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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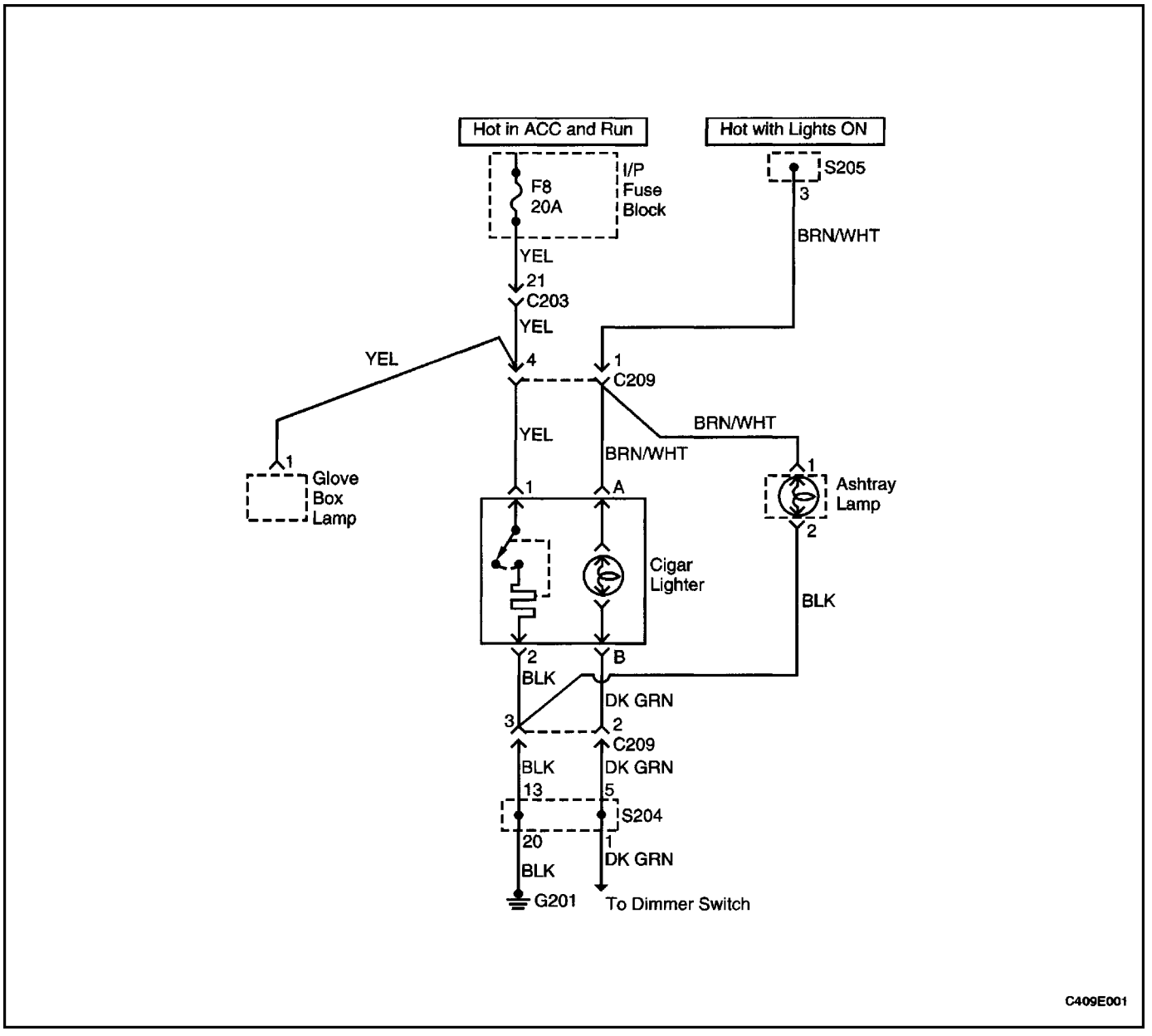
INSTRUMENT CLUSTER INDICATOR LAMPS SPECIFICATIONS

Indicator Lamp	Color	Bulb
ABS Warning	Amber	14 v 1.4 W
Airbag Warning	Red	14 v 1.4 W
Automatic Transaxle Shift Position Indicators Park Reverse Neutral Drive 3 L	Green Red Green Green Green Green	14 v 1.4 W 14 v 1.4 W 14 v 1.4 W 14 v 1.4 W 14 v 1.4 W 14 v 1.4 W
Battery Charge Indicator	Red	14 v 1.4 W
Cruise Control Indicator	Green	14 v 1.4 W
Daytime Running Lamps	Amber	14 v 1.4 W
Door Open Warning	Red	14 v 1.4 W
Fasten Seat Belt Warning	Red	14 v 1.4 W
Fog Lamp Indicator	Green	14 v 1.4 W
High Beam Indicator	Blue	14 v 1.4 W
Low Fuel Level Warning	Amber	14 v 3 W
Luggage Compartment Open Warning	Amber	14 v 1.4 W
Oil Pressure Warning	Red	14 v 1.4 W
Parking Brake Indicator and Brake Fluid Warning	Red	14 v 1.4 W
Malfunction Indicator	Amber	14 v 1.4 W
Traction Control System Warning	Amber	14 v 1.4 W
Transaxle Power Mode Indicator	Amber	14 v 1.4 W
Transaxle Hold Mode Indicator	Amber	14 v 1.4 W
Turn Signal Indicators	Green	14 v 1.4 W

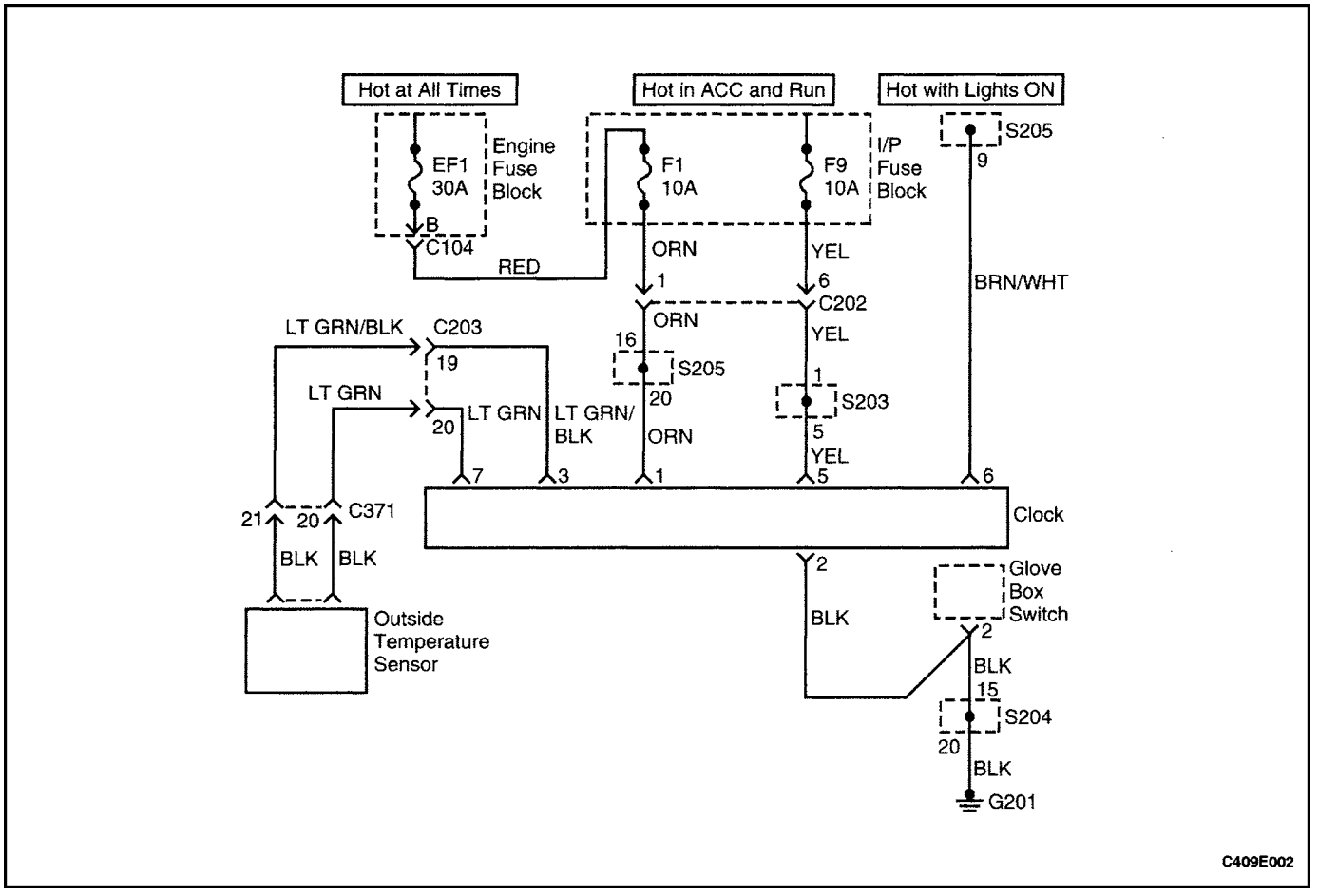
DIAGNOSIS


Hot in ACC and Run
Hot with Lights ON
I/P
Fuse
Block
F8
20A
S205
3
BRN/WHT
YEL
21
C203
YEL
YEL
4
1
C209
BRN/WHT
YEL
BRN/WHT
1
Glove
Box
Lamp
1
A
1
Ashtray
Lamp
2
Cigar
Lighter
BLK
2
B
BLK
DK GRN
3
2
C209
BLK
DK GRN
13
5
S204
20
1
BLK
DK GRN
G201
To Dimmer Switch
C409E001

CIGAR LIGHTER

Cigar Lighter Inoperative

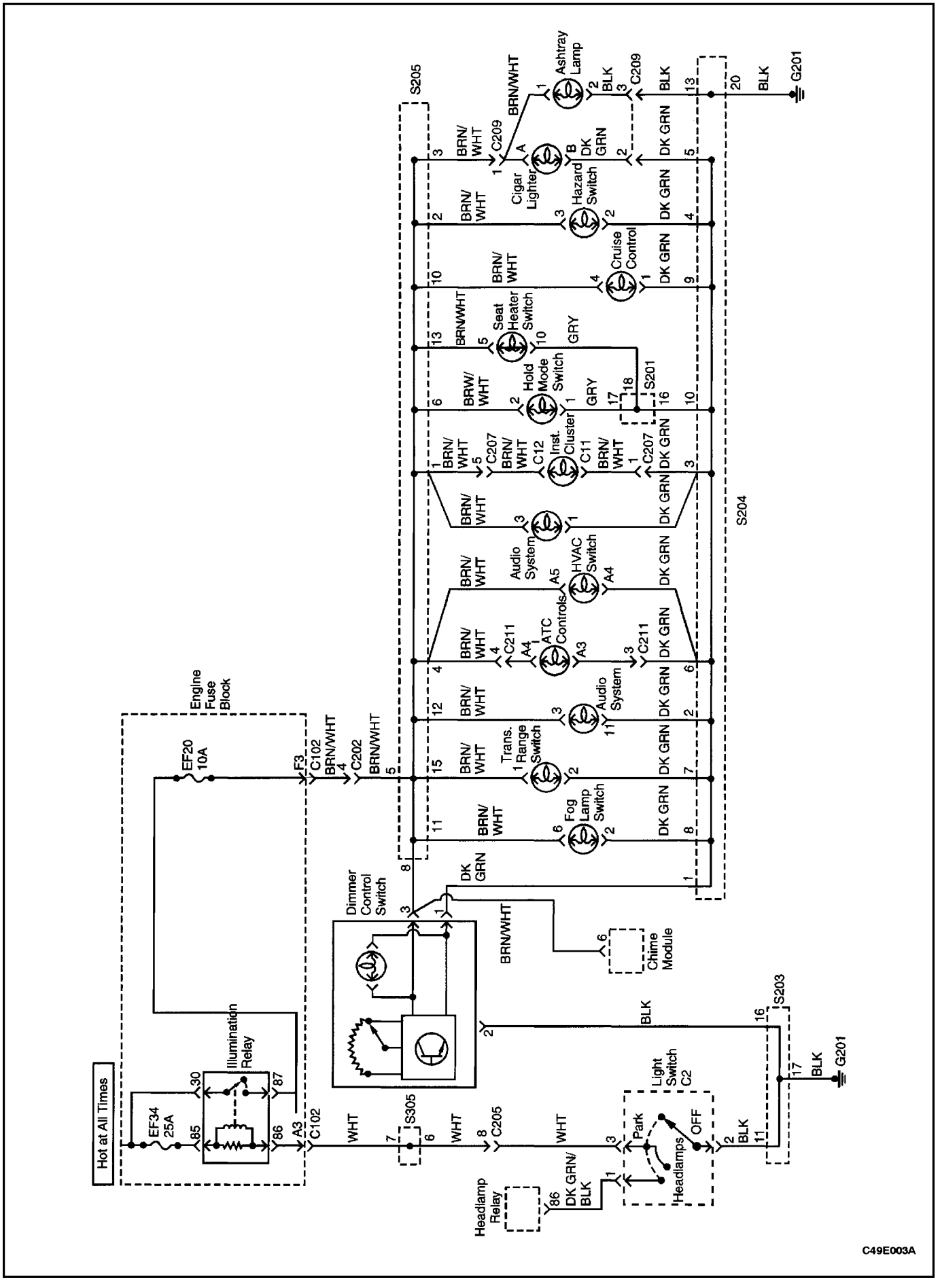
Step	Action	Value(s)	Yes	No
1	Check fuse F8. Is the fuse blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace the fuse. Is the repair complete?		System OK	
3	1. Turn the ignition to ACC. 2. Use a voltmeter to check for voltage at fuse F8. Is the voltage equal to the specified value?	11–14 v	Go to*Step 5*	Go to*Step 4*
4	Repair the open power–supply circuit for fuse F8. Is the repair complete?		System OK	
5	1. Remove the electrical connector from the back of the cigar lighter. 2. Turn the ignition to ACC. 3. Use a voltmeter to check the voltage at terminal 1 on the cigar lighter electrical connector. Is the voltage equal to the specified value?	11–14 v	Go to*Step 7*	Go to*Step 6*
6	Repair the open circuit between fuse F8 and the cigar lighter. Is the repair complete?		System OK	
7	With the ignition key still in ACC, connect the voltmeter between terminal 1 and terminal 2 on the cigar lighter connector. Is the battery voltage equal to the specified value?	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	


Hot at All Times
Hot in ACC and Run
Hot with Lights ON
EF1
30A
Engine
Fuse
Block
B
C104
RED
F1
10A
F9
10A
I/P
Fuse
Block
S205
9
ORN
1
YEL
6
C202
BRN/WHT
LT GRN/BLK
C203
19
ORN
16
S205
YEL
1
S203
LT GRN
20
LT GRN
LT GRN/
BLK
ORN
20
5
YEL
7
3
1
5
6
21
20
C371
Clock
BLK
BLK
2
Glove
Box
Switch
Outside
Temperature
Sensor
BLK
2
BLK
15
S204
20
BLK
G201
C409E002

DIGITAL CLOCK

Digital Clock Inoperative

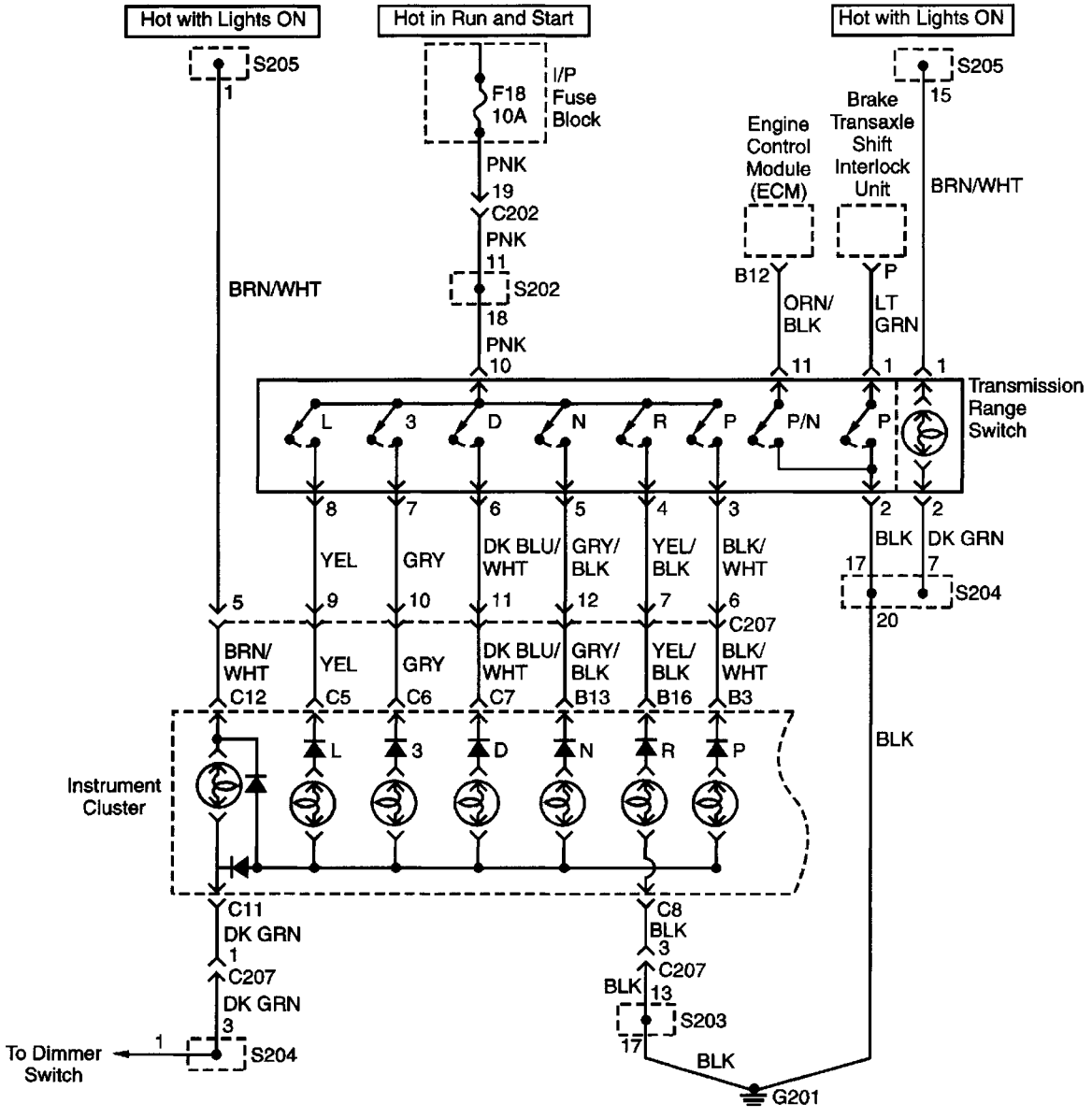
Step	Action	Value(s)	Yes	No
1	Check fuse F1 and F9. Is either of the fuses F1 or F9 blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace the blown fuses. Is the repair complete?		System OK	
3	1. Turn the ignition ON. 2. Use a voltmeter to check the battery voltage available at fuses F1 and F9. Is the voltage equal to the specified value?	11–14 v	Go to*Step 6*	Go to*Step 2*
4	Repair the open power supply circuit for the fuse. Is the repair complete?		System OK	
5	1. Turn the ignition ON. 2. Use a voltmeter to check the battery voltage available at the clock connector terminal 5. Is the voltage equal to the specified value?	11–14 v	Go to*Step 7*	Go to*Step 6*
6	Repair the open circuit between the clock connector terminal 5 and fuse F9. 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 fuse F1. Is the repair complete?		System OK	
9	Check the continuity between the clock connector terminal 2 and ground. Is the continuity equal to the specified value?	$\approx$ 0 Ω	Go to*Step 10*	Go to*Step 11*
10	Replace the clock. Is the repair complete?		System OK	
11	Repair the open ground circuit between the clock connector terminal 2 and ground G201. Is the repair complete?		System OK	


Hot at All Times
EF34
25A
Illumination
Relay
Engine
Fuse
Block
EF20
10A
F3
C102
BRN/WHT
C202
BRN/WHT
Dimmer
Control
Switch
Headlamp
Relay
S305
C205
WHT
DK GRN/
BLK
Park
Headlamps
OFF
Light
Switch
C2
BLK
S203
G201
BRN/WHT
Chime
Module
DK
GRN
S205
S204
BRN/
WHT
C209
Cigar
Lighter
Hazard
Switch
Cruise
Control
Seat
Heater
Switch
Hold
Mode
Switch
S201
GRY
BRW/
WHT
Inst.
Cluster
C11
C12
C207
Audio
System
HVAC
Switch
ATC
Controls
C211
Trans.
Range
Switch
Fog
Lamp
Switch
Ashtray
Lamp
C209
BLK
DK GRN
C49E003A

INSTRUMENT PANEL ILLUMINATION

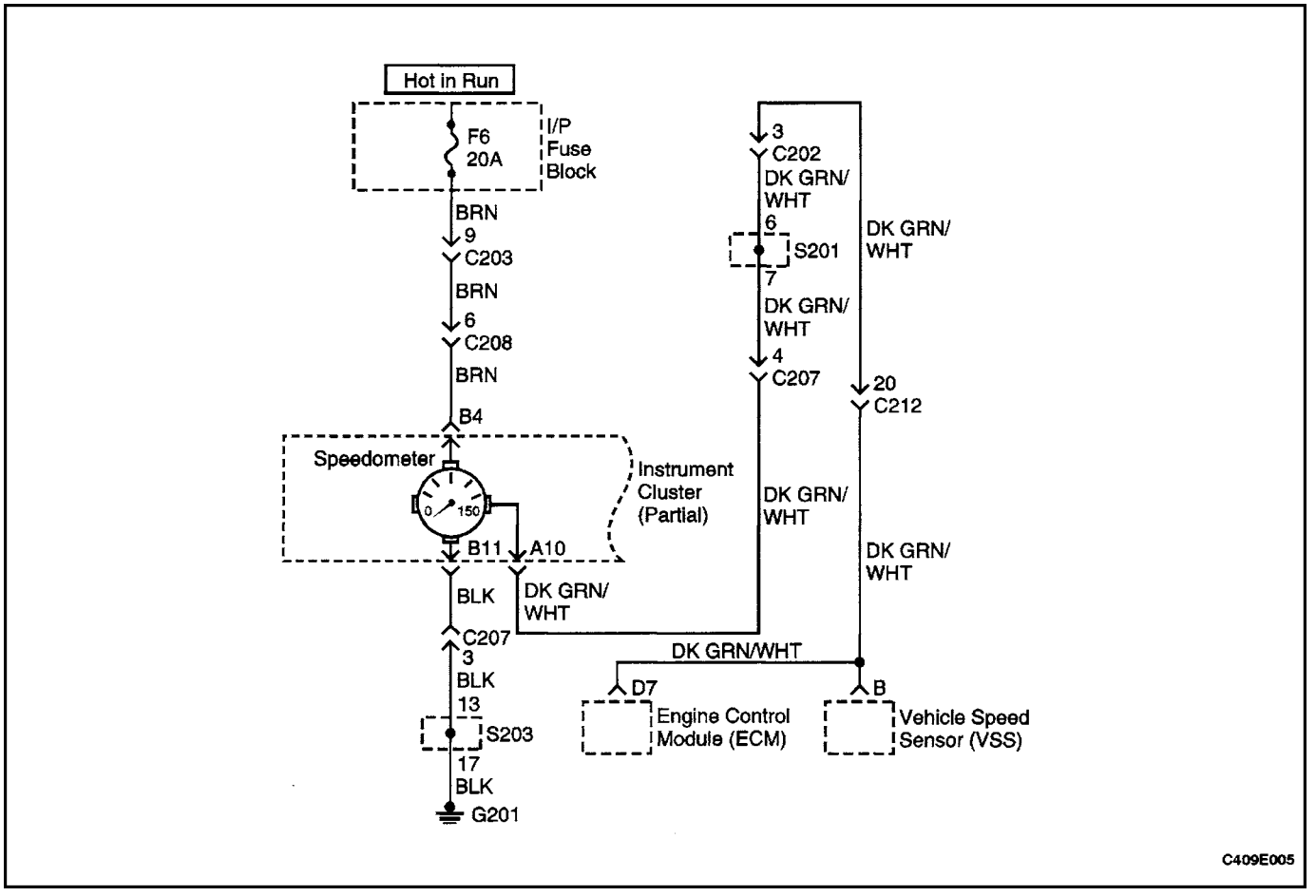
Instrument Panel Does Not Illuminate When Lights Are ON

Step	Action	Value(s)	Yes	No
1	Check the operation of the headlamps and the parking lamps. Do the headlamps and the parking lamps work on both sides of the vehicle?		Go to*Step 3*	Go to*Step 2*
2	Repair the headlamps and the parking lamps. Does the instrument panel illumination turn ON after the headlamps and the parking lamps have been repaired?		System OK	Go to*Step 3*
3	1. Disconnect the electrical connector at the dimmer control switch. 2. Turn the parking lamps ON. 3. Use a voltmeter to check the voltage at the dimmer control switch terminal 3. 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 dimmer control switch. Is the repair complete?		System OK	
5	1. Turn the lights OFF. 2. At the disconnected dimmer control switch, use an ohmmeter to check the resistance between ground and terminal 2 of the dimmer switch connector. Is the resistance equal to the specified value?	≈ 0 Ω	Go to*Step 7*	Go to*Step 6*
6	Repair the open circuit between ground and terminal 2 of the dimmer control switch connector. Is the repair complete?		System OK	—
7	1. Turn the parking lights ON. 2. At the disconnected dimmer control switch, check the voltage at terminal 1 of the dimmer control switch. Is the voltage equal to the specified value?	11–14 v	Go to*Step 9*	Go to*Step 8*
8	Repair the open circuit between connector C202 and terminal 1 of the dimmer control switch. Is the repair complete?		System OK	
9	Replace the dimmer control switch. Is the repair complete?		System OK	


Hot with Lights ON
Hot in Run and Start
Hot with Lights ON
S205
1
F18
10A
I/P
Fuse
Block
PNK
19
C202
PNK
11
S202
18
PNK
10
BRN/WHT
Engine
Control
Module
(ECM)
B12
ORN/
BLK
11
Brake
Transaxle
Shift
Interlock
Unit
P
LT
GRN
1
S205
15
BRN/WHT
1
Transmission
Range
Switch
L
3
D
N
R
P
P/N
P
8
7
6
5
4
3
2
2
YEL
GRY
DK BLU/
WHT
GRY/
BLK
YEL/
BLK
BLK/
WHT
BLK
DK GRN
17
7
S204
20
5
9
10
11
12
7
6
C207
BRN/
WHT
C12
YEL
C5
GRY
C6
DK BLU/
WHT
C7
GRY/
BLK
B13
YEL/
BLK
B16
BLK/
WHT
B3
Instrument
Cluster
L
3
D
N
R
P
BLK
C11
DK GRN
1
C207
DK GRN
3
To Dimmer
Switch
1
S204
C8
BLK
3
C207
BLK
13
S203
17
BLK
G201
C49E004A

Automatic Transaxle Gear Position Illumination Lamp Inoperative, All Other Instrument Lamps OK

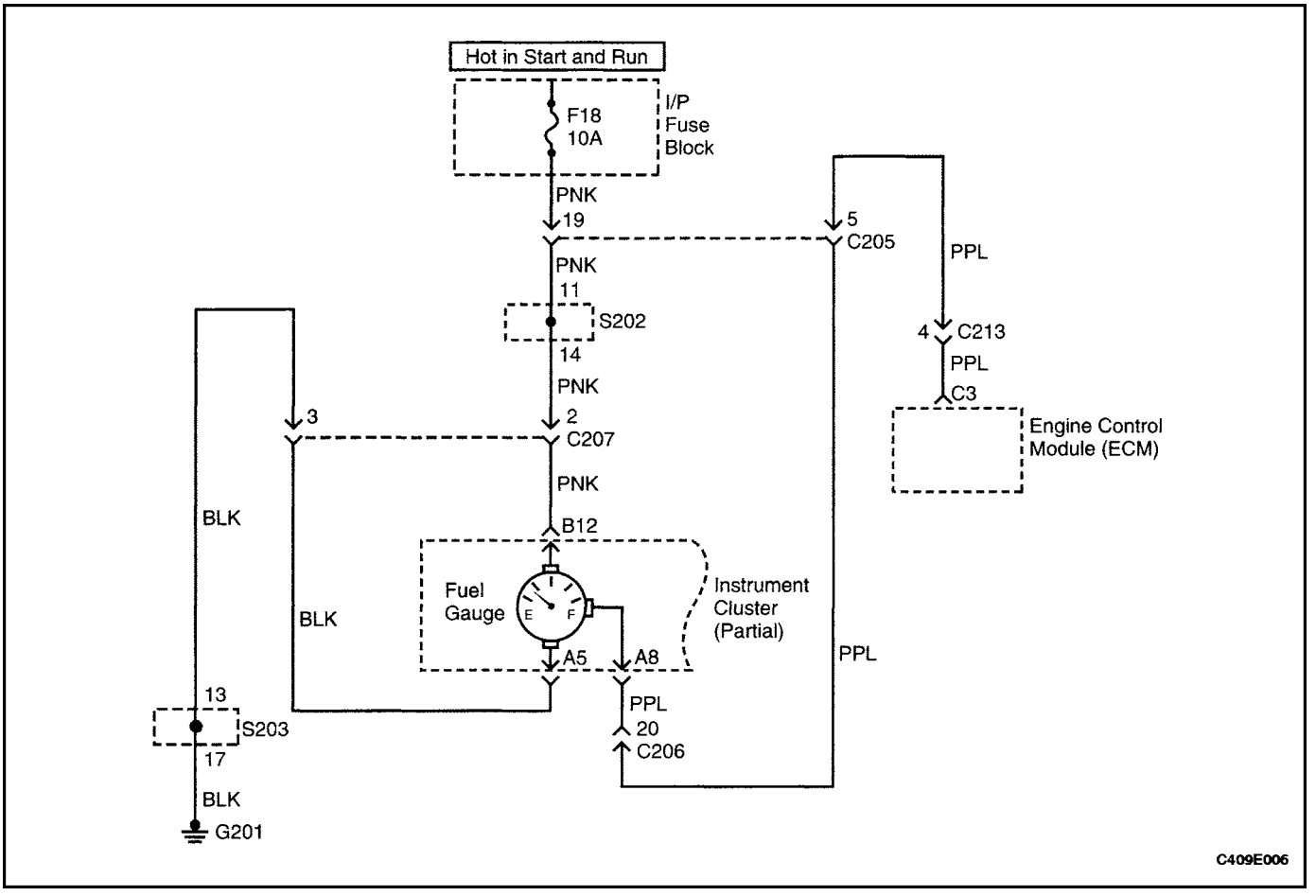
Step	Action	Value(s)	Yes	No
1	Check for fuse F18. Is fuse F18 blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace the blown fuse. Is the repair complete?		System OK	
3	1. Turn the ignition ON. 2. Use a voltmeter to check the battery voltage available at fuse F18. Is the battery voltage equal to the specified value?	11–14 v	Go to*Step 5*	Go to*Step 4*
4	Repair the open power supply circuit to fuse F18. Is the repair complete?		System OK	—
5	1. Turn the ignition switch ON. 2. Remove the automatic transaxle position lamp. 3. Use a voltmeter to check battery voltage available at the lamp socket. Is the battery voltage equal to the specified value?	11–14 v	Go to*Step 7*	Go to*Step 6*
6	Repair the open circuit between the automatic transaxle position lamp socket and fuse F18. Is the repair complete?		System OK	
7	1. Remove the automatic transaxle position lamp. 2. Use an ohmmeter to check the resistance between the ground circuit and the lamp socket. Is the resistance equal to the value specified?	$\approx 0\ \Omega$	Go to*Step 9*	Go to*Step 8*
8	Repair the open ground circuit between the automatic transaxle position lamp socket and ground G201. Is the repair complete?		System OK	
9	Replace the automatic transaxle position lamp. Is the repair complete?		System OK	


Hot in Run
F6
20A
I/P
Fuse
Block
BRN
9
C203
BRN
6
C208
BRN
B4
Speedometer
0
150
Instrument
Cluster
(Partial)
B11
A10
BLK
DK GRN/
WHT
C207
3
BLK
13
S203
17
BLK
G201
3
C202
DK GRN/
WHT
6
S201
7
DK GRN/
WHT
4
C207
20
C212
DK GRN/
WHT
DK GRN/
WHT
DK GRN/WHT
D7
Engine Control
Module (ECM)
B
Vehicle Speed
Sensor (VSS)
C409E005

SPEEDOMETER

Speedometer Is Inoperative

Step	Action	Value(s)	Yes	No
1	Check fuse F6. Is fuse F6 blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace fuse F6. Is the repair complete?		System OK	
3	1. Turn the ignition ON. 2. Check the voltage at fuse F6. Is the voltage equal to the specified value?	11–14 v	Go to*Step 5*	Go to*Step 4*
4	Repair the power supply for the ignition 2 relay. Is the repair complete?		System OK	
5	1. Connect a scan tool. 2. Check for engine control diagnostic trouble codes (DTCs). Is a vehicle speed sensor DTC P052 set?		Go to*Section 1F, Engine Controls*	Go to*Step 6*
6	1. Remove the instrument cluster. 2. Turn the ignition ON. 3. Check the voltage at instrument cluster connector terminal B4. Is the voltage equal to the specified value?	11–14 v	Go to*Step 8*	Go to*Step 7*
7	Repair the open circuit between fuse F6 and the instrument cluster. Is the repair complete?		System OK	—
8	Use an ohmmeter to check the resistance between ground and instrument cluster connector terminal B11. Is the resistance equal to the specified value?	≈ 0 Ω	Go to*Step 10*	Go to*Step 9*
9	Repair the open circuit between ground and instrument cluster connector terminal B11. Is the repair complete?		System OK	
10	Use an ohmmeter to check the continuity of the circuit wire between the vehicle speed sensor terminal B and instrument cluster connector terminal A10. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 12*	Go to*Step 11*
11	Repair the open circuit between the vehicle speed sensor and the instrument cluster. Is the repair complete?		System OK	
12	Replace the speedometer. Is the repair complete?		System OK	


Hot in Start and Run
F18
10A
I/P
Fuse
Block
PNK
19
5
C205
PPL
PNK
11
S202
4
C213
PPL
14
C3
PNK
Engine Control
Module (ECM)
3
2
C207
PNK
BLK
B12
Fuel
Gauge
E
F
Instrument
Cluster
(Partial)
BLK
A5
A8
PPL
13
S203
PPL
20
C206
17
BLK
G201
C409E006

FUEL GAUGE

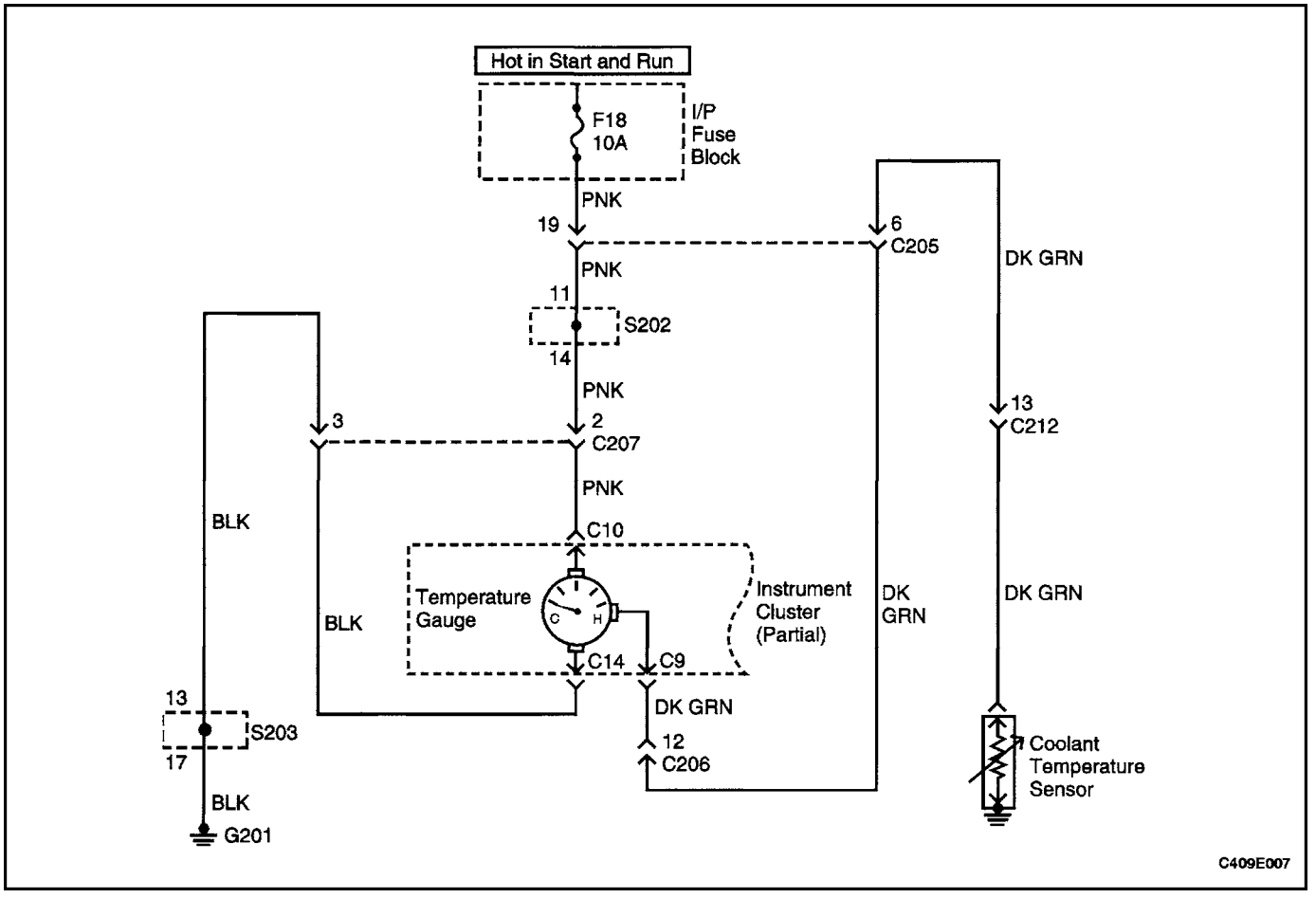
Fuel Gauge Inoperative

Test Description

The number(s) below refer to step(s) on the diagnostic table.

1. Begin the diagnostic table at Step 1 if the problem is that the fuel gauge always indicates full. Begin the diagnostic table at Step 7 if the problem is that the fuel gauge always indicates empty.

Step	Action	Value(s)	Yes	No
1	Turn the ignition ON. Does the fuel gauge always indicate a full fuel tank with the ignition ON?		Go to*Step 2*	Go to*Step 7*
2	1. Turn the ignition OFF. 2. Disconnect the white connector from the engine control module (ECM). 3. Turn the ignition ON. Does the fuel gauge change to empty?		Go to*Step 3*	Go to*Step 4*
3	Replace the ECM. Is the repair complete?		System OK	
4	Check the wiring harness for a short to ground between the ECM and the fuel gauge. Is there a short to ground?		Go to*Step 5*	Go to*Step 6*
5	Repair the short to ground. Is the repair complete?		System OK	
6	Replace the fuel gauge. Is the repair complete?		System OK	
7	1. Turn the ignition OFF. 2. Disconnect connector terminal C3 from the ECM. 3. Turn the ignition ON. 4. Check the voltage at the ECM connector terminal C3. Is the voltage equal to the specified value?	11–14 v	Go to*Step 9*	Go to*Step 8*
8	Repair the open circuit between the fuel gauge and the ECM. Is the repair complete?		System OK	
9	Replace the ECM. Is the repair complete?		System OK	


Hot in Start and Run
F18
10A
I/P
Fuse
Block
PNK
19
6
C205
DK GRN
PNK
11
S202
14
PNK
3
2
C207
13
C212
PNK
BLK
C10
Temperature
Gauge
C
H
Instrument
Cluster
(Partial)
DK
GRN
DK GRN
BLK
C14
C9
13
S203
17
DK GRN
12
C206
Coolant
Temperature
Sensor
BLK
G201
C409E007

TEMPERATURE GAUGE

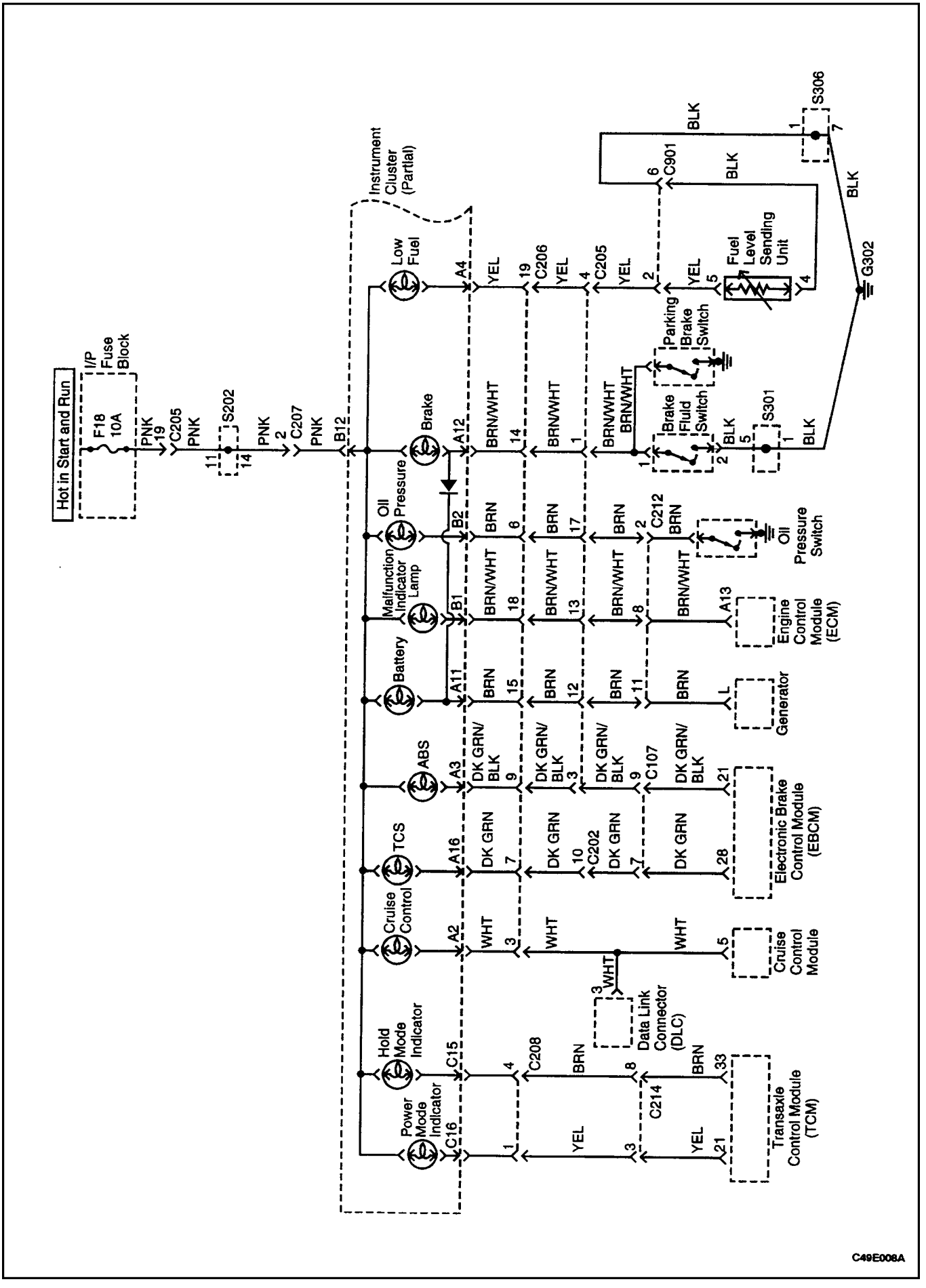
Temperature Gauge Inoperative, Other Gauges OK

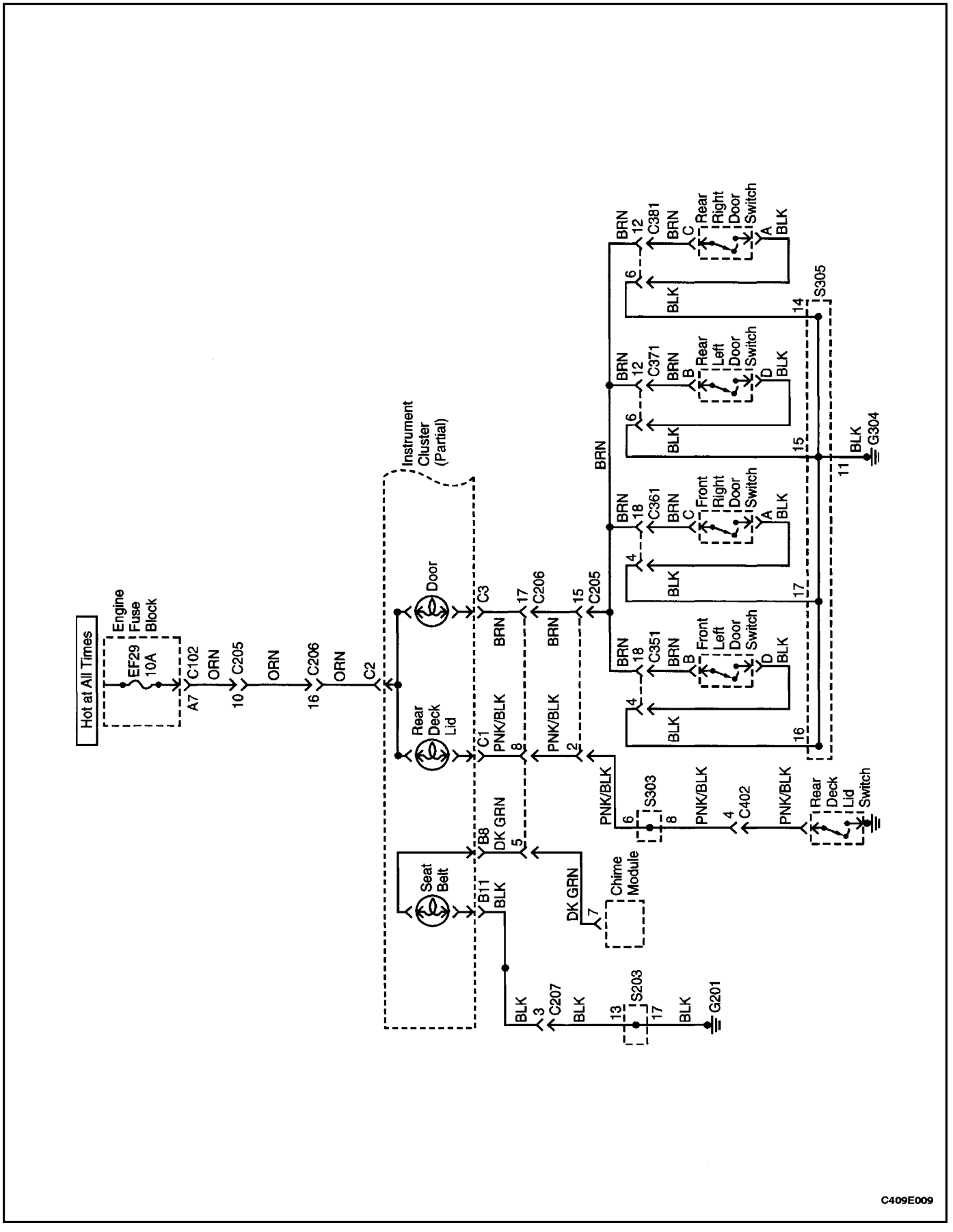
Test Description

The number(s) below refer to step(s) on the diagnostic table.

1. Begin the diagnostic table at Step 1 if the problem is that the temperature gauge always indicates full. Begin the diagnostic table at Step 7 if the problem is that the temperature gauge always indicates empty.

Step	Action	Value(s)	Yes	No
1	Allow the engine to cool to room temperature. With the ignition ON, does the temperature gauge always read at the high end of the scale?		Go to*Step 3*	Go to*Step 2*
2	Disconnect the coolant temperature sensor electrical connector. Does the temperature gauge indicator drop to the low end of the scale?		Go to*Step 3*	Go to*Step 4*
3	Replace the coolant temperature sensor. Is the repair complete?		System OK	
4	Check for a short to ground between the coolant temperature sensor and the temperature gauge. Is there a short to ground?		Go to*Step 5*	Go to*Step 6*
5	Repair the short to ground. Is the repair complete?		System OK	
6	Replace the temperature gauge. Is the repair complete?		System OK	
7	1. Disconnect the coolant temperature sensor. 2. Turn the ignition ON. 3. Check the voltage at the coolant temperature sensor connector. Is the the voltage equal to the specified value?	11–14 v	Go to*Step 10*	Go to*Step 8*
8	Check for an open circuit between the coolant temperature sensor and the temperature gauge. Is there an open circuit?		Go to*Step 9*	Go to*Step 6*
9	Repair the open circuit between the coolant temperature sensor and the temperature gauge. Is the repair complete?		System OK	
10	1. Disconnect the coolant temperature sensor. 2. Connect a jumper wire between the coolant temperature sensor connector and ground. 3. Turn the ignition ON. Does the temperature gauge move to the high end of the scale?		Go to*Step 3*	Go to*Step 6*

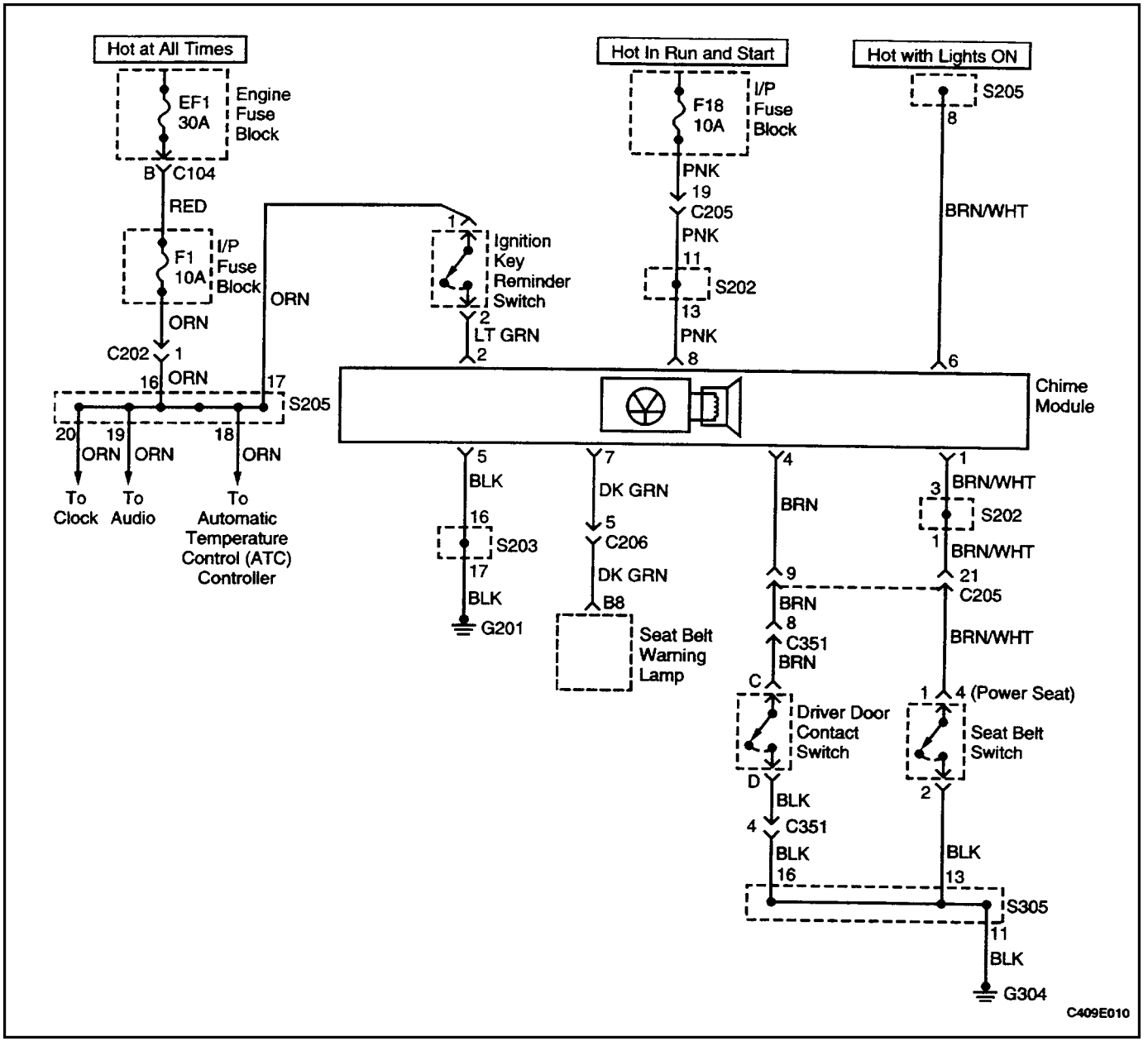

Hot in Start and Run
I/P Fuse Block
F18 10A
PNK 19 C205 PNK
11 S202 14
PNK 2 C207 PNK B12
Instrument Cluster (Partial)
Low Fuel
Brake
Oil Pressure
Malfunction Indicator Lamp
Battery
ABS
TCS
Cruise Control
Hold Mode Indicator
Power Mode Indicator
A4 YEL 19 C206 YEL 4 C205 YEL 2
A12 BRN/WHT 14 BRN/WHT 1 BRN/WHT
B2 BRN 6 BRN 17 BRN 2 C212 BRN
B1 BRN/WHT 18 BRN/WHT 13 BRN/WHT 8 BRN/WHT A13
A11 BRN 15 BRN 12 BRN 11 BRN L
A3 DK GRN/BLK 9 DK GRN/BLK 3 DK GRN/BLK 9 C107 DK GRN/BLK 21
A16 DK GRN 7 DK GRN 10 C202 DK GRN 7 DK GRN 28
A2 WHT 3 WHT 3 WHT 5
C15 4 C208 BRN 8 C214 BRN 33
C16 1 YEL 3 YEL 21
6 C901 BLK
BLK
1 S306 7
BLK
G302
Fuel Level Sending Unit
YEL 5 4
Parking Brake Switch
BRN/WHT BRN/WHT
Brake Fluid Switch
1 2
BLK 5 S301 1 BLK
Oil Pressure Switch
Engine Control Module (ECM)
Generator
Electronic Brake Control Module (EBCM)
Cruise Control Module
Data Link Connector (DLC)
Transaxle Control Module (TCM)
C49E008A


Hot at All Times
Engine Fuse Block
EF29 10A
A7
C102
ORN
10
C205
ORN
16
C206
ORN
C2
Instrument Cluster (Partial)
Door
C3
17
C206
BRN
15
C205
BRN
Rear Deck Lid
C1
PNK/BLK
8
PNK/BLK
2
PNK/BLK
Seat Belt
B8
DK GRN
5
B11
BLK
DK GRN
7
Chime Module
BLK
3
C207
BLK
13
S203
17
BLK
G201
6
S303
8
PNK/BLK
4
C402
PNK/BLK
Rear Deck Lid Switch
BRN
18
C351
BRN
B
Front Left Door Switch
D
BLK
4
BLK
BRN
18
C361
BRN
C
Front Right Door Switch
A
BLK
4
BLK
BRN
12
C371
BRN
B
Rear Left Door Switch
D
BLK
6
BLK
BRN
12
C381
BRN
C
Rear Right Door Switch
A
BLK
6
BLK
S305
14
15
16
17
11
BLK
G304
C409E009

INSTRUMENT CLUSTER INDICATOR LAMPS

Instrument Cluster Indicator Lamps Do Not Operate

Step	Action	Value(s)	Yes	No
1	Check fuse EF29 and F18. Is fuse EF29 or F18 blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace the blown fuse. Is the repair complete?		System OK	
3	1. Turn the ignition ON. 2. Check the voltage at fuse EF29 and F18. Is the battery voltage equal to the specified value?	11–14 v	Go to*Step 5*	Go to*Step 4*
4	Repair the open power supply circuit to fuse EF29 or F18. Is the repair complete?		System OK	
5	1. Remove the instrument cluster. 2. Disconnect instrument cluster connectors C2 and B12. 3. Turn the ignition ON. Is the battery voltage equal to the specified value?	11–14 v	Go to*Step 7*	Go to*Step 6*
6	Repair the open circuit between fuses EF29 and F18 and instrument cluster connectors C2 and B12. Is the repair complete?		System OK	
7	Check the instrument cluster warning lamp bulbs. Are the bulbs OK?		Go to*Step 9*	Go to*Step 8*
8	1. Replace any warning lamp bulbs that were defective. 2. Check the charging system to make sure the alternator is not overcharging. 3. Repair the charging system, if necessary. Is the repair complete?		System OK	
9	Replace the instrument cluster. Is the repair complete?		System OK	


Hot at All Times
EF1
30A
Engine
Fuse
Block
B
C104
RED
F1
10A
I/P
Fuse
Block
ORN
ORN
C202
1
16
ORN
17
S205
20
19
18
ORN
ORN
ORN
To
Clock
To
Audio
To
Automatic
Temperature
Control (ATC)
Controller
1
Ignition
Key
Reminder
Switch
2
LT GRN
2
Hot In Run and Start
F18
10A
I/P
Fuse
Block
PNK
19
C205
PNK
11
S202
13
PNK
8
Hot with Lights ON
S205
8
BRN/WHT
6
Chime
Module
5
BLK
16
S203
17
BLK
G201
7
DK GRN
5
C206
DK GRN
B8
Seat Belt
Warning
Lamp
4
BRN
9
BRN
8
C351
BRN
C
Driver Door
Contact
Switch
D
BLK
4
C351
BLK
16
1
BRN/WHT
3
S202
1
BRN/WHT
21
C205
BRN/WHT
1
4 (Power Seat)
Seat Belt
Switch
2
BLK
13
S305
11
BLK
G304
C409E010

CHIME MODULE

No Chime With the Seat Belt Unfastened and the Key in the Ignition Switch

Diagnostic Aids

For headlamps reminder chime diagnosis, refer to*Section 9B, Lighting Systems.*

Test Description

The number(s) below refer to step(s) on the diagnostic table.

7. The chime module is under the instrument panel on the left side.
10. The wires at the ignition switch may be RED and BLK, but they connect to ORN and LT GRN at the two–pin connector.

Step	Action	Value(s)	Yes	No
1	Check fuse F18 and EF1. Is fuse F18 or EF1 blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace the blown fuse. Is the repair complete?		System OK	
3	Check the voltage at fuse EF1. Is the voltage equal to the specified value?	11–14 v	Go to*Step 5*	Go to*Step 4*
4	Repair the power supply for fuse EF1. Is the repair complete?		System OK	
5	1. Turn the ignition ON. 2. Check the voltage at fuse F18. Is the voltage equal to the specified value?	11–14 v	Go to*Step 7*	Go to*Step 6*
6	Repair the power supply for fuse F18. Is the repair complete?		System OK	
7	1. Disconnect the chime module electrical connector. 2. Turn the ignition ON. 3. Check the voltage at terminal 8 of the chime module connector. Is the voltage equal to the specified value?	11–14 v	Go to*Step 9*	Go to*Step 8*
8	Repair the open circuit between fuse F18 and chime module connector terminal 8. Is the repair complete?		System OK	
9	1. Disconnect the chime module electrical connector. 2. Insert the key in the ignition switch. 3. Check the voltage at terminal 2 of the chime module connector. Is the voltage equal to the specified value?	11–14 v	Go to*Step 15*	Go to*Step 10*
10	1. There are two wires from the key reminder switch which lead to an instrument harness connector. Disconnect that two–pin connector. 2. Check the voltage at the circuit wire from terminal 1. 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 fuse EF1 and the key reminder switch. Is the repair complete?		System OK	

Step	Action	Value(s)	Yes	No
12	1. Insert a key into the ignition switch. 2. With the two–pin key reminder connector still disconnected, connect one ohmmeter lead to each wire leading to the key reminder switch. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 14*	Go to*Step 13*
13	Replace the ignition switch. Is the repair complete?		System OK	
14	Repair the open circuit between the connector for the key reminder switch and chime module connector terminal 2. Is the repair complete?		System OK	
15	Use an ohmmeter to check the continuity between ground and terminal 5 of the chime module connector. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 17*	Go to*Step 16*
16	Repair the open circuit between ground and terminal 5 of the chime module connector. Is the repair complete?		System OK	
17	1. Unfasten the driver's side seat belt. 2. With the chime module electrical connector still disconnected, connect an ohmmeter between ground and terminal 1 of the chime module. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 18*	Go to*Step 19*
18	Replace the chime module. Is the repair complete?		System OK	
19	1. Disconnect the seat belt switch under the driver's side seat. 2. Connect one ohmmeter lead to each wire leading to the driver's side seat belt switch. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 21*	Go to*Step 20*
20	Replace the seat belt switch. Is the repair complete?		System OK	
21	Repair the open circuit between ground and terminal 1 of the chime module connector. Is the repair complete?		System OK	

No Chime With the Door Open and the Key in the Ignition Switch

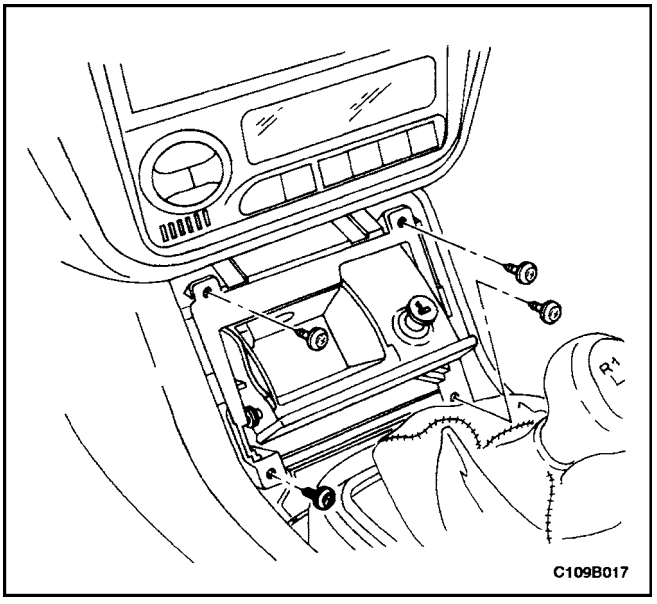
Test Description

The number(s) below refer to step(s) on the diagnostic table.

7. The chime module is under the instrument panel on the left side.
10. The wires at the ignition switch may be RED and BLK, but they connect to ORN and LT GRN at the two–pin connector.

Step	Action	Value(s)	Yes	No
1	Check fuse F18 and EF1. Is fuse F18 or EF1 blown?		Go to*Step 2*	Go to*Step 3*
2	1. Check for a short circuit and repair it, if necessary. 2. Replace the blown fuse. Is the repair complete?		Go to*Step 5*	Go to*Step 4*
3	Check the voltage at fuse EF1. Is the voltage equal to the specified value?	11–14 v	Go to*Step 5*	Go to*Step 4*
4	Repair the power supply for fuse EF1. Is the repair complete?		System OK	
5	1. Turn the ignition ON. 2. Check the voltage at fuse F18. Is the voltage equal to the specified value?	11–14 v	Go to*Step 7*	Go to*Step 6*
6	Repair the power supply for fuse F18. Is the repair complete?		System OK	
7	1. Disconnect the chime module electrical connector. 2. Turn the ignition ON. 3. Check the voltage at terminal 8 of the chime module connector. Is the voltage equal to the specified value?	11–14 v	Go to*Step 9*	Go to*Step 8*
8	Repair the open circuit between fuse F18 and chime module connector terminal 8. Is the repair complete?		System OK	
9	1. Disconnect the chime module electrical connector. 2. Insert the key in the ignition switch. 3. Check the voltage at terminal 2 of the chime module connector. Is the voltage equal to the specified value?	11–14 v	Go to*Step 15*	Go to*Step 10*
10	1. There are two wires from the key reminder switch which lead to an instrument harness connector. Disconnect that two–pin connector. 2. Check the voltage at the circuit wire from terminal 1. 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 fuse EF1 and the key reminder switch. Is the repair complete?		System OK	
12	1. Insert a key into the ignition switch. 2. With the two–pin key reminder connector still disconnected, connect one ohmmeter lead to each wire leading to the key reminder switch. Is the continuity equal to the specified value?	$\approx$ 0 Ω	Go to*Step 14*	Go to*Step 13*

Step	Action	Value(s)	Yes	No
13	Replace the ignition switch. Is the repair complete?		System OK	
14	Repair the open circuit between the connector for the key reminder switch and chime module connector terminal 2. Is the repair complete?		System OK	
15	Use an ohmmeter to check the continuity between ground and terminal 5 of the chime module connector. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 17*	Go to*Step 16*
16	Repair the open circuit between ground and terminal 5 of the chime module connector. Is the repair complete?		System OK	
17	1. Open the driver's side door. 2. With the chime module electrical connector still disconnected, connect an ohmmeter between ground and terminal 4 of the chime module. Is the continuity equal to the specified value?	≈ 0 Ω	Go to*Step 18*	Go to*Step 19*
18	Replace the chime module. Is the repair complete?		System OK	
19	Repair the open circuit between ground and terminal 4 of the chime module connector. (The driver door contact switch should be closed when the driver's side door is open.) Is the repair complete?		System OK	



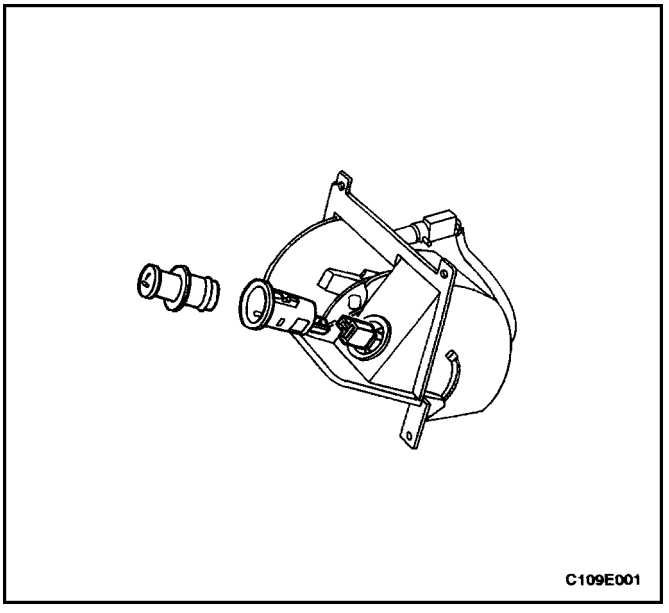
MAINTENANCE AND REPAIR

ON–VEHICLE SERVICE

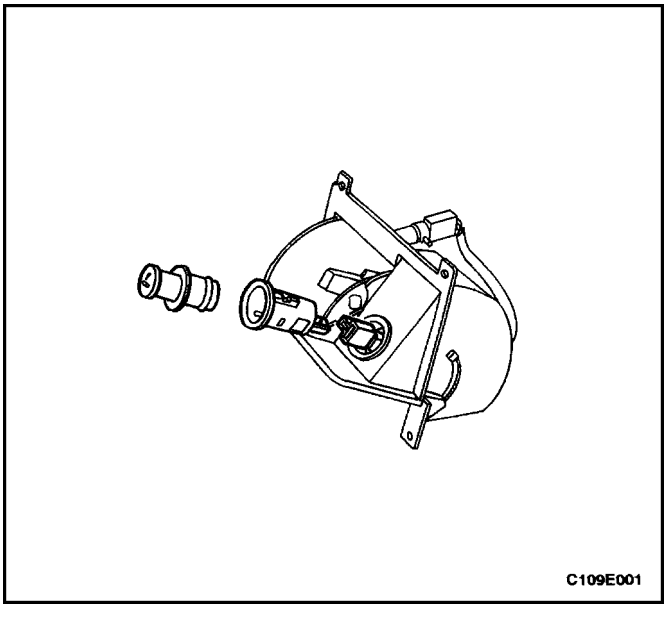
CIGAR LIGHTER

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the shift lever trim panel.
3. Remove the screws and the ashtray housing.

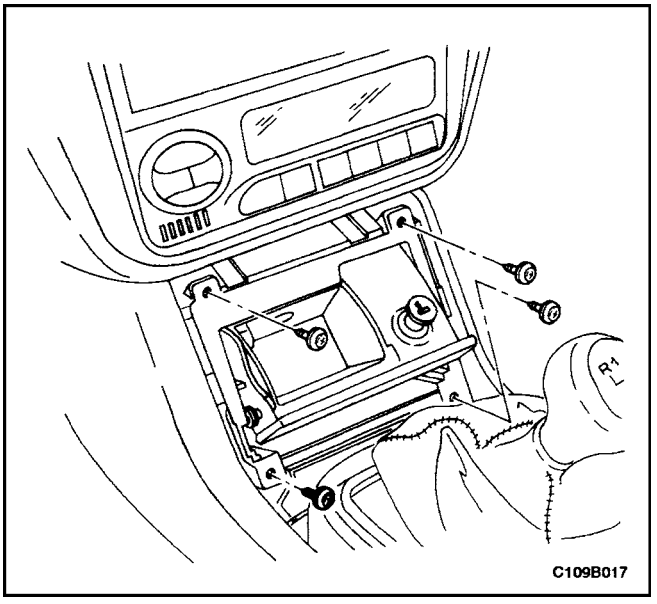


4. Disconnect the ashtray housing electrical connector.
5. Disconnect the cigar lighter electrical connector.
6. Remove the cigar lighter from the cigar lighter housing.
7. Remove the cigar lighter housing from the ashtray housing.



Installation Procedure

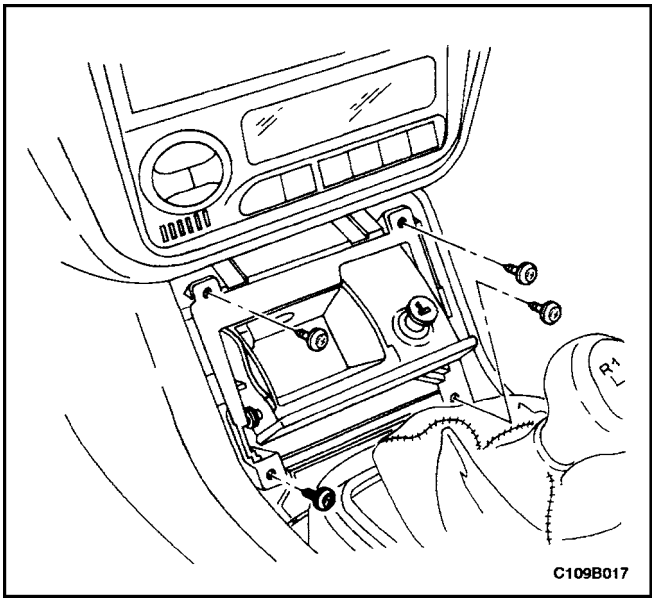
1. Install the cigar lighter housing in the ashtray housing.
2. Install the cigar lighter in the cigar lighter housing.
3. Connect the cigar lighter electrical connector.



4. Connect the ashtray housing electrical connector.
5. Install the ashtray housing with the screws.

   Tighten

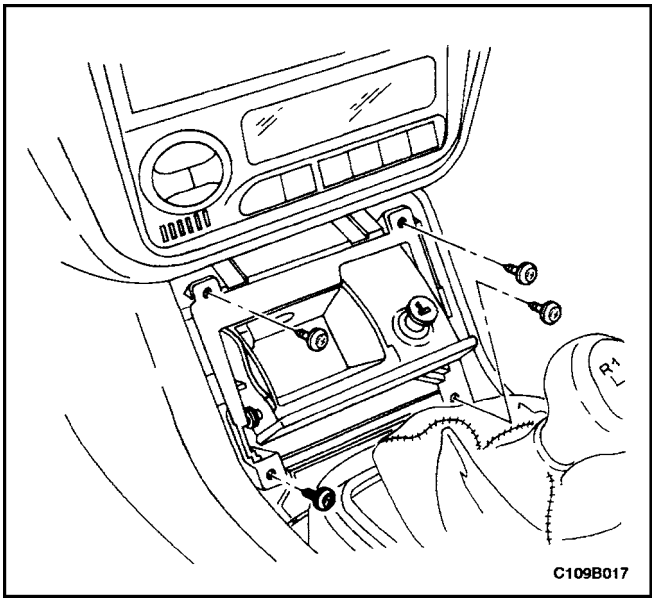
   Tighten the ashtray housing screws to 2.5 N•m (22 lb–in).
6. Install the shift lever trim panel.
7. Connect the negative battery cable.



ASHTRAY

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the shift lever trim panel.
3. Remove the screws and the ashtray housing.
4. Disconnect the ashtray electrical connector.
5. Remove the cigar lighter. Refer to ”Cigar Lighter” in this section.
6. Remove the ashtray lamp. Refer to *Section 9B, Lighting Systems.*

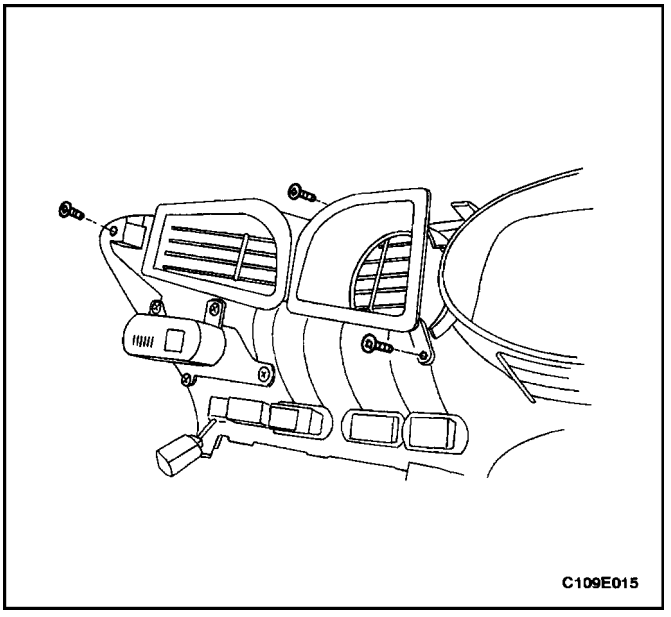


Installation Procedure

1. Install the ashtray lamp. Refer to *Section 9B, Lighting Systems.*
2. Install the cigar lighter. Refer to”Cigar Lighter” in this section.
3. Connect the ashtray electrical connector.
4. Install the screws and the ashtray housing.

   Tighten

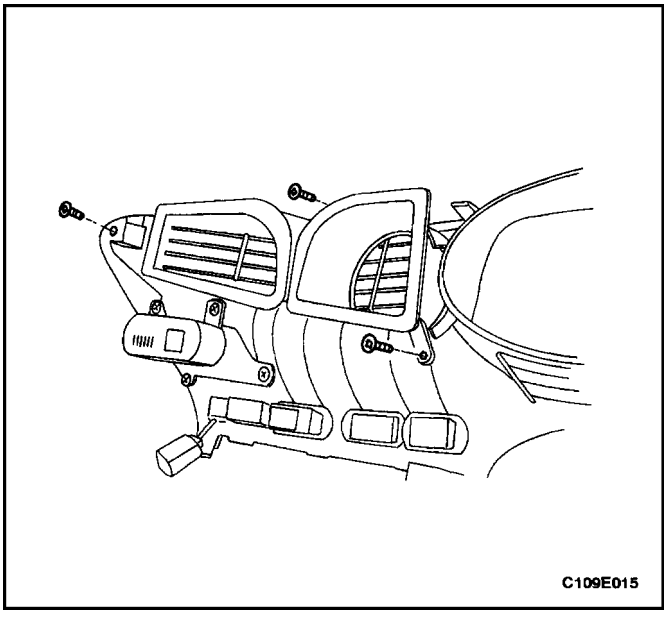
   Tighten the ashtray housing screws to 2.5 N•m (22 lb–in).
5. Install the shift lever trim panel.
6. Connect the negative battery cable.



INSTRUMENT PANEL VENTS

Removal Procedure

1. Remove the instrument cluster trim panel. Refer to ” Instrument Cluster Trim Panel ” in this section.
2. Remove the screws and the vents.

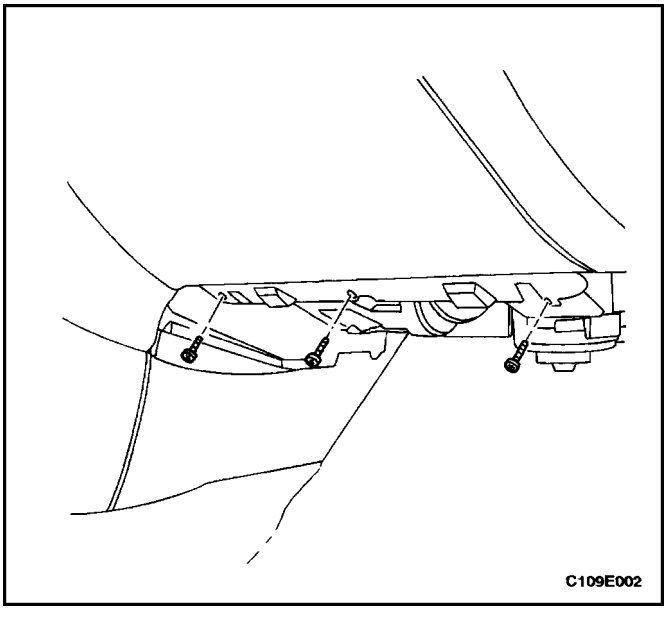


Installation

1. Install the vents with the screws.

   Tighten

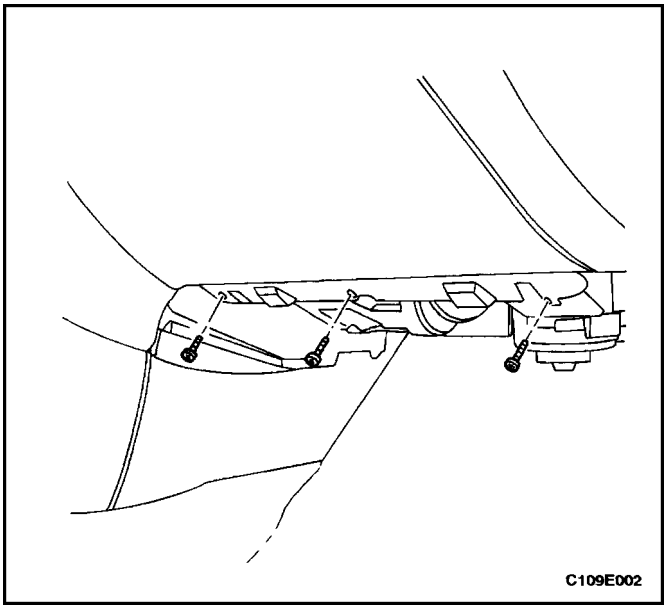
   Tighten the instrument panel vent screws to 3 N•m (27 lb–in).
2. Install the instrument cluster trim panel. Refer to”Instrument Cluster Trim Panel” in this section.



GLOVE BOX

Removal Procedure

1. Remove the footwell upper cover.
2. Remove the screws at the base of the glove box.
3. Open and remove the glove box.



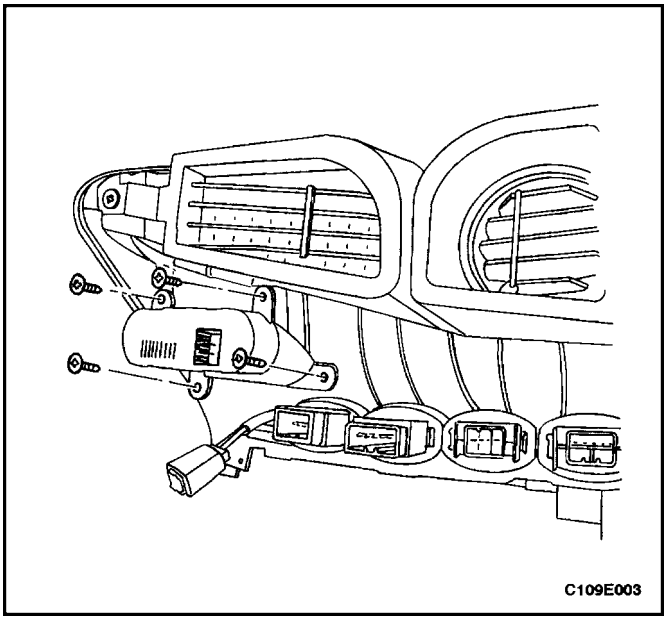
Installation Procedure

1. Position the glove box in the instrument panel.
2. Install the glove box with the screws.

   Tighten

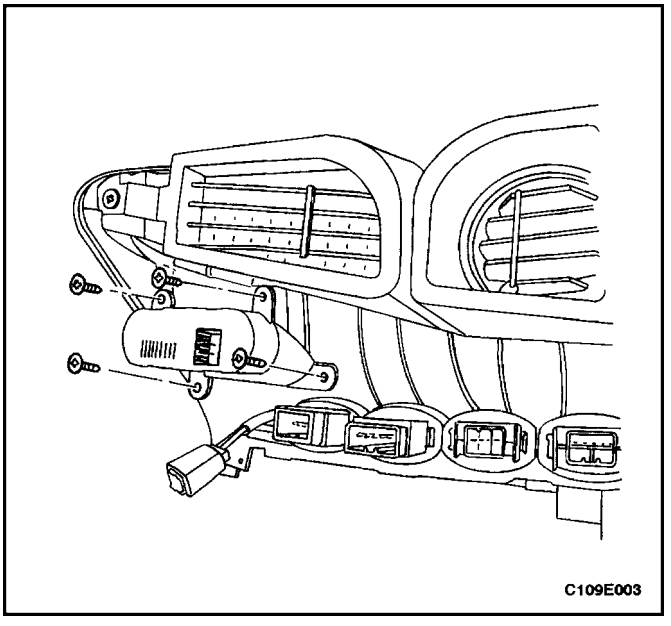
   Tighten the glove box screws to 2.5 N•m (22 lb–in).
3. Install the footwell upper cover.

DIGITAL CLOCK



Removal Procedure

1. Remove the instrument cluster trim panel. Refer to ” Instrument Cluster Trim Panel ” in this section.
2. Remove the screws and the digital clock.

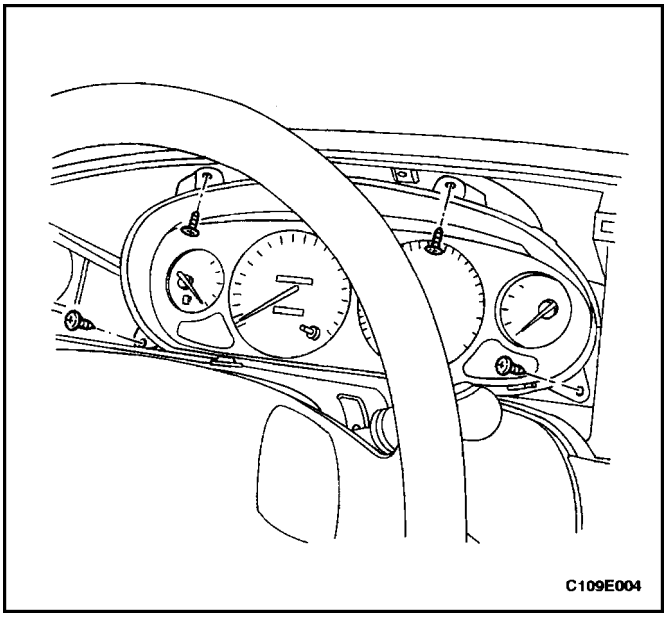


Installation Procedure

1. Install the digital clock with the screws.

   Tighten

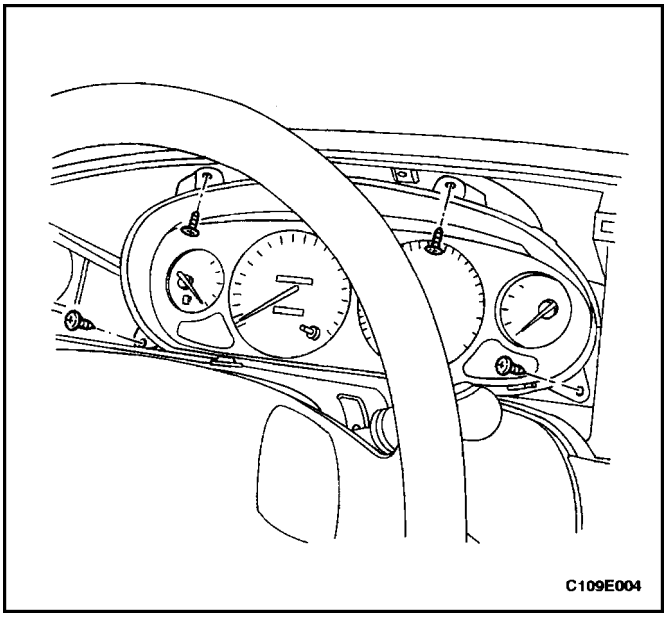
   Tighten the digital clock screws to 3 N•m (27 lb–in).
2. Install the instrument cluster trim panel. Refer to ” Instrument Cluster Trim Panel ” in this section.



INSTRUMENT CLUSTER

Removal Procedure

1. Remove the instrument cluster trim panel. Refer to " Instrument Cluster Trim Panel " in this section.
2. Remove the screws and the instrument cluster.

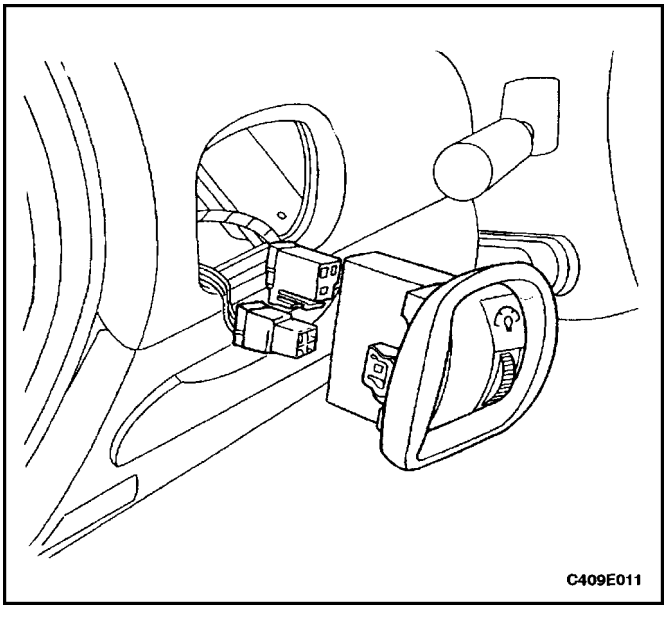


Installation Procedure

1. Install the instrument cluster with the screws.

   Tighten

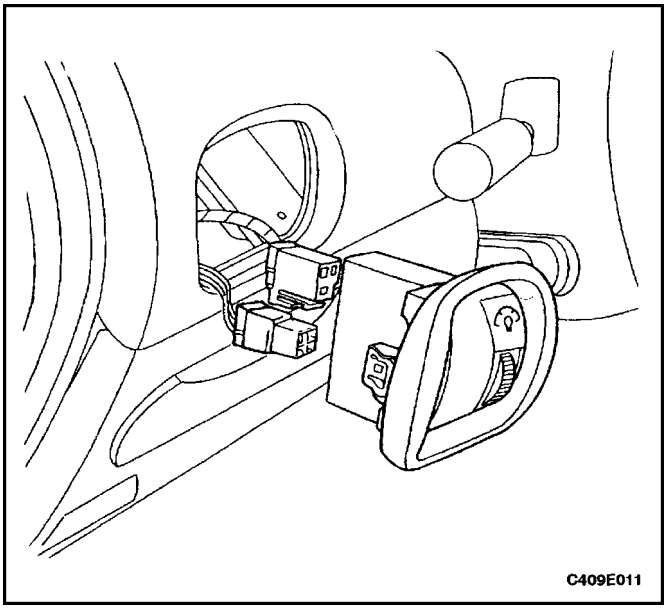
   Tighten the instrument cluster screws to 3 N•m (27 lb–in).
2. Install the instrument cluster trim panel. Refer to " Instrument Cluster Trim Panel " in this section.



INSTRUMENT CLUSTER DIMMER SWITCH

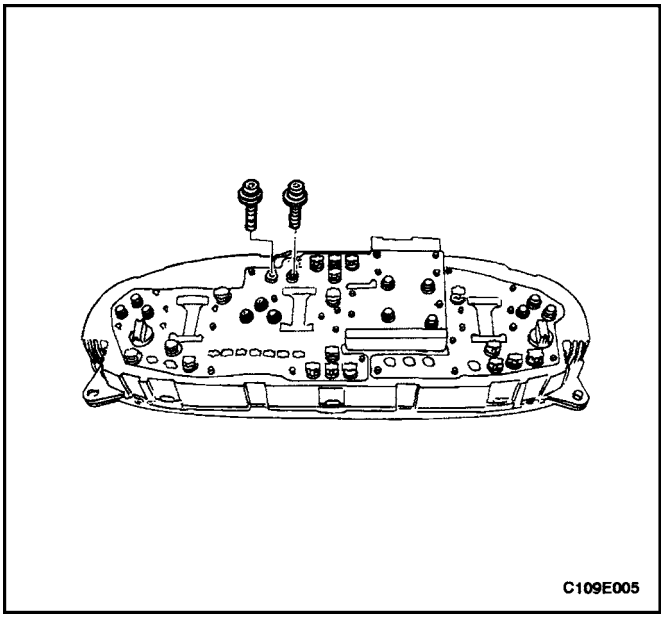
Removal Procedure

1. Remove the instrument cluster dimmer switch assembly.
2. Disconnect the electrical connectors.


C409E011

Installation Procedure

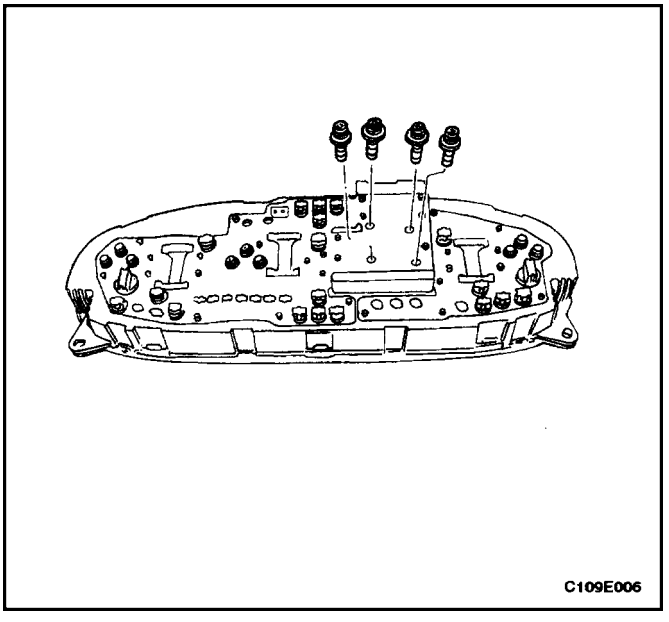
1. Replace the appropriate switch.
2. Connect the electrical connectors.
3. Install the instrument cluster dimmer switch assembly.


C109E005

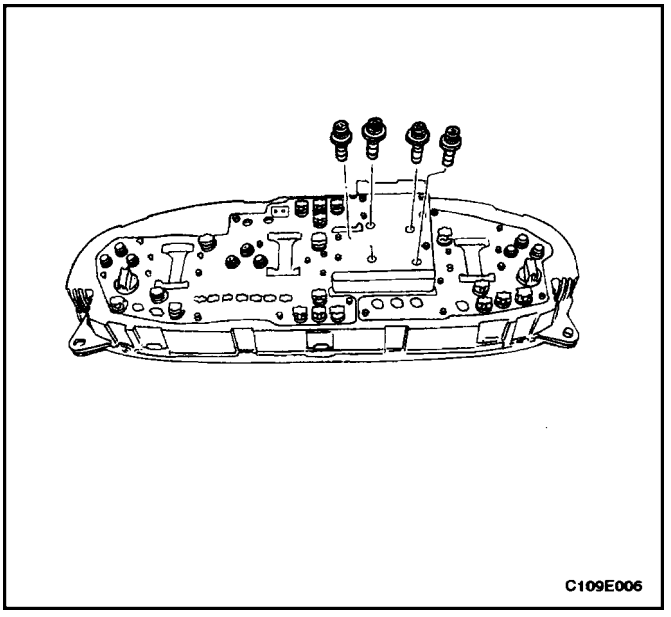
SPEEDOMETER/ODOMETER/TRIP ODOMETER

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the instrument cluster. Refer to" Instrument Cluster " in this section.
3. Remove the cluster illumination connector screws.


C109E006

4. Press the clips down and remove the instrument cluster lens.
5. Remove the screws and the speedometer from the instrument cluster.

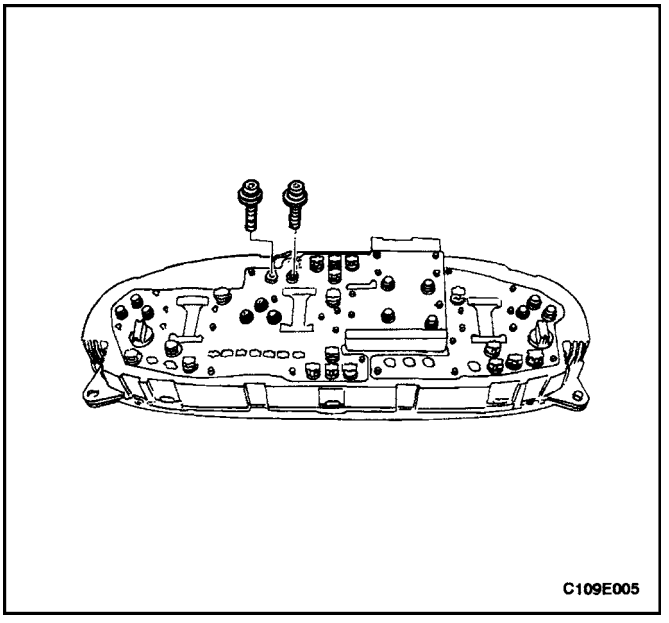


Installation Procedure

1. Install the speedometer with the screws.

   Tighten

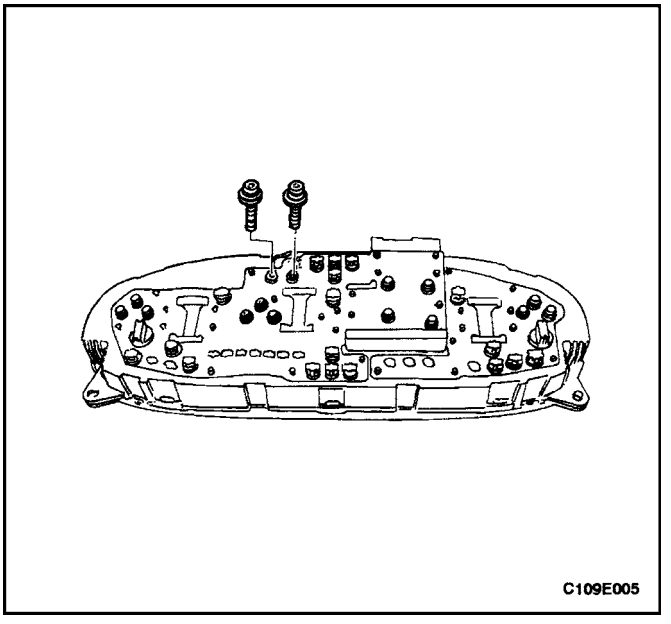
   Tighten the speedometer screws to 2 N•m (18 lb–in).



2. Install the instrument cluster lens.
3. Install the cluster illumination connector screws.

   Tighten

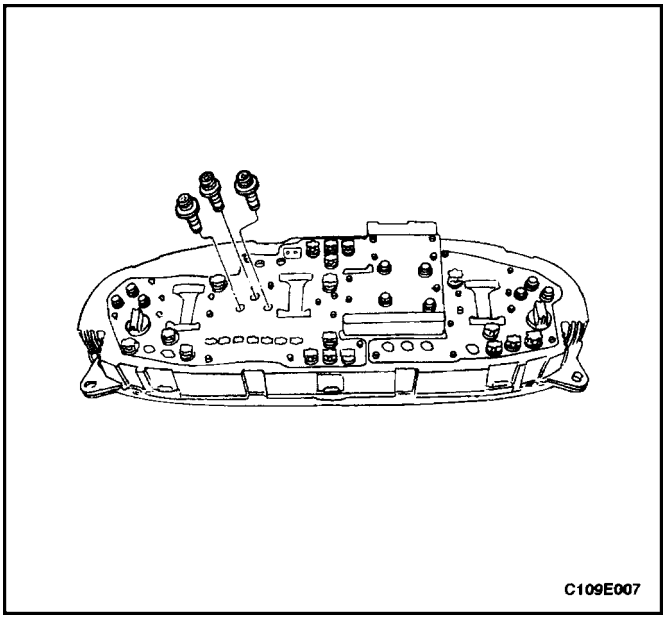
   Tighten the cluster illumination connector screws to 2 N•m (18 lb–in).
4. Install the instrument cluster. Refer to ” Instrument Cluster ” in this section.
5. Connect the negative battery cable.



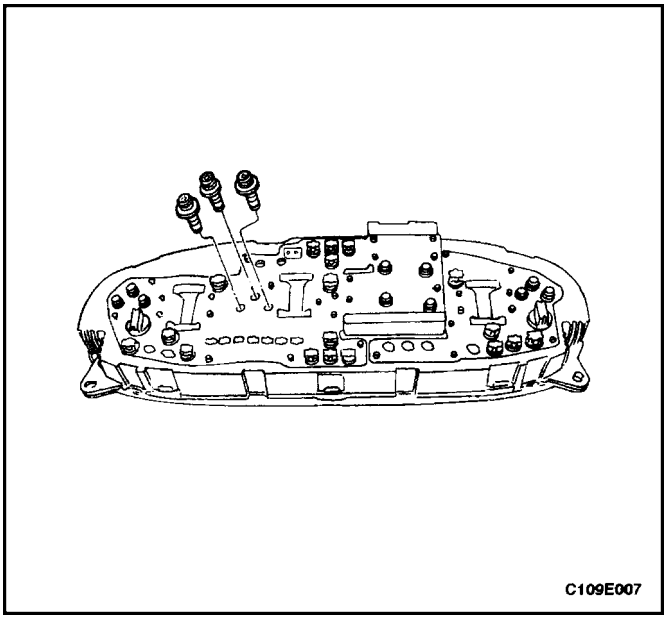
TACHOMETER

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the instrument cluster. Refer to ” Instrument Cluster ” in this section.
3. Remove the cluster illumination connector screws.


C109E007

4. Press the clips down and remove the instrument cluster lens.
5. Remove the screws and the tachometer from the instrument cluster.

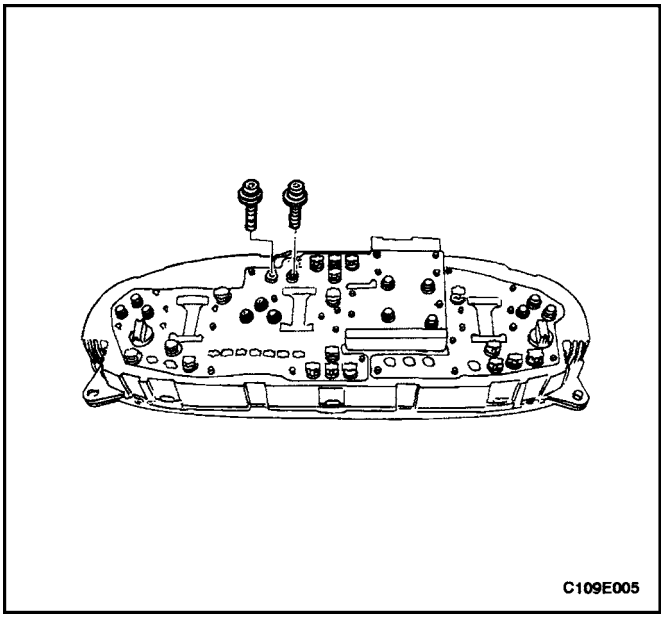

C109E007

Installation Procedure

1. Install the tachometer to the instrument cluster with the screws.

   Tighten

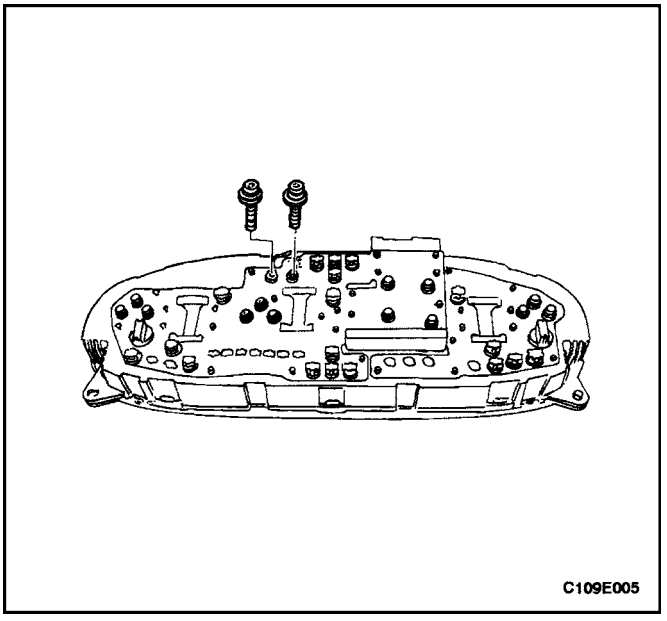
   Tighten the tachometer screws to 2 N•m (18 lb–in).


C109E005

2. Install the instrument cluster lens with the screws.
3. Install the cluster illumination connector screws.

   Tighten

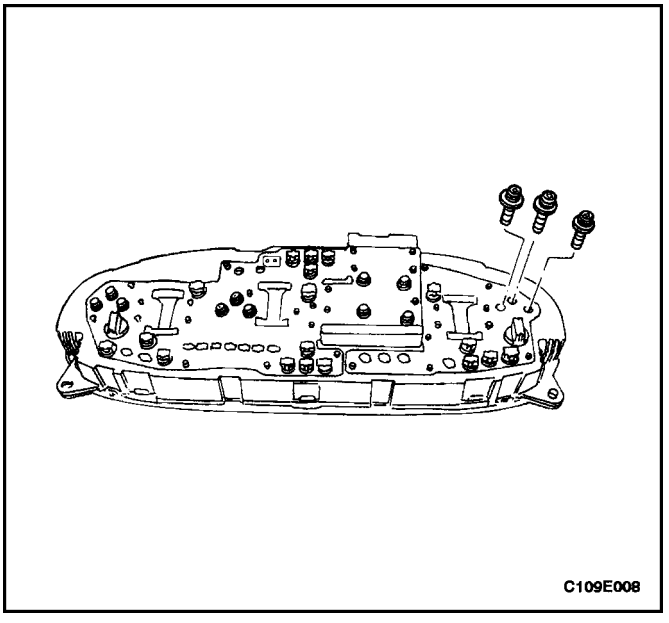
   Tighten the cluster illumination connector screws to 2 N•m (18 lb–in).
4. Install the instrument cluster. Refer to ” Instrument Cluster ” in this section.
5. Connect the negative battery cable.



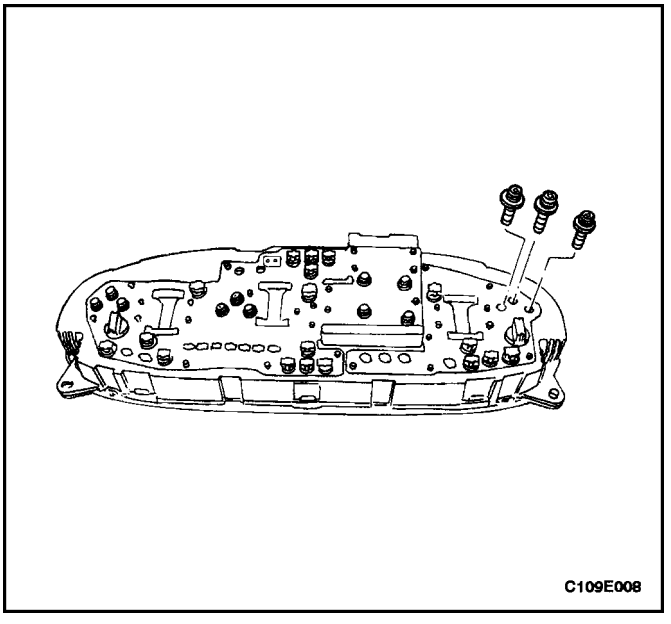
FUEL GAUGE

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the instrument cluster. Refer to ” Instrument Cluster ” in this section.
3. Remove the cluster illumination connector screws.
4. Press the clips down and remove the instrument cluster lens.



5. Remove the fuel gauge screws and the fuel gauge from the cluster assembly.

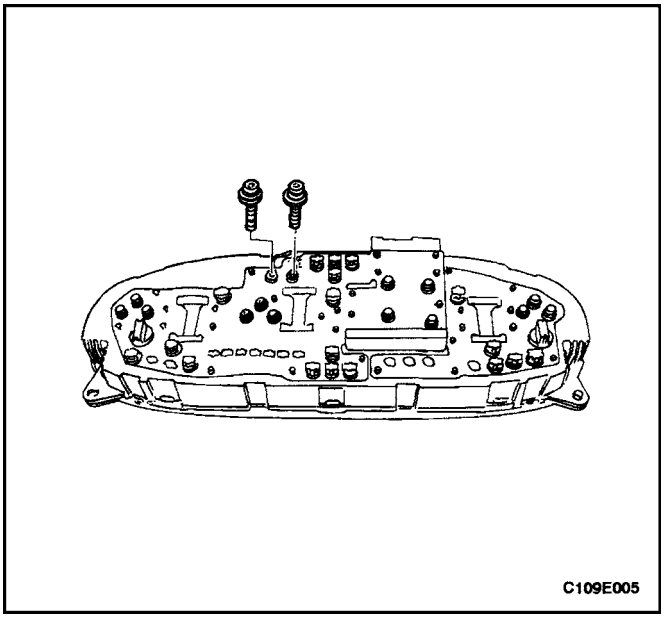


Installation Procedure

1. Install the fuel gauge to the cluster assembly with the screws.

   Tighten

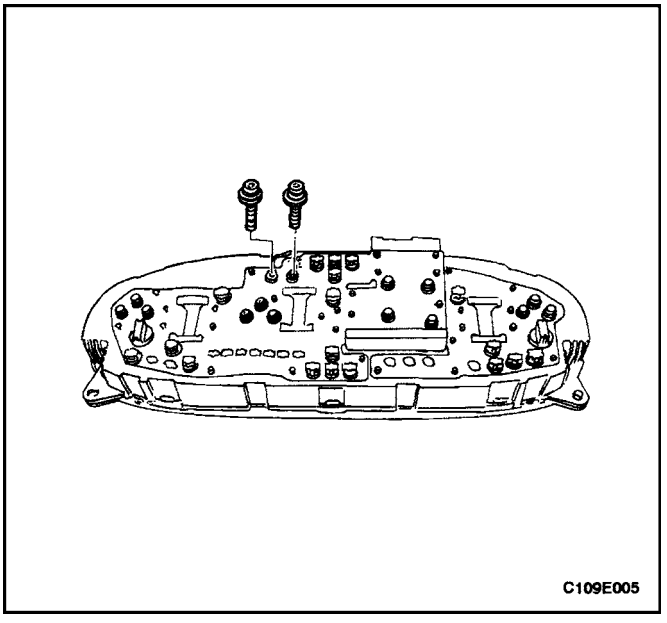
   Tighten the fuel gauge screws to 2 N•m (18 lb–in).


C109E005

2. Install the instrument cluster lens with the instrument cluster lens screws.
3. Install the cluster illumination connector screws.

   Tighten

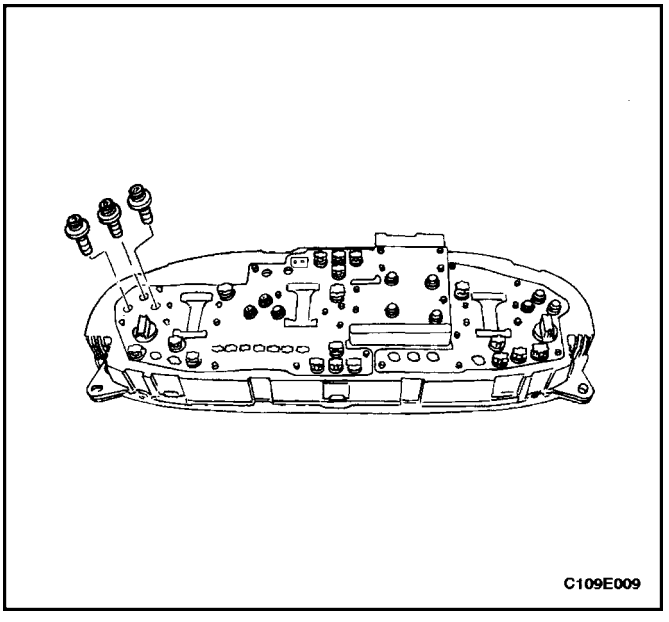
   Tighten the cluster illumination connector screws to 2 N•m (18 lb–in).
4. Install the instrument cluster. Refer to ” Instrument Cluster ” in this section.
5. Connect the negative battery cable.


C109E005

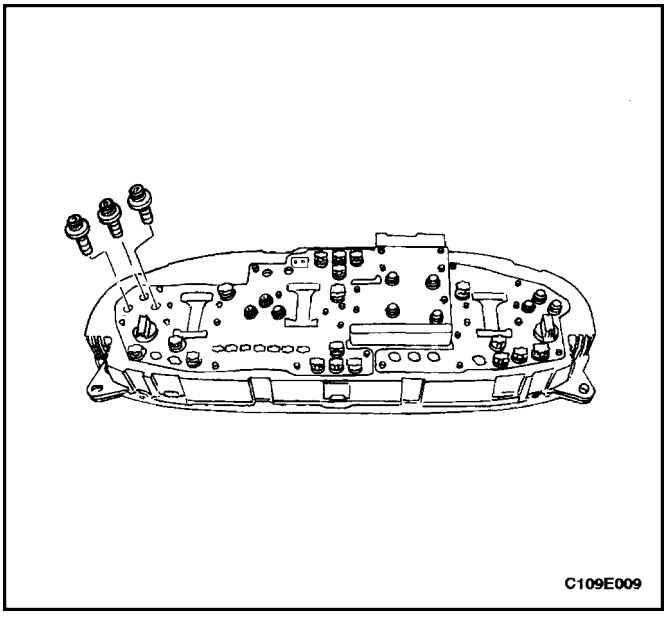
TEMPERATURE GAUGE

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the instrument cluster. Refer to ” Instrument Cluster ” in this section.
3. Remove the cluster illumination connector screws.
4. Press the clips down and remove the instrument cluster lens.


C109E009

5. Remove the screws and the temperature gauge from the cluster assembly.

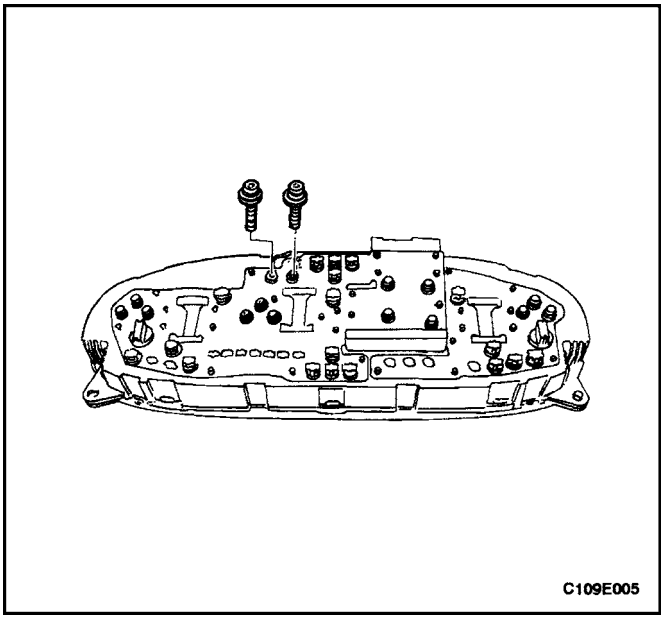

C109E009

Installation Procedure

1. Install the temperature gauge to the cluster assembly with the screws.

   Tighten

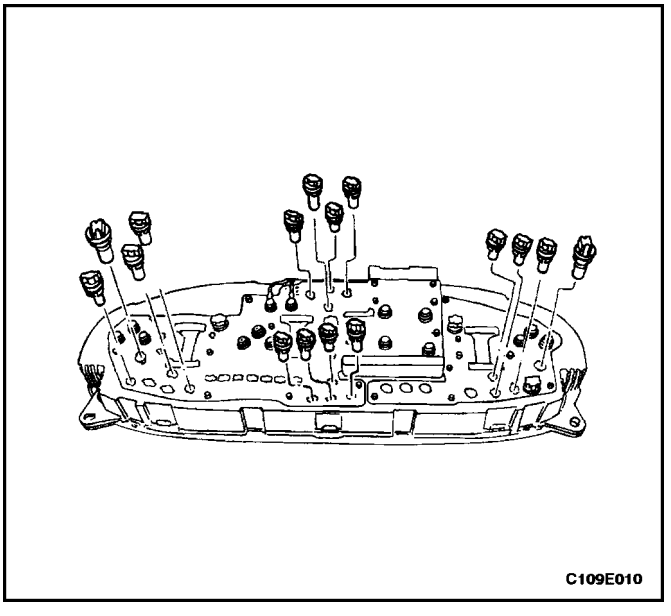
   Tighten the temperature gauge screws to 2 N•m (18 lb–in).


C109E005

2. Install the instrument cluster lens.
3. Install the cluster illumination connector screws.

   Tighten

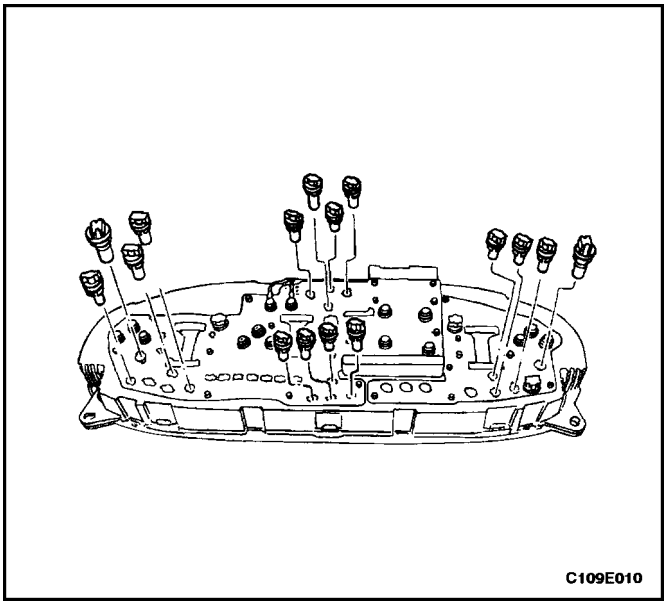
   Tighten the cluster illumination connector screws to 2 N•m (18 lb–in).
4. Install the instrument cluster. Refer to ” Instrument Cluster ” in this section.
5. Connect the negative battery cable.


C109E010

INSTRUMENT CLUSTER INDICATOR LAMPS

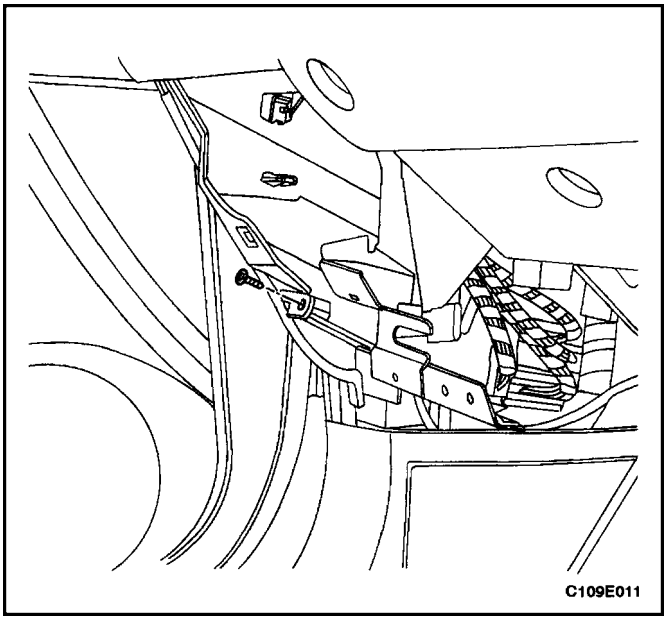
Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the instrument cluster. Refer to ” Instrument Cluster ” in this section.
3. Remove the defective bulb from the rear of the cluster.


C109E010

Installation Procedure

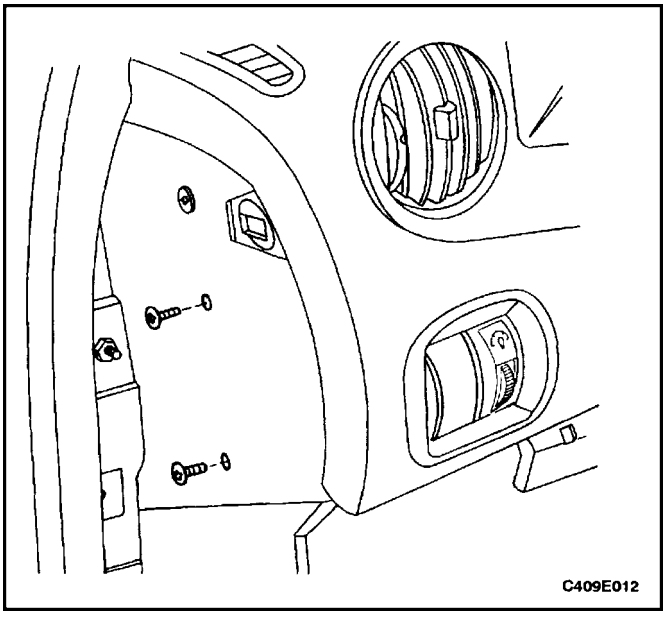
1. Install the new bulb.
2. Install the instrument cluster. Refer to ” Instrument Cluster ” in this section.
3. Connect the negative battery cable.


C109E011

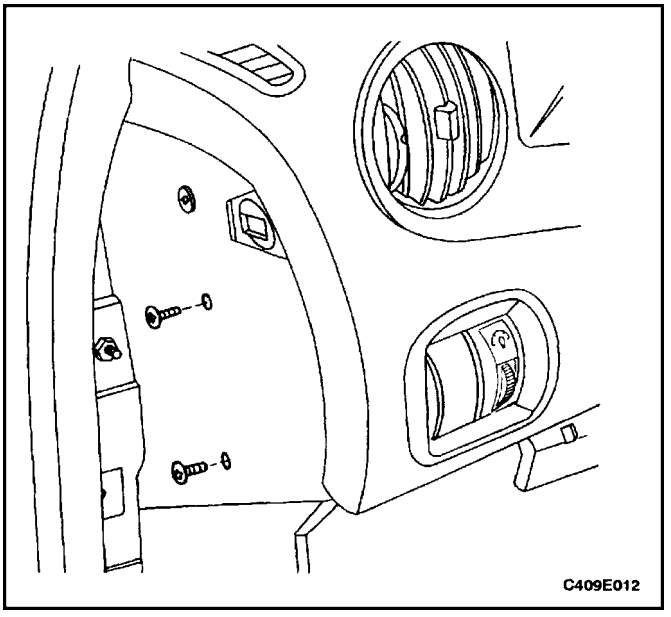
CHIME MODULE

Removal Procedure

1. Disconnect the negative battery cable.
2. Remove the hood release handle screw and the knee bolster trim panel. Refer to *Section 9G, Interior Trim.*
3. Remove the screw and the instrument panel side trim cover.


C409E012

4. Disconnect the electrical connector.
5. Remove the screws and the chime module.

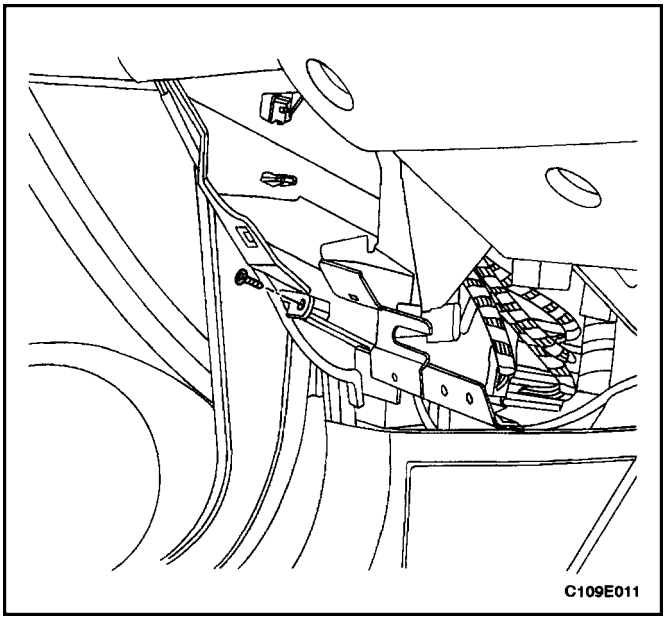


Installation Procedure

1. Install the chime module with the screws.

   Tighten

   Tighten the chime module screws to 4 N•m (35 lb–in).



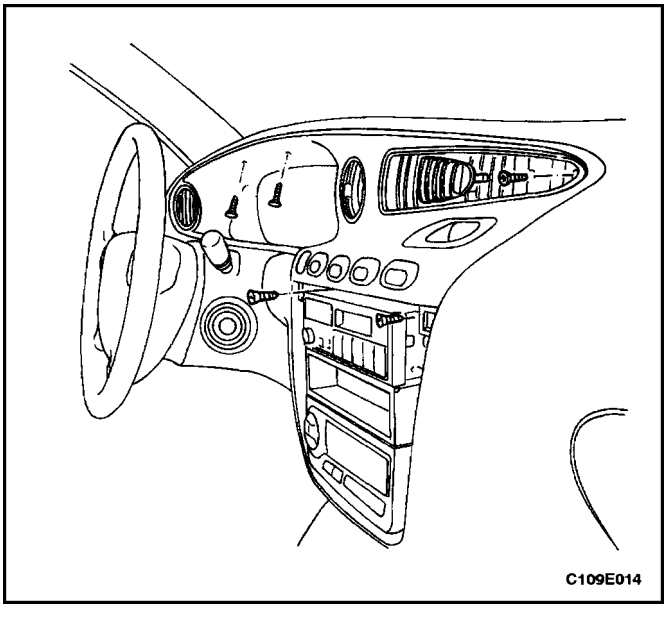
2. Connect the electrical connector.
3. Install the instrument panel side trim cover with the screw.

   Tighten

   Tighten the instrument panel side trim cover screw to 2.5 N•m (22 lb–in).
4. Install the knee bolster trim panel with the hood release handle screw. Refer to*Section 9G, Interior Trim.*

   Tighten

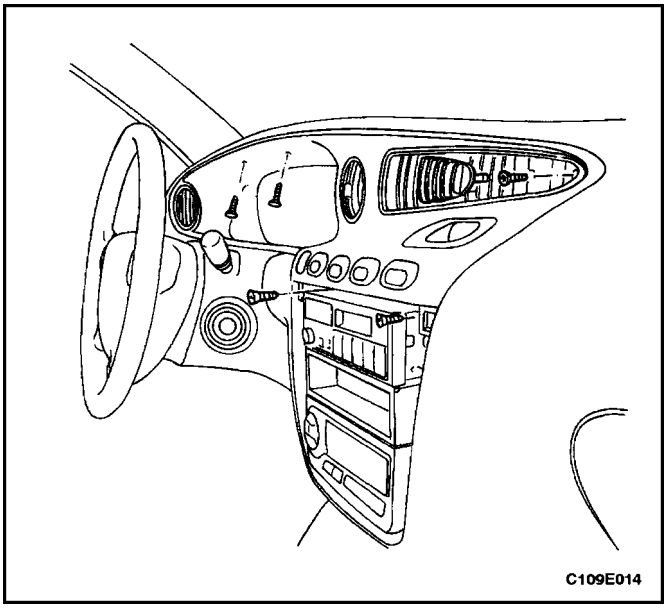
   Tighten the hood release handle screw to 2.5 N•m (22 lb–in).
5. Connect the negative battery cable.



INSTRUMENT CLUSTER TRIM PANEL

Removal Procedure

1. Remove the audio system trim plate.
2. Remove the screws and the instrument cluster trim panel.
3. Disconnect the electrical connectors.

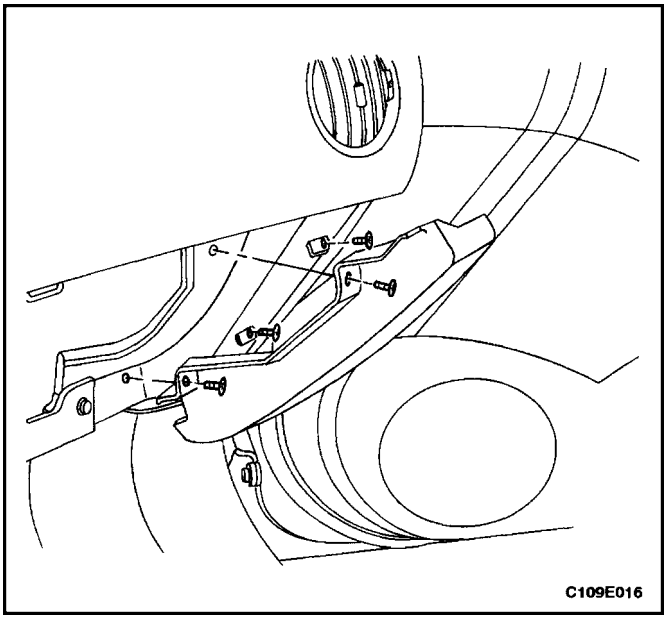


Installation Procedure

1. Connect the electrical connectors.
2. Install the instrument cluster trim panel with the screws.

   Tighten

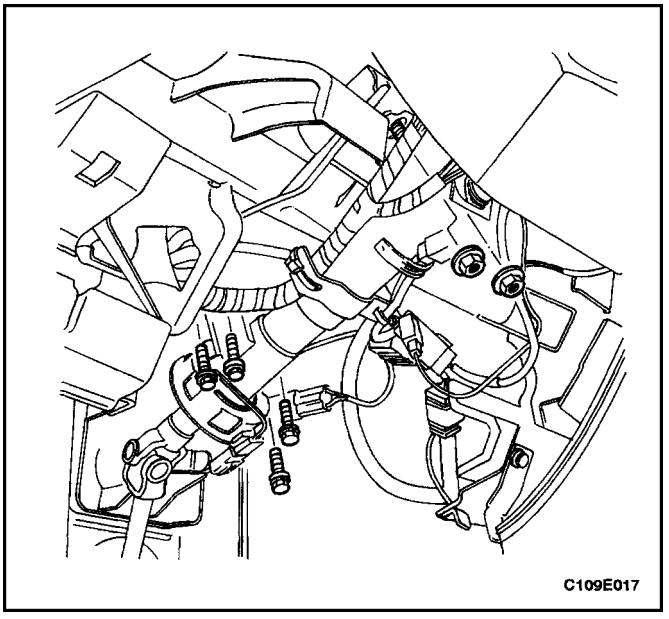
   Tighten the instrument cluster trim panel screws to 3 N•m (27 lb–in).
3. Install the audio system trim plate.



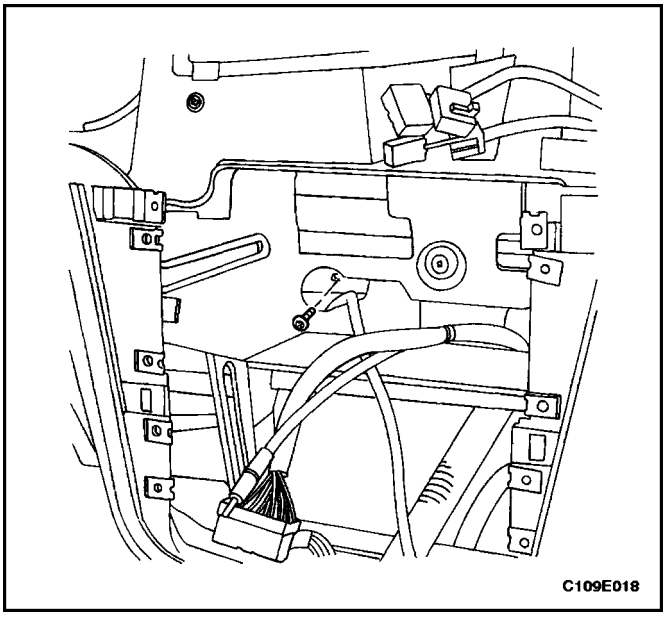
INSTRUMENT PANEL

Removal Procedure

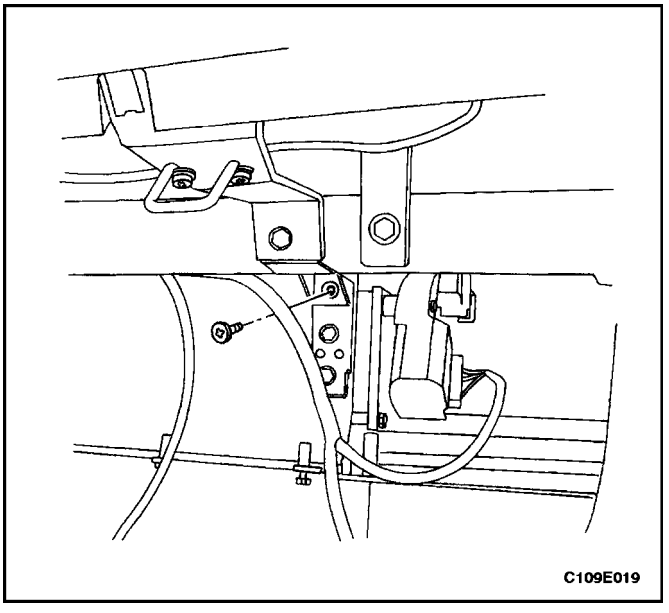
1. Disconnect the negative battery cable.
2. Remove the floor console. Refer to *Section 9G, Interior Trim.*
3. Remove the sun sensor and the automatic temperature controls assembly. Refer to*Section 7D, Automatic Temperature Control Heating, Ventilation, and Air Conditioning System.*
4. Remove the tweeter speakers and the stereo cassette AM/FM radio. Refer to*Section 9F, Audio Systems.*
5. Remove the screws and the instrument panel storage compartment.
6. Remove the instrument cluster dimmer switch assembly. Refer to” Instrument Cluster Dimmer Switch ” in this section.
7. Remove the instrument cluster. Refer to ” Instrument Cluster ” in this section.
8. Remove the chime module. Refer to ” Chime Module ” in this section.
9. Remove the kick panels. Refer to *Section 9G, Interior Trim.*
10. Remove the glove box. Refer to ” Glove Box ” in this section.
11. Remove the screws and the glove box housing.
12. Disconnect the glove box housing electrical connectors.
13. Remove the knee bolster. Refer to *Section 9G, Interior Trim.*


C109E017

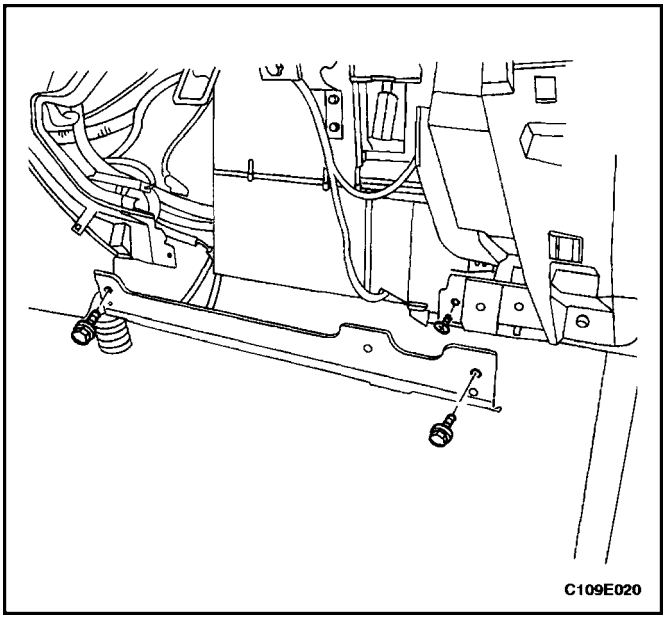
14. Remove the nuts and the bolts securing the steering column.


C109E018

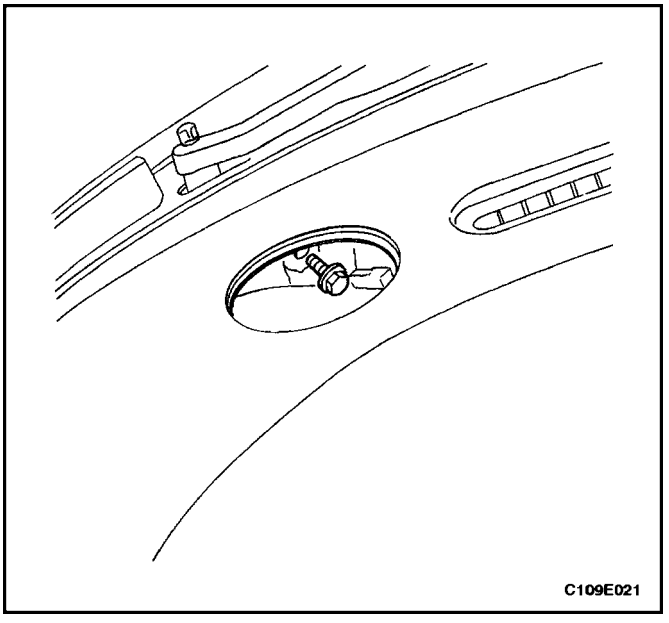
15. Disconnect the steering column electrical connectors.
16. Lower the steering column.
17. Remove the screw behind the stereo cassette AM/FM radio.


C109E019

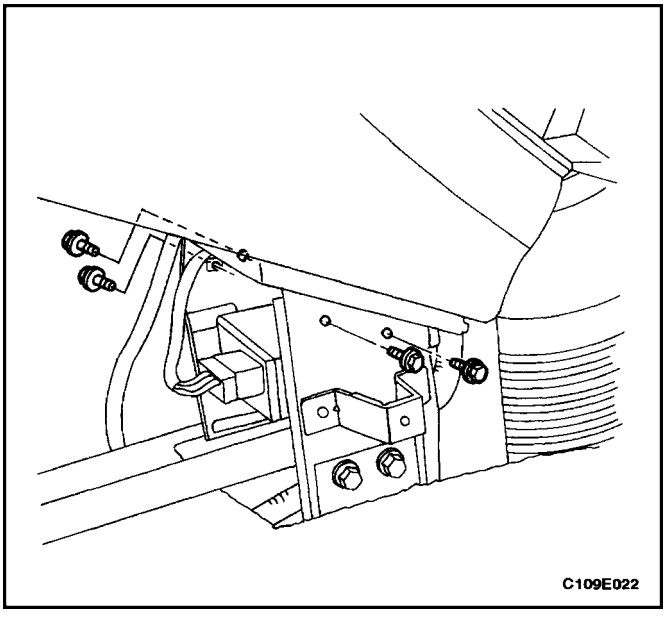
18. Remove the screw securing the instrument panel to the heater air distributor case.



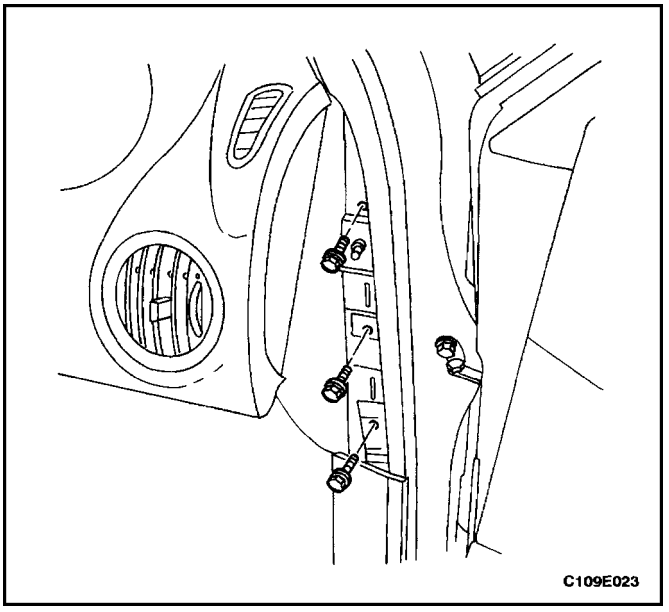
19. Remove the bolts and the glove box brace.
20. Remove the instrument panel screw behind the glove box brace.



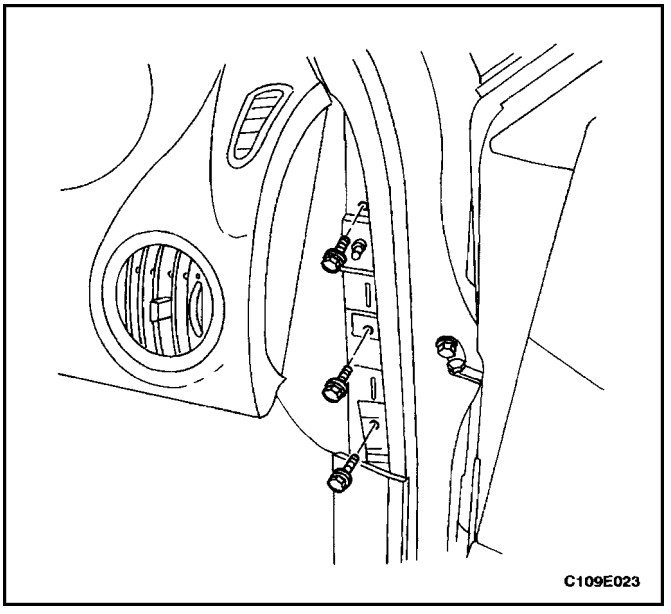
21. Remove the instrument panel bolts below the windshield.



22. Remove the bolts securing the bottom of the instrument panel to the floor.



23. Remove the bolts securing the sides of the instrument panel to the body.
24. Disconnect the instrument panel electrical connectors.
25. Remove the instrument panel.



Installation Procedure

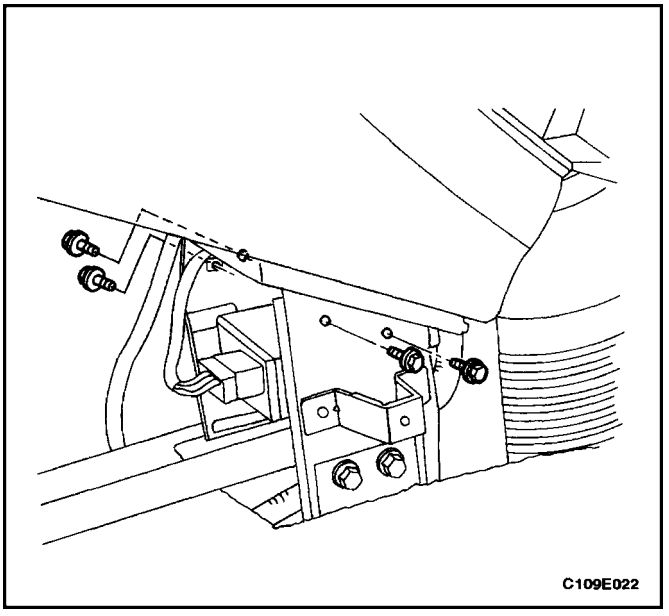
1. Position the instrument panel in the vehicle.
2. Connect the instrument panel electrical connectors.

Notice : Dissimilar metals in direct contact with each other may corrode rapidly. Make sure to use the correct fasteners to prevent premature corrosion.

3. Install the bolts securing the sides of the instrument panel to the body.

   ### Tighten

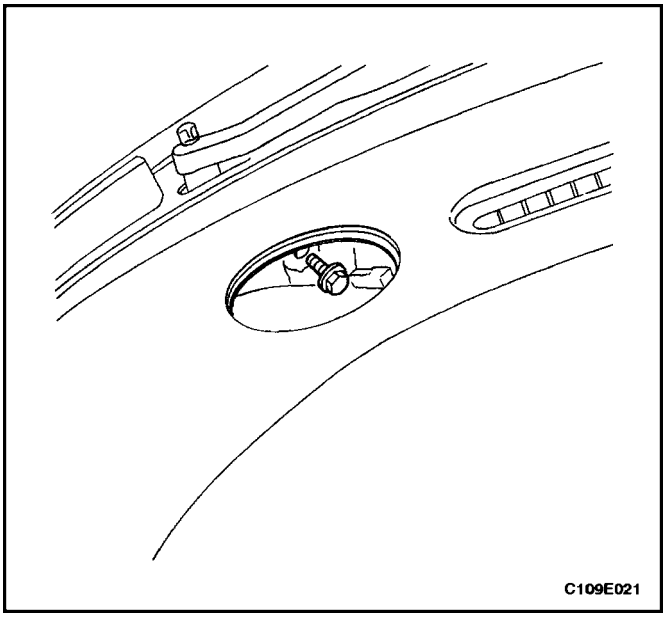
   Tighten the instrument panel–to–body bolts to 22 N•m (16 lb–ft).



4. Install the bolts securing the bottom of the instrument panel to the floor.

   ### Tighten

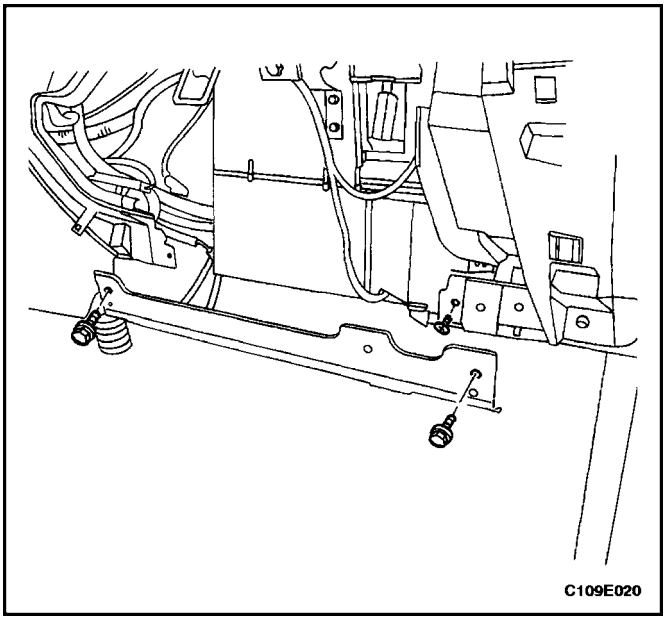
   Tighten the instrument panel–to–floor bolts to 22 N•m (16 lb–ft).



5. Install the instrument panel bolts below the windshield.

Tighten

Tighten the instrument panel bolts below the wind–shield to 22 N•m (16 lb–ft).



6. Install the instrument panel screw behind the glove box brace.

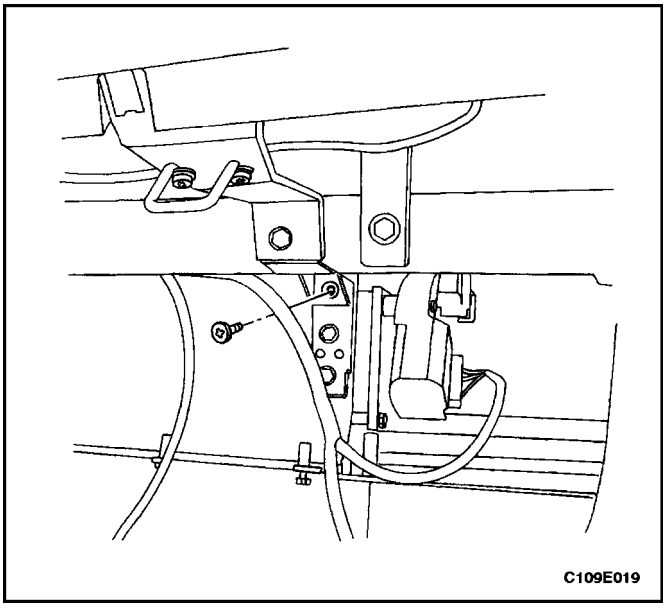
Tighten

Tighten the instrument panel screw behind the glove box brace to 2.5 N•m (22 lb–in).

7. Install the glove box brace with the bolts.

Tighten

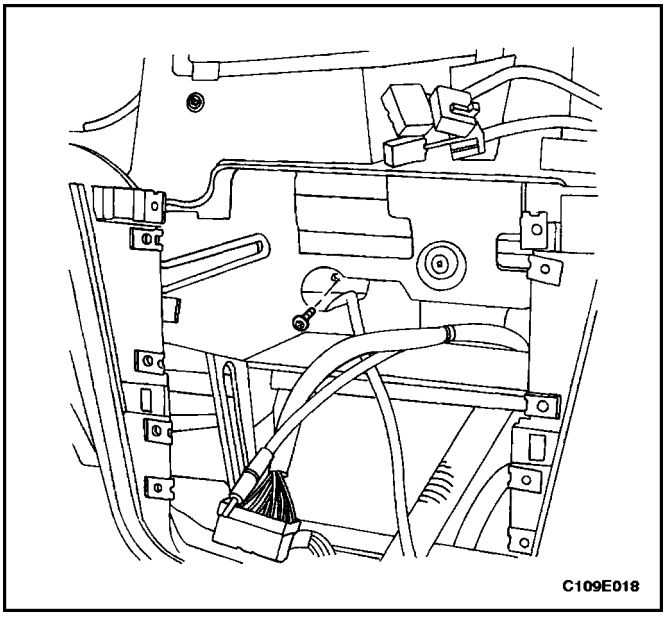
Tighten the glove box brace bolts to 10 N•m (89 lb–in).



8. Install the screw securing the instrument panel to the heater air distributor case.

Tighten

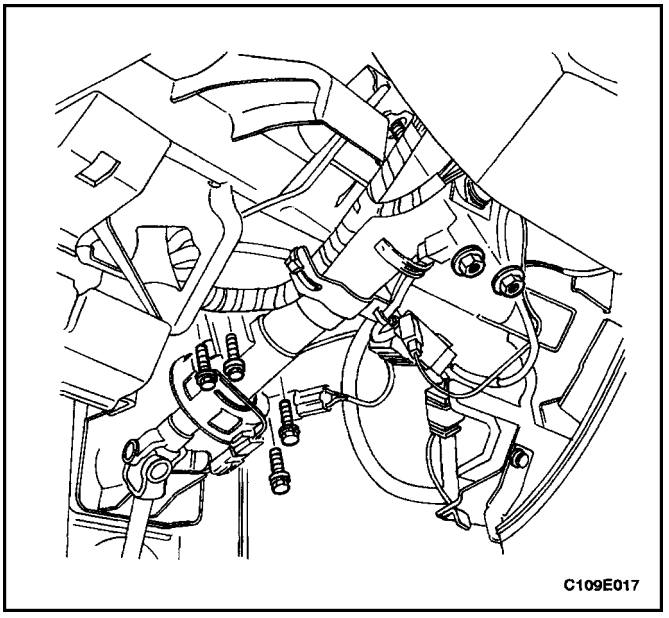
Tighten the instrument panel–to–heater air distributor case screw to 4 N•m (35 lb–in).


C109E018

9. Install the screw behind the stereo cassette AM/FM radio.

Tighten

Tighten the instrument panel screw behind the audio system to 3 N•m (27 lb–in).

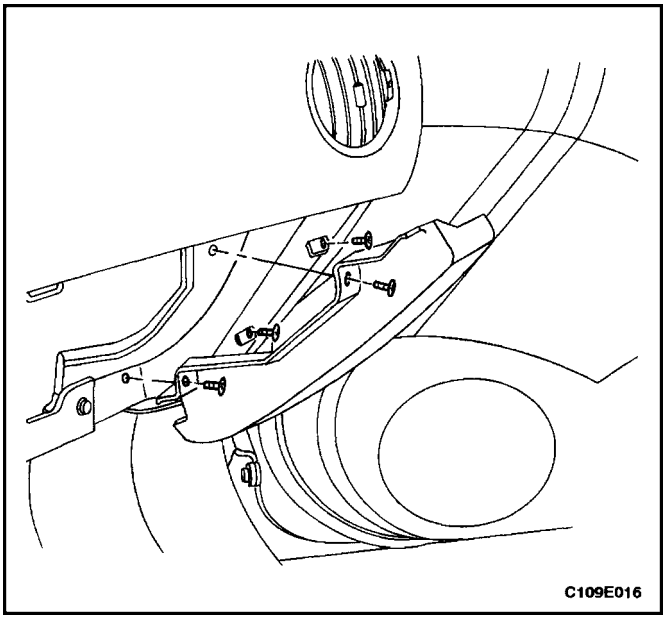

C109E017

10. Raise the steering column.
11. Connect the steering column electrical connectors.
12. Install the nuts and the bolts securing the steering column.

Tighten

Tighten the steering column nuts to 22 N•m (16 lb–ft).

Tighten the steering column bolts to 22 N•m (16 lb–ft).



13. Install the knee bolsters. Refer to *Section 9G, Interior Trim.*

    Tighten

    Tighten the passenger side knee bolster trim panel screws to 3 N•m (27 lb–in).
14. Connect the glove box housing electrical connectors.
15. Install the glove box housing with the screws.

    Tighten

    Tighten the glove box housing screws to 2.5 N•m (22 lb–in).
16. Install the glove box. Refer to ” Glove Box ” in this section.
17. Install the kick panels. Refer to *Section 9G, Interior Trim.*
18. Install the chime module. Refer to ” Chime Module ” in this section.
19. Install the instrument cluster. Refer to ” Instrument Cluster” in this section.
20. Install the instrument cluster dimmer switch assembly. Refer to” Instrument Cluster Dimmer Switch ” in this section.
21. Install the instrument panel storage compartment with the screws.

    Tighten

    Tighten the instrument panel storage compartment screws to 2.5 N•m (22 lb–in).
22. Install the tweeter speakers and the stereo cassette AM/FM radio. Refer to*Section 9F, Audio Systems.*
23. Install the sun sensor and the automatic temperature controls assembly. Refer to*Section 7D, Automatic Temperature Control Heating, Ventilation, and Air Conditioning System.*
24. Install the floor console. Refer to *Section 9G, Interior Trim.*
25. Connect the negative battery cable.

GENERAL DESCRIPTION AND SYSTEM OPERATION

CIGAR LIGHTER

The cigar lighter is located in the front portion of the floor console. To use the lighter, push it in completely. When the lighter is hot, it will release itself from contact with the heating element. The lighter and the heating element can be damaged if the lighter does not fully release itself from the heating element.

ASHTRAY

The ashtray is located in the console. To access the ashtray, pull it out of the ashtray housing. The ashtray lamp will go on when the parking lamps or headlamps are turned on.

INSTRUMENT PANEL VENTS

The center and the side vents in the instrument panel can be adjusted up and down and from side to side. The side vents can also be aimed toward the side windows to defog them.

GLOVE BOX

The glove box can be opened by pulling up on the latch handle. The glove box must be removed to gain access to the passenger side airbag module, (if equipped).

DIGITAL CLOCK

The digital clock is located on the instrument panel above the radio. The clock is capable of an outside temperature display and a 12–hour or a 24–hour display.

INSTRUMENT CLUSTER

The instrument cluster is located above the steering column and in the instrument cluster trim panel. The instrument cluster contains the instruments that provide the driver with vehicle performance information. The instrument cluster contains a speedometer, a tachometer, an odometer, a trip odometer, a temperature gauge, a fuel gauge, and several indicator lamps. For replacement of the indicator lamp bulbs contained in the instrument cluster, refer to”Instrument Cluster Indicator Lamps Specifications” in this section.

SPEEDOMETER

The speedometer measures the speed of the vehicle in km/h or mph (with km/h). It consists of an instrument cluster gauge connected to the vehicle speed sensor on the transaxle output shaft.

TRIP ODOMETER

The trip odometer measures the distance the vehicle has traveled since it was last reset. It consists of an instrument cluster gauge connected to the sending unit on the transaxle output shaft. The trip odometer can be reset to zero at any time so that the driver can record the distance traveled from any starting point.

FUEL GAUGE

The fuel gauge consists of an instrument cluster gauge connected to a sending unit in the fuel tank.

The fuel gauge indicates the quantity of fuel in the tank only when the ignition is turned to ON or ACC. When the ignition is turned to LOCK or START, the pointer may come to rest at any position.

TEMPERATURE GAUGE

The temperature gauge consists of an instrument cluster gauge connected to a temperature sensor that is in contact with the circulating engine coolant.

The temperature gauge indicates the temperature of the coolant. Prolonged driving or idling in very hot weather may cause the pointer to move beyond the center of the gauge. The engine is overheating if the pointer moves into the red zone at the upper limit of the gauge.

INSTRUMENT CLUSTER INDICATOR LAMPS

The instrument cluster contains indicator lamps that indicate the functioning of certain systems or the existence of potential problems with the operation of the vehicle. The indicator lamps are replaceable. For replacement of the indicator lamps contained in the instrument cluster, refer to ”Instrument Cluster Indicator Lamps Specifications” in this section.

TACHOMETER

The tachometer measures the engine’s speed in terms of thousands of revolutions per minute. It consists of an instrument cluster gauge connected to a sending unit in the engine control module.

Do not operate the engine in the red zone. Engine damage may occur.

CHIME MODULE

The chime module will sound to bring attention to one or more of the following conditions:

- The lights are on and the ignition is not in ACC, ON, or START.
- The ignition key is in the ignition switch when the driver’s side door is open.
- The seat belt is unbuckled when the ignition is in ACC, ON, or START.

Voltage is supplied at all times through the fuse block to power the chime module.