

**INTRODUCTION** E1GC3010

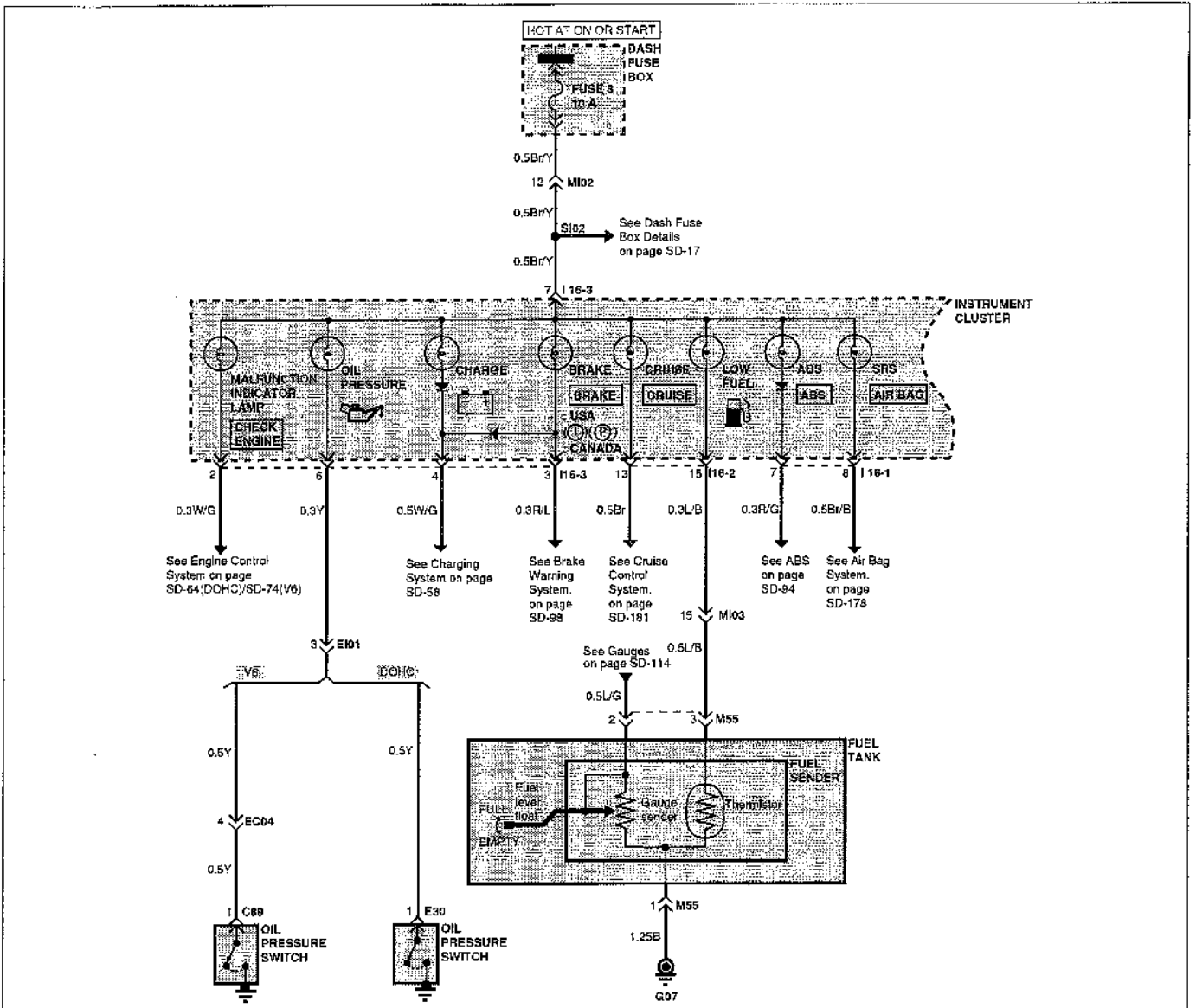
This Manual consists of five major diagnostic sections for electrical problem troubleshooting.

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

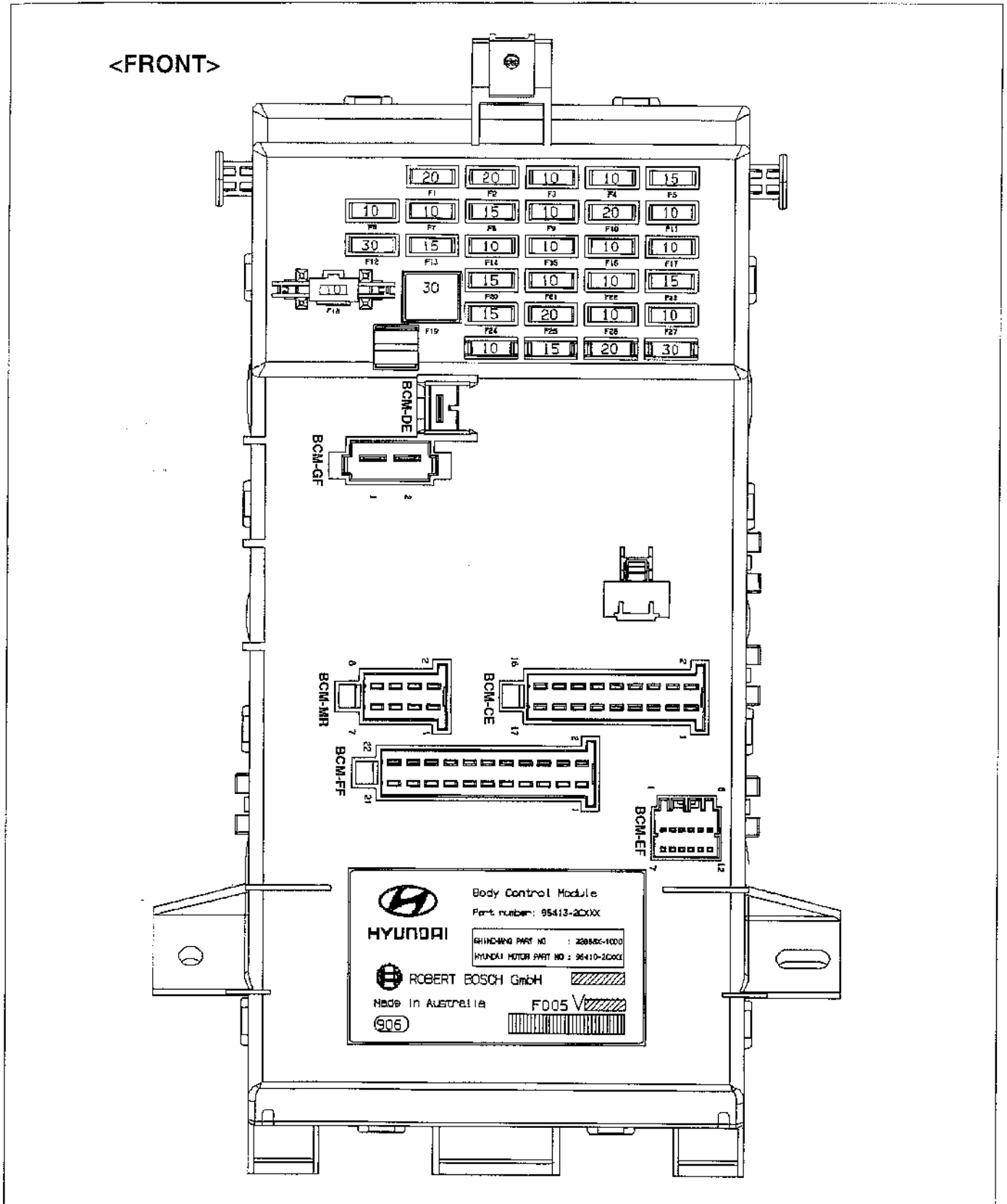
**SCHEMATIC DIAGRAM**

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.

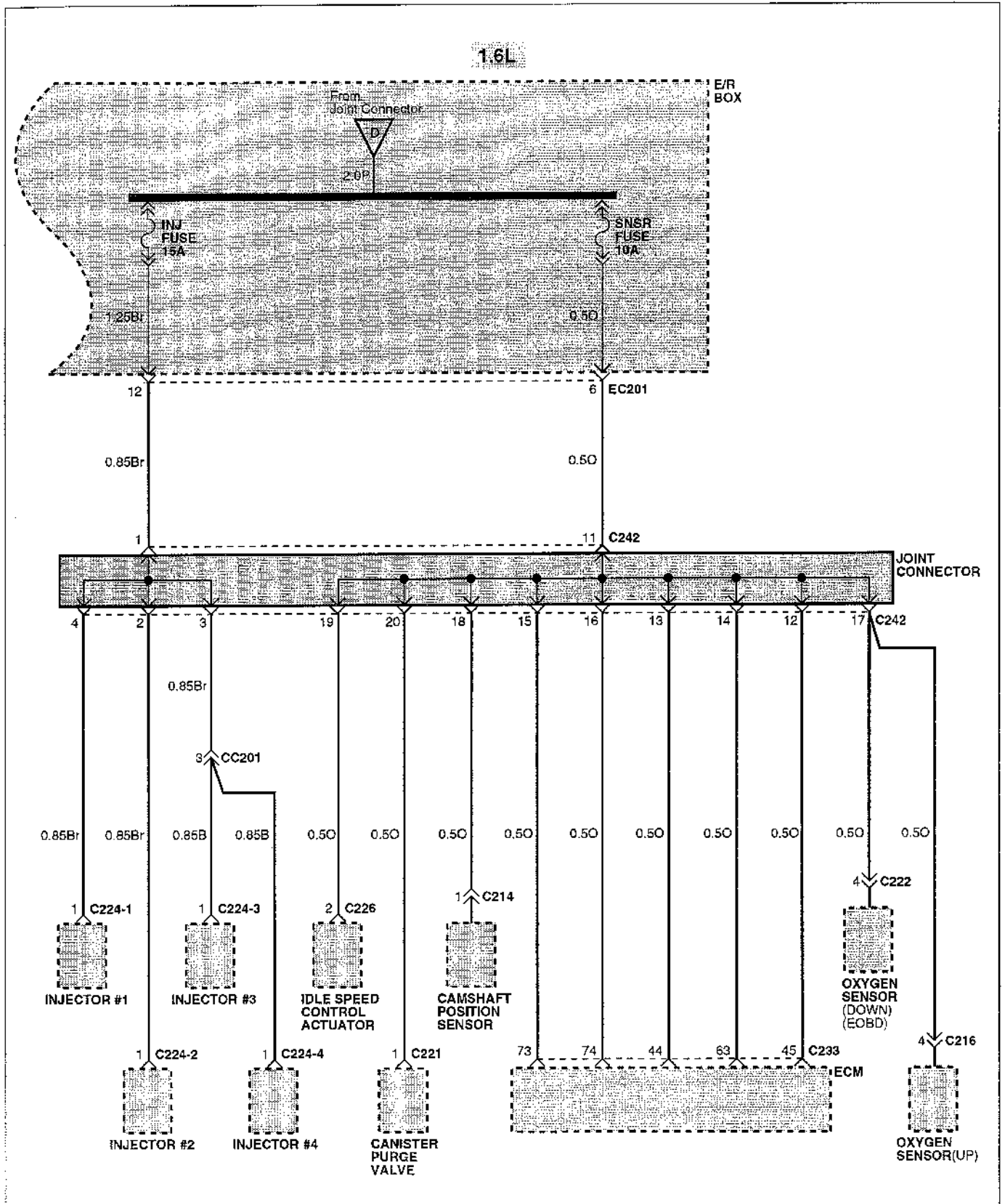
It is important to fully understand how a circuit works prior to troubleshooting and diagnosis.



BODY CONTROL MODULE (BCM BOX)



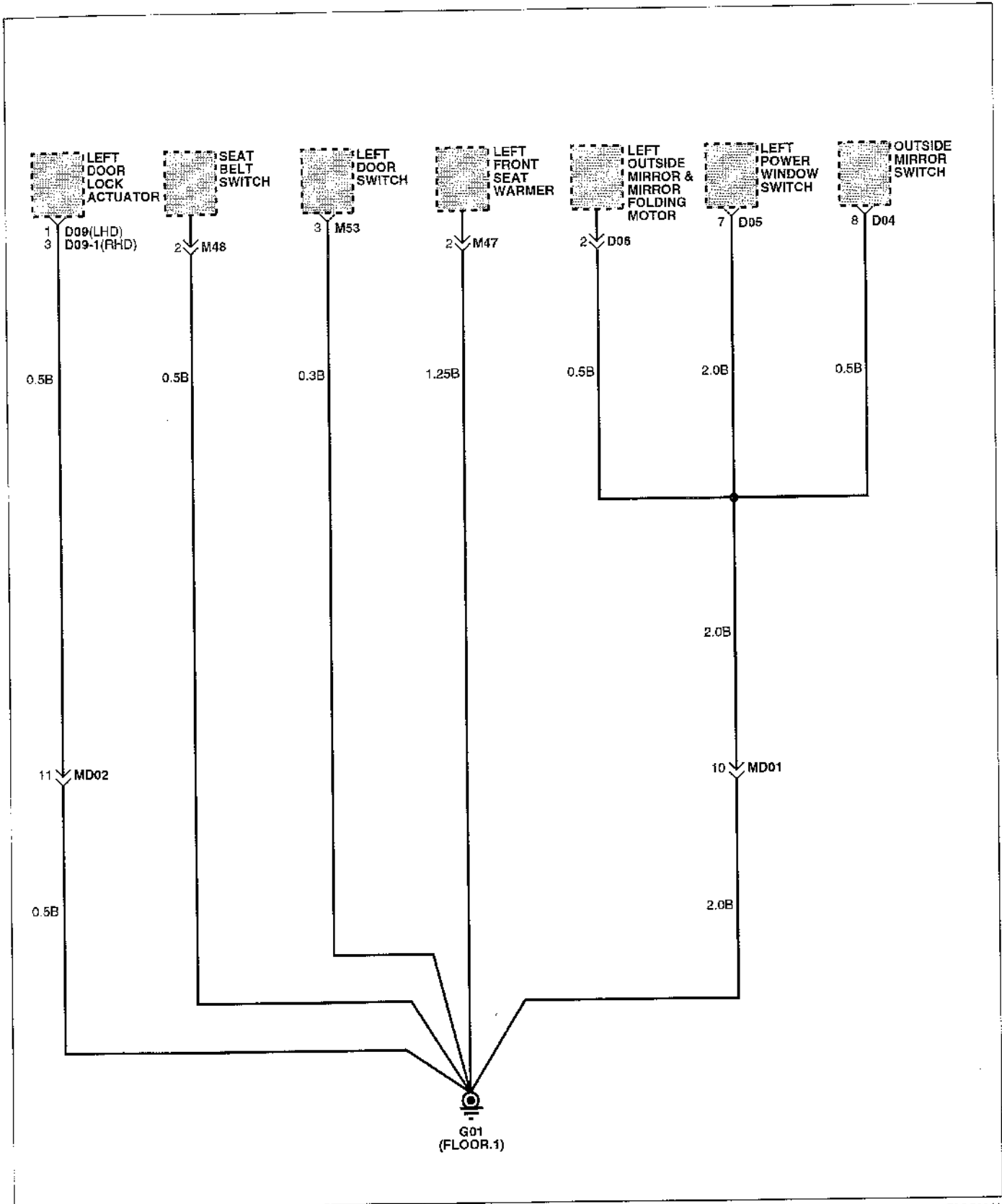
POWER DISTRIBUTION (7)



GROUND DISTRIBUTION

E2GC0040

GROUND DISTRIBUTION (1)



## COMPONENT LOCATION INDEX

Components	Location reference-page	
C01	Transaxle range switch (2.0L)	CL-18
C17	Starter clutch pedal position switch (2.0L)	CL-19
C41	Joint connector (2.0L)	CL-21
C101	Transaxle range switch (2.7L)	CL-21
C117	Starter clutch pedal position switch (2.7L)	CL-23
C141	Joint connector (2.7L)	CL-25
E28	Battery (+) terminal	CL-11
E41	Start relay	CL-12
E56	Joint connector	CL-12
E62	Start solenoid (2.7L)	CL-13
E63	Start motor (+) (2.7L)	CL-13
E67	Start solenoid (2.0L)	CL-13
E68	Start motor (+) (2.0L)	CL-13
M04	Ignition switch	CL-2
M41	Burglar alarm relay	CL-4
<b>Connectors</b>		
BCM-KM		CL-8
BCM-LM		CL-8
EC01		CL-14
EC101		CL-14
EC201		CL-14
EE01		CL-14
EE03		CL-14
EM01		CL-14
MC01		CL-8
MC101		CL-8
MC201		CL-8
<b>Grounds</b>		
G15		CL-33

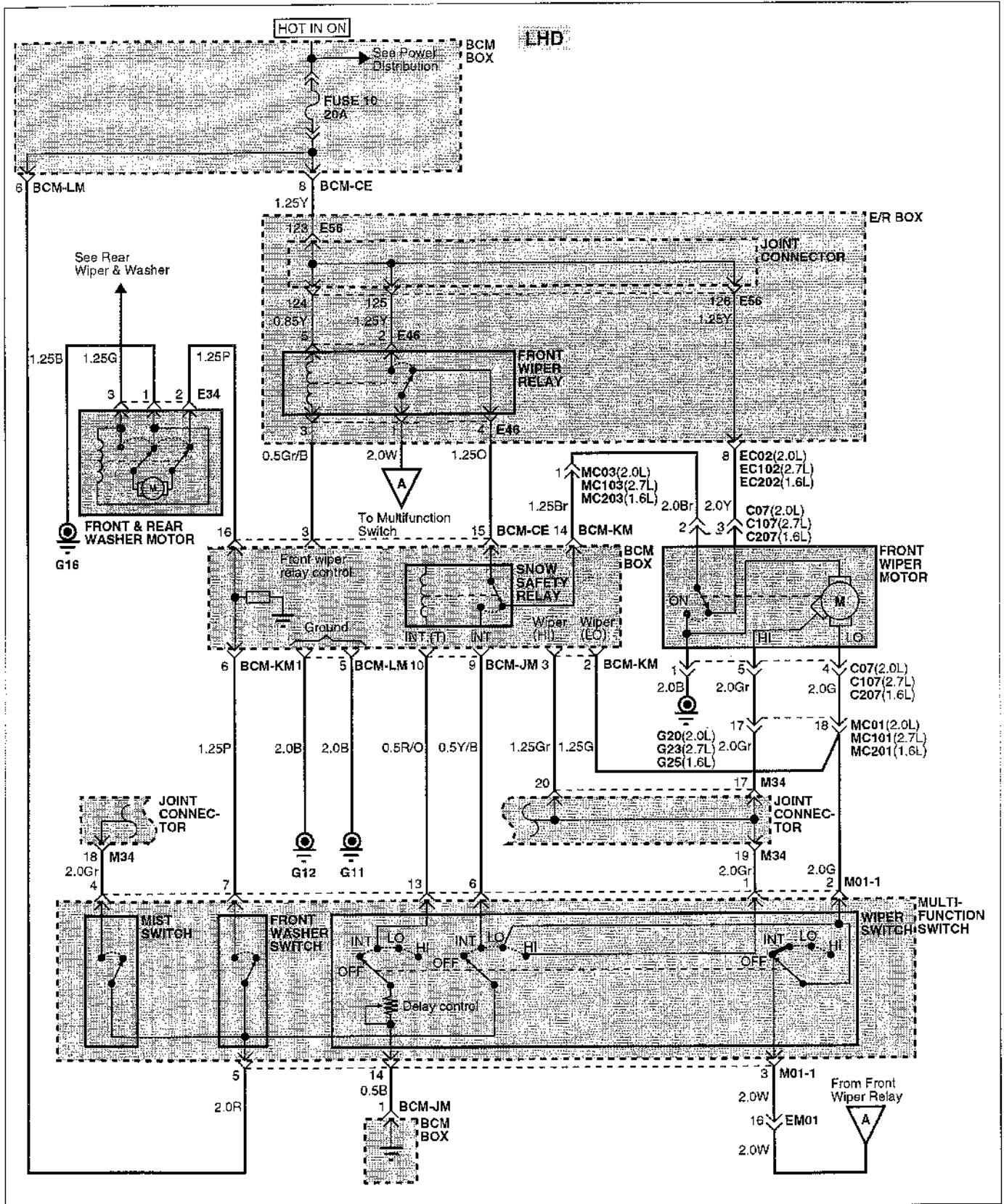
**Circuit Description**

Battery voltage is applied at all times from the positive battery terminal to the ignition switch and the normally open start relay contacts. When the ignition switch is turned to START and the transaxle range switch (automatic transaxle) is in P/N position or the starter clutch pedal position switch (Manual transaxle) is closed, battery voltage is applied through burglar alarm relay to the starter relay coils. The start relay coils energize, the start relay contacts close, and battery voltage is applied to the starter solenoid. The motor engages to start the engine.

FRONT WIPER & WASHER

E2GC0210

FRONT WIPER & WASHER (1)



## COMPONENT LOCATION INDEX

Components	Location reference-page
D09 Left door lock actuator	CL-30
D19 Right door lock actuator	CL-30
M45 Joint connector	CL-4
Connectors	
BCM-EF	CL-8
BCM-FF	CL-8
BCM-LM	CL-8
MD01	CL-8
MD02	CL-8
MD03	CL-8
MD04	CL-8
Grounds	
G01	CL-32
G02	CL-32
G11	CL-33
G12	CL-33

**Circuit Description**

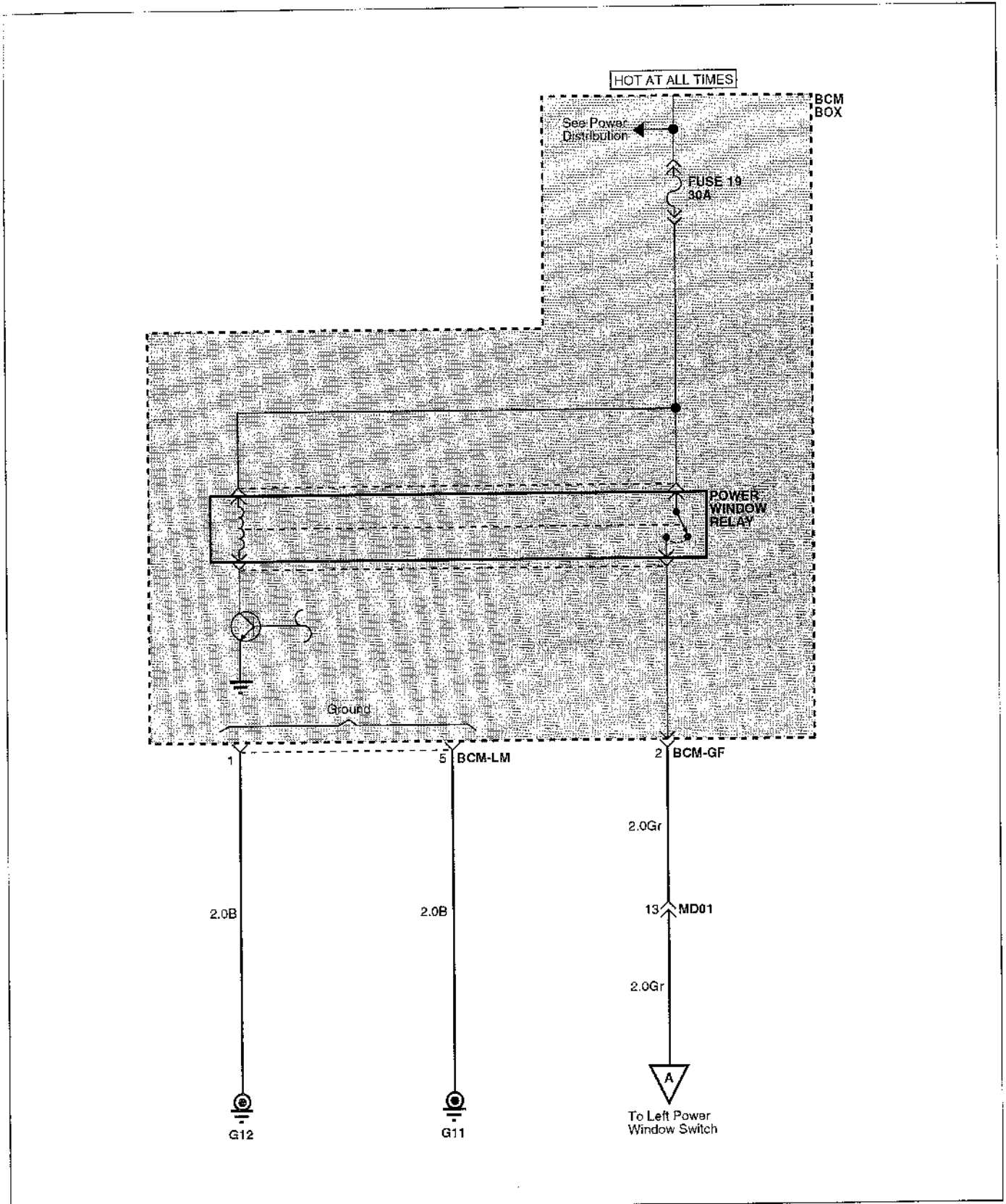
Battery voltage is applied at all times to the door lock relays and unlock relay. When locking the vehicle by using the door unlock switch in the left power window switch, the door unlock switch will provide a ground to the lock relay and the doors lock. When locking the doors by using the vehicle key or pushing down the lock knob, a signal will be sent to the body control module. The control module will then ground the relay according to the vehicle speed and the doors lock. The body control module also has an input from the ignition key switch. This input prevents the doors from accidentally being locked when exiting the vehicle with the ignition off and the key left in the ignition switch.

When you turn the driver's master switch assembly to the UNLOCK position, a path to ground is supplied to the unlock relay. Battery voltage is applied to the door lock actuators. The polarity of the voltage applied to the actuators is now reversed and the doors unlock.

POWER WINDOWS

E2GC0290

POWER WINDOWS (1)





## COMPONENT LOCATION INDEX

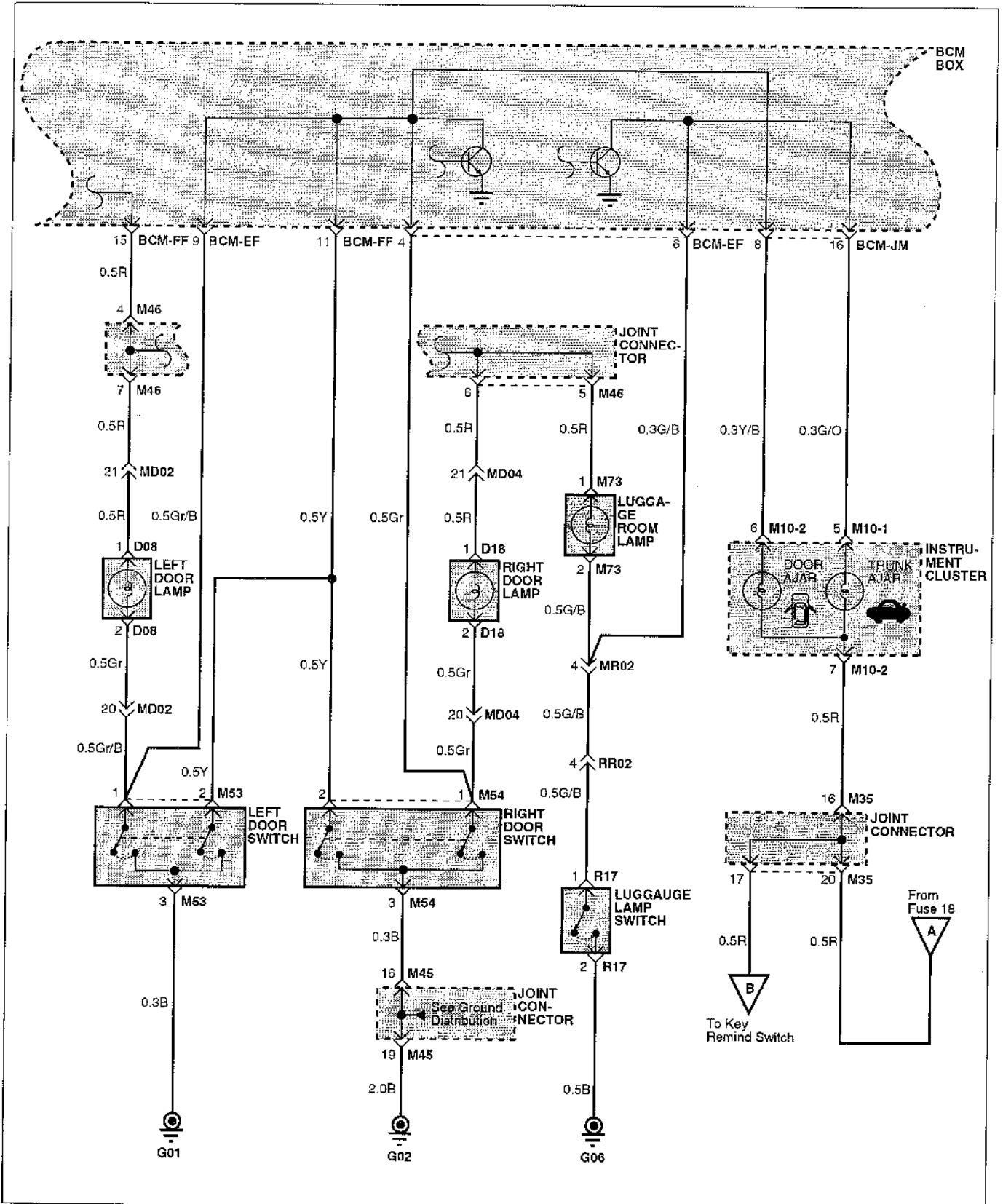
Components	Location reference-page
E07 Left head lamp	CL-10
E27 Right head lamp	CL-11
E48 Head lamp relay (LOW)	CL-12
E51 Head lamp relay (HIGH)	CL-12
E56 Joint connector	CL-12
M01-2 Multifunction switch	CL-2
M10-1 Instrument cluster	CL-4
M27 Auto light sensor	CL-3
M36 Joint connector	CL-4
<b>Connectors</b>	
BCM-CE	CL-14
BCM-HM	CL-8
BCM-IM	CL-8
BCM-JM	CL-8
BCM-LM	CL-8
EM01	CL-14
<b>Grounds</b>	
G11	CL-33
G12	CL-33
G15	CL-33

**Circuit Description**

For the visibility of driver, the auto light sensor controls automatically the head lamps and tail lamps through relay coil control. When the light switch in AUTO and the auto light sensor detects low intensity of illumination, ground is provided to the head lamp relays through auto light sensor. Battery voltage is supplied to the head lamps through head lamp fuses and head lamp relays(high/ low) contact.

Auto light sensor sends output signals to the BCM and the BCM controls the tail lamp relay. Of course, the head lamps and tail lamps can be controlled independently by using light switch and dimmer/passing switch.

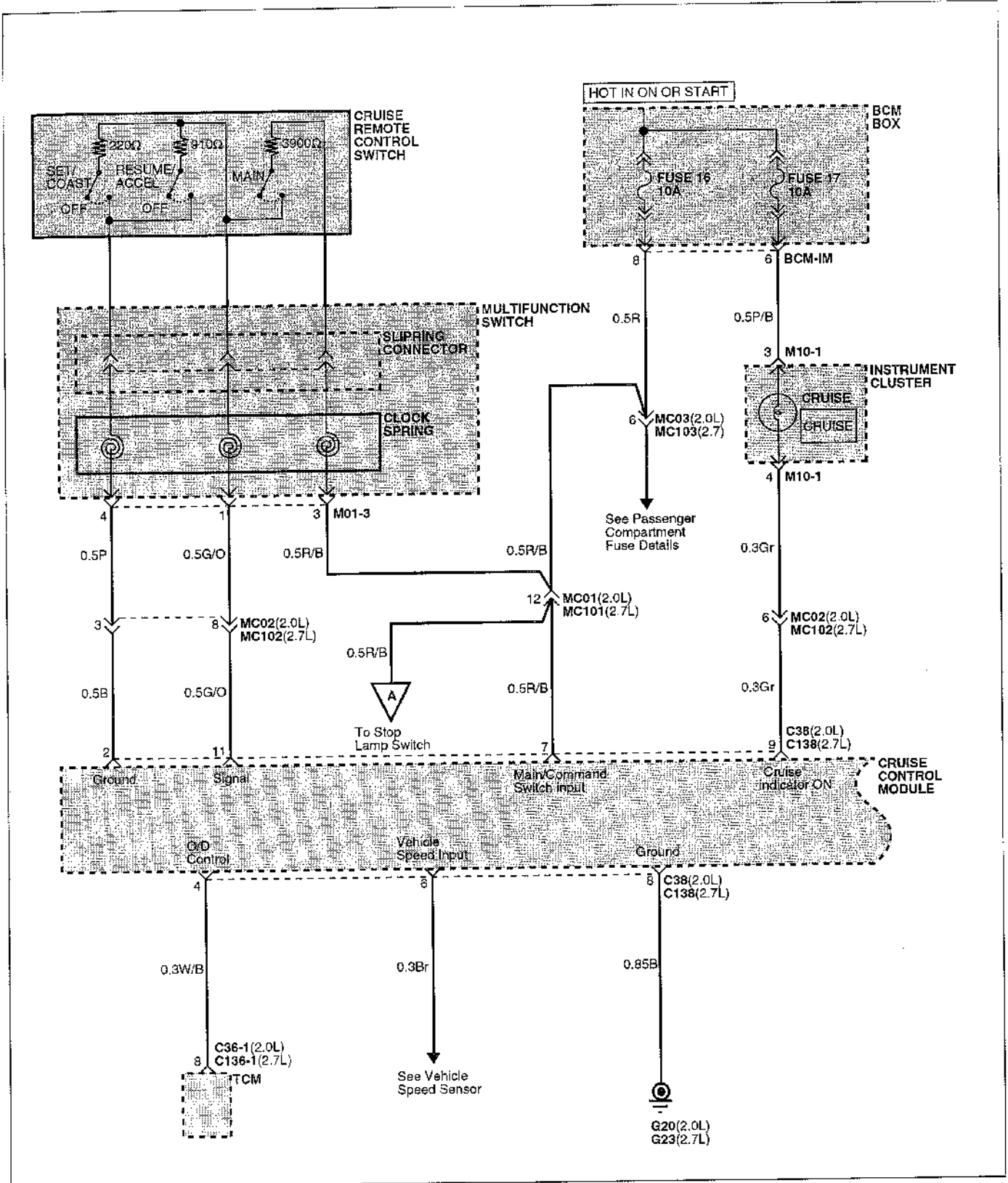
COURTESY, LUGGAGE ROOM LAMP AND KEY REMIND SWITCH (2)



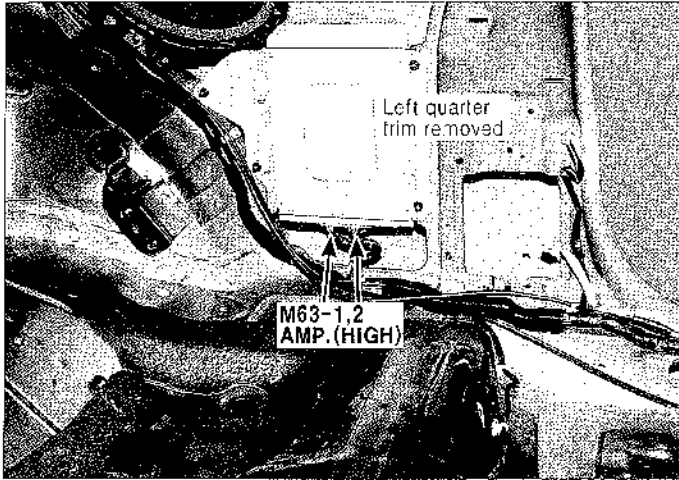
# CRUISE CONTROL SYSTEM

E2GC0470

## CRUISE CONTROL SYSTEM (1)

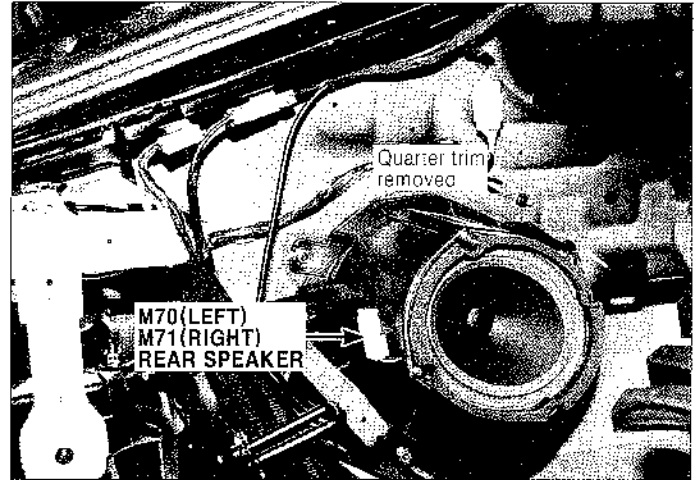


MAIN HARNESS(5)



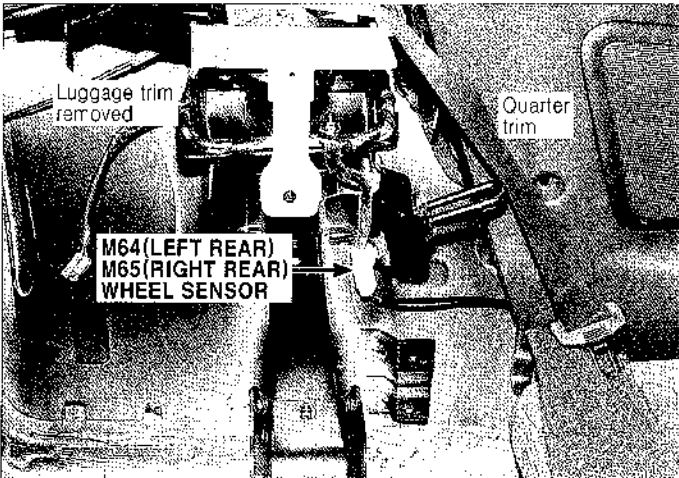
M63-1,M63-2

E3GC3A1A



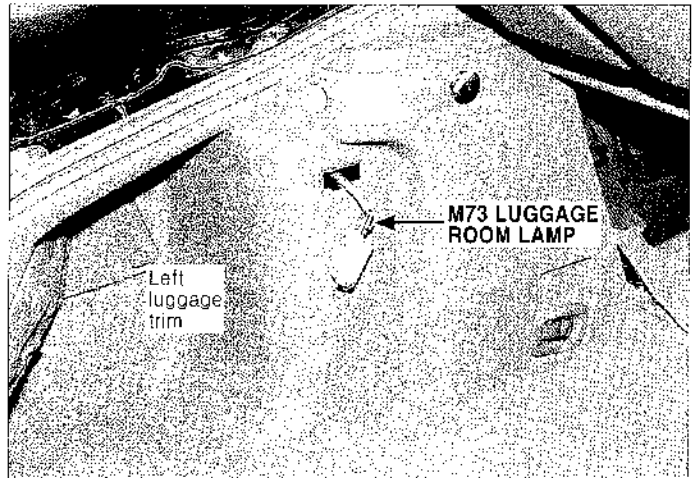
M70,M71

E3GC3A1D



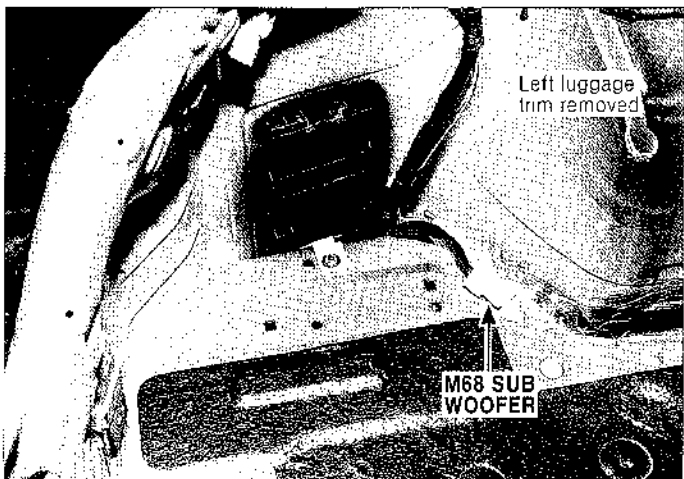
M64,M65

E3GC3A1B



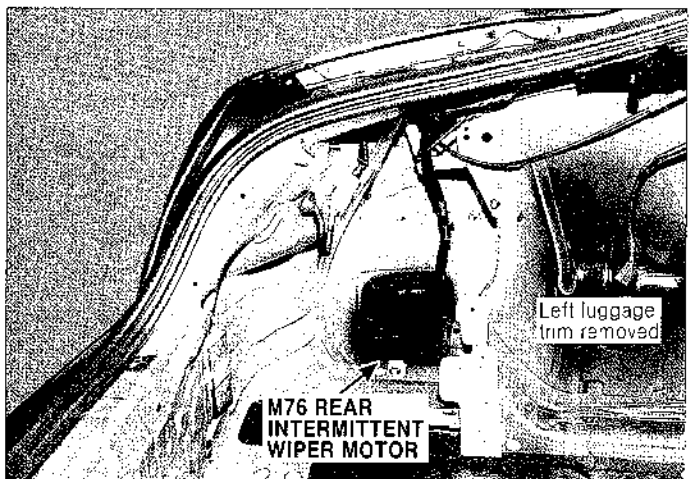
M73

E3GC3A1E



M68

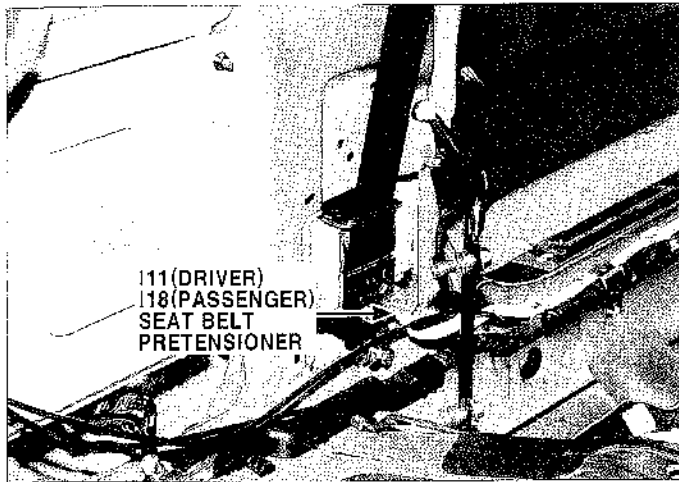
E3GC3A1C



M76

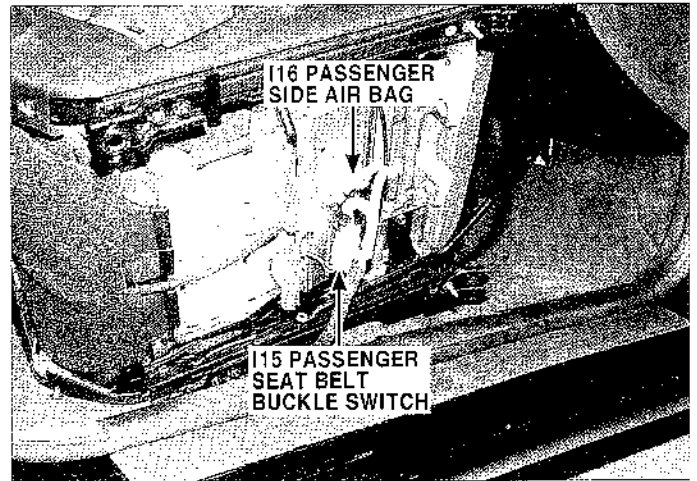
E3GC3A1F

AIR BAG & A/C HARNESS(2)



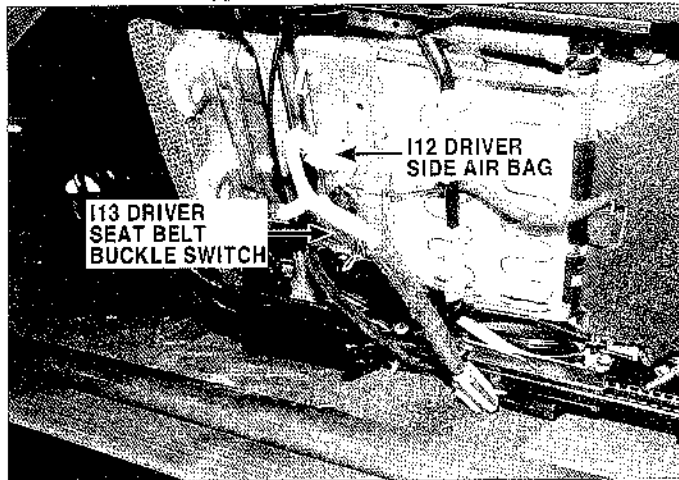
I11,I18

E3GC303G



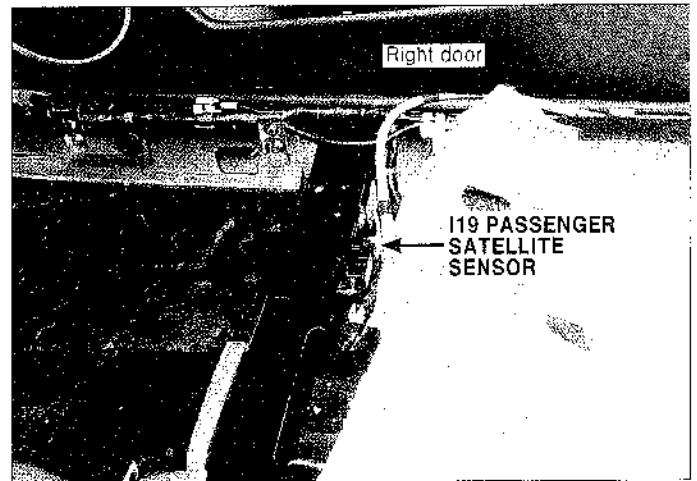
I15,I16

E3GC303K



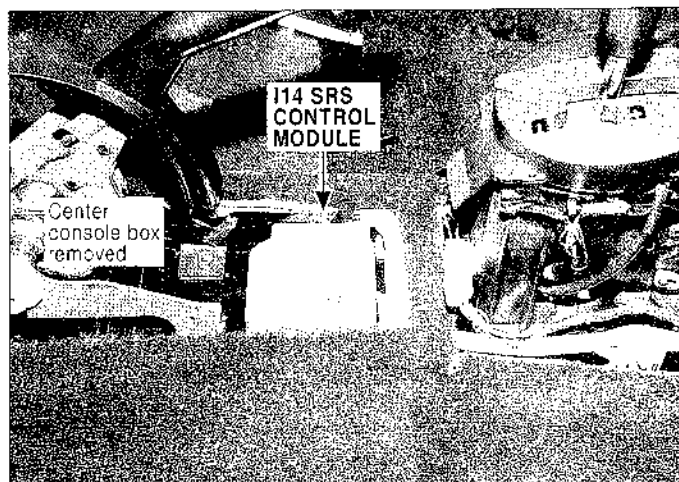
I12,I13

E3GC303H



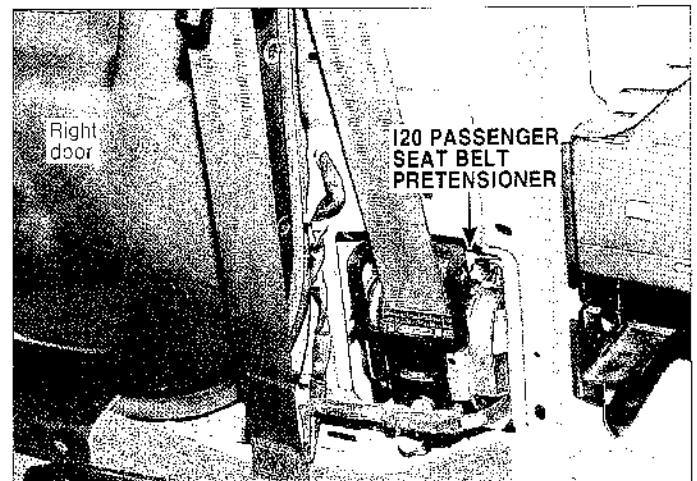
I19

E3GC303L



I14

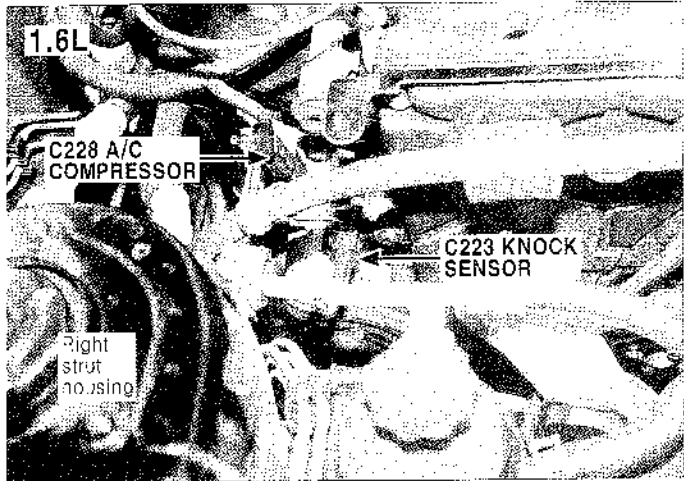
E3GC303J



I20

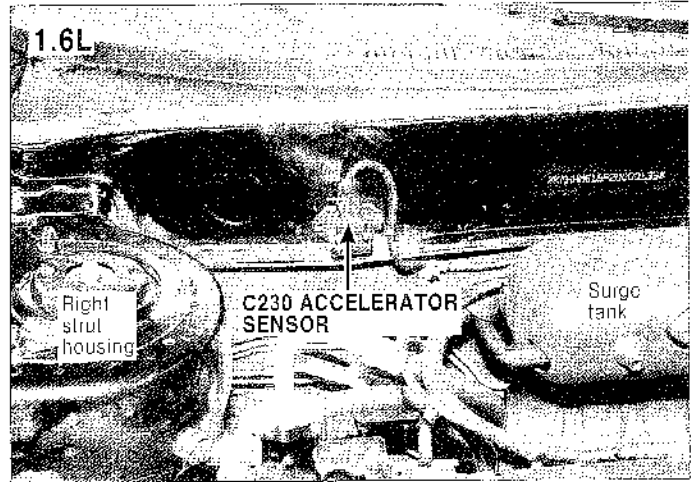
E3GC303V

CONTROL HARNESS(11)



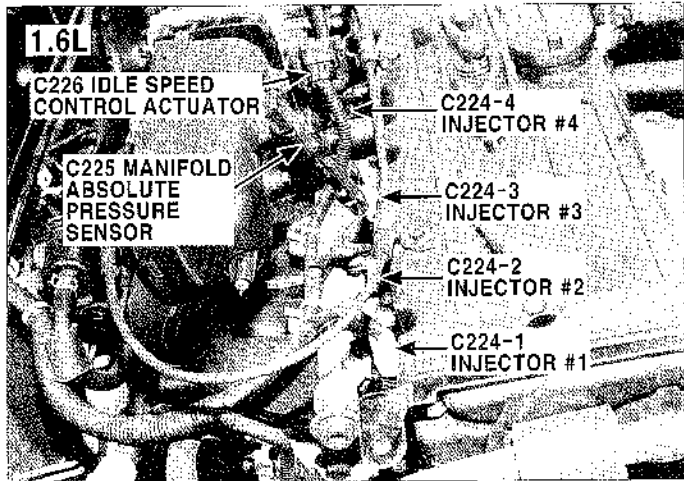
C223,C228

E3GC3B4N



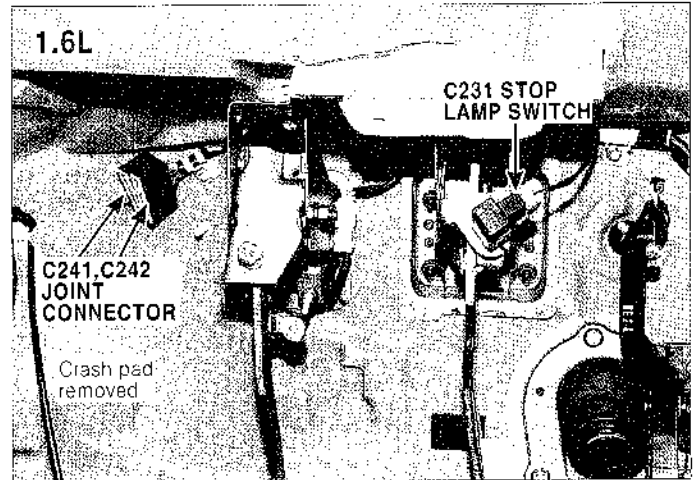
C230

E3GC334R



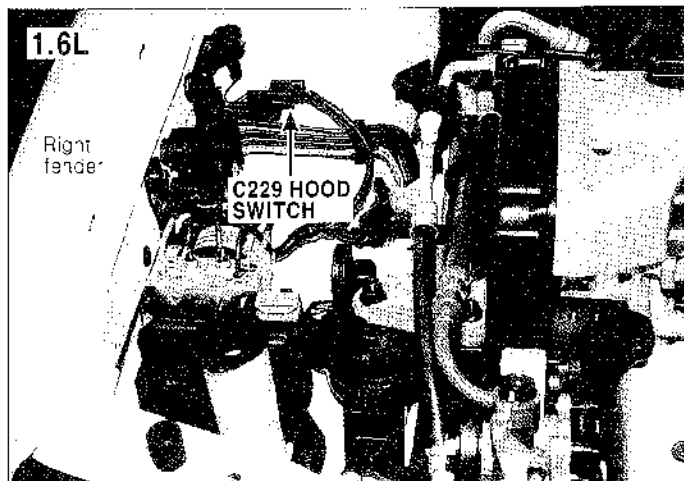
C224-1,C224-2,C224-3,C224-4  
C225,C226

E3GC3B4P



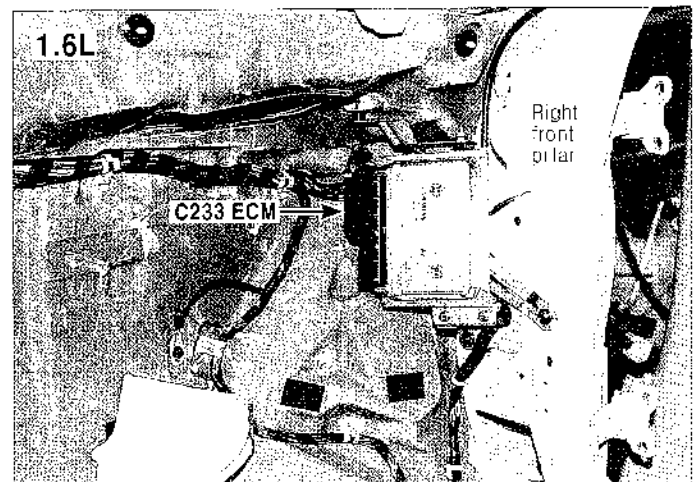
C231,C241,C242

E3GC3B4S



C229

E3GC3B4Q



C233

E3GC3B4T

MAIN HARNESS (5)

