13 Electrical Troubleshooting Manual

13.1 General

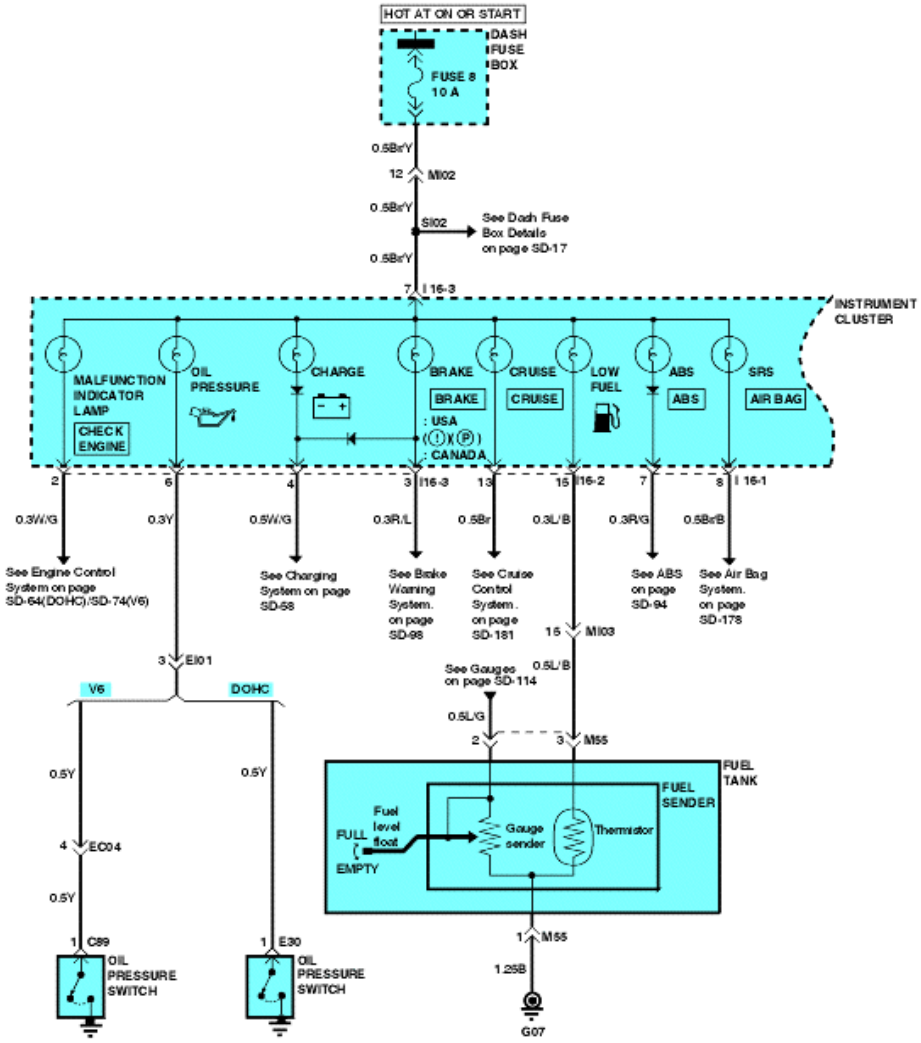
INTRODUCTION E1KB0010
This Manual consists of five major diagnostic sections for electrical problem troubleshooting.

- 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.



COMPONENT LOCATION INDEXES

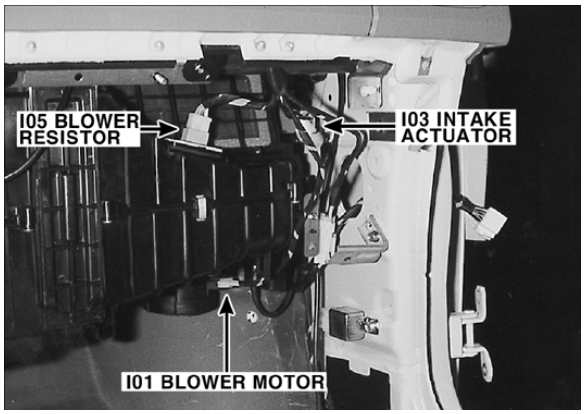
When you want to locate the schematic components on the vehicle, use the Component Location Index which follows each schematic. A Component Location Index lists major components, connectors, grounds, diodes, and their physical location and page reference.

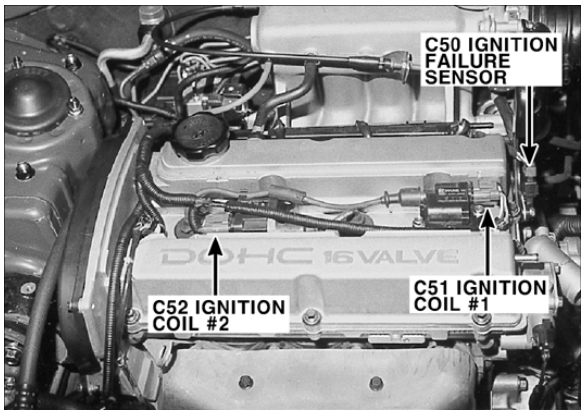
Almost all components, connectors or grounds, and diodes shown on a schematic can be pinpointed visually by using the Component Location Illustrations.

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

COMPONENT LOCATIONS

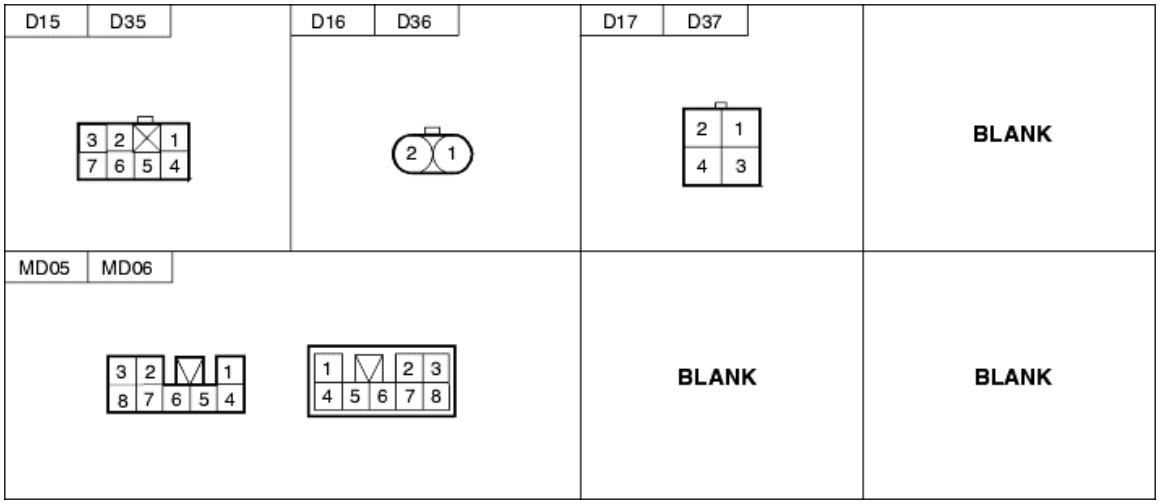
Component Locations make it easy to find the schematic components on the vehicle shown in the Component Location Index.



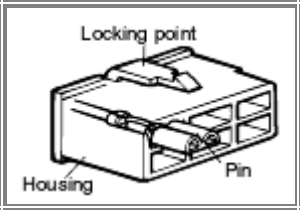
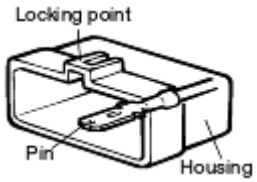
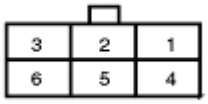


CONNECTOR CONFIGURATIONS

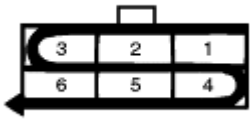
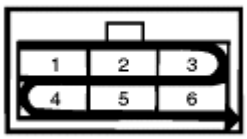
This section shows the cavity or terminal locations in all the multi-pin connectors shown in the schematic diagrams. It will help you to locate check points, together with the wire colors and terminal numbers in the schematic. The configuration drawings show the connector view as seen from a component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



1. CONNECTOR VIEW

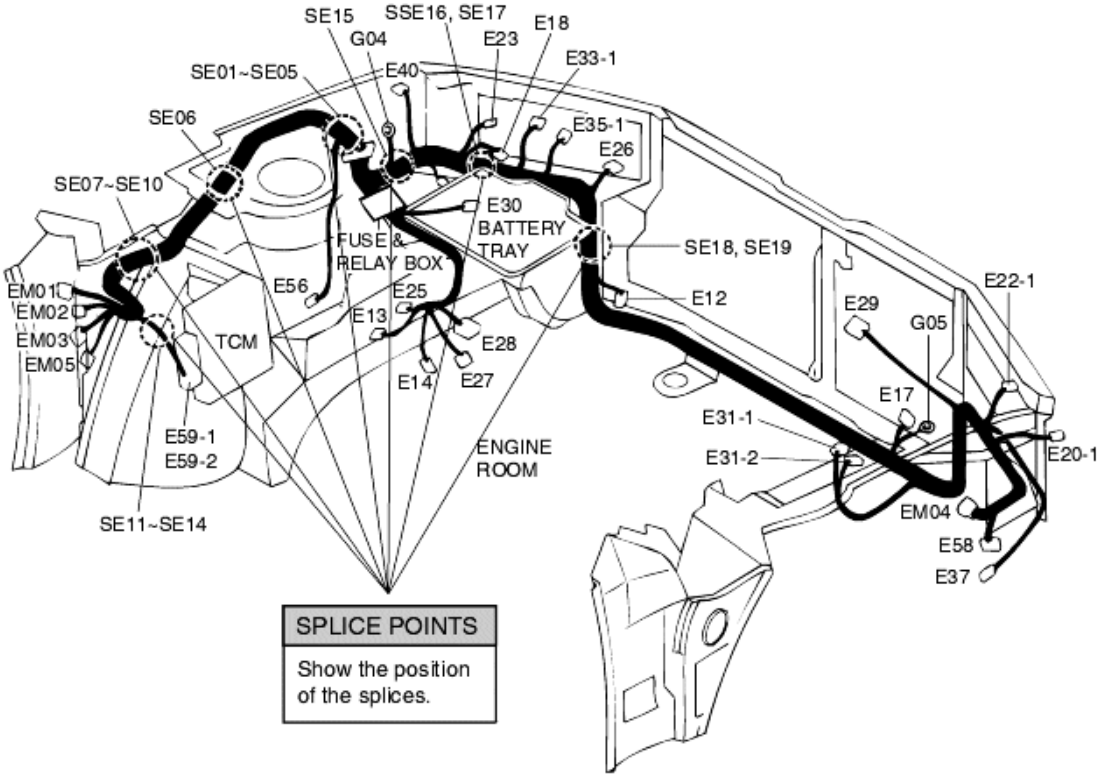
	Female	Male	Remarks
Actual Illustration			It is not the shape of the connector housing, but the connector pin that distinguishes between male or female connectors. When numbering female and male connectors, refer to the numbering order in the following table. Some connectors may not follow this method of numbering order. For individual detailed numbering, refer to the CONNECTOR CONFIGURATIONS.
Illustration in the Shop manual			

2. NUMBERING ORDER

	Numbering order	Remarks
Female Connector		Numbered in order from upper right to lower left
Male Connector		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 E11C0020

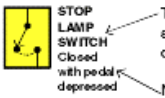
The symbols and abbreviations explained in this section are used throughout the manual.

SYMBOLS IN SCHEMATIC

Components

A solid line means the entire component is shown.

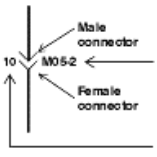
A broken line indicates only part of the component is shown.



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

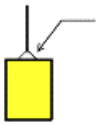
Notes about component function follow its name.

Connectors

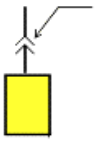


Connector number

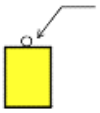
Connector cavity number



This means the connector connects directly to the component.



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

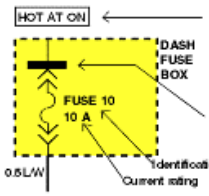


This indicates a screw terminal on the component.

Diode

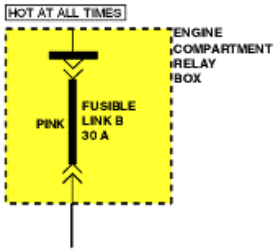
This diode allows current to flow only in the direction of the arrow.

Fuse and Fusible link



This means power is supplied with the ignition on position.

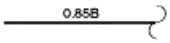
This means the short bar connects to other fuses.



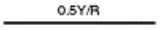
Circuit Breaker

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.

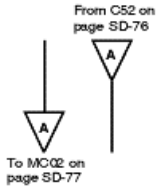
Wires



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

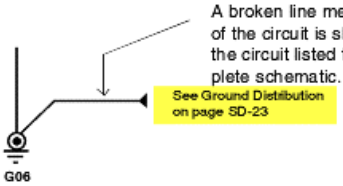


Wire insulation is yellow with a red strip.

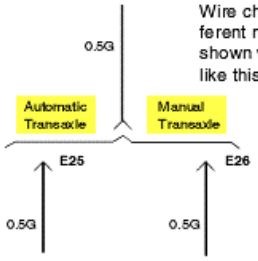


Current path is continued on the same page or another page. The arrow shows the direction of current flow. You should look for the "A" in the marked position.

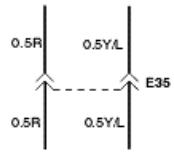
A wire connects to another circuit. The wire is shown again on that circuit which the arrow is pointing.



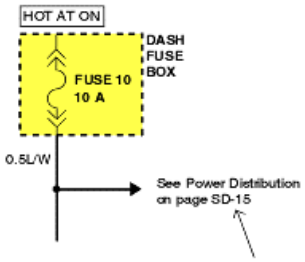
A broken line means only some of the circuit is shown: refer to the circuit listed for the complete schematic.



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

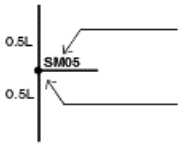


This dashed line means the RED and YELLOW/BLUE wires are both in connector E35.



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

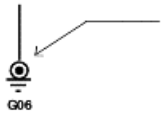
Splices



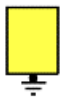
Splice number

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

Ground - "G"

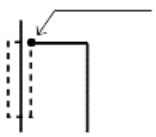


This symbol means the end of the wire is attached to a metal part of the vehicle.



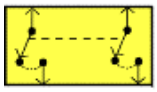
This ground symbol (dot and 3 lines overlapping the component) means the housing of the component is attached to a metal part of the vehicle.

Shield Wire



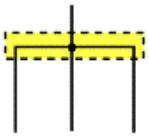
This represents RFI (Radio Frequency Interference) Shielding around a wire. The shielding is always connected to ground.

Switches



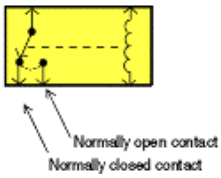
These switches move together: a dashed line shows a mechanical connection between them.

Joint Connectors



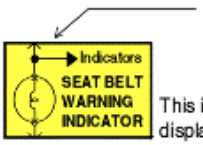
This is a connector showing the joining wires.

Relays



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

Indicator



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

This is an indicator which displays the lighted symbol.

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		O	Orange
Br	Brown		P	Pink
G	Green		Pp	Purple
Gr	Gray		R	Red
L	Blue		T	Tawny
Lg	Light green		W	White
Ll	Light blue		Y	Yellow

HARNESS CLASSIFICATION

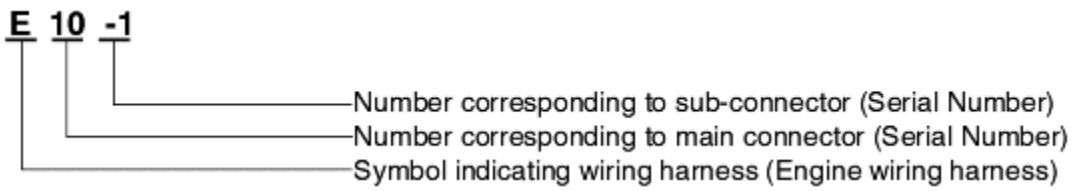
Electrical wiring connectors are classified according to the wiring parts in the Harness Layouts.

Harness name	Location	Symbol
Engine harness	Engine compartment	E
Main, Air Bag harness	Passenger compartment	M
Control harness	Engine compartment	C
Rear and Trunk lid (Tail gate) harness	Rear and Trunk lid	R
Instrument harness	Under crash pad	I
Door harness	Door	D

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.

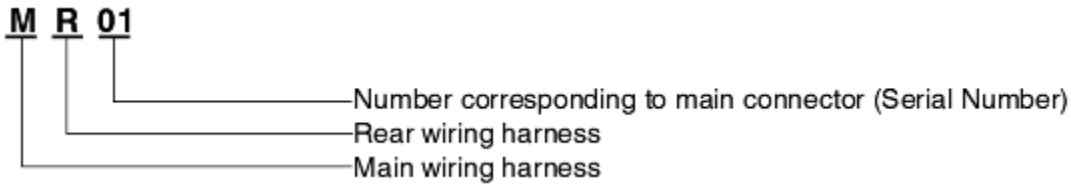
For example :



NOTE

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

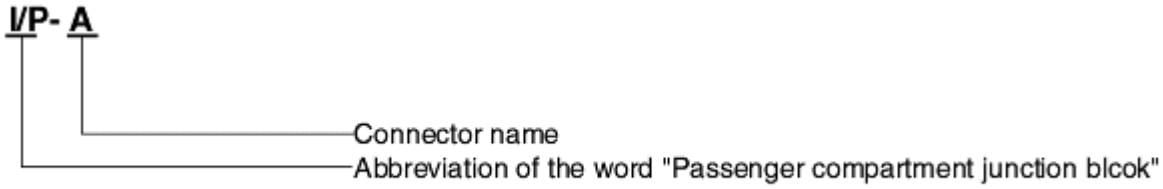
For example :



JUNCTION BLOCK IDENTIFICATION

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

For example :



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

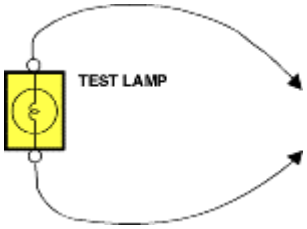
VOLTMETER AND TEST LAMP

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.



SELF-POWERED TEST LAMP AND OHMMETER

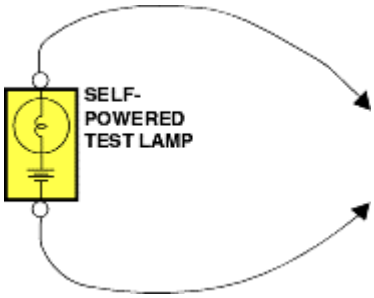
Use a self-powered test lamp or an ohmmeter to check for continuity. A self-powered test lamp is made of a bulb, battery and two leads. That will light a lamp when touched together. Prior to checking the points, first disconnect the battery ground cable or remove the fuse which feeds the circuit you are working on.

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.

Circui ts which include any solid-state devices should be tested only with a10-megaohm or higher impedance digital multimeter. When measuring resistance with a digital multimeter, the battery negative terminal should be disconnected. Otherwise, there may incorrect readings. Diodes and solid-state devices in a be 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.



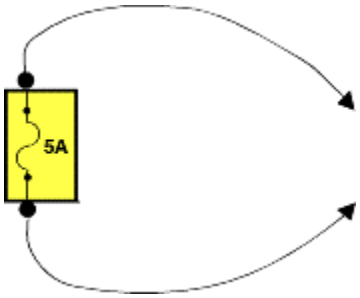
JUMPER WIRE WITH FUSE

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 circult 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.



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

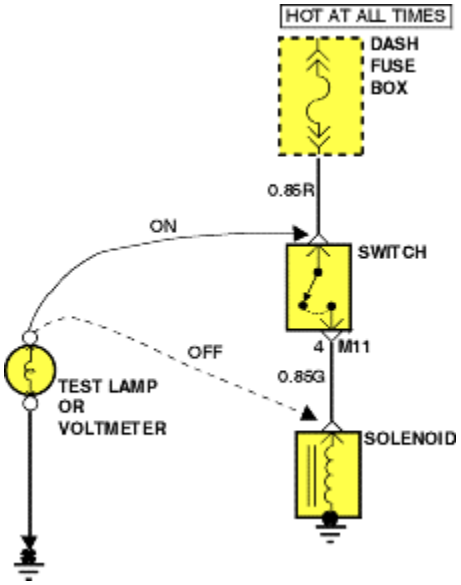
TESTING FOR VOLTAGE

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 (badkprobe). 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. Too close a loss of more than 1 volt from specification indicates a problem.



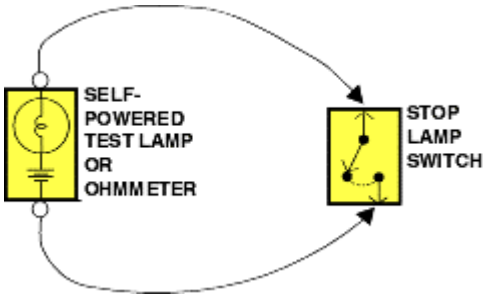
TESTING FOR CONTINUITY

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.



TESTING FOR SHORT TO GROUND

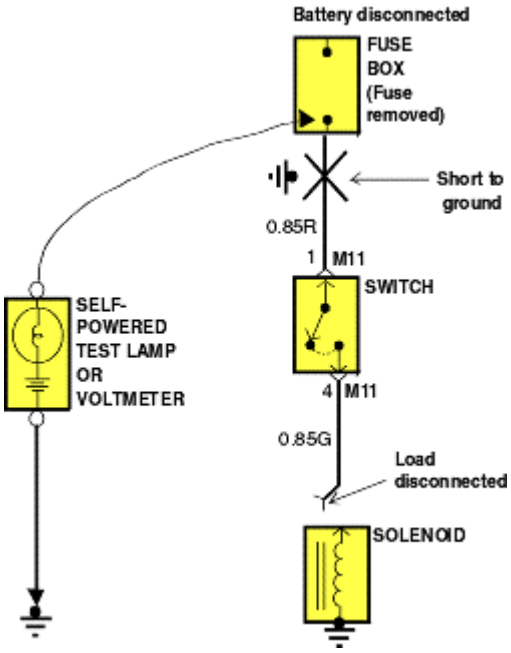
1. Disconnect the battery negative terminal.

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.

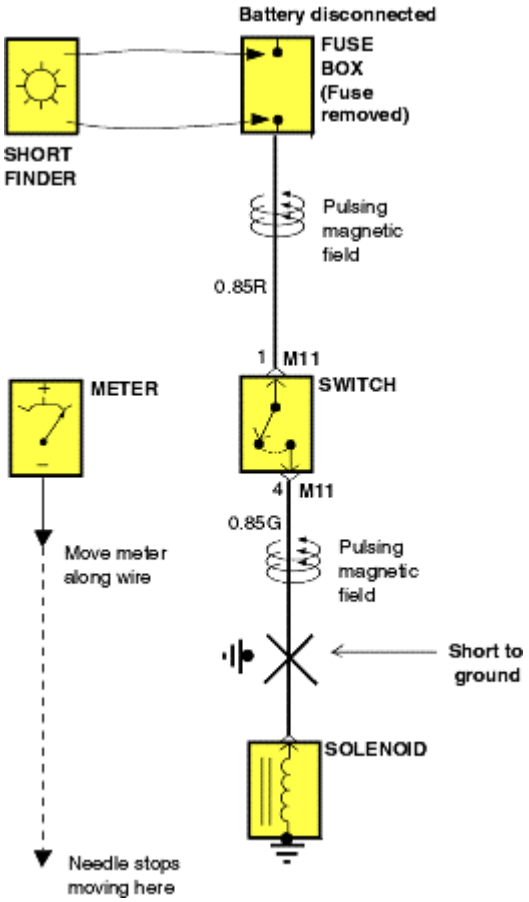
4. Beginning near the fuse block move the harness from side to side. Continue this proceedure (about six inches apart) while watching the self-powered test lamp or ohmmeter.

5. When the self-powered test lamp glows, or ohmmeter registers, there is a short to a ground in the wiring near that point.



TESTING FOR A SHORT WITH A SHORT FINDER

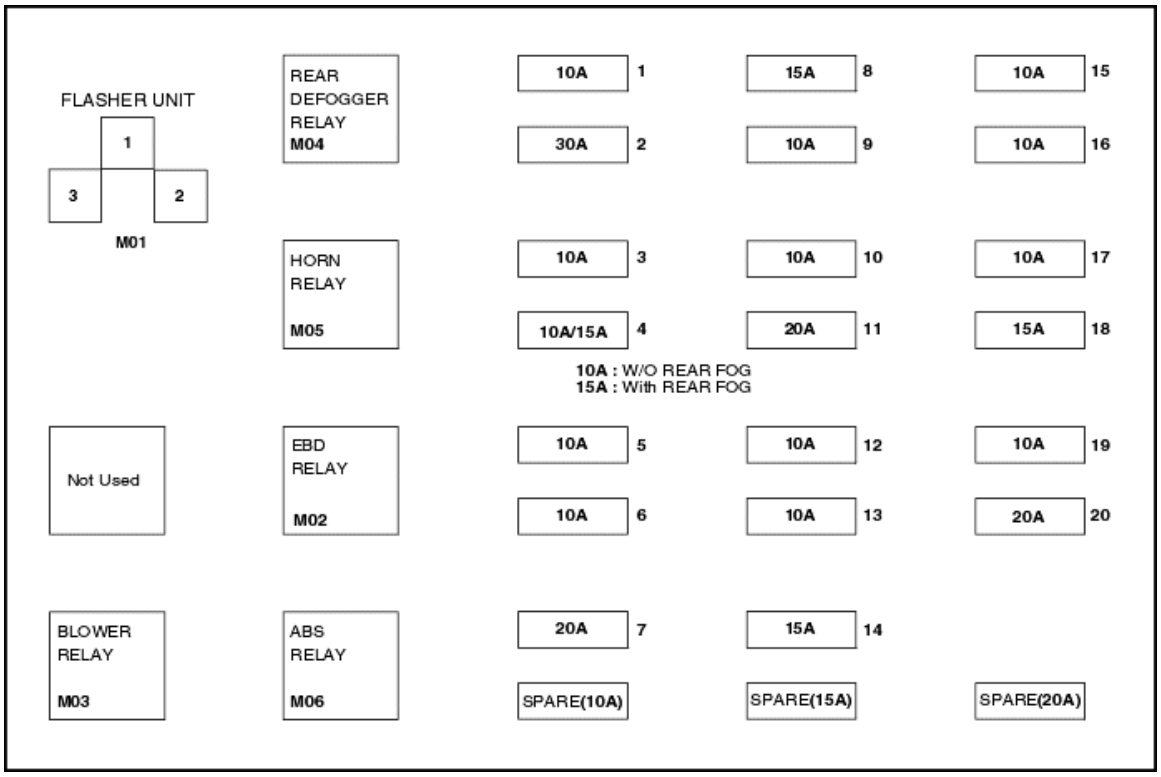
1. Remove the blown fuse. Leave the battery connected.
2. Connect the short finder across the fuse terminals.
3. Close all switches in series in the circuit that are being testing.
4. Turn on the short circuit locator. It sends pulses of current to the short. This creates a pulsing magnetic field around 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.


Battery disconnected
FUSE BOX (Fuse removed)
SHORT FINDER
Pulsing magnetic field
0.85R
1
M11
SWITCH
METER
4
M11
0.85G
Move meter along wire
Pulsing magnetic field
Short to ground
SOLENOID
Needle stops moving here

13.2 Schematic Diagram

FUSE & RELAY INFORMATION E21C0010

PASSENGER COMPARTMENT RELAY & FUSE BOX
LAYOUT

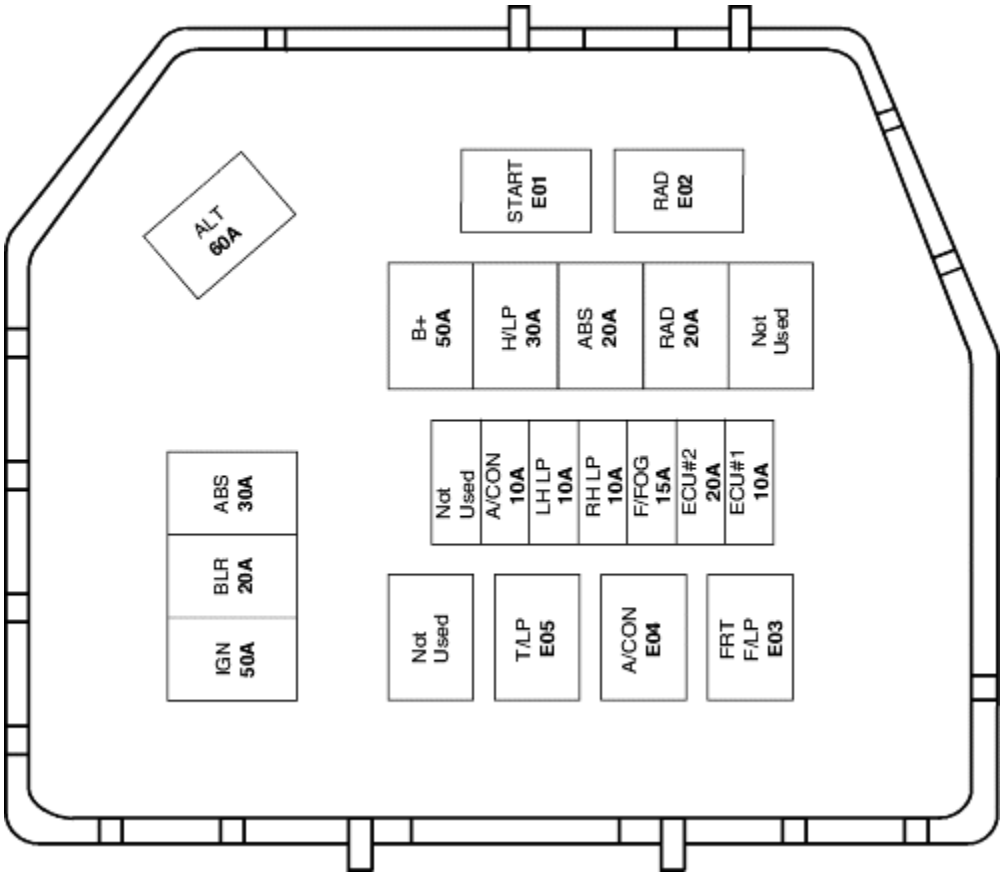


CIRCUIT

Fuse	Amperages	Circuit
1	10A	Horn
2	30A	Power window
3	10A	ABS
4	10A/15A	Left head lamp, rear fog lamp, DRL control
5	10A	Right head lamp, DRL control
6	10A	Blower, rear window defogger
7	20A	Wiper, washer
8	15A	Power door lock, door warning control
9	10A	Hazard warning, data link connector
10	10A	Stop lamp, shif & key lock control
11	20A	Rear window defogger
12	10A	Digital clock, audio, room lam p, instrument cluster, rear fog lamp, luggage room lamp
13	10A	Digital clock, audio, A/T interlock control
14	15A	Seat warmer, cigarette lighter
15	10A	Back-up lamp, generator, TCM, turn signal
16	10A	ABS, instrument cluster, seat belt timer, EBD, A/T interlock control
17	10A	Instrument cluster
18	15A	Air bag
19	10A	A/C & blower control
20	20A	ECM, Ignition coil

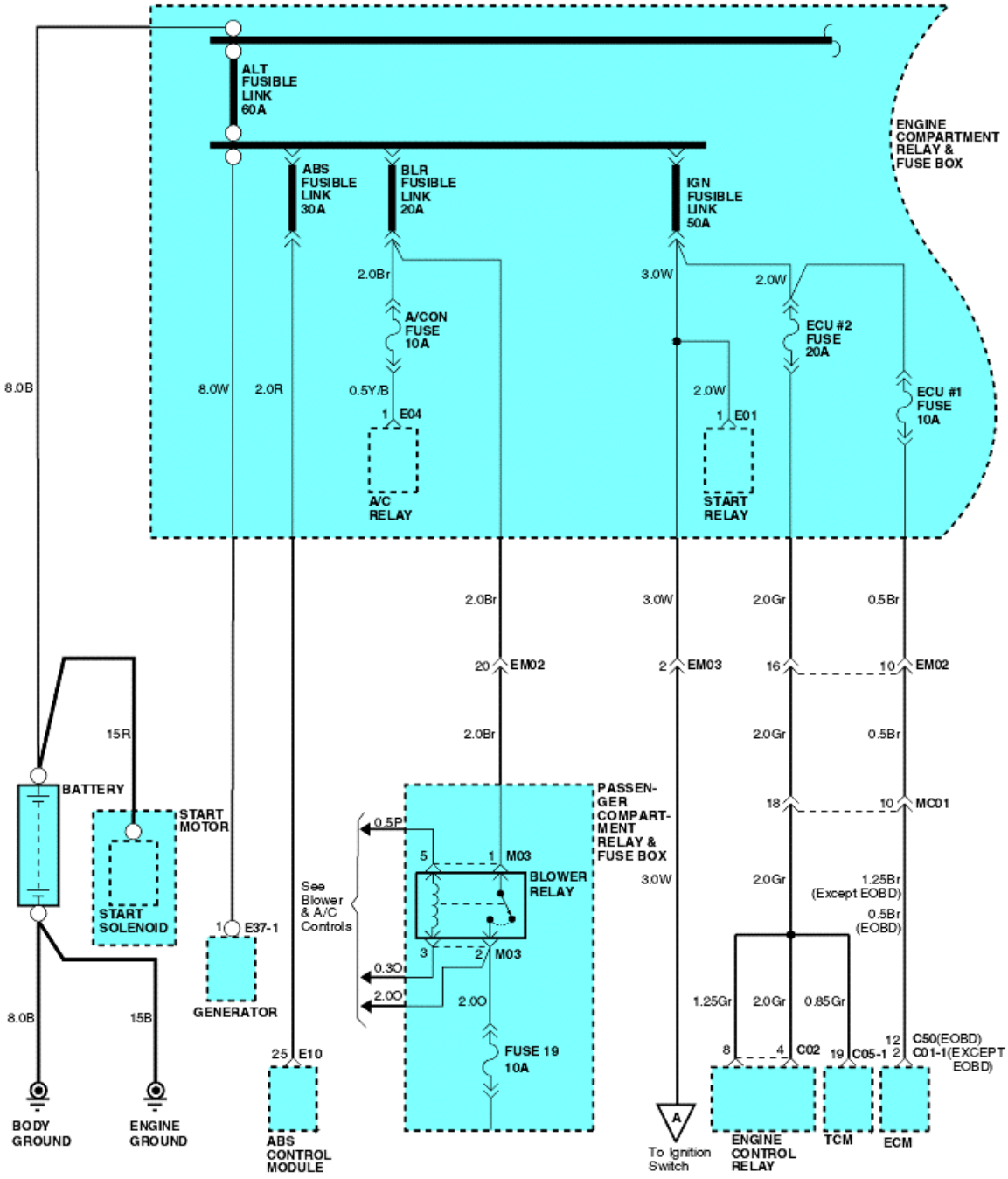
ENGINE COMPARTMENT RELAY & FUSE BOX

LAYOUT



FUSE & RELAY INFORMATION

Description	Amperages	Circuit protected	Remark
Fusible link			
ALT	60A	Generator	
ABS	30A	ABS control	
BLR	20A	Blower control	
IGN	50A	Ignition power source	
B+	50A	Battery power source	
H/LP	30A	Lamps	
ABS	20A	ABS control	
RAD	20A	Radiator fan control	
Fuse			
A/CON	10A	A/CON controls	
LH LP	10A	Left tail lamps	
RH LP	10A	Right tail lamps	
F/FOG	15A	Front fog lamps	
ECM #2	20A	Engine control relay	
ECU #1	10A	ECM	


ENGINE COMPARTMENT RELAY & FUSE BOX
ALT FUSIBLE LINK 60A
ABS FUSIBLE LINK 30A
BLR FUSIBLE LINK 20A
IGN FUSIBLE LINK 50A
A/CON FUSE 10A
ECU #2 FUSE 20A
ECU #1 FUSE 10A
A/C RELAY
START RELAY
E04
E01
8.0B
8.0W
2.0R
2.0Br
0.5Y/B
3.0W
2.0W
2.0Gr
0.5Br
BATTERY
START MOTOR
START SOLENOID
GENERATOR
E37-1
15R
15B
BODY GROUND
ENGINE GROUND
ABS CONTROL MODULE
E10
See Blower & A/C Controls
PASSEN-GER COMPART-MENT RELAY & FUSE BOX
BLOWER RELAY
M03
FUSE 19 10A
0.5P
0.3O
2.0O
EM02
EM03
MC01
1.25Br (Except EOBD)
0.5Br (EOBD)
1.25Gr
0.85Gr
C02
C05-1
C50(EOBD)
C01-1(EXCEPT EOBD)
To Ignition Switch
ENGINE CONTROL RELAY
TCM
ECM

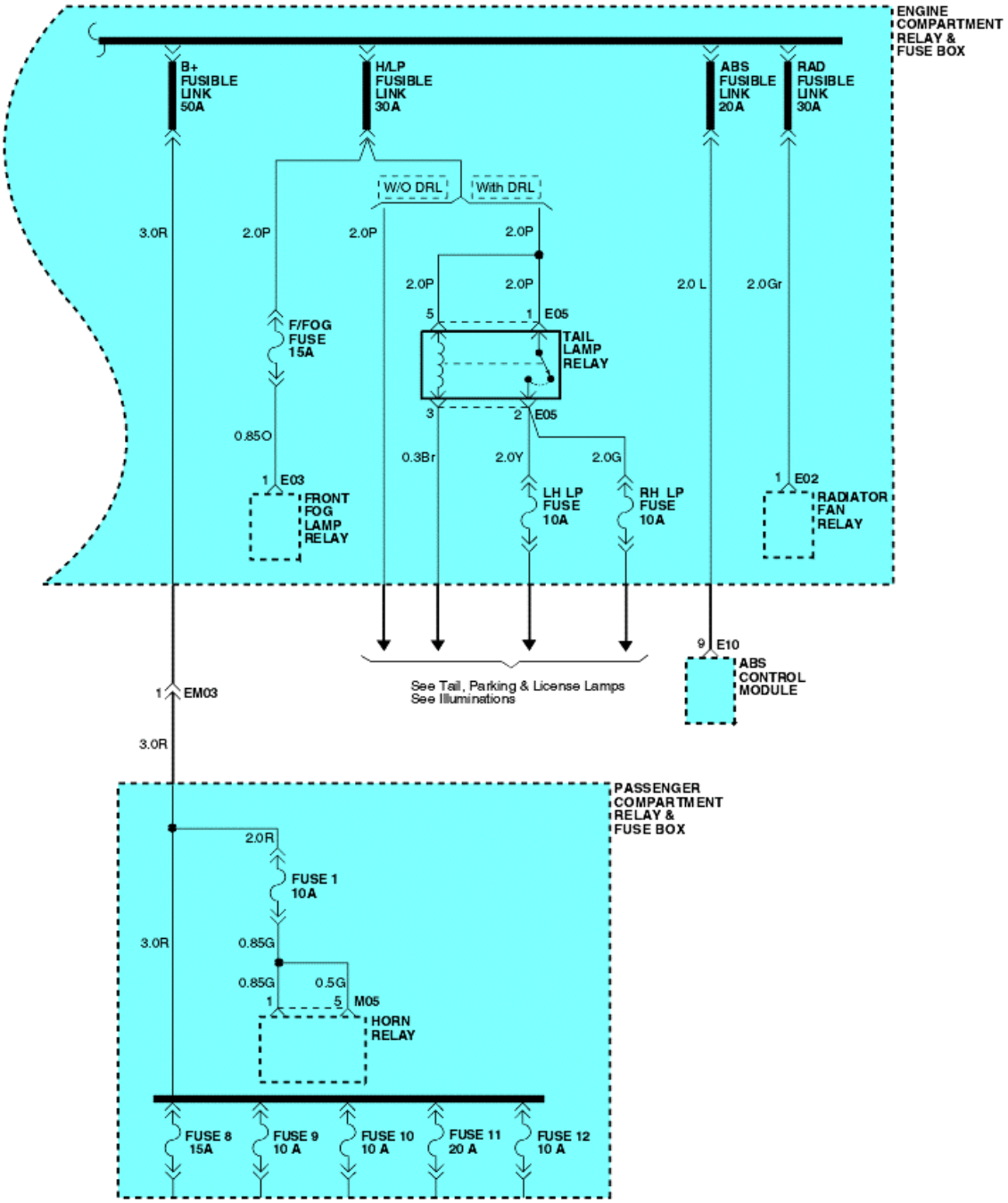
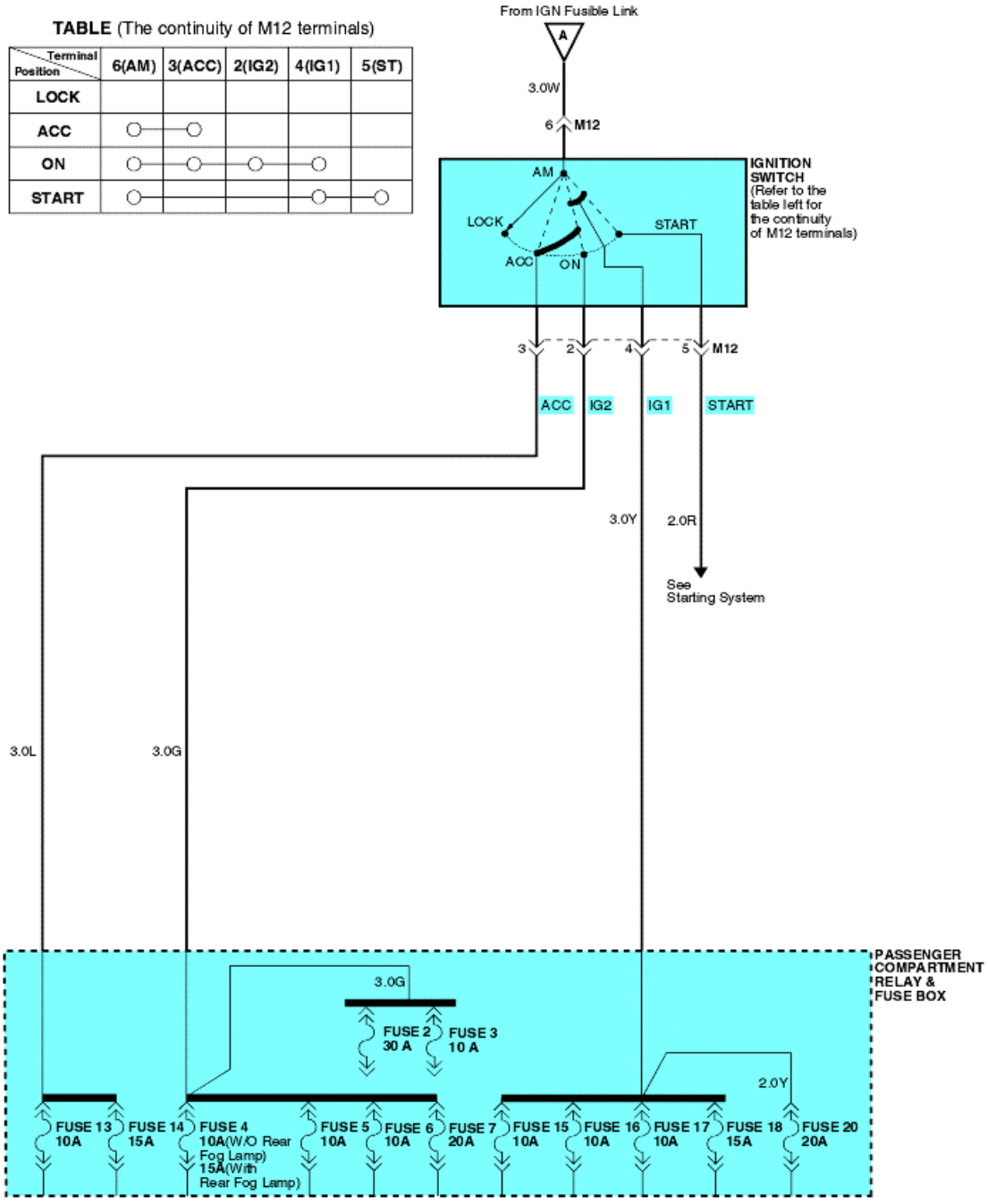
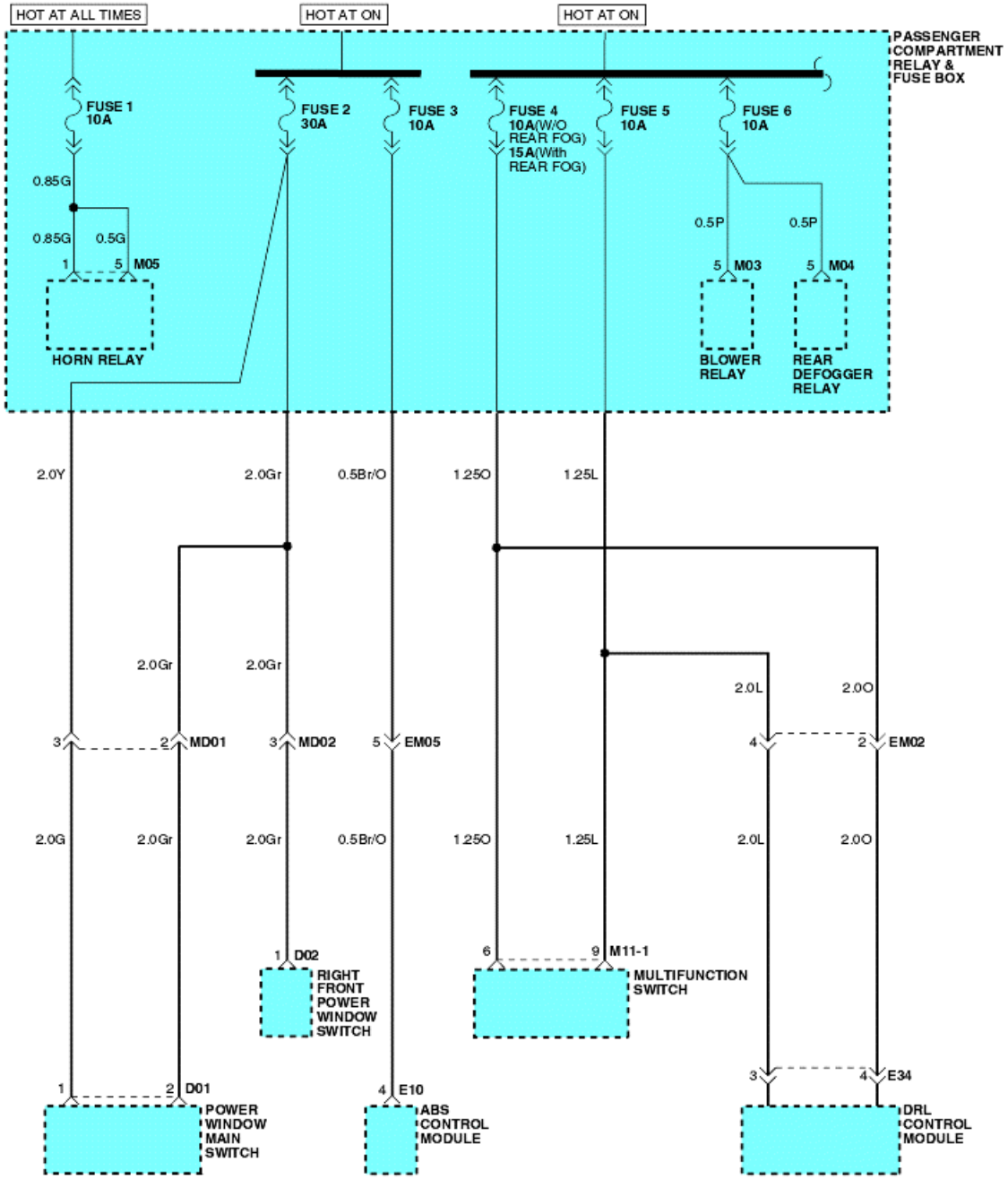

ENGINE COMPARTMENT RELAY & FUSE BOX
B+ FUSIBLE LINK 50A
H/LP FUSIBLE LINK 30A
ABS FUSIBLE LINK 20A
RAD FUSIBLE LINK 30A
W/O DRL
With DRL
3.0R
2.0P
2.0P
2.0P
2.0P
2.0P
2.0 L
2.0Gr
5
1
E05
TAIL LAMP RELAY
3
2
E05
F/FOG FUSE 15A
0.85O
1
E03
FRONT FOG LAMP RELAY
0.3Br
2.0Y
2.0G
LH LP FUSE 10A
RH LP FUSE 10A
1
E02
RADIATOR FAN RELAY
9
E10
ABS CONTROL MODULE
See Tail, Parking & License Lamps
See Illuminations
1
EM03
3.0R
PASSENGER COMPARTMENT RELAY & FUSE BOX
2.0R
FUSE 1 10A
3.0R
0.85G
0.85G
0.5G
1
5
M05
HORN RELAY
FUSE 8 15A
FUSE 9 10 A
FUSE 10 10 A
FUSE 11 20 A
FUSE 12 10 A

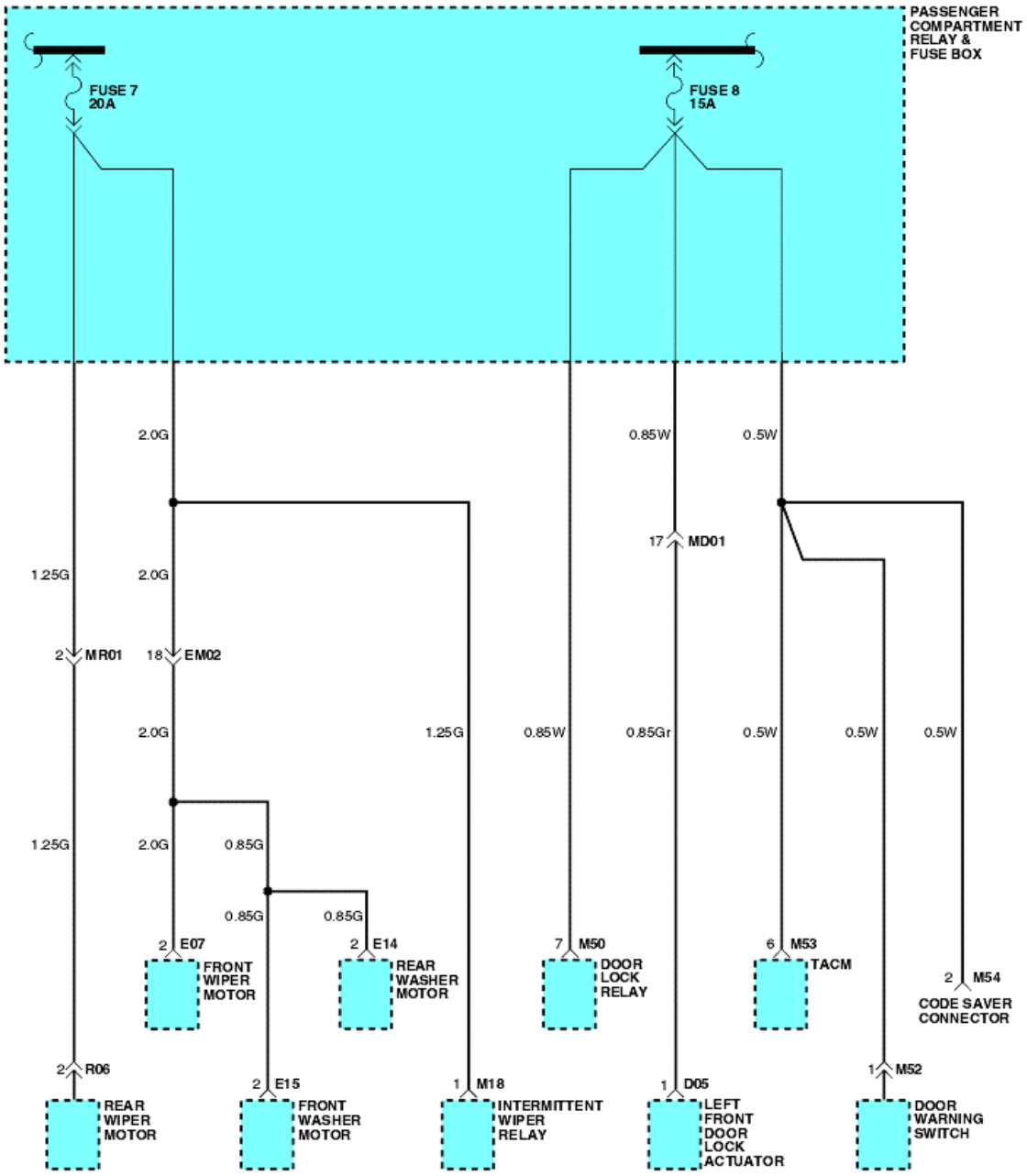
TABLE (The continuity of M12 terminals)

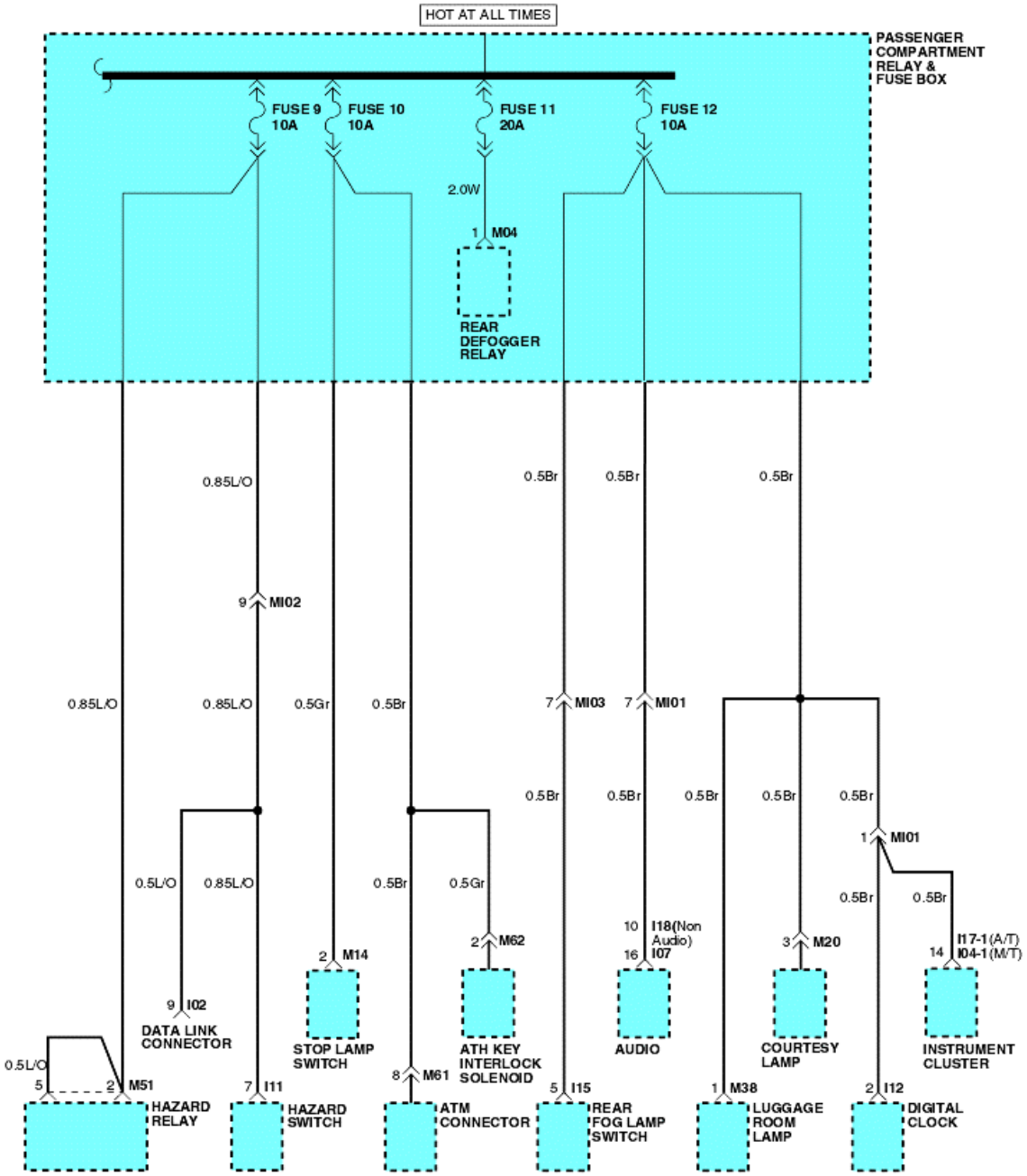
Terminal / Position	6(AM)	3(ACC)	2(IG2)	4(IG1)	5(ST)
LOCK					
ACC	○—○				
ON	○—○	○—○	○—○		
START	○			○—○	○

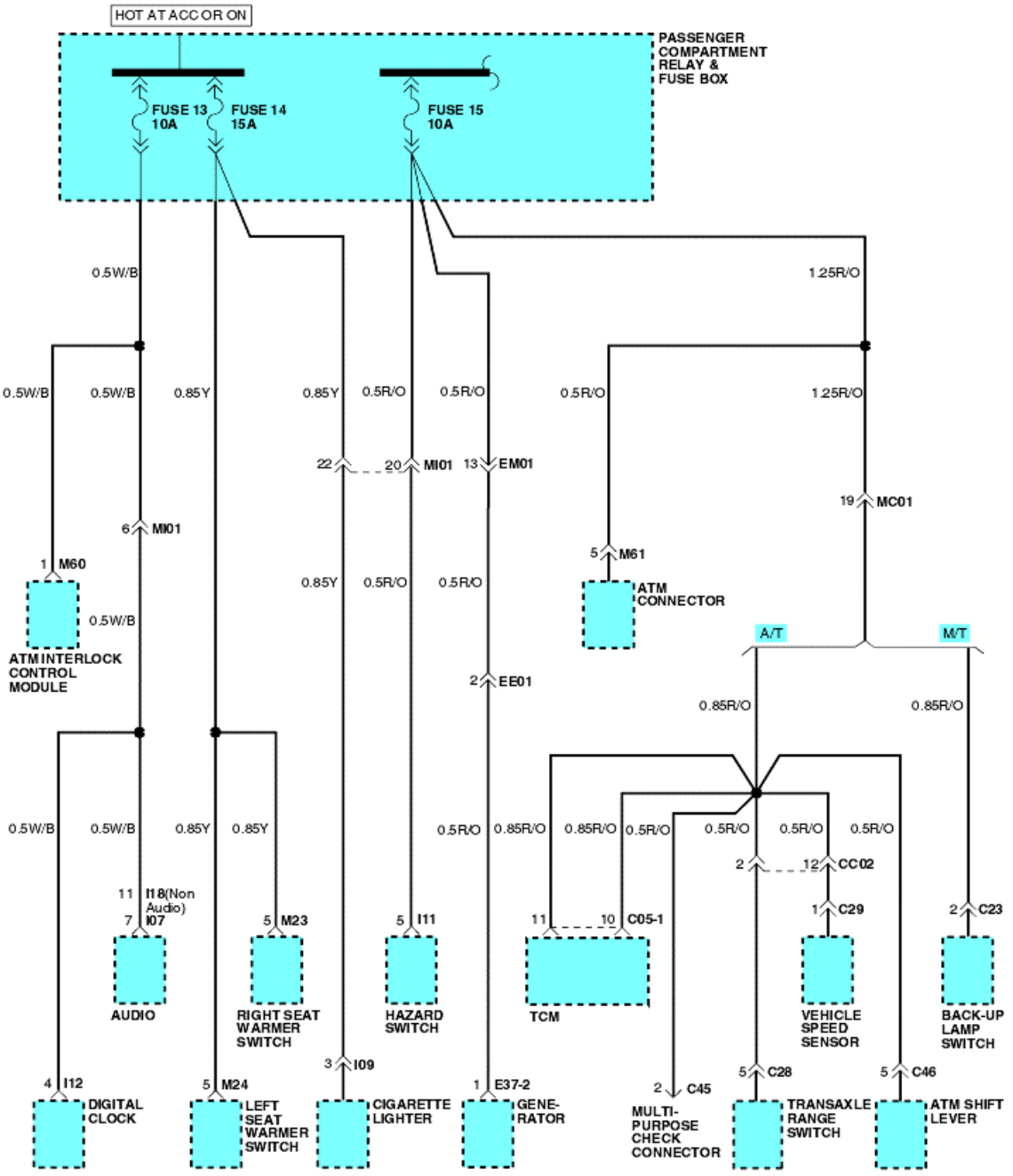


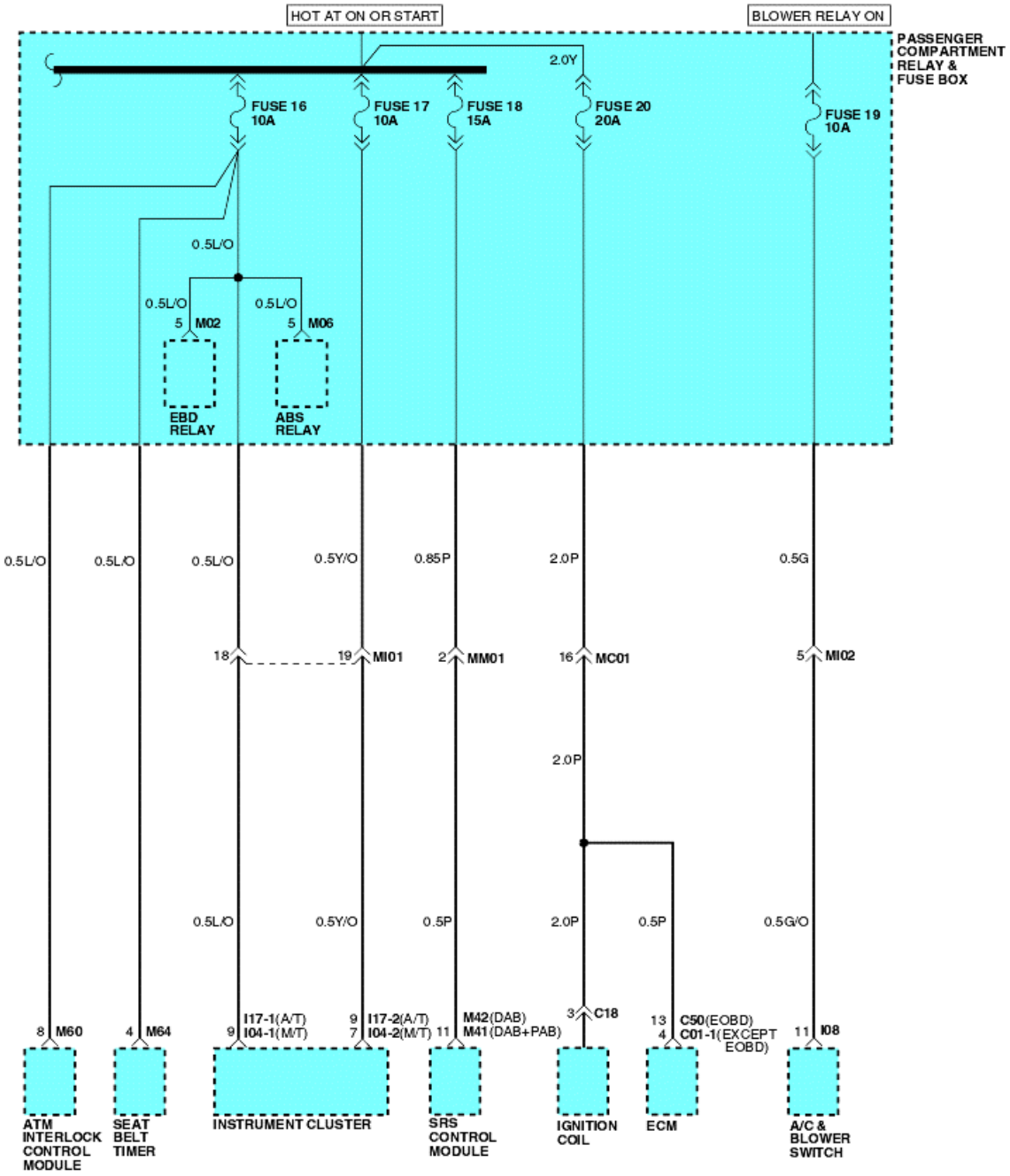
MEMO


HOT AT ALL TIMES
HOT AT ON
HOT AT ON
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 1 10A
FUSE 2 30A
FUSE 3 10A
FUSE 4 10A(W/O REAR FOG) 15A(With REAR FOG)
FUSE 5 10A
FUSE 6 10A
0.85G
0.85G
0.5G
1
5
M05
HORN RELAY
0.5P
0.5P
5
M03
5
M04
BLOWER RELAY
REAR DEFOGGER RELAY
2.0Y
2.0Gr
0.5Br/O
1.25O
1.25L
2.0Gr
2.0Gr
2.0L
2.0O
3
2
MD01
3
MD02
5
EM05
4
2
EM02
2.0G
2.0Gr
2.0Gr
0.5Br/O
1.25O
1.25L
2.0L
2.0O
1
D02
RIGHT FRONT POWER WINDOW SWITCH
6
9
M11-1
MULTIFUNCTION SWITCH
1
2
D01
POWER WINDOW MAIN SWITCH
4
E10
ABS CONTROL MODULE
3
4
E34
DRL CONTROL MODULE

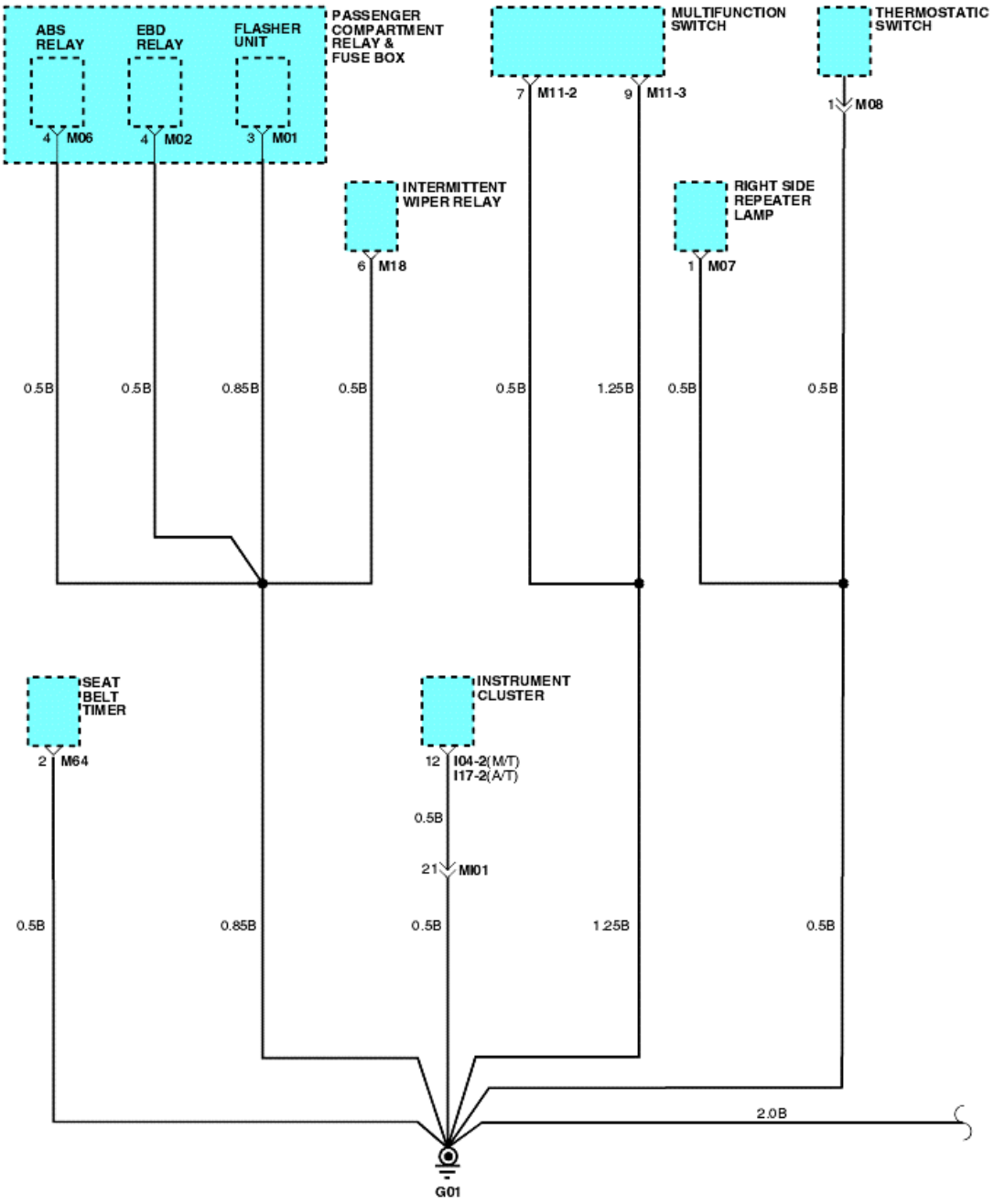

PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 7 20A
FUSE 8 15A
2.0G
0.85W
0.5W
17 MD01
1.25G
2.0G
2 MR01
18 EM02
2.0G
1.25G
0.85W
0.85Gr
0.5W
0.5W
0.5W
1.25G
2.0G
0.85G
0.85G
0.85G
2 E07
FRONT WIPER MOTOR
2 E14
REAR WASHER MOTOR
7 M50
DOOR LOCK RELAY
6 M53
TACM
2 M54
CODE SAVER CONNECTOR
2 R06
REAR WIPER MOTOR
2 E15
FRONT WASHER MOTOR
1 M18
INTERMITTENT WIPER RELAY
1 D05
LEFT FRONT DOOR LOCK ACTUATOR
1 M52
DOOR WARNING SWITCH

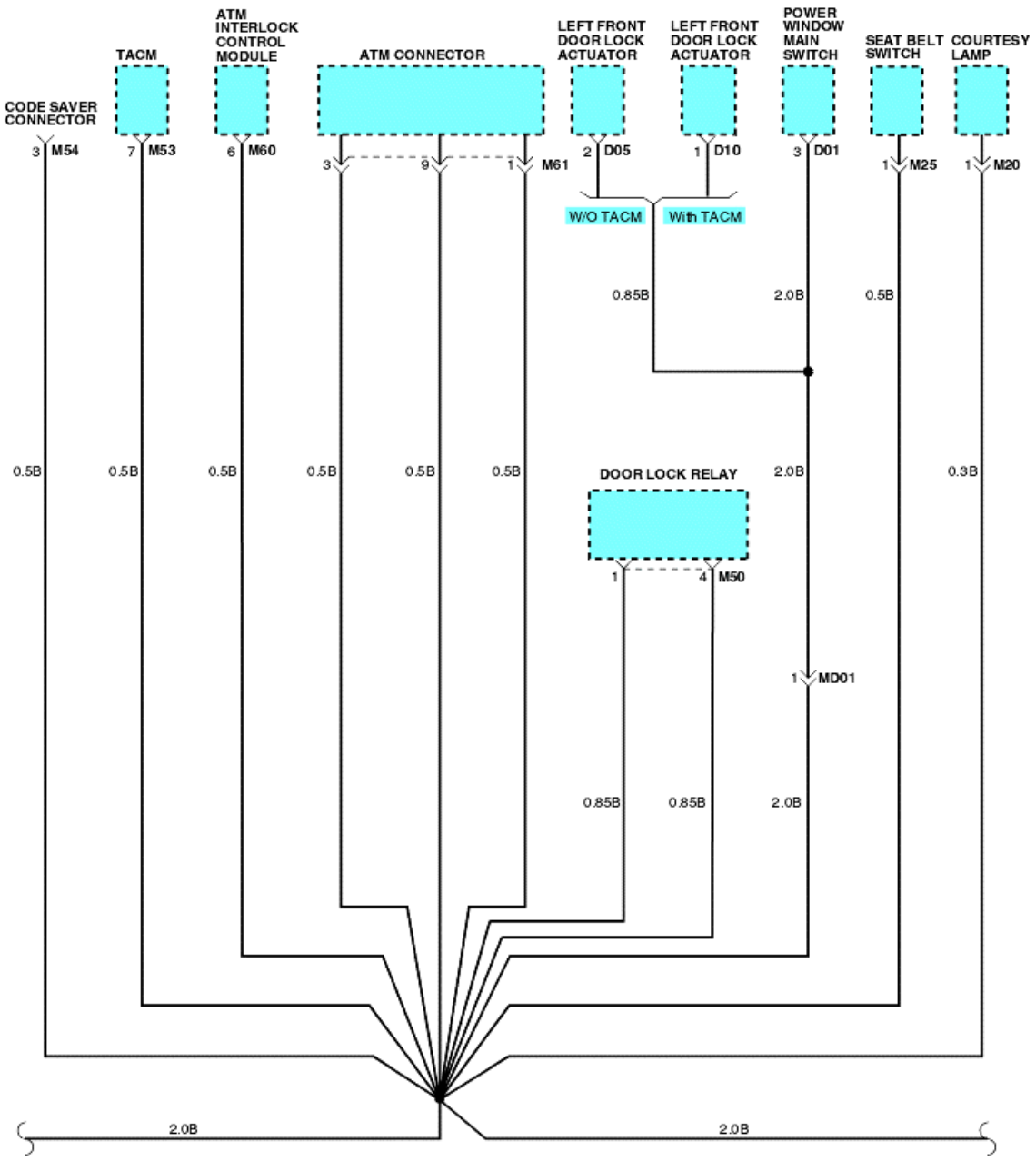

HOT AT ALL TIMES
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 9 10A
FUSE 10 10A
FUSE 11 20A
FUSE 12 10A
2.0W
1 M04
REAR DEFOGGER RELAY
0.85L/O
0.5Br
0.5Br
0.5Br
9 MI02
0.85L/O
0.85L/O
0.5Gr
0.5Br
7 MI03
7 MI01
0.5Br
0.5Br
0.5Br
0.5Br
0.5Br
1 MI01
0.5L/O
0.85L/O
0.5Br
0.5Gr
0.5Br
0.5Br
9 I02
DATA LINK CONNECTOR
2 M14
STOP LAMP SWITCH
2 M62
ATH KEY INTERLOCK SOLENOID
10 I18(Non Audio)
16 I07
AUDIO
3 M20
COURTESY LAMP
14 I17-1(A/T) I04-1(M/T)
INSTRUMENT CLUSTER
0.5L/O
5
2 M51
HAZARD RELAY
7 I11
HAZARD SWITCH
8 M61
ATM CONNECTOR
5 I15
REAR FOG LAMP SWITCH
1 M38
LUGGAGE ROOM LAMP
2 I12
DIGITAL CLOCK

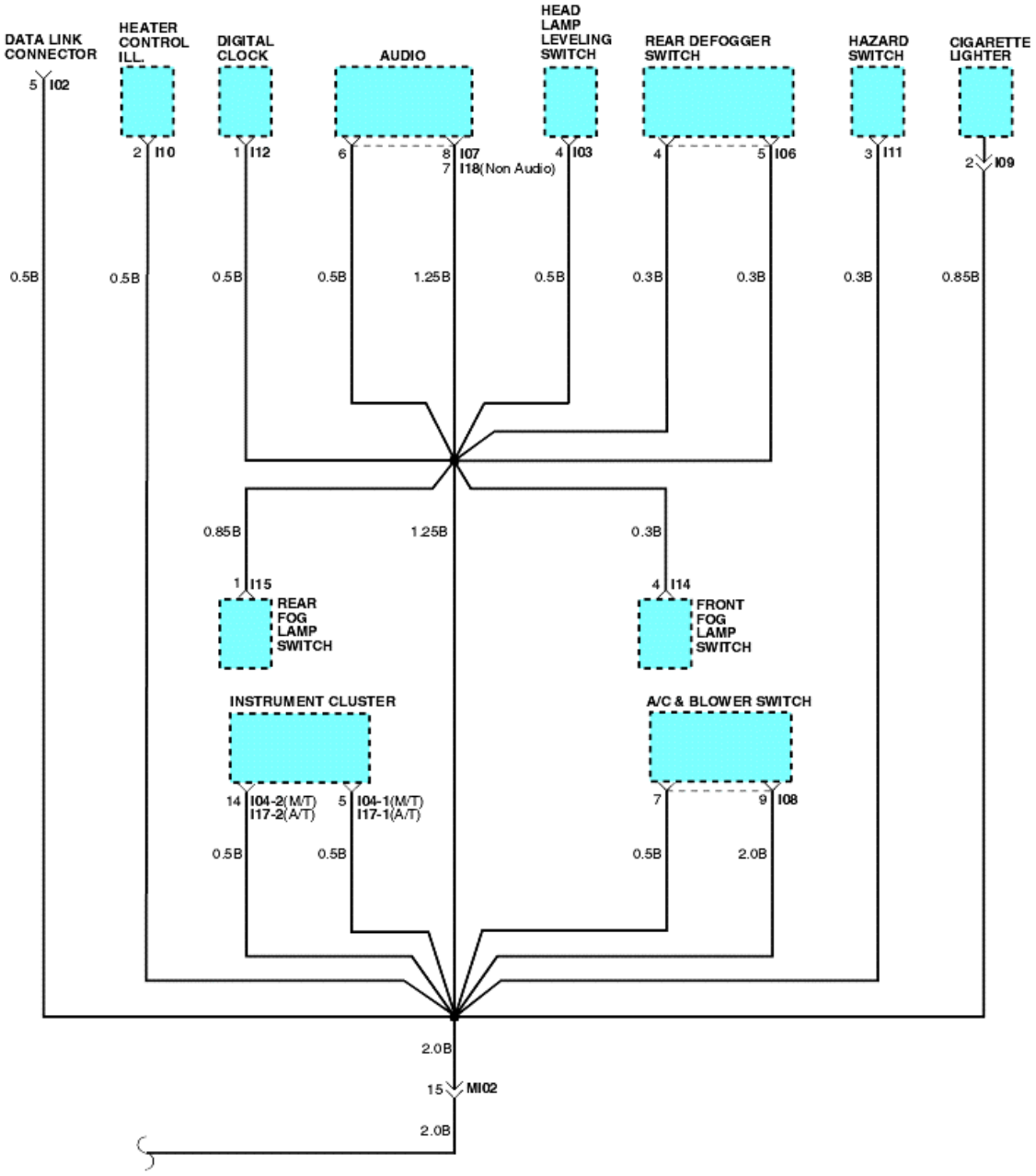

HOT AT ACC OR ON
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 13 10A
FUSE 14 15A
FUSE 15 10A
0.5W/B
1.25R/O
0.5W/B
0.5W/B
0.85Y
0.85Y
0.5R/O
0.5R/O
0.5R/O
1.25R/O
22
20 MI01
13 EM01
19 MC01
6 MI01
5 M61
1 M60
0.85Y
0.5R/O
0.5R/O
ATM CONNECTOR
0.5W/B
ATM INTERLOCK CONTROL MODULE
A/T
M/T
2 EE01
0.85R/O
0.85R/O
0.5W/B
0.5W/B
0.85Y
0.85Y
0.5R/O
0.85R/O
0.85R/O
0.5R/O
0.5R/O
0.5R/O
0.5R/O
2
12 CC02
11 I18(Non Audio)
7 I07
5 M23
5 I11
11
10 C05-1
1 C29
2 C23
AUDIO
RIGHT SEAT WARMER SWITCH
HAZARD SWITCH
TCM
VEHICLE SPEED SENSOR
BACK-UP LAMP SWITCH
3 I09
4 I12
5 M24
1 E37-2
2 C45
5 C28
5 C46
DIGITAL CLOCK
LEFT SEAT WARMER SWITCH
CIGARETTE LIGHTER
GENE-RATOR
MULTI-PURPOSE CHECK CONNECTOR
TRANSAXLE RANGE SWITCH
ATM SHIFT LEVER

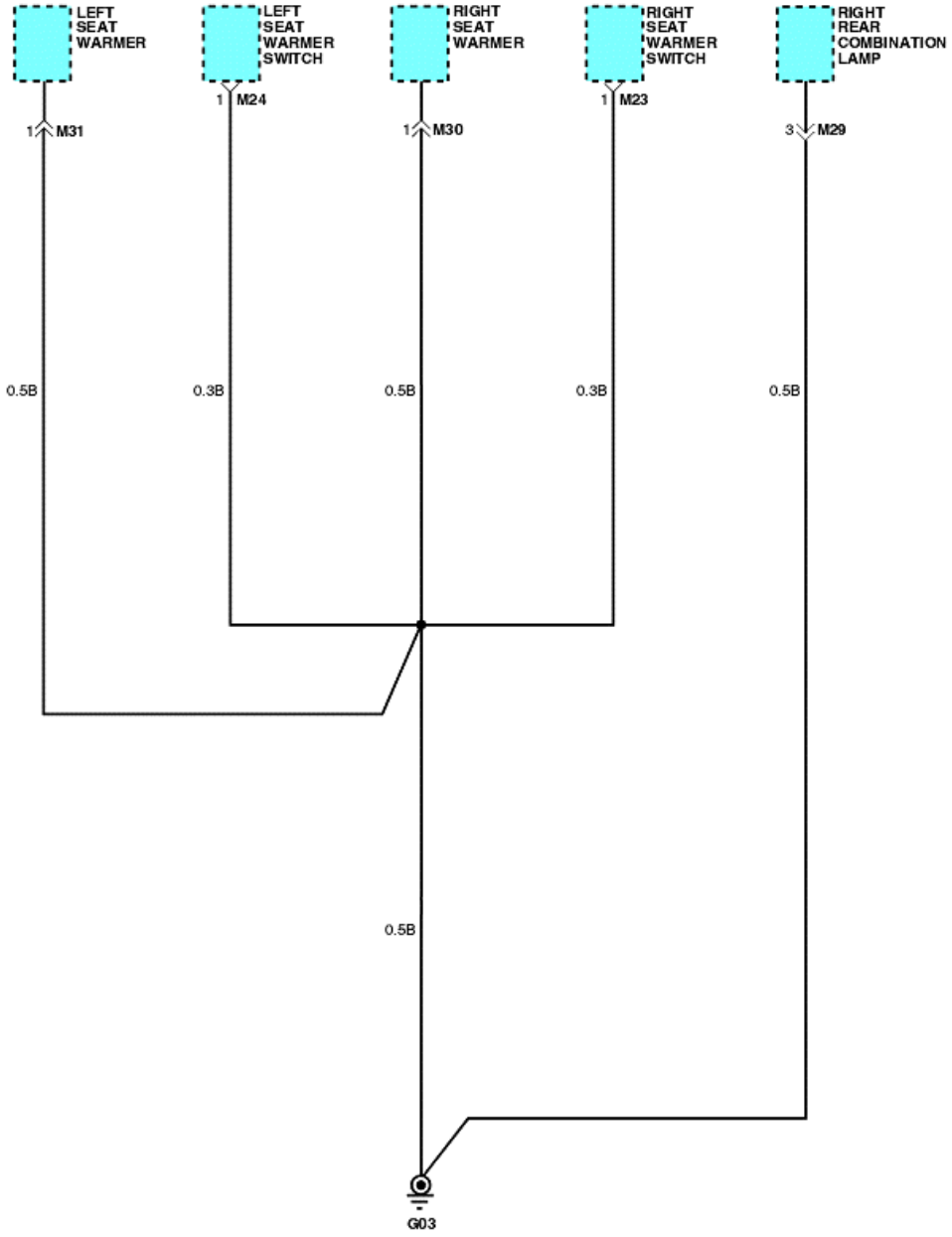

HOT AT ON OR START
BLOWER RELAY ON
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 16 10A
FUSE 17 10A
FUSE 18 15A
FUSE 20 20A
FUSE 19 10A
2.0Y
0.5L/O
0.5L/O
5 M02
0.5L/O
5 M06
EBD RELAY
ABS RELAY
0.5L/O
0.5L/O
0.5L/O
0.5Y/O
0.85P
2.0P
0.5G
18
19 MI01
2 MM01
16 MC01
5 MI02
2.0P
0.5L/O
0.5Y/O
0.5P
2.0P
0.5P
0.5G/O
8 M60
4 M64
9 I17-1(A/T) I04-1(M/T)
9 I17-2(A/T) 7 I04-2(M/T)
11 M42(DAB) M41(DAB+PAB)
3 C18
13 C50(EOBD) 4 C01-1(EXCEPT EOBD)
11 I08
ATM INTERLOCK CONTROL MODULE
SEAT BELT TIMER
INSTRUMENT CLUSTER
SRS CONTROL MODULE
IGNITION COIL
ECM
A/C & BLOWER SWITCH

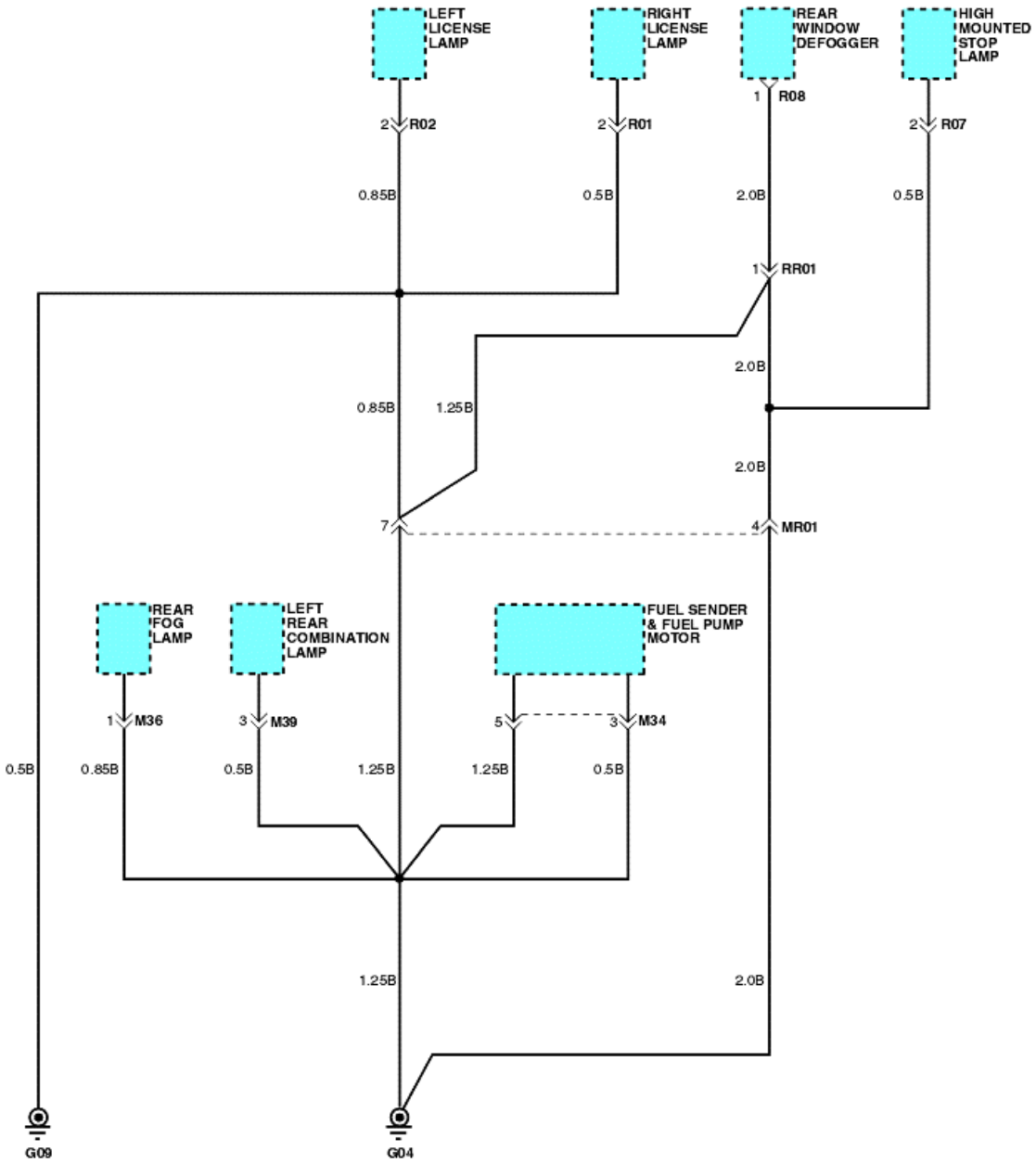
MEMO

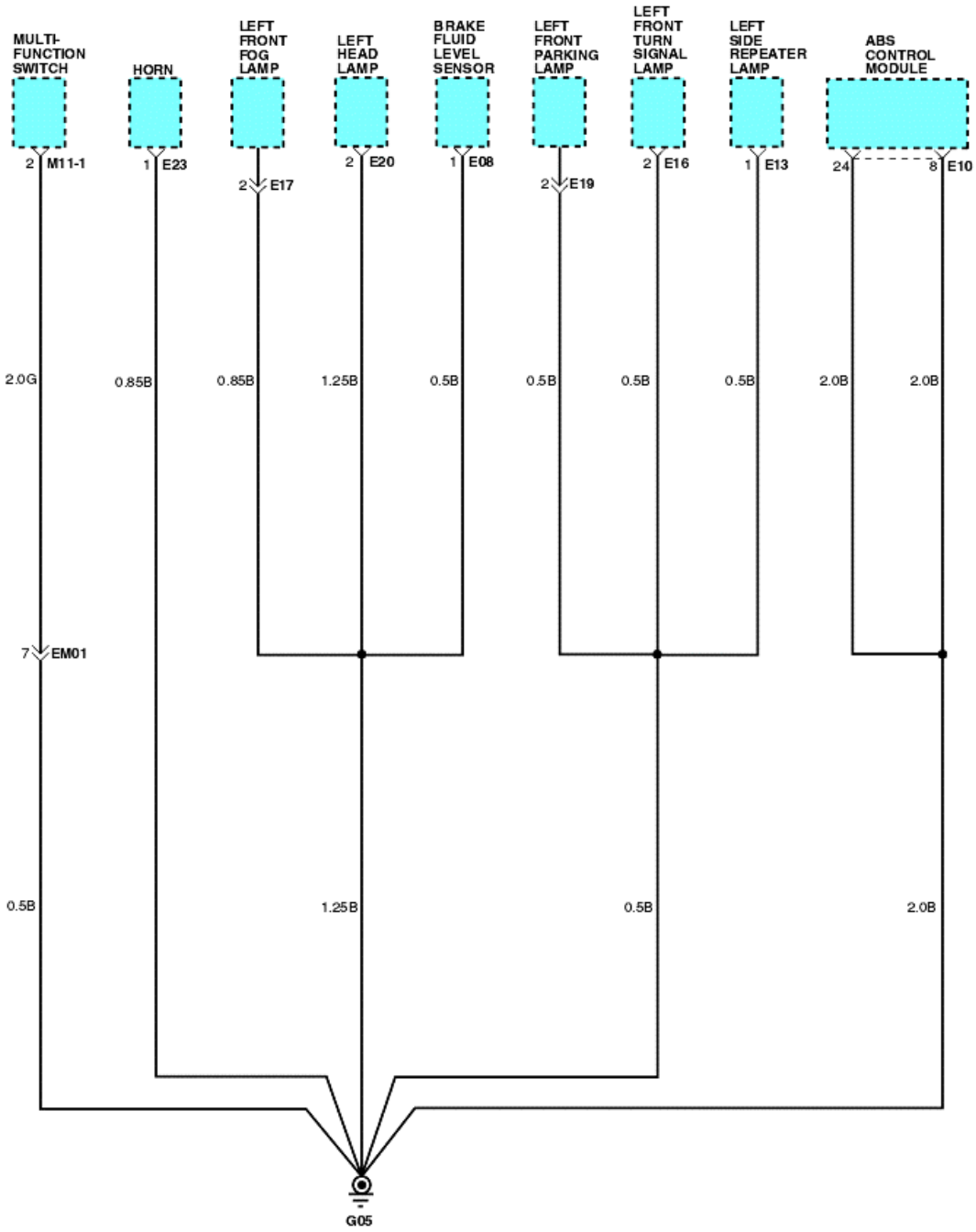

ABS RELAY
EBD RELAY
FLASHER UNIT
PASSENGER COMPARTMENT RELAY & FUSE BOX
4 M06
4 M02
3 M01
MULTIFUNCTION SWITCH
7 M11-2
9 M11-3
THERMOSTATIC SWITCH
1 M08
INTERMITTENT WIPER RELAY
6 M18
RIGHT SIDE REPEATER LAMP
1 M07
0.5B
0.5B
0.85B
0.5B
0.5B
1.25B
0.5B
0.5B
SEAT BELT TIMER
2 M64
INSTRUMENT CLUSTER
12 I04-2(M/T) I17-2(A/T)
0.5B
21 MI01
0.5B
0.85B
0.5B
1.25B
0.5B
2.0B
G01

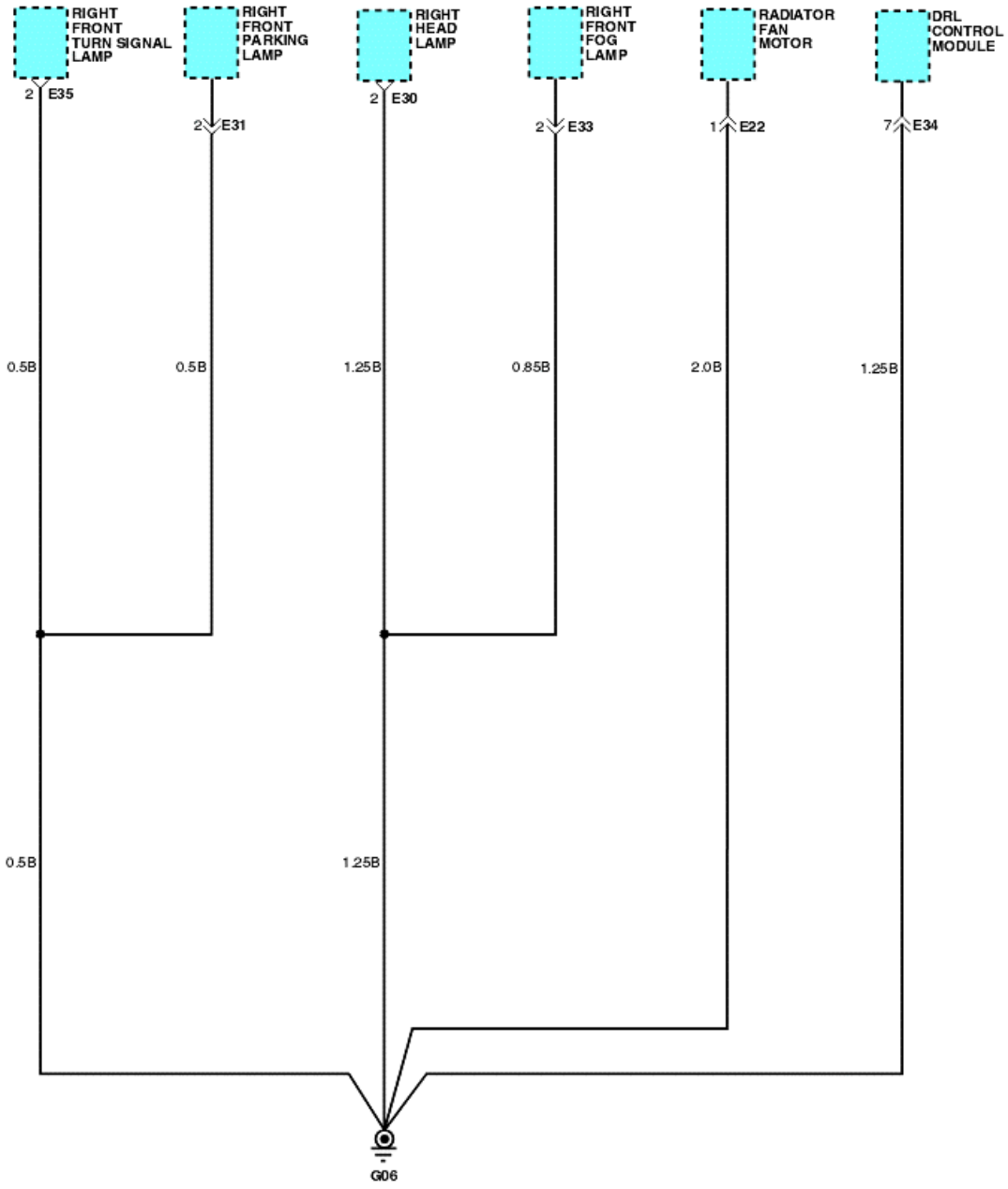

CODE SAVER CONNECTOR
TACM
ATM INTERLOCK CONTROL MODULE
ATM CONNECTOR
LEFT FRONT DOOR LOCK ACTUATOR
LEFT FRONT DOOR LOCK ACTUATOR
POWER WINDOW MAIN SWITCH
SEAT BELT SWITCH
COURTESY LAMP
3 M54
7 M53
6 M60
3
9
1 M61
2 D05
1 D10
3 D01
1 M25
1 M20
W/O TACM
With TACM
0.85B
2.0B
0.5B
0.5B
0.5B
0.5B
0.5B
0.5B
0.5B
DOOR LOCK RELAY
2.0B
0.3B
1
4 M50
1 MD01
0.85B
0.85B
2.0B
2.0B
2.0B

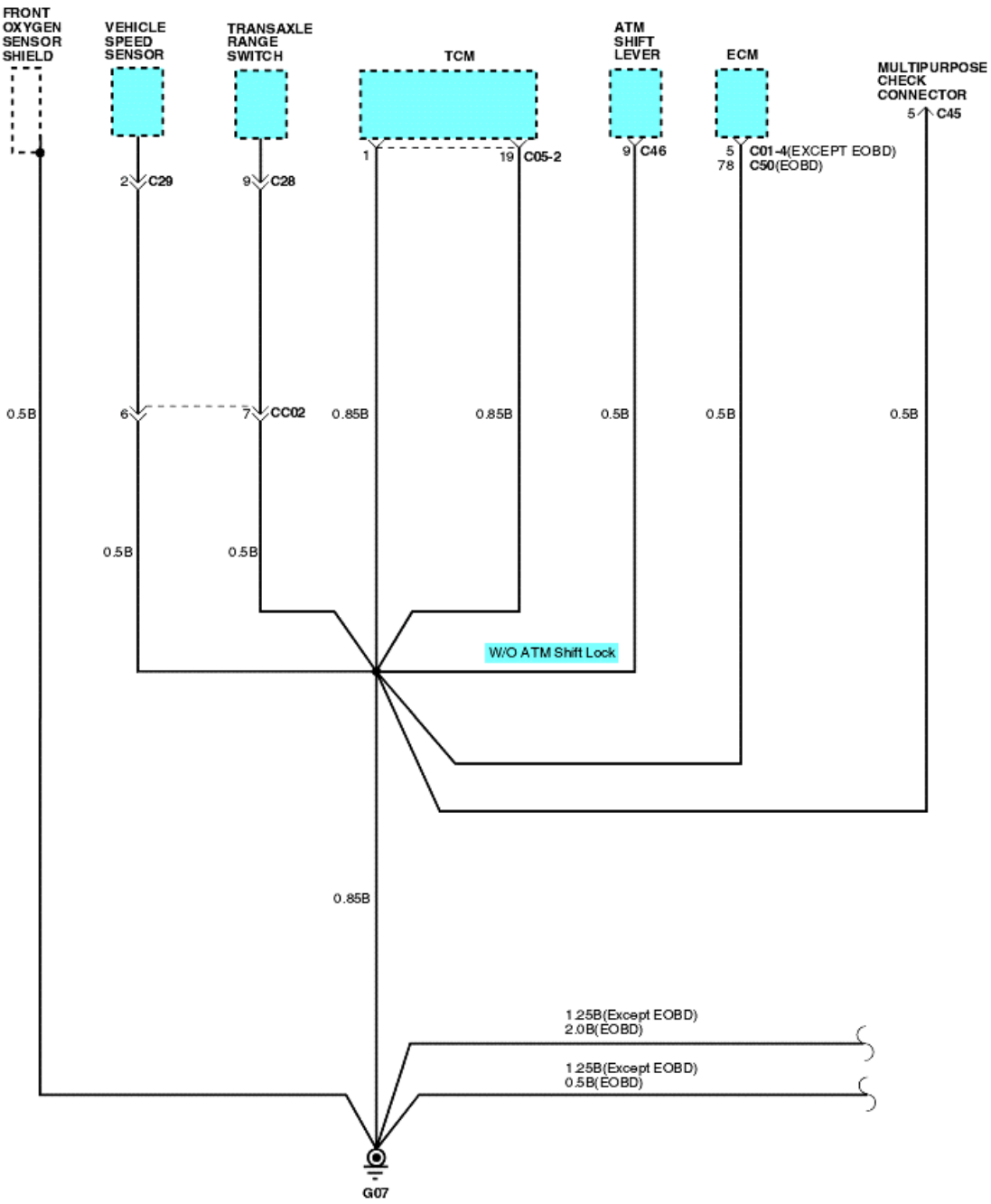

DATA LINK CONNECTOR
5 I02
HEATER CONTROL ILL.
2 I10
DIGITAL CLOCK
1 I12
AUDIO
6
8 I07
7 I18(Non Audio)
HEAD LAMP LEVELING SWITCH
4 I03
REAR DEFOGGER SWITCH
4
5 I06
HAZARD SWITCH
3 I11
CIGARETTE LIGHTER
2 I09
0.5B
0.5B
0.5B
0.5B
1.25B
0.5B
0.3B
0.3B
0.3B
0.85B
0.85B
1.25B
0.3B
1 I15
REAR FOG LAMP SWITCH
4 I14
FRONT FOG LAMP SWITCH
INSTRUMENT CLUSTER
14 I04-2(M/T) I17-2(A/T)
5 I04-1(M/T) I17-1(A/T)
A/C & BLOWER SWITCH
7
9 I08
0.5B
0.5B
0.5B
2.0B
2.0B
15 MI02
2.0B

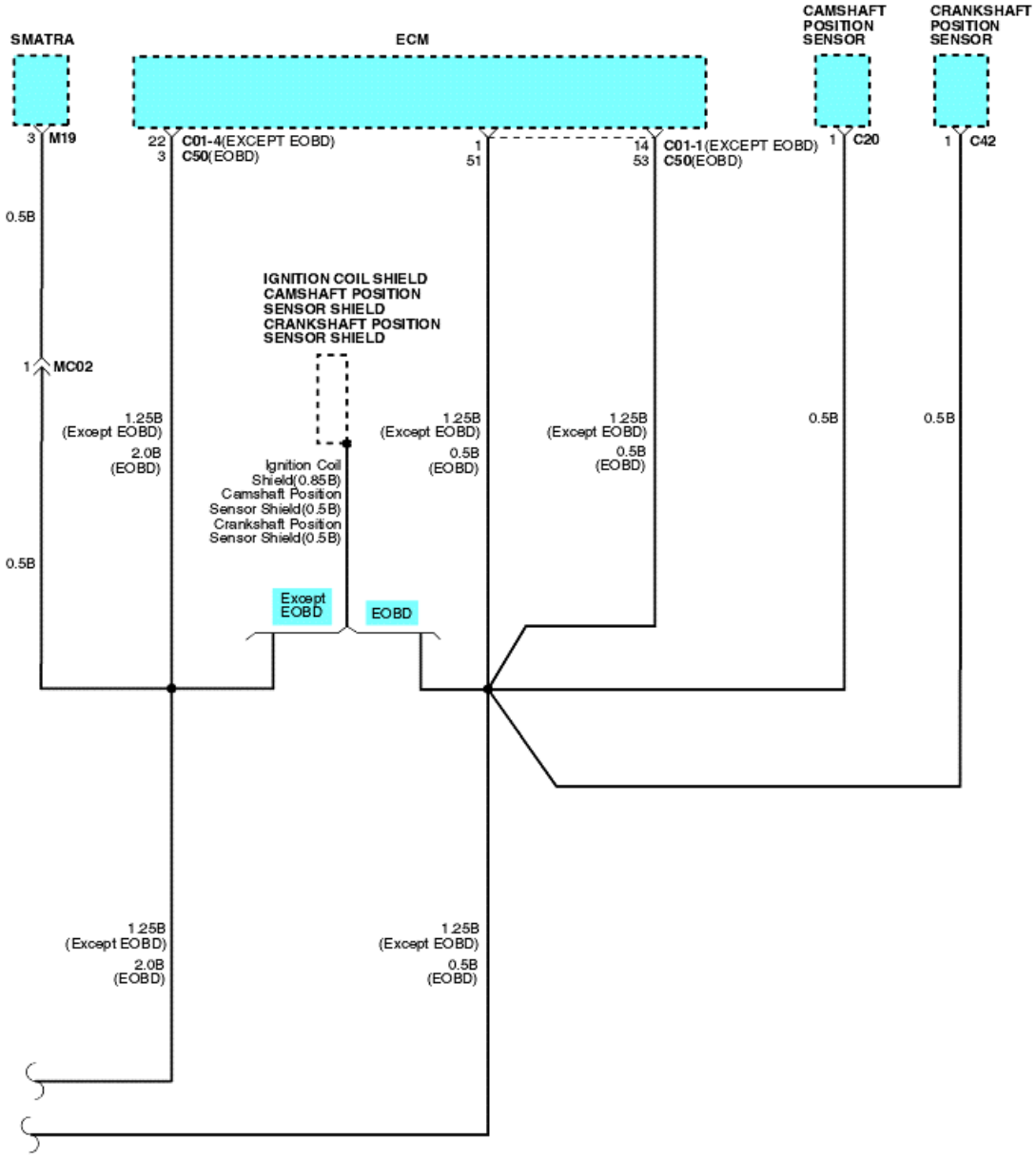

LEFT SEAT WARMER
LEFT SEAT WARMER SWITCH
RIGHT SEAT WARMER
RIGHT SEAT WARMER SWITCH
RIGHT REAR COMBINATION LAMP
1 M31
1 M24
1 M30
1 M23
3 M29
0.5B
0.3B
0.5B
0.3B
0.5B
0.5B
G03

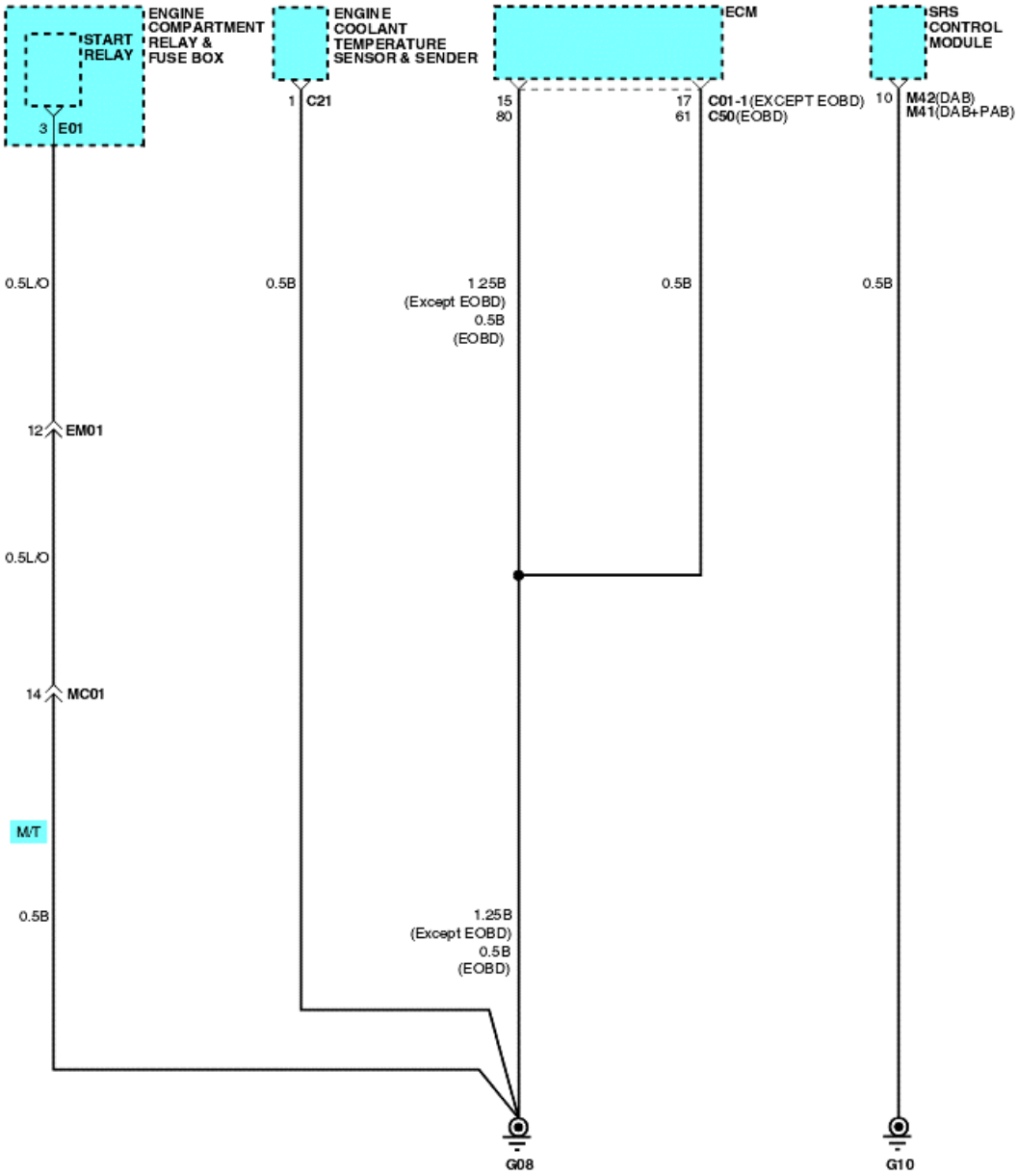

LEFT LICENSE LAMP
RIGHT LICENSE LAMP
REAR WINDOW DEFOGGER
HIGH MOUNTED STOP LAMP
1 R08
2 R02
2 R01
2 R07
0.85B
0.5B
2.0B
0.5B
1 RR01
2.0B
0.85B
1.25B
2.0B
7
4 MR01
REAR FOG LAMP
LEFT REAR COMBINATION LAMP
FUEL SENDER & FUEL PUMP MOTOR
1 M36
3 M39
5
3 M34
0.5B
0.85B
0.5B
1.25B
1.25B
0.5B
1.25B
2.0B
G09
G04

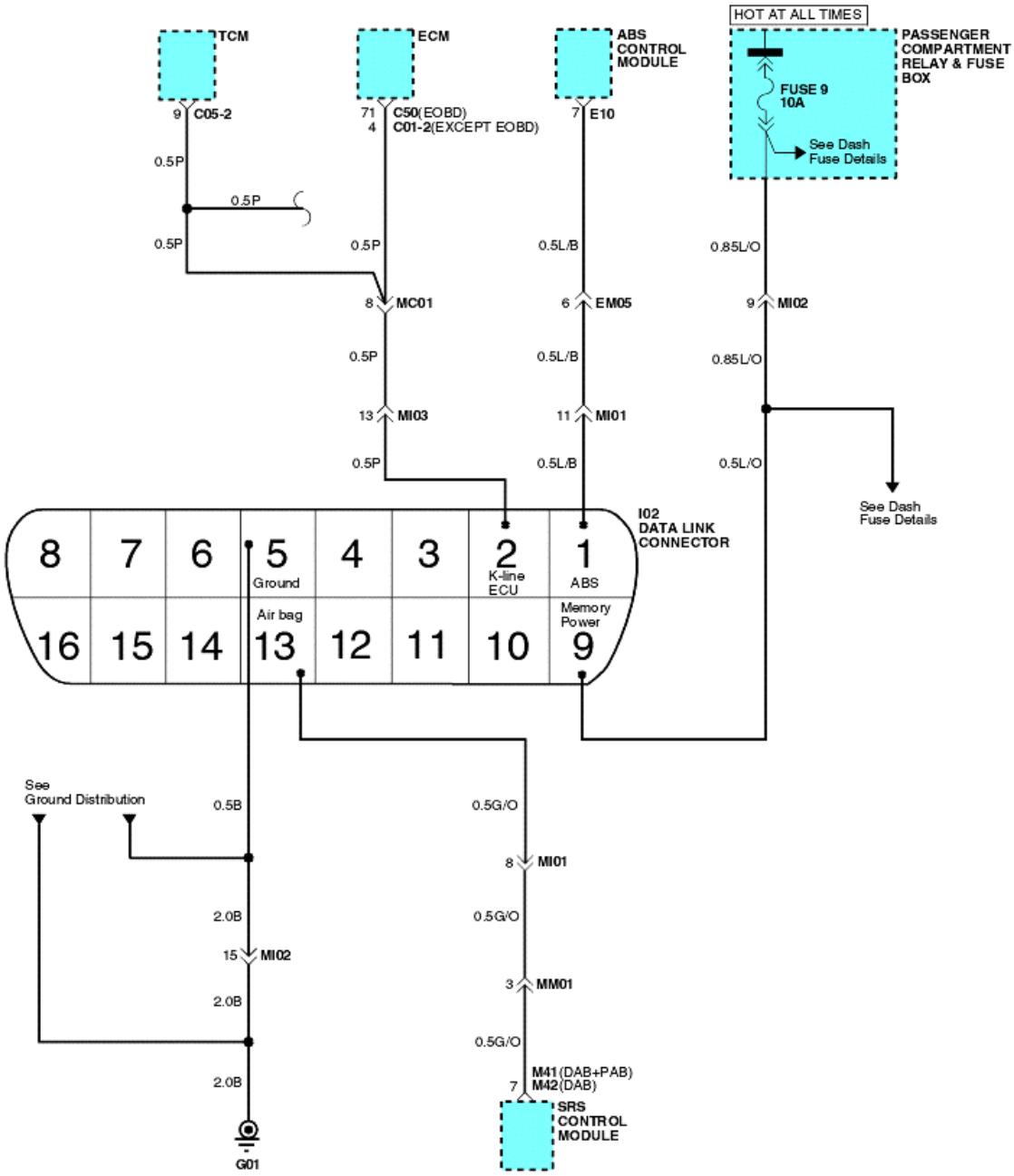

MULTI-
FUNCTION
SWITCH
HORN
LEFT
FRONT
FOG
LAMP
LEFT
HEAD
LAMP
BRAKE
FLUID
LEVEL
SENSOR
LEFT
FRONT
PARKING
LAMP
LEFT
FRONT
TURN
SIGNAL
LAMP
LEFT
SIDE
REPEATER
LAMP
ABS
CONTROL
MODULE
2 M11-1
1 E23
2 E17
2 E20
1 E08
2 E19
2 E16
1 E13
24
8 E10
2.0G
0.85B
0.85B
1.25B
0.5B
0.5B
0.5B
0.5B
2.0B
2.0B
7 EM01
0.5B
1.25B
0.5B
2.0B
G05

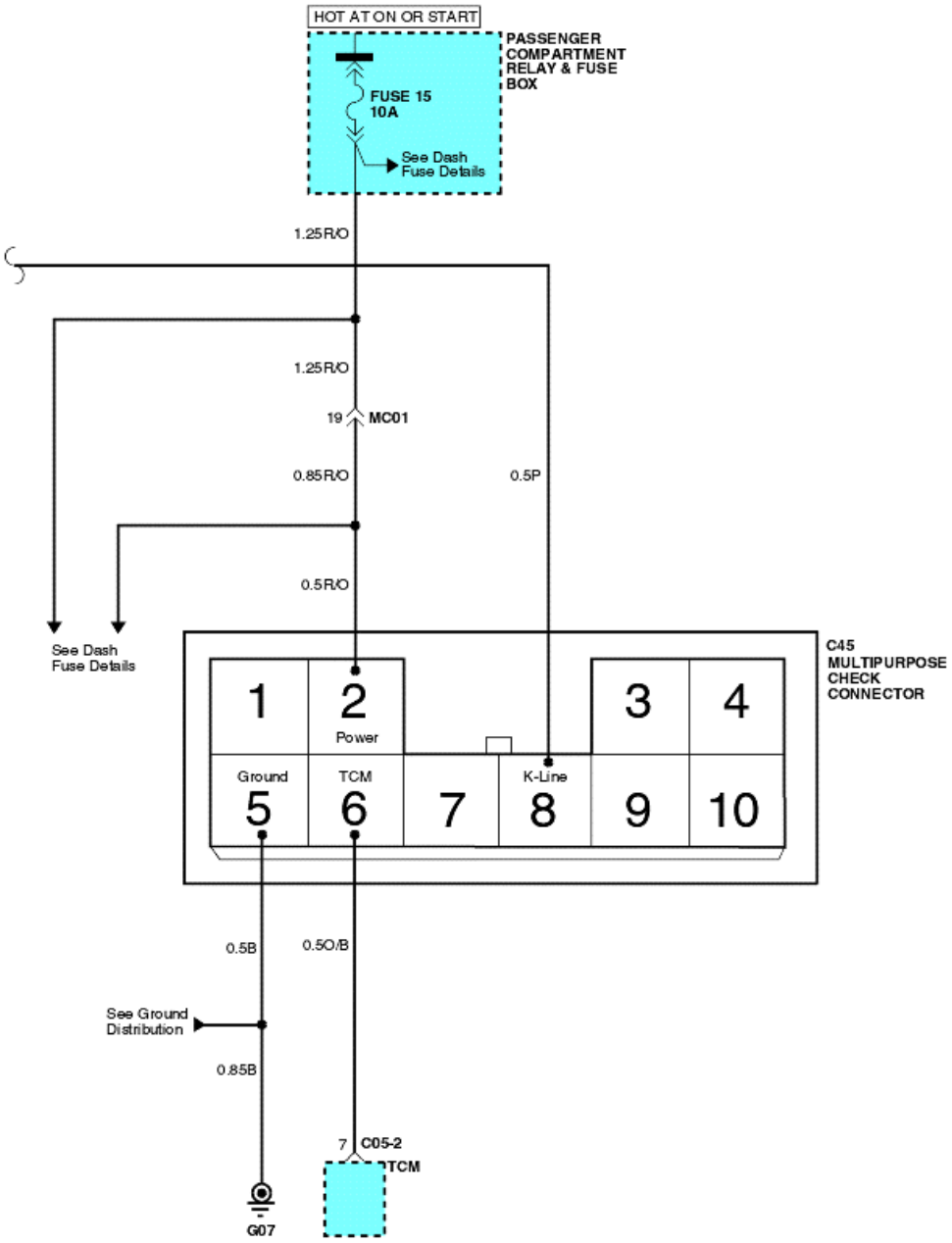

RIGHT FRONT TURN SIGNAL LAMP
RIGHT FRONT PARKING LAMP
RIGHT HEAD LAMP
RIGHT FRONT FOG LAMP
RADIATOR FAN MOTOR
DRL CONTROL MODULE
2 E35
2 E31
2 E30
2 E33
1 E22
7 E34
0.5B
0.5B
1.25B
0.85B
2.0B
1.25B
0.5B
1.25B
G06

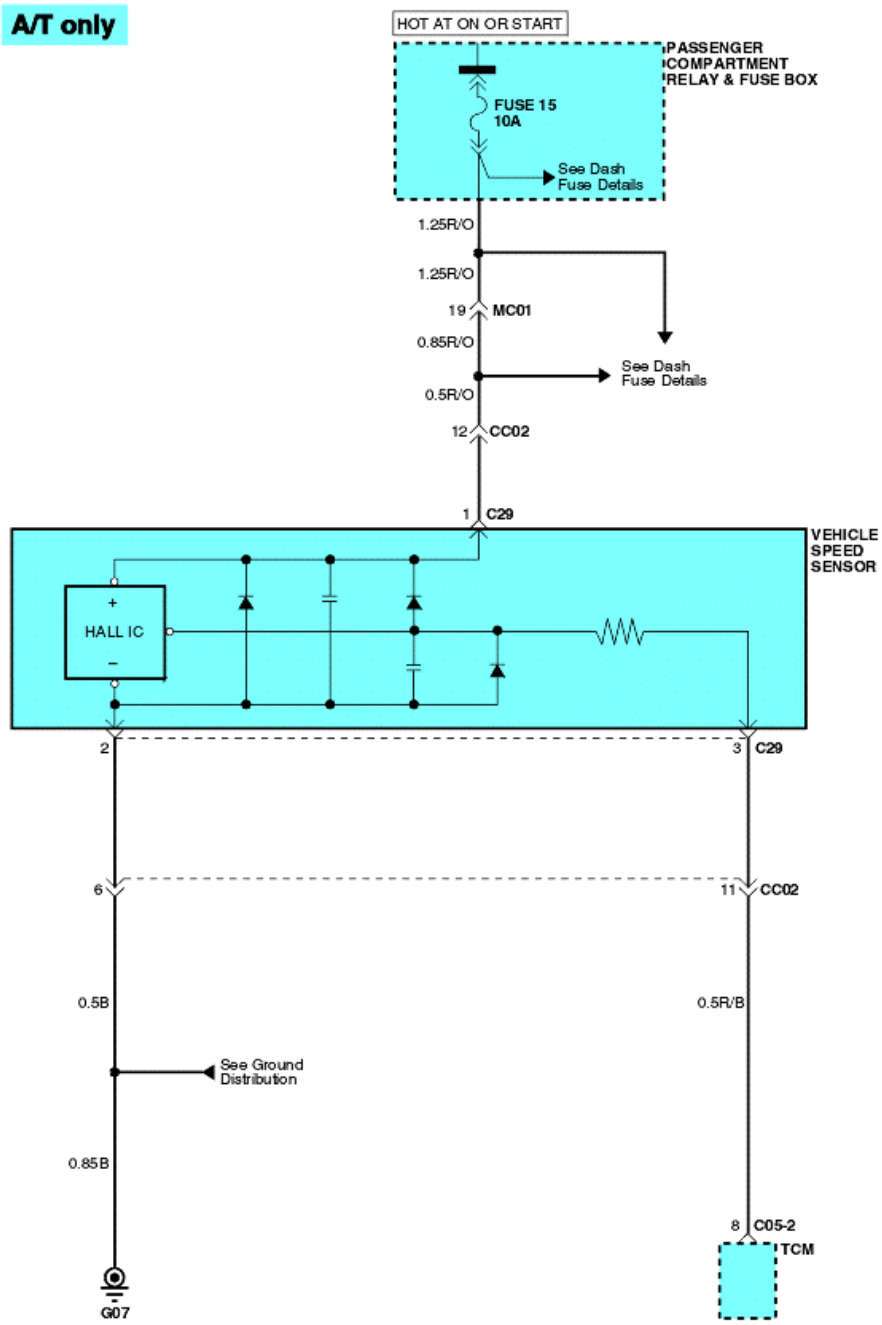

FRONT OXYGEN SENSOR SHIELD
VEHICLE SPEED SENSOR
TRANSAXLE RANGE SWITCH
TCM
ATM SHIFT LEVER
ECM
MULTIPURPOSE CHECK CONNECTOR
5 C45
1
19 C05-2
9 C46
5 C01-4(EXCEPT EOBD)
78 C50(EOBD)
2 C29
9 C28
0.5B
6
7 CC02
0.85B
0.85B
0.5B
0.5B
0.5B
0.5B
0.5B
W/O ATM Shift Lock
0.85B
1.25B(Except EOBD)
2.0B(EOBD)
1.25B(Except EOBD)
0.5B(EOBD)
G07

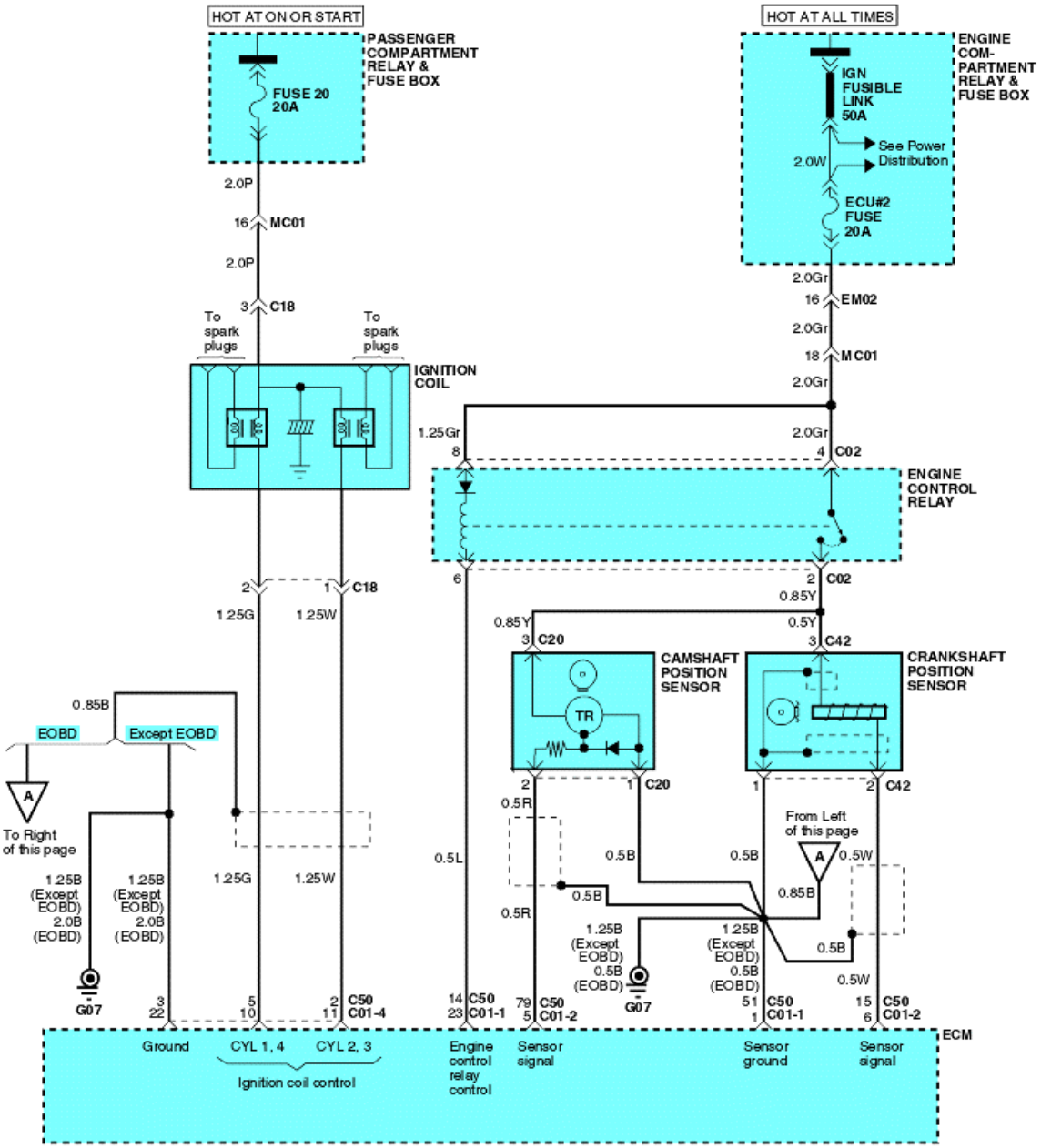

SMATRA
ECM
CAMSHAFT POSITION SENSOR
CRANKSHAFT POSITION SENSOR
3 M19
22 C01-4(EXCEPT EOBD)
3 C50(EOBD)
1
51
14 C01-1(EXCEPT EOBD)
53 C50(EOBD)
1 C20
1 C42
0.5B
IGNITION COIL SHIELD
CAMSHAFT POSITION SENSOR SHIELD
CRANKSHAFT POSITION SENSOR SHIELD
1 MC02
1.25B (Except EOBD)
2.0B (EOBD)
1.25B (Except EOBD)
0.5B (EOBD)
1.25B (Except EOBD)
0.5B (EOBD)
0.5B
0.5B
Ignition Coil Shield(0.85B)
Camshaft Position Sensor Shield(0.5B)
Crankshaft Position Sensor Shield(0.5B)
0.5B
Except EOBD
EOBD
1.25B (Except EOBD)
2.0B (EOBD)
1.25B (Except EOBD)
0.5B (EOBD)


ENGINE COMPARTMENT RELAY & FUSE BOX
START RELAY
3 E01
ENGINE COOLANT TEMPERATURE SENSOR & SENDER
1 C21
ECM
15
80
17
61
C01-1(EXCEPT EOBD)
C50(EOBD)
SRS CONTROL MODULE
10
M42(DAB)
M41(DAB+PAB)
0.5L/O
0.5B
1.25B
(Except EOBD)
0.5B
(EOBD)
0.5B
0.5B
12 EM01
0.5L/O
14 MC01
M/T
0.5B
1.25B
(Except EOBD)
0.5B
(EOBD)
G08
G10

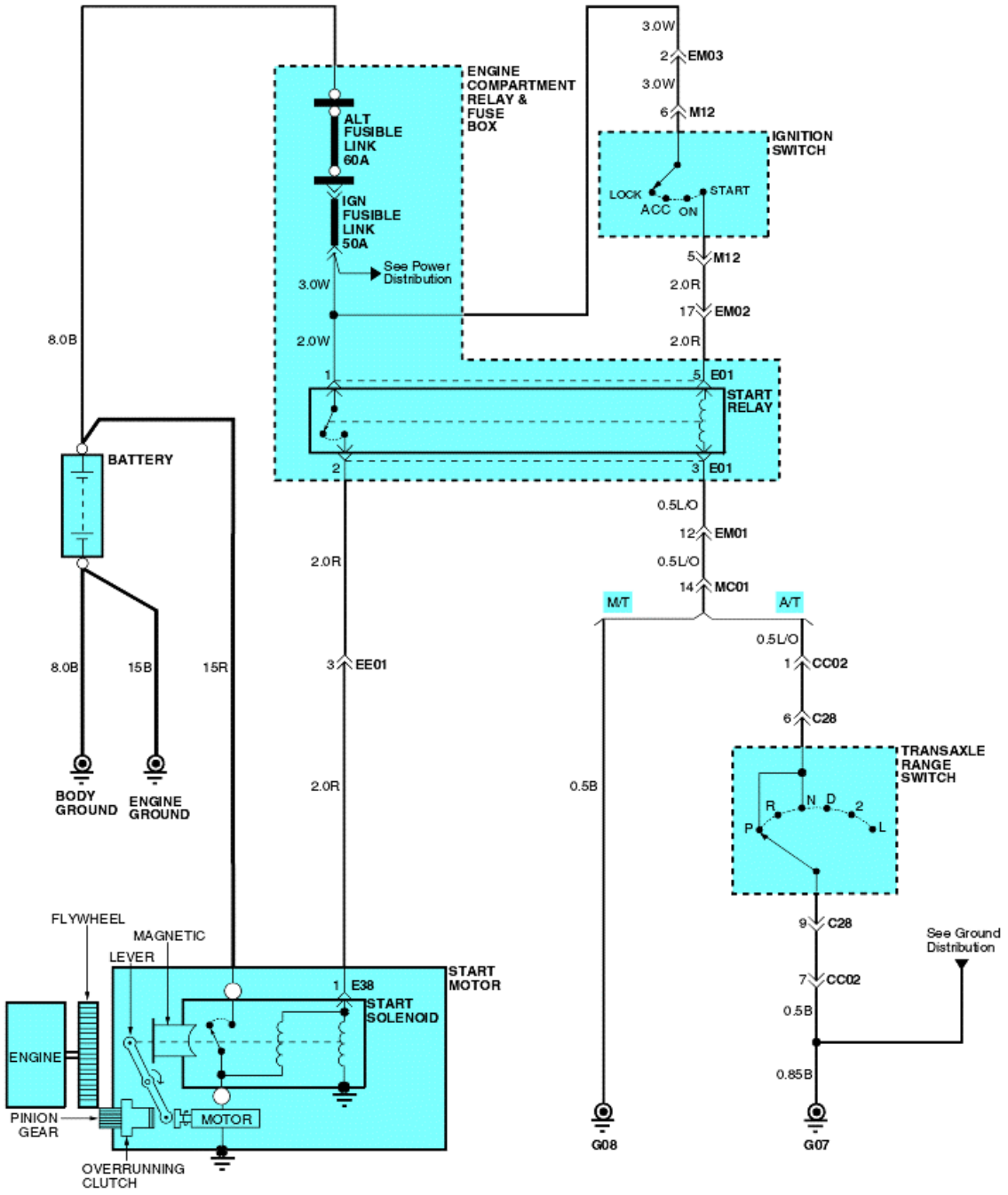

TCM
9 C05-2
0.5P
0.5P
0.5P
ECM
71 C50(EOBD)
4 C01-2(EXCEPT EOBD)
0.5P
8 MC01
0.5P
13 MI03
0.5P
ABS CONTROL MODULE
7 E10
0.5L/B
6 EM05
0.5L/B
11 MI01
0.5L/B
HOT AT ALL TIMES
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 9 10A
See Dash Fuse Details
0.85L/O
9 MI02
0.85L/O
0.5L/O
See Dash Fuse Details
I02 DATA LINK CONNECTOR
8 7 6 5 Ground 4 3 2 K-line ECU 1 ABS
16 15 14 Air bag 13 12 11 10 Memory Power 9
See Ground Distribution
0.5B
2.0B
15 MI02
2.0B
2.0B
G01
0.5G/O
8 MI01
0.5G/O
3 MM01
0.5G/O
7 M41(DAB+PAB) M42(DAB)
SRS CONTROL MODULE

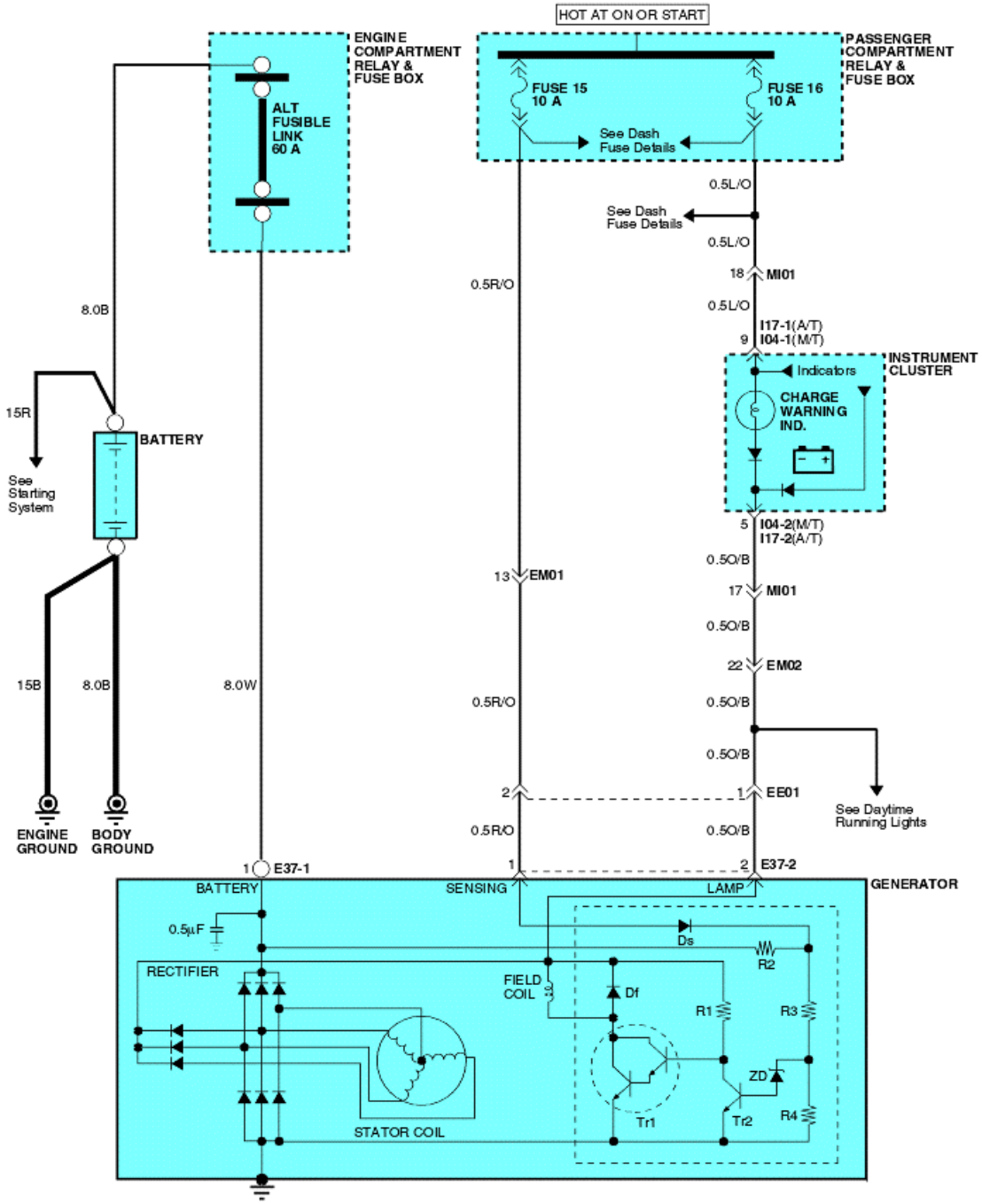

HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 15
10A
See Dash Fuse Details
1.25R/O
1.25R/O
19
MC01
0.85R/O
0.5P
0.5R/O
See Dash Fuse Details
C45
MULTIPURPOSE CHECK CONNECTOR
1
2
Power
3
4
Ground
5
TCM
6
7
K-Line
8
9
10
0.5B
0.5O/B
See Ground Distribution
0.85B
7
C05-2
TCM
G07

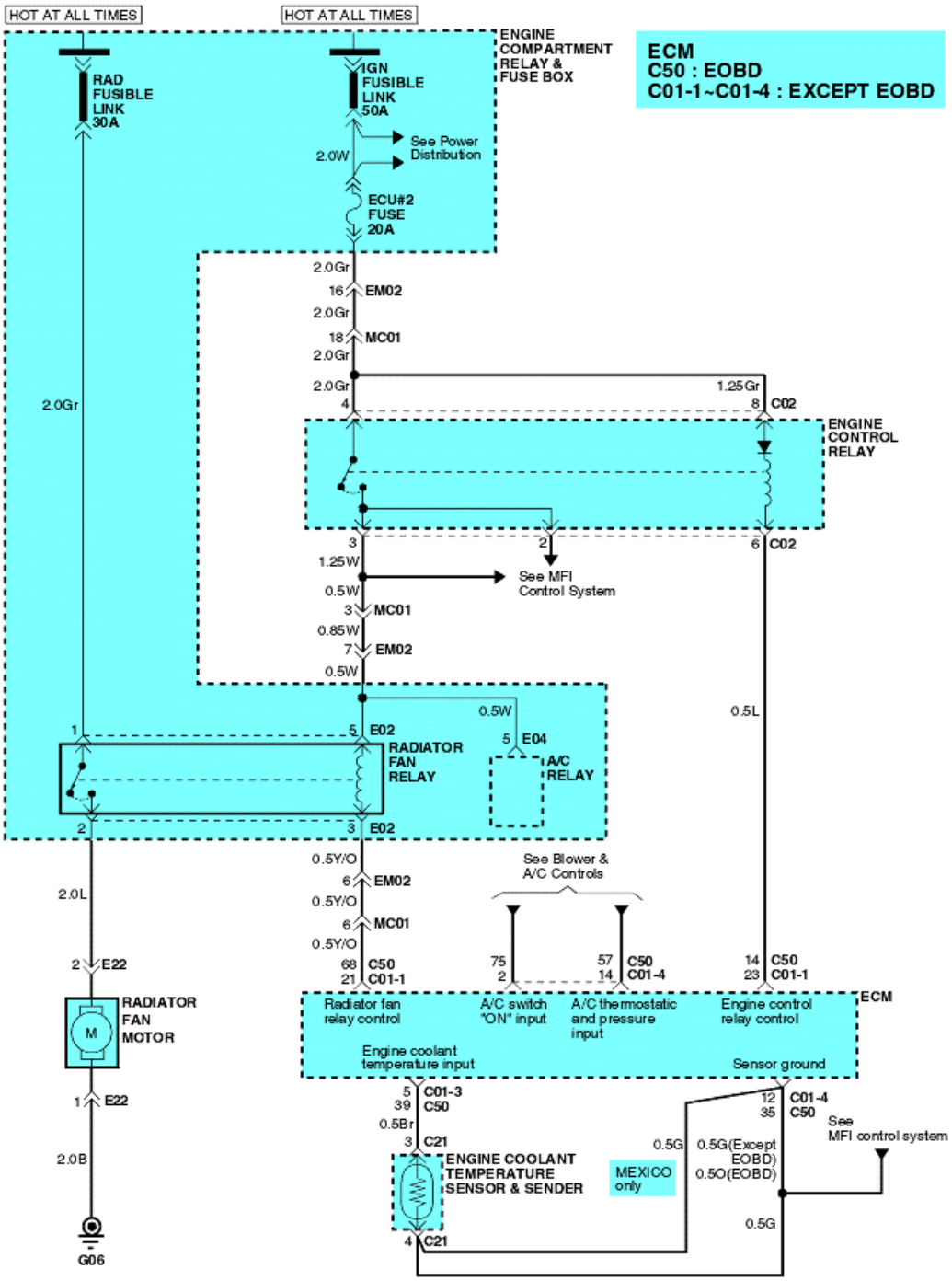

A/T only
HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 15
10A
See Dash Fuse Details
1.25R/O
1.25R/O
19
MC01
0.85R/O
See Dash Fuse Details
0.5R/O
12
CC02
1
C29
VEHICLE SPEED SENSOR
+
HALL IC
–
2
3
C29
6
11
CC02
0.5B
0.5R/B
See Ground Distribution
0.85B
8
C05-2
TCM
G07

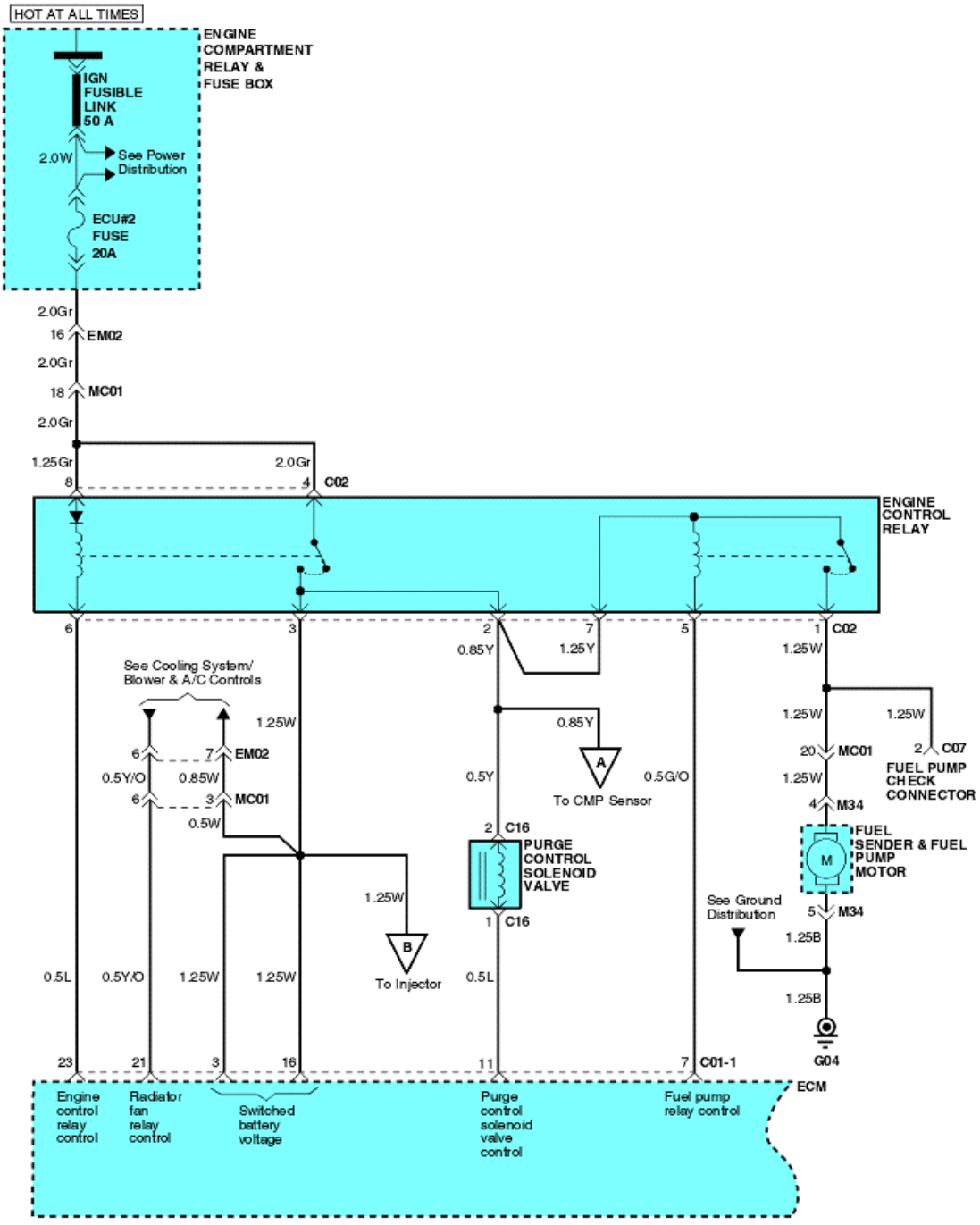


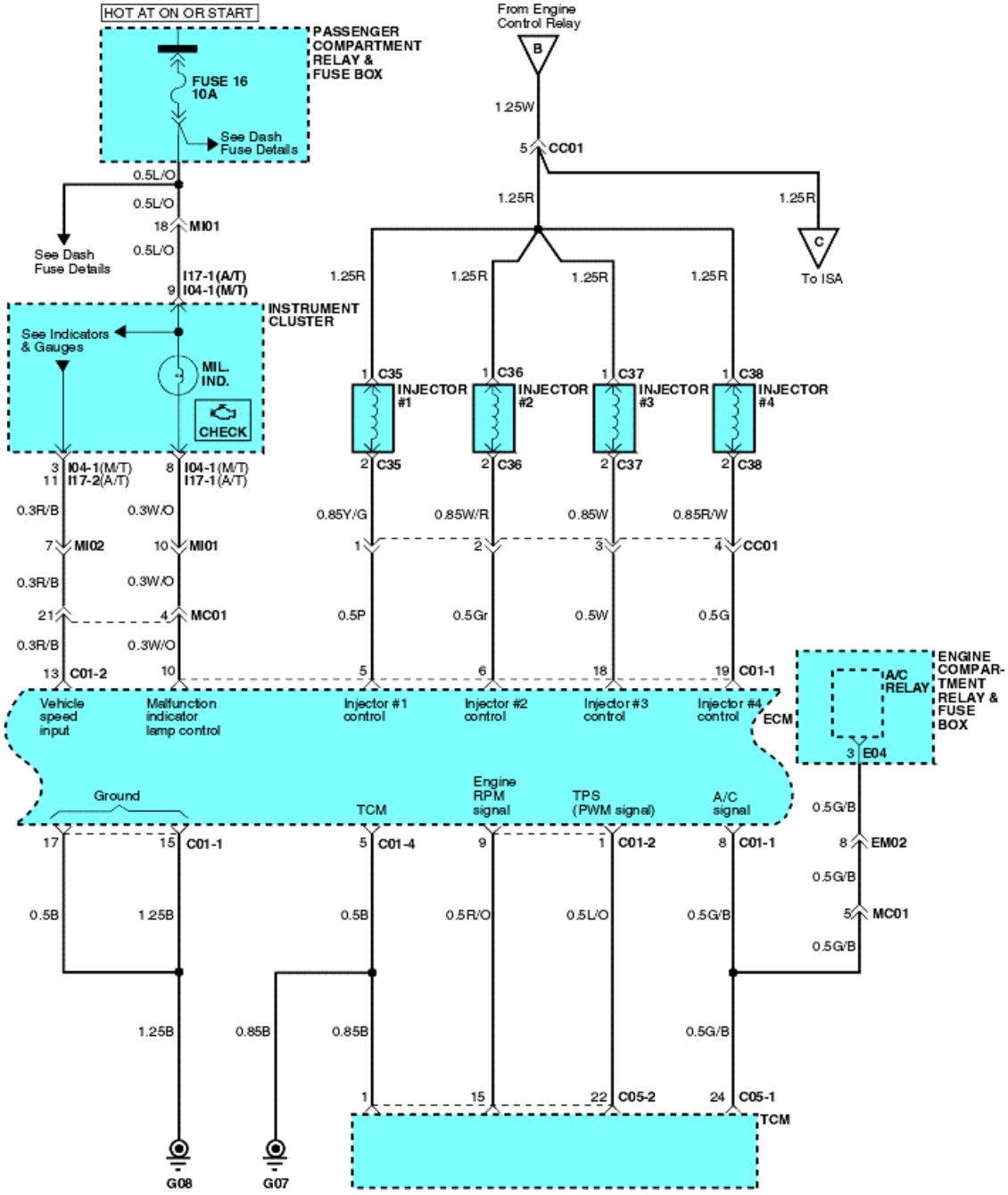
C50 : EOBD
C01-1~C01-4 : EXCEPT EOBD

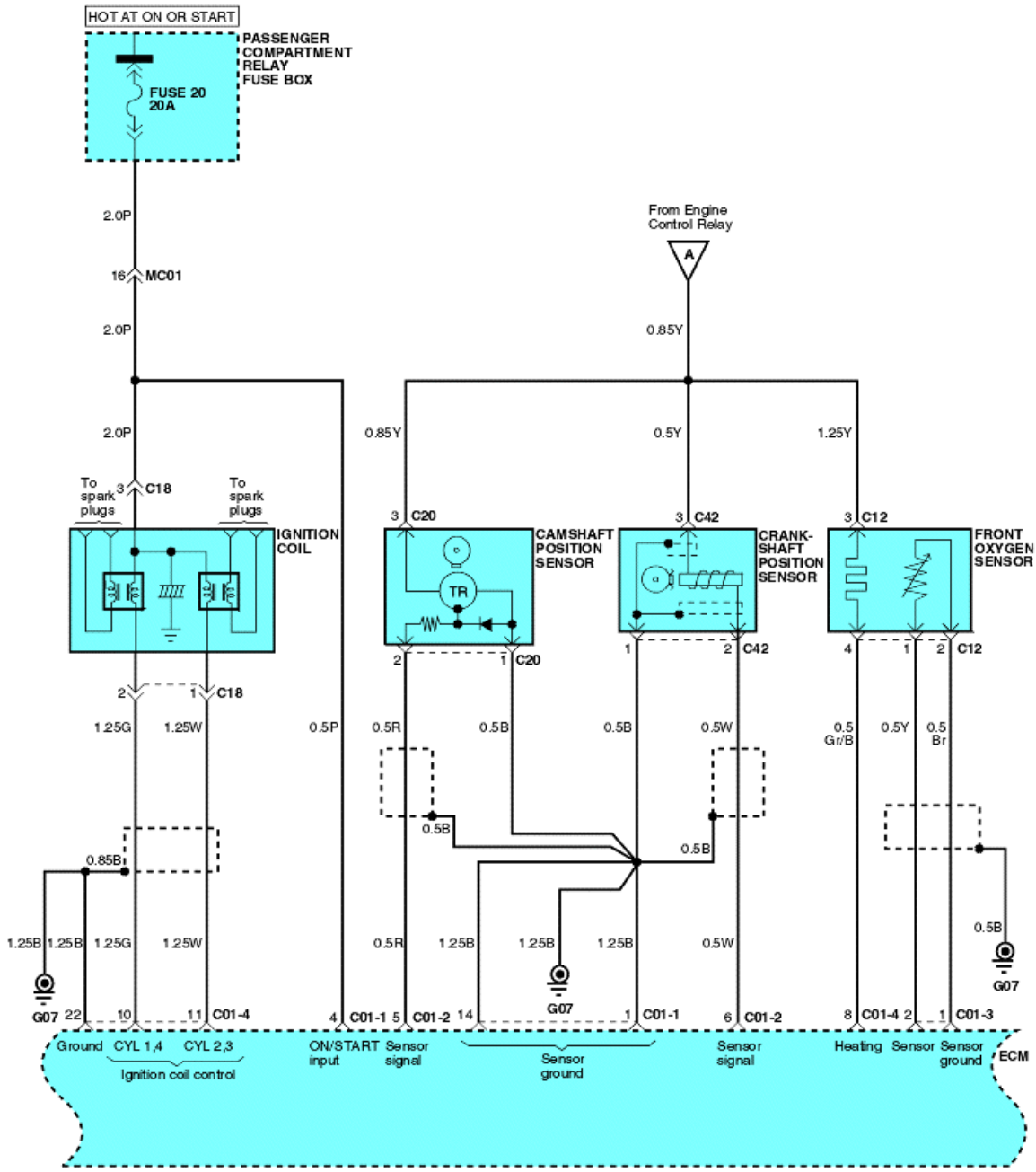

ENGINE COMPARTMENT RELAY & FUSE BOX
ALT FUSIBLE LINK 60A
IGN FUSIBLE LINK 50A
See Power Distribution
3.0W
2.0W
8.0B
BATTERY
8.0B
15B
15R
BODY GROUND
ENGINE GROUND
2.0R
3 EE01
1 E01
2 E01
5 E01
START RELAY
3.0W
2 EM03
3.0W
6 M12
IGNITION SWITCH
LOCK
ACC
ON
START
5 M12
2.0R
17 EM02
2.0R
0.5L/O
12 EM01
0.5L/O
14 MC01
M/T
A/T
0.5L/O
1 CC02
6 C28
TRANSAXLE RANGE SWITCH
R
N
D
2
L
P
0.5B
9 C28
See Ground Distribution
7 CC02
0.5B
0.85B
G08
G07
FLYWHEEL
MAGNETIC
LEVER
1 E38
START SOLENOID
START MOTOR
ENGINE
PINION GEAR
MOTOR
OVERRUNNING CLUTCH

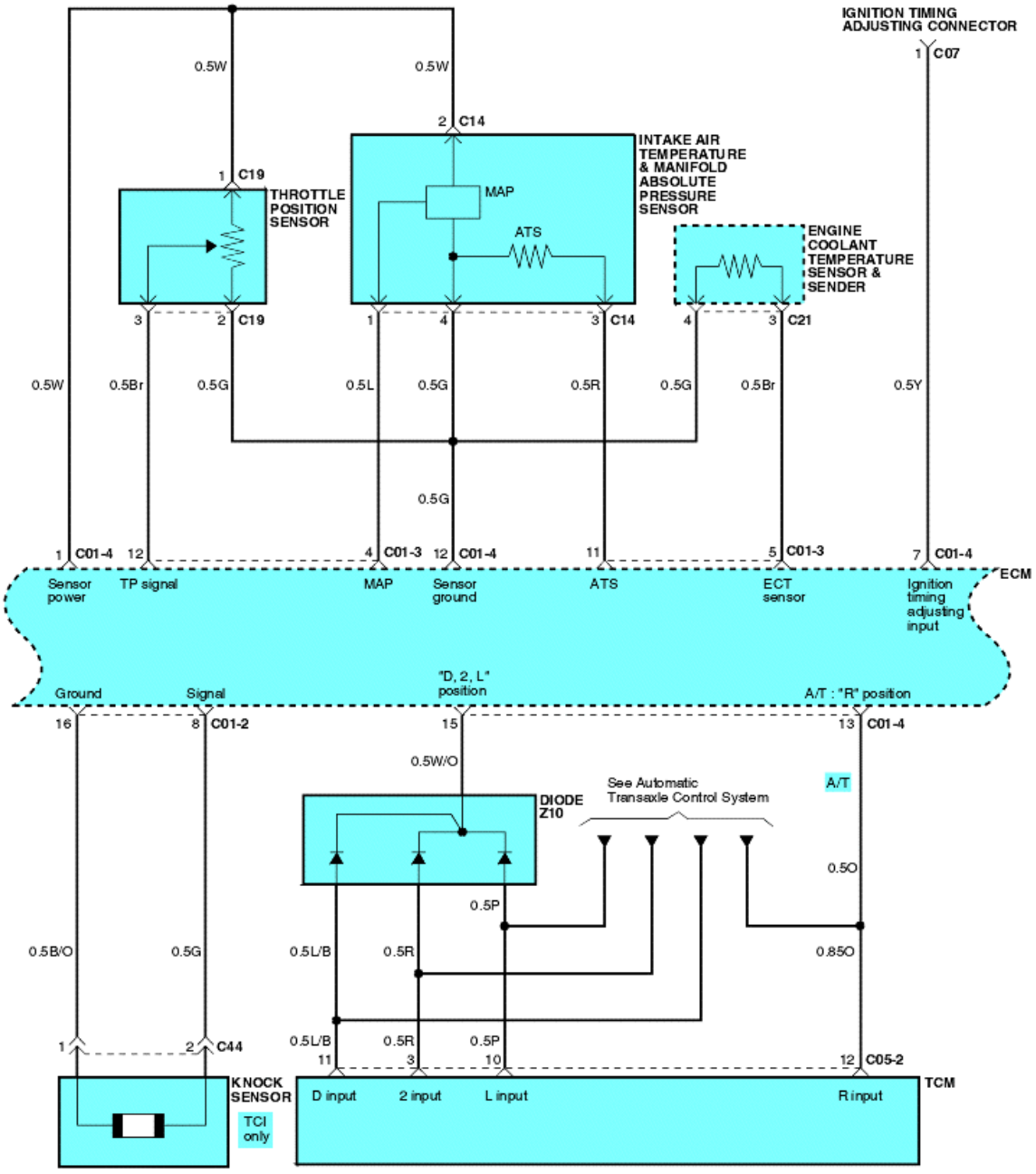

HOT AT ON OR START
ENGINE COMPARTMENT RELAY & FUSE BOX
ALT FUSIBLE LINK 60 A
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 15 10 A
FUSE 16 10 A
See Dash Fuse Details
See Dash Fuse Details
0.5L/O
0.5L/O
18 MI01
0.5L/O
9 I17-1(A/T) I04-1(M/T)
INSTRUMENT CLUSTER
Indicators
CHARGE WARNING IND.
5 I04-2(M/T) I17-2(A/T)
0.5O/B
17 MI01
0.5O/B
22 EM02
0.5O/B
1 EE01
See Daytime Running Lights
0.5O/B
2 E37-2
8.0B
15R
BATTERY
See Starting System
15B
8.0B
8.0W
0.5R/O
13 EM01
0.5R/O
2
ENGINE GROUND
BODY GROUND
1 E37-1
BATTERY
SENSING
LAMP
GENERATOR
0.5µF
RECTIFIER
FIELD COIL
Ds
R2
Df
R1
R3
ZD
Tr1
Tr2
R4
STATOR COIL

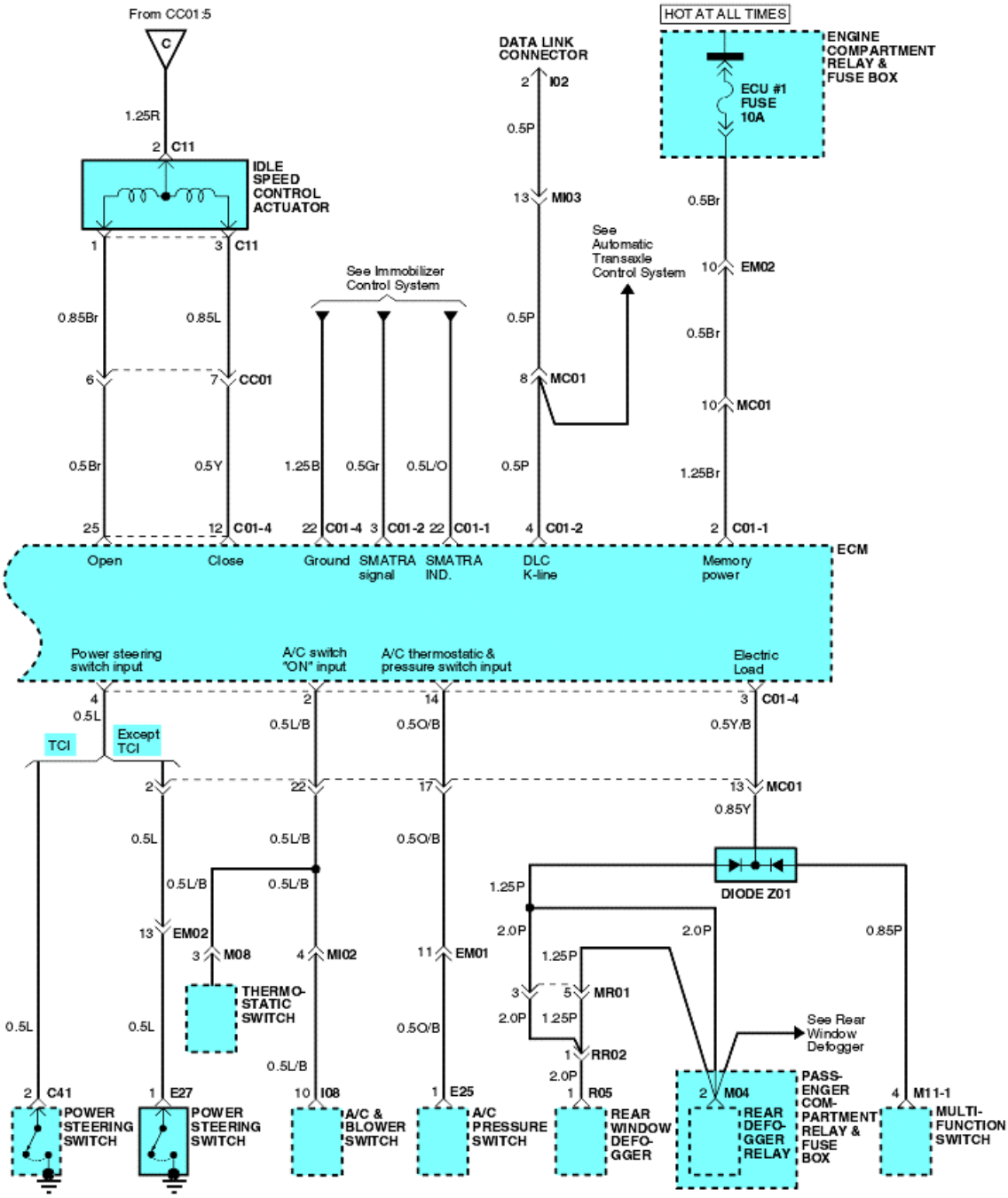

HOT AT ALL TIMES
HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
ECM
C50 : EOBD
C01-1~C01-4 : EXCEPT EOBD
RAD FUSIBLE LINK 30A
IGN FUSIBLE LINK 50A
See Power Distribution
2.0W
ECU#2 FUSE 20A
2.0Gr
16 EM02
18 MC01
4 C02
1.25Gr
8 C02
ENGINE CONTROL RELAY
3
1.25W
See MFI Control System
0.5W
3 MC01
0.85W
7 EM02
0.5L
0.5W
5 E04
A/C RELAY
1
5 E02
RADIATOR FAN RELAY
2
3 E02
0.5Y/O
6 EM02
6 MC01
68 C50
21 C01-1
See Blower & A/C Controls
75
2
57 C50
14 C01-4
14 C50
23 C01-1
ECM
Radiator fan relay control
A/C switch "ON" input
A/C thermostatic and pressure input
Engine control relay control
Engine coolant temperature input
Sensor ground
2.0L
2 E22
RADIATOR FAN MOTOR
M
1 E22
2.0B
G06
5 C01-3
39 C50
0.5Br
3 C21
ENGINE COOLANT TEMPERATURE SENSOR & SENDER
4 C21
MEXICO only
0.5G
12 C01-4
35 C50
0.5G(Except EOBD)
0.5O(EOBD)
See MFI control system
0.5G

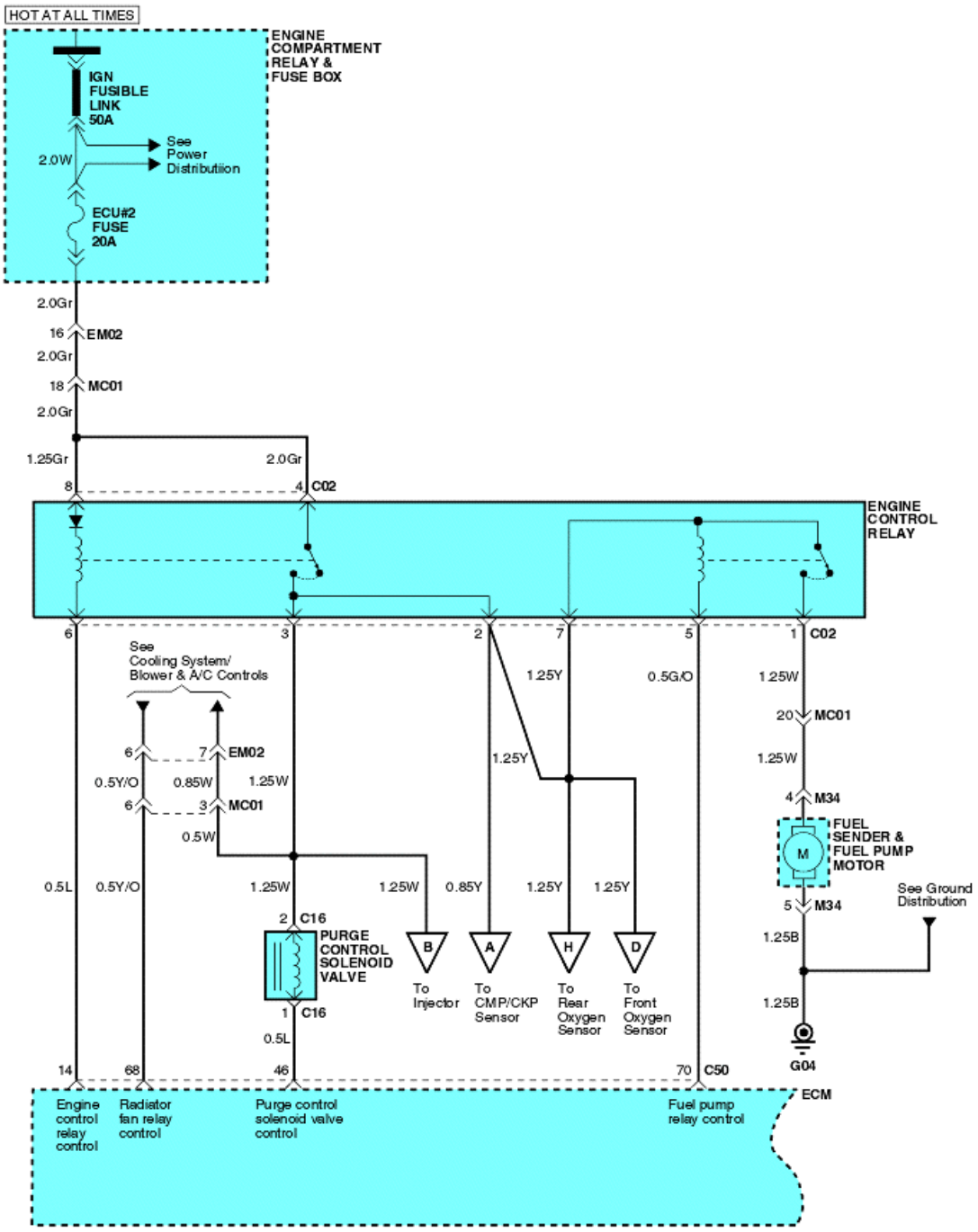

HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
IGN FUSIBLE LINK 50 A
2.0W
See Power Distribution
ECU#2 FUSE 20A
2.0Gr
16 EM02
2.0Gr
18 MC01
2.0Gr
1.25Gr
8
2.0Gr
4 C02
ENGINE CONTROL RELAY
6
3
2
7
5
1 C02
0.85Y
1.25Y
1.25W
See Cooling System/ Blower & A/C Controls
1.25W
6
7 EM02
0.5Y/O
0.85W
6
3 MC01
0.5W
0.85Y
A
To CMP Sensor
0.5Y
0.5G/O
2 C16
PURGE CONTROL SOLENOID VALVE
1 C16
1.25W
1.25W
20 MC01
1.25W
4 M34
2 C07
FUEL PUMP CHECK CONNECTOR
FUEL SENDER & FUEL PUMP MOTOR
M
See Ground Distribution
5 M34
1.25B
1.25B
G04
B
To Injector
0.5L
0.5Y/O
1.25W
1.25W
0.5L
23
21
3
16
11
7 C01-1
ECM
Engine control relay control
Radiator fan relay control
Switched battery voltage
Purge control solenoid valve control
Fuel pump relay control

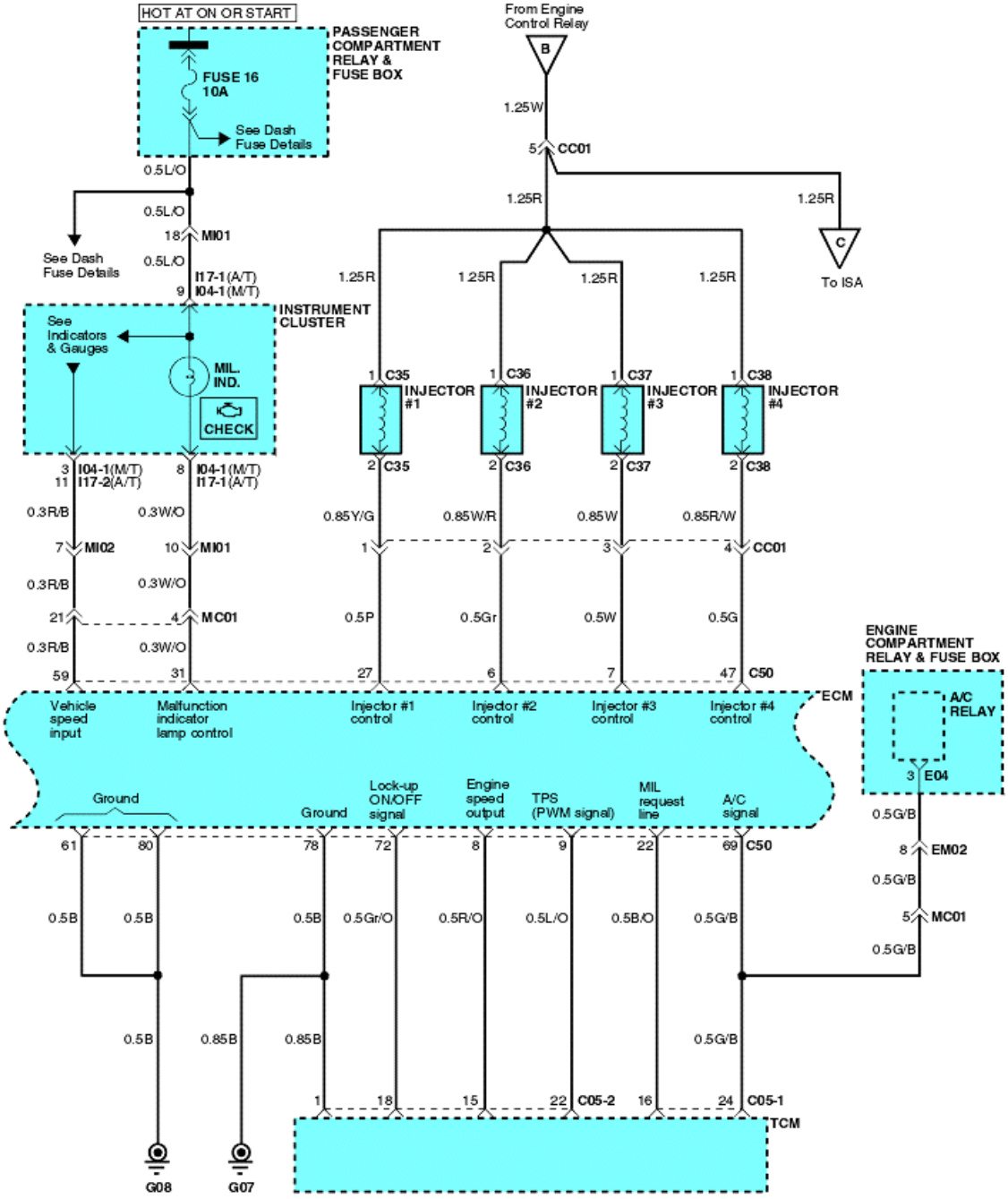

HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 16 10A
See Dash Fuse Details
0.5L/O
0.5L/O
18 MI01
0.5L/O
See Dash Fuse Details
I17-1 (A/T)
9 I04-1 (M/T)
INSTRUMENT CLUSTER
See Indicators & Gauges
MIL. IND.
CHECK
3 I04-1 (M/T)
11 I17-2 (A/T)
8 I04-1 (M/T)
I17-1 (A/T)
0.3R/B
0.3W/O
7 MI02
10 MI01
0.3R/B
0.3W/O
21
4 MC01
0.3R/B
0.3W/O
13 C01-2
10
From Engine Control Relay
B
1.25W
5 CC01
1.25R
1.25R
C
To ISA
1.25R
1.25R
1.25R
1.25R
1 C35 INJECTOR #1
1 C36 INJECTOR #2
1 C37 INJECTOR #3
1 C38 INJECTOR #4
2 C35
2 C36
2 C37
2 C38
0.85Y/G
0.85W/R
0.85W
0.85R/W
1
2
3
4 CC01
0.5P
0.5Gr
0.5W
0.5G
5
6
18
19 C01-1
Vehicle speed input
Malfunction indicator lamp control
Injector #1 control
Injector #2 control
Injector #3 control
Injector #4 control
ECM
ENGINE COMPARTMENT RELAY & FUSE BOX
A/C RELAY
3 E04
Ground
TCM
Engine RPM signal
TPS (PWM signal)
A/C signal
0.5G/B
8 EM02
0.5G/B
5 MC01
0.5G/B
17
15 C01-1
5 C01-4
9
1 C01-2
8 C01-1
0.5B
1.25B
0.5B
0.5R/O
0.5L/O
0.5G/B
1.25B
0.85B
0.85B
0.5G/B
1
15
22 C05-2
24 C05-1
TCM
G08
G07

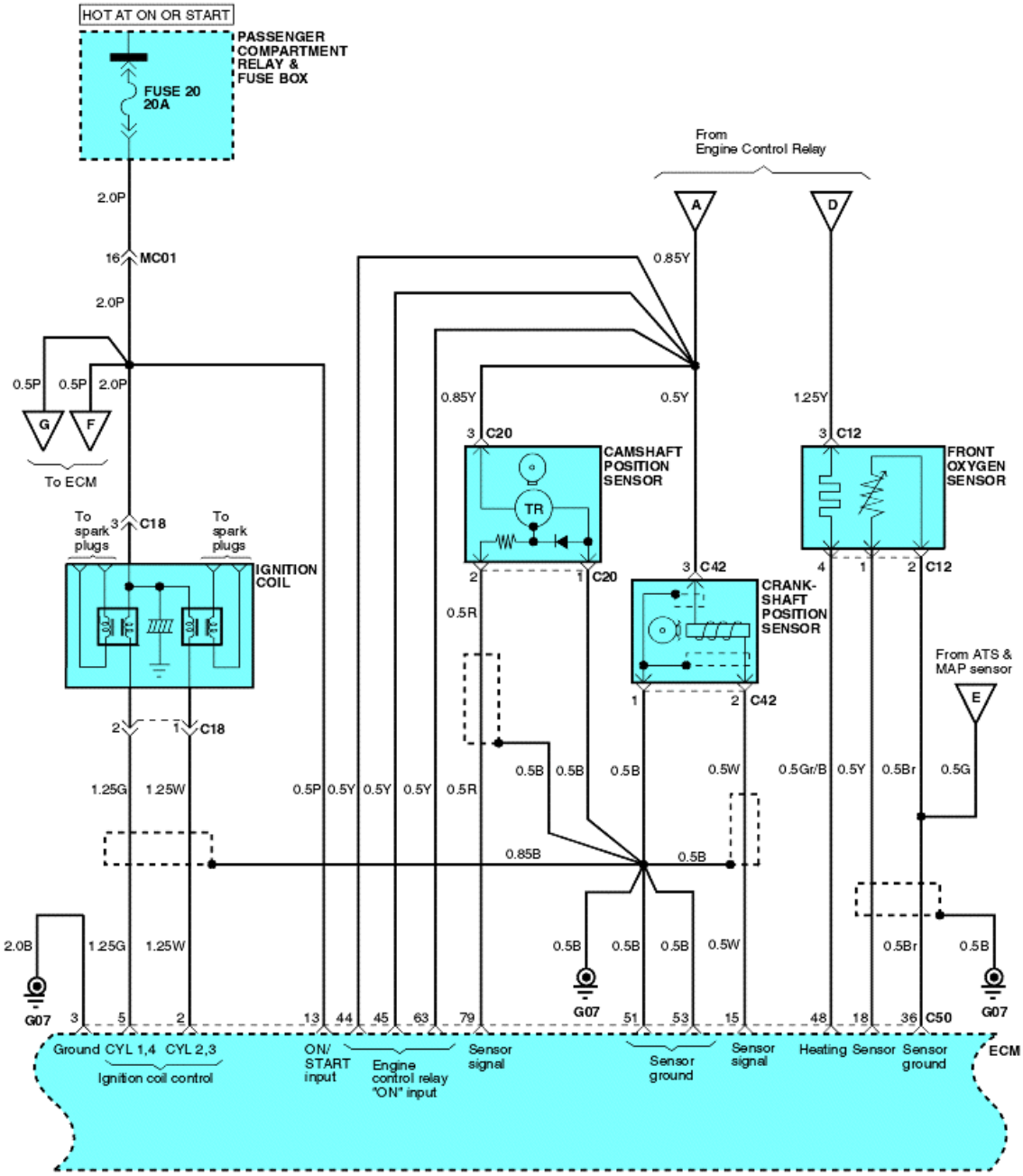

HOT AT ON OR START
PASSENGER COMPARTMENT RELAY FUSE BOX
FUSE 20 20A
2.0P
16 MC01
2.0P
2.0P
From Engine Control Relay
A
0.85Y
0.85Y
0.5Y
1.25Y
To spark plugs
3 C18
To spark plugs
IGNITION COIL
3 C20
CAMSHAFT POSITION SENSOR
TR
3 C42
CRANK-SHAFT POSITION SENSOR
3 C12
FRONT OXYGEN SENSOR
2 1 C18
2 1 C20
1 2 C42
4 1 2 C12
1.25G
1.25W
0.5P
0.5R
0.5B
0.5B
0.5W
0.5 Gr/B
0.5Y
0.5 Br
0.5B
0.5B
0.85B
0.5B
1.25B 1.25B 1.25G 1.25W
0.5R 1.25B 1.25B 1.25B 0.5W
G07
G07
G07
G07 22 10 11 C01-4
4 C01-1 5 C01-2 14 1 C01-1 6 C01-2 8 C01-4 2 1 C01-3
Ground CYL 1,4 CYL 2,3
Ignition coil control
ON/START input
Sensor signal
Sensor ground
Sensor signal
Heating Sensor
Sensor ground
ECM

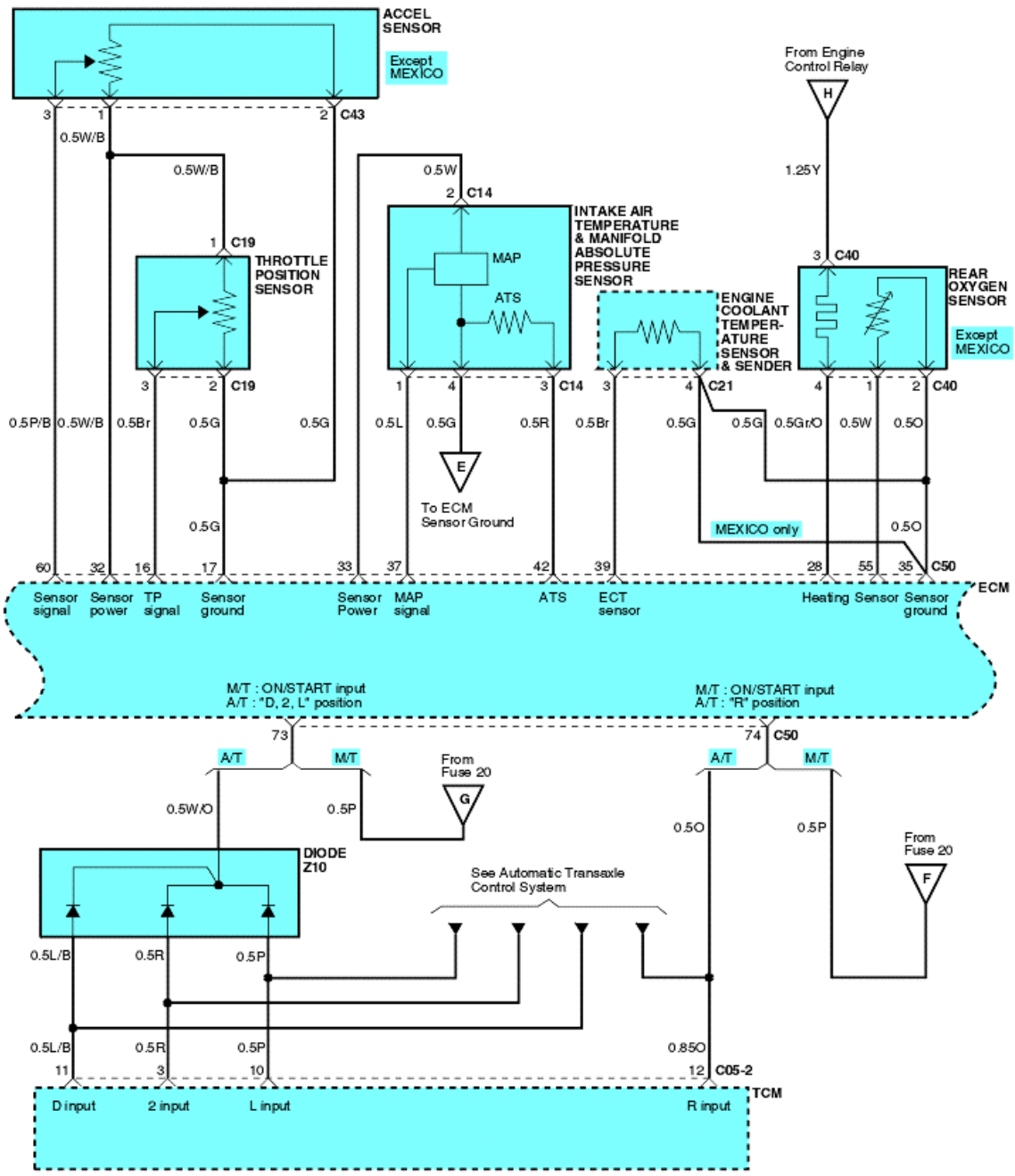

IGNITION TIMING ADJUSTING CONNECTOR
1 C07
0.5W
0.5W
2 C14
1 C19
THROTTLE POSITION SENSOR
MAP
ATS
INTAKE AIR TEMPERATURE & MANIFOLD ABSOLUTE PRESSURE SENSOR
ENGINE COOLANT TEMPERATURE SENSOR & SENDER
3 2 C19
1 4 3 C14
4 3 C21
0.5W 0.5Br 0.5G 0.5L 0.5G 0.5R 0.5G 0.5Br 0.5Y
0.5G
1 C01-4 12 4 C01-3 12 C01-4 11 5 C01-3 7 C01-4
Sensor power
TP signal
MAP
Sensor ground
ATS
ECT sensor
Ignition timing adjusting input
ECM
Ground
Signal
"D, 2, L" position
A/T : "R" position
16 8 C01-2
15
13 C01-4
0.5W/O
See Automatic Transaxle Control System
A/T
DIODE Z10
0.5O
0.5P
0.5B/O
0.5G
0.5L/B
0.5R
0.85O
1 2 C44
0.5L/B 0.5R 0.5P
11 3 10
12 C05-2
KNOCK SENSOR
TCI only
D input
2 input
L input
R input
TCM

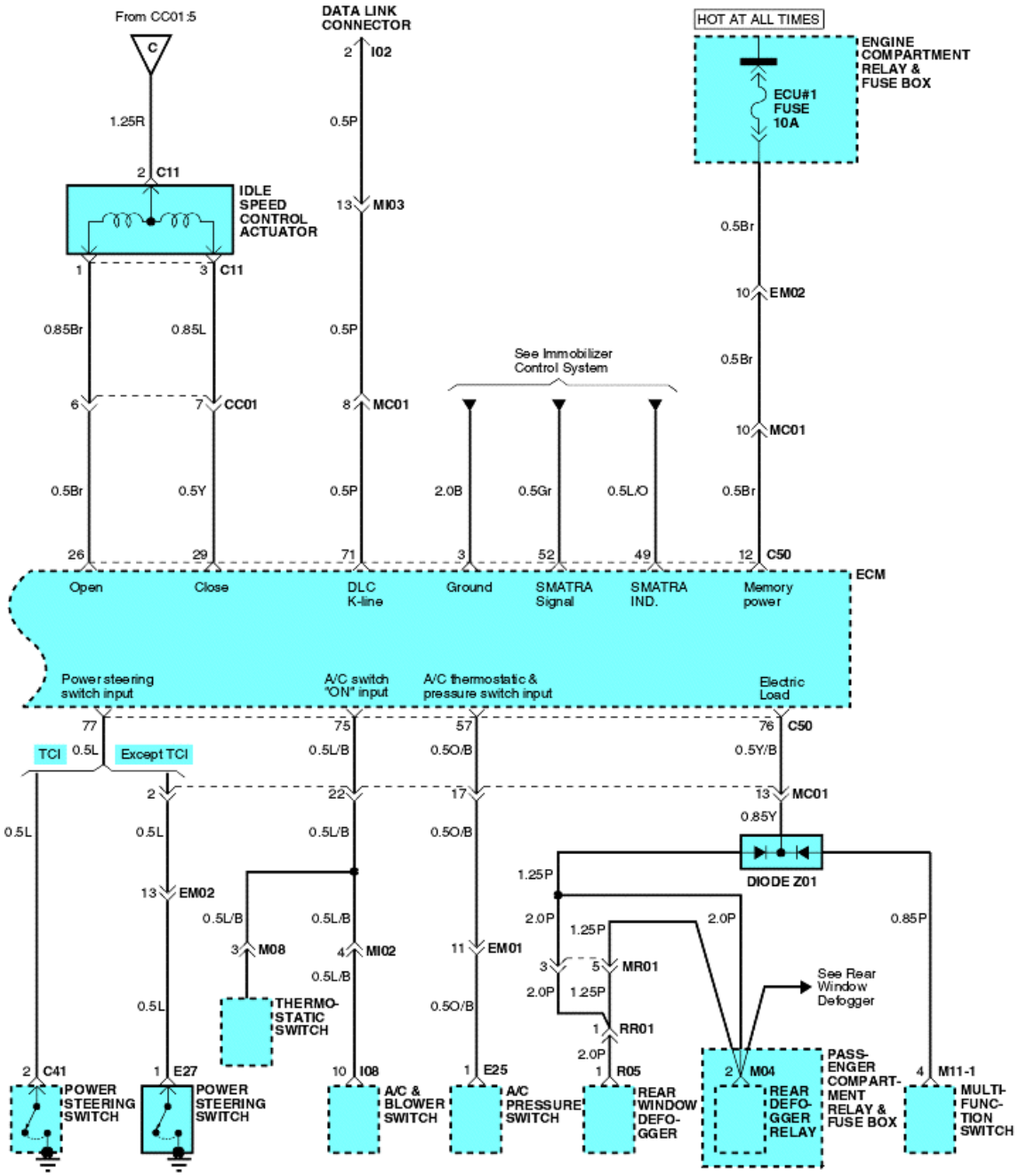

From CC01:5
C
1.25R
2 C11
IDLE SPEED CONTROL ACTUATOR
1
3 C11
0.85Br
0.85L
6
7 CC01
0.5Br
0.5Y
25
12 C01-4
Open
Close
See Immobilizer Control System
1.25B
0.5Gr
0.5L/O
22 C01-4
3 C01-2
22 C01-1
Ground
SMATRA signal
SMATRA IND.
DATA LINK CONNECTOR
2 I02
0.5P
13 MI03
0.5P
8 MC01
0.5P
4 C01-2
DLC K-line
See Automatic Transaxle Control System
HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
ECU #1 FUSE 10A
0.5Br
10 EM02
0.5Br
10 MC01
1.25Br
2 C01-1
Memory power
ECM
Power steering switch input
A/C switch "ON" input
A/C thermostatic & pressure switch input
Electric Load
4
0.5L
2
0.5L/B
14
0.5O/B
3 C01-4
0.5Y/B
TCI
Except TCI
2
22
17
13 MC01
0.85Y
0.5L
0.5L/B
0.5O/B
0.5L/B
0.5L/B
DIODE Z01
1.25P
2.0P
2.0P
0.85P
13 EM02
3 M08
4 MI02
11 EM01
1.25P
3
5 MR01
2.0P
1.25P
1 RR02
2.0P
1 R05
See Rear Window Defogger
THERMO-STATIC SWITCH
0.5L
0.5L
0.5L/B
0.5O/B
2 C41
1 E27
10 I08
1 E25
POWER STEERING SWITCH
POWER STEERING SWITCH
A/C & BLOWER SWITCH
A/C PRESSURE SWITCH
REAR WINDOW DEFO-GGER
2 M04
REAR DEFO-GGER RELAY
PASS-ENGER COM-PARTMENT RELAY & FUSE BOX
4 M11-1
MULTI-FUNCTION SWITCH


HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
IGN FUSIBLE LINK 50A
2.0W
See Power Distribution
ECU#2 FUSE 20A
2.0Gr
16 EM02
2.0Gr
18 MC01
2.0Gr
1.25Gr
2.0Gr
8
4 C02
ENGINE CONTROL RELAY
6
3
2
7
5
1 C02
See Cooling System/ Blower & A/C Controls
1.25Y
0.5G/O
1.25W
20 MC01
6
7 EM02
0.5Y/O
0.85W
1.25W
1.25Y
1.25W
6
3 MC01
4 M34
0.5W
FUEL SENDER & FUEL PUMP MOTOR
0.5L
0.5Y/O
1.25W
1.25W
0.85Y
1.25Y
1.25Y
2 C16
PURGE CONTROL SOLENOID VALVE
B
A
H
D
5 M34
See Ground Distribution
1.25B
To Injector
To CMP/CKP Sensor
To Rear Oxygen Sensor
To Front Oxygen Sensor
1 C16
0.5L
1.25B
G04
14
68
46
70 C50
ECM
Engine control relay control
Radiator fan relay control
Purge control solenoid valve control
Fuel pump relay control

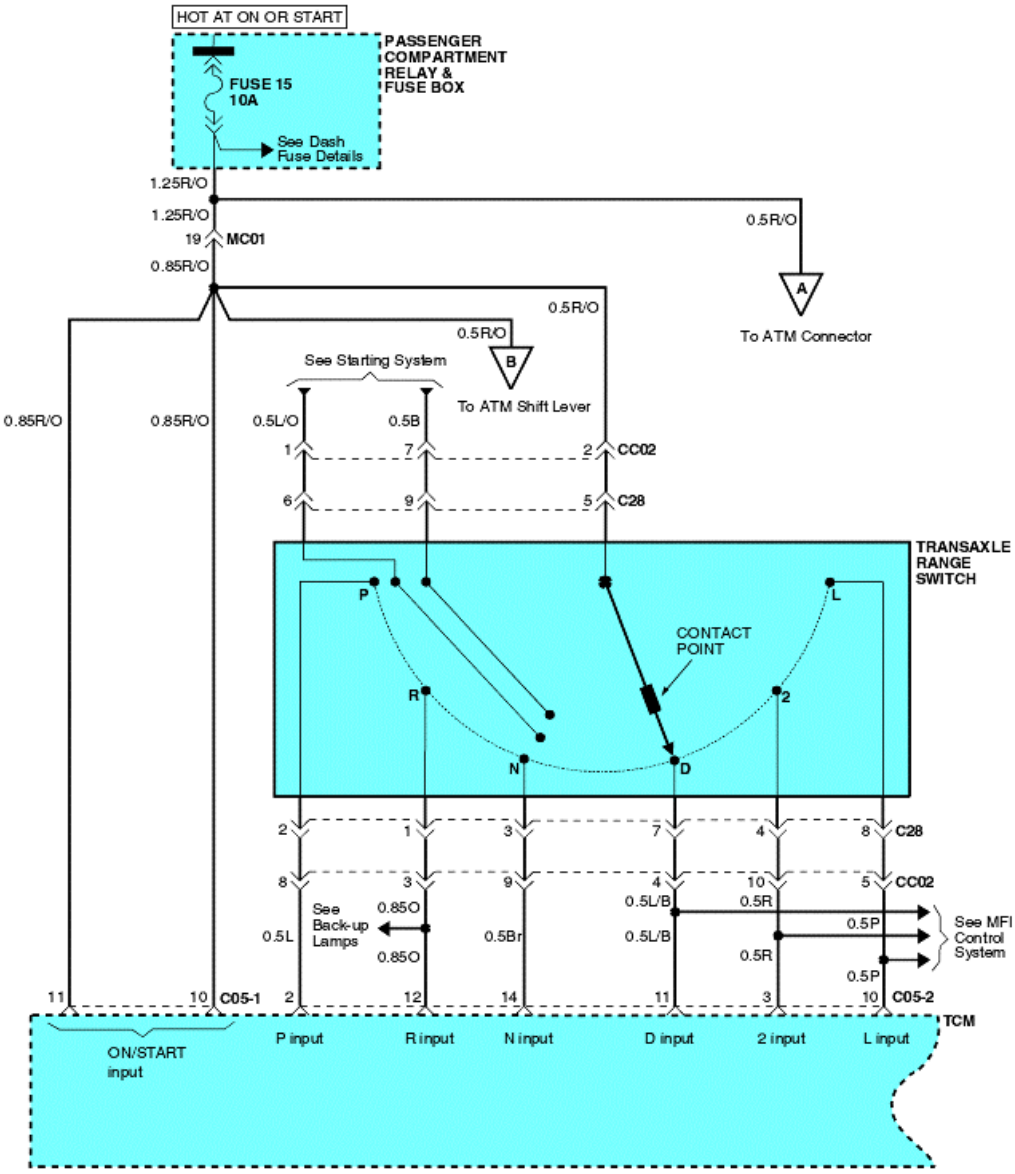

HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 16 10A
See Dash Fuse Details
0.5L/O
See Dash Fuse Details
0.5L/O
18 MI01
0.5L/O
I17-1(A/T)
9 I04-1(M/T)
INSTRUMENT CLUSTER
See Indicators & Gauges
MIL. IND.
CHECK
3 I04-1(M/T)
11 I17-2(A/T)
8 I04-1(M/T)
I17-1(A/T)
0.3R/B
0.3W/O
7 MI02
10 MI01
0.3R/B
0.3W/O
21
4 MC01
0.3R/B
0.3W/O
59
31
From Engine Control Relay
B
1.25W
5 CC01
1.25R
1.25R
C
To ISA
1.25R
1.25R
1.25R
1.25R
1 C35 INJECTOR #1
1 C36 INJECTOR #2
1 C37 INJECTOR #3
1 C38 INJECTOR #4
2 C35
2 C36
2 C37
2 C38
0.85Y/G
0.85W/R
0.85W
0.85R/W
1
2
3
4 CC01
0.5P
0.5Gr
0.5W
0.5G
27
6
7
47 C50
ECM
Vehicle speed input
Malfunction indicator lamp control
Injector #1 control
Injector #2 control
Injector #3 control
Injector #4 control
ENGINE COMPARTMENT RELAY & FUSE BOX
A/C RELAY
3 E04
0.5G/B
8 EM02
0.5G/B
5 MC01
0.5G/B
Ground
Ground
Lock-up ON/OFF signal
Engine speed output
TPS (PWM signal)
MIL request line
A/C signal
61
80
78
72
8
9
22
69 C50
0.5B
0.5B
0.5B
0.5Gr/O
0.5R/O
0.5L/O
0.5B/O
0.5G/B
0.5B
0.85B
0.85B
0.5G/B
1
18
15
22 C05-2
16
24 C05-1
TCM
G08
G07


HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 20 20A
2.0P
16 MC01
2.0P
0.5P 0.5P 2.0P
G
F
To ECM
To spark plugs
3 C18
To spark plugs
IGNITION COIL
2 1 C18
1.25G 1.25W
2.0B
G07
3 5 2
Ground CYL 1,4 CYL 2,3
Ignition coil control
From Engine Control Relay
A
D
0.85Y
0.85Y 0.5Y
1.25Y
3 C20
CAMSHAFT POSITION SENSOR
TR
2 1 C20
0.5R
3 C42
CRANK-SHAFT POSITION SENSOR
1 2 C42
3 C12
FRONT OXYGEN SENSOR
4 1 2 C12
From ATS & MAP sensor
E
0.5P 0.5Y 0.5Y 0.5Y 0.5R
0.5B 0.5B 0.5B 0.5W
0.5Gr/B 0.5Y 0.5Br 0.5G
0.85B 0.5B
0.5B 0.5B 0.5B 0.5W
0.5Br 0.5B
G07
G07
13 44 45 63 79
51 53 15
48 18 36 C50
ON/ START input
Engine control relay "ON" input
Sensor signal
Sensor ground
Sensor signal
Heating Sensor
Sensor ground
ECM

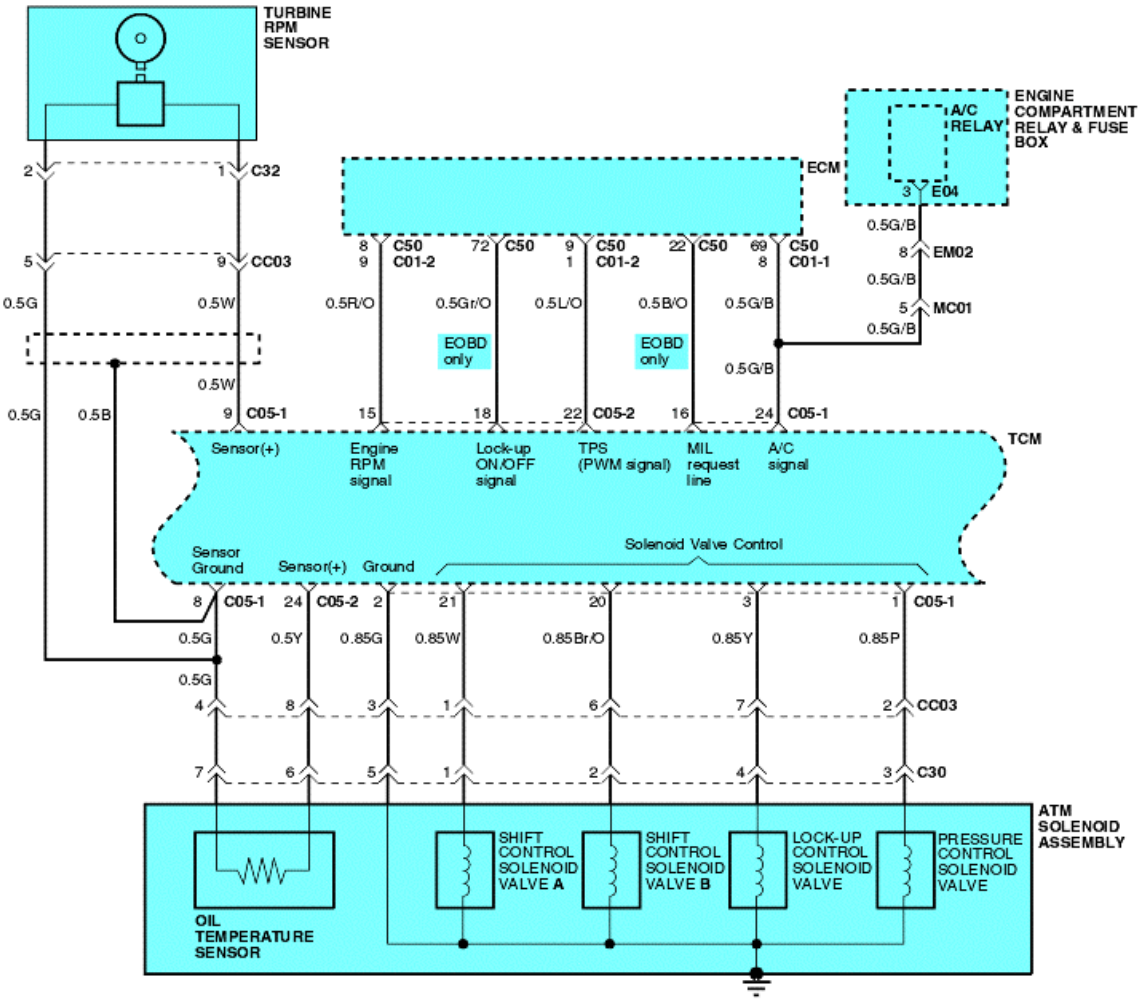

ACCEL SENSOR
Except MEXICO
C43
0.5W/B
THROTTLE POSITION SENSOR
C19
INTAKE AIR TEMPERATURE & MANIFOLD ABSOLUTE PRESSURE SENSOR
MAP
ATS
C14
0.5W
ENGINE COOLANT TEMPER-ATURE SENSOR & SENDER
C21
From Engine Control Relay
1.25Y
REAR OXYGEN SENSOR
Except MEXICO
C40
0.5P/B
0.5Br
0.5G
0.5L
0.5R
0.5Gr/O
0.5W
0.5O
To ECM Sensor Ground
MEXICO only
C50
ECM
Sensor signal
Sensor power
TP signal
Sensor ground
Sensor Power
MAP signal
ATS
ECT sensor
Heating Sensor
Sensor ground
M/T : ON/START input
A/T : "D, 2, L" position
M/T : ON/START input
A/T : "R" position
A/T
M/T
From Fuse 20
0.5W/O
0.5P
DIODE Z10
See Automatic Transaxle Control System
0.5L/B
0.85O
C05-2
TCM
D input
2 input
L input
R input

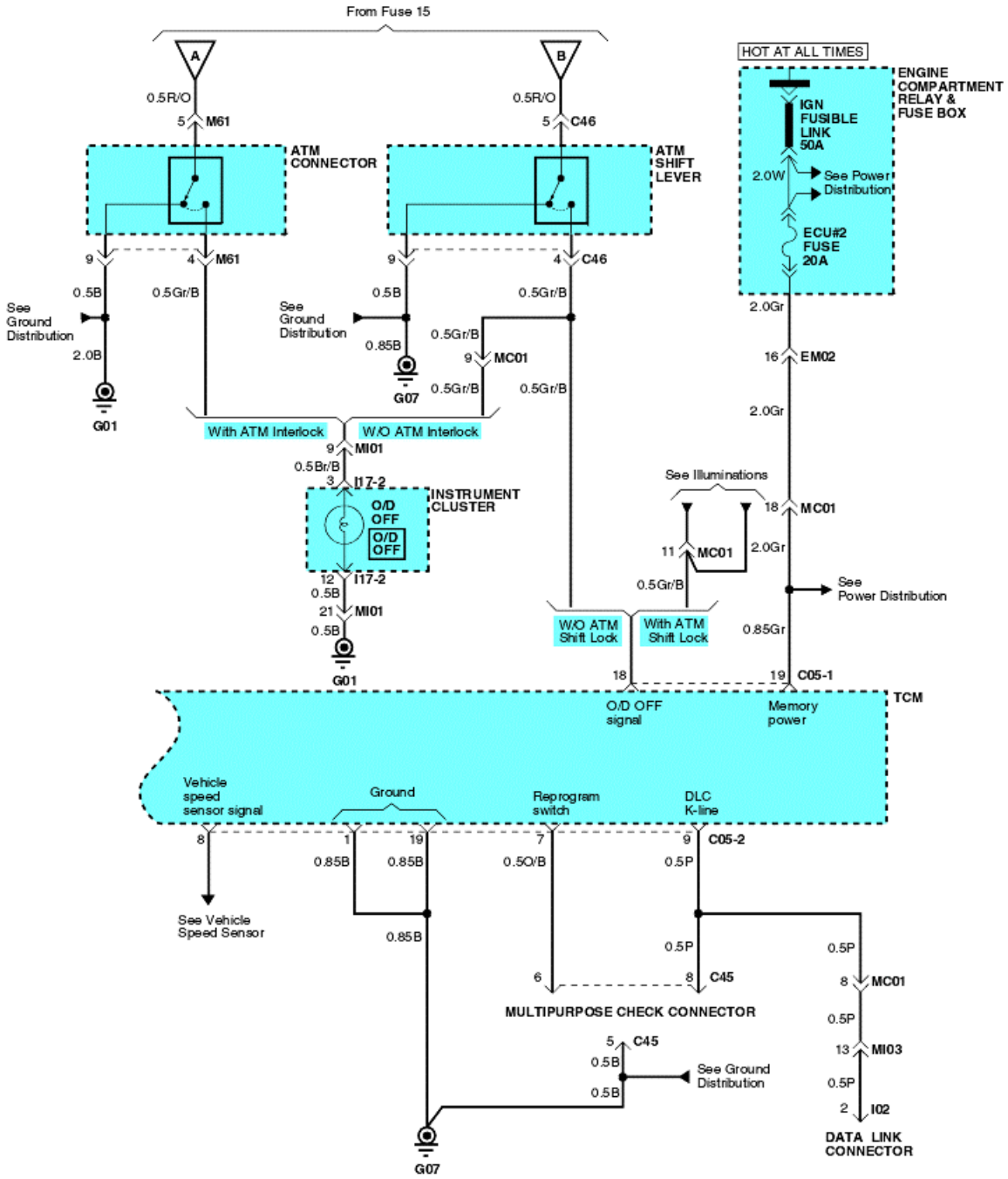


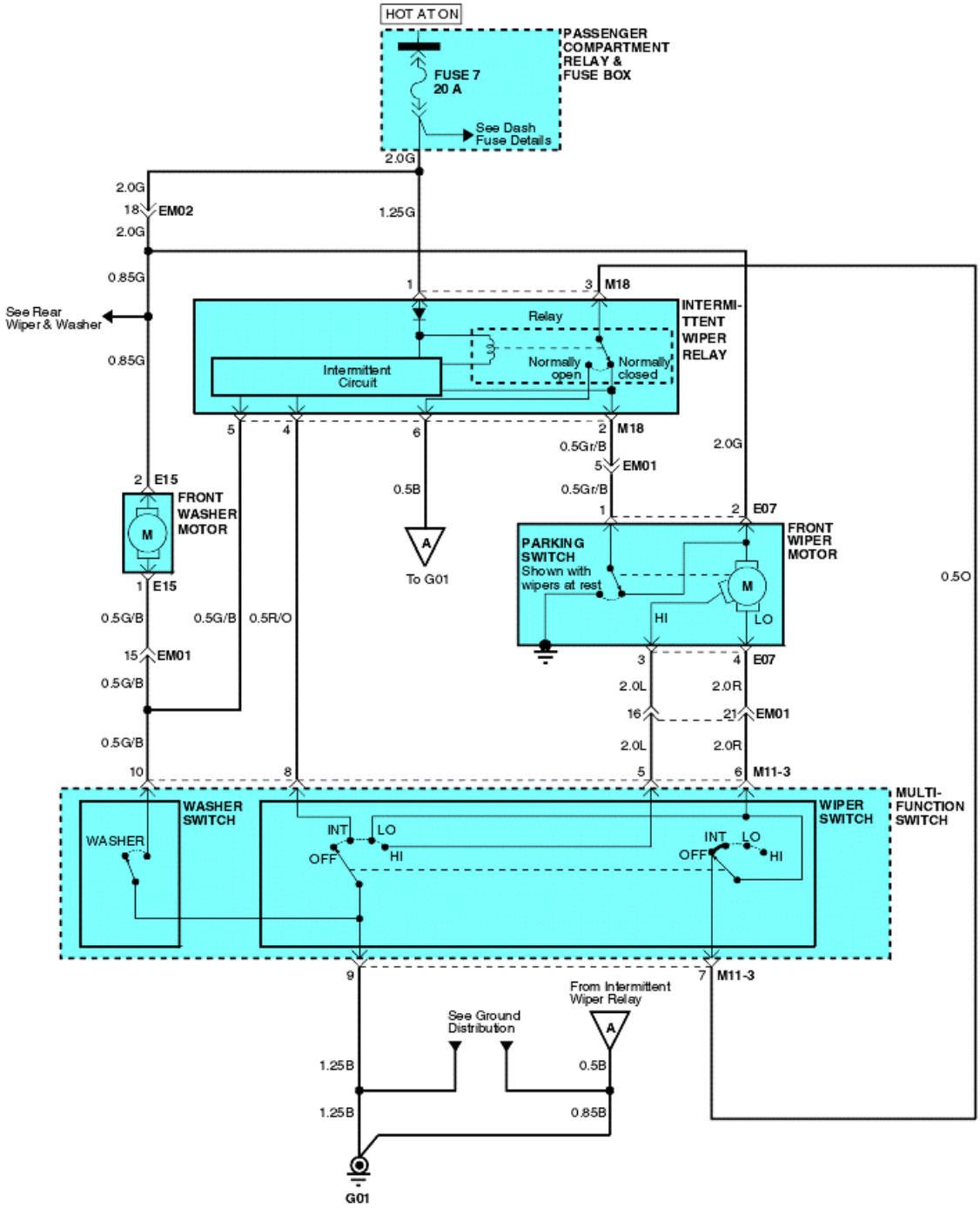
AUTOMATIC TRANSAXLE CONTROL SYSTEM E21C0120

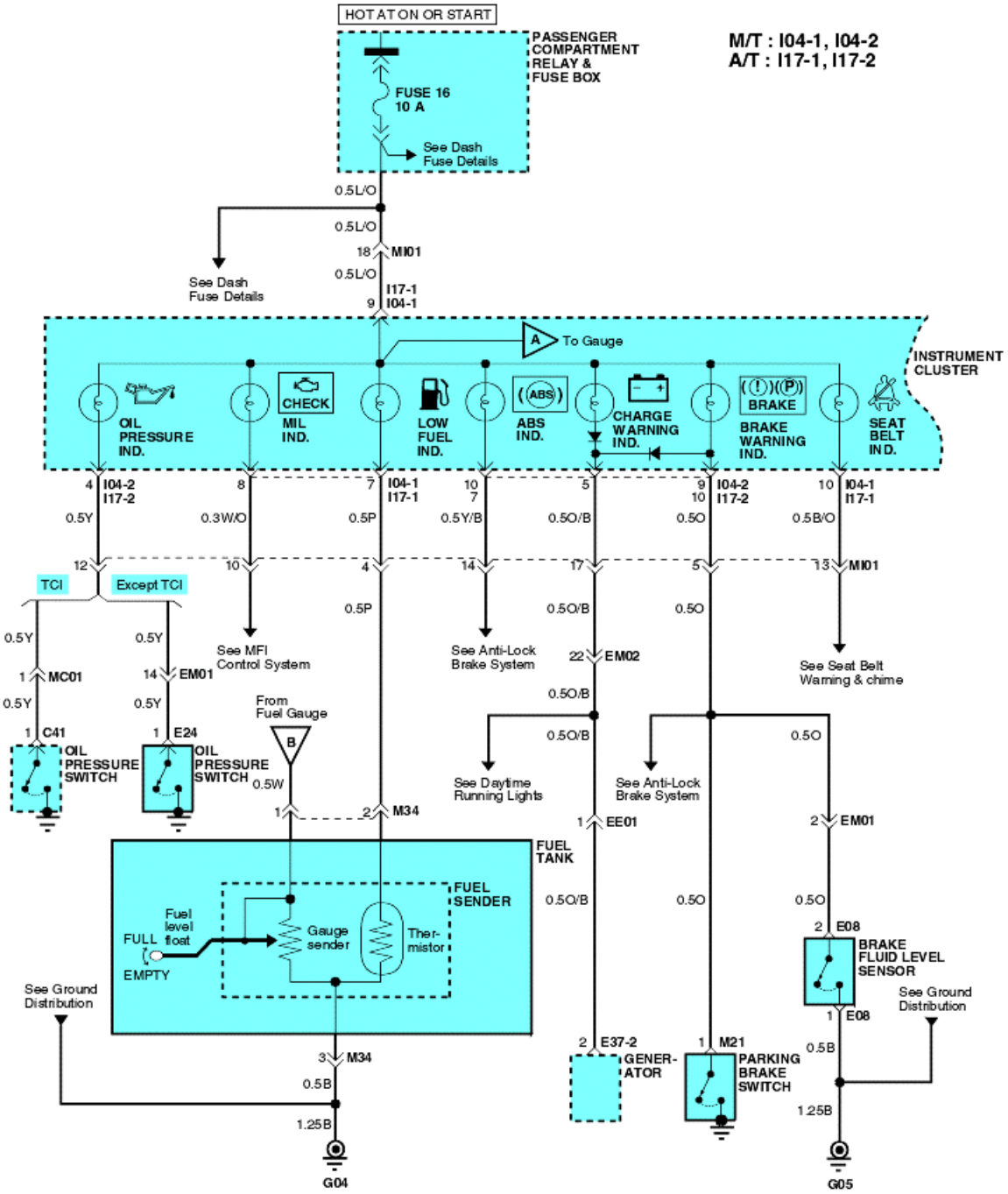

HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 15 10A
See Dash Fuse Details
1.25R/O
1.25R/O
19
MC01
0.85R/O
0.5R/O
A
To ATM Connector
0.5R/O
0.5R/O
B
To ATM Shift Lever
See Starting System
0.85R/O
0.85R/O
0.5L/O
0.5B
1
7
2
CC02
6
9
5
C28
TRANSAXLE RANGE SWITCH
P
L
CONTACT POINT
R
2
N
D
2
1
3
7
4
8
C28
8
3
9
4
10
5
CC02
See Back-up Lamps
0.85O
0.85O
0.5L
0.5Br
0.5L/B
0.5L/B
0.5R
0.5R
0.5P
0.5P
See MFI Control System
11
10
C05-1
2
12
14
11
3
10
C05-2
TCM
ON/START input
P input
R input
N input
D input
2 input
L input

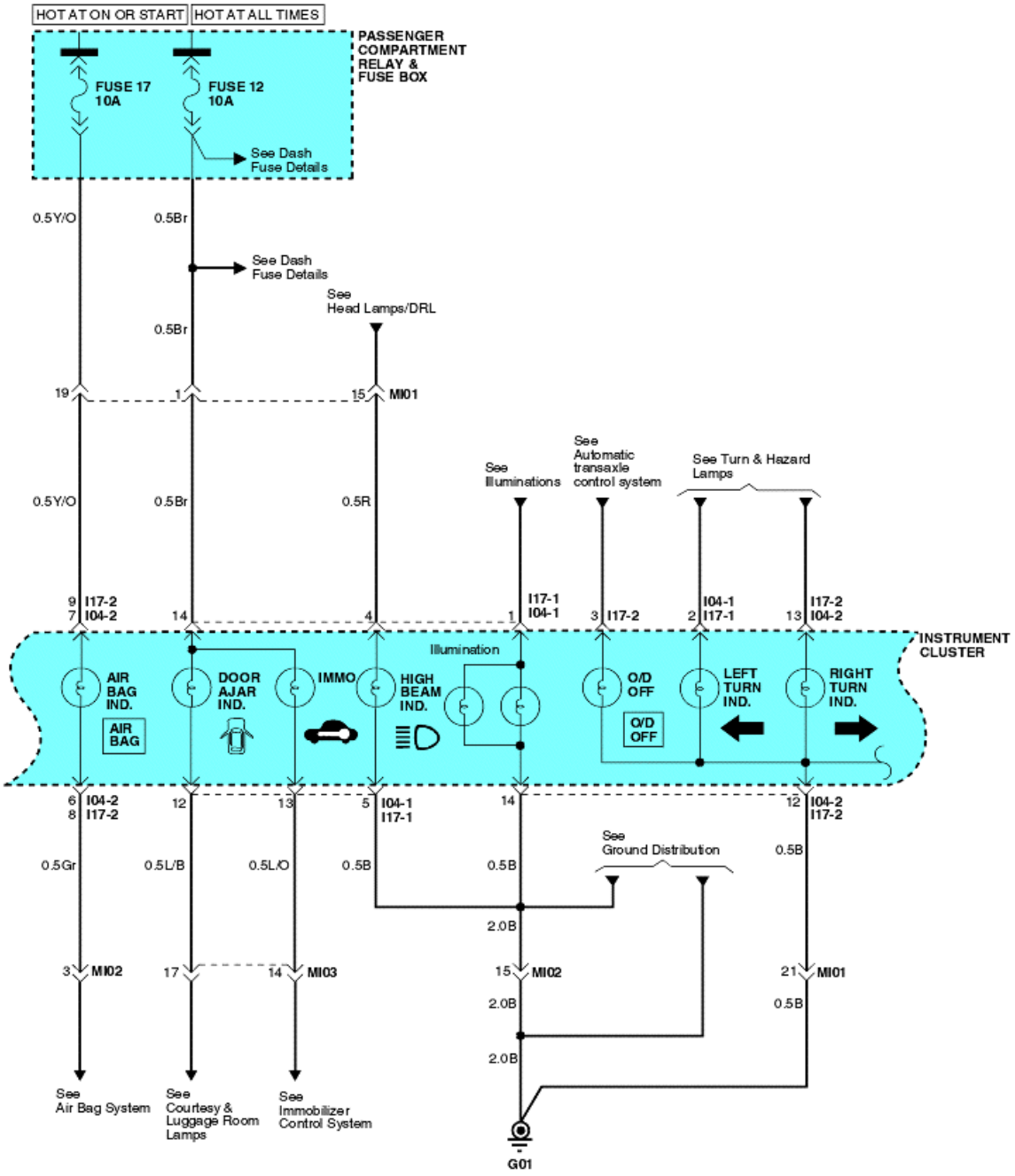
C50 : EOBD
C01-1, C01-2 : EXCEPT EOBD



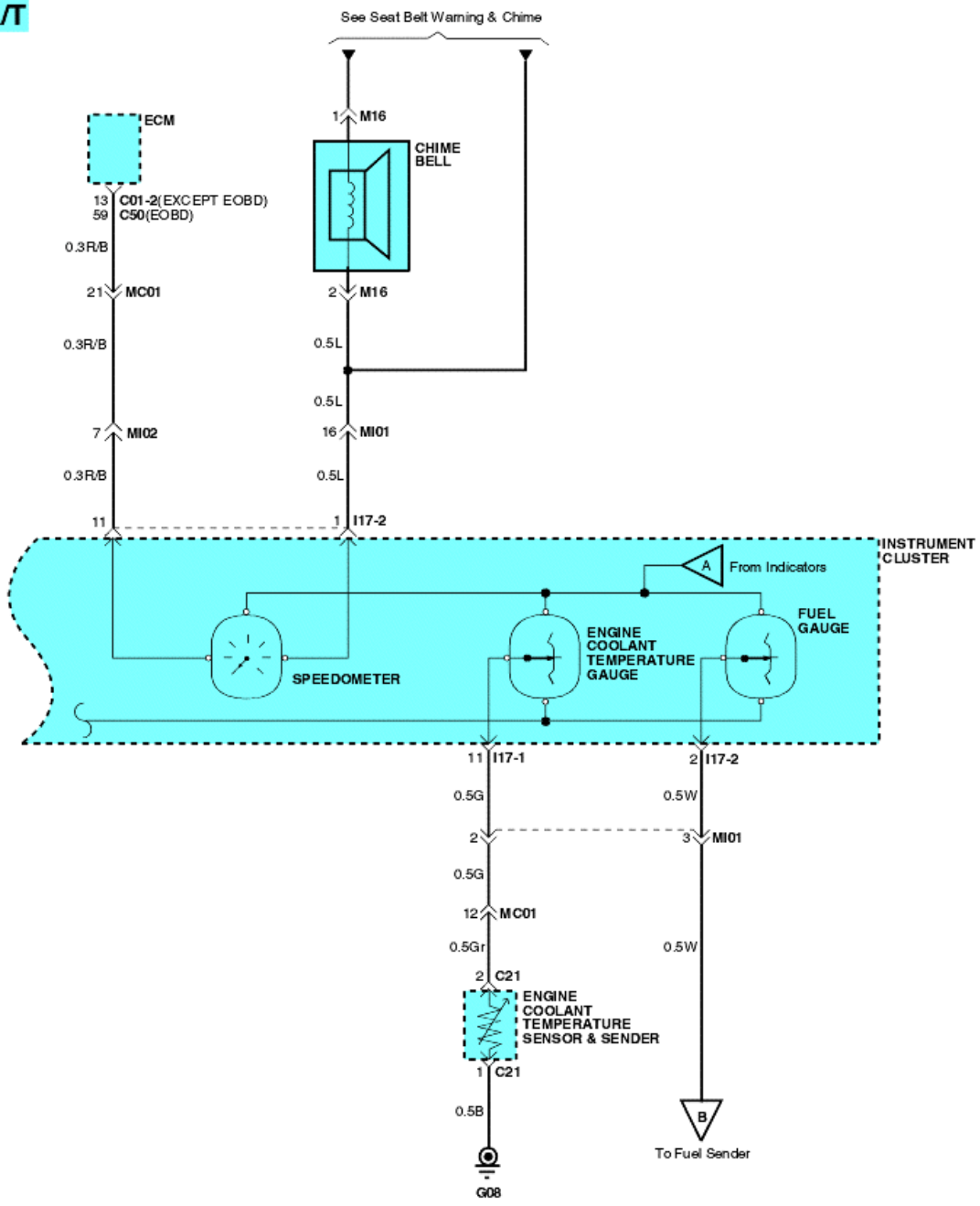

From Fuse 15
A
B
0.5R/O
5
M61
C46
ATM CONNECTOR
ATM SHIFT LEVER
HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
IGN FUSIBLE LINK 50A
2.0W
See Power Distribution
ECU#2 FUSE 20A
2.0Gr
16
EM02
9
4
0.5B
0.5Gr/B
See Ground Distribution
2.0B
G01
0.85B
G07
MC01
With ATM Interlock
W/O ATM Interlock
MI01
0.5Br/B
3
I17-2
INSTRUMENT CLUSTER
O/D OFF
12
21
See Illuminations
18
11
See Power Distribution
W/O ATM Shift Lock
With ATM Shift Lock
0.85Gr
19
C05-1
TCM
O/D OFF signal
Memory power
Vehicle speed sensor signal
Ground
Reprogram switch
DLC K-line
8
1
19
7
0.5O/B
0.5P
C05-2
See Vehicle Speed Sensor
6
8
C45
MULTIPURPOSE CHECK CONNECTOR
5
13
MI03
2
I02
DATA LINK CONNECTOR

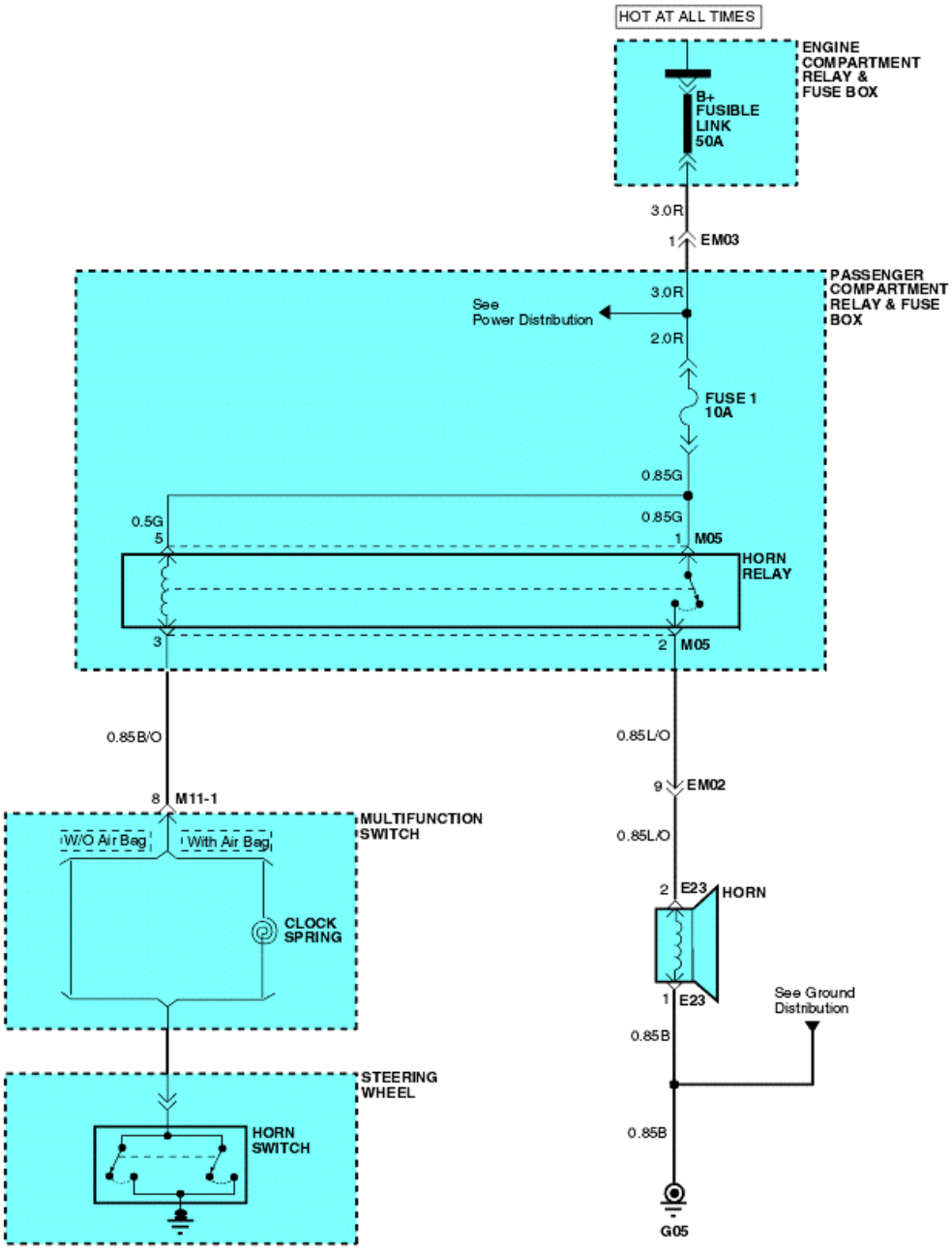

HOT AT ON
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 7
20 A
See Dash Fuse Details
2.0G
2.0G
18 EM02
2.0G
1.25G
0.85G
See Rear Wiper & Washer
0.85G
1
3 M18
INTERMI-TTENT WIPER RELAY
Relay
Intermittent Circuit
Normally open
Normally closed
5
4
6
2 M18
0.5Gr/B
5 EM01
0.5Gr/B
2.0G
2 E15
FRONT WASHER MOTOR
M
0.5B
A
To G01
1 E15
1
2 E07
PARKING SWITCH
Shown with wipers at rest
FRONT WIPER MOTOR
M
HI
LO
0.5O
0.5G/B
0.5G/B
0.5R/O
15 EM01
0.5G/B
3
4 E07
2.0L
2.0R
16
21 EM01
0.5G/B
2.0L
2.0R
10
8
5
6 M11-3
WASHER SWITCH
WASHER
INT
LO
OFF
HI
WIPER SWITCH
INT
LO
OFF
HI
MULTI-FUNCTION SWITCH
9
7 M11-3
From Intermittent Wiper Relay
See Ground Distribution
A
1.25B
0.5B
1.25B
0.85B
G01

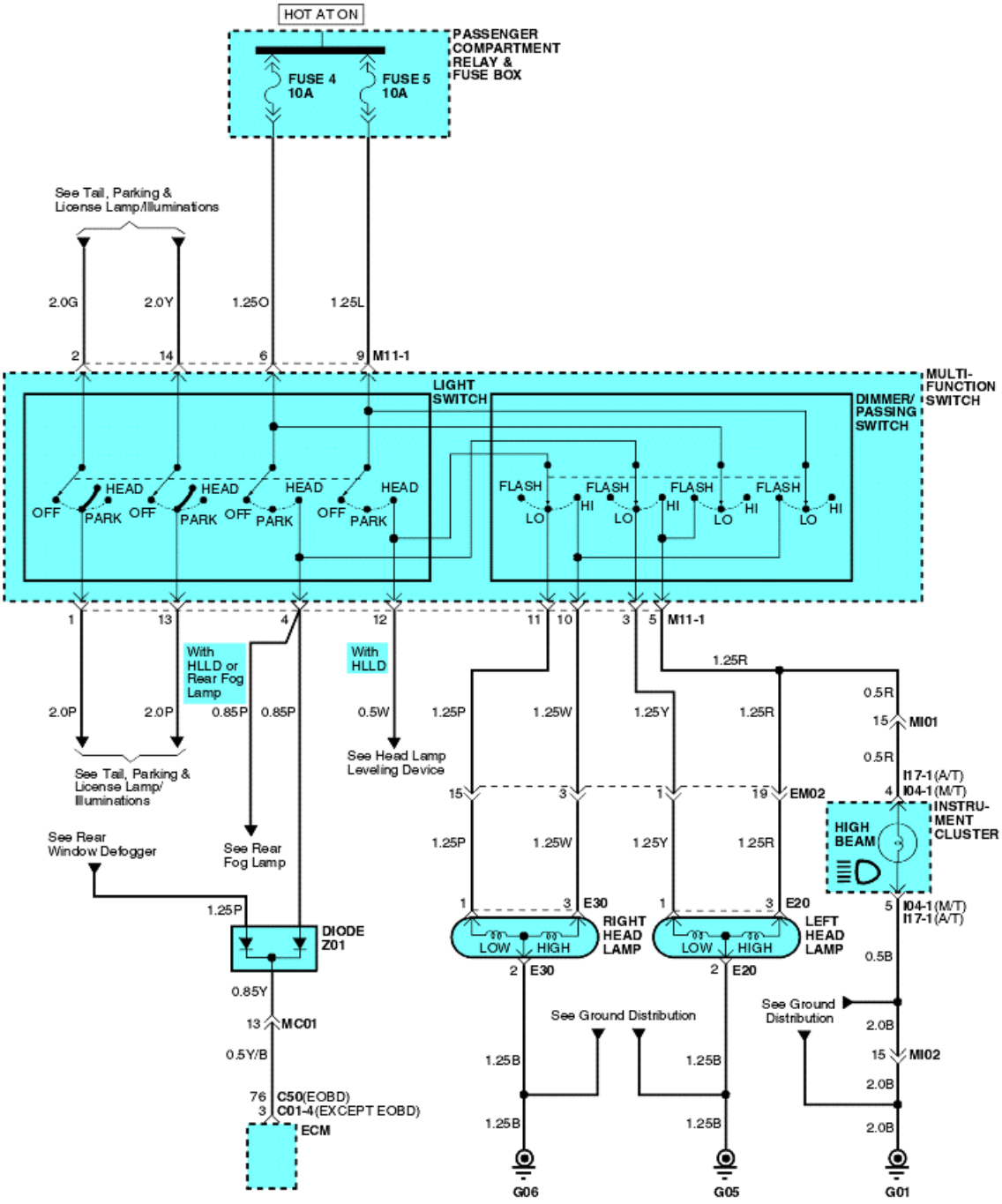

HOT AT ON OR START
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 16 10 A
See Dash Fuse Details
M/T : I04-1, I04-2
A/T : I17-1, I17-2
0.5L/O
18 MI01
9 I17-1 I04-1
To Gauge
INSTRUMENT CLUSTER
OIL PRESSURE IND.
CHECK MIL IND.
LOW FUEL IND.
ABS IND.
CHARGE WARNING IND.
BRAKE WARNING IND.
SEAT BELT IND.
I04-2 I17-2
I04-1 I17-1
TCI
Except TCI
MC01
EM01
C41
E24
OIL PRESSURE SWITCH
See MFI Control System
See Anti-Lock Brake System
See Seat Belt Warning & chime
From Fuel Gauge
See Daytime Running Lights
EM02
EE01
M34
FUEL TANK
FUEL SENDER
Fuel level float
FULL
EMPTY
Gauge sender
Ther-mistor
See Ground Distribution
E08
BRAKE FLUID LEVEL SENSOR
E37-2
GENER-ATOR
M21
PARKING BRAKE SWITCH
G04
G05


HOT AT ON OR START
HOT AT ALL TIMES
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 17 10A
FUSE 12 10A
See Dash Fuse Details
0.5Y/O
0.5Br
See Dash Fuse Details
See Head Lamps/DRL
0.5Br
19
1
15
MI01
See Illuminations
See Automatic transaxle control system
See Turn & Hazard Lamps
0.5Y/O
0.5Br
0.5R
9 I17-2
7 I04-2
14
4
1 I17-1 I04-1
3 I17-2
2 I04-1 I17-1
13 I17-2 I04-2
INSTRUMENT CLUSTER
Illumination
AIR BAG IND.
AIR BAG
DOOR AJAR IND.
IMMO
HIGH BEAM IND.
O/D OFF
O/D OFF
LEFT TURN IND.
RIGHT TURN IND.
6 I04-2
8 I17-2
12
13
5 I04-1 I17-1
14
12 I04-2 I17-2
See Ground Distribution
0.5Gr
0.5L/B
0.5L/O
0.5B
0.5B
0.5B
2.0B
3 MI02
17
14 MI03
15 MI02
21 MI01
2.0B
0.5B
2.0B
See Air Bag System
See Courtesy & Luggage Room Lamps
See Immobilizer Control System
G01

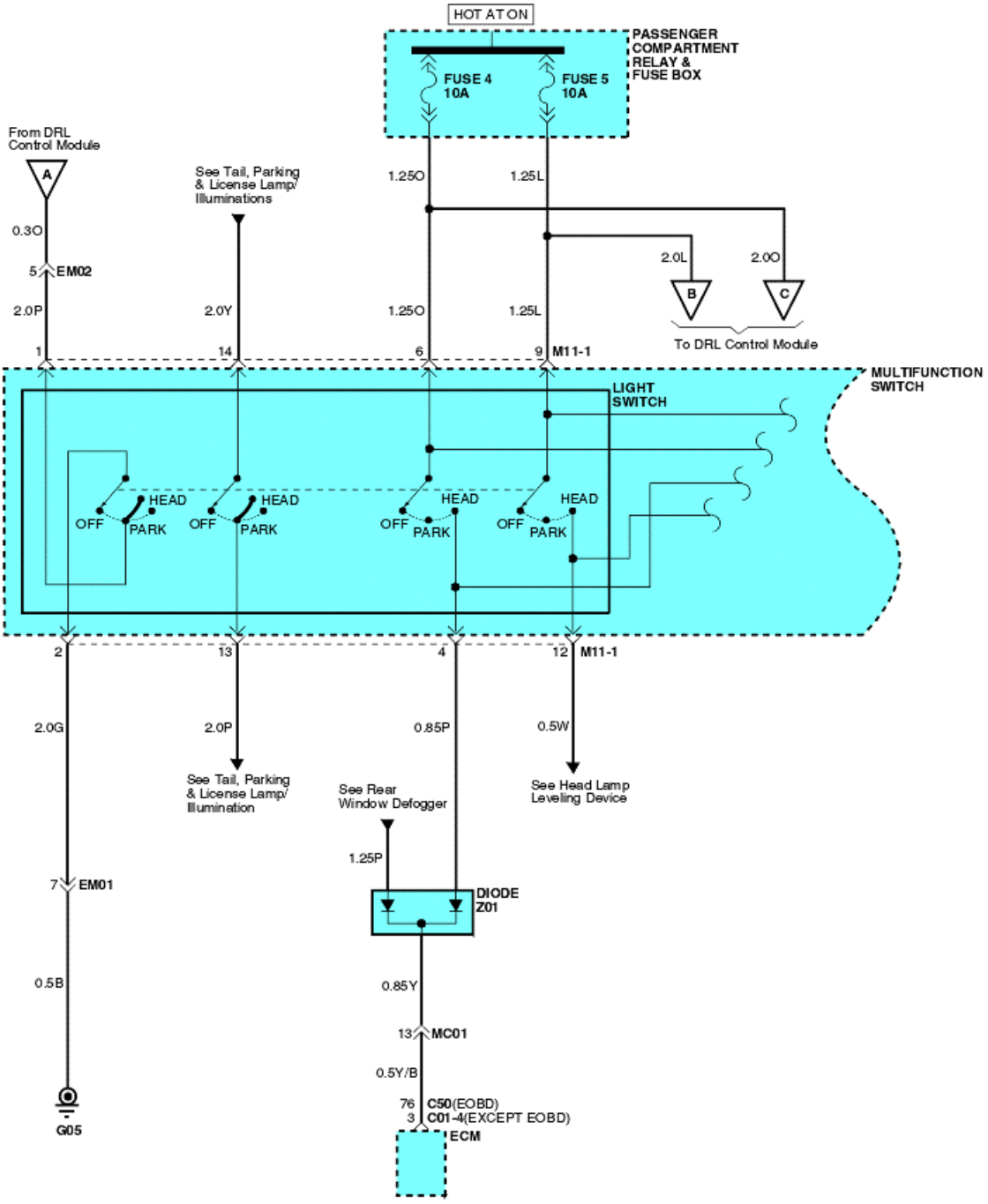
A/T

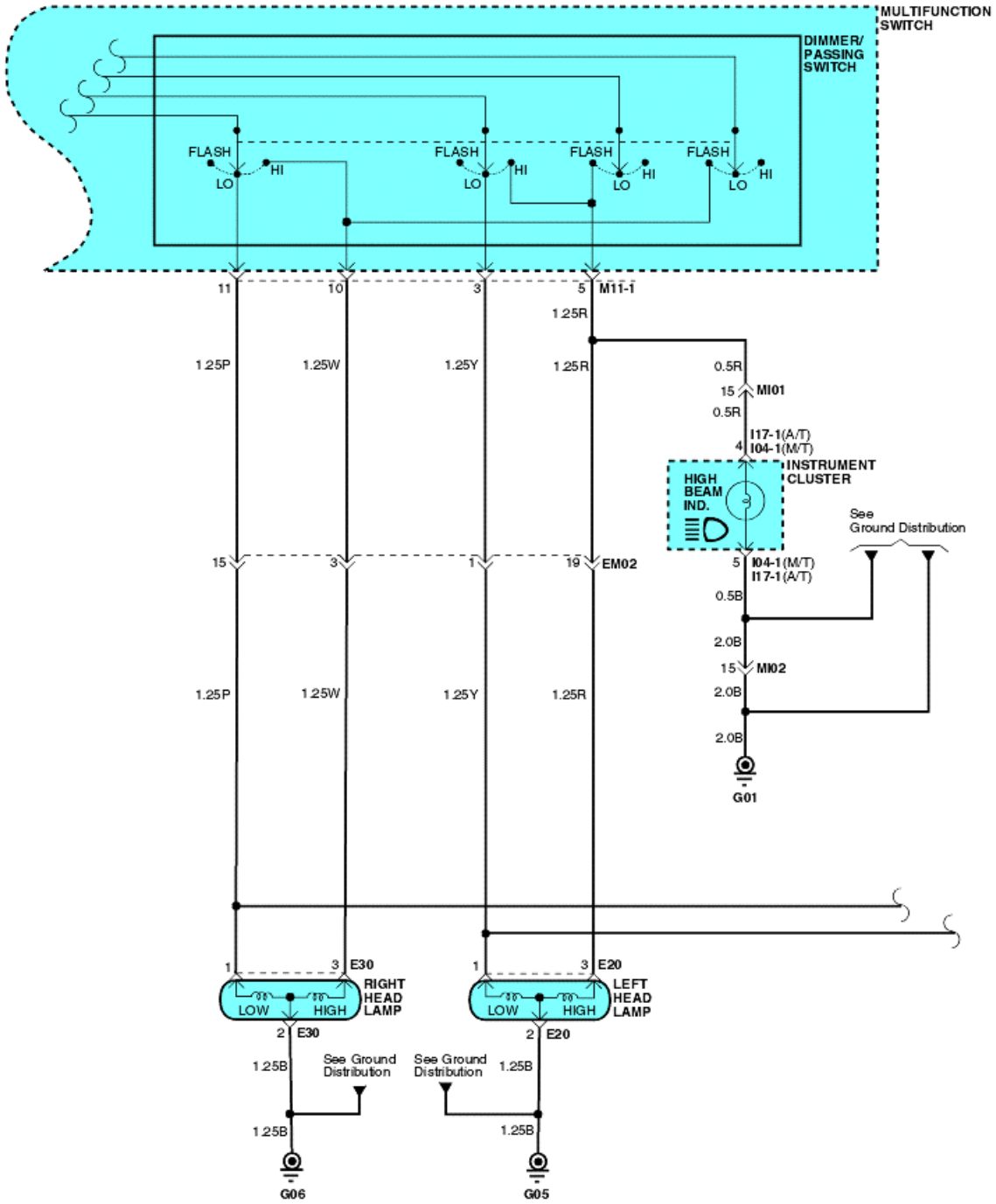

See Seat Belt Warning & Chime
ECM
13
59
C01-2(EXCEPT EOBD)
C50(EOBD)
0.3R/B
21
MC01
0.3R/B
7
MI02
0.3R/B
11
1
M16
CHIME
BELL
2
M16
0.5L
0.5L
16
MI01
0.5L
1
I17-2
INSTRUMENT
CLUSTER
A
From Indicators
FUEL
GAUGE
ENGINE
COOLANT
TEMPERATURE
GAUGE
SPEEDOMETER
11
I17-1
0.5G
2
0.5G
12
MC01
0.5Gr
2
C21
ENGINE
COOLANT
TEMPERATURE
SENSOR & SENDER
1
C21
0.5B
G08
2
I17-2
0.5W
3
MI01
0.5W
B
To Fuel Sender

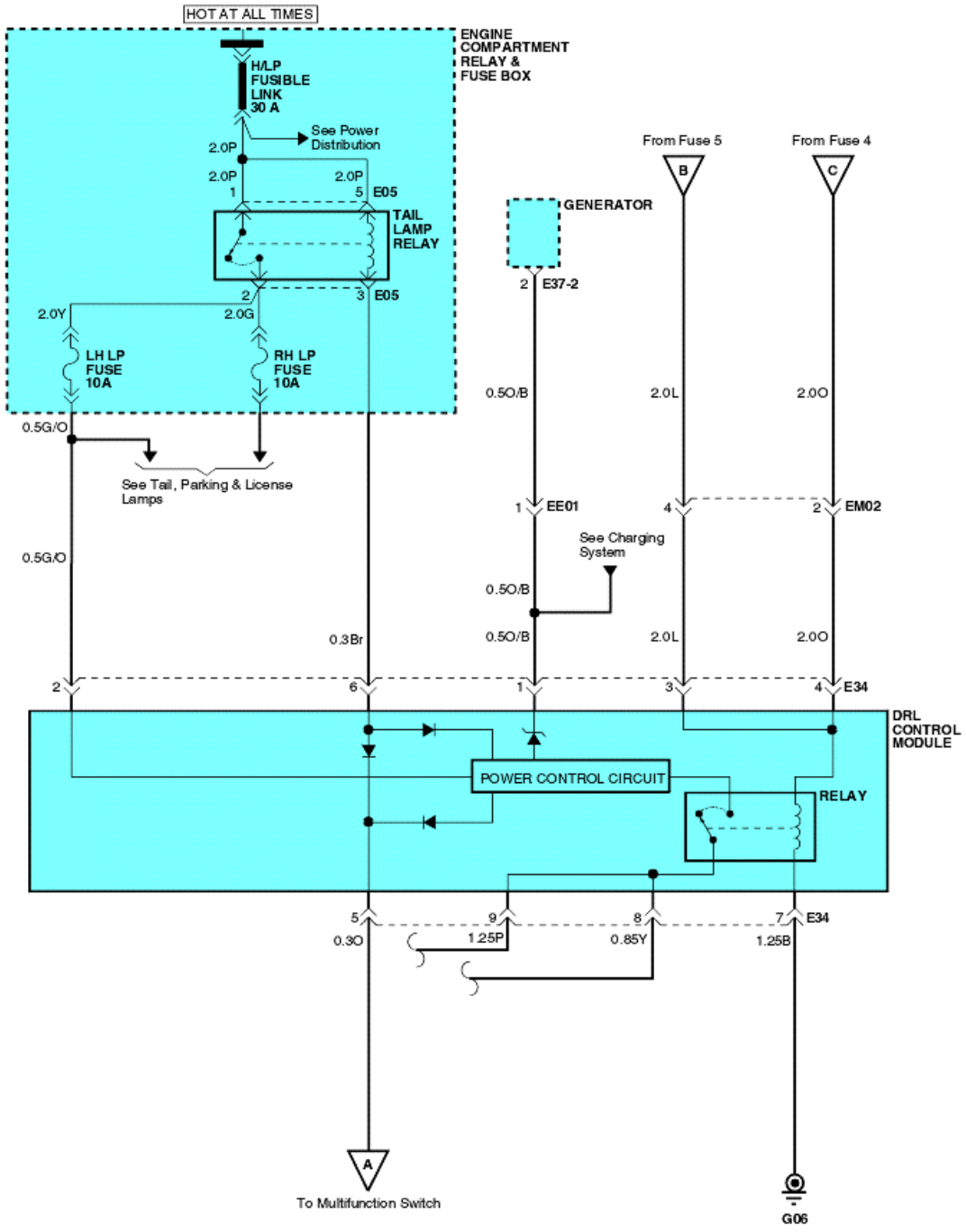

HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
B+ FUSIBLE LINK 50A
3.0R
1 EM03
PASSENGER COMPARTMENT RELAY & FUSE BOX
3.0R
See Power Distribution
2.0R
FUSE 1 10A
0.85G
0.85G
0.5G
5
1 M05
HORN RELAY
3
2 M05
0.85B/O
0.85L/O
8 M11-1
9 EM02
MULTIFUNCTION SWITCH
W/O Air Bag
With Air Bag
CLOCK SPRING
0.85L/O
2 E23 HORN
1 E23
See Ground Distribution
0.85B
STEERING WHEEL
HORN SWITCH
0.85B
G05

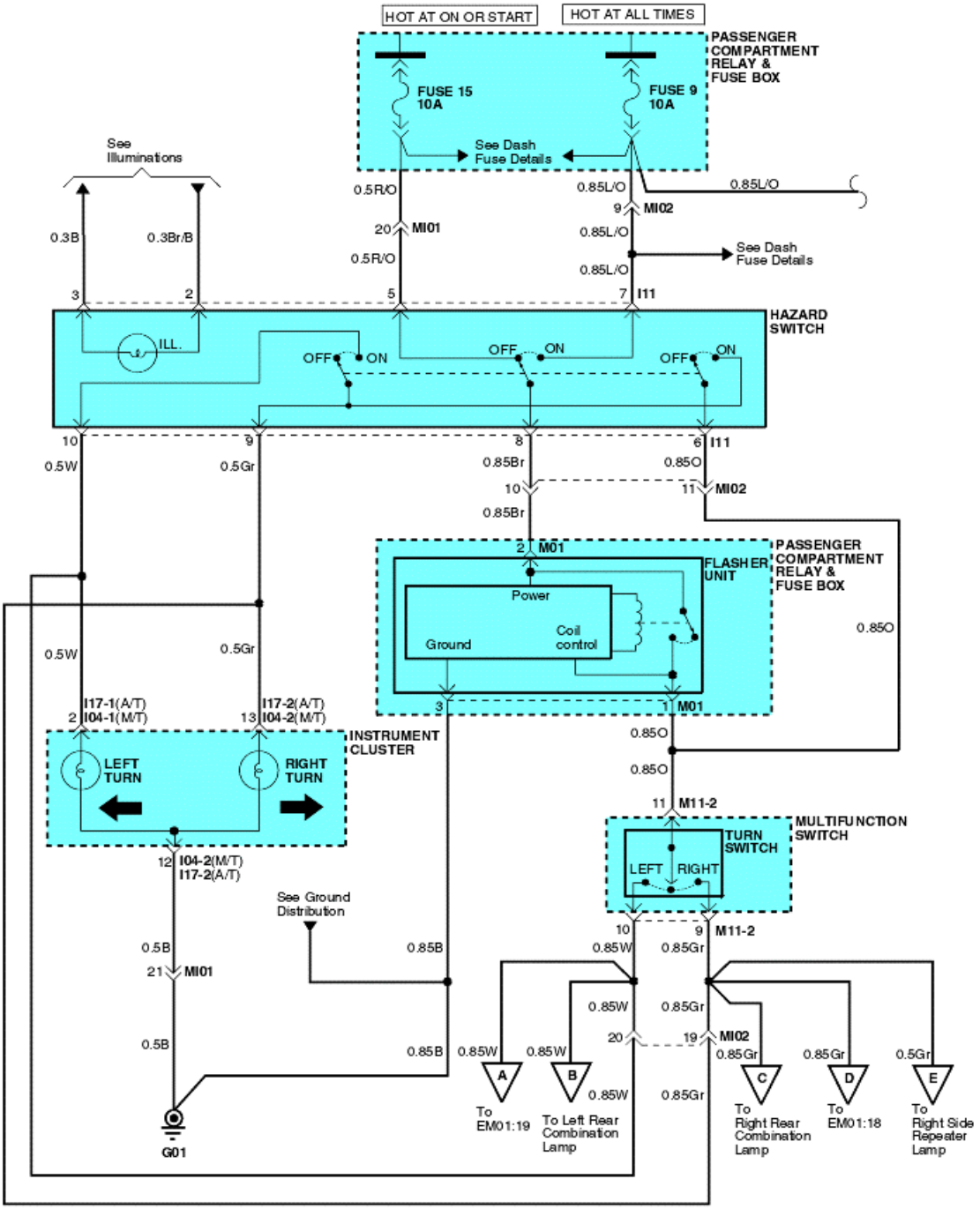

HOT AT ON
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 4 10A
FUSE 5 10A
See Tail, Parking & License Lamp/Illuminations
2.0G
2.0Y
1.25O
1.25L
2
14
6
9
M11-1
LIGHT SWITCH
DIMMER/ PASSING SWITCH
MULTI-FUNCTION SWITCH
OFF
HEAD
PARK
FLASH
LO
HI
1
13
4
12
11
10
3
5
M11-1
With HLLD or Rear Fog Lamp
With HLLD
2.0P
0.85P
0.5W
1.25P
1.25W
1.25Y
1.25R
0.5R
See Tail, Parking & License Lamp/ Illuminations
See Head Lamp Leveling Device
15
MI01
I17-1 (A/T)
I04-1 (M/T)
INSTRU-MENT CLUSTER
HIGH BEAM
EM02
19
See Rear Window Defogger
See Rear Fog Lamp
DIODE Z01
E30
E20
RIGHT HEAD LAMP
LEFT HEAD LAMP
LOW
HIGH
0.5B
0.85Y
MC01
0.5Y/B
C50(EOBD)
C01-4(EXCEPT EOBD)
ECM
See Ground Distribution
2.0B
MI02
1.25B
G06
G05
G01

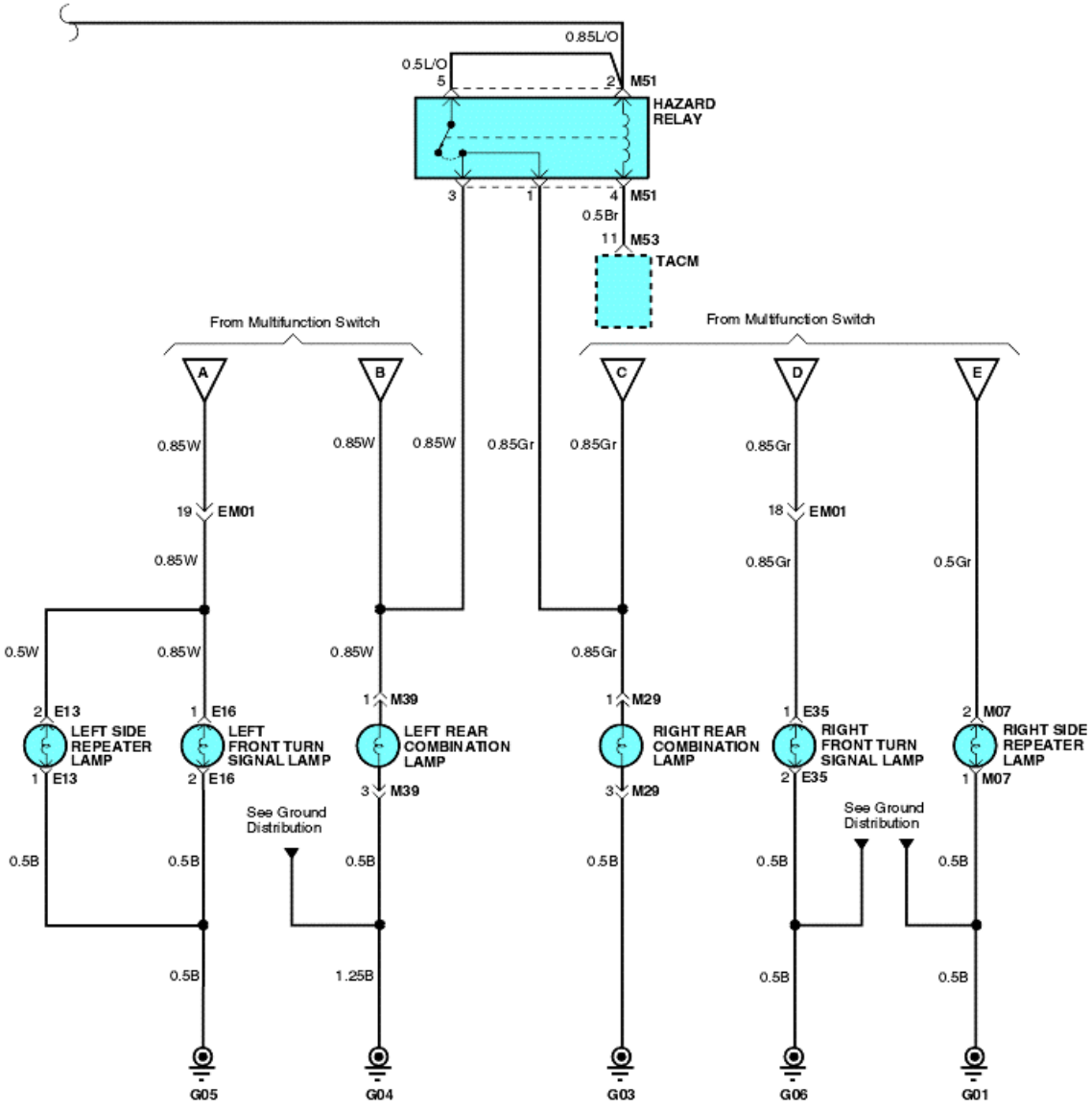
DAYTIME RUNNING LIGHTS E21C0310

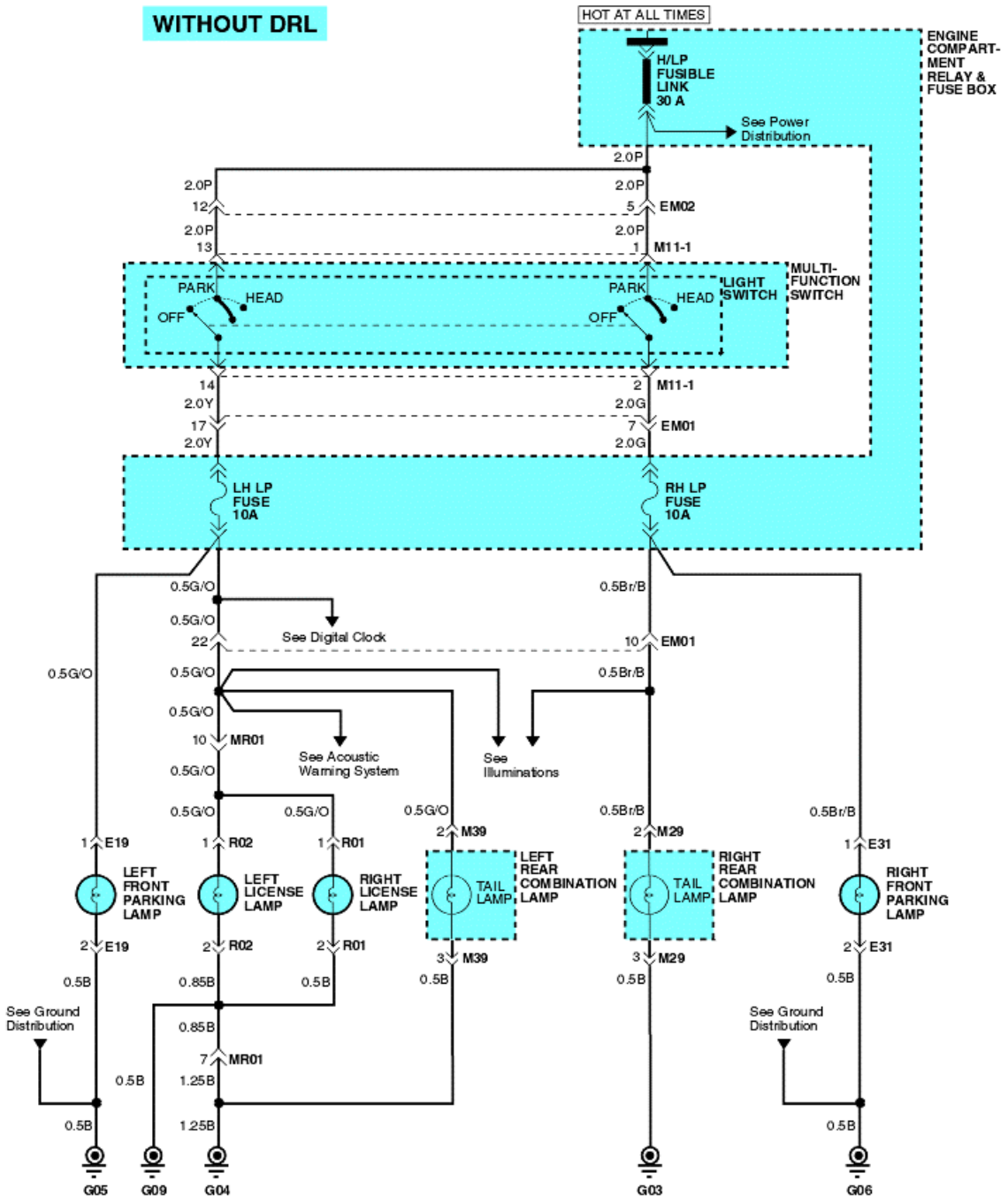


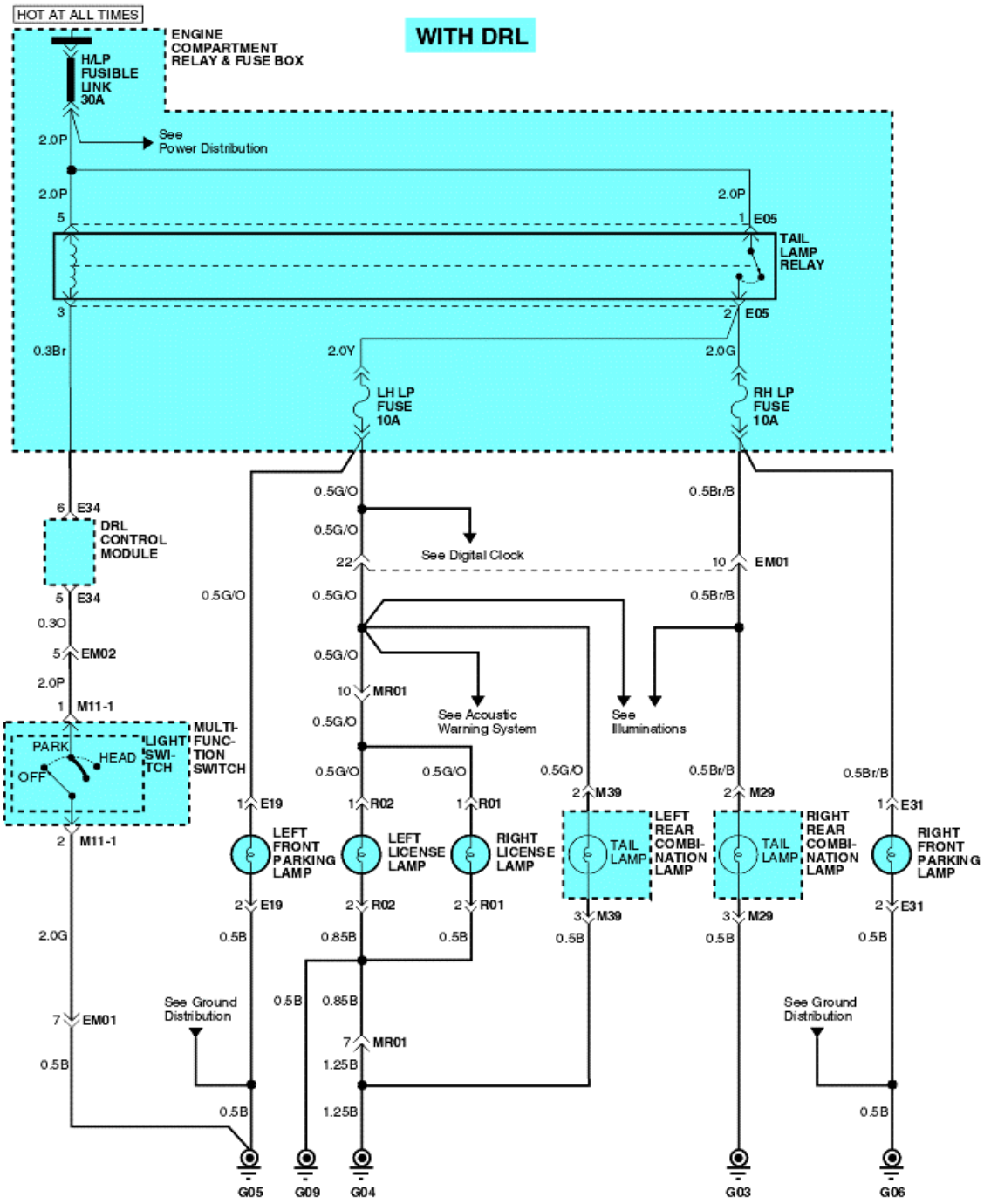

MULTIFUNCTION SWITCH
DIMMER/ PASSING SWITCH
FLASH
LO
HI
11
10
3
5
M11-1
1.25R
1.25P
1.25W
1.25Y
0.5R
15
MI01
I17-1(A/T)
I04-1(M/T)
INSTRUMENT CLUSTER
HIGH BEAM IND.
See Ground Distribution
EM02
19
1
2.0B
G01
E30
RIGHT HEAD LAMP
E20
LEFT HEAD LAMP
LOW
HIGH
See Ground Distribution
1.25B
G06
G05


HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
H/LP FUSIBLE LINK 30 A
See Power Distribution
2.0P
2.0P
1
2.0P
5
E05
TAIL LAMP RELAY
2
3
E05
2.0Y
2.0G
LH LP FUSE 10A
RH LP FUSE 10A
0.5G/O
See Tail, Parking & License Lamps
0.5G/O
0.3Br
GENERATOR
2
E37-2
0.5O/B
1
EE01
See Charging System
0.5O/B
0.5O/B
From Fuse 5
B
2.0L
4
2.0L
From Fuse 4
C
2.0O
2
EM02
2.0O
2
6
1
3
4
E34
DRL CONTROL MODULE
POWER CONTROL CIRCUIT
RELAY
5
9
8
7
E34
0.3O
1.25P
0.85Y
1.25B
A
To Multifunction Switch
G06

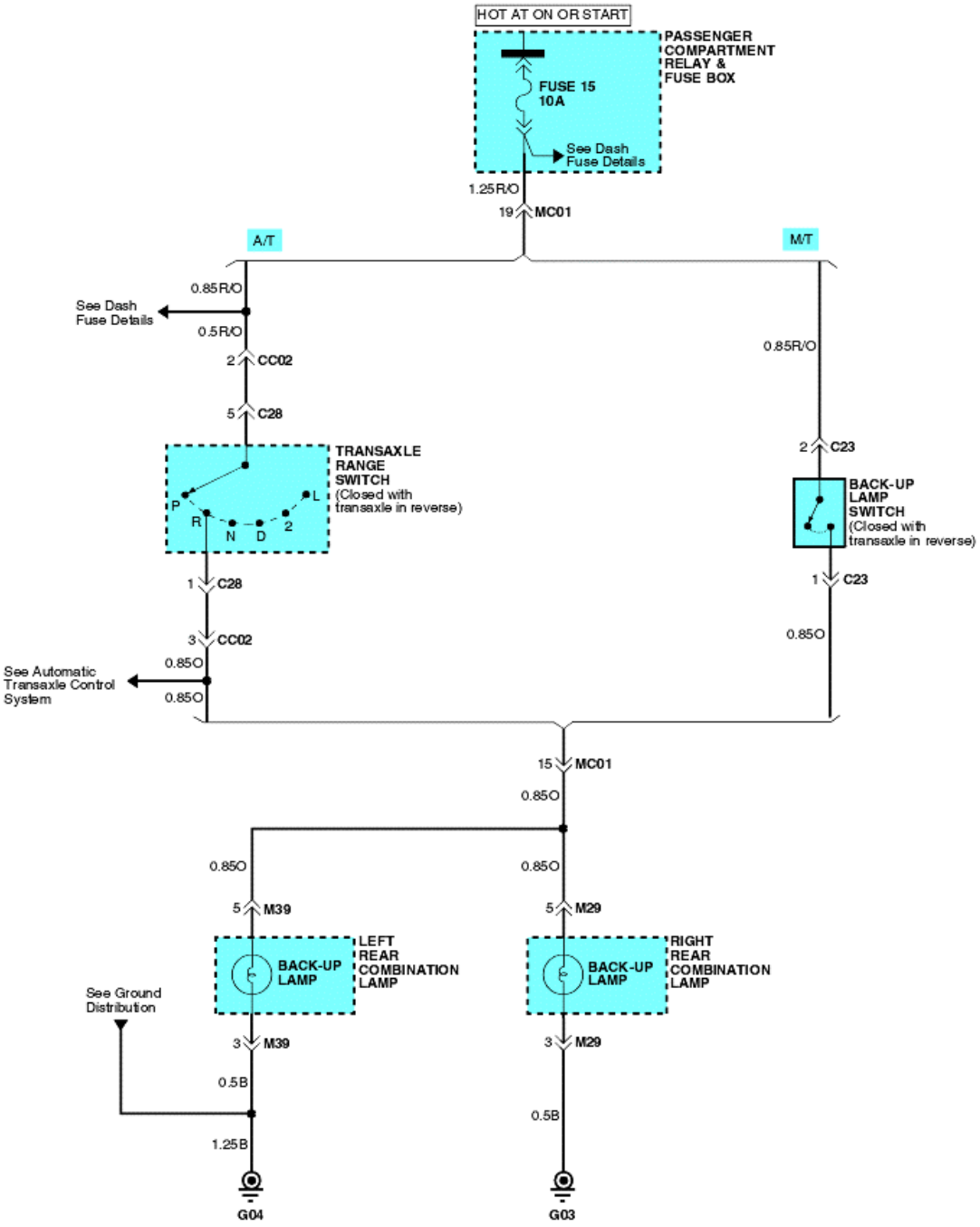

HOT AT ON OR START
HOT AT ALL TIMES
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 15 10A
FUSE 9 10A
See Dash Fuse Details
See Illuminations
0.5R/O
0.85L/O
MI01
MI02
0.3B
0.3Br/B
HAZARD SWITCH
ILL.
OFF
ON
I11
0.5W
0.5Gr
0.85Br
0.85O
FLASHER UNIT
Power
Ground
Coil control
M01
I17-1(A/T)
I04-1(M/T)
I17-2(A/T)
I04-2(M/T)
INSTRUMENT CLUSTER
LEFT TURN
RIGHT TURN
M11-2
MULTIFUNCTION SWITCH
TURN SWITCH
LEFT
RIGHT
See Ground Distribution
0.5B
0.85B
0.85W
0.85Gr
G01
A
B
C
D
E
To EM01:19
To Left Rear Combination Lamp
To Right Rear Combination Lamp
To EM01:18
To Right Side Repeater Lamp

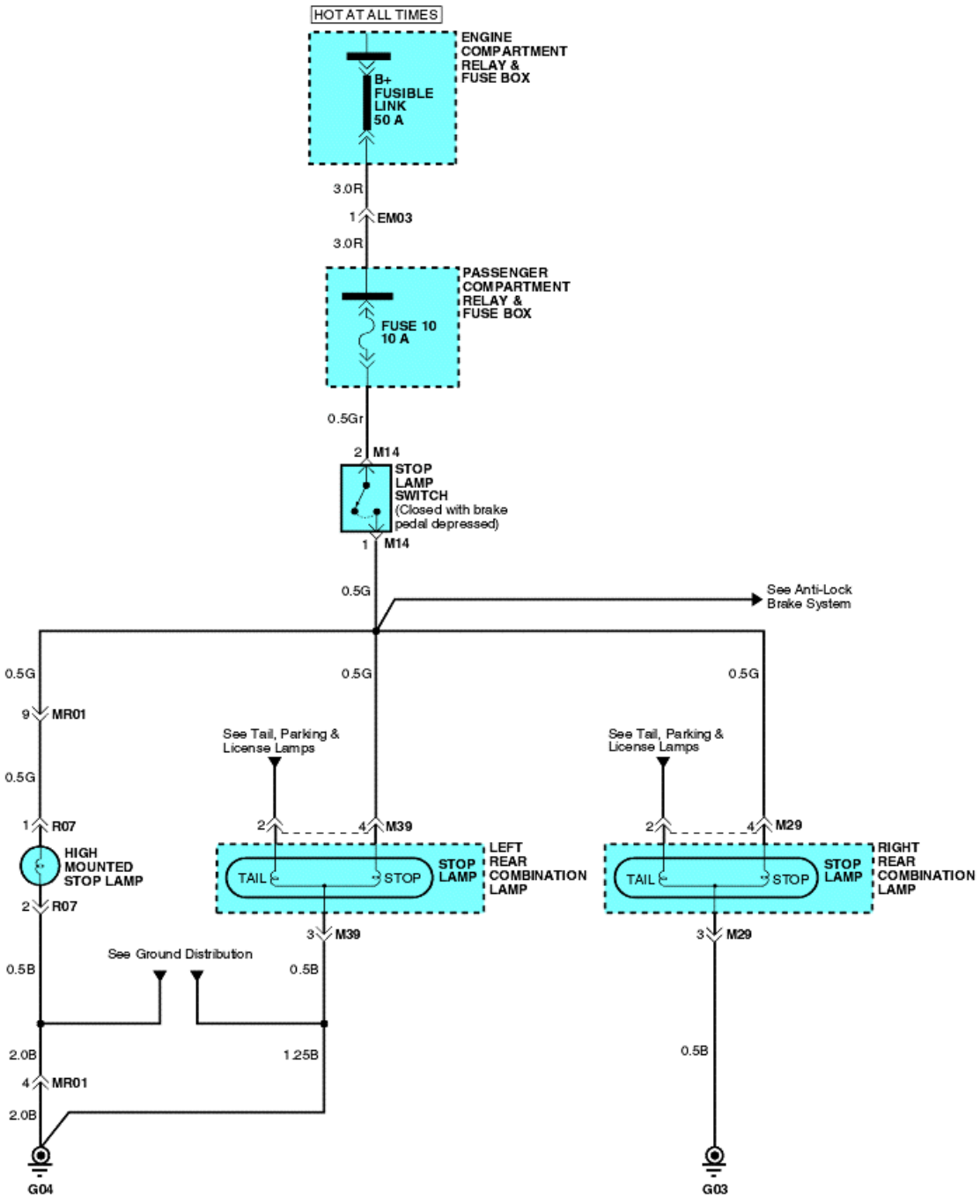

0.85L/O
0.5L/O
5
2
M51
HAZARD RELAY
3
1
4
M51
0.5Br
11
M53
TACM
From Multifunction Switch
From Multifunction Switch
A
B
C
D
E
0.85W
0.85W
0.85W
0.85Gr
0.85Gr
0.85Gr
0.5Gr
19
EM01
18
EM01
0.85W
0.85Gr
0.5W
0.85W
0.85W
0.85Gr
1
M39
1
M29
2
E13
LEFT SIDE REPEATER LAMP
1
E13
1
E16
LEFT FRONT TURN SIGNAL LAMP
2
E16
LEFT REAR COMBINATION LAMP
3
M39
RIGHT REAR COMBINATION LAMP
3
M29
1
E35
RIGHT FRONT TURN SIGNAL LAMP
2
E35
2
M07
RIGHT SIDE REPEATER LAMP
1
M07
See Ground Distribution
See Ground Distribution
0.5B
0.5B
0.5B
0.5B
0.5B
0.5B
0.5B
0.5B
1.25B
G05
G04
G03
G06
G01

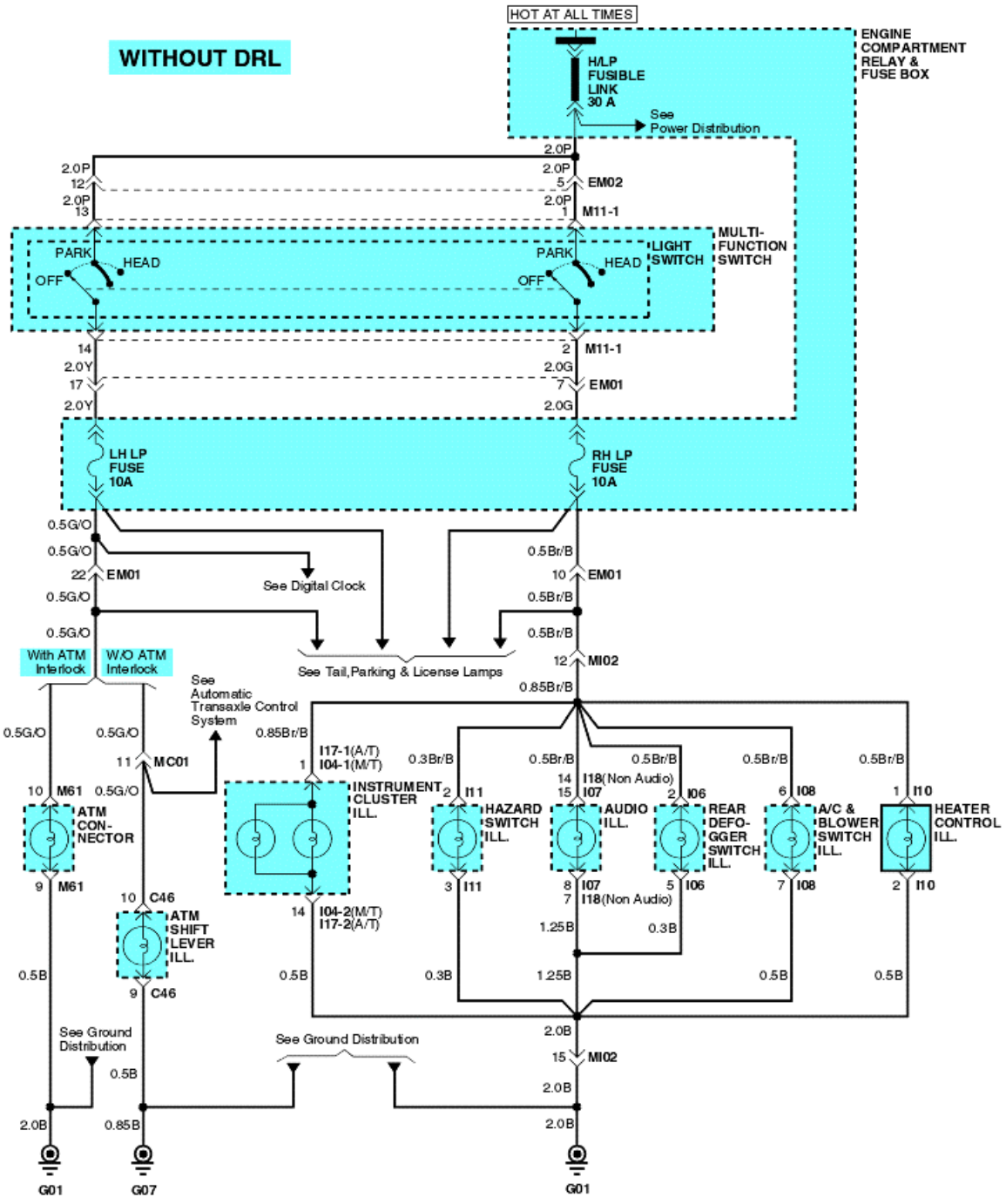

WITHOUT DRL
HOT AT ALL TIMES
ENGINE COMPART-MENT RELAY & FUSE BOX
H/LP FUSIBLE LINK 30 A
See Power Distribution
2.0P
2.0P
12
2.0P
13
5
EM02
2.0P
1
M11-1
MULTI-FUNCTION SWITCH
LIGHT SWITCH
PARK
HEAD
OFF
PARK
HEAD
OFF
14
2.0Y
17
2.0Y
2
2.0G
7
2.0G
M11-1
EM01
LH LP FUSE 10A
RH LP FUSE 10A
0.5G/O
0.5G/O
22
See Digital Clock
0.5G/O
0.5G/O
0.5G/O
10
MR01
0.5G/O
See Acoustic Warning System
See Illuminations
0.5G/O
0.5G/O
0.5G/O
0.5Br/B
10
EM01
0.5Br/B
0.5Br/B
0.5Br/B
1
E19
LEFT FRONT PARKING LAMP
2
E19
0.5B
See Ground Distribution
0.5B
G05
1
R02
LEFT LICENSE LAMP
2
R02
0.85B
0.85B
7
MR01
0.5B
1.25B
1.25B
G09
G04
1
R01
RIGHT LICENSE LAMP
2
R01
0.5B
2
M39
TAIL LAMP
LEFT REAR COMBINATION LAMP
3
M39
0.5B
2
M29
TAIL LAMP
RIGHT REAR COMBINATION LAMP
3
M29
0.5B
G03
1
E31
RIGHT FRONT PARKING LAMP
2
E31
0.5B
See Ground Distribution
0.5B
G06

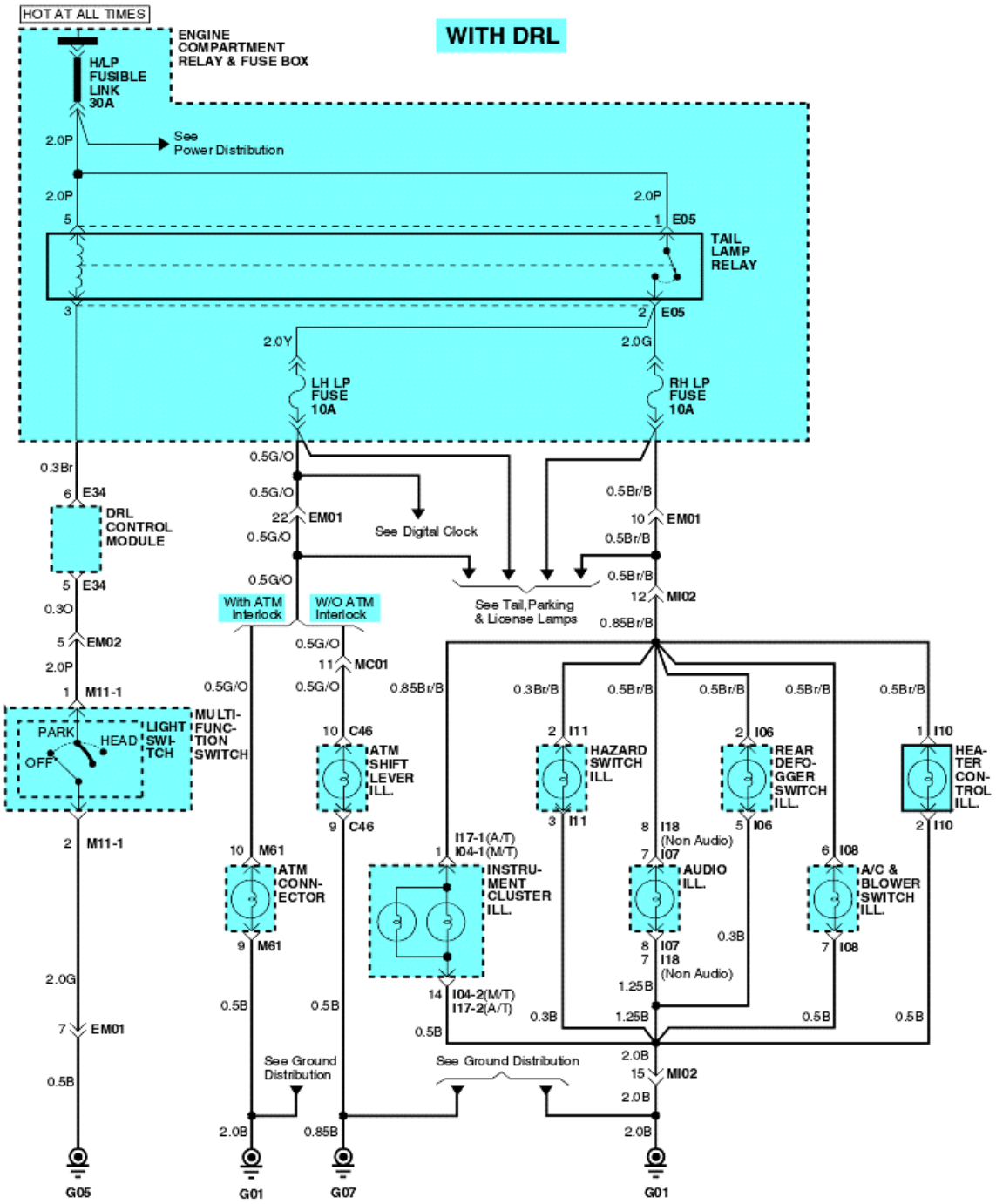

HOT AT ALL TIMES
WITH DRL
ENGINE COMPARTMENT RELAY & FUSE BOX
H/LP FUSIBLE LINK 30A
2.0P
See Power Distribution
2.0P
5
2.0P
1
E05
TAIL LAMP RELAY
3
2
E05
0.3Br
2.0Y
2.0G
LH LP FUSE 10A
RH LP FUSE 10A
6
E34
DRL CONTROL MODULE
5
E34
0.3O
5
EM02
2.0P
1
M11-1
PARK
HEAD
OFF
LIGHT SWI-TCH
MULTI-FUNC-TION SWITCH
2
M11-1
2.0G
7
EM01
0.5B
0.5G/O
0.5G/O
22
See Digital Clock
10
EM01
0.5Br/B
0.5G/O
0.5G/O
0.5G/O
10
MR01
0.5G/O
See Acoustic Warning System
See Illuminations
0.5G/O
0.5G/O
0.5G/O
0.5Br/B
0.5Br/B
1
E19
1
R02
1
R01
2
M39
2
M29
1
E31
LEFT FRONT PARKING LAMP
LEFT LICENSE LAMP
RIGHT LICENSE LAMP
TAIL LAMP
LEFT REAR COMBI-NATION LAMP
TAIL LAMP
RIGHT REAR COMBI-NATION LAMP
RIGHT FRONT PARKING LAMP
2
E19
2
R02
2
R01
3
M39
3
M29
2
E31
0.5B
0.85B
0.5B
0.5B
0.5B
0.5B
See Ground Distribution
See Ground Distribution
0.5B
0.85B
7
MR01
1.25B
0.5B
1.25B
0.5B
G05
G09
G04
G03
G06

BACK-UP LAMPS E21C0370

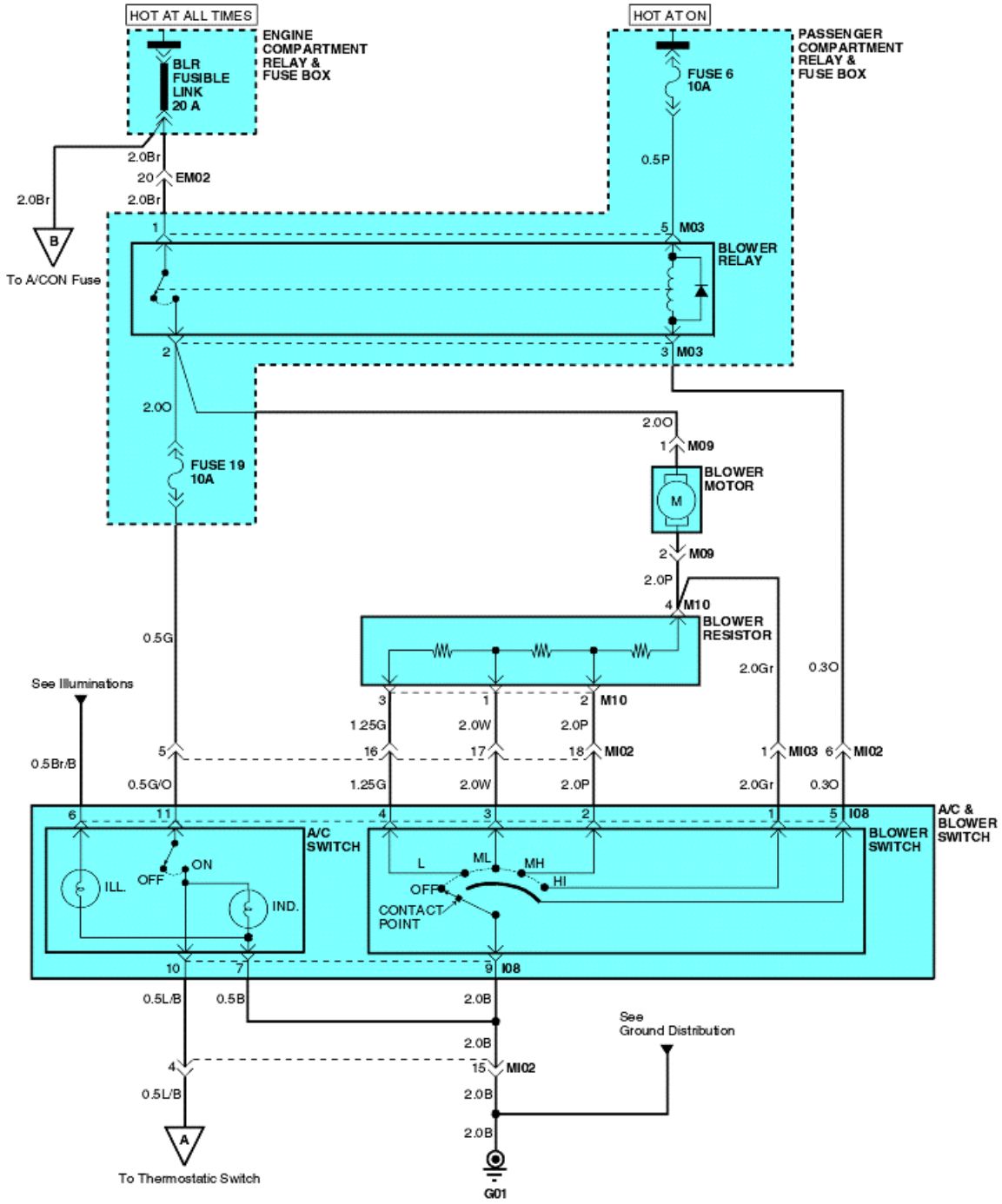


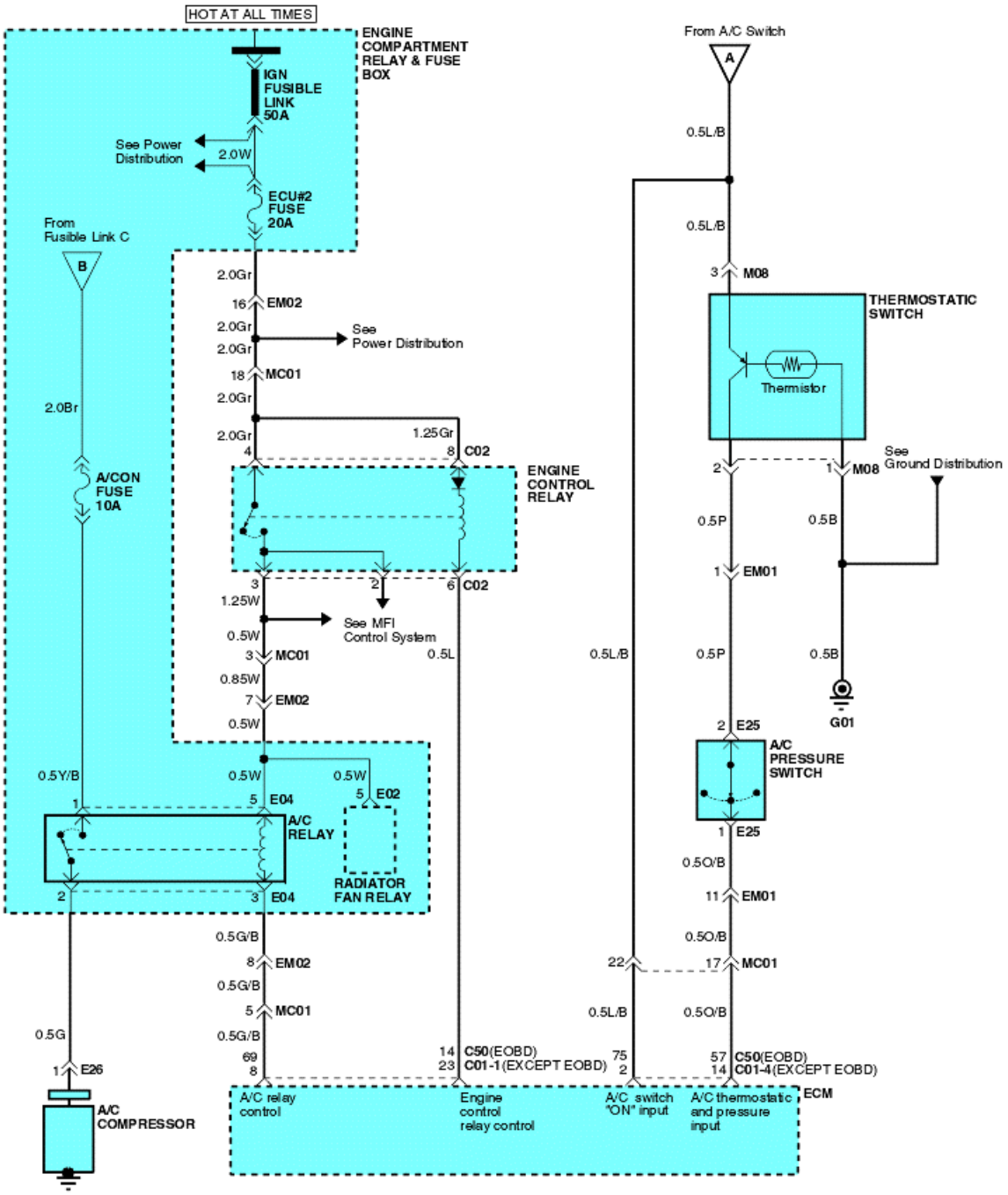

HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
B+ FUSIBLE LINK 50 A
3.0R
1 EM03
3.0R
PASSENGER COMPARTMENT RELAY & FUSE BOX
FUSE 10 10 A
0.5Gr
2 M14
STOP LAMP SWITCH
(Closed with brake pedal depressed)
1 M14
0.5G
See Anti-Lock Brake System
0.5G
9 MR01
0.5G
1 R07
HIGH MOUNTED STOP LAMP
2 R07
0.5B
2.0B
4 MR01
2.0B
G04
See Tail, Parking & License Lamps
2
4 M39
TAIL
STOP
STOP LAMP
LEFT REAR COMBINATION LAMP
3 M39
See Ground Distribution
0.5B
1.25B
See Tail, Parking & License Lamps
2
4 M29
TAIL
STOP
STOP LAMP
RIGHT REAR COMBINATION LAMP
3 M29
0.5B
G03


WITHOUT DRL
HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
H/LP FUSIBLE LINK 30 A
See Power Distribution
MULTI-FUNCTION SWITCH
LIGHT SWITCH
PARK
HEAD
OFF
LH LP FUSE 10A
RH LP FUSE 10A
EM01
EM02
M11-1
MI02
MC01
See Digital Clock
See Tail,Parking & License Lamps
With ATM Interlock
W/O ATM Interlock
See Automatic Transaxle Control System
ATM CON-NECTOR
M61
ATM SHIFT LEVER ILL.
C46
INSTRUMENT CLUSTER ILL.
I17-1(A/T)
I04-1(M/T)
I04-2(M/T)
I17-2(A/T)
HAZARD SWITCH ILL.
I11
AUDIO ILL.
I18(Non Audio)
I07
REAR DEFO-GGER SWITCH ILL.
I06
A/C & BLOWER SWITCH ILL.
I08
HEATER CONTROL ILL.
I10
See Ground Distribution
G01
G07


HOT AT ALL TIMES
WITH DRL
ENGINE COMPARTMENT RELAY & FUSE BOX
H/LP FUSIBLE LINK 30A
2.0P
See Power Distribution
2.0P
5
2.0P
1
E05
TAIL LAMP RELAY
3
2
E05
2.0Y
2.0G
LH LP FUSE 10A
RH LP FUSE 10A
0.3Br
6
E34
DRL CONTROL MODULE
5
E34
0.3O
5
EM02
2.0P
1
M11-1
0.5G/O
0.5G/O
22
EM01
0.5G/O
See Digital Clock
0.5Br/B
10
EM01
0.5Br/B
0.5G/O
0.5Br/B
12
MI02
0.85Br/B
With ATM Interlock
W/O ATM Interlock
See Tail, Parking & License Lamps
0.5G/O
11
MC01
0.5G/O
0.5G/O
0.85Br/B
0.3Br/B
0.5Br/B
0.5Br/B
0.5Br/B
0.5Br/B
PARK
HEAD
OFF
LIGHT SWITCH
MULTI-FUNCTION SWITCH
10
C46
ATM SHIFT LEVER ILL.
9
C46
2
I11
HAZARD SWITCH ILL.
3
I11
2
I06
REAR DEFOGGER SWITCH ILL.
5
I06
1
I10
HEATER CONTROL ILL.
2
I10
2
M11-1
10
M61
ATM CONNECTOR
9
M61
1
I17-1 (A/T)
I04-1 (M/T)
INSTRUMENT CLUSTER ILL.
8
I18
(Non Audio)
7
I07
AUDIO ILL.
6
I08
A/C & BLOWER SWITCH ILL.
7
I08
0.3B
8
I07
7
I18
(Non Audio)
2.0G
7
EM01
0.5B
0.5B
14
I04-2(M/T)
I17-2(A/T)
1.25B
0.3B
1.25B
0.5B
0.5B
0.5B
See Ground Distribution
See Ground Distribution
2.0B
15
MI02
2.0B
2.0B
0.85B
2.0B
G05
G01
G07
G01

BLOWER & A/C CONTROLS E21C0420

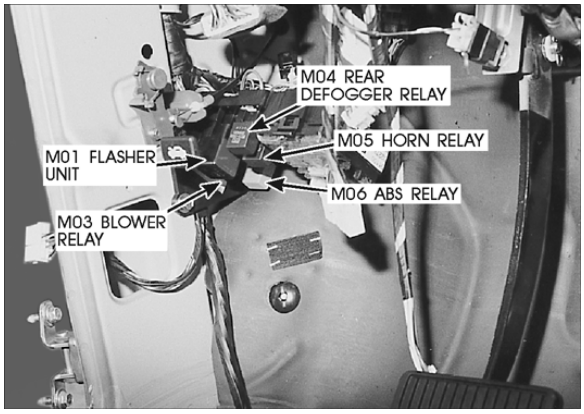



HOT AT ALL TIMES
ENGINE COMPARTMENT RELAY & FUSE BOX
IGN FUSIBLE LINK 50A
See Power Distribution
2.0W
ECU#2 FUSE 20A
From Fusible Link C
B
2.0Br
A/CON FUSE 10A
2.0Gr
16 EM02
See Power Distribution
18 MC01
1.25Gr
8 C02
4
ENGINE CONTROL RELAY
3
2
6 C02
1.25W
See MFI Control System
0.5W
3 MC01
0.85W
7 EM02
0.5W
0.5Y/B
1
0.5W
5 E04
0.5W
5 E02
A/C RELAY
RADIATOR FAN RELAY
2
3 E04
0.5G/B
8 EM02
0.5G/B
5 MC01
0.5G/B
69
8
0.5G
1 E26
A/C COMPRESSOR
0.5L
14 C50(EOBD)
23 C01-1(EXCEPT EOBD)
A/C relay control
Engine control relay control
From A/C Switch
A
0.5L/B
0.5L/B
3 M08
THERMOSTATIC SWITCH
Thermistor
2
1 M08
See Ground Distribution
0.5P
0.5B
1 EM01
0.5L/B
0.5P
0.5B
G01
2 E25
A/C PRESSURE SWITCH
1 E25
0.5O/B
11 EM01
0.5O/B
22
17 MC01
0.5L/B
0.5O/B
75
2
57 C50(EOBD)
14 C01-4(EXCEPT EOBD)
A/C switch "ON" input
A/C thermostatic and pressure input
ECM

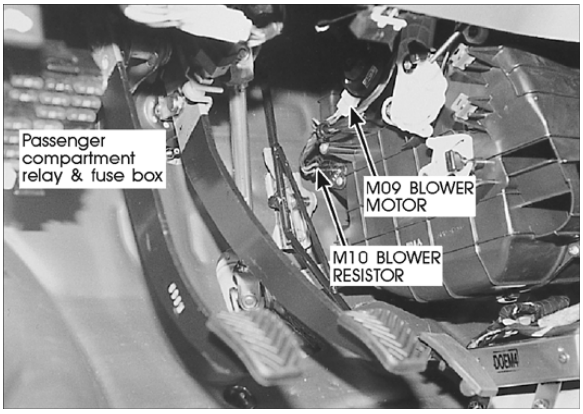
13.3 Component Location

MAIN HARNESS E31B0010

MAIN HARNESS (1)

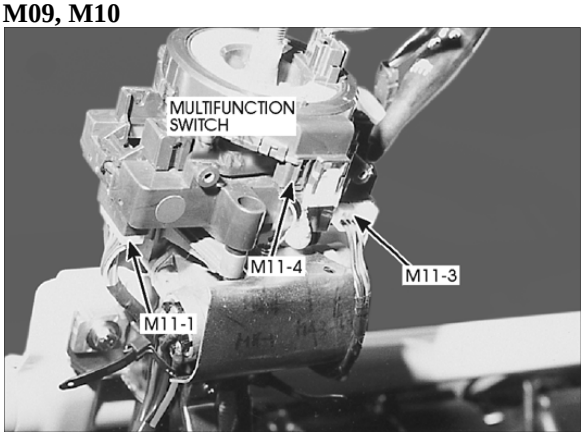


M01, M02, M05, M06

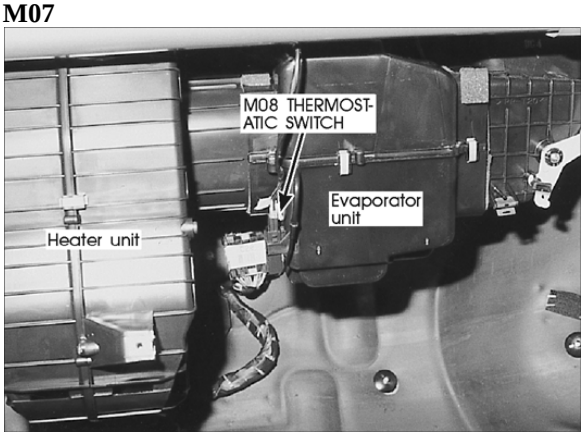


M09, M10

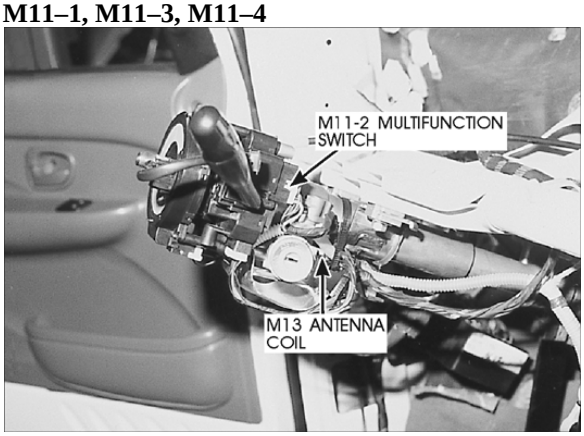
M07



M11–1, M11–3, M11–4

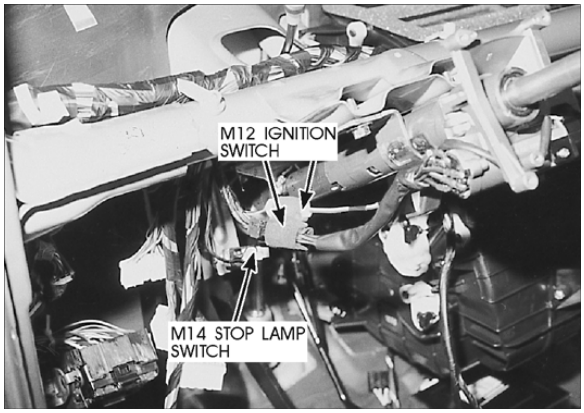


M08

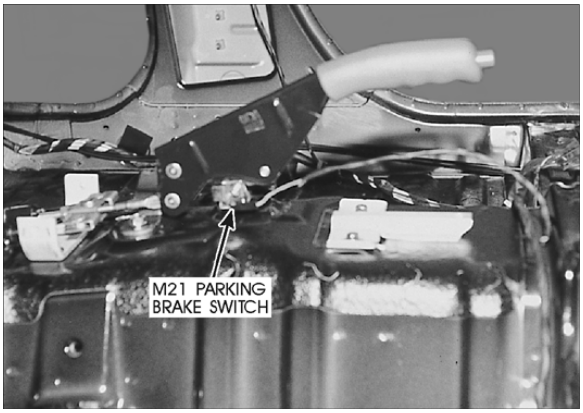


M11–2, M13

MAIN HARNESS (2)

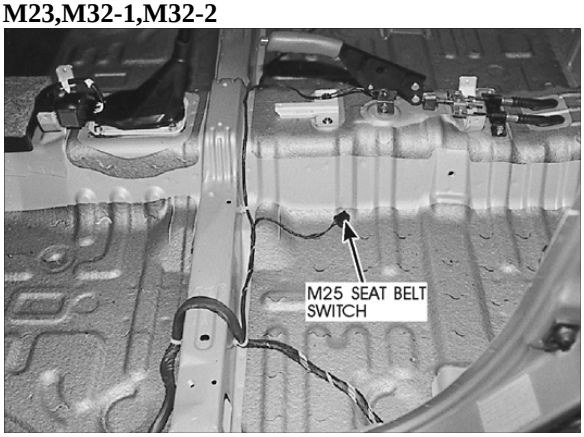


M15-1,M15-2,M15-3,M15-4

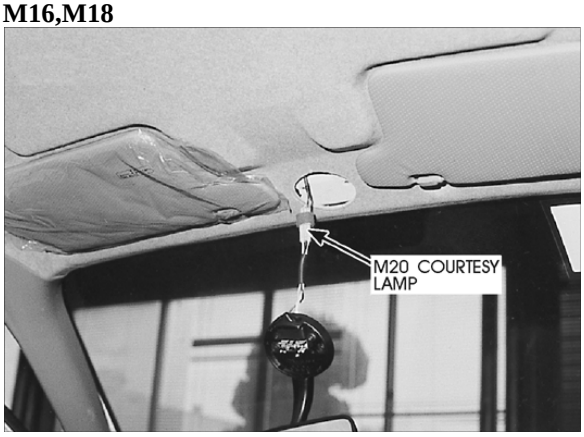


M23,M32-1,M32-2

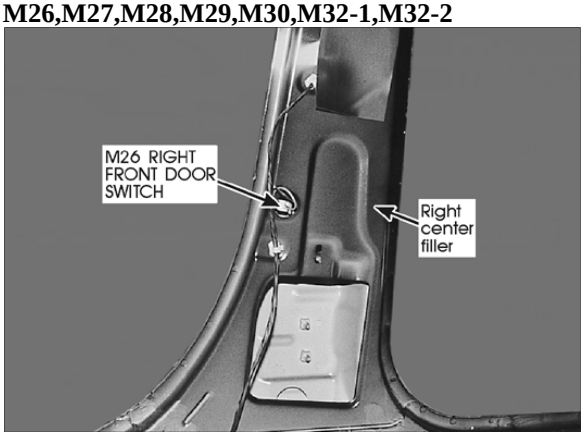
M16,M18



M26,M27,M28,M29,M30,M32-1,M32-2

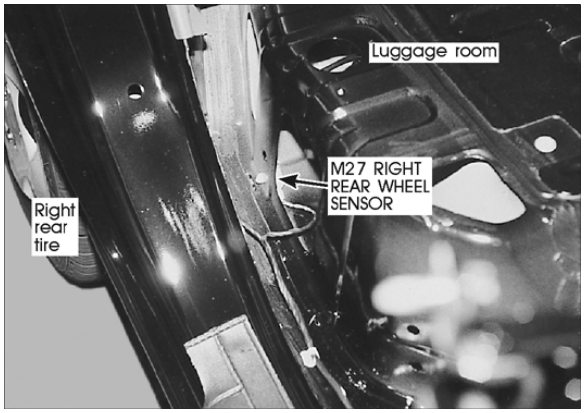


M20-1,M20-2,M20-3

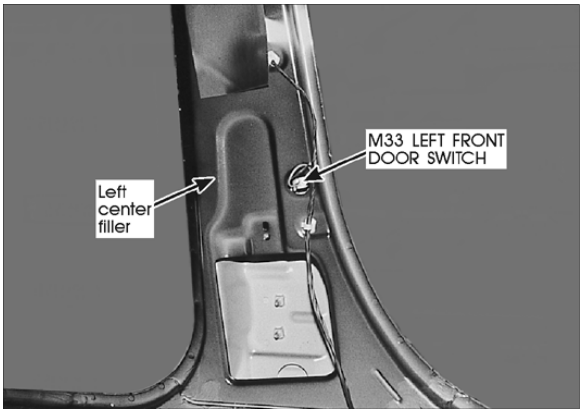


M31

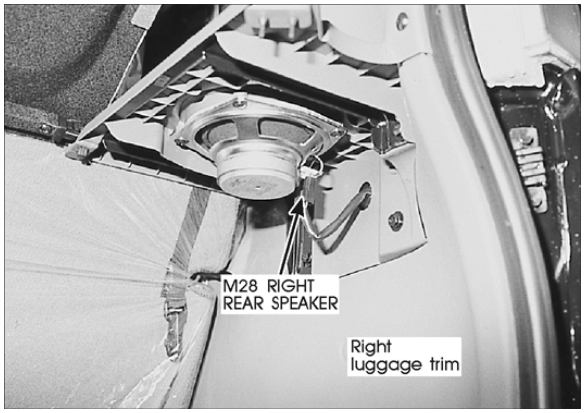
MAIN HARNESS (3)



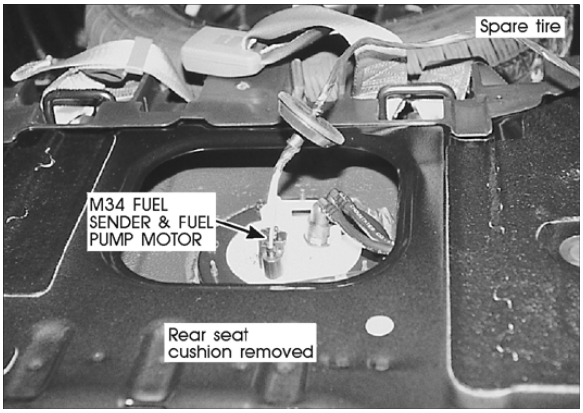
M27



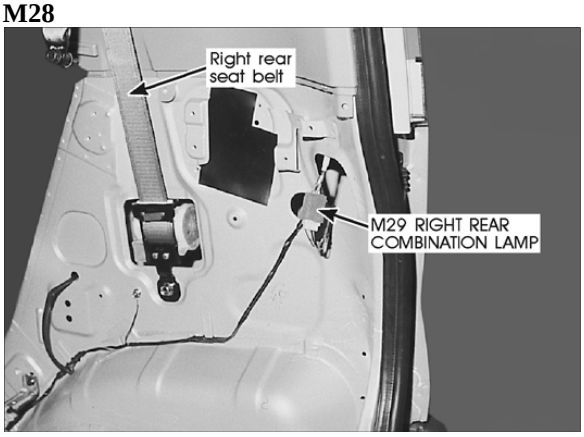
M33



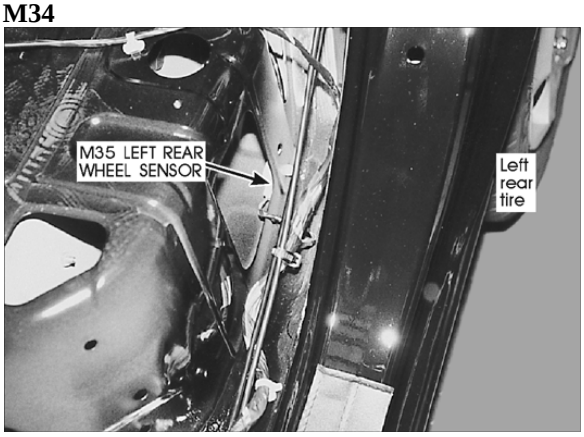
M28



M34

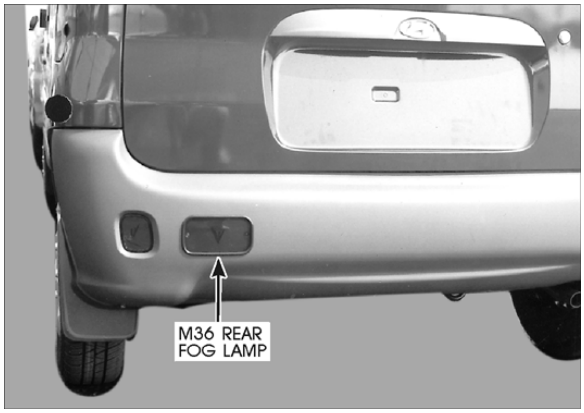


M29

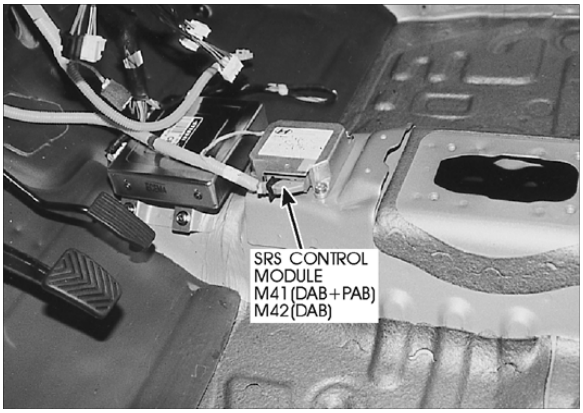


M35

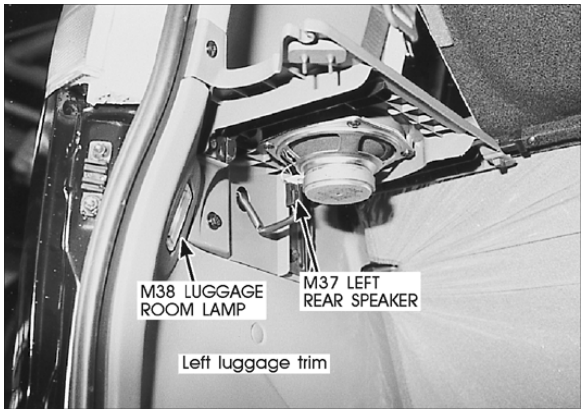
MAIN HARNESS (4)



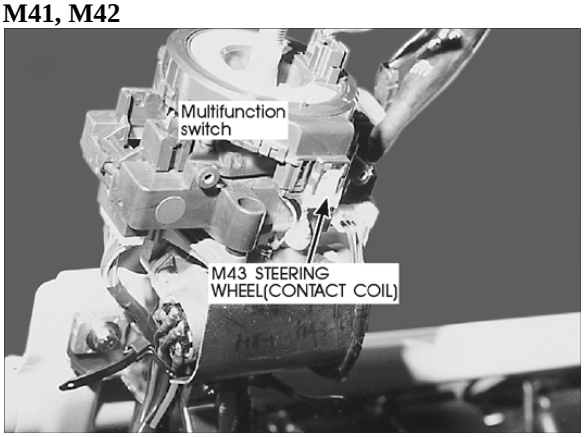
M36



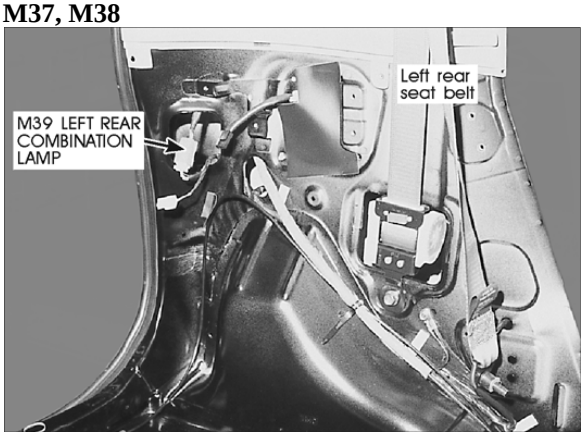
M41, M42



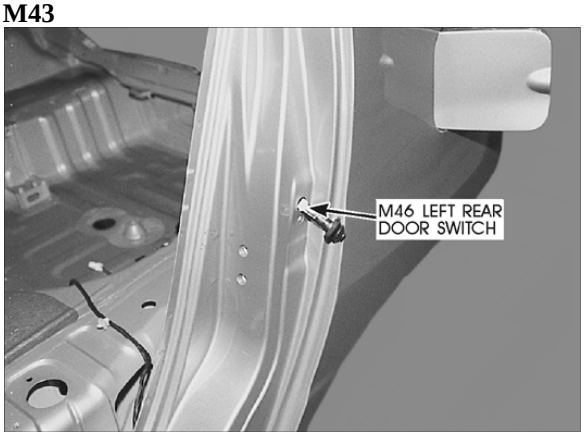
M37, M38



M43

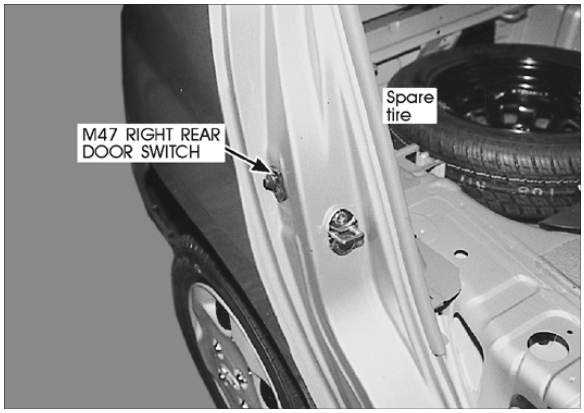


M39



M46

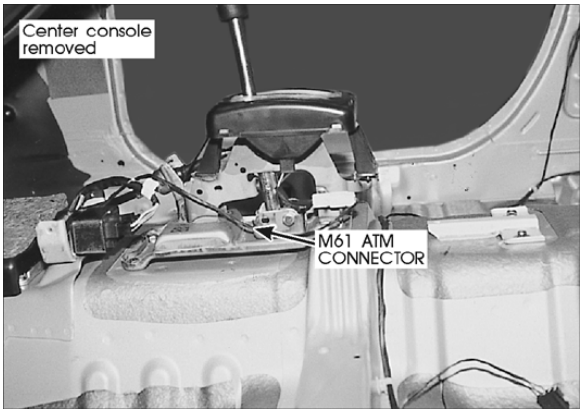
MAIN HARNESS (5)



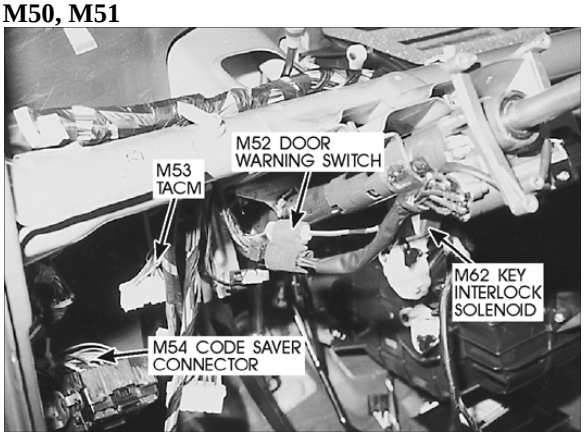
M47

M60

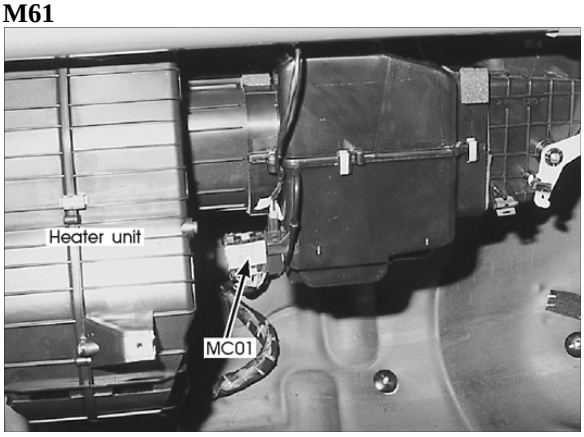
M50, M51



M61

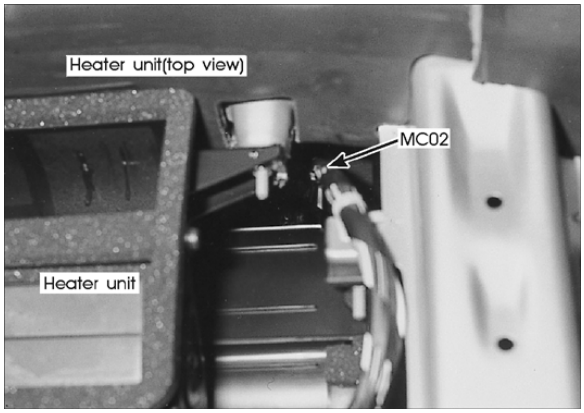


M62

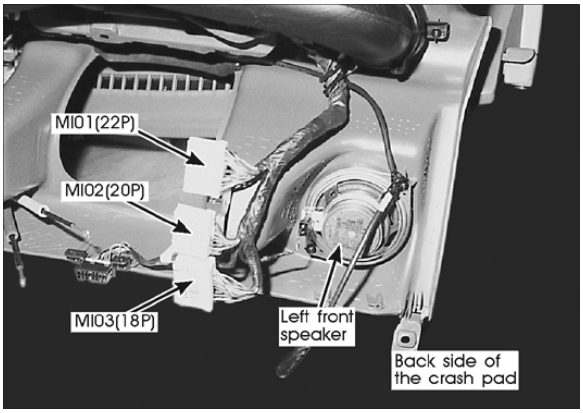


MC01

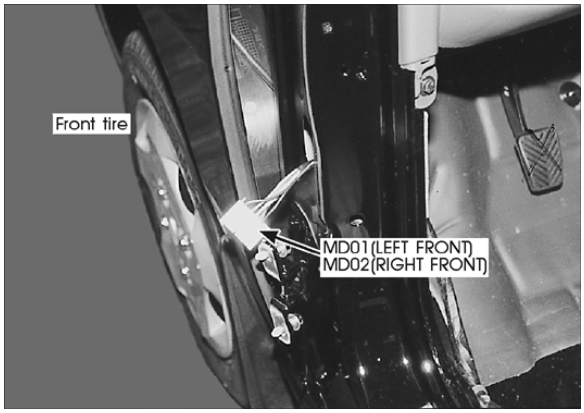
MAIN HARNESS (6)



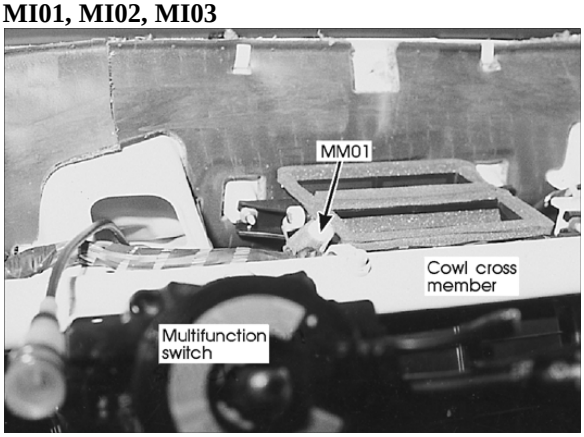
MC02



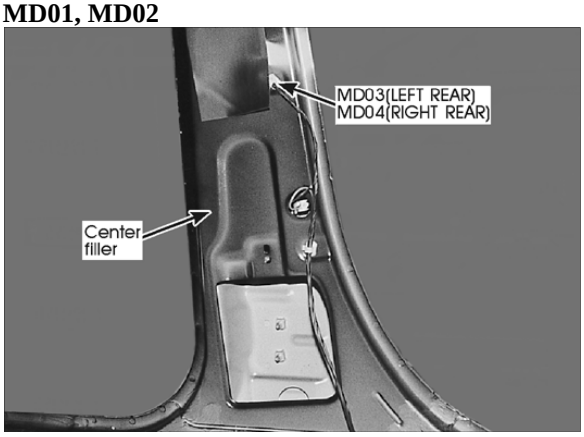
MI01, MI02, MI03



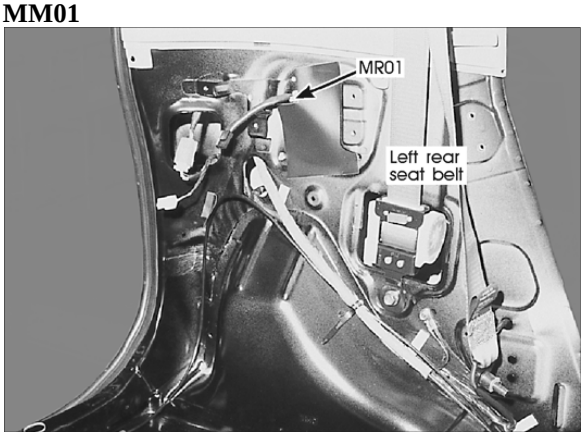
MD01, MD02



MM01

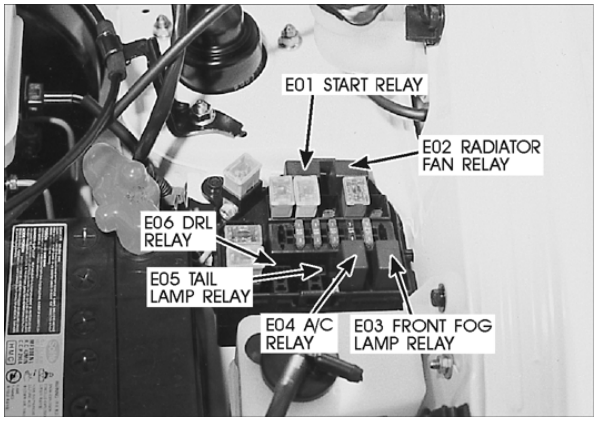


MD03, MD04

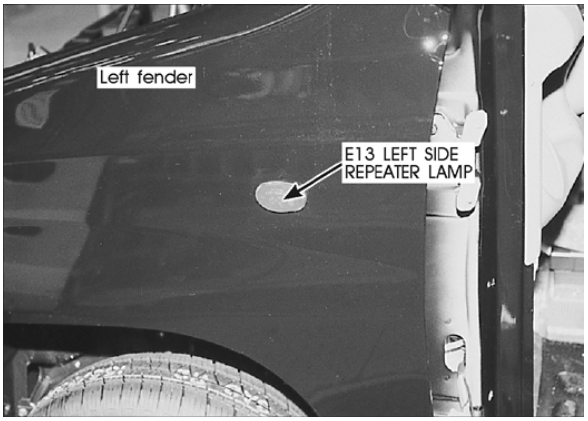


MR01

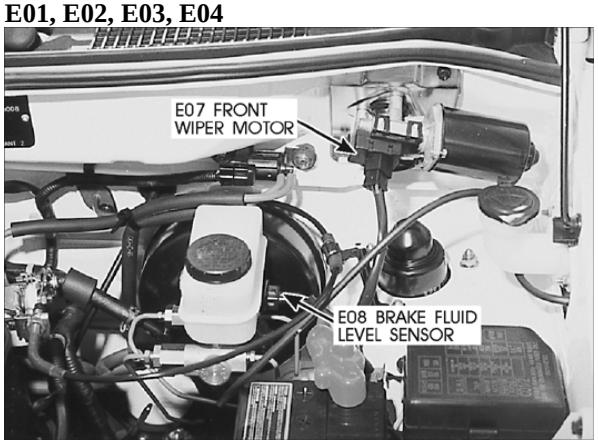
ENGINE HARNESS (1)



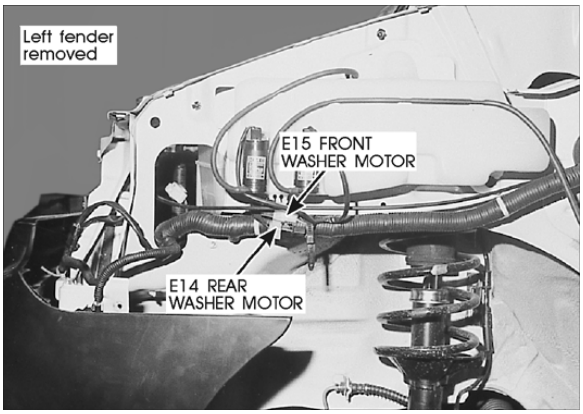
E01, E02, E03, E04



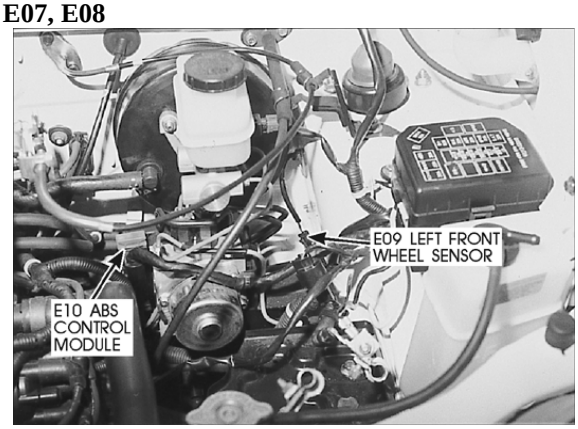
E13



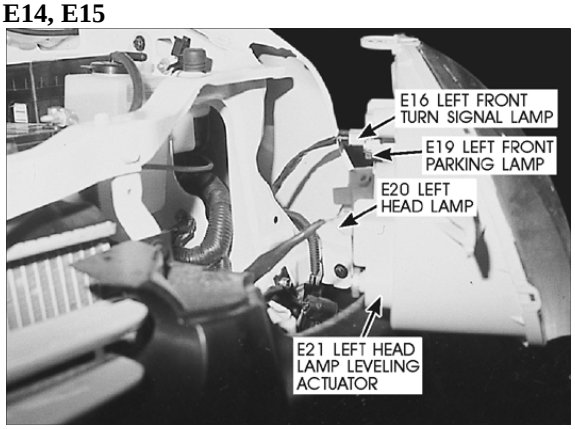
E07, E08



E14, E15

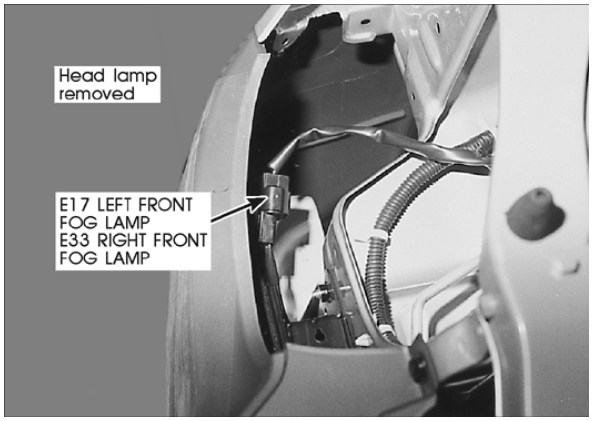


E09, E10

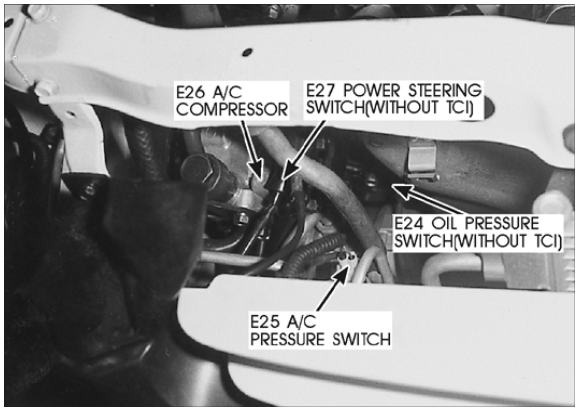


E16, E19, E20, E21

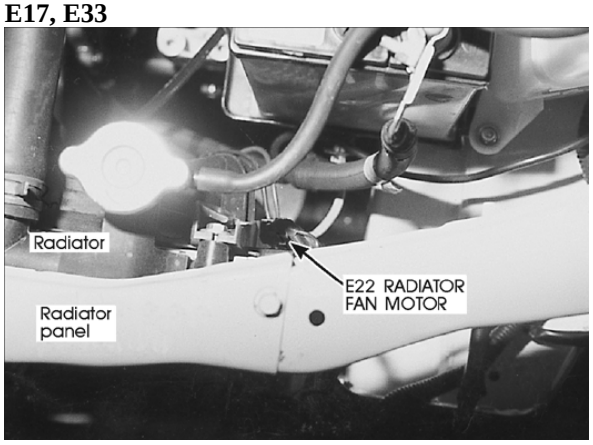
ENGINE HARNESS (2)



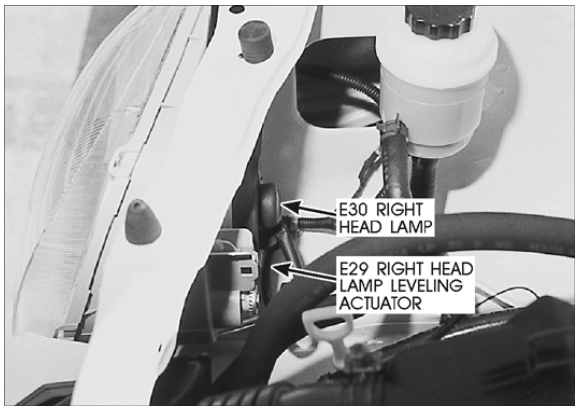
E17, E33



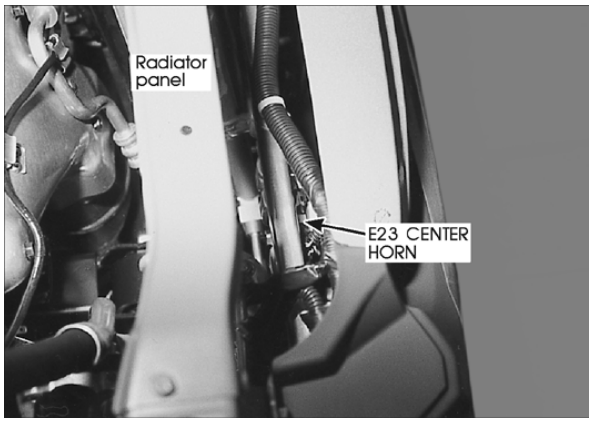
E24, E25, E26, E27



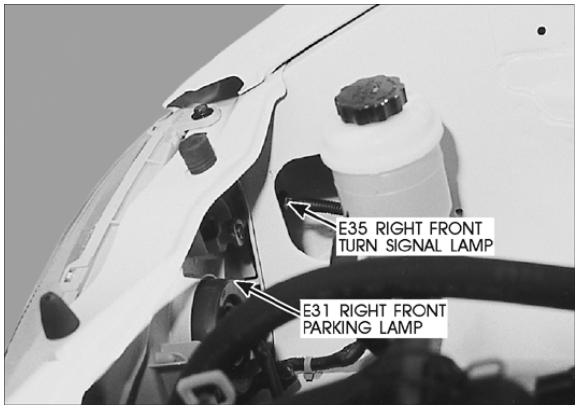
E22



E29, E30



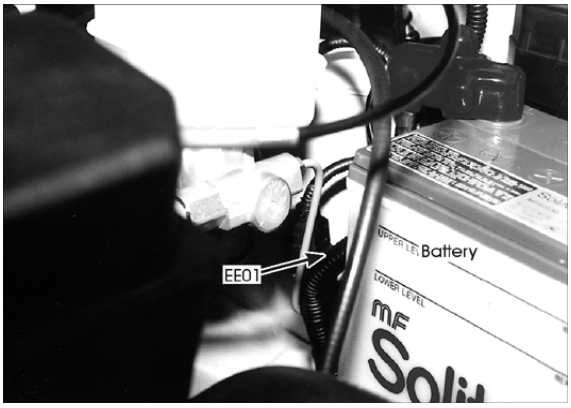
E23



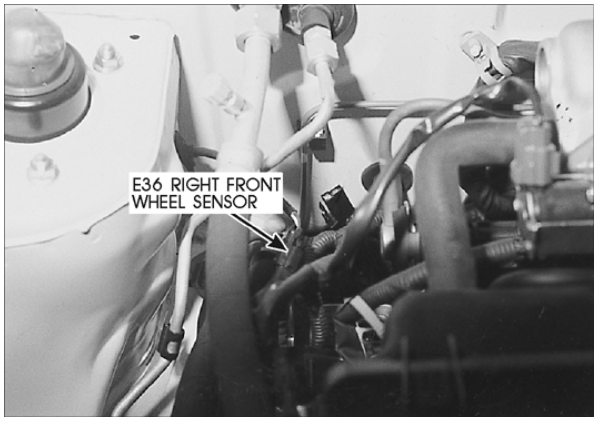
E31, E35

ENGINE HARNESS (3)

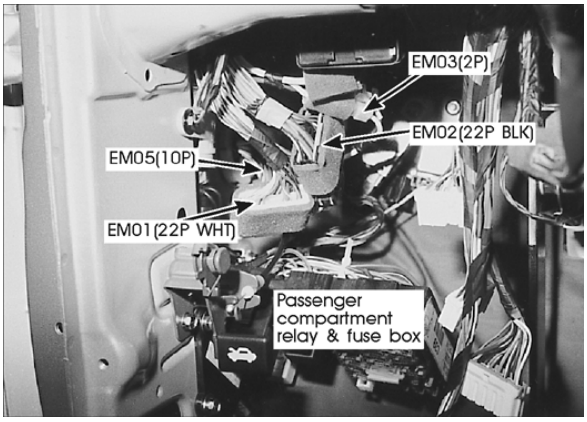
E34



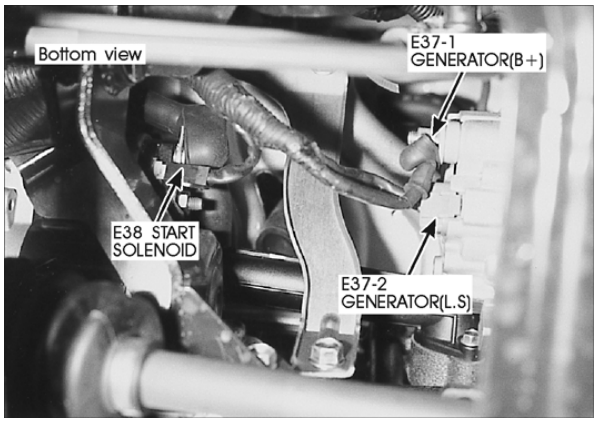
EE01



E36

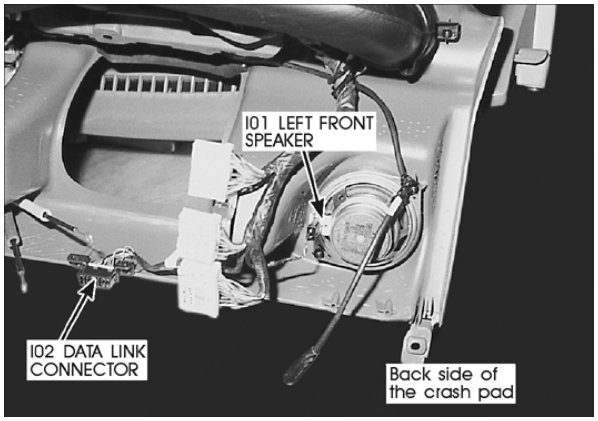


EM01, EM02, EM03, EM05

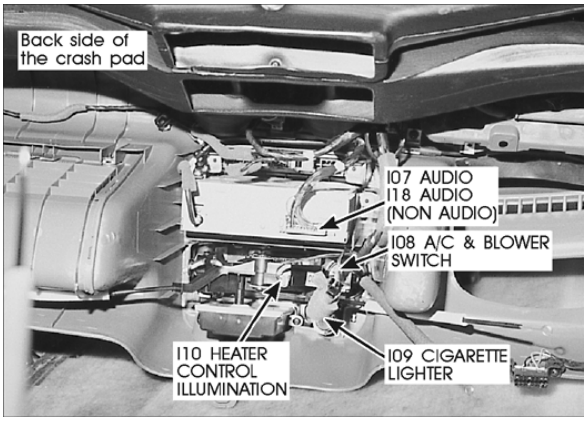


E37–1, E37–2, E38

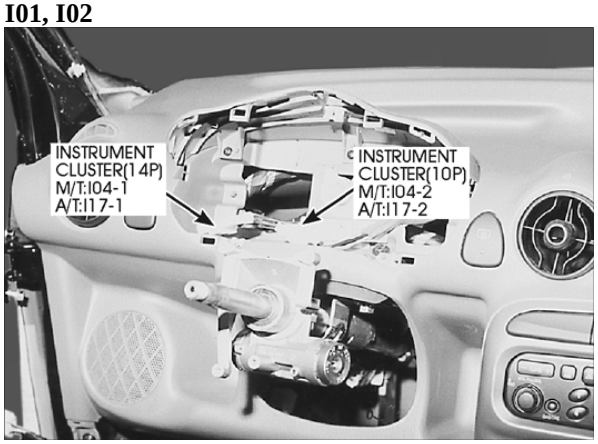
INSTRUMENT HARNESS (1)



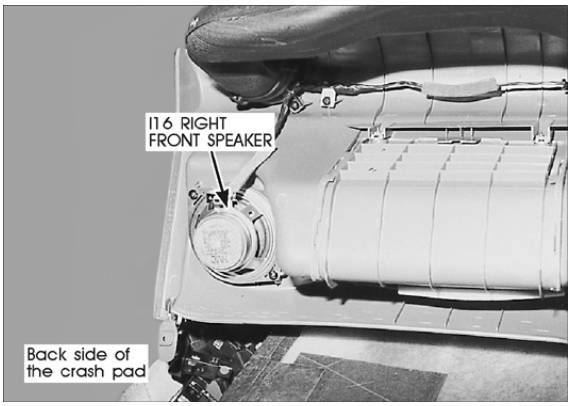
I01, I02



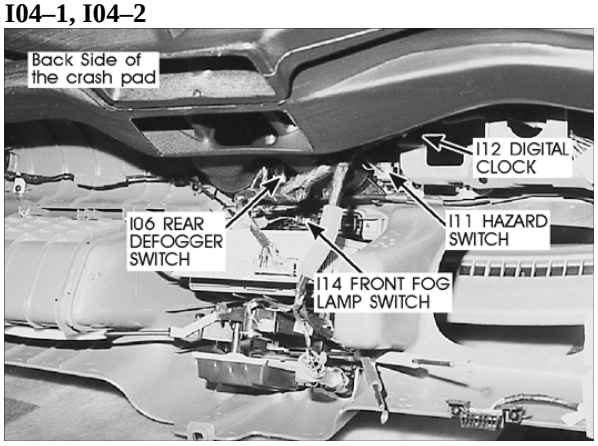
I07, I08, I09, I10



I04–1, I04–2

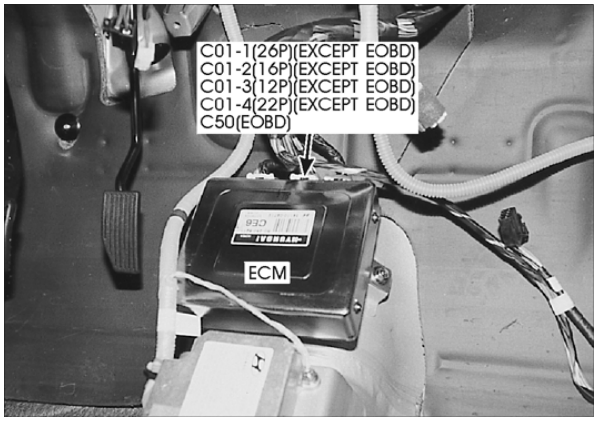


I16

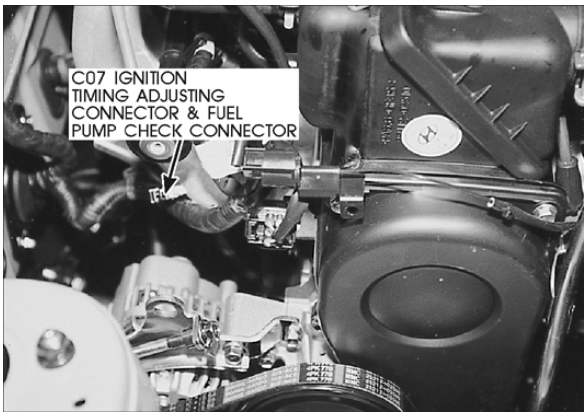


I06, I11, I12, I14

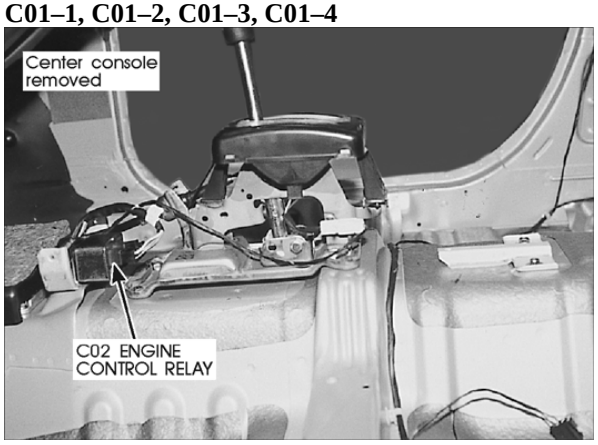
CONTROL HARNESS (1)



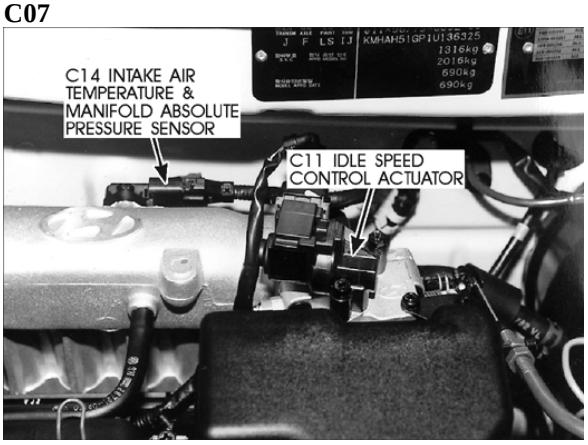
C01–1, C01–2, C01–3, C01–4



C07



C02

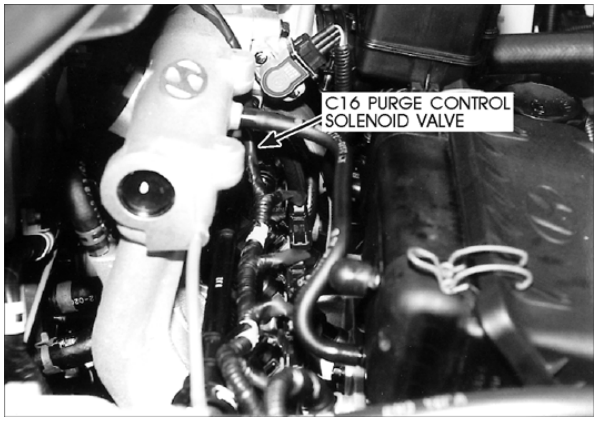


C11, C14

C05–1, C05–2

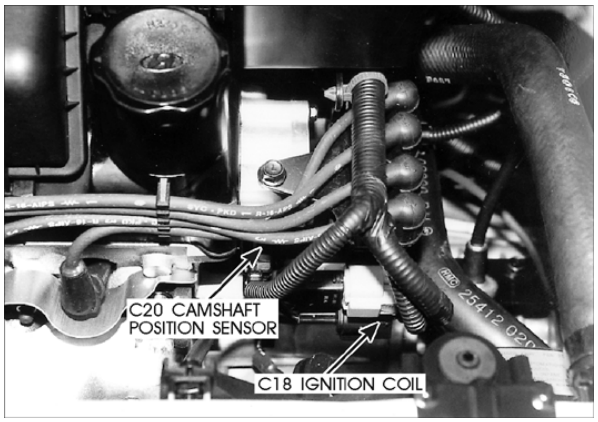
C12

CONTROL HARNESS (2)



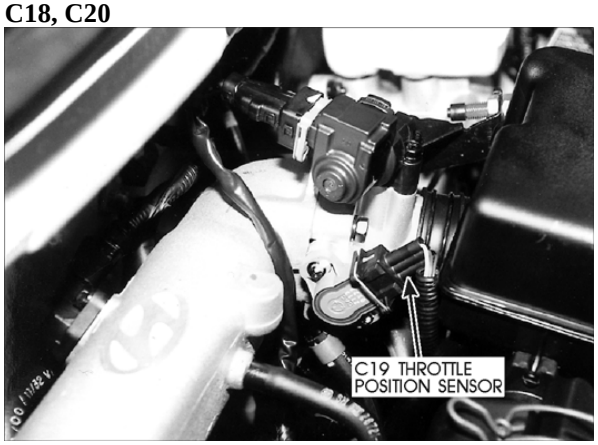
C16

C21

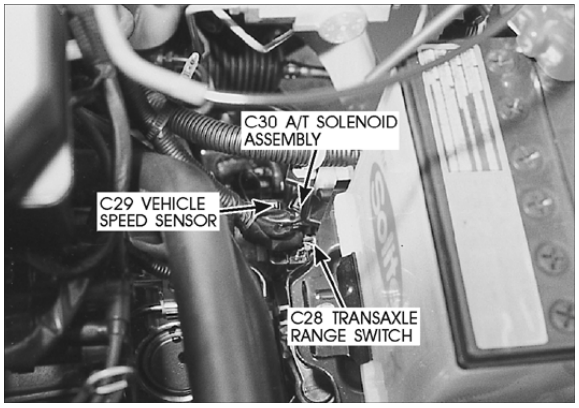


C18, C20

C23

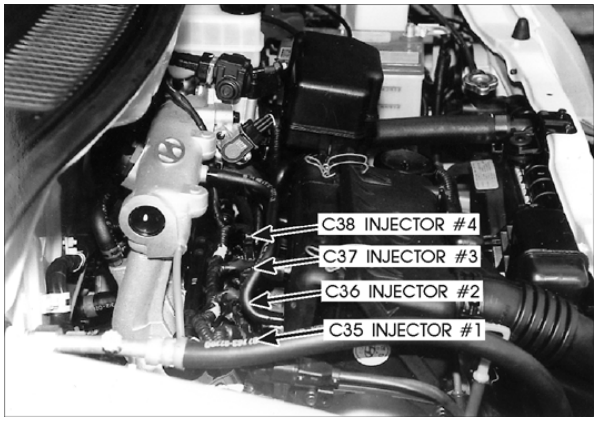


C19



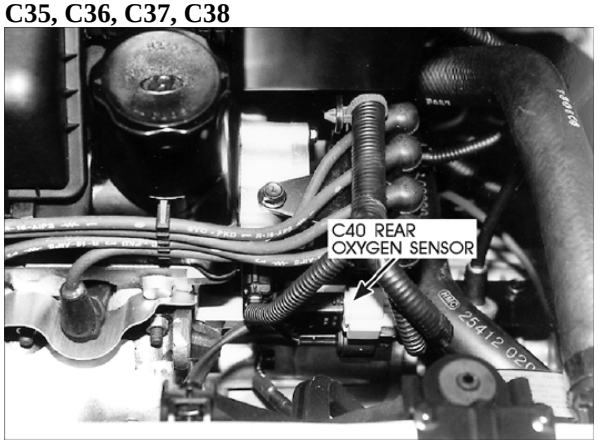
C28, C29, C30

CONTROL HARNESS (3)

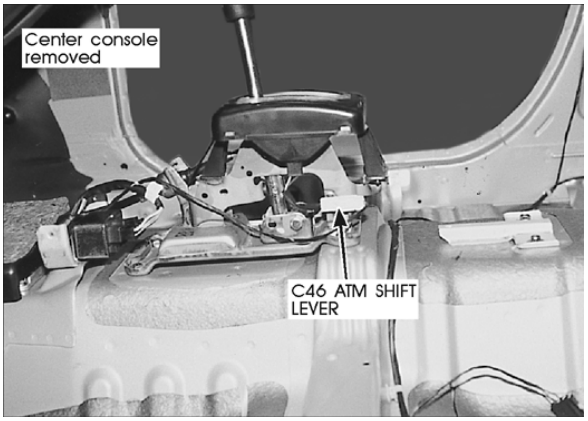


C35, C36, C37, C38

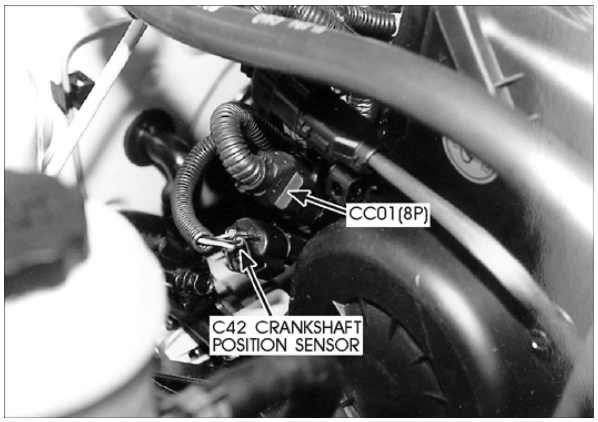
C43



C40

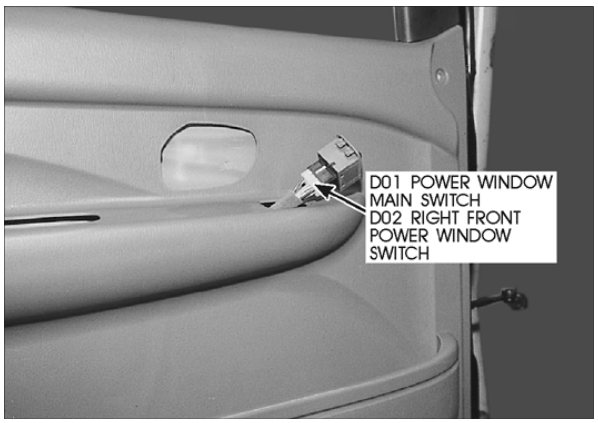


C46

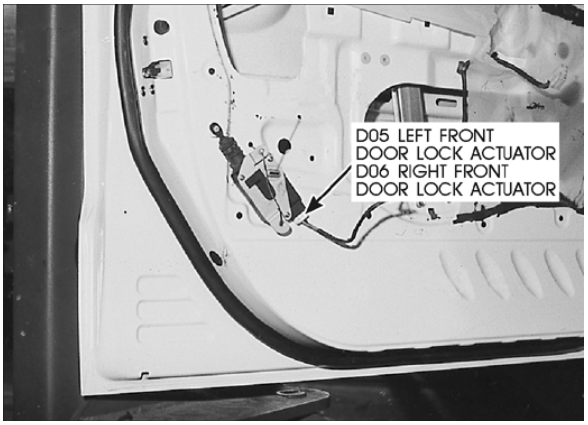


C42, CC01

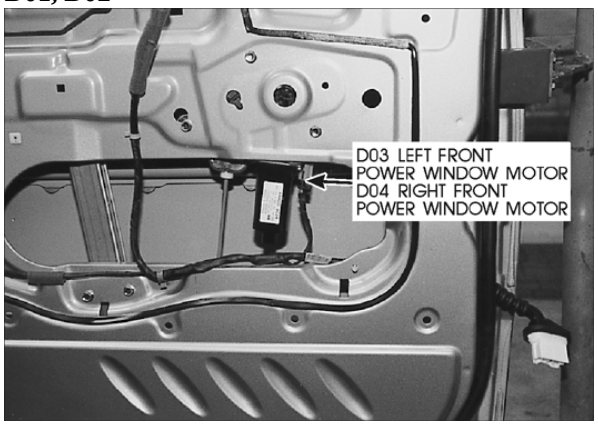
DOOR HARNESS (1)



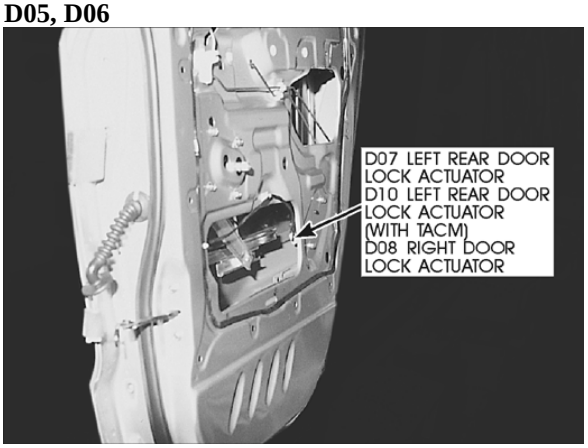
D01, D02



D05, D06

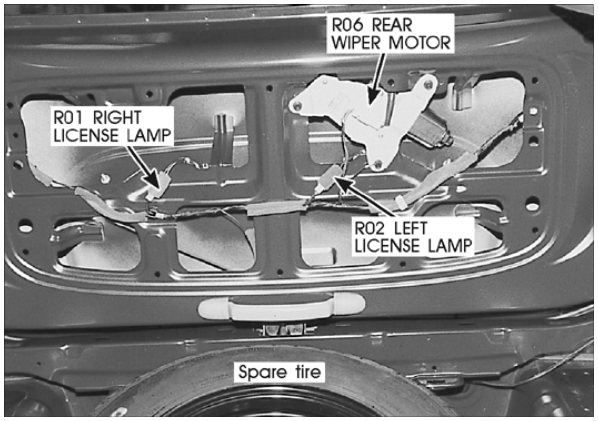


D03, D04



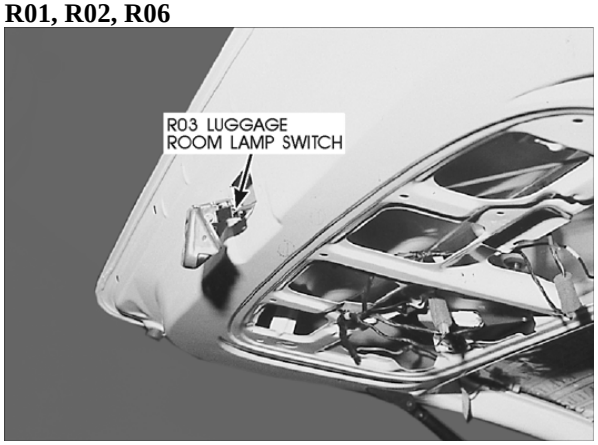
D07, D08, D10

REAR HARNESS(TAIL GATE) (1)

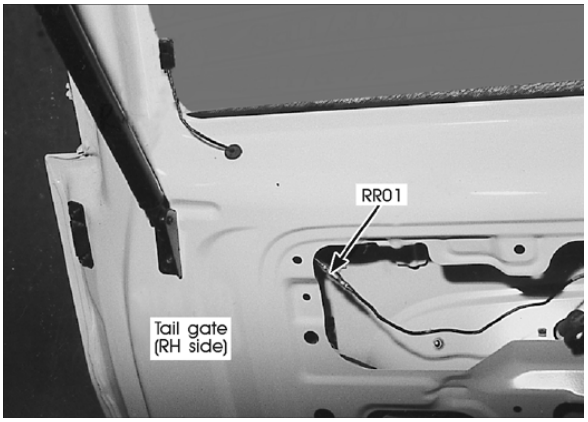


R01, R02, R06

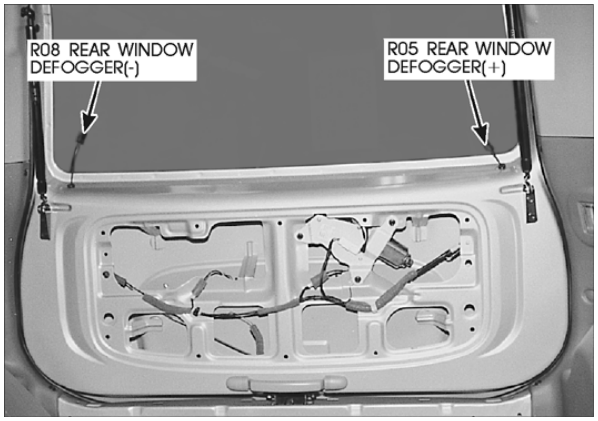
R07



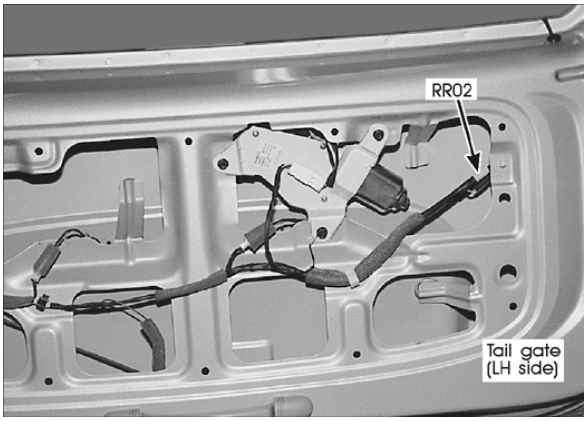
R03



RR01

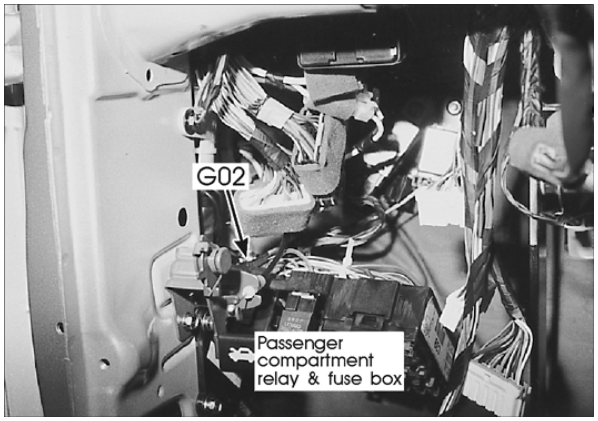


R05, R08

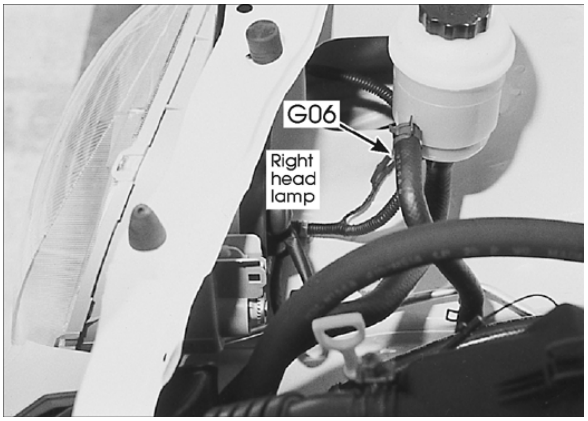


RR02

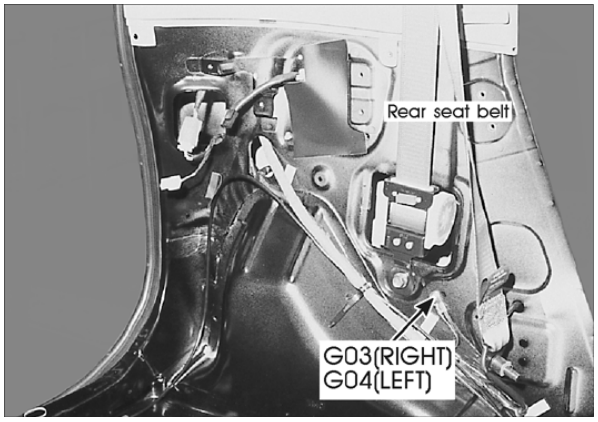
GROUND (1)



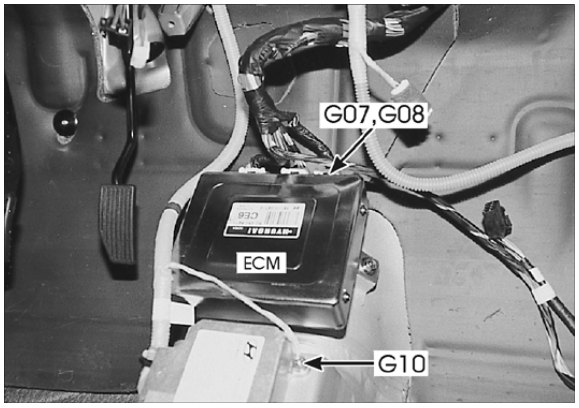
G01



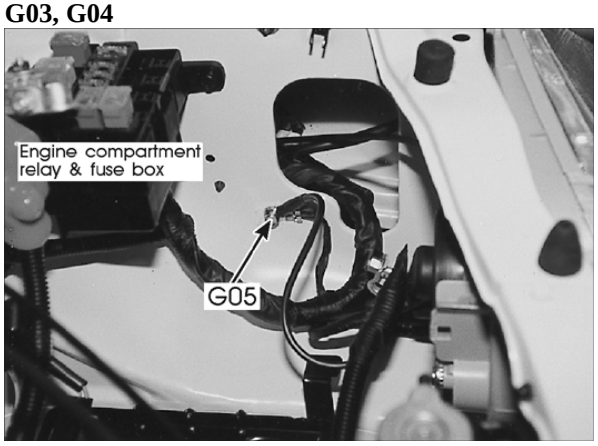
G06



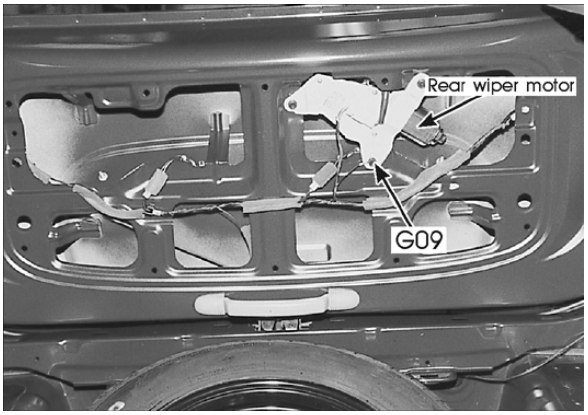
G03, G04



G07, G08, G10



G05

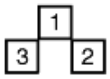
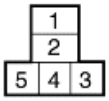
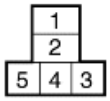
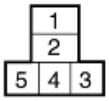
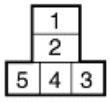
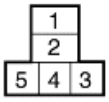
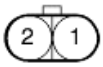
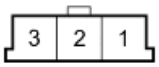
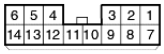
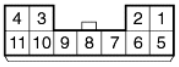
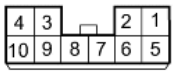
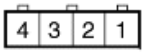
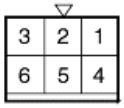
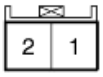
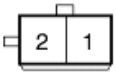
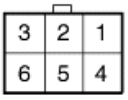
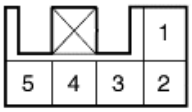


G09

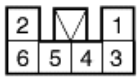
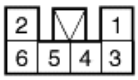
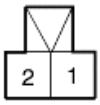
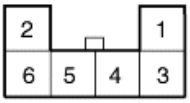
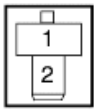
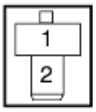
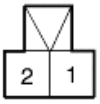
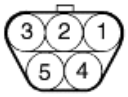
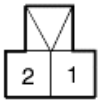
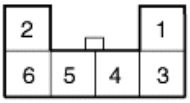
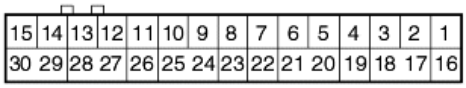
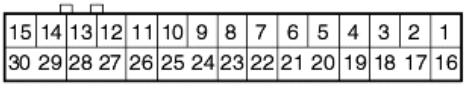
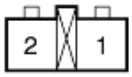
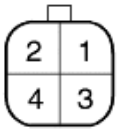
13.4 Connector Configurations

MAIN HARNESS E41C0010

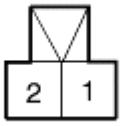
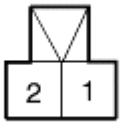
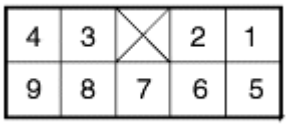
MAIN HARNESS (1)

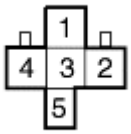
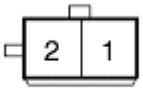
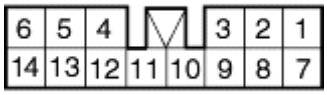
M01	M02	M03	M04
			
M05	**M06**	**M07**	**M08**
			
M09	**M10**	**M11–1**	**M11–2**
			
M11–3	**M11–4**	**M12**	**M13**
			
M14	**M15**	**M16**	**BLANK**
			
M18	**M19**	**M20**	**M21**
			

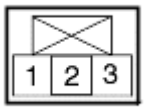
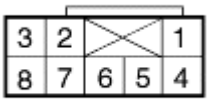
MAIN HARNESS (2)

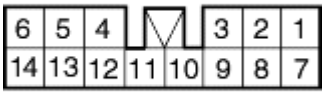
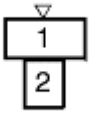
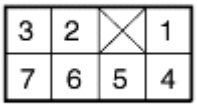
M23	M24	M25	M26
			
M27	**M28**	**M29**	**M30**
			
M31	**BLANK**	**M33**	**M34**
			
M35	**M36**	**M37**	**M38**
			
M39	**BLANK**	**M41**	
			
M42		**M43**	**M44**
			

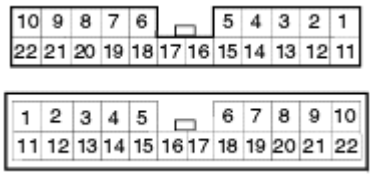
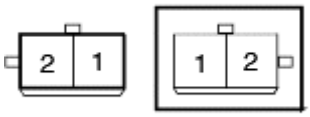
MAIN HARNESS (3)

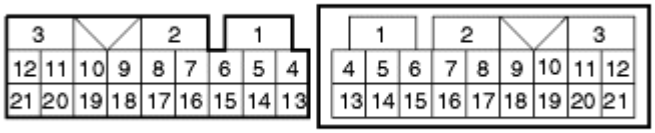
M46	M47		M50
		BLANK	

M51	M52	M53
		

M54		M60
	BLANK	

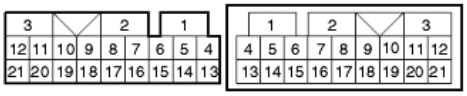
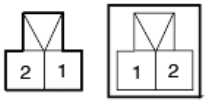
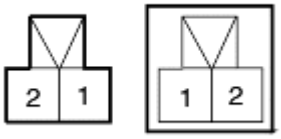
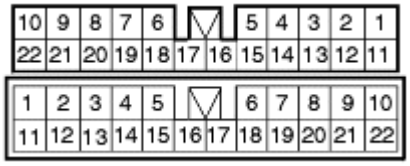
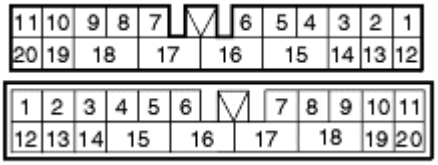
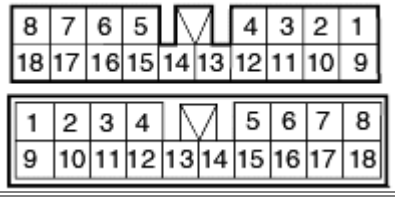
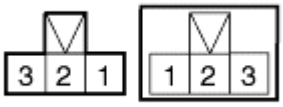
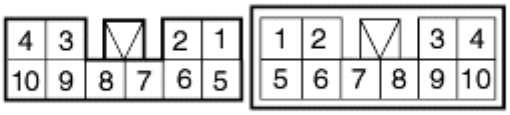
M61	M62	M64
		

MC01	MC02	
		BLANK

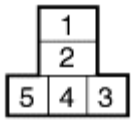
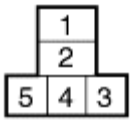
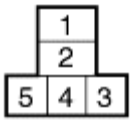
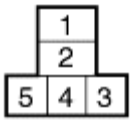
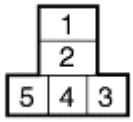
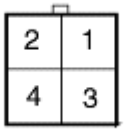
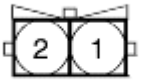
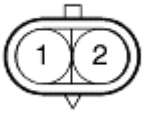
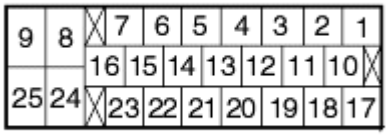
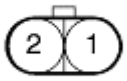
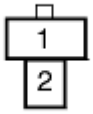
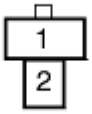
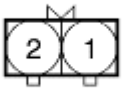
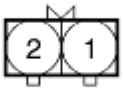
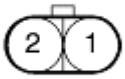
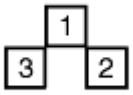
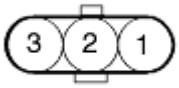
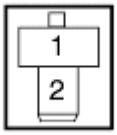
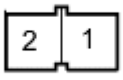
MD01	
	BLANK

MAIN HARNESS (4)

MD02	MD03

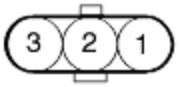
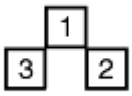
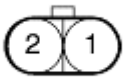
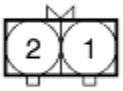
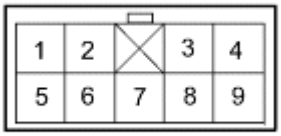
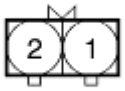
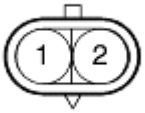
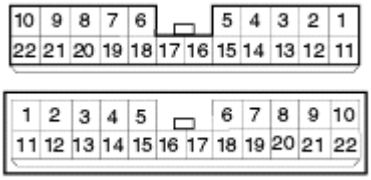
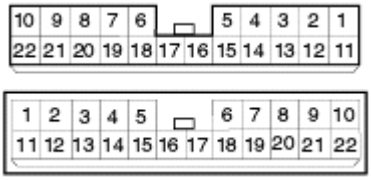
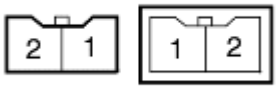
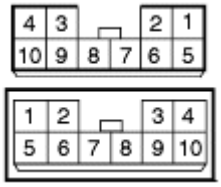
<table>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>MD04</td><td rowspan="2">BLANK</td><td>MI01</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>MI02</td><td>MI03</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>MM01</td><td>MR01</td></tr>
<tr><td> 
</td><td> 
</td></tr>
</table>

ENGINE HARNESS (1)

E01	E02	E03	E04
			
E05	**BLANK**	**E07**	**E08**
			
E09	**E10**		**BLANK**
			
E13	**E14**	**E15**	**E16**
			
E17	**BLANK**	**E19**	**E20**
			
E21	**E22**	**E23**	**E24**
			

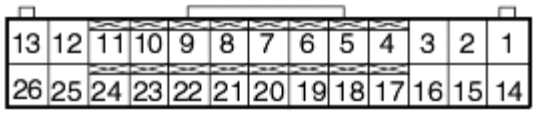
ENGINE HARNESS (2)

E25	E26	E27	E29

			
E30	**E31**	**BLANK**	**E33**
			
E34	**E35**	**E36**	**E37–1**
			
E37–2	**E38**	**E01**	
		 	
EM01		**EM02**	
			
EM03	**BLANK**	**EM05**	
			

CONTROL HARNESS (1)

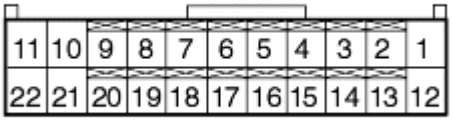
C01–1



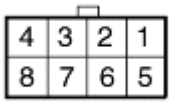
C01–2

C01–3

C01–4

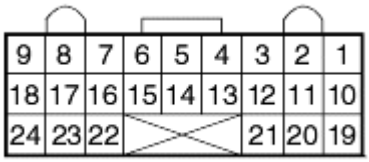


C02

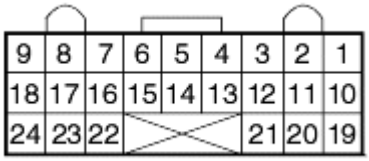


BLANK

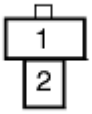
C05–1



C05–2

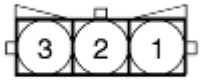


C07

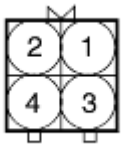


BLANK

C11

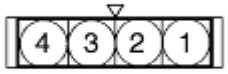


C12

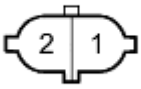


BLANK

C14

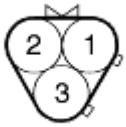


C16

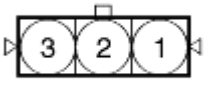


BLANK

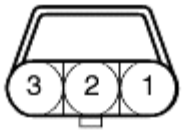
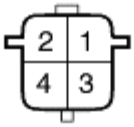
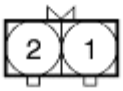
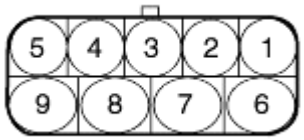
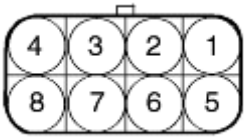
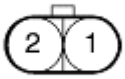
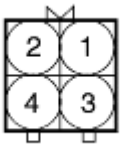
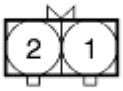
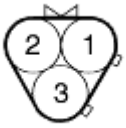
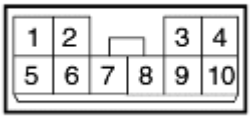
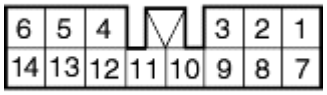
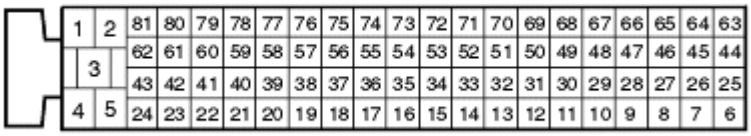
C18

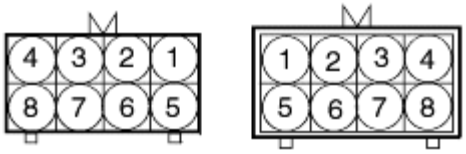
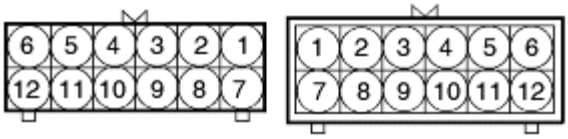
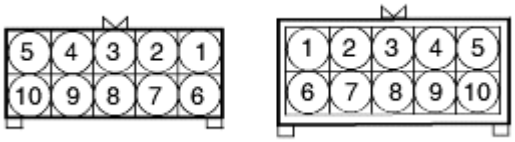


C19

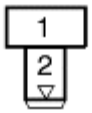
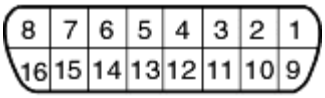
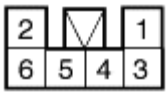
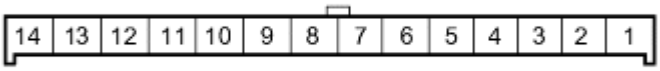
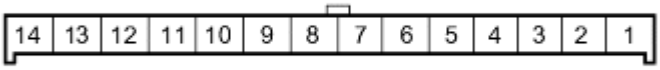
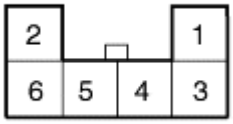
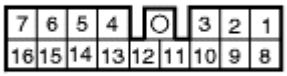
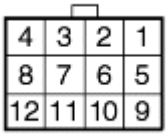
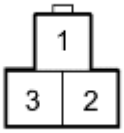
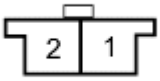
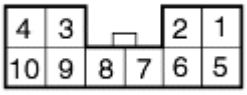
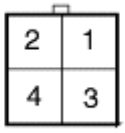
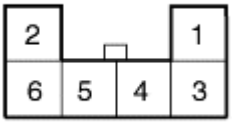
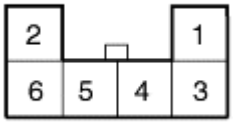
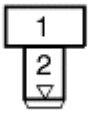


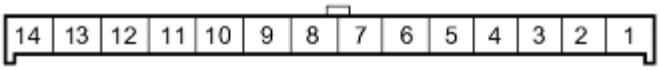
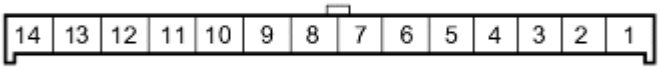
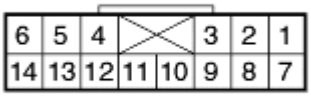
CONTROL HARNESS (2)

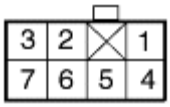
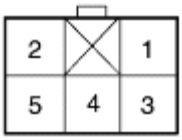
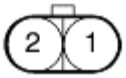
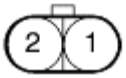
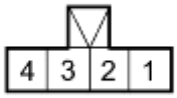
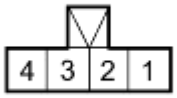
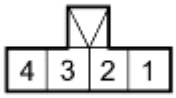
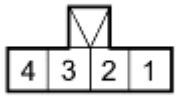
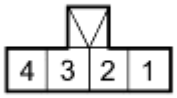
C20	C21	C23	
			**BLANK**
C28	**C29**	**C30**	**C32**
			
BLANK	**C35**	**C36**	**C37**
			
C38	**C40**	**C41**	**C42**
			
C43	**C44**	**C45**	**C46**
			
C50			
			

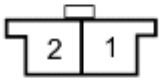
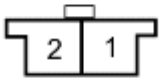
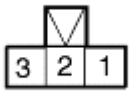
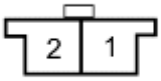
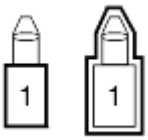
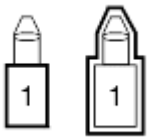
CONTROL HARNESS (3)		
CC01	**CC02**	
		
CC03	**BLANK**	**BLANK**
		

INSTRUMENT HARNESS (1)

I01	I02	I03	
			**BLANK**
I04–1			**BLANK**
			
I04–2			**I06**
			
I07		**I08**	**I09**
			
I10	**I11**	**I12**	
			**BLANK**
I14	**I15**	**I16**	
			**BLANK**

INSTRUMENT HARNESS (2)	
I17–1	**BLANK**
	
I17–2	**I18**
	

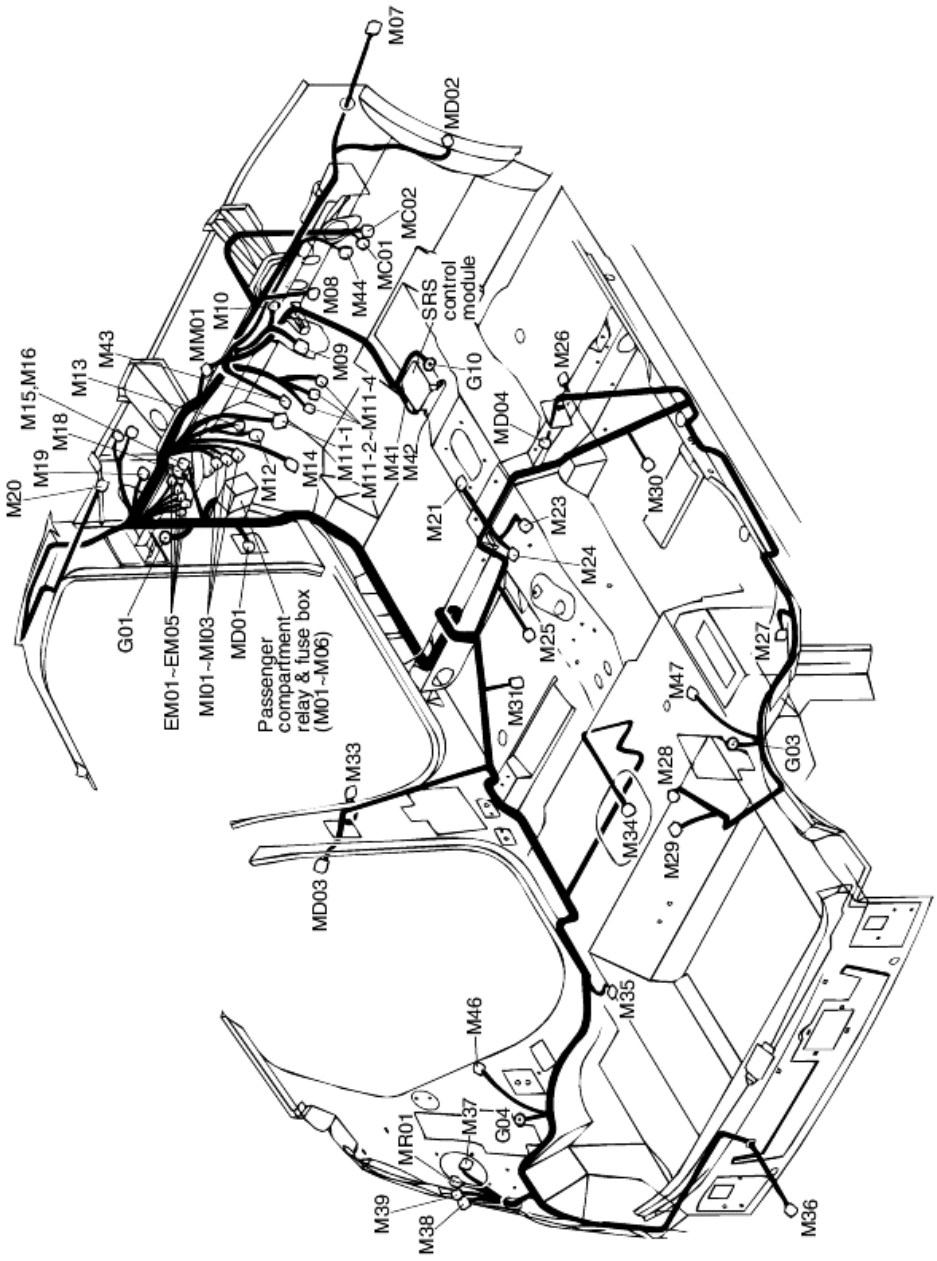
DOOR HARNESS (1)			
D01	**D02**	**D03**	**D04**
			
D05	**D06**	**D07**	**D08**
			
BLANK	**D10** 	**BLANK**	**BLANK**

REAR HARNESS (1)			
R01	**R02**	**R03**	
			**BLANK**
R05	**R06**	**R07**	**R08**
			
RR01	**RR02**		
		**BLANK**	**BLANK**

13.5 Harness Layouts

MAIN HARNESS E51C0010

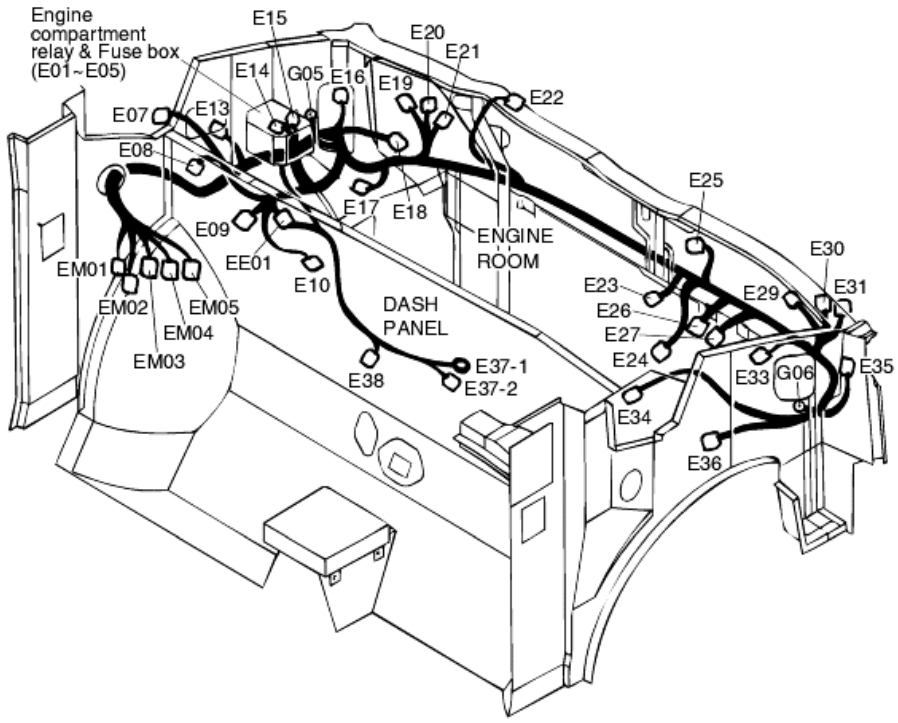
MAIN HARNESS (1)



M01	Flasher unit
M02	EBD relay
M03	Blower relay
M04	Rear defogger relay
M05	Horn relay
M06	ABS relay
M07	Right side repeater lamp
M08	Thermostatic switch
M09	Blower motor
M10	Blower resistor
M11–1	Multifunction switch
M11–2	Multifunction switch
M11–3	Multifunction switch
M11–4	Multifunction switch
M12	Ignition switch
M13	Antenna coil
M14	Stop lamp switch
M15	Acoustic warning buzzer
M16	Chime bell
M18	Intermittent wiper relay
M19	SMATRA
M20	Courtesy lamp
M21	Parking brake switch
M23	Right seat warmer switch
M24	Left seat warmer switch
M25	Seat belt switch
M26	Right front door switch
M27	Right rear wheel sensor
M28	Right rear speaker
M29	Right rear combination lamp
M30	Right seat warmer
M31	Left seat warmer
M33	Left front door switch
M34	Fuel sender & Fuel pump motor
M35	Left rear wheel sensor
M36	Rear fog lamp
M37	Left rear speaker
M38	Luggage room lamp
M39	Left rear combination lamp
M41	SRS control module (DAB+PAB)
M42	SRS control module (DAB)
M43	Steering wheel (Contact coil)
M44	Passenger air bag
M46	Left rear door switch
M47	Right rear door switch
M50	Door lock relay
M51	Hazard relay
M52	Door warning switch
M53	TACM
M54	Code saver connector
M60	ATM interlock control module
M61	ATM connector
M62	ATM key interlock solenoid
M64	Seat belt timer
EM01	Connection with ENGINE harness
EM02	Connection with ENGINE harness
EM03	Connection with ENGINE harness
EM05	Connection with ENGINE harness (ABS)
MC01	Connection with CONTROL harness (Immobilizer)
MC02	Connection with CONTROL harness (Immobilizer)
MD01	Connection with LH FRONT DOOR harness
MD02	Connection with RH FRONT DOOR harness
MD03	Connection with LH REAR DOOR harness
MD04	Connection with RH REAR DOOR harness
MI01	Connection with INSTRUMENT harness
MI02	Connection with INSTRUMENT harness
MI03	Connection with INSTRUMENT harness
MM01	Connection with AIR BAG harness
MR01	Connection with TAIL GATE harness
G01	Left front ground
G03	Right rear ground
G04	Left rear ground
G10	Air bag ground

ENGINE HARNESS E51C0020

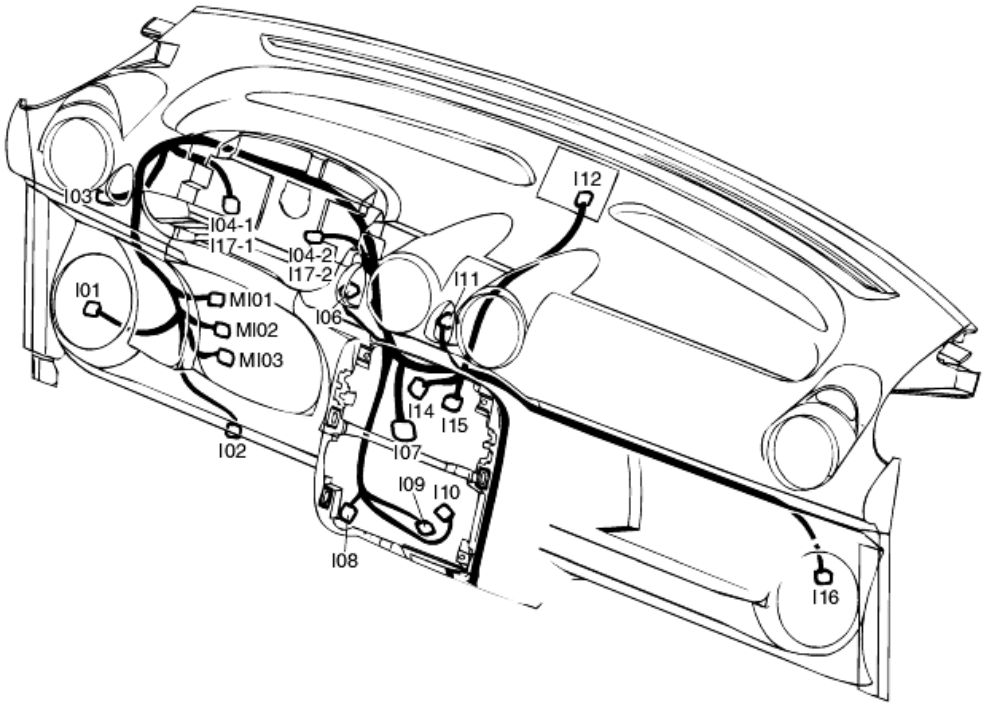
ENGINE HARNESS(1)



E01	Start relay	E26	A/C compressor
E02	Radiator fan relay	E27	Power steering switch (without TCI)
E03	Front fog lamp relay	E29	Right head lamp leveling actuator
E04	A/C relay	E30	Right head lamp
E05	Tail lamp relay	E31	Right front parking lamp
E07	Front wiper motor	E33	Right front fog lamp
E08	Brake fluid level sensor	E34	DRL control module
E09	Left front wheel sensor	E35	Right front turn signal lamp
E10	ABS control module	E36	Right front wheel sensor
E13	Left side repeater lamp	E37–1	Generator (B+)
E14	Rear washer motor	E37–2	Generator (L, S)
E15	Front washer motor	E38	Start solenoid
E16	Left front turn signal lamp	EE01	Connection with BATTERY EXT. harness
E17	Left front fog lamp	EM01	Connection with MAIN harness
E19	Left front parking lamp	EM02	Connection with MAIN harness
E20	Left head lamp	EM03	Connection with MAIN harness
E21	Left head lamp leveling actuator	EM05	Connection with MAIN harness (ABS)
E22	Radiator fan motor	G05	Left ground
E23	Horn	G06	Right ground
E24	Oil pressure switch (without TCI)	Z04	Diode
E25	A/C pressure switch		

INSTRUMENT HARNESS E51B0030

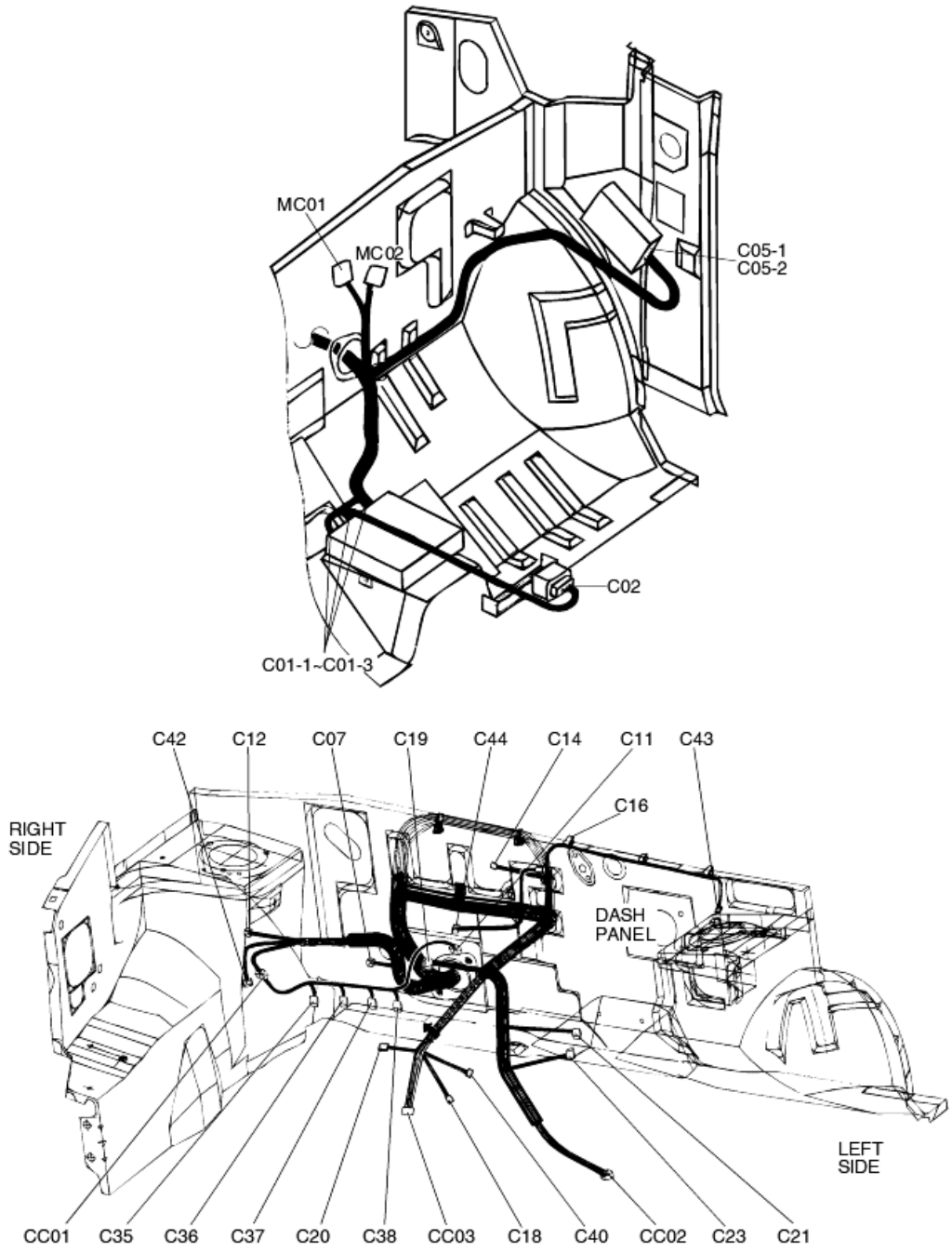
INSTRUMENT HARNESS (1)



I01	Left front speaker	I12	Digital clock
I02	Data link connector	I14	Front fog lamp switch
I03	Head lamp leveling switch	I15	Rear fog lamp switch
I04–1	Instrument cluster (M/T)	I16	Right front speaker
I04–2	Instrument cluster (M/T)	I17–1	Instrument cluster (A/T)
I06	Rear defogger switch	I17–2	Instrument cluster (A/T)
I07	Audio	I18	Audio (Non audio)
I08	A/C & Blower switch	MI01	Connection with MAIN harness
I09	Cigarette lighter	MI02	Connection with MAIN harness
I10	Heater control illumination	MI03	Connection with MAIN harness
I11	Hazard switch		

CONTROL HARNESS E51C0040

CONTROL HARNESS (1)

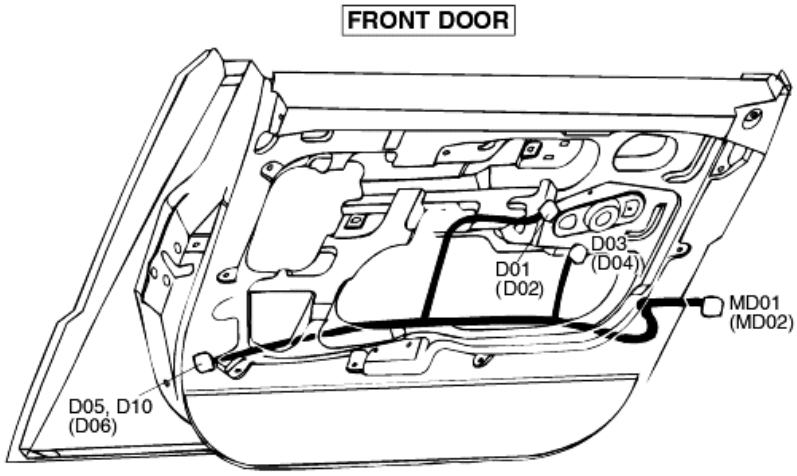


C01–1	Engine Control Module (Except EOBD)	C30	ATM solenoid assembly (A/T)
C01–2	Engine Control Module (Except EOBD)	C32	Turbine RPM sensor
C01–3	Engine Control Module (Except EOBD)	C35	Injector #1
C01–4	Engine Control Module (Except EOBD)	C36	Injector #2
C02	Engine Control relay	C37	Injector #3
C05–1	Transaxle control module (TCM)	C38	Injector #4
C05–2	Transaxle control module (TCM)	C40	Rear oxygen sensor (EOBD)
C07	Ignition timing adjusting connector &	C41	Oil pressure switch &

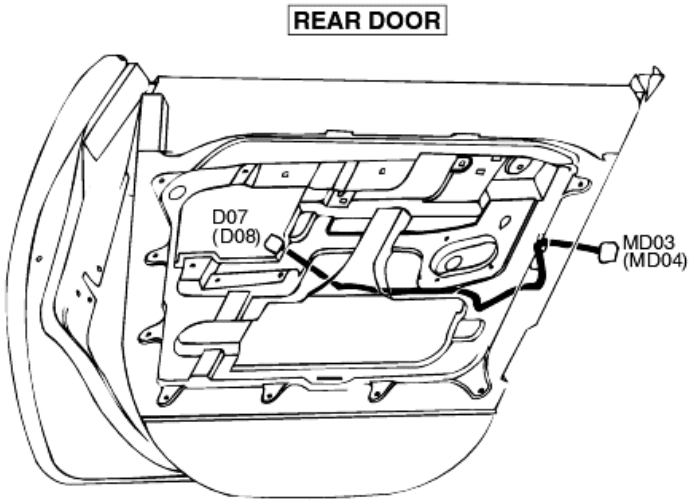
	Fuel pump check connector (Except EOBD)
C11	Idle speed control actuator
C12	Front oxygen sensor
C14	Intake air temperature & Manifold absolute pressure sensor
C16	Purge control solenoid valve
C18	Ignition coil
C19	Throttle position sensor
C20	Camshaft position sensor
C21	Engine coolant temperature sensor & sender
C23	Back-up lamp switch (M/T)
C28	Transaxle range switch (A/T)
C29	Vehicle speed sensor (A/T)
	P ower steering switch (TCI)
C42	Crankshaft position sensor
C43	Accel sensor (EOBD)
C44	Knock sensor (TCI)
C45	Multipurpose check connector
C46	ATM shift lever
C50	Engine Control Module (EOBD)
CC01	Connection with INJECTOR EXT. harness
CC02	Connection with ATM harness
CC03	Connection with ATM harness
MC01	Connection with MAIN harness
MC02	Connection with MAIN harness (Immobilizer)
G07	Ground
G08	Ground

DOOR HARNESS E51B0050

DOOR HARNESS (1)



( ) : RIGHT

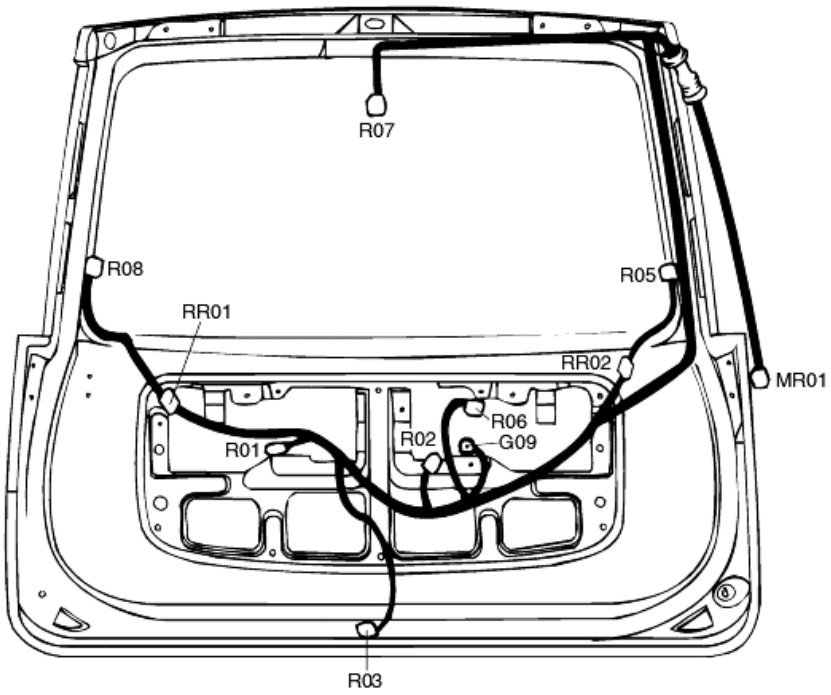


( ) : RIGHT

D01	Power window main switch	D08	Right rear door lock actuator
D02	Right front power window switch	D10	Left front door lock actuator (with TACM)
D03	Left front power window motor	MD01	Connection with LH MAIN harness
D04	Right front power window motor	MD02	Connection with RH MAIN harness
D05	Left front door lock actuator (W/O TACM)	MD03	Connection with LH MAIN harness
D06	Right front door lock actuator	MD04	Connection with RH MAIN harness
D07	Left rear door lock actuator		

REAR HARNESS E51B0060

REAR HARNESS (TAIL GATE)



R01	Right license lamp	MR01	Connection with MAIN harness
R02	Left license lamp	RR01	Connection with REAR WINDOW DEFOGGER EXTENSION (-) harness
R03	Luggage room lamp switch	RR02	Connection with REAR WINDOW DEFOGGER EXTENSION (+) harness
R05	Rear window defogger (+)	G09	Tail gate ground
R06	Rear wiper motor		
R07	High mounted stop lamp		
R08	Rear window defogger (-)		