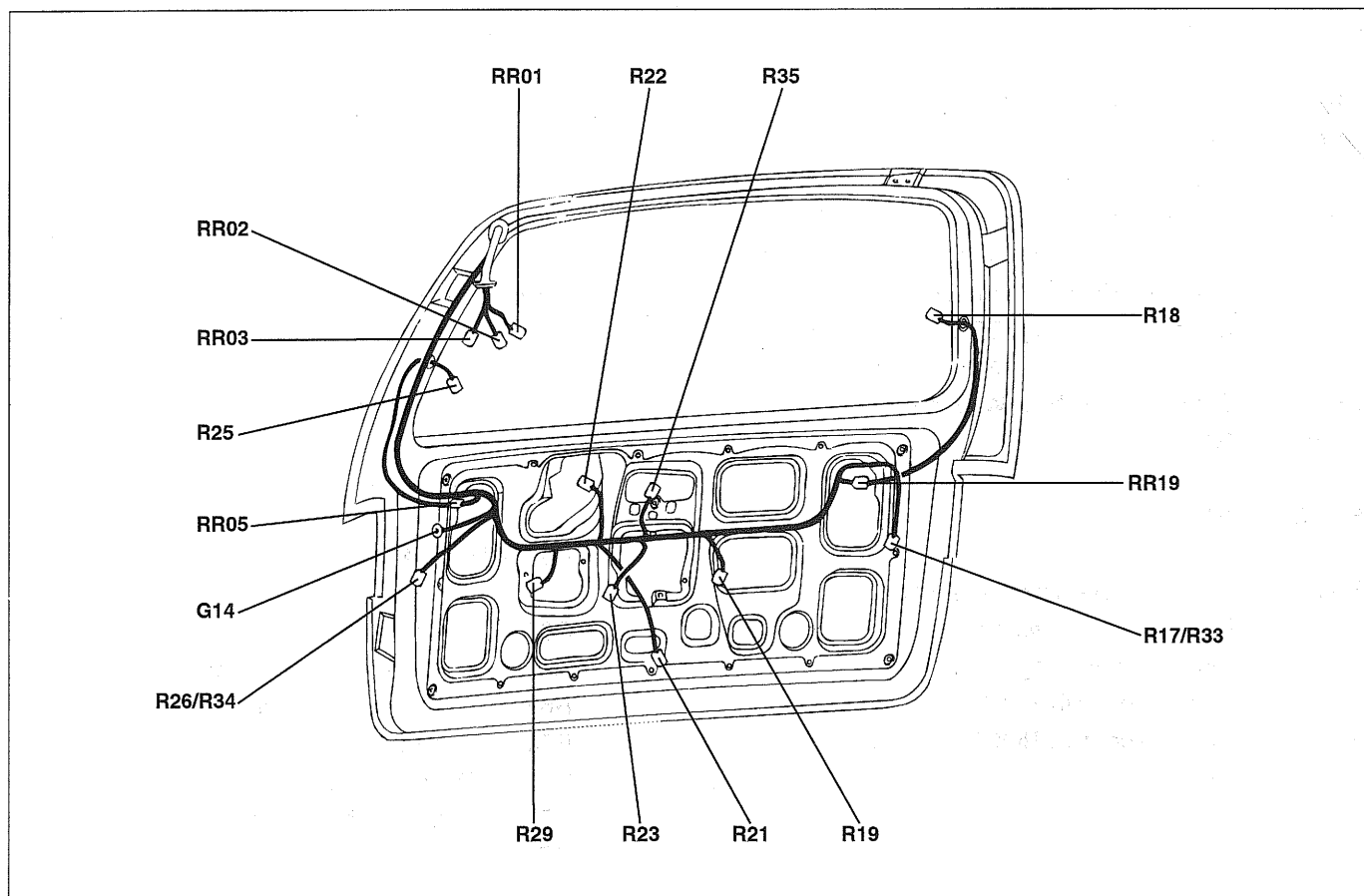
REAR SUNROOF HARNESS

R39	Right rear sunroof relay
R40	Left rear sunroof relay
R41	Rear sunroof motor
RR07	Connection with ROOF harness

OVERHEAD A/C HARNESS

R66	Overhead blower motor #1
R67	Overhead blower switch
R68	Overhead blower ILL.
R70	Overhead blower relay
R71	Overhead blower resistor
R72	Overhead blower motor #2
RR16	Connection with ROOF harness

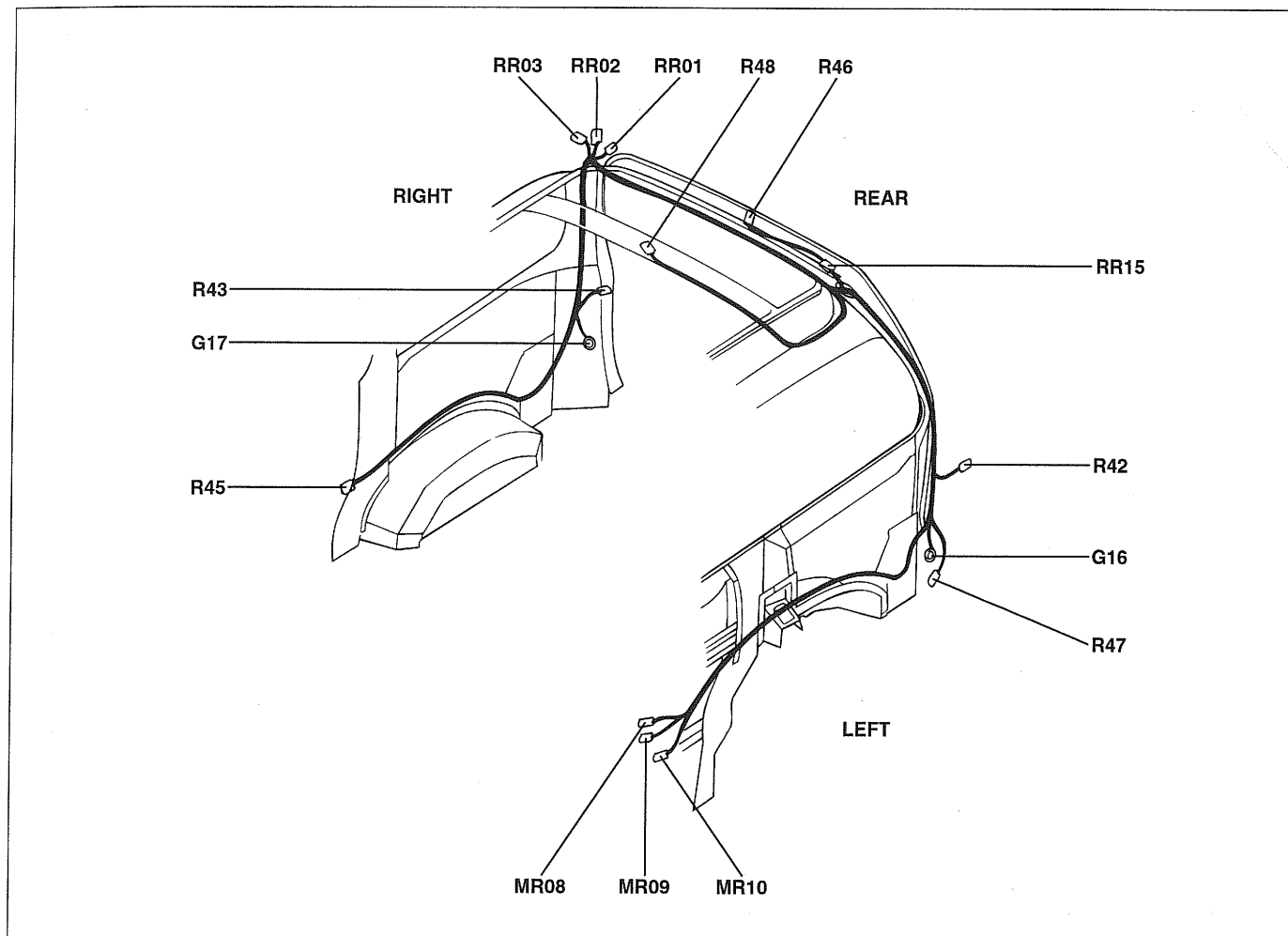
REAR HARNESS (TAIL GATE) (3)



E5HC007B

R17	Inside left rear combination lamp	R33	Inside left rear combination lamp (EC)
R18	Rear window defogger (-)	R34	Inside right rear combination lamp (EC)
R19	Left license lamp	R35	Tail gate unlock switch
R21	Tail gate lock switch	RR01	Connection with ROOF/REAR harness
R22	Rear wiper motor	RR02	Connection with ROOF/REAR harness
R23	Right license lamp	RR03	Connection with ROOF/REAR harness
R25	Rear window defogger (+)	RR05	Connection with DEFOGGER (+) harness
R26	Inside right rear combination lamp	RR19	Connection with DEFOGGER (-) harness
R29	Tail gate lock actuator	Ground	G14

REAR HARNESS (REAR COMBINATION LAMP) (4)



E5HC007C

MR08	Connection with MAIN harness	MR09	Connection with MAIN harness
R45	Outside left rear combination lamp	MR10	Connection with MAIN harness
R46	High-mounted stop lamp	RR01	Connection with TAIL GATE harness
R47	Rear washer motor	RR02	Connection with TAIL GATE harness
R48	Rear room lamp	RR03	Connection with TAIL GATE harness
R43	Outside right rear combination lamp	RR15	Connection with HIGH-MOUNTED STOP LAMP EXTENSION harness
G17	Ground		
G16	Ground		

