

SCHEMATIC DIAGRAMS

AIR BAG SYSTEM (SRS)	SD-174
ANTI-LOCK BRAKE SYSTEM	SD-84
AUDIO SYSTEM	SD-138
AUTOMATIC TRANSAXLE CONTROL SYSTEM	SD-72
BACK-UP LAMPS	SD-160
BLOWER & A/C CONTROLS (AUTO)	SD-178
BLOWER & A/C CONTROLS (MANUAL)	SD-184
CHARGING SYSTEM	SD-40
CIGARETTE LIGHTER (POWER OUTLET)	SD-92
COOLING SYSTEM	SD-44
COURTESY & TAIL GATE LAMPS	SD-164
CRUISE CONTROL SYSTEM	SD-176
DATA LINK DETAILS	SD-28
DAYTIME RUNNING LIGHTS	SD-144
DIGITAL CLOCK	SD-94
ELECTRONIC CHROME MIRROR	SD-126
ETACS (ELECTRONIC TIME & ALARM CONTROL SYSTEM)	SD-96
FRONT FOG & REAR FOG LAMPS	SD-154
FRONT WIPER & WASHER	SD-100
FUEL HEATER CONTROL SYSTEM	SD-70
FUSE & RELAY INFORMATION	SD-2
GROUND DISTRIBUTION	SD-20
HEAD LAMP LEVELING DEVICE	SD-148
HEAD LAMPS	SD-142
HORNS	SD-140
ILLUMINATIONS	SD-168
IMMOBILIZER CONTROL SYSTEM	SD-88
INDICATORS & GAUGES	SD-108
KEYLESS ENTRY & BURGLAR ALARM CONTROL SYSTEM	SD-104
MFI CONTROL SYSTEM (COVEC-F)	SD-48
MFI CONTROL SYSTEM (2.9TCI)	SD-56
MFI CONTROL SYSTEM (GASOLINE)	SD-62
MFI CONTROL/ AUTOMATIC TRANSAXLE CONTROL SYSTEM	SD-189
(FULL CIRCUIT DIAGRAM)	
MULTIMETER	SD-116
PASSENGER COMPARTMENT FUSE DETAILS	SD-16
POWER DISTRIBUTION	SD-8
POWER DOOR LOCKS	SD-118
POWER OUTSIDE MIRRORS	SD-122
POWER SEAT	SD-128
POWER WINDOWS	SD-132
REAR WINDOW & OUTSIDE MIRROR DEFOGGER SYSTEM	SD-124
REAR WIPER & WASHER	SD-102
SEAT WARMER	SD-130
STARTING SYSTEM	SD-34
STOP LAMPS	SD-162
SUNROOF	SD-136
TAIL, PARKING & LICENSE LAMPS	SD-158
TCCS (EST)	SD-80
TCCS (TOD)	SD-76
TURN & HAZARD LAMPS	SD-150
VEHICLE SPEED SENSOR	SD-32

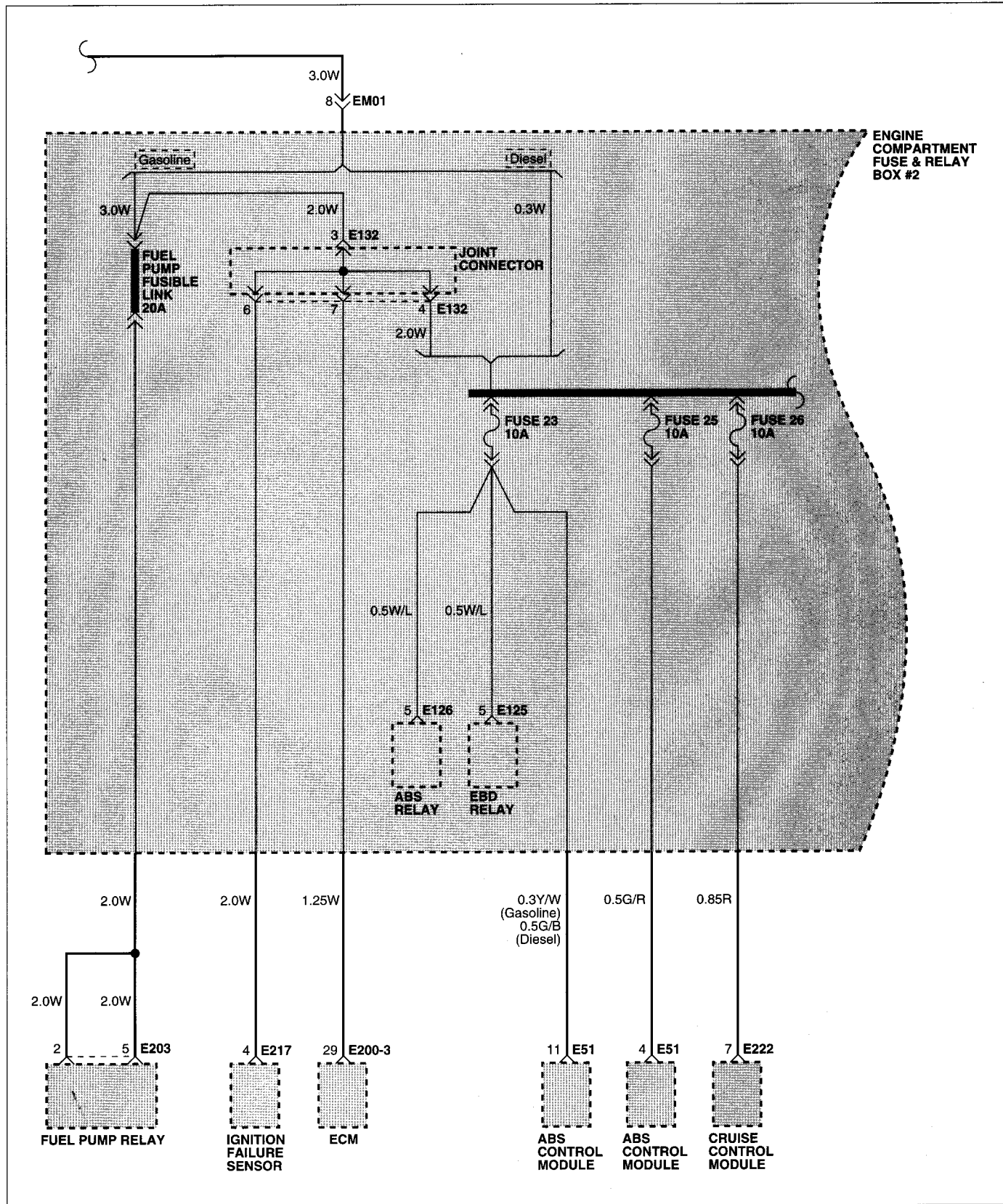


CIRCUIT

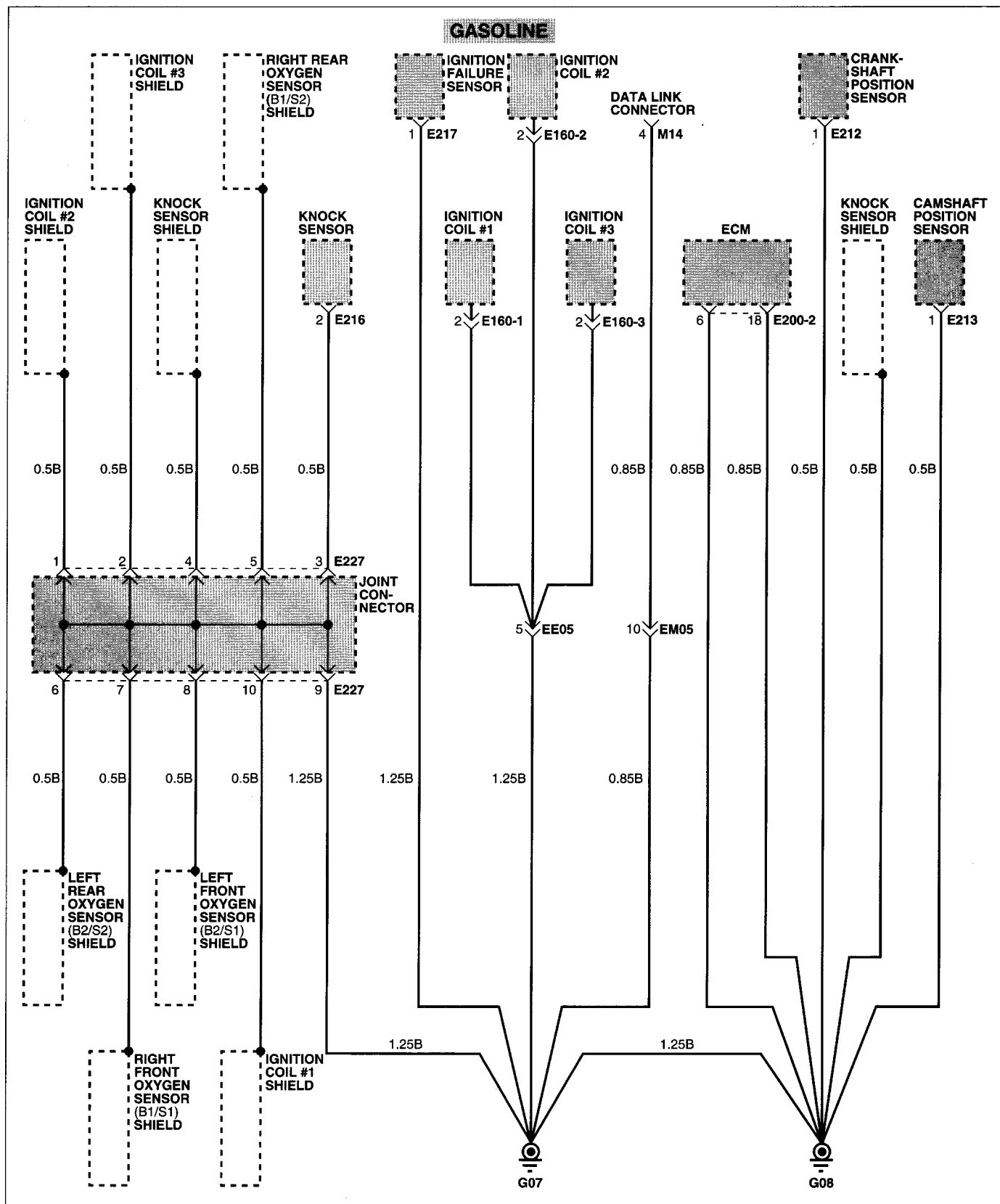
NO	Amperage (A)	Circuit protected
1	30A	Defogger
2	10A	Hazard relay, Hazard
3	15A	Stop lamps
4	20A	Transfer (TOD control module, EST control module)
5	10A	-
6	15A	Sunroof
7	30A	Blower relay
8	20A	Power door locks
9	10A	Rear fog lamp relay
10	10A	Audio, Overhead console lamp
11	15A	Cigarette lighter, Power outlet
12	10A	Outside mirror
13	-	-
14	-	-
15	10A	A/C switch
16	10A	Left/Right outside mirror motor & defogger
17	-	-
18	10A	TCM, ECM(COVEC-F), TCCS(TOD, EST), Immobilizer
19	10A	Back-up lamp, Inside mirror, Transaxle range switch
20	10A	Hazard switch
21	10A	Instrument cluster, ETACM, Vehicle speed sensor, DRL control module
22	10A	Air bag
23	10A	Air bag IND.
24	-	-
25	10A	Blower & A/C, ETACM, Defogger relay
26	15A	Seat warmer
27	10A	Sunroof, Rear wiper & washer, Cruise switch
28	10A	Start relay, Burglar alarm relay

*** USE THE DESIGNATED FUSE ONLY**

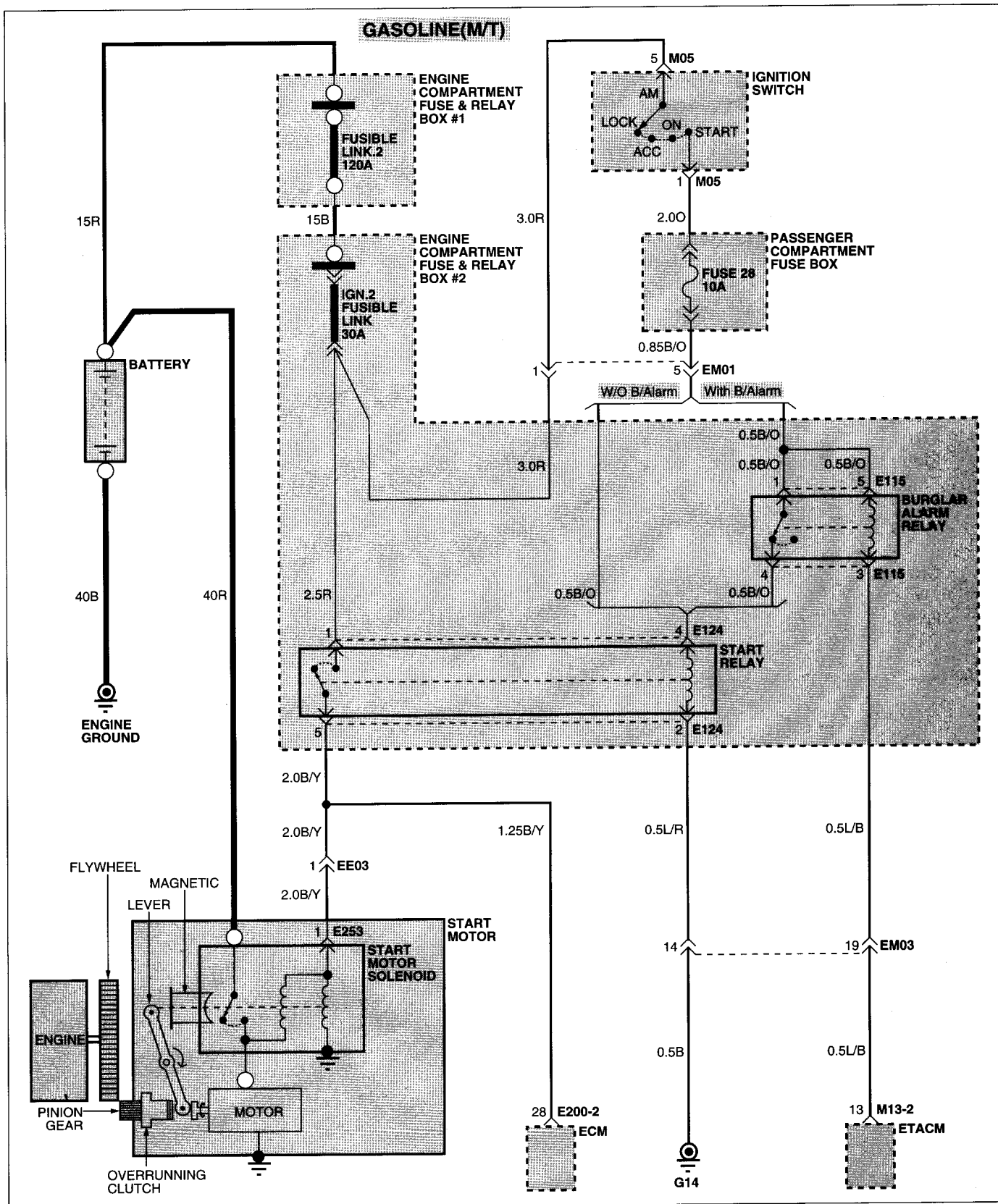
POWER DISTRIBUTION (4)



GROUND DISTRIBUTION (3)



STARTING SYSTEM (4)



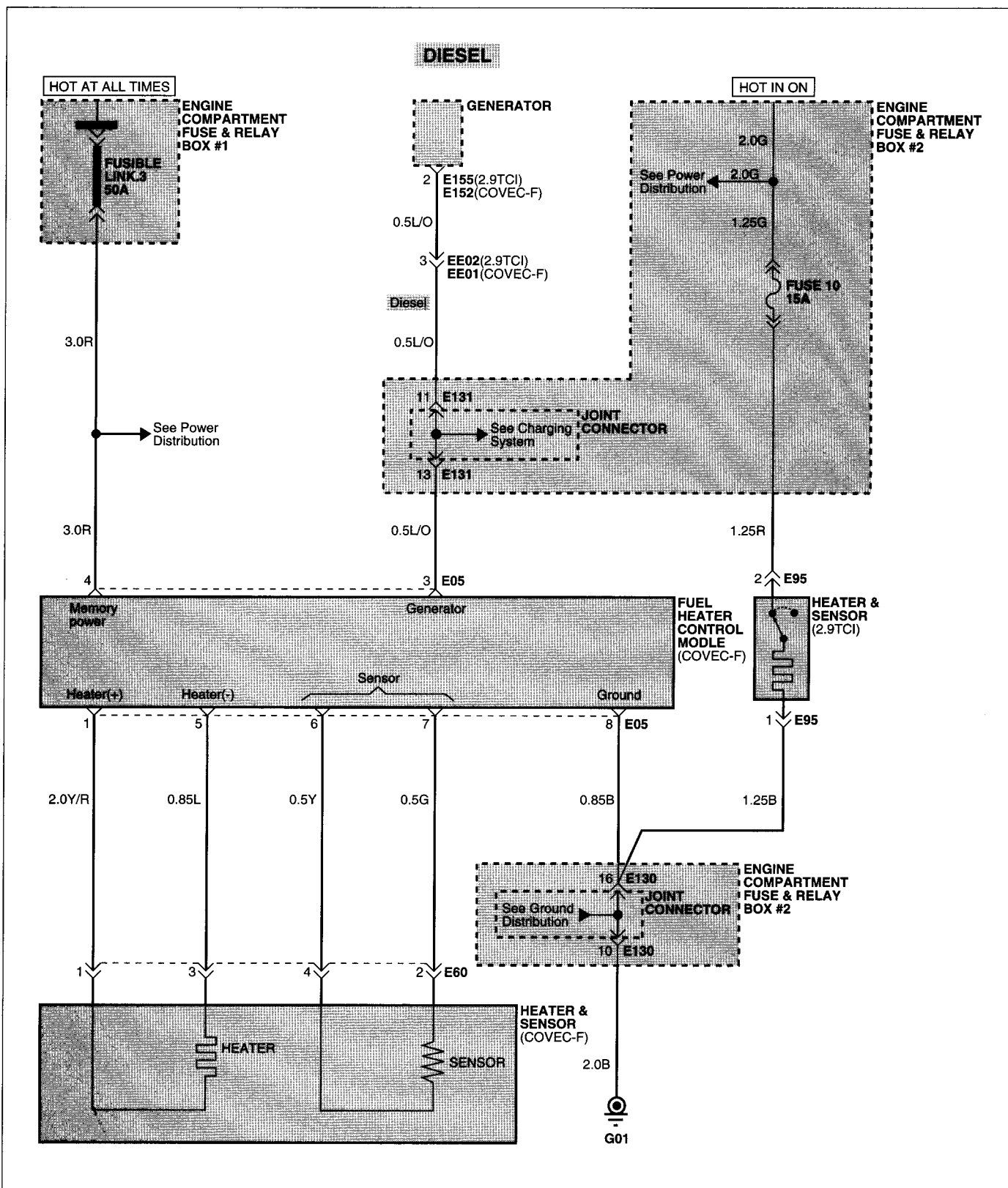
COMPONENT LOCATION INDEX

Component		Location reference - page
C04	Crankshaft position sensor	CL-21
E03-1	ECM	CL- 8
E03-2	ECM	CL- 8
E03-3	ECM	CL- 8
E17	Mass air flow sensor	CL- 8
E34	EGR solenoid	CL- 9
E43	Engine coolant temperature sensor & sender	CL-10
E52	Air heater relay #2	CL- 9
E85	Fuel temperature sensor	CL-13
E86	Inlet metering valve	CL-13
E88	Rail pressure sensor	CL-13
E89	Knock sensor	CL-13
E90	Camshaft position sensor	CL-13
E91	Air heater #1	CL-13
E92	Air heater #2	CL-13
E110	Condenser fan relay #1	CL-14
E113	Engine control relay	CL-14
E131	Joint connector	CL-14
E132	Joint connector	CL-14
E140	Air heater relay #1	CL-14
E157-1	Injector #1	CL-15
E157-2	Injector #2	CL-15
E157-3	Injector #3	CL-15
E157-4	Injector #4	CL-15
I03-1	Instrument cluster	CL-20
I03-2	Instrument cluster	CL-20
I03-3	Instrument cluster	CL-20
M07	Accelerator position sensor	CL- 2
M08	Immobilizer control module	CL- 2
M11	Stop lamp switch	CL- 3
M14	Data link connector	CL- 2
M16	Clutch pedal position switch	CL- 3
M20-1	TCM	CL- 3
M22-2	TOD control module	CL- 3
M70	Joint connector	CL- 5
Connectors		
EE07		CL-19
EM02		CL-19
EM05		CL-19
EM06		CL-19
MC01		CL- 6
MC02		CL- 6
MI01		CL- 6
Grounds		
G09		CL-29
G11		CL-29
G14		CL-29

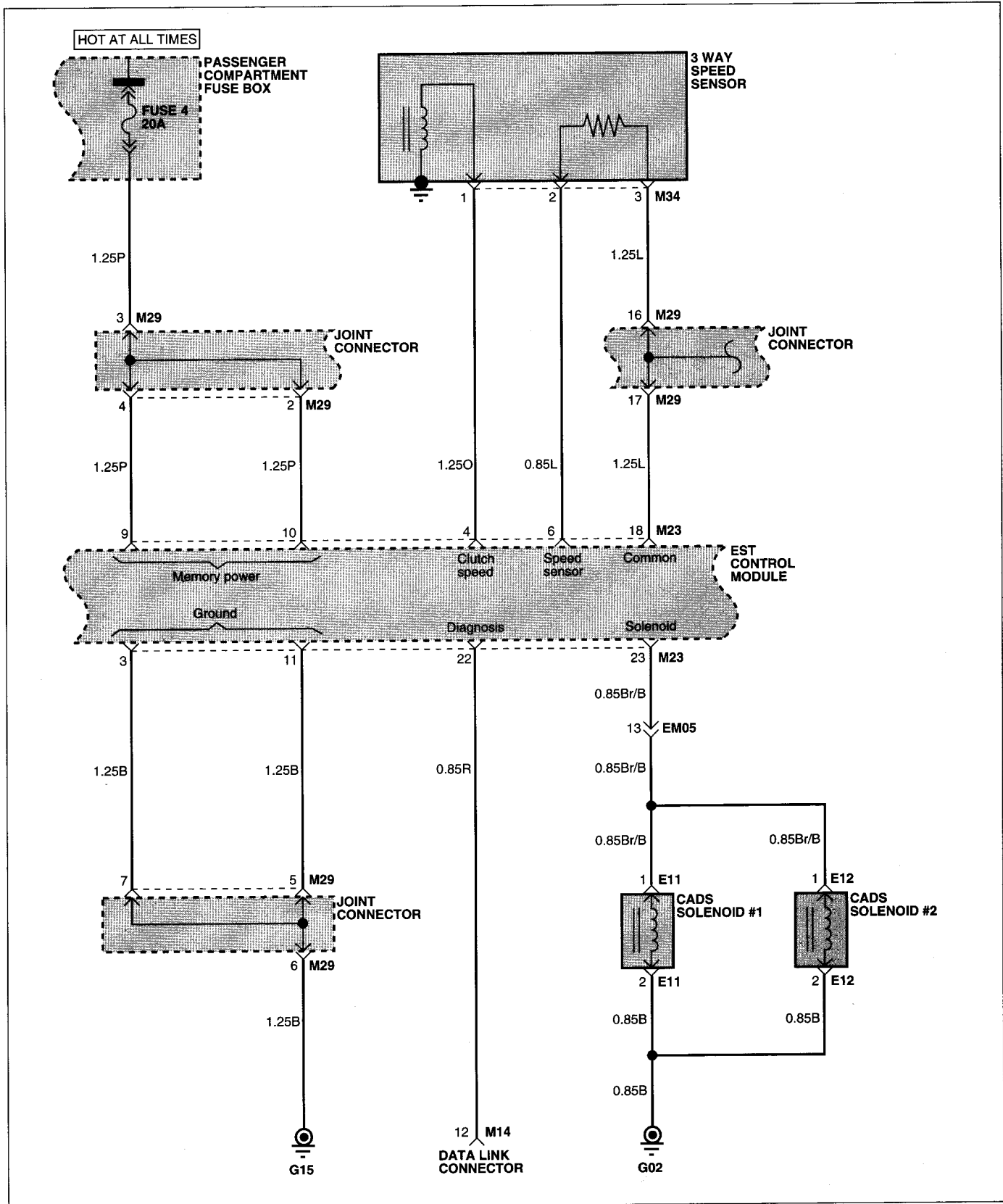
FUEL HEATER CONTROL SYSTEM

EBE5A32C

FUEL HEATER CONTROL SYSTEM (1)



TCCS (EST) (2)



COMPONENT LOCATION INDEX

Components		Location reference - page
E08	Rear washer motor	CL- 8
M33	Rear washer & wiper switch	CL- 4
M68	Joint connector	CL- 5
M70	Joint connector	CL- 5
R34	Rear wiper motor	CL-25
Connectors		
EM06		CL-19
MR06		CL- 7
RR02		CL-26
RR04		CL-26
Grounds		
G14		CL-29
G20		CL-30

Circuit Description

All functions of the rear wiper and washer circuits are controlled by the position of the rear wiper and washer switch.

Rear Wiper Operation

The rear wiper switch has 3 positions (OFF, ON and INT).

1. When the ON position is selected, the rear window wiper operates continuously.
2. When the INT position is selected, the wiper operates intermittently.

Rear Washer Operation

When the WASHER position is selected, the rear wiper operates several times after the washer fluid sprays onto the rear window.

Circuit Description

Gauges Operation

When the ignition switch is in the ON or START position, battery voltage is applied to the gauges (speedometer, tachometer, fuel gauge and engine coolant temperature gauge) from fuse 21.

Speedometer

The speedometer drive circuit receives pulses from the vehicle speed sensor (VSS). The pulse rate increases as the car accelerates. The frequency and duration of these input pulses are measured and displayed by the speedometer.

Tachometer

The tachometer displays engine speed in rpm. Voltage pulses are taken from the ignition system and sent to the tachometer. The tachometer responds to the frequency of the voltage pulses, which vary according to engine speed. The ECM process these pulses into a signal that causes the gauge needle to move.

Fuel Gauge

The pointer of the fuel gauge is moved by the magnetic fields of two coils. The coils are at right angles to each other. The magnetic field controlled by the fuel gauge sender causes the gauge needle to move. As the resistance in the sender varies, current through the gauge coils changes. When the fuel level is below the thermistor, the resistance of thermistor drops, providing a ground for the low fuel indicator bulb.

Engine Coolant Temperature Gauge

The pointer of the engine coolant temperature gauge is moved by the magnetic field of two coils. The coils are at right angles to each other. The magnetic fields controlled by the engine coolant temperature sender cause the gauge needle to move. As the resistance in the sender varies, current through the gauge coils changes.

Indicator Operation

When the ignition switch is in the ON or START position, battery voltage is applied to the indicator bulb from fuse 21.

Oil Pressure Indicator

When the oil pressure is low (oil pressure switch is closed), ground is provided to the oil pressure indicator bulb.

The oil pressure light comes on when the engine is not running and the ignition is in ON. In that case, the pressure switch remains closed and the indicator light stays on.

Low Fuel Indicator

The thermister in the fuel gauge sender is located near the bottom of the tank. When the fuel level is below the thermister, the resistance of thermister lowers, providing a ground for the indicator.

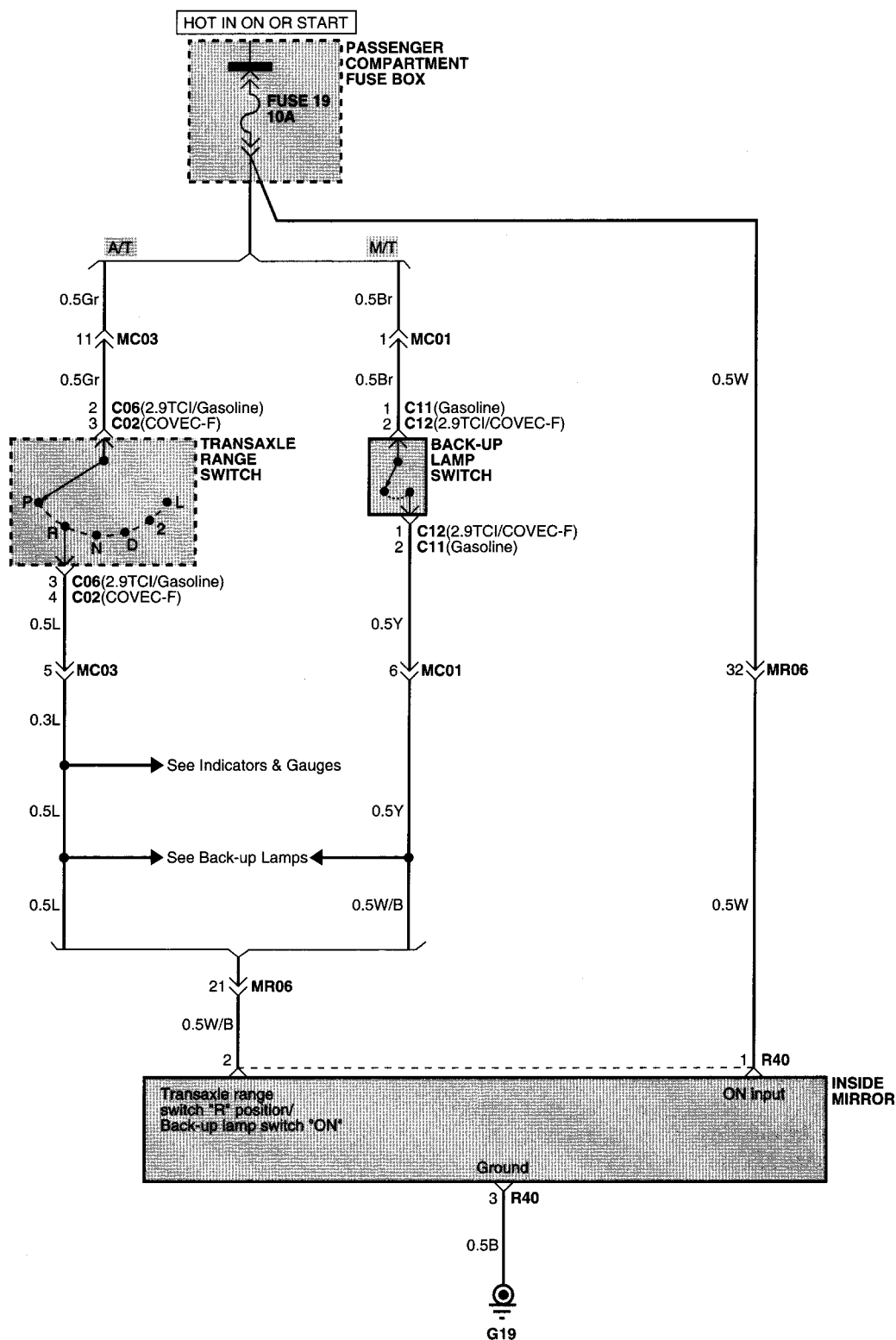
Check ENGINE Indicator

The ground of the indicator lamp is controlled by the Engine Control Module. The control module will light the indicator when the ignition switch is turned ON (system check) or when the ECM detects engine problems.

ELECTRONIC CHROME MIRROR

E53AADD2

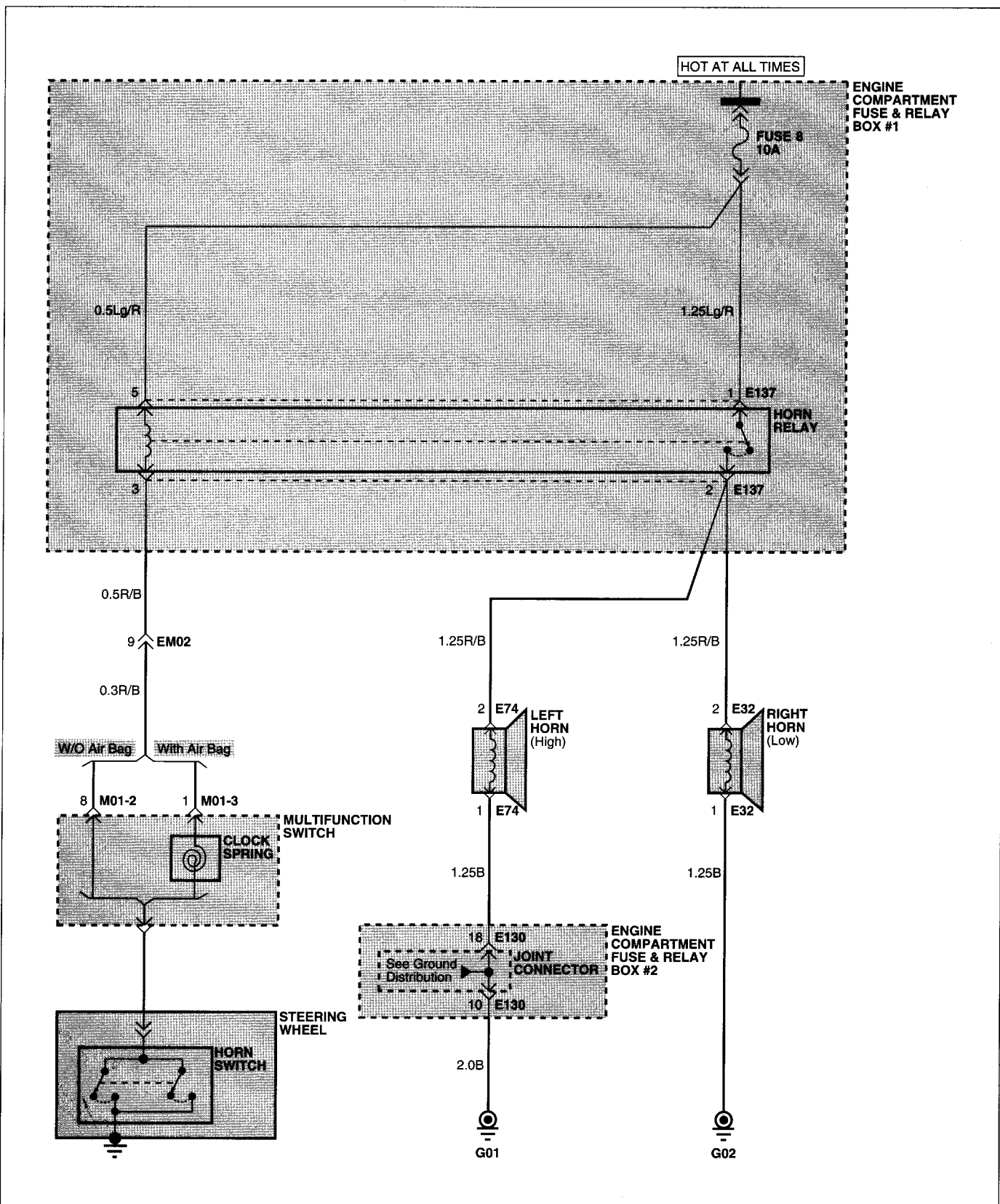
ELECTRONIC CHROME MIRROR (1)



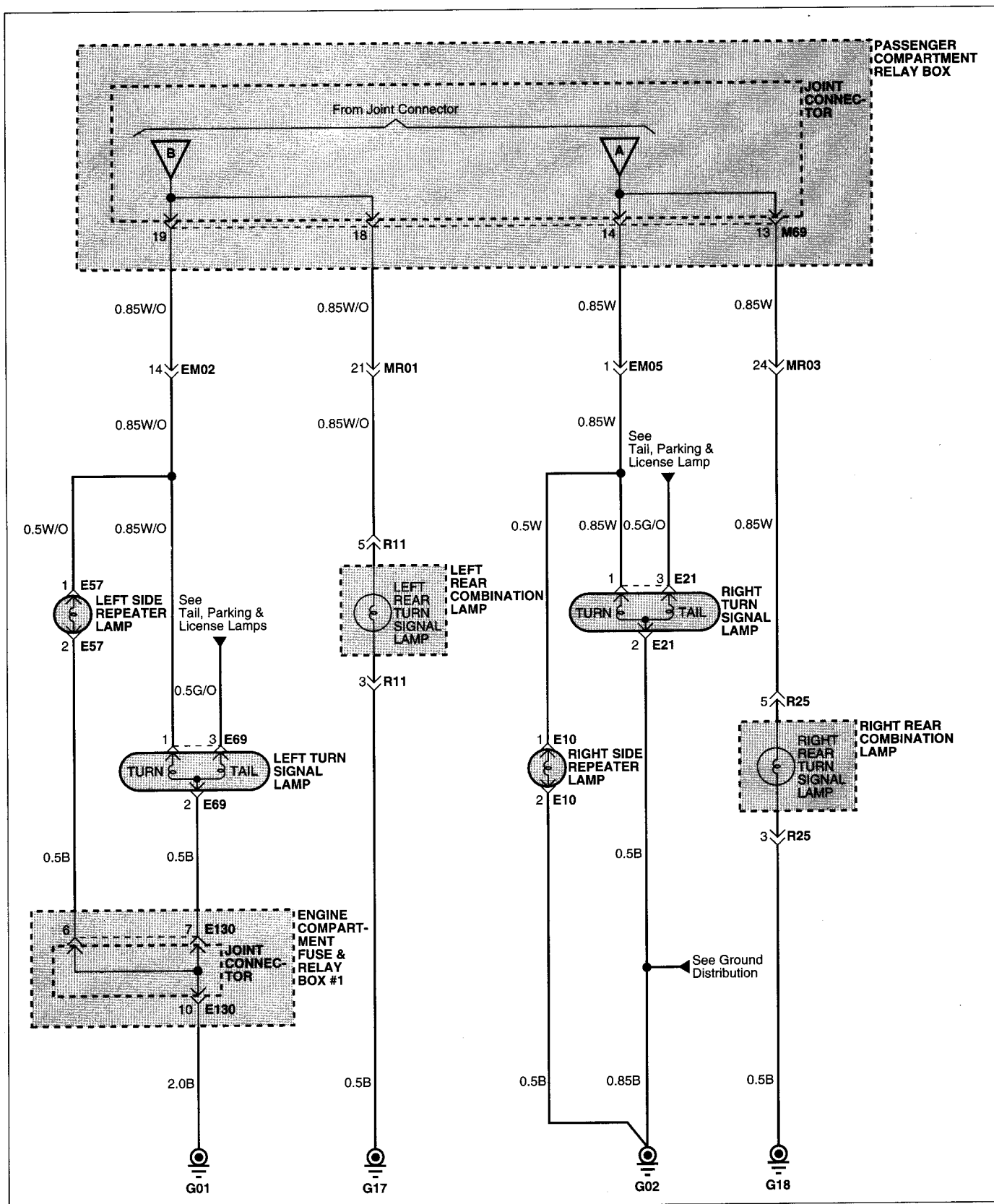
HORNS

E8525EA3

HORNS (1)



TURN & HAZARD LAMPS (2)



COMPONENT LOCATION INDEX

Components		Location reference - page
M10	Condenser	CL- 3
M11	Stop lamp switch	CL- 3
R11	Left rear combination lamp	CL-24
R25	Right rear combination lamp	CL-25
R30	High-mounted stop lamp	CL-25
Connectors		
MR02		CL- 7
MR03		CL- 7
MR06		CL- 7
RR02		CL-26
RR04		CL-26
Grounds		
G17		CL-30
G18		CL-30
G20		CL-30

Circuit Description

Battery voltage is applied to the stop lamp switch at all times from fuse 3. With the brake pedal depressed, the stop lamp switch is closed and battery voltage is applied to all the stop lamps (left/right stop lamps and center high-mounted stop lamp) and the lamps go on.

BLOWER & A/C CONTROL (MANUAL) (2)

