

Entertainment

Specifications

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Amplifier Bolt	4 N·m	35 lb in
Antenna Bracket Bolt	5 N·m	44 lb in
Antenna Mast	5 N·m	44 lb in
Compact Disc Changer Bracket Bolt	1.9 N·m	17 lb in
Compact Disc Changer Mounting Nut	2.5 N·m	22 lb in
Door Speaker Bolt	2.5 N·m	22 lb in
Radio Bracket Bolt	1.8 N·m	16 lb in
Speaker Bolt	2 N·m	18 lb in

GM SPO Group Numbers

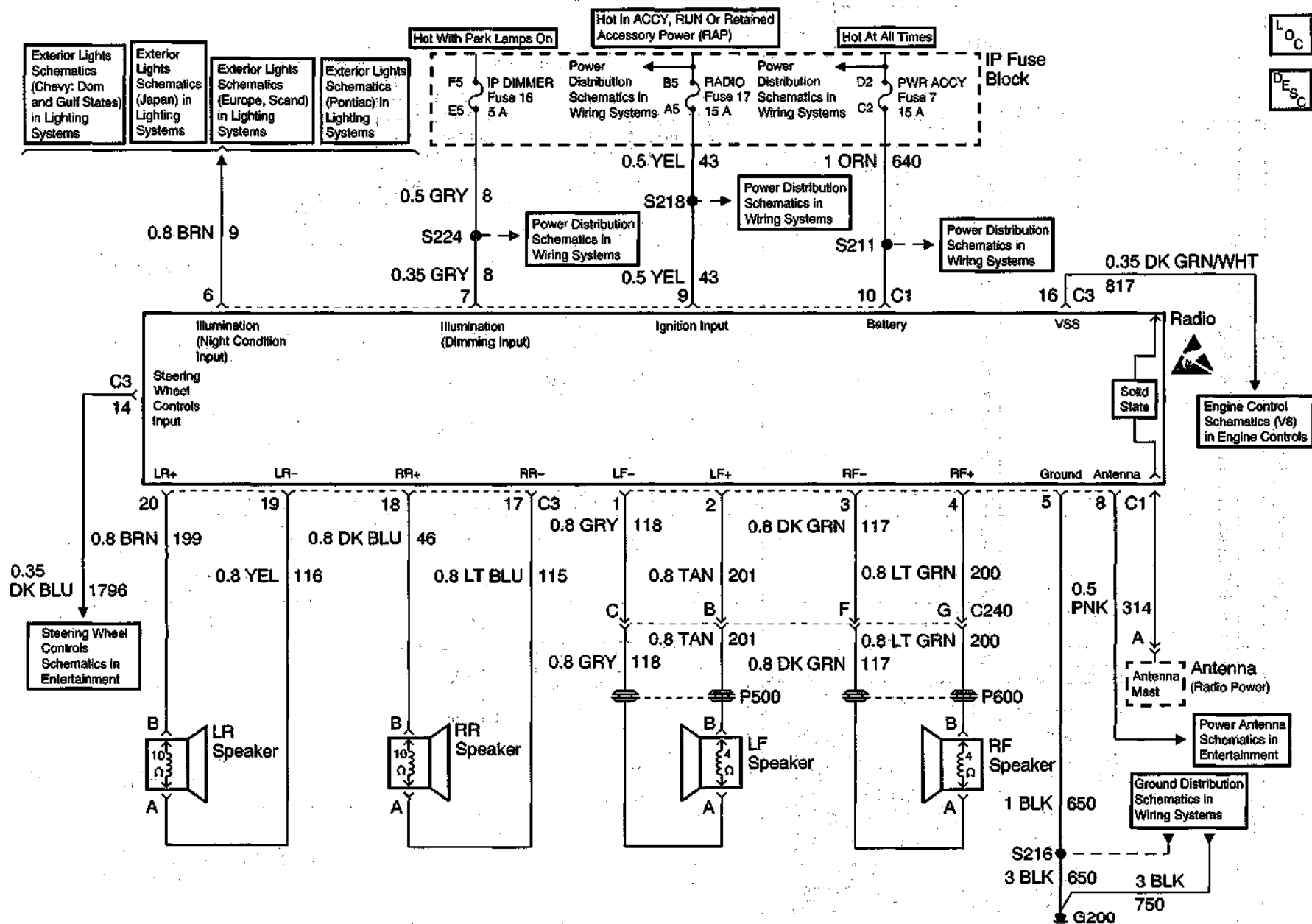
Application	GM SPO Group Number
Compact Disc Player	9.000
Compact Disc Player Cartridge	9.000
Low Frequency Audio Amplifier	9.000
Radio	9.000
Radio Antenna	9.000
Radio Antenna Bracket	9.000
Radio Antenna Cable	9.000
Radio Control Module	6.000
Radio Front Side Door Speaker	9.000
Radio Front Side Door Speaker Grille	9.000
Radio Power Antenna	9.000
Radio Quarter Speaker	9.000
Radio Quarter Speaker Grille	9.000
Radio Rear Quarter Trim Panel Speaker	9.000
Rear Quarter Speaker Grille	9.000
Steering Wheel Pad Accessory Wiring Harness	2.000

Schematic and Routing Diagrams

Entertainment Schematic Icons

Icon	Icon Definition
 19384	Refer to <i>ESD Notice</i> in Cautions and Notices.
 19386	Refer to <i>SIR Service Precautions Caution</i> in Cautions and Notices.

Radio/Audio System Schematics (UQ0, W53) (Pontiac and Chevrolet Domestic Coupe: Radio, Front and Rear Speakers)

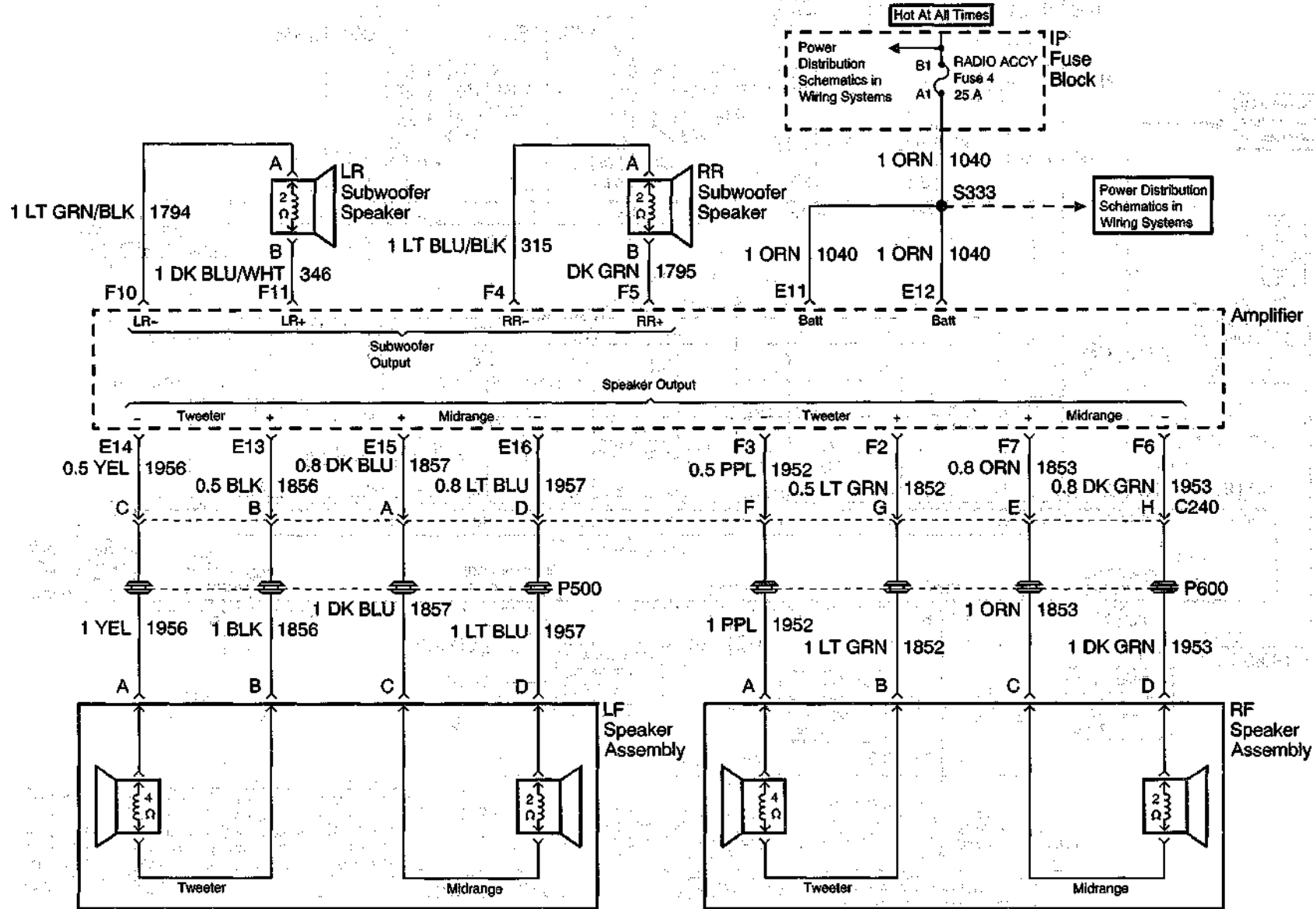


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Body and Accessories

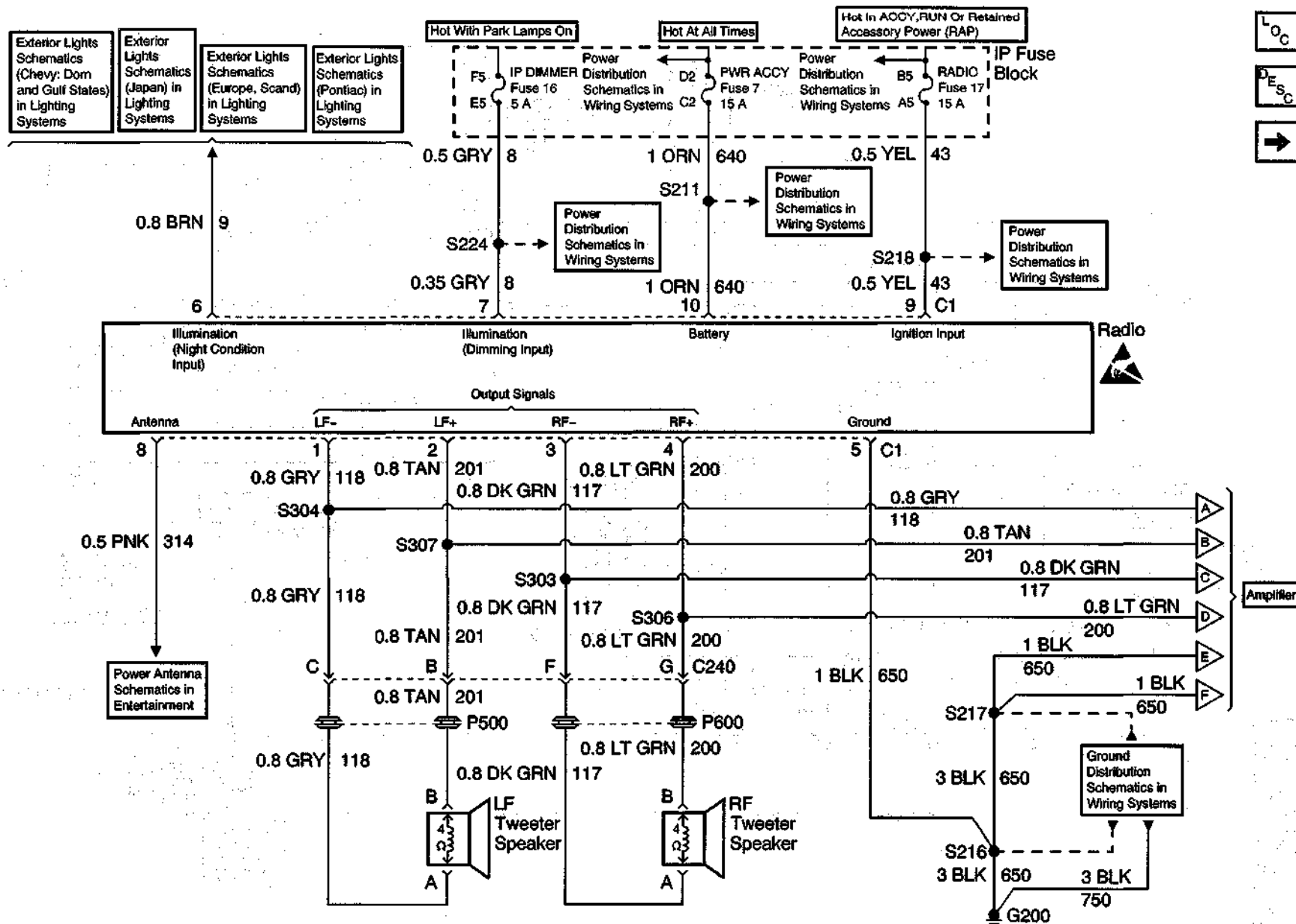


Radio/Audio System Schematics (UZ7) (Chevrolet Domestic, Europe, Japan,
Gulf States Coupe: Amplifier, Subwoofer Speakers, Front Speakers)

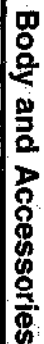


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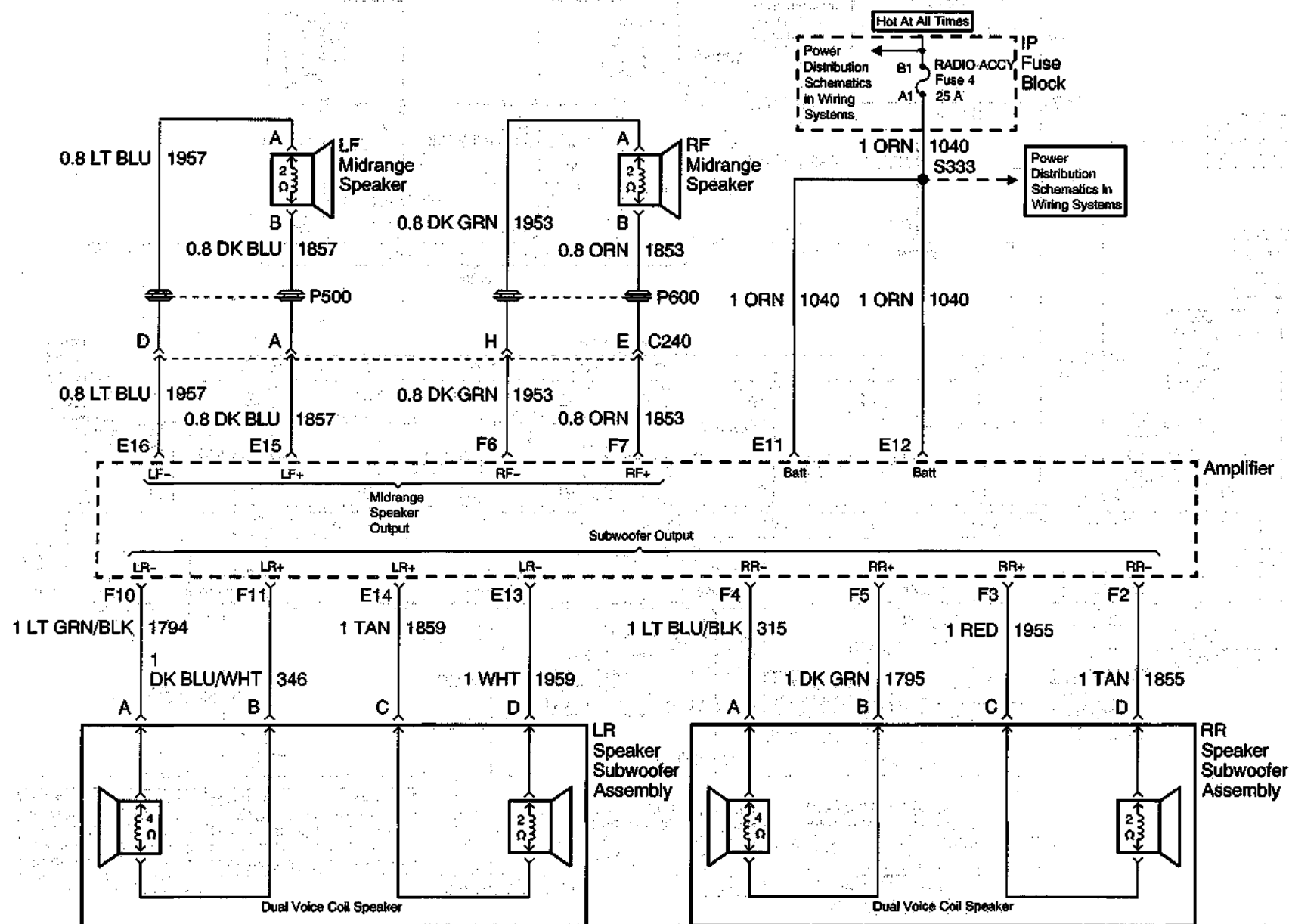
Radio/Audio System Schematics (W54,W55, X10, X20) (Pontiac Coupe: Radio, Front Tweeter Speakers)



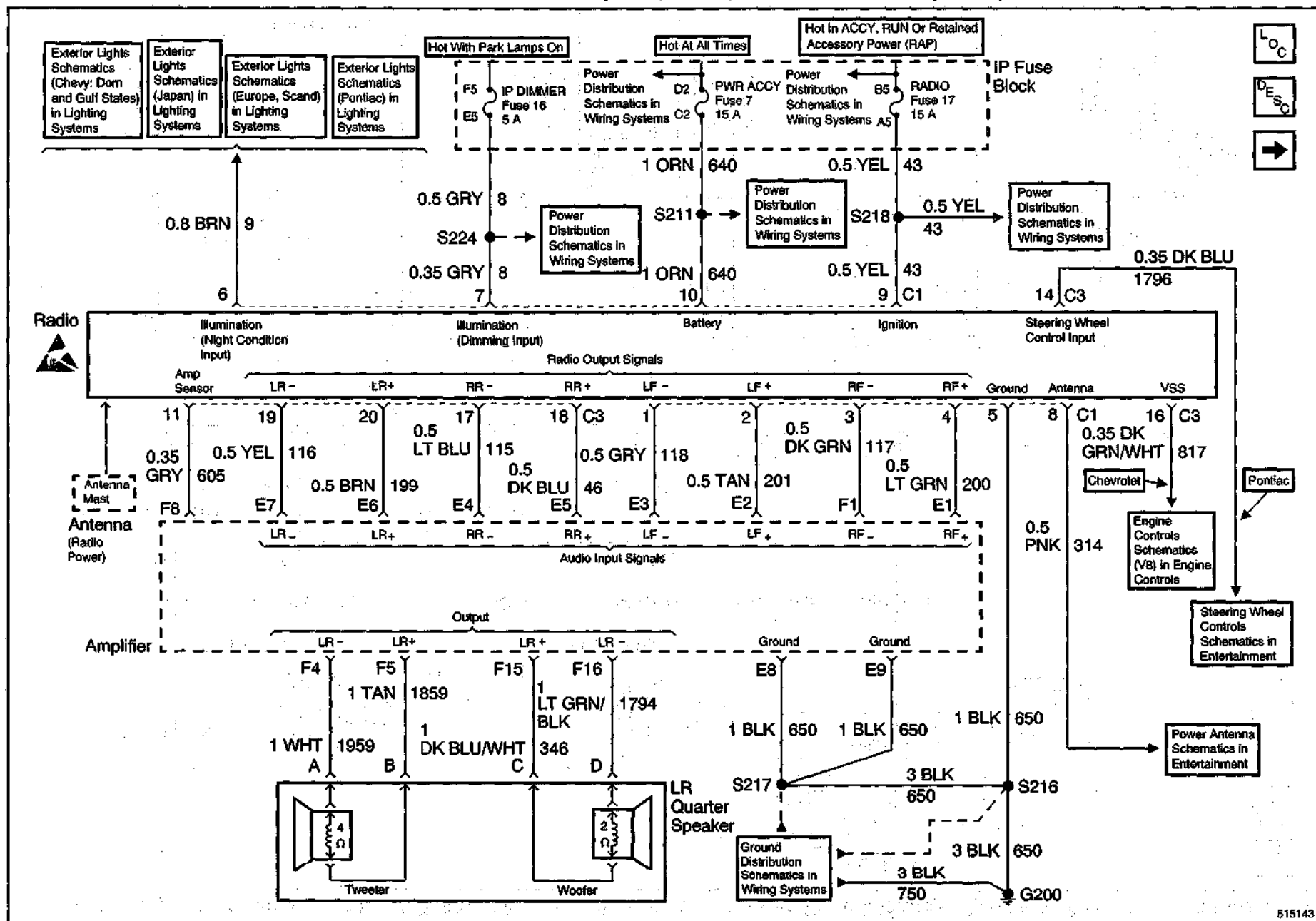
8-278 Entertainment



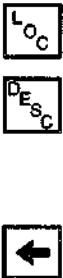
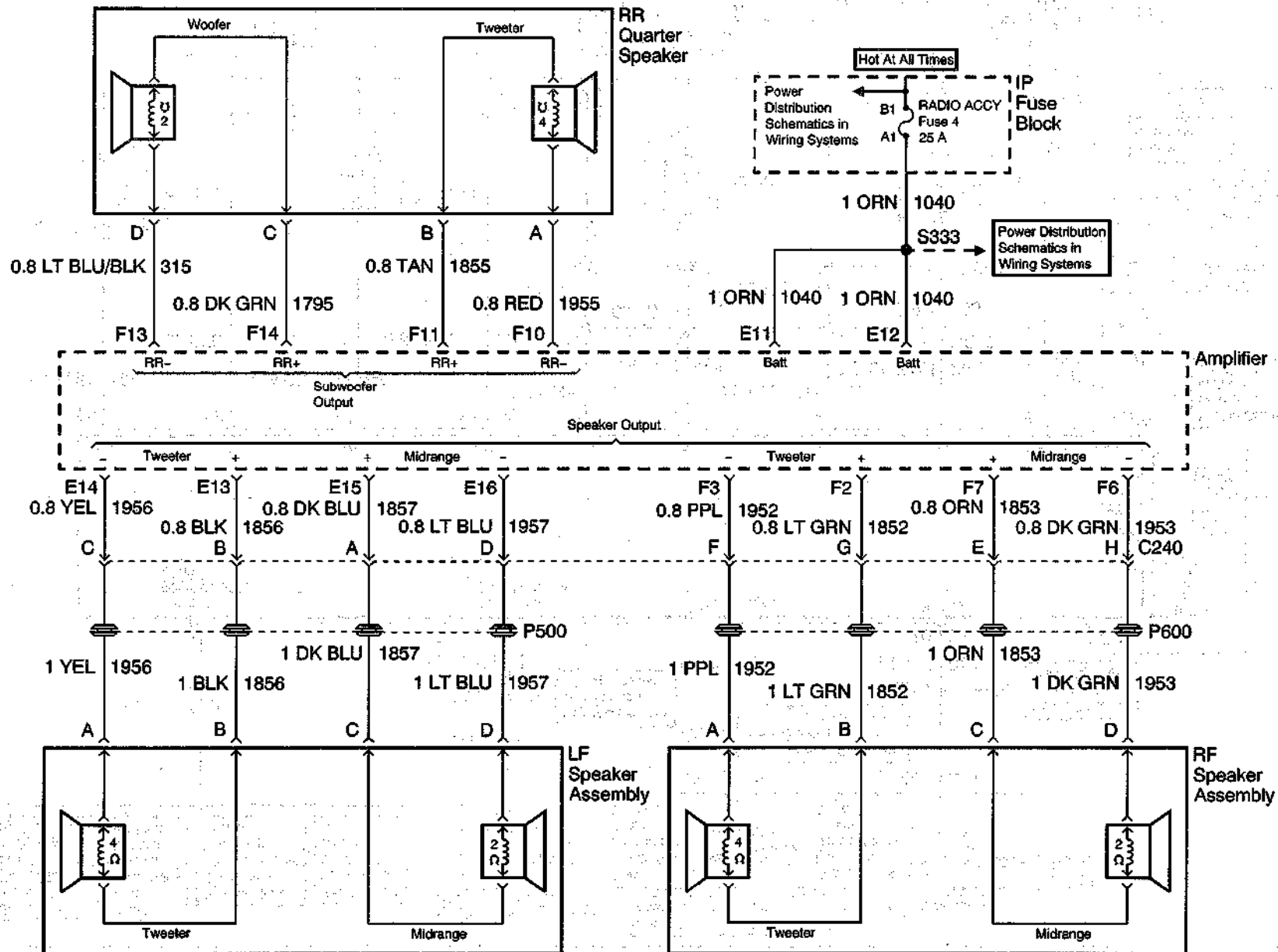
Radio/Audio System Schematics (W54,W55, X10, X20) (Pontiac Coupe: Amplifier, Front Midrange Speakers, Rear Subwoofer Speakers)



Radio/Audio System Schematics (U59) (Pontiac, Chevrolet:Domestic, Europe, Japan, Gulf States Convertible: Amplifier, Radio, Left Rear Quarter Speaker)



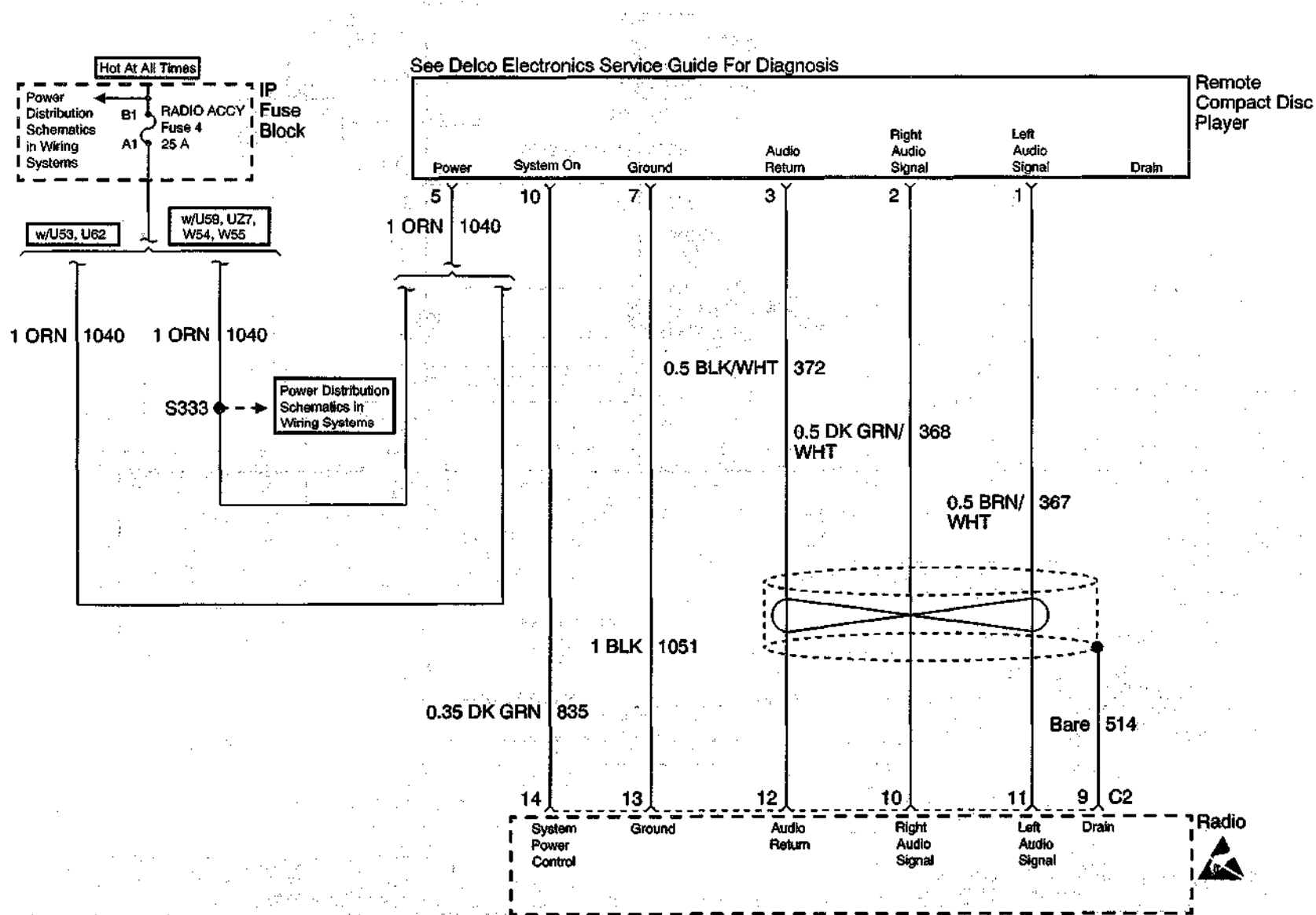
Radio/Audio System Schematics (U59) (Pontiac, Chevrolet:Domestic, Europe, Japan, Gulf States Convertible: Amplifier, Front Speakers, Right Rear Quarter Speaker)



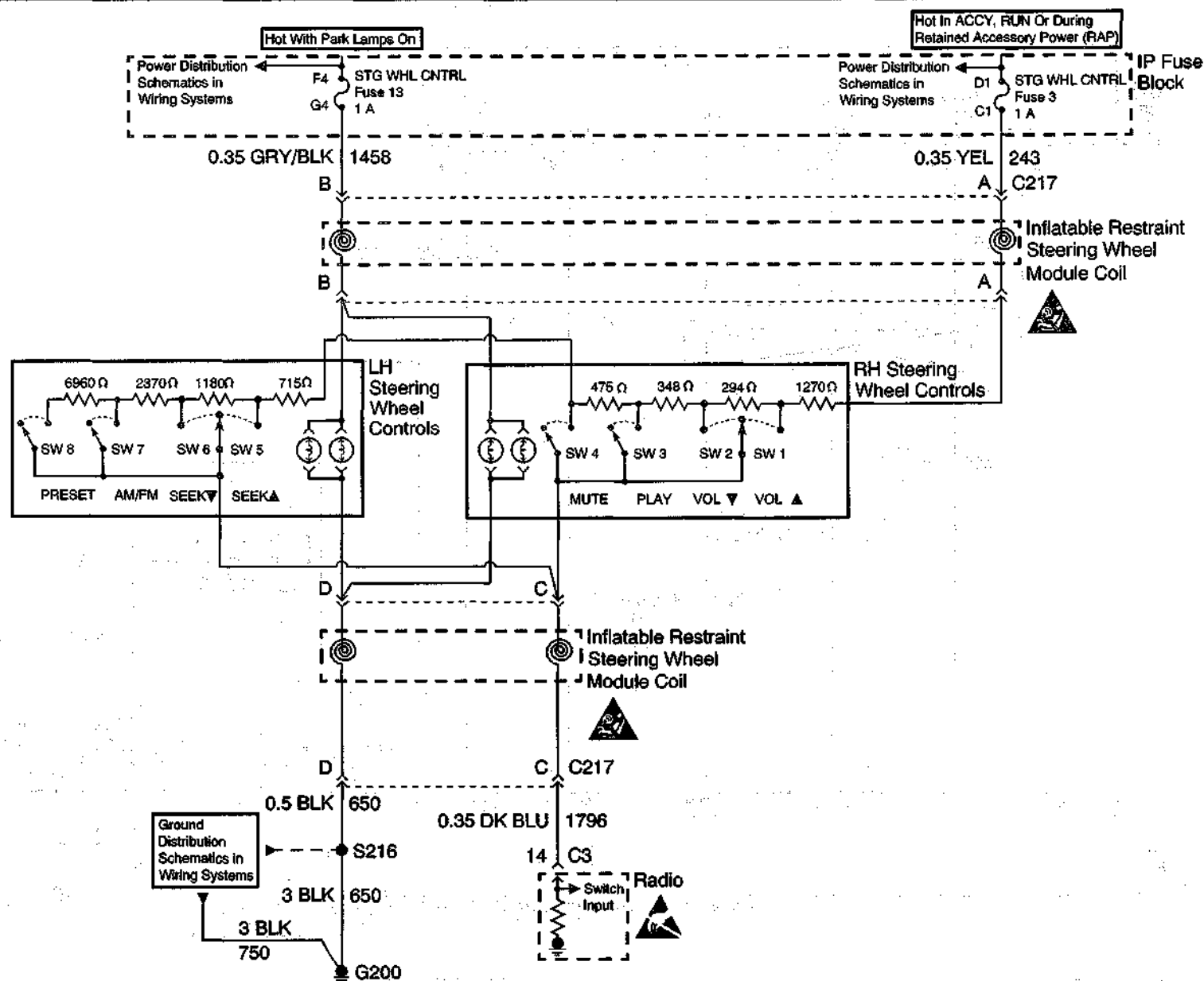
8-282 Entertainment



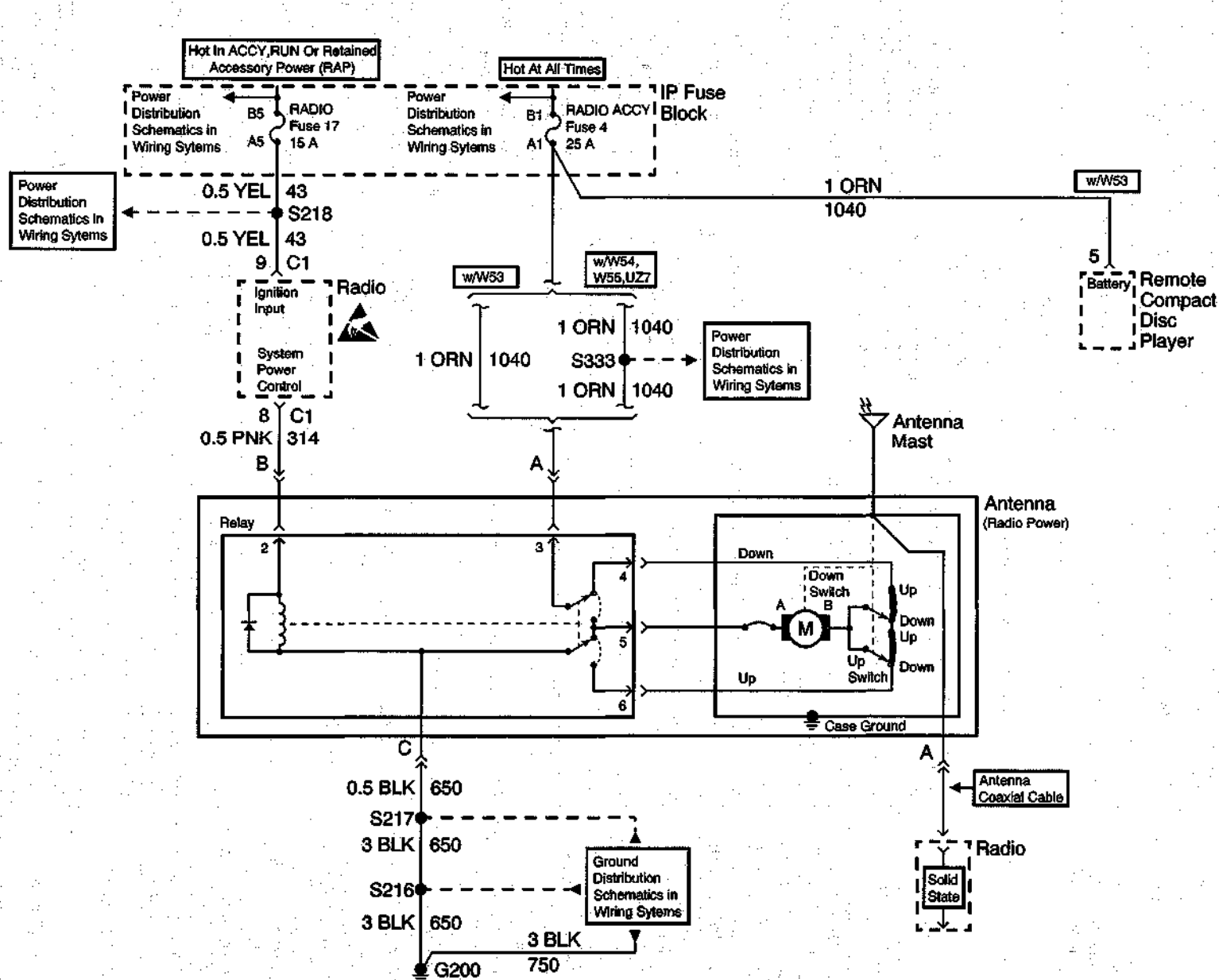
Radio/Audio System Schematics (Remote CD Player) (Coupe and Convertible: Radio, Remote Compact Disc Player)



Steering Wheel Controls Schematics (Pontiac and Chevrolet Domestic) (Coupe and Convertible: Steering Wheel Controls, Inflatable Restraint Steering Wheel Module Coil, Radio)



Power Antenna Schematics (Pontiac, Chevrolet: Japan, Europe) (Coupe and Convertible: Antenna, Radio)



Component Locator

Entertainment Components

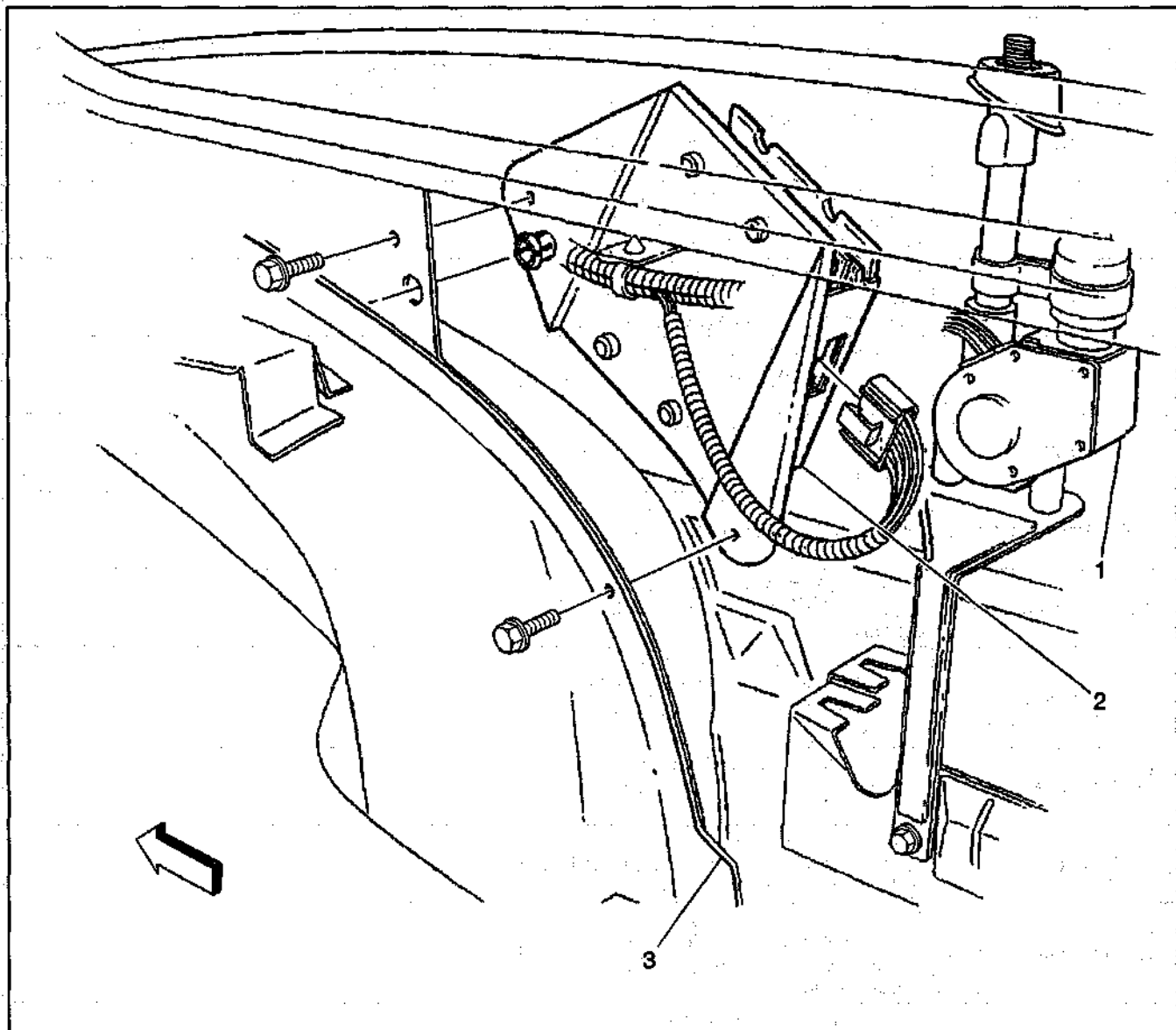
Name	Location	Locator View	Connector End View
Amplifier	Mounted behind the right rear quarter inner trim panel	Entertainment Component Views	Entertainment Connector End Views
Antenna (Radio Power)	Mounted behind the right rear quarter inner trim panel	Entertainment Component Views	Entertainment Connector End Views
Inflatable Restraint Steering Wheel Module Coil	On top of the steering column	SIR Component Views in SIR	—
IP Fuse Block	On the left end of the IP carrier	Instrument Panel, Gauges, and Console Component Views in Instrument Panel, Gauges and Console	—
Radio	In the center of the IP, above the HVAC control	Entertainment Component Views	Entertainment Connector End Views
Remote Compact Disc Player	In the left rear cargo compartment	Entertainment Component Views	Entertainment Connector End Views
Speaker Assembly, Front (with UZ7)	Inside the lower front of the left and right door panel	—	Entertainment Connector End Views
Speaker Assembly, Front (with U59)	Inside the lower front of the left and right door panel	—	Entertainment Connector End Views
Speaker, Front (with W53, UQ0)	Inside the lower front of the left and right door panel	Entertainment Component Views	Entertainment Connector End Views
Speaker, Front Midrange (with W54, W55)	Inside the lower front of the left and right door panel	Entertainment Component Views	Entertainment Connector End Views
Speaker, Front Tweeter (with W54, W55)	Inside the lower front of the left and right door panel	Entertainment Component Views	Entertainment Connector End Views
Speaker, Rear (with W53, UQ0)	In the left and right sail panels	—	Entertainment Connector End Views
Speaker, Rear Extended Range (with UZ7)	Behind the rear seat in the rear hatch area	—	Entertainment Connector End Views
Speaker, Rear Midrange (with W54, W55)	Mounted to the rear hatch	Entertainment Component Views	Entertainment Connector End Views
Speaker, Rear Quarter (with U59)	In the right and left rear quarter panels	Entertainment Component Views	Entertainment Connector End Views
Speaker, Rear Subwoofer (with UZ7)	In the right and left sail panels	—	Entertainment Connector End Views
Speaker, Rear Subwoofer (with W54, W55)	In the right and left sail panels	Entertainment Component Views	Entertainment Connector End Views
Speaker, Rear Tweeter (with W54, W55)	In the right and left rear quarter panels	Entertainment Component Views	Entertainment Connector End Views
Steering Wheel Controls	Mounted on left side and the right side of the steering wheel	Entertainment Component Views	SIR Connector End Views in SIR
C217 (4 cavities)	IP harness to the inflatable restraint steering wheel module coil harness, near the base of the steering column	Harness Routing Views in Wiring Systems	—
C240 (8 cavities)	Cross car harness to the IP harness, under the right side of the IP, behind the knee bolster	—	Inline Harness Connector End Views in Wiring Systems
G200	Near the left A-pillar, bolted to the IP mounting stud behind the kick panel	Harness Routing Views in Wiring Systems	—

Entertainment Components (cont'd)

Name	Location	Locator View	Connector End View
P500	Between the driver door and the A-pillar	<i>Harness Routing Views in Wiring Systems</i>	—
P600	Between the passenger door and the A-pillar	<i>Harness Routing Views in Wiring Systems</i>	—
S211	In the IP harness, main branch, approximately 7 cm (2.8 in) from the rear compartment lid release relay breakout	—	—
S216	In the IP harness, main branch, approximately 10 cm (4 in) from the instrument cluster breakout	—	—
S217	In the IP harness, main branch, approximately 18 cm (6.8 in) from the body control module (BCM) breakout	—	—
S218	In the IP harness, approximately 4 cm (1.6 in) from the instrument cluster breakout	—	—
S224	In the IP harness, main branch, approximately 17 cm (6.7 in) from the instrument cluster breakout	—	—
S300 (Pontiac Coupe)	In the IP harness, main branch, approximately 13 cm (5.1 in) from the right rear speaker breakout	—	—
S301 (Pontiac Coupe)	In the IP harness, main branch, approximately 7 cm (2.8 in) from the right rear speaker breakout	—	—
S302 (Pontiac Coupe)	In the IP harness, main branch, approximately 13 cm (5.1 in) from the remote compact disc player/left rear speaker breakout	—	—
S303 (Pontiac Coupe)	In the IP harness, main branch, approximately 18 cm (7.1 in) from C220 breakout	—	—
S304 (Pontiac)	In the IP harness, main branch, approximately 18 cm (7.1 in) from the body control module (BCM) breakout	—	—
S305 (Pontiac Coupe)	In the IP harness, main branch, approximately 7 cm (2.8 in) from the remote compact disc player/left rear speaker breakout	—	—
S306 (Pontiac Coupe)	In the IP harness, main branch, approximately 25 cm (10 in) from C220 breakout	—	—
S307 (Pontiac Coupe)	In the IP harness, main branch, approximately 7 cm (2.8 in) from G201 breakout	—	—
S317 (Convertible)	In the IP harness, main branch, approximately 40 cm (15.8 in) from the left rear courtesy lamp breakout	—	—
S333 (Convertible)	In the IP harness, approximately 11 cm (4.3 in) from the body control module (BCM) breakout	—	—
S333 (Coupe)	In the IP harness, main branch, approximately 23 cm (9.1 in) from the remote compact disc player/left rear speaker breakout	—	—

Entertainment Component Views

Right Side of Rear Compartment, Rear of Wheelhouse



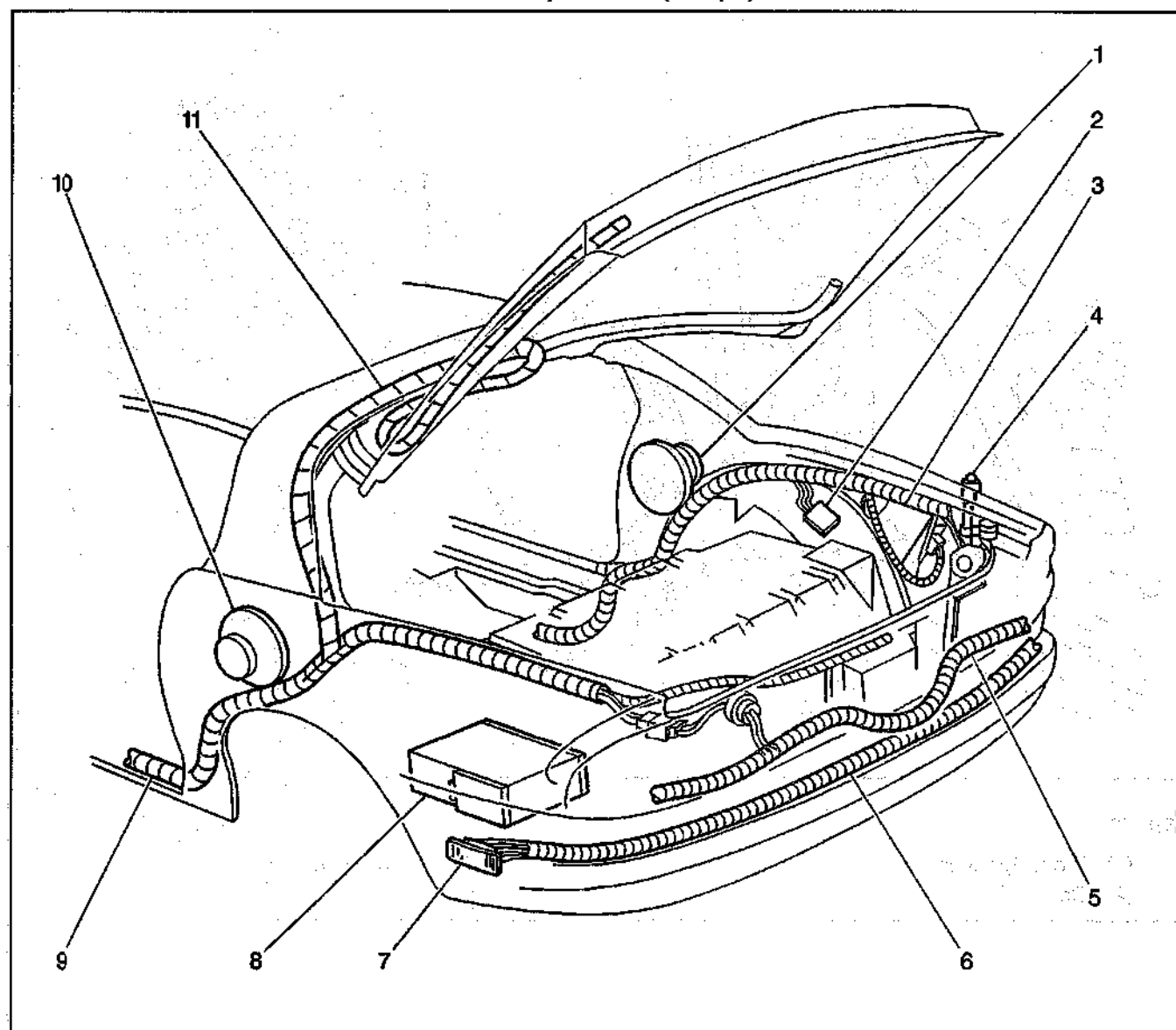
306133

Legend

- (1) Power Antenna
- (2) Amplifier

- (3) Rear Wheelhouse

Rear Compartment (Coupe)

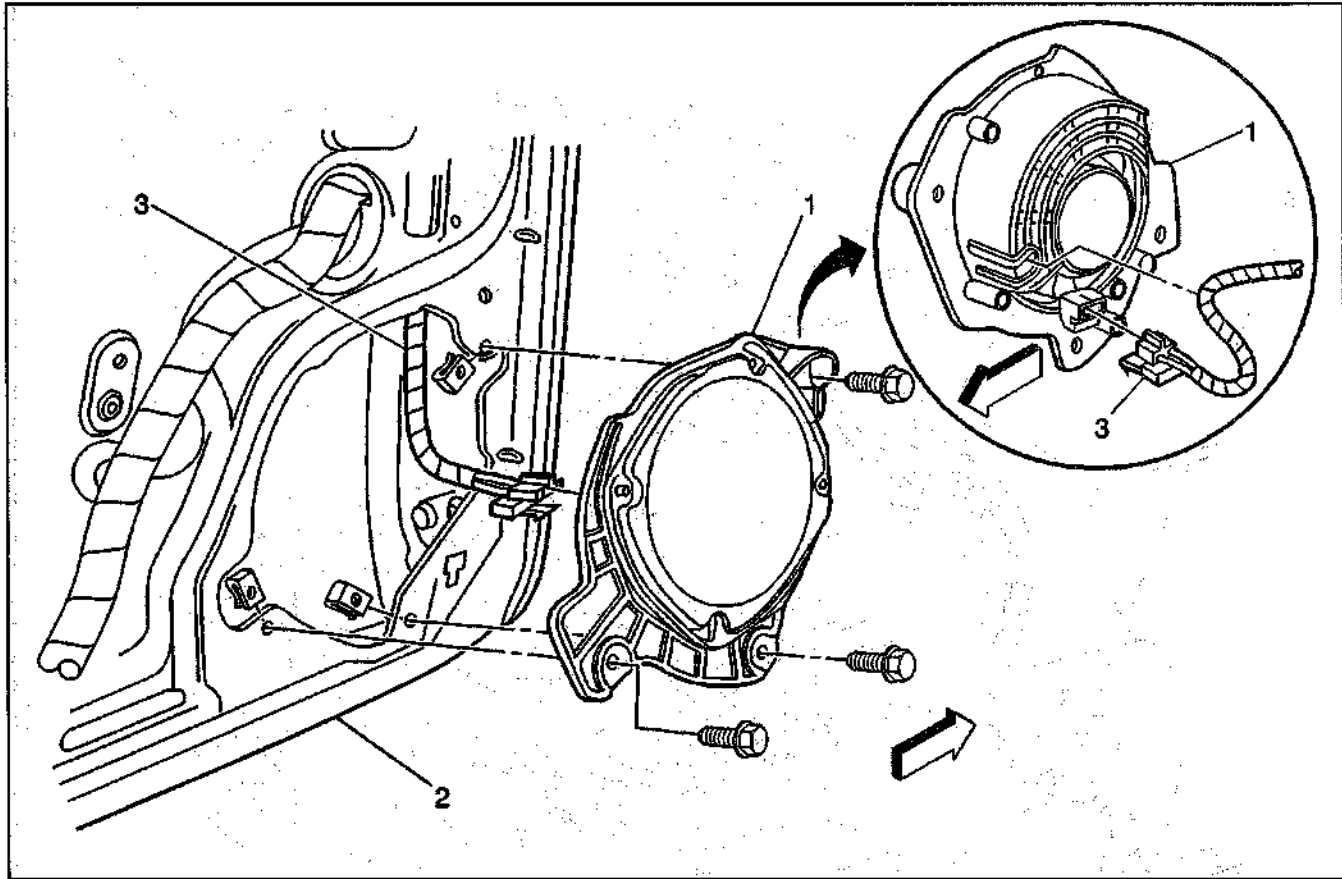


301016

Legend

- | | |
|----------------------------------|--------------------------------|
| (1) Rear Speaker | (7) Side Marker Lamp |
| (2) Theft Deterrent Shock Sensor | (8) Remote Compact Disc Player |
| (3) Amplifier | (9) IP Wiring Harness |
| (4) Antenna | (10) Rear Speaker |
| (5) Rear Body Harness | (11) Hatch Harness |
| (6) Rear Fascia Harness | |

Door Panel (UZ7,W53,W54,W55)



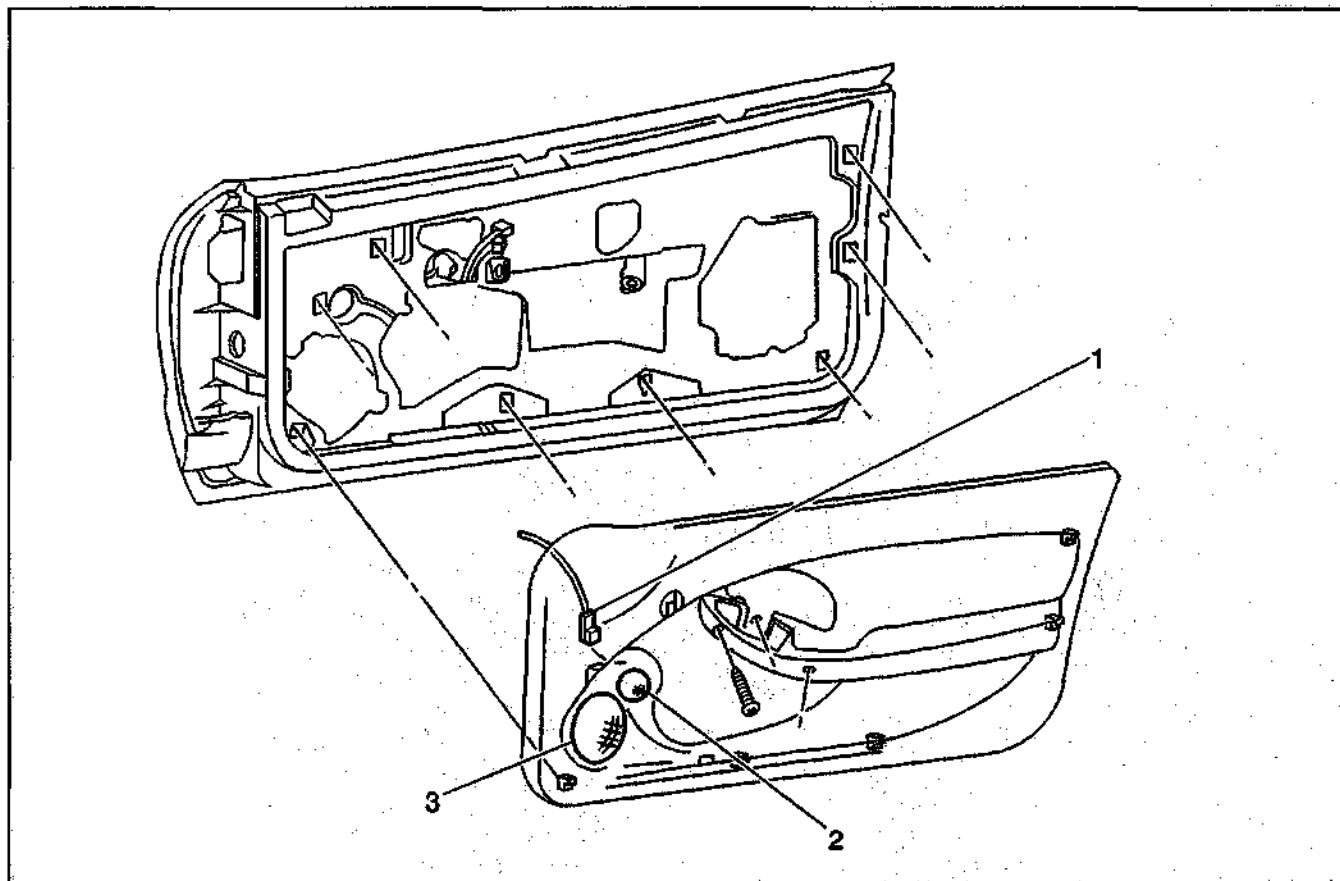
569381

Legend

- (1) Front Speaker
- (2) Door

- (3) Cross Car Harness

Door Panel (W54, W55)



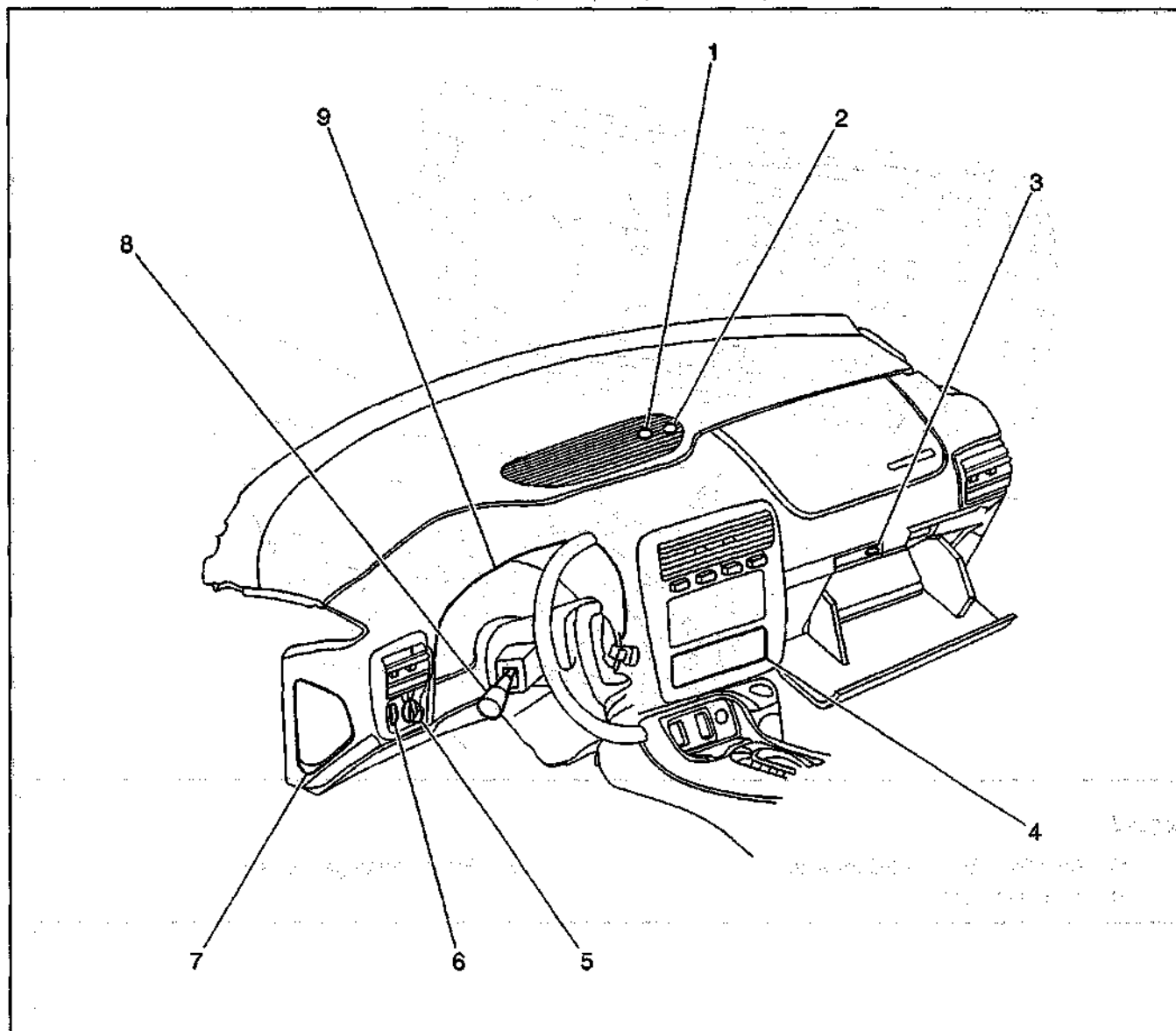
568569

Legend

- (1) Speaker Wire Lead Connector
- (2) Front Tweeter

- (3) Front Midrange Speaker

Instrument Panel (Chevrolet)

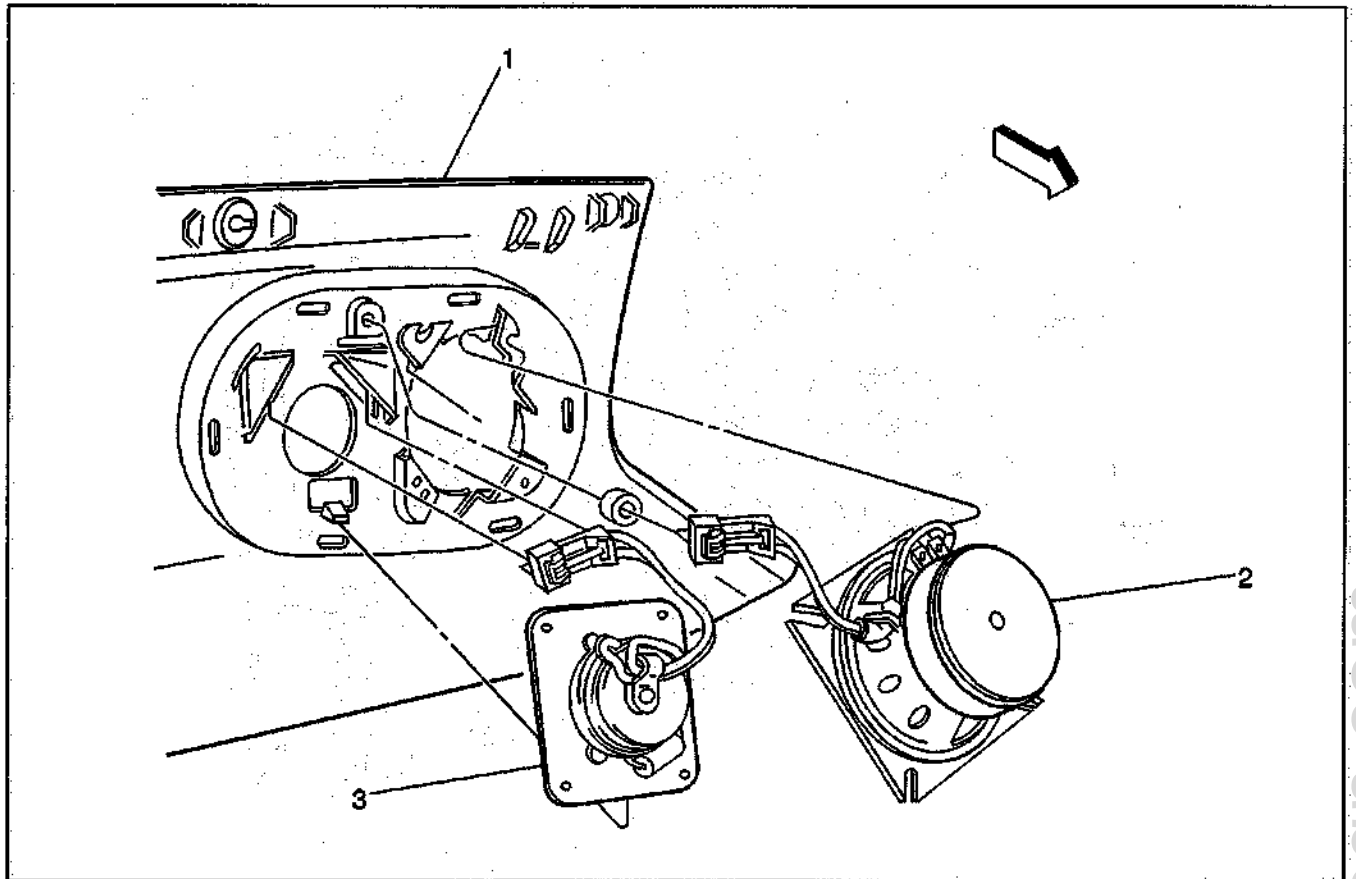


374345

Legend

- | | |
|------------------------------|--------------------------|
| (1) Security LED | (6) IP Dimmer Switch |
| (2) DRL Ambient Light Sensor | (7) IP Fuse Block |
| (3) IP Compartment Lamp | (8) Multi-Function Lever |
| (4) Radio | (9) Instrument Cluster |
| (5) Headlamp Switch | |

Rear Quarter Panel (UZ7, W54, W55)



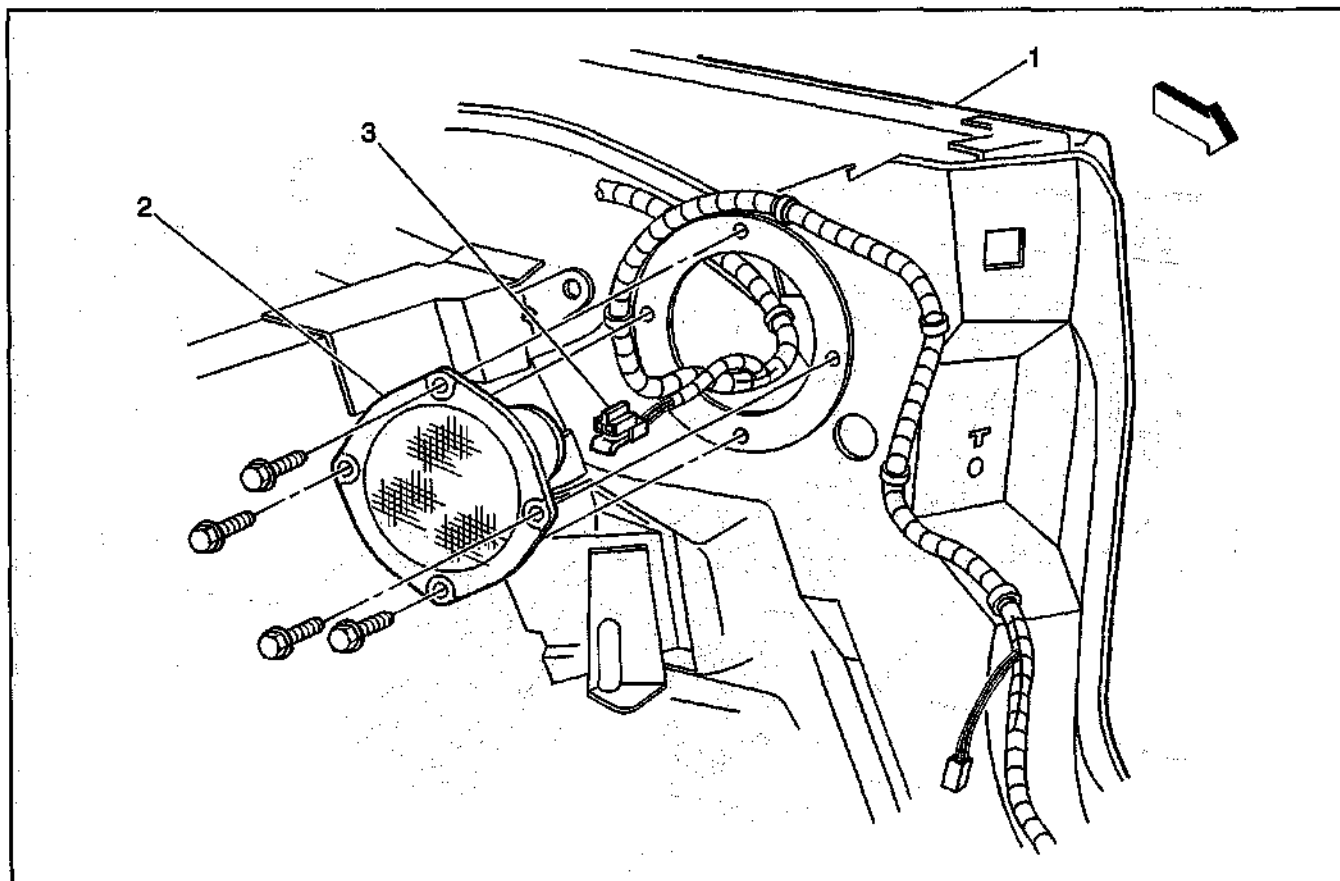
Legend

- (1) Rear Quarter Trim Panel
- (2) Rear Midrange Speaker

- (3) Rear Tweeter

568570

Rear Quarter Panel (U59)



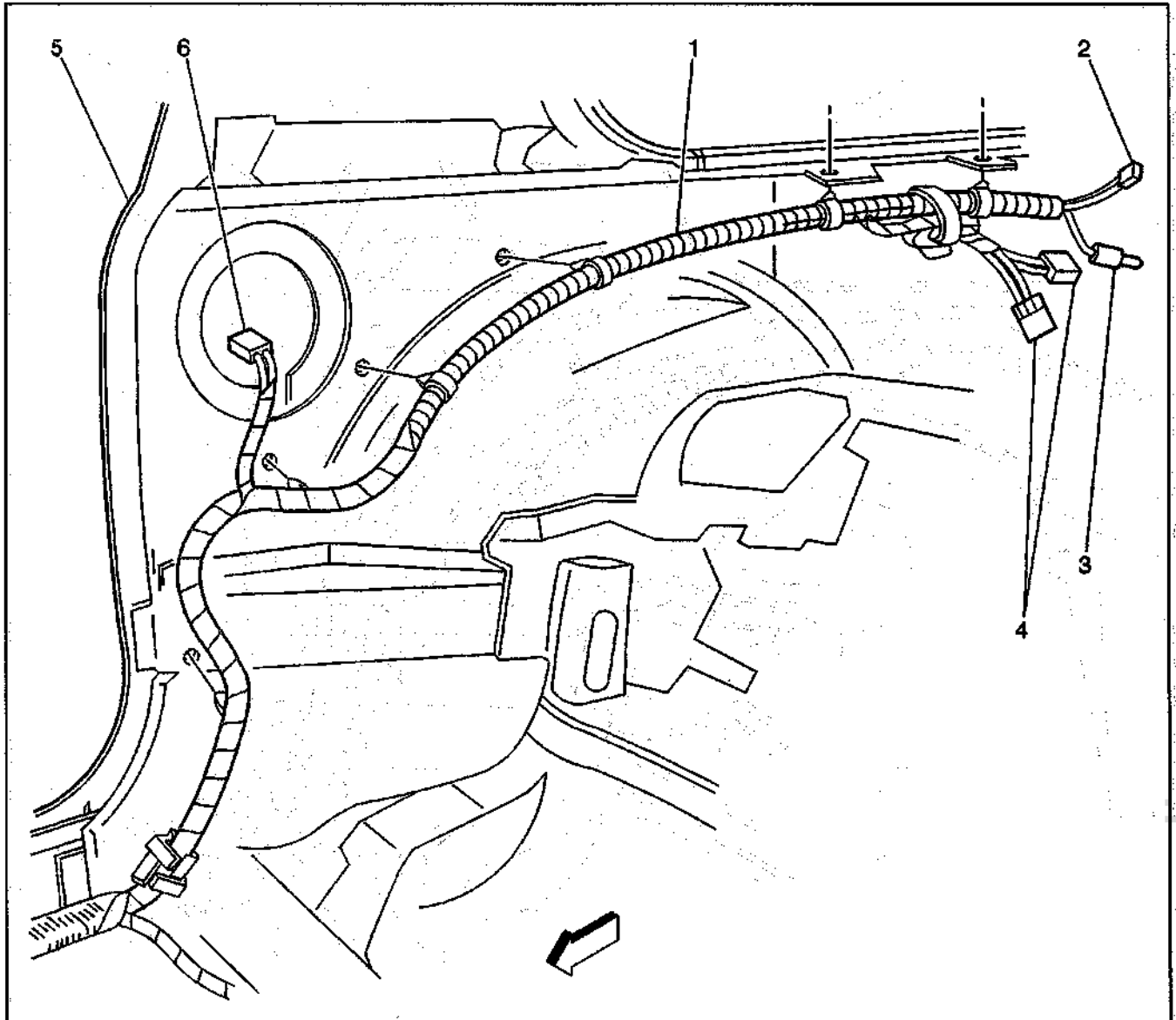
576316

Legend

- (1) Rear Quarter Panel
- (2) Speaker

- (3) I/P Wiring Harness

Right Rear Quarter Panel



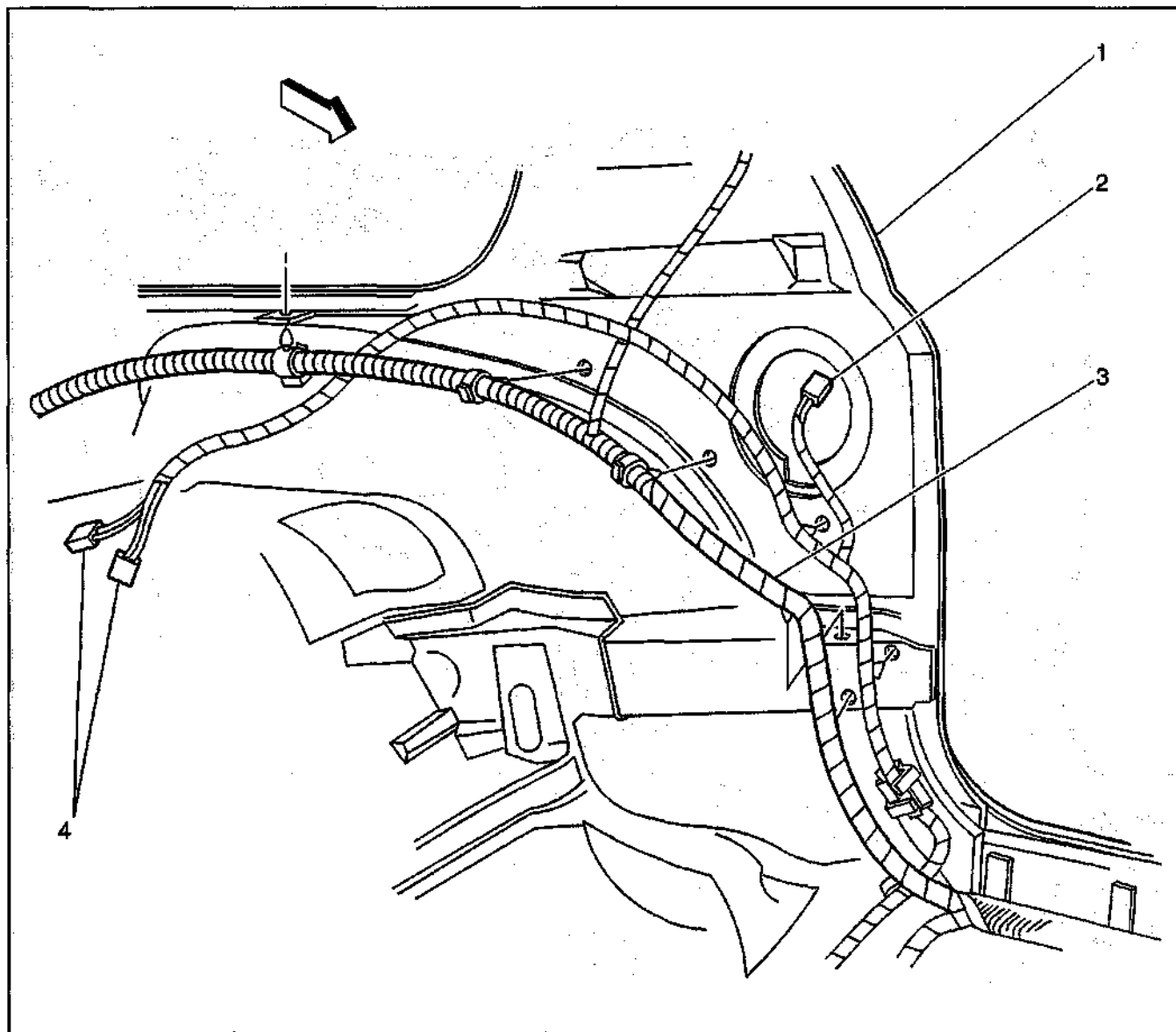
301012

Legend

- (1) IP Wiring Harness
- (2) Power Antenna Connector
- (3) Antenna Coaxial Cable

- (4) Speaker Connectors
- (5) Rear Quarter Panel
- (6) Speaker Connector

Left Rear Quarter Panel



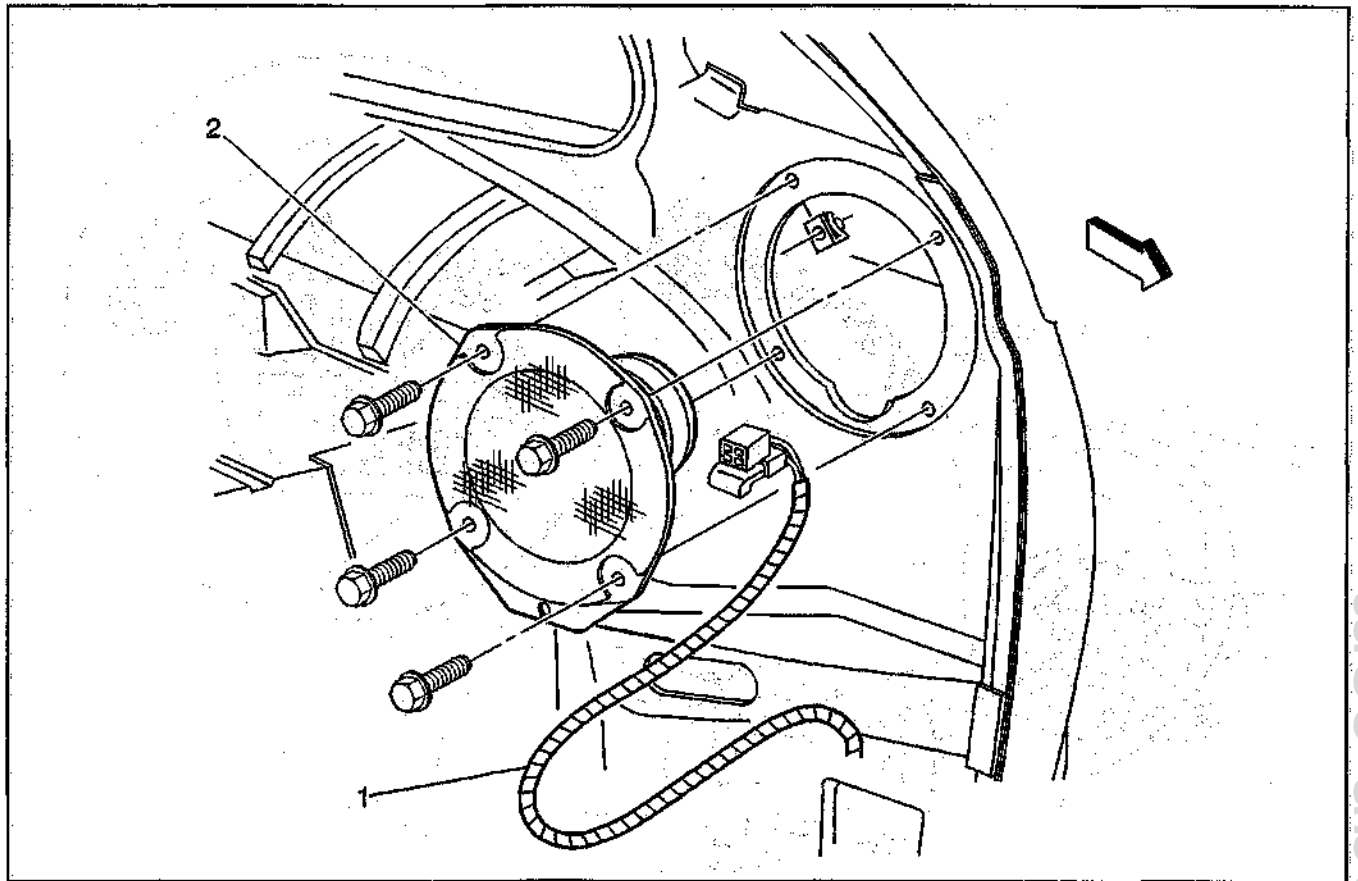
301015

Legend

- (1) Rear Quarter Panel
- (2) Speaker Connector

- (3) IP Wiring Harness
- (4) Speaker Connectors

Rear Subwoofer (W54, W55)



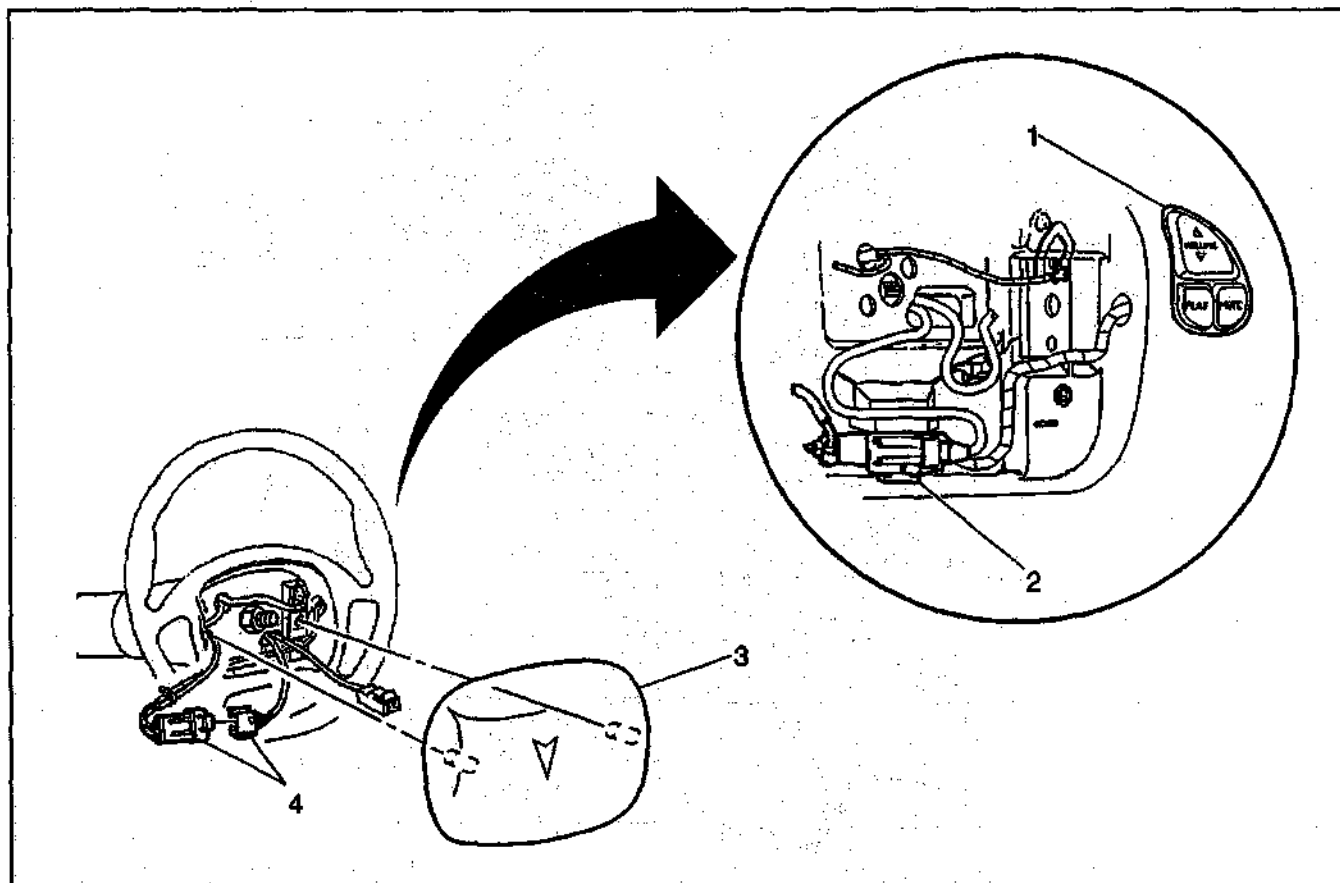
578325

Legend

(1) I/P Wiring Harness

(2) Subwoofer

Steering Wheel (Pontiac)



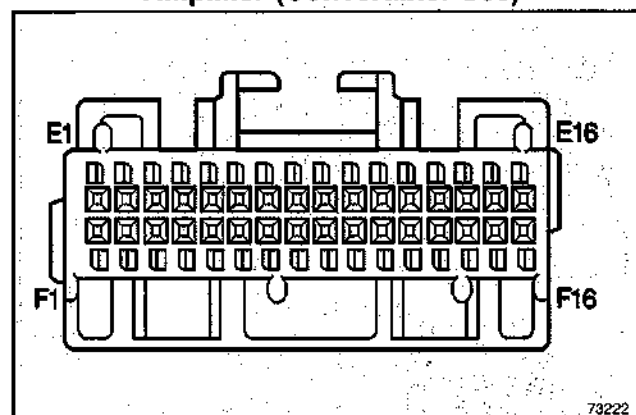
581408

Legend

- | | |
|---------------------------------------|--|
| (1) Steering Wheel Controls | (3) Inflatable Restraint Steering Wheel Module |
| (2) Steering Wheel Controls Connector | (4) Steering Wheel Controls Connector |

Entertainment Connector End Views

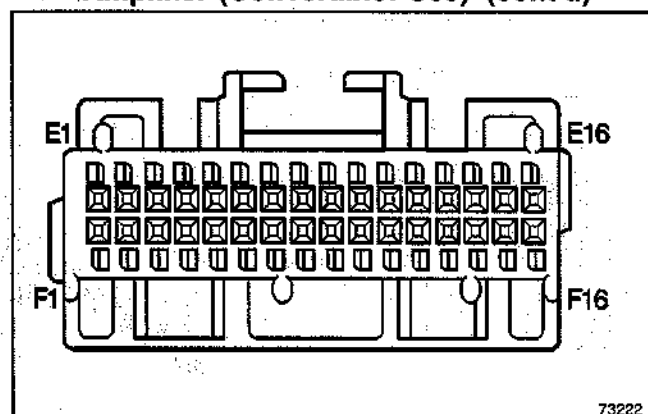
Amplifier (Convertible: U59)



73222

Connector Part Information		• 1211-0115 • 32-Way F Micro-pack 100 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
E1	LT GRN	200	Right Front Speaker Positive Input
E2	TAN	201	Left Front Speaker Positive Input
E3	GRY	118	Left Front Speaker Negative Input
E4	LT BLU	115	Right Rear Speaker Negative Input
E5	DK BLU	46	Right Rear Speaker Positive Input
E6	BRN	199	Left Rear Speaker Positive Input
E7	YEL	116	Left Rear Speaker Negative Input
E8	BLK	650	Ground
E9	BLK	650	Ground
E10	—	—	Not Used
E11	ORN	1040	Fused Input Feed
E12	ORN	1040	Fused Input Feed
E13	BLK	1856	Left Front Tweeter Positive Output
E14	YEL	1956	Left Front Tweeter Negative Output
E15	DK BLU	1857	Left Front Midrange Positive Output
E16	LT BLU	1957	Left Front Midrange Negative Output
F1	DK GRN	117	Right Front Speaker Negative Input
F2	LT GRN	1852	Right Front Tweeter Positive Output

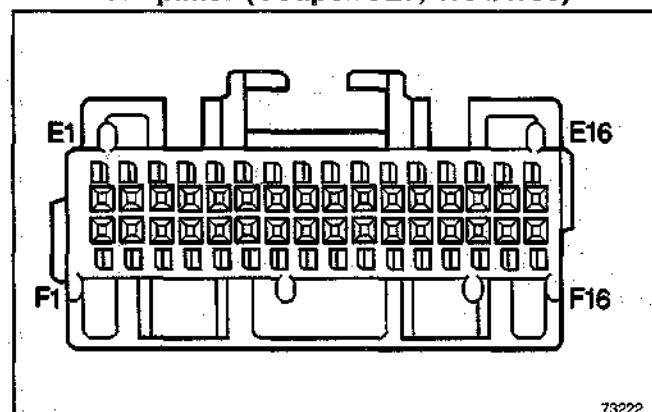
Amplifier (Convertible: U59) (cont'd)



73222

Connector Part Information		• 1211-0115 • 32-Way F Micro-pack 100 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
F3	PPL	1952	Right Front Tweeter Negative Output
F4	WHT	1959	Left Rear Tweeter Negative Output
F5	TAN	1859	Left Rear Tweeter Positive Output
F6	DK GRN	1953	Right Front Midrange Negative Output
F7	ORN	1853	Right Front Midrange Positive Output
F8	GRY	605	Amp Sensor Input
F9	—	—	Not Used
F10	RED	1955	Right Rear Quarter Speaker Tweeter Negative Output
F11	TAN	1855	Right Rear Quarter Speaker Tweeter Positive Output
F12	—	—	Not Used
F13	LT BLU/BLK	315	Right Rear Quarter Speaker Woofer Negative Output
F14	DK GRN	1795	Right Rear Quarter Speaker Woofer Positive Output
F15	DK BLU/WHT	346	Left Rear Quarter Speaker Woofer Positive Output
F16	LT GRN/BLK	1794	Left Rear Quarter Speaker Woofer Negative Output

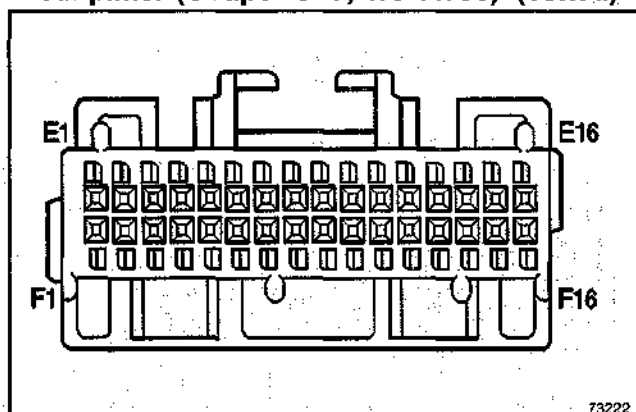
Amplifier (Coupe: UZ7, W54/W55)



73222

Connector Part Information		• 1211-0115 • 32-Way F Micro-pack 100 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
E1	DK GRN	117	Right Front Speaker Negative Input
E2	GRY	118	Left Front Speaker Negative Input
E3	TAN	201	Left Front Speaker Positive Input
E4	DK BLK	46	Right Rear Speaker Positive Input
E5	LT BLU	115	Right Rear Speaker Negative Input
E6	YEL	116	Left Rear Speaker Negative Input
E7	BRN	199	Left Rear Speaker Positive Input
E8	BLK	650	Ground
E9	BLK	650	Ground
E10	—	—	Not Used
E11	ORN	1040	Fused Input Feed
E12	ORN	1040	Fused Input Feed
E13	BLK	1856	Left Front Speaker Tweeter Positive Output
E13	WHT	1959	(With W54/W55) Left Rear Subwoofer Negative Output
E14	YEL	1956	Left Front Speaker Tweeter Negative Output
E14	TAN	1859	(With W54/W55) Left Rear Subwoofer Positive Output
E15	DK BLU	1857	Left Front Speaker Midrange Positive Output

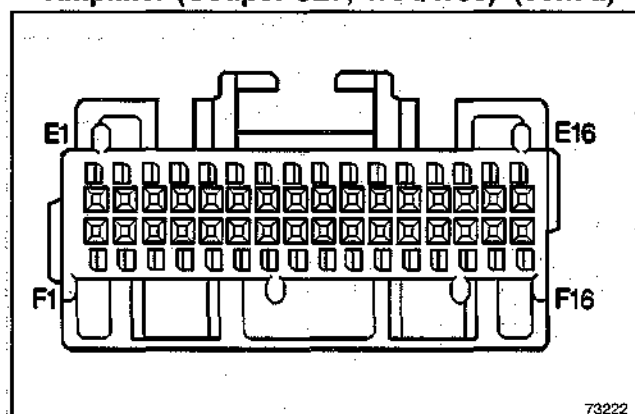
Amplifier (Coupe: UZ7, W54/W55) (cont'd)



73222

Connector Part Information		• 1211-0115 • 32-Way F Micro-pack 100 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
E16	LT BLU	1957	Left Front Speaker Midrange Negative Output
F1	LT GRN	200	Right Front Speaker Positive Input
F2	LT GRN	1852	Right Front Speaker Tweeter Positive Output
F2	TAN	1855	(With W54/W55) Right Rear Subwoofer Negative Output
F3	PPL	1952	Right Front Speaker Tweeter Negative Output
F3	RED	1955	(With W54/W55) Right Rear Subwoofer Positive Output
F4	LT BLU/BLK	315	Right Rear Subwoofer Speaker Negative Output
F5	DK GRN	1795	Right Rear Subwoofer Speaker Positive Output
F6	DK GRN	1953	Right Front Speaker Midrange Negative Output
F7	ORN	1853	Right Front Speaker Midrange Positive Output
F8-F9	—	—	Not Used
F10	LT GRN/BLK	1794	Left Rear Subwoofer Speaker Negative Output
F11	DK BLU/WHT	346	Left Rear Subwoofer Speaker Positive Output
F12	—	—	Not Used

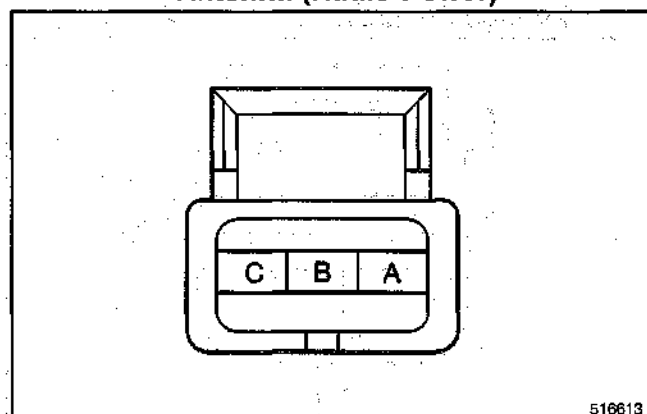
Amplifier (Coupe: UZ7, W54/W55) (cont'd)



73222

Connector Part Information		• 1211-0115 • 32-Way F Micro-pack 100 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
F13	RED	1955	Right Rear Extended Range Speaker Negative Output
F13	GRY	1954	(With W54/W55) Right Rear Midrange Speaker Negative Output
F14	TAN	1855	Right Rear Extended Range Speaker Positive Output
F14	WHT	1854	(With W54/W55) Right Rear Midrange Speaker Positive Output
F15	TAN	1859	Left Rear Extended Range Speaker Positive Output
F15	RED	1858	(With W54/W55) Left Rear Midrange Speaker Positive Output
F16	WHT	1959	Left Rear Extended Range Speaker Negative Output
F16	PPL	1958	(With W54/W55) Left Rear Midrange Speaker Negative Output

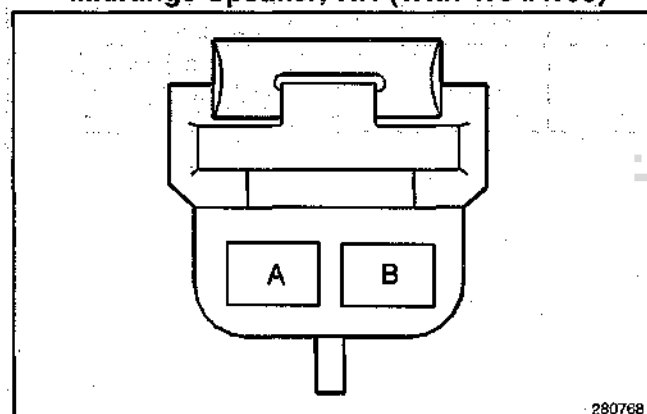
Antenna (Radio Power)



516613

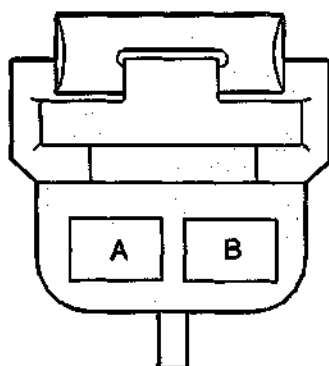
Connector Part Information		• 1206-4759 • 3-Way M Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	ORN	1040	Fused Input Feed
B	PNK	314	Radio Power Input
C	BLK	650	Ground

Front Speaker, LH (With UQ0, W53) or Front Midrange Speaker, RH (With W54/W55)



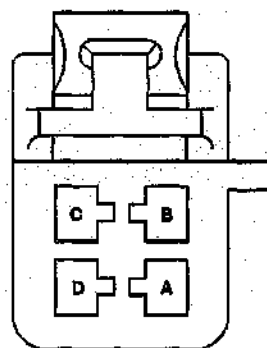
280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	GRY	118	Left Front Speaker Negative Input
A	LT BLU	1957	(Midrange) Left Front Midrange Speaker Negative Input
B	TAN	201	Left Front Speaker Positive Input
B	DK BLU	1857	(Midrange) Left Front Midrange Speaker Positive Input

**Front Speaker, RH (With UQ0, W53) or Front
Midrange Speaker, RH (With W54/W55)**


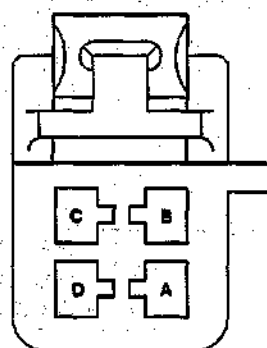
280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	DK GRN	117	Right Front Speaker Negative Input
A	DK GRN	1953	(Midrange) Right Front Midrange Speaker Negative Input
B	LT GRN	200	Right Front Speaker Positive Input
B	ORN	1853	(Midrange) Right Front Midrange Speaker Positive Input

**Front Speaker Assembly,
LH (With U59, UZ7)**


130637

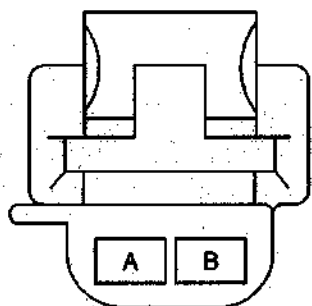
Connector Part Information		• 1206-4760 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	YEL	1956	Left Front Tweeter Speaker Negative Input
B	BLK	1856	Left Front Tweeter Speaker Positive Input
C	DK BLU	1857	Right Front Midrange Speaker Positive Input
D	LT BLU	1957	Right Front Midrange Speaker Negative Input

**Front Speaker Assembly,
RH (With U59, UZ7)**


130637

Connector Part Information		• 1206-4760 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	PPL	1952	Right Front Tweeter Speaker Negative Input
B	LT GRN	1852	Right Front Tweeter Speaker Positive Input
C	ORN	1853	Right Front Midrange Speaker Positive Input
D	DK GRN	1953	Right Front Midrange Speaker Negative Input

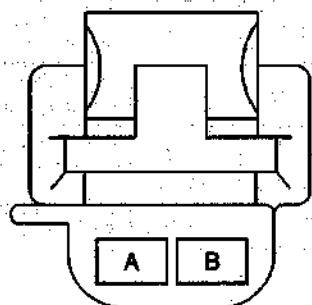
Front Tweeter Speaker, LH (With W54/W55)



130724

Connector Part Information		• 1206-4869 • 2-Way F Metri-pack 150 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
A	GRY	118	Left Front Tweeter Speaker Negative Input
B	TAN	201	Left Front Tweeter Speaker Positive Input

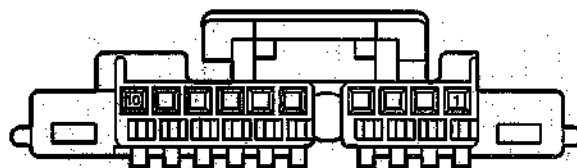
Front Tweeter Speaker, RH (With W54/W55)



130724

Connector Part Information		• 1206-4869 • 2-Way F Metri-pack 150 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
A	DK GRN	117	Right Front Tweeter Speaker Negative Input
B	LT GRN	200	Right Front Tweeter Speaker Positive Input

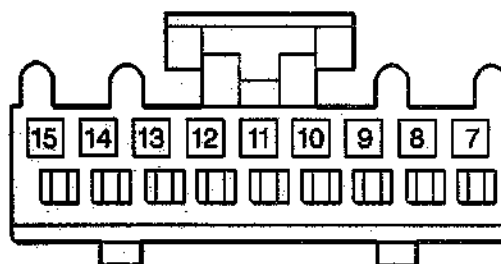
Radio Connector C1



62435

Connector Part Information		• 1204-7531 • 10-Way F Micro-pack 100 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
1	GRY	118	Left Front Speaker Negative Output
2	TAN	201	Left Front Speaker Positive Output
3	DK GRN	117	Right Front Speaker Negative Output
4	LT GRN	200	Right Front Speaker Positive Output
5	BLK	650	Ground
6	BRN	9	Exterior Lights Feed Output
7	GRY	8	Fused Input Feed
8	PNK	314	(Pontiac, Chevrolet: Europe, Japan) Power Antenna Output
9	YEL	43	Fused Input Feed
10	ORN	640	Fused Input Feed

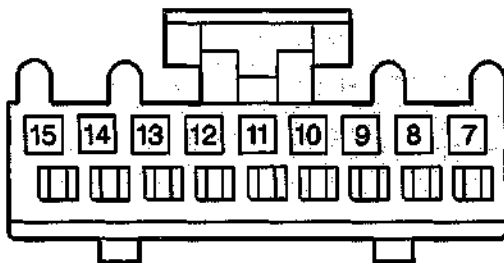
Radio Connector C2



62467

Connector Part Information		• 1206-4980 • 9-Way F Micro-pack 100 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
7-8	—	—	Not Used

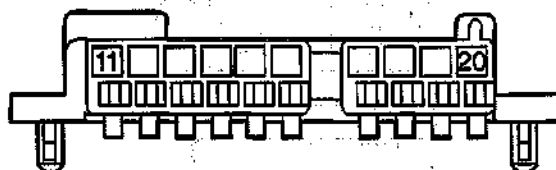
Radio Connector C2 (cont'd)



62467

Connector Part Information		• 1206-4980 • 9-Way F Micro-pack 100 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
9	Bare	514	Drain Wire
10	DK GRN/ WHT	368	Right Audio Signal
11	BRN/ WHT	367	Left Audio Signal
12	BLK/ WHT	372	Audio Return
13	BLK	1051	Ground
14	DK GRN	835	System Power Control
15	—	—	Not Used

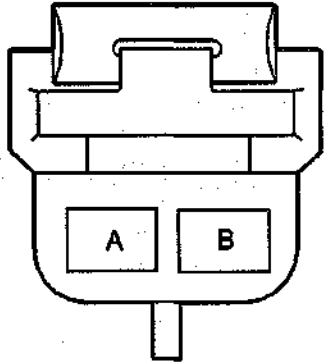
Radio Connector C3



62477

Connector Part Information		• 1206-5785 • 10-Way F Micro-pack 100 Series (GRY)	
Pin	Wire Color	Circuit No.	Function
11	GRY	605	(Convertible, With U59) Amplifier Sensor
12-13	—	—	Not Used
14	DK BLU	1796	Steering Wheel Controls Input
15	—	—	Not Used
16	DK GRN/ WHT	817	(Chevrolet) VSS Signal Output
17	LT BLU	115	Right Rear Speaker Negative Output
18	DK BLU	46	Right Rear Speaker Positive Output
19	YEL	116	Left Rear Speaker Negative Output
20	BRN	199	Left Rear Speaker Positive Output

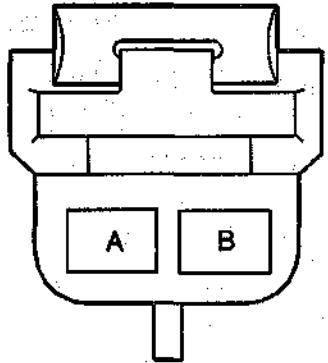
Rear Extended Range Speaker, LH (With UZ7)



280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	WHT	1959	Left Rear Extended Range Speaker Negative Input
B	TAN	1859	Left Rear Extended Range Speaker Positive Input

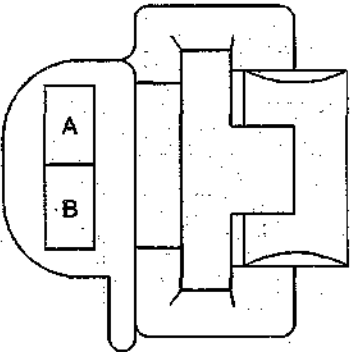
Rear Extended Range Speaker, RH (With UZ7)



280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	RED	1955	Right Rear Extended Range Speaker Negative Input
B	TAN	1855	Right Rear Extended Range Speaker Positive Input

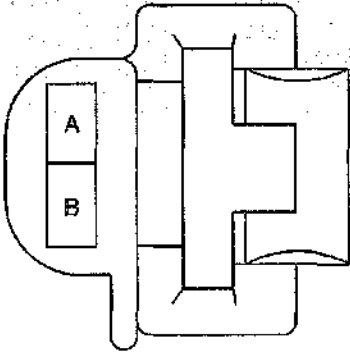
Rear Midrange Speaker, LH (With W54/W55)



130867

Connector Part Information		• 1206-4867 • 2-Way F Metri-pack 150 Series (NAT)	
Pin	Wire Color	Circuit No.	Function
A	PPL	1958	Left Rear Midrange Speaker Negative Input
B	RED	1858	Left Rear Midrange Speaker Positive Input

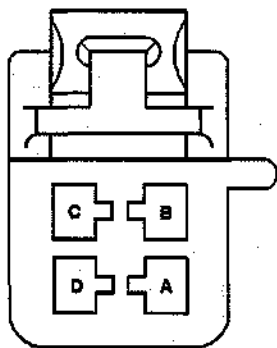
Rear Midrange Speaker, RH (With W54/W55)



130867

Connector Part Information		• 1206-4867 • 2-Way F Metri-pack 150 Series (NAT)	
Pin	Wire Color	Circuit No.	Function
A	GRY	1954	Right Rear Midrange Speaker Negative Input
B	WHT	1854	Right Rear Midrange Speaker Positive Input

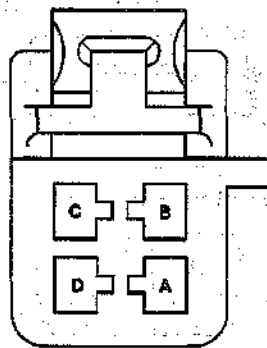
Rear Quarter Speaker, LH (With U59)



130637

Connector Part Information		• 1206-4760 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	WHT	1959	Left Rear Quarter Tweeter Speaker Negative Input
B	TAN	1859	Left Rear Quarter Tweeter Speaker Positive Input
C	DK BLU/ WHT	346	Left Rear Quarter Woofer Speaker Positive Input
D	LT GRN/ BLK	1794	Left Rear Quarter Woofer Speaker Negative Input

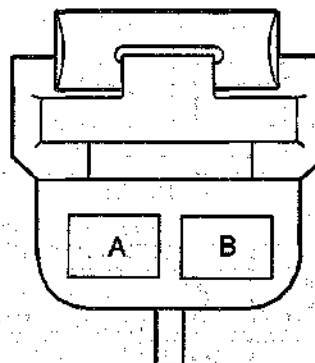
Rear Quarter Speaker, RH (With U59)



130637

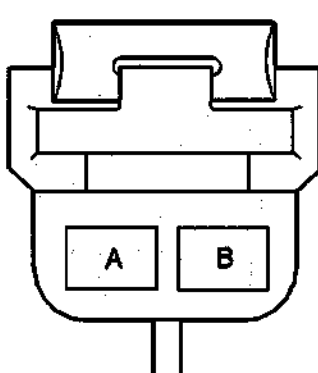
Connector Part Information		• 1206-4760 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	RED	1955	Right Rear Quarter Tweeter Speaker Negative Input
B	TAN	1855	Right Rear Quarter Tweeter Speaker Positive Input
C	DK GRN	1795	Right Rear Quarter Woofer Speaker Positive Input
D	LT BLU/ BLK	315	Right Rear Quarter Woofer Speaker Negative Input

Rear Speaker, LH (Chevrolet and Pontiac Domestic, With UQ0, W53)



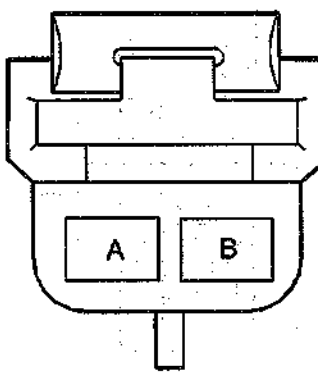
280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	YEL	116	Left Rear Speaker Negative Input
B	BRN	199	Left Rear Speaker Positive Input

Rear Speaker, RH (Chevrolet and Pontiac Domestic, With UQ0, W53)


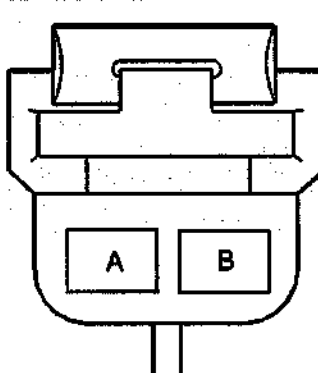
280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	LT BLU	115	Right Rear Speaker Negative Input
B	DK BLU	46	Right Rear Speaker Positive Input

Rear Subwoofer Speaker, RH (With UZ7)


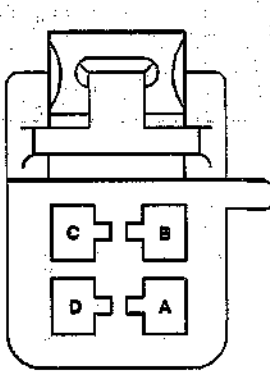
280768

Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	LT BLU/BLK	315	Right Rear Subwoofer Speaker Negative Input
B	DK GRN	1795	Right Rear Subwoofer Speaker Positive Input

Rear Subwoofer Speaker, LH (With UZ7)


280768

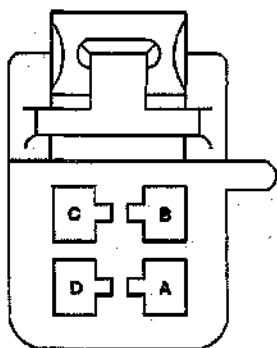
Connector Part Information		• 1205-2832 • 2-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	LT GRN/BLK	1794	Left Rear Subwoofer Speaker Negative Input
B	DK BLU/WHT	346	Left Rear Subwoofer Speaker Positive Input

Rear Subwoofer Speaker, LH (With W54/W55)


130637

Connector Part Information		• 1206-4760 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	LT GRN/BLK	1794	Left Rear Subwoofer Speaker Negative Input
B	DK BLU/WHT	346	Left Rear Subwoofer Speaker Positive Input
C	TAN	1859	Left Rear Subwoofer Speaker Positive Input
D	WHT	1959	Left Rear Subwoofer Speaker Negative Input

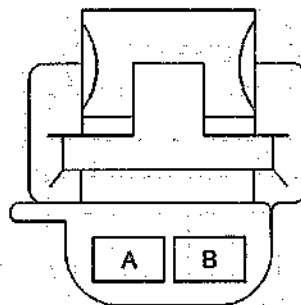
Rear Subwoofer Speaker, RH (With W54/W55)



130637

Connector Part Information		• 1206-4760 • 4-Way F Metri-pack 150 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
A	LT BLU/BLK	315	Right Rear Subwoofer Speaker Negative Input
B	DK GRN	1795	Right Rear Subwoofer Speaker Positive Input
C	RED	1955	Right Rear Subwoofer Speaker Positive Input
D	TAN	1855	Right Rear Subwoofer Speaker Negative Input

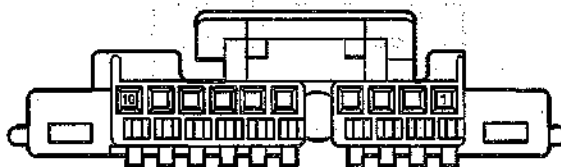
Rear Tweeter Speaker, RH (With W54/W55)



130724

Connector Part Information		• 1206-4869 • 2-Way F Metri-pack 150 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
A	LT BLU	115	Right Rear Tweeter Speaker Negative Input
B	DK BLU	46	Right Rear Tweeter Speaker Positive Input

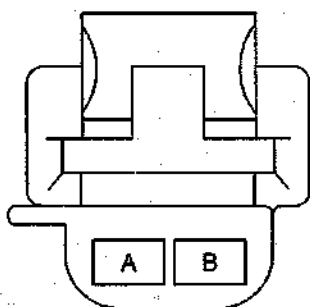
Remote Compact Disc Player



62435

Connector Part Information		• 1204-7531 • 10-Way F Micro-pack 100 Series (BLK)	
Pin	Wire Color	Circuit No.	Function
1	BRN/WHT	367	Left Audio Signal
2	DK GRN/WHT	368	Right Audio Signal
3	BLK/WHT	372	Audio Return
4	—	—	Not Used
5	ORN	1040	Fused Input Feed
6	—	—	Not Used
7	BLK	1051	Ground
8-9	—	—	Not used
10	DK GRN	835	System On (Signal from Radio)

Rear Tweeter Speaker, LH (With W54/W55)



130724

Connector Part Information		• 1206-4869 • 2-Way F Metri-pack 150 Series (BLU)	
Pin	Wire Color	Circuit No.	Function
A	YEL	116	Left Rear Tweeter Speaker Negative Input
B	BRN	199	Left Rear Tweeter Speaker Positive Input

Diagnostic Information and Procedures

A Diagnostic Starting Point - Entertainment

Begin the system diagnosis by reviewing the system Description and Operation. Reviewing the Description and Operation information will help you determine the correct symptom diagnostic procedure when a malfunction exists. Reviewing the Description and Operation information will also help you determine if the condition described by the customer is normal operation. Refer to *Symptoms - Entertainment* in order to identify the correct procedure for diagnosing the system and where the procedure is located.

Symptoms - Entertainment

Important: Review the system operation in order to familiarize yourself with the system functions. Refer to one of the following:

- Radio/Audio System Operation-Radio Controls (RPO UM6 (Chevrolet))
- Radio/Audio System Operation-Radio Controls (RPO ULO (Chevrolet))
- Radio/Audio System Operation-Radio Controls (RPO UNO (Chevrolet))
- Radio/Audio System Operation-Radio Controls (RPO W54/X10 (Pontiac))
- Radio/Audio System Operation-Radio Controls (RPO W53/W55/X20 (Pontiac))
- Radio/Audio System Operation-Cassette Tape Player (RPO UM6 (Chevrolet))
- Radio/Audio System Operation-Cassette Tape Player (RPO ULO (Chevrolet))
- Radio/Audio System Operation-Cassette Tape Player (RPO W54/X10 (Pontiac))
- Radio/Audio System Operation-Compact Disc Player (RPO UNO (Chevrolet))
- Radio/Audio System Operation-Compact Disc Player (PRO W53/W54/W55/X10/X20 (Pontiac))
- Radio/Audio System Operation-Theftlock
- Steering Wheel Controls System Operation
- Power Antenna System Description

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the Entertainment System. Refer to *Checking Aftermarket Accessories* in Wiring Systems.
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.

Intermittent

Faulty electrical connections or wiring may be the cause of intermittent conditions. Refer to *Testing for Intermittent and Poor Connections* in Wiring Systems.

Symptom List

Refer to a symptom diagnostic procedure from the following list in order to diagnose the symptom:

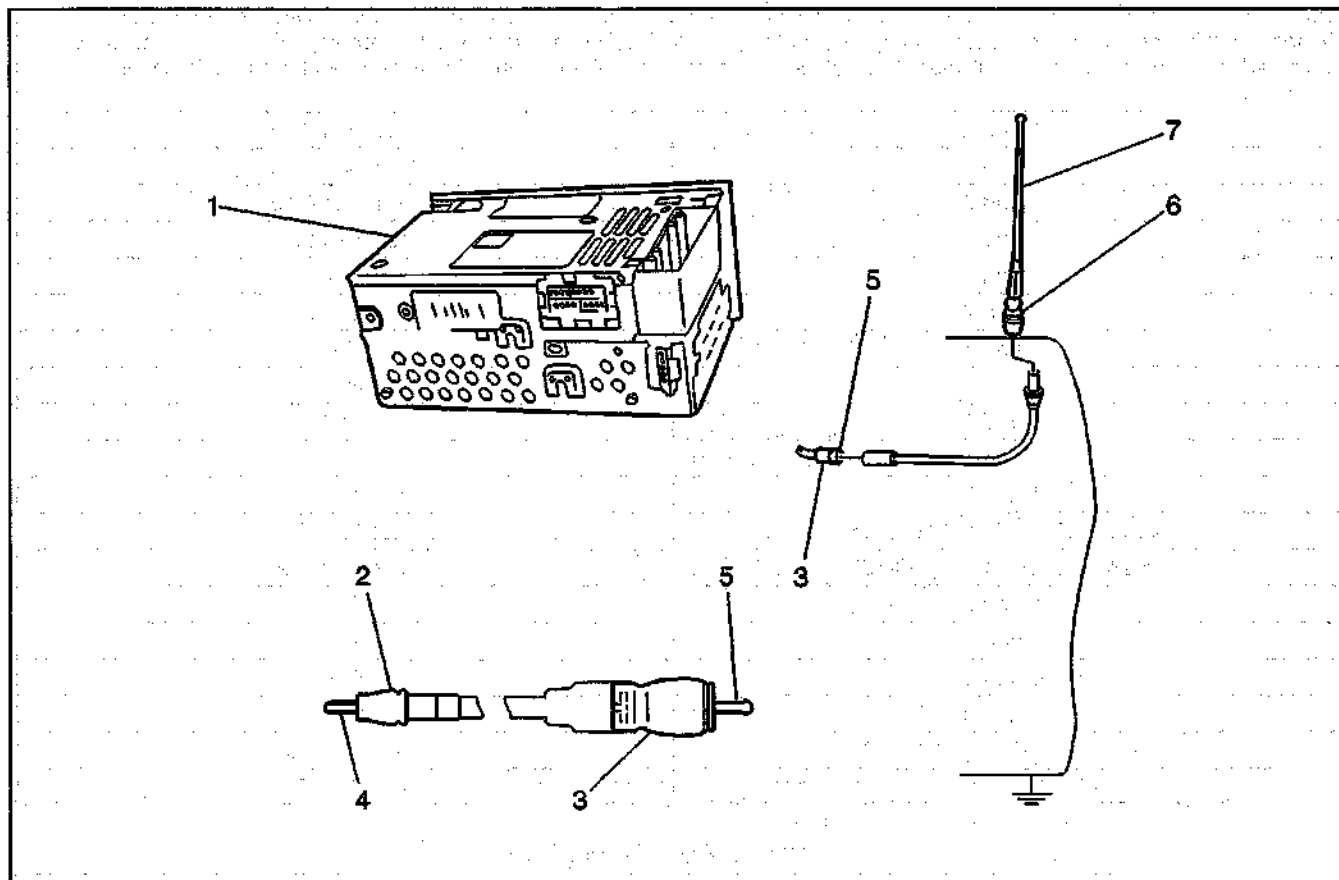
- Antenna Inoperative
- Antenna Poor Reception
- Compact Disc Inoperative
- Radio Memory Inoperative
- Radio Display Inoperative, Speakers Operative
- Radio Display Inoperative, No Sound from Speakers
- Radio Illumination Inoperative with Park Lamps On
- Tape Player Inoperative
- Steering Wheel Controls Inoperative
- Steering Wheel Controls Illumination Inoperative
- Speaker Noise - General
- Speakers General Diagnosis
- Speakers Inoperative - One or More (General W53, W54, W55, UQ0)
- Speakers Inoperative - One or More (Front Tweeter or Midrange UZ7, NW9, U59)
- Speakers Inoperative - One or More (Both Rear W53, W54, W55, UQ0)
- Speakers Inoperative - One or More (No Sound, Radio Oper Normally)
- Speakers Inoperative - One or More (Front Tweeter Inop UQ0, W53, W54, W55)
- Speakers Inoperative - One or More (Front Mid Inop UZ7, NW9, W54, W55, U59)
- Speakers Inoperative - One or More (One Rear Mid Inop W54, W55, UZ7, NW9, U59)
- Speakers Inoperative - One or More (One Rear Inop W53, W54, W55, UQ0)
- Speakers Inoperative - One or More (One Front Inop UQ0, W53, W54, W55)
- Speakers Inoperative - One or More (Both Lft Fr Inop W53, W54, W55, UQ0)
- Speakers Inoperative - One or More (Both Rt Fr Inop UQ0, W53, W54, W55)
- Speakers Inoperative - One or More (One Rear Tweeter Inop W53, W54, W55, UQ0)
- Speakers Inoperative - Subwoofer (UZ7, NW9, W54, W55)

Antenna Inoperative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the ACCY position. 2. Turn on the radio. Does the antenna move to the full mast position?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the radio power antenna connector. 2. Turn the ignition switch to the ACCY position. 3. Turn the radio on. 4. Connect a test lamp between terminal A of the radio power antenna connector and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Connect the test lamp between the radio power antenna connector terminal A and terminal C. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Repair a poor connection or an open in the battery voltage circuit of the antenna relay switch. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 11	—
6	Connect the test lamp between the radio power antenna connector terminal B and terminal C. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
7	Repair a poor connection or an open in the ground circuit of the power antenna. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 11	—
8	Replace the radio power antenna. Refer to <i>Power Antenna Motor Replacement</i> . Did you complete the replacement?	—	Go to Step 11	—
9	Inspect for and repair an open in the radio on signal circuit. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Is an open present?	—	Go to Step 11	Go to Step 10
10	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 11	—
11	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Antenna Poor Reception

Antenna System Test



565505

Legend

- | | |
|------------------------------|---------------------|
| (1) Radio Receiver | (5) Tip for Antenna |
| (2) Metal Case (Radio Tip) | (6) Antenna Base |
| (3) Metal Case (Antenna Tip) | (7) Antenna Mast |
| (4) Tip for Radio | |

Antenna System Resistance Values

Digital Multimeter Probe Points	Resistance Measured in Ω
Important: Remove the negative lead of the battery and zero the meter before measuring the resistance of the antenna. When checking resistance, cautiously wiggle the antenna mast, lead-in tip and cable. The readings listed below must be obtained. If the readings are other than those listed, some portion of the lead-in is intermittent and the lead-in should be replaced.	
1 and 2	less than 0.15
1 and 6	less than 0.15
2 and 3	less than 0.15
2 and 6	less than 0.15
1 and 4	Infinite
2 and 4	Infinite
2 and 5	Infinite
2 and 7	Infinite
1 and 5	Infinite
1 and 7	Infinite
1 and 3	less than 0.15
4 and 7 (RG-62 and RG-62M)	less than 3.5
4 and 7 (RG-58 and RG-59)	less than 0.2
4 and 2	Infinite
4 and 6	Infinite
4 and 3	Infinite
5 and 3	Infinite
4 and 5 (RG-62 and RG-62M)	less than 3.5
4 and 5 (RG-58 and RG-59)	less than 0.2

Antenna Poor Reception

Step	Action	Value(s)	Yes	No
1	1. Disconnect the antenna lead-in connector at the radio receiver. 2. Measure the resistance between the coax (outer conductor) connector and the negative battery cable with a DMM. Refer to <i>Circuit Testing in Wiring Systems</i> . Is the resistance value greater than 0.15 ?	$> 0.15 \Omega$	Go to Step 2	Go to Step 5
2	Inspect the base of the antenna. Is the connection good to the body ground?	—	Go to Step 3	Go to Step 6
3	Inspect the coaxial cable interconnects for a poor connection or corrosion. Refer to <i>Testing for Intermittent and Poor Connections in Wiring Systems</i> . Is either symptom present?	—	Go to Step 4	Go to Step 6
4	Inspect the ground connection from the battery negative cable to the body. Refer to <i>Testing for Intermittent and Poor Connections in Wiring Systems</i> . Is the connection good?	—	Go to Step 5	Go to Step 6
5	1. Grasp the antenna mast. 2. Wiggle the antenna while observing the DMM. Does the meter indicate intermittent continuity?	—	Go to Step 2	Go to Step 7
6	Repair the antenna ground circuit. Refer to <i>Antenna Mast Cleaning</i> . Is the repair complete?	—	System OK	—

Antenna Poor Reception (cont'd)

Step	Action	Value(s)	Yes	No
7	Measure the resistance between the radio coax lead-in connector (center conductor) and the antenna mast with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the measured resistance less than the specified values?	RG-58/RG-59: 0.2 Ω RG-62/RG-62M: 3.5 Ω	Go to Step 8	Go to Step 3
8	Wiggle the antenna coax while observing the DMM. Does the meter indicate intermittent continuity?	—	Go to Step 9	System OK
9	Inspect the coaxial cable interconnects for a poor connection or corrosion. Refer to <i>Testing for Intermittent and Poor Connections</i> in Wiring Systems. Is either symptom present?	—	Go to Step 10	System OK
10	Repair/replace the antenna coaxial circuit. Refer to <i>Power Antenna Motor Replacement</i> . Is the repair complete?	—	System OK	—

Compact Disc Inoperative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. 3. Insert a compact disc and operate. Does the compact disc player begin operating?	—	Go to Testing for Intermittent and Poor Connections in Wiring System	Go to Step 3
3	Is the CD skipping or mute?	—	Go to Step 5	Go to Step 4
4	Observe the CD player for the following conditions: • ERR is displayed. • The disc is ejected. Do either of the conditions exist?	—	Go to Step 8	Go to Step 5
5	Inspect the disc for one of the following conditions: • Improper insertion • Scratches • Dirt • Finger prints Are any of the conditions present?	—	Go to Step 6	Go to Step 7
6	Clean or replace the disc. Did you complete the repair?	—	Go to Step 14	—
7	Drive the vehicle on a usual route. Is the road rough?	—	Go to Step 9	Go to Step 10
8	Inspect the disc for one of the following conditions: • Improper insertion • Scratches • Dirt • Wet Are any of those conditions present?	—	Go to Step 6	Go to Step 12
9	Drive the vehicle on a good road surface. Is the symptom still present?	—	Go to Step 11	Go to Step 14
10	Test the player with a known good disc. Is the symptom still present?	—	Go to Step 11	Go to Step 14
11	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 14	—

Compact Disc Inoperative (cont'd)

Step	Action	Value(s)	Yes	No
12	Inspect the disc for condensation. Is condensation present?	—	Go to Step 13	Go to Step 11
13	Allow up to an hour in order for the condensation to evaporate. Is the symptom still present?	—	Go to Step 11	Go to Step 14
14	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Radio Memory Inoperative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Set the clock and the preset stations on the radio. 2. Turn the ignition to the OFF position. 3. Turn the ignition back to the RUN position. 4. Observe the clock and the preset stations. Do the clock and the preset stations remain where they were set?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the radio harness connector C1 terminal 10 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the repair?	—	Go to Step 6	—
5	Repair a poor connection or an open in the battery voltage circuit of the radio. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 6	—
6	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Radio Display Inoperative, Speakers Operative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. Does the radio display illuminate and the speakers operate properly?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the radio harness connector C1 terminal 6 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 5	Go to Step 4
4	Repair the open in the supply voltage circuit of the display illumination. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 6	—
5	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 6	—
6	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Radio Display Inoperative, No Sound from Speakers

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. Does the radio display illuminate and the speakers operate properly?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the radio harness connector C1. 2. Connect a test lamp between the radio harness connector C1 terminal 10 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5
4	Probe between the radio harness connector C1 terminal 10 and terminal 5. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
5	Repair a poor connection or an open in the battery voltage circuit of the radio. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
6	1. Probe between the radio harness connector C1 terminal 5 and terminal 9. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Turn the ignition switch to the RUN position. Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
7	Repair a poor connection or an open in the ground circuit of the radio. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
8	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Repair a poor connection or an open in the accessory voltage circuit of the radio. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Radio Illumination Inoperative with Park Lamps On

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. 3. Turn on the park lamps. Does the radio display illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Connect a test lamp between the radio harness connector C1 terminal 7 and ground. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the test lamp illuminate?	—	Go to Step 4	Go to Step 5

Radio Illumination Inoperative with Park Lamps On (cont'd)

Step	Action	Value(s)	Yes	No
4	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 6	—
5	Repair a poor connection or an open in the supply voltage circuit of the radio illumination. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in <i>Wiring Systems</i> . Did you complete the repair?	—	Go to Step 6	—
6	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Tape Player Inoperative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. 3. Insert a cassette tape and operate. Does the tape player operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Inspect the tape player for the following conditions: • Weak • Slow • Garbled Does the tape play in any of the above manners?	—	Go to Step 5	Go to Step 4
4	Inspect the tape player for an obstruction through the tape door. Is an obstruction present?	—	Go to Step 6	Go to Step 7
5	1. Clean the moving parts and the tape head using a cleaning cassette from J 39916-A. 2. Inspect the system. Is the symptom still present?	—	Go to Step 8	Go to Step 12
6	1. Remove the obstruction. 2. Inspect the system. Is the symptom still present?	—	Go to Step 10	Go to Step 12
7	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 12	—
8	Perform the motor speed test with the diagnostic test tape from J 39916-A. Is the motor speed OK?	—	Go to Step 9	Go to Step 7
9	Play a known good tape. Is the symptom still present?	—	Go to Step 7	Go to Step 12
10	1. Clean the moving parts and the tape head or use a cleaning cassette. 2. Inspect the system. Is the symptom still present?	—	Go to Step 11	Go to Step 12
11	Play the diagnostic test tape from J 39916-A. Does the test tape operate?	—	Go to Step 12	Go to Step 7
12	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Steering Wheel Controls Inoperative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. 3. Attempt to operate the radio functions using the steering wheel controls. Do the steering wheel controls operate the radio functions?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Turn the radio on. Are all of the radio functions operating normally from the radio?	—	Go to Step 4	Go to Step 5
4	1. Disconnect connector C217. 2. Measure the resistance with a DMM, probing between C217 (female side) terminal A and terminal C while pressing each of the steering wheel radio control buttons. Refer to <i>Circuit Testing</i> in Wiring Systems. 3. Compare the resistance values to the chart following the diagnosis table. Are the resistance values approximately equal?	—	Go to Step 6	Go to Step 7
5	1. Disconnect the radio connector C3. 2. Inspect the signal circuit of the steering wheel controls for a short to battery voltage or a short to ground. Refer to <i>Circuit Testing, Wiring Repairs or Connector Repairs</i> in Wiring Systems. Did you find and repair a short?	—	Go to Step 10	Go to Step 9
6	Test for and repair an open or a poor connection in the signal circuit of the steering wheel controls. Refer to <i>Circuit Testing or Testing for Intermittent and Poor Connections and Wiring Repairs or Connector Repairs</i> in Wiring Systems. Did you find and repair an open or a poor connection?	—	Go to Step 10	Go to Step 9
7	Caution: Refer to SIR Service Precautions Caution in Cautions and Notices. Inspect the SIR coil for an open or a poor connection. Did you find repair an open or a poor connection?	—	Go to Step 10	Go to Step 8
8	Replace the steering wheel controls. Refer to <i>Steering Wheel Control Switches Replacement</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Controls	Value
VOL (UP)	1270Ω
VOL (DOWN)	1564Ω
PLAY	1912Ω
MUTE	2387Ω
SEEK (UP)	3102Ω
SEEK (DOWN)	4282Ω
AM/FM	6652Ω
PRESET	13632Ω

Steering Wheel Controls Illumination Inoperative

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. 3. Turn on the park lamps. Do the steering wheel controls illuminate?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	Are all of the steering wheel controls illumination lamps inoperative?	—	Go to Step 5	Go to Step 4
4	Replace the steering wheel controls. Refer to <i>Steering Wheel Control Switch Assembly Replacement</i> . Did you complete the replacement?	—	Go to Step 13	—
5	1. Disconnect connector C217. 2. Turn the IP dimmer switch to maximum brightness. 3. Connect a test lamp from connector C217 terminal B to terminal D (male side). Refer to <i>Circuit Testing in Wiring Systems</i> . Does the test lamp illuminate?	—	Go to Step 6	Go to Step 7
6	1. Reconnect connector C217. 2. Backprobe the steering wheel controls connector from terminal B to terminal C. Refer to <i>Circuit Testing in Wiring Systems</i> . Does the test lamp illuminate?	—	Go to Step 10	Go to Step 13
7	Connect a test lamp between C217 terminal B and ground. Refer to <i>Circuit Testing in Wiring Systems</i> . Does the test lamp illuminate?	—	Go to Step 8	Go to Step 9
8	Repair the open in circuit 650 between C217 and S216. Refer to <i>Wiring Repairs in Wiring Systems</i> . Did you complete the repair?	—	Go to Step 13	—
9	Repair the open in circuit 1458 between the IP fuse block and connector C217. Refer to <i>Wiring Repairs in Wiring Systems</i> . Did you complete the repair?	—	Go to Step 13	—
10	Test for and repair a poor connection at the steering wheel controls. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs in Wiring Systems</i> . Did you find and repair a poor connection?	—	Go to Step 13	Go to Step 4
11	Test for and repair a poor connection at the steering wheel controls connector terminal B and terminal D. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs in Wiring Systems</i> . Did you find and repair a poor connection?	—	Go to Step 13	Go to Step 12
12	Replace the inflatable restraint steering wheel module coil. Refer to <i>Inflatable Restraint Steering Wheel Module Coil Replacement in SIR</i> . Did you complete the repair?	—	Go to Step 13	—
13	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

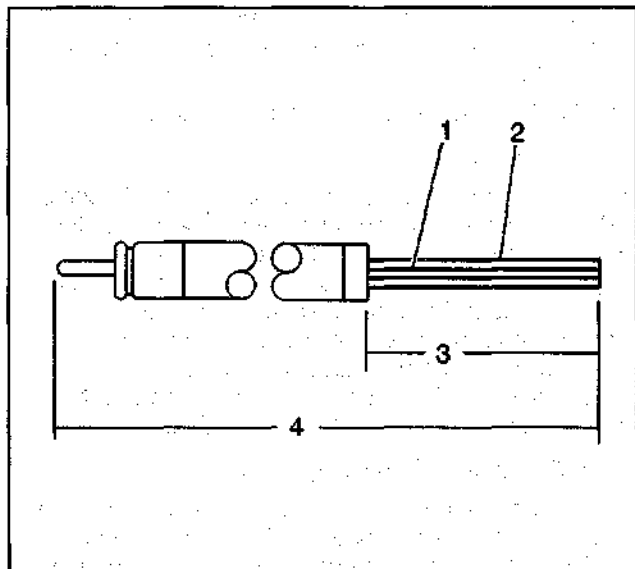
Speaker Noise - General

Use And Construction Of A Noise Sniffer

The noise sniffer can be used with the vehicle radio in order to locate hot spots generating radio noise interference. Hot spots can be found in the following locations:

- The harness
- The upper part of the dash
- Between the hood and the windshield

Making The Sniffer

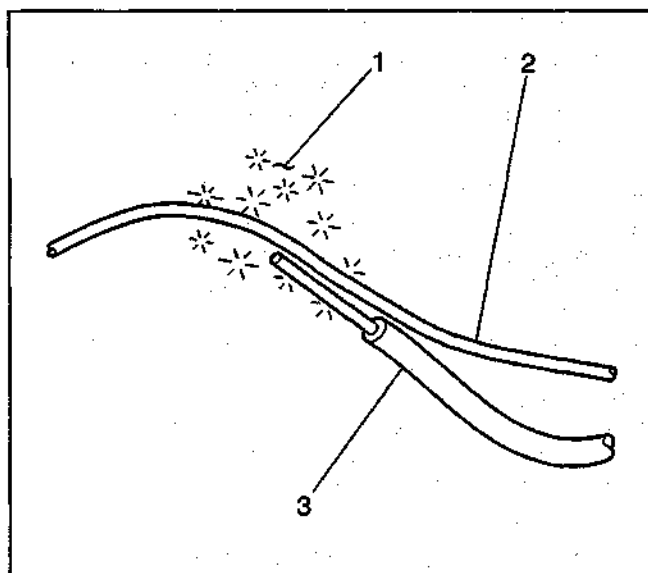


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1. Make the sniffer from an old piece of antenna lead-in from a mast or a power antenna.
2. Remove the antenna base connector from the antenna lead-in (4).
3. Cut away 2 inches of the coax shield (3).
The 2 inch section with the braided shield stripped back becomes the antenna when plugged into the radio antenna socket.

To Use The Noise Sniffer

1. Listen to the complaint noise.
2. Disconnect the antenna.
3. Plug the antenna into the antenna socket in order to probe and search out hot spots.
4. Turn the radio volume up.



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5. Search for the noise (1).

Keep your fingers off of the 2 inch probe.
For best results place the sniffer (3) parallel to the wire (2).

Speakers General Diagnosis

Tools Required

J 39916-A Audio System Diagnostic Kit

Important: Always compare the front speakers to the front and the rear speakers to the rear. Do not compare the front speaker to the rear speaker for the following reasons:

- The front speaker and the rear speaker may be different speakers.
- The speakers mounting environment could cause them to sound different.

Tones are used in order to test and evaluate coaxial speakers or other complex speaker systems. The following basic tones are used:

- 50 Hz tone
- 500 Hz warble tone
- 9 kHz spectral tone

The combination tone is a blend of the above three tones.

Bass/Sub-Woofer Test (50 Hz Sine Tone)

The 50 Hz tone is used to evaluate the bass response of an audio system. This tone is helpful in evaluating audio systems which have separate subwoofer amplifiers and speakers.

Midrange Speaker Test (500 Hz Warble Tone)

The 500 Hz warble tone is used for the evaluation of midrange speaker response. This tone is qualified as a warble tone because it has different audio characteristics than a sine tone. The warble tone produces a warble sound. It is best to use a warble tone than a sine wave at these tone midrange frequencies, because the location of a warble tone source (such as a speaker) is easier to identify. A normal sine tone can set up a standing wave within a vehicle which can make it difficult to determine its source location.

Tweeter Test (9 kHz Spectral Tone)

The 9 kHz spectral tone is used for tweeter or high frequency evaluation. This tone is a section of frequencies of equal amplitudes, ranging from 8.5–9.5 kHz. The 9 kHz spectral tone sounds similar to a group of crickets chirping.

The 9 kHz spectral tone is used for the following reasons:

- It is easy to locate the source of the 9 kHz spectral tone. The tone sounds much like a warble tone.
- The 9 kHz spectral tone is easy to identify, especially for people with high-end, hearing loss problems.

All Speaker Test

The combination tone can be used in order to diagnose numerous audio conditions, such as the following conditions:

- Distortion from the speakers
- No sound emitting

You can use the combination tone in order to make comparative AC voltage measurements on the speaker terminals. Before you make these measurements, ensure that the fade and balance controls are in the detent position. A determination can be made in the diagnosis of the speaker or the amplifier.

Speaker/Grill Rattle Test (50 Hz to 8 kHz Swept Sine)

The next portion of the tape can be used in order to diagnose rattle noises in the speaker and the grill. This portion of the tape has 2 tests:

- Two tones played back to back.
- Variable frequency tone.

Frequency change is at a much slower rate than the two tones played back to back test.

Both tests can be used in order to repair a speaker rattle or a buzz sound.

If you have already identified the specific problem area, you may complete the following actions:

- Set the fade and balance controls to the correct location.
- Play the test tones in the problem area.

Motor Speed Test

There is a 2 minute time period marked in this portion of diagnostic tape for the purpose of evaluating the cassette tape motor speed. This portion of the diagnostic tape can be used to verify complaints of abnormal sound from the cassette tape player. Improper tape motor speed can cause audio abnormalities, in some cases. If it takes 116–120 seconds in order to play this portion of the tape, the tape motor speed is acceptable.

Noise Diagnosis (Dead Space)

This portion of diagnostic tape can be used for noise diagnosis, such as alternator whine, switch pops, etc. These conditions can be easily detected during the dead space (the blank space in between subsequent songs). This portion of the diagnostic tape may be used in conjunction with *Speaker Noise General*.

Speakers Inoperative - One or More (General W53,W54,W55,UQ0)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do all of the speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the amplifier connector. 2. Turn the ignition switch to the ACCY position. 3. Turn the radio on. 4. Insert a cassette or compact disc from J 39916-A. 5. Set the radio balance and fade controls to the detent (center) position. 6. Set the radio volume at the normal listening level. 7. Measure and record the AC voltage between the amplifier connector terminals E2 and E3 with a DMM while playing the combination test tone from the cassette or the compact disc. Refer to <i>Circuit Testing</i> in Wiring Systems. 8. Measure and record the AC voltage between the amplifier connector terminals E1 and F1. Are the recorded voltages approximately the same?	—	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the amplifier connector terminals E2 and E3 (left) or E1 and F1 (right). Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 5
5	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
6	1. Backprobe the radio connector C1 between terminals 1 and 2 and record AC voltage with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Backprobe the radio connector C1 between terminals 3 and 4 and record the AC voltage. Are the recorded voltages approximately the same?	—	Go to Step 7	Go to Step 8
7	1. If the left speaker is inoperative, repair the open in the left front speaker output (-) circuit or the left front speaker output (+) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. 2. If the right speaker is inoperative, repair the open in the right front speaker output (-) circuit or the right front speaker output (+) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—

Speakers Inoperative - One or More (General W53,W54,W55,UQ0) (cont'd)

Step	Action	Value(s)	Yes	No
8	1. If the left speaker is inoperative, inspect for the following conditions: - A short to battery voltage or a short to ground in the left front speaker output (-) circuit and the left front speaker output (+) circuit. Refer to <i>Circuit Testing and Wiring Repairs</i> in Wiring Systems. - A poor connection at the radio connector C1 terminal 1 and terminal 2. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. 2. If the right speaker is inoperative, inspect for the following conditions: - A short to battery voltage or a short to ground in the right front speaker output (-) circuit and the right front speaker output (+) circuit. Refer to <i>Circuit Testing and Wiring Repairs</i> in Wiring Systems. - A poor connection at the radio connector C1 terminal 3 and terminal 4. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a short or a poor connection?	—	Go to Step 10	Go to Step 9
9	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i>. Did you complete the replacement?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (Front Tweeter or Midrange UZ7,NW9,U59)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do the front tweeter speakers and the midrange speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the ACCY position. 2. Turn the radio on. 3. Insert a cassette or compact disc from J 39916-A. 4. Set the radio balance and fade controls to the detent (center) position. 5. Set the radio volume at the normal listening level. 6. Play the combination test tone from the cassette or CD. 7. Backprobe the speaker assembly connector between terminals A and B (tweeter) or terminals C and D (midrange) with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	0V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the inoperative speaker assembly. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 12	Go to Step 5

Speakers Inoperative - One or More (Front Tweeter or Midrange UZ7,NW9,U59) (cont'd)

Step	Action	Value(s)	Yes	No
5	Replace the speaker if the connection is OK. Refer to <i>Speaker Replacement - Front</i> . Did you complete the replacement?	—	Go to Step 12	—
6	1. Turn the ignition switch to the OFF position. 2. Disconnect the amplifier connector. 3. Probe the amplifier connector between the output (+) and output (-) circuits of the inoperative speaker with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Does the resistance measure within the specified range?	2-4Ω	Go to Step 7	Go to Step 10
7	Inspect the speaker output (+) circuit and the speaker output (-) circuit for a short to battery voltage or a short to ground between the speaker assembly and the amplifier. Refer to <i>Circuit Testing and Wiring Repairs</i> in Wiring Systems. Did you find and repair a short?	—	Go to Step 12	Go to Step 8
8	Inspect for and repair a poor connection at the amplifier. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 12	Go to Step 9
9	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 12	—
10	Inspect for and repair a poor connection at the speaker. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 12	Go to Step 11
11	Repair an open in the speaker assembly output (+) circuit or the speaker assembly output (-) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
12	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (Both Rear W53,W54,W55,UQ0)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do both rear speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the amplifier connector. 2. Turn the ignition switch to ACCY. 3. Turn the radio on. 4. Insert a cassette or compact disc from J 39916-A. 5. Set the radio balance and fade controls to the detent (center) position. 6. Set the radio volume at the normal listening level. 7. Play the combination test tone from the cassette or CD. 8. Use a DMM in order to measure the AC voltage between the amplifier connector terminals E6 and E7. Refer to <i>Circuit Testing</i> in Wiring Systems. 9. Measure the AC voltage between the amplifier connector terminals E4 and E5. Refer to <i>Circuit Testing</i> in Wiring Systems. Record the voltage. Are the voltage readings approximately the same?	—	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the amplifier connector terminals E6 and E7 (left) or terminals E4 and E5 (right). Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 5
5	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
6	1. Use a DMM in order to backprobe the radio connector C3 between terminal 19 and terminal 20. Refer to <i>Circuit Testing</i> in Wiring Systems. 2. Probe the radio connector C3 between the terminal 17 and terminal 18. 3. Record each voltage reading. Are the voltages approximately the same?	—	Go to Step 7	Go to Step 8
7	1. For left inoperative speakers, repair the open in the left rear speaker output (-) circuit or the left rear speaker output (+) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. 2. For right inoperative speakers, repair the open in the right rear speaker output (-) circuit or the right rear speaker output (+) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 10	—

Speakers Inoperative - One or More (Both Rear W53,W54,W55,UQ0) (cont'd)

Step	Action	Value(s)	Yes	No
8	1. If the left speaker is inoperative, inspect for the following conditions: - A short to battery voltage or a short to ground in the left rear speaker output (-) circuit or the left rear speaker output (+) circuit. Refer to <i>Circuit Testing and Wiring Repairs</i> in Wiring Systems. - A poor connection at the radio connector C3 terminal 19 and terminal 20. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. 2. If the right speaker is inoperative, inspect for the following conditions: - A short to battery voltage or a short to ground in the right rear speaker output (-) circuit or the right rear speaker output (+) circuit. Refer to <i>Circuit Testing and Wiring Repairs</i> in Wiring Systems. - A poor connection at the radio connector C3 terminal 17 and terminal 18. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a short or a poor connection?	—	Go to Step 10	Go to Step 9
9	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i>. Did you complete the replacement?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (No Sound, Radio Oper Normally)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do all of the speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the amplifier connector. 2. Turn the ignition switch to the ACCY position. 3. Turn the radio on. 4. Insert a cassette or compact disc from J 39916-A. 5. Set the radio balance and fade controls to the detent (center) position. 6. Set the radio volume at the normal listening level. 7. Play the combination test tone from the cassette or CD. 8. Backprobe the speaker assembly connector between terminals E6 and E7. Refer to <i>Circuit Testing</i> in Wiring Systems. 9. Record the voltage reading. Is the voltage greater than the specified value?	0V AC	Go to Step 4	Go to Step 5
4	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i>. Did you complete the replacement?	—	Go to Step 6	—
5	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i>. Did you complete the replacement?	—	Go to Step 6	—
6	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (Front Tweeter Inop UQ0,W53,W54,W55)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do both front tweeter speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the connector C240. 2. Turn the ignition switch to the ACCY position. 3. Turn the radio on. 4. Insert a cassette or compact disc from J 39916-A. 5. Set the radio balance and fade controls to the detent (center) position. 6. Set the radio volume at the normal listening level. 7. Play the tweeter test tone from the cassette or CD. 8. Use a DMM in order to measure the AC voltage between C240 connector terminal B and terminal C (left) or terminal F and terminal G (right). Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	0V AC	Go to Step 4	Go to Step 5
4	1. Reconnect the connector C240. 2. Disconnect the inoperative speaker connector. 3. Use a DMM in order to measure the AC voltage between the speaker connector terminal A and terminal B on the harness side. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	0V AC	Go to Step 6	Go to Step 5
5	• If the left front tweeter is inoperative, repair an open or a poor connection in the left front speaker output (-) circuit or the left front speaker output (+) circuit. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. • If the right front tweeter is inoperative, repair an open or a poor connection in the right front speaker output (-) circuit or the right front speaker output (+) circuit. Refer to <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
6	Inspect for and repair a poor connection at the speaker connector terminals A and B. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 8	Go to Step 7
7	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 8	—
8	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (Front Mid Inop UZ7,NW9,W54,W55,U59)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do the front midrange speakers operate properly?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the ACCY position. 2. Turn the radio on. 3. Insert a cassette or compact disc from J 39916-A. 4. Set the radio balance and fade controls to the detent (center) position. 5. Set the radio volume at the normal listening level. 6. Play the midrange test tone from the cassette or CD. 7. Use a DMM in order to backprobe the inoperative speaker connector between terminal A and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	0V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the inoperative speaker assembly. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 5
5	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
6	1. Turn the ignition switch to the OFF position. 2. Disconnect the amplifier connector. 3. Use a DMM in order to measure the resistance between the amplifier connector terminals E15 and E16 (left) or terminals F6 and F7 (right). Refer to <i>Circuit Testing</i> in Wiring Systems. Are the resistances similar to the specified value?	2Ω	Go to Step 7	Go to Step 9
7	Inspect the speaker output (+) circuit and the speaker output (-) circuit for a short to battery voltage, a short to ground, an open, or a poor connection. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a short, an open, or a poor connection?	—	Go to Step 10	Go to Step 8
8	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Inspect for and repair a poor connection or an open in the speaker output (+) circuit and the speaker output (-) circuit. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection or an open?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (One Rear Mid Inop W54,W55,UZ7,NW9,U59)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do both rear midrange speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the ACCY position. 2. Turn the radio on. 3. Insert a cassette or compact disc from J 39916-A. 4. Set the radio balance and fade controls to the detent (center) position. 5. Set the radio volume at the normal listening level. 6. Play the midrange test tone from the cassette or CD. 7. Use a DMM in order to backprobe the inoperative speaker connector between terminal A and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	0V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the inoperative speaker assembly. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 5
5	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
6	1. Turn the ignition switch to the OFF position. 2. Disconnect the amplifier connector. 3. Measure the resistance between the amplifier connector terminals F15 and F16 (left) or terminals F13 and F14 (right). Refer to <i>Circuit Testing</i> in Wiring Systems. Are the resistances similar to the specified value?	4Ω	Go to Step 7	Go to Step 9
7	Inspect the speaker output (+) circuit and the speaker output (-) circuit for a short to battery voltage, a short to ground, an open, or a poor connection. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a short, an open, or a poor connection?	—	Go to Step 10	Go to Step 8
8	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
9	Inspect for a poor connection or an open in the speaker output (+) circuit or the speaker output (-) circuit. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection or an open?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (One Rear Inop W53,W54,W55,UQ0)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do all of the rear speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the ACCY position. 2. Turn the radio on. 3. Insert a cassette or compact disc from J 39916-A. 4. Set the radio balance and fade controls to the detent (center) position. 5. Set the radio volume at the normal listening level. 6. Play the combination test tone from the cassette or CD. 7. Use a DMM in order to backprobe the inoperative speaker connector between terminal A and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	> 0V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the inoperative speaker assembly. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 5
5	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 10	—
6	1. Turn the ignition switch to the OFF position. 2. Disconnect the radio connector C3. 3. Probe the radio connector C3 between terminal 19 and terminal 20 (left) or terminal 17 and terminal 18 (right) in order to measure the resistance with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the resistance similar to the specified value?	10 Ω	Go to Step 8	Go to Step 7
7	Inspect the speaker output (+) circuit and the speaker output (-) circuit for a short to battery voltage, a short to ground, an open, or a poor connection. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did find and repair a short, an open, or a poor connection?	—	Go to Step 10	Go to Step 9
8	Inspect for and repair a poor connection at the radio connector C3. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 10	Go to Step 9
9	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 10	—
10	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (One Front Inop UQ0,W53,W54,W55)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do all of the front speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the ACCY position. 2. Turn the radio on. 3. Insert a cassette or compact disc from J 39916-A. 4. Set the radio balance and fade controls to the detent (center) position. 5. Set the radio volume at the normal listening level. 6. Play the combination test tone from the cassette or CD. 7. Use a DMM in order to backprobe the inoperative speaker connector between terminal A and terminal B. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	> 0V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the inoperative speaker assembly. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 8	Go to Step 5
5	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 8	—
6	Inspect for and repair an open or a poor connection in the left front speaker output (-) circuit or the right front speaker output (-) circuit. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you find and repair an open, a short, or a poor connection?	—	Go to Step 8	Go to Step 7
7	Repair the open or the poor connection in the left front speaker output (+) circuit or the right front speaker output (+) circuit. Refer to <i>Circuit Testing</i> or <i>Testing for Intermittent and Poor Connections</i> and <i>Wiring Repairs</i> or <i>Connector Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 8	—
8	Operate the system to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (Both Lft Fr Inop W53,W54,W55,UQ0)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do both left front speakers operate properly?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the radio connector C1. 2. Measure the resistance between the radio connector C1 terminal 1 and terminal 2 with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the resistance less than the specified value?	10Ω	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the radio connector C1 terminal 1 and terminal 2. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 5
5	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 7	—
6	Inspect the speaker output (+) circuit and the speaker output (-) circuit for a short to ground or an open. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short to ground or an open?	—	Go to Step 7	—
7	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (Both Rt Fr Inop UQ0,W53,W54,W55)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Do both right front speakers operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the radio connector C1. 2. Measure the resistance between the radio connector C1 terminal 3 and terminal 4 with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the resistance less than the specified value?	10Ω	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the radio connector C1 terminals 3 and 4. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 5
5	Replace the radio. Refer to <i>Radio Replacement (Chevrolet)</i> or <i>Radio Replacement (Pontiac)</i> . Did you complete the replacement?	—	Go to Step 7	—
6	Inspect the speaker output (+) circuit and the speaker output (-) circuit for a short to ground or an open. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair an open or a short to ground?	—	Go to Step 7	—
7	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - One or More (One Rear Tweeter Inop W53,W54,W55,UQ0)

Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn on the radio. Do the rear tweeters operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Disconnect the amplifier connector. 2. Turn the ignition switch to the ACCY position. 3. Turn the radio on. 4. Insert a cassette or compact disc from J 39916-A. 5. Set the radio balance and fade controls to the detent (center) position. 6. Set the radio volume at the normal listening level. 7. Play the combination test tone from the cassette or CD. 8. With a DMM backprobe the inoperative speaker connector between terminal A and terminal B on the harness side. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the voltage greater than the specified value?	0V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the speaker terminal A and terminal B. Refer to <i>Testing for Intermittent and Poor Connections</i> and <i>Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 7	Go to Step 5
5	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 7	—
6	- If the left rear tweeter is inoperative, perform the following actions: - Inspect for an open in the left rear speaker output (+) circuit. Repair if necessary. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. - If OK, repair the open in the left rear speaker output (-) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. - If the right rear tweeter is inoperative, perform the following actions: - Inspect for the open in the right rear speaker output (+) circuit. Repair if necessary. Refer to <i>Circuit Testing</i> or <i>Wiring Repairs</i> in Wiring Systems. - If OK, repair an open in the right rear speaker output (-) circuit. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 7	—
7	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Speakers Inoperative - Subwoofer (UZ7,NW9,W54,W55)

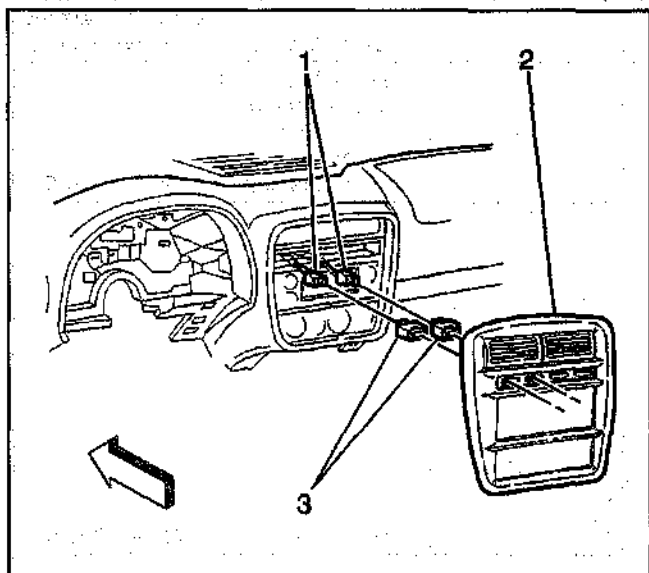
Step	Action	Value(s)	Yes	No
1	Did you review the system operation and perform the necessary inspections?	—	Go to Step 2	Go to Symptoms - Entertainment
2	1. Turn the ignition to the RUN position. 2. Turn the radio on. Does the subwoofer operate normally?	—	Go to Testing for Intermittent and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn the ignition switch to the ACCY position. 2. Turn the radio on. 3. Insert a cassette or compact disc from J 39916-A. 4. Set the radio balance and fade controls to the detent (center) position. 5. Set the radio volume at the normal listening level. 6. Play the combination test tone from the cassette or CD. 7. Backprobe with a DMM between terminal A and terminal B of the inoperative speaker. Does the meter reading vary above the specified value?	> 3V AC	Go to Step 4	Go to Step 6
4	Inspect for and repair a poor connection at the speaker. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 12	Go to Step 5
5	Replace the speaker. Refer to <i>Speaker Replacement (Coupe)</i> or <i>Speaker Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 12	—
6	1. Turn the ignition switch to the OFF position. 2. Disconnect the amplifier connector. 3. Probe the amplifier connector between the speaker output (+) circuit and the speaker output (-) circuit of the inoperative speaker with a DMM. Refer to <i>Circuit Testing</i> in Wiring Systems. Is the resistance within the specified range?	2-4Ω	Go to Step 7	Go to Step 10
7	Inspect the speaker output circuit and the speaker output circuit for a short to battery voltage or a short to ground. Refer to <i>Circuit Testing</i> and <i>Wiring Repairs</i> in Wiring Systems. Did you find and repair a short?	—	Go to Step 12	Go to Step 8
8	Inspect for and repair a poor connection at the amplifier. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 12	Go to Step 9
9	Replace the amplifier. Refer to <i>Amplifier Replacement (Coupe)</i> or <i>Amplifier Replacement (Convertible)</i> . Did you complete the replacement?	—	Go to Step 12	—
10	Inspect for and repair a poor connection at the speaker. Refer to <i>Testing for Intermittent and Poor Connections and Connector Repairs</i> in Wiring Systems. Did you find and repair a poor connection?	—	Go to Step 12	Go to Step 11
11	Repair an open in the speaker output (+) circuit or the speaker output (-) circuit between the speaker and the amplifier. Refer to <i>Wiring Repairs</i> in Wiring Systems. Did you complete the repair?	—	Go to Step 12	—
12	Operate the system in order to verify the repair. Did you correct the condition?	—	System OK	Go to Step 3

Repair Instructions

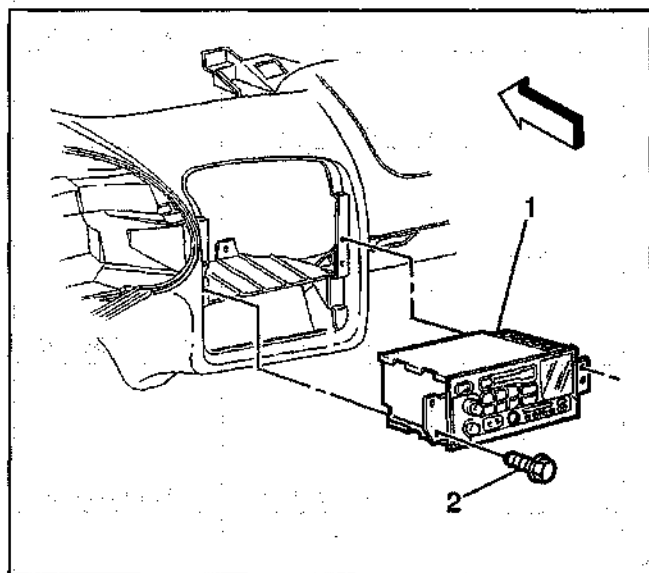
Radio Replacement (Chevrolet)

Removal Procedure

1. Unsnap the instrument panel (IP) accessory trim plate (2).
2. Disconnect the electrical connectors (1) from the switches (3), if equipped.



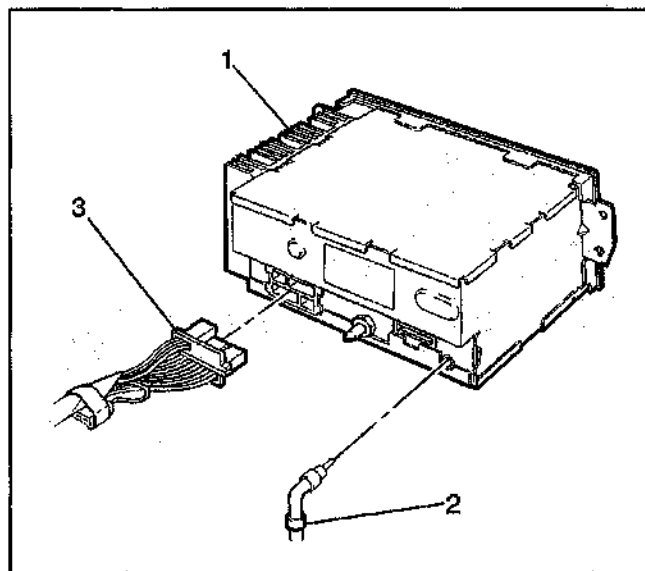
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3. Remove the radio bracket bolts (2).
4. Slide the radio (1) out from the IP.

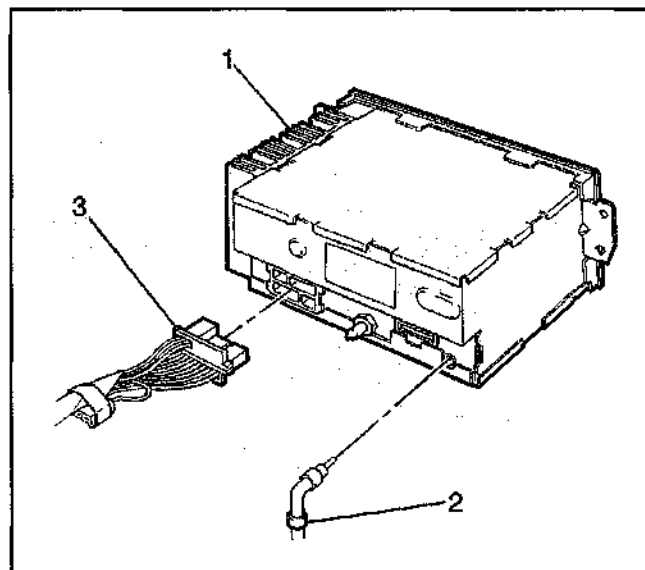
5. Disconnect the following components from the radio (1):
 - The antenna cable (2)
 - The IP wiring harness connector (3)
6. Remove the radio (1) from the vehicle.



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Installation Procedure

1. Install the radio (1) to the vehicle.
2. Connect the following components to the radio (1):
 - The antenna cable (2)
 - The IP wiring harness connector (3)



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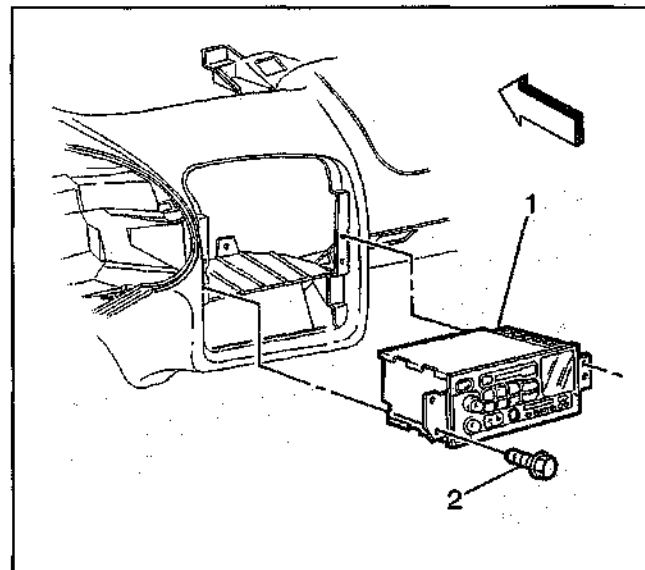
3. Slide the radio (1) into the IP.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

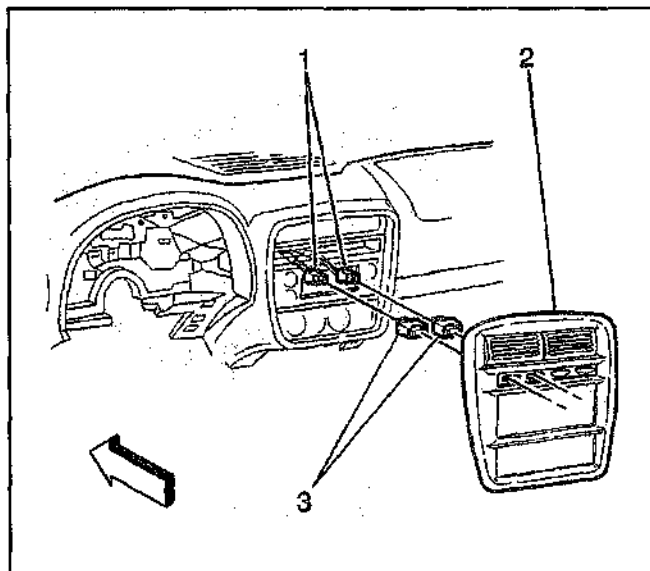
4. Install the radio bracket bolts (2).

Tighten

Tighten the radio bracket bolts (2) to 1.8 N·m (16 lb in).

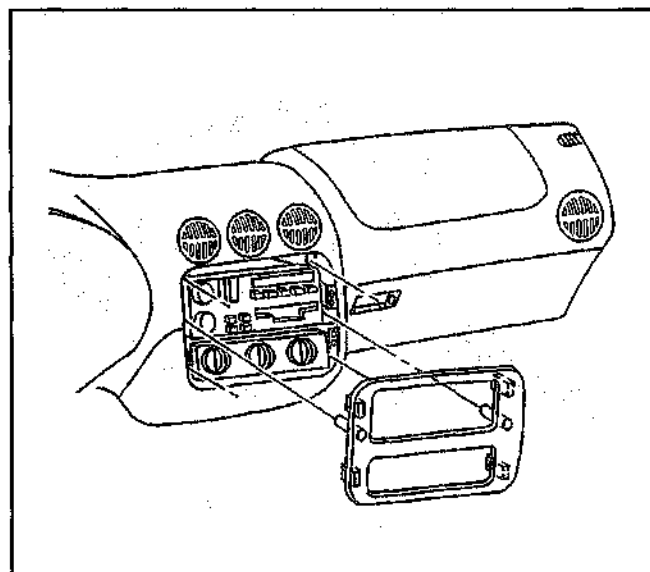


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5. Connect the electrical connectors (1) to the switches (3), if equipped.
6. Install the IP accessory trim plate (2).
7. Disable the radio Theftlock® feature. Refer to *Radio/Audio System Operation-Theftlock* in Entertainment.

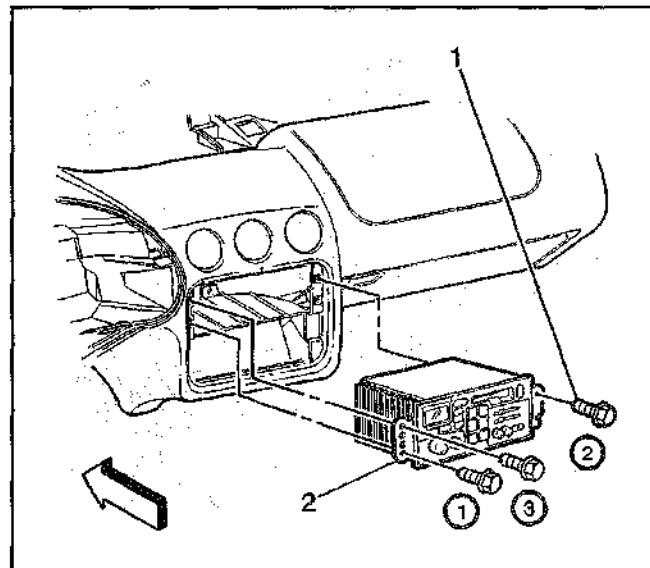


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Radio Replacement (Pontiac)

Removal Procedure

1. Unsnap the instrument panel (IP) accessory trim plate.



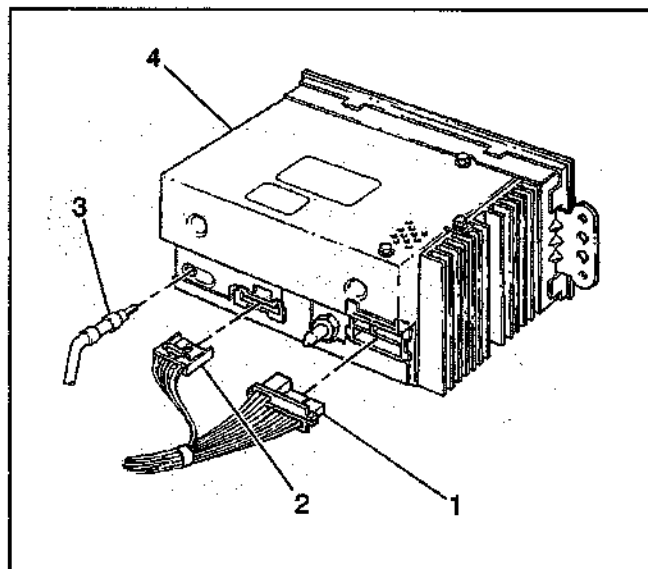
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2. Remove the radio bracket bolts (1).
3. Slide the radio (2) out from the IP.

4. Remove the following components from the radio (4):

- The IP wiring harness connector (1)
- The remote CD connector (2)
- The antenna cable (3)

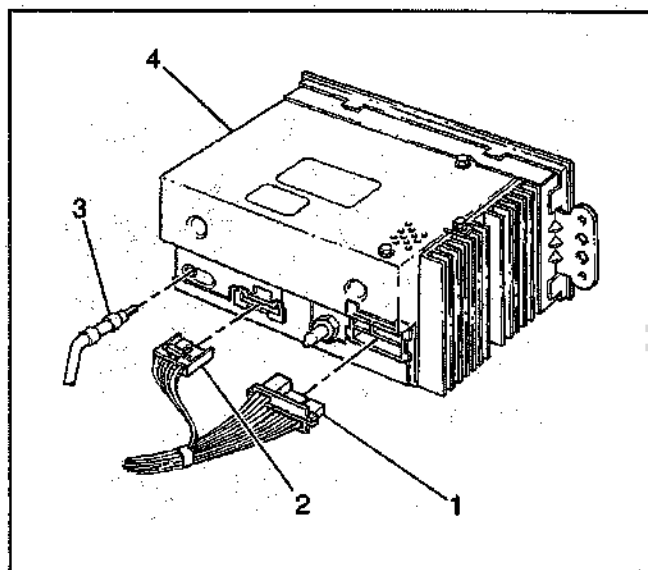
5. Remove the radio (4) from the vehicle.



296702

Installation Procedure

1. Install the radio (4) to the vehicle.
2. Install the following components to the radio (4):
 - The antenna cable (3)
 - The remote CD connector (2)
 - The IP wiring harness connector (1)



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3. Slide the radio (2) into the IP.

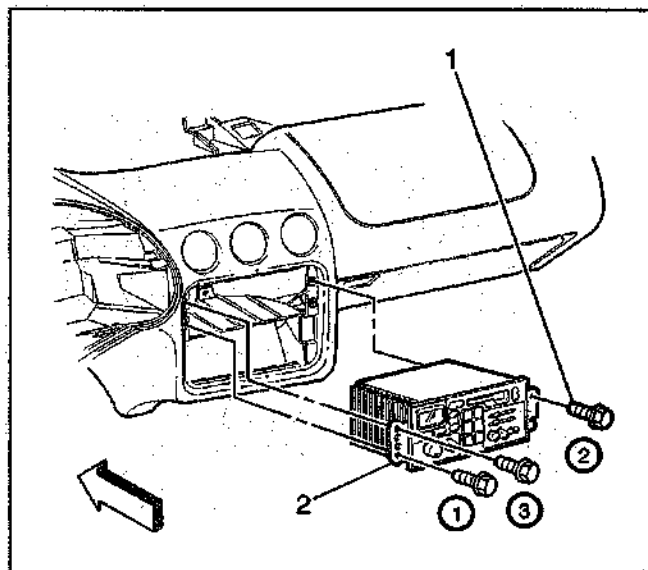
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the radio bracket bolts (1) in the following sequence:

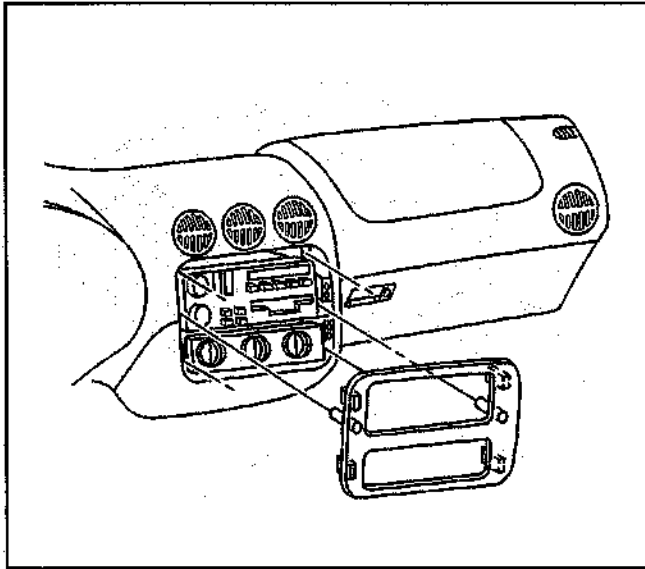
- 4.1. Lower left
- 4.2. Upper right
- 4.3. Upper left

Tighten

Tighten the radio bracket bolts (1) to 1.8 N·m (16 lb in).

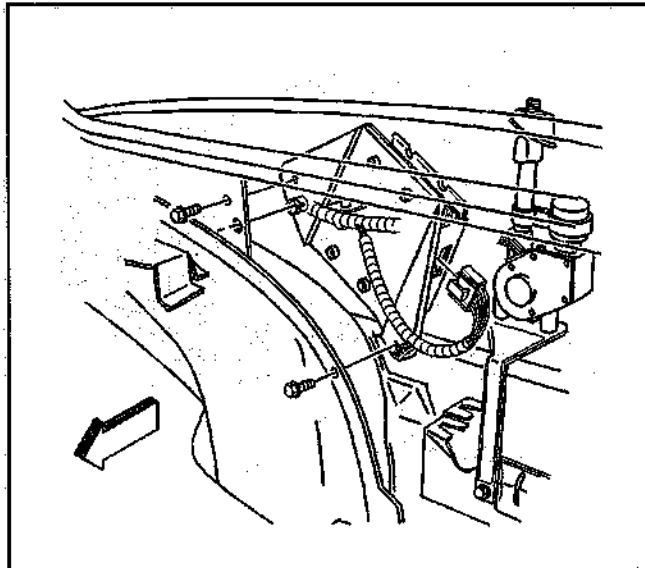


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5. Install the IP accessory trim plate.
6. Disable the radio Theftlock® feature. Refer to *Radio/Audio System Operation-Theftlock* in Entertainment.

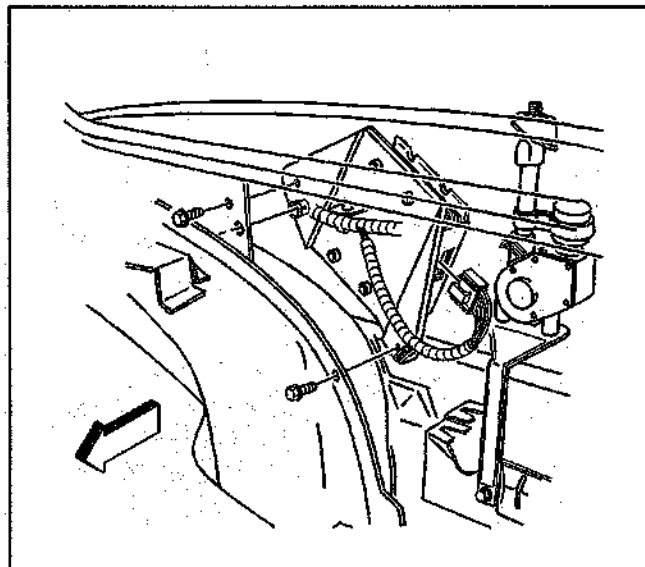


535692

Amplifier Replacement (Coupe)

Removal Procedure

1. Remove the quarter inner rear trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Side (Coupe)* in Interior Trim.
2. Remove the amplifier bolts.
3. Squeeze the pin ends together.
4. Push the retaining pin through the hole in the quarter inner rear panel.
5. Lift the amplifier up in order to disengage the clip from the wheelhouse flange.
6. Disconnect the amplifier electrical connector.
7. Remove the amplifier from the vehicle.



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Installation Procedure

1. Install the amplifier to the vehicle.
2. Connect the amplifier electrical connector.
3. Align the pin on the amplifier to the hole in the quarter inner rear panel.
4. Snap the pin into the hole.
5. Place clip over rear wheelhouse flange.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

6. Install the amplifier bolts.

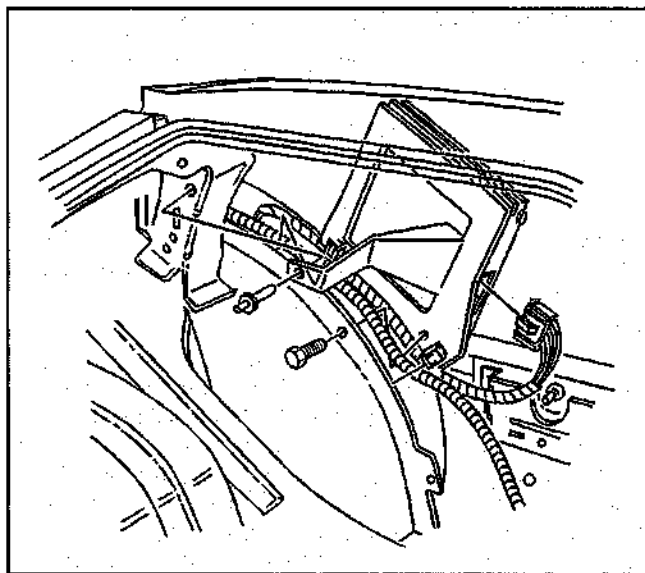
Tighten

Tighten the amplifier bolts to 4 N·m (35 lb in).

7. Install the quarter inner rear trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Side (Coupe)* in Interior Trim.

Amplifier Replacement (Convertible)**Removal Procedure**

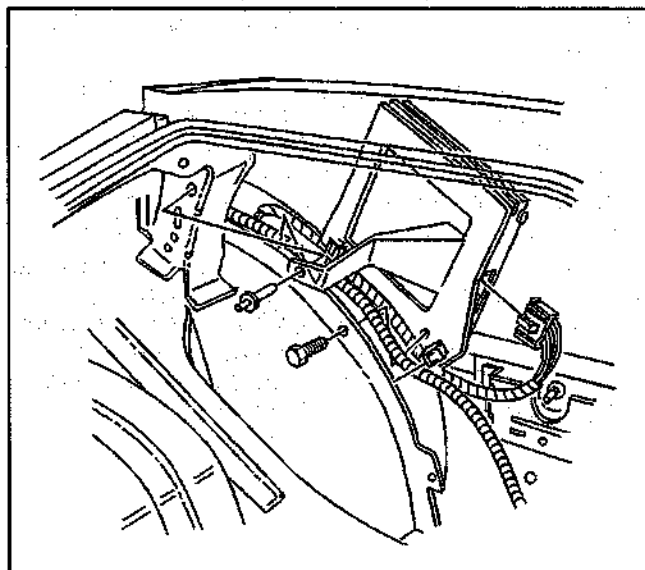
1. Remove the right side compartment trim.
2. Drill out the rivet from the bracket.
3. Remove the amplifier bolt.
4. Lift the amplifier up in order to disengage the clips from the wheelhouse flange.
5. Disconnect the amplifier electrical connector.
6. Remove the amplifier from the vehicle.



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Installation Procedure

1. Install the amplifier to the vehicle.
2. Connect the amplifier electrical connector.
3. Place tabs on the amplifier over the rear wheelhouse flange.
4. Position the amplifier bracket leg onto the inboard side of the support panel frame.
5. Install the amplifier bolt.
6. Install the rivet through the hole in the amplifier bracket and through the support.
7. Install the right side compartment trim.



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Cassette Player Care and Cleaning

A tape player that is not cleaned regularly can cause the following problems:

- Reduced sound quality
- Ruined cassettes
- Damaged mechanisms.

Cassette tapes should be stored in their cases away from contaminants, direct sunlight and extreme heat. If not, they may not operate properly or may cause failure of the tape player.

Clean the tape player regularly after every 50 hours of use. The radio may display CLN to indicate that the tape player has been used for 50 hours without resetting the tape clean timer. If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but should be cleaned as soon as possible to prevent damage to the tapes and/or tape player. If there is a reduction in sound quality, try a known good cassette to see if it is the tape or the tape player at fault. If this other cassette has no improvement in sound quality, clean the tape player.

The recommended cleaning method for the cassette tape player is the use of a scrubbing action, non-abrasive cleaning cassette with pads which scrub the tape head as the hubs of the cleaner cassette turn. The recommended cleaning cassette is GM P/N 12344789.

When using a scrubbing action, non-abrasive cleaning cassette, it is normal for the cassette to eject because the unit is equipped with a cut tape detection feature and a cleaning cassette may appear as a broken tape. To prevent the cleaning cassette from being ejected, use the following steps.

If the vehicle is equipped with an AM-FM stereo with cassette tape player:

1. Turn the ignition to RUN or ACC.
2. Turn the radio on.
3. Insert the scrubbing action cleaning cassette.
4. Within 5 seconds, press and hold the REV and FWD buttons at the same time for 3 seconds. The tape symbol on the display will flash, showing that the cut tape detection feature is no longer active.
5. Eject the cleaning cassette after the manufacturer's recommended cleaning time.

If the vehicle is equipped with an AM-FM stereo with cassette tape player and automatic tone control:

1. Turn the ignition to RUN or ACC.
2. Turn the radio off.
3. Press and hold the TAPE AUX button for 5 seconds. The tape symbol on the display will flash for 2 seconds.
4. Insert the scrubbing action cleaning cassette.
5. Eject the cleaning cassette after the manufacturer's recommended cleaning time.

When the cleaning cassette has been ejected, the cut tape detection feature is active again.

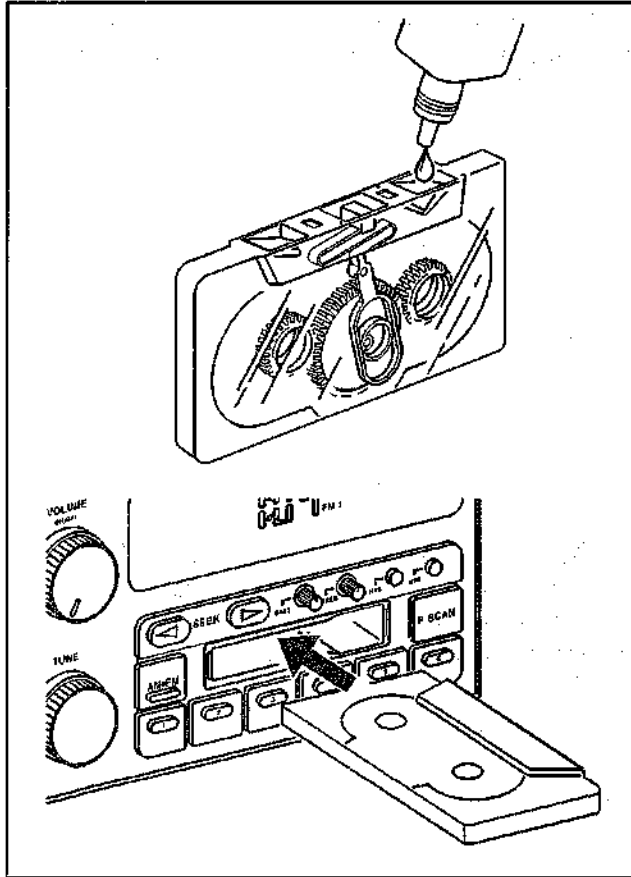
A non-scrubbing action, wet-type cleaner which uses a cassette with a fabric belt to clean the tape head.

This type of cleaning cassette will not eject on its own.

A non-scrubbing action cleaner may not clean as thoroughly as the scrubbing type cleaner. The use of a non-scrubbing action, dry-type cleaning cassette is not recommended.

After cleaning the player, press and hold EJECT for 5 seconds to reset the CLN indicator. The radio will display --- to show the indicator was reset.

Cleaning Tape Head and Capstan, Cassette Cleaning



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Clean the following components of the tape player after every 50 hours of cassette operation:

- The head
- The capstan

Leave the radio in the vehicle when you clean the above components. You can access the components through the tape door.

Use one of the following items in order to clean the head and the capstan:

- A cotton swab dipped in rubbing alcohol
- A cassette cleaning kit

Follow the instructions with the kit in order to clean the tape player.

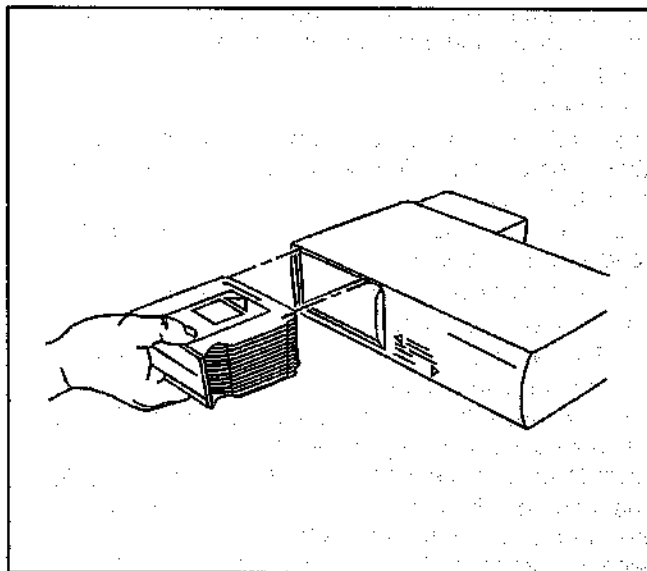
Do not contact the tape head with magnetized tools. If the head becomes magnetized, the head will degrade every cassette tape played in the tape player. The tape deck has an added function that helps prevent damage if the cassette tape breaks or becomes jammed. The tape deck may eject the scrubbing-type, cleaning cartridge after about 5 seconds. Therefore, insert the scrubbing-type cleaner at least 3 times in order to clean the deck thoroughly.

A non-scrubbing, wet type tape cleaner can be used in place of the scrubbing type. The non-scrubbing, wet type uses a fabric belt in place of the tape and will not eject after 5 seconds. However, the non-scrubbing, wet type tape cleaner may not provide a thorough cleaning, such as the scrubbing type cleaner.

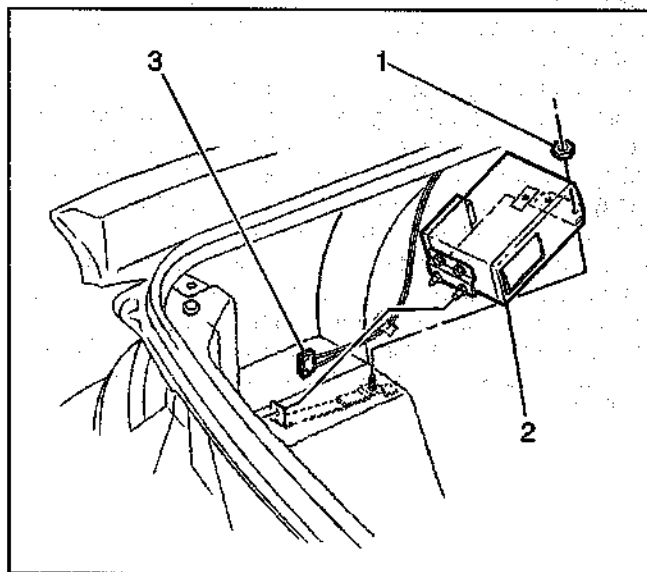
No service is provided on tape cassettes. The cassette manufacturer handles the warranties of the cassettes. The test cassette used by the dealer should be stored in its container in order to remain clean. Store the cassettes away from extreme heat and direct sunlight.

Remote CD Changer Replacement (Coupe)**Removal Procedure**

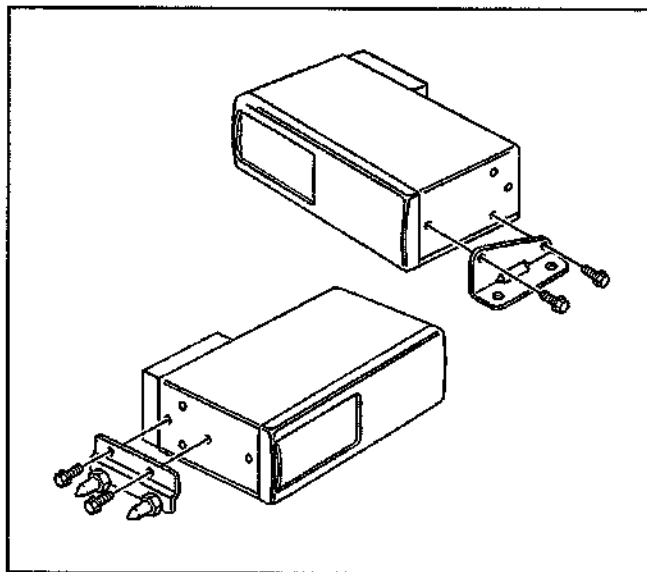
1. Open the rear compartment lift window panel.
2. Remove the compact disc (CD) magazine from the CD player.



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3. Remove the CD changer mounting nut (1).
4. Disconnect the CD changer electrical connector (3).
5. Remove the CD changer (2).

6. Remove the bolts and the brackets from the CD changer, as needed.
7. If you will transport or ship the CD changer, reinstall the shipper pin. Insert the pin into the top of the changer. Use tape in order to fix the pin in place.
8. If you install a new CD changer, remove the shipper pin. Cover the hole with the supplied adhesive material.

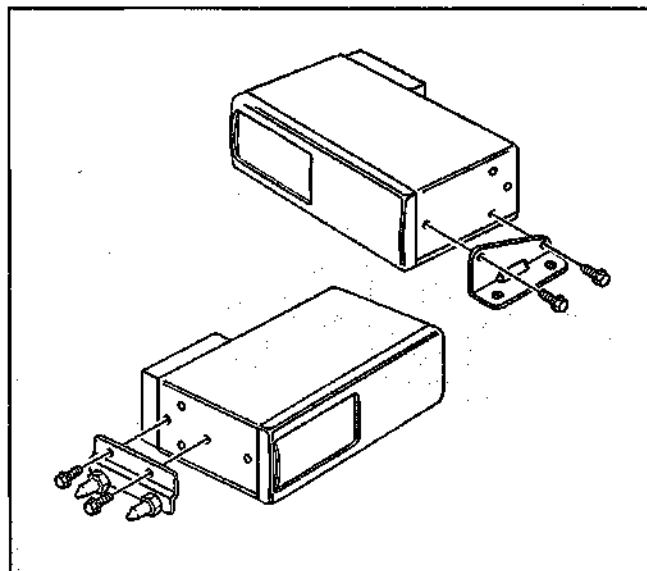
Installation Procedure

Notice: Refer to *Fastener Notice* in Cautions and Notices.

1. Install the brackets and the bolts to the CD changer, as needed.

Tighten

Tighten the CD changer bracket bolts to 1.9 N·m (17 lb in).

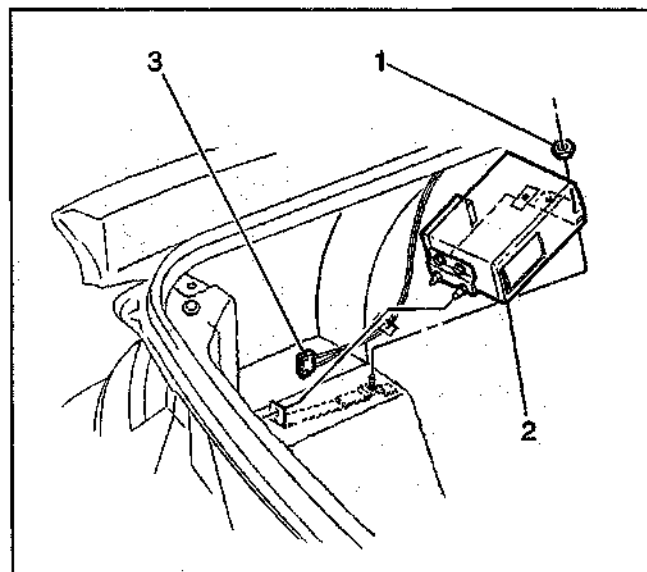


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2. Install the CD changer (2).
3. Connect the CD changer electrical connector (3).
4. Position the outboard stud through the bracket hole.
5. Position the outboard hole over the stud.
6. Install the CD changer mounting nut (1).

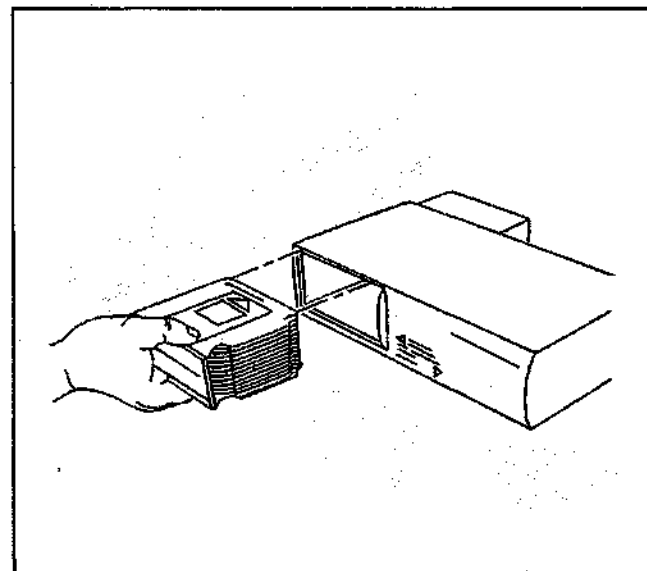
Tighten

Tighten the CD changer mounting nut (1) to 2.5 N·m (22 lb in).

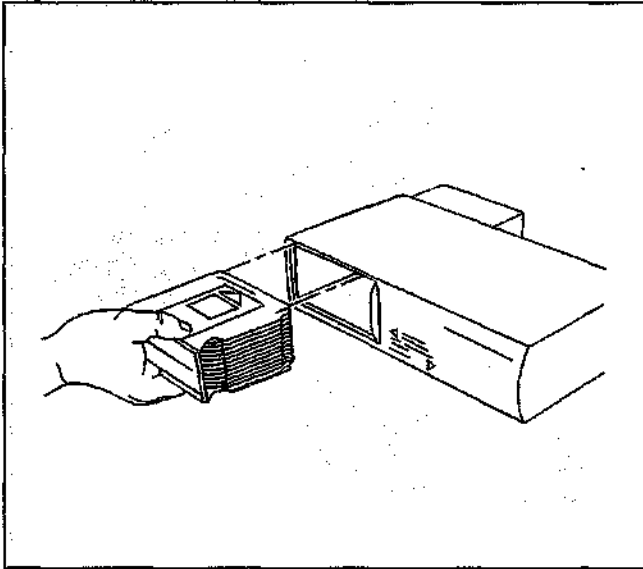


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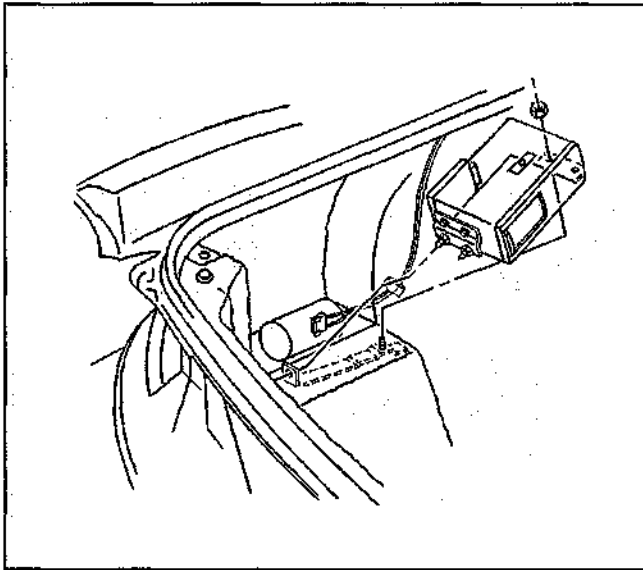
7. Install the CD magazine to the CD changer.
8. Close the rear compartment lift window panel.



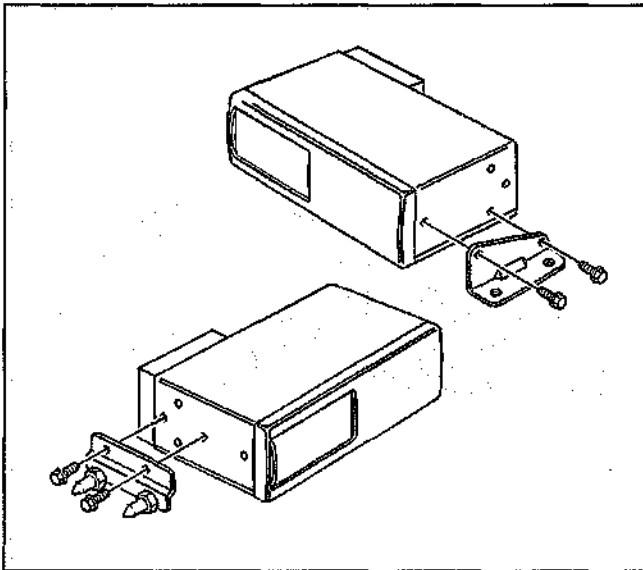
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Remote CD Changer Replacement (Convertible)

Removal Procedure

1. Open the trunk.
2. Remove the compact disc (CD) magazine from the CD player.

3. Remove the CD changer mounting nut.
4. Disconnect the CD changer electrical connector.
5. Remove the CD changer.

6. Remove the bolts and brackets from the CD changer, as needed.
7. If you will transport or ship the CD changer, reinstall the shipper pin. Insert the pin into the top of the changer. Use tape in order to fix the pin in place.
8. If you install a new CD changer, remove the shipper pin. Cover the hole with the supplied adhesive material.

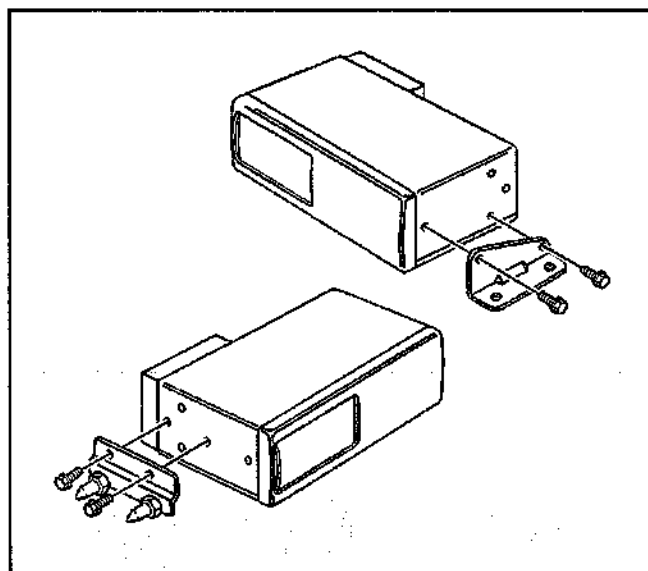
Installation Procedure

Notice: Refer to *Fastener Notice* in Cautions and Notices.

1. Install the brackets and the bolts to the CD changer, as needed.

Tighten

Tighten the CD changer bracket bolts to 1.9 N-m (17 lb in).

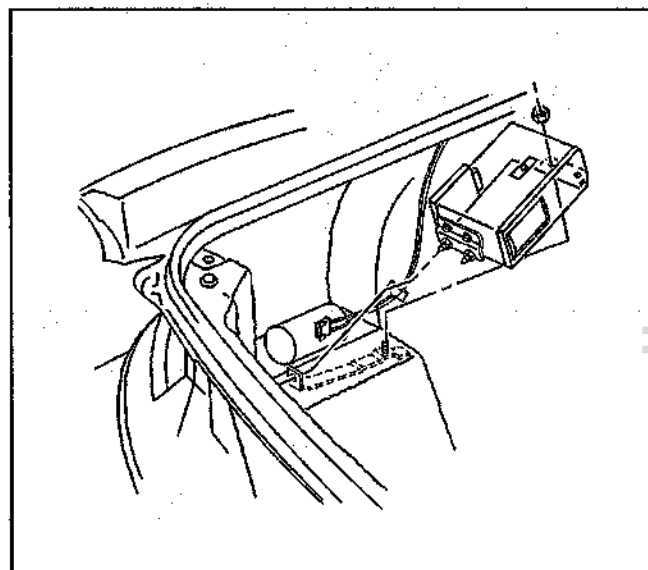


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2. Install the CD changer.
3. Connect the CD changer electrical connector.
4. Position the inboard stud through the bracket hole.
5. Position the inboard hole over the stud.
6. Install the CD changer mounting nut.

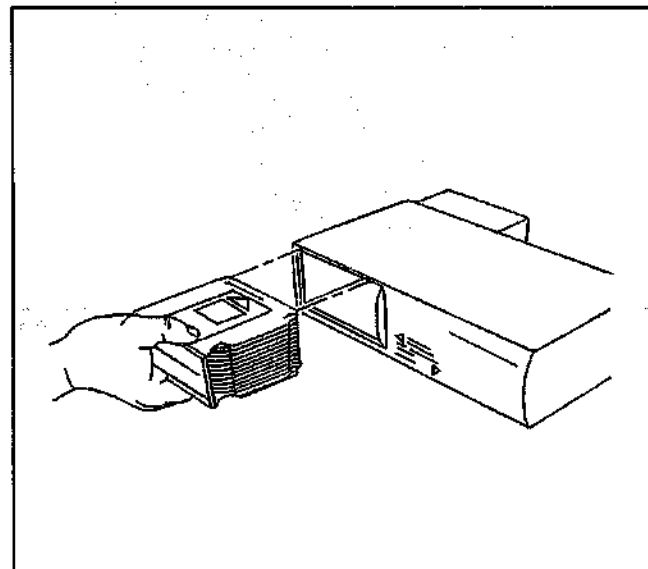
Tighten

Tighten the CD changer mounting nut to 2.5 N-m (22 lb in).



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7. Install the CD magazine to the CD changer.
8. Close the trunk.



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Compact Disc Care and Cleaning

Handle the compact discs (CD's) carefully. Store the CD's in a protective case. Keep the CD's away from the sun, heat and dust.

Clean the CDs if the surfaces become soiled:

- Dampen a clean, soft cloth in a mild, neutral detergent solution.
- Wipe the CD clean.

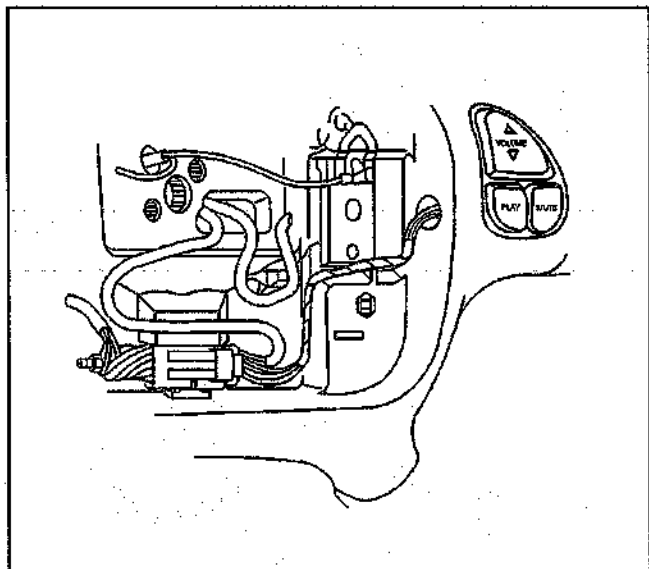
Mini discs, or singles, measure 8 cm. Singles will not eject from the CD player and should not be used.

Steering Wheel Control Switches Replacement

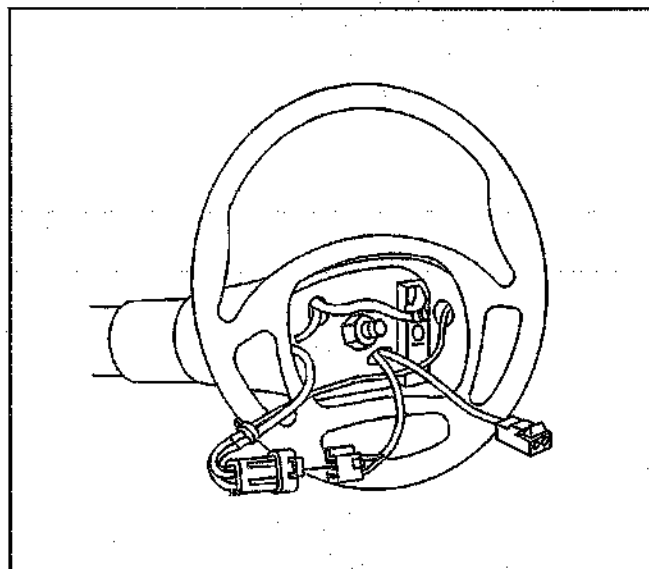
Removal Procedure

1. Remove the inflatable restraint steering wheel module. Refer to *Inflatable Restraint Steering Wheel Module Replacement* in SIR.
2. Remove the redundant radio control connector from the steering wheel retainer.

3. Disconnect the redundant radio control electrical connector.



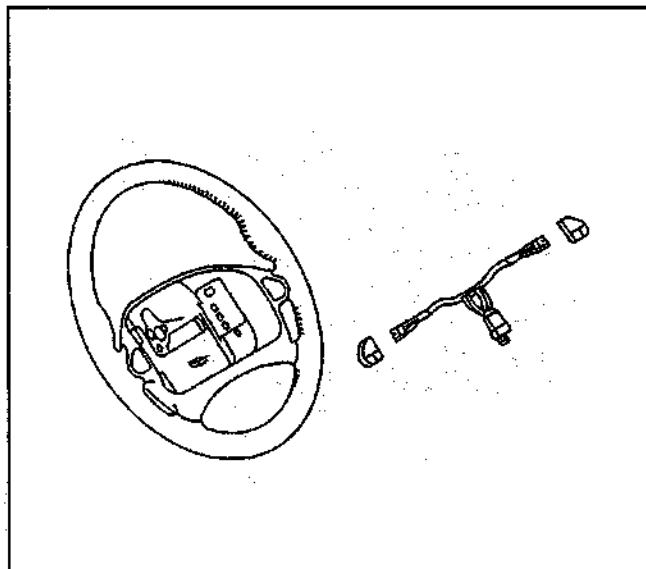
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4. Pry out the radio control switch at the lower edge.
5. Remove the radio control switch from the steering wheel.

Remove the wire harness connector from the controls.

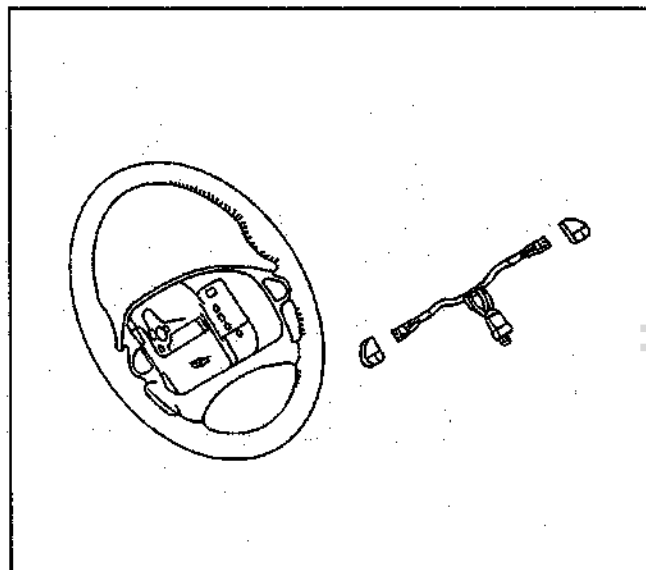


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Installation Procedure

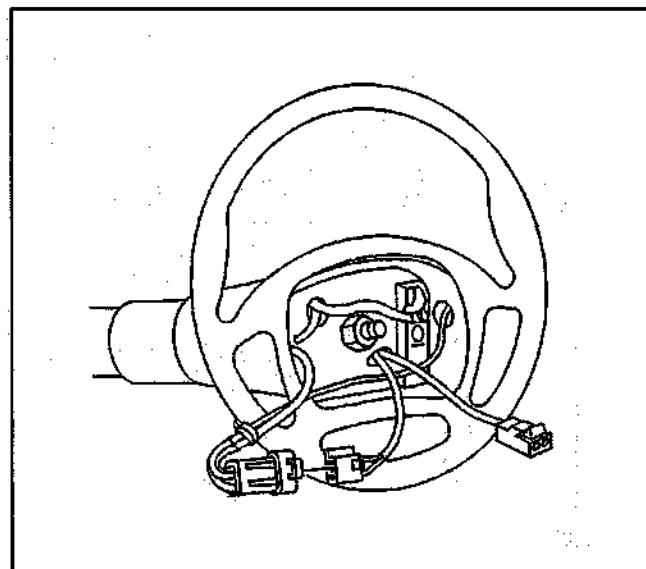
1. Install the wire harness connector to the controls.
2. Install the radio control switch to the steering wheel.

Press in the radio control switch in at the lower edge.

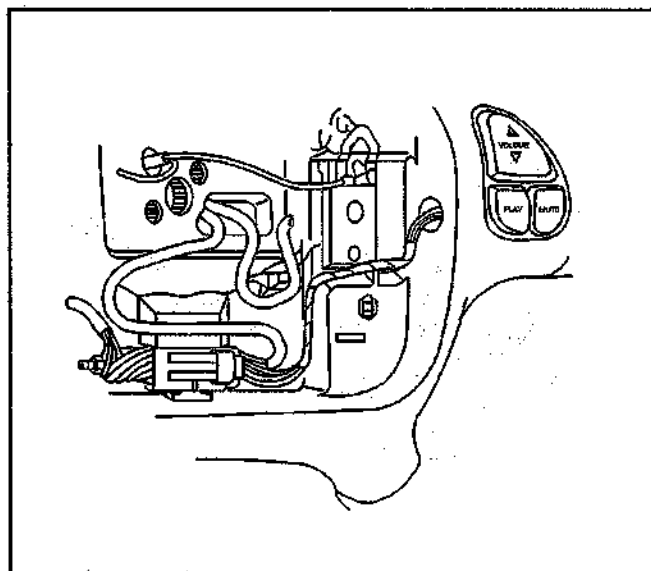


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3. Connect the redundant radio control electrical connector.

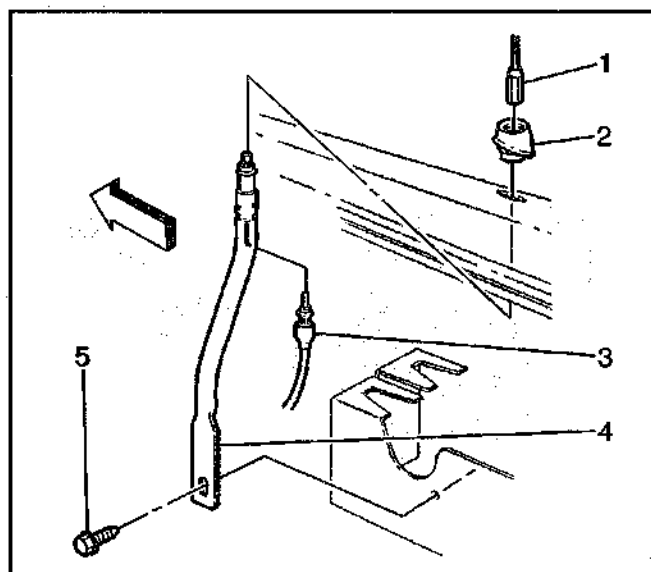


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4. Install the redundant radio control connector to the steering wheel retainer.
5. Install the inflatable restraint steering wheel module. Refer to *Inflatable Restraint Steering Wheel Module Replacement* in SIR.

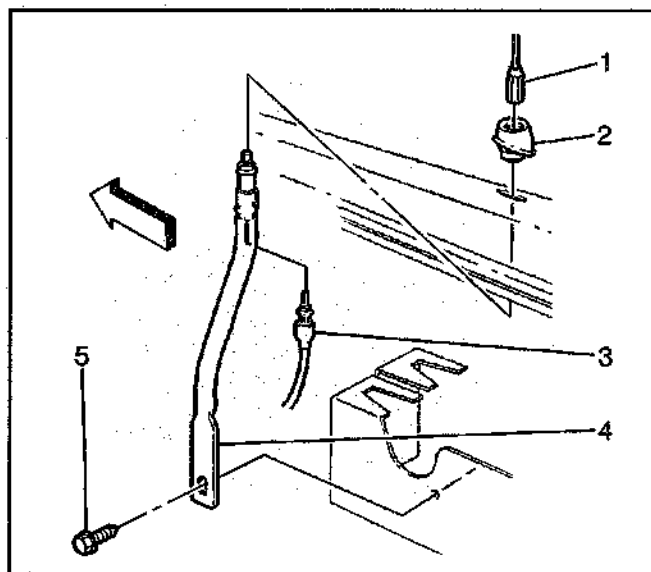


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Fixed Antenna Mast Replacement

Removal Procedure

1. Unscrew the antenna mast (1) from the antenna bracket (2).
2. Remove the antenna from the vehicle.



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Installation Procedure

1. Install the antenna to the vehicle.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

2. Install the antenna mast (1) to the antenna bracket (4).

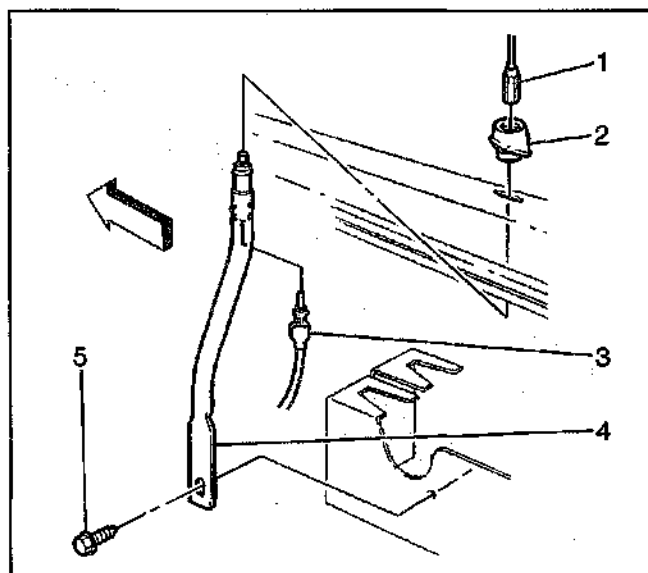
Tighten

Tighten the antenna mast (1) to 5 N·m (44 lb in).

Fixed Antenna Replacement

Removal Procedure

1. Remove the mast antenna. Refer to *Fixed Antenna Mast Replacement*.
2. Remove the quarter inner rear trim finishing panel.
3. Remove the spare tire and the jack.
4. Remove the antenna cable (3) from the antenna bracket (4).
5. Remove the antenna bracket bolt (5).
6. Pull down the antenna bracket (4) from the antenna bezel (2). Disengage the bracket.
7. Remove the antenna bracket (4).
8. Unsnap the bezel (2) from the rear quarter panel.
9. Remove the antenna bezel (2).



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Installation Procedure

1. Snap the bezel (2) into the rear quarter panel by aligning the bezel.
2. Install the antenna bezel (2).
3. Install the antenna bracket (4).

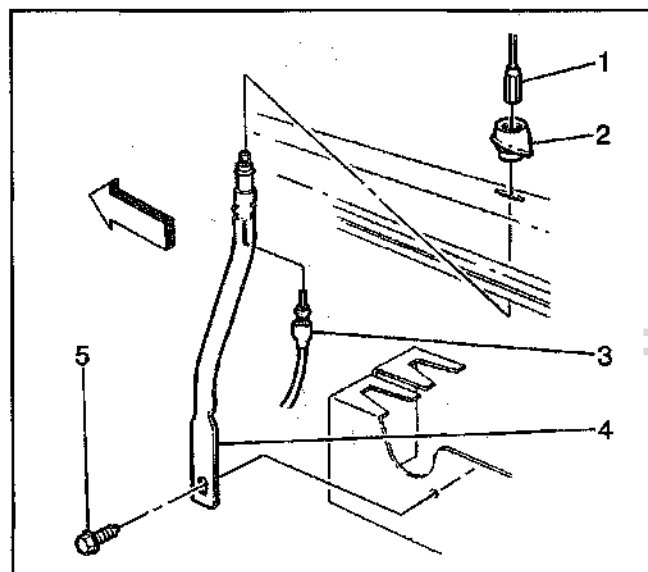
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the antenna bracket bolt (5).

Tighten

Tighten the antenna bracket bolt (5) to 5 N·m (44 lb in).

5. Install the antenna cable (3) to the antenna bracket (4).
6. Install the spare tire and the jack.
7. Install the quarter inner rear trim finishing panel.
8. Install the mast antenna. Refer to *Fixed Antenna Mast Replacement*.



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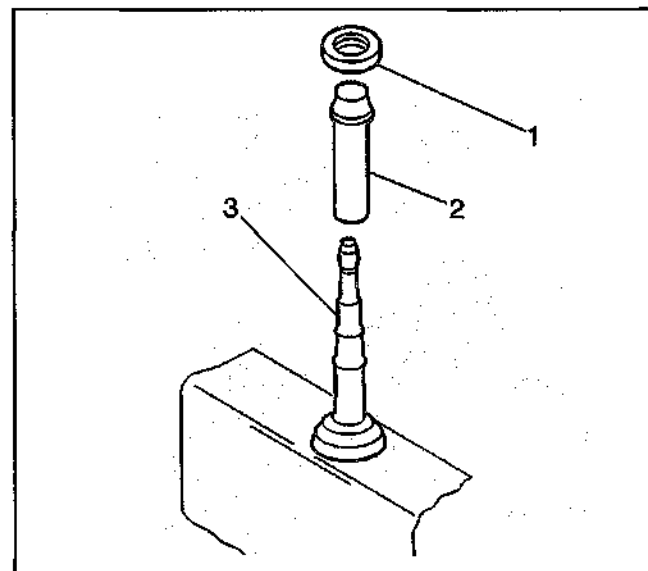
Power Antenna Mast Replacement

Removal Procedure

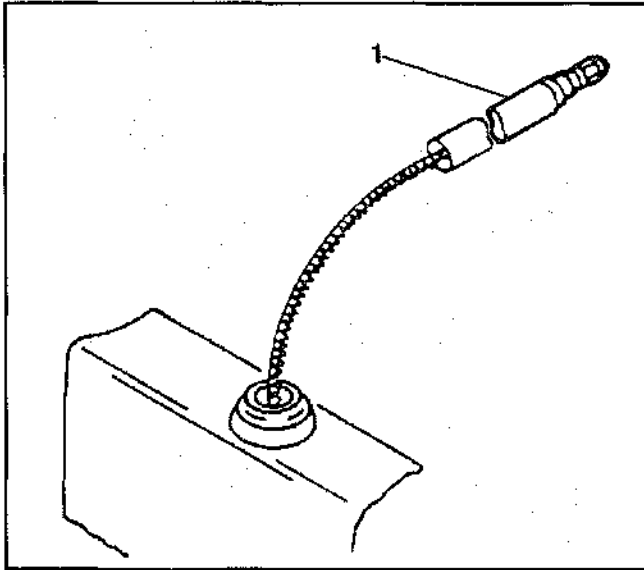
1. Turn the ignition switch to the ON position.
2. Turn the radio ON.

Important: Note the orientation of the serrated side of the plastic cable in order to install the cable correctly.

3. Remove the antenna mast (3) and the contact spring (2).
4. Use contact cleaner in order to clean the contact spring (2).



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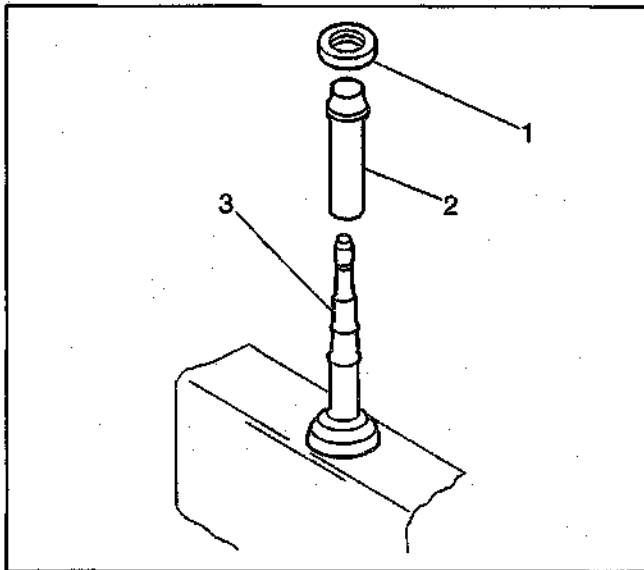
Installation Procedure

1. Insert the plastic cable into the housing. You will feel resistance after inserting about 30 cm (12 in) of the cable. Stop inserting the cable when you feel resistance.

2. Turn the radio OFF.

Ensure that the plastic cable retracts into the housing and catches onto the gear mechanism of the drum housing.

If the cable does not retract into the housing, rotate the cable until the cable rotates into the housing with the motor operating.



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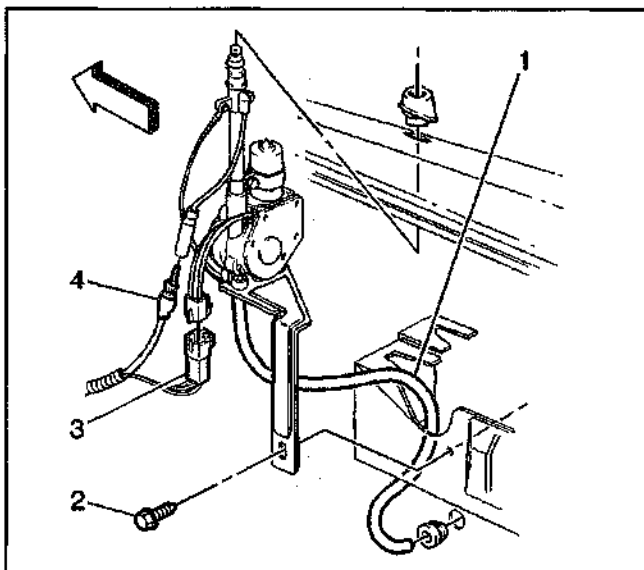
3. Install the contact spring onto the antenna mast (3).

Ensure that the flanged end of the contact spring (2) faces upward.

4. Inspect the antenna operation by turning the radio On and OFF several times.

The antenna mast may only extend or retract halfway.

5. Continue to operate the antenna until the antenna mast (3) fully extends and retracts.



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Power Antenna Motor Replacement**Removal Procedure**

1. Remove the quarter inner rear trim finishing panel.
2. Remove the spare tire and jack.
3. Disconnect the antenna cable (4) from the power antenna.
4. Disconnect the power antenna electrical connector (3).
5. Remove the drain tube (1) from the grommet in the rear quarter panel.
6. Remove the antenna bracket bolt (2).
7. Pull down the bracket. Disengage the power antenna from the antenna bezel.
8. Remove the power antenna.
9. Unsnap the bezel from the rear quarter panel.
10. Remove the antenna bezel.

Installation Procedure

1. Snap the bezel into the rear quarter panel in order to install the antenna bezel.
2. Install the power antenna.

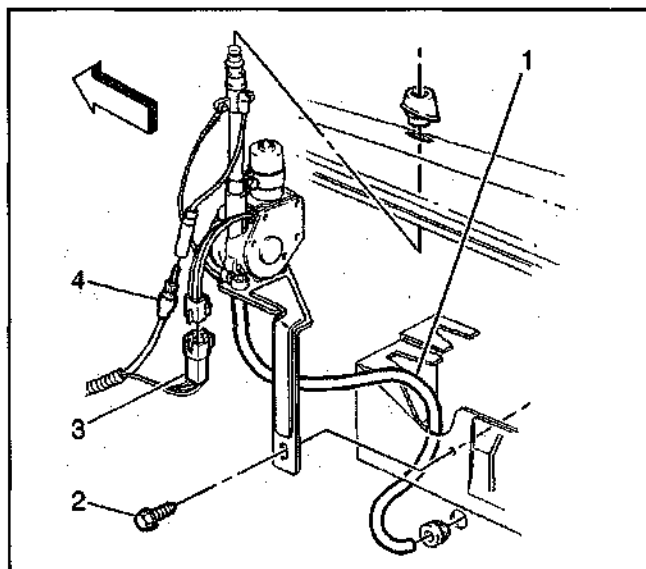
Notice: Refer to *Fastener Notice* in Cautions and Notices.

3. Install the antenna bracket bolt (2).

Tighten

Tighten the antenna bracket bolt to 5 N·m (44 lb in).

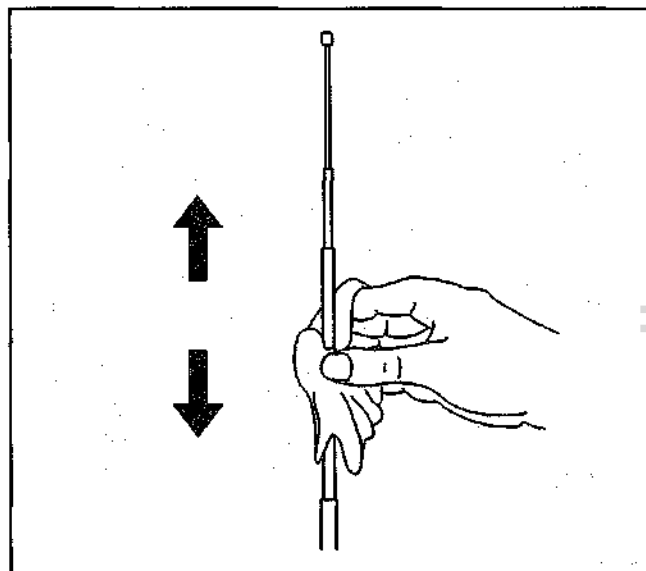
4. Install the drain tube (1) to the grommet in the rear quarter panel.
5. Connect the power antenna electrical connector (3).
6. Connect the antenna cable (4) to the power antenna.
7. Install the jack and the spare tire.
8. Install the quarter inner rear trim finishing panel.



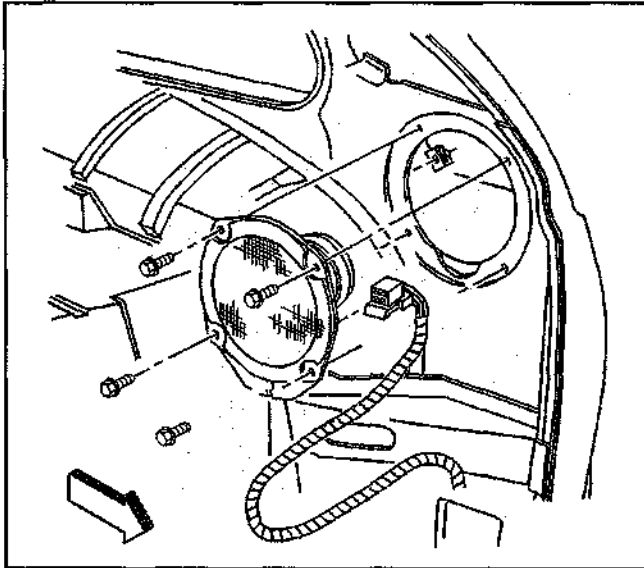
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Antenna Mast Cleaning

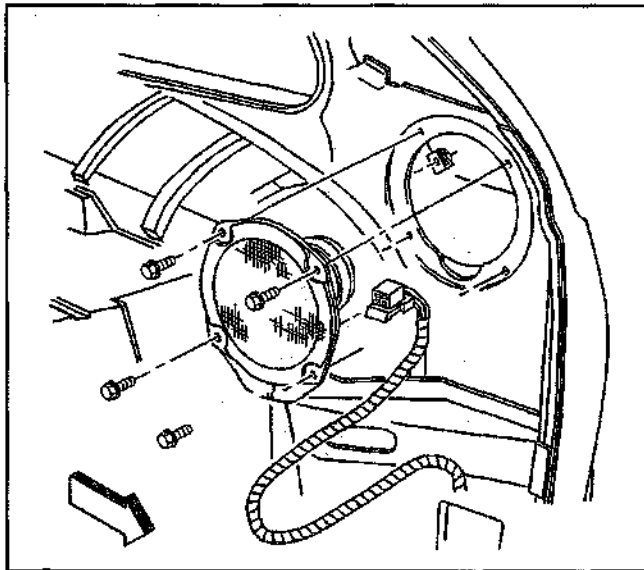
1. Fully extend the antenna.
2. Dampen a clean cloth with mineral spirits.
3. Wipe the cloth over the antenna. Remove any dirt.
4. Retract and extend the antenna through one complete cycle.
5. Repeat Steps 1 through 4 two more times.



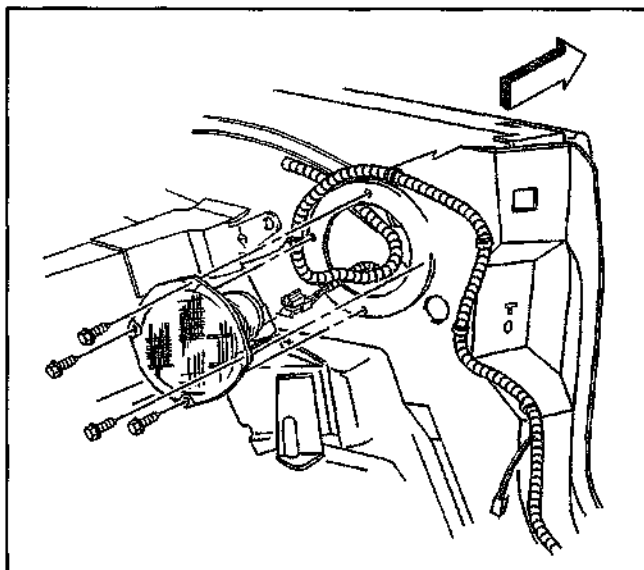
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Speaker Replacement (Coupe)

Removal Procedure

1. Remove the quarter trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Front (Coupe)* in Interior Trim.
2. Remove the speaker bolts.
3. Gently pull the speaker forward to access the electrical connector.
4. Disconnect the speaker electrical connector.
5. Remove the speaker from the vehicle.

Installation Procedure

1. Install the speaker to the vehicle.
2. Connect the speaker electrical connector.
3. Align speaker to quarter inner panel.

Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the speaker bolts.

Tighten

Tighten the speaker bolts to 2 N·m (18 lb in).

5. Install the quarter trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Front (Coupe)* in Interior Trim.

Speaker Replacement (Convertible)

Removal Procedure

1. Remove the quarter trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Front (Convertible)* in Interior Trim.
2. Remove the speaker bolts.
3. Gently pull the speaker forward to access the electrical connector.
4. Disconnect the speaker electrical connector.
5. Remove the speaker from the vehicle.

Installation Procedure

1. Install the speaker to the vehicle.
2. Connect the speaker electrical connector.
3. Position speaker to quarter panel.

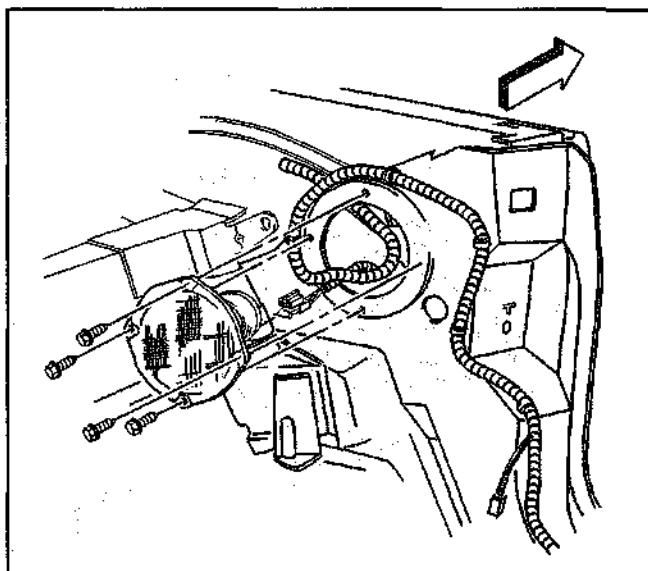
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the speaker bolts.

Tighten

Tighten the speaker bolts to 2 N·m (18 lb in).

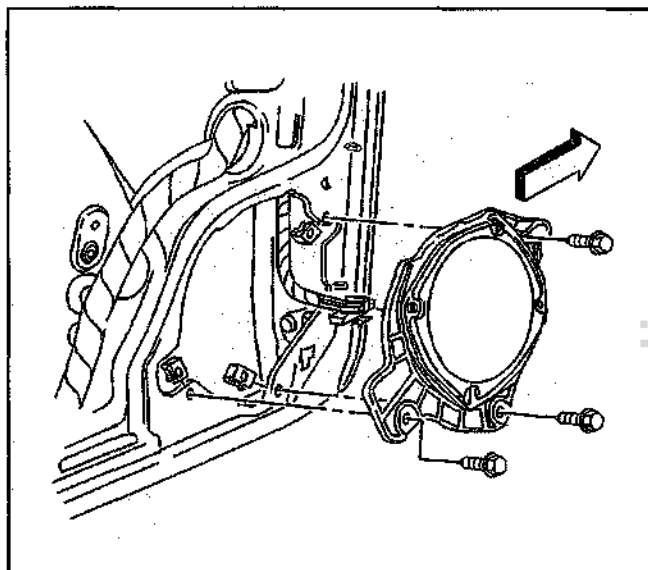
5. Install the quarter trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Front (Convertible)* in Interior Trim.



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Speaker Replacement - Front**Removal Procedure**

1. Remove the front side door trim. Refer to *Trim Panel Replacement - Door* in Doors.
2. Pull the corner of water deflector back as needed.
3. Remove the door speaker bolts.
4. Gently pull the door speaker forward to access the electrical connector.
5. Disconnect the door speaker electrical connector.
6. Remove the door speaker from the vehicle.



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Installation Procedure

1. Install the door speaker to the vehicle.
2. Connect the door speaker electrical connector.
3. Align speaker to door.

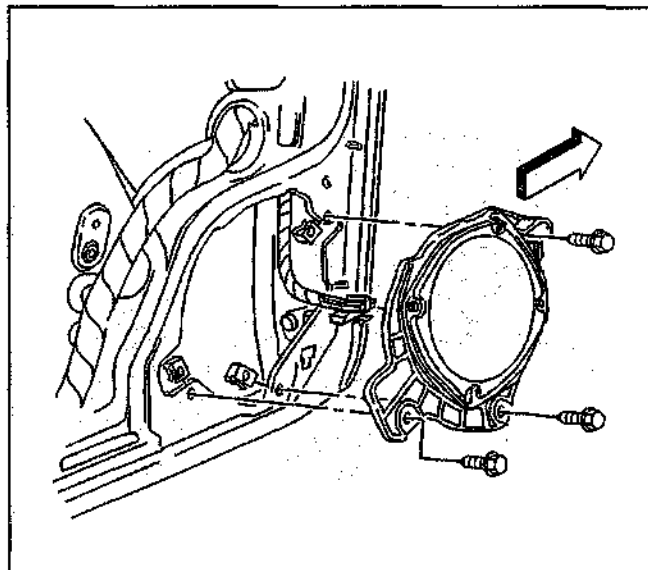
Notice: Refer to *Fastener Notice* in Cautions and Notices.

4. Install the door speaker bolts using the sequence on the speaker housing.

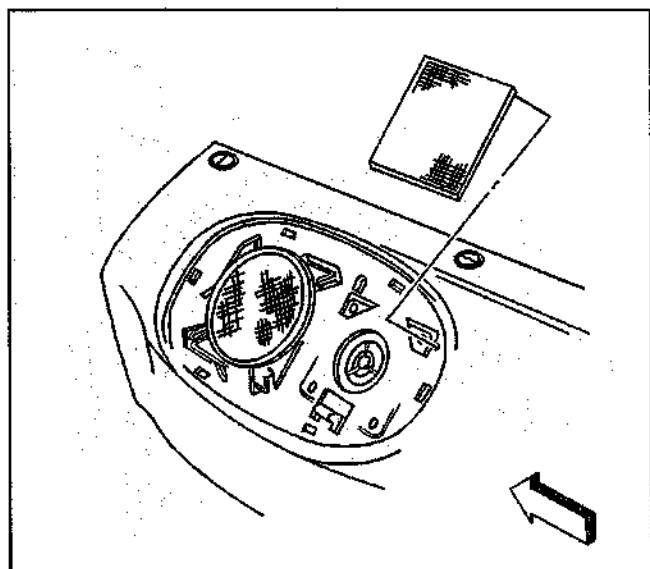
Tighten

Tighten the door speaker bolts to 2.5 N·m (22 lb in).

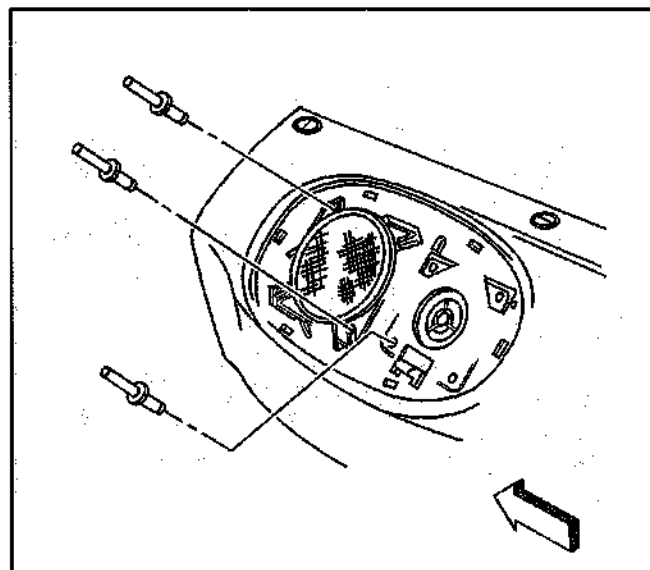
5. Press the water deflector back into place.
6. Install the front side door trim. Refer to *Trim Panel Replacement - Door* in Doors.



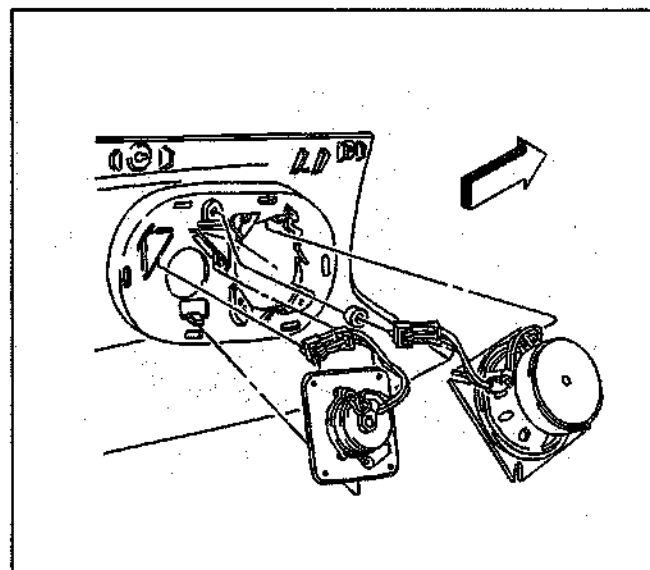
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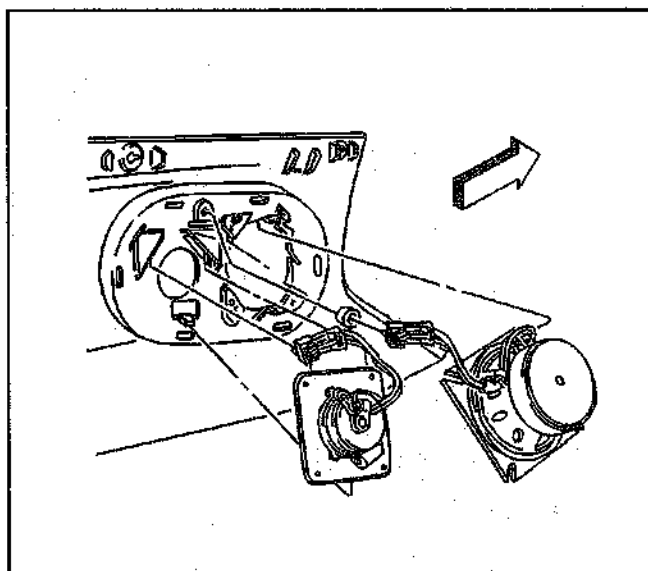
Speaker Replacement - Rear

Removal Procedure

1. Remove the quarter rear trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Side (Coupe)* in Interior Trim.
2. Remove the speaker grille.
3. Remove the rear quarter speaker insulator; if replacing the tweeter.
4. Drill out the 2 rear speaker rivets, if replacing the mid range speaker.
5. Drill out the single rear speaker rivet, if replacing the tweeter.
6. Unclip the electrical connector from the trim panel, if necessary.
7. If removing the mid-range speaker, perform the following steps:
 - Rotate the mid-range speaker counterclockwise.
 - Remove the speaker from the trim panel.
8. If removing the tweeter, perform the following steps:
 - Push the retaining tab down.
 - Unsnap the tweeter from the trim panel.

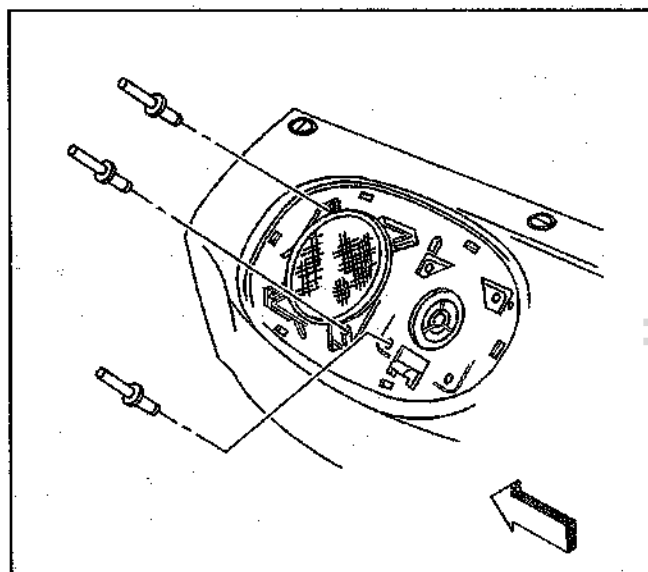
Installation Procedure

1. If installing the tweeter, perform the following steps:
 - Place the top of the tweeter flange under the tabs in the trim panel.
 - Push the bottom of the tweeter against the panel until secured by retaining tab.
2. If installing the mid-range speaker, perform the following steps:
 - Align the mid-range speaker to the trim panel.
 - Twist the mid-range speaker clockwise until seated in trim panel.



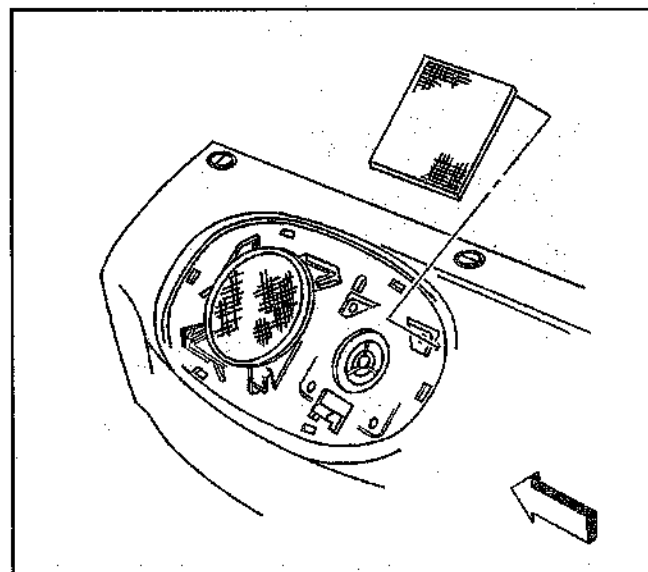
535687

3. If installing the tweeter, install a single rivet.
4. If installing the mid-range speaker, install the 2 rivets.

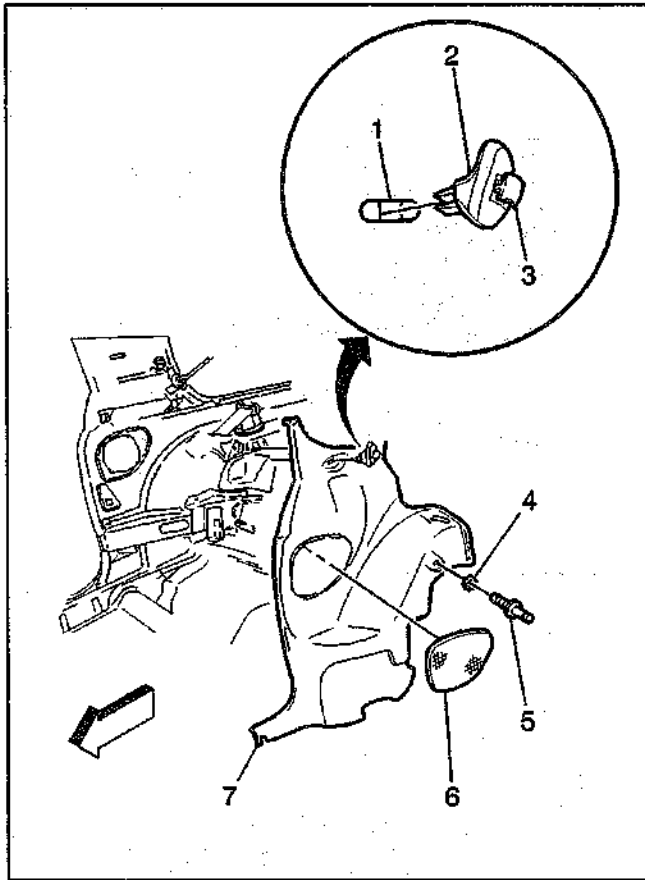


362247

5. Install the rear quarter speaker insulator, if replacing the tweeter.
6. Install the speaker grille.
7. Install the quarter rear trim finish panel. Refer to *Trim Panel Replacement - Cargo Area Side (Coupe)* in Interior Trim.



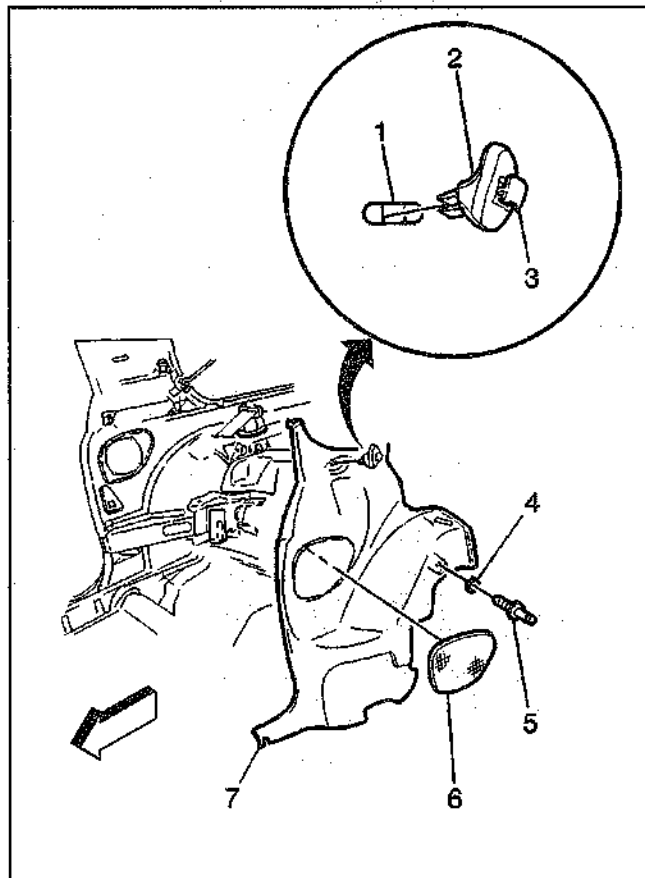
362246



296709

Speaker Grille Replacement - Rear (Coupe)**Removal Procedure**

1. Squeeze the outer edges of the speaker grille (6).
2. Pull out and remove the speaker grille (6).



296709

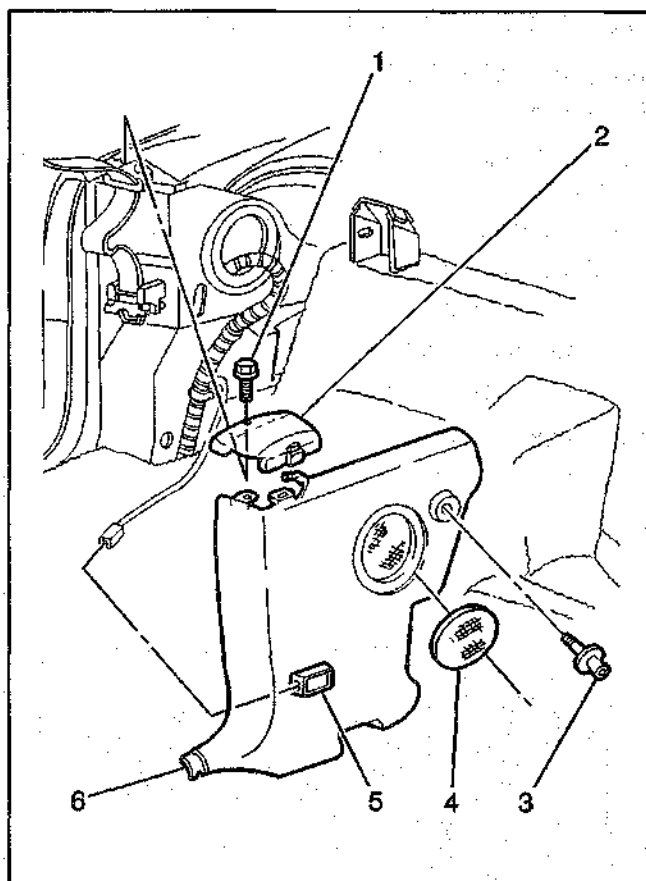
Installation Procedure

1. Squeeze the outer edges of the speaker grille (6).
2. Place the speaker grille (6) into position and release the pressure.

Speaker Grille Replacement - Rear (Convertible)

Removal Procedure

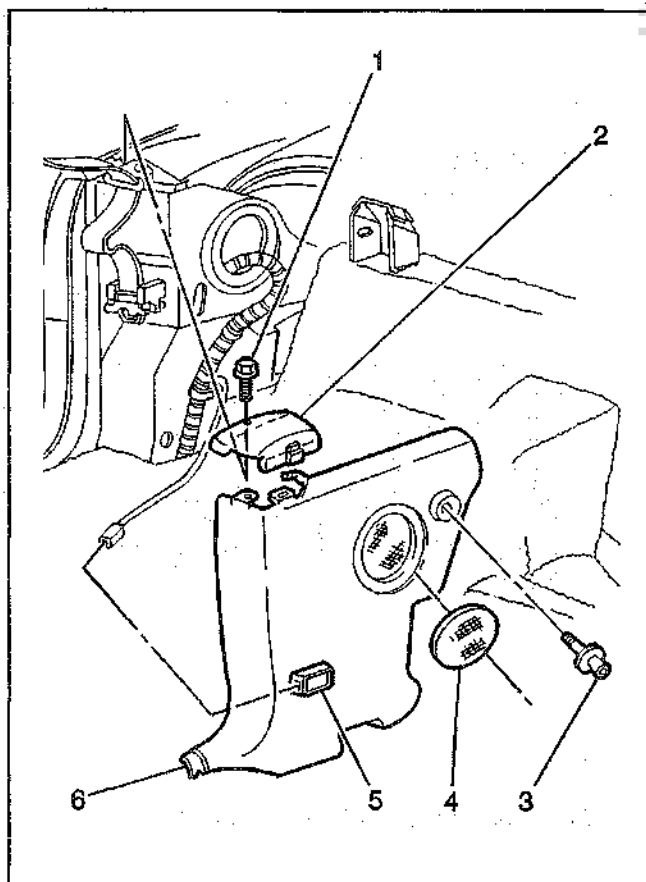
1. Remove the trim finishing panel (6).
2. Use a soldering iron in order to melt the heat stakes that attach the speaker grille (4).
3. Remove the speaker grille (4) from the trim finishing panel (6).



296710

Installation Procedure

1. Install the speaker grille (4) to the trim finishing panel (6).
2. Insert the heat stakes through the holes in the trim finishing panel (6).
3. Use a soldering iron in order to melt the heat stakes.
4. Press the melted heat stakes flat using a suitable surface.
5. Install the trim finishing panel (6).



296710

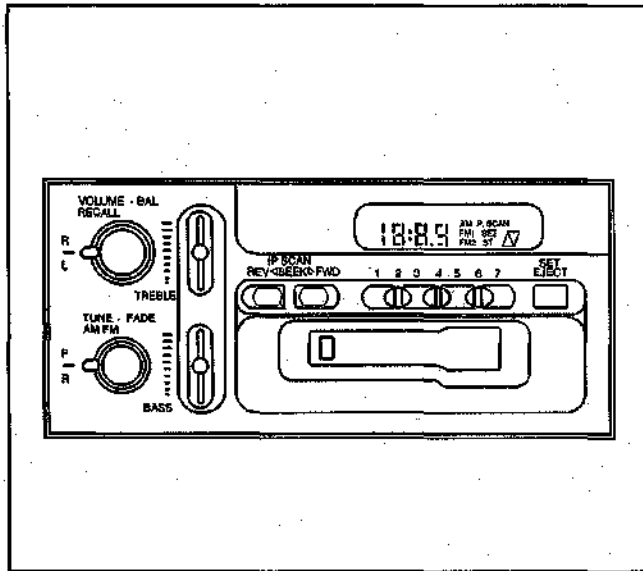
Description and Operation

Radio/Audio System Description (Chevrolet)

Chevrolet radios include the following components and features:

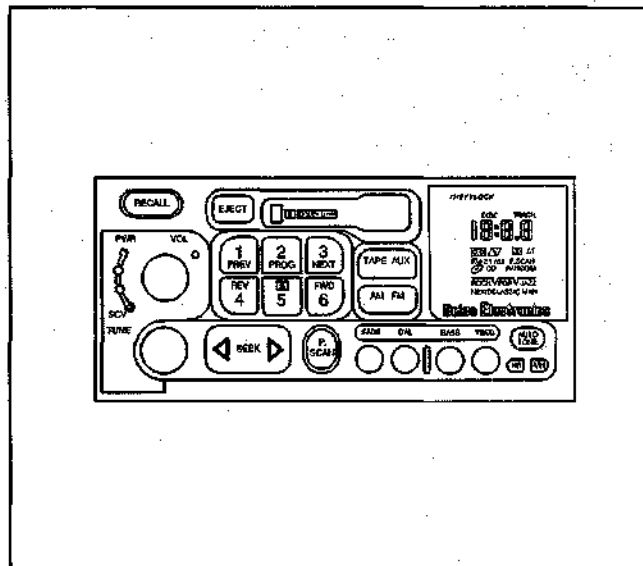
- An electronically tuned receiver (ETR)
- A vacuum fluorescent display
- An AM/FM stereo
- Seek and scan tuning
- A digital clock display

Radio Description



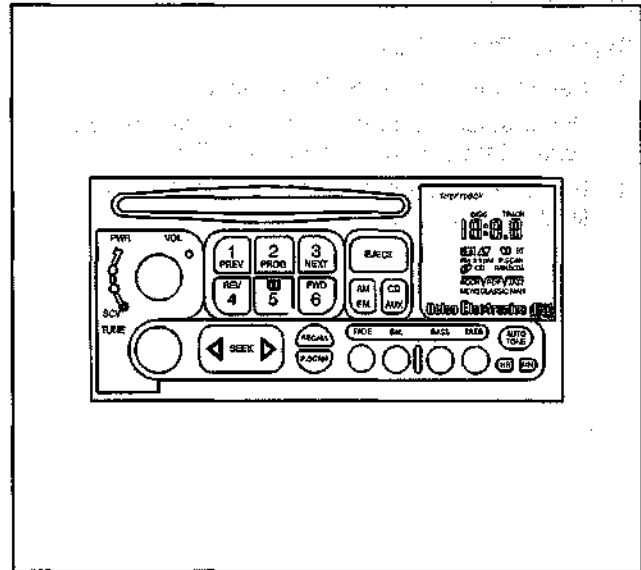
290010

- ETR AM/FM Stereo/Cassette



65126

- ETR AM/FM Stereo/Cassette with Theftlock™



65127

- ETR AM/FM Stereo/Compact Disc with Theftlock™

FM Stereo

The following actions occur when a factory-equipped audio system with an FM stereo radio receives an FM stereo broadcast:

- The radio switches to stereo operation.
- An indicator on the radio illuminates.

Stereo operation means that the radio is separating the stereo broadcast back into the two original channels. The two channels are the LEFT channel and the RIGHT channel. Stereo sound is more realistic than non-stereo sound.

FM is normally static-free, but any of the following factors may limit reception:

- Terrain
- Atmospheric conditions
- Station strength
- Distance from the transmitter

Buildings or other obstructions may cause the following conditions:

- Momentary static
- Flutter
- Station swapping

If reception is poor, turning to a different station that is stronger will bring improvement.

AMAX Stereo Certification

All optional radios are AMAX certified. AMAX certified receivers can reproduce the fidelity sound that is transmitted by all AM stations but not received on all AM radios.

AMAX certification includes some of the following improvements:

- High fidelity
- Adjustable receiver bandwidth:
 - Wide bandwidth for high fidelity
 - Narrow bandwidth for cutting out interference
- Noise cancellation
- Full stereo sound
- Reception of more frequencies
- External antenna capability

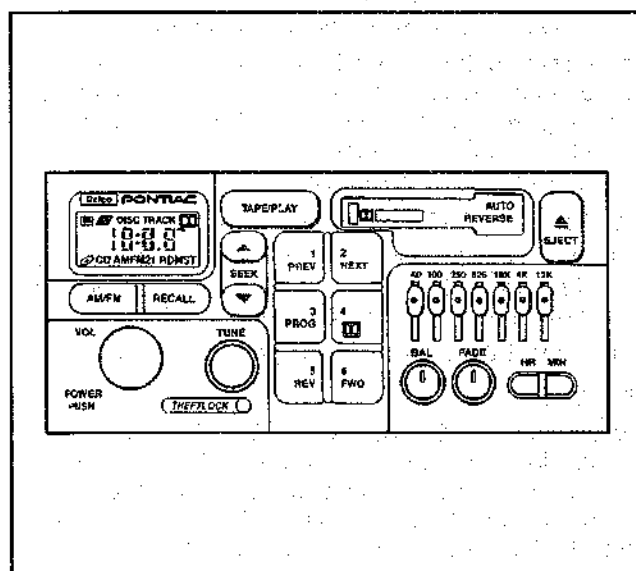
The range of most AM stations is greater than FM, especially at night. The longer range can cause stations to interfere with each other. AM is also subject to noise pickup from storms or power lines. AMAX certification reduces many of these types of conditions.

Radio/Audio System Description (Pontiac)

Pontiac radios include the following components and features:

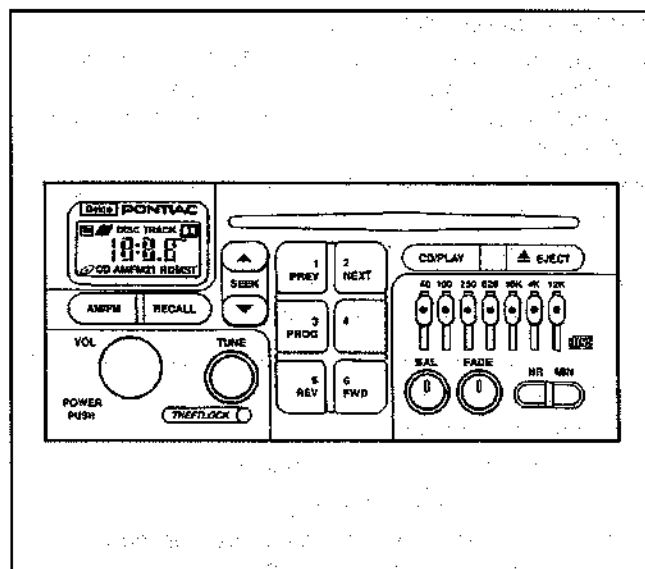
- An electronically tuned receiver (ETR)
- A vacuum fluorescent display
- An AM/FM stereo
- The seek and scan tuning
- A digital clock display

Radio Description



290019

- ETR AM/FM Stereo/Cassette with Graphic Equalizer and Theftlock™



290017

- ETR AM/FM Stereo/Compact Disc with Graphic Equalizer and Theftlock™

FM Stereo

The following actions occur when a factory-equipped audio system with an FM stereo radio receives an FM stereo broadcast:

- The radio switches to stereo operation.
- An indicator on the radio illuminates.

Stereo operation means that the radio is separating stereo broadcast back into the two original channels. The two channels are the LEFT channel and the RIGHT channel. Stereo sound is more realistic than non-stereo sound.

FM is normally static-free, but any of the following factors may limit reception:

- Terrain
- Atmospheric conditions
- Station strength
- Distance from the transmitter

Buildings or other obstructions may cause the following conditions:

- Momentary static
- Flutter
- Station swapping

If reception is poor, turning to a different station that is stronger will bring improvement.

AMAX Stereo Certification

All optional radios are AMAX certified. AMAX certified receivers can reproduce the fidelity sound that is transmitted by all AM stations but not received on all AM radios.

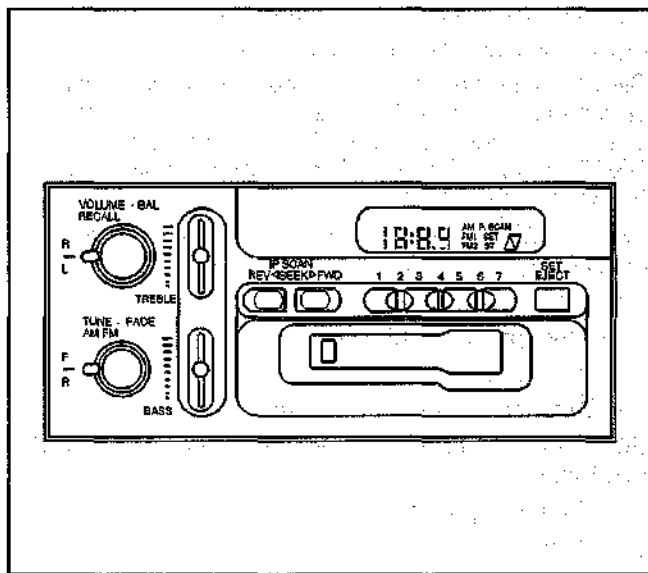
AMAX certification includes some of the following improvements:

- High fidelity
- Adjustable receiver bandwidth:
 - Wide bandwidth for high fidelity
 - Narrow bandwidth for cutting out interference
- Noise cancellation
- Full stereo sound
- Reception of more frequencies
- External antenna capability

The range of most AM stations is greater than FM, especially at night. The longer range can cause stations to interfere with each other. AM is also subject to noise pickup from storms or power lines. AMAX certification reduces many of these types of conditions.

Radio/Audio System Operation-Radio Controls (RPO UM6 (Chevrolet))

AM-FM Stereo with Cassette Tape Player



Included with the AM-FM Stereo with Cassette Tape Player are 4 speakers.

Setting the Clock for Systems without Automatic Tone Control

Press SET. SET will appear on the display for five seconds. Within five seconds, press and hold the right arrow on the SEEK button until the correct minute appears. Press and hold the left arrow on the SEEK button until the correct hour appears.

Playing the Radio

VOLUME:

This knob turns the system on and off and controls the volume in order to increase volume and turn the radio on, turn the knob clockwise. Turn it counterclockwise in order to decrease volume and turn the radio off.

RECALL:

Display the time with the ignition off by pressing the RECALL knob. When the radio is playing, press this button to recall the station frequency.

Finding a Station

AM-FM:

Press the lower knob in order to switch between AM, FM1 and FM2. The display shows the selection.

TUNE:

Turn the lower knob in order to choose radio stations.

SEEK:

Press the right or left arrow in order to go to the next higher or lower station and stay there.

PUSH-BUTTONS:

The four numbered push-buttons let you return to favorite stations. There can be up to 21 stations (seven AM, seven FM1 and seven FM2). Perform the following steps:

1. Turn the radio on.
2. Press AM-FM to select the band.
3. Tune in the desired station.
4. Press SET. (SET will appear on the display).
5. Press one of the four numbered buttons; within five seconds. Whenever you press that numbered button, the station you set will return.
6. Repeat the steps for each push-button.

In addition to the four stations already set, up to three more stations may be preset on each band by pressing two adjoining buttons at the same time. Perform the following steps:

1. Tune in the desired station.
2. Press SET. (SET will appear on the display).
3. Press any two adjoining push-button at the same time, within five seconds. Whenever you press the same buttons, the station you set will return.
4. Repeat the steps for each pair of push-button.

P.SCAN:

Press both SEEK arrows and P.SCAN will appear on the display. Use P.SCAN in order to listen to each of your preset stations for a few seconds. The radio will go to the first preset station stored on the push-buttons, stop for a few seconds, then go on to the next preset station. (If a preset station has weak reception, P.SCAN will not stop). Press either SEEK arrow or the upper knob in order to stop scanning.

Setting the Tone**BASS:**

Slide the lever up or down in order to increase or decrease bass.

TREB:

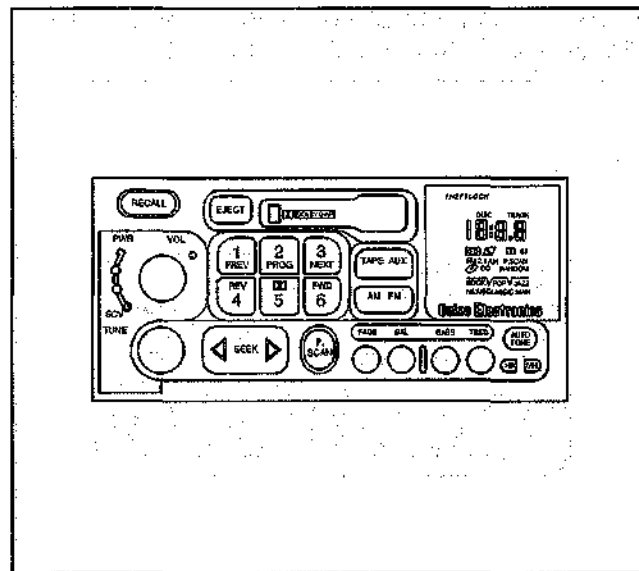
Slide the lever up or down in order to increase or decrease treble. If a station is weak or noisy, you may want to decrease the treble.

Adjusting the Speakers**BAL:**

Turn the control behind the upper knob in order to move the sound to the left or right speakers. The middle position balances the sound between the speakers.

FADE:

Turn the control behind the lower knob in order to move the sound to the front or rear speakers. The middle position balances the sound between the speakers.

Radio/Audio System Operation-Radio Controls (RPO ULO (Chevrolet))**Monsoon® AM-FM Stereo with Cassette Tape Player and Automatic Tone Control**

65126

Included with the Monsoon® AM-FM Stereo with Cassette Tape Player and Automatic Tone Control are 8 speakers and an 8 channel amplifier.

Setting the Clock for Systems with Automatic Tone Control

Press and hold HR until the correct hour appears.
Press and hold MN until the correct minute appears.

Playing the Radio**PWR-VOL:**

Press this knob in order to turn the system on and off. To increase volume, turn the knob clockwise. Turn the knob counterclockwise to decrease volume. The knob is capable of rotating continuously.

RECALL:

Press this button in order to recall the station being played. If you press the button when the ignition is off, the clock will show for a few seconds.

SCV:

The system has a feature called Speed-Compensated Volume (SCV). With SCV, the audio system adjusts automatically to make up for road and wind noise as the car is driven. Set the volume at the desired level. Turn the control ring behind the upper knob clockwise to adjust the SCV. Then, as the car is driven, SCV automatically increases the volume, as necessary, to overcome noise at any particular speed. The volume level should always sound the same as the vehicle is driven. If SCV is not wanted, turn the control all the way down. Each notch on the control ring allows for more volume compensation at faster vehicle speeds.

Finding a Station**AM-FM:**

Press this button to switch between AM, FM1 and FM2. The display shows your selection.

TUNE:

Press this knob lightly so the knob extends. Turn the knob to choose radio stations. Push the knob back into the stored position when not in use.

SEEK:

Press the right or left arrow in order to go to the next higher or lower station. The sound will mute while seeking.

SCAN:

Press one of the SEEK arrows for two seconds, and SCAN will appear in the display. Use SCAN to listen to stations for a few seconds. The radio will go to a station, stop for a few seconds, then go on to the next station. Press SEEK again to stop scanning. The sound will mute while scanning.

PUSH-BUTTONS:

The six numbered push-buttons let you return to the favorite stations. There can be up to 18 stations (six AM, six FM1 and six FM2). Perform the following steps:

1. Turn the radio on.
2. Press AM-FM to select the band.
3. Tune in the desired station.
4. Press AUTO TONE to select the equalization that best suits the type of station selected.
5. Press and hold one of the six numbered buttons. The sound will mute. When it returns, release the button. Whenever you press that numbered button, the station you set will return and the AUTO TONE equalization that you selected will also be automatically selected for that button.
6. Repeat the steps for each push-button.

P.SCAN:

Press this button to listen to each of the favorite stations stored on the push-buttons for a few seconds. The radio will scan through each of the stations stored on the radio push-buttons, except those stations with weak reception. The AUTO TONE setting stored for that push-buttons will be automatically chosen. Press P.SCAN or one of the push-buttons again to stop scanning. P.SCAN will be displayed whenever the tuner is in the P.SCAN mode. The channel number (P1-P6) will appear momentarily just before the frequency is displayed. In FM mode, this function will scan through both FM1 and FM2 preset stations and FM1 or FM2 will appear on the display.

Setting the Tone**BASS:**

Press this knob lightly so the knob extends. Turn the knob clockwise in order to increase bass and counterclockwise in order to decrease bass. When this control is used, the radio's AUTO TONE setting will switch to manual and the AUTO TONE display will go blank.

TREB:

Press this knob so the knob extends. Turn the knob clockwise in order to increase treble and counterclockwise in order to decrease treble. When this control is used, the radio's AUTO TONE setting will switch to manual and the AUTO TONE display will go blank. If a station is weak or noisy, decrease the treble.

Push these knobs back into their stored positions when not using them.

AUTO TONE:

This feature allows preset bass and treble equalization settings designed for country/western, classical, news, rock, pop and jazz stations to be preset. C/W will appear on the display when you first press

AUTO TONE. Each time AUTO TONE is pressed another setting will appear on the display. Press AUTO TONE again after JAZZ appears and the AUTO TONE display will go blank. Tone control will return to the BASS and TREB knobs. Also, if the BASS and TREB knobs are used, control will return to them and the AUTO TONE display will go blank. Use the push-buttons and the AUTO TONE button to program the AUTO TONE for station presets.

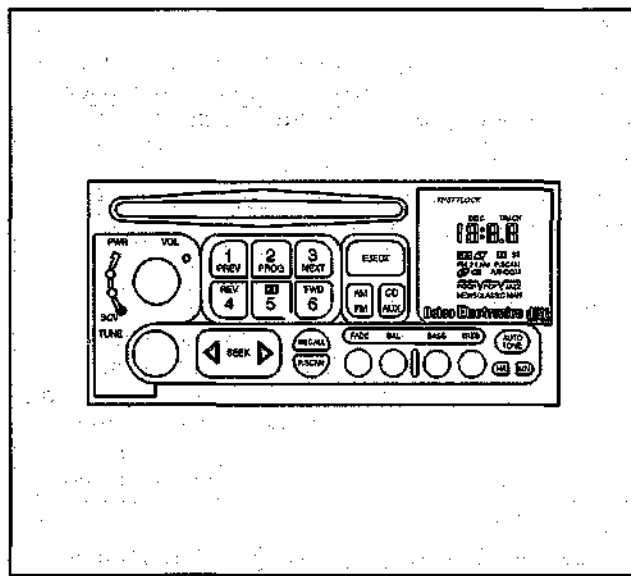
Adjusting the Speakers**BAL:**

Press this knob lightly so the knob extends. Turn the knob clockwise for the right speakers and counterclockwise for the left speakers. The middle position balances the sound between the speakers.

FADE:

Press this knob lightly so the knob extends. Turn the knob clockwise in order to adjust the sound to the front speakers and counterclockwise in order to adjust the sound for the rear speakers. The middle position balances the sound between the speakers.

Push these knobs back into their stored positions when not using them.

Radio/Audio System Operation-Radio Controls (RPO UNO (Chevrolet))**Monsoon® AM-FM Stereo with Compact Disc Player and Automatic Tone Control**

65127

Included with the Monsoon® AM-FM Stereo with Compact Disc Player and Automatic Tone Control are 8 speakers and an 8 channel amplifier.

Setting the Clock for Systems with Automatic Tone Control

Press and hold HR until the correct hour appears. Press and hold MN until the correct minute appears.

Playing the Radio

PWR-VOL:

Press this knob in order to turn the system on and off. To increase the volume, turn the knob clockwise, turn the knob counterclockwise in order to decrease volume. The knob is capable of rotating continuously.

RECALL:

Press this button to recall the station being played. If the button is pressed when the ignition is off, the clock will show for a few seconds.

SCV:

The system has a feature called Speed-Compensated Volume (SCV). With SCV, the audio system adjusts automatically to make up for road and wind noise as the car is driven. Set the volume at the desired level. Turn the control ring behind the upper knob clockwise to adjust the SCV. Then, as the car is driven, SCV automatically increases the volume, as necessary, to overcome noise at any particular speed. The volume level should always sound the same as the vehicle is driven. If SCV is not wanted, turn the control all the way down. Each notch on the control ring allows for more volume compensation at faster vehicle speeds.

Finding a Station

AM-FM:

Press this button in order to switch between AM, FM1 and FM2. The display shows your selection.

TUNE:

Press this knob lightly so the knob extends. Turn the knob to choose radio stations. Push the knob back into the stored position when not in use.

SEEK:

Press the right or left arrow in order to go to the next higher or lower station. The sound will mute while seeking.

SCAN:

Press one of the SEEK arrows for two seconds, and SCAN will appear on the display. Use SCAN in order to listen to stations for a few seconds. The radio will go to a station, stop for a few seconds, then go on to the next station. Press SEEK again in order to stop scanning. The sound will mute while scanning.

PUSH-BUTTONS:

The six numbered push-buttons let you return to the favorite stations. There can be up to 18 stations (six AM, six FM1 and six FM2). Perform the following steps:

1. Turn the radio on.
2. Press AM-FM to select the band.
3. Tune in the desired station.
4. Press AUTO TONE to select the equalization that best suits the type of station selected.

5. Press and hold one of the six numbered buttons. The sound will mute. When the sound returns, release the button. Whenever you press that numbered button, the station you set will return and the AUTO TONE equalization that you selected will also be automatically selected for that button.

6. Repeat the steps for each push-button.

P.SCAN:

Press this button to listen to each of the favorite stations stored on the push-buttons for a few seconds. The radio will scan through each of the stations stored on the radio push-buttons, except those stations with weak reception. The AUTO TONE setting stored for that push-button will be automatically chosen. Press P.SCAN or one of the push-buttons again to stop scanning. P.SCAN will be displayed whenever the tuner is in the P.SCAN mode. The channel number (P1-P6) will appear momentarily just before the frequency is displayed. In FM mode, this function will scan through both FM1 and FM2 preset stations and FM1 or FM2 will appear on the display.

Setting the Tone

BASS:

Press this knob lightly so the knob extends. Turn the knob clockwise in order to increase bass and counterclockwise in order to decrease bass. When you use this control, the radio's AUTO TONE setting will switch to manual and the AUTO TONE display will go blank.

TREB:

Press this knob lightly so the knob extends. Turn the knob clockwise in order to increase treble and counterclockwise in order to decrease treble. When this control is used, the radio's AUTO TONE setting will switch to manual and the AUTO TONE display will go blank. If a station is weak or noisy, decrease the treble.

Push these knobs back into their stored positions when not using them.

AUTO TONE:

This feature allows preset bass and treble equalization settings designed for country/western, classical, news, rock, pop and jazz stations to be preset. C/W will appear on the display when you first press AUTO TONE. Each time you press AUTO TONE, another setting will appear on the display. Press AUTO TONE again after JAZZ appears and the AUTO TONE display will go blank. Tone control will return to the BASS and TREB knobs. Also, if you use the BASS and TREB knobs, control will return to them and the AUTO TONE display will go blank. Use the push-buttons and the AUTO TONE button to program the AUTO TONE for station presets.

Adjusting the Speakers

BAL:

Press this knob lightly so the knob extends. Turn the knob clockwise for the right speakers and counterclockwise for the left speakers. The middle position balances the sound between the speakers.

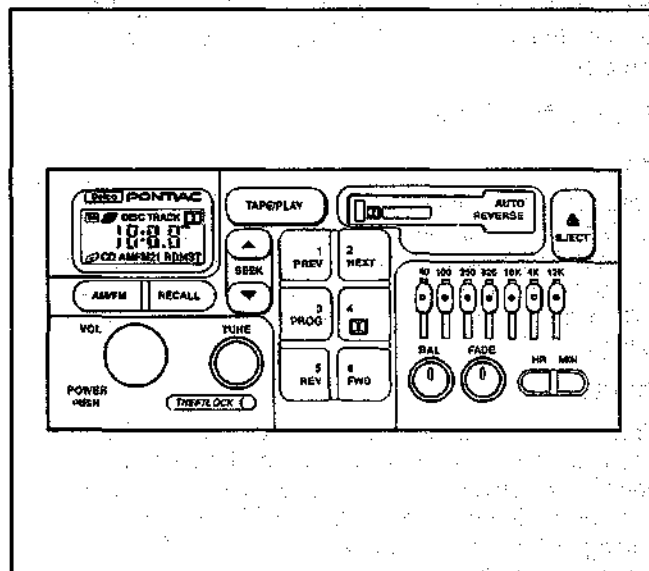
FADE:

Press this knob lightly so the knob extends. Turn the knob clockwise in order to adjust the sound to the front speakers and counterclockwise in order to adjust the sound to the rear speakers. The middle position balances the sound between the speakers.

Push these knobs into their stored positions when not using them.

Radio/Audio System Operation-Radio Controls (RPO W54/X10 (Pontiac))

Monsoon® AM-FM Stereo with Cassette Tape Player and Equalizer



290019

Included with the Monsoon® AM-FM Stereo with Cassette Tape Player and Equalizer are 8 speakers (convertible only) or 10 speakers (coupe only) and a 8 channel amplifier.

Setting the Clock

Press and hold HR until the correct hour appears. Press and hold MIN until the correct minute appears. There will be a two second delay before the clock goes into time-set mode, and the colon on the display will blink while in this mode.

Playing the Radio

POWER-VOL:

Push this knob in order to turn the system on and off. To increase volume, turn the knob clockwise. Turn the knob counterclockwise to decrease volume.

RECALL:

Display the time with the ignition off by pressing this button. When the radio is playing, press this knob in order to recall the station frequency.

Finding a Station

AM/FM:

Press this button in order to switch between AM, FM1 and FM2. The display shows the selection.

TUNE:

Press this knob lightly so the knob extends. Turn the knob to choose radio stations. Push the knob back into the stored position when not in use.

SEEK:

Press the up or down arrow in order to go to the next higher or lower station and stay there.

PUSH-BUTTONS:

The six numbered push-buttons let you return to the favorite stations. There can be up to 18 stations (six AM, six FM1 and six FM2). Perform the following steps:

1. Turn the radio on.
2. Press AM/FM to select the band.
3. Tune in the desired station.
4. Press and hold one of the six numbered buttons until SET appears on the display. Whenever you press that numbered button, the station that was set will return.
5. Repeat the steps for each push-button.

Setting the Tone

EQUALIZER:

A seven-band equalizer is part of the audio system. Slide the levers up in order to boost, or down in order to reduce the frequency range.

Adjusting the Speakers

BAL:

Press this knob lightly so the knob extends. Turn the knob to move the sound to the left or right speakers. The middle position balances the sound between the left and right speakers.

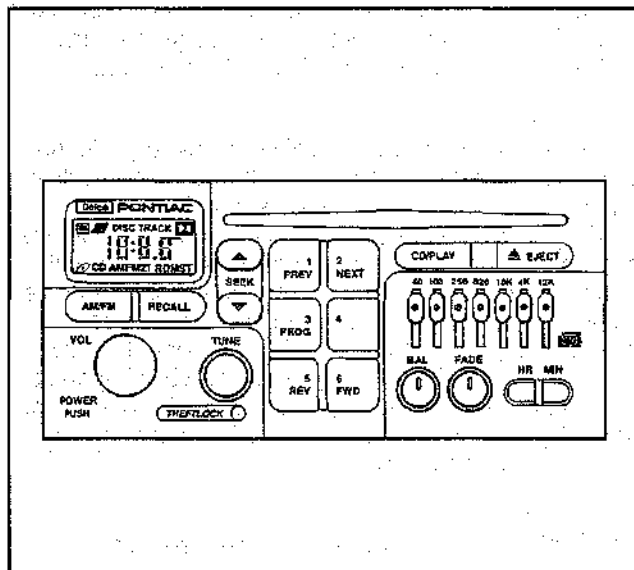
FADE:

Press this knob lightly so the knob extends. Turn the knob to move the sound to the front or right speakers. The middle position balances the sound between the front and rear speakers.

Push these knobs into their stored positions when not using them.

Radio/Audio System Operation-Radio Controls (RPO W53/W55/X20 (Pontiac))

AM-FM Stereo with Compact Disc Player and Equalizer / Monsoon® AM-FM Stereo with Compact Disc Player and Equalizer



290017

If equipped with the AM-FM Stereo with Compact Disc Player and Equalizer, included are 4 speakers.

If equipped with the Monsoon® AM-FM Stereo with Compact Disc Player and Equalizer, included are 8 speakers (convertible only) or 10 speakers (coupe only) and an 8 channel amplifier.

Setting the Clock

Press and hold HR until the correct hour appears. Press and hold MIN until the correct minute appears. There will be a two second delay before the clock goes into time-set mode, and the colon on the display will blink while in this mode.

Playing the Radio

POWER-VOL:

Push this knob in order to turn the system on and off. To increase volume, turn the knob clockwise. Turn the knob counterclockwise in order to decrease volume.

RECALL:

Press this button briefly in order to recall the station being played or to display the clock. If you press the knob when the ignition is off, the clock will show for a few seconds.

Finding a Station

AM/FM:

Press this button in order to switch between AM, FM1, and FM2. The display shows the selection.

TUNE:

Press this knob lightly so the knob extends. Turn it to choose radio stations. Push the knob back into the stored position when not using it.

SEEK:

Press the up or down arrow in order to go to the next higher or lower station and stay there.

PUSH-BUTTONS:

The six numbered push-buttons let you return to the favorite stations. There can be up to 18 stations (six AM, six FM1 and six FM2). Perform the following steps:

1. Turn the radio on.
2. Press AM/FM to select the band.
3. Tune in the desired station.
4. Press and hold on of the six numbered buttons until SET appears on the display. Whenever you press that numbered button, the station that was set will return.
5. Repeat the steps for each push-button.

Setting the Tone

EQUALIZER:

A seven-band equalizer is part of your audio system. Slide the levers up to boost or down to reduce frequency range.

Adjusting the Speakers

BAL:

Press this knob lightly so the knob extends. Turn the knob clockwise for the right speakers and counterclockwise for the left speakers. The middle position balances the sound between the right and left speakers.

FADE:

Press this knob lightly so the knob extends. Turn the knob clockwise in order to adjust the sound to the front speakers and counterclockwise for the rear speakers. The middle position balances the sound between the left and right speakers.

Push these knobs into their stored positions when not using them.

Radio/Audio System Operation-Cassette Tape Player (RPO UM6 (Chevrolet))

The cassette tape player is built to work best with tapes that are up to 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in the tape player.

If nothing is heard or only garbled sound is heard, the tape may not be inserted squarely. Press EJECT to remove the tape and start over.

While the tape is playing, use the VOL, FADE, BAL, BASS and TREB controls just as you do for the radio. Other controls may have different functions when a tape is inserted. The display will show an arrow to show which side of the tape is playing.

REV:

Press the SEEK arrow pointing to the left and the tape will reverse rapidly until you press this button again lightly.

FWD:

Press the SEEK arrow pointing to the right and the tape will rapidly advance until you press this button again lightly.

RECALL:

Press this knob in order to hear the other side of a tape that is playing.

EJECT:

Press this button in order to remove the tape. The radio will play. If a cassette is left in the player while listening to the radio, the cassette may become warm.

CLN:

If this message appears on the display, the cassette tape player needs to be cleaned. The cassette tape player will still play tapes, but the player should be cleaned as soon as possible to prevent damage to the tapes and player. Refer to *Cassette Player Care and Cleaning*. After cleaning the player, press and hold EJECT for 5 seconds to reset the CLN indicator. The radio will display --- to show the indicator was reset.

CD Adapter Kits

It is possible to use a CD adapter kit with this cassette tape player after activating the bypass feature on the tape player.

To activate the bypass feature, use the following steps:

1. Turn the ignition to RUN or ACC.
2. Turn the radio on.
3. Insert the adapter.
4. Within 5 seconds, press and hold the REV and FWD buttons at the same time for 3 seconds. The tape symbol on the display will flash, showing that the cut tape detection feature is no longer active.

This override routine will remain active until EJECT is pressed.

Radio/Audio System Operation-Cassette Tape Player (RPO ULO (Chevrolet))

The cassette tape player is built to work best with tapes that are up to 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in the tape player. If a tape is inserted when the ignition is on but the radio is off, the tape will begin playing. A tape symbol is shown in the center of the graphic display whenever a tape is inserted. When a tape is active, the tape symbol will be accompanied by a direction arrow.

While the tape is playing, use the VOL, AUTO TONE, BAL, FADE, BASS and TREB controls just as you do for the radio. Other controls may have different functions when a tape is inserted. The display will show the tape symbol and an arrow to show which side of the tape is playing.

If you hear nothing or hear just a garbled sound, the tape may not be in squarely. Press EJECT to remove the tape and start over.

The player is able to detect a tight or broken tape, and will eject the tape. The radio will go back to playing the last station selected.

The player automatically senses the cassette for metal or CrO2 and sets the pre-emphasis. Anytime a tape is inserted, the top side is selected to play first.

PREV (1):

Press this button or the left SEEK arrow to go to the previous selection on the tape if the current selection has been playing for less than 8 seconds. If the PREV button is pressed and the current selection has been playing for more than 8 seconds, the tape will go to the beginning of the current selection. The tape must have at least 3 seconds of silence between each selection for PREV or SEEK to work. The tape direction arrow blinks during PREV or SEEK operation. The sound will mute during PREV or SEEK operation. Press this button or one of the SEEK arrows again to return to normal play.

PROG (2):

Press this button in order to play the other side of the tape.

NEXT (3):

Press this button or the right SEEK arrow to go to the next selection on the tape. If you hold the button or press the button more than once, the player will continue moving forward through the tape. The tape must have at least 3 seconds of silence between each selection for NEXT or SEEK to work. The tape direction arrow blinks during NEXT or SEEK operation. The sound will mute during NEXT or SEEK operation. Press this button or one of the SEEK arrows again to return to normal play.

REV (4):

Press this button in order to reverse the tape rapidly. Press REV again in order to return to playing speed. The radio will play the last selected station while the tape reverses.

DOLBY® NOISE REDUCTION (5):

Press the button to reduce background noise. Note that the double-D symbol will appear on the display.

Dolby® Noise Reduction is manufactured under a license from Dolby® Laboratories Licensing Corporation. Dolby® and the double-D symbol are trademarks of Dolby® Laboratories Licensing Corporation.

FWD (6):

Press this button in order to advance quickly to another part of the tape. Press the button again to return to playing speed. The radio will play the last selected station while the tape advances.

AM-FM:

Press this button in order to play the radio when a tape is in the player.

TAPE AUX:

Press this button in order to change to the tape function when the radio is on. The tape symbol with an arrow will appear on the display when the tape is active. If the system is equipped with a remote playback device, pressing this button a second time will allow the remote device to play.

EJECT:

Press this button in order to remove the tape. The radio will play. EJECT may be activated with either the ignition or radio off. Cassettes may be loaded with the radio off if this button is pressed first. If a cassette tape is left in the player while listening to the radio, the tape may become warm.

CLN:

If this message appears on the display, the cassette tape player needs to be cleaned. The cassette tape player will still play tapes, but the player should be cleaned as soon as possible to prevent damage to the tapes and player. Refer to *Cassette Player Care and Cleaning*. After cleaning the player, press and hold EJECT for 5 seconds to reset the CLN indicator. The radio will display --- to show the indicator was reset.

Compact Disc (CD) Adapter Kits

You may use a CD adapter kit with this cassette tape player after activating the bypass feature on the tape player.

To activate the bypass feature, use the following steps:

1. Turn the ignition to RUN or ACC.
2. Turn the radio off.
3. Press and hold the TAPE AUX button for five seconds. The tape symbol on the display will flash for two seconds, indicating the feature is active.
4. Insert the adapter. The adapter will power up the radio and begin playing.

This override routine will remain active until EJECT is pressed.

Radio/Audio System Operation-Cassette Tape Player (RPO W54/X10 (Pontiac))

The cassette tape player is built to work best with tapes that are up to 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in the tape player.

While the tape is playing, use the VOL, FADE and BAL controls just as you do for the radio. The display will show an arrow to show which side of the tape is playing. When the down indicator arrow is lit, selections listed on the bottom side of the cassette are playing. When the up arrow is lit, selections listed on the top side of the cassette are playing. The tape player automatically begins playing the other side when the player reaches the end of the tape.

If E and a number appear on the radio display, the tape won't play because of an error.

- E10: The tape is tight and the player cannot turn the tape hubs. Remove the tape. Hold the tape with the open end down and try to turn the right hub counterclockwise with a pencil. Turn the tape over and repeat. If the hubs do not turn easily, the tape may be damaged and should not be used in the player. Try a new tape to ensure that the player is working properly.
- E11: The tape is broken. Try a new tape.

PREV (1):

Press this button or the SEEK down arrow in order to search for the previous selection on the tape. The tape must have at least 3 seconds of silence between each selection for PREV or SEEK to work. The tape direction arrow blinks during PREV or SEEK operation. Press PREV or the SEEK down arrow to stop searching. The sound will mute during PREV or SEEK operation.

NEXT (2):

Press this button or the SEEK up arrow in order to search for the next selection on the tape. If you hold the button, the player will continue moving forward through the tape. The tape must have at least three seconds of silence between each selection for NEXT or SEEK to work. The tape direction arrow blinks during NEXT or SEEK operation. Press NEXT or the SEEK up arrow to stop searching. The sound will mute during NEXT or SEEK operation.

PROG (3):

Press this button in order to play the other side of the tape.

DOLBY® NOISE REDUCTION (4):

Press this button in order to reduce background noise. Note that the double-D symbol will appear on the display.

Dolby® Noise Reduction is manufactured under a license from Dolby® Laboratories Licensing Corporation. Dolby® and the double-D symbol are trademarks of Dolby® Laboratories Licensing Corporation.

REV (5):

Press this button in order to reverse the tape rapidly. Press REV again in order to return to playing speed. The radio will play the last selected station while the tape reverses. A station may be selected during REV operation by using SEEK or TUNE.

FWD (6):

Press this button in order to advance quickly to another part of the tape. Press this button again in order to return to playing speed. The radio will play the last selected station while the tape advances. A station may be selected during FWD operation by using SEEK or TUNE.

AM-FM:

Press this button in order to play the radio when a tape is in the player.

TAPE/PLAY:

Press this button in order to change to the tape function when the radio is on. The tape symbol with an arrow will appear on the display when the tape is active. To return to playing the radio, press the AM-FM button.

EJECT:

Press this button in order to remove the tape. The radio will play. EJECT may be activated with either the ignition or radio off. Cassettes may be loaded with the radio off if this button is pressed first.

CLN:

If this message appears on the display, the cassette tape player needs to be cleaned. The cassette tape player will still play tapes, but the player should be cleaned as soon as possible to prevent damage to the tapes and player. Refer to *Cassette Player Care and Cleaning* Cassette Player Care and Cleaning. After cleaning the player, press and hold EJECT for five seconds to reset the CLN indicator. The radio will display --- to show the indicator was reset.

Compact Disc (CD) Adapter Kits

You may use a CD adapter kit with this cassette tape player after activating the bypass feature on the tape player.

To activate the bypass feature, use the following steps:

1. Turn the ignition to RUN or ACC.
2. Turn the radio off.
3. Press and hold the TAPE/PLAY button for 3 seconds. The tape symbol on the display will flash for 2 seconds, indicating the feature is active.
4. Insert the adapter, the adapter will power up the radio and begin playing.

This override routine will remain active until EJECT is pressed.

Radio/Audio System Operation-Compact Disc Player (RPO UNO (Chevrolet))**Playing a Compact Disc (CD)**

Insert a CD partway into the slot, label side up. The player will pull it in. The CD should begin playing. The display will show CD and the CD symbol. If you want to insert a CD with the ignition off, first press RECALL or EJECT.

If driving on a very rough road or if the weather is very hot, the disc may not play and ERR (error) may appear on the display. Press RECALL to take ERR off the display. When things get back to normal, the disc should play.

If the disc comes out, the following conditions may be present:

- The CD is upside down.
- The CD is dirty, scratched or wet.
- The air is very humid. If so, wait about an hour and try again.

PREV (1):

Press this button or the left SEEK arrow in order to go to the previous track if the current selection has been playing for less than 8 seconds. If the PREV button is pressed and the current selection has been playing for more than 8 seconds, the CD will go to the beginning of the current selection. If you hold the button or press PRV more than once, the player will continue moving back through the CD. The sound will mute while seeking.

RDM (2):

Press this button in order to hear the tracks in random, rather than sequential, order. RANDOM will show on the display. Press RDM again in order to turn off the random play. RDM is reset to off when the CD is ejected.

NEXT (3):

Press this button or the right SEEK arrow in order to go to the next track. If you hold the button or press NEXT more than once, the player will continue moving forward through the CD. The sound will mute while seeking.

REV (4):

Press and hold this button in order to quickly reverse within a track. Release REV to play the passage. The counter reading on the display can be used to locate a passage quickly.

FWD (6):

Press and hold this button in order to advance quickly within a track. Release FWD to resume playing. The counter reading on the display can be used to locate a passage quickly.

RECALL

Press this button in order to see which track is playing. Press RECALL again within 5 seconds to see how long the track has been playing (elapsed time). The track number also appears when you change the volume or when a new track starts to play. Press RECALL a third time and the time of day will be displayed.

AM-FM:

Press this button in order to play the radio when a CD is playing. The CD will stop but remain in the player. The CD icon will disappear off the display.

CD AUX

Press this button to change to the CD function when the radio is on. A CD icon will appear on the display when a CD is in the player, whether the CD is active or not. If the system is equipped with a remote playback device, pressing this button a second time will allow the remote device to play.

EJECT:

Press this button in order to remove the CD or stop the CD and switch to the radio. The CD will start at the first track when you reinsert it.

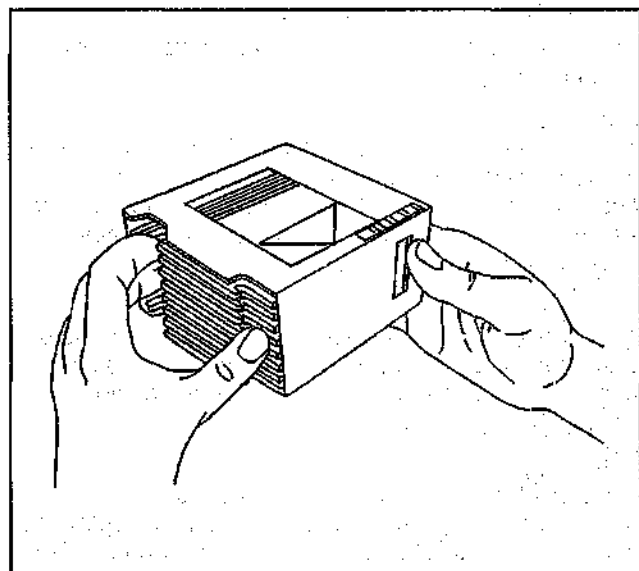
If you turn off the ignition or radio with a CD in the player, the CD will stay in the player. When you turn on the ignition or system, the disc will start playing.

where the CD was stopped. If you press EJECT but do not remove the CD, the player will pull the CD back in to protect it after about 1 minute. If you leave a CD in the player while listening to the radio, the CD may become warm.

Trunk-Mounted CD Changer

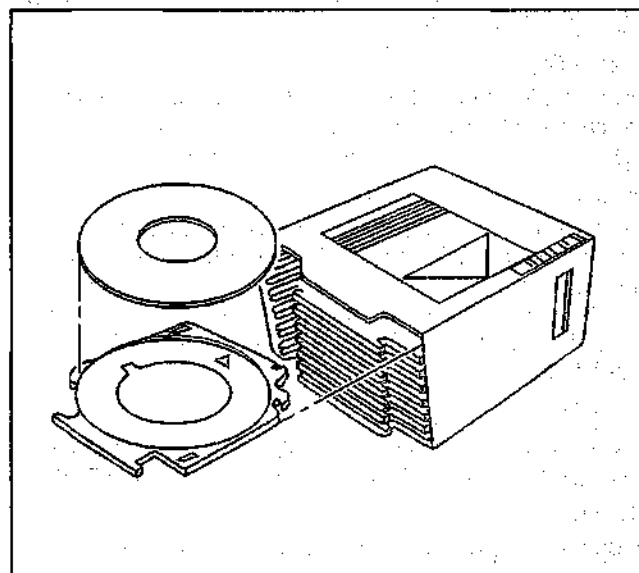
With the optional CD changer, 12 CD's can be played continuously. Normal size discs may be played using the trays supplied in the magazine. The small CD's (8 cm) can be played only with specially designed trays.

First load the magazine with CD's before you can play a CD. Each of the 12 trays holds one CD.



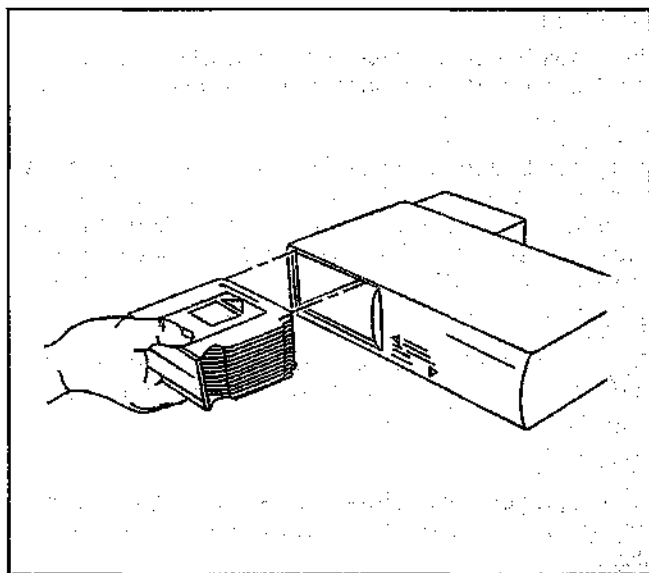
379388

Press the button on the back of the magazine and pull gently on one of the trays.



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Load the trays from the bottom to the top, placing a CD on the tray label side down. If you load a CD label side up, the CD will not play and an error will occur.



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Gently push the tray back into the magazine slot. Repeat this procedure for loading up to 12 CD's in the magazine.

Once the CD's are loaded in the magazine, slide open the door of the CD changer. Push the magazine into the CD changer in the direction of the arrow on top of the magazine.

Close the door by sliding the door all the way to the left. If the door is left partially open, the CD changer will not operate and an error will occur. When the door is closed, the CD changer will begin checking for CD's in the magazine. This will continue for up to 2 minutes depending on the number of CD's loaded.

To eject the magazine from the CD changer, slide the CD changer door all the way open. The magazine will automatically eject. Remember to keep the door closed when possible to keep dirt and dust from getting inside the CD changer.

Whenever a magazine with CD's is loaded in the CD changer, the CD symbol will appear on the radio display. If the CD changer is checking the magazine for CD's the CD symbol will flash on the display until the CD changer is ready to play. When a CD begins playing, a disc and track number will be displayed. The disc numbers are listed on the front of the magazine.

All of the CD functions are controlled by the radio buttons, except for ejecting the magazine.

PREV (1):

Press this button or the SEEK left arrow in order to go to the previous track if the current selection has been playing for less than 8 seconds. If the PREV button is pressed and the current selection has been playing for more than 8 seconds, the CD will go to the beginning of the current selection. If you hold or press this button more than once, the CD changer will continue moving back through the CD. The sound will mute while seeking.

PROG (2):

Press this button in order to select a CD. The CD number and track number will be displayed.

NEXT (3):

Press this button or the SEEK right arrow to go to the next track. If you hold the button or press the button more than once, the CD changer will continue moving forward through the CD. The sound will mute while seeking.

REV (4):

Press and hold this button in order to reverse quickly through a track selection. Release REV to resume playing.

FWD (6):

Press and hold this button in order to advance quickly through a track selection. Release FWD to resume playing.

SEEK

Press the right arrow to seek to the next selection on the CD. Press the left arrow to search for the previous selection on the CD. The sound will mute while seeking.

P.SCAN

Press this button in order to hear the tracks in random, rather than sequential, order. RANDOM will appear on the display. Press P.SCAN again to turn off random play.

TAPE AUX

Press this button if there is a CD loaded in the CD changer and the radio is turned on, to play a CD. Press AM-FM to return to the radio when a CD is playing. Press TAPE AUX to switch between the tape and CD if both are loaded.

CD Changer Errors

If an error occurred while trying to play a CD in the CD changer, the following conditions may have caused the error:

- The road is too rough. The CD should play when the road is smoother.
- The CD is dirty, scratched or wet.
- The CD is label side up. If so, load the CD label side down.
- The air is very humid. If so, wait about an hour and try again.
- The CD changer door is open. Completely close the door to restore normal operation.
- An empty magazine is inserted in the CD changer. Try the magazine again with a CD loaded on one of the trays.

Radio/Audio System Operation-Compact Disc Player (PRO W53/W54/W55/X10/X20 (Pontiac))

Playing a Compact Disc (CD)

Insert a CD partway into the slot, label side up. The CD player will pull the CD in. If the ignition and the radio are on, the CD will begin playing. If you want to insert a CD when the ignition off, first press EJECT. If driving on a very rough road or if it's very hot, the CD may not play and E (error) may appear on the display. If the CD comes out, the following conditions may be present:

- The CD is upside down.
- The CD is dirty, scratched or wet.
- The air is very humid. If so wait about an hour and try again.

PREV (1):

Press this button or the SEEK down arrow in order to go to the start of the current track if more than 8 seconds have played. If you hold the button or press the button more than once, the player will continue moving back through the CD.

NEXT (2):

Press this button or the SEEK up arrow in order to go to the next track. If you hold the button or press it more than once, the player will continue moving forward through the CD.

RDM (3):

Press this button in order to hear the tracks in random, rather than sequential, order. The display will show RDM. Press RDM again to turn off random play.

REV (5):

Press and hold this button in order to quickly reverse within a track. Release REV to play the passage. You will hear sound at a reduced volume. The display will show elapsed time.

FWD (6):

Press and hold this button in order to quickly advance within a track. You will hear sound at a reduced volume. The display will show elapsed time.

RECALL

Press this button in order to see which track is playing. Press RECALL again within 5 seconds to see how long it has been playing. When a new track starts to play, the track number will also appear. Press RECALL a third time and the time of day will be displayed.

AM-FM:

Press this button in order to play the radio when a CD is playing. The CD will stop but remain in the player.

CD/PLAY:

Press this button in order to change to the CD function when the radio is on.

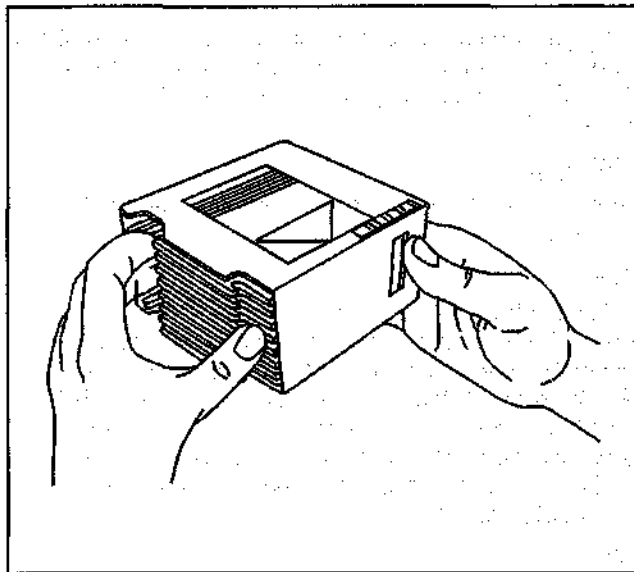
EJECT:

Press this button in order to remove the CD or stop the CD and switch to the radio. EJECT will work with the radio off.

Trunk-Mounted Compact Disc CD Changer

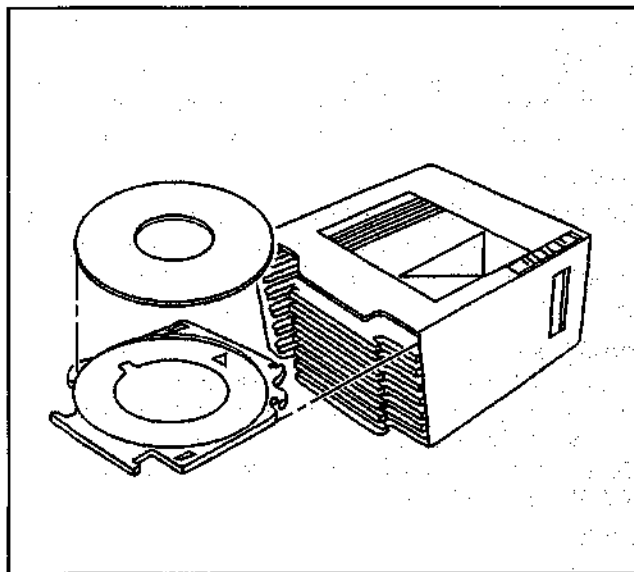
With the optional CD changer, 12 CD's can be played continuously. Normal size CD's may be played using the trays supplied in the magazine. The small CD's (8 cm) can be played only with specially designed trays.

First load the magazine with CD's before you can play a CD. Each of the 12 trays holds one CD.



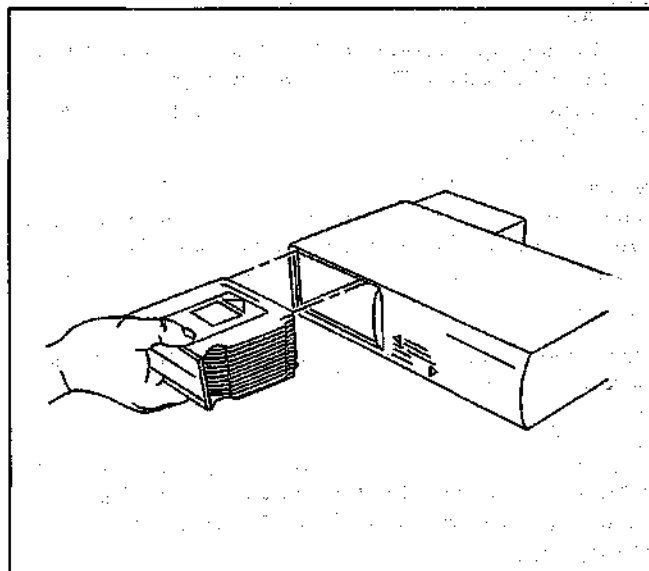
379388

Press the button on the back of the magazine and pull gently on one of the trays.



379389

Load the trays from the bottom to top, placing a CD on the tray label side down. If you load a CD label side up, the CD will not play and an error will occur.



379387

Gently push the tray back into the magazine slot. Repeat this procedure for loading up to 12 CD's in the magazine.

Once the CD's are loaded in the magazine, slide open the door of the CD changer. Push the magazine into the CD changer in the direction of the arrow on top of the magazine.

Close the door by sliding it all the way to the left. If the door is left partially open, the CD changer will not operate and an error will occur. When the door is closed, the CD changer will begin checking for CD's in the magazine. This will continue for up to 2 minutes depending on the number of CD's loaded.

To eject the magazine from the CD changer, slide the CD changer door all the way open. The magazine will automatically eject. Remember to keep the door closed when possible to keep dirt and dust from getting inside the CD changer.

Whenever a magazine with CD's is loaded into the CD changer, the CD symbol will appear on the radio display. If the CD changer is checking the magazine for CD's the CD symbol will flash on the display until the CD changer is ready to play. When a CD begins playing, a disc and track number will be displayed. The disc numbers are listed on the front of the magazine.

All of the CD functions are controlled by the radio buttons, except for ejecting the magazine.

Playing a CD (RPO W54/X10)

If the vehicle is equipped with the Monsoon® AM-FM Stereo with Cassette Tape Player and Equalizer, the following buttons are used for the trunk-mounted CD changer.

PREV (1):

Press this button to go back to the start of the current track if more than 8 seconds have played. Press PREV again to go to the previous track on the CD.

NEXT (2):

Press this button in order to advance to the next track on the CD.

PROG (3):

Press this button in order to select the next CD in the magazine. If a CD cannot be played, its number will be skipped when selecting CD's while using the PROG button.

DOLBY® NOISE REDUCTION (4):

Press this button to reduce background noise. Note that the double-D symbol will appear on the display.

Dolby® Noise Reduction is manufactured under a license from Dolby® Laboratories Licensing Corporation. Dolby® and the double-D symbol are trademarks of Dolby® Laboratories Licensing Corporation.

REV (5):

Press and hold this button in order to quickly reverse within a track. As the CD reverses, elapsed time will be displayed to help you find the correct track.

FWD (6):

Press and hold this button in order to quickly advance within a track. As the CD advances, elapsed time will be displayed to help you find the correct track.

RECALL:

Press this button in order to recall what track is currently playing. Press RECALL again within 5 seconds to see how long the track has been playing. When a new track starts to play, the track number will also appear. Press RECALL a third time and the time of day will be displayed.

SEEK:

Press the SEEK down arrow while playing a CD in order to go back to the start of the current track if more than 8 seconds have played. If you press SEEK again, the CD changer will go to previous tracks. Press the SEEK up arrow and the CD will go to the next higher track.

TAPE/PLAY

Press this button in order to play a CD if you have a magazine loaded in the CD changer and the radio is playing. To return to the radio while a CD is playing, press AM-FM. You can also press this button to switch between a cassette tape and CD, if both are loaded.

Playing a CD (RPO W53/W55/X20)

If the vehicle is equipped with the AM-FM Stereo with Compact Disc Player and Equalizer, the following buttons are used for the trunk-mounted CD changer.

If the vehicle is equipped with the Monsoon® AM-FM Stereo with Compact Disc Player and Equalizer, the following buttons are used for the trunk-mounted CD changer.

PREV (1):

Press this button in order to go back to the start of the current track if more than 8 seconds have played. Press PREV again to go to the previous track on the CD.

NEXT (2):

Press this button in order to advance to the next track on the CD.

RDM (3):

Press this button in order to enter the random play mode. RDM will appear on the display. While in this mode, the tracks on the CD's will be played in random order. If the number 4 preset button or SEEK is pressed while in the random mode, CD's and tracks will be scanned randomly. Press RDM button again in order to turn off the random feature and return to normal operation.

(4):

Press this button in order to select the next CD in the magazine. If a CD cannot be played, its number will be skipped when selecting CD's while using this button.

REV (5):

Press and hold this button in order to quickly reverse within a track. As the CD reverses, elapsed time will be displayed to help you find the correct track.

FWD (6):

Press and hold this button in order to quickly advance within a track. As the CD advances, elapsed time will be displayed to help you find the correct track.

RECALL:

Press this button in order to see what track is currently playing. Press RECALL again within 5 seconds to see how long the track has been playing. When a new track starts to play, the track number will also appear. Press RECALL a third time and the time of day will be displayed.

SEEK:

Press the SEEK down arrow while playing a CD to go back to the start of the current track if more than 8 seconds have played. If you press SEEK again, the CD changer will go to previous tracks. Press the SEEK up arrow and it will go to the next higher track on the CD.

CD/PLAY

Press this button to play a CD if you have a magazine loaded in the CD changer and the radio is playing. To return to the radio while a CD is playing, press AM-FM. Also press this button to switch between a CD in the CD player and a CD in the trunk-mounted CD changer, if both are loaded.

Compact Disc Errors

If E and a number appear on the display, and error has occurred and the CD temporarily cannot play.

The CD changer will send an error message to the receiver to indicate:

- E30: CD label side up
- E34: CD changer door open
- E35: CD changer cartridge empty

If the error occurred while trying to play a CD in the CD player or CD changer, the following conditions may have caused the error:

- The road is too rough. The CD should play when the road is smoother.
- The CD is dirty, scratched or wet.
- The CD is label side up. If so, load the CD label side down.
- The air is very humid. If so, wait about an hour and try again.
- The CD changer door is open. Completely close the door to restore normal operation.
- An empty magazine is inserted in the CD changer. Try the magazine again with a CD loaded on one of the trays.

Radio/Audio System Operation-Theftlock**Theft-Deterrent Feature**

THEFTLOCK® is designed to discourage theft of the radio. THEFTLOCK® works by using a secret code to disable all radio functions whenever battery power is removed.

The THEFTLOCK® feature for the radio may be used or ignored. If ignored, the system plays normally and the radio is not protected by the feature. If THEFTLOCK® is activated, the radio will not operate if stolen.

When THEFTLOCK® is activated, the radio will display LOC to indicate a locked condition anytime battery power has been interrupted. If the battery loses power for any reason, the radio must be unlocked with the secret code before the radio will operate.

Activating the Theft-Deterrent Feature

The instructions that follow explain how to enter the secret code to activate the THEFTLOCK® system. Read through all nine steps before starting the procedures.

If you allow more than 15 seconds to elapse between any steps, the radio automatically reverts to the time and you must start the procedure over at step 4.

1. Write down any three or four digit number from 000 to 1999.
2. Turn the ignition to ACC or RUN.
3. Turn the radio off.
4. Press the 1 and 4 buttons together. Hold them down until - - - shows on the display. Next use the secret code number which you have written down.
5. Press MN and 000 will appear on the display.
6. Press MN again to make the last two digits agree with your code.
7. Press HR to make the first one or two digits agree with your code.
8. Press AM-FM after you have confirmed that the code matches the secret code you have written down. The display will show REP to let you know that you need to repeat steps 5 through 7 to confirm your secret code.
9. Press AM-FM and this time the display will show SEC to let you know that your radio is secure. The LED indicator by the volume control will begin flashing when the ignition is turned off.

Unlocking The Theft-Deterrent Feature After a Power Loss

Enter the secret code as follows; pause no more than 15 seconds between steps:

1. Turn the ignition on. LOC will appear on the display.
2. Press MN and 000 will appear on the display.
3. Press MN again to make the last two digits agree with your code.
4. Press HR to make the first one or two digits agree with your code.
5. Press AM-FM after you have confirmed that the code matches the secret code that is written down. The display will show SEC, indicating the radio is now operable and secure.

If the wrong code is entered eight times, INOP will appear on the display. You will have to wait an hour with the ignition on before you can try again. When you try again, you will only have three chances to enter the correct code before INOP appears.

Disabling the Theft-Deterrent Feature

Enter the secret code as follows; pause no more than 15 seconds between steps:

1. Turn the ignition to ACC or RUN.
2. Turn the radio off.
3. Press the 1 and 4 buttons together. Hold them down until SEC shows on the display.
4. Press MN and 000 will appear on the display.
5. Press MN again to make the last two digits agree with the code.
6. Press HR to make the first one or two digits agree with the code.
7. Press AM-FM after you have confirmed that the code matches the secret code that is written down. The display will show - - -, indicating that the radio is no longer secured.

If the code entered is incorrect, SEC will appear on the display. The radio will remain secured until the correct code is entered.

Determining Factory Backup Code

If the security is activated and the radio is disconnected from the battery power, the radio will display LOC. The radio turns ON when the correct unlocking code is entered. If the customer's code is lost or unavailable, refer to the Dealer Communications System Bulletin or call Technical Assistance.

Radio/Audio System Circuit Description

For THEFTLOCK Anti-Theft feature or for radio features and control operations refer to *Radio/Audio System Operation-Theftlock*

The radio receives battery voltage at all times circuit 640 from the PWR ACCY Fuse 7 to keep clock and preset station memory enabled when the ignition is off. With the ignition switch in the ACCY position, the RUN position or during Retained Accessory Power (RAP), voltage is applied from the RADIO Fuse 17 to enable radio operation.

When the park lights or the headlights are turned on, voltage is applied to the radio from the headlamp switch in order to illuminate the display. With the headlights or the park lights on, the radio display may be dimmed manually using the IP dimmer switch. The IP dimmer switch varies the voltage on to the radio to control display dimming.

Speakers: Chevrolet UQ0 and Pontiac W53, W54, W55 Entertainment Systems

With the base speaker system, the audio signals are amplified within the radio, and the output signals go directly to the speakers.

Speakers: Chevrolet UZ7 (6 Speaker Sound System)

All radio audio output signals are connected directly to the amplifier. All of the 6 speakers in the system are connected to the amplifier outputs and are driven by the amplified radio audio signals. The amplifier is used to drive two rear extended range speakers, two rear subwoofers, and two front speaker assemblies consisting of one tweeter and one midrange speaker.

Speakers: Chevrolet U59 Entertainment System (8 Speaker — Convertible Only)

All radio output signals are connected directly to the amplifier. The eight speakers in the system are connected to the amplifier outputs and are driven by the amplified radio audio signals. The amplifier is used to drive two front speaker assemblies consisting of one tweeters and one midrange each and two rear speaker assemblies consisting of one tweeter and one subwoofer each.

Speakers: Pontiac W54 and W55 Entertainment Systems (10 Speaker Sound System)

Radio audio output signals for two front tweeters and two rear tweeters are amplified within the radio, and the output signals go directly to the speakers.

All radio audio output signals are also connected to the amplifier. The other six speakers in the system are connected to the amplifier outputs and are driven by the amplified radio audio signals. The amplifier is used to drive two front midrange speakers, two rear midrange speakers, and two rear subwoofers with dual voice coils.

Steering Wheel Controls System Operation

Steering wheel controls enable remote control of the following sound system functions (if equipped):

- **PLAY**
Starts playing the cassette tape player or the compact disc player
- **VOL**
Adjusts the volume of the AM/FM stereo, cassette tape player or the compact disc player
- **PRE-SET**
Presets radio stations
- **AM/FM**
Switches between the AM and the FM bands
- **SEEK**
Seeks the next station, either up or down
- **MUTE**
Mutes the volume of the AM/FM stereo, cassette tape player or the compact disc player.

Steering Wheel Controls System Circuit Description

Steering Wheel Radio Control Switches

The steering wheel control switches control the following radio features:

- The preset stations
- The cassette player
- The volume
- The station frequency

Voltage is supplied to the RH steering wheel controls through the STG WHL CNTRL Fuse 3 when the ignition switch is in the ACCY position or the RUN position or the RAP mode is active. The switches are a ladder network consisting of the switches and a series of resistors. The ladder network allows each switch to have a different resistance. The different resistances allow a different voltage output to the radio.

The steering wheel control (SWC) switches use incandescent backlighting. Voltage is supplied to both steering wheel controls for the switch incandescent backlighting through the STG WHL CNTRL Fuse 13. The illumination signal circuit is a pulse width modulated (PWM) signal from the headlight switch. The bulbs are serviceable.

SIR Coil Assembly

The SIR Coil Assembly contains 6 wires, four of which are used by the SWC. The SWC allows voltage to be sent from the steering wheel switches to the radio while the steering wheel is being turned.

Power Antenna System Description

The rear-mounted, telescoping, rod-type antenna fully extends whenever the radio is in use. The antenna retracts when the following conditions exist:

- The radio is off.
- The ignition switch is in the OFF position.
- The retained accessory power (RAP) is inactive.

The antenna mast is attached to a plastic cable that is driven up and down by an electric motor. The motor is automatically shut off by the limit switches when the antenna reaches the full up or full down position.

Power Antenna System Circuit Description

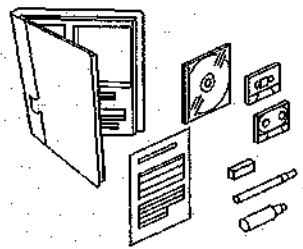
When the radio is turned on, voltage is applied from the radio through to the radio power antenna internal relay coil. The relay contacts close, and battery voltage is applied to the motor. Terminal B of the motor is grounded through the up switch and the relay contacts. The motor drives the antenna mast up. When the antenna is at its full height, the up switch opens and the motor stops.

When the radio or ignition switch is turned off, voltage is removed from the relay coil. The relay contacts open, applying battery voltage to the motor. The motor terminal A is now grounded. The down switch at the antenna now has voltage applied through the relay, and the voltage of the motor has reversed polarity. It runs in the opposite direction, retracting the antenna mast.

At the end of the antenna's travel, the down switch opens and breaks the current flow. Both sets of switches are now in the places shown in the schematic, the radio is off, and the antenna mast is down.

The antenna is connected to the radio by coaxial cable.

Special Tools and Equipment

Illustration	Tool Number/ Description
 3430	J 39200 Digital Multimeter
 65874	J 39916-A Audio System Diagnostic Kit