SECTION: 9E

INSTRUMENTATION/DRIVER INFORMATION

CAUTION: Disconnect the negative battery cable before removing or installing any electrical unit or when a tool or equipment could easily come in contact with exposed electrical terminals. Disconnecting this cable will help prevent personal injury and damage to the vehicle. The ignition must also be in LOCK unless otherwise noted.

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SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Application	N•m	Lb-Ft	Lb-In
Ashtray Housing Screw	2.5	-	22
Chime Module Screws	4	-	35
Cup Holder Screws	2.5	-	22
Digital Clock Screws	4		35
Fuel Gauge Screws	2.5	_	22
Glove Box Screws	5.5	_	49
Instrument Cluster Screws	4	-	35
Instrument Panel-to-Body Bolts	22	16	-
Instrument Panel-to-Bulk-head Nuts	10	-	89
Instrument Panel-to-Floor Bolts	22	16	_
Instrument Panel–to–Heat- er Air Distribution Case Screw	2	-	18
Instrument Panel-to-Pedal Assembly Bolts	22	16	-
Speedometer/Odometer Screws	2.5	-	22
Steering Column Bolts	22	16	_
Steering Column Nuts	22	16	_
Tachometer Screws	2.5	-	22
Temperature Gauge Screws	2.5	-	22
Ticket Holder Screws	4		35

INSTRUMENT CLUSTER INDICATOR LAMPS SPECIFICATIONS

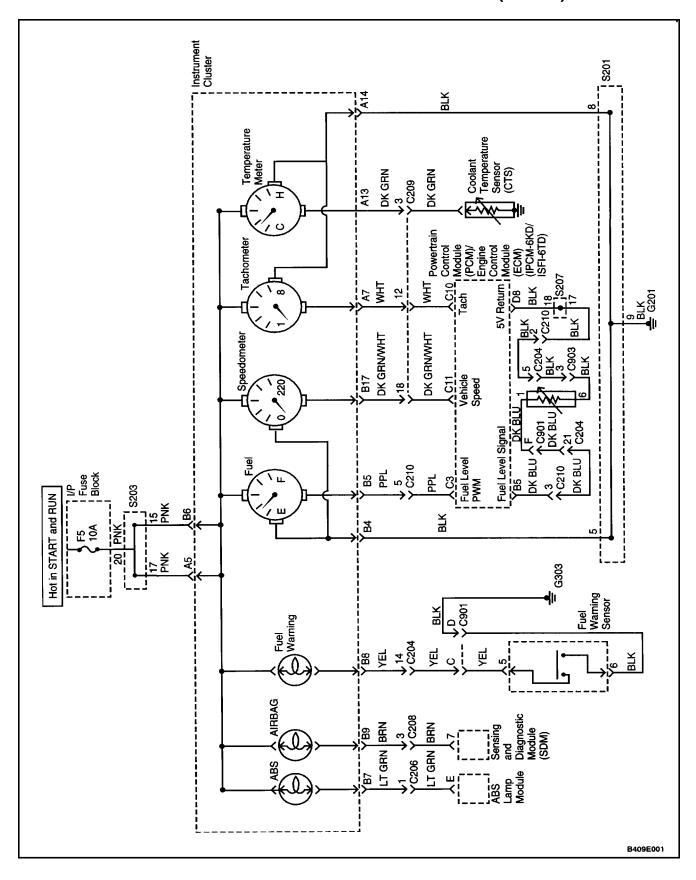
Indicator Lamp	Color	Bulb
ABS Warning	Amber	14V1.4W
Airbag Warning	Red	14V1.4W
Automatic Transmission Shift Posi-	Green	14V1.4W
tion Indicator	Red	14V1.4W
Park	Green	14V1.4W
Reverse	Green	14V1.4W
Neutral	Green	14V1.4W
Drive	Green	14V1.4W
3	Green	14V1.4W
2		
1		
Battery Charge Indicator	Red	14V1.4W
Door Opening Warning	Red	14V1.4W

INSTRUMENTATION/DRIVER INFORMATION 9E-3

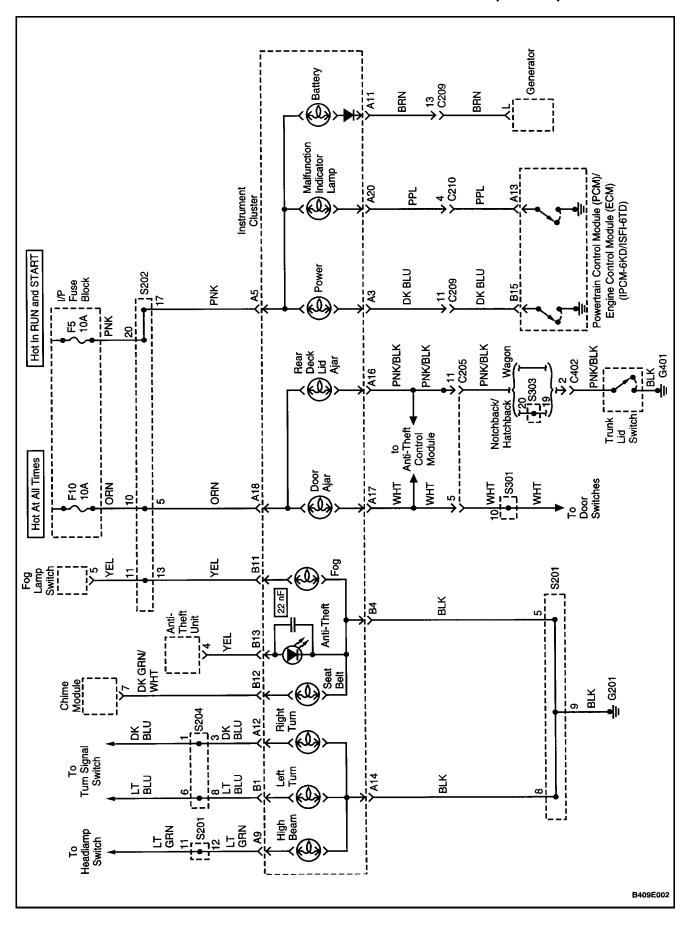
Indicator Lamp	Color	Bulb
Fasten Seat Belt Warning	Red	14V1.4W
Front Fog Lamp Indicator	Green	14V1.4W
High Beam Indicator	Blue	14V1.4W
Low Fuel Level Warning	Amber	14V 3W
Oil Pressure Warning	Red	14V 1.4W
Parking Brake Indicator and Brake Fluid Warning	Red	14V 1.4W
Service Engine Soon Warning	Amber	14V 1.4W
Transaxle Power Mode Indicator	Amber	14V 1.4W
Trunk Open Warning	Amber	14V 1.4W
Turn Signal Indicators	Green	14V 1.4W

SCHEMATIC AND ROUTING DIAGRAMS

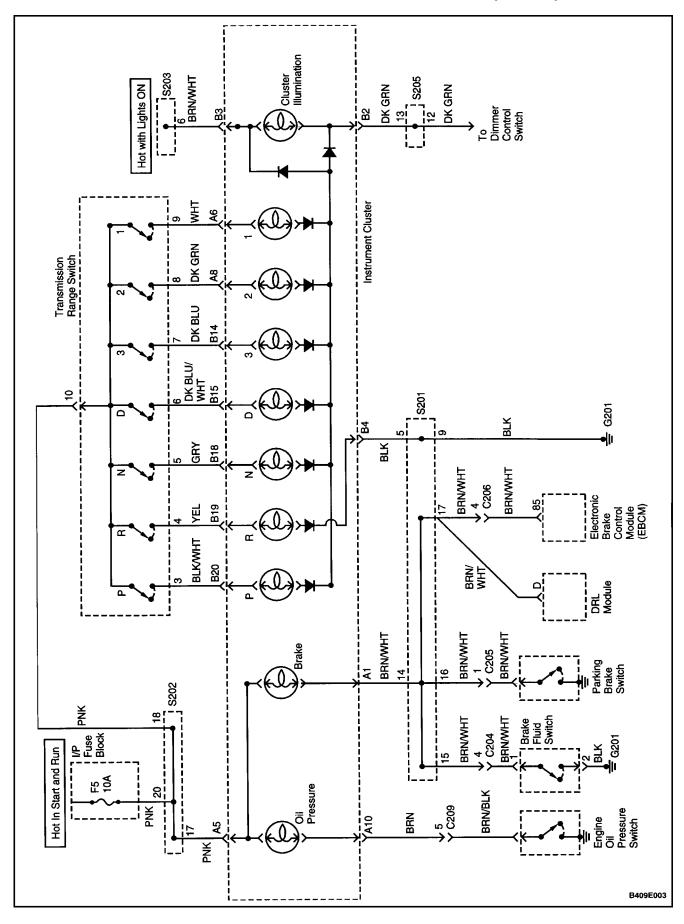
INSTRUMENT PANEL WIRING HARNESS (1 OF 3)



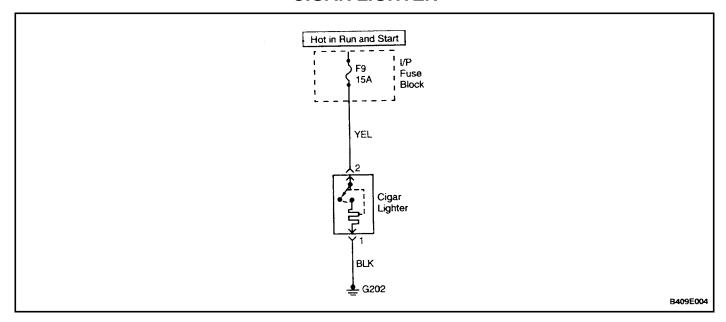
INSTRUMENT PANEL WIRING HARNESS (2 OF 3)



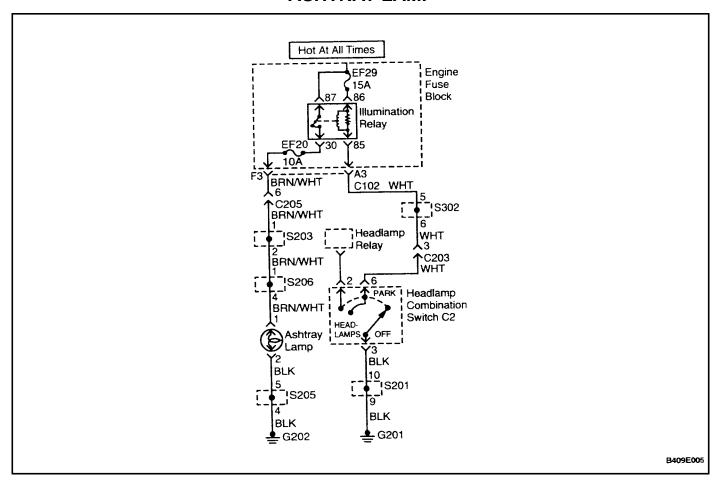
INSTRUMENT PANEL WIRING HARNESS (3 OF 3)



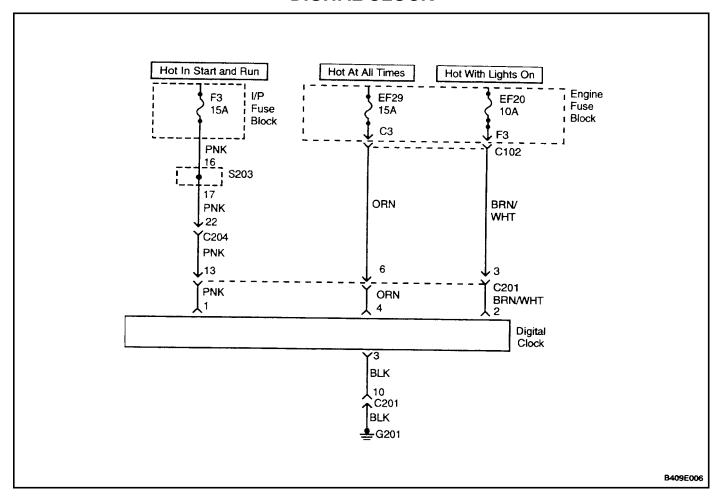
CIGAR LIGHTER



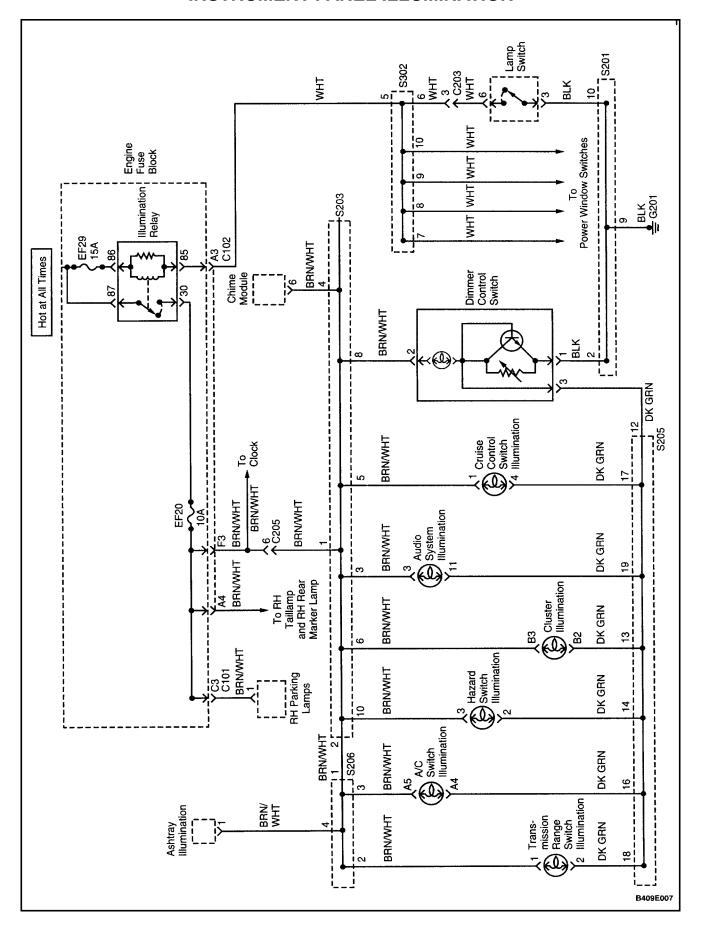
ASHTRAY LAMP



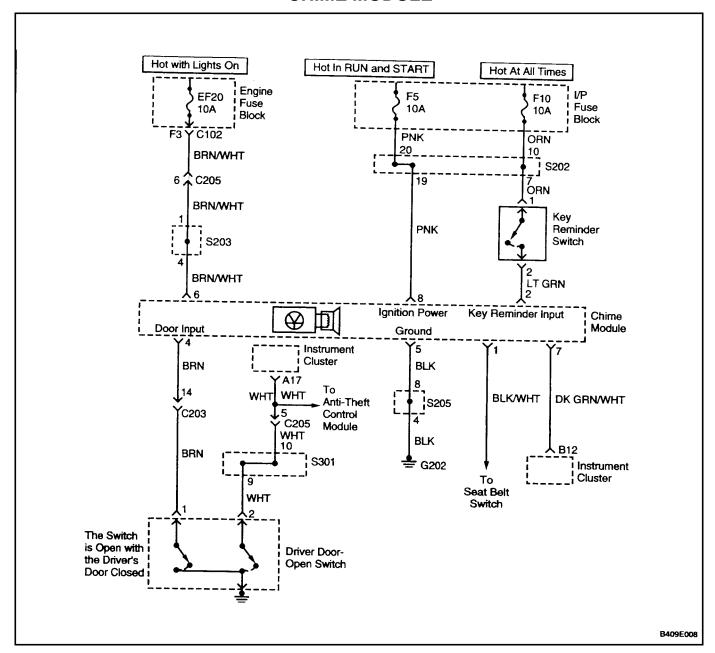
DIGITAL CLOCK



INSTRUMENT PANEL ILLUMINATION



CHIME MODULE



DIAGNOSIS

CIGAR LIGHTER

Cigar Lighter Inoperative

Step	Action	Value(s)	Yes	No
1	Check fuse EF23. Is the fuse blown?		Go to Step 2	Go to Step 3
2	 Check for a short circuit and repair it, if necessary. Replace the fuse. Is the repair complete? 		System OK	
3	Use a voltmeter to check for voltage at fuse EF23. Does the battery voltage available at the fuse EF14 match the value specified?	11–14 v	Go to Step 5	Go to Step 4
4	Repair the open power supply circuit for fuse EF23. Is the repair complete?		System OK	
5	 Remove the electrical connector from the back of the cigar lighter. Use a voltmeter to check the voltage at the ORN wire. Does the battery voltage available at the ORN wire match the value specified? 	11–14 v	Go to Step 7	Go to Step 6
6	Repair the open circuit between the fuse EF23 and the cigar lighter. Is the repair complete?		System OK	
7	Connect the voltmeter between the ORN and the BLK wires at the cigar lighter connector. Does the battery voltage match the value specified?	11–14 v	Go to Step 9	Go to Step 8
8	Repair the open ground circuit. Is the repair complete?		System OK	
9	Replace the cigar lighter. Is the repair complete?		System OK	

ASHTRAY LAMP

Ashtray Lamp Is Inoperative

Step	Action	Value(s)	Yes	No
1	 Turn the headlamps ON. Turn the dimmer control to the brightest position. Check the instrument cluster lamps. Do the instrument cluster lamps work? 		Go to Step 3	Go to Step 2
2	Repair the instrument cluster lamps. Is the repair complete?		Go to Step 3	System OK

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Step	Action	Value(s)	Yes	No
3	 Remove the ashtray lamp from its socket. Turn the headlamps ON. Turn the dimmer control to the brightest position. Check the voltage at the ashtray lamp positive terminal (BRN/WHT wire). Is the voltage equal to the specified value? 	11–14 v	Go to Step 5	Go to Step 4
4	Repair the open circuit between fuse EF20 and the ashtray lamp. Is the repair complete?		System OK	
5	Connect an ohmmeter between ground and the negative terminal at the ashtray lamp. Is the resistance equal to the specified value?	≈ 0 Ω	Go to Step 7	Go to Step 6
6	Repair the open ground circuit for the ashtray lamp. Is the repair complete?		System OK	
7	Replace the ashtray lamp bulb. Is the repair complete?		System OK	

DIGITAL CLOCK

Digital Clock Inoperative

Step	Action	Value(s)	Yes	No
1	Is either of the fuses F3 or EF29 blown?		Go to Step 2	Go to Step 3
2	 Check for a short circuit and repair it, if necessary. Replace the blown fuses. Is the repair complete? 		System OK	
3	 Turn the ignition ON. Use a voltmeter to check battery voltage available at fuses F3 and EF29. Does the voltmeter indicate the value specified? 	11–14 v	Go to Step 5	Go to Step 4
4	Repair the open power supply circuit for the fuse. Is the repair complete?		System OK	
5	Use a voltmeter to check the battery voltage available at the clock connector terminal 4. Does the voltmeter indicate the value specified?	11–14 v	Go to Step 7	Go to Step 6
6	Repair the open circuit between the clock connector terminal 4 and the fuse EF29. Is the repair complete?		System OK	
7	Turn the ignition ON. Is battery voltage available at the clock connector terminal 1?		Go to Step 9	Go to Step 8
8	Repair the open circuit between the clock connector terminal 1 and the fuse F3. Is the repair complete?		System OK	
9	Check continuity between the clock connector terminal 3 and ground. Does the multimeter indicate the value specified?	≈ 0 Ω	Go to Step 10	Go to Step 11

Step	Action	Value(s)	Yes	No
10	Replace the clock. Is the repair complete?		System OK	
11	Repair the open ground circuit between the clock connector terminal 3 and ground G201. Is the repair complete?		System OK	

INSTRUMENT PANEL ILLUMINATION

Instrument Panel Illumination Does Not Work

Step	Action	Value(s)	Yes	No
1	Test the parking lamps. Do the parking lamps work?		Go to Step 3	Go to Step 2
2	Repair the parking lamps. Is the repair complete? —		Go to Step 3	System OK
3	Check fuse EF20. Is fuse EF20 blown?		Go to Step 4	Go to Step 5
4	 Check for a short circuit and repair it if necessary. Replace fuse EF20. Is the repair complete? 		System OK	
5	Turn the parking lamps ON. Check the voltage at fuse EF20. Does the voltmeter indicate the specified value?	11–14 v	Go to Step 7	Go to Step 6
6	Repair the power supply for fuse EF20. Is the repair complete?		System OK	
7	 Turn the parking lamps ON. Temporarily disconnect any of the instrument panel illumination lamps. Check the voltage at the positive terminal (BRN/WHT wire) of any of the illumination lamps. Does the voltmeter indicate the specified value? 	11 – 14 v	Go to Step 9	Go to Step 8
8	Repair the open circuit between fuse EF20 and the instrument panel illumination lamps. Is the repair complete?		System OK	
9	 Disconnect the dimmer control switch. Turn the parking lamps ON. Check the voltage at the DK GRN wire on the top row of the dimmer connector terminals. Does the voltmeter indicate the specified value? 	11 – 14 v	Go to Step 11	Go to Step 10
10	Repair the open circuit between the dimmer control switch and the instrument panel illumination lamps. Is the repair complete?		System OK	
11	With the dimmer control switch disconnected, use an ohmmeter to check the resistance between ground and the BLK wire at the dimmer control switch connector. Does the ohmmeter indicate the specified value?	≈ 0 Ω	Go to Step 13	Go to Step 12

Step	Action	Value(s)	Yes	No
12	Repair the open circuit between ground and the BLK wire at the dimmer control switch connector. Is the repair complete?		System OK	
13	Replace the dimmer control switch. Is the repair complete?		System OK	

SPEEDOMETER (CABLELESS)

Speedometer Inoperative, Other Gauges and Warning Lamps Are OK

Step	Action	Value(s)	Yes	No
1	Connect a scan tool. Check for engine control Diagnostic Trouble Codes (DTCs). Is a vehicle speed sensor (VSS) DTC set?		Go to Section 1F, Engine Controls	Go to Step 2
2	 Turn the ignition OFF. Remove the instrument cluster. Use an ohmmeter to check the continuity of the wire between instrument cluster connector terminal B17 and terminal C11 of the powertrain control module (PCM)/engine control module (ECM). Is an open circuit detected? 		Go to Step 3	Go to Step 4
3	Repair the open circuit between instrument cluster connector terminal B17 and the PCM/ECM. Is the repair complete?		System OK	
4	Replace the speedometer. Is the repair complete?		System OK	

TACHOMETER

Tachometer Does Not Work

Test Description

The number below refers to a step number in the diag nostic table.

3. If the coolant temperature gauge works, skip Steps 3 to 10 and go directly to Step 11. The coolant tem perature gauge uses the same fuse and ground as the tachometer.

Step	Action	Value(s)	Yes	No
1	Check the engine Diagnostic Trouble Codes (DTCs). Are there any current vehicle speed sensor (VSS) DTCs?		Go to Step 2	Go to Step 3
2	Diagnose and repair any VSS DTCs. Are the VSS DTCs cleared?		Go to Step 3	
3	Check fuse F5. Is fuse F5 blown?		Go to Step 5	Go to Step 4
4	 Check for a short circuit and repair it, if necessary. Replace fuse F5. Is the repair complete? 		System OK	

Step	Action	Value(s)	Yes	No
5	 Turn the ignition ON. Check the voltage at fuse F5. Is the voltage equal to the specified value? 		Go to Step 7	Go to Step 6
6	Repair the power supply for fuse F5. Is the repair complete?		System OK	
7	 Disconnect the instrument cluster connector. Turn the ignition ON. Check the voltage at instrument cluster connector terminal A5. Is the voltage equal to the specified value? 		Go to Step 9	Go to Step 8
8	Repair the open circuit between fuse F5 and instrument cluster connector terminal A5. Is the repair complete?		System OK	
9	With the instrument cluster disconnected, use an ohmmeter to check the resistance between instrument cluster connector terminal A14 and ground. Is the resistance equal to the specified value?	≈ 0 Ω	Go to Step 11	Go to Step 10
10	Repair the open circuit between ground and instrument cluster connector terminal A14. Is the repair complete?		System OK	
11	Check for a defect on the instrument cluster printed circuit. Is the printed circuit defective?		Go to Step 12	Go to Step 13
12	Replace the instrument cluster. Is the repair complete?		System OK	
13	With the instrument cluster disconnected, use an ohmmeter to check for an open circuit between terminal C10 of the powertrain control module (PCM)/engine control module (ECM) and instrument cluster connector terminal A7. Does the ohmmeter indicate the specified value?	≈ 0 Ω	Go to Step 15	Go to Step 14
14	Repair the open circuit between the instrument cluster connector terminal A7 and the PCM/ECM. Is the repair complete?		System OK	
15	Replace the tachometer. Is the repair complete?		System OK	Go to Step 16
16	Replace the ECM. Is the repair complete?		System OK	

FUEL GAUGE

Fuel Gauge Always Shows Full or Always Shows Empty

Step	Action	Value(s)	Yes	No
1	Turn the ignition ON. Observe the fuel gauge. Does the fuel gauge always indicate a full fuel tank even though it has been established that the tank is not full?	-	Go to Step 2	Go to Step 7
2	 Turn the ignition OFF. Disconnect the fuel level sensor. Turn the ignition ON. Does the fuel gauge change to empty? 		Go to Step 3	Go to Step 4
3	Replace the fuel level sensor. Is the repair complete?		System OK	
4	 Turn the ignition OFF. Disconnect the instrument cluster connector B. Turn the ignition ON. Does the fuel gauge now indicate an empty fuel tank? 		Go to Step 5	Go to Step 6
5	Repair the short to ground in the PPL wire between the instrument cluster connector and the fuel tank sending unit. Is the repair complete?		System OK	
6	Replace the fuel gauge. Is the repair complete?		System OK	
7	 If the fuel tank shows empty even though it has been established that the tank is not empty, disconnect the fuel tank sending unit electrical connector. Turn the ignition ON. Check the voltage at the fuel tank sending unit connector terminal 1. 	11 – 14 v	Go to Step 8	Go to Step 11
	Does the voltmeter indicate the specified value?		0 - 1 - 0 - 10	0 - 1 - 01 - 0
8	 Disconnect the fuel level sensor electrical connector. Use an ohmmeter to check the continuity of the fuel level sensor. Is there continuity between the fuel level sensor terminals? 	-	Go to Step 10	Go to Step 9
9	minals? Replace the fuel level sensor. Is the repair complete?	_	System OK	_
10	Repair the open circuit between terminal 6 of the fuel level sensor and terminal D8 of the powertrain control module (PCM)/engine control module (ECM) connector. Is the repair complete?		System OK	
11	With the ignition ON, use a voltmeter to back probe terminal B5 of the PCM/ECM connector. Is the voltage equal to the specified value?	11–14 v	Go to Step 12	Go to Step 13

Step	Action	Value(s)	Yes	No
12	Repair the open circuit between terminal B5 of the PCM/ECM and fuel level sensor connector 1. Is the repair complete?	-	System OK	_
13	With the ignition ON, use a voltmeter to back probe terminal C3 of the PCM/ECM connector. Is the voltage equal to the specified value?	11–14 v	Go to Step 15	Go to Step 14
14	Repair the open circuit between terminal C3 of the CM/ECM connector and terminal B5 of the instrument cluster. Is the repair complete?	-	System OK	_
15	Replace the PCM/ECM. Is the repair complete?	-	System OK	-

TEMPERATURE GAUGE

Diagnostic Aids

For full scale readings, the gauge may be indicating the correct coolant temperature. Problems not covered by this diagnostic table include the following:

- Low coolant level.
- Improper coolant mixture.
- Coolant leaks.
- Faulty coolant pump.
- Faulty thermostat.
- Gasket failure.
- Lack of lubrication.
- Lack of cooling fan operation.

This table covers problems with the gauge circuit, the

gauge, and the sending unit, but not problems which cause actual overheating or underheating.

Test Description

The numbers below refer to steps on the diagnostic table.

- The engine coolant temperature (ECT) sensor for the powertrain control module (PCM)/engine control module (ECM) and the coolant temperature sensor (CTS) are close together on the engine block. Refer to the schematic to determine the correct wire color to verify testing of the correct component.
- The ECT for the PCM/ECM and the CTS unit are close together on the engine block. Refer to the schematic to determine the correct wire color to verify testing of the correct component.

Temperature Gauge Always Indicates Full Scale Hot Or Full Scale Cold, Other Gauges Are OK

Step	Action	Value(s)	Yes	No
1	 Allow the engine to cool to room temperature. Turn the ignition ON. 		Go to Step 2	Go to Step 7
	Does the temperature gauge always read at the high end of the scale?			
2	Disconnect the coolant temperature sensor (CTS) electrical connector. Does the temperature gauge indicator point to the low end of the scale?		Go to Step 3	Go to Step 4
3	Replace the CTS. Is the repair complete?		System OK	
4	 Turn the ignition OFF. Disconnect the instrument cluster connector A. Turn the ignition ON. Does the temperature indicator now point to the low end of the scale? 		Go to Step 5	Go to Step 6
5	Repair the short to ground in the DK GRN wire between instrument cluster connector A and the CTS. Is the repair complete?	-	System OK	-

Step	Action	Value(s)	Yes	No
6	Replace the temperature gauge. Is the repair complete?		System OK	
7	 If the temperature gauge always reads at the low end of the scale, disconnect the coolant temperature sending unit. Turn the ignition ON. Check the voltage at the coolant temperature sending unit connector. 	11 – 14 v	Go to Step 10	Go to Step 8
	Is the voltage equal to the specified value?			
8	Use an ohmmeter to check for an open circuit between the CTS and the temperature gauge. Is there an open circuit?		Go to Step 9	Go to Step 10
9	Repair the open circuit between the temperature sending unit and temperature gauge. Is the repair complete?		System OK	
10	 Disconnect the CTS. Connect a jumper wire between the coolant temperature sending unit connector and ground. Turn the ignition ON. Does the temperature gauge move to the high end of the scale? 	_	Go to Step 3	Go to Step 6

INSTRUMENT CLUSTER INDICATOR LAMPS

Diagnostic Aids

This table covers lamps powered by fuses F5 and F10: door ajar, rear deck lid ajar, service engine soon, oil pressure, battery, power, ABS, AIR BAG, low fuel warning. The ground for each circuit is provided by the component being monitored by the indicator lamp.

Instrument Cluster Indicator Lamps Do Not Operate

Step	Action	Value(s)	Yes	No
1	Check fuses F5 and F10. Is either fuse blown?		Go to Step 2	Go to Step 3
2	 Check for a short circuit and repair it if necessary. Replace the blown fuse. Is the repair complete? 		System OK	
3	 Turn the ignition ON. Check the voltage at fuses F5 and F10. Is the voltage equal to the specified value? 	11 – 14 v	Go to Step 5	Go to Step 4
4	Repair the open power supply circuit for F5 and/or F10. Is the repair complete?		System OK	
5	Check the cluster indicators. Is the problem associated with all of the cluster indicators?		Go to Step 8	Go to Step 6

Step	Action	Value(s)	Yes	No
6	 If the problem is associated with only a single cluster indicator rather than all of the cluster indicators, locate the component (switch, sending unit, etc.) which provides the ground for the cluster indicator. At the component, disconnect the wire from the instrument cluster indicator. Connect a jumper wire between ground and the disconnected wire at the component. Turn the ignition ON. Does the cluster indicator turn ON? 		Go to Step 7	Go to Step 10
7	Replace the faulty component (switch, sending unit, etc.). Is the repair complete?		System OK	
8	Check the connectors at the rear of the instrument cluster. Are the connectors correctly attached?		Go to Step 10	Go to Step 9
9	Attach the connectors correctly. Is the repair complete?		System OK	
10	 Disconnect the instrument cluster connectors. Turn the ignition ON. 3. Check the voltage at instrument cluster connector terminals A5, A18, and B6. (Consult the schematic. It may not be necessary to check all three terminals, depending on which circuits are being checked.) Is the voltage equal to the specified value? 	11 – 14 v	Go to Step 12	Go to Step 11
11	Repair the open circuit between the fuses and the instrument cluster. Is the repair complete?		System OK	
12	Check the warning lamp bulbs. Are the bulbs OK?		Go to Step 14	Go to Step 13
13	 Replace any defective warning lamp bulbs. If all bulbs are defective, check the charging system to make sure that the generator is not overcharging. Refer to Section 1E, Electrical System. If a problem is found, repair the charging system. Is the repair complete? 		System OK	
14	Use an ohmmeter to check for an open wire between the instrument cluster connector and the connector at the component which is monitored by the indicator lamp. Is an open circuit detected?		Go to Step 15	Go to Step 16
15	Repair the open circuit between the instrument cluster and the component monitored by the indicator lamp. Is the repair complete?		System OK	
16	Replace the instrument cluster. Is the repair complete?		System OK	

CHIME MODULE

Door-Open Chime Does Not Operate

Step	Action	Value(s)	Yes	No
1	Check the chime module connector to make sure it is connected properly. Is the connector disconnected or partially disconnected?		Go to Step 2	Go to Step 3
2	Connect the electrical connector for the chime module. Is the repair complete?		System OK	
3	Check fuse F5. Is fuse F5 blown?	_	Go to Step 4	Go to Step 5
4	 Check for a short circuit and repair it, if necessary. Replace the fuse. Is the repair complete? 		System OK	
5	 Turn the ignition ON. Check the voltage at fuse F5. Is the voltage equal to the specified value? 	11–14 v	Go to Step 7	Go to Step 6
6	Repair the power supply circuit for fuse F5. Is the repair complete?		System OK	
7	 Disconnect the chime module. Turn the ignition ON. Check the voltage at terminal 8 of the chime module connector. 	11–14 v	Go to Step 9	Go to Step 8
8	Is the voltage equal to the specified value? Repair the open ground circuit between ground and terminal 5 of the chime module connector. Is the repair complete?		System OK	
9	With the chime module disconnected, use an ohmmeter to check the continuity between terminal 5 of the chime module connector and ground. If the continuity equal to the specified value?	≈ 0 Ω	Go to Step 11	Go to Step 10
10	Repair the open circuit between terminal 5 of the chime module connector and ground. Is the repair complete?		System OK	
11	 Disconnect the chime module connector. Make sure that the driver's side door is open. Use an ohmmeter to check continuity between ground and terminal 4 of the chime module. Is the continuity equal to the specified value? 		System OK	
12	Replace the chime module. Is the repair complete?		System OK	
13	 Disconnect the front door contact switch. Use an ohmmeter to check the continuity between the door contact switch and terminal 4 of the chime module. Is the continuity equal to the specified value? 	≈ 0Ω	Go to Step 15	Go to Step 14

Step	Action	Value(s)	Yes	No
14	Repair the open circuit between the door contact switch and terminal 4 of the chime module.		System OK	
15	Replace the door contact switch. Is the repair complete?		System OK	

Key Reminder Chime Inoperative

Step	Action	Value(s)	Yes	No
1	Check the chime module connector to make sure it is connected properly. Is the connector disconnected or partially disconnected?		Go to Step 2	Go to Step 3
2	Connect the electrical connector for the chime module. Is the repair complete?		System OK	
3	Check fuse F10. Is fuse F10 blown?		Go to Step 4	Go to Step 5
4	 Check for a short circuit and repair it, if necessary. Replace the fuse. Is the repair complete? 		System OK	
5	Turn the ignition ON. Check the voltage at fuse F10. Is the voltage equal to the specified value?	11–14 v	Go to Step 7	Go to Step 6
6	Repair the power supply circuit for fuse F10. Is the repair complete?		System OK	
7	Disconnect the chime module. Check the voltage at terminal 2 of the chime module connector. Is the voltage equal the to specified value?	11–14 v	Go to Step 13	Go to Step 8
8	 Disconnect the key reminder switch. Use an ohmmeter to check the continuity between the key reminder switch and fuse F10. Is the continuity equal to the specified value? 	≈ 0 Ω	Go to Step 10	Go to Step 9
9	Repair the open circuit between the key reminder switch and fuse F10.		Systam OK	
10	With the key reminder switch and the chime module disconnected, check the continuity between the key reminder switch and terminal 2 of the chime module connector. Is the voltage equal to the specified value?	≈ 0 Ω	Go to Step 12	Go to Step 11
11	Repair the open circuit between the key reminder switch and terminal 2 of the chime module connector.		System OK	
12	Replace the key reminder switch. Is the repair complete?		System OK	
13	With the chime module disconnected, use an ohmmeter to check continuity between terminal 5 of the chime module connector and ground. Is the continuity equal to the specified value?	≈ 0 Ω	Go to Step 15	Go to Step 14

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Step	Action	Value(s)	Yes	No
14	Repair the open circuit between terminal 5 of the chime module connector and ground. Is the repair complete?		System OK	
15	Replace the chime module. Is the repair complete?		System OK	