



GALLOPER

2002 Electrical Troubleshooting Manual



GALLOPER

Electrical Troubleshooting Manual

FOREWORD

This manual is intended for use by service technicians¹ of authorized Hyundai dealers to help them provide efficient and correct service and maintenance on Hyundai vehicle.

To ensure customer satisfaction with Hyundai products, proper service and maintenance by Hyundai technicians is essential. Consequently, it is important that service personnel fully understand the contents of this manual, which should be kept in a handy place for quick and easy reference.






All the contents of this manual, including photographs, drawings, and specifications, are the latest available at the time of printing. As modifications affecting service occur, dealers will be provided technical service bulletins or supplementary volumes. This manual should be kept carefully up-to-date upon receipt of the new information.

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DEC. 2001, Printed in Korea

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HOW TO USE THIS MANUAL

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INTRODUCTION

E1AC0310

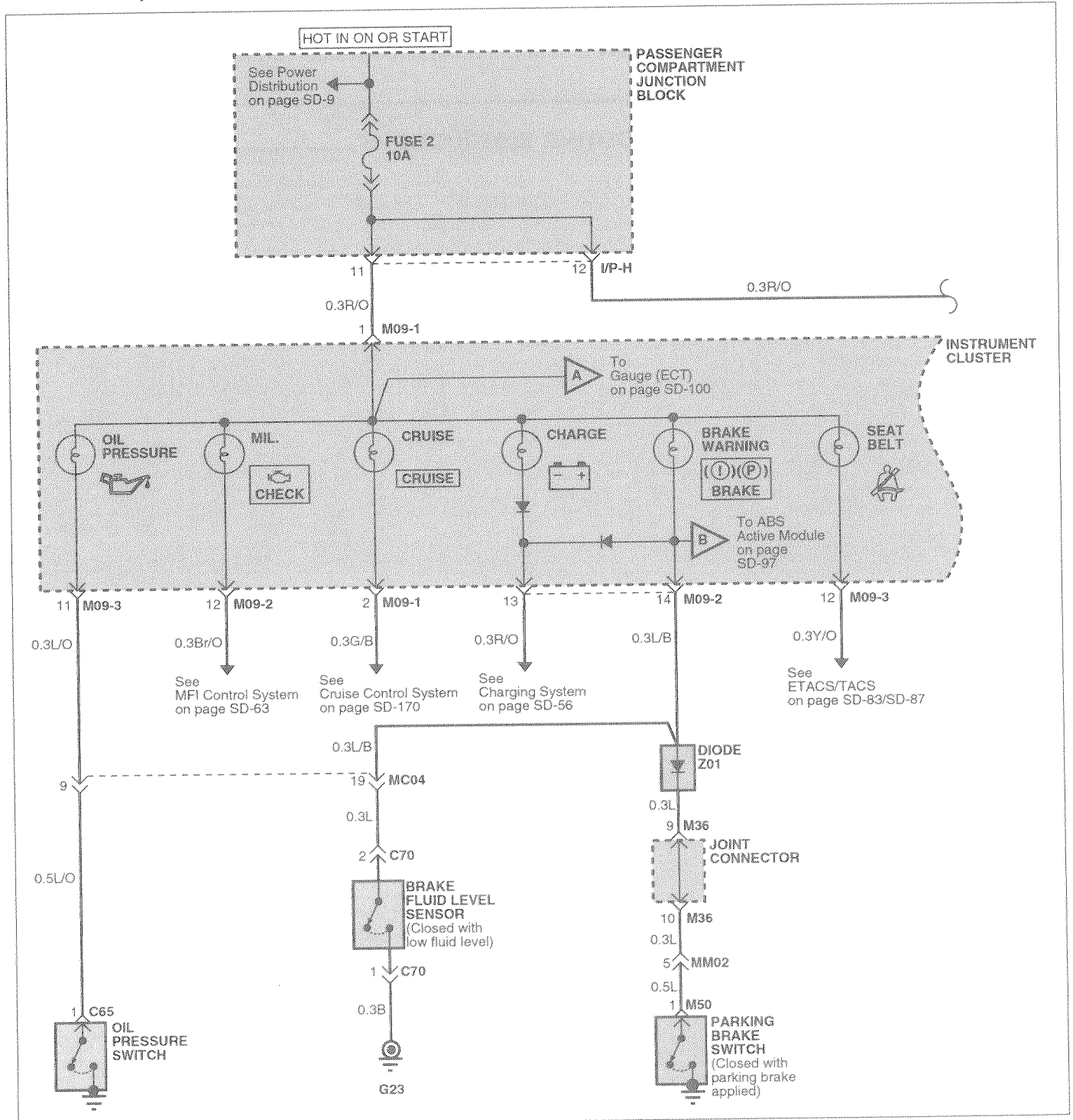
This Manual consists of five major diagnostic sections for electrical problem troubleshooting.

- Schematic diagrams
- Component location indexes
- Component locations
- Connector configurations
- Harness layouts

SCHEMATIC DIAGRAM

The starting point of each system section is the schematic diagram. These diagrams show how all the components work together, such as electrical current paths from power source to ground (via electrical load), switch connections at each position, and other related circuit functions.

It is important to fully understand how a circuit works prior to troubleshooting and diagnosis.



E2KC319F

COMPONENT LOCATION INDEXES

When you want to locate the schematic components on the vehicle, use the Component Location Index which follows each schematic. A Component Location Index lists major components, connectors, grounds, diodes, and their physical location and page reference.

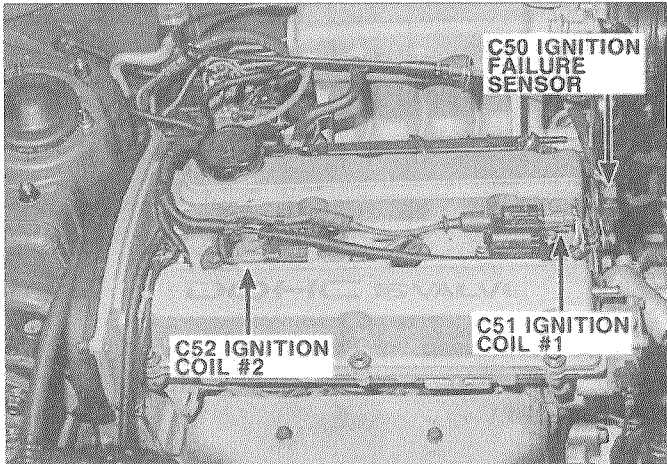
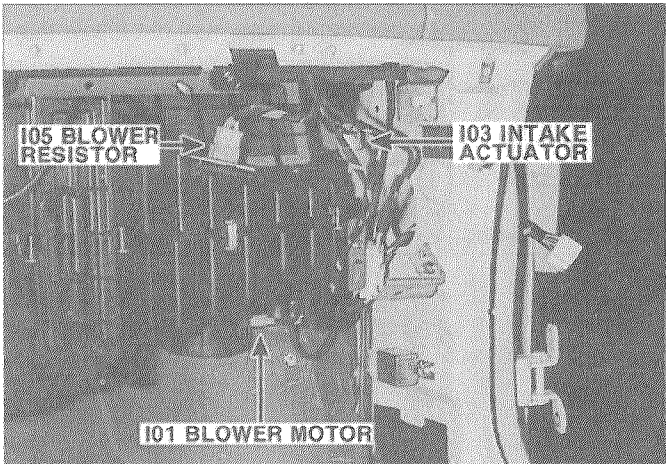
Almost all components, connectors or grounds, and diodes shown on a schematic can be pinpointed visually by using the Component Location Illustrations.

Components		Location Reference Page
I12	Digital clock	CL-15
I16-1	Instrument cluster	CL-15
M55	Fuel sender	CL-19
M56	Fuel pump	CL-19
C34	Engine coolant temperature sender	CL-5, CL-8
Connectors		
MI01/MI02/MI03		CL-21
MC02		CL-21
CC02		CL-8
Grounds		
G04		CL-23
G07		CL-23
Diodes		
Z01		CL-24
Z02		CL-24

YGI-003A

COMPONENT LOCATIONS

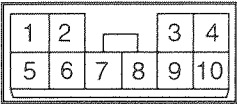

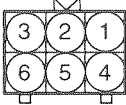
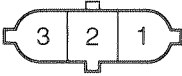
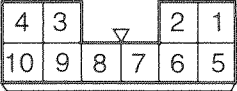
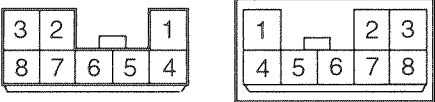
Component Locations make it easy to find the schematic components on the vehicle shown in the Component Location Index.



CONNECTOR CONFIGURATIONS

This section shows the cavity or terminal locations in all the multi-pin connectors shown in the schematic diagrams. It will help you to locate check points, together with the wire colors and terminal numbers in the schematic. The configuration drawings show the connector view as seen from a

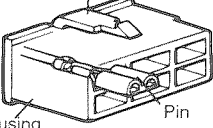
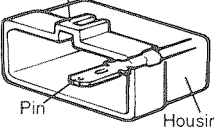
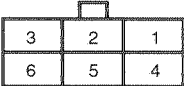
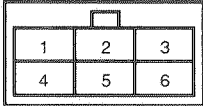
component after the harness connector has been disconnected. When more than one connector is connected to a component, the connectors are all shown together. Both halves of in-line connectors are shown together.

<div>M04</div> <div></div> <div>CR10M003</div>	<div>M05</div> <div></div> <div>CR16F022</div>	<div>E21</div> <div></div> <div>CR06F016</div>	<div>E22</div> <div></div> <div>CR03F017</div>
<div>I/P-J</div> <div></div> <div>CR10F015</div>	<div>BLANK</div>	<div>MD03</div> <div></div> <div>CR08B006</div>	

E1AA001A

CONNECTOR VIEW AND NUMBERING ORDER

1. CONNECTOR VIEW

	Female	Male	Remarks
Actual Illustration	<div></div> <div>MGI-002A</div>	<div></div> <div>MGI-003A</div>	<p>It is not the shape of the connector housing, but the connector pin that distinguishes between male or female connectors.</p> <p>When numbering female and male connectors, refer to the numbering order in the following table.</p> <p>Some connectors may not follow this method of numbering order.</p> <p>For individual detailed numbering, refer to the CONNECTOR CONFIGURATIONS.</p>
Illustration in the Shop manual	<div></div> <div>E1AA001B</div>	<div></div> <div>E1AA001C</div>	

NOTE

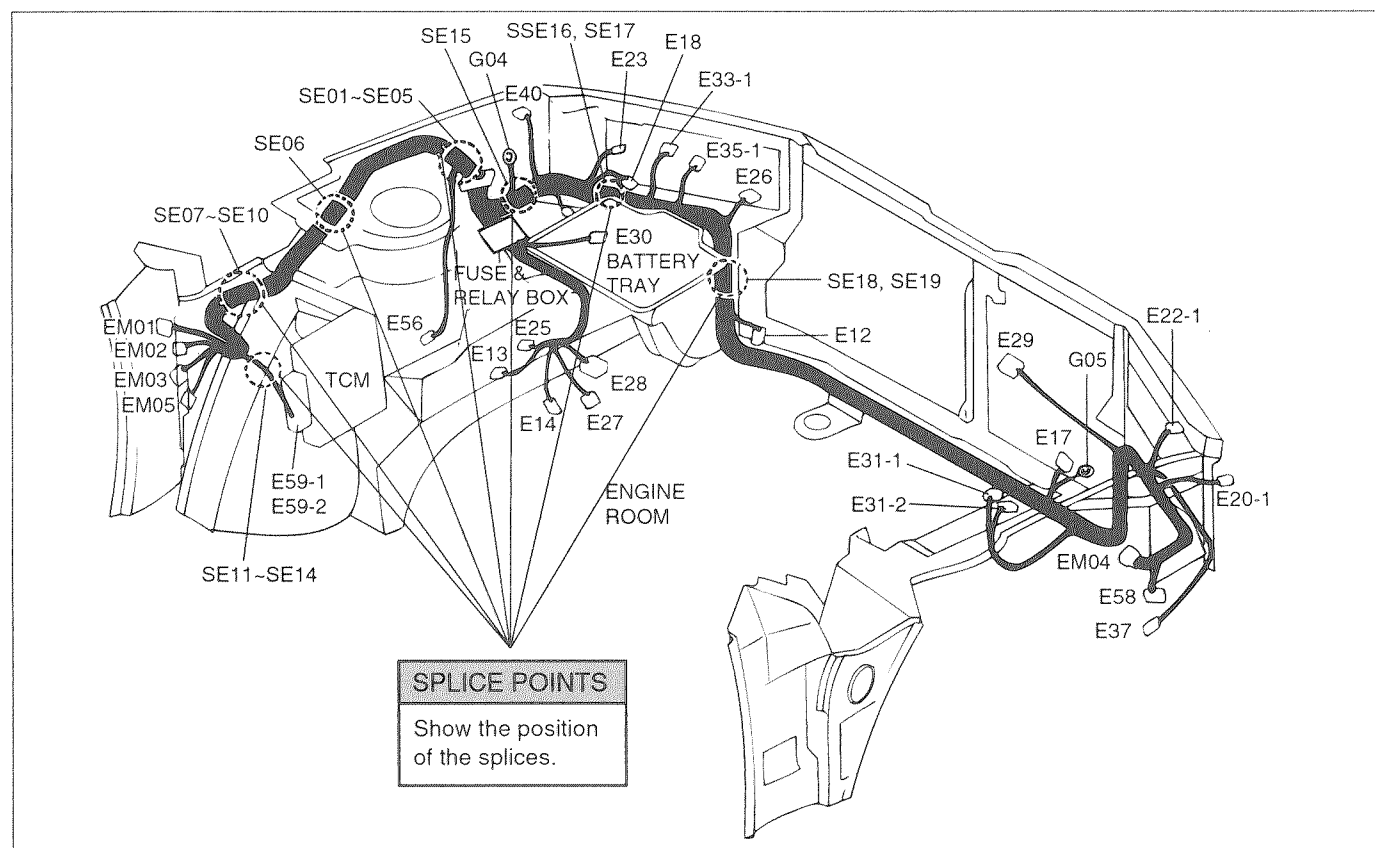
UNLESS OTHERWISE STATED, ALL CONNECTOR VIEWS ARE FROM THE TERMINAL SIDE OF THE CONNECTOR.

2. NUMBERING ORDER

	Numbering order	Remarks
Female Connector	<p style="text-align: right;">E1AA001D</p>	Numbered in order from upper right to lower left
Male Connector	<p style="text-align: right;">E1AA001E</p>	Numbered in order from upper left to lower right

HARNESS LAYOUTS

Harness layouts show the routing of the major wiring harnesses, the in-line connectors and the splices between the major harnesses. These layouts will make electrical troubleshooting easier.



SYMBOLS

E1XC0020

The symbols and abbreviations explained in this section are used throughout the manual.

SYMBOLS IN SCHEMATIC

Components



A solid line means the entire component is shown.



A broken line indicates only part of the component is shown.



STOP LAMP SWITCH
Closed with pedal depressed

The name of the component appears next to its upper right corner.

Notes about component function follow its name.

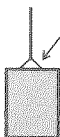
Connectors



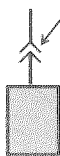
Male connector
M05-2
Female connector

Connector number

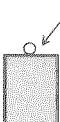
Connector cavity number



This means the connector connects directly to the component.



This indicates the connector connects to a lead (pigtail), wired directly to the component.



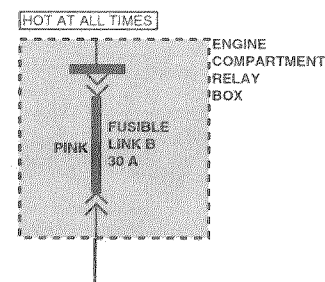
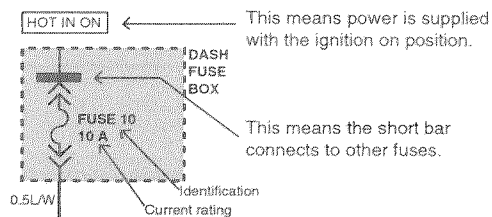
This indicates a screw terminal on the component.

Diode



This diode allows current to flow only in the direction of the arrow.

Fuse and Fusible link

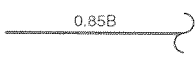


Circuit Breaker

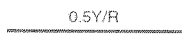


Basically a reusable fuse, a circuit breaker will heat and open if too much current flows through it. Some units automatically reset when cool, others must be manually reset.

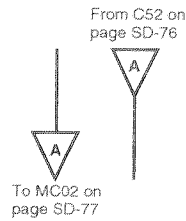
Wires



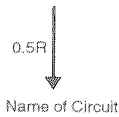
A wavy line means the wire is broken but is to be continued.



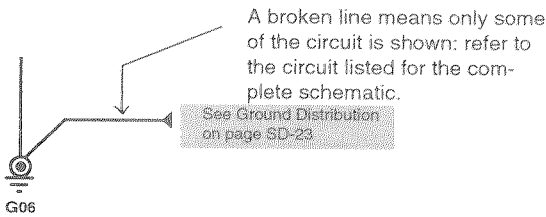
Wire insulation is yellow with a red strip.



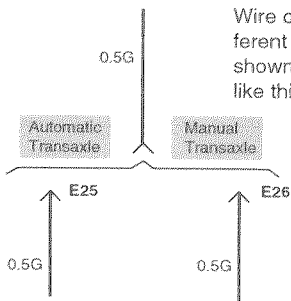
Current path is continued on the same page or another page. The arrow shows the direction of current flow. You should look for the "A" in the marked position.



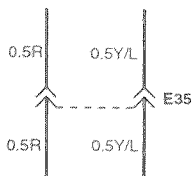
A wire connects to another circuit. The wire is shown again on that circuit which the arrow is pointing.



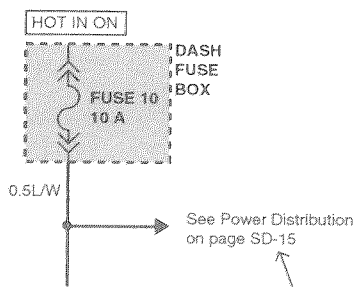
A broken line means only some of the circuit is shown: refer to the circuit listed for the complete schematic.



Wire choices for options or different models are labeled and shown with a "choice" bracket like this.

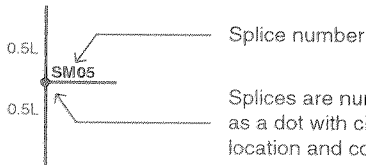


This dashed line means the RED and YELLOW/BLUE wires are both in connector E35.



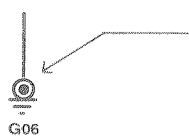
Where separate wires join, only the splice is shown: for details on the additional wiring, refer to the circuit listed.

Splices



Splices are numbered and shown as a dot with circle. The exact location and connection of these splices may vary among vehicles.

Ground - "G"

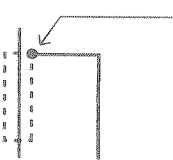


This symbol means the end of the wire is attached to a metal part of the vehicle.

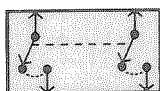


This ground symbol (dot and 3 lines overlapping the component) means the housing of the component is attached to a metal part of the vehicle.

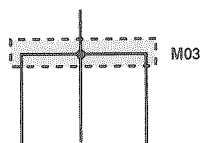
Shield Wire



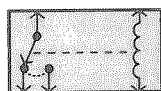
This represents RFI (Radio Frequency Interference) Shielding around a wire. The shielding is always connected to ground.

Switches

These switches move together; a dashed line shows a mechanical connection between them.

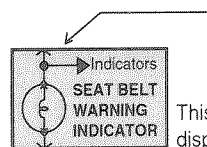
Joint Connectors

This is a connector showing the joining wires.

Relays

This is a relay shown with no current flowing through its coil. When a current flows through coil, contact will toggle.

Normally open contact
Normally closed contact

Indicator

This indicates seat belt warning indicator continues to other indicators within instrument cluster.

This is an indicator which displays the lighted symbol.

YGI-008A

WIRE COLOR ABBREVIATIONS

The following abbreviations are used to identify wire colors in the circuit schematics :

Symbol	Color of wire	Symbol	Color of wire
B	Black	T	Tan
Br	Brown	O	Orange
G	Green	P	Pink
Gr	Gray	R	Red
L	Blue	W	White
Lg	Light green	Y	Yellow

HARNESS CLASSIFICATION

Electrical wiring connectors are classified according to the wiring parts in the Harness Layouts.

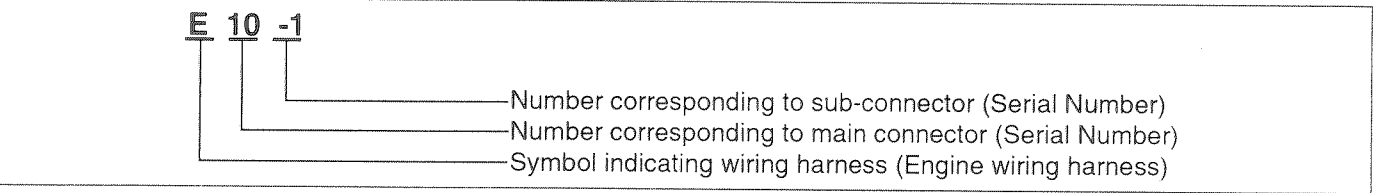
Harness name	Location	Symbol
Front harness	Engine compartment, Passenger compartment, Transmission	E
Fan motor harness, Engine harness, Front bumper harness, T/M Harness		
Body harness	Floor, Passenger compartment	M
Frame harness	Rear, Frame	F
Back door harness, Roof harness	Rear, Roof, Floor	R
Front door harness, Rear door harness	Door	D
A/C harness, A/Bag harness	Blower unit	A

CONNECTOR IDENTIFICATION

A connector identification symbol consists of a wiring harness location classification symbol corresponding to a wiring harness location and number corresponding to the

connector. These connector locations can be found in the HARNESS LAYOUTS.

For example :

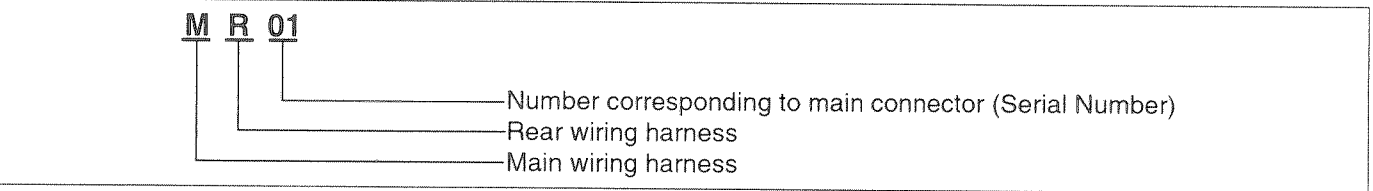


XGI-009A

NOTE

Connectors which connect each wiring harness are represented by the following symbols.

For example :



XGI-009B

TROUBLESHOOTING INSTRUCTIONS

E1AC0330

TROUBLESHOOTING PROCEDURES

The following five-step troubleshooting procedure is recommended.

1. Verify the customer's complaints

Turn on all the components in the problem circuit to check the accuracy of the customer's complaints. Note the symptoms. Do not begin disassembly or testing until you have narrowed down the probable causes.

2. Read and analyze the schematic diagram

Locate the schematic for the problem circuit. Determine how the circuit is supposed to work by tracing the current paths from the power source through the system components to ground. If you do not understand how the circuit should work, read the circuit operation text. Also check other circuits that share with the problem circuit. The name of circuits that share the same fuse, ground, or switch, for example, are referred to on each diagram. Try to operate any shared circuits you did not check in step 1. If the shared circuit works, the shared wiring is okay, and the cause must be within the wiring used only by the problem circuit. If several circuits fail at the same time, the fuse or ground is a likely cause.

3. Inspect the circuit/ component with the problem isolated

Make a circuit test to check the diagnosis you made in step 2. Remember that a logical, simple procedure is the key to efficient troubleshooting. Narrow down the probable causes using the troubleshooting hints and system diagnosis charts. Test for the most likely cause of failure first. Try to make tests at points that are easily accessible.

4. Repair the problem

Once the problem is found, make the necessary repairs.

5. Make sure the circuit works

Repeat the system check to be sure you have repaired the problem. If the problem was a blown fuse, be sure to test all of the circuits on that fuse.

TROUBLESHOOTING EQUIPMENT

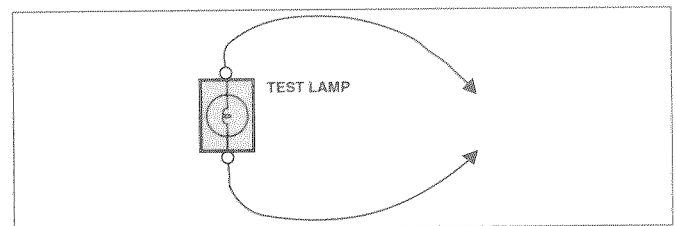
VOLTMETER AND TEST LAMP

Use a test lamp or a voltmeter on circuits without solid-state units and use a test lamp to check for voltage. A test lamp is made up of a 12-volt light bulb with a pair of leads attached. After grounding one lead, touch the other lead to various points along the circuit where voltage should be present. When the bulb goes on, there is voltage at the point being tested.

CAUTION

A number of circuits include solid-state modules, such as the Engine Control Module (ECM), used with computer command control injection. Voltage in these circuits should be tested only with a 10-megaohm or higher impedance digital voltmeter. Never use a test lamp on circuits that contain solid-state modules. Damage to the modules may result.

A voltmeter can be used in place of a test lamp. While a test lamp shows whether the voltage is present or not, a voltmeter indicates how much voltage is present.



YGI-011A

SELF-POWERED TEST LAMP AND OHMMETER

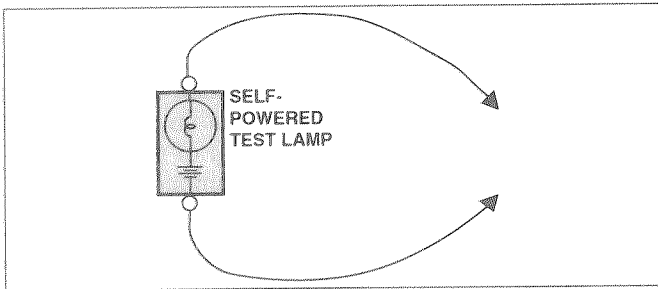
Use a self-powered test lamp or an ohmmeter to check for continuity. The ohmmeter shows how much resistance there is between two points along a circuit. Low resistance means good continuity.

CAUTION

Never use a self-powered test lamp on circuits that contain solid state modules. Damage to these modules may result.

An ohmmeter can be used in place of a self-powered test lamp. The ohmmeter shows how much resistance there is between two points along a circuit. Low resistance means good continuity.

Circuits which include any solid-state devices should be tested only with a 10-megaohm or higher impedance digital multimeter. When measuring resistance with a digital multimeter, the battery negative terminal should be disconnected. Otherwise, there may be incorrect readings. Diodes and solid-state devices in a circuit can make an ohmmeter give a false reading. To find out if a component is affecting a measurement, take one reading, reverse the leads and take a second reading. If different, the solid-state device is affecting the measurement.



YGI-011B

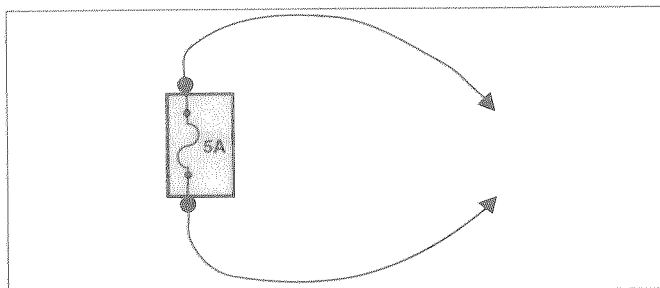
JUMPER WIRE WITH FUSE

Use a jumper wire with a fuse to by-pass an open circuit.

A jumper wire is made up of an in-line fuse holder connected to a set of test leads. This tool is available with small clamp connectors providing adaption to most connectors without damage.

CAUTION

Do not use a fuse with a higher rating than the specified fuse that protects the circuit being tested. Do not use this tool in any situation to substitute an input or output at the solid-state control module, such as ECM, TCM, etc.



YGI-012A

SHORT FINDER

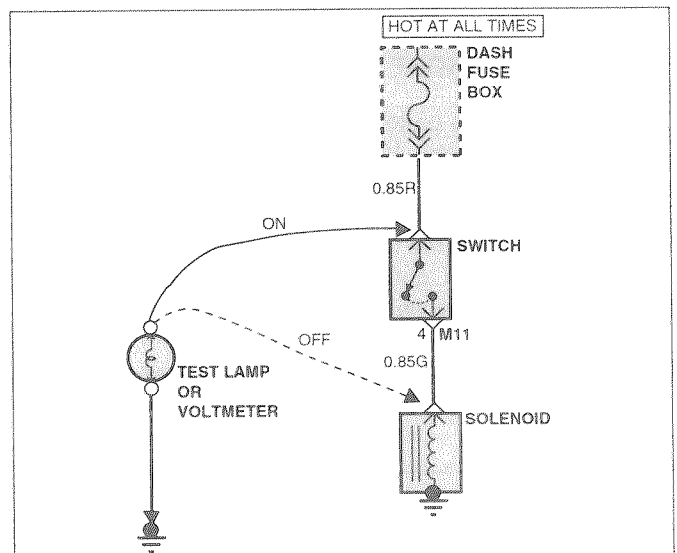
A short finder is available to locate a short to ground. The short finder creates a pulsing magnetic field in the shorted circuit and shows you the location of the short through body trim or sheet metal.

TROUBLESHOOTING TEST

TESTING FOR VOLTAGE

This test measures voltage in a circuit. When testing for voltage at a connector, you do not have to separate the two halves of the connector. Instead, probe the connector from the back (backprobe). Always check both sides of the connector because dirt and corrosion between its contact surfaces can cause electrical problems.

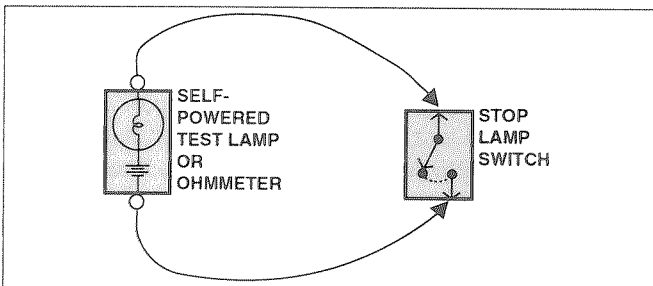
1. Connect one lead of a test lamp or voltmeter to a ground. If you are using a voltmeter, be sure it is the voltmeter's negative test lead you have connected to ground.
2. Connect the other lead of the test lamp or voltmeter to a selected test point (connector or terminal).
3. If the test lamp glows, there is voltage present. If you are using a voltmeter, note the voltage reading. A loss of more than 1 volt from specification indicates a problem.



YGI-013A

TESTING FOR CONTINUITY

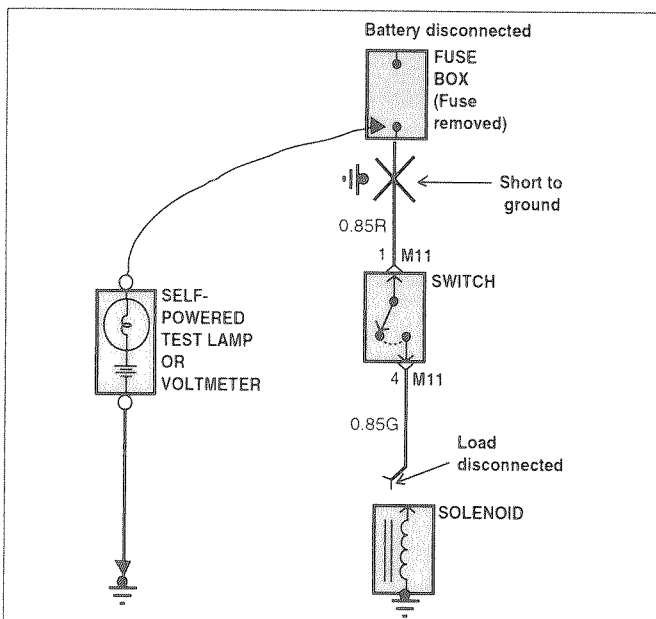
1. Disconnect the battery negative terminal.
2. Connect one lead of a self-powered test lamp or ohmmeter to one end of the part of the circuit you wish to test. If you are using an ohmmeter, hold the leads together and adjust the ohmmeter to read zero ohms.
3. Connect the other lead to the other end.
4. If the self-power test lamp glows, there is continuity. If you are using an ohmmeter, low or zero resistance means good continuity.



YGI-013B

TESTING FOR SHORT TO GROUND

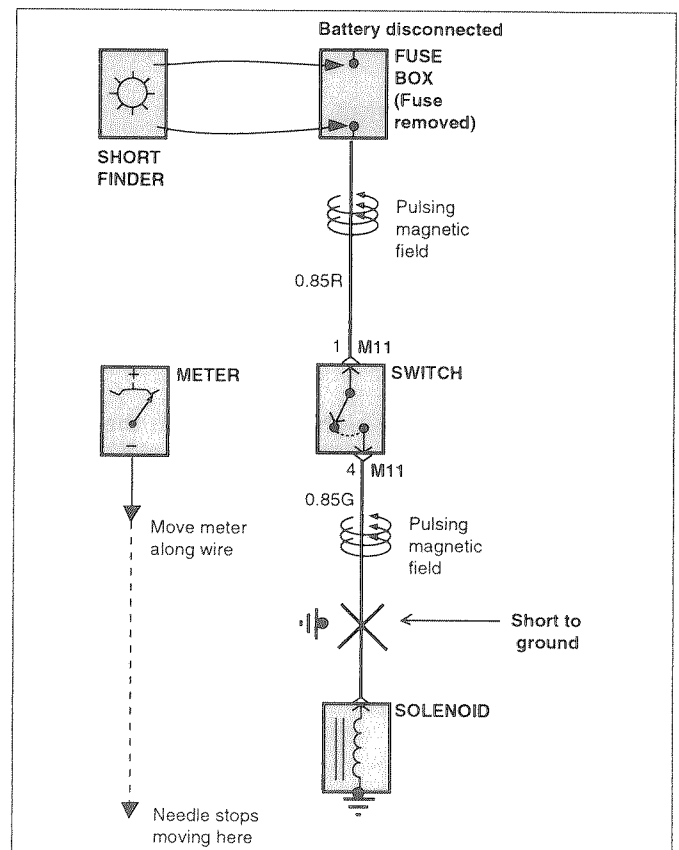
1. Disconnect the battery negative terminal.
2. Connect one lead of a self-powered test lamp or an ohmmeter to the fuse terminal on the load side.
3. Connect the other lead to a ground.
4. Beginning near the fuse block move the harness from side to side. Continue this procedure (about six inches apart) while watching the self-powered test lamp or ohmmeter.
5. When the self-powered test lamp glows, or ohmmeter registers, there is a short to a ground in the wiring near that point.



YGI-013C

TESTING FOR A SHORT WITH A SHORT FINDER

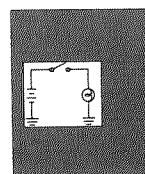
1. Remove the blown fuse. Leave the battery connected.
2. Connect the short finder across the fuse terminals.
3. Close all switches in series in the circuit that is being testing.
4. Turn on the short circuit locator. It sends pulses of current to the short. This creates a pulsing magnetic field around the wiring between the fuse box and the short.
5. Beginning at the fuse box, slowly move the short finder along the circuit wiring. The meter will show current pulses through sheet metal and body trim. As long as the meter is between the fuse and the short, the needle will move with each current pulse. Once the meter is moved past the point of the short, the needle will stop moving. Check around this area to locate the cause of the short circuit.



YGI-014A

SCHEMATIC DIAGRAMS

A/C CONTROL SYSTEM	SD-142
AIR BAG SYSTEM	SD-140
ANTI-LOCK BRAKE SYSTEM	SD-60
AUDIO SYSTEM	SD-100
AUTO IDLE UP CONTROL SYSTEM	SD-52
BACK-UP LAMPS	SD-126
BLOWER CONTROL SYSTEM	SD-146
CHARGING SYSTEM	SD-38
CIGARETTE LIGHTER (POWER OUTLET)	SD-66
COURTESY LAMPS	SD-130
DATA LINK DETAILS	SD-32
DAYTIME RUNNING LIGHTS	SD-106
ENGINE CONTROL SYSTEM (COVEC-F)	SD-40
ENGINE CONTROL SYSTEM (EGR)	SD-48
ETACS (ELECTRONIC TIME & ALARM CONTROL SYSTEM)	SD-68
FRONT FOG LAMPS	SD-118
FRONT WIPER & WASHER	SD-72
FUEL HEATER CONTROL SYSTEM	SD-56
FUSE AND RELAY INFORMATION	SD-2
GAUGES	SD-82
GROUND DISTRIBUTION	SD-20
HEAD LAMP LEVELING DEVICE	SD-112
HEAD LAMPS	SD-104
HEAD LAMP WASHER	SD-110
HORNS	SD-102
ILLUMINATIONS	SD-134
IMMOBILIZER CONTROL SYSTEM	SD-64
INDICATORS	SD-76
MULTIMETER	SD-84
OVER DRIVE OFF SWITCH	SD-58
PASSENGER COMPARTMENT FUSE DETAILS	SD-12
POWER DISTRIBUTION	SD-6
POWER DOOR LOCKS	SD-86
POWER OUTSIDE MIRRORS	SD-90
POWER WINDOWS	SD-96
REAR FOG LAMPS	SD-120
REAR WINDOW & OUTSIDE MIRROR DEFOGGER SYSTEM	SD-92
REAR WIPER & WASHER	SD-74
SEAT WARMER	SD-94
STARTING SYSTEM	SD-36
STOP LAMPS	SD-128
TAIL, PARKING & LICENSE LAMPS	SD-122
TURN & HAZARD LAMPS	SD-114
VEHICLE SPEED SENSOR	SD-34

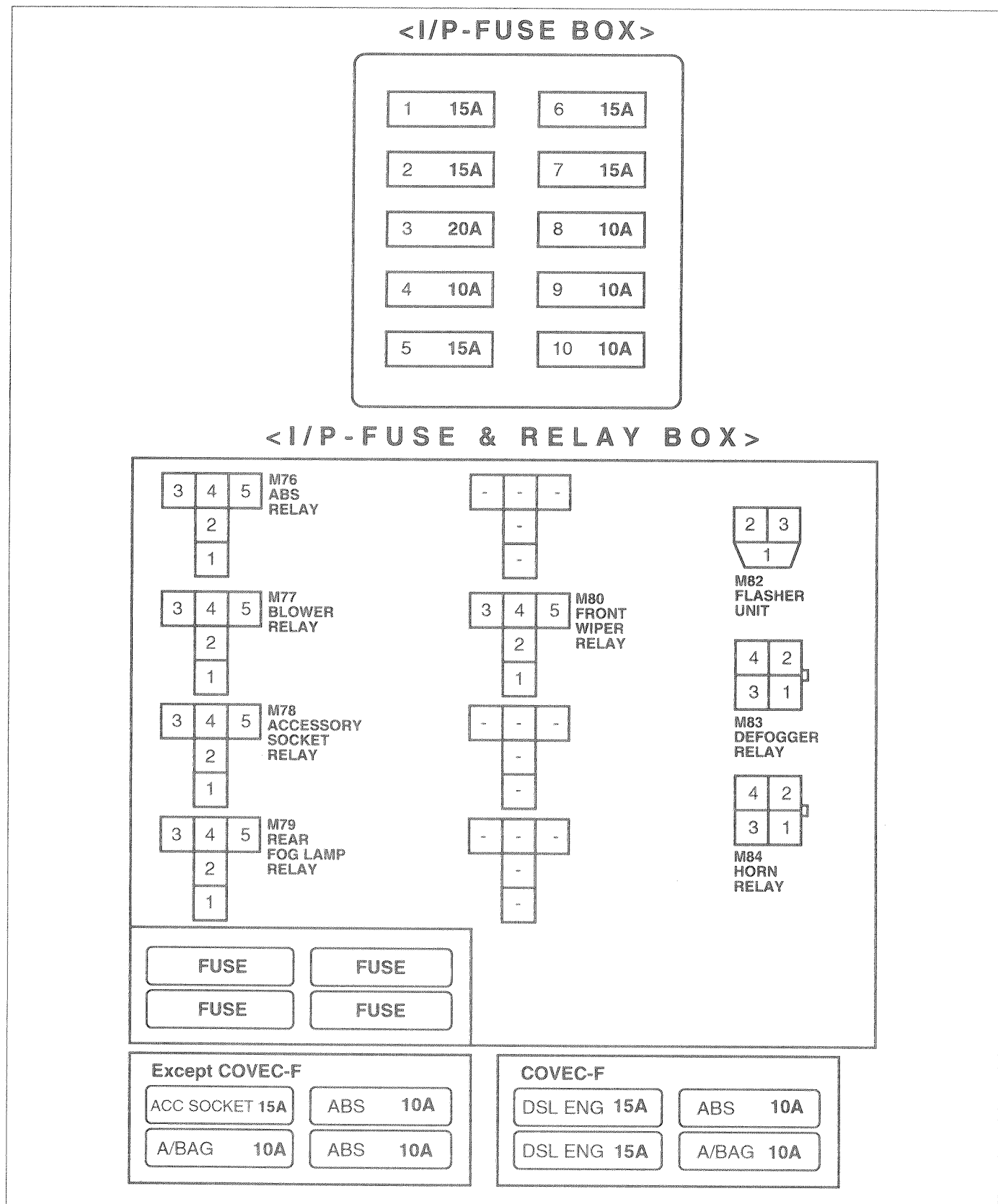


FUSE AND RELAY INFORMATION

E2XC0010

PASSENGER COMPARTMENT FUSE BOX

LAYOUT



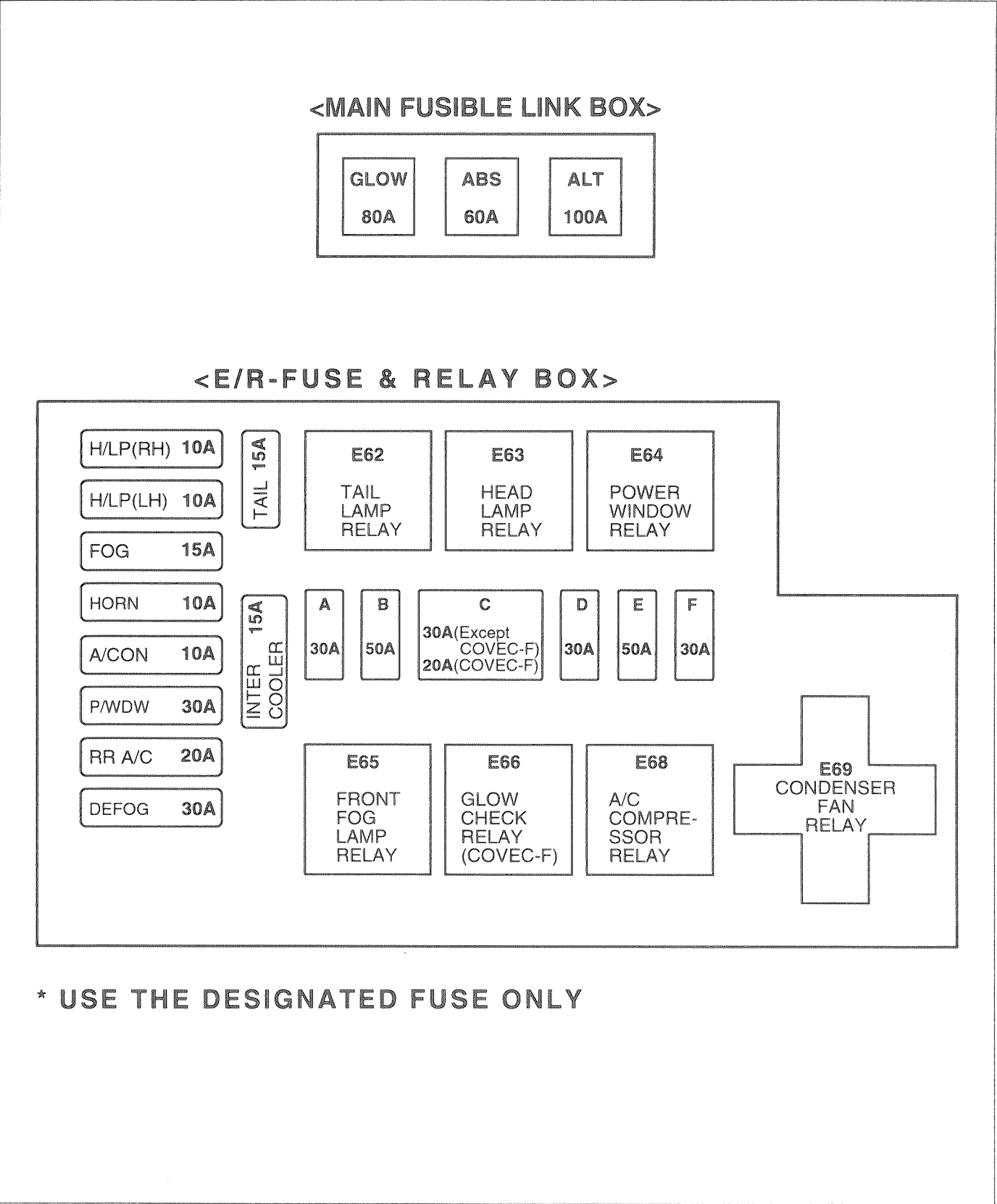
CIRCUIT

NO	Amperage(A)	Circuit protected
1	15A	ETACM, Room lamp, Audio, Instrument cluster
2	15A	Door lock control module, Power window relay
3	20A	Blower relay
4	10A	Stop lamp switch
5	15A	Hazard switch, Multifunction switch
6	15A	Accessory socket relay, Multimeter, Audio, Outside mirror switch
7	15A	ETACM, Head lamp leveling device, Seat warmer, Wiper & washer
8	10A	Blower & A/C, Idle up control module
9	10A	Glow check relay, ECM, Vehicle speed sensor, ETACM
10	10A	Hazard switch, Pre-excitation resistor, Over drive off switch
ACC SOCKET	15A	Accessory socket
ABS	10A	ABS control module
ABS	10A	(Not used)
A/BAG	10A	SRS control module
DSL ENG	15A	ECM (COVEC-F)
DSL ENG	15A	ECM (COVEC-F)

*** USE THE DESIGNATED FUSE ONLY**

ENGINE COMPARTMENT FUSE & RELAY BOX

LAYOUT



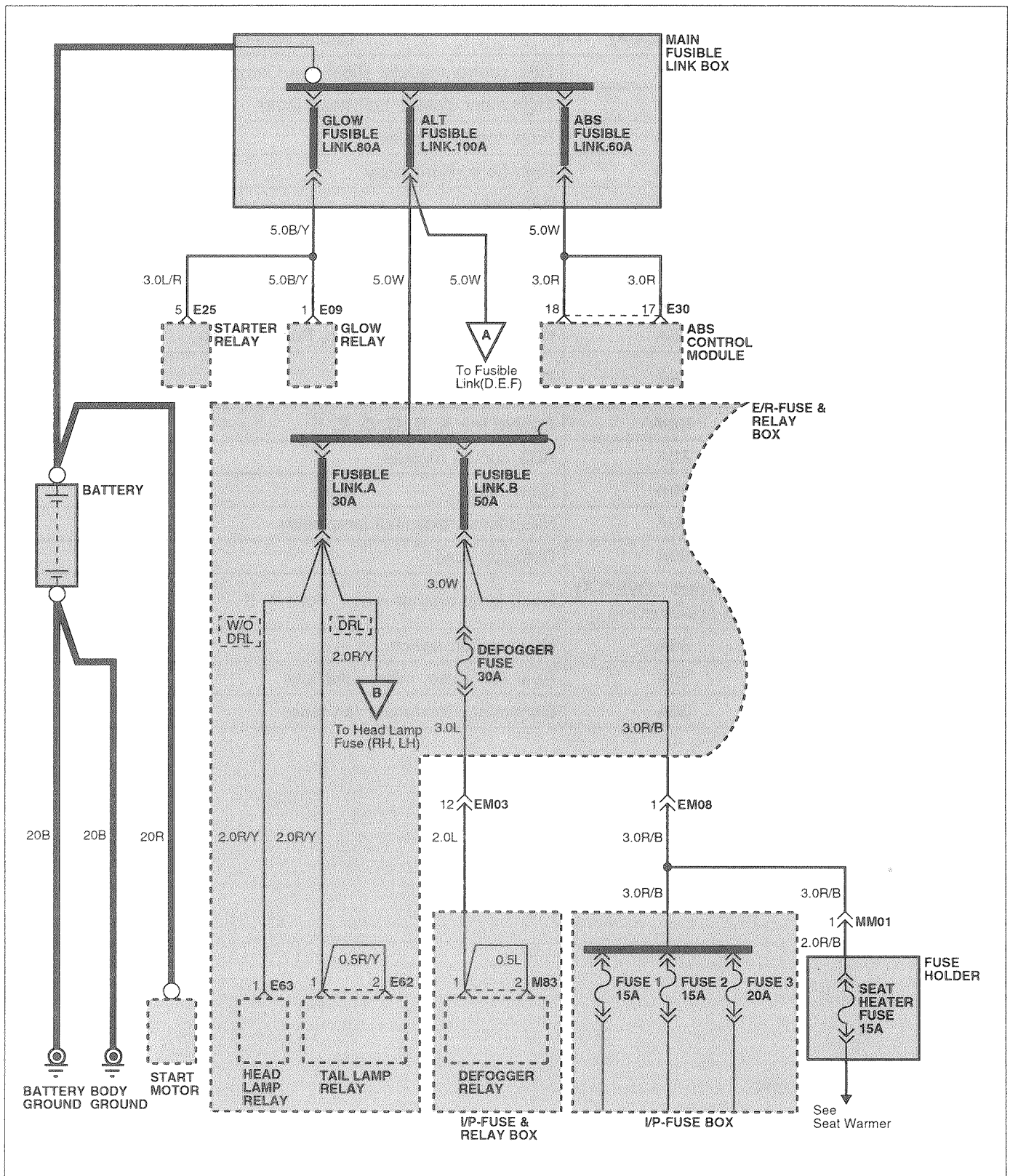
CIRCUIT

	NO	Amperages(A)	Circuit protected
FUSE	H/LP(RH)	10A	DRL control module, Right head lamp
	H/LP(LH)	10A	Instrument cluster, Left head lamp
	FOG	15A	Front fog lamp relay
	HORN	10A	High horn, Horn relay
	A/CON	10A	A/C relay
	P/WDW	30A	Power window relay
	RR A/C	20A	Rear A/C relay #1
	DEFOG	30A	Defogger relay, Fuse 1, 2, 3
	TAIL	15A	Illuminations, License lamp, Position lamp
	INTER COOLER	15A	TCI fan relay
FUSIBLE LINK	ALT	100A	Fusible link A, B, C, D, E, F
	ABS	60A	ABS control module
	GLOW	80A	Glow relay
	A	30A	Head lamp relay, Tail lamp relay
	B	50A	Defogger fuse
	C	30A(Except COVEC-F) 20A(COVEC-F)	Head lamp washer motor, Fuse 4, 5
	D	30A	Multifunction switch
	E	50A	Rear A/C Fuse, Intercooler fuse
	F	30A	Generator, Condenser fan relay

POWER DISTRIBUTION

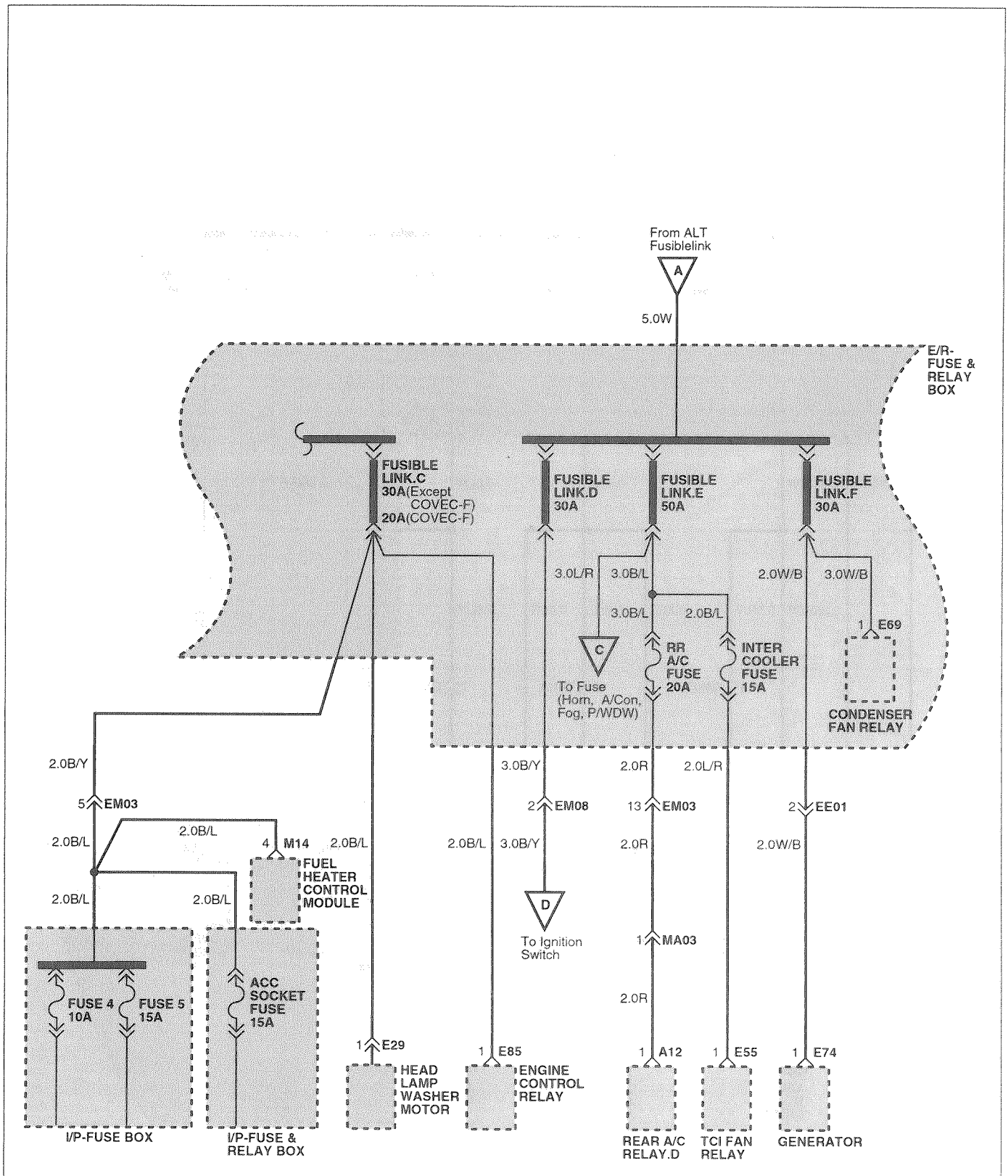
E2XC0020

POWER DISTRIBUTION (1)

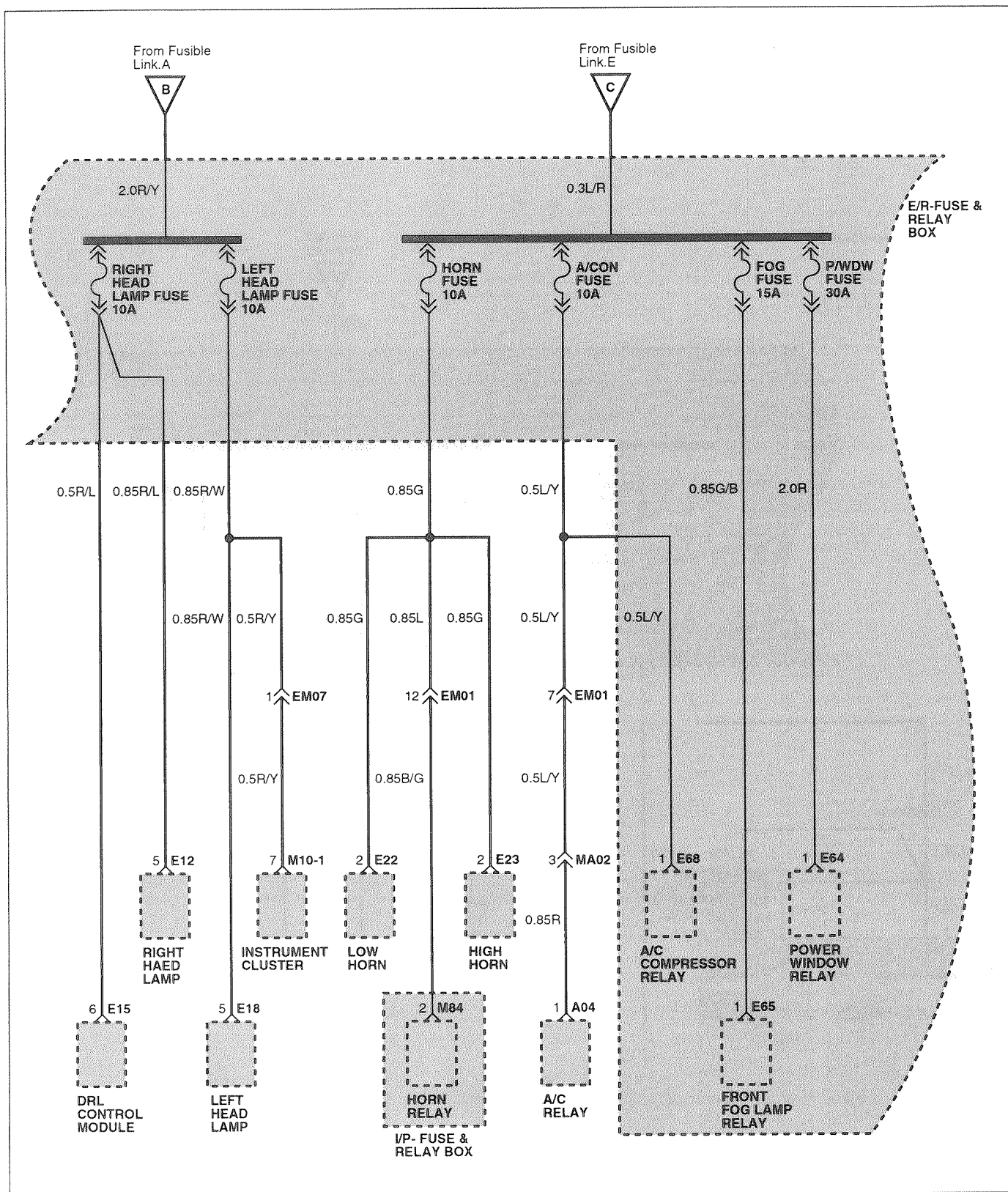


E2XC002A

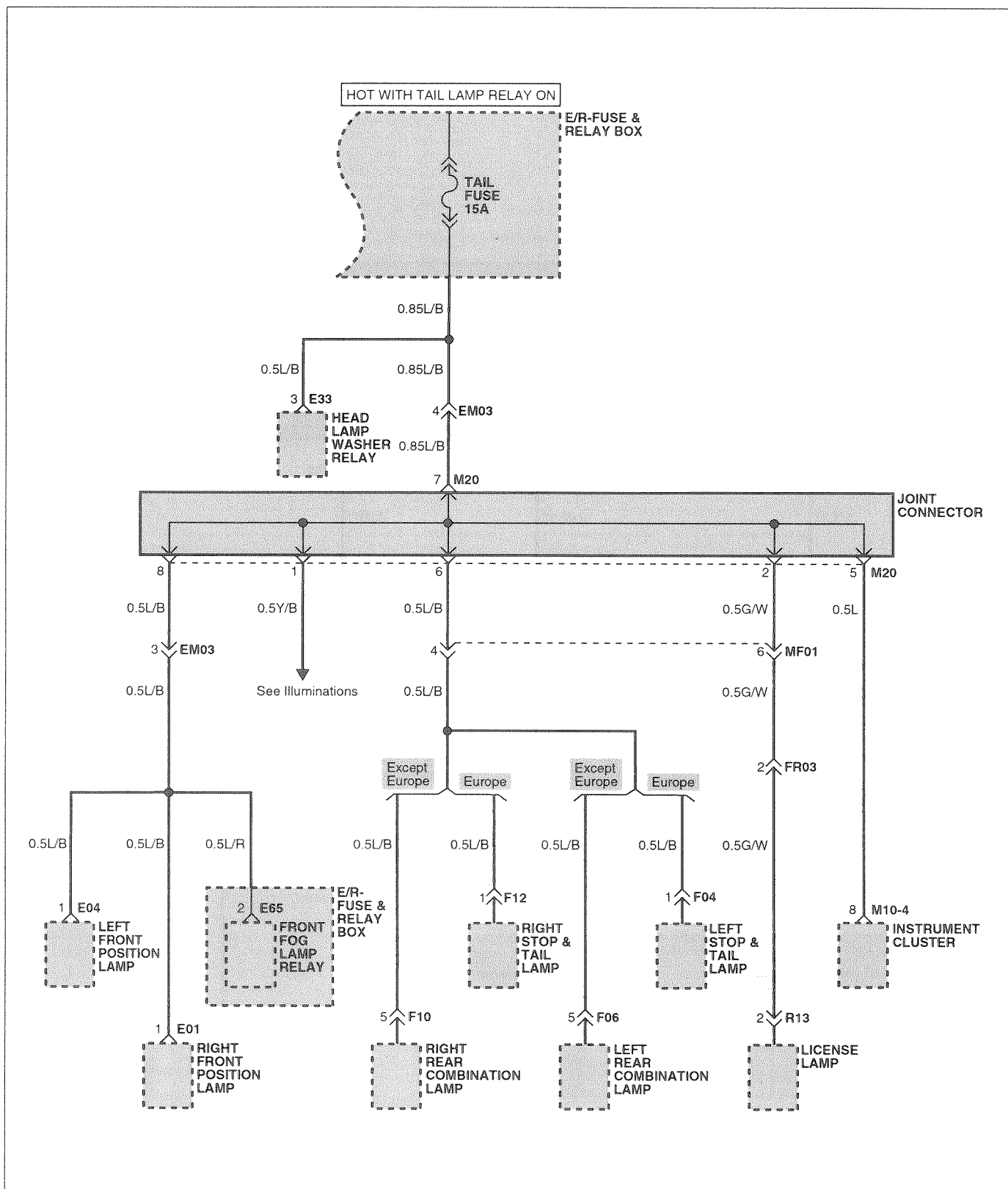
POWER DISTRIBUTION (2)



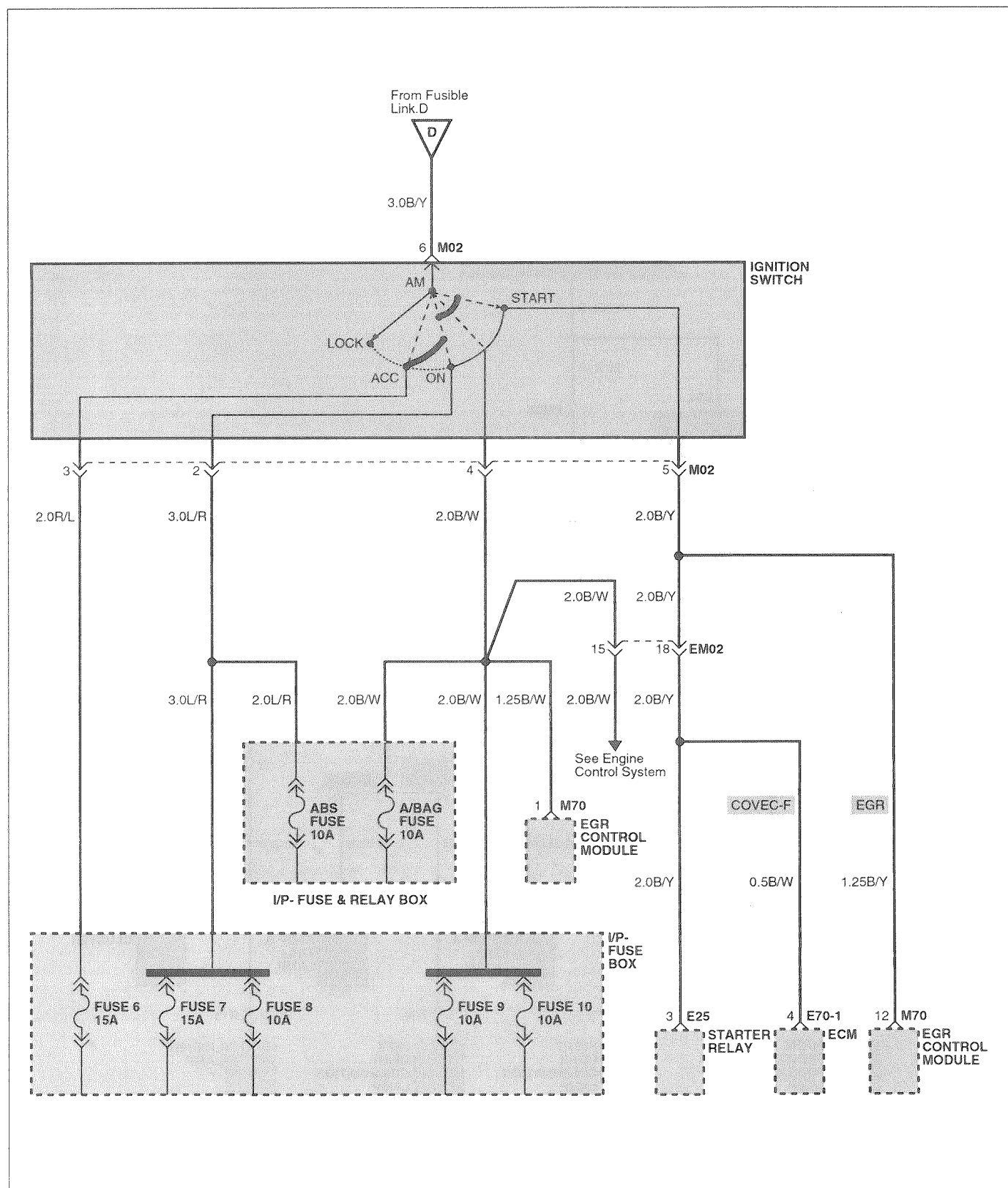
POWER DISTRIBUTION (3)



POWER DISTRIBUTION (4)



POWER DISTRIBUTION (5)

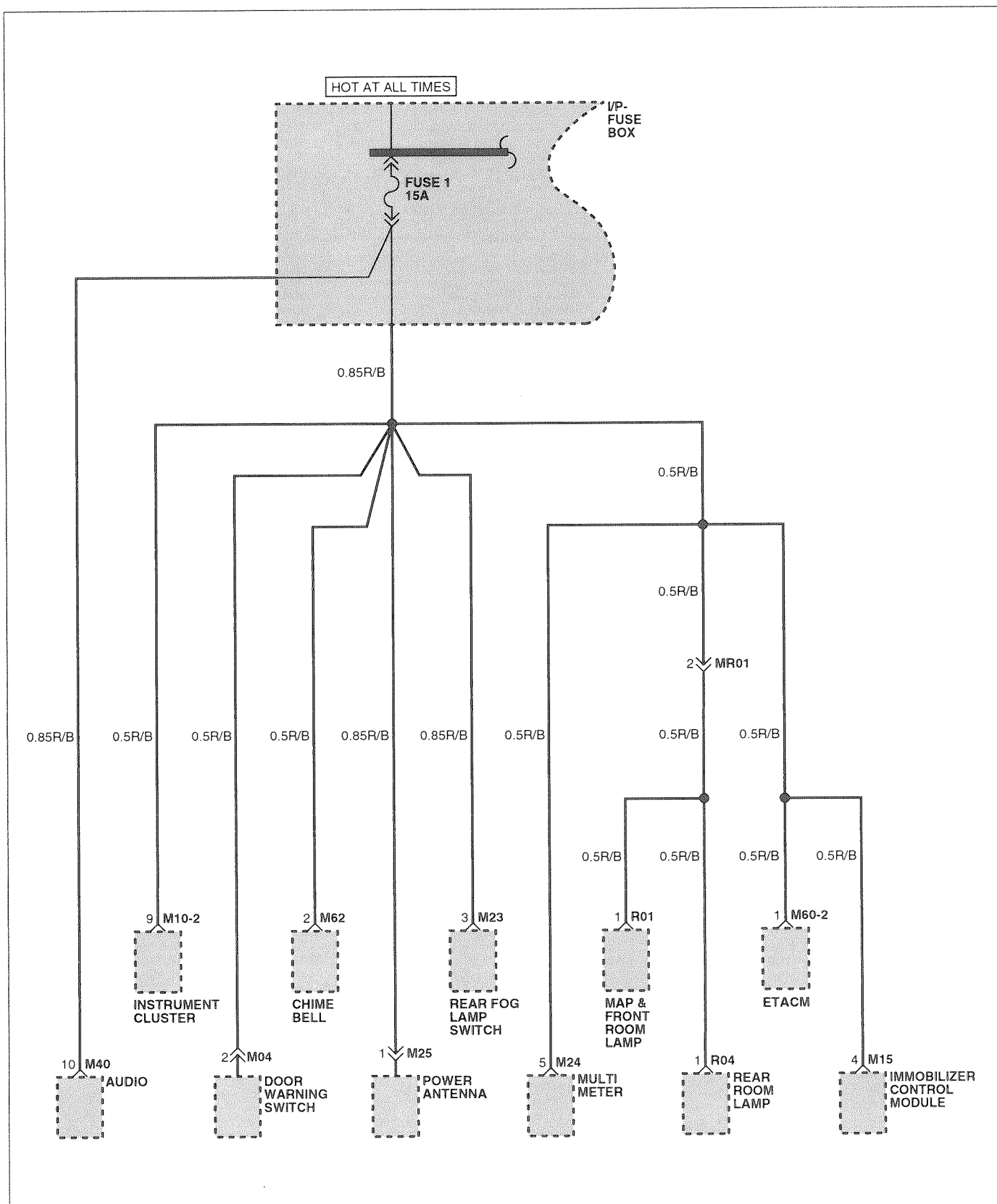


MEMO

PASSENGER COMPARTMENT FUSE DETAILS

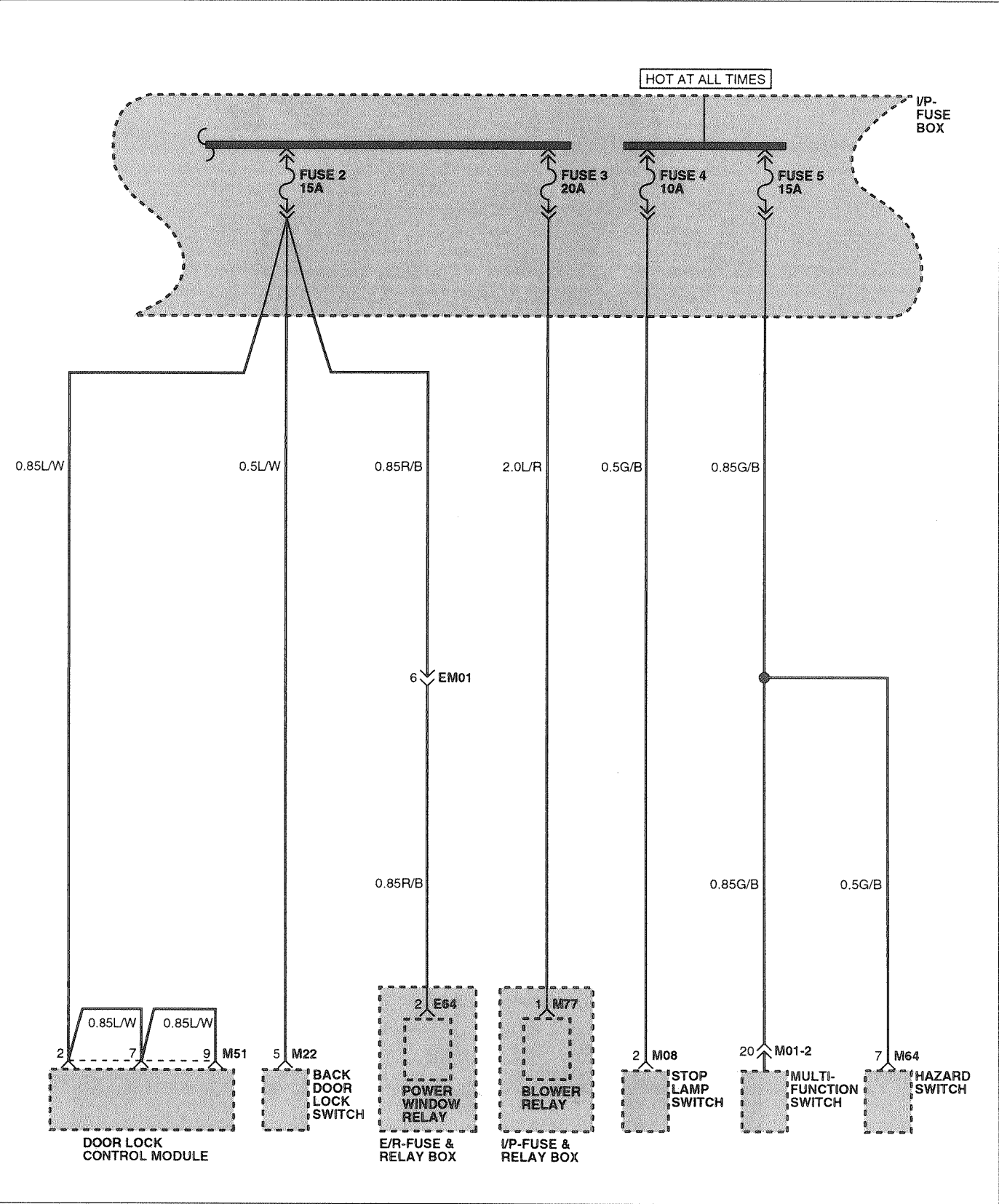
E2XC0030

PASSENGER COMPARTMENT FUSE DETAILS (1)

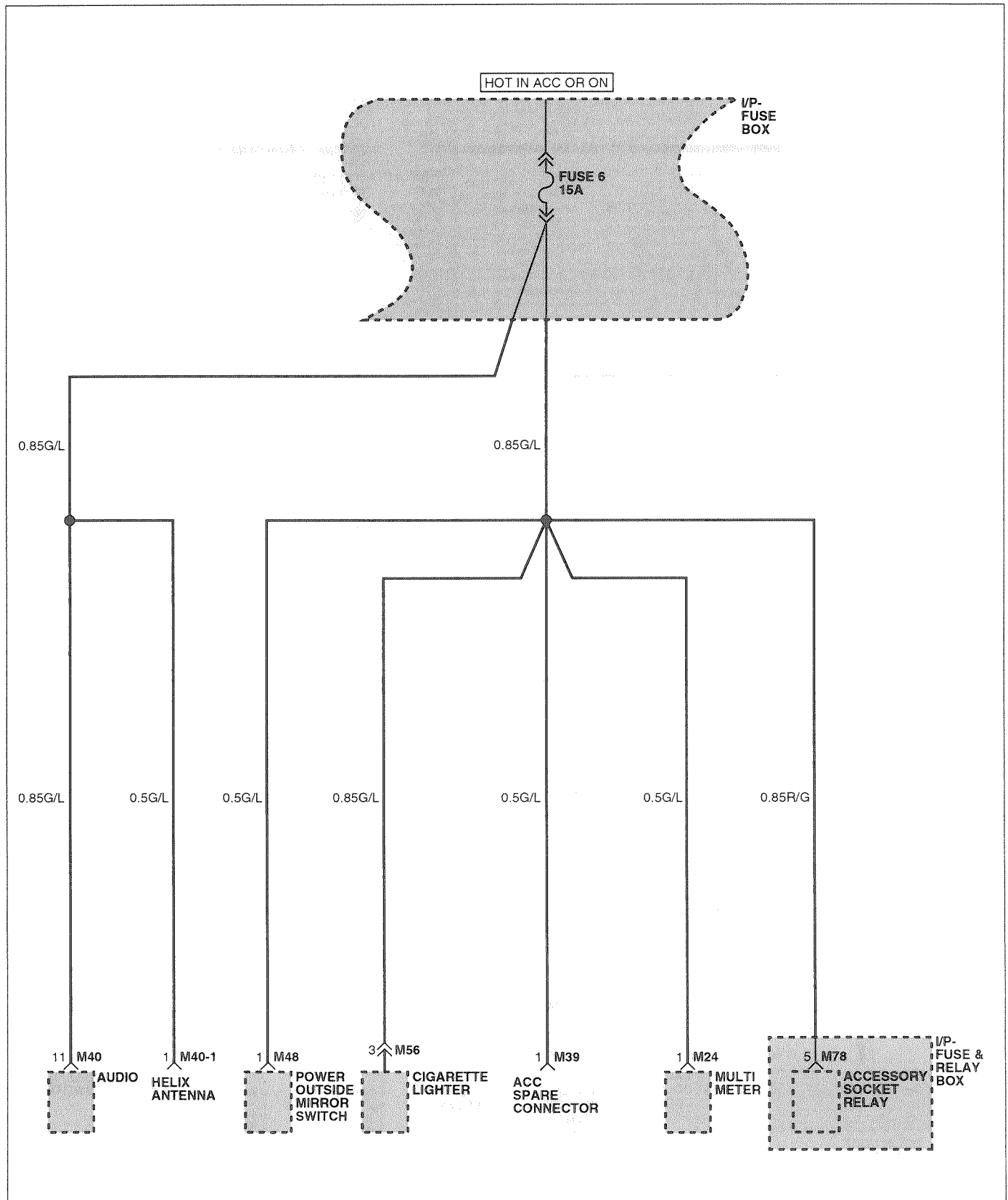


E2XC003A

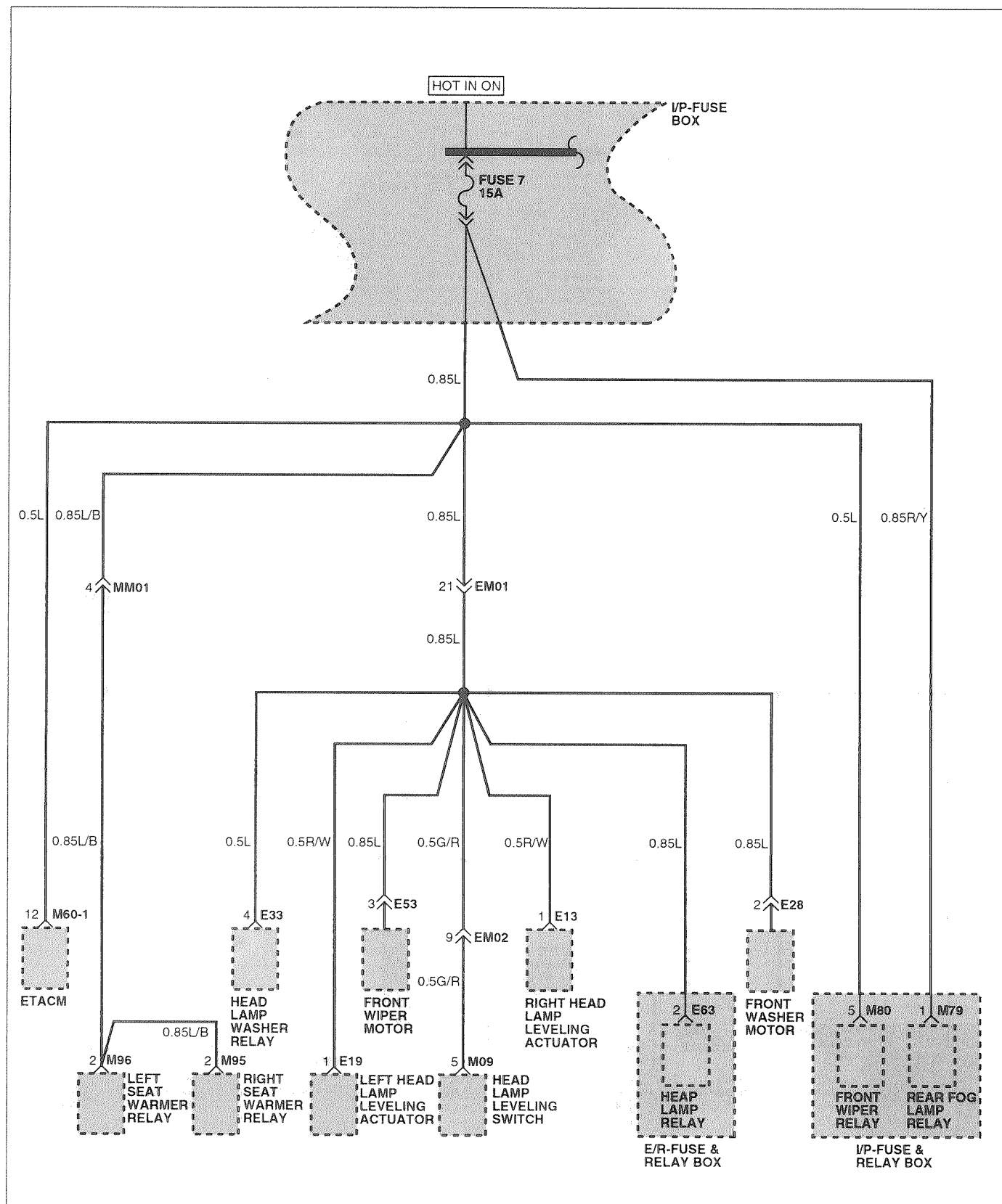
PASSENGER COMPARTMENT FUSE DETAILS (2)



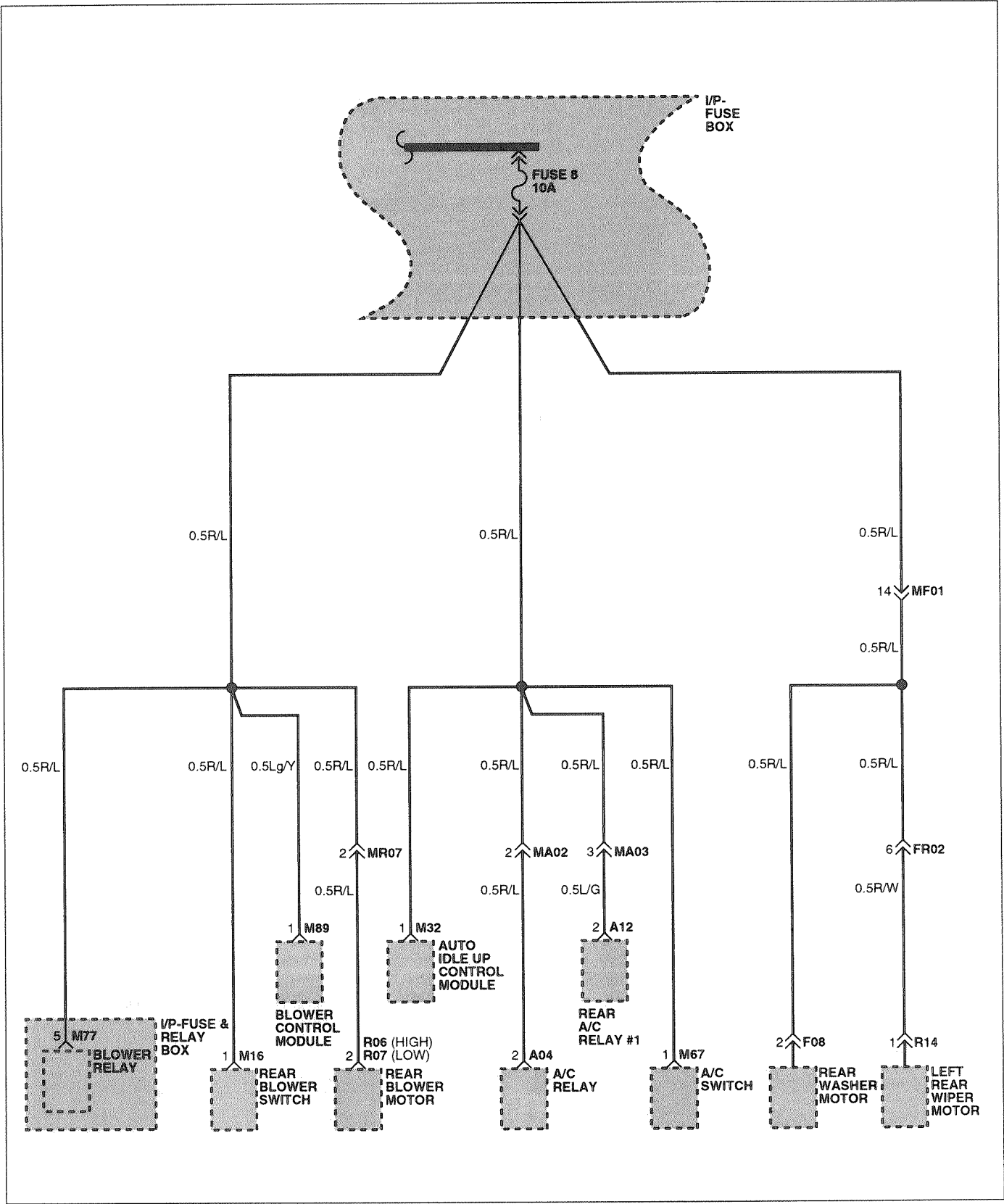
PASSENGER COMPARTMENT FUSE DETAILS (3)



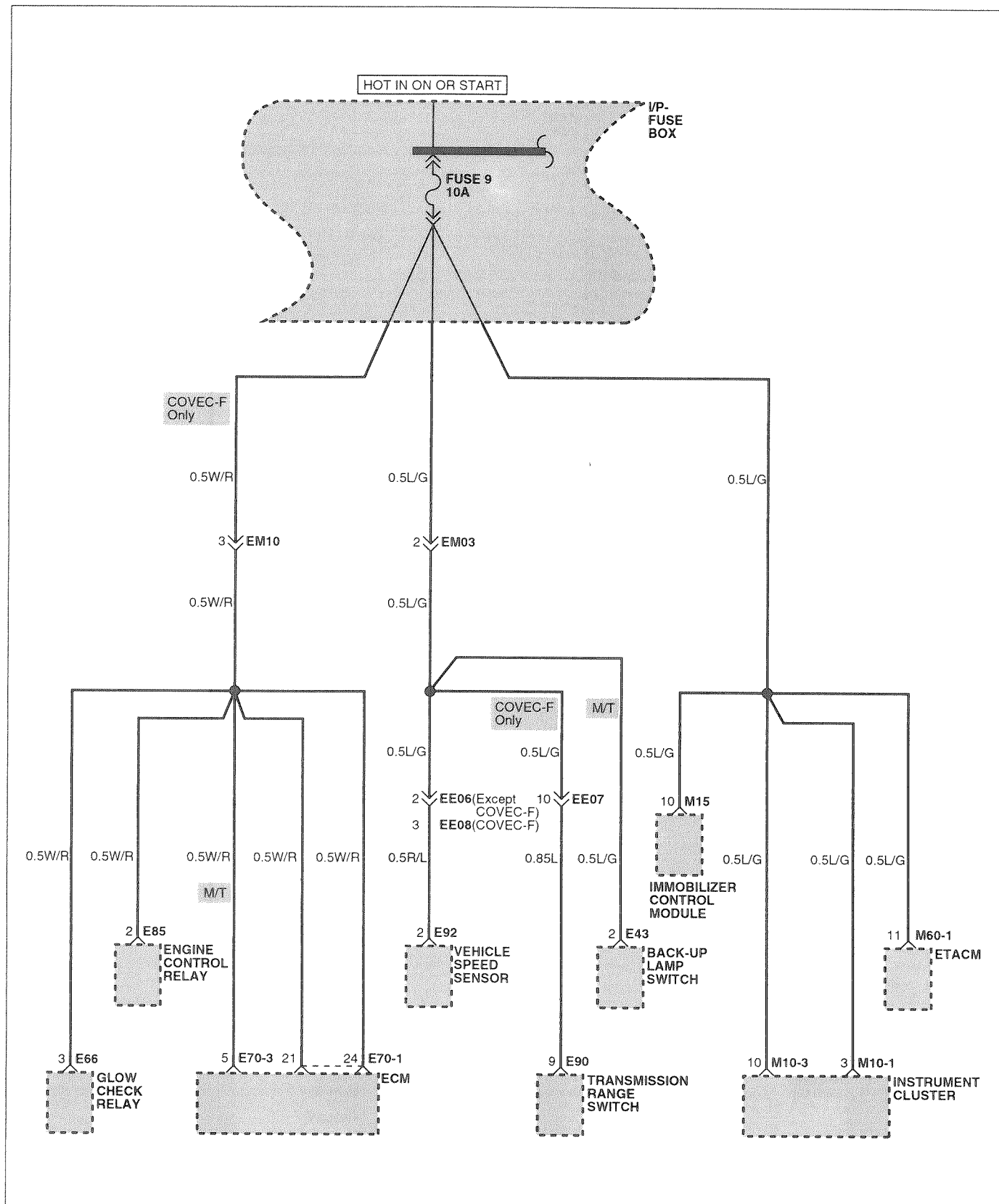
PASSENGER COMPARTMENT FUSE DETAILS (4)



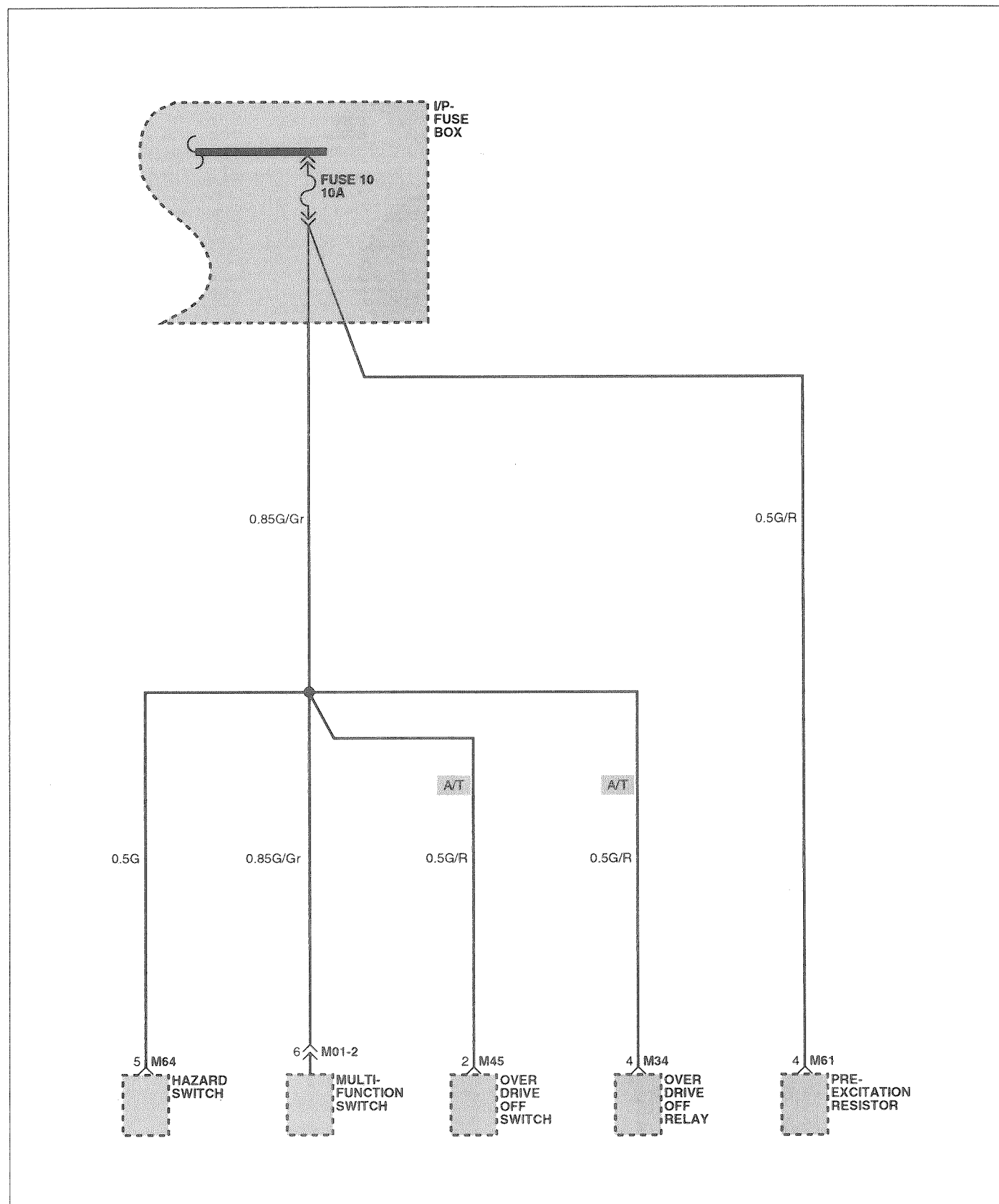
PASSENGER COMPARTMENT FUSE DETAILS (5)



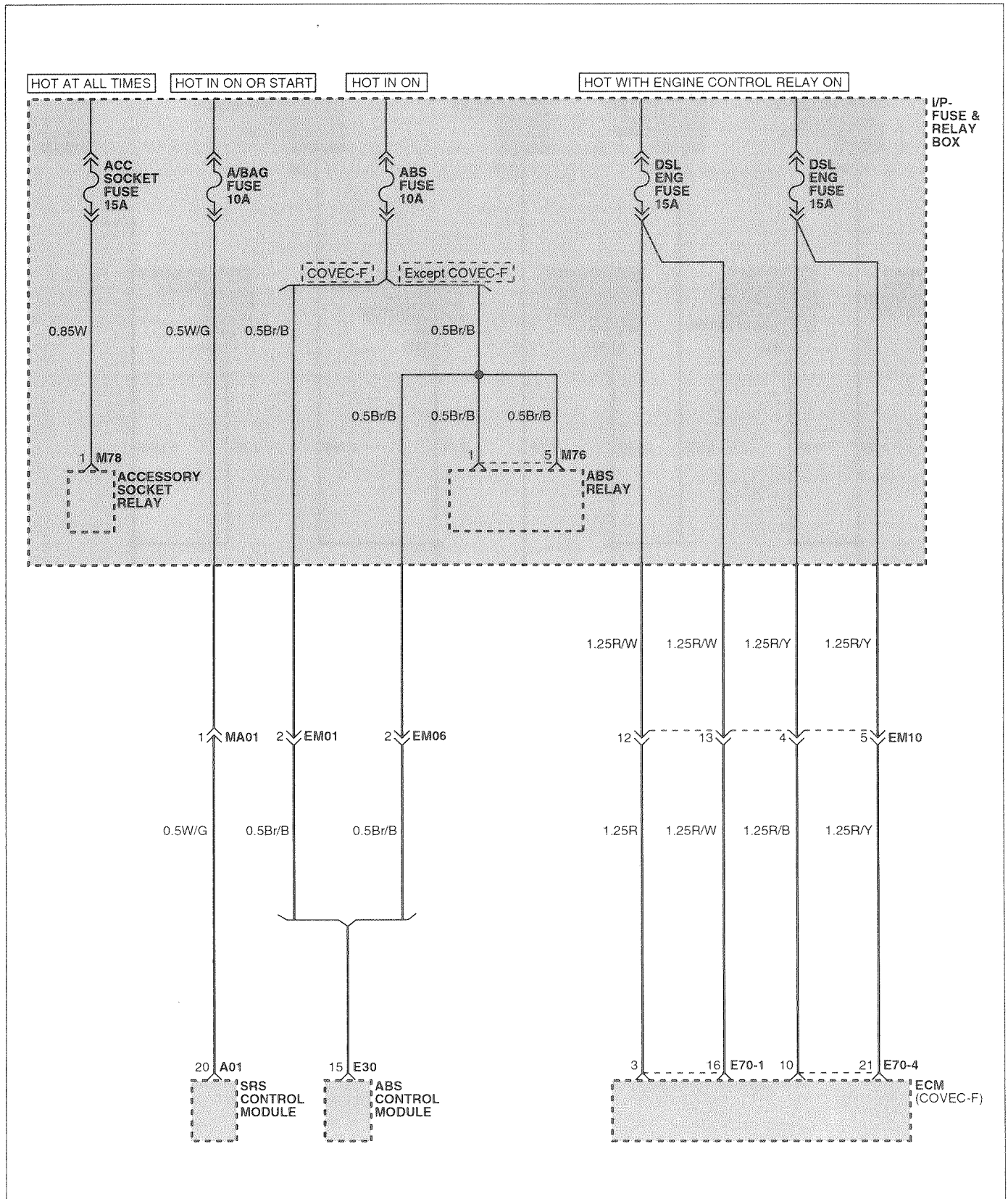
PASSENGER COMPARTMENT FUSE DETAILS (6)



PASSENGER COMPARTMENT FUSE DETAILS (7)



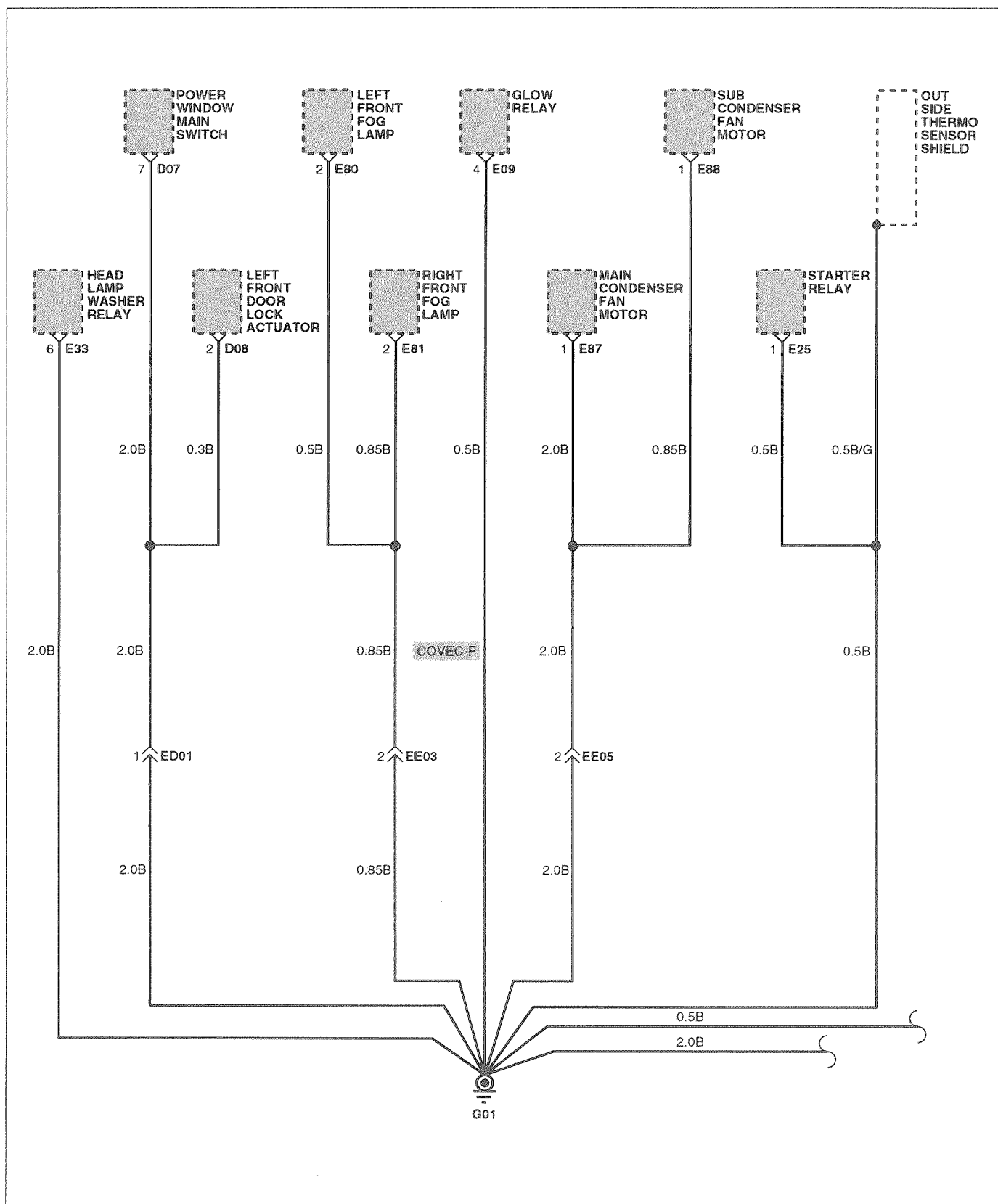
PASSENGER COMPARTMENT FUSE DETAILS (8)



GROUND DISTRIBUTION

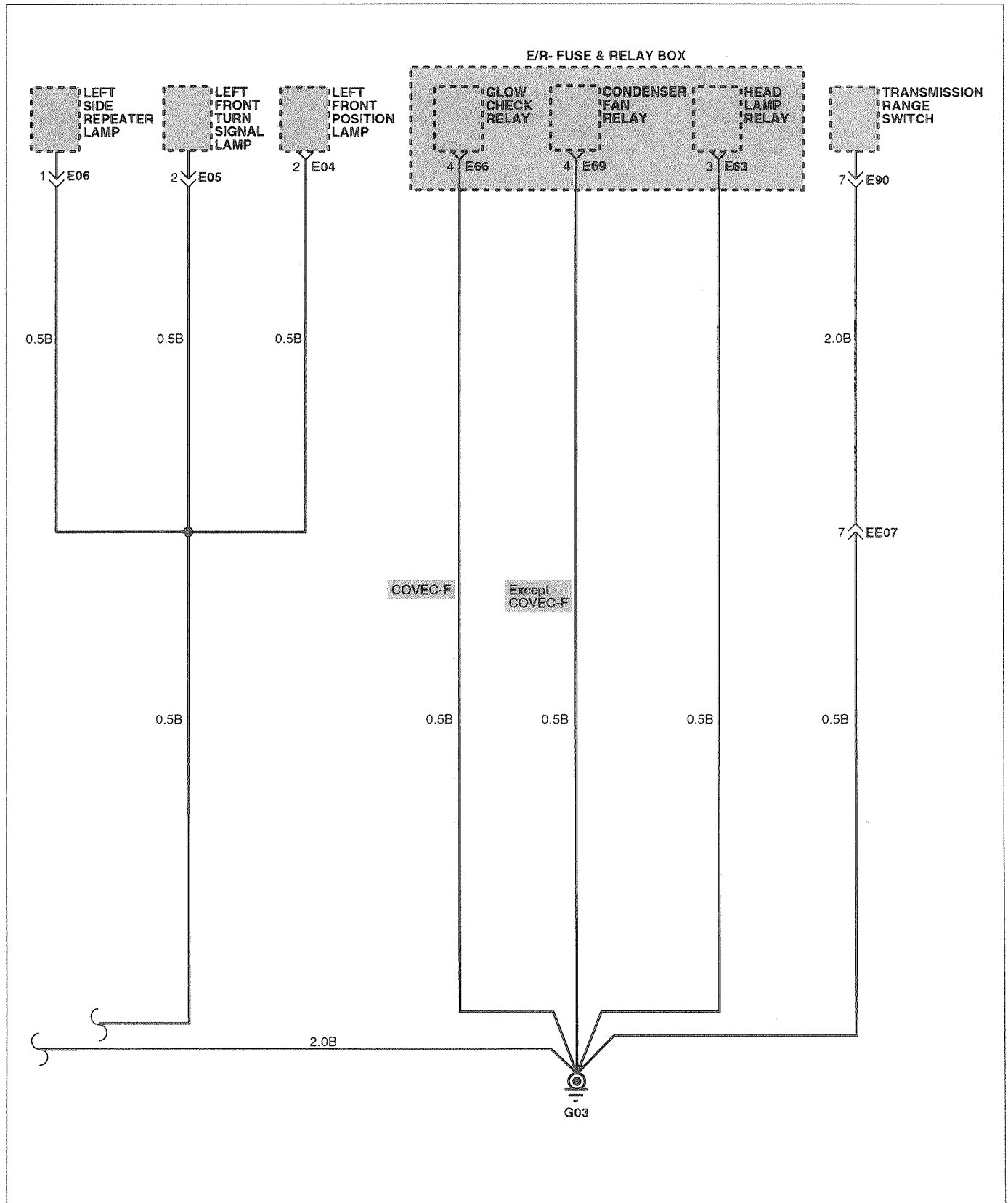
E2XC0040

GROUND DISTRIBUTION (1)

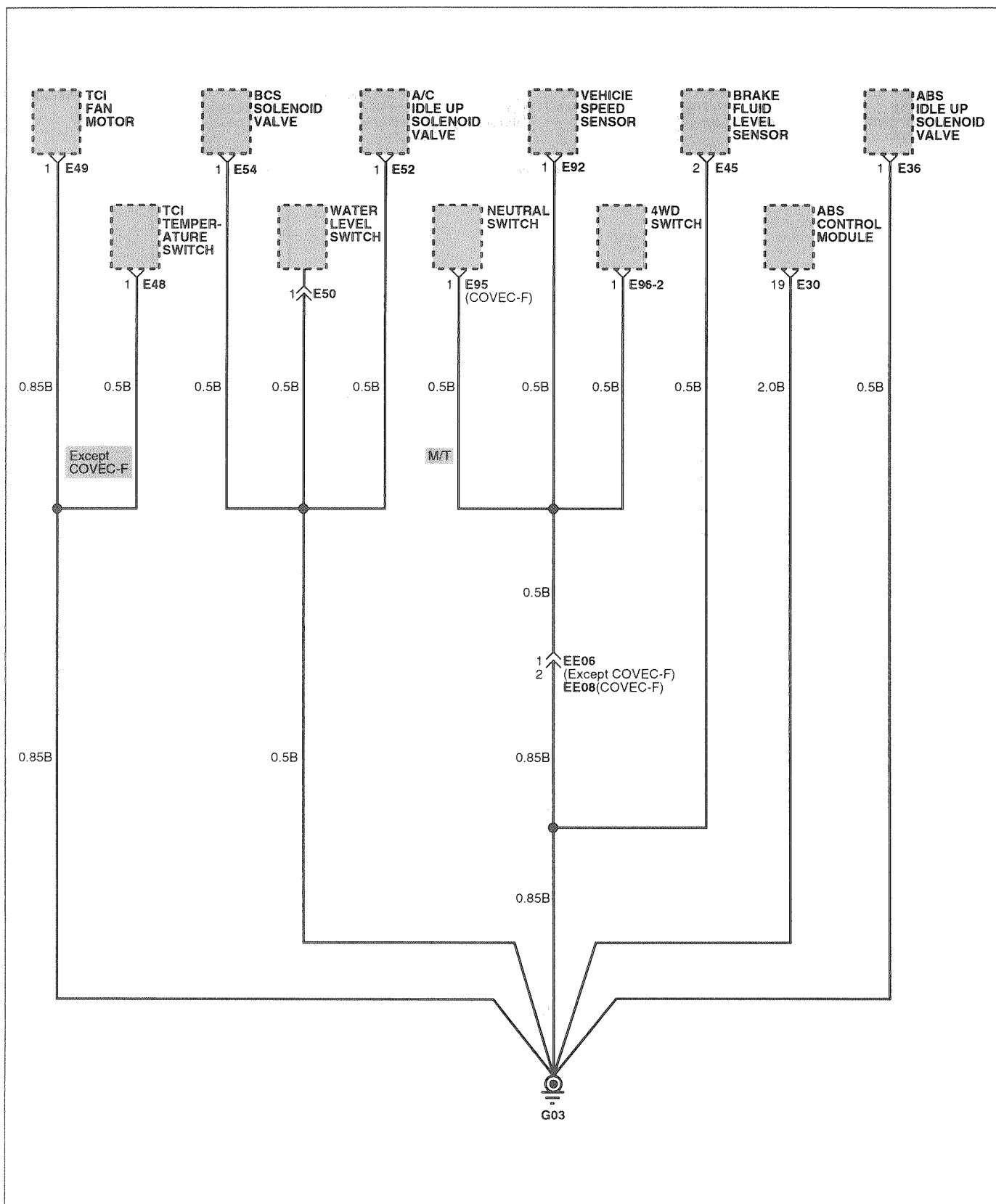


E2XC004A

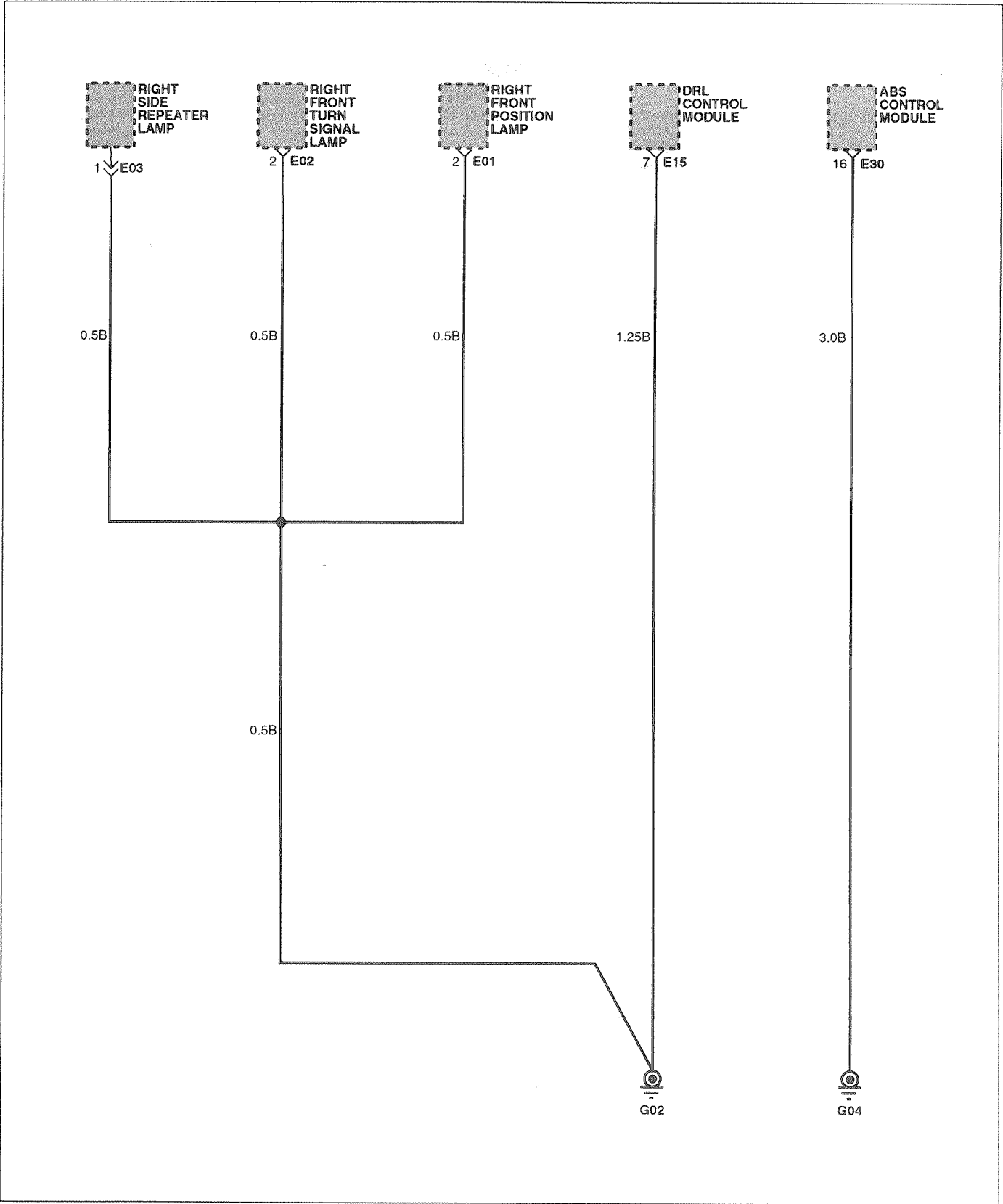
GROUND DISTRIBUTION (2)



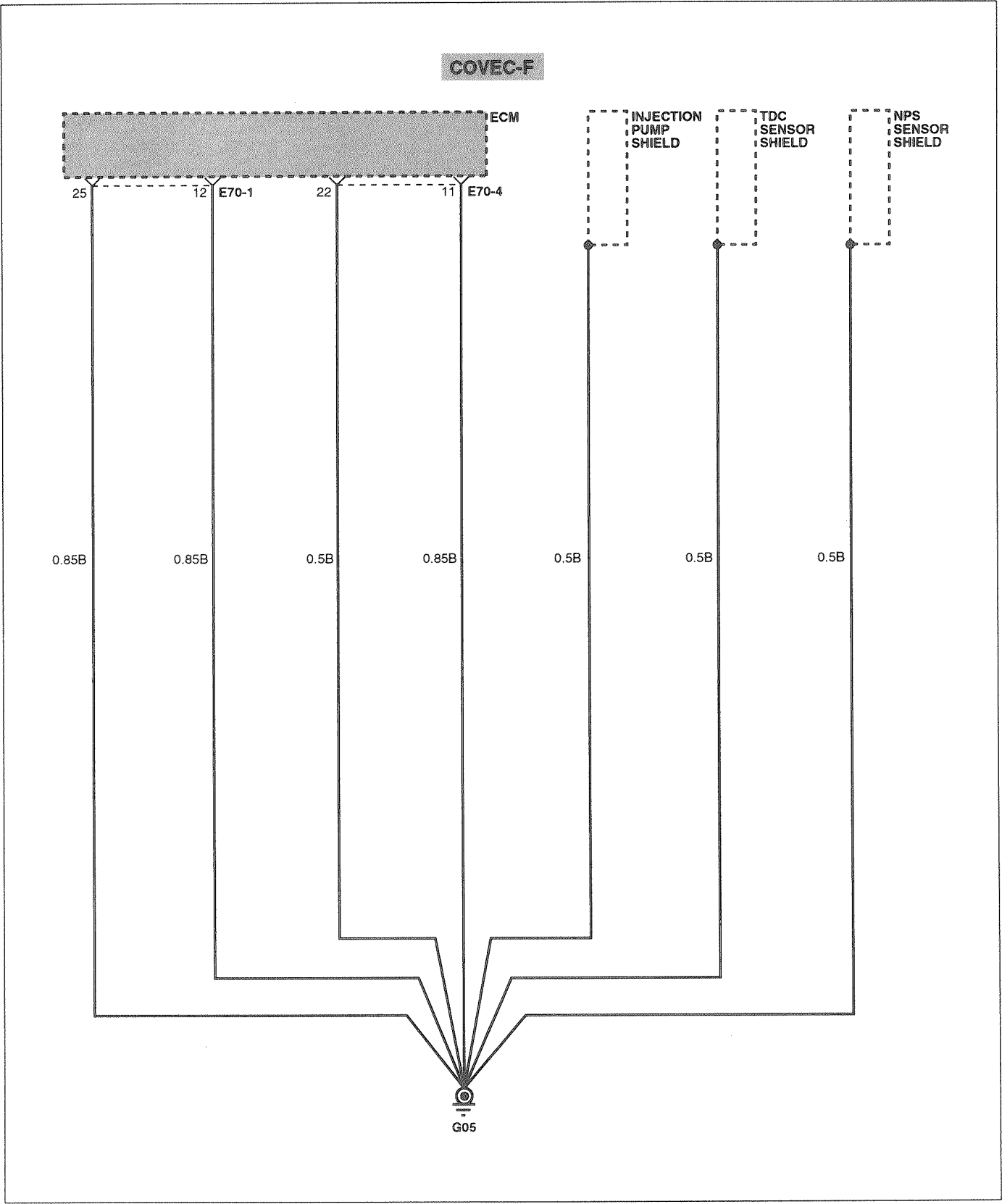
GROUND DISTRIBUTION (3)



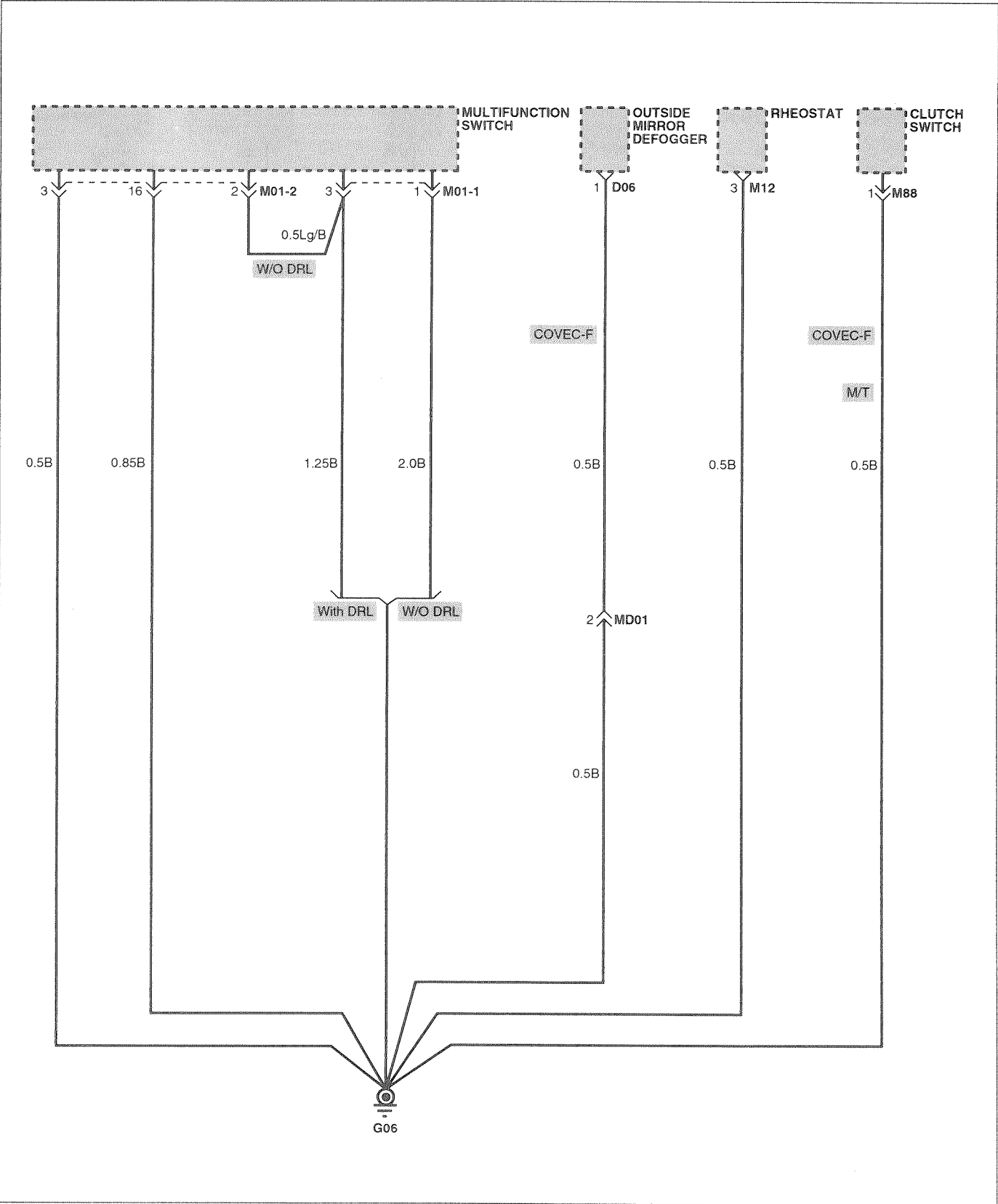
GROUND DISTRIBUTION (4)



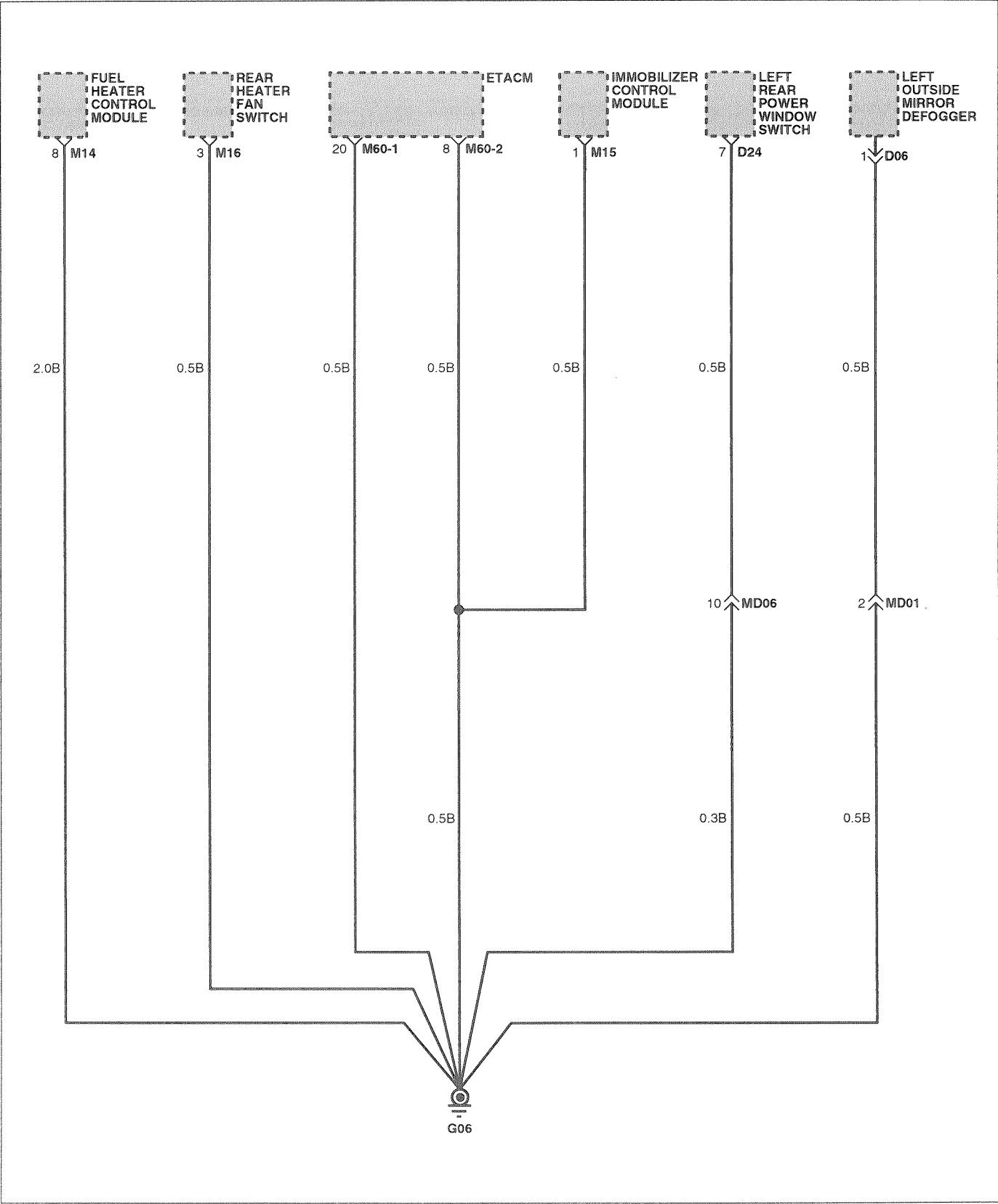
GROUND DISTRIBUTION (5)



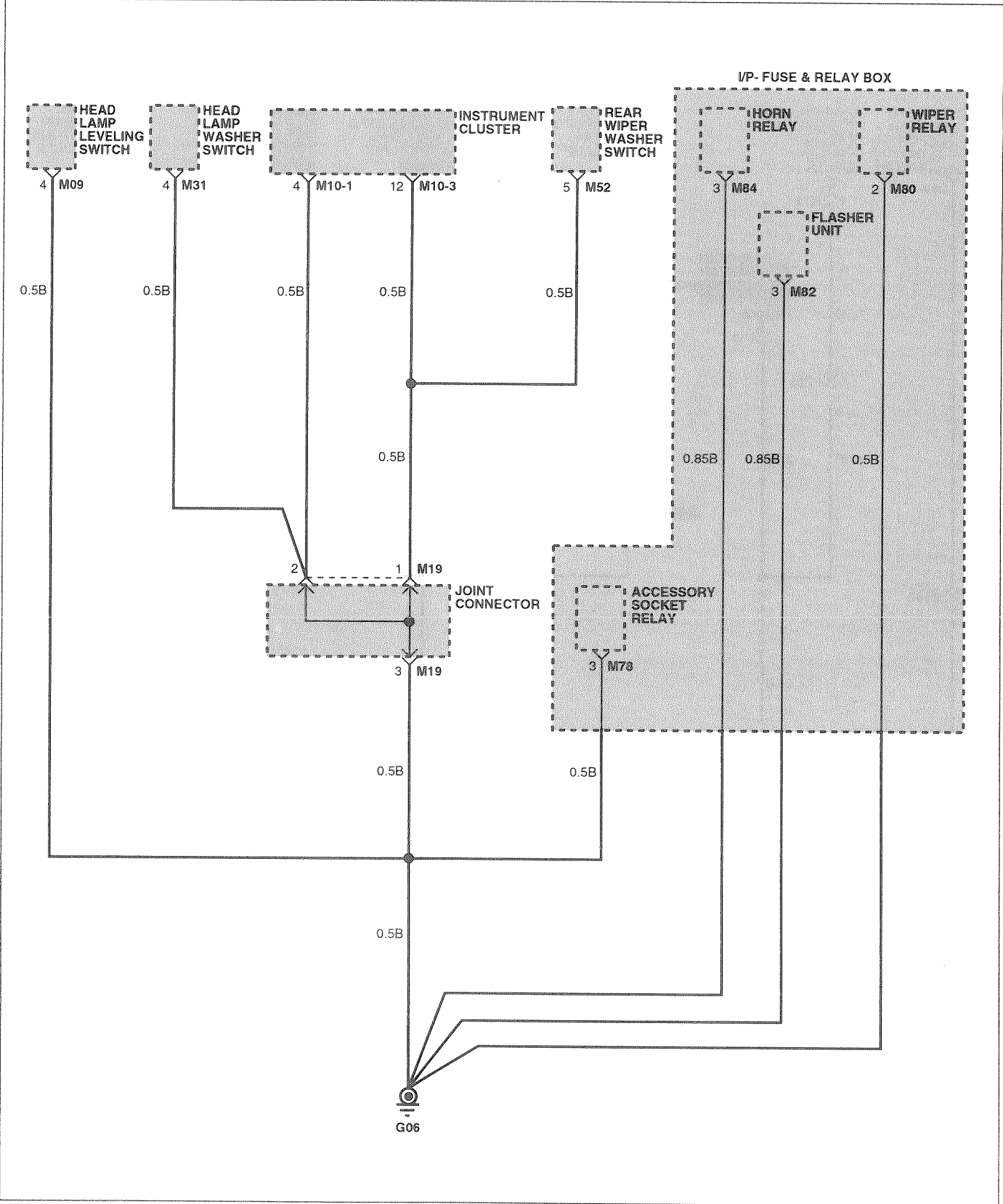
GROUND DISTRIBUTION (6)



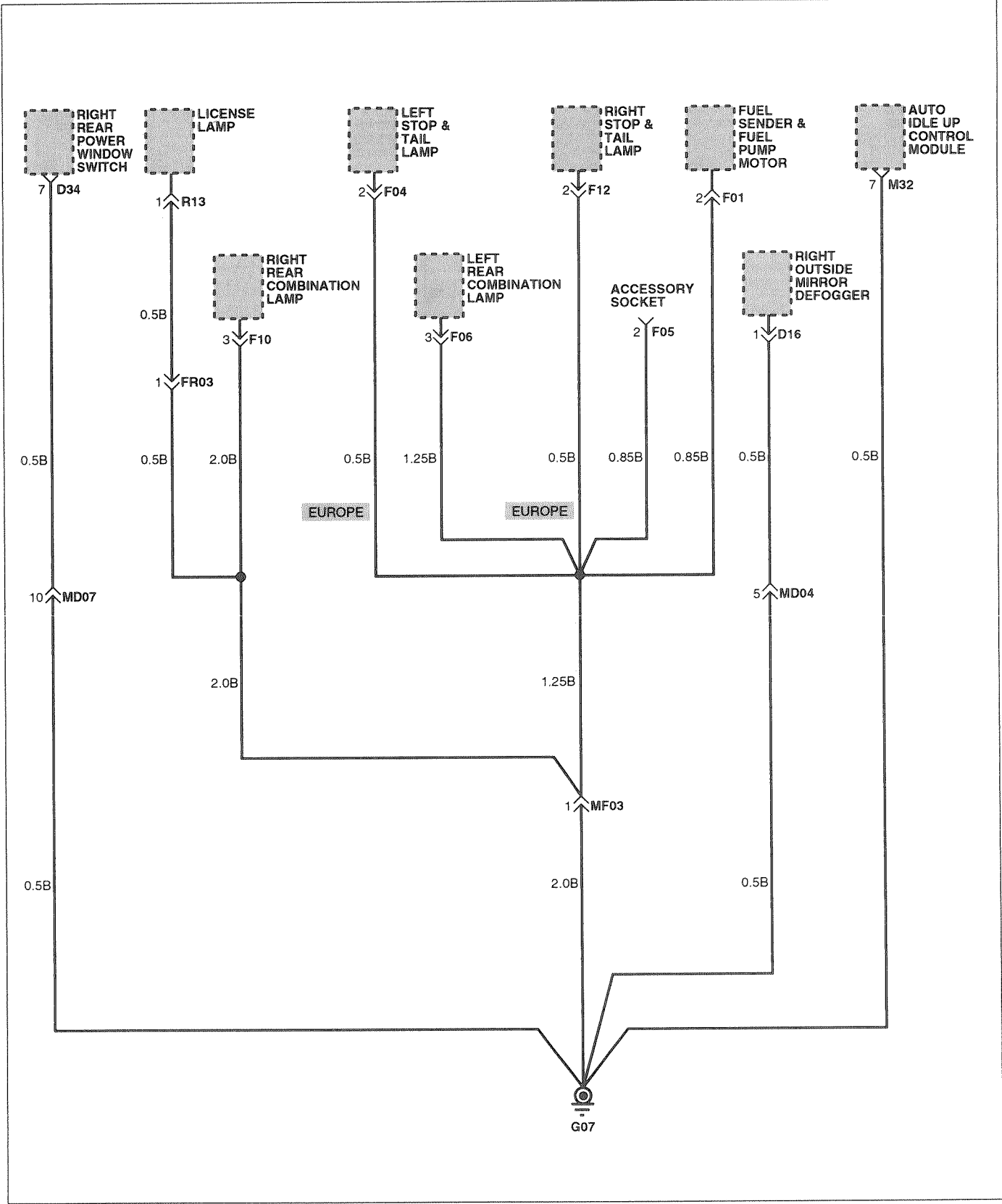
GROUND DISTRIBUTION (7)



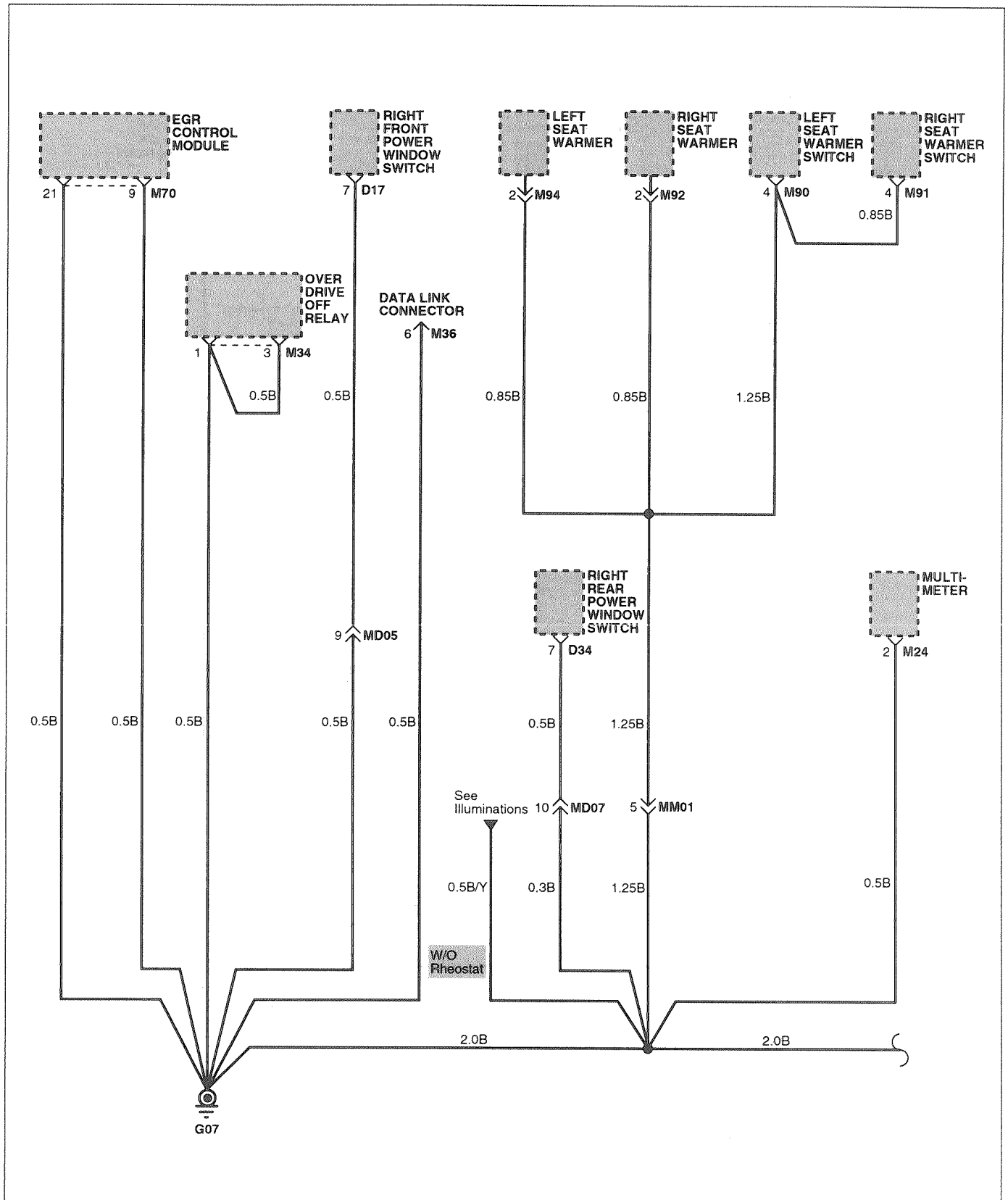
GROUND DISTRIBUTION (8)



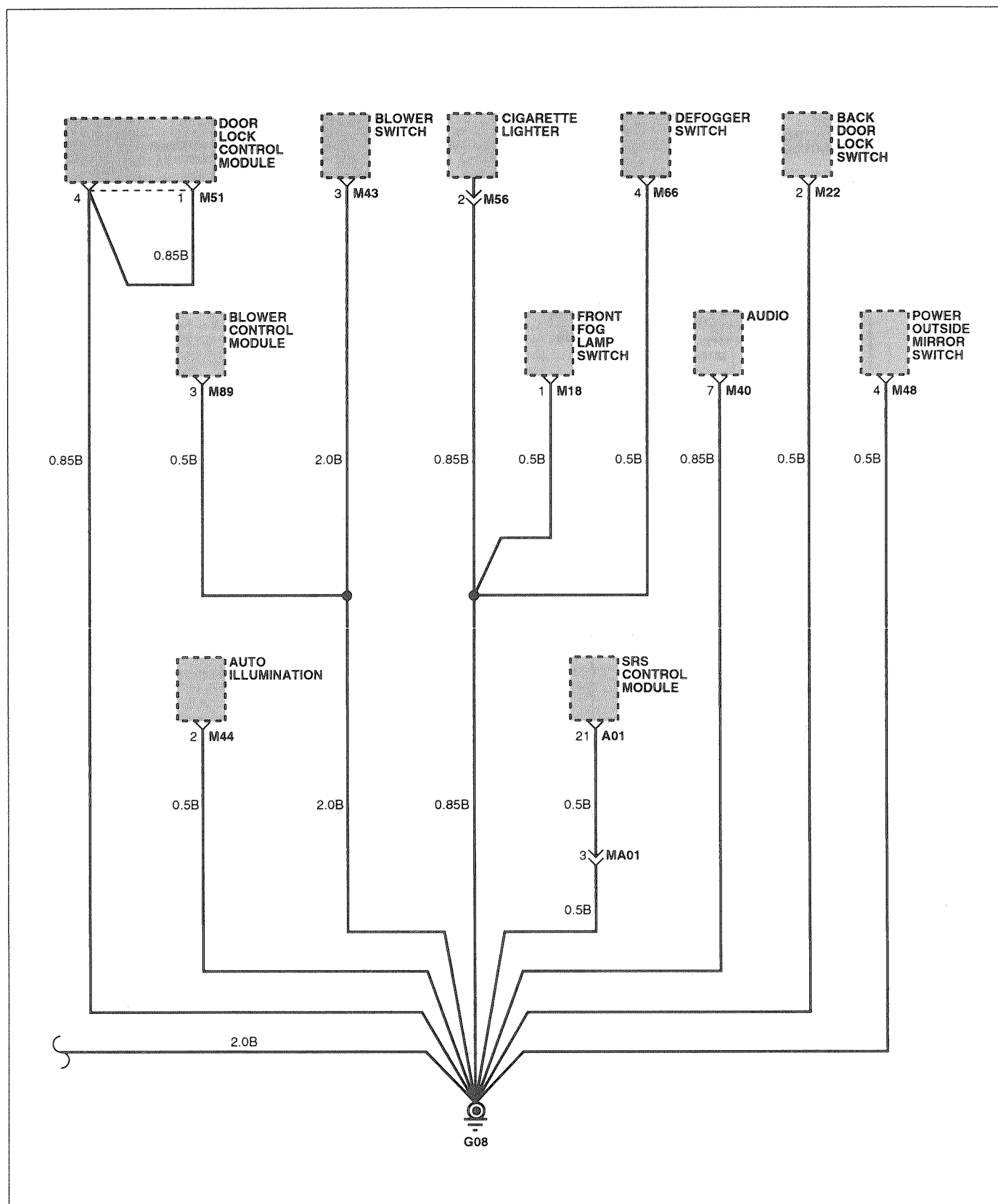
GROUND DISTRIBUTION (9)



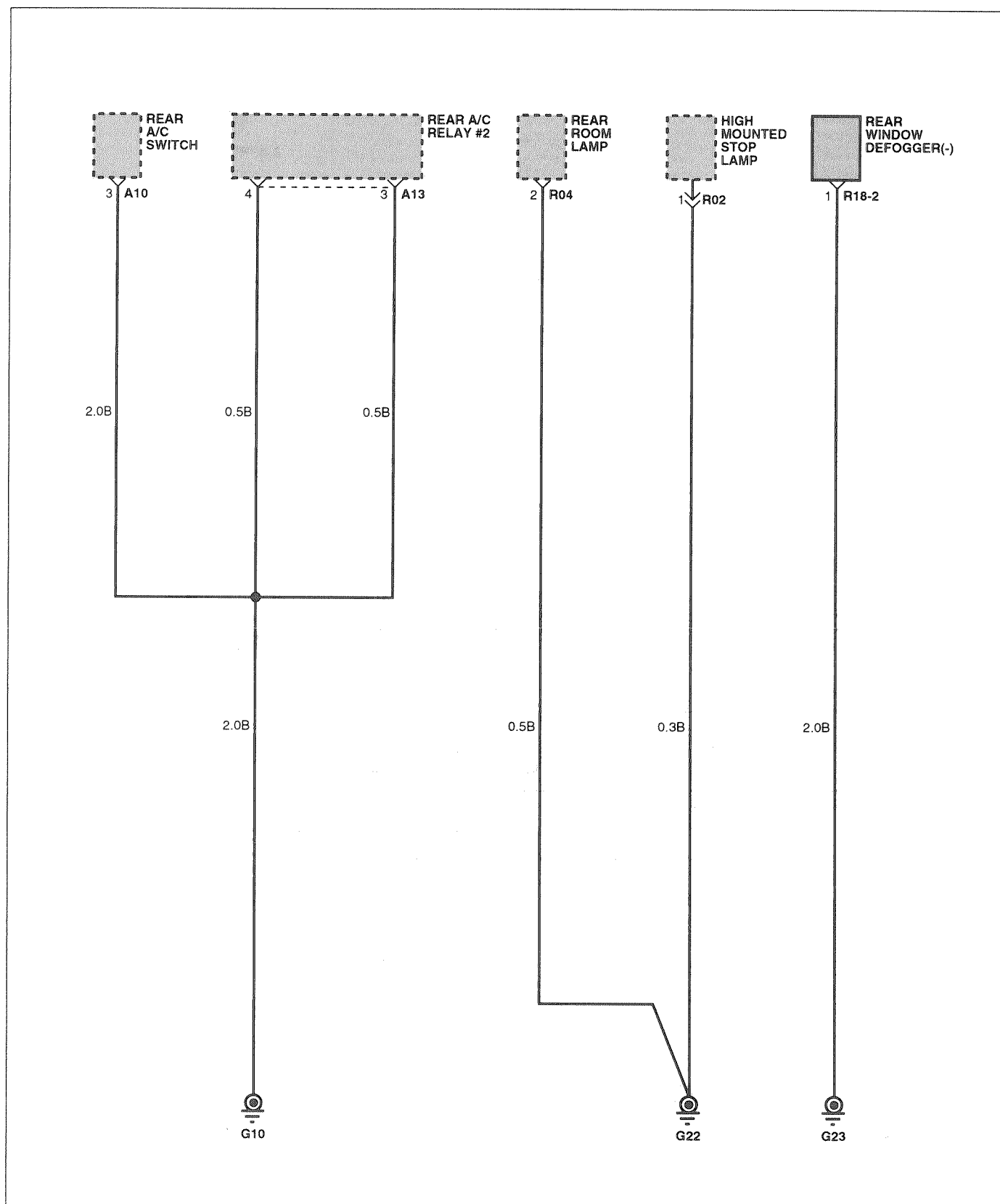
GROUND DISTRIBUTION (10)



GROUND DISTRIBUTION (11)



GROUND DISTRIBUTION (12)



E2XC0050

The diagram illustrates the wiring for the M36 Data Link Connector, which is a 12-pin connector. The connections are as follows:

- Pin 1:** Ground (0.5B)
- Pin 2:** ABS (0.5R/Y)
- Pin 3:** Air Bag (0.5G)
- Pin 4:** Code save (0.5Y/R)
- Pin 5:** K-Line (0.3W/B)
- Pin 6:** Ground (0.5B)
- Pin 7:** ECM (0.5Y/R)
- Pin 8:** ECM (0.5Y/R)
- Pin 9:** ECM (0.5Y/R)
- Pin 10:** Code save (0.5Y/R)
- Pin 11:** Code save (0.5Y/R)
- Pin 12:** ECM (0.5Y/R)

Additional components and their connections:

- ABS Control Module:** Connected to Pin 2 (0.5R/Y) and Pin 6 (0.5R/Y).
- SRS Control Module:** Connected to Pin 3 (0.5G) and Pin 5 (0.5G).
- ECM:** Connected to Pin 4 (0.5Y/R), Pin 5 (0.3Y), Pin 7 (0.3Y), Pin 10 (0.3Br/Y), Pin 11 (0.3W/B), and Pin 12 (0.3W/B).
- Immobilizer Control Module:** Connected to Pin 8 (0.3R/Y) and Pin 9 (0.3R/W).
- Fuel Cut Valve Controller:** Connected to Pin 1 (0.3R/W) and Pin 11 (0.3W/B).
- Instrument Cluster:** Connected to Pin 4 (0.5Y/R) and Pin 10 (0.5Y/R).
- Parking Brake Switch:** Connected to Pin 7 (0.5Y/R) and Pin 8 (0.5Y/R).

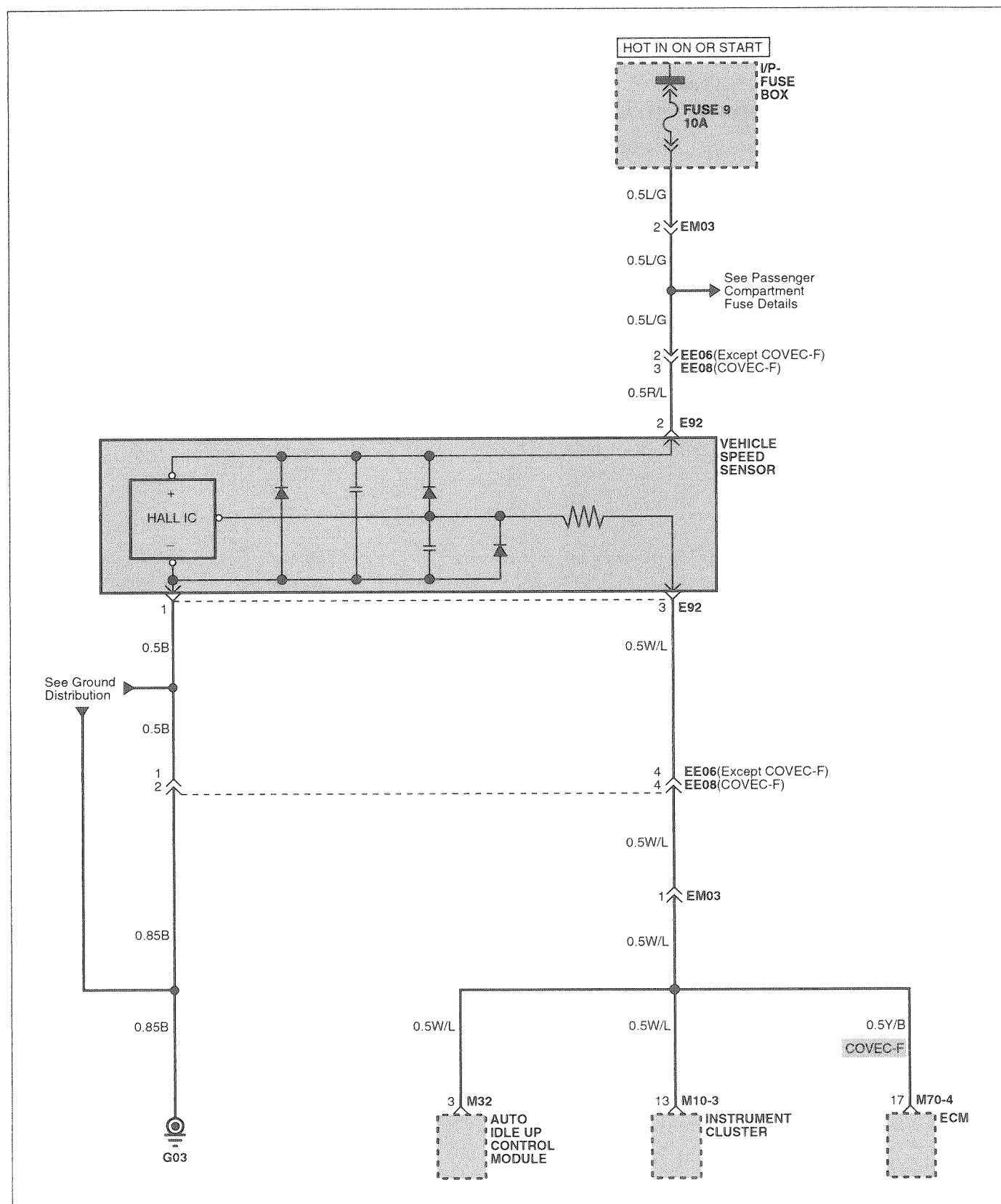
COMPONENT LOCATION INDEX

Components		Location reference-page
E30	ABS control module	CL- 8
E37	Fuel cut valve controller	CL- 8
E70-3	ECM	CL-10
E70-4	ECM	CL-10
M36	Data link connector	CL- 3
M54	Parking brake switch	CL- 4
Connectors		
EM09		CL-12
EM10		CL-12
Grounds		
G07		CL-18

VEHICLE SPEED SENSOR

E2XC0060

VEHICLE SPEED SENSOR (1)



E2XC006A

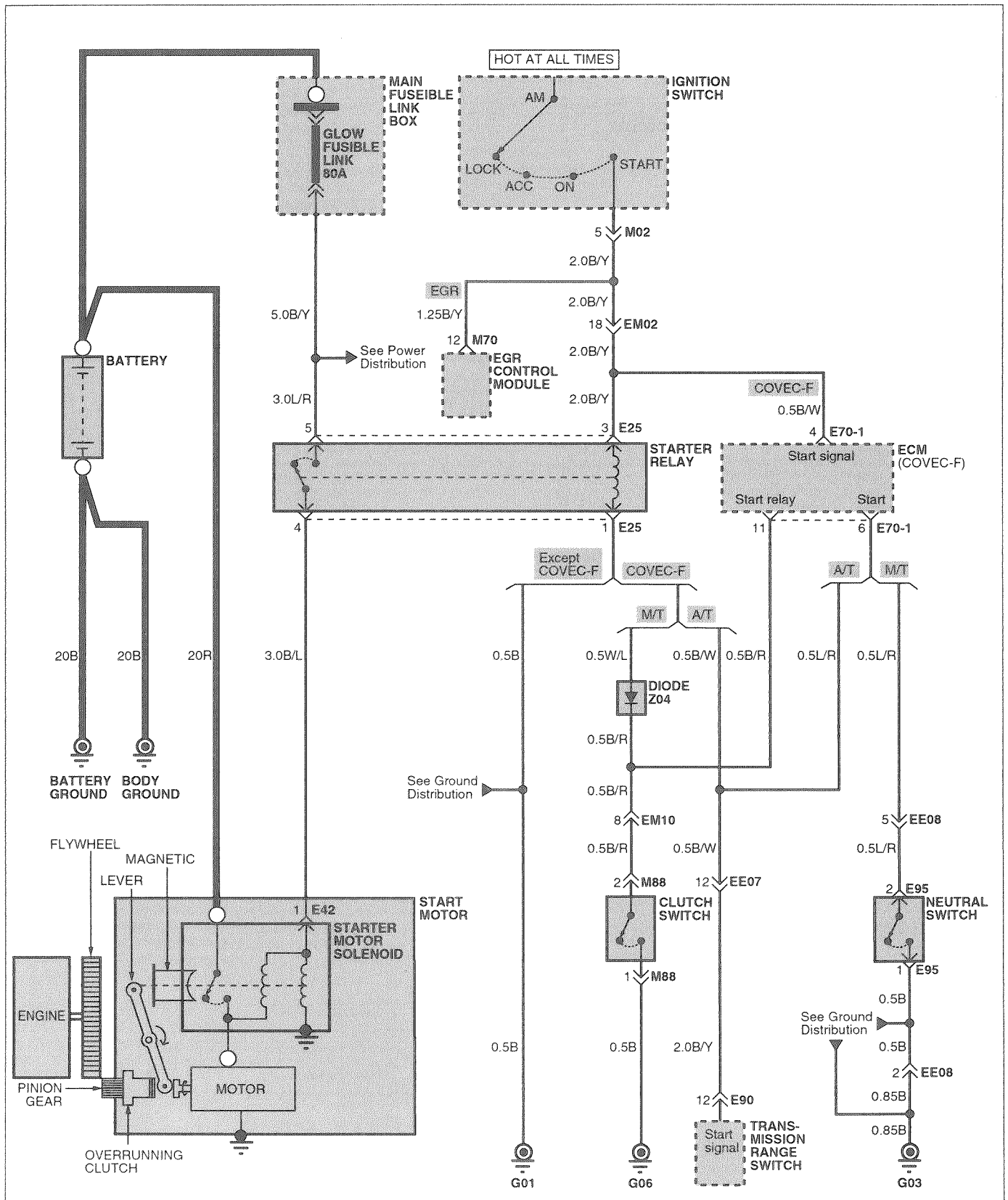
COMPONENT LOCATION INDEX

Components		Location reference-page
E92	Vehicle speed sensor	CL-11
M10-3	Instrument cluster	CL- 2
M32	Auto Idle up control module	CL- 3
Connectors		
EE06		CL-12
EM03		CL-12
Grounds		
G03		CL-18

STARTING SYSTEM

E2XC0080

STARTING SYSTEM (1)



E2XC008A

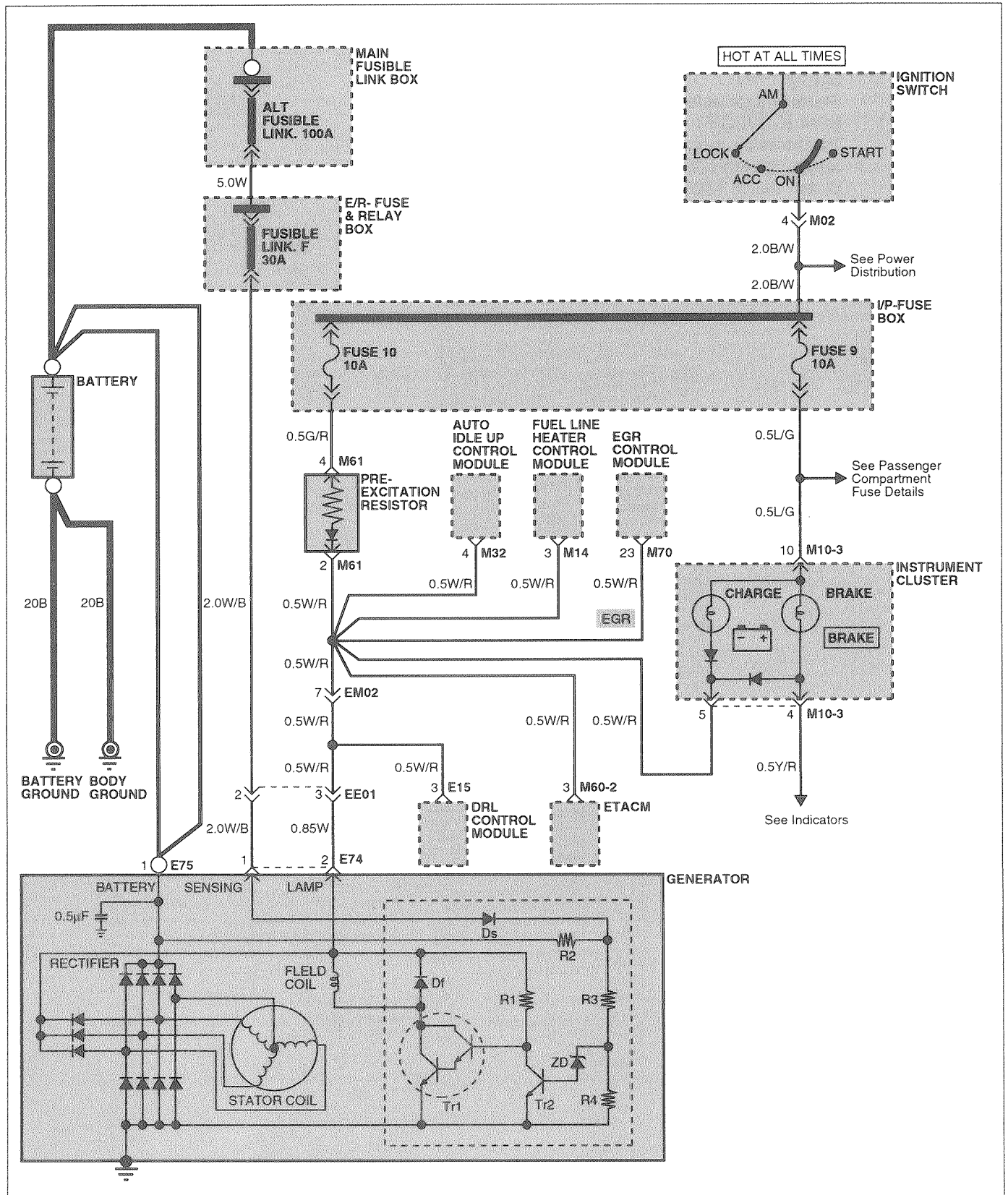
COMPONENT LOCATION INDEX

Components		Location reference-page
E25	Starter relay	CL- 8
E42	Starter motor solenoid	CL- 8
E70-1	ECM (COVEC-F)	CL-10
E90	Transmission range switch	CL-11
E95	Nentral switch (COVEC-F)	CL-11
M88	Clutch switch (COVEC-F)	CL- 5
Connectors		
EE07		CL-12
EE08		CL-12
EM02		CL-12
Grounds		
G01		CL-18
G03		CL-18
G06		CL-18

CHARGING SYSTEM

E2XC0090

CHARGING SYSTEM (1)



E2XC009A

COMPONENT LOCATION INDEX

Components		Location reference-page
E74	Generator (L, S)	CL-10
E75	Generator (B+)	CL-10
M10-3	Instrument cluster	CL- 2
M32	Auto idle up control module	CL- 3
M60-2	ETACM	CL- 4
M61	Pre-excitation resistor	CL- 4
M70	EGR control module	CL- 5
Connectors		
EE01		CL-11
EM02		CL-12

E2XC0110

Wiring Diagram for 1990-91 Ford Bronco

Legend:

- W: White
- R: Red
- L: Light Blue
- B: Black
- Y: Yellow
- G: Green

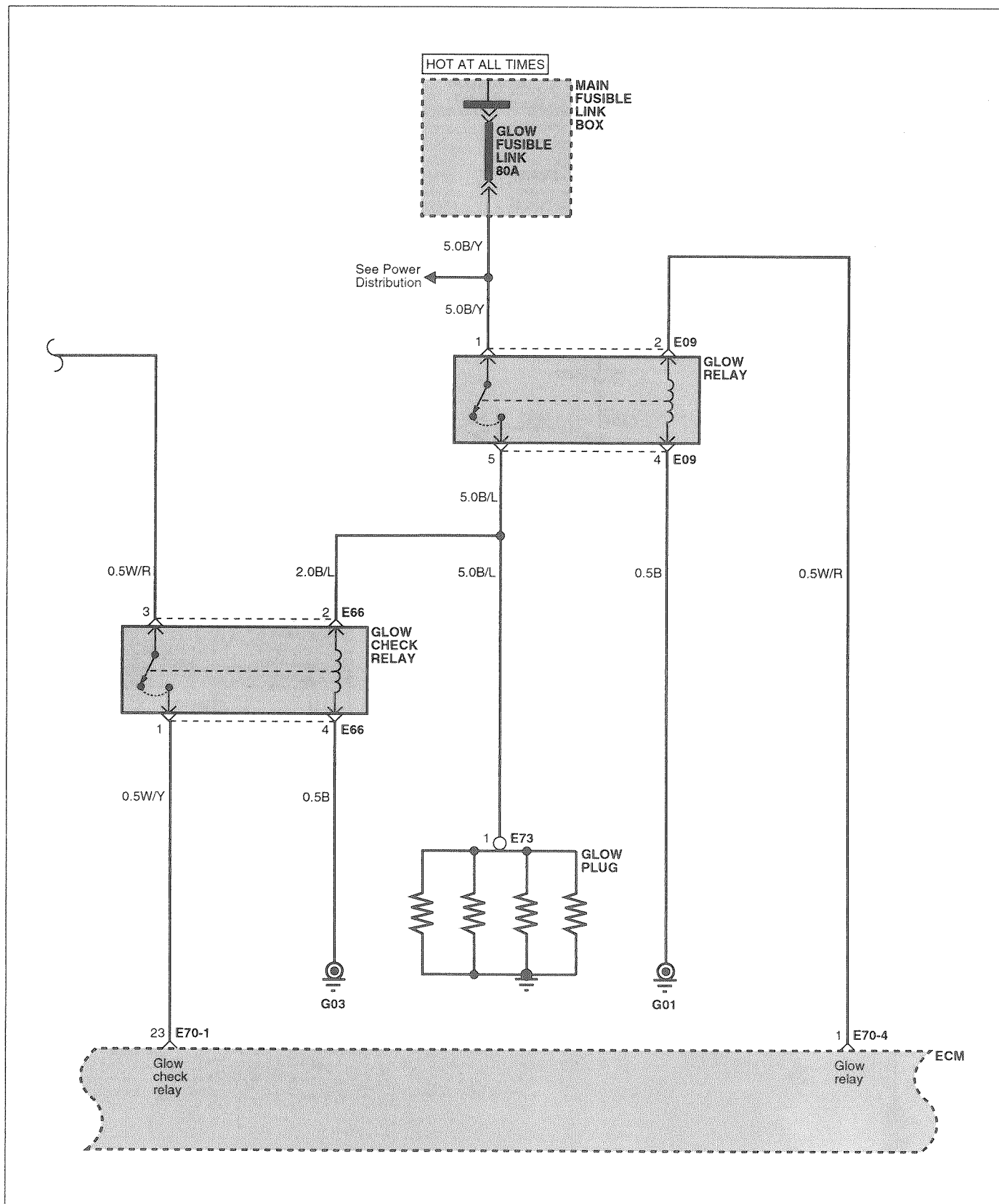
Key Components and Connections:

- Battery Voltage Section:**
 - Hot at all times (20A Fusable Link C) connects to terminal 1 of the E/R-Fuse & Relay Box.
 - Terminal 1 of the E/R-Fuse & Relay Box connects to terminal 3 of the Engine Control Relay.
 - Terminal 3 of the Engine Control Relay connects to terminal 14 of the DSL ENG FUSE 15A.
 - Terminal 14 of the DSL ENG FUSE 15A connects to terminal 3 of the ECM.
- Engine Control Relay Control Section:**
 - Terminal 2 of the E/R-Fuse & Relay Box connects to terminal 2 of the Engine Control Relay.
 - Terminal 2 of the Engine Control Relay connects to terminal 6 of the DSL ENG FUSE 15A.
 - Terminal 6 of the DSL ENG FUSE 15A connects to terminal 10 of the ECM.
- ON/START Input Section:**
 - Hot in on or start (10A Fuse 9) connects to terminal 3 of the I/P-Fuse Box.
 - Terminal 3 of the I/P-Fuse Box connects to terminal 5 of the Engine Control Relay.
 - Terminal 5 of the Engine Control Relay connects to terminal 5 of the ECM.

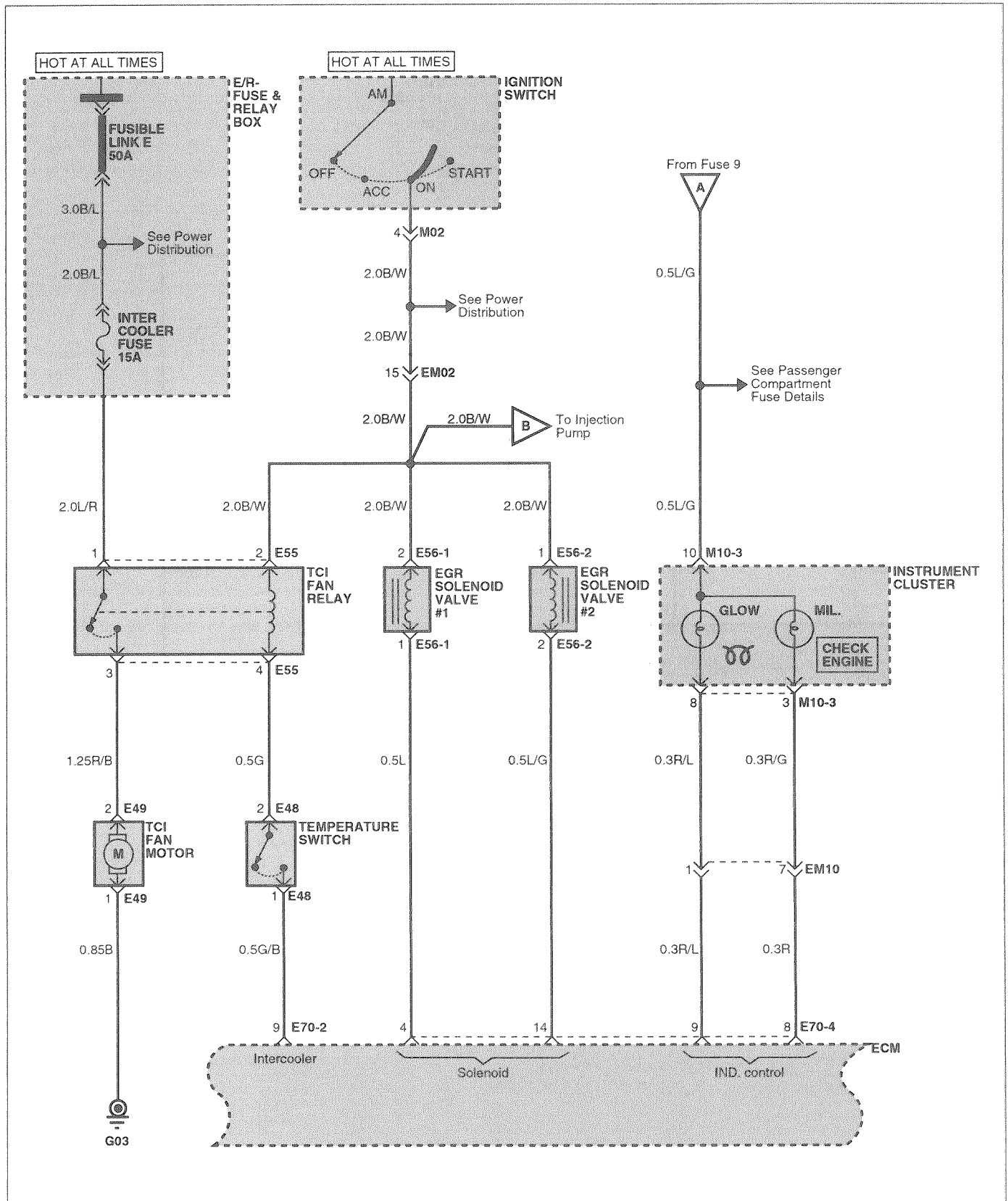
ECM Pinout:

- Pin 3: Battery voltage
- Pin 16: Battery voltage
- Pin 10: Engine control relay control
- Pin 21: Engine control relay control
- Pin 19: Engine control relay control
- Pin 5: ON/START input
- Pin 21: ON/START input
- Pin 24: ON/START input

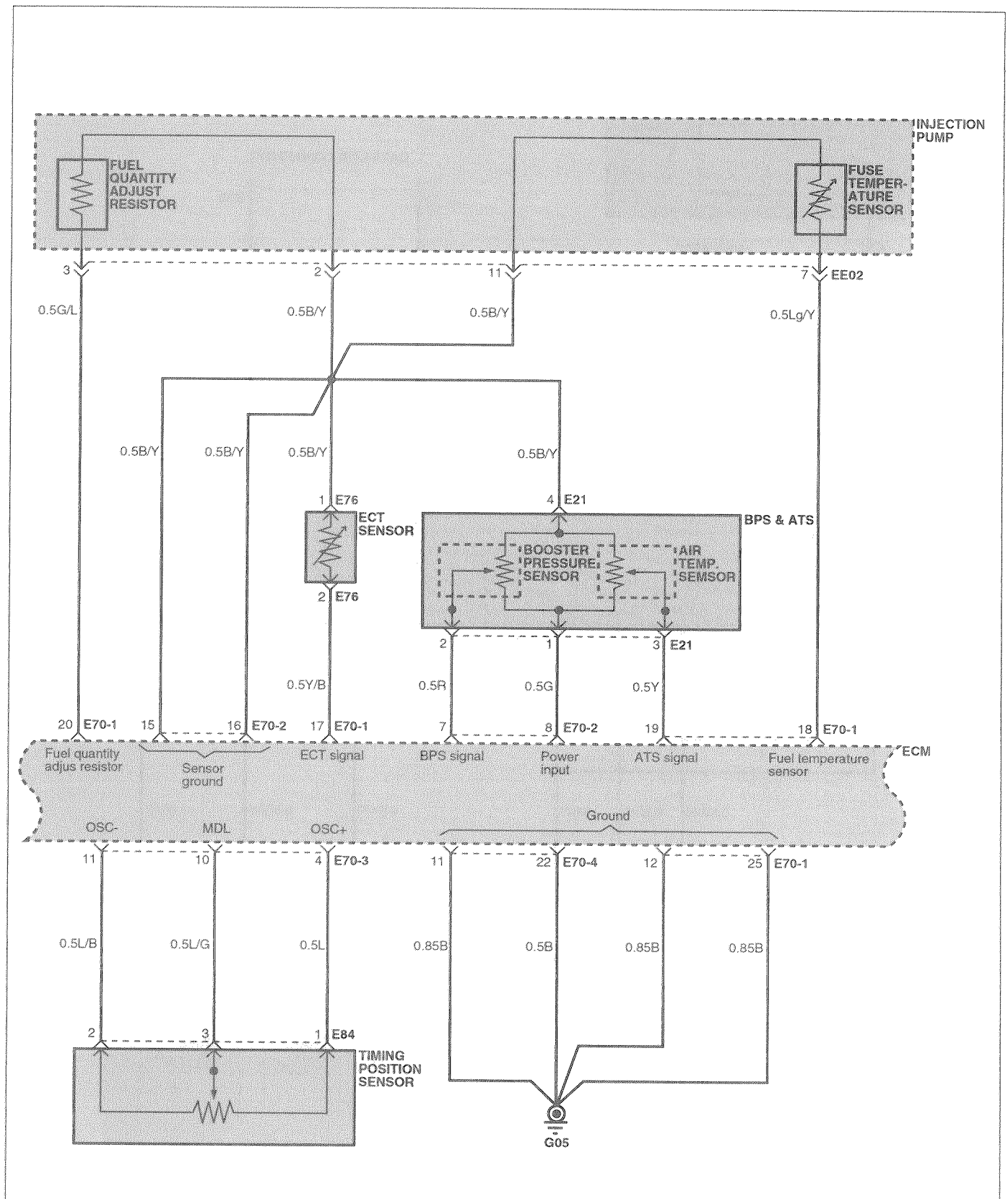
ENGINE CONTROL SYSTEM (COVEC-F) (2)



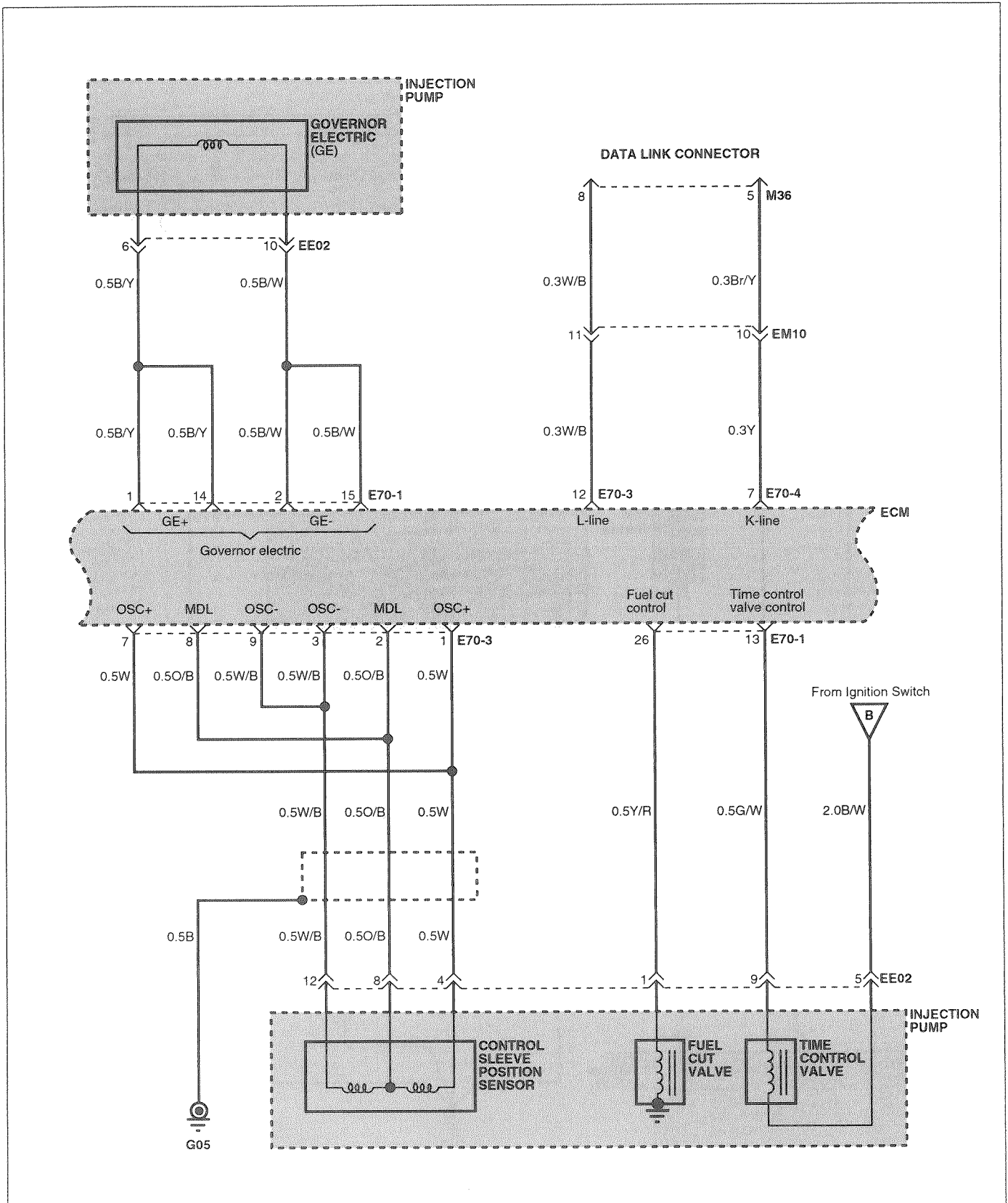
ENGINE CONTROL SYSTEM (COVEC-F) (3)



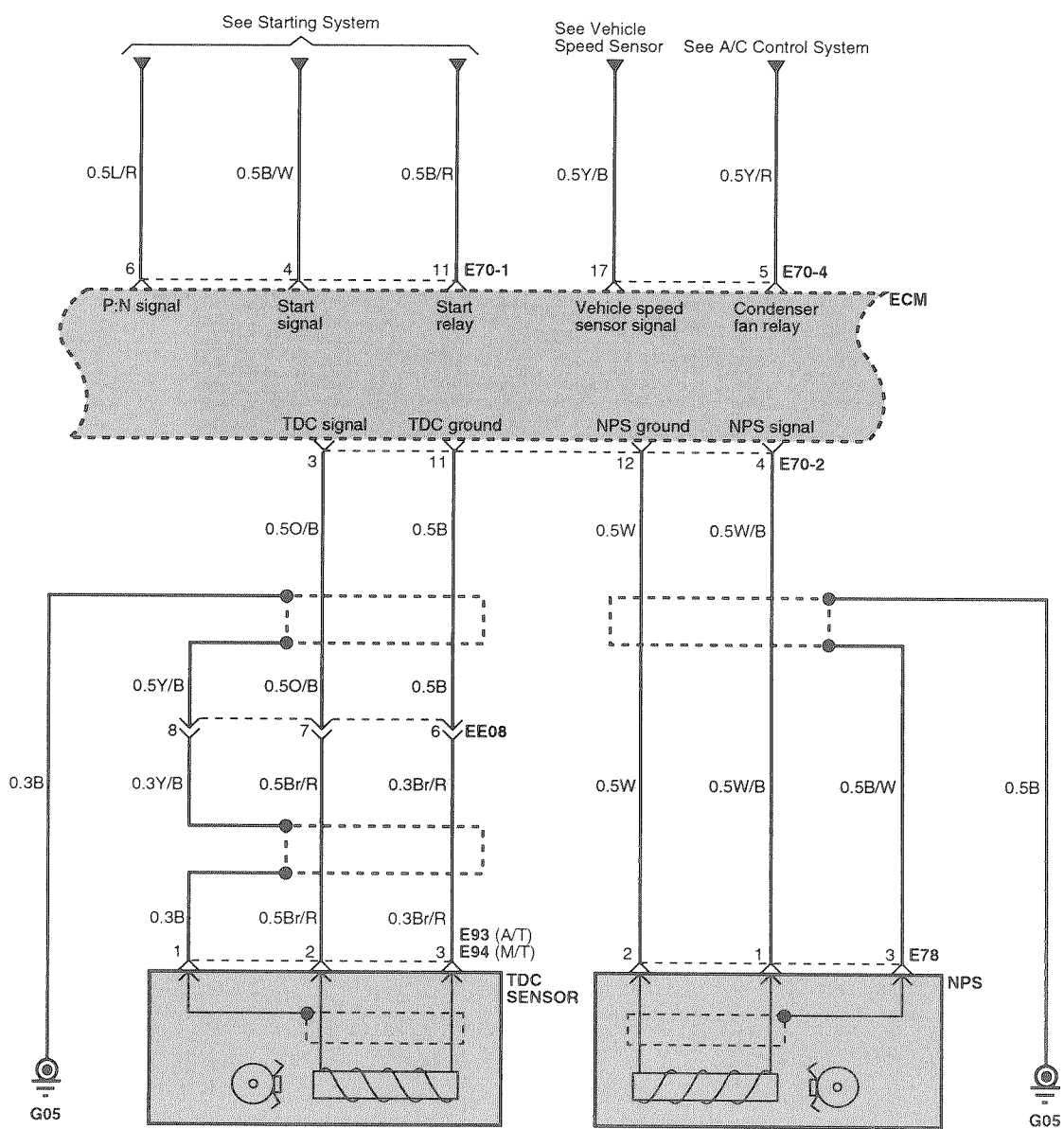
ENGINE CONTROL SYSTEM (COVEC-F) (4)



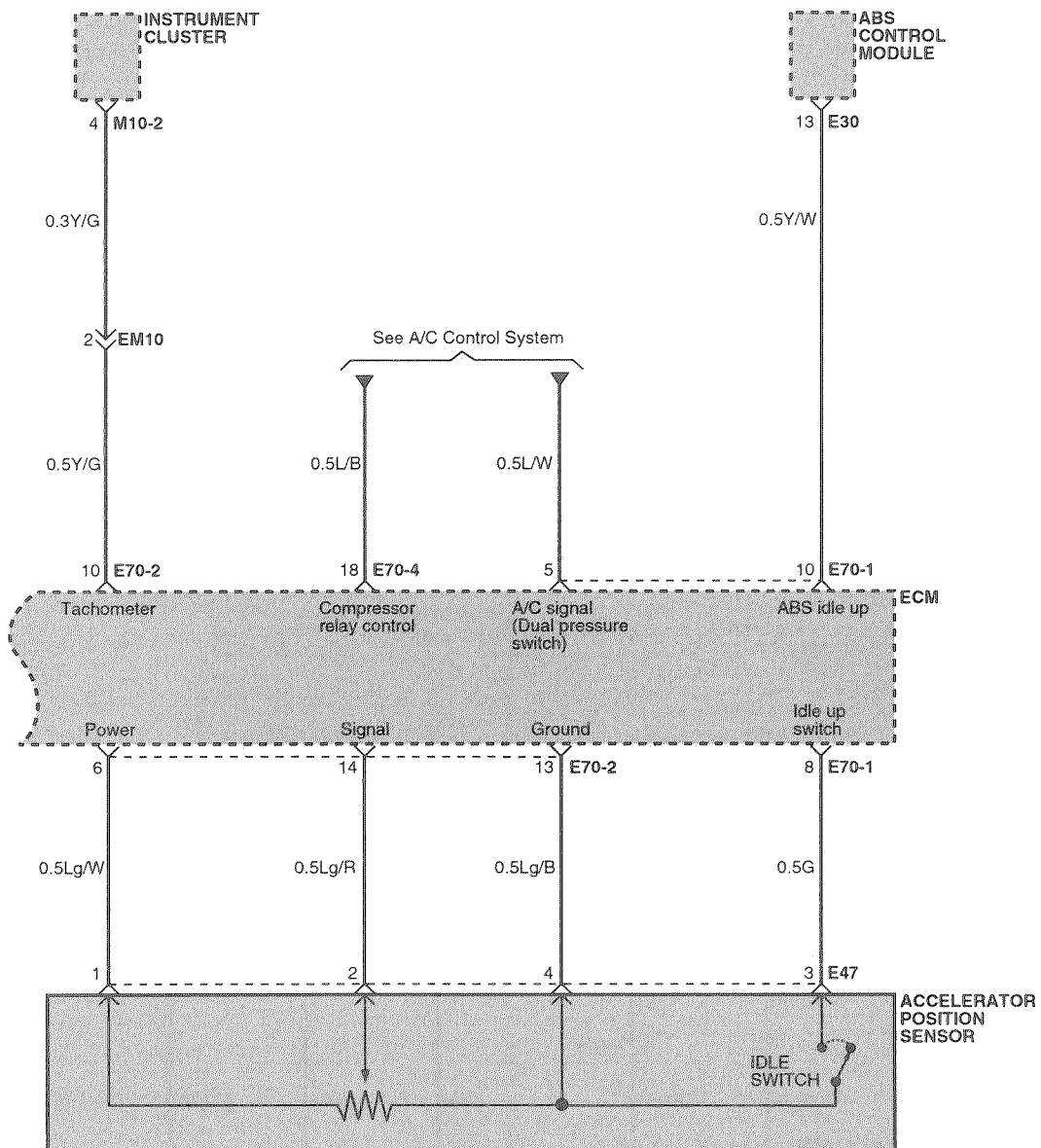
ENGINE CONTROL SYSTEM (COVEC-F) (5)



ENGINE CONTROL SYSTEM (COVEC-F) (6)



ENGINE CONTROL SYSTEM (COVEC-F) (7)



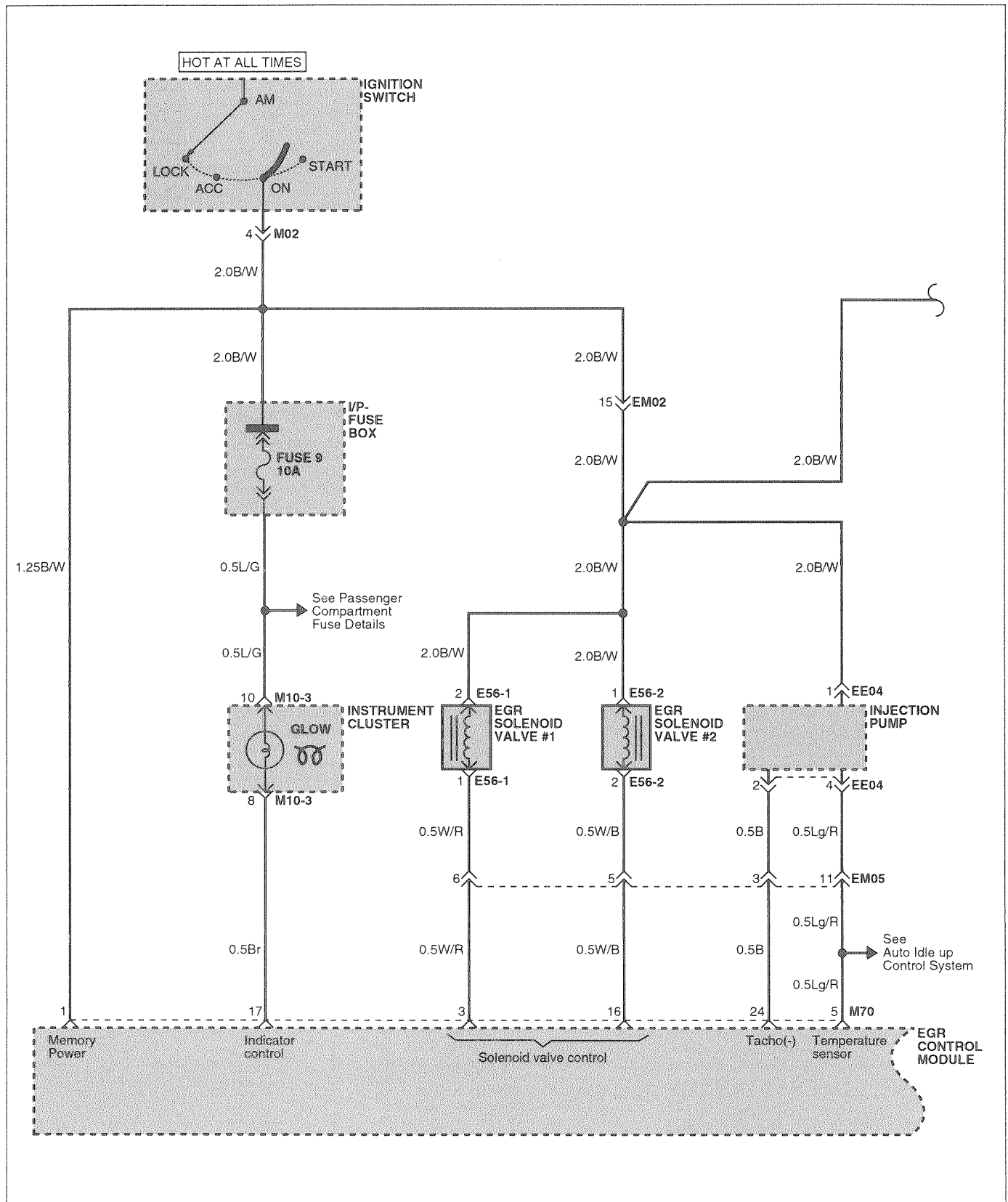
COMPONENT LOCATION INDEX

Components		Location reference-page
E09	Glow relay	CL- 7
E21	BPS & ATS	CL- 7
E30	ABS control module	CL- 8
E47	Accelerator position sensor	CL- 9
E48	Temperature switch	CL- 9
E49	TCI fan motor	CL- 9
E55	TCI fan relay	CL- 9
E56-1	EGR solenoid valve #1	CL- 9
E56-2	EGR solenoid valve #2	CL- 9
E66	Glow check relay	CL- 9
E70-1	ECM	CL-10
E70-2	ECM	CL-10
E70-3	ECM	CL-10
E70-4	ECM	CL-10
E73	Glow plug	CL-10
E76	Water temperature sensor	CL-10
E78	NPS	CL-10
E84	TPS	CL-10
E93	TDC sensor (A/T)	CL-11
E94	TDC sensor (M/T)	CL-11
M10-2	Instrument cluster	CL- 2
M10-3	Instrument cluster	CL- 2
M36	Data link connector	CL- 3
Components		
EE02		CL-11
EE08		CL-12
EM02		CL-12
EM10		CL-12
Grounds		
G01		CL-18
G03		CL-18
G05		CL-18

ENGINE CONTROL SYSTEM (EGR)

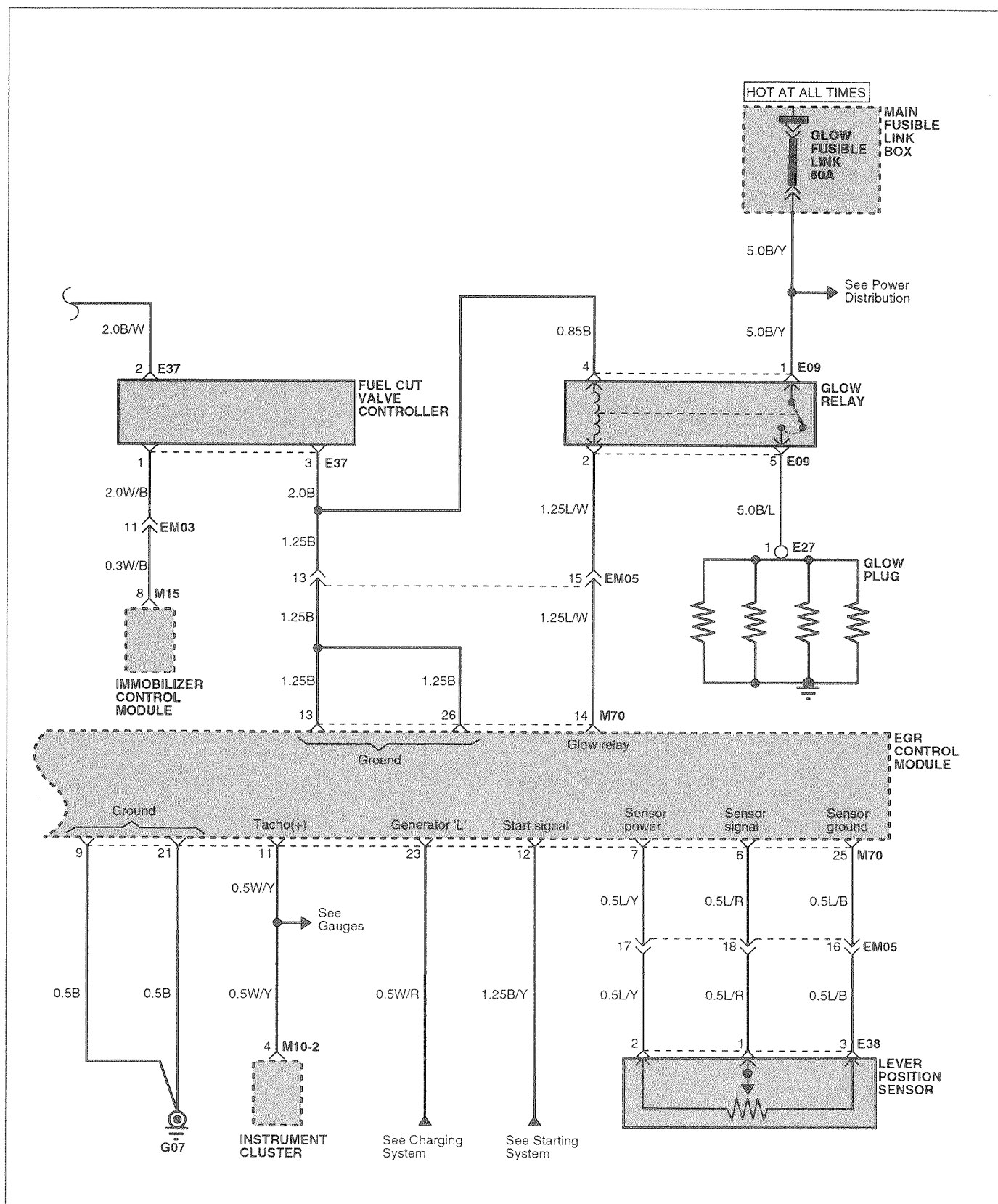
E2XC0120

ENGINE CONTROL SYSTEM (EGR) (1)



E2XC012A

ENGINE CONTROL SYSTEM (EGR) (2)



COMPONENT LOCATION INDEX

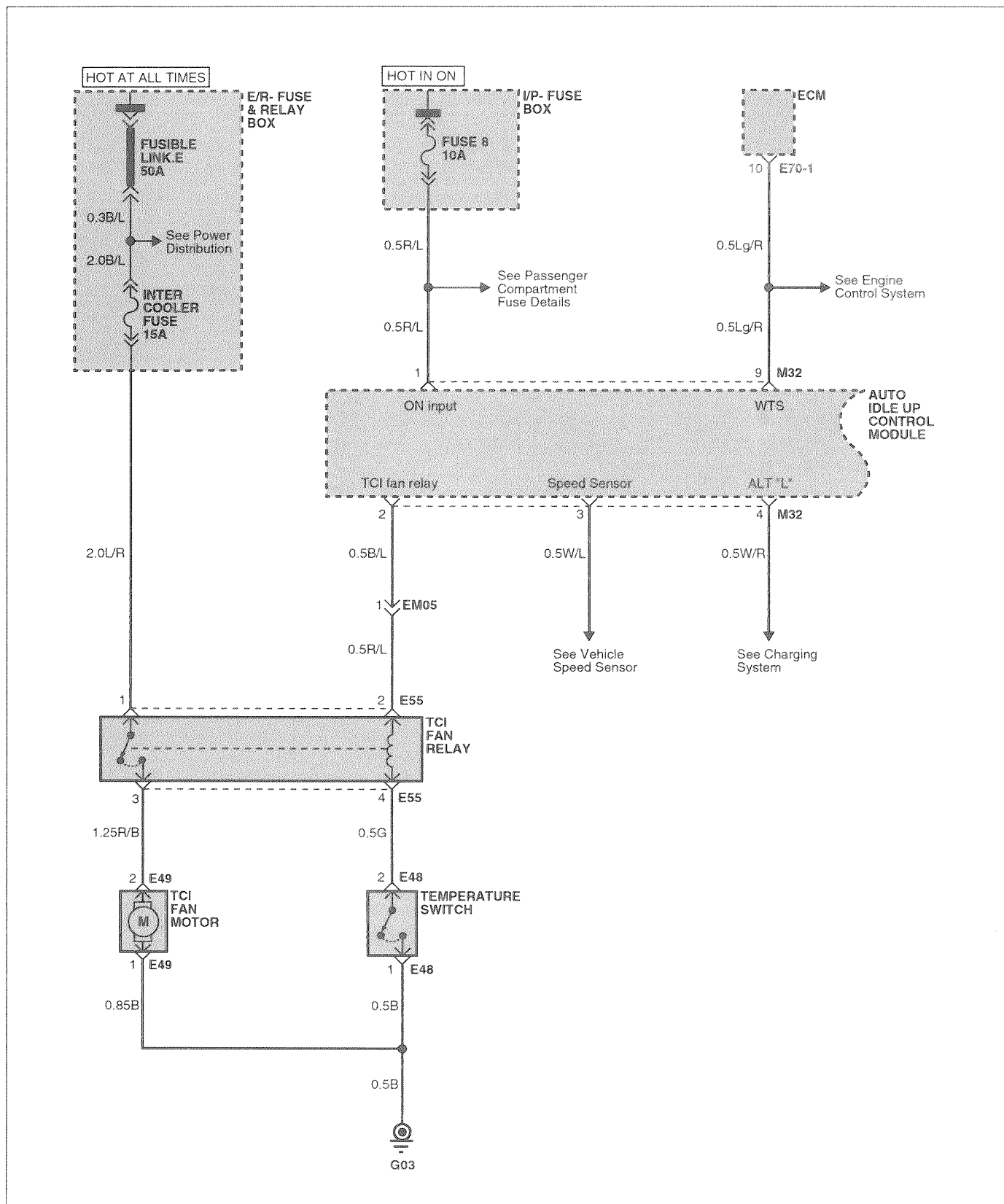
Components		Location reference-page
E09	Glow relay	CL- 7
E27	Glow plug	CL- 8
E37	Fuel cut valve controller	CL- 8
E38	Lever position sensor	CL- 8
E56-1	EGR solenoid valve #1	CL- 9
E56-2	EGR solenoid valve #2	CL- 9
M10-2	Instrument cluster	CL- 2
M10-3	Instrument cluster	CL- 2
M70	EGR control module	CL- 5
Connectors		
EE04		CL-12
EM02		CL-12
EM03		CL-12
EM05		CL-12
Grounds		
G07		CL-18

MEMO

AUTO IDLE UP CONTROL SYSTEM

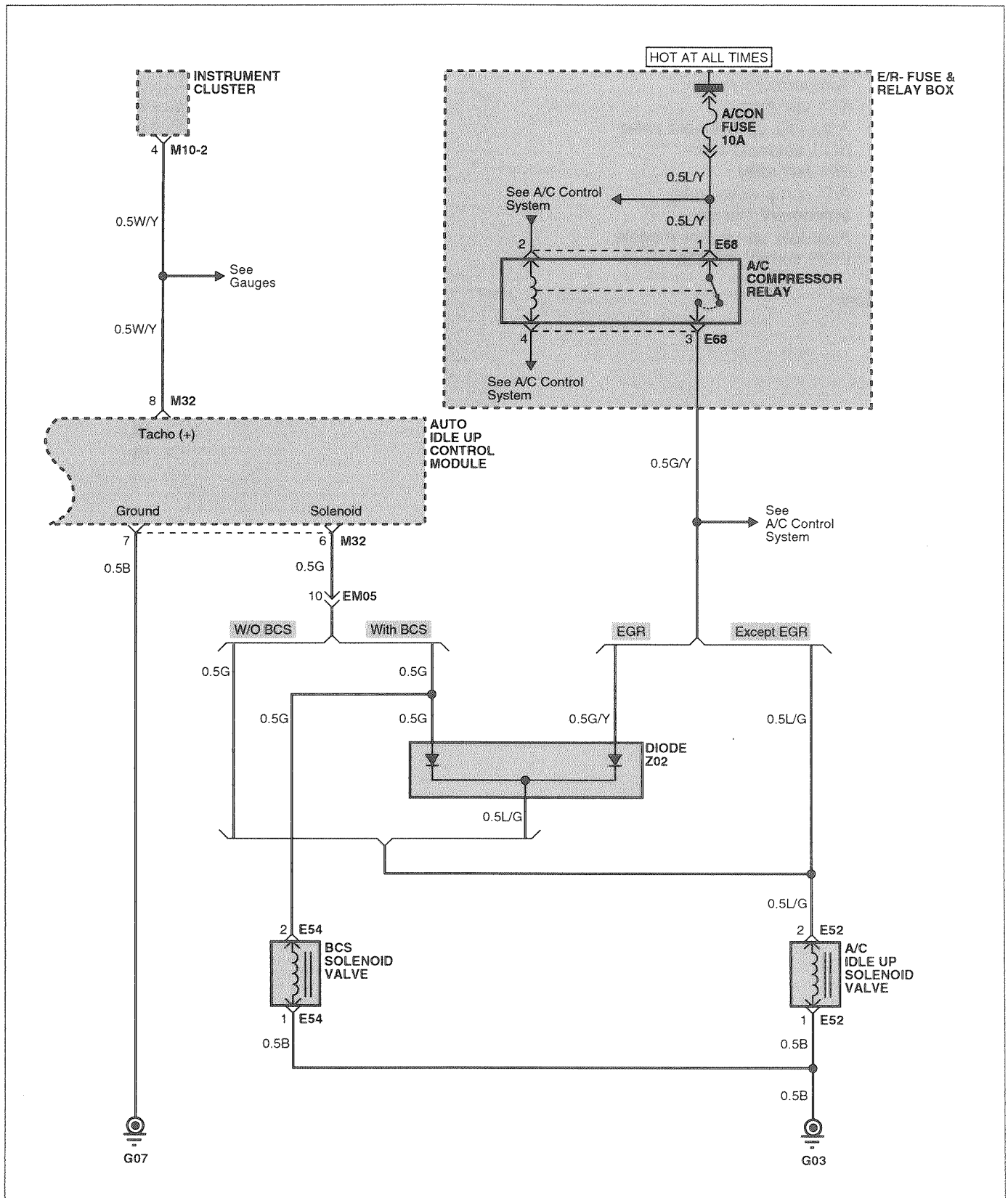
E2XC0170

AUTO IDLE UP CONTROL SYSTEM (1)



E2XC017A

AUTO IDLE UP CONTROL SYSTEM (2)



COMPONENT LOCATION INDEX

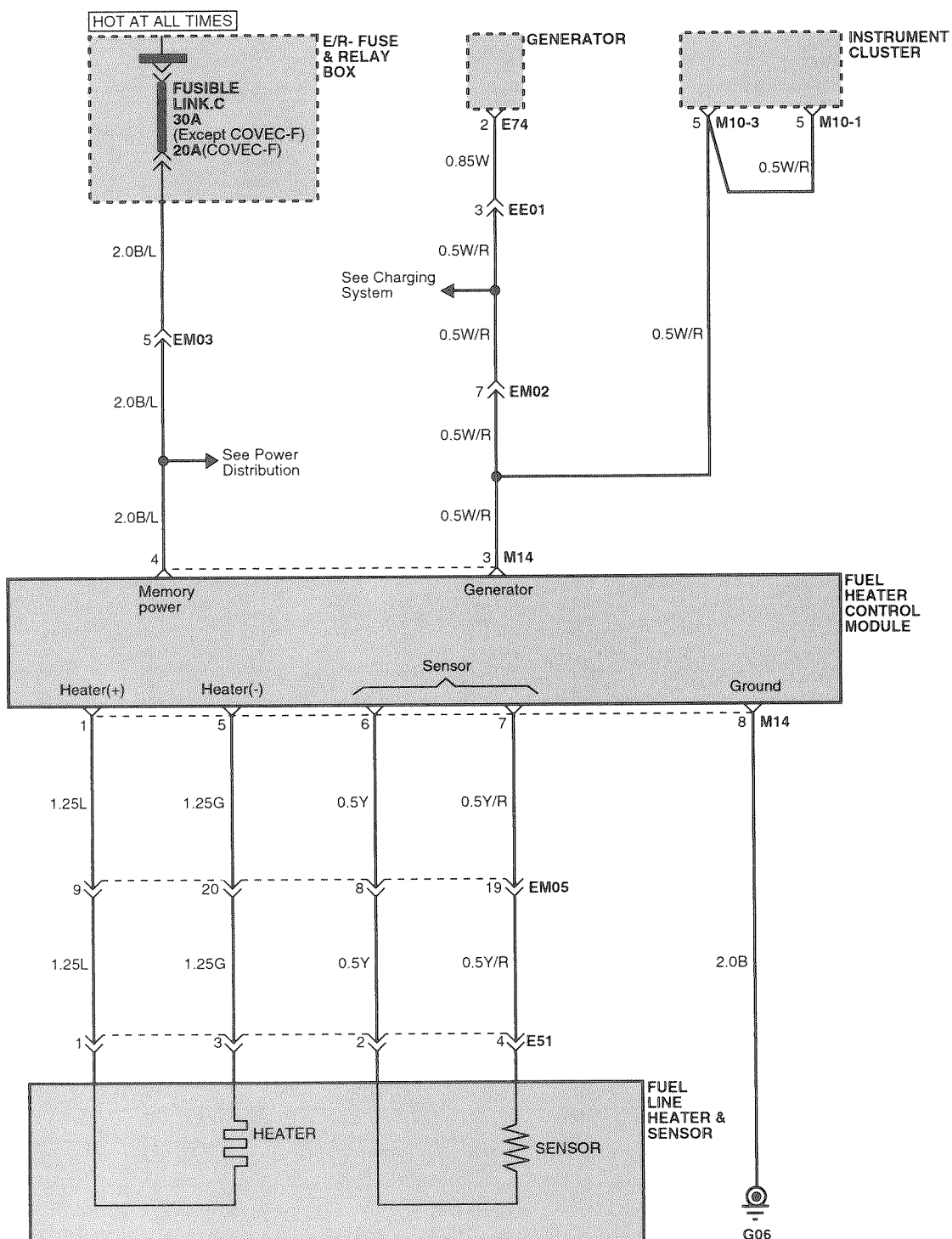
Components		Location reference-page
E48	Temperature switch	CL- 9
E49	TCI fan motor	CL- 9
E52	Auto idle up solenoid valve	CL- 9
E54	BCS solenoid valve	CL- 9
E55	TCI fan relay	CL- 9
E68	A/C compressor relay	CL- 9
M10-2	Instrument Cluster	CL- 2
M32	Autot idle up control module	CL- 3
M70	EGR control module	CL- 5
Connectors		
EM05		CL-12
Grounds		
G03		CL-18
G07		CL-18
Diodes		
Z02		CL-19

MEMO

FUEL HEATER CONTROL SYSTEM

E2XC0130

FUEL HEATER CONTROL SYSTEM (1)



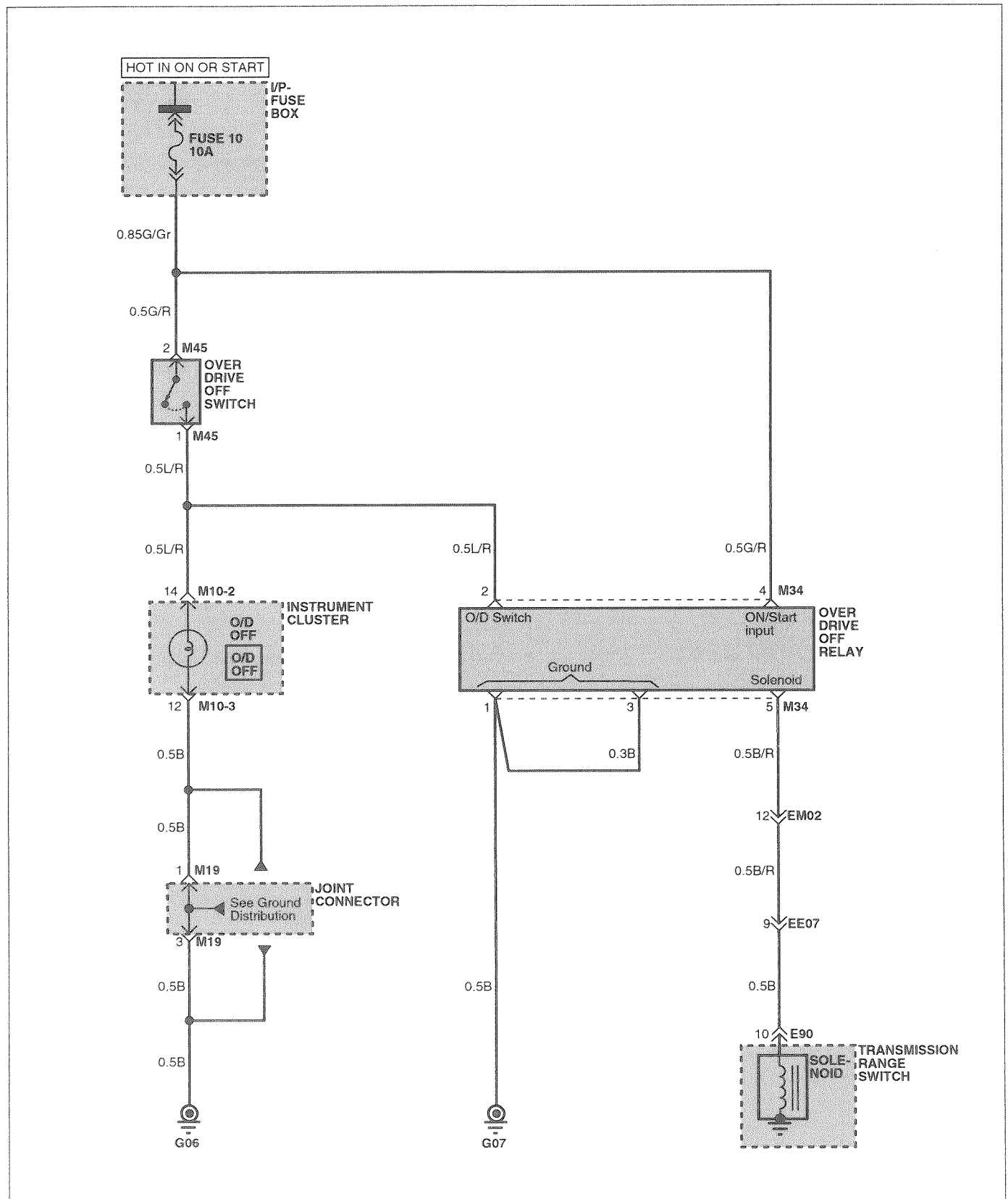
COMPONENT LOCATION INDEX

Components		Location reference-page
E51	Fuel line heater & sensor	CL- 9
E74	Generator	CL-10
M10-3	Instrument cluster	CL- 2
Connectors		
EE01		CL-11
EM02		CL-12
EM03		CL-12
EM05		CL-12
Grounds		
G06		CL-18

OVER DRIVE OFF SWITCH

E2XC0140

OVER DRIVE OFF SWITCH (1)



E2XC014A

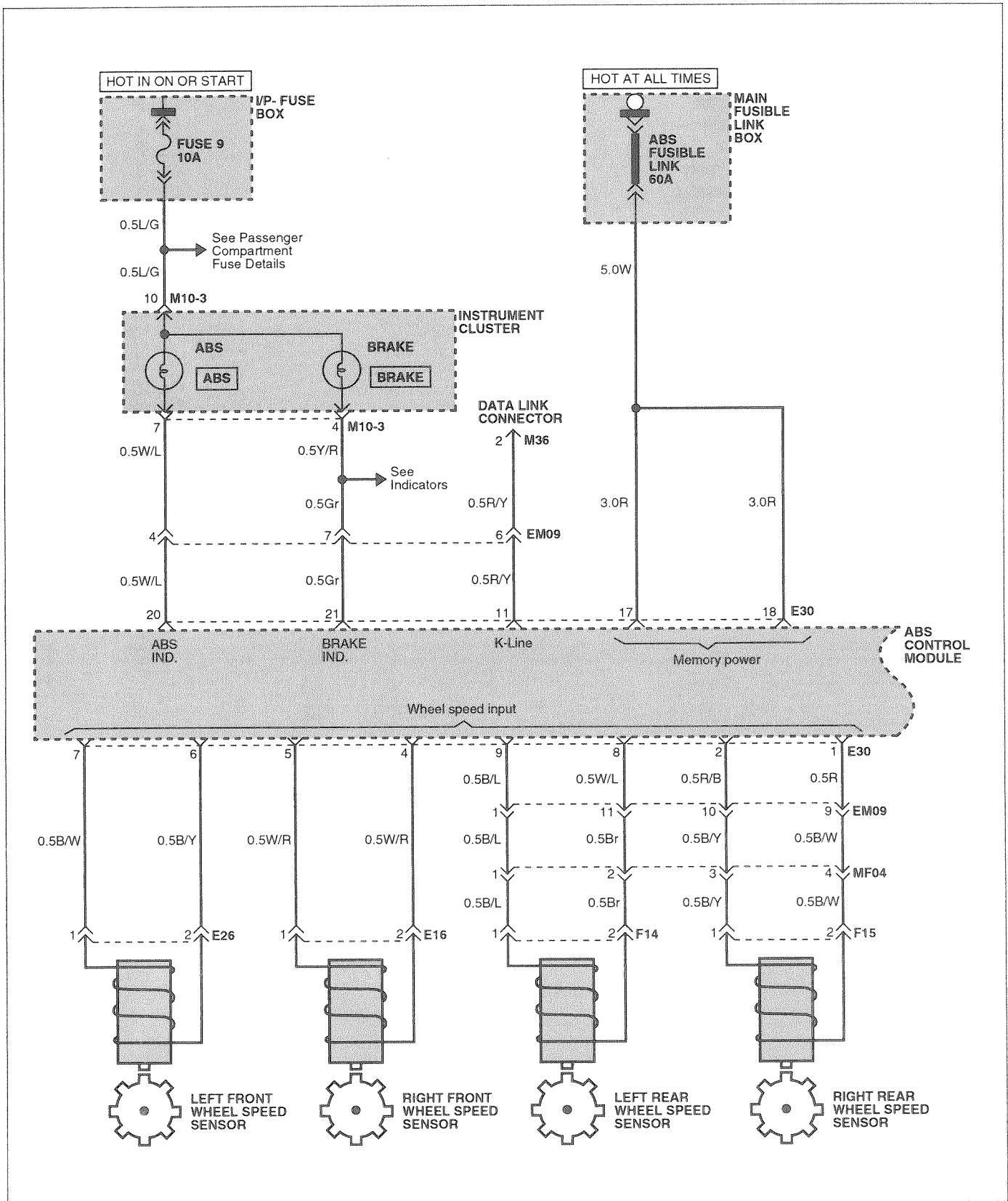
COMPONENT LOCATION INDEX

Components		Location reference-page
E90	Transmission range switch	CL-11
M10-2	Instrument cluster	CL- 2
M10-3	Instrument cluster	CL- 2
M19	Joint connector	CL- 2
M34	Over drive off relay	CL- 3
M45	Over drive off switch	CL- 3
Connectors		
EE07		CL-12
EM02		CL-12
Grounds		
G06		CL-18
G07		CL-18

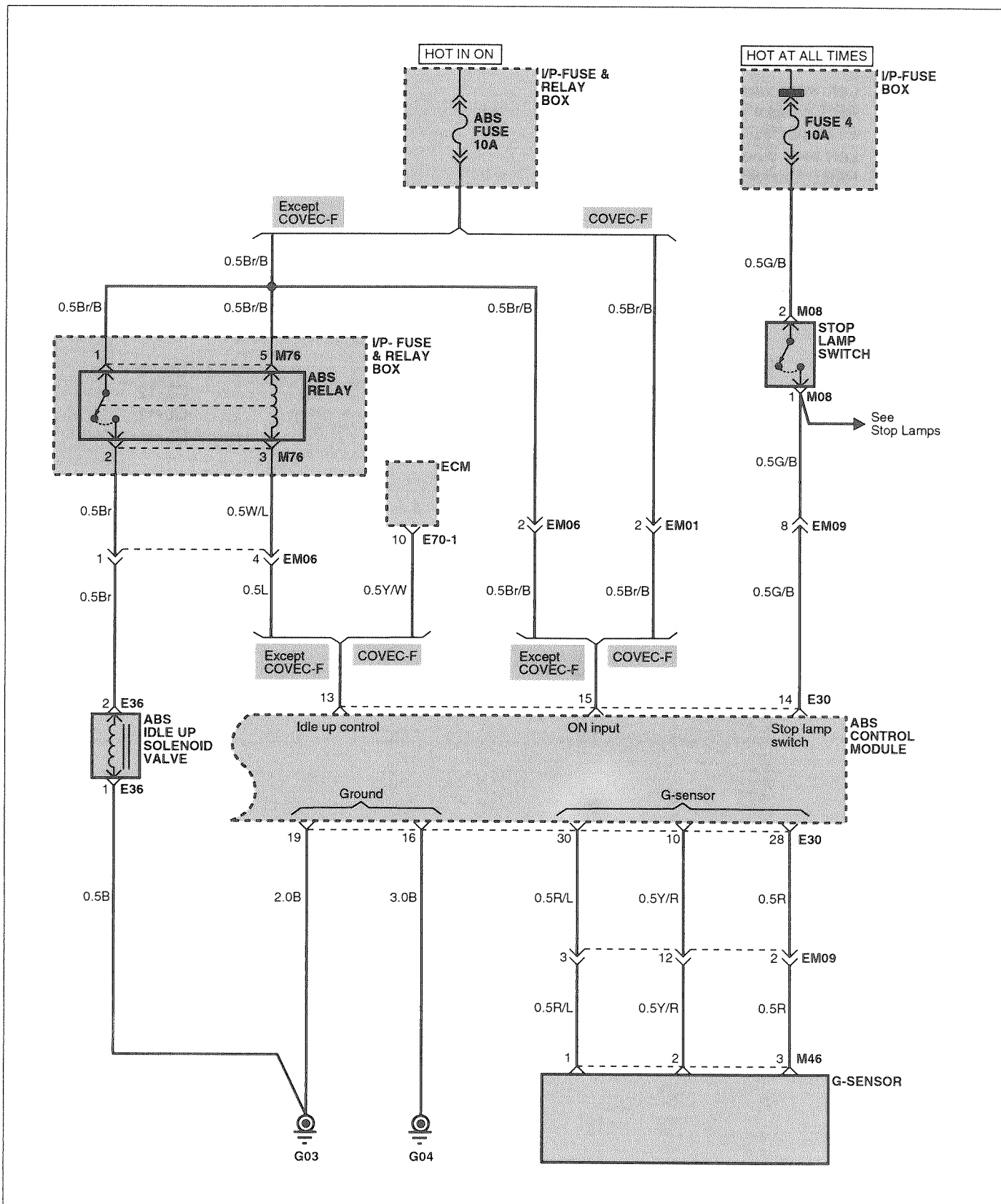
ANTI-LOCK BRAKE SYSTEM

E2XC0150

ANTI-LOCK BRAKE SYSTEM (1)



ANTI-LOCK BRAKE SYSTEM (2)



COMPONENT LOCATION INDEX

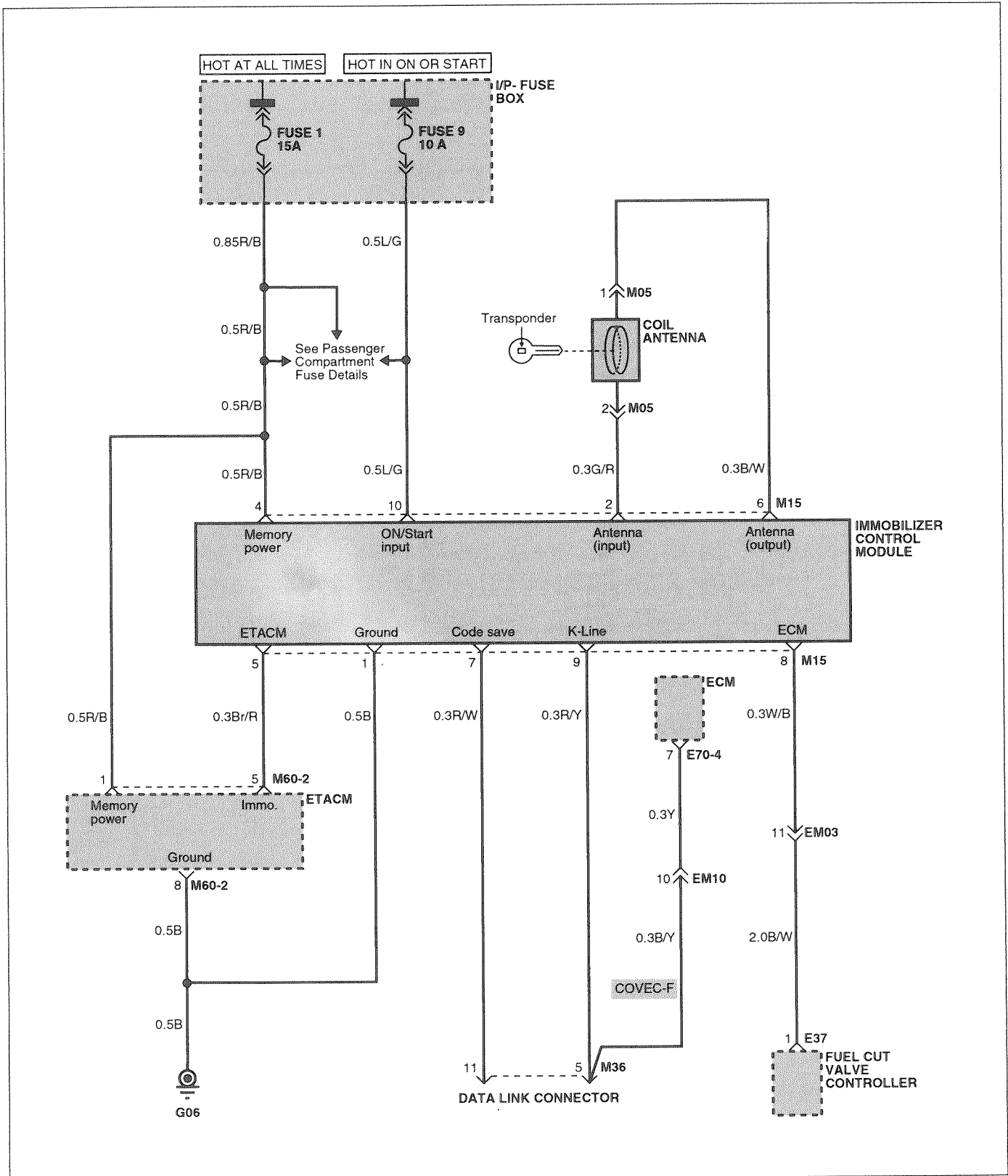
Components		Location reference-page
E26	Left front wheel speed sensor	CL- 8
E30	ABS control module	CL- 8
E70-1	ECM (COVEC-F)	CL-10
F14	Left rear wheel speed sensor	CL-13
F15	Right rear wheel speed sensor	CL-13
M08	Stop lamp switch	CL- 2
M10-3	Instrument cluster	CL- 2
M36	Data link connector	CL- 3
M46	G-sensor	CL- 3
M76	ABS relay (W/O COVEC-F)	CL- 5
Connectors		
EM01		CL-12
EM06		CL-12
EM09		CL-12
MF04		CL- 6
Grounds		
G03		CL-18
G04		CL-18

MEMO

IMMOBILIZER CONTROL SYSTEM

E2XC0160

IMMOBILIZER CONTROL SYSTEM (1)



E2XC016A

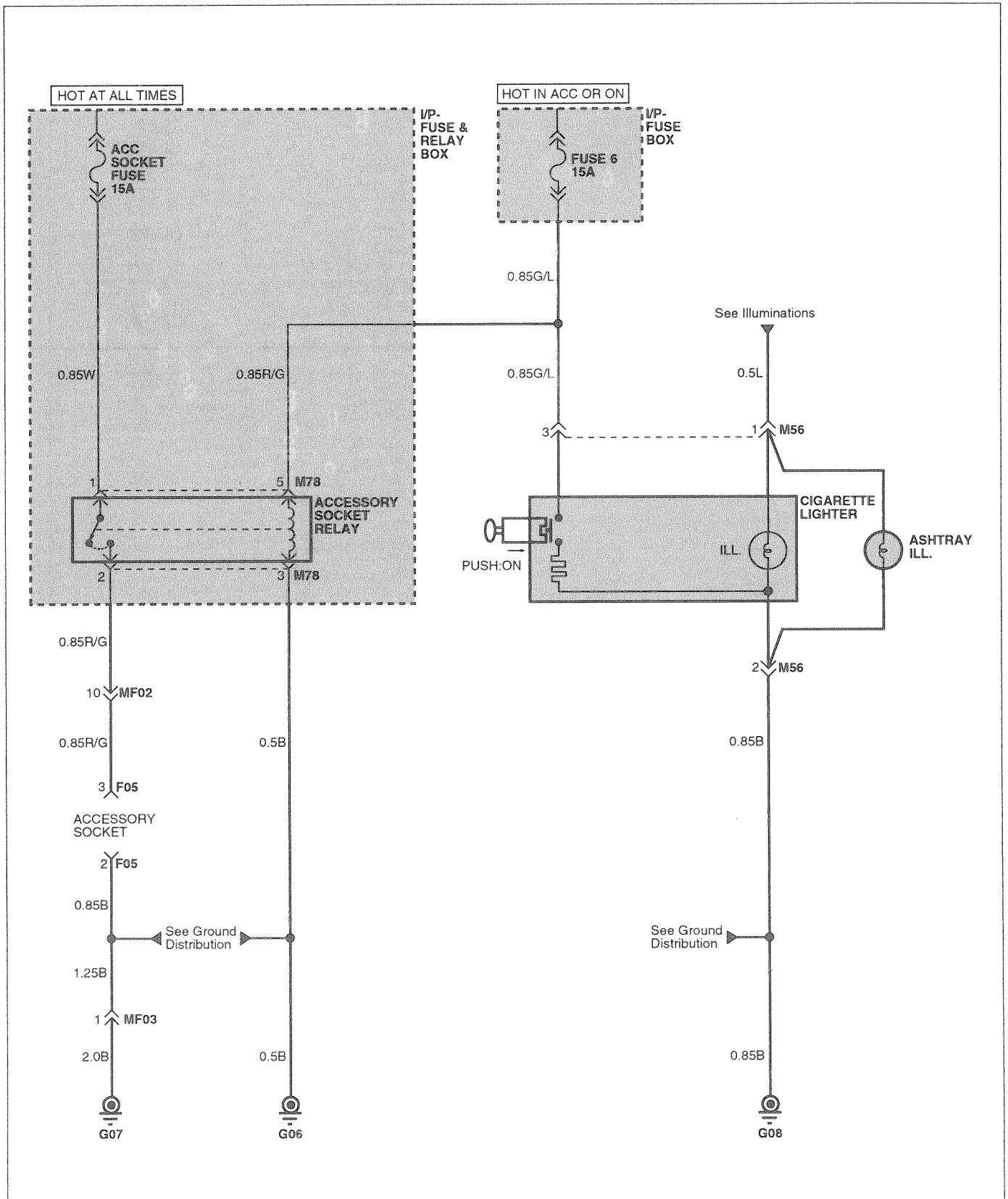
COMPONENT LOCATION INDEX

Components		Location reference-page
E37	Fuel cut valve controller	CL- 8
E70-1	ECM	CL-10
M05	Coil antenna	CL- 2
M60-2	ETACM	CL- 4
Connectors		
EM03		CL-12
Grounds		
G06		CL-18

CIGARETTE LIGHTER (POWER OUTLET)

E2XC0180

CIGARETTE LIGHTER (POWER OUTLET) (1)



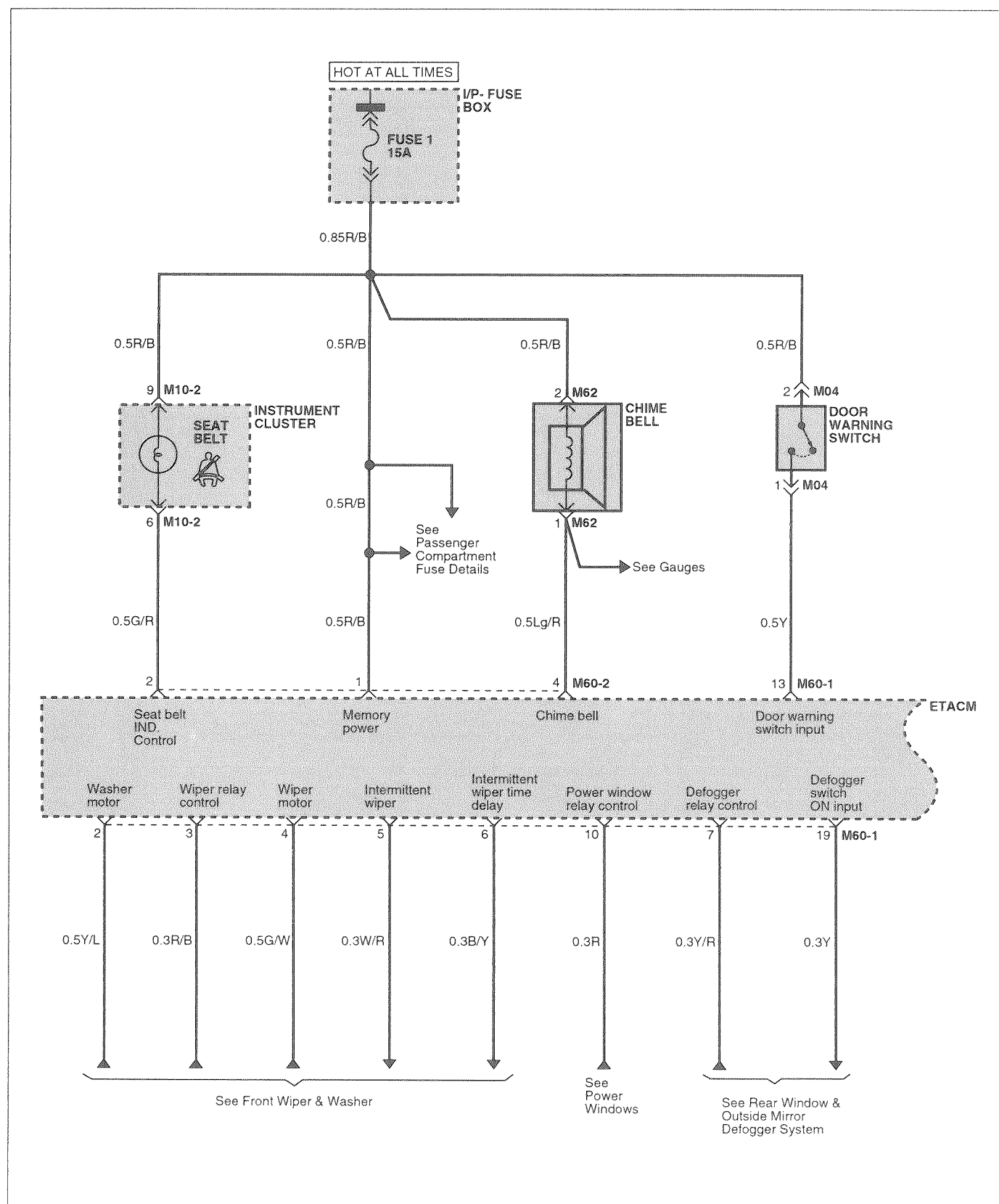
E2XC018A

COMPONENT LOCATION INDEX

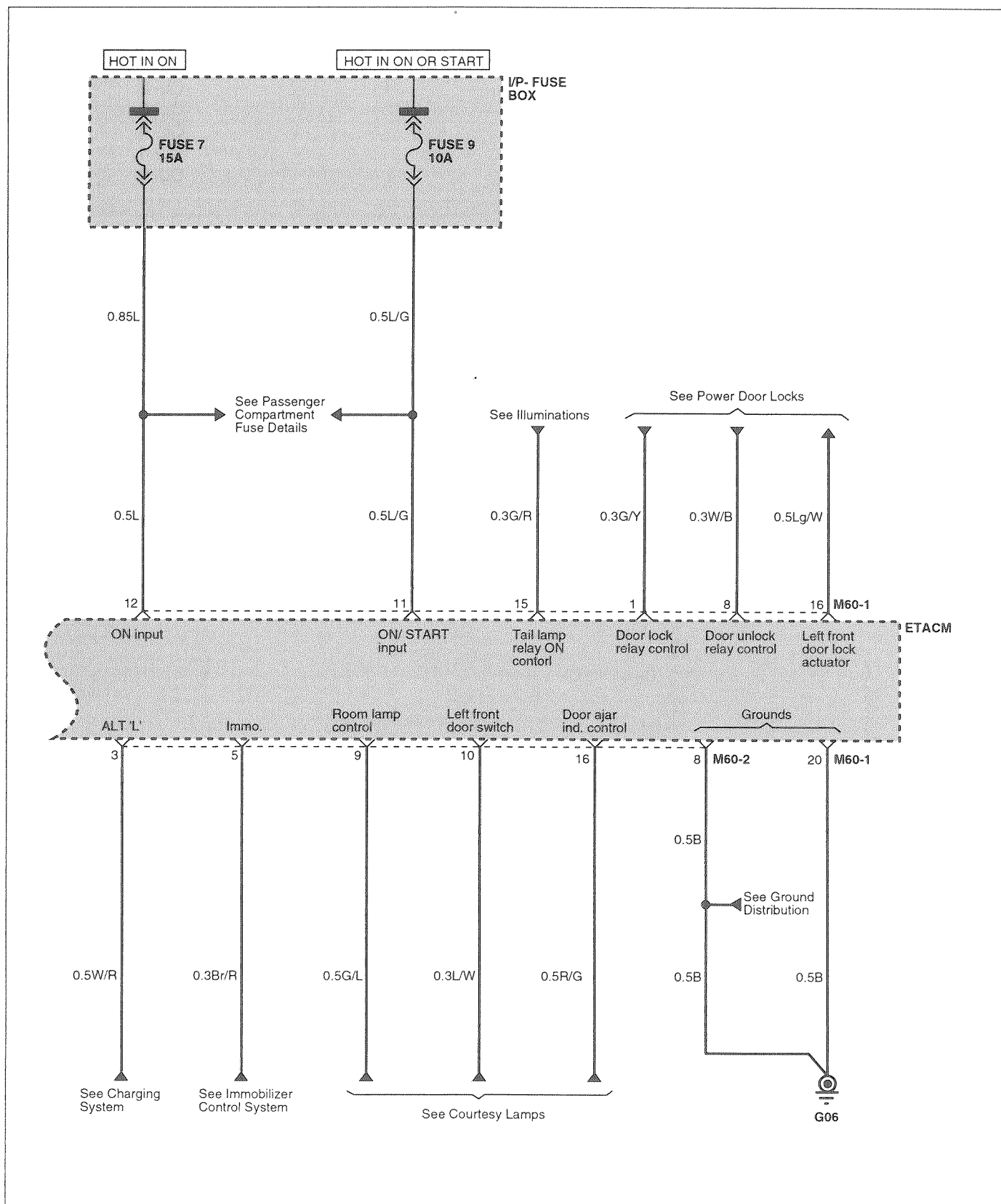
Components		Location reference-page
F05	Accessory socket	CL-13
M56	Cigarette lighter	CL- 4
M78	Accessory socket relay	CL- 5
Connectors		
MF02		CL- 6
MF03		CL- 6
Grounds		
G06		CL-18
G07		CL-18
G08		CL-18

E2XC0200

ETACS (ELECTRONIC TIME & ALARM CONTROL SYSTEM) (1)



ETACS (ELECTRONIC TIME & ALARM CONTROL SYSTEM) (2)



COMPONENT LOCATION INDEX

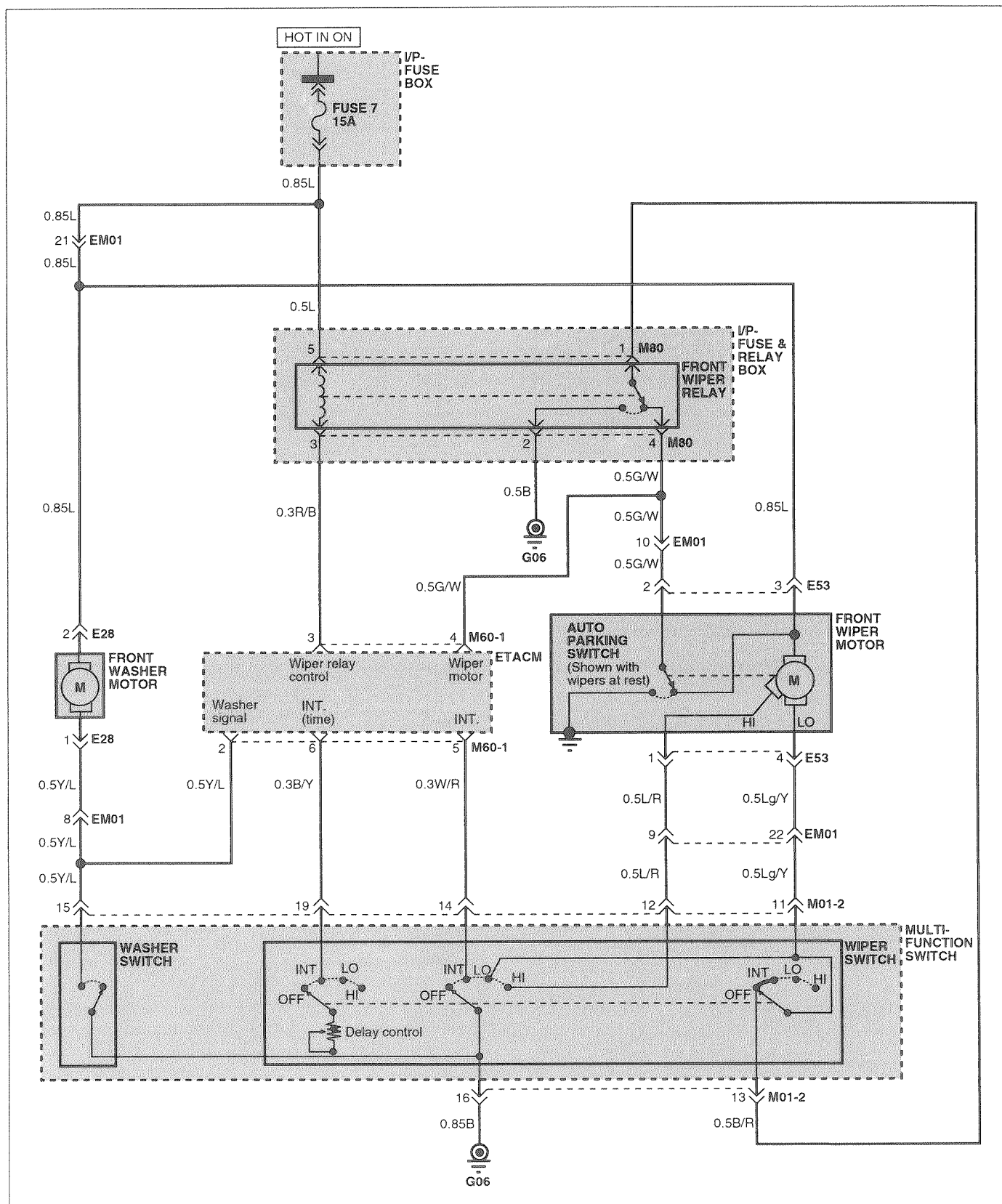
Components		Location reference-page
M04	Door warning switch	CL- 2
M10-2	Instrument cluster	CL- 2
M60-1	ETACM	CL- 4
M60-2	ETACM	CL- 4
M62	Chime bell	CL- 4
Grounds		
G06		CL-18

MEMO

FRONT WIPER & WASHER

E2XC0220

FRONT WIPER & WASHER (1)



E2XC022A

COMPONENT LOCATION INDEX

Components		Location reference-page
E28	Front washer motor	CL- 8
E53	Front wiper motor	CL- 9
M01-2	Multifunction switch	CL- 2
M60-1	ETACM	CL- 4
M80	Front wiper relay	CL- 5
Connectors		
EM01		CL-12
Grounds		
G06		CL-18

E2XC0230

Wiring Diagram for Rear Wiper and Washer System

Legend:

- 0.5R/L: 0.5R/L
- 0.5R/W: 0.5R/W
- 0.5Br: 0.5Br
- 0.5Br/W: 0.5Br/W
- 0.5W/B: 0.5W/B
- 0.5L/B: 0.5L/B
- 0.5B: 0.5B
- 0.5B/Y: 0.5B/Y

Components and Connections:

- HOT IN ON:** Power source for the system.
- FUSE 8 10A:** Protects the main power line.
- REAR WIPER MOTOR:** Controlled by the AUTO PARKING SWITCH and the REAR WIPER & WASHER SWITCH (WIPER position).
- REAR WASHER MOTOR:** Controlled by the REAR WIPER & WASHER SWITCH (WASHER position).
- REAR WIPER & WASHER SWITCH:** Controls the wiper and washer motors. Includes an illumination (ILL.) function.
- JOINT CONNECTOR:** Connects the system to the ground distribution (G06).

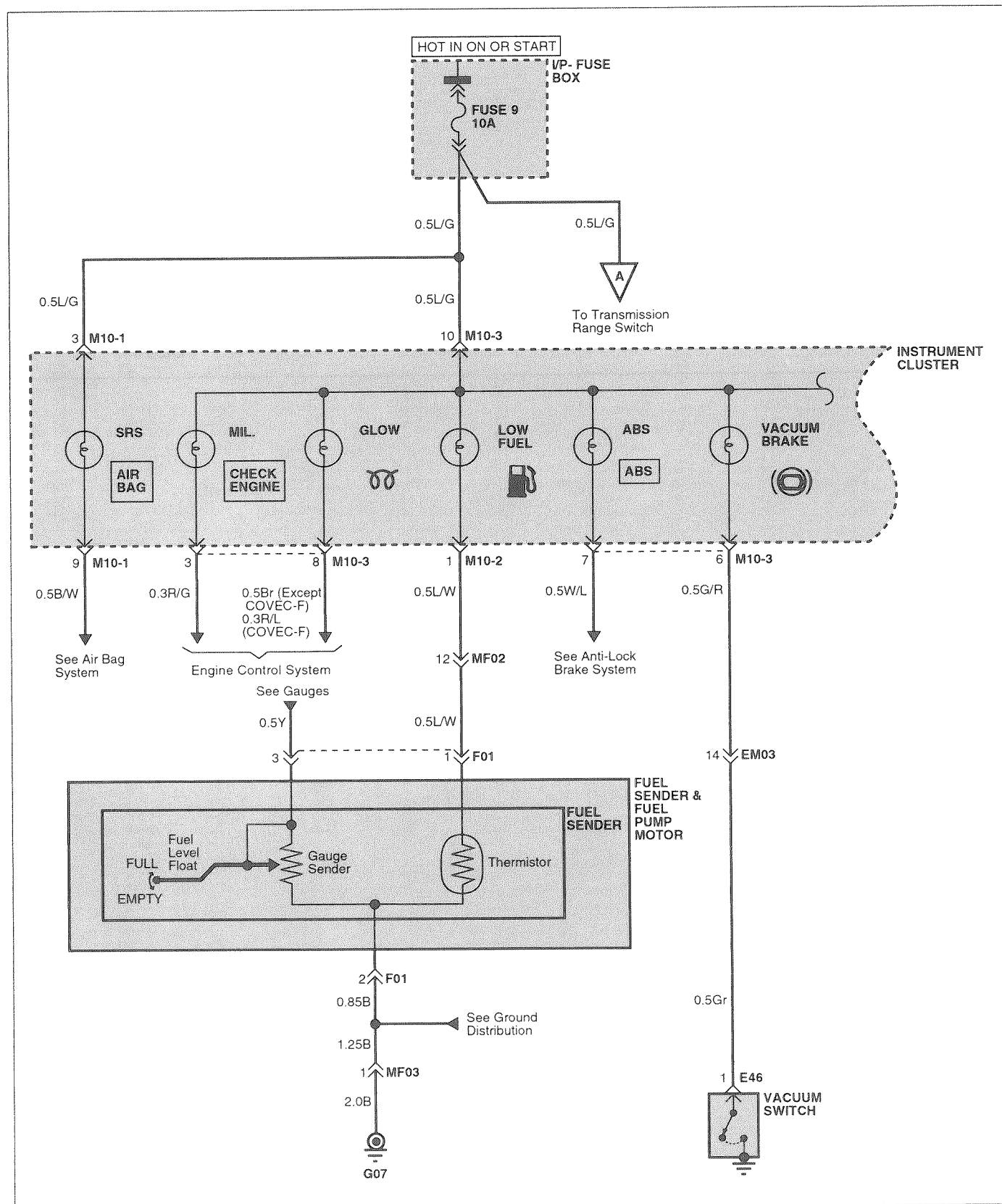
COMPONENT LOCATION INDEX

Components		Location reference-page
F08	Rear washer motor	CL-13
M19	Joint connector	CL- 2
M52	Rear wiper & washer switch	CL- 4
R14	Rear wiper motor	CL-17
Connectors		
MF01		CL- 6
FR02		CL-14
Grounds		
G06		CL-18

INDICATORS

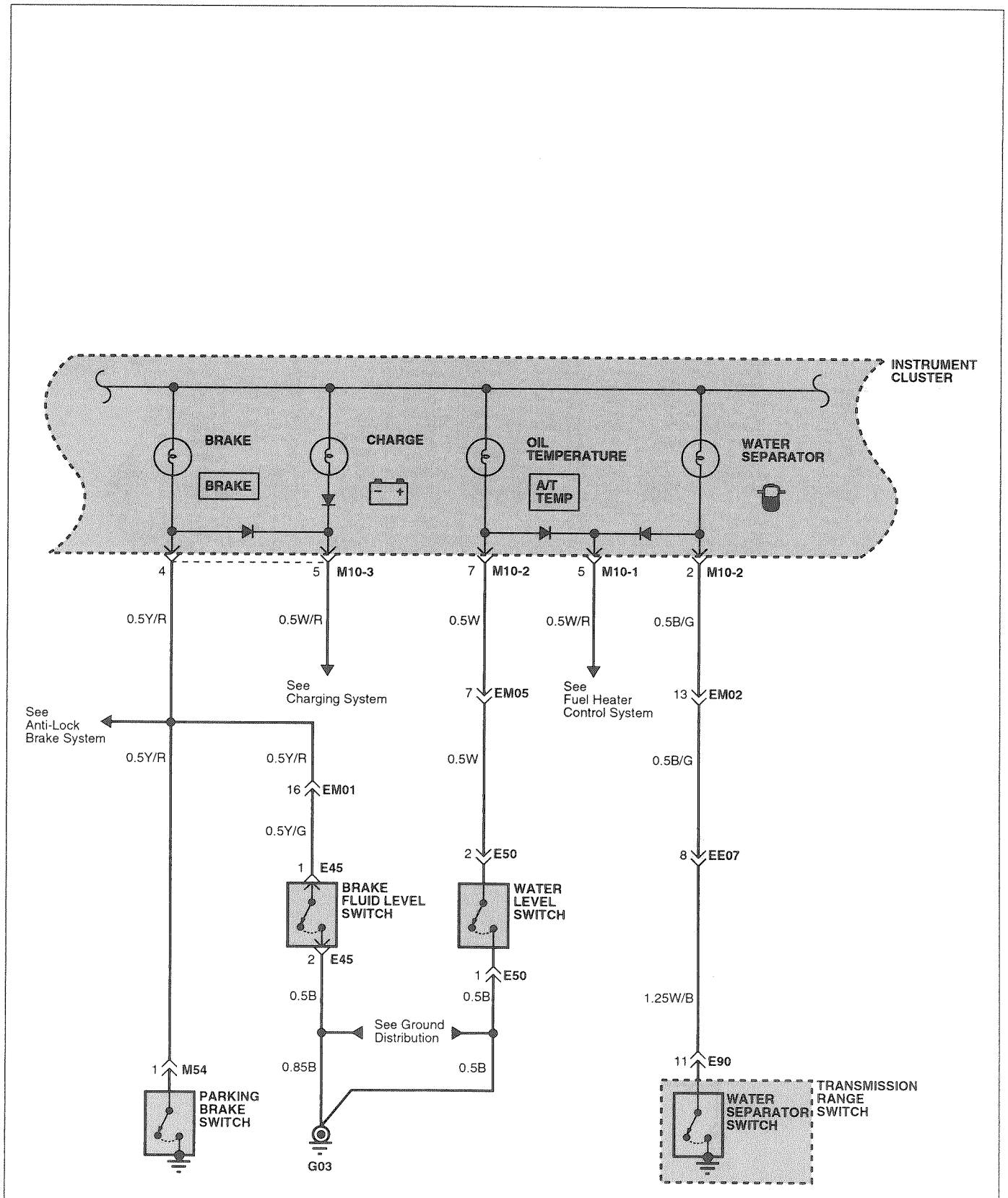
E2XC0250

INDICATORS (1)



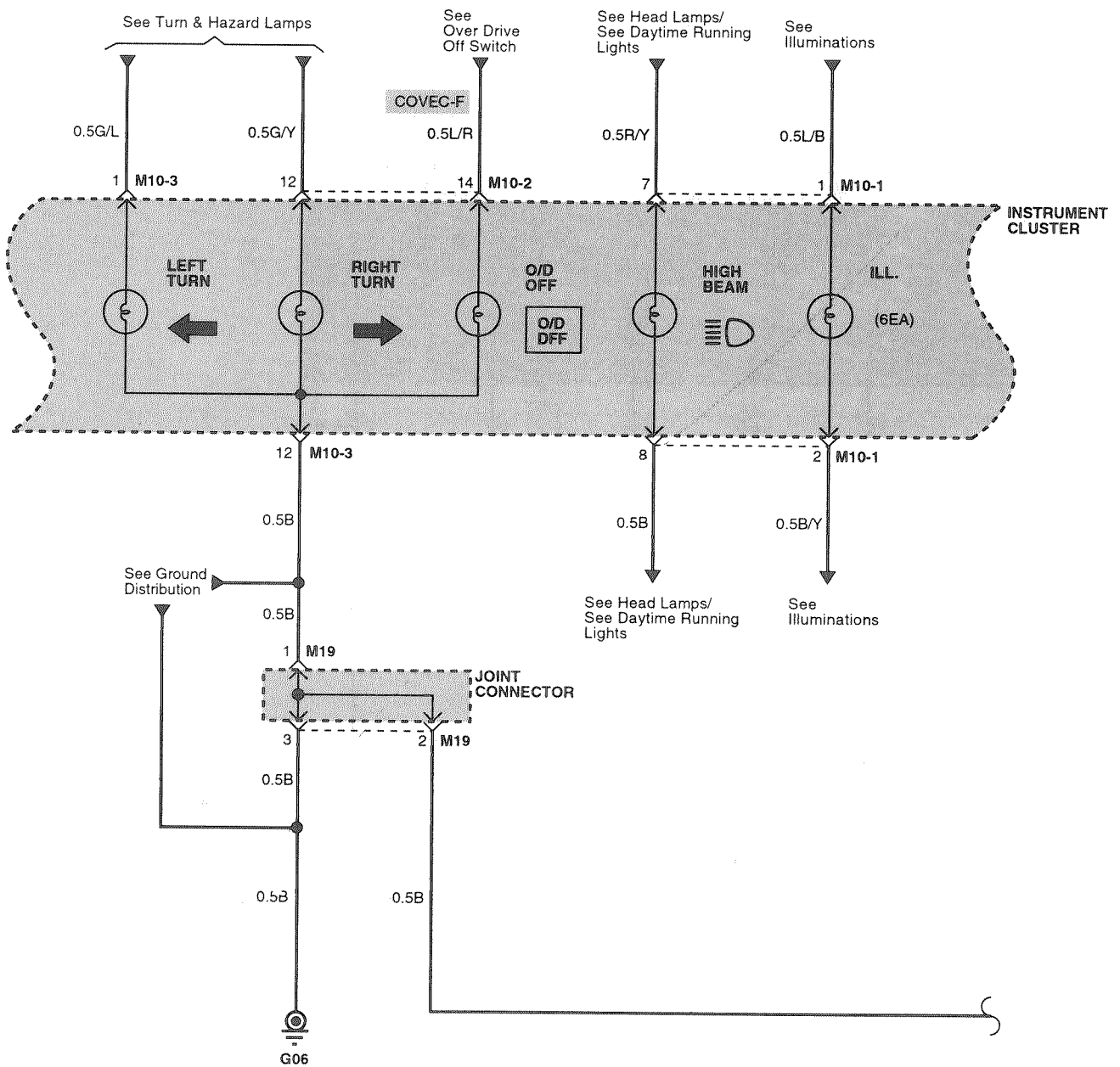
E2XC025A

INDICATORS (2)

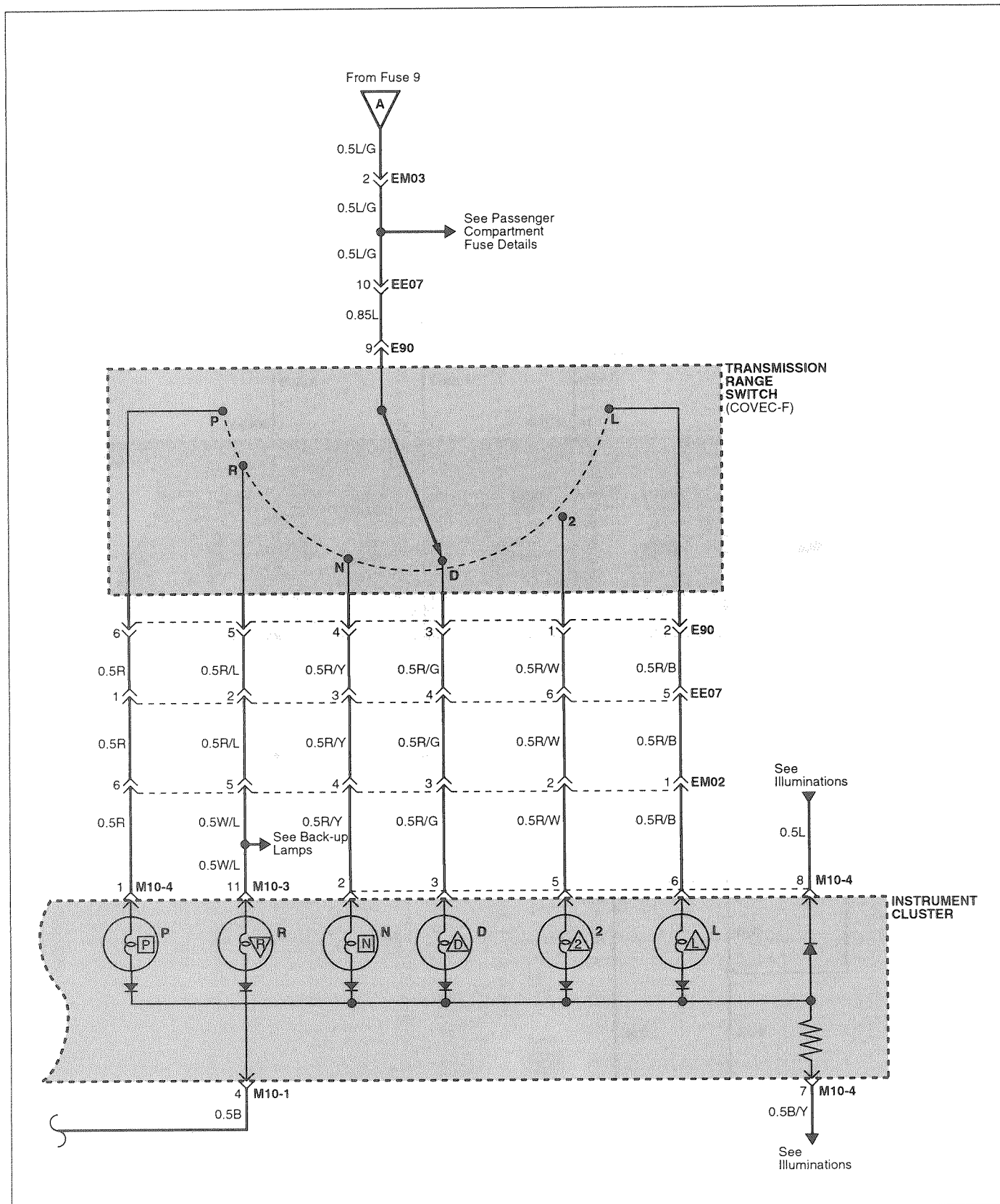


[illegible]

INDICATORS (4)



INDICATORS (5)



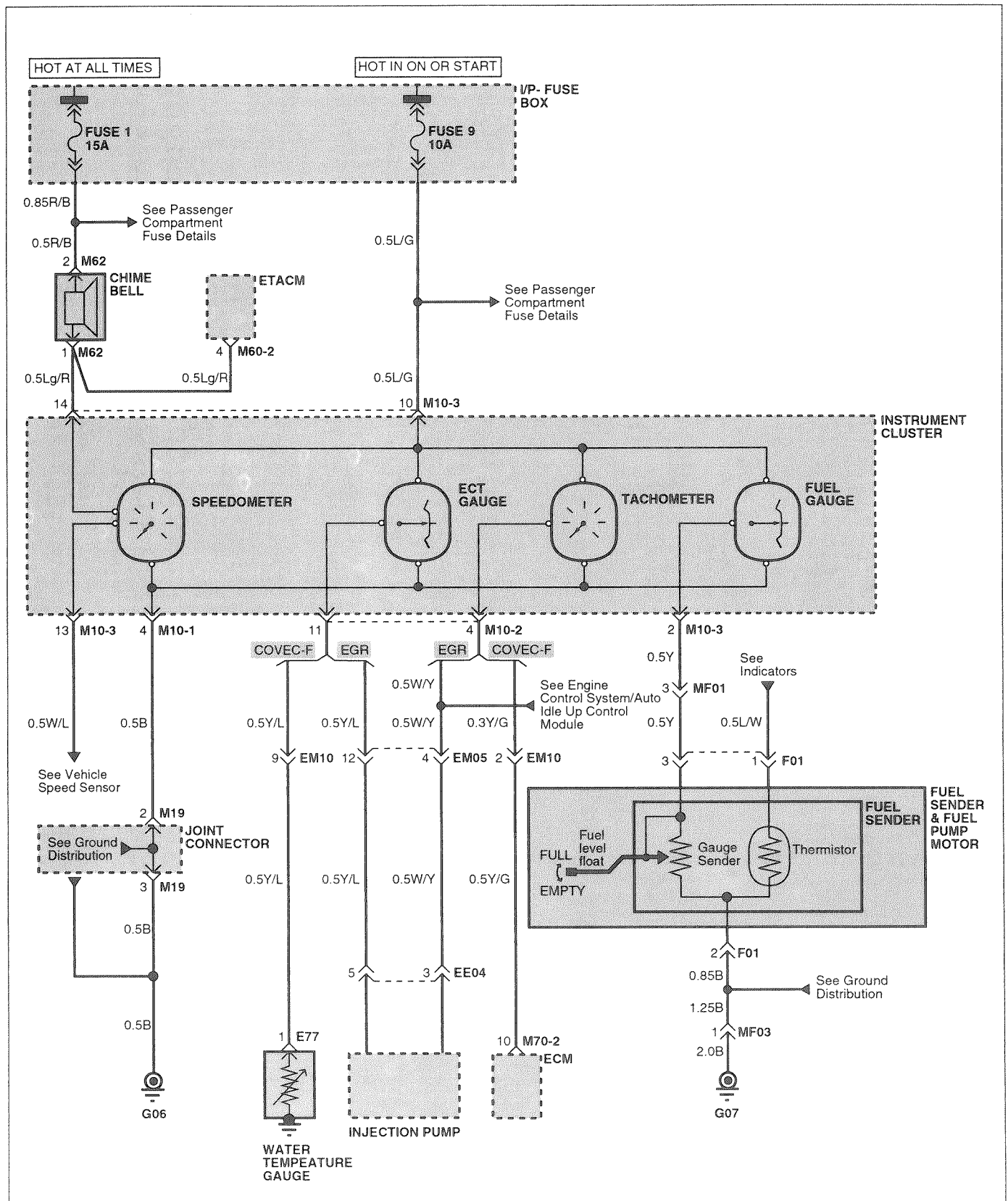
COMPONENT LOCATION INDEX

Components		Location reference-page
E45	Brake fluid level sensor	CL- 9
E46	Vacuum switch	CL- 9
E50	Water level switch	CL- 9
E72	Oil pressure switch	CL-10
E90	Transmission range switch	CL-11
E96-1	4WD switch	CL-11
E96-2	4WD switch	CL-11
F01	Fuel sender & fuel pump motor	CL-13
M10-1	Instrument cluster	CL- 2
M10-2	Instrument cluster	CL- 2
M10-3	Instrument cluster	CL- 2
M10-4	Instrument cluster	CL- 2
M54	Parking brake switch	CL- 4
Connectors		
EE06		CL-12
EE07		CL-12
EM01		CL-12
EM02		CL-12
EM03		CL-12
MF03		CL- 6
Grounds		
G07		CL-18

GAUGES

E2XC0260

GAUGES (1)



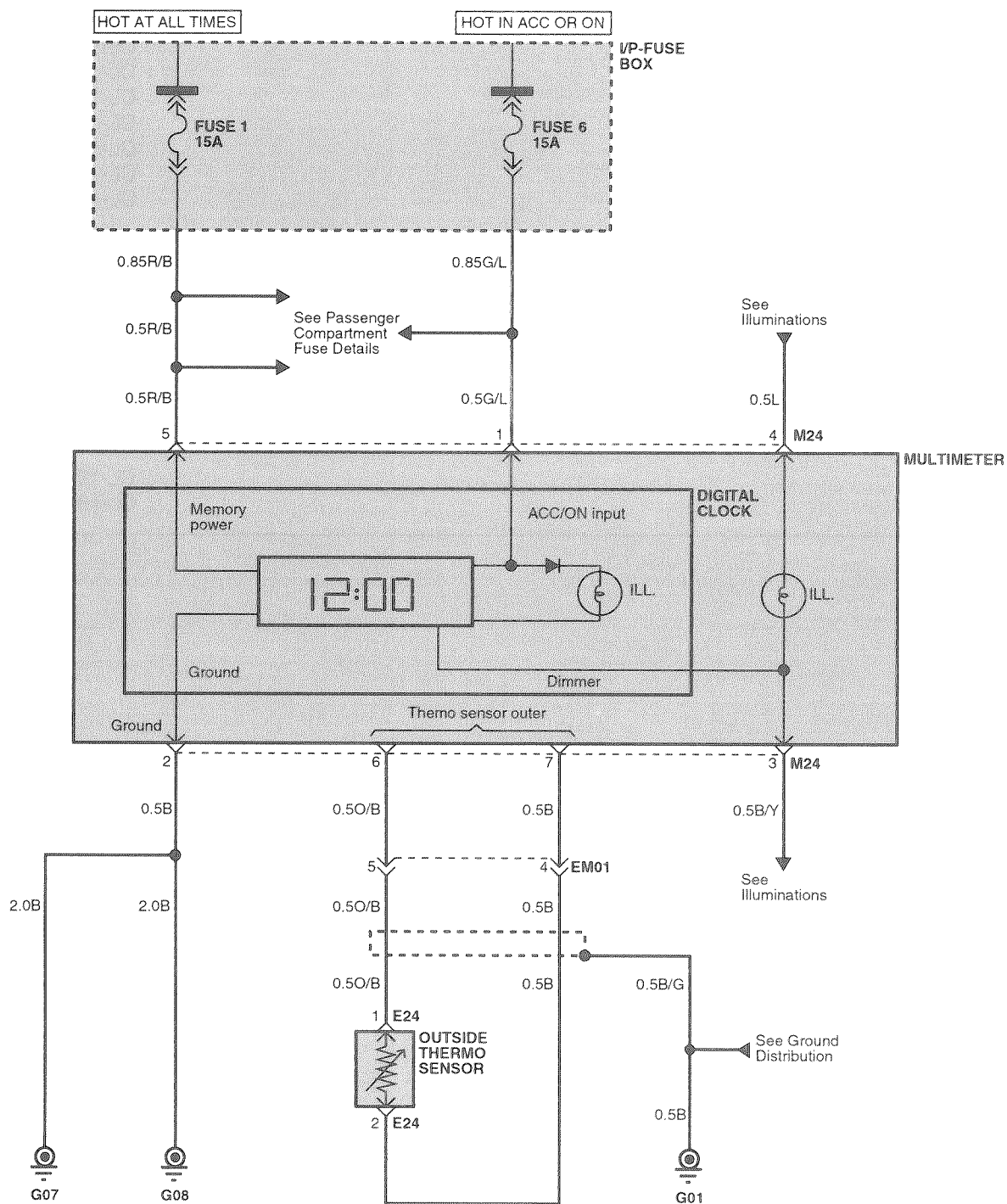
COMPONENT LOCATION INDEX

Components		Location reference-page
E77	Water temperature gauge	CL-10
F01	Fuel sender & fuel pump motor	CL-13
M10-1	Instrument cluster	CL- 2
M10-2	Instrument cluster	CL- 2
M10-3	Instrument cluster	CL- 2
M10-4	Instrument cluster	CL- 2
M19	Joint connector	CL- 2
M60-2	ETACM	CL- 4
M62	Chime bell	CL- 4
Connectors		
EE04		CL-12
EM05		CL-12
MF01		CL- 6
MF03		CL- 6
Grounds		
G06		CL-18
G07		CL-18

MULTIMETER

E2XC0300

MULTIMETER (1)



COMPONENT LOCATION INDEX

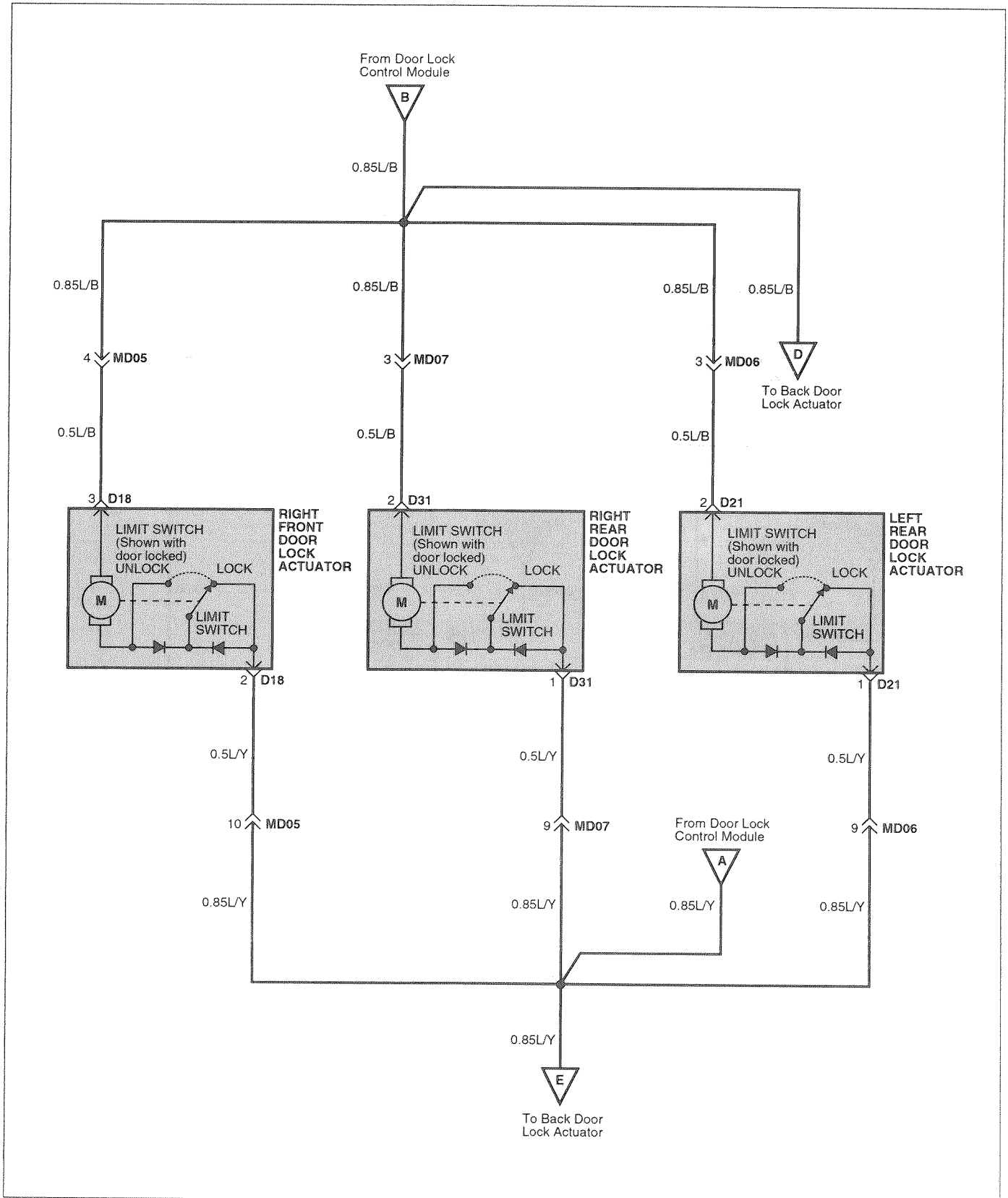
Components		Location reference-page
E24	Outside thermo sensor	CL-7
M24	Multimeter	CL-2
Connectors		
EM01		CL-12
Grounds		
G07		CL-18
G08		CL-18

E2XC0270

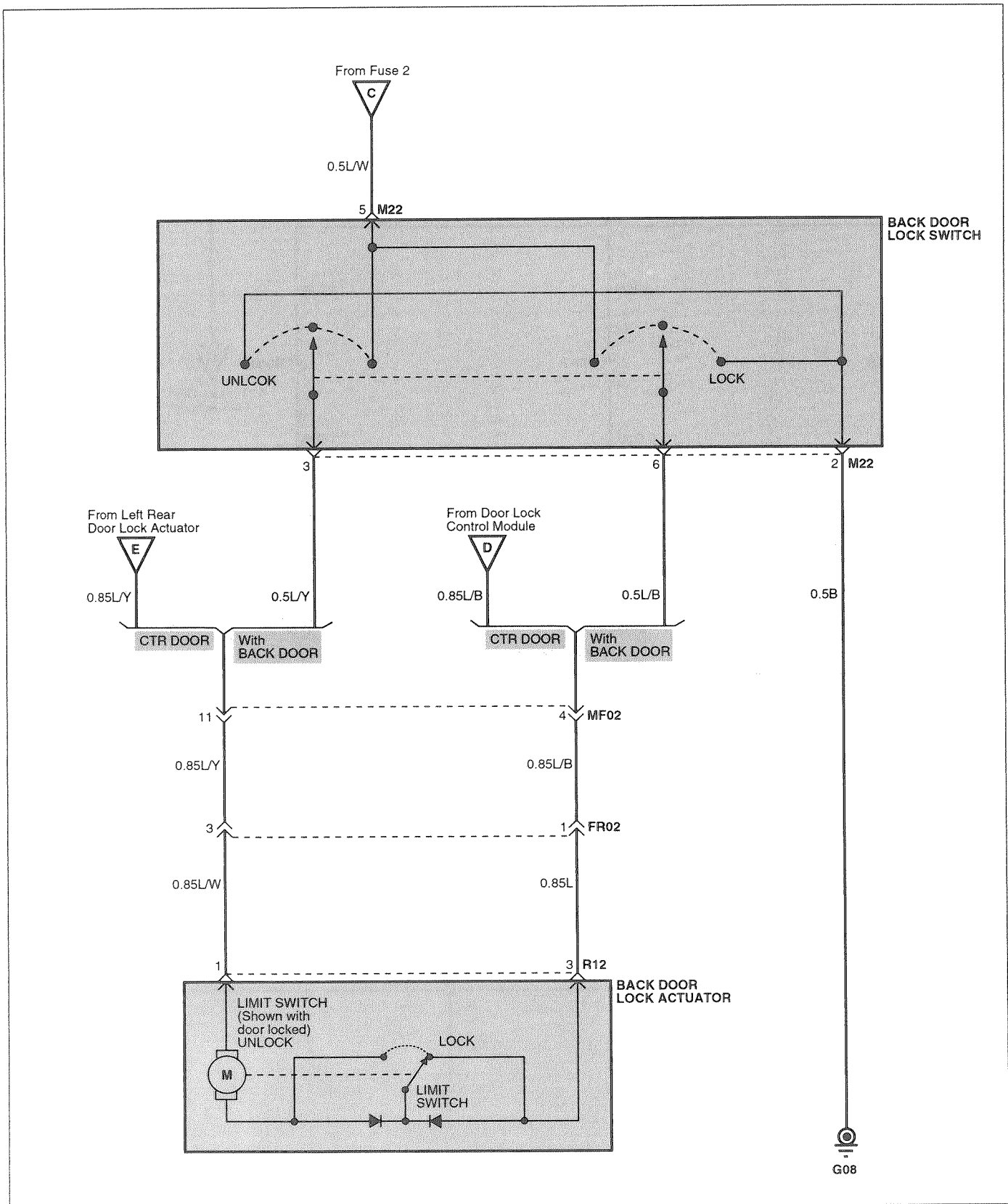
Wiring Diagram Details:

- I/P-FUSE BOX:** Contains FUSE 2 (15A), which is "HOT AT ALL TIMES".
- DOOR LOCK CONTROL MODULE:**
 - Terminal 2 (M51) is connected to the I/P-FUSE BOX via a 0.5L/W wire.
 - Terminal 9 is connected to the I/P-FUSE BOX via a 0.85L/W wire.
 - Terminal 7 is connected to the I/P-FUSE BOX via a 0.85L/W wire.
 - Terminal 1 (M51) is connected to the I/P-FUSE BOX via a 0.85R/L wire.
 - Terminal 5 is connected to the I/P-FUSE BOX via a 0.85L/B wire.
 - Terminal 8 is connected to the I/P-FUSE BOX via a 0.3W/B wire.
 - Terminal 6 is connected to the I/P-FUSE BOX via a 0.3G/Y wire.
 - Terminal 4 is connected to the I/P-FUSE BOX via a 0.85B wire.
 - Terminal 3 is connected to the I/P-FUSE BOX via a 0.85L/Y wire.
- ETACM (Electronic Transceiver/Actuator Control Module):**
 - Door lock relay control: Connected to terminal 1 of the DOOR LOCK CONTROL MODULE via a 0.3G/Y wire.
 - Door unlock relay control: Connected to terminal 8 of the DOOR LOCK CONTROL MODULE via a 0.3W/B wire.
 - Door unlock switch: Connected to terminal 10 of the ETACM via a 0.5Lg/W wire.
 - Terminal 15 of the ETACM is connected to terminal 15 of the ED01 via a 0.5Lg/W wire.
 - Terminal 3 of the ED01 is connected to terminal 3 of the D08 via a 0.5Lg/Y wire.
 - Terminal 1 of the D08 is connected to terminal 1 of the LEFT FRONT DOOR LOCK ACTUATOR via a 0.5Lg/Y wire.
- LEFT FRONT DOOR LOCK ACTUATOR:**
 - Terminal 1 (D08) is connected to the ETACM via a 0.5Lg/Y wire.
 - Terminal 2 (D08) is connected to the ETACM via a 0.3B wire.
 - Terminal 2.0B is connected to the ETACM via a 2.0B wire.
 - Terminal 1 (ED01) is connected to the ETACM via a 1 wire.
 - Terminal 2.0B is connected to the ETACM via a 2.0B wire.
 - Terminal 1 (G01) is connected to the ETACM via a 1 wire.
- Other Components:**
 - POWER DOOR LOCK RELAY:** Connected to terminal 9 of the DOOR LOCK CONTROL MODULE via a 0.85L/W wire.
 - POWER DOOR UNLOCK RELAY:** Connected to terminal 7 of the DOOR LOCK CONTROL MODULE via a 0.85L/W wire.
 - To Right Front Door Lock Actuator:** Connected to terminal 4 of the DOOR LOCK CONTROL MODULE via a 0.85B wire.
 - To Right Front Door Lock Actuator:** Connected to terminal 5 of the DOOR LOCK CONTROL MODULE via a 0.85L/B wire.
 - To Back Door Lock Switch:** Connected to terminal 2 of the DOOR LOCK CONTROL MODULE via a 0.5L/W wire.

POWER DOOR LOCKS (2)



POWER DOOR LOCKS (3)



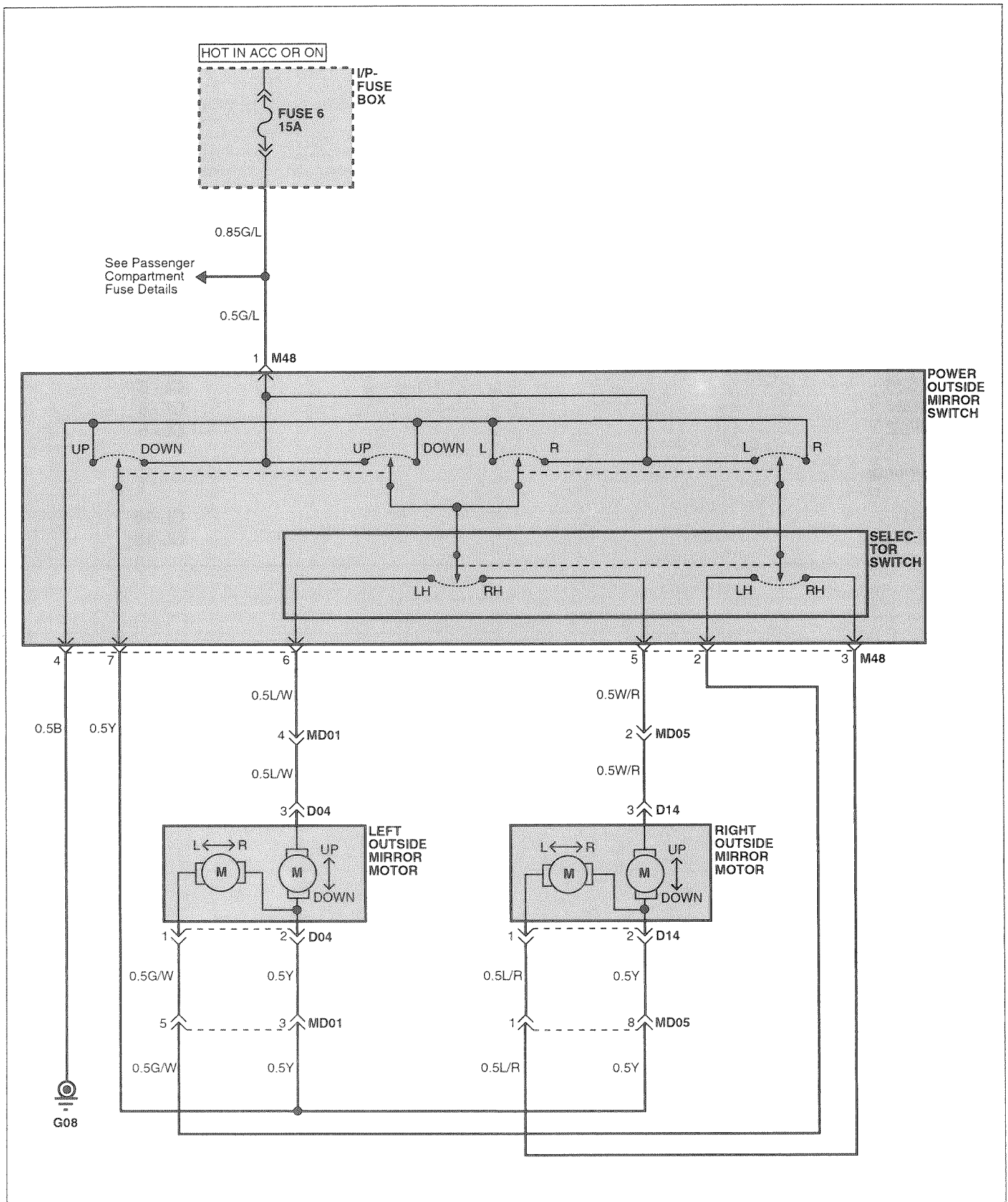
COMPONENT LOCATION INDEX

Components		Location reference-page
D08	Left front door lock actuator	CL-16
D18	Right front door lock actuator	CL-16
D21	Left rear door lock actuator	CL-16
D31	Right rear door lock actuator	CL-16
M51	Door lock control module	CL- 4
M60-1	ETACM	CL- 4
R12	Back door lock actuator	CL-17
Connectors		
ED01		CL-11
EM01		CL-12
FR02		CL-14
MD05		CL- 6
MD06		CL- 6
MD07		CL- 6
MF02		CL- 6
Grounds		
G01		CL-18
G08		CL-18

POWER OUTSIDE MIRRORS

E2XC0280

POWER OUTSIDE MIRRORS (1)



E2XC028A

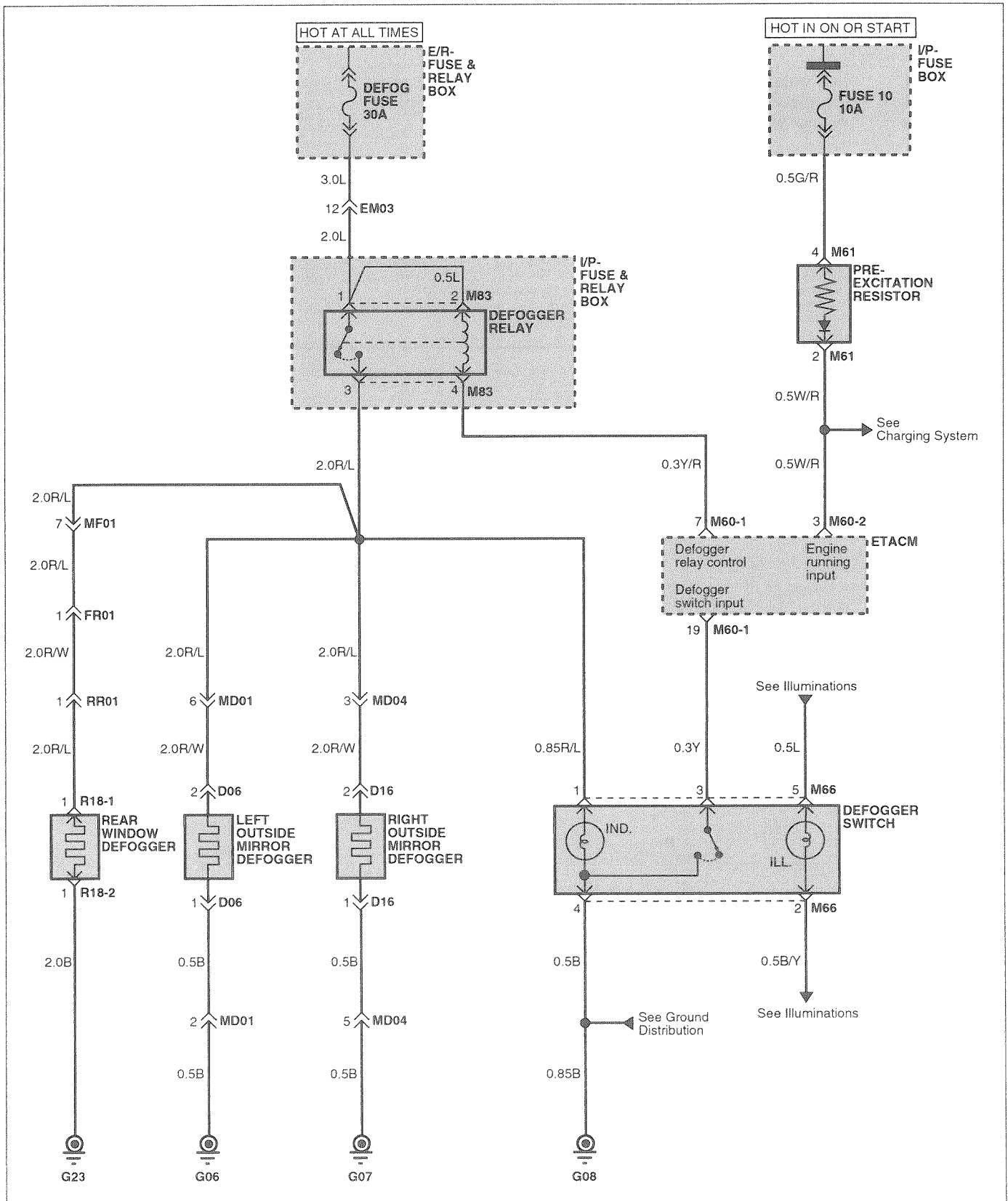
COMPONENT LOCATION INDEX

Components		Location reference-page
D04	Left outside mirror motor	CL-16
D14	Right outside mirror motor	CL-16
M48	Power outside mirror switch	CL- 4
Connectors		
MD01		CL- 6
MD05		CL- 6
Grounds		
G08		CL-18

REAR WINDOW & OUTSIDE MIRROR DEFOGGER SYSTEM

E2XC0290

REAR WINDOW & OUTSIDE MIRROR DEFOGGER SYSTEM (1)



E2XC029A

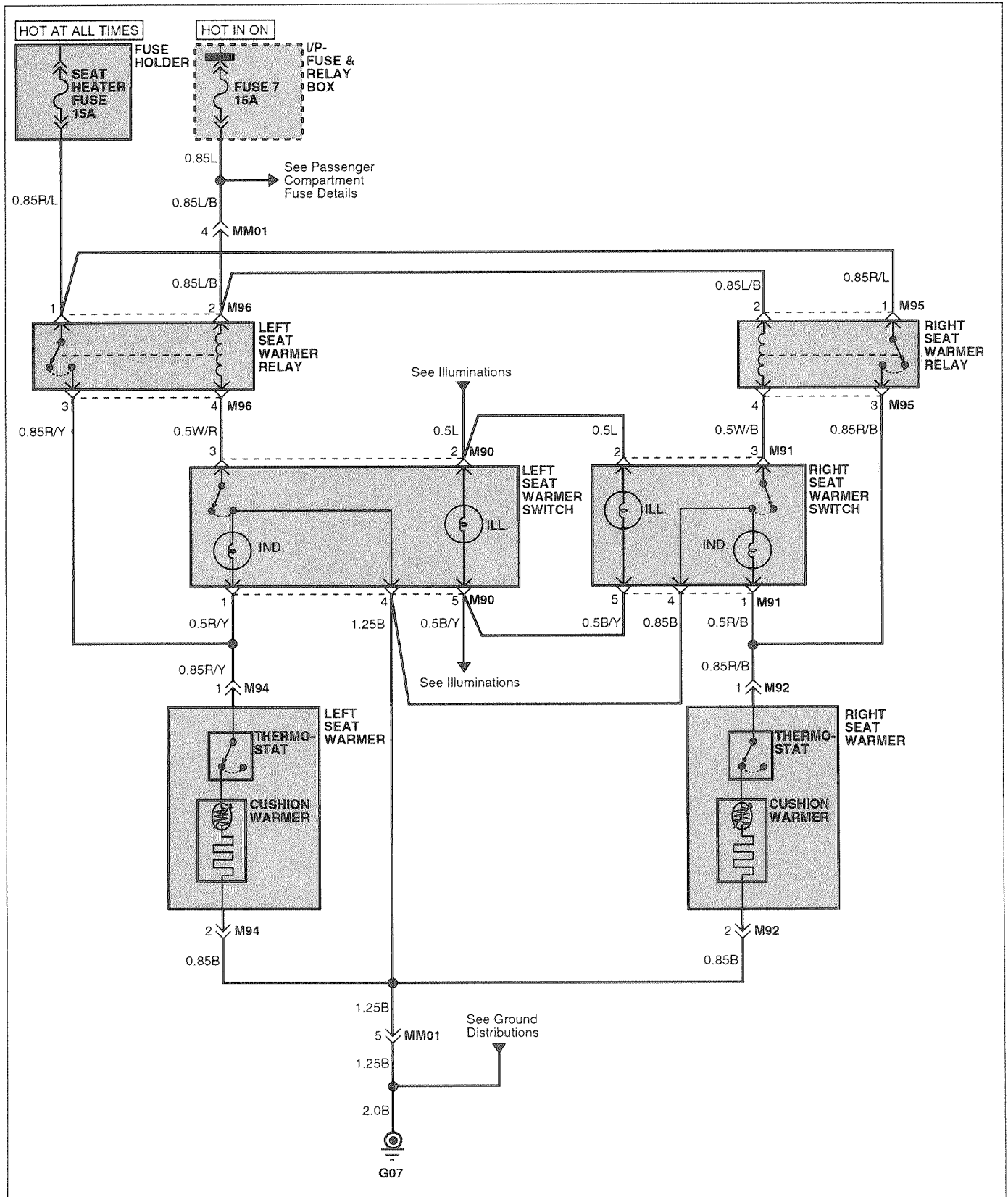
COMPONENT LOCATION INDEX

Components		Location reference-page
D06	Left outside mirror defogger	CL-16
D16	Right outside mirror defogger	CL-16
M60-1	ETACM	CL- 4
M60-2	ETACM	CL- 4
M61	Pre-excitation resistor	CL- 4
M66	Defogger switch	CL- 4
M83	Defogger relay	CL- 5
R18-1	Rear window defogger (+)	CL-17
R18-2	Rear window defogger (-)	CL-17
Connectors		
FR01		CL-14
MD01		CL- 6
MD04		CL- 6
MF01		CL- 6
RR01		CL-17
Grounds		
G06		CL-18
G07		CL-18
G08		CL-18
G23		CL-19

SEAT WARMER

E2XC0310

SEAT WARMER (1)



E2XC031A

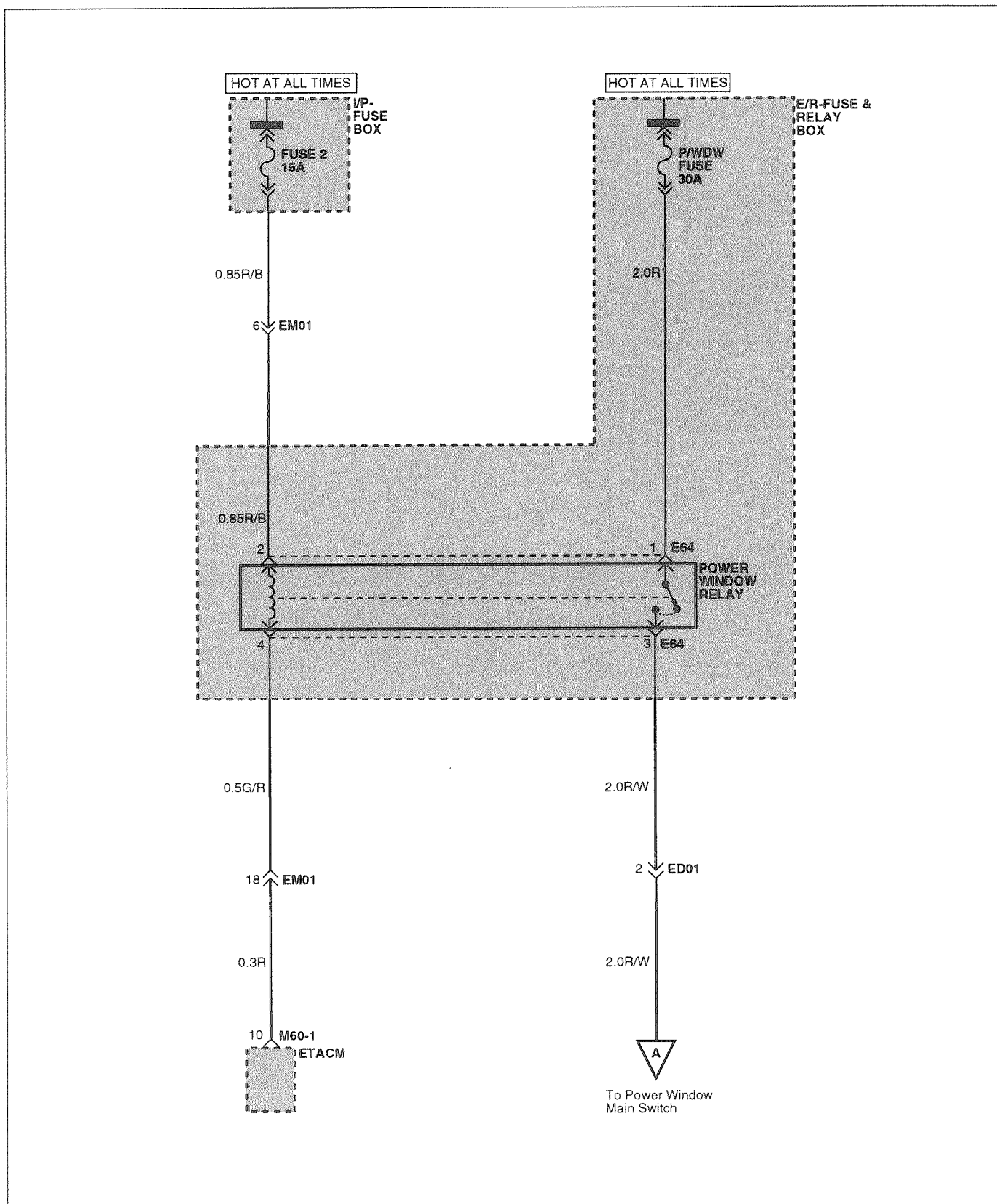
COMPONENT LOCATION INDEX

Grounds	Location reference-page
G07	CL-18

POWER WINDOWS

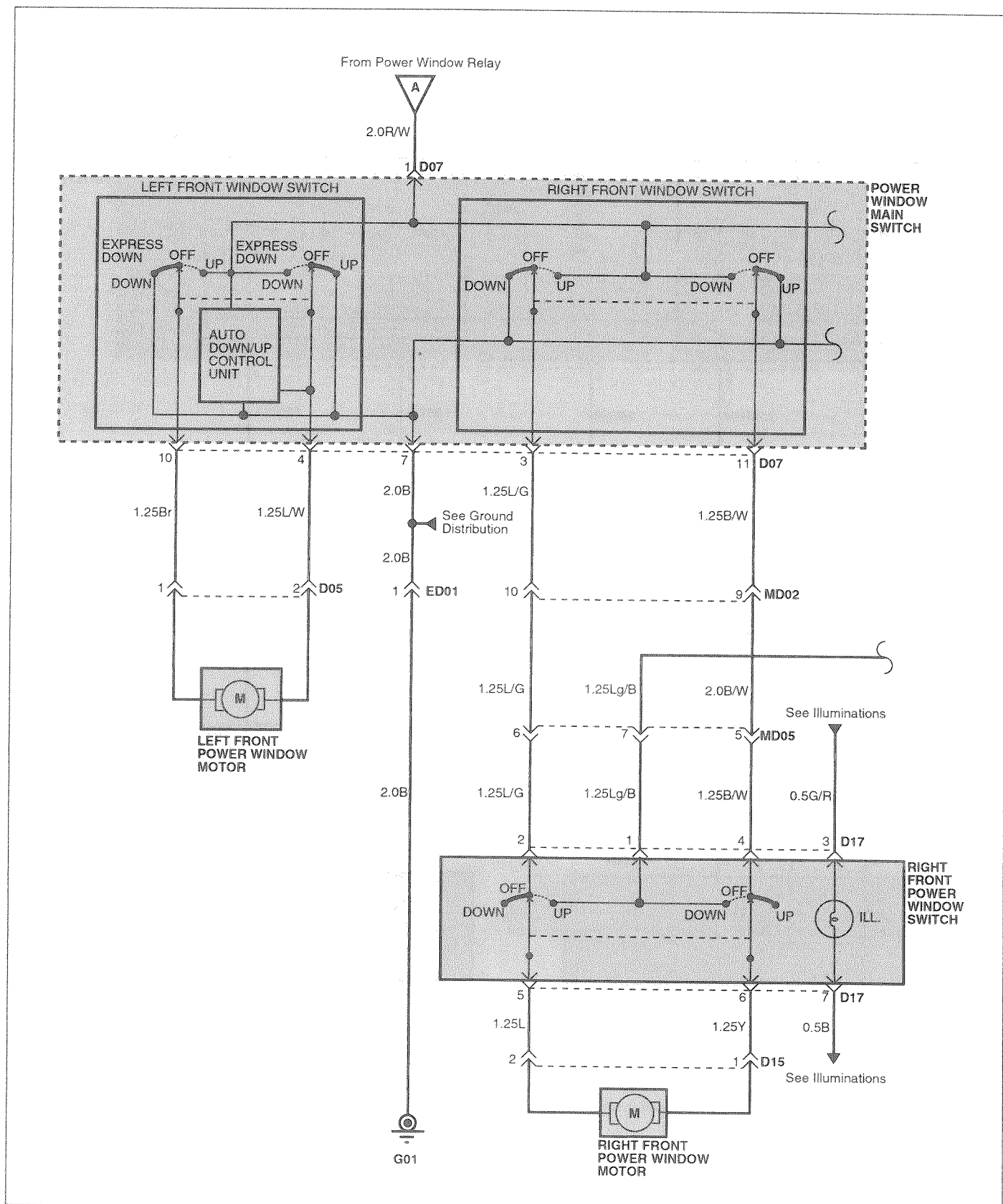
E2XC0330

POWER WINDOWS (1)

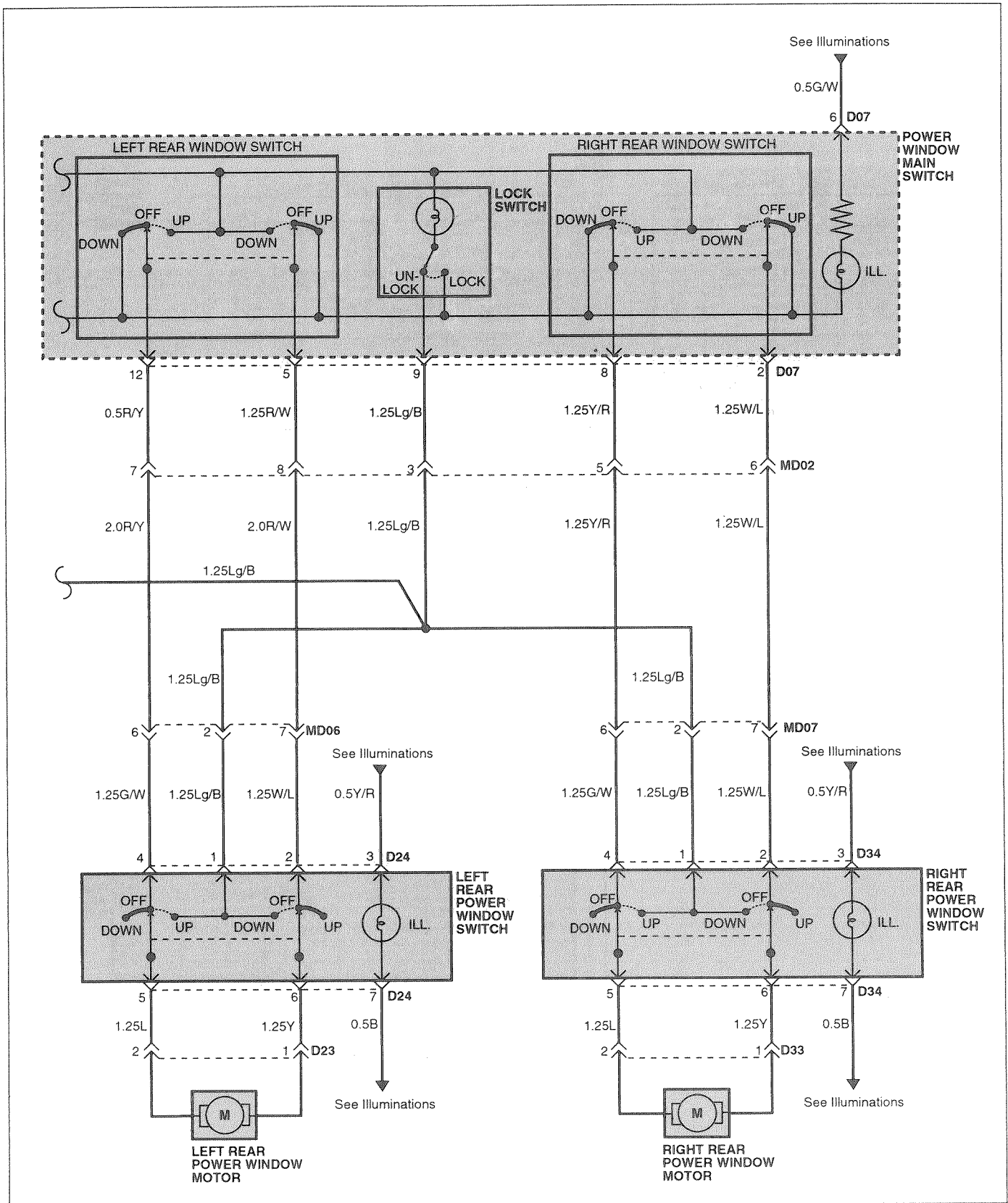


E2XC033A

POWER WINDOWS (2)



POWER WINDOWS (3)



COMPONENT LOCATION INDEX

Components		Location reference-page
D05	Left front power window motor	CL-16
D07	Power window main switch	CL-16
D15	Right front power window motor	CL-16
D17	Right front power window switch	CL-16
D23	Left rear power window motor	CL-16
D33	Right rear power window motor	CL-16
D34	Right rear power window switch	CL-16
E64	Power window relay	CL- 9
M60-1	ETACM	CL- 4
Connectors		
ED01		CL-11
EM01		CL-12
MD02		CL- 6
MD05		CL- 6
MD06		CL- 6
MD07		CL- 6
Grounds		
G01		CL-18

E2XC0350

Wiring Diagram for 1994-1995 Ford Taurus Audio System

Legend:

- Memory power
- Power antenna ON/OFF Signal
- ACC/ON input
- ILL(-)
- ILL(+)
- Left speaker
- Right speaker
- Left door speaker
- Right door speaker

Key Components and Connections:

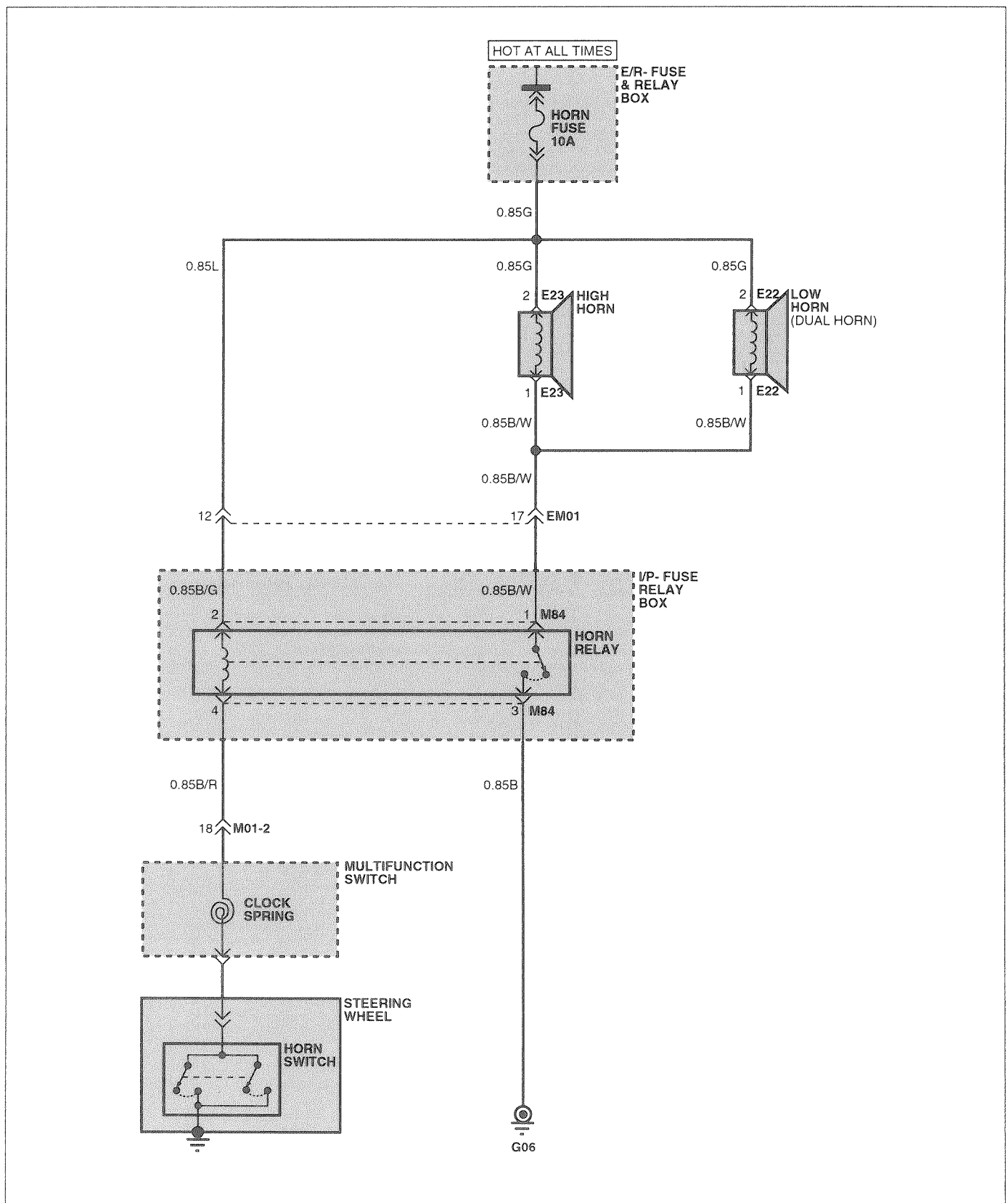
- FUSE BOX:** FUSE 1 (15A) and FUSE 6 (15A). Wires: 0.85R/B, 0.85G/L.
- Power Antenna:** Includes ANTENNA RELAY, UP, DOWN, and M25. Wires: 0.85R/B, 0.85G/L.
- Speakers:**
 - Left Speaker:** F22, 0.5Lg/B (TWIST), 0.5R/L (TWIST), 0.5B/L, 0.5Br, 0.5R, 0.5R/B, 0.5B/Y, 0.5L/B, 0.5B/L, 0.5Br, 0.5R, 0.5R/B.
 - Right Speaker:** F24, 0.5Lg/B (TWIST), 0.5R/L (TWIST), 0.5B/L, 0.5Br, 0.5R, 0.5R/B, 0.5B/Y, 0.5L/B, 0.5B/L, 0.5Br, 0.5R, 0.5R/B.
 - Left Front Door Speaker:** D02, 0.5B/Y (TWIST), 0.5B/W (TWIST), 0.5B/Y (TWIST), 0.5B/W (TWIST).
 - Left Rear Door Speaker:** D22, 0.5B/Y (TWIST), 0.5B/W (TWIST), 0.5B/Y (TWIST), 0.5B/W (TWIST).
 - Right Front Door Speaker:** D12, 0.5W/L (TWIST), 0.5B/L (TWIST), 0.5W/L (TWIST), 0.5B/L (TWIST).
 - Right Rear Door Speaker:** D32, 0.5W/L (TWIST), 0.5B/L (TWIST), 0.5W/L (TWIST), 0.5B/L (TWIST).
- Other Components:** M40, FF01, FF02, MF02, MD02, MD06, MD04, MD07, G08.

COMPONENT LOCATION INDEX

Components		Location reference-page
D02	Left front door speaker	CL-16
D12	Right front door speaker	CL-16
D22	Left rear door speaker	CL-16
D32	Right rear door speaker	CL-16
F22	Left speaker	CL-14
F24	Right speaker	CL-14
M25	Power antenna	CL- 2
M40	Audio	CL- 3
Connectors		
FF01		CL-14
FF02		CL-14
MD02		CL- 6
MD04		CL- 6
MD06		CL- 6
MD07		CL- 6
MF02		CL- 6
Grounds		
G08		CL-18

HORNS E2XC0360

HORNS (1)



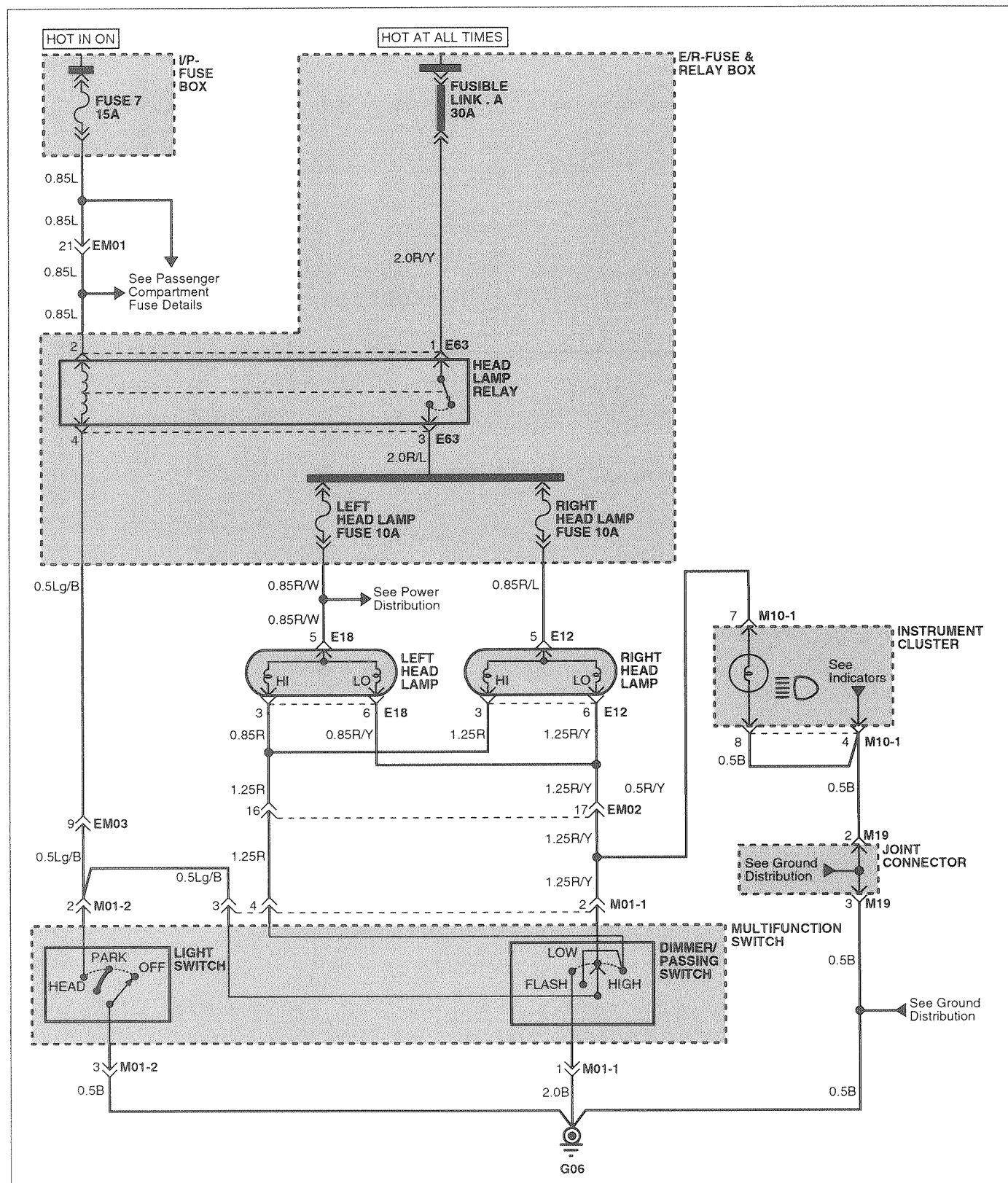
COMPONENT LOCATION INDEX

Components		Location reference-page
E22	Low horn	CL- 7
E23	High horn	CL- 7
M01-2	Multifunction switch	CL- 2
M84	Horn relay	CL- 5
Connectors		
EM01		CL-12
Grounds		
G06		CL-18

HEAD LAMPS

E2XC0370

HEAD LAMPS (1)



E2XC037A

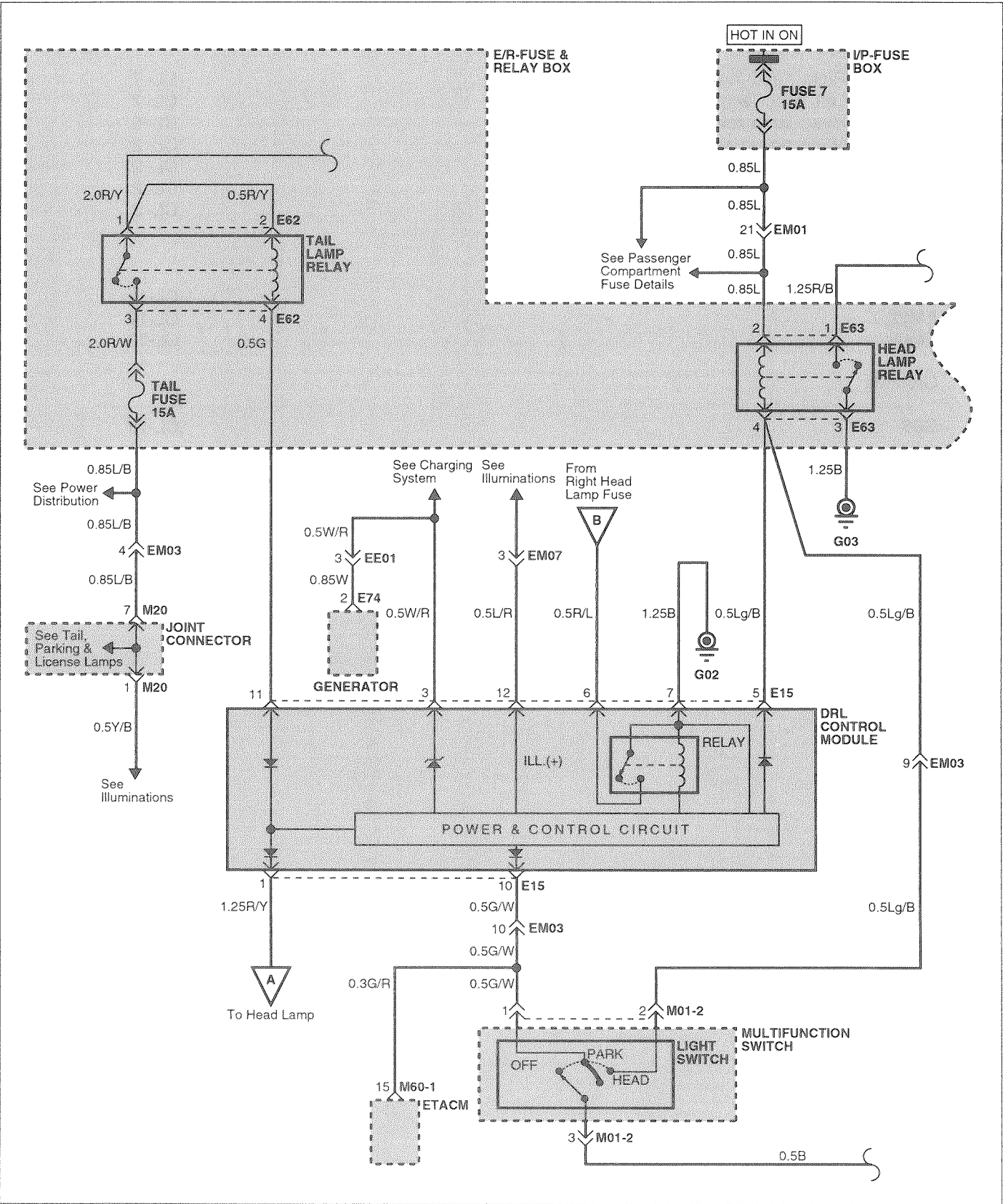
COMPONENT LOCATION INDEX

Components		Location reference-page
E12	Right head lamp	CL- 7
E18	Left head lamp	CL- 7
E63	Head lamp relay	CL- 9
M01-1	Multifunction switch	CL- 2
M10-1	Instrument cluster	CL- 2
M10-2	Instrument cluster	CL- 2
M19	Joint connector	CL- 2
Connectors		
EM01		CL-12
EM02		CL-12
EM03		CL-12
Grounds		
G06		CL-18

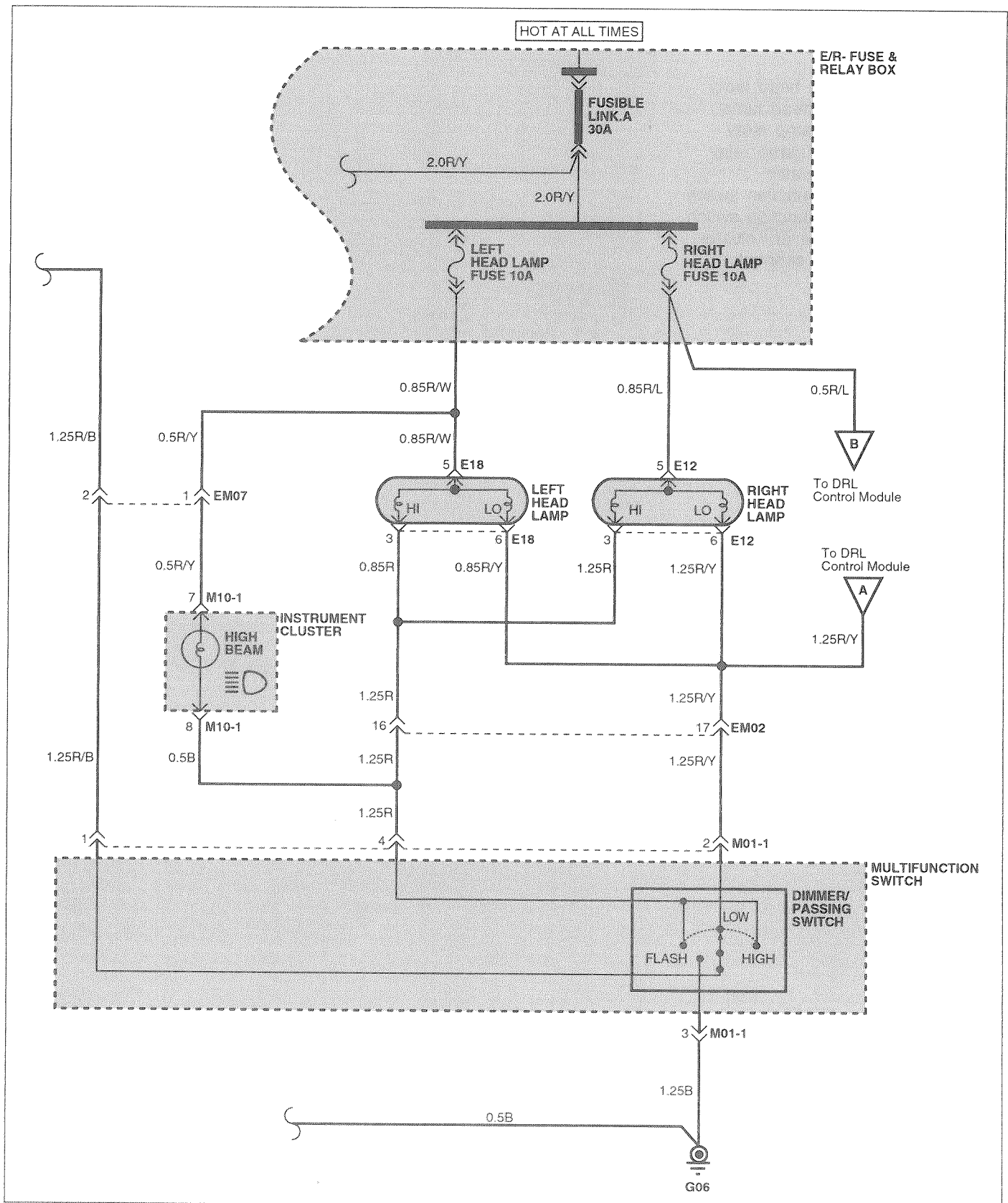
DAYTIME RUNNING LIGHTS

E2XC0380

DAYTIME RUNNING LIGHTS (1)



DAYTIME RUNNING LIGHTS (2)



E2XC038B

COMPONENT LOCATION INDEX

Components		Location reference-page
E12	Right head lamp	CL- 7
E18	Left head lamp	CL- 7
E62	Tail lamp relay	CL- 9
E63	Head lamp relay	CL- 9
E74	Generator	CL-10
M01-1	Multifunction switch	CL- 2
M01-2	Multifunction switch	CL- 2
M10-1	Instrument cluster	CL- 2
M20	Joint connector	CL- 2
Connectors		
EE01		CL-11
EM01		CL-12
EM02		CL-11
EM03		CL-11
EM07		CL-11
Grounds		
G02		CL-18
G06		CL-18

MEMO

E2XC0400

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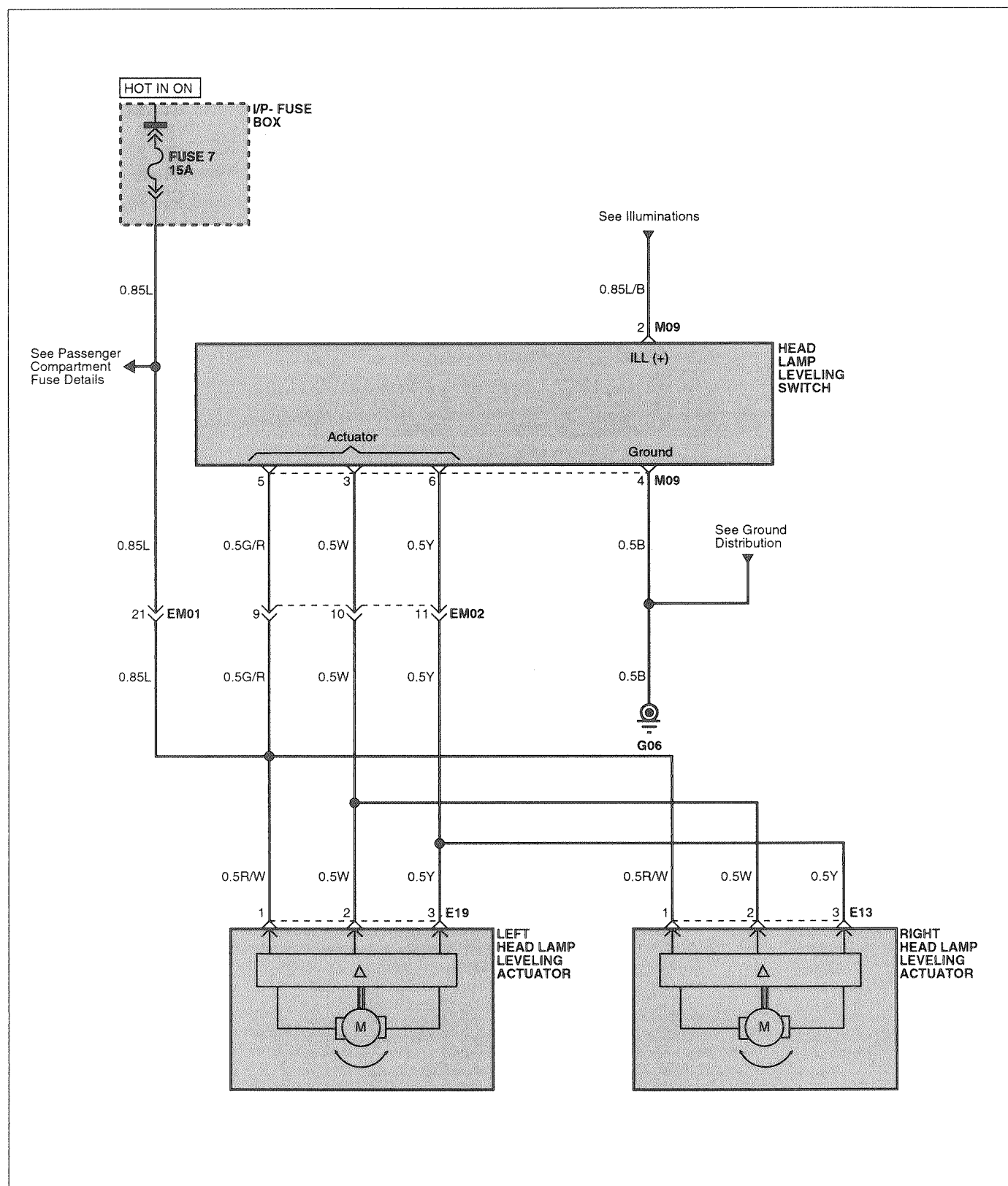
COMPONENT LOCATION INDEX

Components		Location reference-page
E29	Head lamp washer motor	CL- 8
E33	Head lamp washer relay	CL- 8
E62	Tail lamp relay	CL- 9
M01-2	Multifunction switch	CL- 2
M19	Joint connector	CL- 2
M31	Head lamp washer switch	CL- 3
Connectors		
EM01		CL-12
EM02		CL-12
EM03		CL-12
Grounds		
G01		CL-18
G06		CL-18

HEAD LAMP LEVELING DEVICE

E2XC0410

HEAD LAMP LEVELING DEVICE (1)



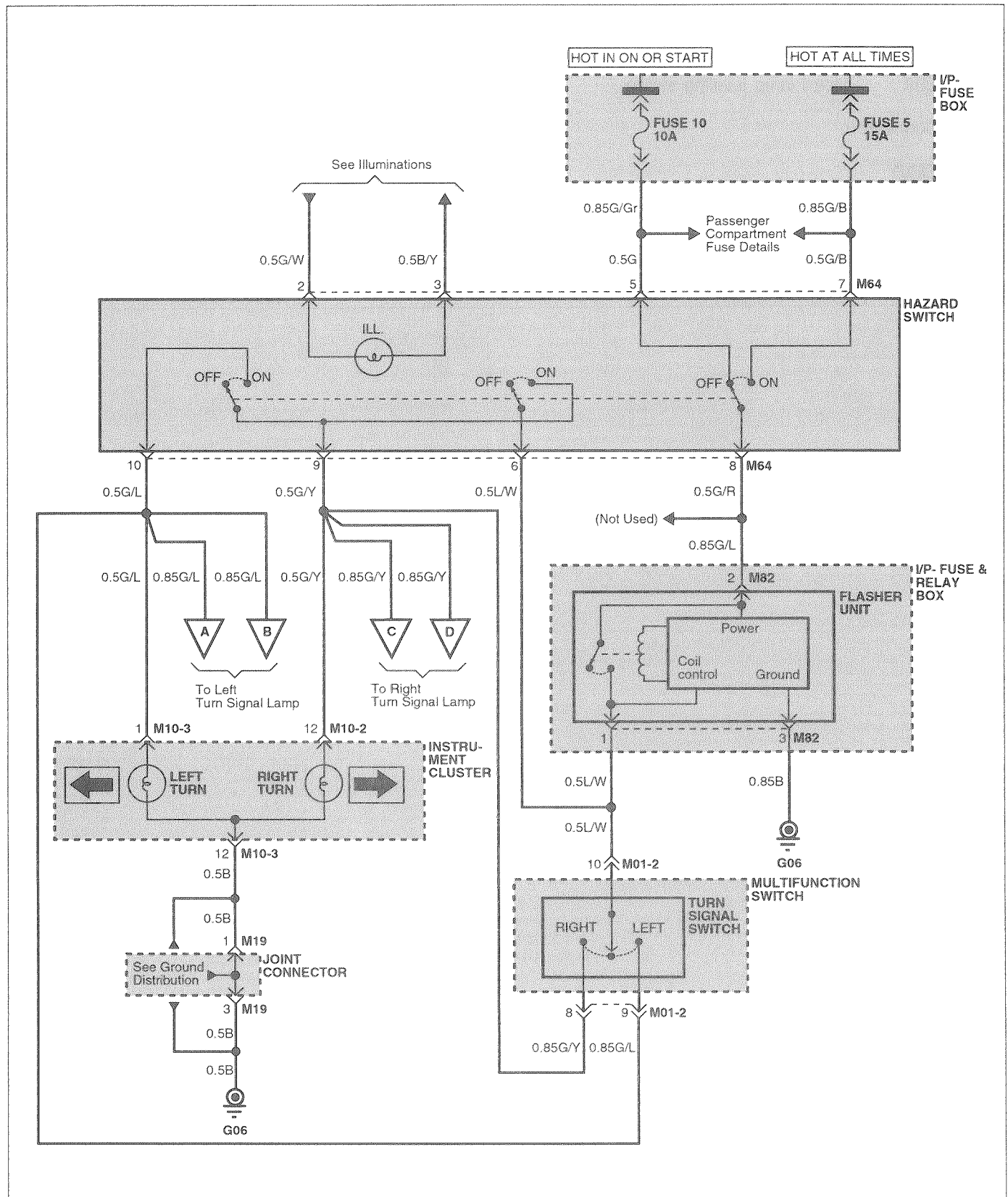
COMPONENT LOCATION INDEX

Components		Location reference-page
E09	Head lamp leveling switch	CL- 2
Connectors		
EM01		CL-12
EM02		CL-12
Grounds		
G06		CL-18

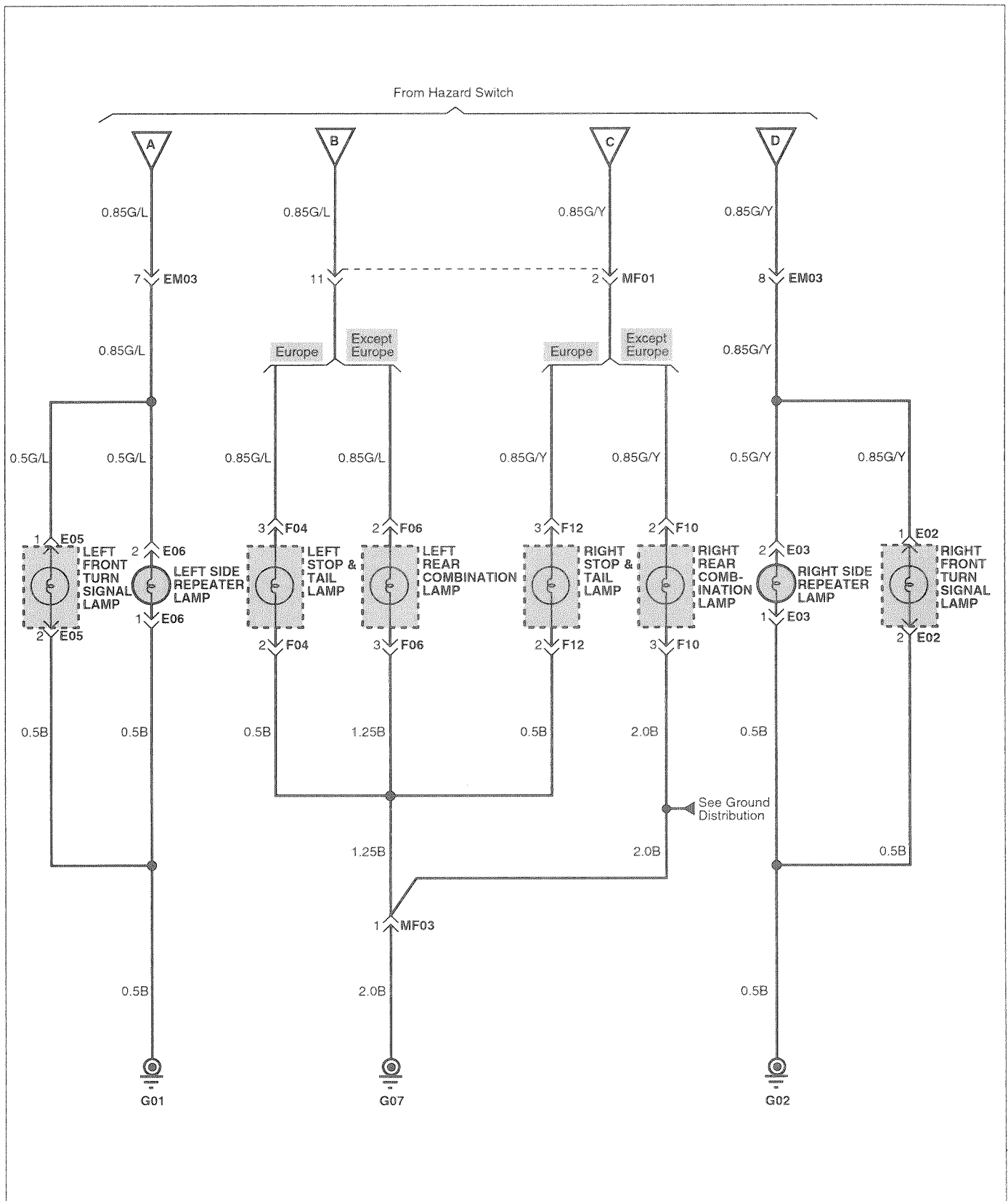
TURN & HAZARD LAMPS

E2XC0420

TURN & HAZARD LAMPS (1)



TURN & HAZARD LAMPS (2)



COMPONENT LOCATION INDEX

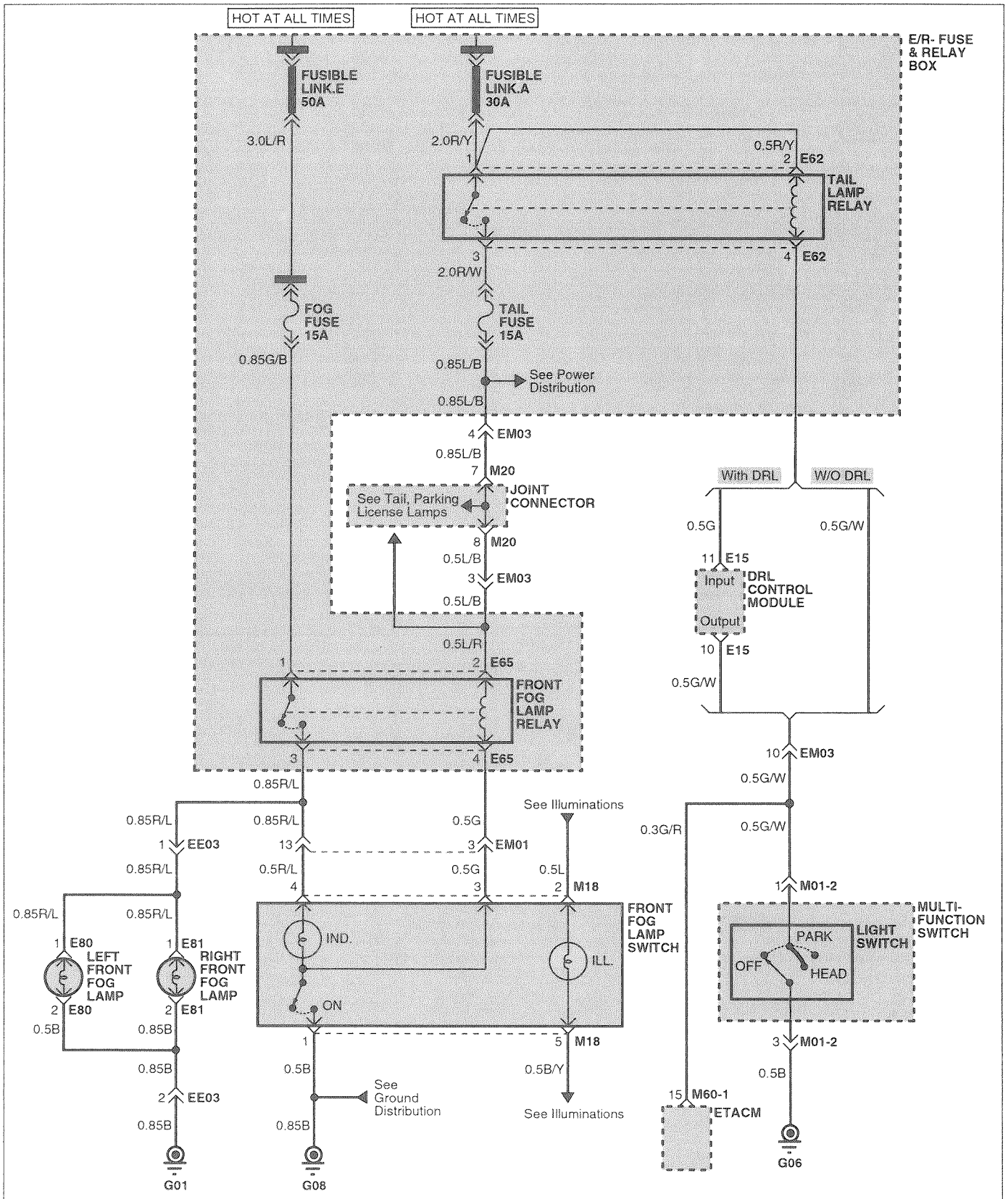
Components		Location reference-page
E02	Right front turn signal lamp	CL- 7
E03	Right side repeater lamp	CL- 7
E05	Left front turn signal lamp	CL- 7
E06	Left side repeater lamp	CL- 7
F04	Left stop & tail lamp	CL-13
F06	Left rear combination lamp	CL-13
F10	Right rear combination lamp	CL-13
F12	Right stop & tail lamp	CL-13
M01-2	Multifunction switch	CL- 2
M10-2	Instrument cluster	CL- 2
M10-3	Instrument cluster	CL- 2
M19	Joint connector	CL- 2
M64	Hazard switch	CL- 4
M82	Flusher unit	CL- 5
Connectors		
EM03		CL-12
MF01		CL- 6
Grounds		
G01		CL-18
G02		CL-18
G06		CL-18
G07		CL-18

MEMO

FRONT FOG LAMPS

E2XC0430

FRONT FOG LAMPS (1)



E2XC043A

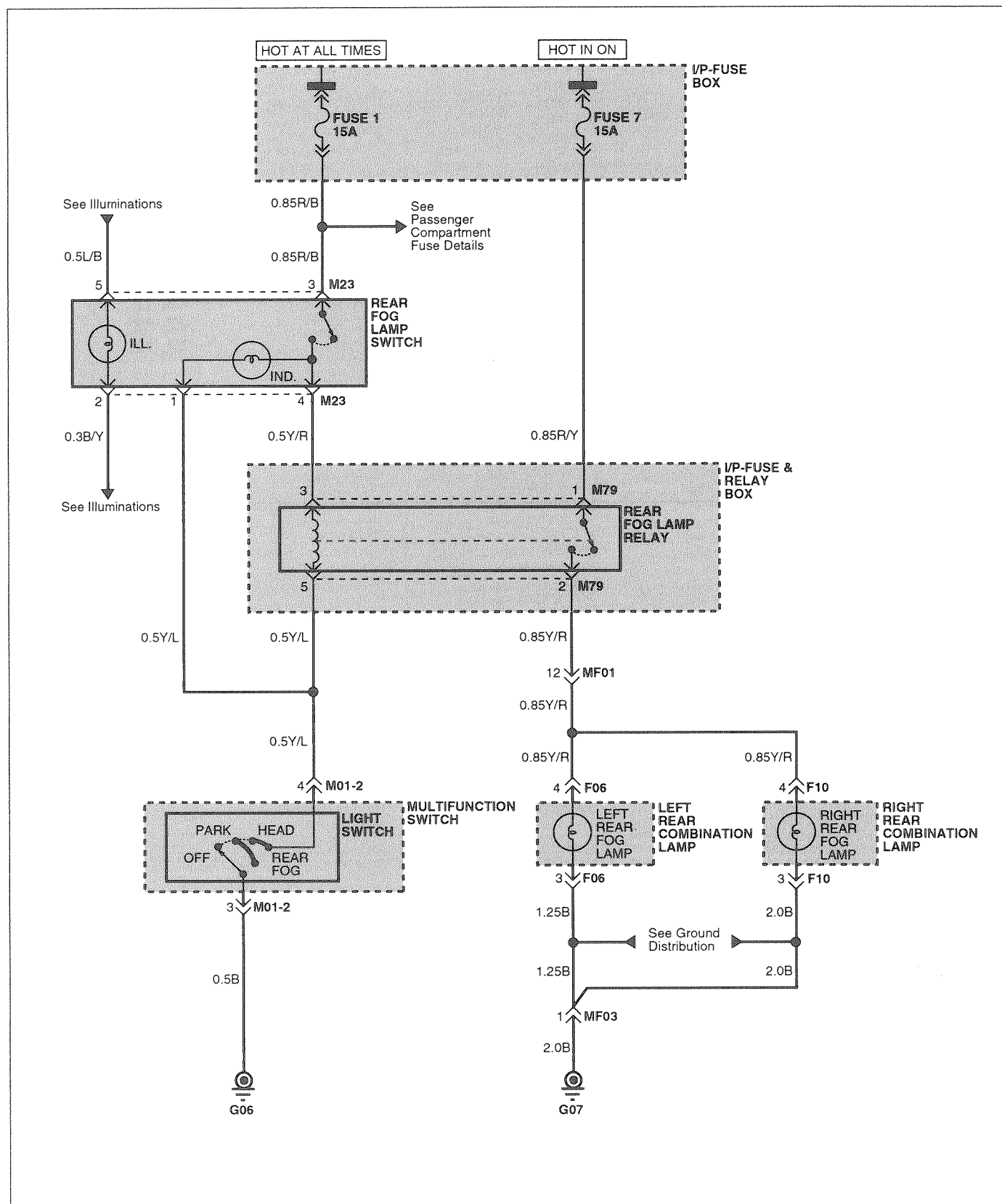
COMPONENT LOCATION INDEX

Components		Location reference-page
E62	Tail lamp relay	CL- 9
E65	Front fog lamp relay	CL- 9
E80	Left front fog lamp	CL-10
E81	Right front fog lamp	CL-10
M01-2	Multifunction switch	CL- 3
M18	Front fog lamp switch	CL- 2
M20	Joint connector	CL- 2
Connectors		
EE03		CL-12
EM01		CL-12
EM03		CL-12
Grounds		
G01		CL-18
G06		CL-18
G08		CL-18

REAR FOG LAMPS

E2XC0440

REAR FOG LAMPS (1)



E2XC044A

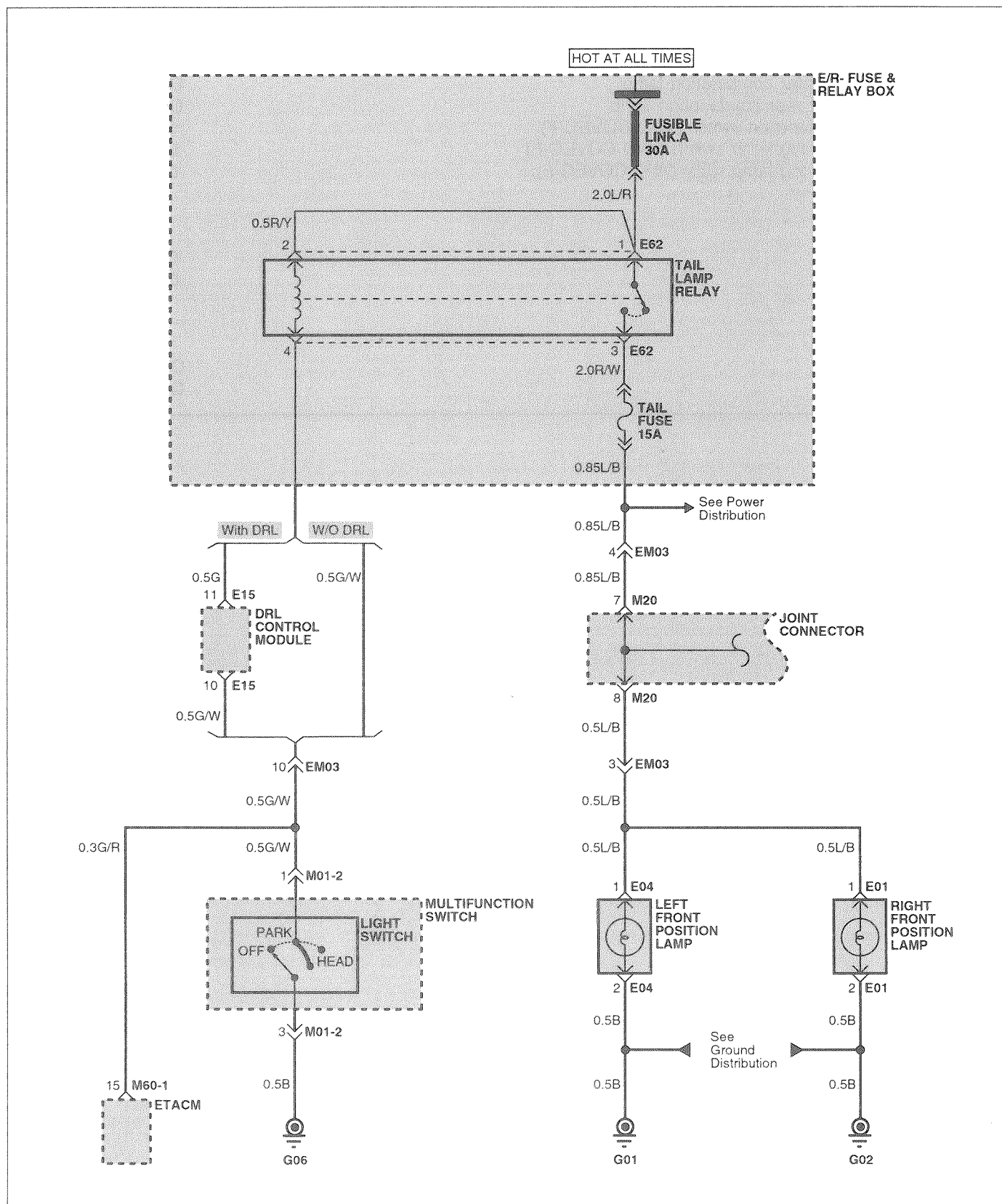
COMPONENT LOCATION INDEX

Components		Location reference-page
F06	Left rear combination lamp	CL-13
F10	Right rear combination lamp	CL-13
M01-2	Multifunction switch (W/O COVEC-F)	CL-2
M23	Rear fog lamp switch (W/O COVEC-F)	CL-2
M79	Rear fog lamp relay (W/O COVEC-F)	CL-5
Connectors		
MF01		CL-6
MF03		CL-6
Grounds		
G06		CL-18
G07		CL-18

TAIL, PARKING & LICENSE LAMPS

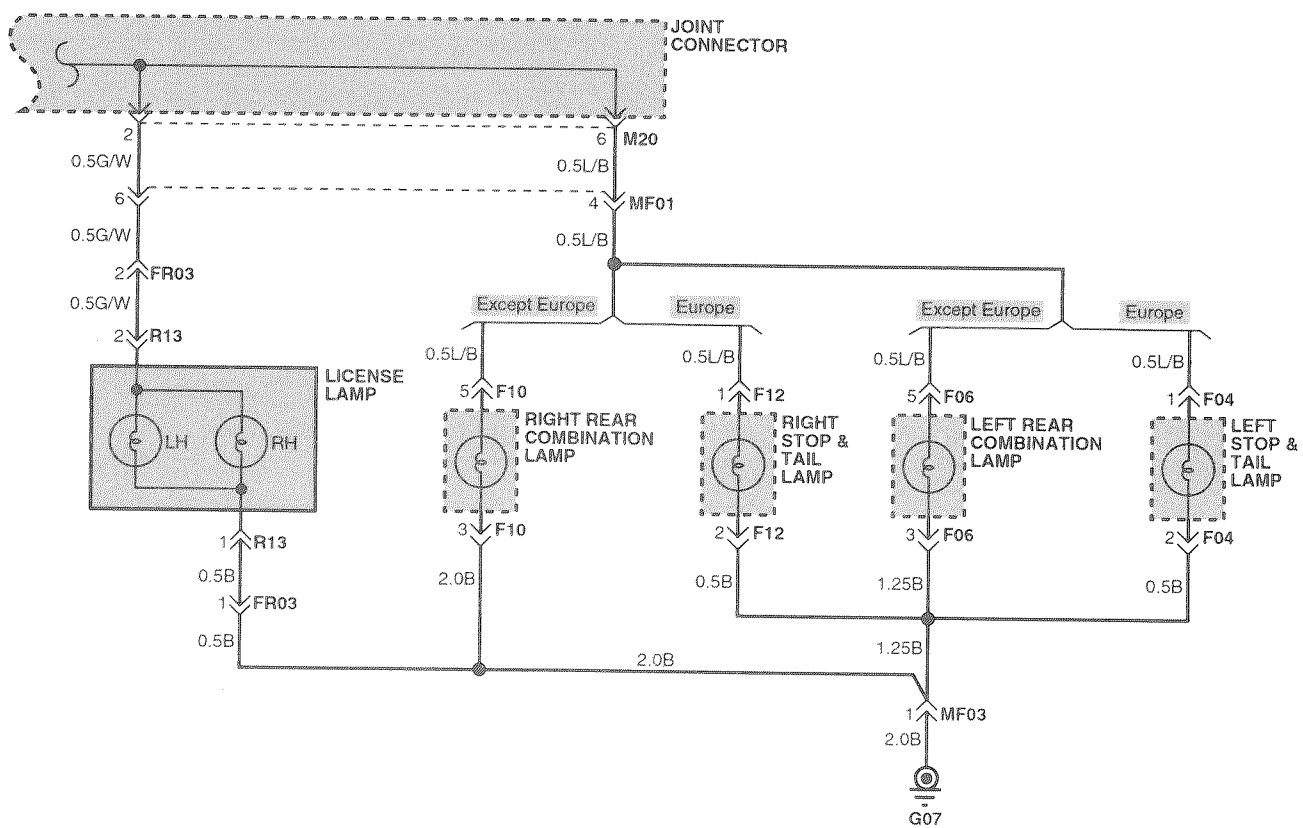
E2XC0450

TAIL, PARKING & LICENSE LAMPS (1)



E2XC045A

TAIL, PARKING & LICENSE LAMPS (2)



COMPONENT LOCATION INDEX

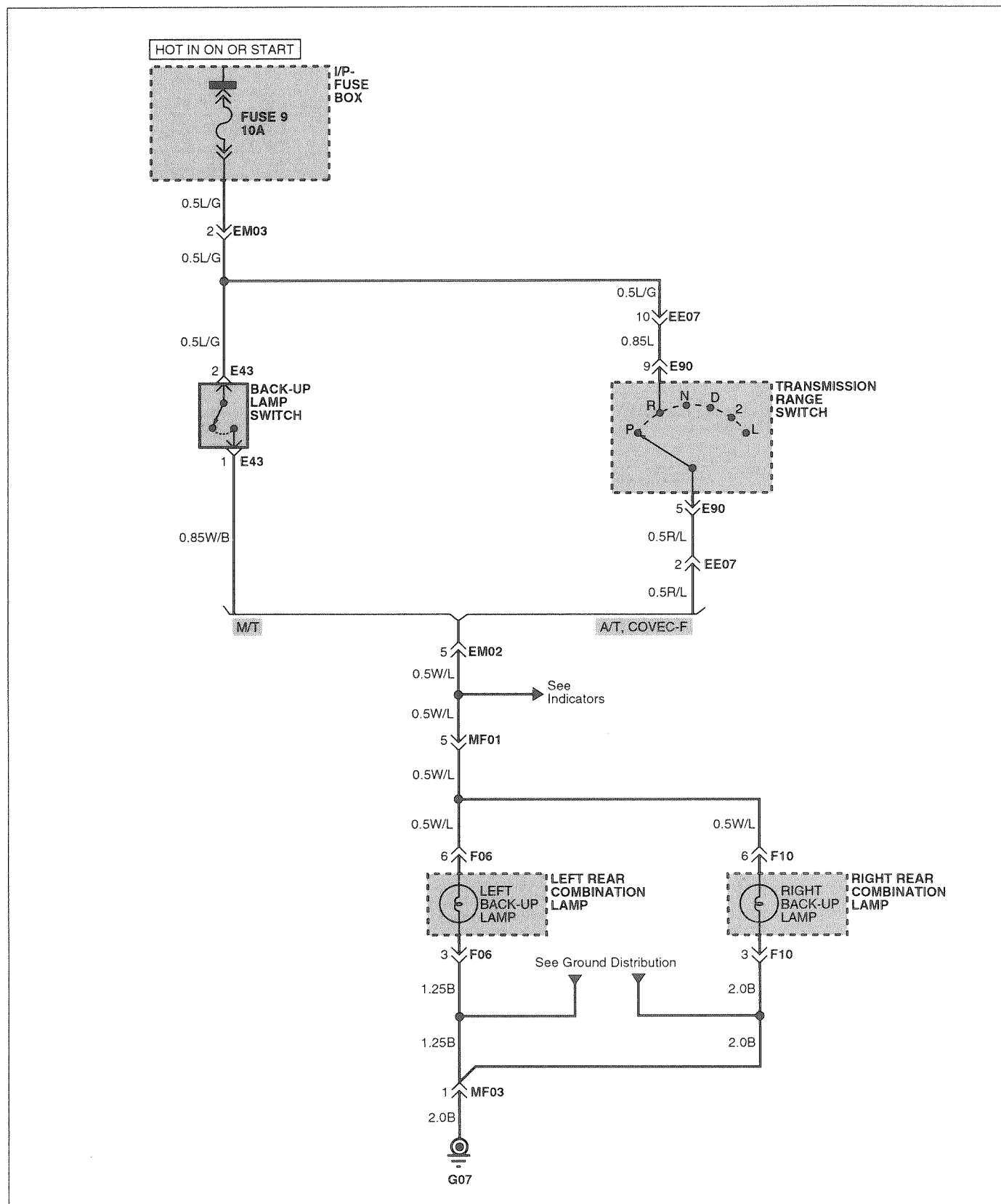
Components		Location reference-page
E01	Right position lamp	CL- 7
E04	Left position lamp	CL- 7
E62	Tail lamp relay	CL- 9
F04	Left stop & tail lamp	CL-13
F06	Left rear combination lamp	CL-13
F10	Right rear combination lamp	CL-13
F12	Right stop & tail lamp	CL-13
M01-2	Multifunction switch	CL- 2
R13	License lamp	CL-17
Connectors		
EM03		CL-12
MF01		CL- 6
MF03		CL- 6
Grounds		
G01		CL-18
G02		CL-18
G06		CL-18
G07		CL-18

MEMO

BACK-UP LAMPS

E2XC0460

BACK-UP LAMPS (1)



E2XC046A

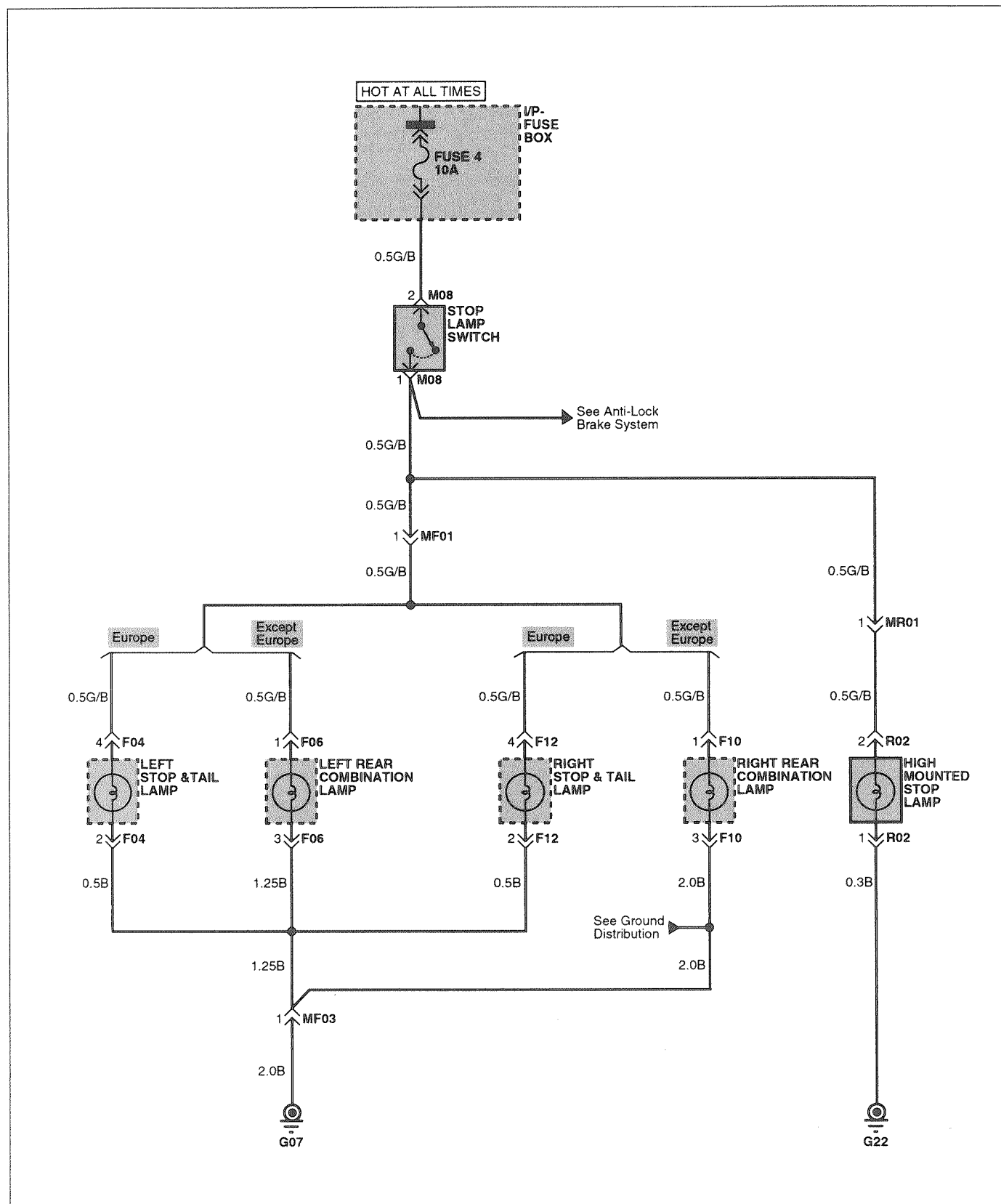
COMPONENT LOCATION INDEX

Components		Location reference-page
E43	Back-up lamp switch	CL- 9
E90	Transmission range switch	CL-11
F06	Left rear combination lamp	CL-13
F10	Right rear combination lamp	CL-13
Connectors		
EE07		CL-12
EM02		CL-12
EM03		CL-12
MF01		CL- 6
MF03		CL- 6
Grounds		
G07		CL-18

STOP LAMPS

E2XC0470

STOP LAMPS (1)



E2XC047A

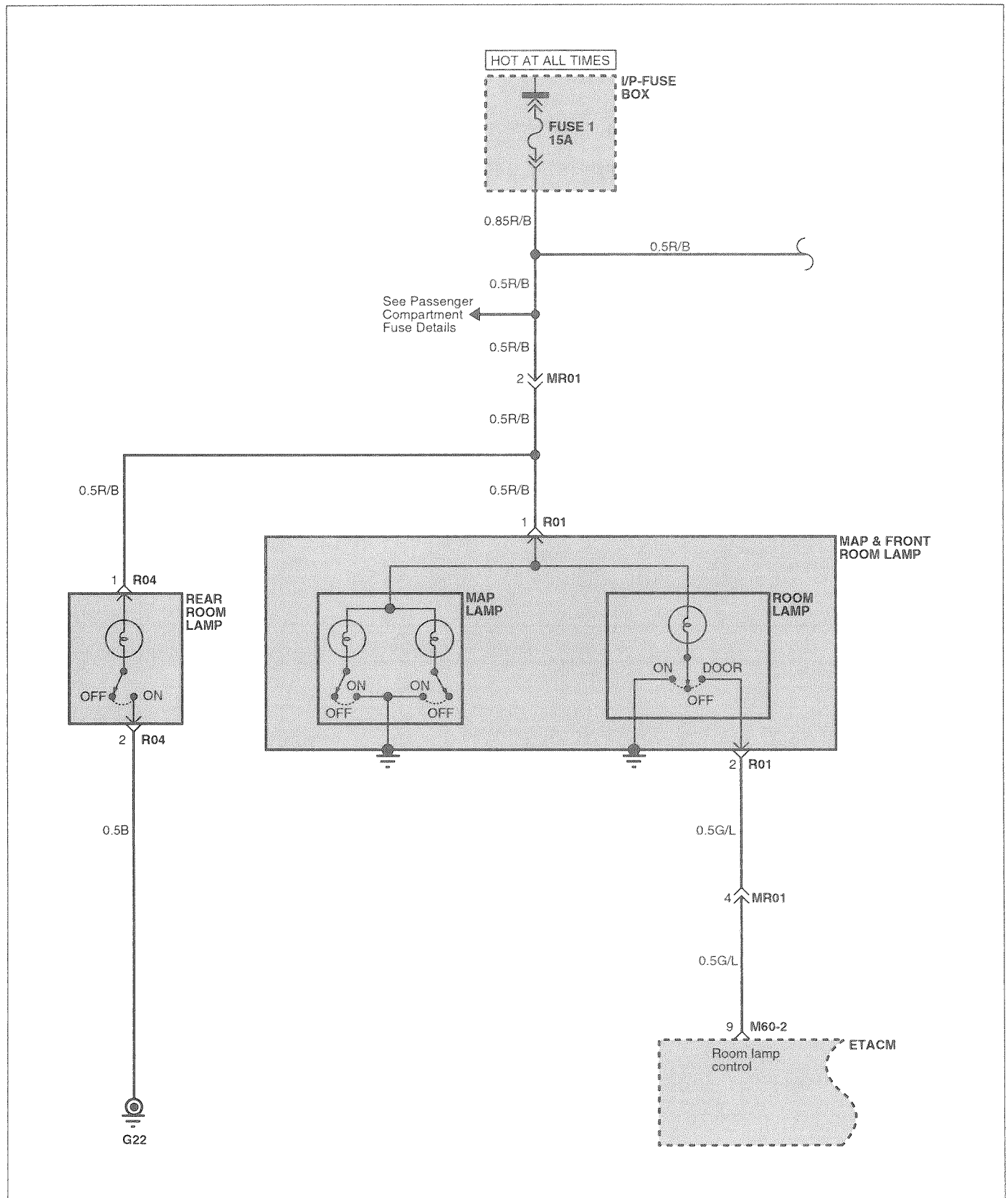
COMPONENT LOCATION INDEX

Components		Location reference-page
F04	Left stop & tail lamp	CL-13
F06	Left rear combination lamp	CL-13
F10	Right rear combination lamp	CL-13
F12	Right stop & tail lamp	CL-13
M08	Stop lamp switch (COVEC-F)	CL- 2
R02	High-mounted stop lamp	CL-17
Connectors		
MF01		CL- 6
MF03		CL- 6
MR01		CL- 6
Grounds		
G07		CL-18

COURTESY LAMPS

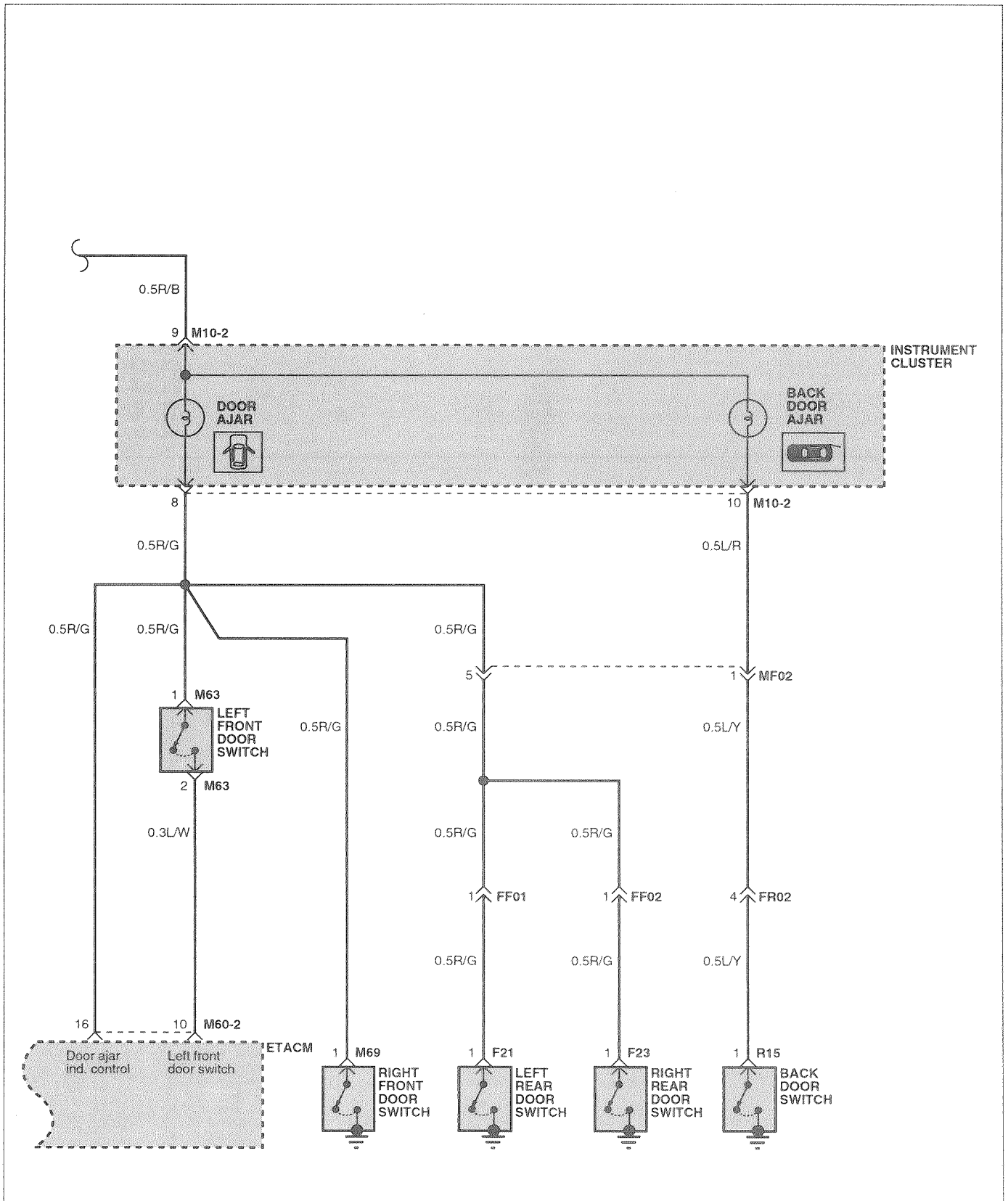
E2XC0480

COURTESY LAMPS (1)



E2XC048A

COURTESY LAMPS (2)



COMPONENT LOCATION INDEX

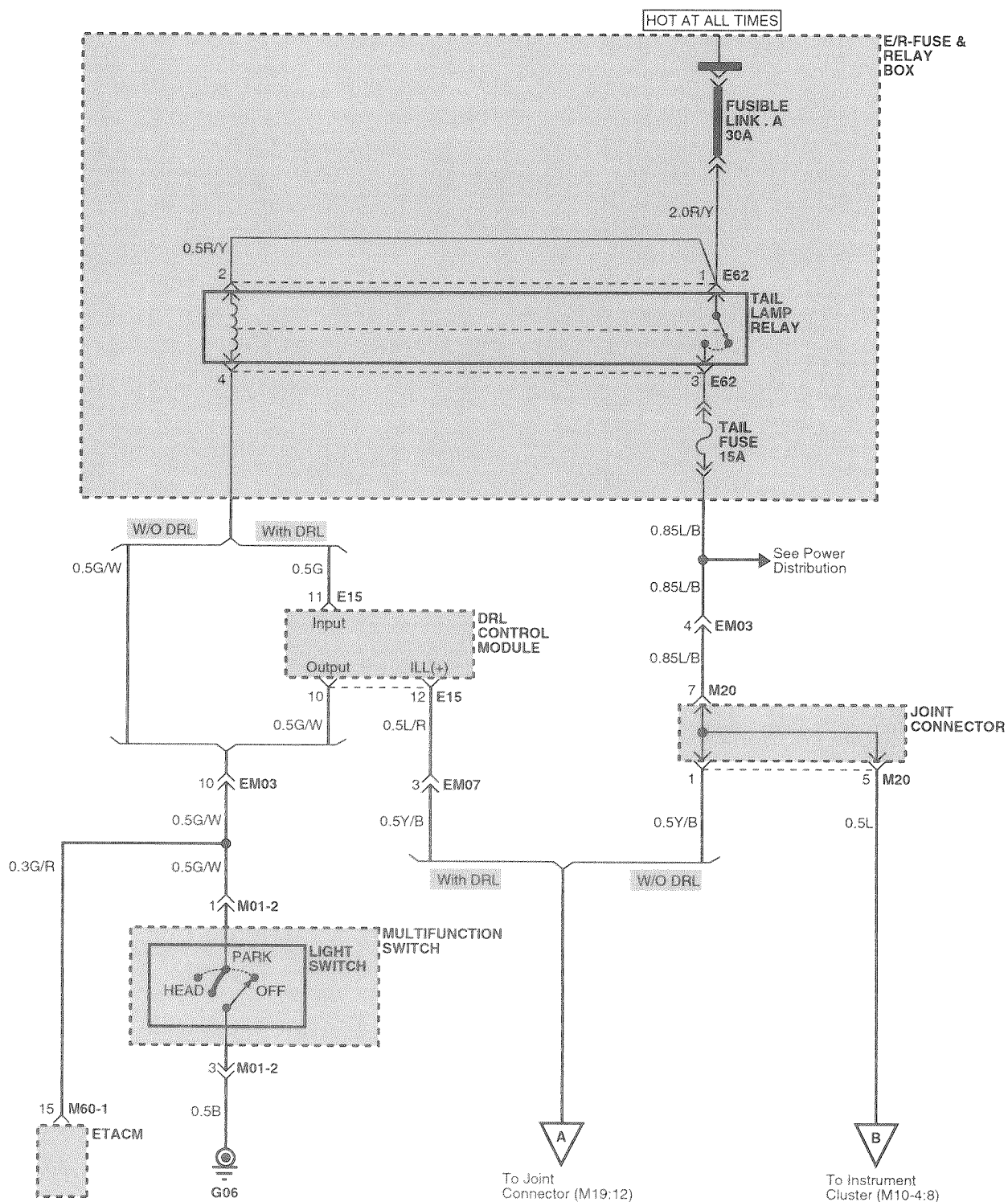
Components		Location reference-page
F21	Left rear door switch	CL-14
F23	Right rear door switch	CL-14
M10-2	Instrument cluster	CL- 2
M60-2	ETACM	CL- 4
M63	Left front door switch	CL- 4
M69	Right front door switch	CL- 5
R01	Map & front room lamp	CL-17
R04	Rear room lamp	CL-17
R15	Back door switch	CL-17
Connectors		
FF01		CL-14
FF02		CL-14
FR02		CL-14
MF02		CL- 6
MR01		CL- 6

MEMO

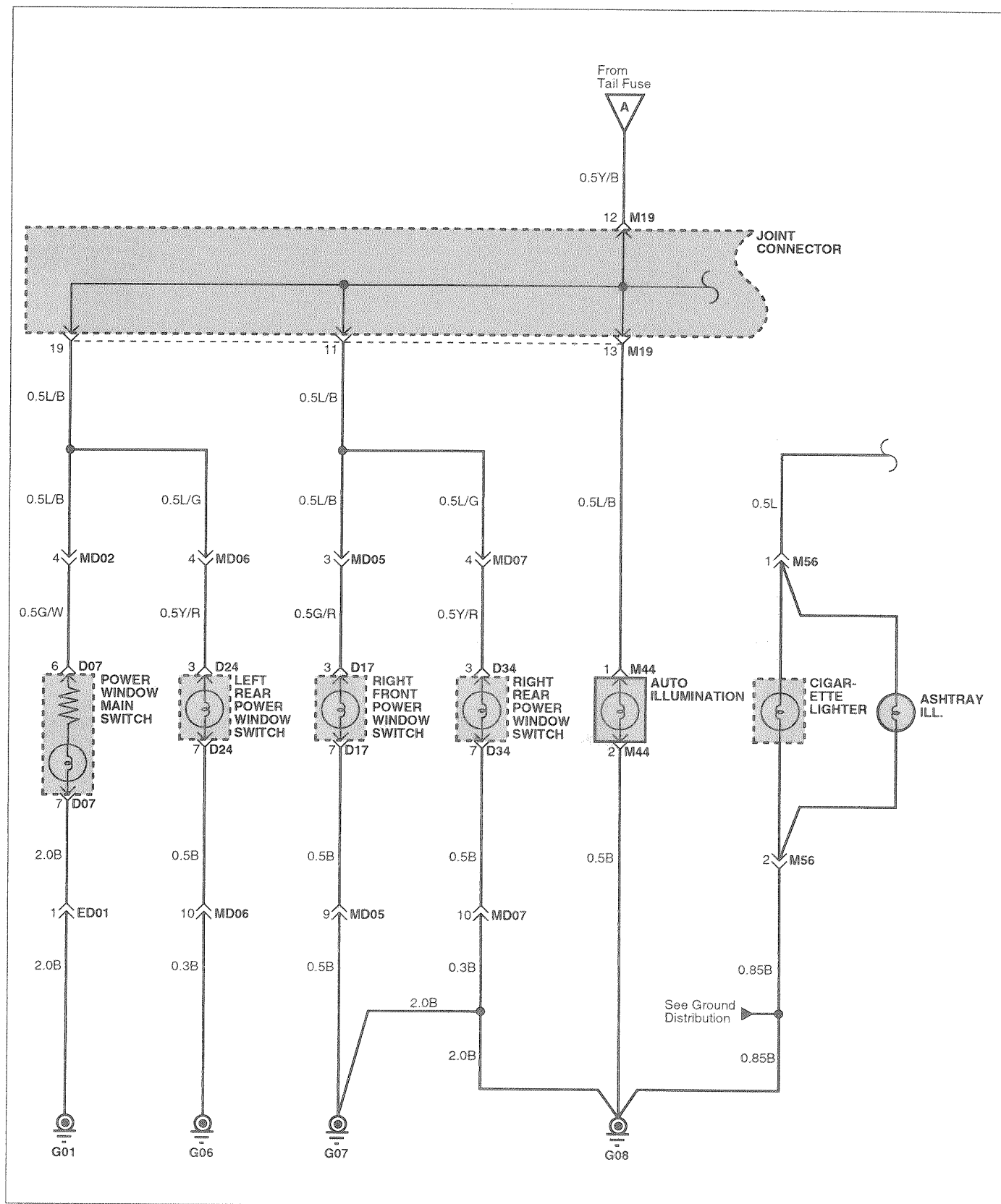
ILLUMINATIONS

E2XC0490

ILLUMINATIONS (1)

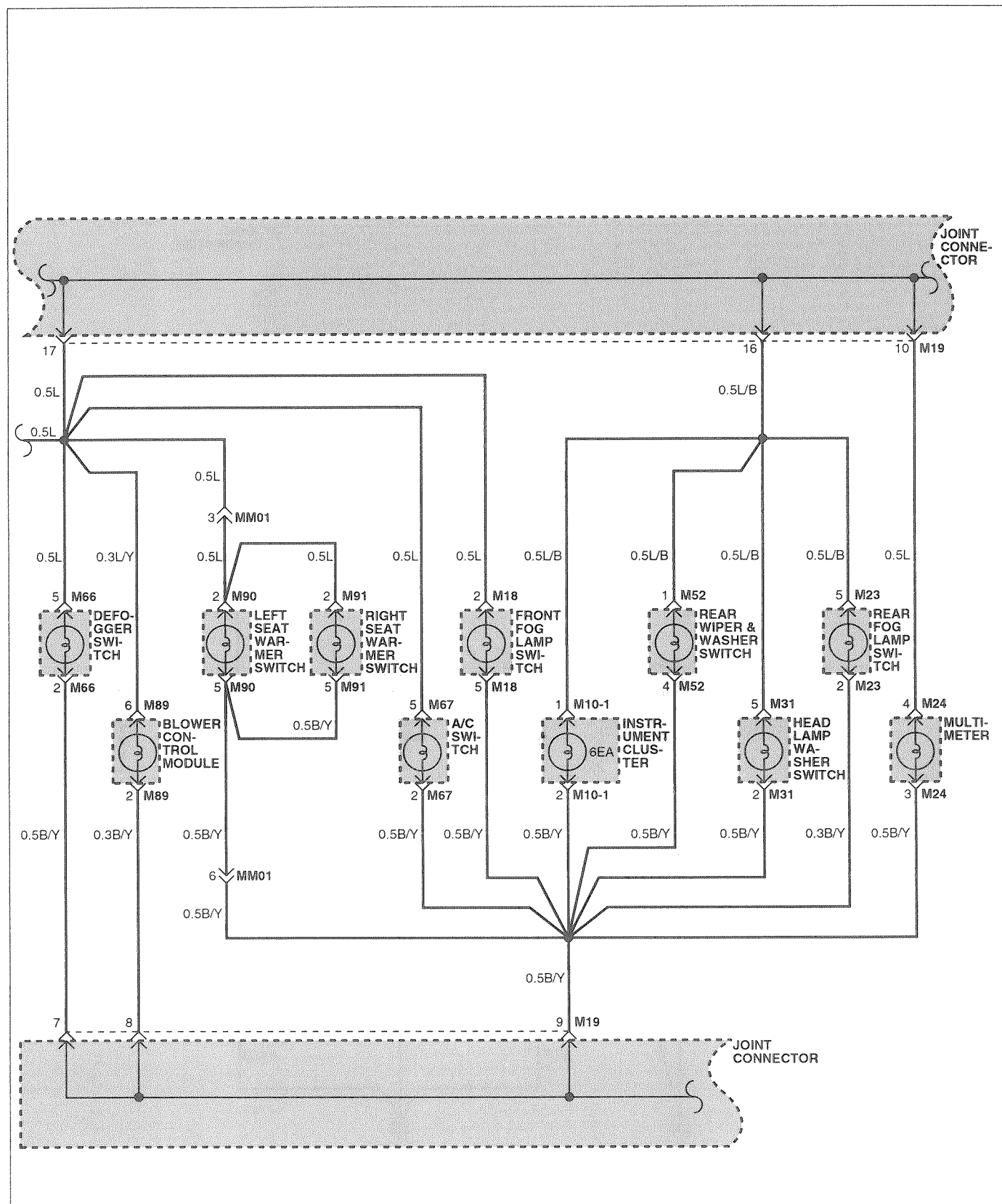


ILLUMINATIONS (2)

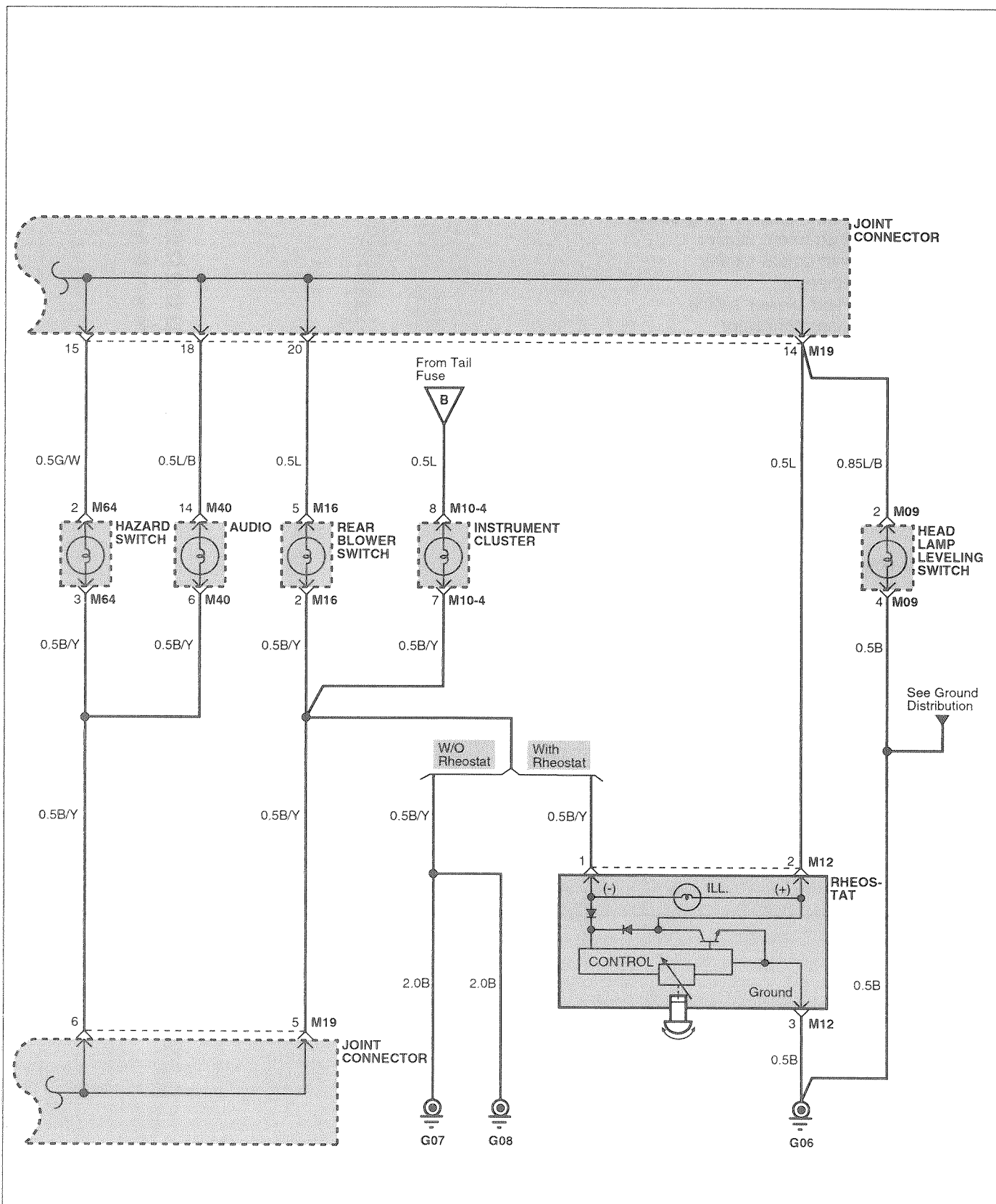


E2XC049B

ILLUMINATIONS (3)



ILLUMINATIONS (4)



COMPONENT LOCATION INDEX

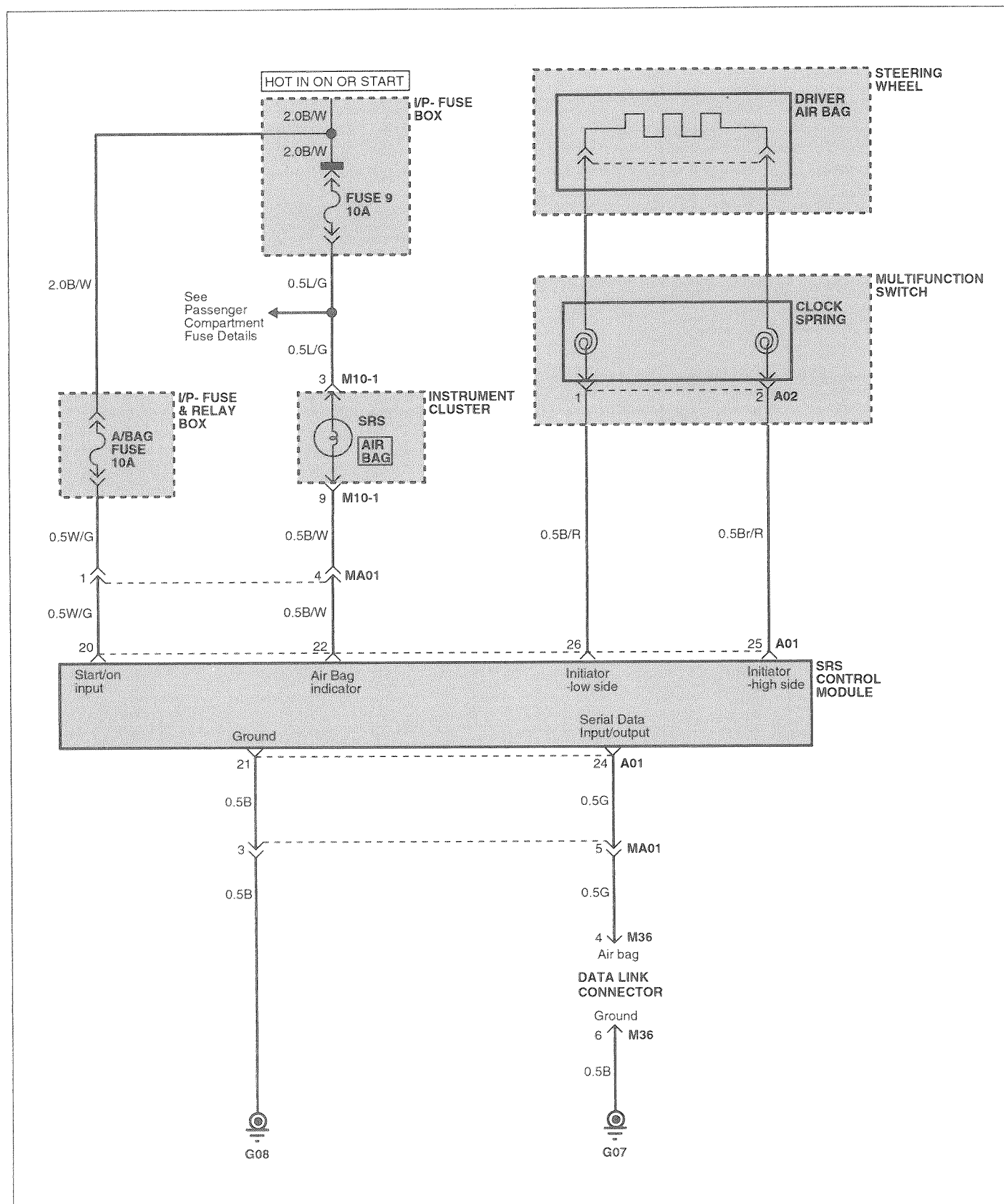
Components		Location reference-page
D07	Power window main switch	CL-16
D17	Right front power window switch	CL-16
D24	Left rear power window switch	CL-16
D34	Right rear power window switch	CL-16
E62	Tail lamp relay	CL- 9
M01-2	Multifunction switch	CL- 2
M09	Head lamp leveling switch	CL- 2
M10-1	Instrument cluster	CL- 2
M10-4	Instrument cluster	CL- 2
M12	Rheostat	CL- 2
M16	Rear blower switch	CL- 3
M19	Joint connector	CL- 2
M20	Joint connector	CL- 2
M24	Multimeter	CL- 2
M31	Head lamp washer switch	CL- 2
M40	Audio	CL- 3
M44	Auto illumination	CL- 3
M56	Cigarette lighter	CL- 4
M64	Hazard switch	CL- 4
M66	Defogger switch	CL- 4
M89	Blower control module	CL- 5
Connectors		
ED01		CL-11
EM03		CL-12
EM07		CL-12
MD02		CL- 6
MD05		CL- 6
MD06		CL- 6
MD07		CL- 6
Grounds		
G01		CL-18
G06		CL-18
G07		CL-18
G08		CL-18

MEMO

AIR BAG SYSTEM

E2XC0500

AIR BAG SYSTEM (1)



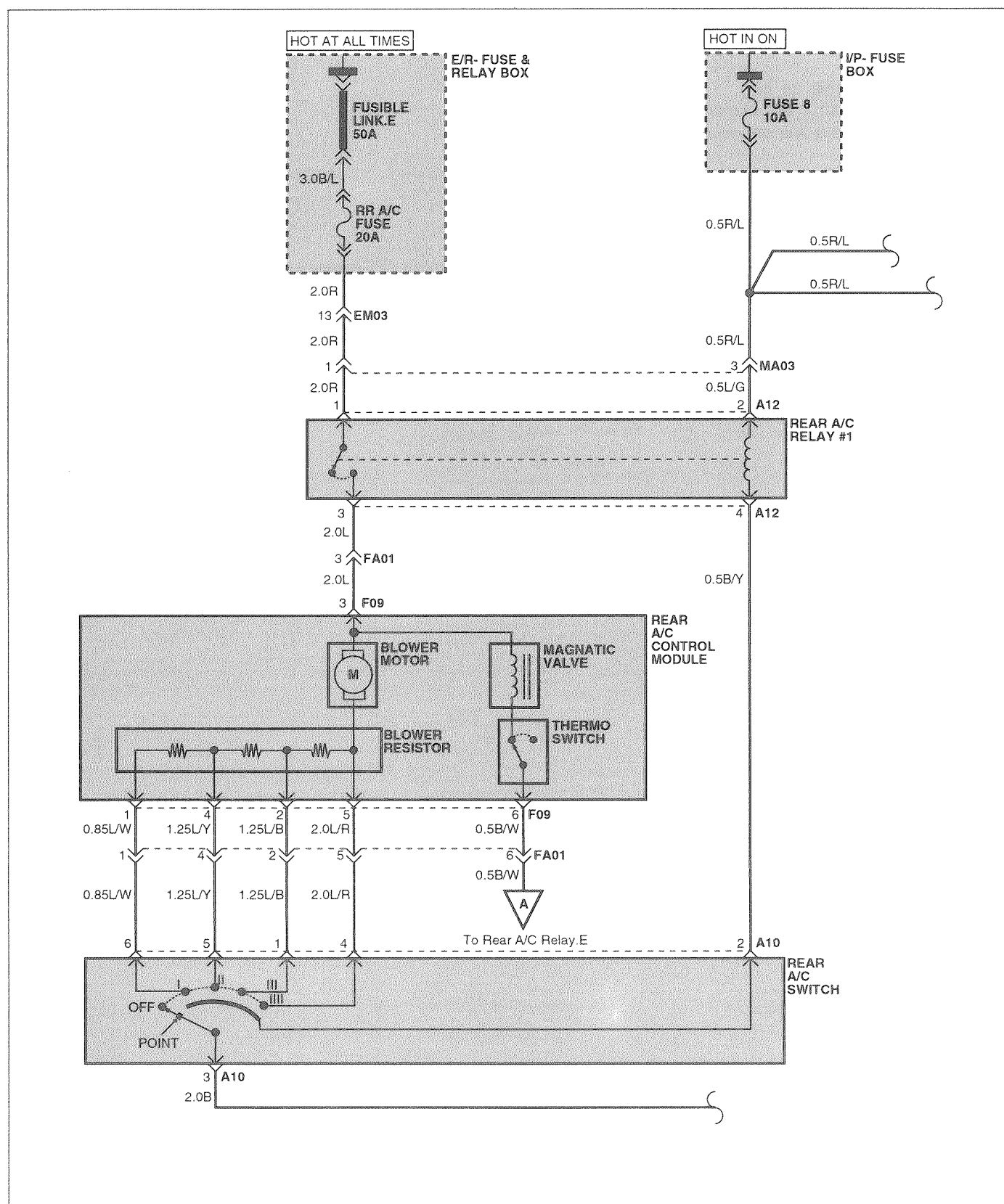
E2XC050A

COMPONENT LOCATION INDEX

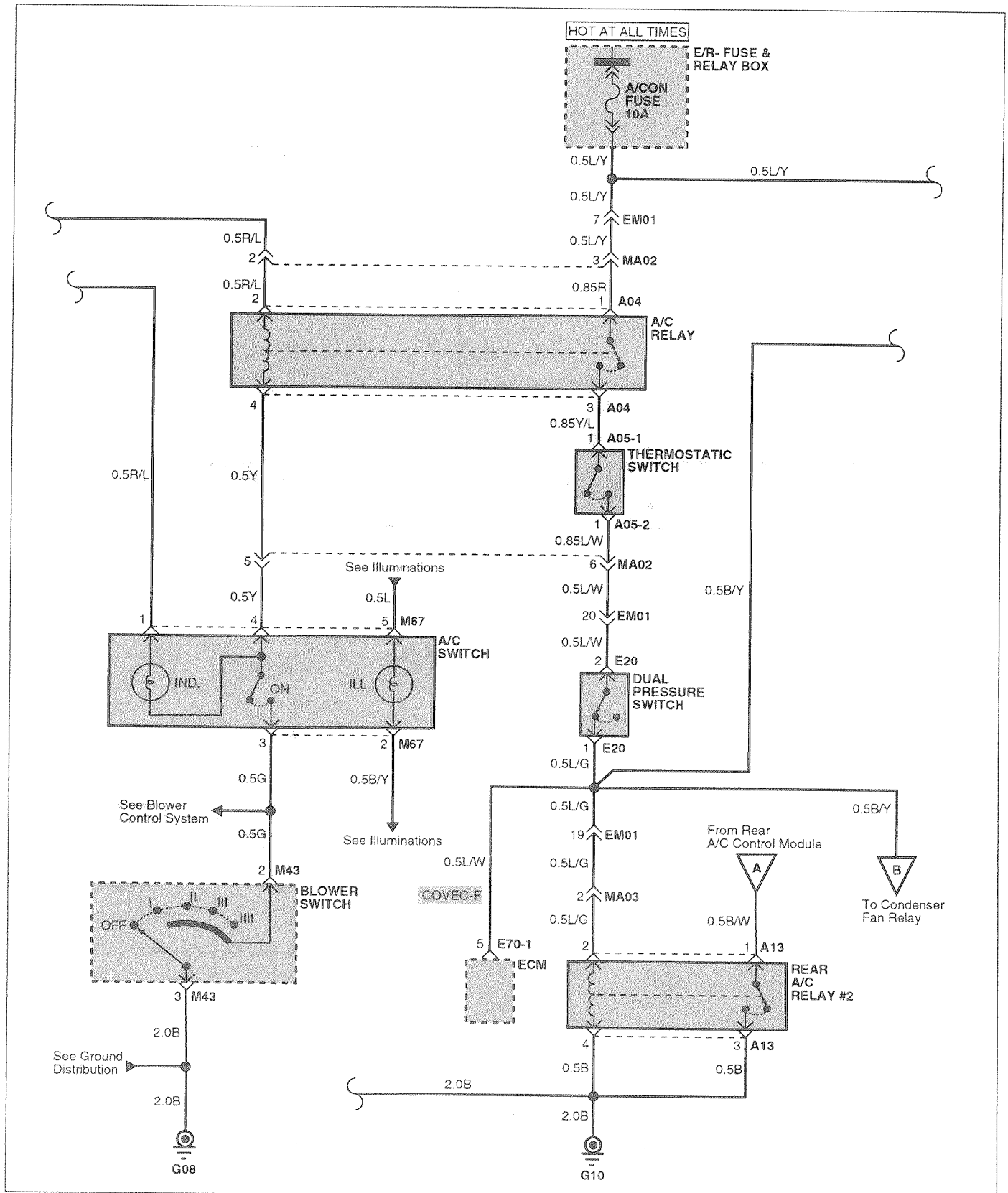
Components		Location reference-page
A02	Drive air bag	CL-15
M10-1	Instrument cluster (COVEC-F)	CL- 2
M36	Data link connector (COVEC-F)	CL- 3
Grounds		
G07		CL-18
G08		CL-18

F2XC0550

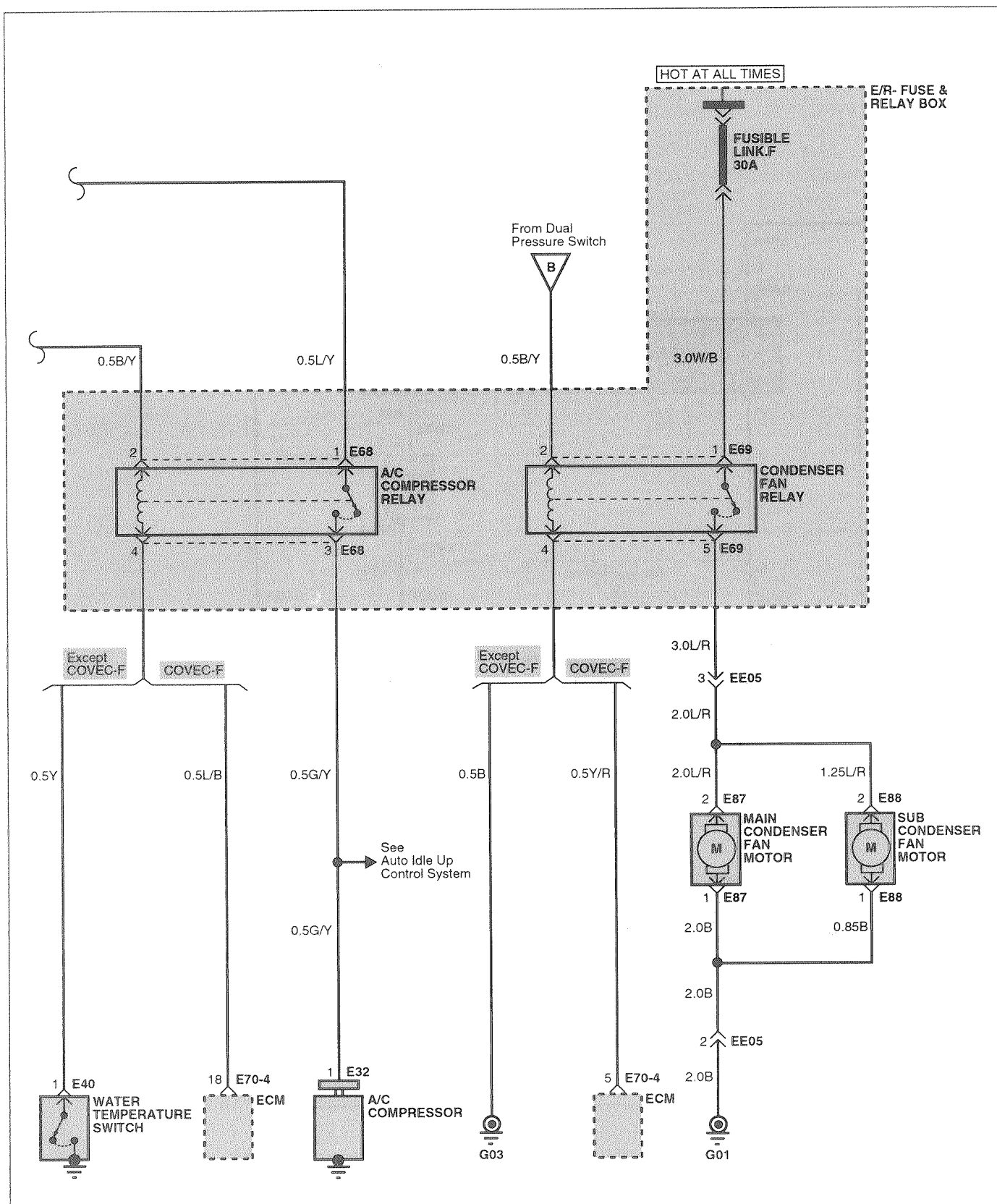
A/C CONTROL SYSTEM (1)



A/C CONTROL SYSTEM (2)



A/C CONTROL SYSTEM (3)

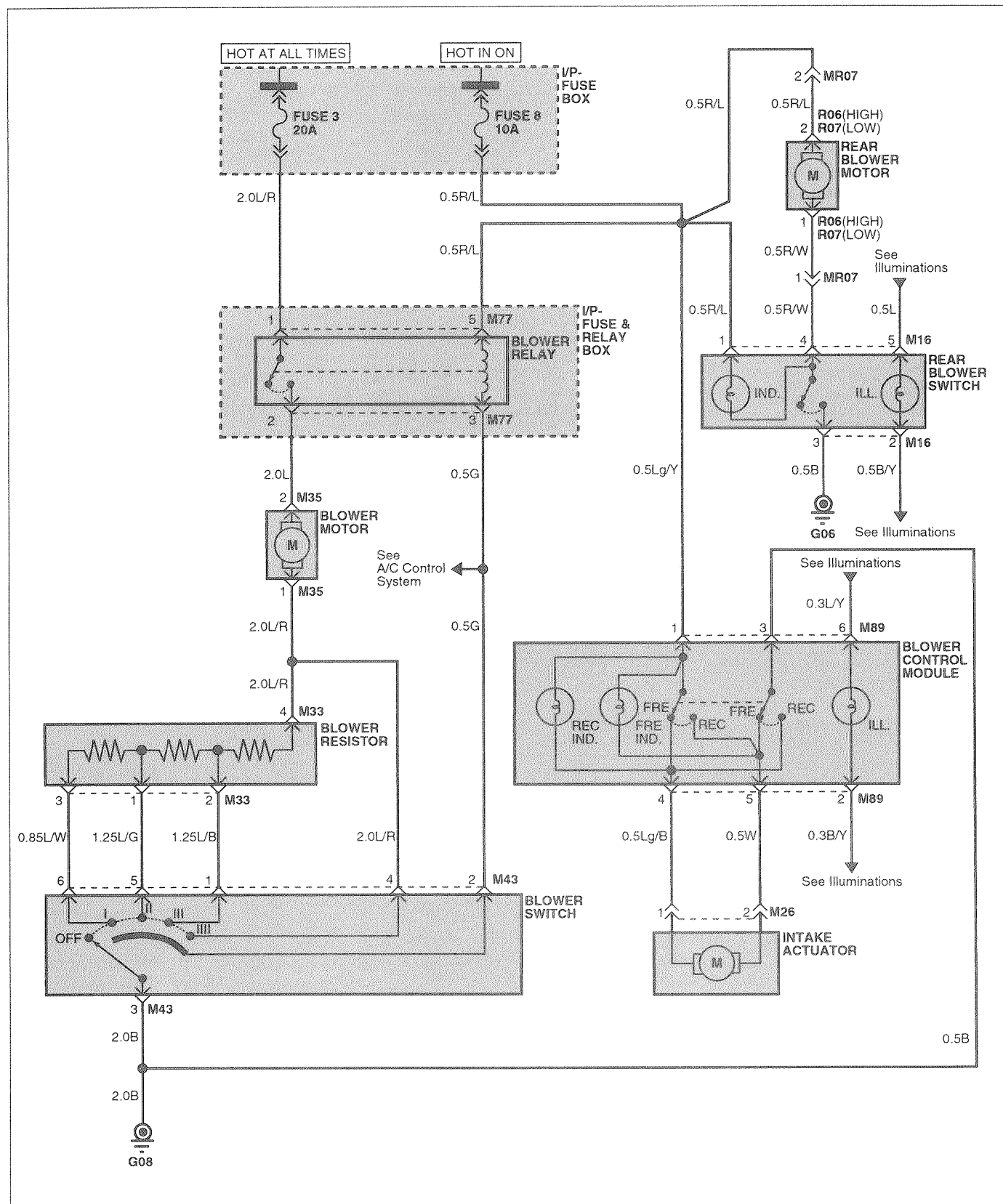


COMPONENT LOCATION INDEX

Components		Location reference-page
A04	A/C relay	CL-15
A05-1	Thermostatic switch	CL-15
A05-2	Thermostatic switch	CL-15
E20	Dual pressure switch	CL-7
E32	A/C Compressor	CL-8
E40	Water temperature switch	CL-8
E68	A/C Compressor relay	CL-9
F09	Rear A/C Control module	CL-13
M43	Blower switch	CL-3
M67	A/C switch	CL-4
Connectors		
EM01		CL-12
EM03		CL-12
FA01		CL-14
MA02		CL-5
MA03		CL-6
Grounds		
G08		CL-18

E2XC0520

BLOWER CONTROL SYSTEM (1)



COMPONENT LOCATION INDEX

Components		Location reference-page
M16	Rear blower switch	CL-3
M26	Intake actuator	CL-2
M33	Blower resistor	CL-3
M35	Blower motor	CL-3
M77	Blower relay	CL-5
M89	Blower control module	CL-5
Connectors		
MR07		CL-6
Grounds		
G06		CL-18
G08		CL-18

COMPONENT LOCATIONS

AIR BAG & A/C HARNESS CL-15

BODY HARNESS CL-2

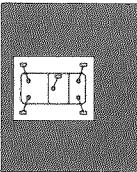
DOOR HARNESS CL-16

FRAME HARNESS CL-13

FRONT HARNESS CL-7

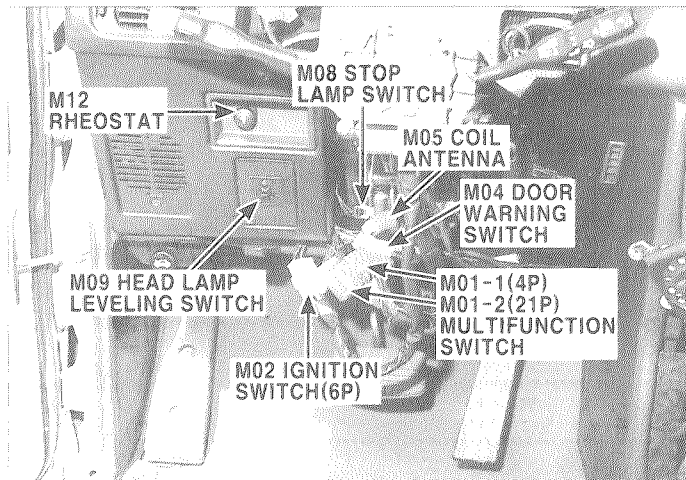
GROUNDS CL-18

ROOF & BACK DOOR HARNESS CL-17

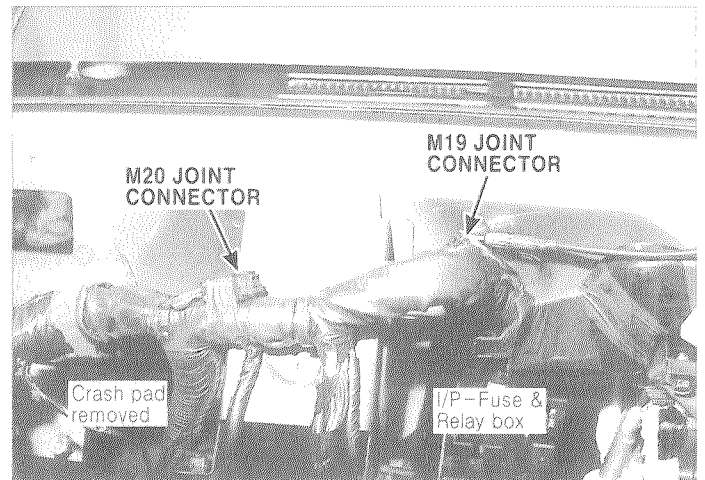


BODY HARNESS

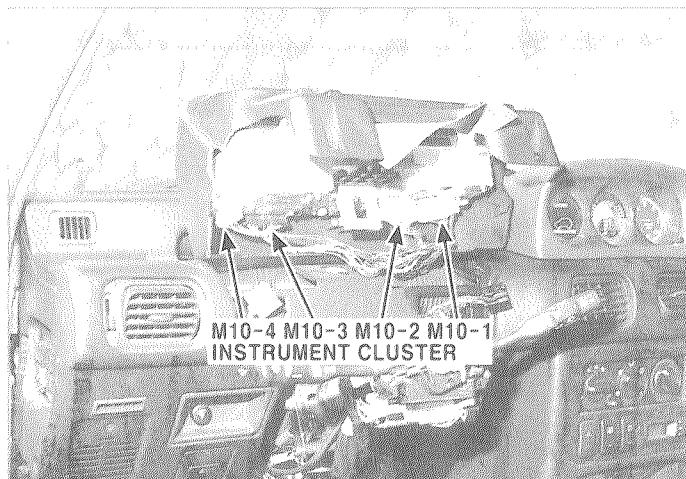
BODY HARNESS(1)



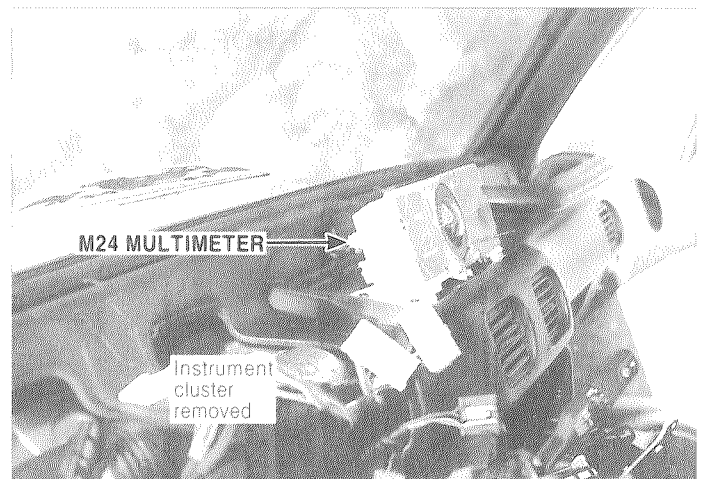
M01-1,M01-2,M04,M05,M08,M09,M12 E3XC001A



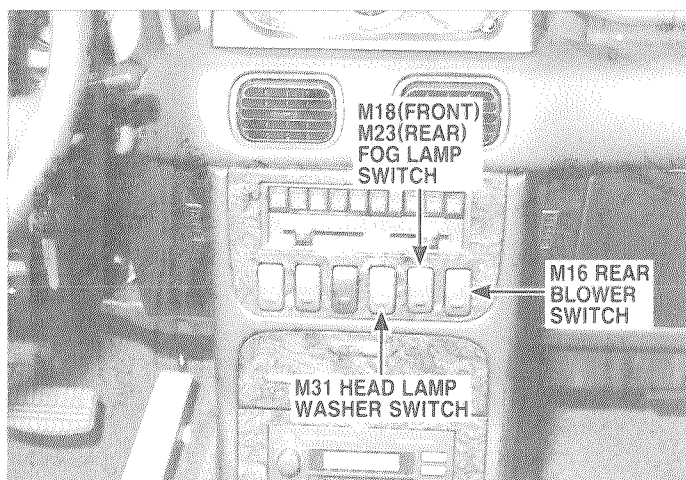
M19,M20 E3XC001D



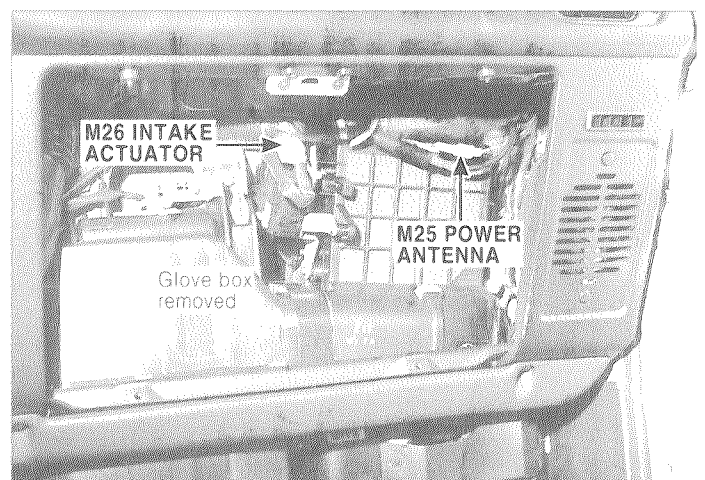
M10-1,M10-2,M10-3,M10-4 E3XC001B



M24 E3XC001E

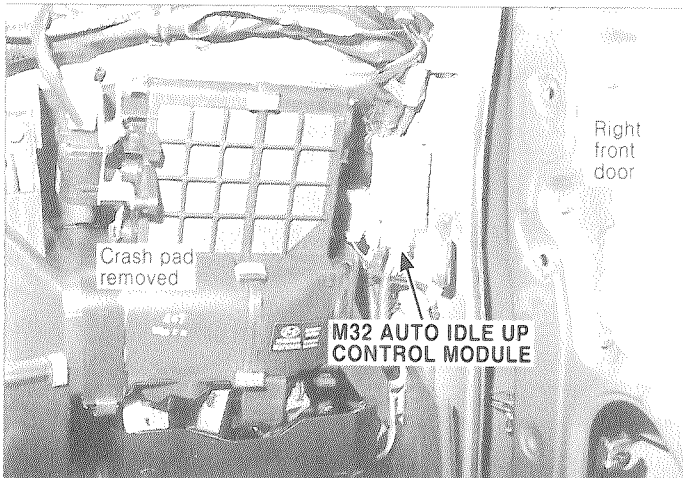


M16,M18,M23,M31 E3XC001C



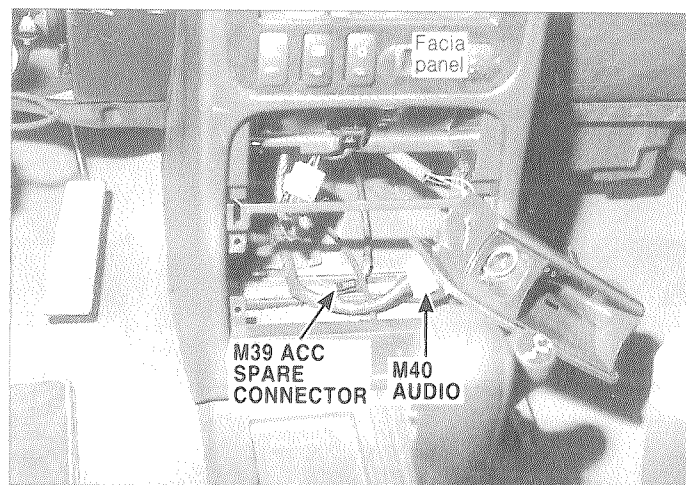
M25,M26 E3XC001F

BODY HARNESS(2)



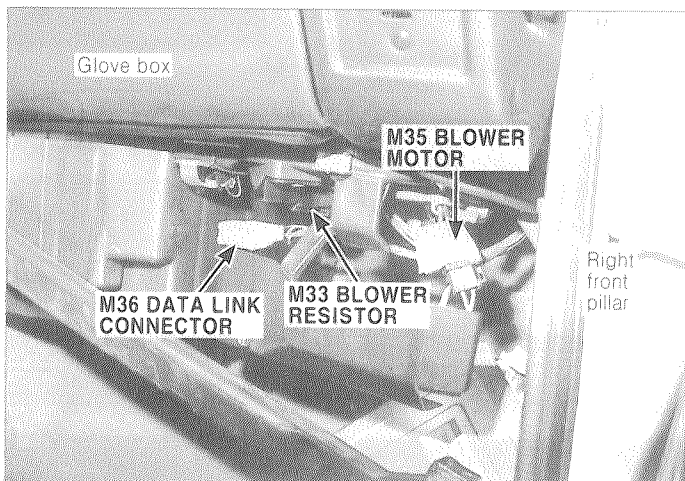
M32

E3XC001G



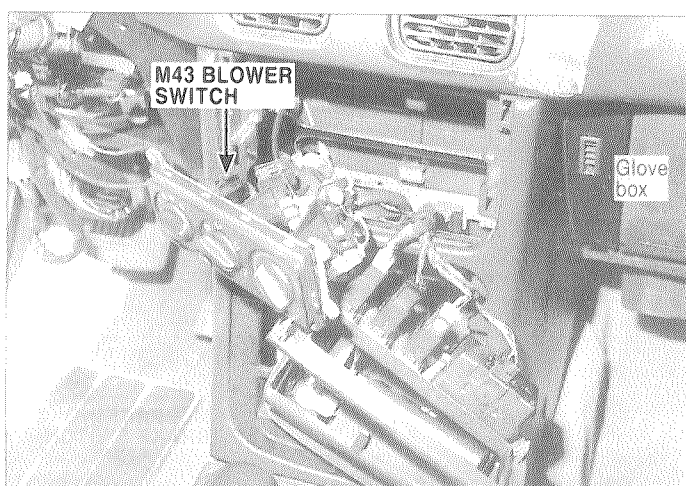
M39,M40

E3XC001K



M33,M35,M36

E3XC001H



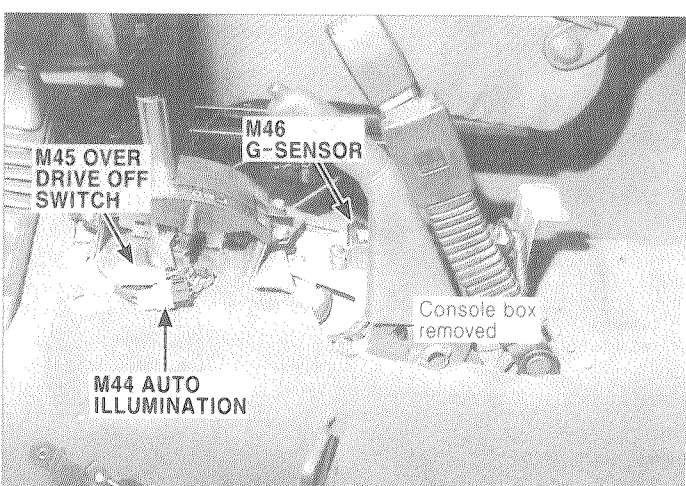
M43

E3XC001L



M34

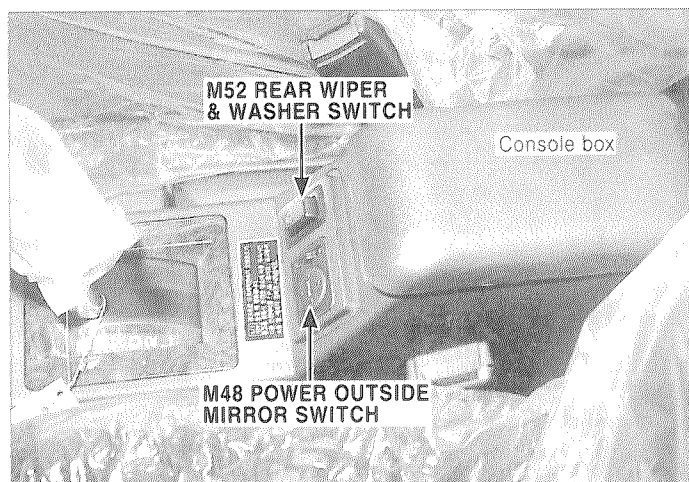
E3XC001J



M44,M45,M46

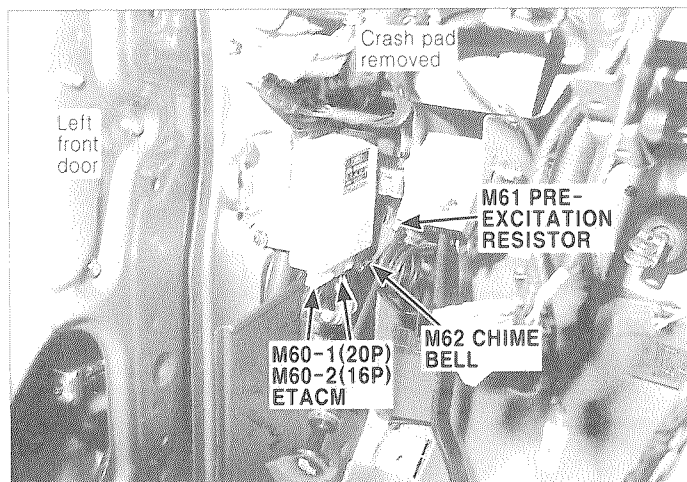
E3XC001M

BODY HARNESS(3)



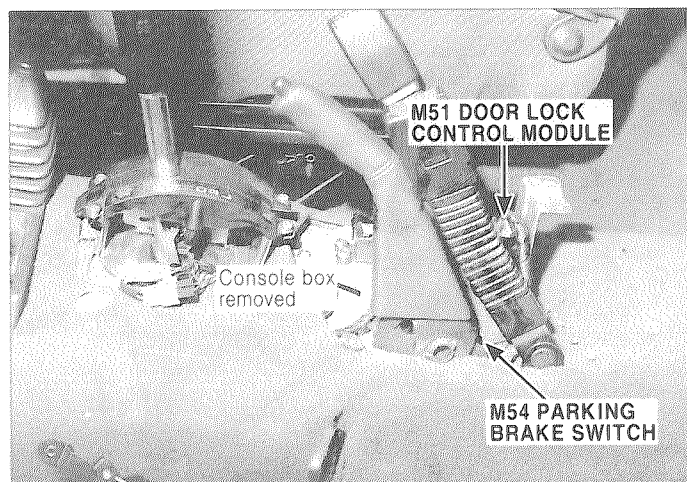
M48,M52

E3XC001N



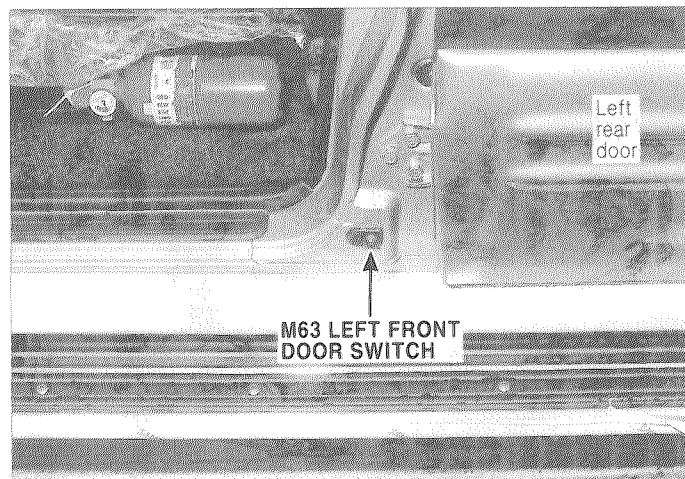
M60-1,M60-2,M61,M62

E3XC001R



M51,M54

E3XC001P



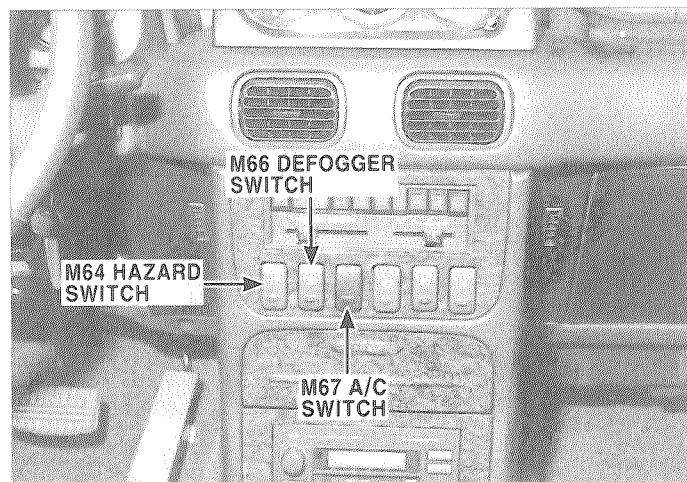
M63

E3XC001S



M56

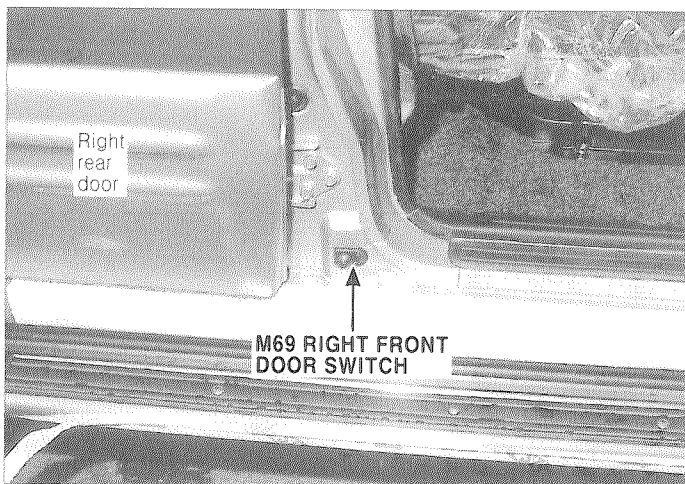
E3XC001Q



M64,M66,M67

E3XC001T

BODY HARNESS(4)



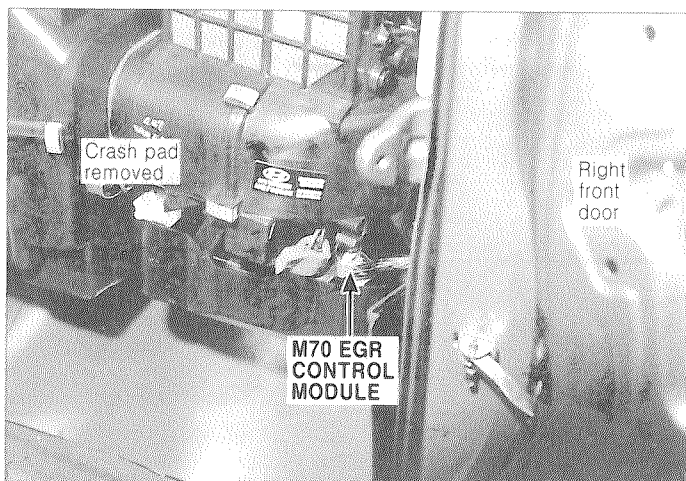
M69

E3XC001U



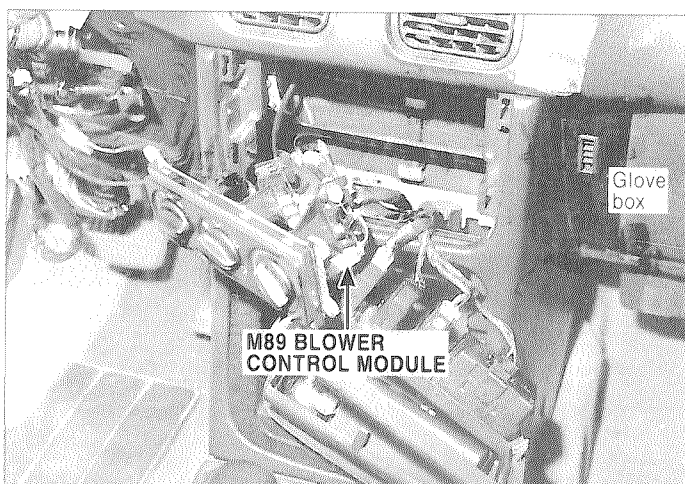
M88

E3XC001X



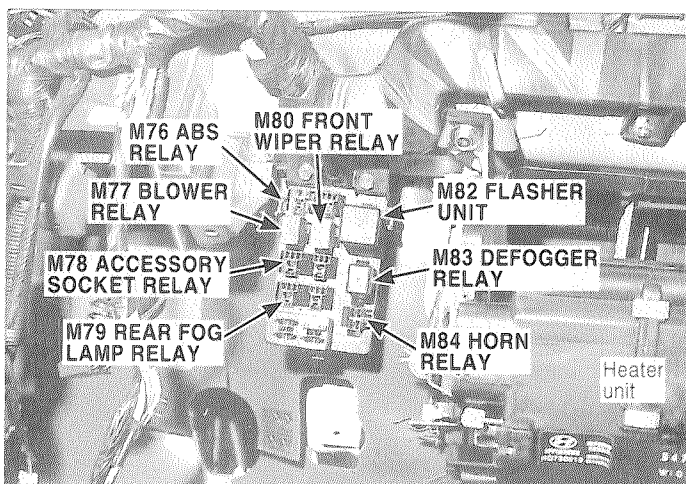
M70

E3XC001V



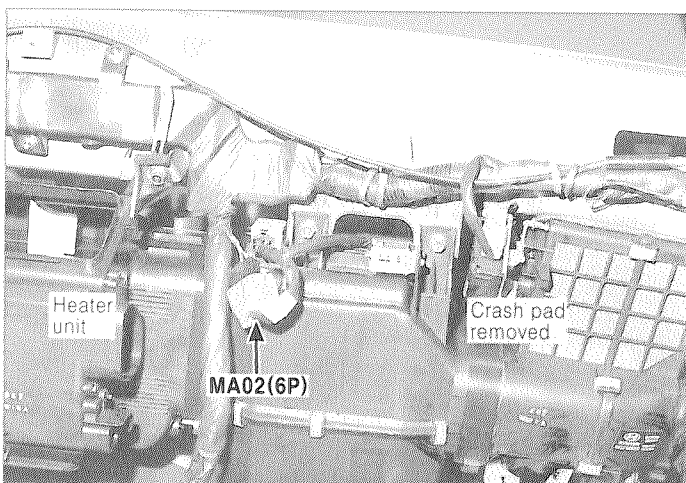
M89

E3XC001Y



M76,M77,M78,M79,M80,M82,M83,M84

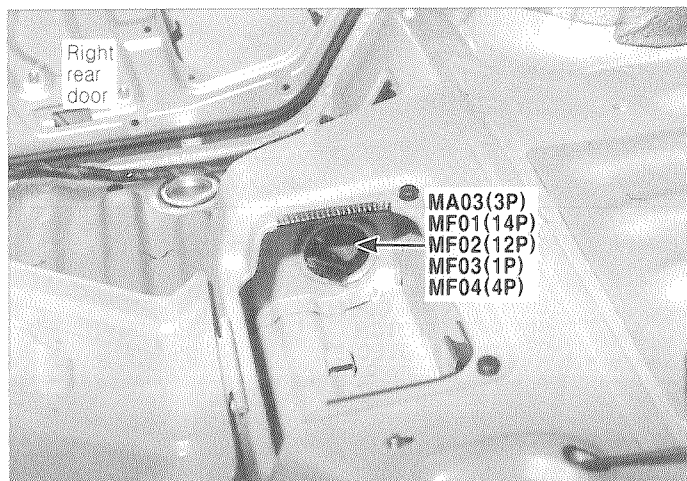
E3XC001W



MA02

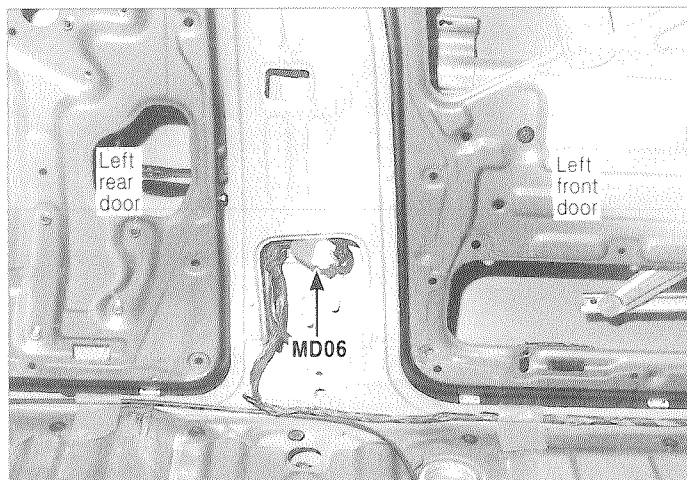
E3XC001Z

BODY HARNESS(5)



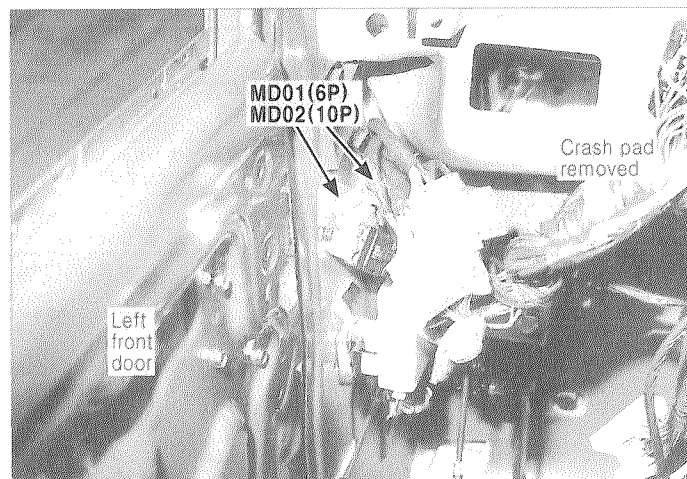
MA03,MF01,MF02,MF03,MF04

E3XC0A1A



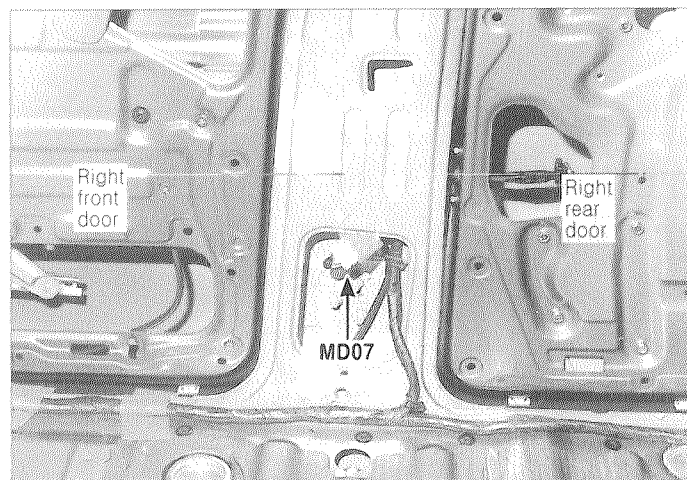
MD06

E3XC0A1D



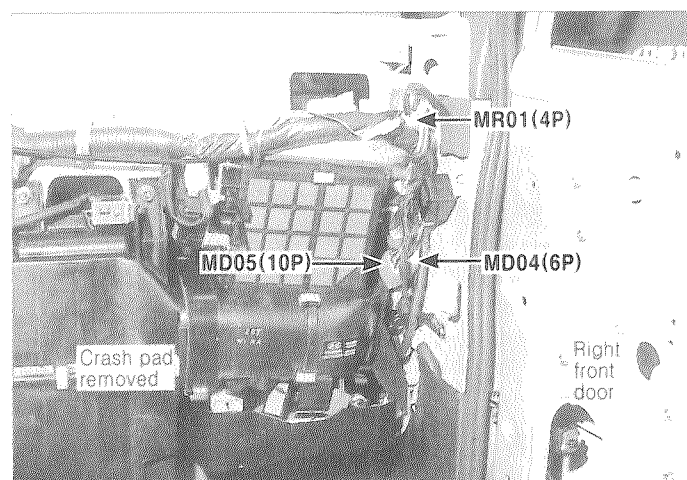
MD01,MD02

E3XC0A1B



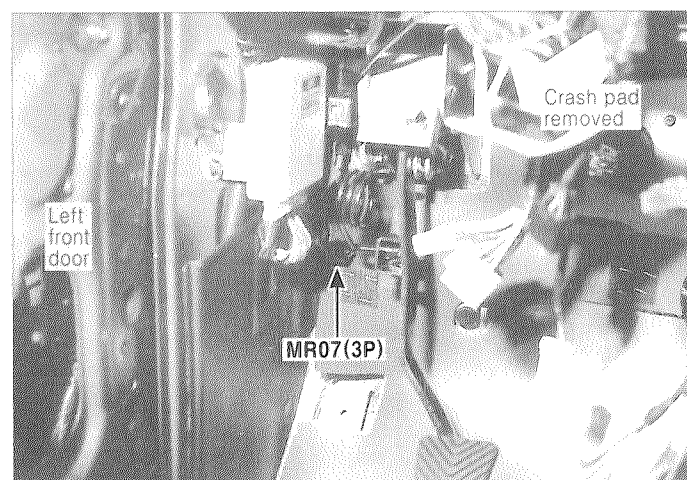
MD07

E3XC0A1E



MD04,MD05,MR01

E3XC0A1C

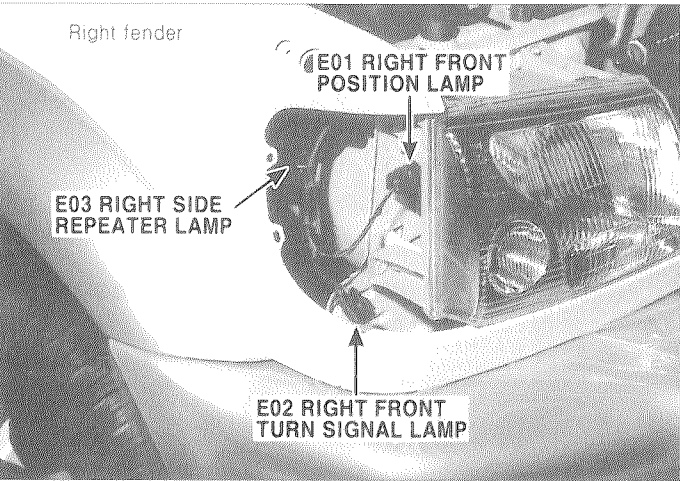


MR07

E3XC0A1F

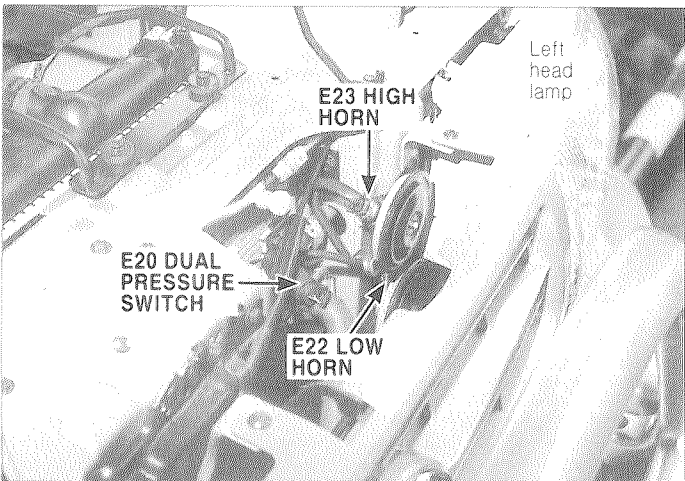
FRONT HARNESS

FRONT HARNESS(1)



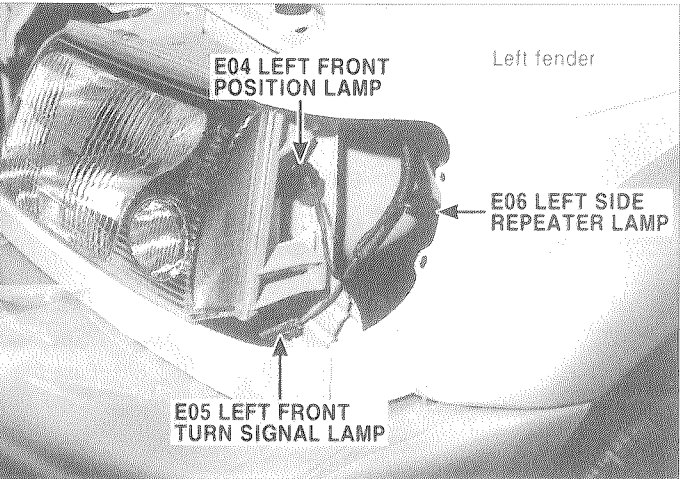
E01,E02,E03

E3XC002A



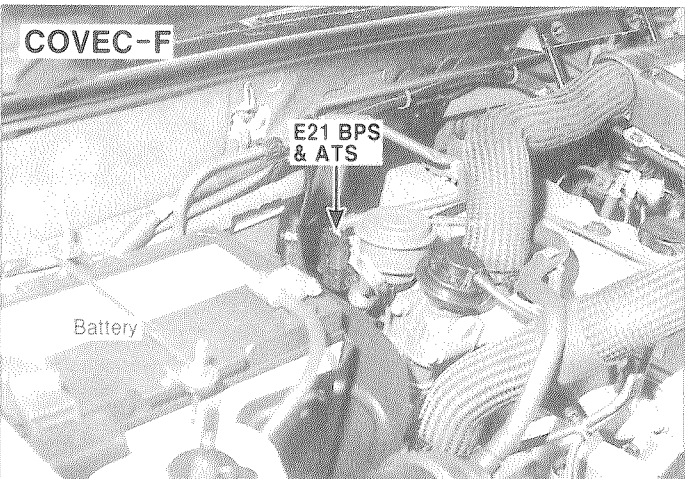
E20,E22,E23

E3XC002D



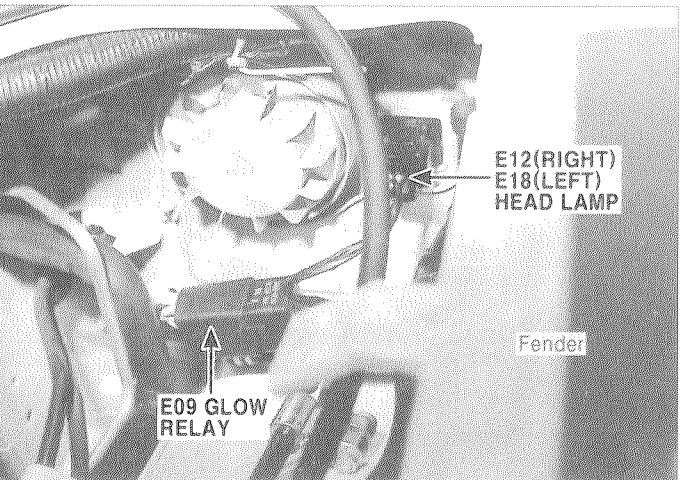
E04,E05,E06

E3XC002B



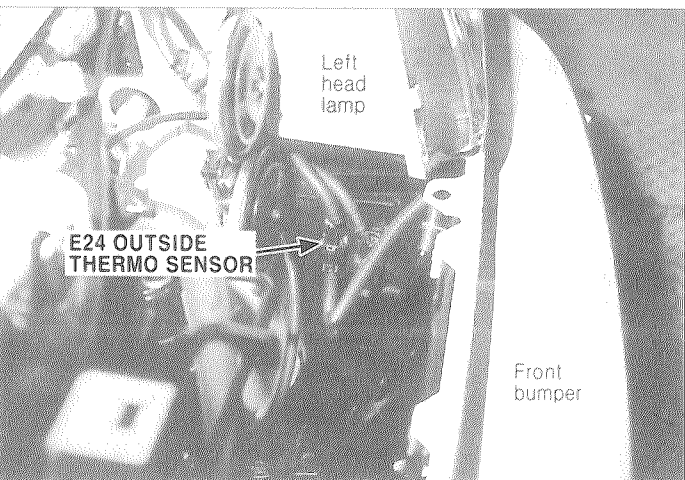
E21

E3XC002E



E09,E12,E18

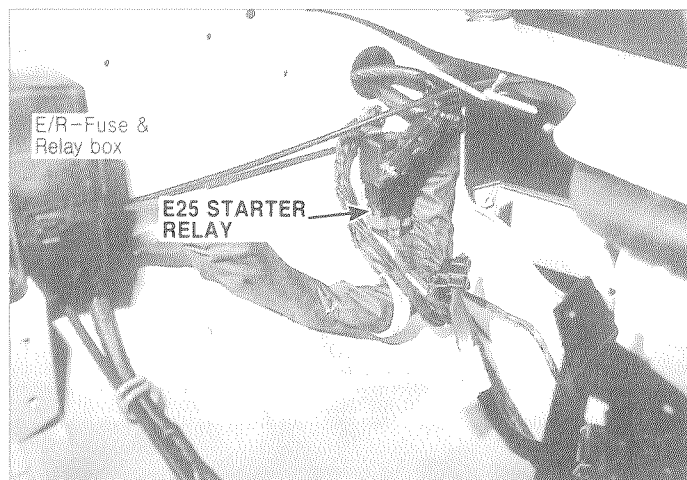
E3XC002C



E24

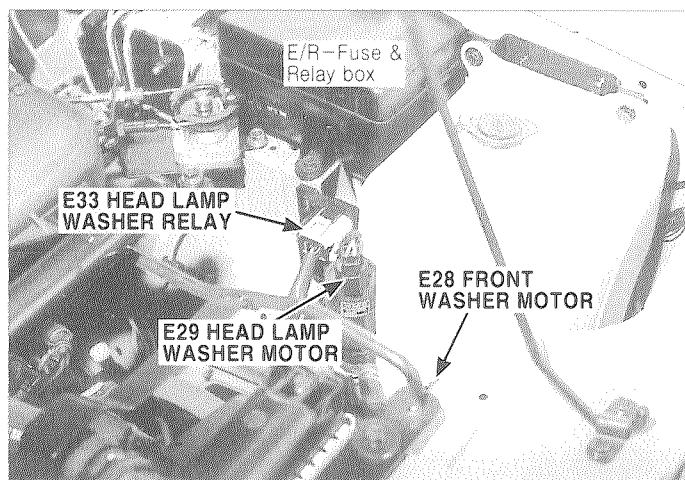
E3XC002F

FRONT HARNESS(2)



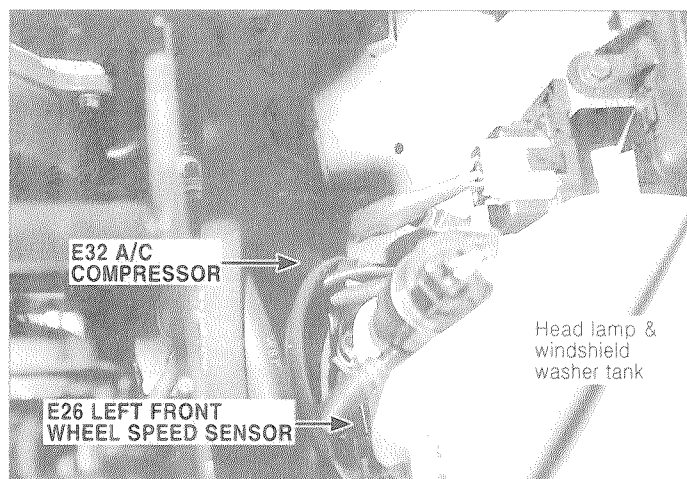
E25

E3XC002G



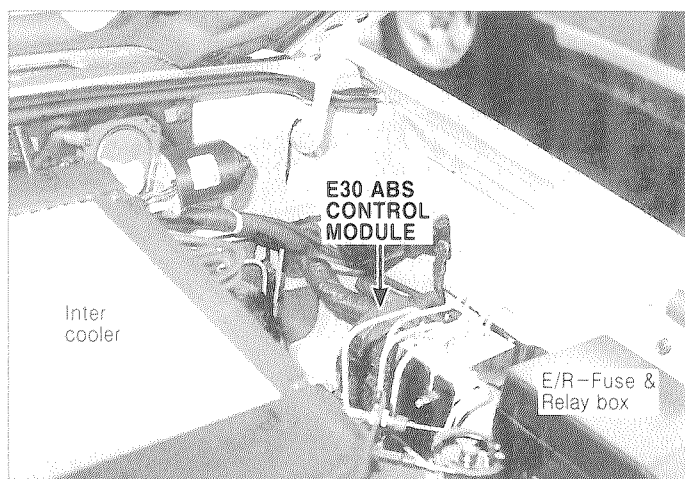
E28,E29,E33

E3XC002K



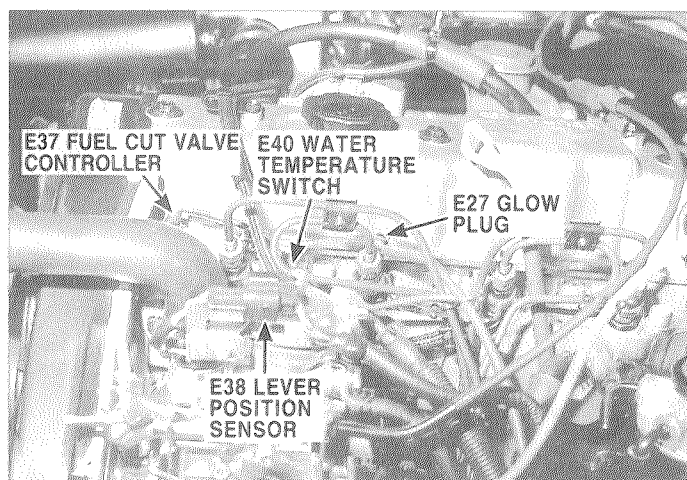
E26,E32

E3XC002H



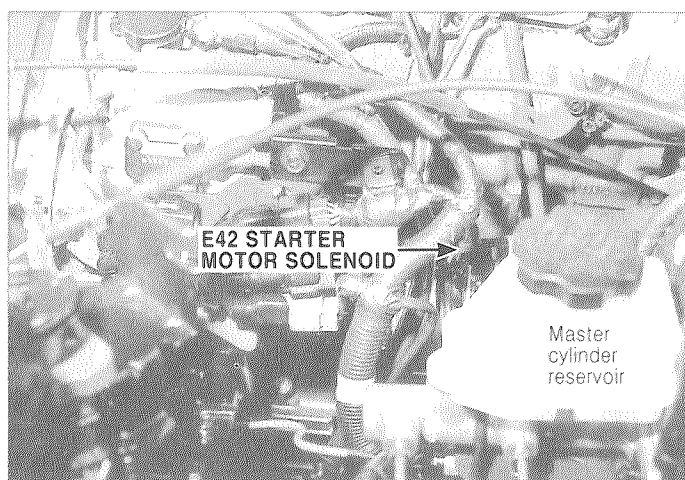
E30

E3XC002L



E27,E37,E38,E40

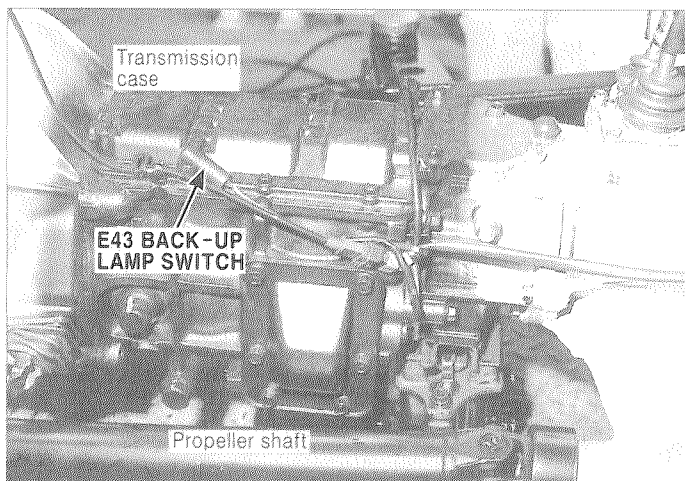
E3XC002J



E42

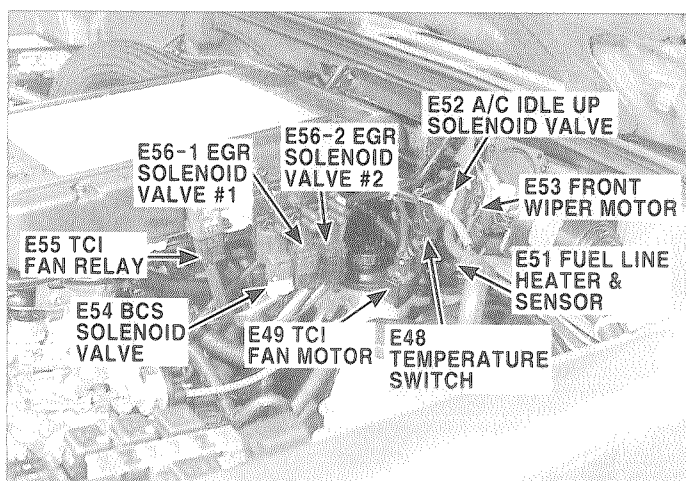
E3XC002M

FRONT HARNESS(3)

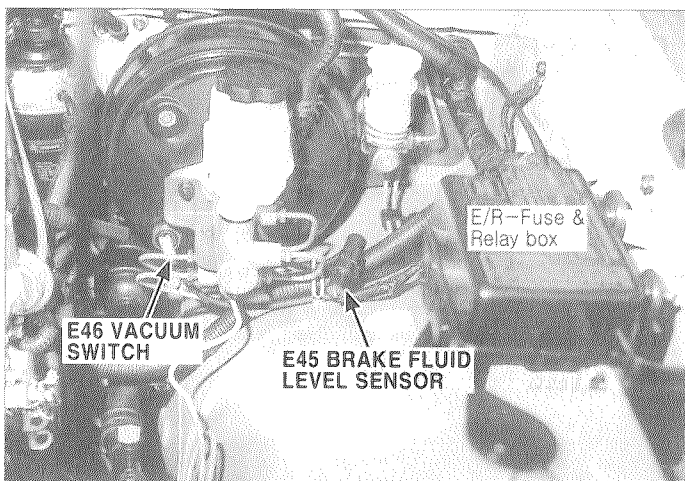


E43

E3XC002N

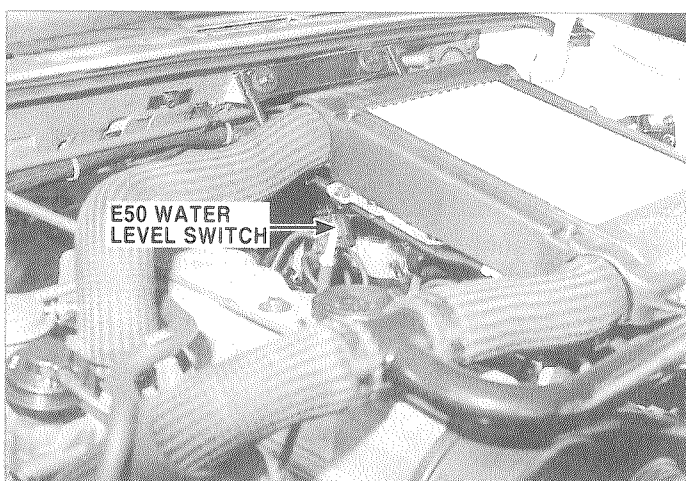
E48, E49, E51, E52, E53
E54, E55, E56-1, E56-2

E3XC002R



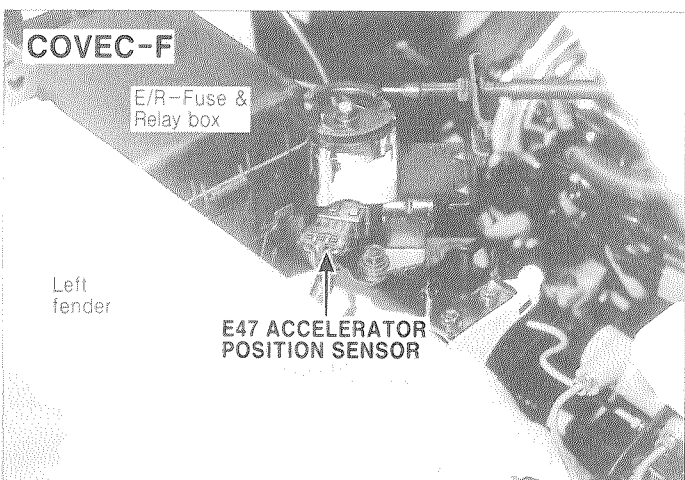
E45, E46

E3XC002P



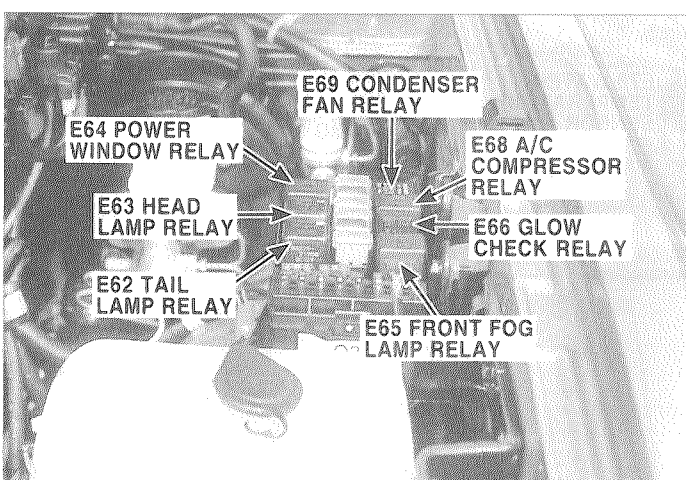
E50

E3XC002S



E47

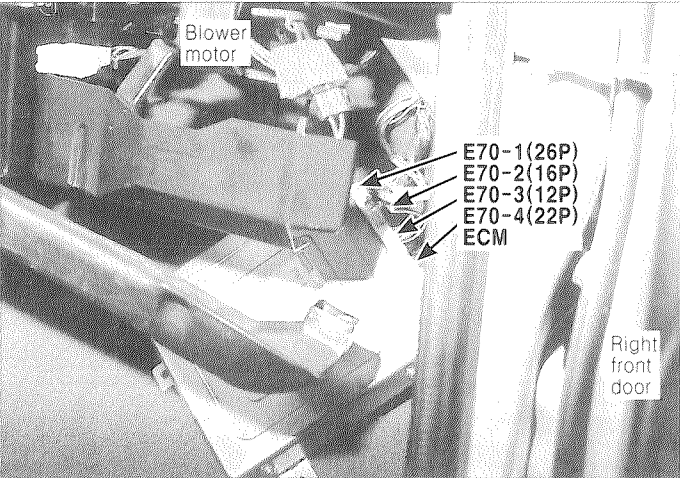
E3XC002Q



E62, E63, E64, E65, E66, E68, E69

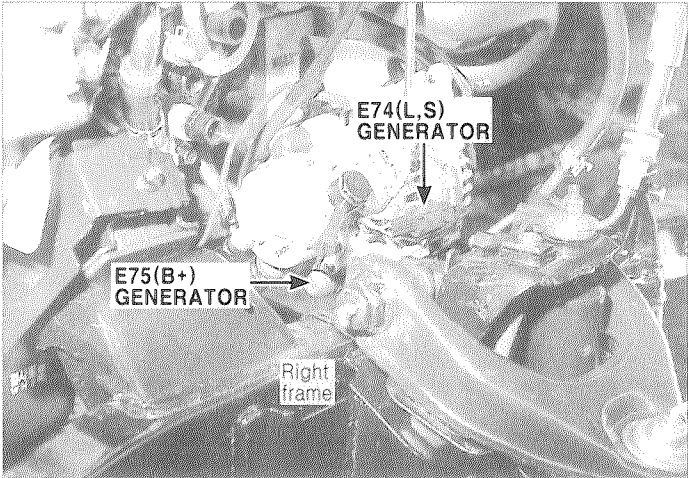
E3XC002T

FRONT HARNESS(4)



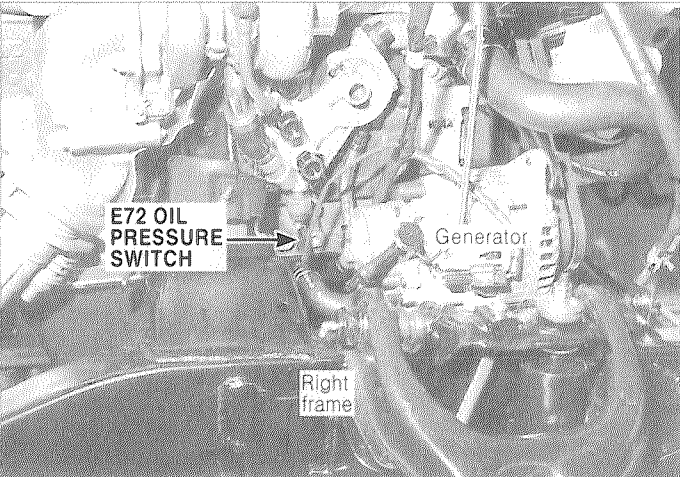
E70-1,E70-2,E70-3,E70-4

E3XC002U



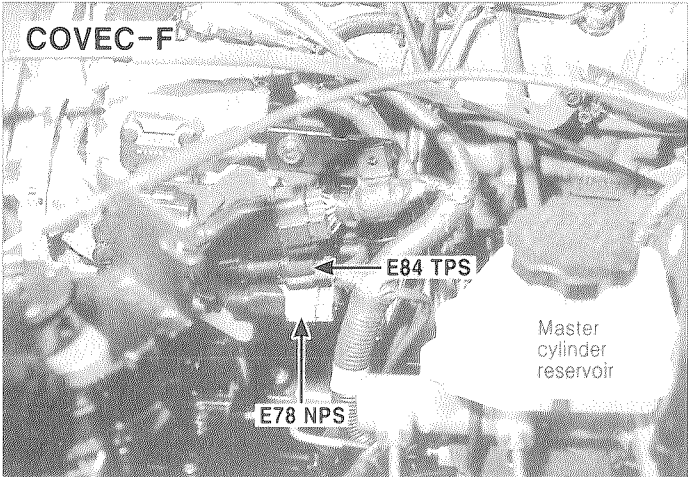
E74,E75

E3XC002X



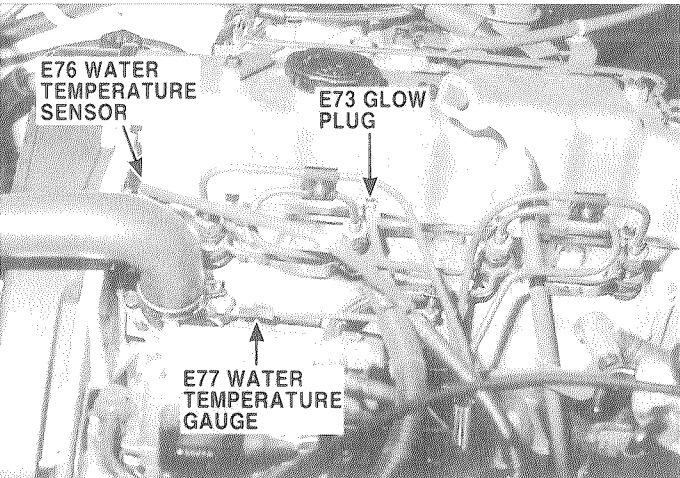
E72

E3XC002V



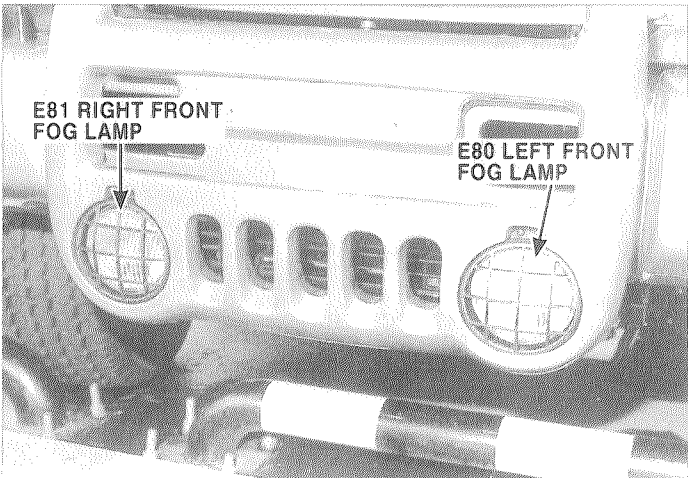
E78,E84

E3XC002Y



E73,E76,E77

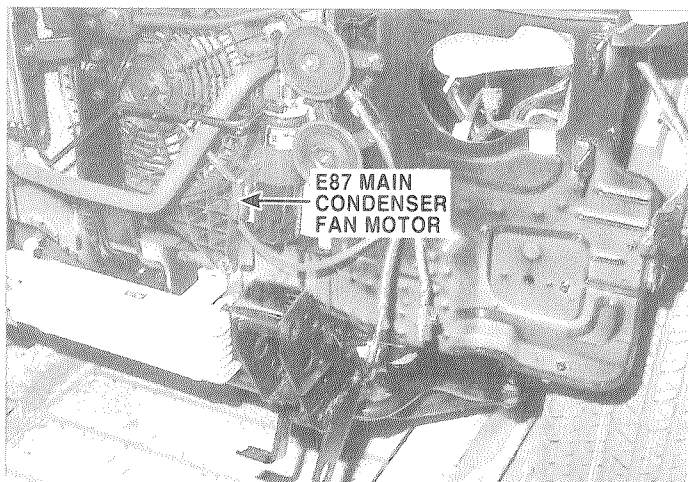
E3XC002W



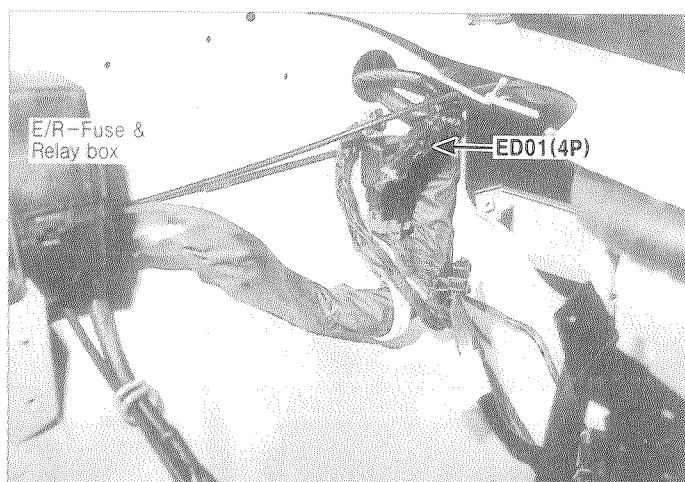
E80,E81

E3XC002Z

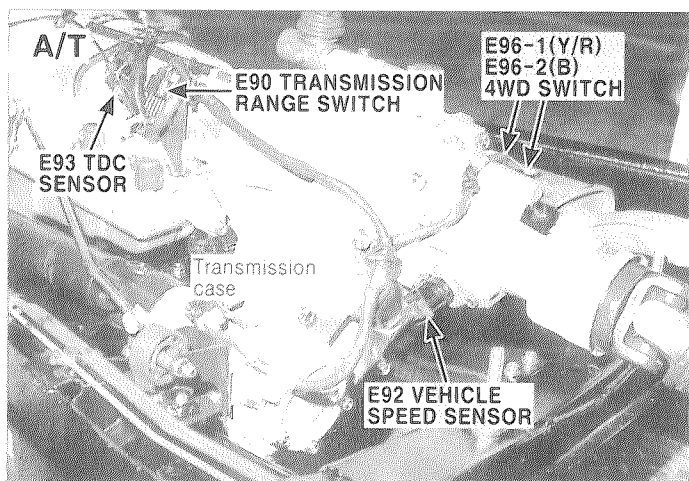
FRONT HARNESS(5)

**E87**

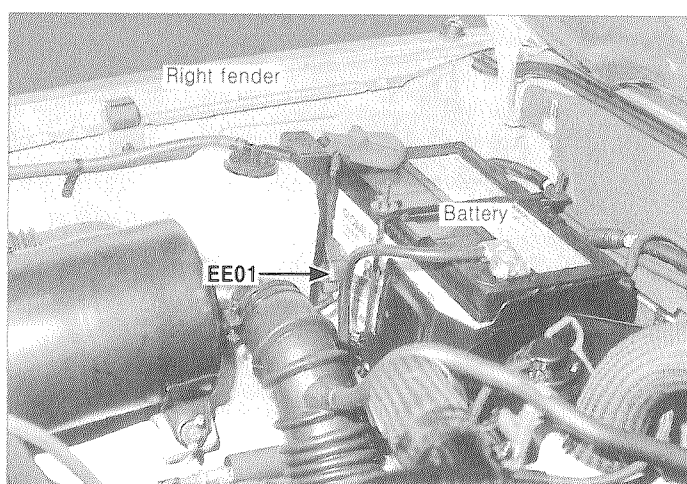
E3XC0A2A

**ED01**

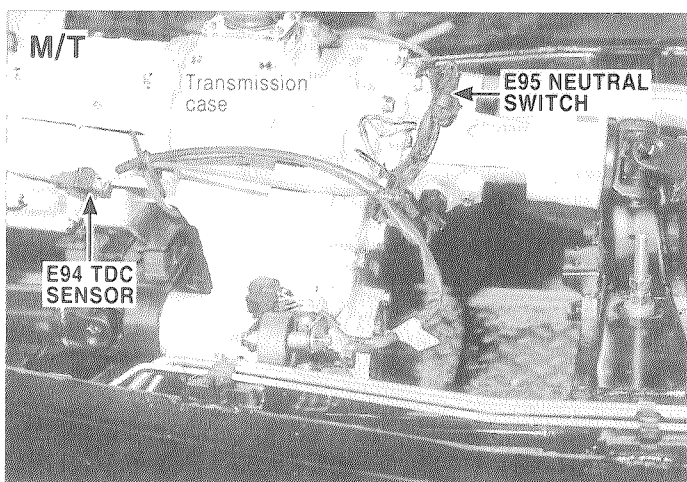
E3XC0A2D

**E90,E92,E93,E96-1,E96-2**

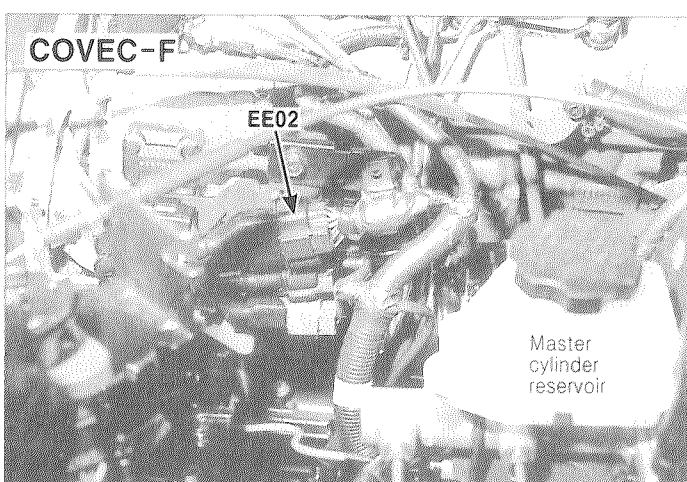
E3XC0A2B

**EE01**

E3XC0A2E

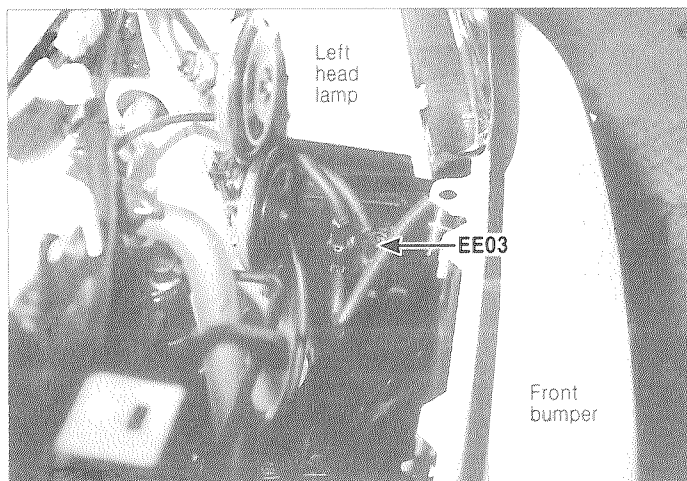
**E94,E95**

E3XC0A2C

**EE02**

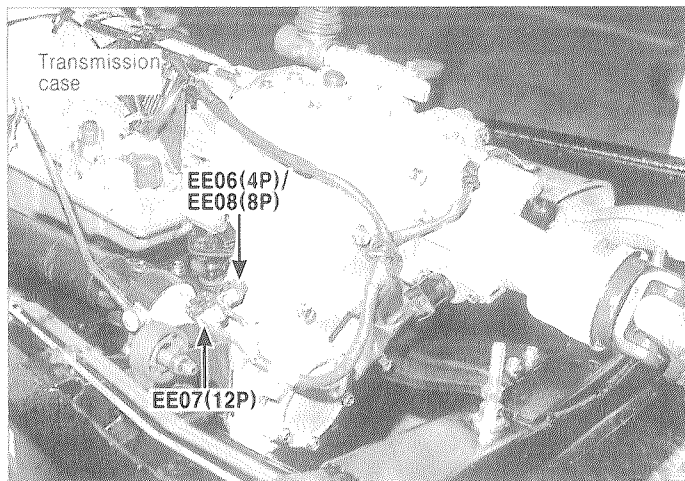
E3XC0A2F

FRONT HARNESS(6)



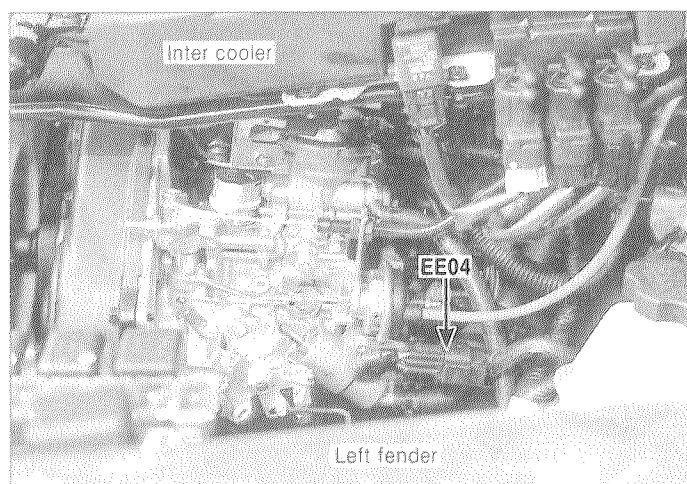
EE03

E3XC0A2G



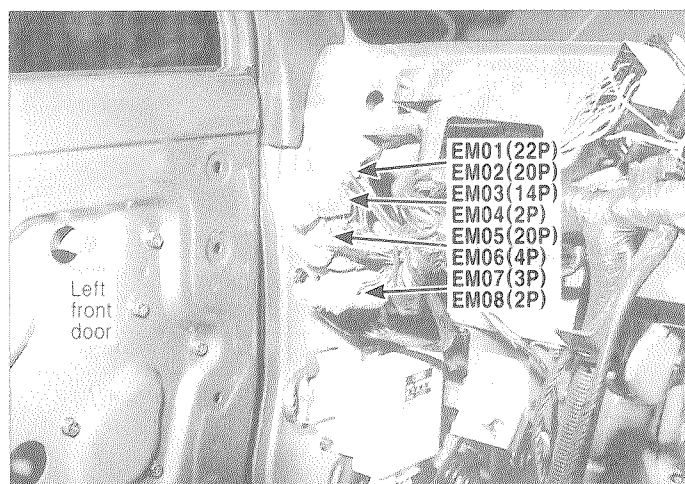
EE06,EE07,EE08

E3XC0A2K

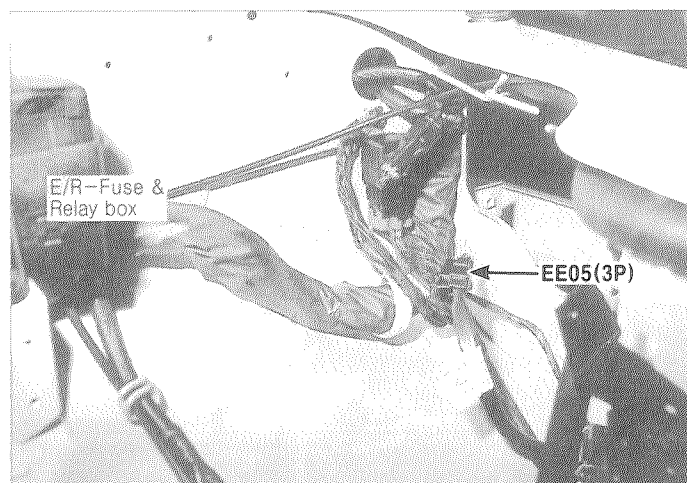


EE04

E3XC0A2H

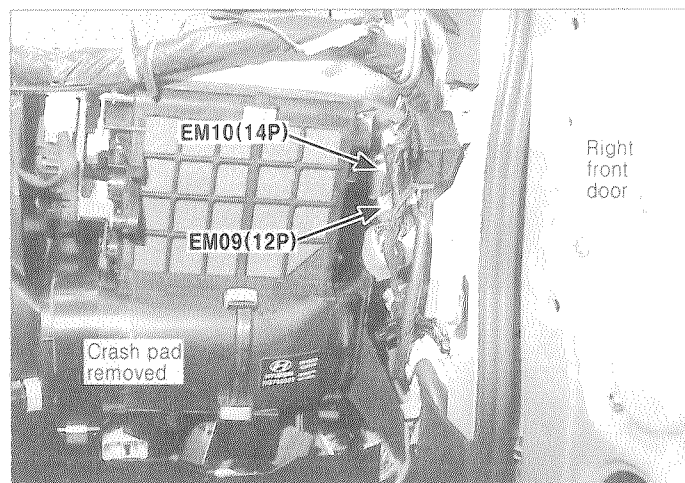
EM01,EM02,EM03,EM04
EM05,EM06,EM07,EM08

E3XC0A2L



EE05

E3XC0A2J

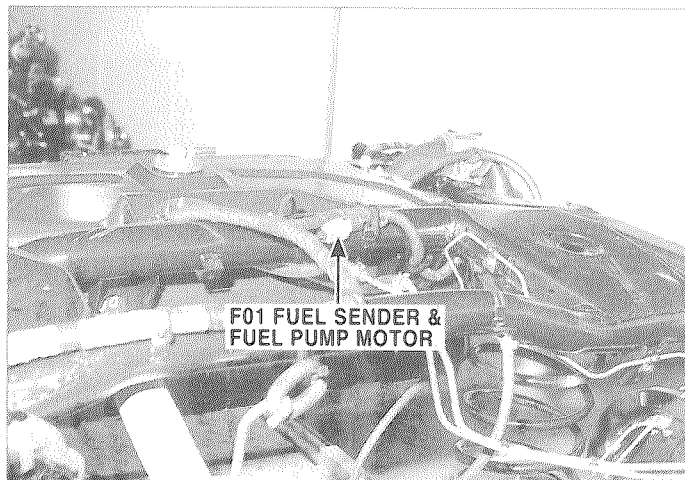


EM09,EM10

E3XC0A2M

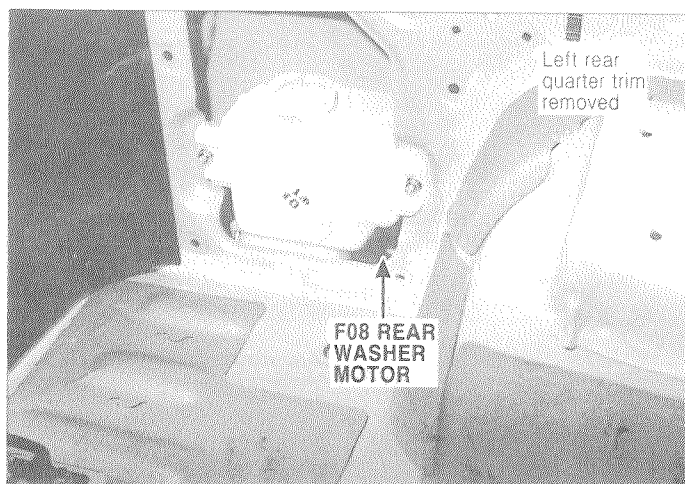
FRAME HARNESS

FRAME HARNESS(1)



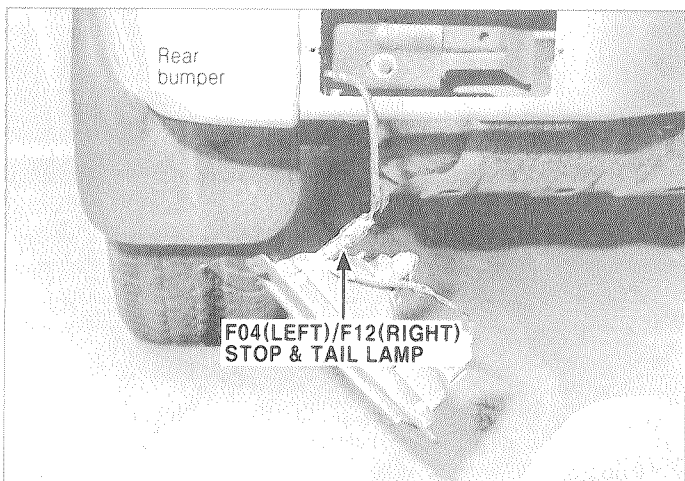
F01

E3XC003A



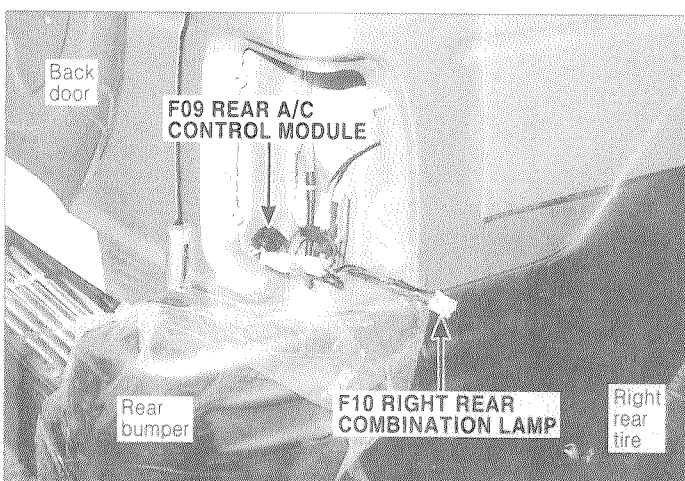
F08

E3XC003D



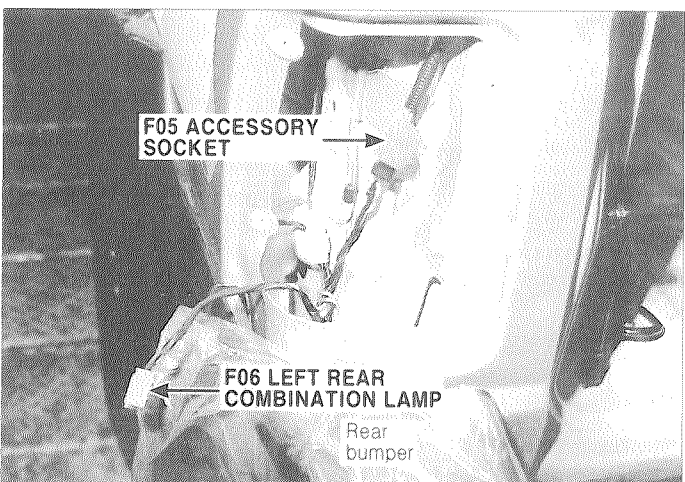
F04,F12

E3XC003B



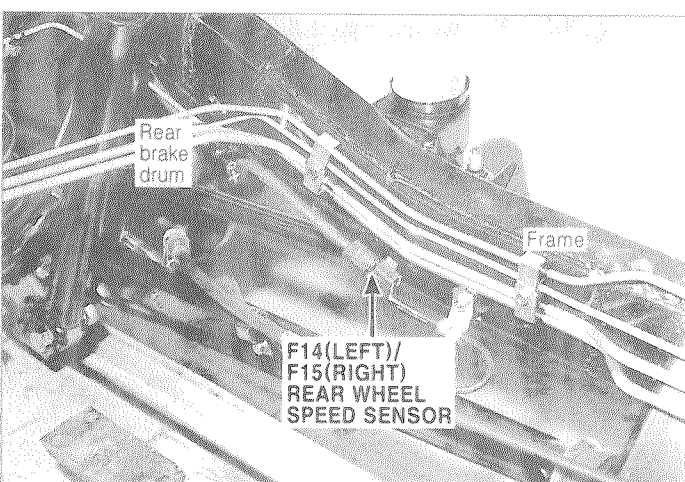
F09,F10

E3XC003E



F05,F06

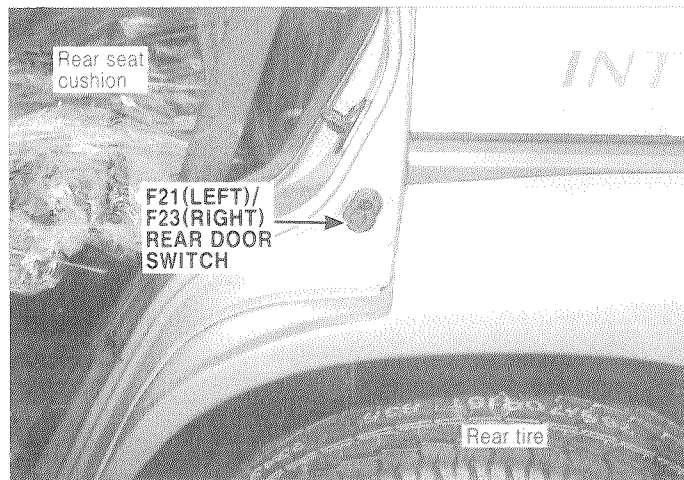
E3XC003C



F14,F15

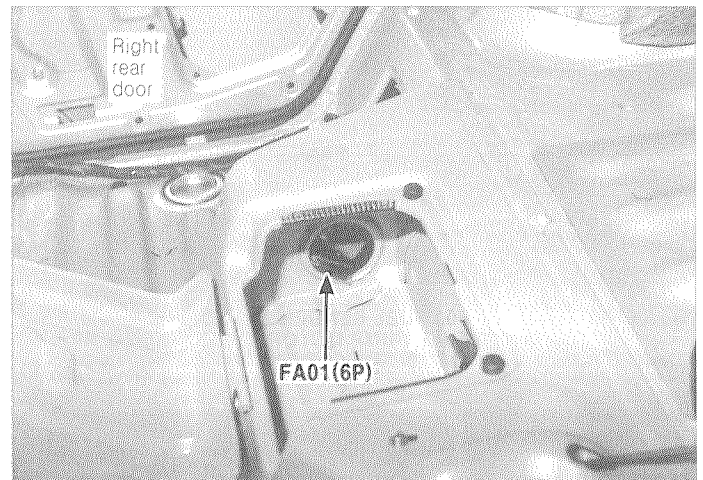
E3XC003F

FRAME HARNESS(2)



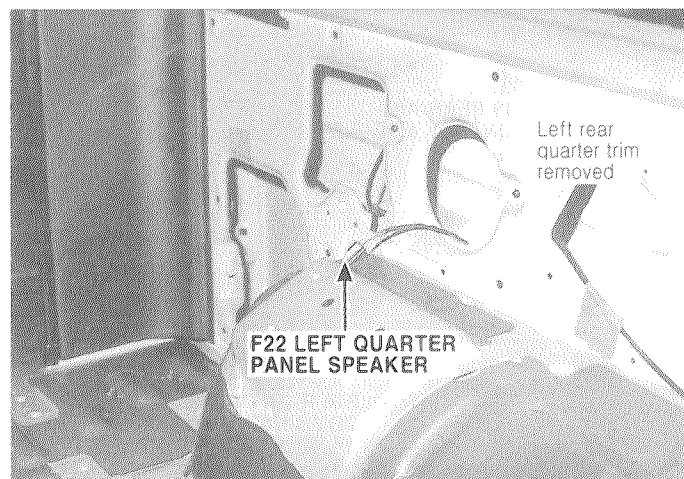
F21,F23

E3XC003G



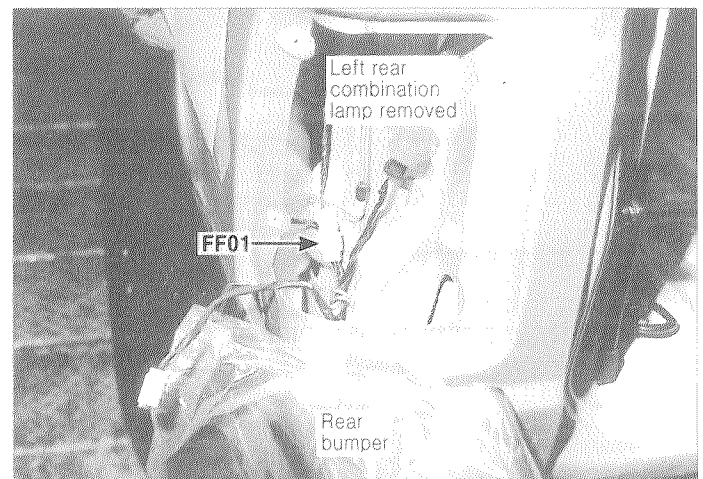
FA01

E3XC003K



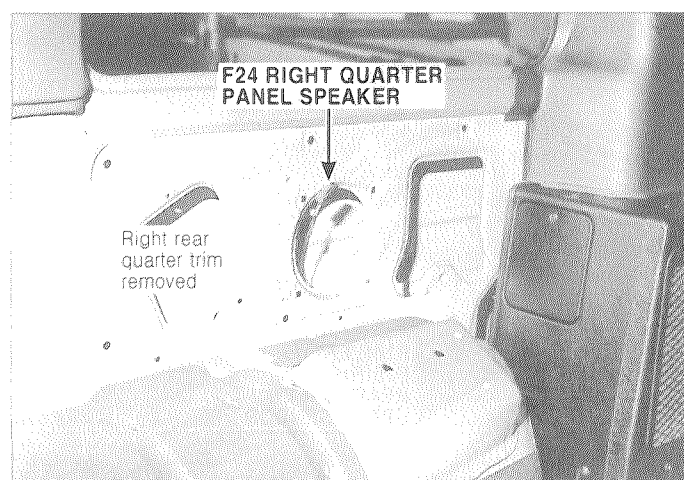
F22

E3XC003H



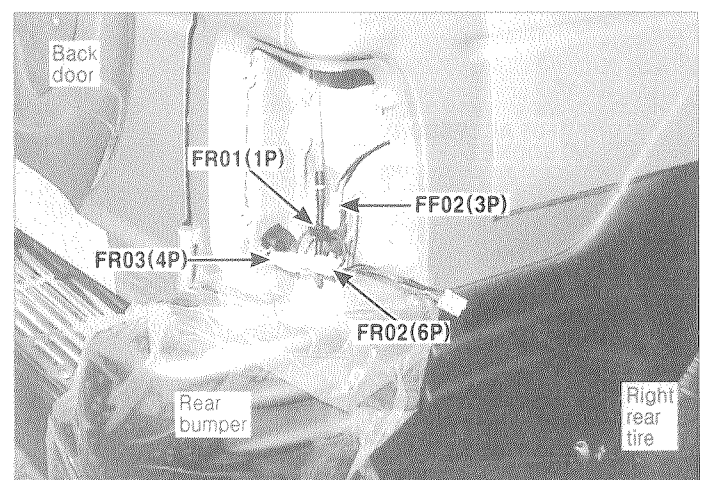
FF01

E3XC003L



F24

E3XC003J



FF02,FR01,FR02,FR03

E3XC003M

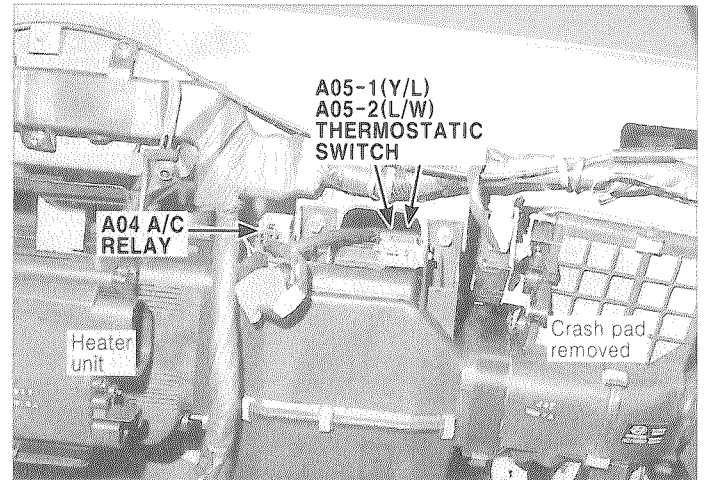
AIR BAG & A/C HARNESS

AIR BAG & A/C HARNESS(1)



A02

E3XC004A

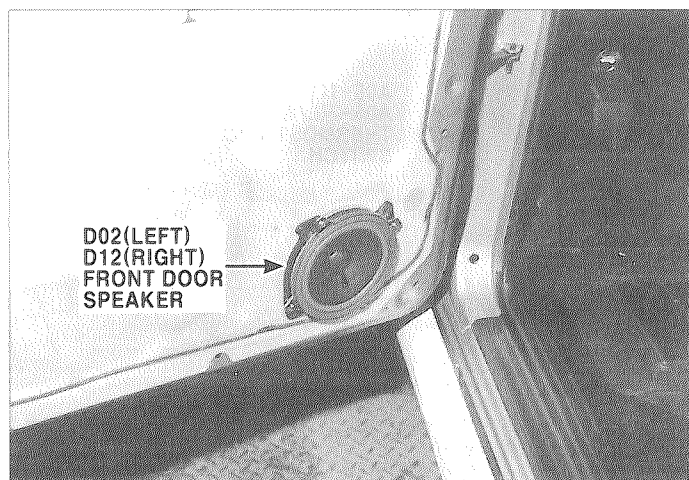


A04,A05-1,A05-2

E3XC004B

DOOR HARNESS

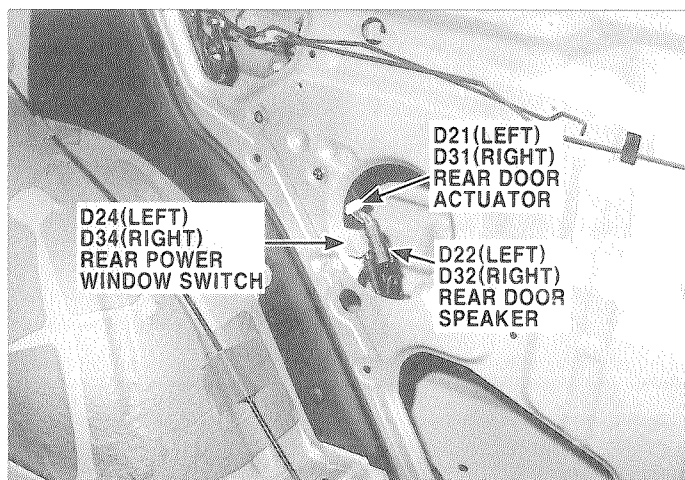
DOOR HARNESS(1)



D02(LEFT)
D12(RIGHT)
FRONT DOOR
SPEAKER

D02,D12

E3XC005A



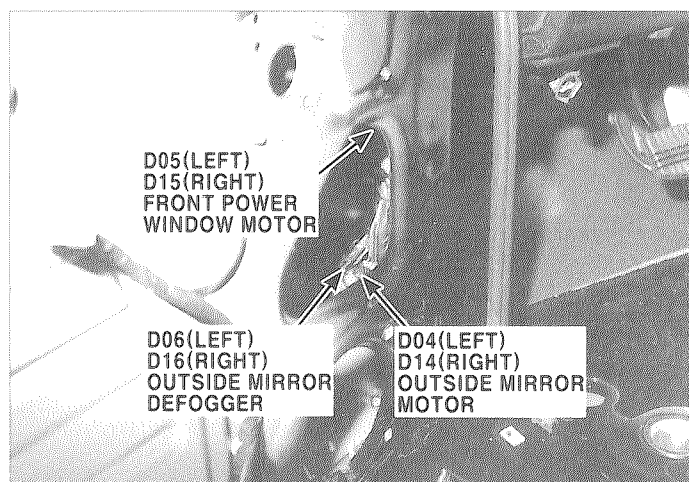
D21(LEFT)
D31(RIGHT)
REAR DOOR
ACTUATOR

D24(LEFT)
D34(RIGHT)
REAR POWER
WINDOW SWITCH

D22(LEFT)
D32(RIGHT)
REAR DOOR
SPEAKER

D21,D22,D24,D31,D32,D34

E3XC005D



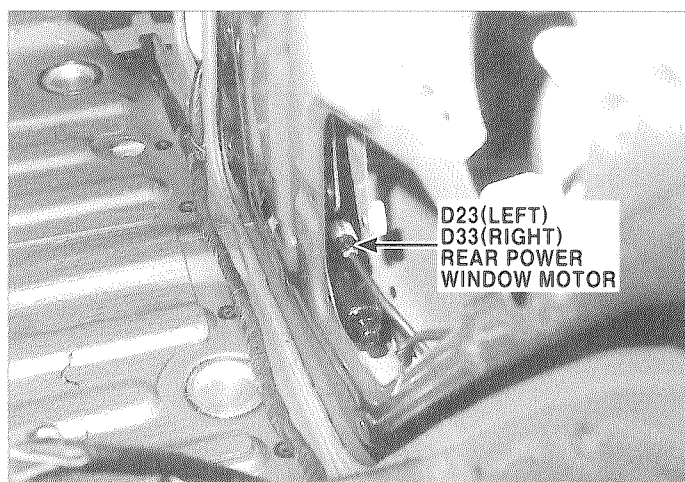
D05(LEFT)
D15(RIGHT)
FRONT POWER
WINDOW MOTOR

D06(LEFT)
D16(RIGHT)
OUTSIDE MIRROR
DEFOGGER

D04(LEFT)
D14(RIGHT)
OUTSIDE MIRROR
MOTOR

D04,D05,D06,D14,D15,D16

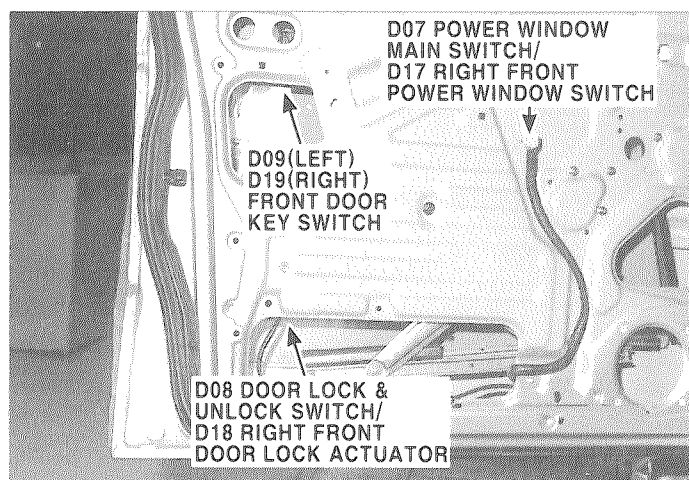
E3XC005B



D23(LEFT)
D33(RIGHT)
REAR POWER
WINDOW MOTOR

D23,D33

E3XC005E



D07 POWER WINDOW
MAIN SWITCH/
D17 RIGHT FRONT
POWER WINDOW SWITCH

D09(LEFT)
D19(RIGHT)
FRONT DOOR
KEY SWITCH

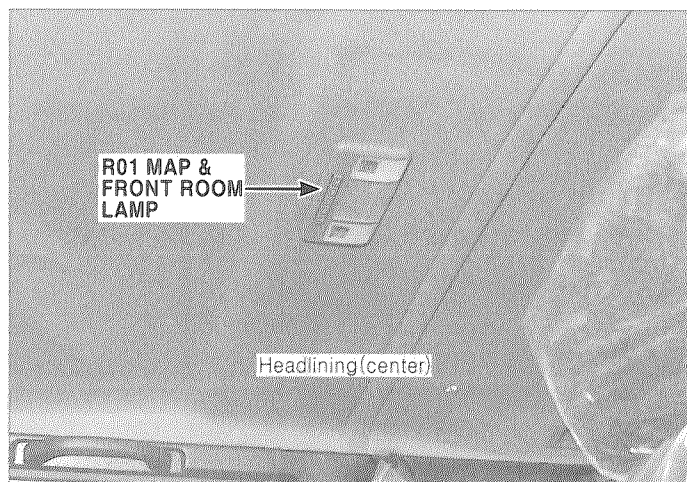
D08 DOOR LOCK &
UNLOCK SWITCH/
D18 RIGHT FRONT
DOOR LOCK ACTUATOR

D07,D08,D09,D17,D18,D19

E3XC005C

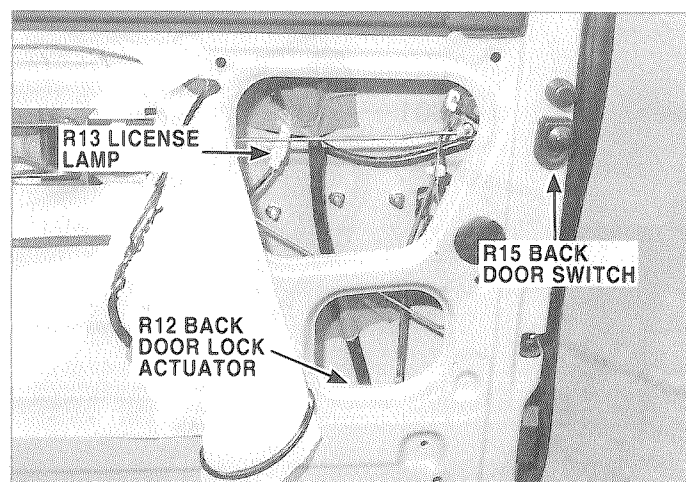
ROOF & BACK DOOR HARNESS

ROOF & BACK DOOR HARNESS(1)



R01

E3XC006A



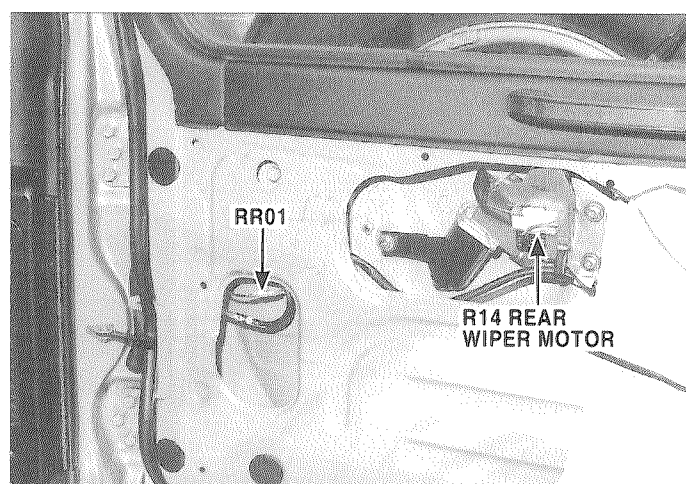
R12,R13,R15

E3XC006D



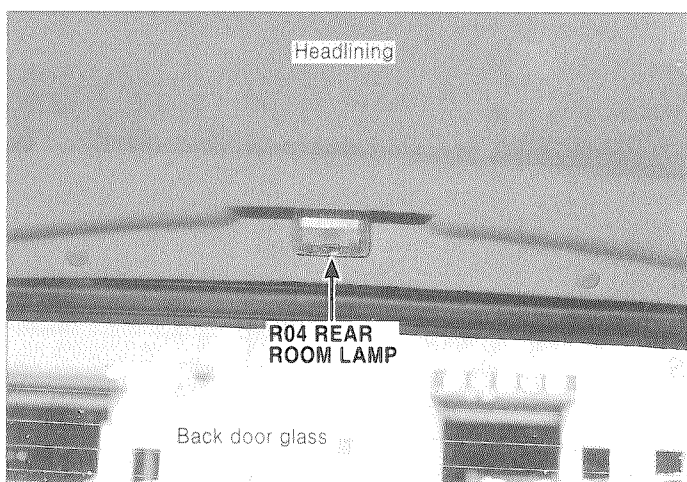
R02

E3XC006B



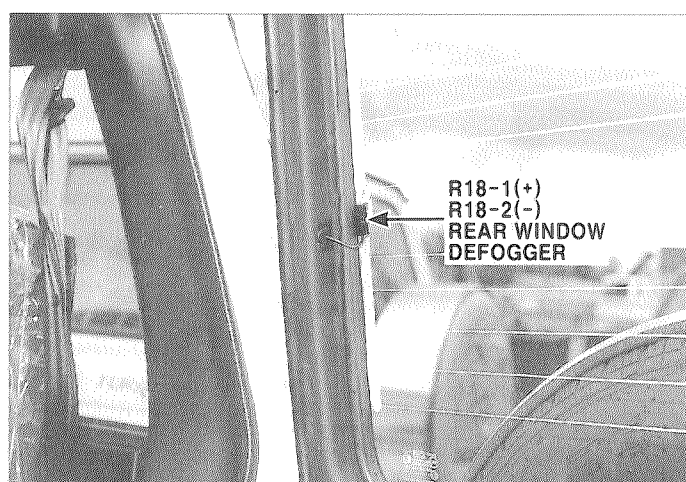
R14,RR01

E3XC006E



R04

E3XC006C

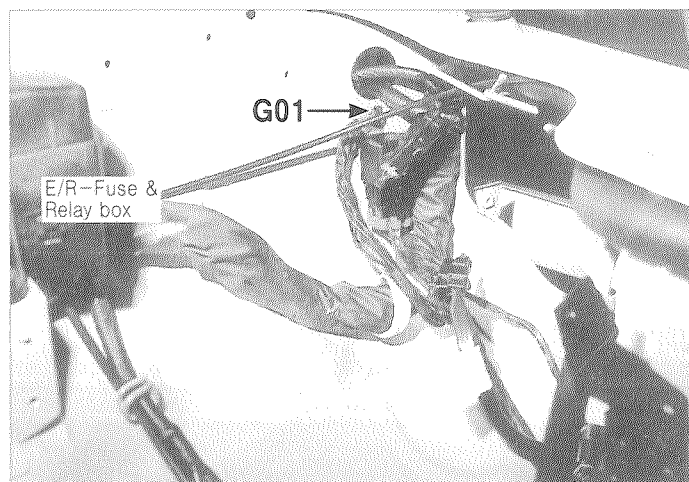


R18-1,R18-2

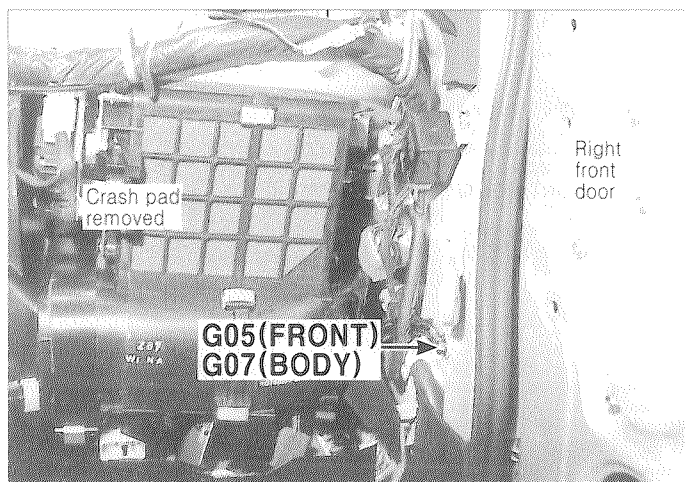
E3XC006F

GROUNDS

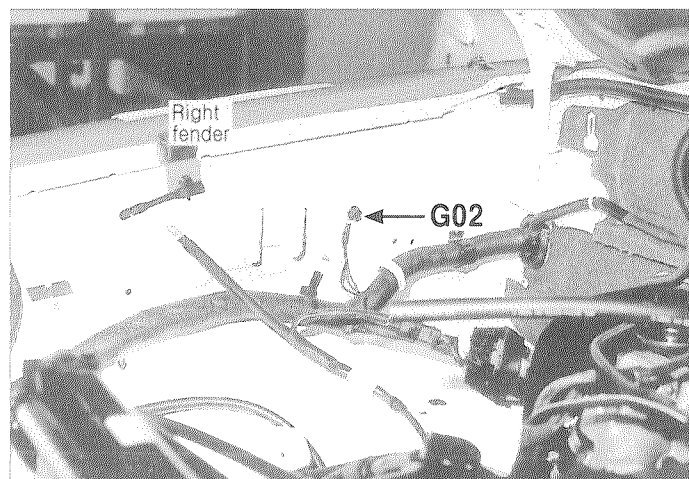
GROUNDS(1)

**G01**

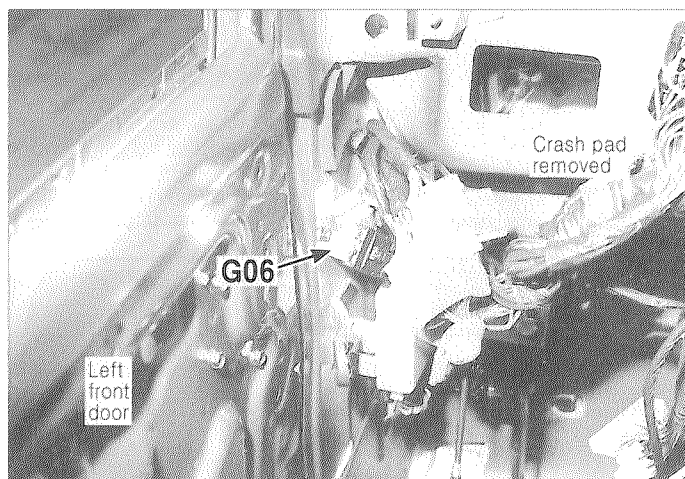
E3XC007A

**G05, G07**

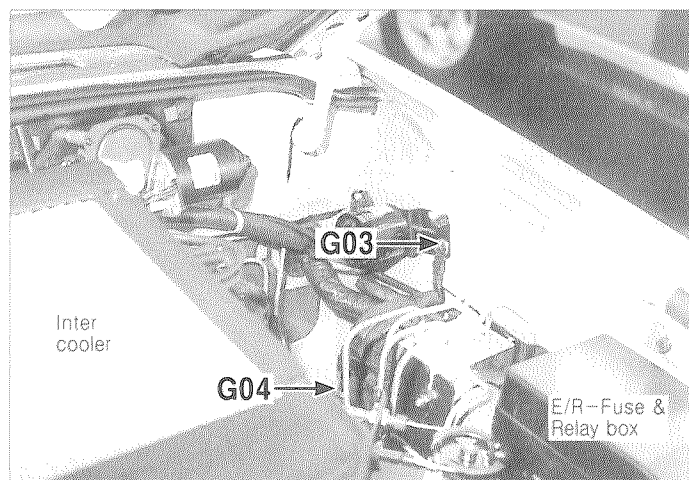
E3XC007D

**G02**

E3XC007B

**G06**

E3XC007E

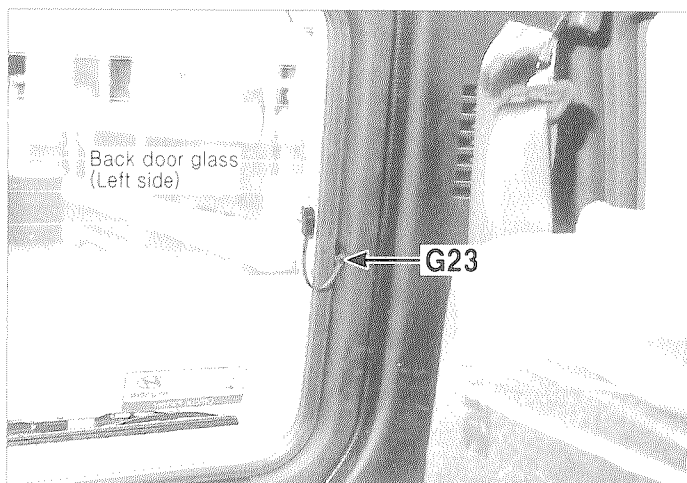
**G03, G04**

E3XC007C

**G08**

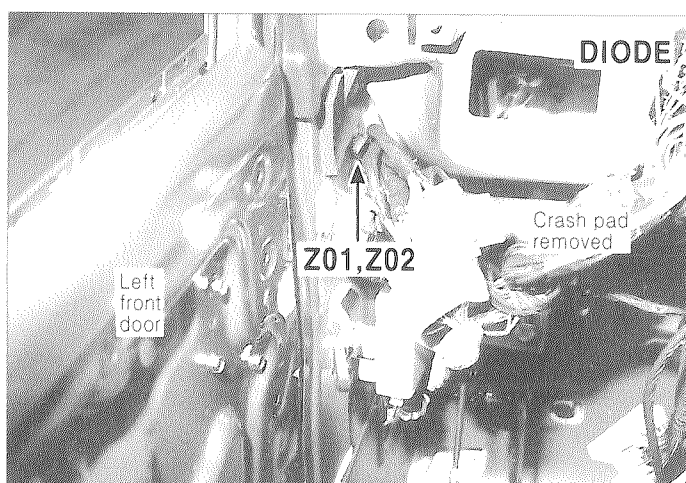
E3XC007F

GROUNDS(2)



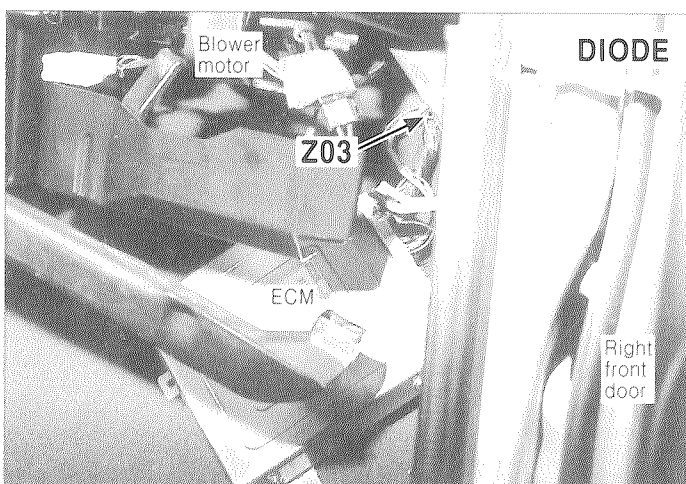
G23

E3XC007G



Z01, Z02

E3XC008A

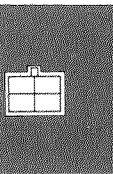


Z03

E3XC008B

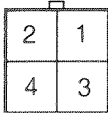

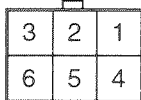
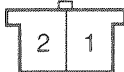
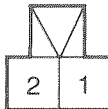

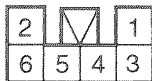
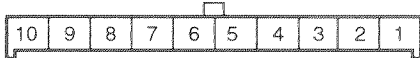
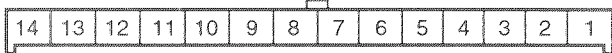
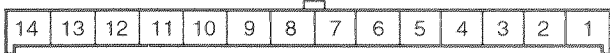
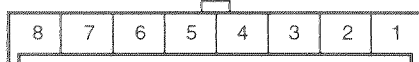
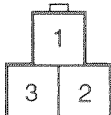


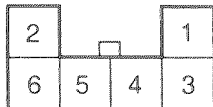
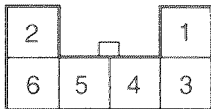
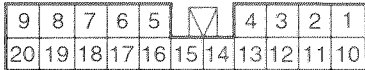
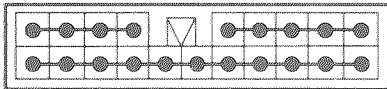
CONNECTOR CONFIGURATIONS

AIR BAG & A/C HARNESS	CC-16
BODY HARNESS	CC-2
DOOR HARNESS	CC-17
FRAME HARNESS	CC-14
FRONT HARNESS	CC-8
ROOF & BACK DOOR HARNESS	CC-18



BODY HARNESS E4XC0010

BODY HARNESS (1)

<div>M01-1</div> <div></div> <div>CR04F001</div>	<div>M01-2</div> <div></div> <div>CR21F001</div>		<div>M02</div> <div></div> <div>CR06F002</div>
<div>M04</div> <div></div> <div>CR02F096</div>	<div>M05</div> <div></div> <div>CR02F011</div>	<div>M08</div> <div></div> <div>CR02F051</div>	<div>M09</div> <div></div> <div>CR06F005</div>
<div>M10-1</div> <div></div> <div>CR10F005</div>		<div>M10-2</div> <div></div> <div>CR14F007</div>	
<div>M10-3</div> <div></div> <div>CR14F007</div>		<div>M10-4</div> <div></div> <div>CR08F002</div>	
<div>M12</div> <div></div> <div>CR03F005</div>	<div>M14</div> <div></div> <div>CR08F003</div>	<div>M15</div> <div></div> <div>CR10F003</div>	<div>M16</div> <div></div> <div>CR06F003</div>
<div>M18</div> <div></div> <div>CR06F003</div>	<div>M19</div> <div> </div> <div>CR20B018</div>		<div>BLANK</div>

BODY HARNESS (2)

<div>M20</div> 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BODY HARNESS (3)

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BODY HARNESS (4)

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BODY HARNESS (5)

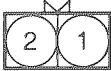
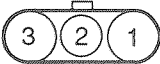

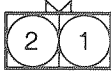

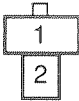
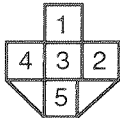
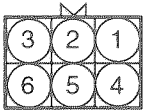
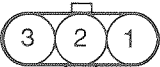
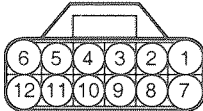
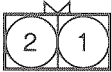
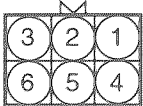
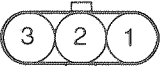
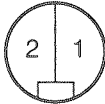
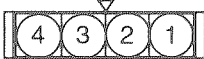
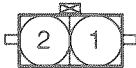

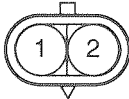
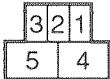
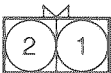

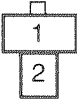
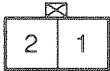
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BODY HARNESS (6)

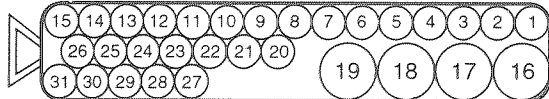

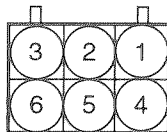

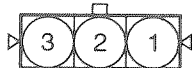
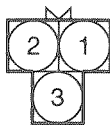


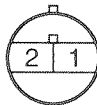



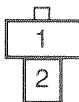
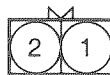
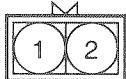
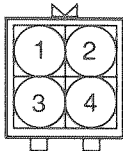
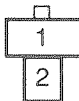
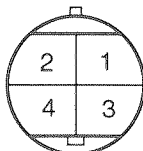

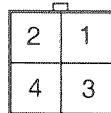

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FRONT HARNESS E4XC0020

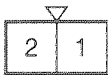
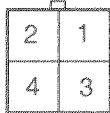
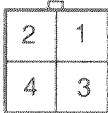
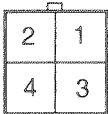
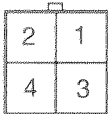

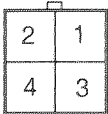
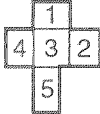
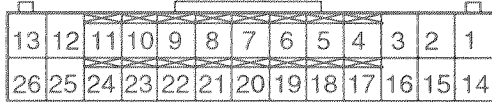


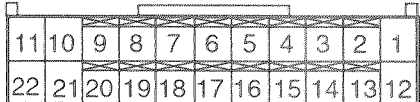





FRONT HARNESS (1)

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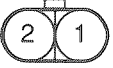
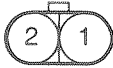
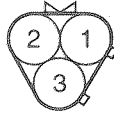
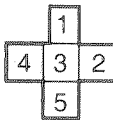
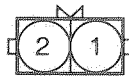
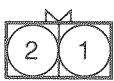
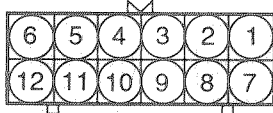
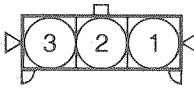
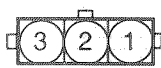
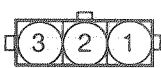



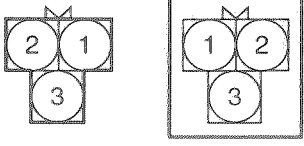
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FRONT HARNESS (3)

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<div>E70-4</div> <div></div> <div>CR22F004</div>		<div>BLANK</div>	<div>E72</div> <div></div> <div>CR01F006</div>
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FRONT HARNESS (4)

E77  CR01F006	E78  CR03F047	BLANK	E80  CR02F001
E81  CR02F001	BLANK	E84  CR03F020	E85  CR05F012
BLANK	E87  CR02F018	E88  CR02F013	BLANK
E90  CR12F011		BLANK	E92  CR03F023
E93  CR03F003	E94  CR03F003	E95  CR02F040	E96-1  CR01F016
E96-2  CR01F016	BLANK	EE01  CR03B004	

FRONT HARNESS (5)

<div>EE02</div> <div></div> <div>CR12B008</div>	<div>EE03</div> <div></div> <div>CR02B011</div>
<div>EE04</div> <div></div> <div>CR06B001</div>	<div>EE05</div> <div></div> <div>CR03B002</div>
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<div>EE08</div> <div></div> <div>CR08B004</div>	<div>ED01</div> <div></div> <div>CR04B012</div>
<div>EM01</div> <div></div> <div>CR22B002</div>	<div>EM02</div> <div></div> <div>CR20B006</div>
<div>EM03</div> <div></div> <div>CR14B002</div>	<div>EM04</div> <div></div> <div>CR02B004</div>

FRONT HARNESS (6)

EM05

9	8	7	6	5		4	3	2	1	
20	19	18	17	16	15	14	13	12	11	10

1	2	3	4		5	6	7	8	9	
10	11	12	13	14	15	16	17	18	19	20

CR20B004

EM06

4	3	2	1
---	---	---	---

1	2	3	4
---	---	---	---

CR04B005

EM07

1	
3	2

1	
2	3

CR03B002

EM08

2	1
---	---

1	2
---	---

CR02B004

EM09

5	4	3		2	1	
12	11	10	9	8	7	6

1	2		3	4	5	
6	7	8	9	10	11	12

CR12B007

EM10

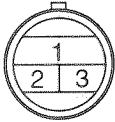

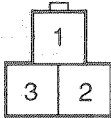
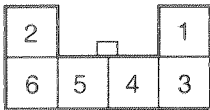
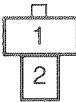




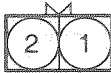






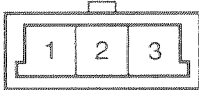

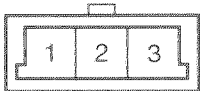



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14	13	12	11	10	9	8	7

1	2	3		4	5	6	
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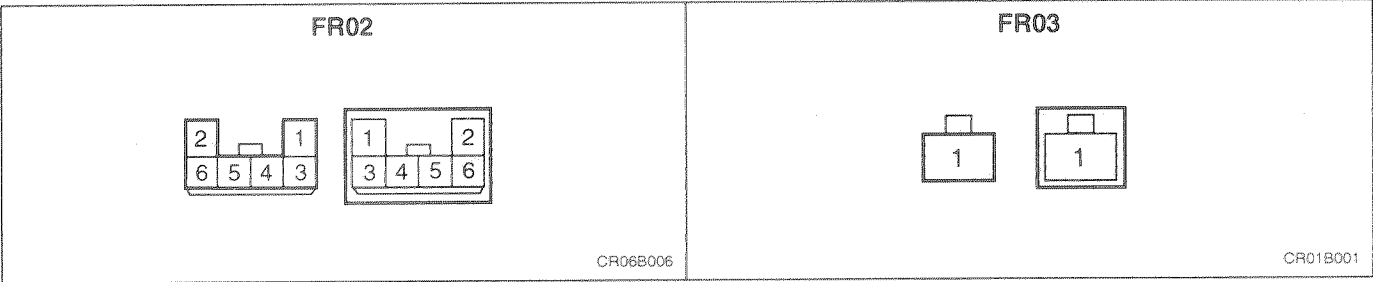
CR14B018

FRAME HARNESS E4XC0030

FRAME HARNESS (1)

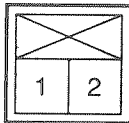
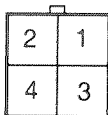


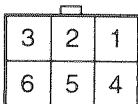
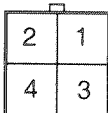
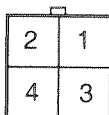
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<div>F06</div> <div></div> <div>CR06F003</div>	<div>F08</div> <div></div> <div>CR02F012</div>	<div>F09</div> <div></div> <div>CR06F002</div>	<div>F10</div> <div></div> <div>CR06F005</div>
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FRAME HARNESS (2)



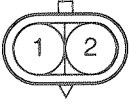
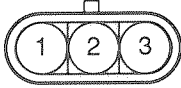
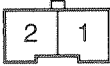
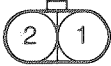
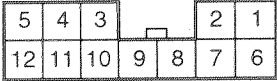

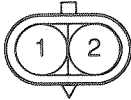
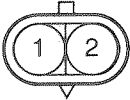
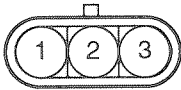
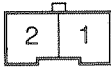
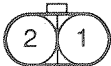

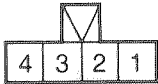
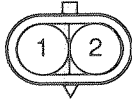
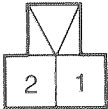
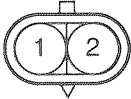
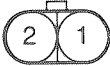

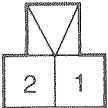
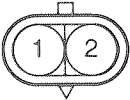
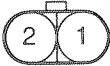

AIR BAG & A/C HARNESS E4XC0040

AIR BAG & A/C HARNESS (1)

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15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																																															
30	29	28	27	26	25	24	23	22	21	20	19	18	17	16																																															
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DOOR HARNESS E4XC0050

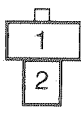
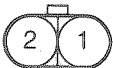
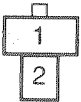
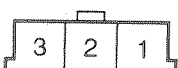
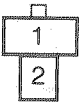
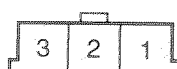
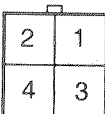
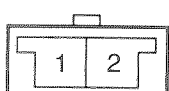
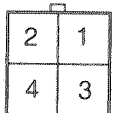
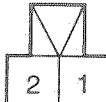
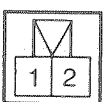


DOOR HARNESS (1)

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<div>D06</div> <div></div> <div>CR02F001</div>	<div>D07</div> <div></div> <div>CR12F020</div>	<div>D08</div> <div></div> <div>CR03F016</div>	<div>D09</div> <div></div> <div>CR02M008</div>
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ROOF & BACK DOOR HARNESS

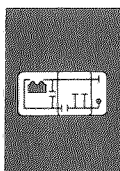
E4XC0060

ROOF & BACK DOOR HARNESS (1)

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R06  CR02F012	R07  CR03F011	BLANK	R12  CR04F001
R13  CR02M022	R14  CR04F001	R15  CR02F011	R16  CR02M004
R18-1  CR01F040	R18-2  CR01F040	BLANK	BLANK

HARNESS LAYOUTS

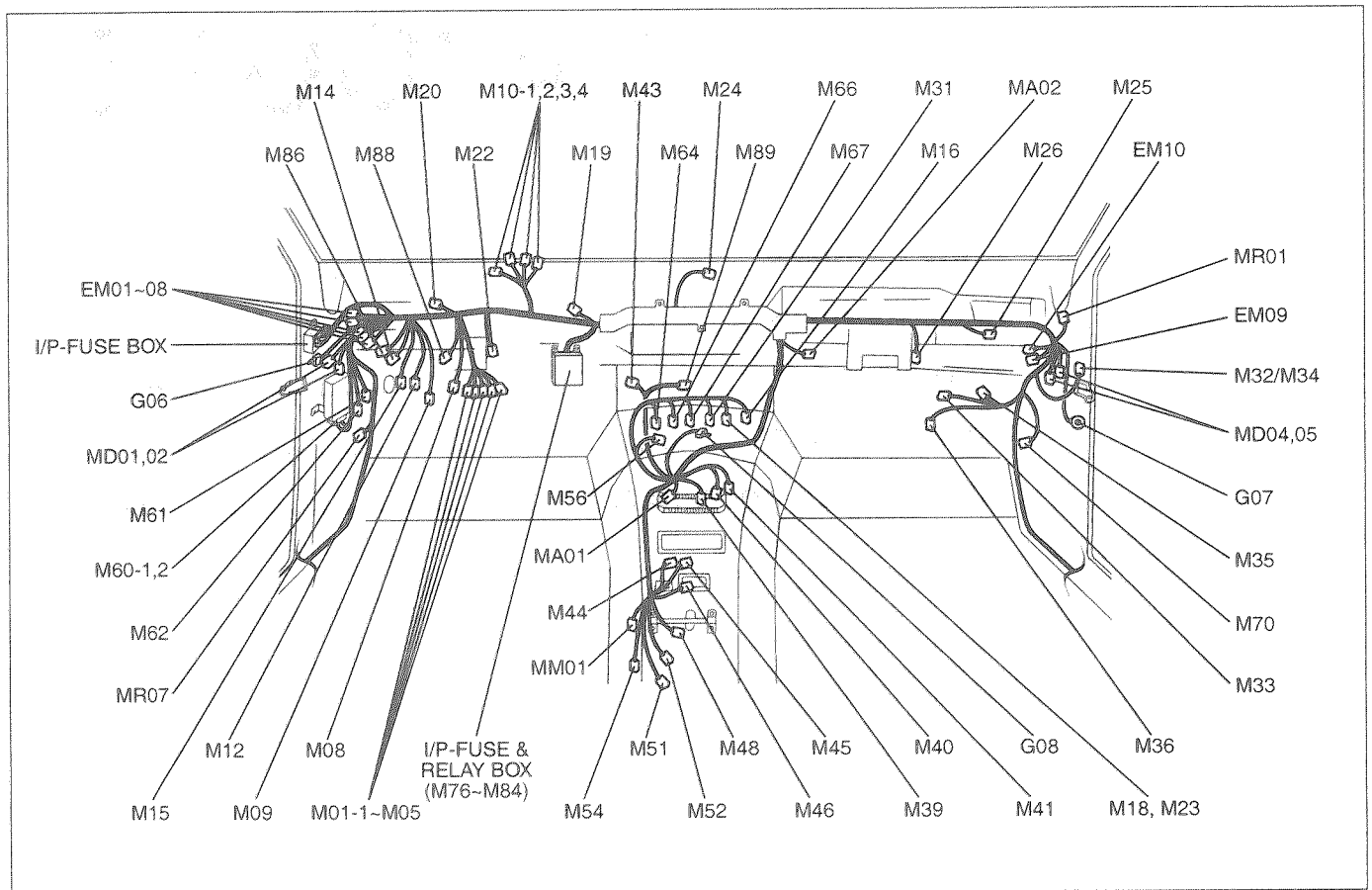
BODY HARNESS	HL-2
DOOR HARNESS	HL-8
FRAME HARNESS	HL-7
FRONT HARNESS	HL-4
ROOF & BACK DOOR HARNESS	HL-10



BODY HARNESS

E5XC0010

BODY HARNESS (1)



E5XC001A

BODY HARNESS

M01-1	Multifunction switch	M18	Front fog lamp switch
M01-2	Multifunction switch	M19	Joint connector
M02	Ignition switch	M20	Joint connector
M04	Door warning switch	M22	Back door lock switch
M05	Coil antenna (Immobilizer)	M23	Rear fog lamp switch
M08	Stop lamp switch	M24	Multi meter
M09	Head lamp leveling switch	M25	Power antenna (EU only)
M10-1	Instrument cluster	M26	Intake actuator
M10-2	Instrument cluster	M31	Head lamp washer switch
M10-3	Instrument cluster	M32	Auto idle up control module
M10-4	Instrument cluster	M33	Blower resistor
M12	Rheostat	M34	Over drive off relay
M14	Fuel line heater control module	M35	Blower motor
M15	Immobilizer control module	M36	Data link connector
M16	Rear blower switch	M39	Acc spare connector

BODY HARNESS (2)

M40	Audio
M40-1	Helix antenna
M43	Blower switch
M44	Auto illumination
M45	Over drive off switch
M46	G-sensor
M48	Power outside mirror switch
M51	Door lock control module
M52	Rear wiper & washer switch
M54	Parking brake switch
M56	Cigarette lighter
M60-1	ETACM
M60-2	ETACM
M61	Pre-excitation resistor
M62	Chime bell
M63	Left front door switch
M64	Hazard switch
M66	Defogger switch
M67	A/C switch
M69	Right front door switch
M70	EGR control module
M76	ABS relay
M77	Blower relay
M78	Accessory socket relay
M79	Rear fog lamp relay
M80	Front wiper relay
M82	Flasher unit
M83	Defogger relay
M84	Horn relay
M86	Idle up control module
M88	Clutch switch (COVEC-F)
M89	Blower control module
EM01	Connection with FRONT harness
EM02	Connection with FRONT harness
EM03	Connection with FRONT harness
EM04	Connection with FRONT harness
EM05	Connection with FRONT harness
EM06	Connection with FRONT harness
EM07	Connection with FRONT harness
EM08	Connection with FRONT harness
EM09	Connection with FRONT harness
EM10	Connection with FRONT harness
MA01	Connection with A/BAG harness
MA02	Connection with A/C harness
MA03	Connection with REAR A/C harness
MD01	Connection with LEFT FRONT DOOR harness
MD02	Connection with LEFT FRONT DOOR harness

MD04	Connection with RIGHT FRONT DOOR harness
MD05	Connection with RIGHT FRONT DOOR harness
MD06	Connection with LEFT REAR DOOR harness
MD07	Connection with RIGHT REAR DOOR harness
MF01	Connection with FRAME harness
MF02	Connection with FRAME harness
MF03	Connection with FRAME harness
MF04	Connection with ABS harness
MR01	Connection with ROOF harness
MR07	Connection with REAR BLOWER harness
MM01	Connection with SEAT WARMER harness
G06	Ground
G07	Ground
G08	Ground
Z04	Diode

SEAT HARNESS

M90	Left seat warmer switch
M91	Right seat warmer switch
M92	Right seat warmer
M94	Left seat warmer
M95	Right seat warmer relay
M96	Left seat warmer relay
MM01	Connection with SEAT WARMER harness

AIR BAG EXT. HARNESS

A01	SRS control module
A02	Drive air bag
MA01	Connection with BODY harness

A/C HARNESS

A04	A/C relay
A05-1	Thermostatic switch
A05-2	Thermostatic switch
MA02	Connection with BODY switch

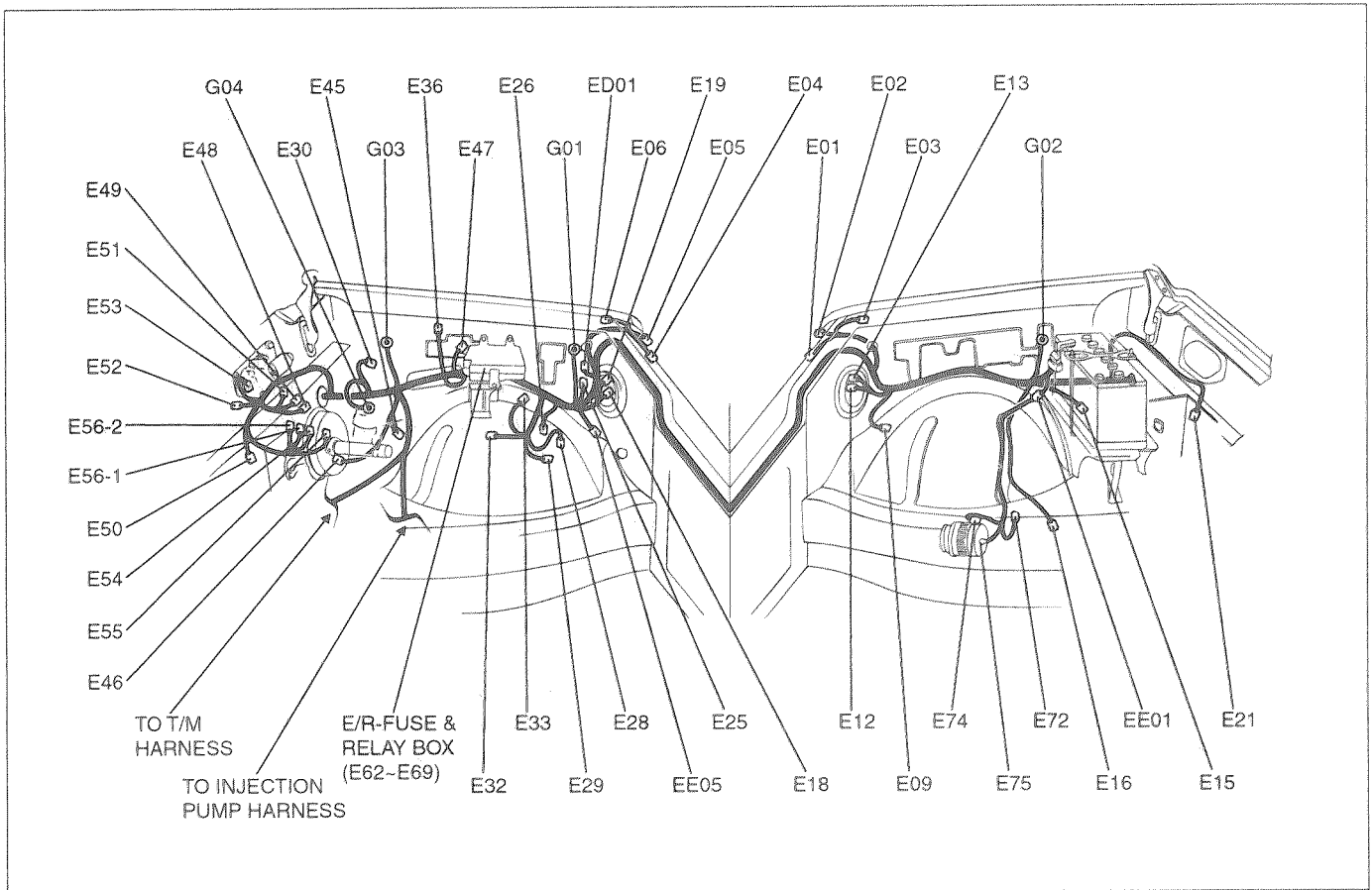
REAR A/C EXT. HARNESS

A10	Rear A/C switch
A12	Rear A/C relay.1
A13	Rear A/C relay.2
FA01	Connection with FRAME harness
MA03	Connection with BODY harness
G10	Ground

FRONT HARNESS

E5XC0020

FRONT HARNESS (1)



E5XC002A

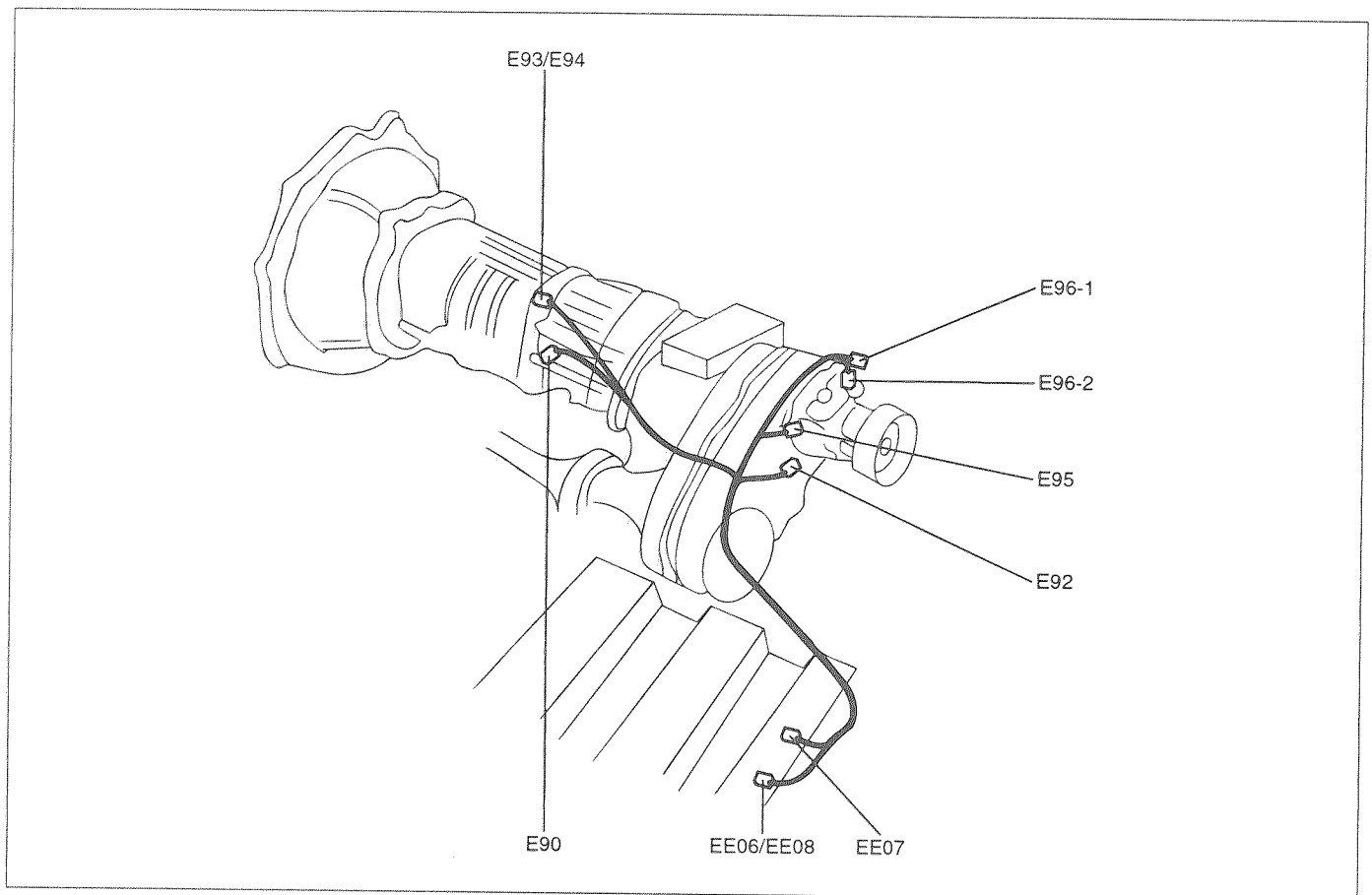
FRONT HARNESS

E01	Right front position lamp	E20	Dual pressure switch
E02	Right front turn signal lamp	E21	BPS & ATS (COVEC-F)
E03	Right side repeater lamp	E22	Low horn
E04	Left front position lamp	E23	High horn
E05	Left front turn signal lamp	E24	Out side thermo sensor
E06	Left side repeater lamp	E25	Starter relay
E09	Glow relay	E26	Left front wheel speed sensor
E12	Right head lamp	E27	Glow plug
E13	Right head lamp leveling actuator	E28	Front washer motor
E15	DRL control module	E29	Head lamp washer motor
E16	Right front wheel speed sensor	E30	ABS control module
E18	Left head lamp	E32	A/C compressor
E19	Left head lamp leveling actuator	E33	Head lamp washer relay

FRONT HARNESS (2)

E36	ABS idle up solenoid valve	EE07	Connection with
E37	Fuel cut valve controller (Immobilizer)		TRANSMISSION harness (COVEC-F)
E38	Lever position sensor	EE08	Connection with
E40	Water temperature switch		TRANSMISSION harness (COVEC-F)
E42	Starter motor solenoid	EM01	Connection with BODY harness
E43	Back-up lamp switch	EM02	Connection with BODY harness
E45	Brake fluid level sensor	EM03	Connection with BODY harness
E46	Vacuum switch	EM04	Connection with BODY harness
E47	Accelerator position sensor (COVEC-F)	EM05	Connection with BODY harness
E48	Temperature switch	EM06	Connection with BODY harness
E49	TCI fan motor	EM07	Connection with BODY harness
E50	Water level switch	EM08	Connection with BODY harness
E51	Fuel line heater & Sensor	EM09	Connection with BODY harness
E52	A/C idle up solenoid valve	EM10	Connection with BODY harness (COVEC-F)
E53	Front wiper motor	G01	Ground
E54	BCS solenoid valve	G02	Ground
E55	TCI fan relay	G03	Ground
E56-1	EGR solenoid valve #1	G04	Ground
E56-2	EGR solenoid valve #2	G05	Ground (COVEC-F)
E62	Tail lamp relay	Z01	Diode
E63	Head lamp relay	Z02	Diode
E64	Power window relay	Z03	Diode (COVEC-F)
E65	Front fog lamp relay		
E66	Glow check relay (COVEC-F)		ENGINE EXT. HARNESS
E68	A/C compressor relay		
E69	Condenser fan relay	E72	Oil pressure switch
E70-1	ECM (COVEC-F)	E74	Generator (L.S)
E70-2	ECM (COVEC-F)	E75	Generator (B+)
E70-3	ECM (COVEC-F)	EE01	Connection with FRONT harness
E70-4	ECM (COVEC-F)		
E73	Glow plug (COVEC-F)		FRONT BUMPER HARNESS
E76	Water temperature sensor (COVEC-F)		
E77	Water temperature gauge (COVEC-F)	E80	Left front fog lamp
E78	NPS (COVEC-F)	E81	Right front fog lamp
E84	TPS (COVEC-F)	EE03	Connection with FRONT harness
E85	Engine control relay (COVEC-F)		
ED01	Connection with LEFT FRONT DOOR harness		FAN MOTOR EXT. HARNESS
EE01	Connection with ENGINE harness		
EE03	Connection with FRONT BUMPER harness	E87	Main condenser fan motor
EE04	Connection with INJECTION PUMP harness	E88	Sub condenser fan motor
EE05	Connection with FAN MOTOR harness	EE05	Connection with FRONT harness
EE06	Connection with TRANSMISSION harness		

FRONT HARNESS (TRANSMISSION) (3)



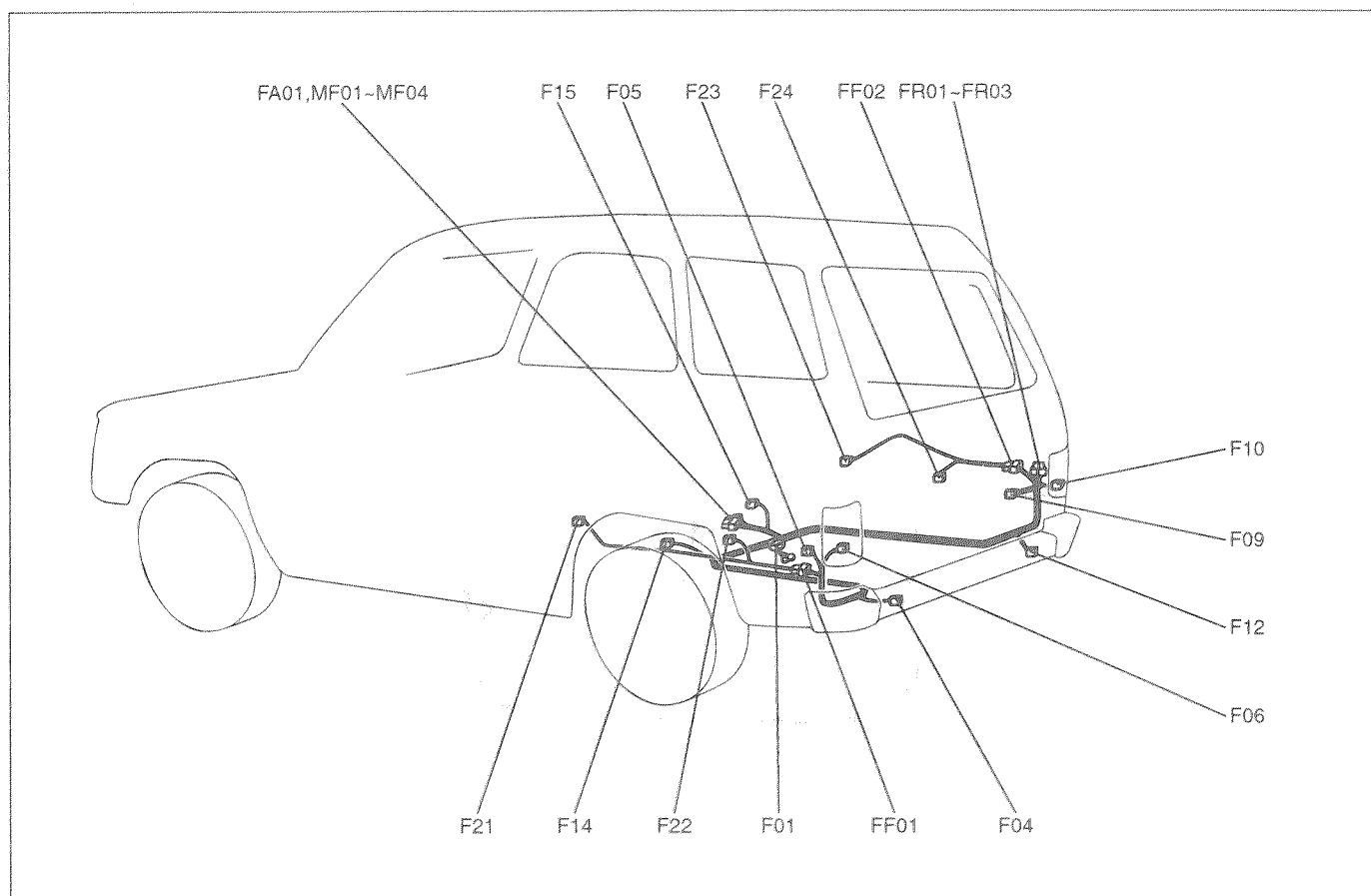
E5XC002B

TRANSMISSION HARNESS

E90	Transmission range switch
E92	Vehicle speed sensor
E93	TDC sensor (COVEC-F . A/T)
E94	TDC sensor (COVEC-F . M/T)
E95	Neutral switch (COVEC-F)
E96-1	4WD switch
E96-2	4WD switch
EE06	Connection with FRONT harness
EE07	Connection with FRONT harness (COVEC-F)
EE08	Connection with FRONT harness (COVEC-F)

FRAME HARNESS E5XC0030

FRAME HARNESS (1)



E5XC003A

FRAME HARNESS

F01	Fuel sender & Fuel pump motor
F04	Left stop & tail lamp
F05	Accessory socket
F06	Left rear combination lamp
F08	Rear washer motor
F09	Rear A/C control module
F10	Right rear combination lamp
F12	Right stop & tail lamp
F14	Left rear wheel speed sensor
F15	Right rear wheel speed sensor
FA01	Connection with A/C harness
FF01	Connection with QUARTER PANEL harness
FF02	Connection with QUARTER PANEL harness
FR01	Connection with BACK DOOR harness
FR02	Connection with BACK DOOR harness

FR03	Connection with BACK DOOR harness
MF01	Connection with BODY harness
MF02	Connection with BODY harness
MF03	Connection with BODY harness
MF04	Connection with ABS harness

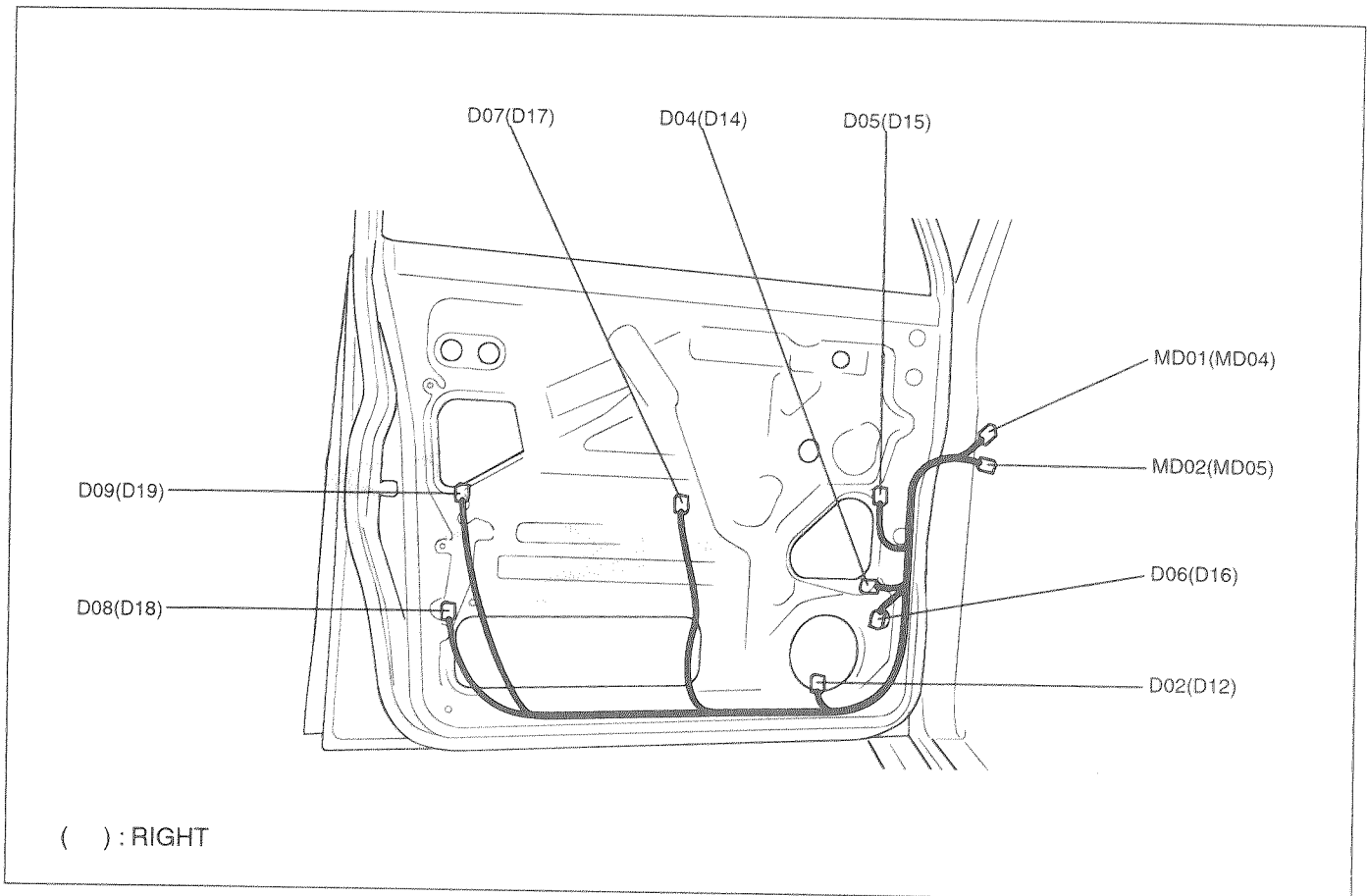
QUARTER PANEL HARNESS

F21	Left rear door switch
F22	Left quarter panel speaker
F23	Right rear door switch
F24	Right quarter panel speaker
FF01	Connection with QUARTER harness
FF02	Connection with QUARTER harness

DOOR HARNESS

E5XC0050

DOOR HARNESS (1)



E5XC005A

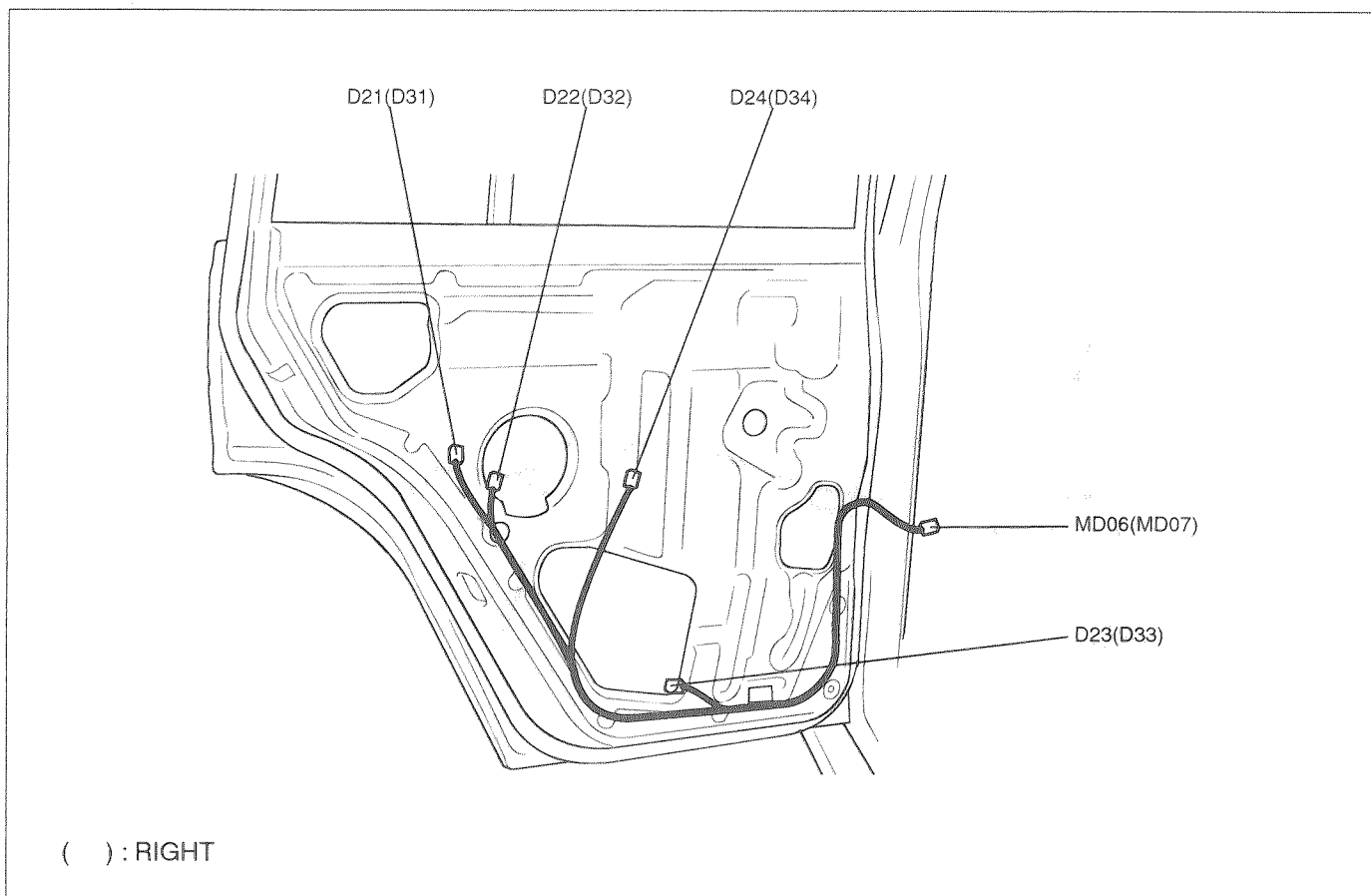
LEFT FRONT DOOR HARNESS

D02	Left front door speaker
D04	Left outside mirror motor
D05	Left front power window motor
D06	Left outside mirror defogger
D07	Power window main switch
D08	Left front door lock actuator
D09	Left front door key switch
ED01	Connection with ENGINE harness
MD01	Connection with BODY harness
MD02	Connection with BODY harness

RIGHT FRONT DOOR HARNESS

D12	Right front door speaker
D14	Right outside mirror motor
D15	Right front power window motor
D16	Right outside mirror defogger
D17	Right front power window switch
D18	Right front door lock actuator
D19	Right front door key switch
MD04	Connection with BODY harness
MD05	Connection with BODY harness

DOOR HARNESS (2)



E5XC005B

LEFT REAR DOOR HARNESS

D21	Left rear door actuator
D22	Left rear door speaker
D23	Left rear power window motor
D24	Left rear power window switch
MD06	Connection with BODY harness

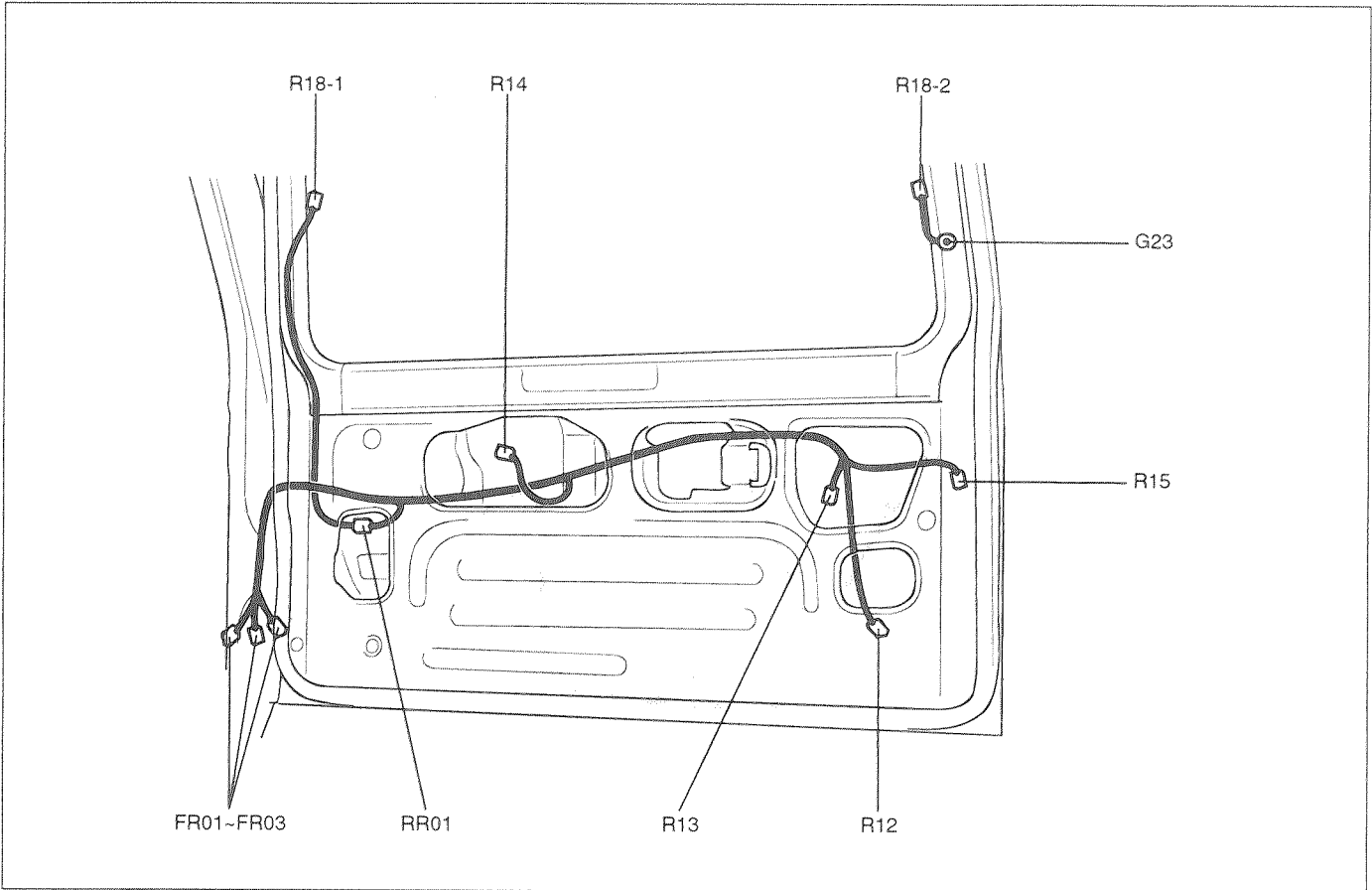
RIGHT REAR DOOR HARNESS

D31	Right rear door actuator
D32	Right rear door speaker
D33	Right rear power window motor
D34	Right rear power window switch
MD07	Connection with BODY harness

ROOF & BACK DOOR HARNESS

E5XC0060

ROOF & BACK DOOR HARNESS (1)



E5XC006A

ROOF HARNESS

R01	Map & front room lamp
R02	High mounted stop lamp
R04	Rear room lamp
MR01	Connection with BODY harness
G22	Ground

REAR BLOWER EXT. HARNESS

R06	Rear blower motor (HIGH)
R07	Rear blower motor (LOW)
MR07	Connection with BODY harness

BACK DOOR HARNESS

R12	Back door lock actuator
R13	License lamp
R14	Rear wiper motor
R15	Back door switch
R18-1	Rear window defogger(+)
R18-2	Rear window defogger(-)
FR01	Connection with FRAME harness
FR02	Connection with FRAME harness
FR03	Connection with FRAME harness
RR01	Connection with REAR DEFOGGER harness
G23	Ground