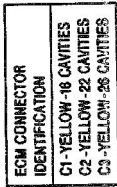


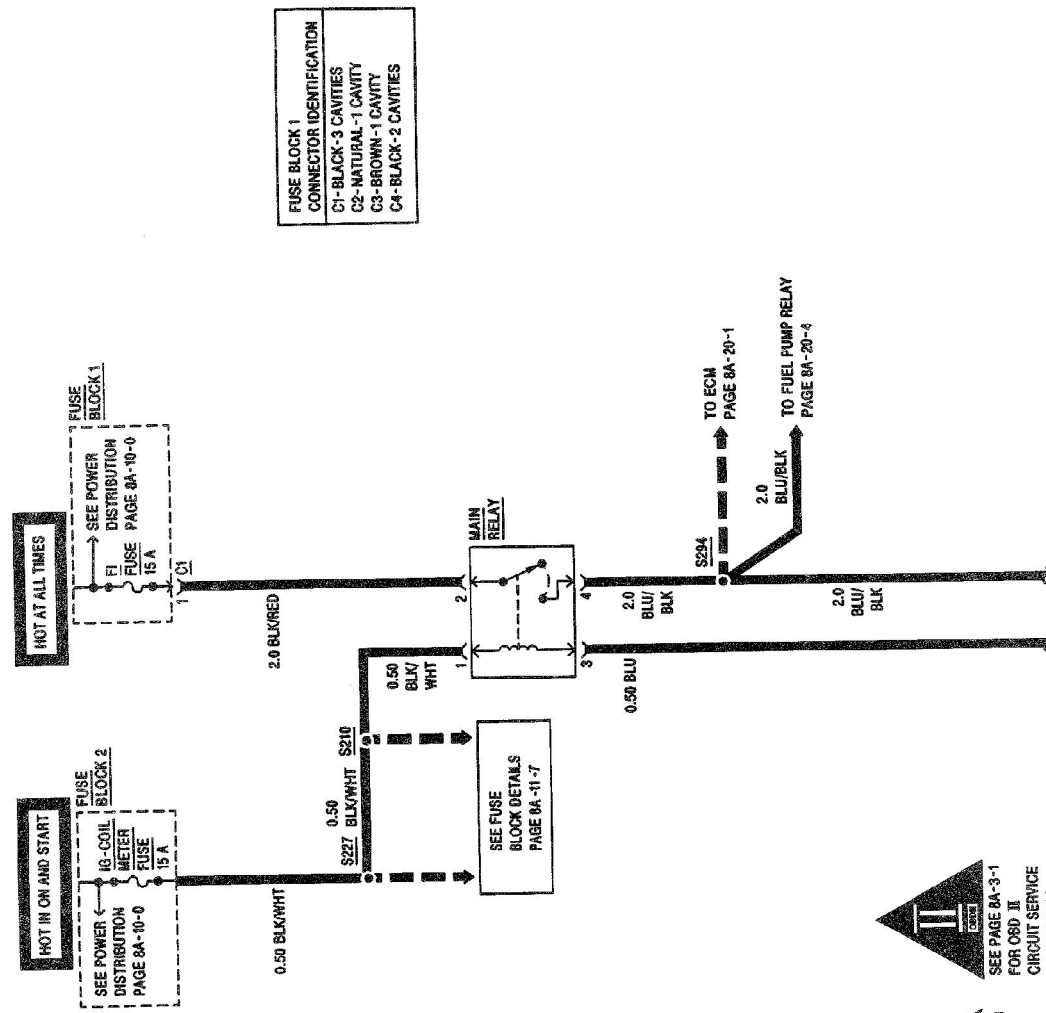


SEE PAGE 8A-4-0
FOR MEASURING
AND HANDLING
PROCEDURES

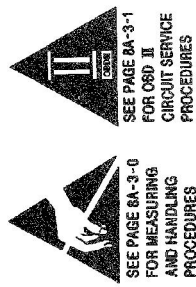


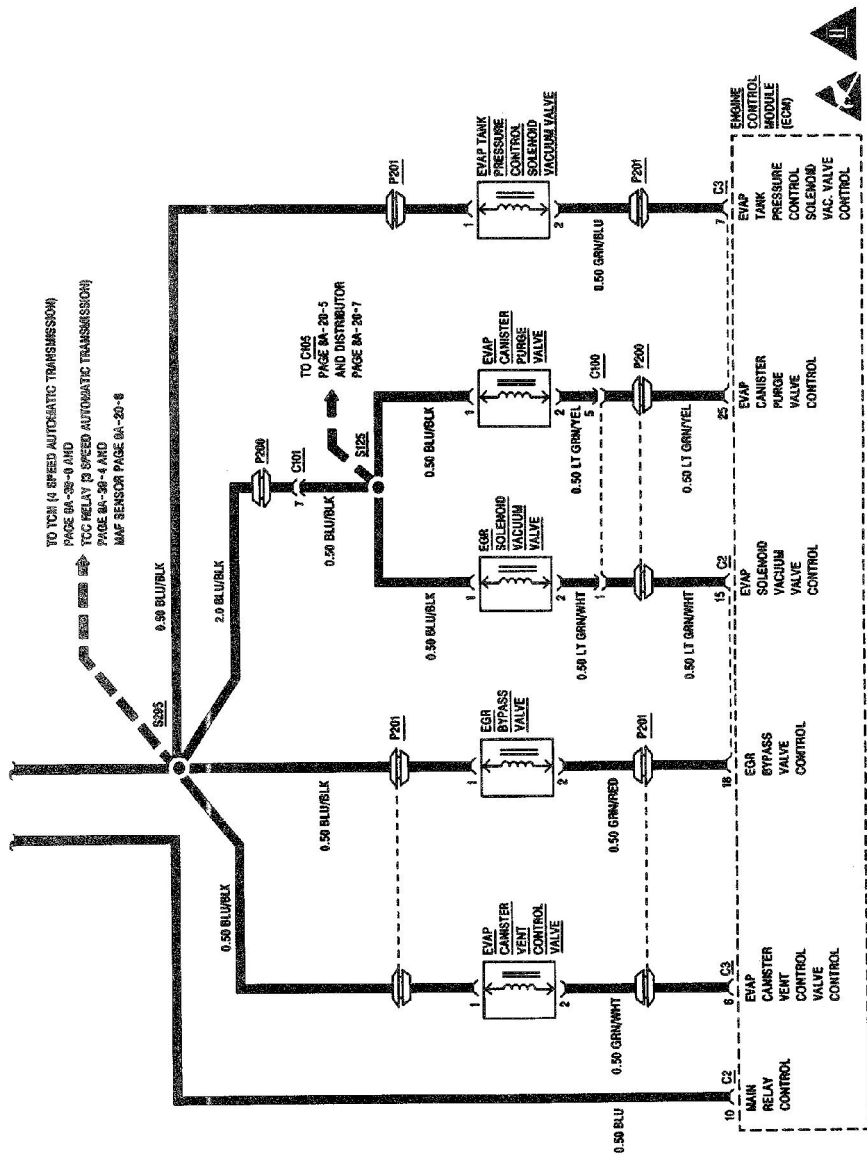
8A - 20 - 2 ELECTRICAL DIAGNOSIS

ENGINE CONTROLS: 1.6L
EMISSION CONTROLS



FUSE BLOCK 1
CONNECTOR IDENTIFICATION
C1-BLACK-3 CAVITIES
C2-NATURAL-1 CAVITY
C3-BROWN-1 CAVITY
C4-BLACK-2 CAVITIES

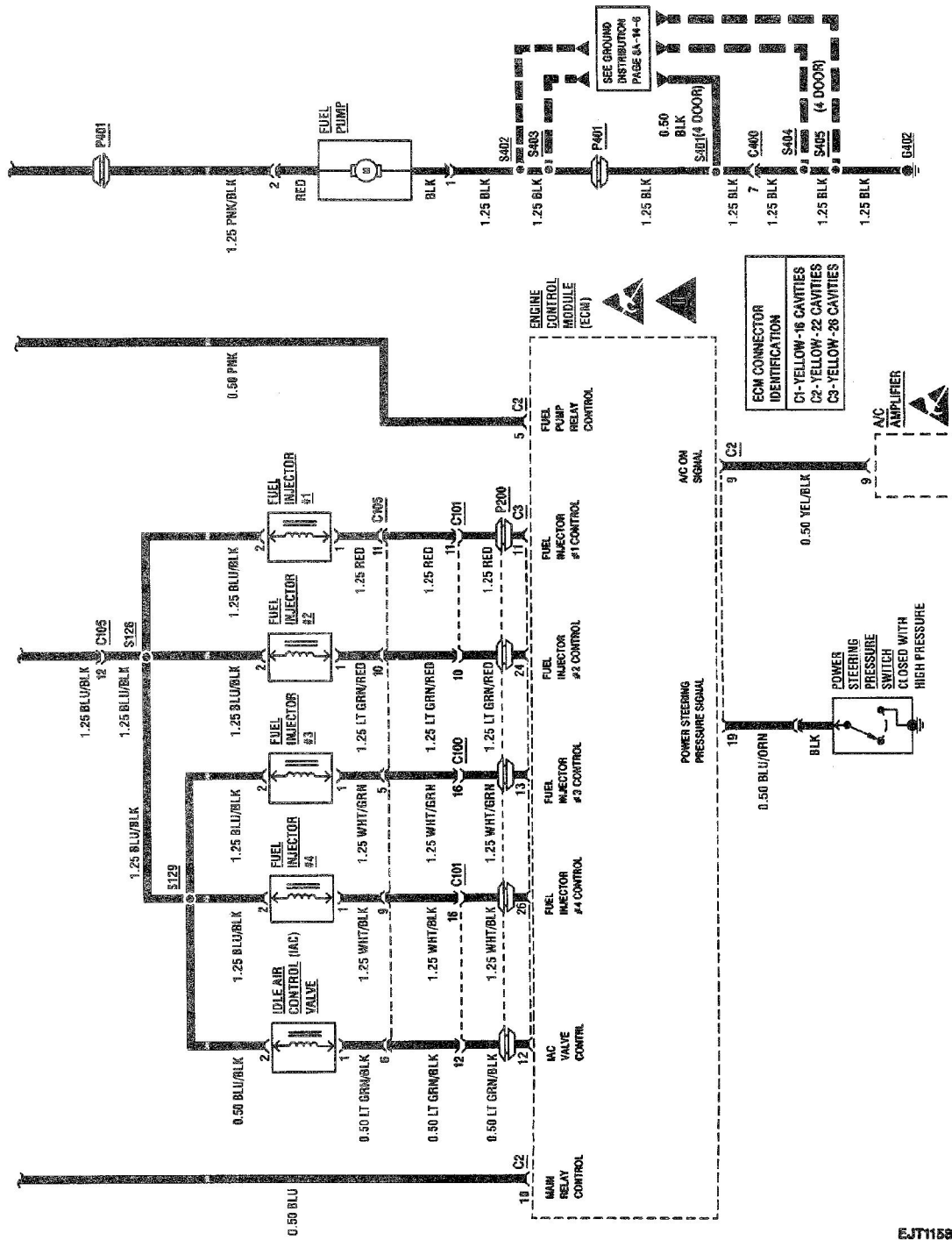




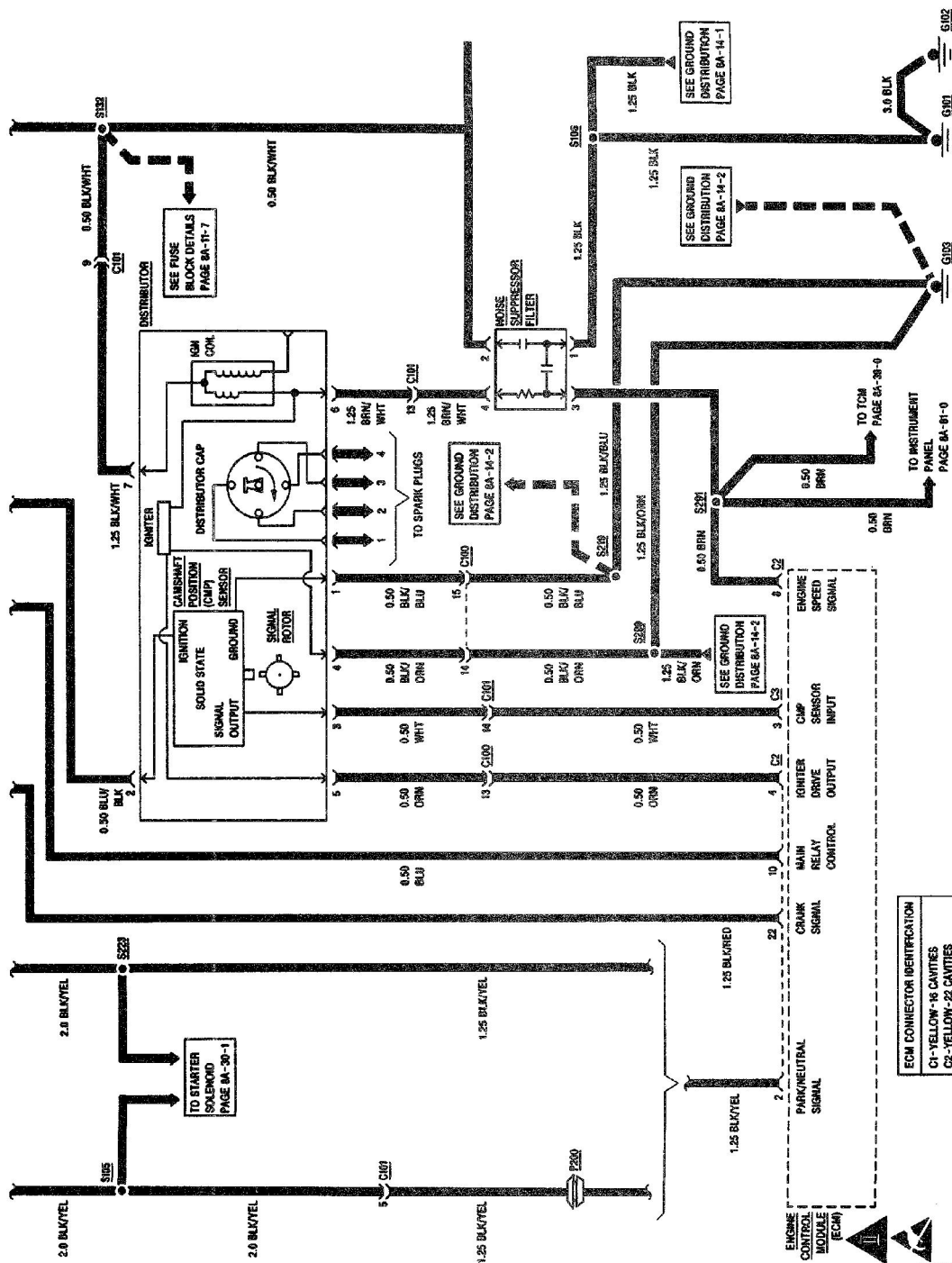
ECM CONNECTOR IDENTIFICATION
C1 - YELLOW - 16 CAVITIES
C2 - YELLOW - 22 CAVITIES
C3 - YELLOW - 26 CAVITIES

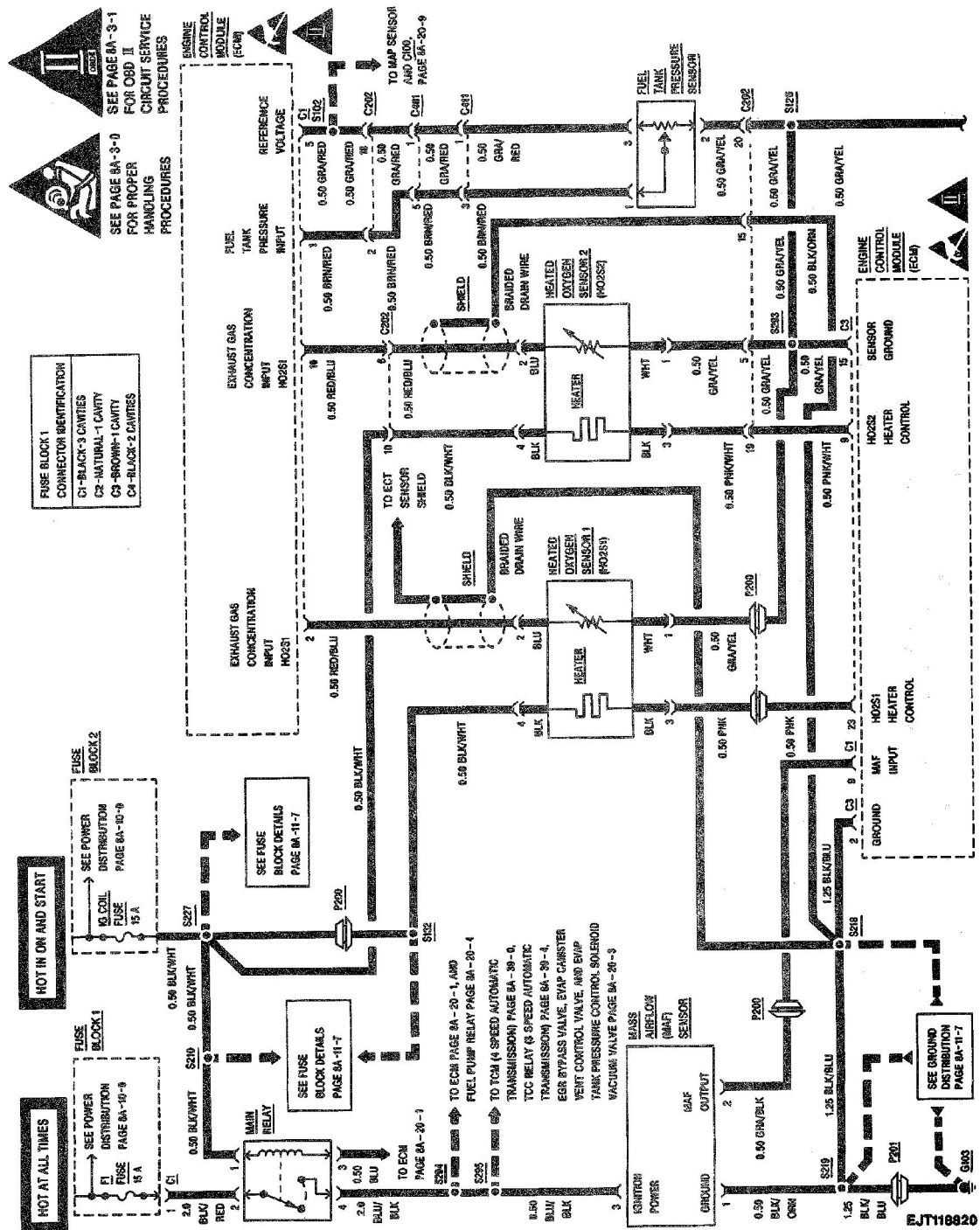
ENGINE CONTROLS: 1.6L FUEL PUMP AND IDLE SPEED CONTROLS









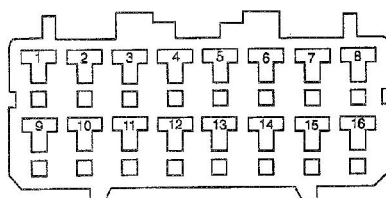




8A - 20 - 10 ELECTRICAL DIAGNOSIS

ENGINE CONTROLS: 1.6L

ENGINE CONTROL MODULE (ECM) CONNECTOR C1



YELLOW

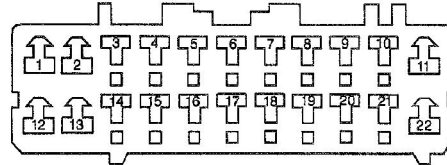
EJT004820

WIRING DETAIL LEGEND

CAVITY	WIRE COLOR	CIRCUIT
1	BRN/RED	Fuel Tank Pressure Input
2	RED/BLU	Exhaust Gas Concentration Input HO2S1
3	YEL/RED	Fuel Level Signal
4	RED/YEL	ECT Sensor Input
5	GRA/RED	Reference Voltage
6	RED/BLK	IAT Sensor Input
7	—	NOT USED
8	—	NOT USED

CAVITY	WIRE COLOR	CIRCUIT
9	GRA/BLK	MAF Sensor Input
10	RED/BLU	Exhaust Gas Concentration Input HO2S2
11	GRA	TP Sensor Input
12	—	NOT USED
13	BRN/YEL	MAP Sensor Input
14	BLU/WHT	Idle Switch Signal
15	—	NOT USED
16	—	NOT USED

**ENGINE CONTROL MODULE
(ECM) CONNECTOR C2**



YELLOW

EJT005820

WIRING DETAIL LEGEND

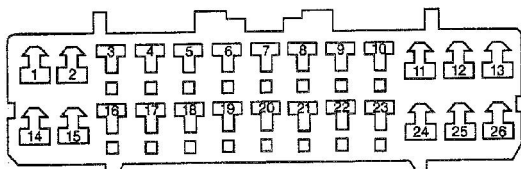
CAVITY	WIRE COLOR	CIRCUIT
1	WHT	Memory Power Input
2	BLK/YEL	Park/Neutral Signal
3	PPL	Duty Check Output
4	ORN	Igniter Drive Output
5	PNK	Fuel Pump Relay Control
6	BLU/RED	Test Switch Signal
7	YEL	Vehicle Speed Input
8	BRN	Engine Speed Signal
9	YEL/BLK	A/C on Signal
10	BLU	Main Relay Control
11	—	NOT USED
12	BLU/BLK	Ignition Power
13	BLU/BLK	Ignition Power

CAVITY	WIRE COLOR	CIRCUIT
14	PPL/YEL	MIL Control
15	LT GRN/WHT	EVAP Solenoid Vacuum Valve Control
16	PNK/GRN	ECT Sensor Signal (4 Speed Automatic Transmission)
	WHT/YEL	TCC Relay Control (3 Speed Automatic Transmission)
17	BLU/YEL	Diagnostic Request Signal
18	GRN/RED	EGR Bypass Valve Control
19	BLU/ORN	Power Steering Pressure Signal
20	PNK/WHT	Idle-up Signal (ABS)
21	—	NOT USED
22	BLK/RED	Crank Signal

8A - 20 - 12 ELECTRICAL DIAGNOSIS

ENGINE CONTROLS: 1.6L

ENGINE CONTROL MODULE (ECM) CONNECTOR C3



YELLOW

EJT006820

WIRING DETAIL LEGEND

CAVITY	WIRE COLOR	CIRCUIT
1	BLK/ORN	Ground
2	BLK/BLU	Ground
3	WHT	CMP Sensor Input
4	—	NOT USED
5	YEL/RED	Fuel Gage Ground
6	GRN/WHT	EVAP Canister Vent Control Valve Control
7	GRN/BLU	EVAP Tank Pressure Control Solenoid Vacuum Valve Control
8	BLU	Serial Data Line (4 speed auto)
9	PNK/WHT	HO2S2 Heater Control
10	PNK/BLU	TP Sensor Signal (4 speed auto)
11	RED	Fuel Injector #1 Control
12	LT GRN/BLK	IAC Valve Control

CAVITY	WIRE COLOR	CIRCUIT
13	WHT/GRN	Fuel Injector #3 Control
14	BLK/GRN	Ground
15	GRA/YEL	Sensor Ground
16	ORN/BLU	Ignition Reference
17	WHT/BLU	Ignition Reference
18	—	NOT USED
19	—	NOT USED
20	—	NOT USED
21	GRN/WHT	Stoplamp Switch Signal (3 speed auto)
22	PPL/GRN	Serial Data Output
23	PNK	HO2S1 Heater Control
24	LT GRN/RED	Fuel Injector #2 Control
25	LT GRN/YEL	EVAP Canister Purge Valve Control
26	WHT/BLK	Fuel Injector #4 Control

COMPONENT	LOCATION	201-PG	FIG.	CONN
Camshaft Position Sensor.....	Inside Distributor, rear of Engine			
Clutch Pedal Position (CPP) Switch (Manual Transmission)	Behind LH I/P, above Engine Control Module (ECM)	06	.....	A
Data Link Connector On-Board Diagnostics II (DLC-OBDII)	LH I/P, left of Center Console on Knee Bolster			50-02
Distributor	Top rear of Engine	04	.....	A
Duty Check Data Link Connector (DLC) 1	RH Engine Compartment, behind RH Headlamp	02	.....	A
Engine Control Module (ECM)	Under LH I/P, left of Steering Column			
C1 (16 Cavities)	Main Harness to ECM, behind I/P left of Steering Column...	06	.....	A..... 20-10
C2 (22 Cavities)	Main Harness to ECM, behind I/P left of Steering Column...	06	.....	A..... 20-11
C3 (26 Cavities)	Main Harness to ECM, behind I/P left of Steering Column...	06	.....	A..... 20-12
Engine Coolant Temperature (ECT) Sending Unit	RH side of Engine in Thermostat Housing.....	05	.....	A
Engine Coolant Temperature (ECT) Sensor	RH side of Engine in Thermostat Housing.....	05	.....	A
Evaporative (EVAP) Canister Purge Valve	RH Front Engine, on Intake Manifold			
Evaporative (EVAP) Canister Vent Control Valve	RH Engine Compartment, near Fuse Block 1			
Evaporative (EVAP) Tank Pressure Control Solenoid Vacuum Valve	RH Engine Compartment, near Fuse Block 1			
Exhaust Gas Recirculation (EGR) Bypass Valve.....	RH front Engine, on Intake Manifold	05	.....	A
Fuel Tank Pressure Sensor	In Fuel Tank			
Fuse Block 1	RH Engine Compartment, front of Battery	01	.....	A
C1 (3 Cavities)	Main Harness to Fuse Block 1, below Fuse Block 1	01	.....	A
Fuse Block 2	Under LH I/P	06	.....	A
Heated Oxygen Sensor 1 (HO2S1)	LH rear of Engine, in Exhaust Manifold			
Heated Oxygen Sensor 2 (HO2S2)	Below Vehicle after Three-Way Catalytic Converter (TWC)			
Ignition Switch	On Steering Column	06	.....	A
Instrument Panel Cluster Assembly	LH I/P	07	.....	A
C2 (10 Terminals)	I/P Harness to I/P Cluster Assembly, behind I/P Cluster Assembly	07	.....	A..... 81-04

8A - 20 - 14 ELECTRICAL DIAGNOSIS

ENGINE CONTROLS: 1.6L

COMPONENT	LOCATION	201-PG	FIG.	CONN
C3 (13 Terminals).....	I/P Harness to I/P Cluster Assembly, behind I/P Cluster Assembly	07.....	A.....	81-05
Intake Air Temperature (IAT) Sensor	RH Front Engine below Throttle Body.....	00.....	B	
Junction Connector 2 (20 Cavities).....	I/P Harness, LH side of I/P, behind Illumination Controller			
Main Relay.....	Center I/P, behind Blower Speed Selector Switch	06.....	A.....	202-15A3
Manifold Absolute Pressure (MAP) Sensor	Rear Engine Compartment, on Bulkhead	01.....	A	
Mass Air Flow (MAF) Sensor..	LH Front Engine Compartment, on Air Cleaner (ACL) Housing.....	00.....	B	
Noise Suppressor Filter	LH Rear Engine Compartment, below Front Wiper Motor.....	04.....	A	
Throttle Position (TP) Sensor....	On Throttle Body	05.....	A	
Transmission Range Switch (Automatic Transmission)	RH side of Transmission.....	14.....	B.....	202-14A1
C1 (2 Cavities) (3-Speed Automatic Transmission).....	RH side of Transmission.....	14.....	B	
C100 (16 Cavities).....	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04.....	A.....	202-01A1
C101 (16 Cavities).....	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04.....	A.....	202-02A1
C102 (6 Cavities) (3-Speed Automatic Transmission).....	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04.....	A	
C102 (4 Cavities) (Manual and 4-Speed Automatic Transmissions).....	Main Harness to Engine Harness, on Bulkhead mounted to Bracket, left of Front Wiper Motor	04.....	A	
C105 (12 Cavities).....	Engine Harness to Injector Harness, RH Front of Engine	05.....	A.....	202-04A1
C106 (10 Cavities) (4-Speed Automatic Transmission).....	Engine Harness to Transmission Harness, RH Rear Engine, under Intake Manifold.....			202-05A1
C200 (22 Cavities).....	Main Harness to I/P Harness, LH I/P near Fuse Block 2.....	06.....	A.....	202-06A1
C202 (22 Cavities).....	Main Harness to Floor Harness, LH I/P near G200.....	06.....	A.....	202-08A1
C401 (12 Cavities) (4-Door).....	Floor Harness to Rear Lamp Harness, behind LH Rear Wheelhousing	10.....	A.....	202-12A1
C411 (3 Cavities) (4-Door).....	Rear Lamp Harness to Fuel Pressure Sensor Jumper Harness, under rear of Vehicle above Fuel Tank			
G101.....	On Bulkhead behind Distributor	04.....	A	
G102.....	RH Rear of Engine near Distributor			
G103.....	RH Rear Engine Compartment mounted to Intake Manifold.....	02.....	A	

COMPONENT	LOCATION	201-PG	FIG.	CONN
G200.....	Behind LH I/P, above Fuse Block 2	06	.....	A
P200	LH Engine Compartment on Bulkhead, near Brake Master Cylinder	04	.....	A
P201	RH Rear Engine Compartment on Bulkhead, near Battery	01	.....	A
S105	Engine Harness, at Bulkhead near Distributor			
S106	Main Harness, at Bulkhead near Ignition Coil			
S119.....	Main Harness, behind LH Headlamps			
S121	Injector Harness, near Fuel Injector No. 4 breakout			
S122	Injector Harness, near Fuel Injector breakout			
S125	Engine Accessory Harness, near Starter Motor breakout			
S126	Engine Accessory Harness, near Starter Motor breakout			
S132	Main Harness, at Bulkhead near Front Wiper Motor			
S201	I/P Harness, near Cruise Control On/Off Switch breakout			
S205	I/P Harness, behind center of I/P			
S210	Main Harness, at Bulkhead near Front Wiper Motor			
S212	Main Harness, left of Steering Column			
S215	Main Harness, near Engine Control Module (ECM) connector C2 breakout			
S218	Main Harness, near Engine Control Module (ECM) connector C3			
S219	Main Harness, at C204 connector breakout			
S220	Main Harness, near I/P left of Steering Column			
S223	Main Harness, near Fuse Block 2			
S224 (Automatic Transmission)	Main Harness, near I/P left of Steering Column			
S227	Main Harness, near Fuse Block 2			
S232	Main Harness, RH side of I/P, near Blower Speed Selector Switch			
S237	Main Harness, near Engine Control Module (ECM) connector C3 connector breakout			
S262	Main Harness, left of Steering Column			
S291	Main Harness, near Engine Control Module (ECM)			
S293	Main Harness, at C204 connector breakout			
S294	Main Harness, near Engine Control Module (ECM)			
S295	Main Harness, near Fuse Block 2			
S296	Main Harness, near Engine Control Module (ECM)			
S299	Main Harness, at Blower Motor connector breakout			

8A - 20 - 16 ELECTRICAL DIAGNOSIS

ENGINE CONTROLS: 1.6L

SYSTEM DIAGNOSIS

For system diagnosis, diagnostic trouble codes (DTCs) and service information regarding the Engine Control System, refer to SECTION 6E.

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