

2004 Cadillac SRX

2004 ACCESSORIES & EQUIPMENT Entertainment - SRX

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Entertainment - SRX

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Amplifier Mounting Bolts	9 N.m	80 lb in
Front Door Speaker Mounting Screws	2 N.m	18 lb in
Front I/P Speaker Mounting Screws	2 N.m	18 lb in
Microphone Mounting Screws	2 N.m	18 lb in
Radio Mounting Bolts	9 N.m	80 lb in
Rear Door Speaker Mounting Screws	2 N.m	18 lb in
Rear Speaker Mounting Screws	9 N.m	80 lb in
TV Antenna Mounting Screws	2 N.m	18 lb in
TV Antenna Module Mounting Screws	2 N.m	18 lb in

SCHEMATIC AND ROUTING DIAGRAMS

ENTERTAINMENT SCHEMATIC ICONS

Entertainment Schematic Icons

Icon	Icon Definition
	CAUTION: This vehicle is equipped with a Supplemental Inflatable Restraint (SIR) System. Failure to follow the correct procedure could cause the following conditions: • Air bag deployment • Personal injury • Unnecessary SIR system repairs In order to avoid the above conditions, observe the following guidelines:



- Refer to SIR Component Views in order to determine if you are performing service on or near the SIR components or the SIR wiring.
- If you are performing service on or near the SIR components or the SIR wiring, disable the SIR system. Refer to Disabling the SIR System in SIR.

**IMPORTANT:**

Twisted-pair wires provide an effective "shield" that helps protect sensitive electronic components from electrical interference. If the wires were covered with shielding, install new shielding.

In order to prevent electrical interference from degrading the performance of the connected components, you must maintain the proper specification when making any repairs to the twisted-pair wires shown :

- The wires must be twisted a minimum of 9 turns per 31 cm (12 in) as measured anywhere along the length of the wires.
- The outside diameter of the twisted wires must not exceed 6.0 mm (0.2 in).

Fig. 1: Radio and Audio Amplifier (U2R/U2S)
Courtesy of GENERAL MOTORS CORP.

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Courtesy of GENERAL MOTORS CORP.

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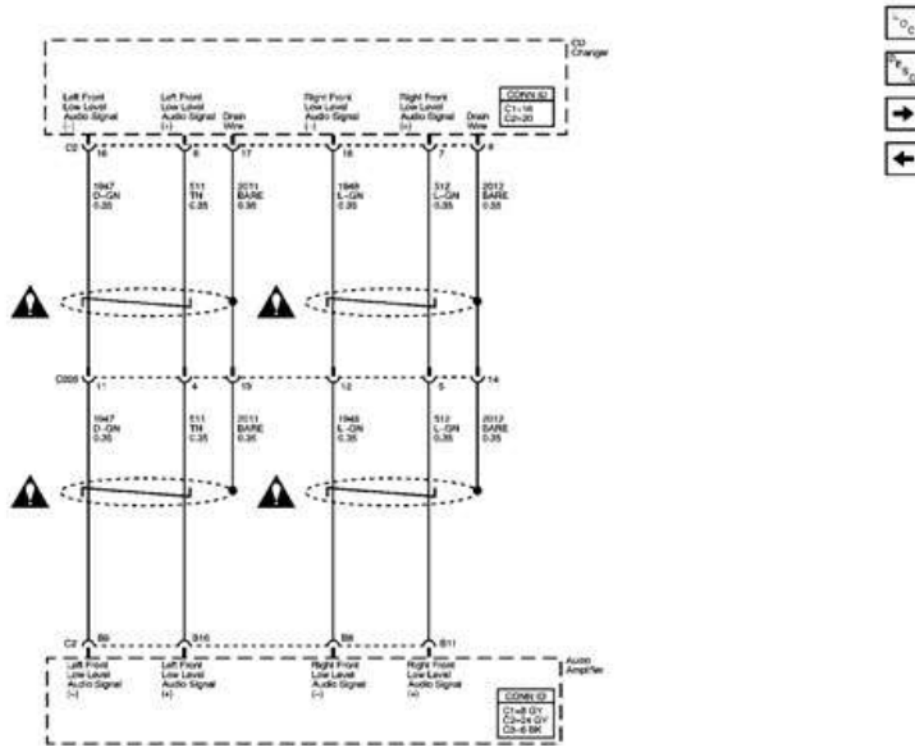
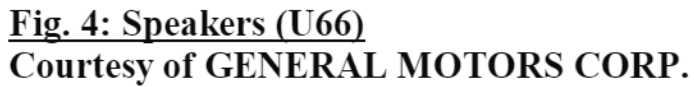


Fig. 3: CD Player To Audio Amplifier (U2V/U2X/U2Y)
 Courtesy of GENERAL MOTORS CORP.

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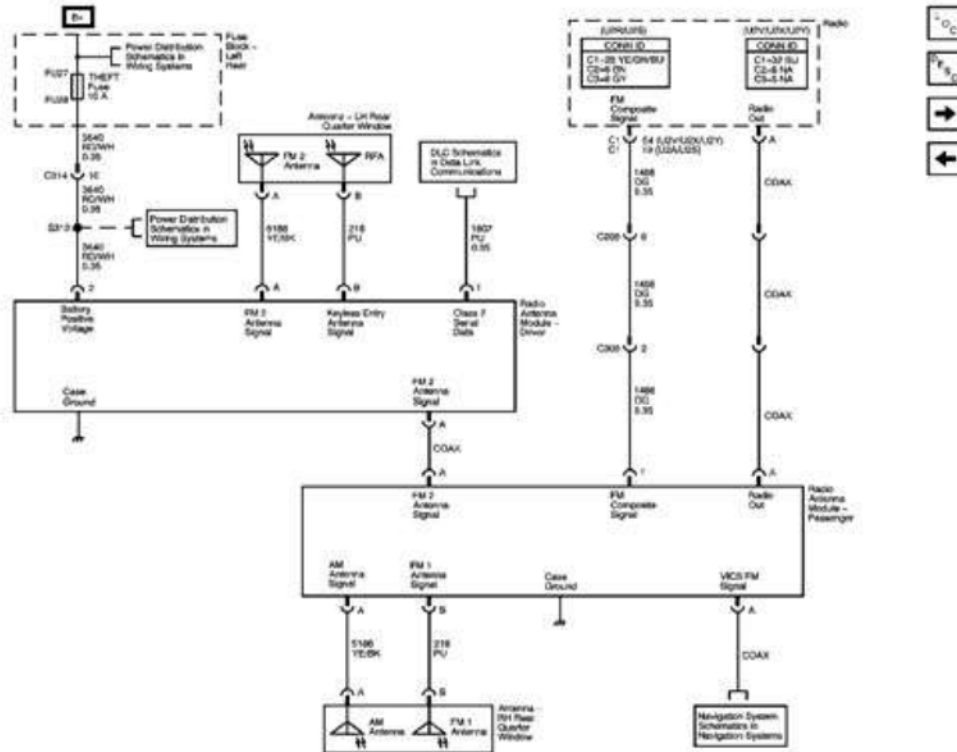


Fig. 6: Radio Antenna
Courtesy of GENERAL MOTORS CORP.

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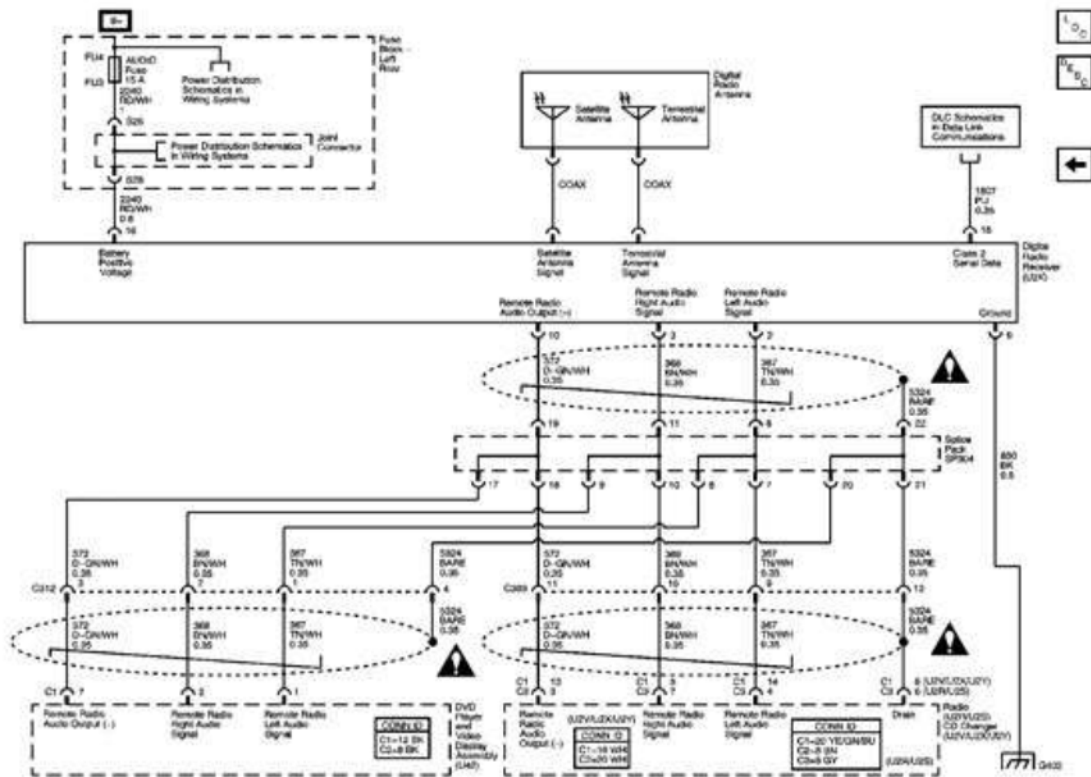


Fig. 7: Digital Radio (U2K)
 Courtesy of GENERAL MOTORS CORP.

STEERING WHEEL CONTROLS SCHEMATICS

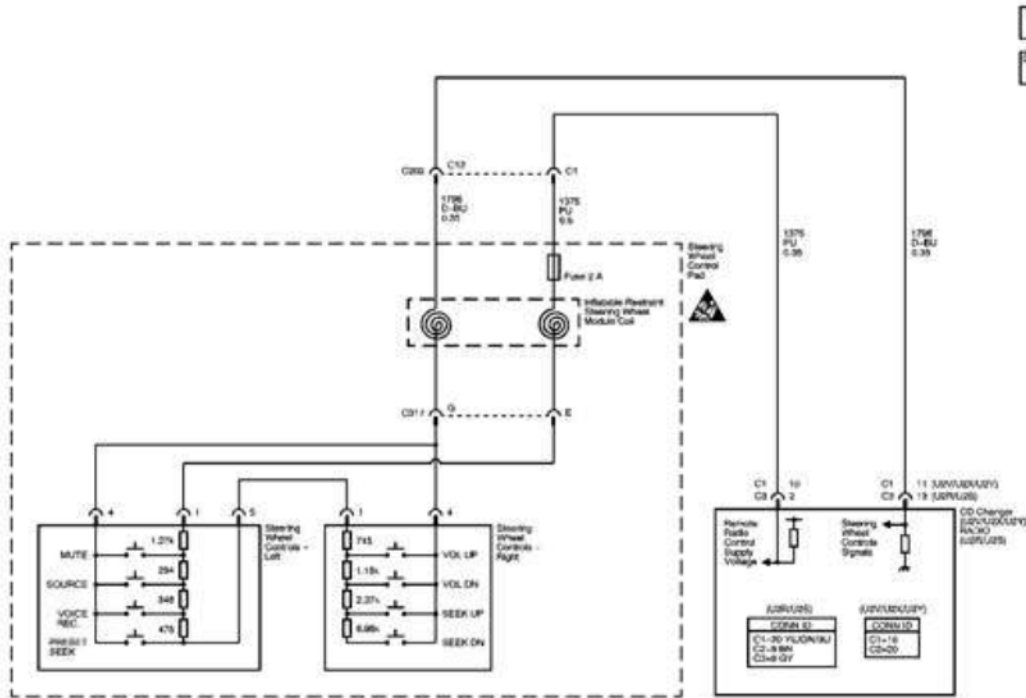


Fig. 8: Steering Wheel Controls Schematics
 Courtesy of GENERAL MOTORS CORP.

VIDEO SYSTEM SCHEMATICS (U2X/U2Y)



VIDEO SYSTEM SCHEMATICS (U2V)

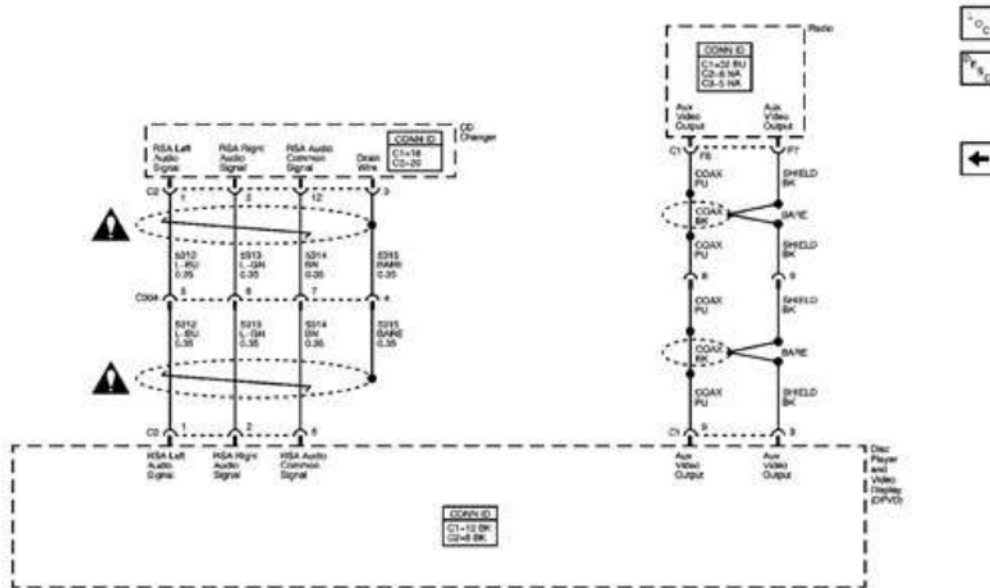


Fig. 10: Video System Schematics (U2V)
 Courtesy of GENERAL MOTORS CORP.

COMPONENT LOCATOR

ENTERTAINMENT COMPONENT VIEWS

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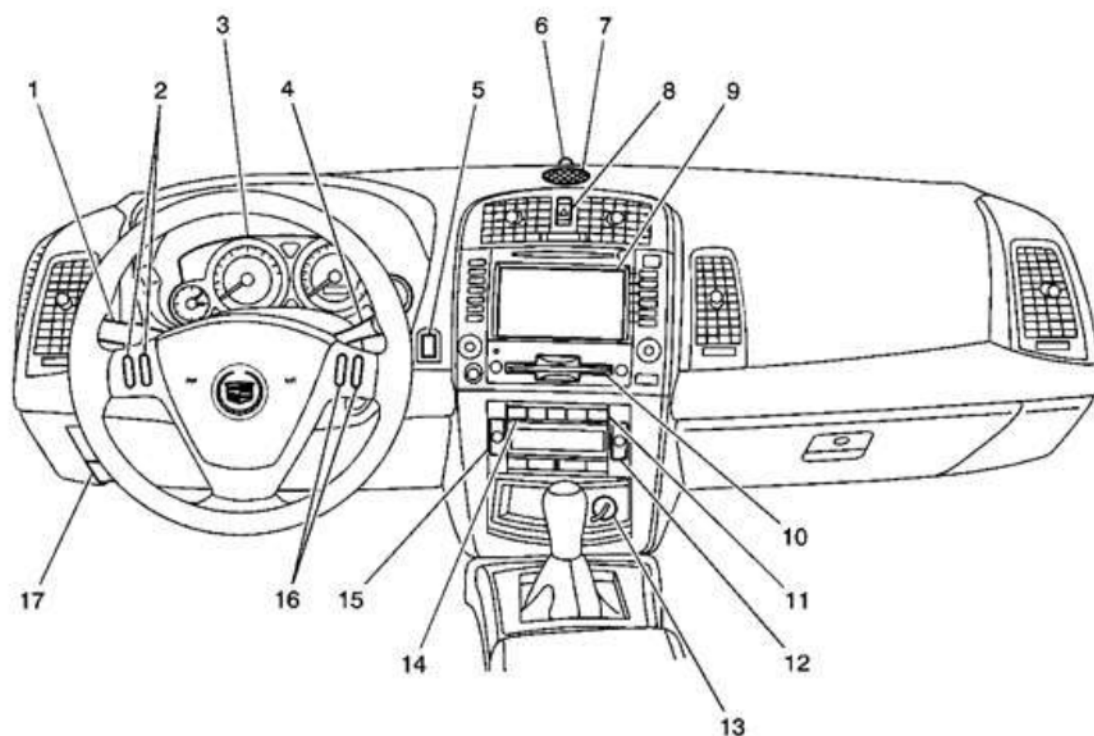


Fig. 11: Instrument Panel Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 11

Callout	Component Name
1	Turn Signal/Multifunction Switch
2	Steering Wheel Controls - Left
3	Instrument Panel Cluster
4	Windshield Wiper/Washer Switch
5	Inside Air Temperature Sensor
6	Sunload/Ambient Light Sensor
7	Speaker - Front Midrange (U57)
8	Hazard Switch
9	Radio
10	CD Player
11	HVAC Control Module - Climate Control - Right
12	Heated Seat Switch - Passenger (KA1)
13	Cigar Lighter
14	Heated Seat Switch - Driver (KA1)

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15	HVAC Control Module - Climate Control - Left
16	Steering Wheel Controls - Left
17	Hood Release Lever

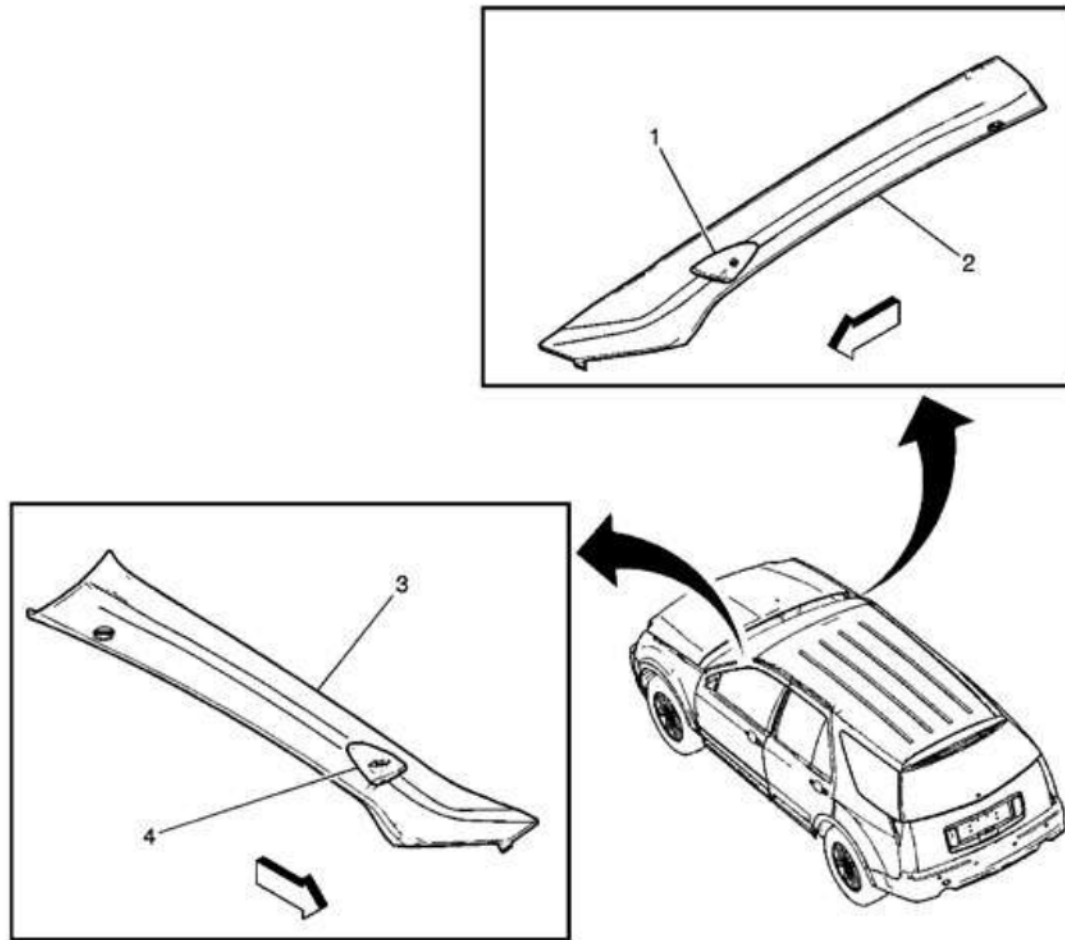


Fig. 12: A Pillar Speakers Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 12

Callout	Component Name
1	Speaker - Right A Pillar Tweeter
2	A Pillar - Right
3	A Pillar - Left
4	Speaker - Left A Pillar Tweeter

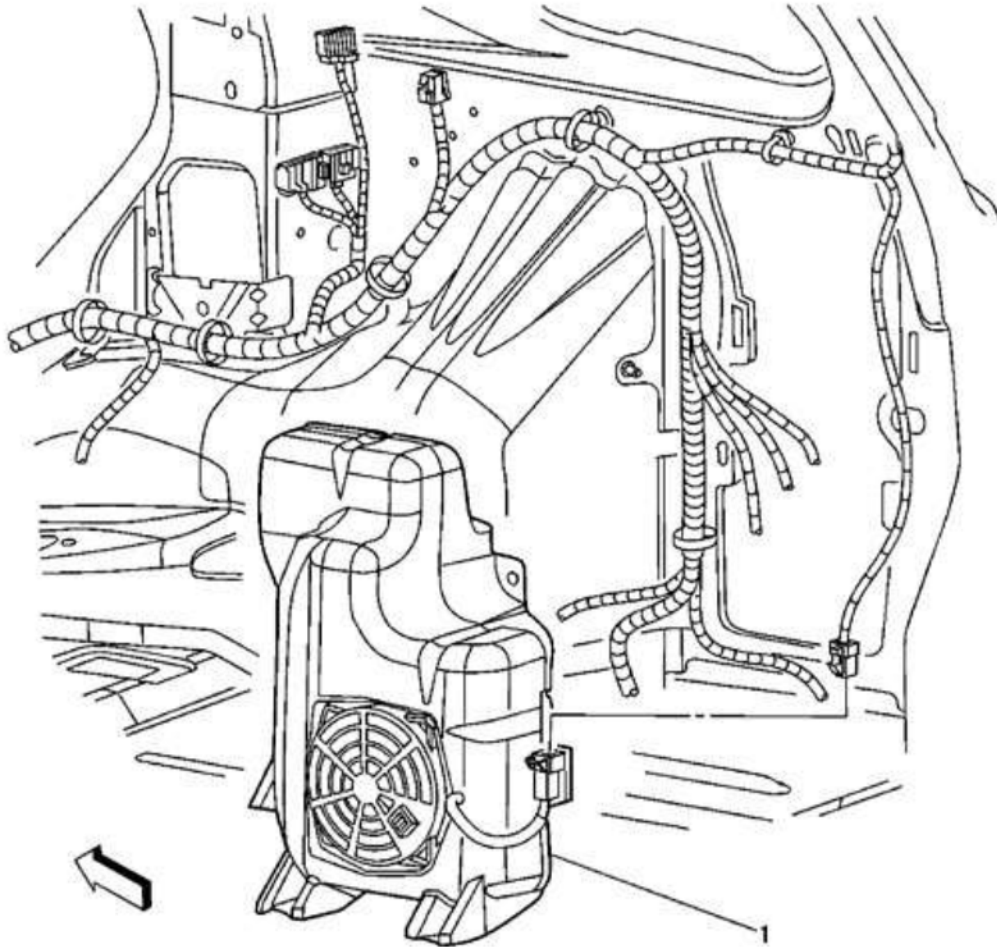


Fig. 13: Right Rear Of Vehicle Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 13

Callout	Component Name
1	Speaker - Rear Subwoofer

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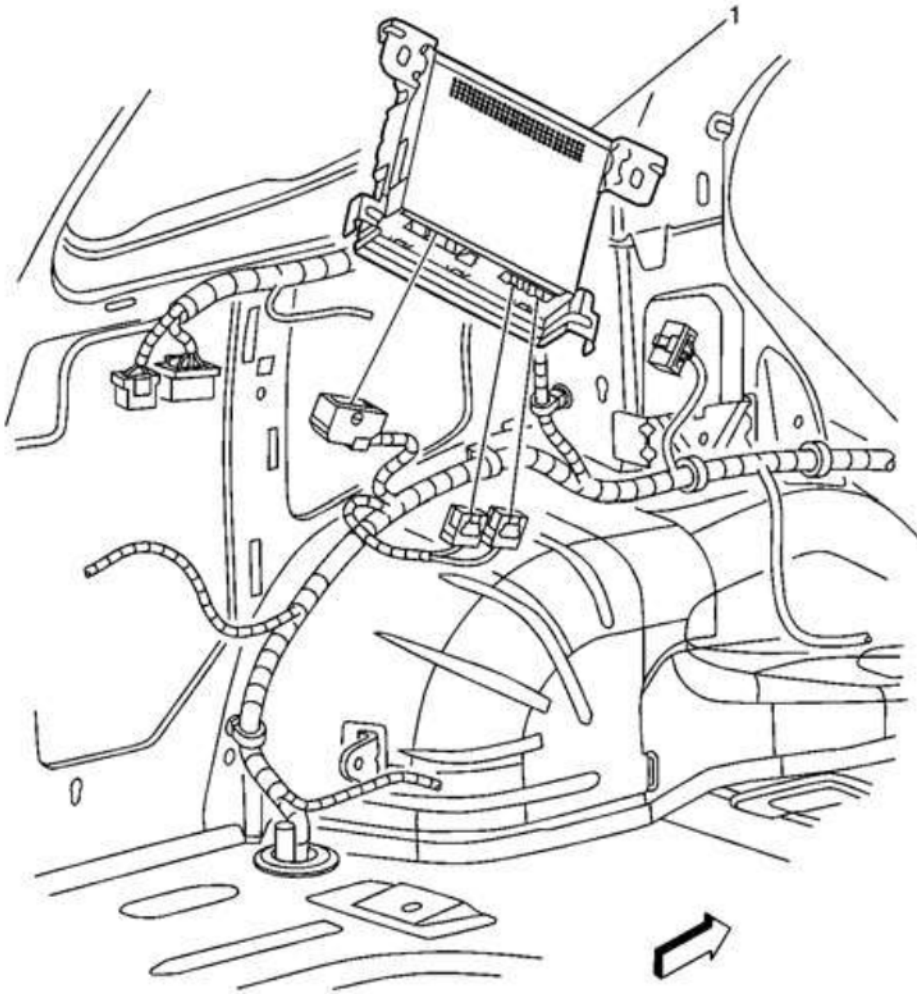


Fig. 14: Left Rear Of Vehicle Behind Trim Panel (U2X/U2Y) Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 14

Callout	Component Name
1	TV Tuner

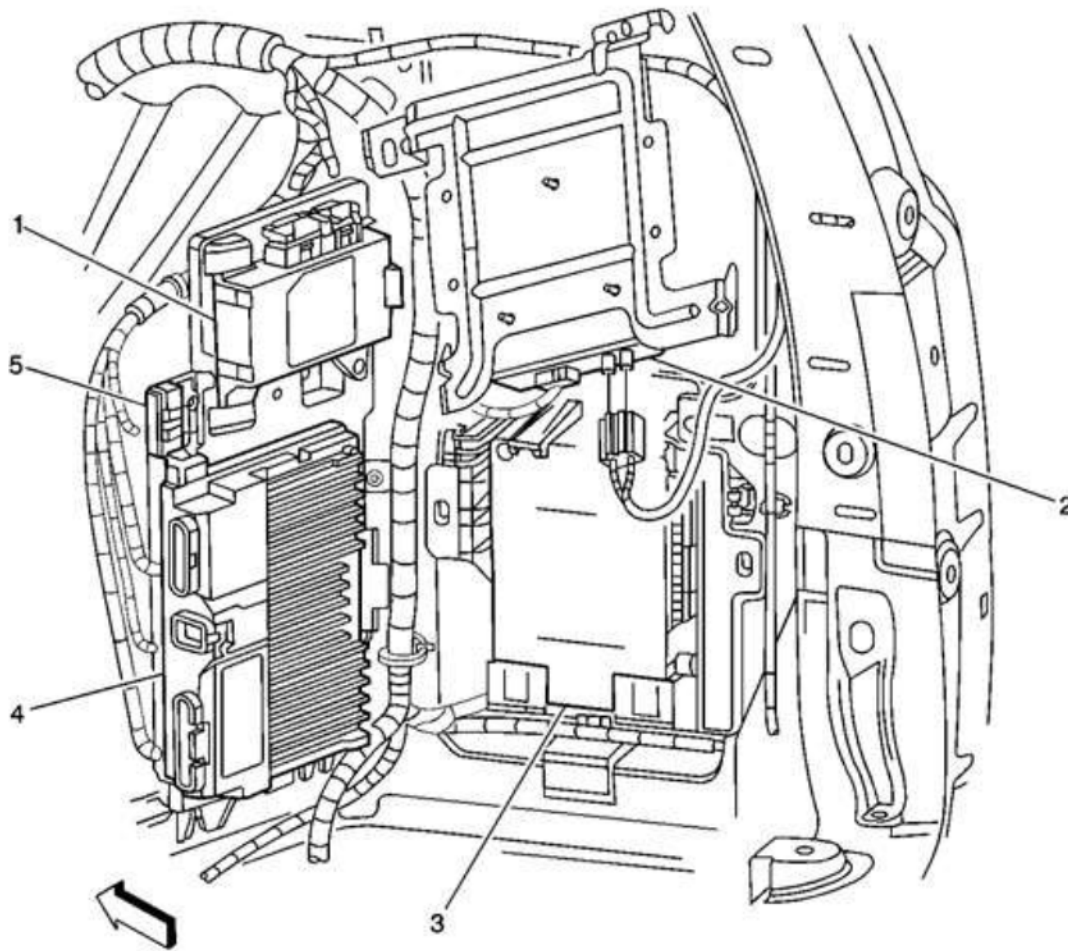


Fig. 15: Right Rear Of Vehicle Behind Trim Panel Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 15

Callout	Component Name
1	Rear Integration Module (RIM)
2	Digital Radio Receiver (U2K)
3	Vehicle Communication Interface Module (VCIM) (UE1)
4	Suspension Control Module (F55)
5	Liftgate Lock/Unlock Relay

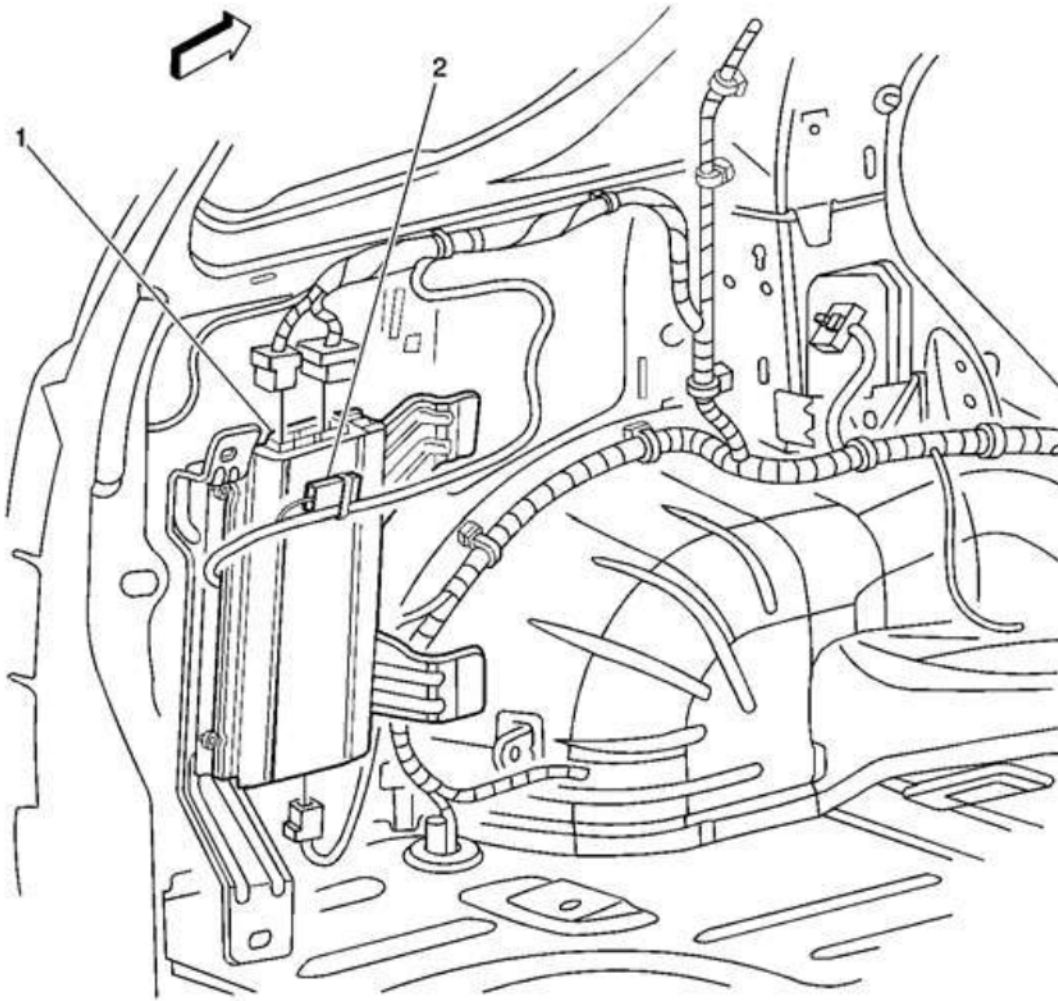


Fig. 16: Left Rear Of Vehicle Behind Trim Panel Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 16

Callout	Component Name
1	Audio Amplifier
2	Rear Parking Assist (RPA) Diagnostic Connector

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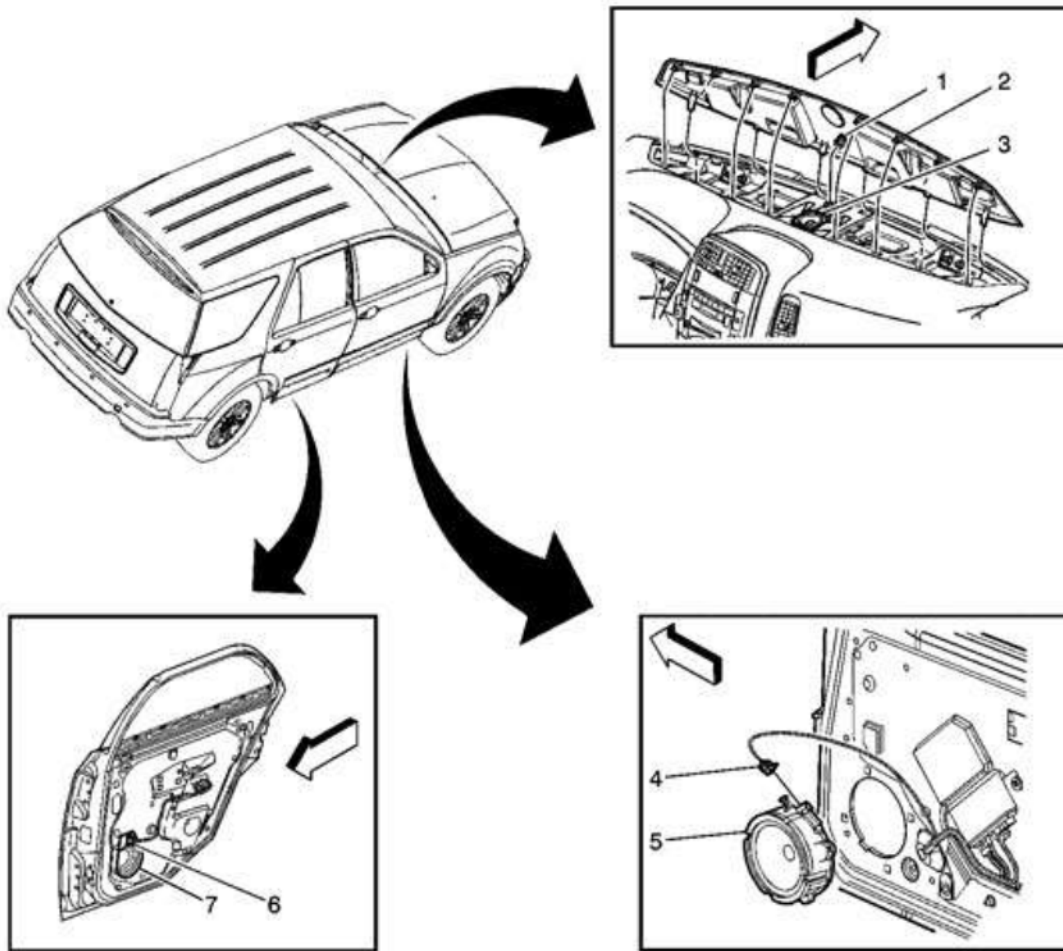


Fig. 17: I/P & Right Side Doors Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 17

Callout	Component Name
1	Sunload/Ambient Light Sensor
2	Defroster Grille
3	Speaker - Front Midrange (U57)
4	Speaker - RF Door Connector
5	Speaker - RF Door, LF Similar
6	Speaker - RR Door Connector
7	Speaker - RR Door, LR Similar

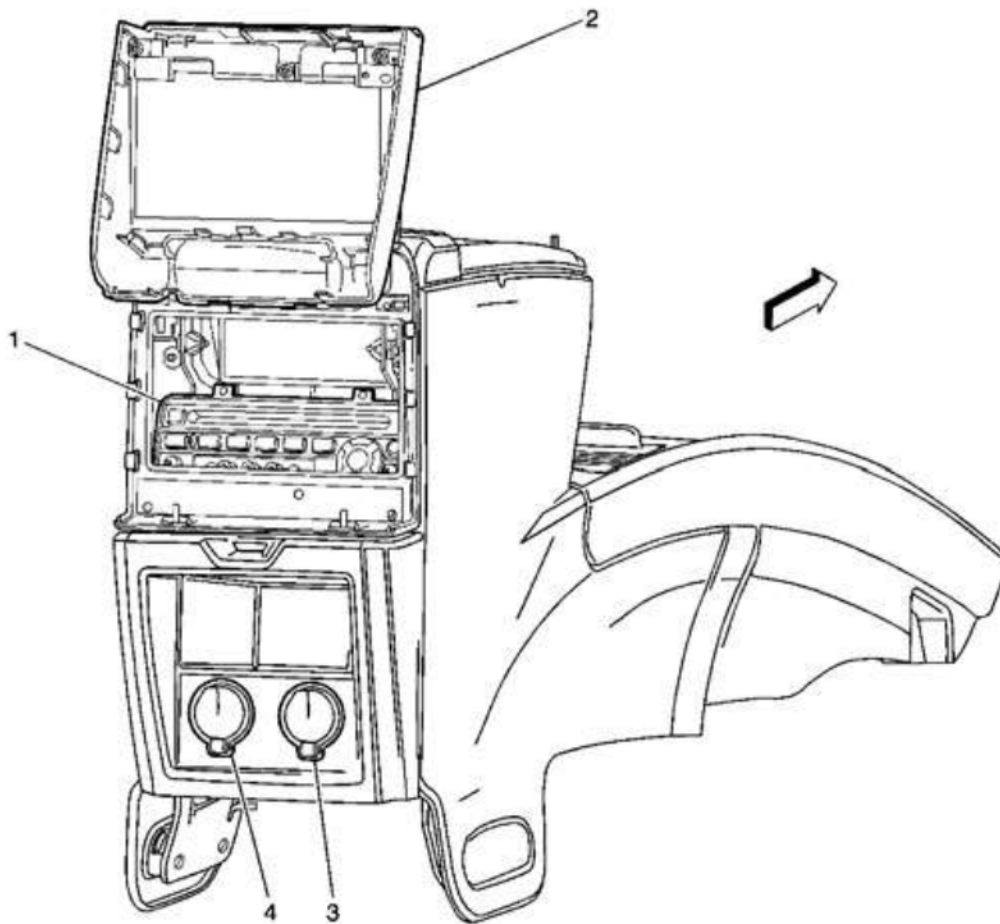


Fig. 18: Rear Of Center Console Component View
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 18

Callout	Component Name
1	Video Display (U42)
2	DVD Player (U42)
3	Auxiliary Power Outlet - Center Console 2 (U42)
4	Auxiliary Power Outlet - Center Console 1

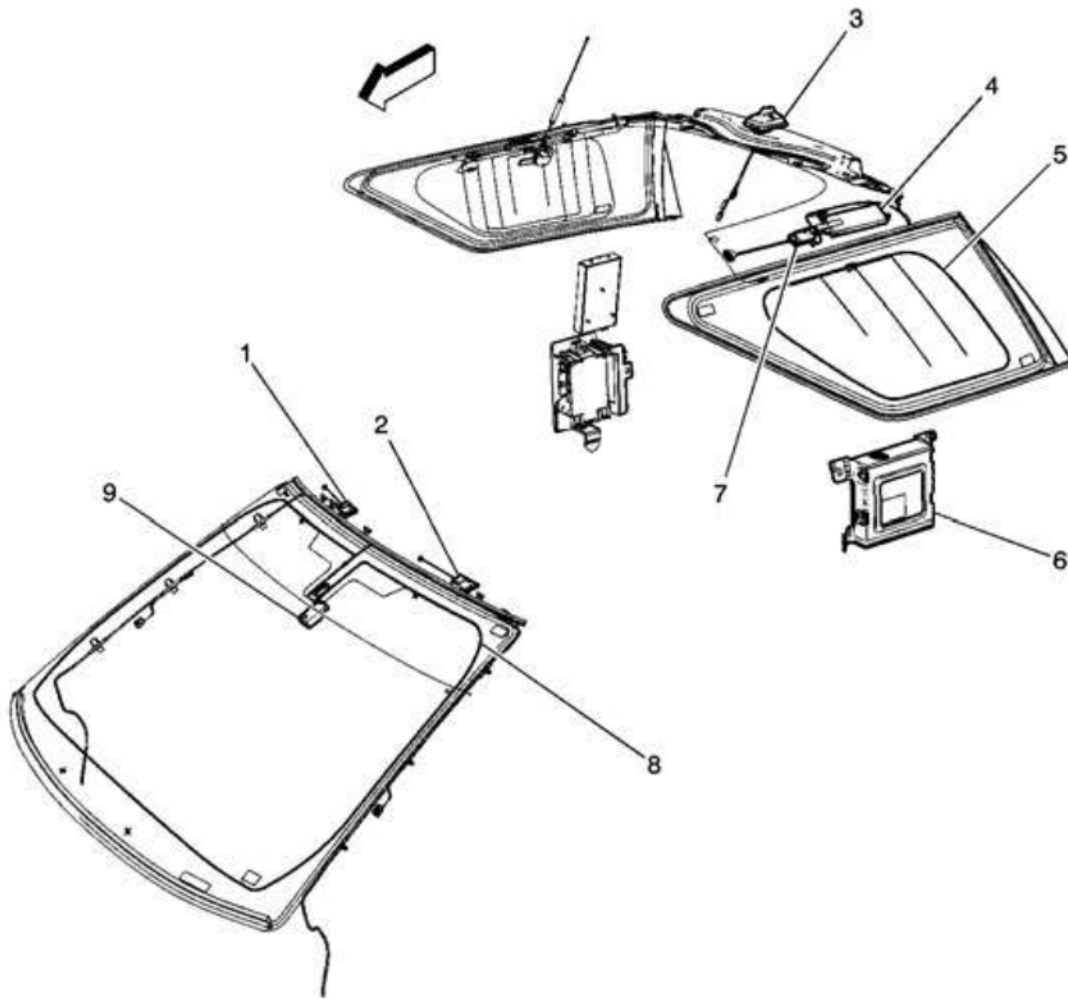


Fig. 19: Antenna Components (1 Of 2)
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 19

Callout	Component Name
1	RF Antenna Amplifier (U2X/U2Y)
2	LF Antenna Amplifier (U2X/U2Y)
3	Digital Radio Antenna (U2K)
4	Rear Window Antenna Module - Left
5	Rear Window Antenna Assembly - Left
6	TV Tuner (U2X/U2Y)
7	LR Antenna Amplifier (U2X/U2Y)

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8	Front Glass TV Antenna (U2X/U2Y)
9	Navigation Antenna (U2V/U2X/U2Y)

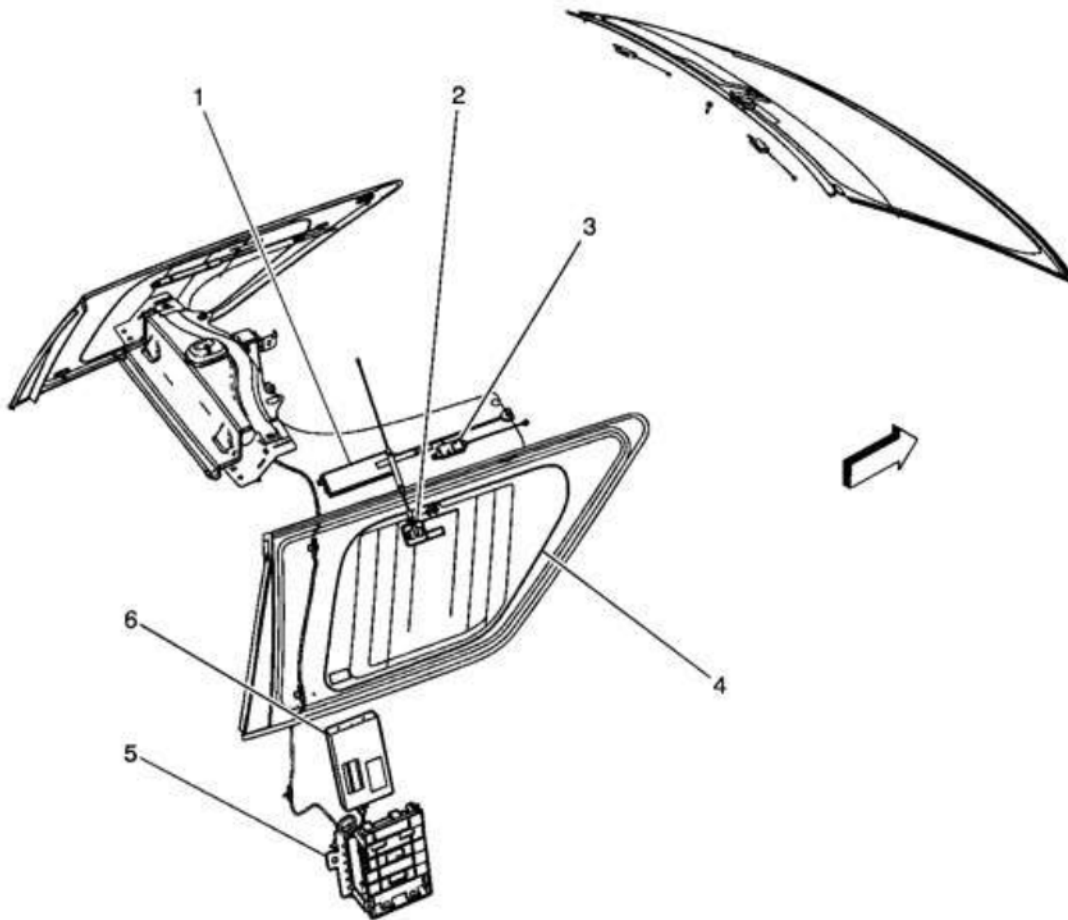


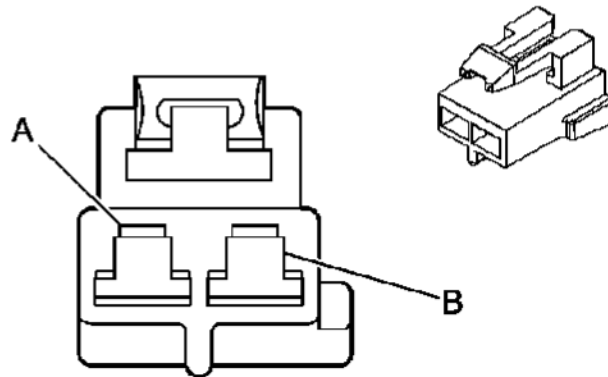
Fig. 20: Antenna Components (2 Of 2)
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 20

Callout	Component Name
1	Rear Window Antenna Module - Right
2	Cellular Antenna (UE1)
3	RR Antenna Amplifier (U2X/U2Y)
4	Rear Window Antenna Assembly - Right
5	Vehicle Communication Interface Module (VCIM) (UE1)
6	Digital Radio Receiver (U2K)

ENTERTAINMENT CONNECTOR END VIEWS

Audio Amplifier C1 (U66) Terminal Identification

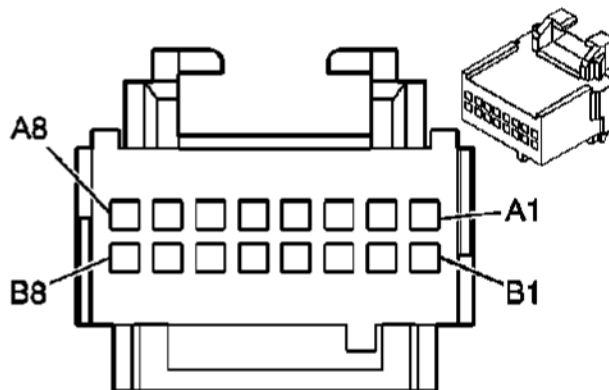


Connector Part Information

- 12064749
- 2-Way F Metri-Pack 480 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	BK/WH	851	Ground
B	RD/BK	1242	Battery Positive Voltage

Audio Amplifier C2 (U66) Terminal Identification



Connector Part Information

- 12084945
- 16-Way F Micro-Pack 100 Series (GY)

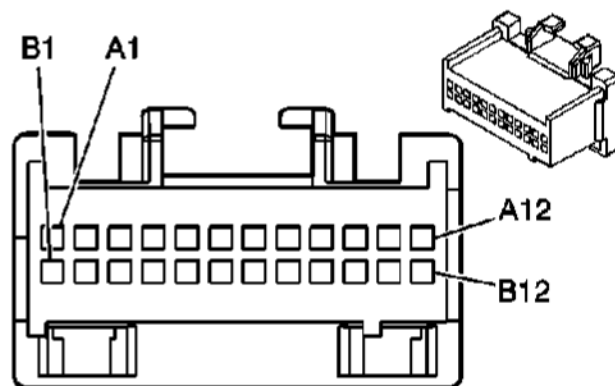
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Pin	Wire Color	Circuit No.	Function
A1-A2	-	-	Not Used
A3	D-GN	1953	Right Front Midrange Speaker Output (-)
A4	OG	1853	Right Front Midrange Speaker Output (+)
A5	OG	1955	Right Rear Midrange Speaker Output (-)
A6	TN	1855	Right Rear Midrange Speaker Output (+)
A7	WH	1959	Left Rear Midrange Speaker Output (-)
A8	TN	1859	Left Rear Midrange Speaker Output (+)
B1	D-BU	658	Cellular Telephone Voice Signal
B2	L-BU/BK	659	Cellular Telephone Voice Low Reference
B3-B8	-	-	Not Used

Audio Amplifier C3 (U66) Terminal Identification



Connector Part Information

- 12110088
- 24-Way F Micro-Pack 100 Series (GY)

Pin	Wire Color	Circuit No.	Function
A1	PU	1952	Right Front Tweeter Speaker Output (-)

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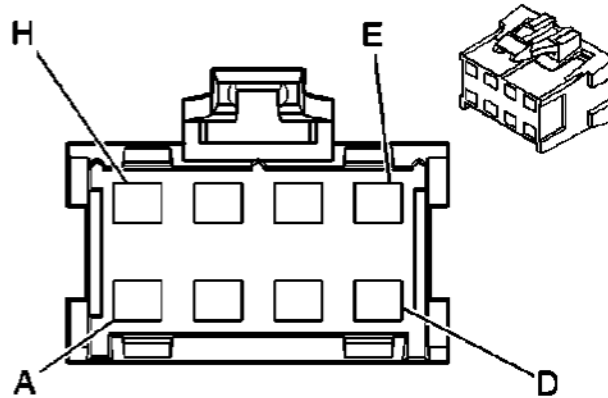
A2	L-GN	1852	Right Front Tweeter Speaker Output (+)
A3	TN	1856	Left Front Tweeter Speaker Output (+)
A4	YE	1956	Left Front Tweeter Speaker Output (-)
A5	D-BU	1857	Left Front Midrange Speaker Output (+)
A6	L-BU	1957	Left Front Midrange Speaker Output (-)
A7	D-BU/WH	346	Left Subwoofer Speaker Output (+)
A8	L-GN/BK	1794	Left Subwoofer Speaker Output (-)
A9	D-GN	1795	Right Subwoofer Speaker Output (+)
A10	L-BU/BK	315	Right Subwoofer Speaker Output (-)
A11-A12	-	-	Not Used
B1-B3	-	-	Not Used
B4	L-GN	1948	Right Front Low Level Audio Signal (-)
B5	L-GN	512	Right Front Low Level Audio Signal (+)
B6	D-GN	1947	Left Front Low Level Audio Signal (-)
B7	TN	511	Left Front Low Level Audio Signal (+)
B8-B10	-	-	Not Used
B11	PU	1807	Class 2 Serial Data
B12	-	-	Not Used

Audio Amplifier Terminal Identification - Bose C1 (U57)

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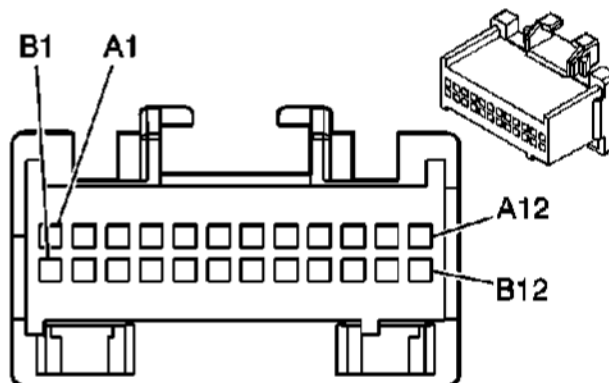


Connector Part Information

- 12110626
- 8-Way F Metri-Pack 280 Series, Flexlock (GY)

Pin	Wire Color	Circuit No.	Function
A	BK	850	Ground
B	D-BU/WH	346	Rear Subwoofer Speaker Output (+)
C-F	-	-	Not Used
G	L-GN/BK	1794	Rear Subwoofer Speaker Output (-)
H	RD/BK	1242	Battery Positive Voltage

Audio Amplifier Terminal Identification - Bose C2 (U57)



- 12110088

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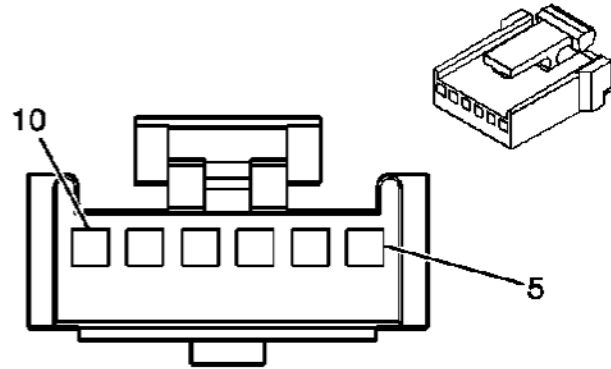
Connector Part Information		• 24-Way F Micro-Pack 100 Series (GY)	
Pin	Wire Color	Circuit No.	Function
A1	-	-	Not Used
A2	WH	1959	Left Rear Midrange Speaker Output (-)
A3	TN	1859	Left Rear Midrange Speaker Output (+)
A4	TN	1856	Left Front Tweeter Speaker Output (+)
A5	YE	1956	Left Front Tweeter Speaker Output (-)
A6	L-BU	1960	Front Center Speaker Output (-)
A7	YE	1860	Front Center Speaker Output (+)
A8	PU	1952	Right Front Tweeter Speaker Output (-)
A9	L-GN	1852	Right Front Tweeter Speaker Output (+)
A10	TN	1855	Right Rear Midrange Speaker Output (+)
A11	OG	1955	Right Rear Midrange Speaker Output (-)
A12	L-BU/BK	659	Cellular Telephone Voice Low Reference (UE1)
B1-B7	-	-	Not Used
B8	L-GN	1948	Right Front Low Level Audio Signal (-) (U2X/U2V/U2Y)
B9	D-GN	1947	Left Front Low Level Audio Signal (-) (U2X/U2V/U2Y)
B10	TN	511	Left Front Low Level Audio Signal (+) (U2X/U2V/U2Y)
B11	L-BU	512	Right Front Low Level Audio Signal (+) (U2X/U2V/U2Y)
B12	D-BU	658	Cellular Telephone Voice Signal (UE1)

Audio Amplifier Terminal Identification - Bose C3 (U57)

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Connector Part Information

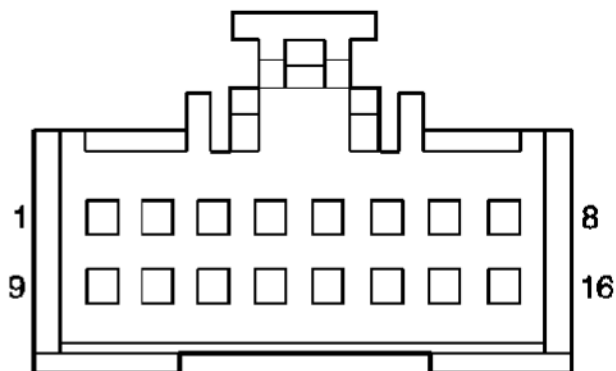
- 12064993
- 6-Way F Micro-Pack 100 Series (BK)

Pin	Wire Color	Circuit No.	Function
5	-	-	Not Used
6	PU	1807	Class 2 Serial Data (U57)
7	BARE	1489	Drain Wire (U57)
8	D-GN	1488	Noise Reduction Microphone Supply Voltage (U57)
9	WH	5343	Navigation Voice In (-) (U2V/U2X/U2Y)
10	YE	5342	Navigation Voice In (+) (U2V/U2X/U2Y)

CD Changer C1 (U2V/U2X/U2Y) Terminal Identification

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Connector Part Information

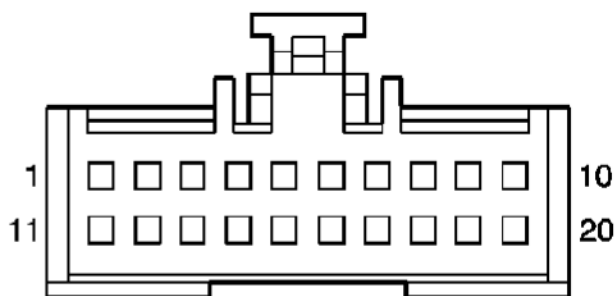
- 7123-7169
- 16-Way F Yazaki (WH)

Pin	Wire Color	Circuit No.	Function
1	BK/WH	851	Ground
2-4	-	-	Not Used
5	BN/WH	368	Remote Radio Right Audio Signal (U2K/U2L/U42)
6	BARE	5324	S B and Auxiliary Stereo Shield (U2K/U2L/U42)
7	PU	1807	Class 2 Serial Data (Primary)
8-9	-	-	Not Used
10	PU	1375	Steering Wheel Control Supply Voltage
11	D-BU	1796	Steering Wheel Controls Signal
12	-	-	Not Used
13	D-GN/WH	372	Remote Radio Audio Output (-) (U2K/U2L/U42)
14	TN/WH	367	Remote Radio Left Audio Signal (U2K/U2L/U42)
15	PU	1807	Class 2 Serial Data (Primary)
16	RD/WH	2240	Battery Positive Voltage

CD Changer C2 (U2V/U2X/U2Y) Terminal Identification

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Connector Part Information

- 7123-1403
- 20-Way F Yazaki (WH)

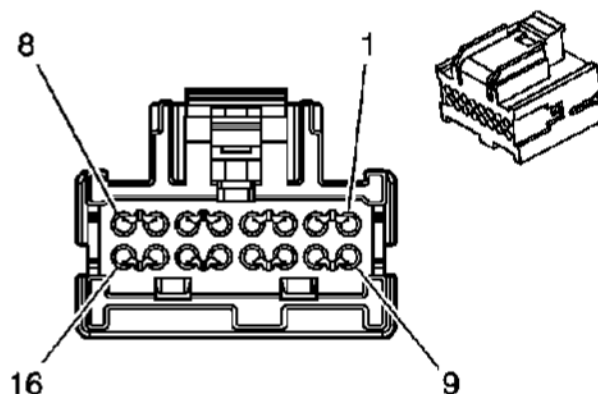
Pin	Wire Color	Circuit No.	Function
1	L-BU	5312	Remote Playback Device Left Audio Signal (U42)
2	L-GN	5313	Remote Playback Device Right Audio Signal (U42)
3	BARE	5315	RSA Shield (U42)
4	TN	511	Left Front Low Level Audio Signal (+) - Radio
5	L-BU	512	Right Front Low Level Audio Signal (+) - Radio
6	TN	511	Left Front Low Level Audio Signal (+) - Amplifier
7	L-BU	512	Right Front Low Level Audio Signal (+) - Amplifier
8	BARE	2012	Right Audio Shield
9	L-GN/WH	5337	TV Left Audio Signal (Export)
10	L-BU/WH	5338	TV Right Audio Signal (Export)
11	-	-	Not Used
12	BN	5314	Remote Playback Device Audio Common Signal (U42)
13	-	-	Not Used
14	D-GN	1947	Left Front Low Level Audio Signal (-) - Radio
15	L-GN	1948	Right Front Low Level Audio Signal (-)

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			) - Radio
16	D-GN	1947	Left Front Low Level Audio Signal (-) - Bose Amplifier
17	BARE	2011	Drain Wire - Bose Amplifier
18	L-GN	1948	Right Front Low Level Audio Signal (-) - Bose Amplifier
19	GY/BK	5339	TV Audio Common Signal (Export)
20	-	-	Not Used

Digital Radio Receiver (U2K) Terminal Identification

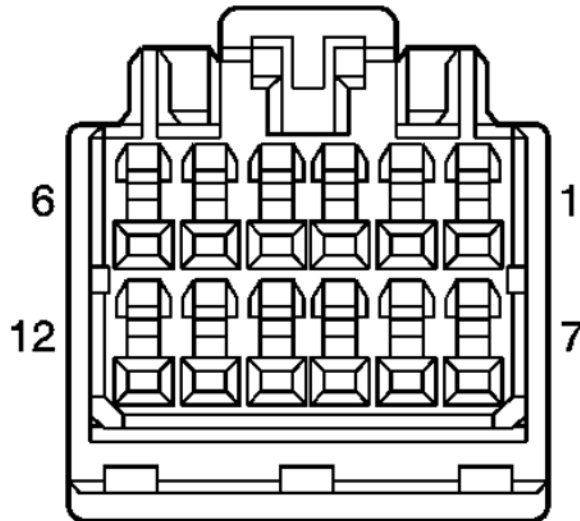


Connector Part Information		• 15394150 • 16-Way F Micro-Pack 64 Series (BK)	
Pin	Wire Color	Circuit No.	Function
1	-	-	Not Used
2	TN/WH	367	Remote Radio Left Audio Signal
3	BN/WH	368	Remote Radio Right Audio Signal
4-8	-	-	Not Used
9	BK	850	Ground
10	D-GN/WH	372	Remote Radio Audio Output (-)
11-14	-	-	Not Used
15	PU	1807	Class 2 Serial Data (Primary)
16	RD/WH	2240	Battery Positive Voltage (U2K)

DVD Player and Video Display Assembly C1 (U42) Terminal Identification

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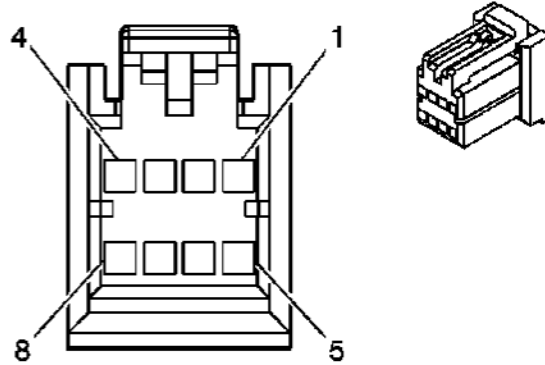


Connector Part Information		• 175965-2 • 12-Way F Amp 040 Mark II Series (BK)	
Pin	Wire Color	Circuit No.	Function
1	TN/WH	367	Remote Radio Left Audio Signal
2	BN/WH	368	Remote Radio Right Audio Signal
3	BARE	SHIELD	Drain Wire - Auxiliary Video Ground (U2V/U2X/U2Y)
4	-	-	Not Used
5	PU	1807	Class 2 Serial Data (Primary)
6	-	-	Not Used
7	D-GN/WH	372	Remote Radio Audio Common
8	-	-	Not Used
9	PU	COAX	Coax 4 - Auxiliary Video (+) (U2V/U2X/U2Y)
10	RD/WH	2240	Battery Positive Voltage
11	-	-	Not Used
12	BK	850	Ground

DVD Player and Video Display Assembly C2 (U42) Terminal Identification

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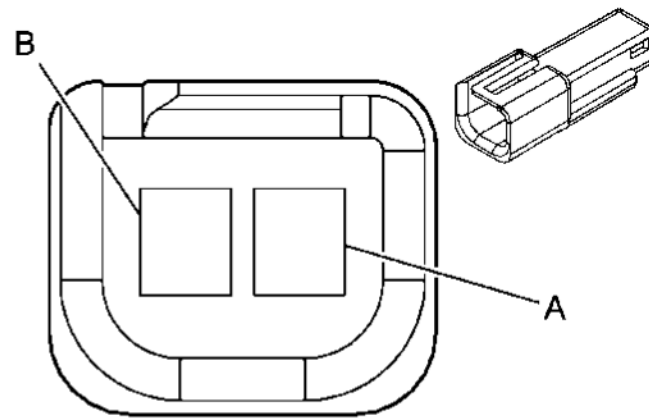


Connector Part Information		• 175964-2 • 8-Way F Amp 040 Mark II Series (BK)	
Pin	Wire Color	Circuit No.	Function
1	L-BU	5312	RSA Left Audio Signal (U2V/U2X/U2Y)
2	L-GN	5313	RSA Right Audio Signal (U2V/U2X/U2Y)
3	BK	SHIELD	Drain Wire- Antenna Navigation Screen (U2X/U2Y)
4	GY/BK	5339	TV Audio Common Signal (U2X/U2Y)
5	BN	5314	RSA Audio Common Signal (U2V/U2X/U2Y)
6	PU	COAX	TV Video (+) (U2X/U2Y)
7	L-GN/WH	5337	TV Left Audio Signal (U2X/U2Y)
8	L-BU/WH	5338	TV Right Audio Signal (U2X/U2Y)

Noise Compensation Microphone Terminal Identification

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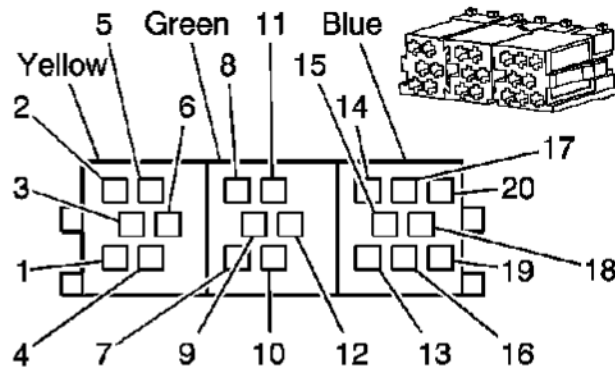


Connector Part Information

- 12047663
- 2-Way M Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	BARE	1489	Drain Wire
B	D-GN	1488	Noise Reduction Microphone Supply Voltage

Radio C1 (U2R/U2S) Terminal Identification



Connector Part Information

- 30220700
- 20-Way F (BU/GN/YE)

Pin	Wire Color	Circuit No.	Function
1-7	-	-	Not Used
8	PU	1807	Class 2 Serial Data
9-10	-	-	Not Used
11	PU	1807	Class 2 Serial Data

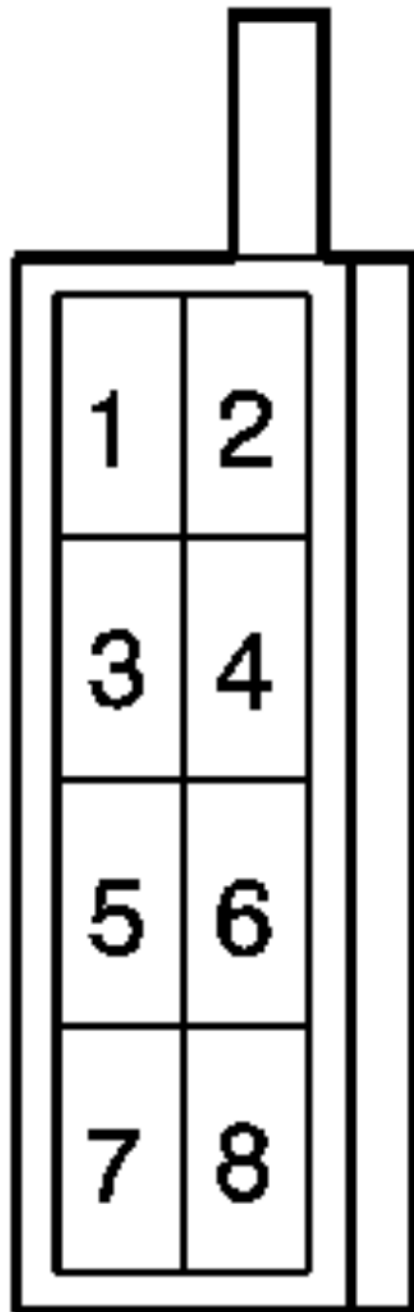
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12	-	-	Not Used
13	D-BU	1796	Steering Wheel Controls Signal
14-18	-	-	Not Used
19	OG	1486	FM Composite Signal
20	-	-	Not Used

Radio C2 (U2R/U2S) Terminal Identification

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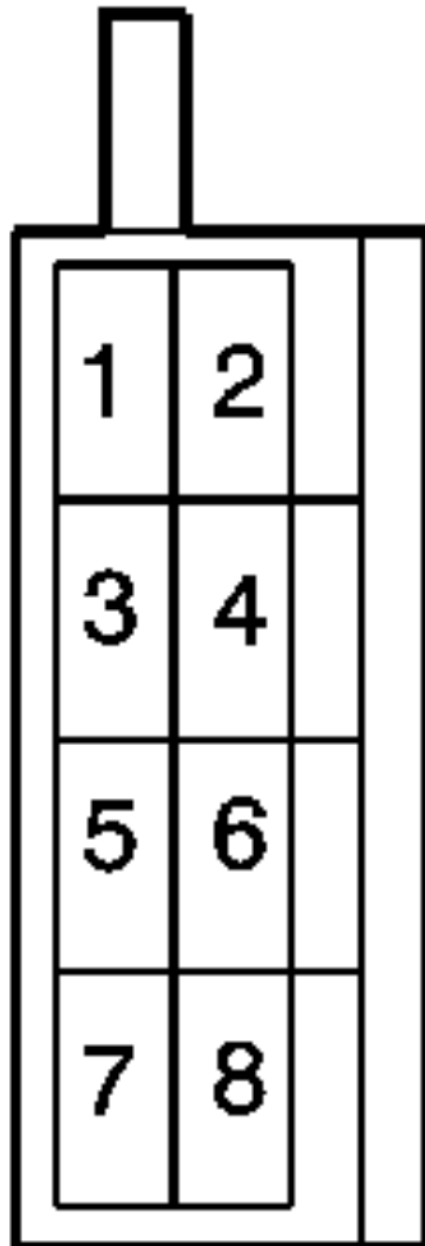


Connector Part Information		• 963121-1 • 8-Way F Junior Timer Type (BN)	
Pin	Wire Color	Circuit No.	Function
1	-	-	Not Used
2	PU	2012	Drain Wire
3	L-GN	512	Right Front Low Level Audio Signal (+)
4	L-GN	1948	Right Front Low Level Audio Signal (-)
5	TN	511	Left Front Low Level Audio Signal (+)
6	D-GN	1947	Left Front Low Level Audio Signal (-)
7	-	-	Not Used
8	BARE	2011	Drain Wire

Radio C3 (U2R/U2S) Terminal Identification

2004 Cadillac SRX

2004 ACCESSORIES & EQUIPMENT Entertainment - SRX



2004 Cadillac SRX

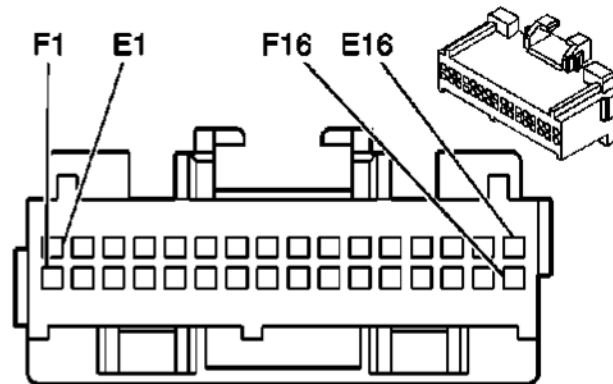
2004 ACCESSORIES & EQUIPMENT Entertainment - SRX

Connector Part Information

- 963120-1
- 8-Way F Junior Timer Type (GY)

Pin	Wire Color	Circuit No.	Function
1	BN/WH	368	Right Audio Signal (+)
2	PU	1375	Remote Radio Control Supply Voltage
3	D-GN/WH	372	Left Audio Signal (+)
4	TN/WH	367	Audio Common
5	-	-	Not Used
6	BARE	5324	Drain
7	RD/WH	2240	Battery Positive Voltage
8	BK/WH	851	Ground

Radio C1 (U2V/U2X/U2Y) Terminal Identification



Connector Part Information

- 12110115
- 32-Way F Micro-Pack 100 Series (BU)

Pin	Wire Color	Circuit No.	Function
E1-E3	-	-	Not Used
E4	OG	1486	FM Composite Signal
E5	-	-	Not Used
E6	PU	1807	Class 2 Serial Data (Primary)
E7	BK	SHIELD	Shield 1 (U2X/U2Y)
E8	PU	COAX	Coax 1 (U2X/U2Y)
E9-E11	-	-	Not Used

2004 Cadillac SRX**2004 ACCESSORIES & EQUIPMENT Entertainment - SRX**

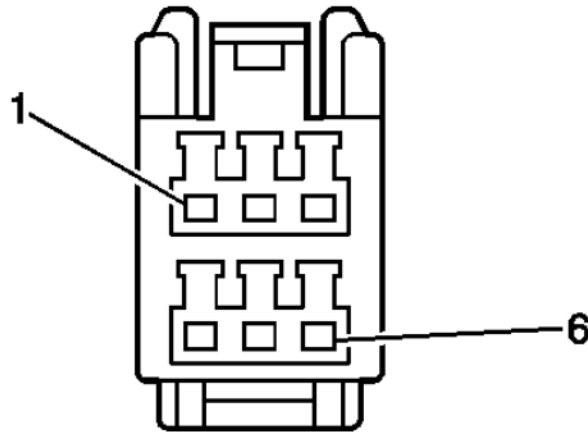
E12	TN	511	Left Front Low Level Audio Signal (+)
E13	D-GN	1947	Left Front Low Level Audio Signal (-)
E14	BARE	2011	Drain Wire
E15	BARE	2012	Drain Wire
E16	BK/WH	851	Ground
F1	RD/WH	2240	Battery Positive Voltage
F2	BN	818	Vehicle Speed Signal
F3-F5	-	-	Not Used
F6	PU	1807	Class 2 Serial Data (Primary)
F7	BK	SHIELD	Shield 3 (U42)
F8	PU	COAX	Coax 3 (U42)
F9-F10	-	-	Not Used
F11	BARE	5344	Shield
F12	YE	5342	Navigation Voice (+)
F13	WH	5343	Navigation Voice (-)
F14	L-GN	1948	Right Front Low Level Audio Signal (-)
F15	L-BU	512	Right Front Low Level Audio Signal (+)
F16	-	-	Not Used

Radio C2 (U2X) Terminal Identification

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Connector Part Information

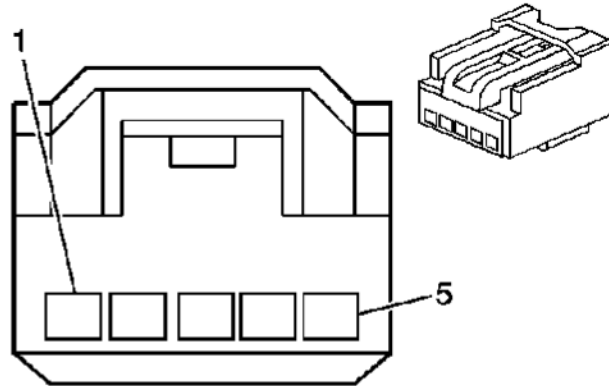
- 72835862
- 6-Way F 040-III/Class II Series Yazaki (NA)

Pin	Wire Color	Circuit No.	Function
1	-	-	Not Used
2	YE	5385	HIT 64 BUS Request
3	GY	5383	HIT 64 (+)
4	-	-	Not Used
5	BARE	514	HIT 64 Ground
6	BN	5384	HIT 64 (-)

Radio C3 (U2V/U2X/U2Y) Terminal Identification

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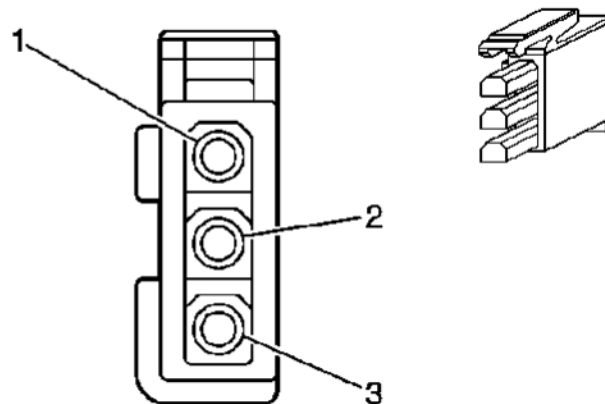


Connector Part Information

- 7283583030
- 5-Way F Yazaki (BK)

Pin	Wire Color	Circuit No.	Function
1	PK	5149	Cellular Microphone Signal (U2V)
	GY	655	Cellular Microphone Signal (U2X/U2Y)
2	PK/BK	5152	Cellular Microphone Low Reference (U2V)
	BARE	1782	Drain Wire (U2X/U2Y)
3-5	-	-	Not Used

Rear Window Antenna Module Terminal Identification - Left



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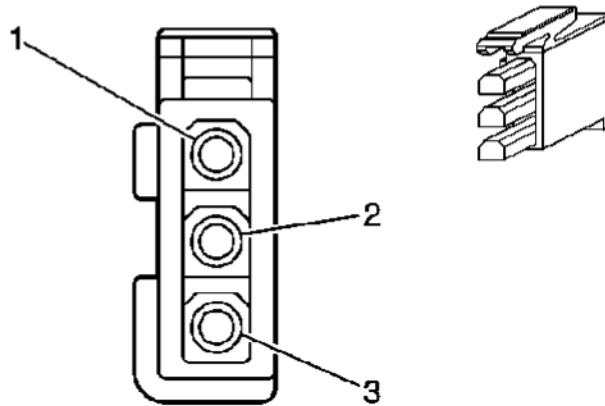
2004 ACCESSORIES & EQUIPMENT Entertainment - SRX

Connector Part Information

- 172165-1
- 3-Way F Micro-Pack (WH)

Pin	Wire Color	Circuit No.	Function
1	PU	1807	Class 2 Serial Data
2	RD/WH	3640	Battery Positive Voltage
3	-	-	Not Used

Rear Window Antenna Module Terminal Identification - Right



Connector Part Information

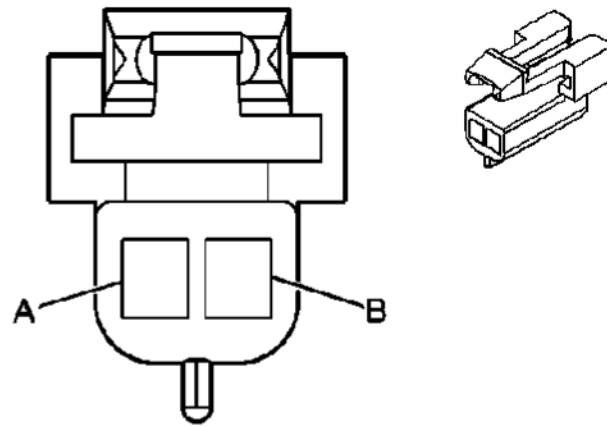
- 172165-1
- 3-Way F Micro-Pack (WH)

Pin	Wire Color	Circuit No.	Function
1	OG	1486	FM Composite Signal
2-3	-	-	Not Used

Speaker Terminal Identification - Left A Pillar Tweeter (U66)

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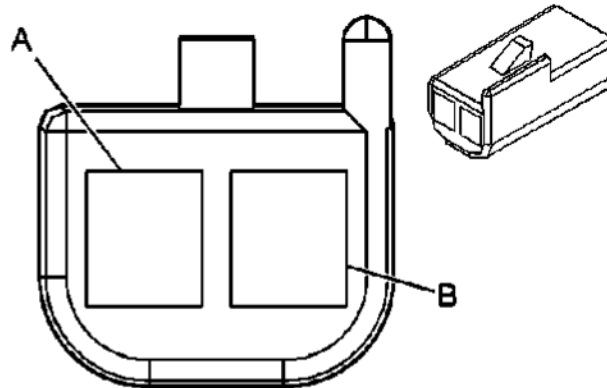


Connector Part Information

- 12052832
- 2-Way F Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	YE	1956	Left Front Tweeter Speaker Output (+)
B	TN	1856	Left Front Tweeter Speaker Output (+)

Speaker Terminal Identification - Left A Pillar Tweeter (U57)



Connector Part Information

- 12047662
- 2-Way F Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	YE	1956	Left Front Tweeter Speaker Output (+)

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2004 ACCESSORIES & EQUIPMENT Entertainment - SRX

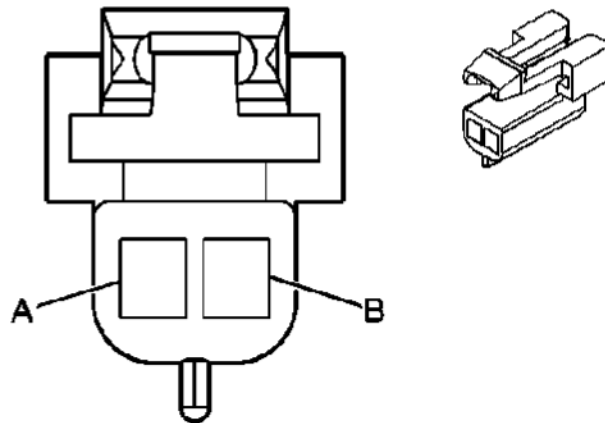
B

TN

1856

Left Front Tweeter Speaker Output (+)

Speaker Terminal Identification - Right A Pillar Tweeter (U66)

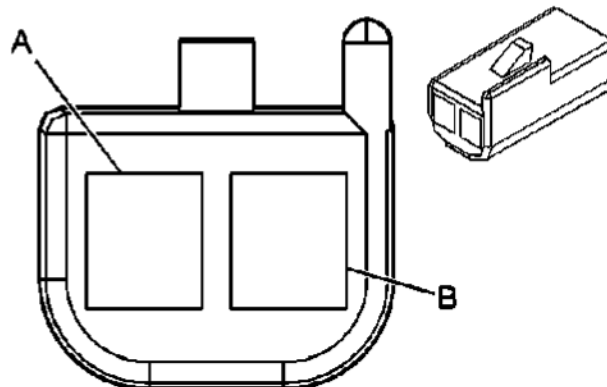


Connector Part Information

- 12052832
- 2-Way F Metri-Pack 150 Series (BK)

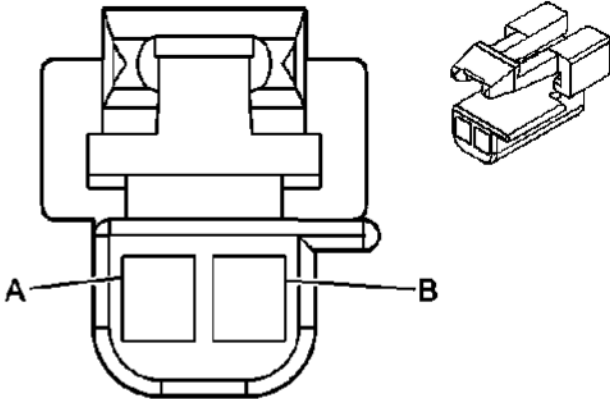
Pin	Wire Color	Circuit No.	Function
A	PU	1952	Right Front Tweeter Speaker Output (-)
B	L-GN	1852	Right Front Tweeter Speaker Output (+)

Speaker Terminal Identification - Right A Pillar Tweeter (U57)



Connector Part Information		• 12047662 • 2-Way F Metri-Pack 150 Series (BK)	
Pin	Wire Color	Circuit No.	Function
A	PU	1952	Right Front Tweeter Speaker Output (-)
B	L-GN	1852	Right Front Tweeter Speaker Output (+)

Speaker Terminal Identification - LF Door (U66)



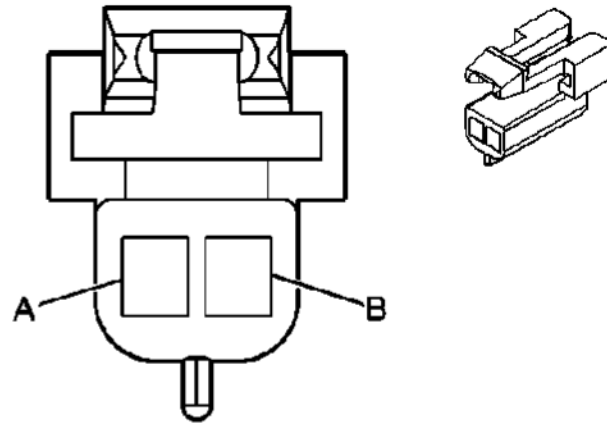
Connector Part Information		• 12064867 • 2-Way F Metri-Pack 150 Series (NA)	
Pin	Wire Color	Circuit No.	Function
A	L-BU	1957	Left Front Midrange Speaker Output (-)
B	D-BU	1857	Left Front Midrange Speaker Output (+)

Speaker Terminal Identification - LF Door (U57)



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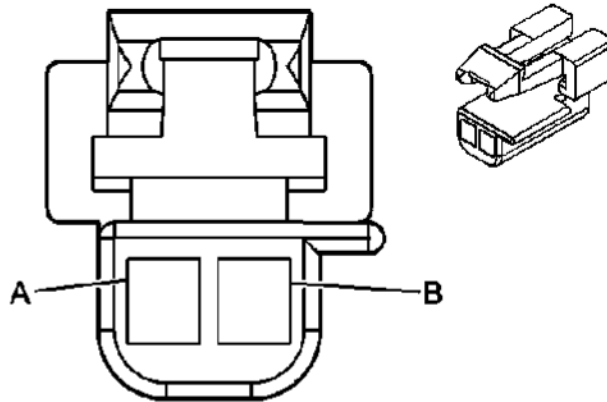


Connector Part Information

- 12052832
- 2-Way F Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	YE	1956	Left Front Tweeter Speaker Output (-)
B	TN	1856	Left Front Tweeter Speaker Output (+)

Speaker Terminal Identification - RF Door (U66)



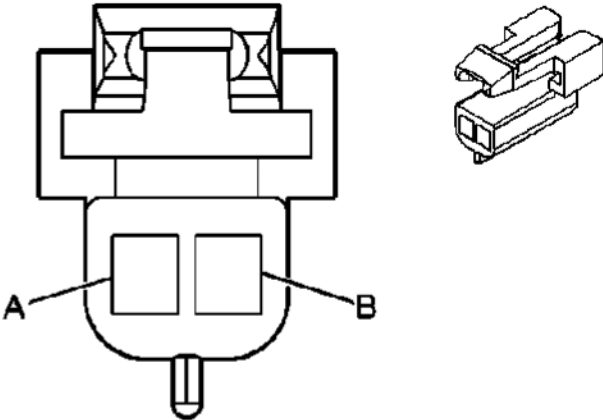
Connector Part Information

- 12064867
- 2-Way F Metri-Pack 150 Series (NA)

Pin	Wire Color	Circuit No.	Function
			Right Front Midrange Speaker Output

A	D-GN	1953	(-)
B	OG	1853	Right Front Midrange Speaker Output (+)

Speaker Terminal Identification - RF Door (U57)



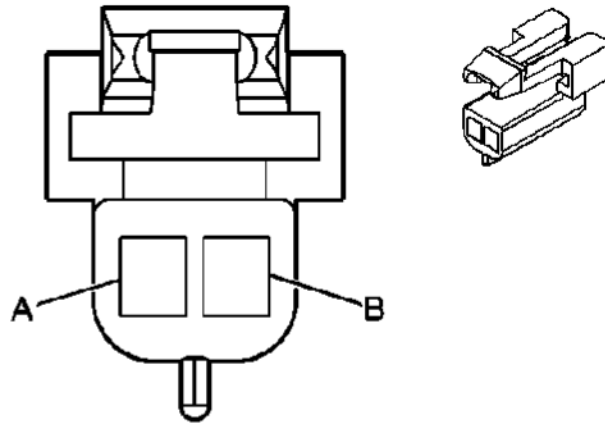
Connector Part Information		12052832 2-Way F Metri-Pack 150 Series (BK)	
Pin	Wire Color	Circuit No.	Function
A	PU	1952	Right Front Tweeter Speaker Output (-)
B	L-GN	1852	Right Front Tweeter Speaker Output (+)

Speaker Terminal Identification - LR Door

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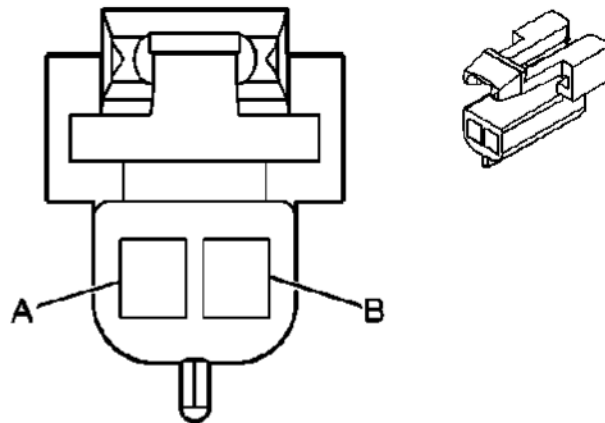


Connector Part Information

- 12052832
- 2-Way F Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	WH	1959	Left Rear Midrange Speaker Output (-)
B	TN	1859	Left Rear Midrange Speaker Output (+)

Speaker Terminal Identification - RR Door



Connector Part Information

- 12052832
- 2-Way F Metri-Pack 150 Series (BK)

Pin	Wire Color	Circuit No.	Function
A	OG	1955	Right Rear Midrange Speaker Output (-)
B	TN	1855	Right Rear Midrange Speaker Output (+)

Speaker Terminal Identification - Front Midrange (U57)

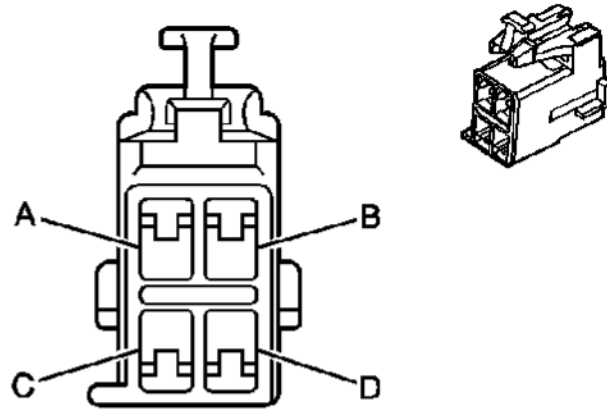
Connector Part Information		12047662 2-Way F Metri-Pack 150 Series (BK)	
Pin	Wire Color	Circuit No.	Function
A	L-BU	1960	Front Center Speaker Output (-)
B	YE	1860	Front Center Speaker Output (+)

Speaker Terminal Identification - Rear Subwoofer (U57)

Empty space for Rear Subwoofer terminal identification			
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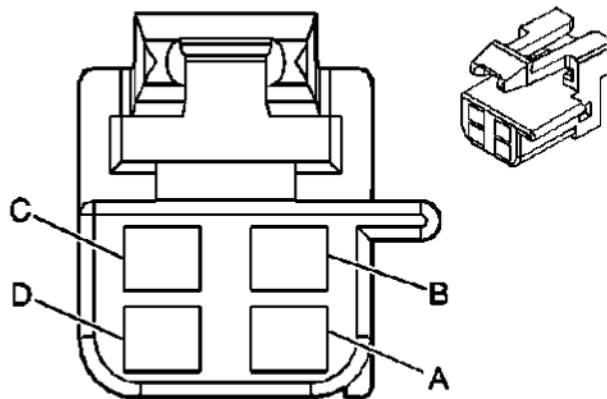


Connector Part Information

- 12129136
- 4-Way F Metri-Pack 280 Series Flexlock (BK)

Pin	Wire Color	Circuit No.	Function
A	D-BU/WH	346	Subwoofer Speaker Output (+)
B	L-GN/BK	1794	Subwoofer Speaker Output (-)
C-D	-	-	Not Used

Speaker Terminal Identification - Rear Subwoofer (U66)



Connector Part Information

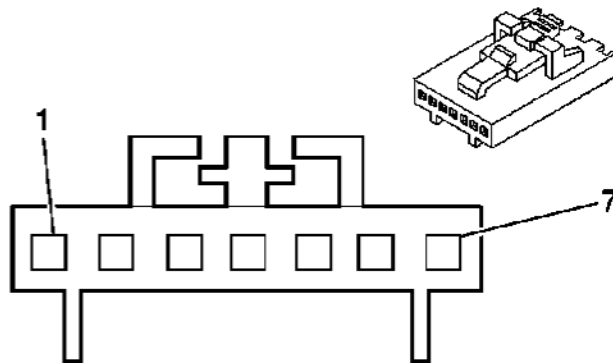
- 12064760
- 4-Way F Metri-Pack 150 Series (BK)

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Pin	Wire Color	Circuit No.	Function
A	L-GN/BK	1794	Left Subwoofer Speaker Output (-)
B	D-BU/WH	346	Left Subwoofer Speaker Output (+)
C	L-BU/BK	315	Right Subwoofer Speaker Output (-)
D	D-GN	1795	Right Subwoofer Speaker Output (+)

Steering Wheel Controls Terminal Identification - Left



Connector Part Information

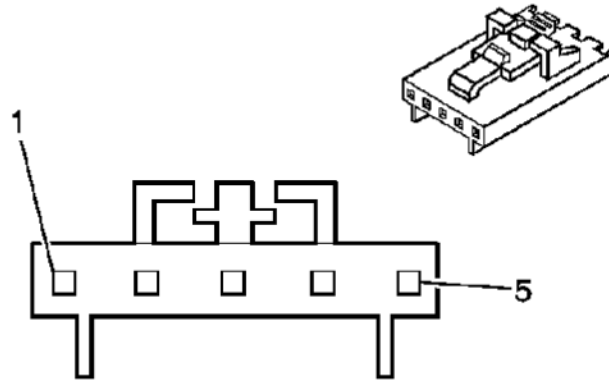
- 50-57-9407
- 7-Way F Molex (BK)

Pin	Wire Color	Circuit No.	Function
1	PU	1375	Remote Radio Control Supply Voltage
2	BK	350	Ground
3	YE	1491	Backlight Lamps Control
4	D-BU	1796	Steering Wheel Controls Signals
5	D-GN	1796	Steering Wheel Controls Signal
6-7	-	-	Not Used

Steering Wheel Controls Terminal Identification - Right

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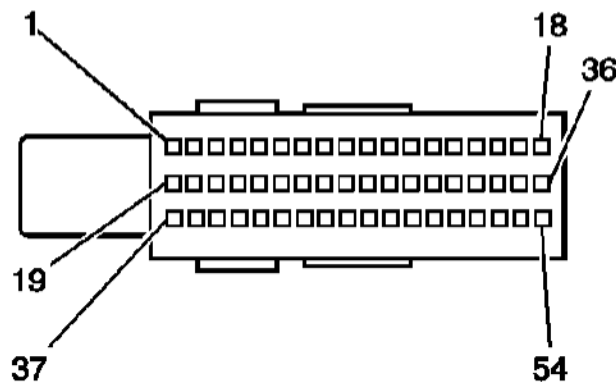


Connector Part Information

- 50-57-9405
- 5-Way F Molex (BK)

Pin	Wire Color	Circuit No.	Function
1	D-GN	1796	Steering Wheel Controls Signal
2	BK	350	Ground
3	YE	1491	Backlight Lamps Control
4	D-BU	1796	Steering Wheel Controls Signal
5	-	-	Not Used

TV Tuner Module (U2Y/U2X) Terminal Identification



Connector Part Information

- V23540-B1054-Y10
- 54-Way F Siemens (BK)

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Pin	Wire Color	Circuit No.	Function
1	-	-	Not Used
2	PU	1807	Class 2 Serial Data (Primary)
3-4	-	-	Not Used
5	L-BU/WH	5338	TV Right Audio Signal
6	GY/BK	5339	TV Audio Common Signal
7	L-GN/WH	5337	TV Left Audio Signal
8	-	-	Not Used
9	BARE	5345	Drain Wire
10-12	-	-	Not Used
13	PU	COAX	Video Out
14	BK	SHIELD	TV Antenna Shield
15-18	-	-	Not Used
19	BK/WH	851	Ground
20	RD/WH	3240	Battery Positive Voltage
21-22	-	-	Not Used
23	L-BU/WH	5338	TV Right Audio Signal (U42)
24	BARE	5345	Drain Wire (U42)
25	GY/BK	5339	TV Audio Common Signal (U42)
26	L-GN/WH	5337	TV Left Audio Signal (U42)
27-29	-	-	Not Used
30	PU	COAX	TV Video (U42)
31	BK	SHIELD	TV Video Ground (U42)
32-54	-	-	Not Used

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC STARTING POINT - ENTERTAINMENT

Begin the system diagnosis with the **Diagnostic System Check - Entertainment System** . The Diagnostic System Check will provide the following information:

- The identification of the control modules which command the system.
- The ability of the control modules to communicate through the serial data circuit.
- The identification of any stored diagnostic trouble codes (DTCs) and their status.

The use of the Diagnostic System Check will identify the correct procedure for diagnosing the

system and where the procedure is located.

DIAGNOSTIC SYSTEM CHECK - ENTERTAINMENT SYSTEM

Test Description

The numbers below refer to the step numbers on the diagnostic table.

2: Lack of communication may be due to a partial malfunction of the class 2 serial data circuit or due to a total malfunction of the class 2 serial data circuit. The specified procedure will determine the particular condition.

4: Lack of communication may be due to a partial malfunction of the class 2 serial data circuit or due to a total malfunction of the class 2 serial data circuit. The specified procedure will determine the particular condition.

6: The symptom list in Symptoms will determine the correct diagnostic procedure to use.

7: The presence of DTCs which begin with "U" indicate some other module is not communicating. The specified procedure will compile all the available information before tests are performed.

Diagnostic System Check - Entertainment System

Step	Action	Yes	No
1	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. Does the scan tool power up?	Go to Step 2	Go to <u>Scan Tool Does Not Power Up</u> in Data Link Communications
2	Attempt to establish communication with the following: • Amplifier • Radio • CDX/DVD (U2V or U2X) • Dash Integration Module (DIM) • Digital Radio Receiver (DRR), if equipped • Driver antenna module.		Go to <u>Scan Tool Does Not Communicate with Class 2 Device</u> in Data

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	Does the scan tool communicate with all devices present?	Go to Step 3	Link Communications
3	Is the vehicle equipped with rear seat entertainment RPO U42?	Go to Step 4	Go to Step 5
4	Use the scan tool class 2 message monitor to communicate with the disc player and video display (DPVD). Does the scan tool communicate with the DPVD?	Go to Step 5	Go to <u>Scan Tool Does Not Communicate with Class 2 Device</u>
5	IMPORTANT: The engine may start during the following step. Turn OFF the engine as soon as you have observed the Crank power mode. 1. Access the Class 2 Power Mode in the Diagnostic Circuit Check on the scan tool. 2. Rotate the ignition switch through all positions while observing the Ignition Switch Power Mode parameter. Does the Ignition Switch parameter reading match the ignition switch position for all switch positions?	Go to Step 6	Go to <u>Power Mode Mismatch</u> in Body Control System
6	Select the following display DTC functions on the scan tool: • Radio • Dash Integration Module (DIM) • Digital Radio Receiver (DRR), if equipped Does the scan tool display any DTCs?	Go to Step 7	Go to <u>Symptoms - Entertainment</u>
7	Does the scan tool display any DTCs which begin with a "U"?	Go to <u>Scan Tool Does Not Communicate with Class 2 Device</u> in Data	

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		Link Communications	Go to Step 8
8	Does the scan tool display DTC B1000, B1004, B1007, or B1009?	Go to <u>Diagnostic Trouble Code (DTC) List</u> in Body Control Systems	Go to Step 9
9	Does the scan tool display DTC B1327?	Go to <u>Diagnostic Trouble Code (DTC) List</u> in Engine Electrical	Go to <u>Diagnostic Trouble Code (DTC) List</u>

SCAN TOOL OUTPUT CONTROLS

Bose Amplifier Scan Tool Output Control

Scan Tool Output Control	Additional Menu Selection(s)	Description
Center I/P Mid Range	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Chime Test	N/A	Commanding the chime ON will sound the requested chime.
LF Tweeter - Door	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
LR Full Range	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Rear Subwoofer	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
RF Tweeter - Door	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.

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RR Full Range	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
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Delco Amplifier Scan Tool Output Control

Scan Tool Output Control	Additional Menu Selection(s)	Description
Left Front Full Range	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Left Front Tweeter	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Left Rear Full Range	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Rear Subwoofer Coil 1	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Rear Subwoofer Coil 2	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Right Front Full Range	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Right Front Tweeter	Front Speakers	Commanding the speaker ON will turn off all speakers except this speaker. Commanding the speaker OFF will turn off all speakers.
Right Rear Full	Rear Speakers	Commanding the speaker ON will turn off all speakers except this speaker.

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Range	Commanding the speaker OFF will turn off all speakers.
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Radio Scan Tool Output Control

Scan Tool Output Control	Additional Menu Selection(s)	Description
Dimming Delay (U2R/U2S)	Set Options	This function is used to set the delay of radio dimming, in relation to other displays, when the park lamps are turned on or off
Export ID (U2R/U2S)	Set Options	This function is used to identify the vehicle as an export vehicle.
Language (U2R/U2S)	Set Options	This function is used to set the language shown on the vehicle displays.
Nav. Radio Theft (U2V/U2X)	-	This function is used to clear radio theft information and learn a new VIN.
Optional Modules (U2R/U2S)	Set Options	This function is used to setup the radio to use OnStar.
Region Code Options (U2R/U2S)	Set Options	This function is used to set the region of the world that the radio is to be used in.
Seek/Scan Sensitivity Levels (U2R/U2S)	Set Options	This function is used to adjust pass A and pass B stop levels.
Vehicle Type (U2R/U2S)	Set Options	This function is used to select the appropriate vehicle type.
VIN Relearn (U2R/U2S)	-	This function is used to clear radio theft information and learn a new VIN.

SCAN TOOL DATA LIST**Radio**

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Operating Conditions: Ignition ON, Engine OFF, Radio ON			
8 Digit GM Part Number	ID Information	Numeric 8 - Digits	Varies
AM Distant Stop Level	Radio Information	dBuV	32 dBuV
	Radio		

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AM Local Stop Level	Information	dBuV	28 dBuV
AM Signal Strength	Radio Information	dBuV	50 dBuV
Auto. Volume Control	System Configuration	Active/ Inactive	Active
Band Number	Radio Information	AM/FM1/FM2	FM1
Build Sequence Number	ID Information	Numeric 4 - Digits	Varies
Calibration ID	ID Information	Numeric 4 - Digits	Varies
CD Changer	System Configuration	Connected/ Not Connected	Connected
Channel Number	Radio Information	Numeric	Varies
Clock	System Configuration	12 Hr/24 Hr	12 Hr
Driver Number	System Configuration	Driver 1/ Driver 2	Driver 1
DSP Selected	System Configuration	Varies	Spacious
FM Distance Stop Level	Radio Information	dBuV	32 dBuV
FM Local Stop Level	Radio Information	dBuV	24 dBuV
Ign. Cycles Since Last	Radio Information	Numeric	1
Julian Date of Build	ID Information	Numeric 3 - Digits	065
Language	System Configuration	Varies	English
Long Wave Status	System Configuration	Varies	Not Present
Manufacturing Shift Inf	ID Information	Varies	1
Manufacturing Site	ID Information	Varies	D
New VIN Counter	Radio Information	Numeric	1
Point of Sale	System Configuration	Varies	US
	System		

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Preset Settings	Configuration	Home/Away	Home
PROM ID	ID Information	Numeric	322754
PROM ID for Audio	ID Information	Numeric	0714
PROM ID for Navigation	ID Information	Numeric	0103
Radio Audio Software Version	ID Information	Varies	Varies
Radio Type	System Configuration	Varies	Level 2
Region Code	System Configuration	Varies	North America
Signal Strength for TV	Radio Information	dBuV	50 dBuV
Signal Strength for Rad	Radio Information	dBuV	50 dBuV
Source Selected	System Configuration	Off/Tuner/CD/DVD/CDX	Tuner
Theft Armed	Radio Information	No VIN/Learned VIN	Learned VIN
Theft Lock	System Configuration	Active/ Inactive	Inactive
Total CD Hours	Radio Information	Hours	Varies
Total CD/DVD Hours	Radio Information	Hours	Varies
Total Radio Hours	Radio Information	Hours	Varies
Year Module Built	ID Information	Numeric 4 - Digit Year	2003

Bose Amplifier

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Operating Conditions: Ignition ON, Engine OFF, Radio ON			
8 Digit GM Part Number	ID Information	Numeric 8 - Digits	varies
Auto Volume Control	Outputs	On/Off	Off
Balance Control	Data	Counts	varies
Bass Control	Data	Counts	varies
Battery Voltage	Data	Volts	12.5 Volts

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Calibration ID	ID Information	Numeric 4 - Digits	varies
Center Mid Range Speaker	Outputs	On/Off	On
DSP Selected	Outputs	OFF/Talk/Driver Seat/Rear Seat/Spacious	Off
Fade Control	Data	Counts	varies
Ignition Counter	Data	Numeric	2
Julian Date of Build	ID Information	Numeric 3 - Digits	varies
LF Tweeter - Door	Outputs	On/Off	On
LR Full Range	Outputs	On/Off	On
Microphone High	Data	Numeric	0
Microphone Low	Data	Numeric	10
Mid Control	Data	Counts	varies
Mono Volume Control	Data	Counts	varies
Mute	Outputs	On/Off	Off
Phone Active	Inputs	Active/Inactive	Inactive
PROM ID	ID Information	Numeric 4 - Digits	varies
Radio Left Channel	Inputs	On/Off	On
Radio Right Channel	Inputs	On/Off	On
Rear Subwoofer	Outputs	On/Off	On
RF Tweeter - Door	Outputs	On/Off	On
RR Full Range	Outputs	On/Off	On
Treble Control	Data	Counts	varies
Volume Control	Data	Counts	varies
Year Module Built	ID Information	Numeric 4 - Digit Year	2001

Delco Amplifier

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Operating Conditions: Ignition ON, Engine OFF, Radio ON			
8 Digit GM Part Number	ID Information	Numeric 8 - Digits	varies
Balance Control	Data	Counts	varies
Bass Control	Data	Counts	varies
Battery Voltage	Data	Volts	12.5 Volts
Calibration ID	ID Information	Numeric 4 - Digits	varies

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Component Serial No. 12	ID Information	Numeric	varies
Component Serial No. 8 - 11	ID Information	Numeric	varies
Fade Control	Data	counts	varies
Julian Date of Build	ID Information	Numeric 3 - Digits	varies
Mid Control	Data	Counts	varies
Mono Volume Control	Data	Counts	varies
Mute Button	Outputs	On/Off	Off
Phone Active	Inputs	Active/Inactive	Inactive
PROM ID	ID Information	Numeric 4 - Digits	varies
Tone Generator	Data	On/Off	Off
Treble Control	Data	Numeric 0 - 255	varies
Volume Control	Data	Counts	varies
Year Module Built	ID Information	Numeric 4 - Digit Year	2001

Digital Radio Receiver

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Operating Conditions: Ignition ON/Engine OFF/Radio ON			
8-Digit GM Part Number	ID Information/Module Information	Numeric	Varies
Battery Voltage	Data	Volts	Varies
Component Serial Number	ID Information/Module Information	Numeric	Varies
Day	ID Information/DSP Software Version ID	Numeric	Varies
Day	ID Information/XM Software Version ID	Numeric	Varies
Digital Radio Antenna	Data	Millivolts or Milliamps	Varies
Ignition Counter	Data	Numeric	Varies
	ID		

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Month	Information/DSP Software Version ID	Numeric	Varies
Month	ID Information/XM Software Version ID	Numeric	Varies
Power Mode	Data	Alphanumeric	Run
Radio ID	ID Information/Module Information	Numeric	Varies
Software Version	ID Information/DSP Software Version ID	Numeric	Varies
Software Version	ID Information/XM Software Version ID	Numeric	Varies
Year	ID Information/DSP Software Version ID	Numeric	Varies
Year	ID Information/XM Software Version ID	Numeric	Varies

SCAN TOOL DATA DEFINITIONS**8-Digit GM Part Number**

The scan tool displays an 8 digit alphanumeric number. The part number of the module.

AM Distant Stop Level

This is the stopping level for the seek/scan feature when set to distant mode.

AM Local Stop Level

This is the stopping level for the seek/scan feature when set to local mode.

Auto Volume Control

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The scan tool displays On/Off. The state of the auto volume control function.

Balance Control

The scan tool displays 0-255 counts. The amount of left to right balance selected.

Band Number

The scan tool displays AM/FM1/FM2. The current band that the radio is in.

Bass Control

The scan tool displays 0-255 counts. The amount of bass selected.

Battery Voltage

The scan tool displays 0-25.5 volts. The voltage measured from the modules battery positive voltage circuit to the modules ground circuit.

Build Sequence Number

The scan tool displays the sequence of build of the radio.

Calibration ID

The scan tool displays 0-9999. The number designating what calibrations the radio contains.

CD Changer

The scan tool displays Connected/Not Connected. This indicates the presence of a CD changer.

Center Mid Range Speaker

The scan tool displays On/Off. The state of the speaker output.

Channel Number

The scan tool displays 0-99. The number designates the current channel selected.

Clock

The scan tool displays 12 Hr or 24 Hr.

Component Serial Number

The scan tool displays the serial number of the module.

Component Serial No. 12

The scan tool displays 0-9. The second portion of the serial number.

Component Serial No. 8-11

The scan tool displays 0-9999. The first portion of the serial number.

Day

The scan tool displays the day the software was created.

Digital Radio Antenna

This parameter indicates the amount of current being used by the digital radio antenna by measuring the voltage drop across an internal resistor. Early design modules support the mV reading while later design modules support a mA reading.

DSP Selected

The scan tool displays the equalization setting selected (talk, front/driver seat, ambience, spacious, or off).

Driver Number

The scan tool displays Driver 1/Driver 2. The memory position the driver has selected as received by class 2 lines.

Fade Control

The scan tool displays 0-255 counts. The amount of front to rear fade selected.

FM Distant Stop Level

This is the stopping level for the seek/scan feature when set to distant mode.

FM Local Stop Level

This is the stopping level for the seek/scan feature when set to local mode.

Ignition Counter

The scan tool displays the number of ignition cycles.

Ign. Cycles Since Last

The scan tool displays the number of ignition cycles since the last DTC was set.

Language

The scan tool displays the current language displayed on the radio.

LF Tweeter - Door

The scan tool displays On/Off. The state of the speaker output.

Long Wave Status

The scan tool displays Present/Not Present. This parameter displays the ability to receive long wave RF signals.

LR Full Range

The scan tool displays On/Off. The state of the speaker output.

Manufacturing Shift Inf

The scan tool displays the shift information for the build of the radio.

Manufacturing Site

The scan tool displays the site code where the unit was manufactured.

Microphone High

The scan tool displays 0-255 counts. The amount of noise measured in the vehicle. This is the higher of two measurements. Once Microphone Low has reached the limit, noise is then measured in Microphone High.

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Microphone Low

The scan tool displays 0-255 counts. The amount of noise measured in the vehicle. This is the lower of two measurements. Once this has reached the limit, noise is then measured in Microphone High.

Mid Control

The scan tool displays 0-255 counts. The amount of mid range selected.

Mono Volume Control

The scan tool displays 0-99 counts. The volume selected for the phone output.

Month

The scan tool displays the month the software was created.

Mute

The scan tool displays On/Off indicating the state of the mute button.

New VIN Counter

The scan tool displays 0-99. The number of times a new VIN number has been set in the radio.

Phone Active

The scan tool displays if the phone is Active/Inactive.

Point of Sale

The scan tool displays the country the vehicle was sold in.

Power Mode

The scan tool displays the current power mode the module is operating in.

Preset Settings

The scan tool displays Home/Away. This is the current radio preset setting.

PROM ID

The scan tool displays 0-9999. The identification number of the radios internal PROM.

PROM ID for Audio

The scan tool displays 0-9999. The identification number of the radio internal PROM.

PROM ID for Navigation

The scan tool displays 0-9999. The identification number of the navigation internal PROM.

Radio Audio Software Version

The scan tool displays the version of software of the radio.

Radio ID

The scan tool displays the radio ID of the digital radio receiver.

Radio Left Channel

The scan tool displays On/Off. The state of the amplifier input.

Radio Right Channel

The scan tool displays On/Off. The state of the amplifier input.

Radio Type

The scan tool displays what level radio is currently installed in the vehicle.

Rear Subwoofer

The scan tool displays On/Off. The state of the speaker output.

Region Code

The scan tool displays the region the radio is set for.

RF Tweeter - Door

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The scan tool displays On/Off. The state of the speaker output.

RR Full Range

The scan tool displays On/Off. The state of the speaker output.

Signal Strength for Rad

The scan tool displays 0-255 decibels. The strength of the radio station that the radio is tuned to.

Signal Strength for TV

The scan tool displays 0-255 decibels. The strength of the TV station that the radio is tuned to.

Source Selected

The scan tool displays which source has been selected (Tuner, CDX, Phone, Off).

Theft Armed

The scan tool displays Learned VIN/No VIN. The Scan tool displays Learned VIN when the theft mode has been turned ON by recognizing a valid VIN.

Theft Lock

The scan tool displays Active/Inactive. The scan tool displays Active when the radio receives the incorrect VIN.

Tone Generator

The scan tool displays ON or OFF. The state of the chime.

Total CD Hours

The scan tool displays 0-999 hrs. The total number of hours the single CD has been used.

Total CD/DVD Hours

The scan tool displays 0-999 hrs. The total number of hours the CD changer has been used.

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Total Radio Hours

The scan tool displays 0-999 hrs. The total number of hours the radio has been used.

Treble Control

The scan tool displays 0-255 counts. The amount of treble selected.

Volume Control

The scan tool displays 0-255 counts. The volume selected.

Year

The scan tool displays the year the software was created.

DIAGNOSTIC TROUBLE CODE (DTC) LIST

Diagnostic Trouble Code (DTC) List

DTC	Diagnostic Procedure	Module(s)
B1001	<u>DTC B1001</u>	Radio
B1259	<u>DTC B1259</u>	Digital Radio Receiver
B1271	<u>DTC B1271</u>	Radio

DTC B1001

Circuit Description

This DTC is generated by the module when an error occurs between the VIN as received over the class 2 communication circuit and the VIN as stored in the module memory. The only circuit required is the class 2 communications line.

Conditions for Running the DTC

The DTC is run when the Radio changes from OFF to ON. This may be in response to the radio switch or the ignition ON signal.

Conditions for Setting the DTC

This DTC is generated by the module when an error occurs between the VIN as received over the class 2 communication circuit and the VIN as stored in the module memory. This happens when the radio changes from OFF to ON.

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Action Taken When the DTC Sets

The radio does not function. The radio also displays as many characters of the word "CALIBRATE" as will fit in the radio display.

Conditions for Clearing the MIL/DTC

Re-calibration with the correct calibrations for the vehicle and cycling the radio to OFF then to ON will clear the DTC if there is no damage to the radio.

DTC B1001

Step	Action	Yes	No
Schematic Reference: <u>Radio/Audio System Schematics</u> Connector End View Reference: <u>Entertainment Connector End Views</u>			
1	Did you perform the Entertainment System Diagnostic System Check?	Go to Step 2	Go to <u>Diagnostic System Check - Entertainment System</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool, configure the radio to the vehicle. Does the DTC reset?	Go to Step 3	System OK
3	IMPORTANT: Perform the set up procedure for the radio. Replace the radio. Refer to <u>Radio Replacement</u> .Did you complete the replacement?	System OK	-

DTC B1259

Circuit Description

The digital radio antenna is connected to the digital radio receiver by 2 coax cables. One coax carries the satellite signal, the other coax carries the terrestrial signal. The antenna cable for the satellite antenna also provides a path for D.C. current for powering the antenna.

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Conditions for Running the DTC

This test is run every 300 milliseconds.

Conditions for Setting the DTC

The digital radio receiver detects an antenna fault.

Action Taken When the DTC Sets

The radio displays "No XM Signal."

Conditions for Clearing the DTC

The condition must be corrected.

Test Description

The number below refers to the step number on the diagnostic table.

2: Early design modules support the mV reading while later design modules support the mA reading.

3: Due to current limiting capabilities in the module, an antenna cable shorted to ground could still show 1200-1800 mV.

DTC B1259

Step	Action	Values	Yes	No
Schematic Reference: <u>Radio/Audio System Schematics</u>				
1	Did you perform the Diagnostic System Check - Entertainment System?	-	Go to Step 2	Go to <u>Diagnostic System Check</u> = <u>Entertainment System</u>
2	With a scan tool, observe the digital radio antenna in the digital radio receiver data list. Does the scan tool indicate that the digital radio antenna is within the specified range?	1200-1800 mV or 42-118 mA	Go to Step 3	Go to Step 4
	Test the antenna cables for a short to			

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3	ground. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 8
4	1. Disconnect the antenna cables from the digital radio receiver. 2. Measure the voltage from the center conductor of the inboard antenna connector on the digital radio receiver to one of the case screws. Does the voltage measure within the specified range?	4.5-5.5 V	Go to Step 5	Go to Step 6
5	Test the antenna cables for an open, or high resistance. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 8
6	Inspect for poor connections at the digital radio receiver. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 7
7	IMPORTANT: Always perform the setup procedure for the digital radio receiver. Refer to <u>Digital Radio Receiver Setup</u> Replace the digital radio receiver. Refer to <u>Receiver Replacement - Digital Radio</u> . Did you complete the replacement?	-	Go to Step 10	-
8	Inspect for poor connections at the digital radio antenna. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 9
	Replace the digital radio antenna. Refer to <u>Antenna Replacement - Digital</u>			

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9	Radio . Did you complete the replacement?	-	Go to Step 10	-
10	1. Use the scan tool in order to clear the DTCs. 2. Operate the vehicle within the Conditions for Running the DTC as specified in the supporting text. Does the DTC reset?	-	Go to Step 2	System OK

DTC B1271

Circuit Description

This DTC is generated by the module when the Theft Lock is activated. This occurs when the VIN as received over the class 2 communication circuit and the VIN as stored in the module memory do not match. This also occurs when no VIN is received over the class 2 circuit. The only circuit required is the class 2 communications line.

Conditions for Running the DTC

This test is run every 300 milliseconds.

Conditions for Setting the DTC

This DTC is generated by the module when the VIN as received over the class 2 communication circuit and the VIN as stored in the module memory do not match. This also occurs if no VIN is received over the class 2 circuit. This DTC test runs when the Radio changes from OFF to ON.

Action Taken When the DTC Sets

The Radio does not function. The Radio will display Locked - THEFTLOCK Active.

Conditions for Clearing the MIL/DTC

Re-calibration with the correct calibrations for the vehicle and cycling the Radio to OFF then to ON will clear the DTC if there is no damage to the Radio.

DTC B1271

Step	Action	Yes	No
	Did you perform the Entertainment System		Go to Diagnostic

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1	Diagnostic System Check?	Go to Step 2	<u>System Check - Entertainment System</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool clear the radio theft information. Does the DTC Reset?	Go to Step 3	System OK
3	Replace the radio. Refer to <u>Radio Replacement</u> . Did you complete the replacement?	System OK	-

DTC B1422**Circuit Description**

DTC B1422 will set if the voltage to the 8 volt ARS power supply falls below 8.3 volts.

Conditions for Running the DTC

This test is run every 300 milliseconds.

Conditions for Setting the DTC

The antenna module detects that the voltage has dropped below 8.3 volts for 80 msec.

Conditions for Clearing the DTC

The DTC is cleared when the antenna module detects that the voltage is back above 8.8 volts.

DTC B1422

Step	Action	Yes	No
Schematic Reference: <u>Radio/Audio System Schematics</u> Connector End Views Reference: <u>Entertainment Connector End Views</u>			
1	Did you perform the Diagnostic System Check - Entertainment System?		Go to <u>Diagnostic System Check - Entertainment</u>

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		Go to Step 2	<u>System</u>
2	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool clear the DTC.		
	Does the DTC Reset?	Go to Step 3	System OK
3	IMPORTANT: Always perform the transmitter programming procedure for the radio antenna module. Refer to <u>Transmitter Programming</u> in Keyless Entry. If vehicle is equipped with UJ6 also perform the Tire Pressure Learn procedure. Refer to <u>Tire Pressure Sensor Learn</u> in Tire Pressure Monitoring. Replace the driver antenna module. Refer to <u>Antenna Module Replacement (Passenger Side)</u> or <u>Antenna Module Replacement (Driver Side)</u> .Did you complete the replacement?		
		Go to Step 4	-
4	1. Install a scan tool. 2. Turn ON the ignition, with the engine OFF. 3. With a scan tool clear the DTC.		
	Does the DTC Reset?	Go to Step 2	System OK

SYMPTOMS - ENTERTAINMENT

IMPORTANT: The following steps must be completed before using the symptom tables.

- Perform the Diagnostic System Check - Entertainment System before using the Symptom Tables in order to verify that all of the following are true:
 - There are no DTCs set.
 - The control modules can communicate via the serial data link.
- Review the system operation in order to familiarize yourself with the system functions. Refer to Radio/Audio System Description and Operation .

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the radio. 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 Conditions and Poor Connections** in Wiring Systems.

Symptom List

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

- **Audio System Troubleshooting Hints**
- **Radio Poor Reception**
- **Digital Radio Poor or No Reception**
- **Audio Distortion - One or More Speakers**
- **Noise Compensated Volume Inoperative**
- **Steering Wheel Controls Inoperative**
- **Reduced Volume - One or More Speakers**
- **Speakers Inoperative - One or More**
- **Speakers Inoperative - All**
- **Video Entertainment System Troubleshooting Hints**
- **Video Entertainment System Wireless Headphone Inoperative**
- **Video Display is Poor or Blank**

For navigation related symptoms, refer to **Symptoms - Navigation Systems** in Navigation Systems.

AUDIO SYSTEM TROUBLESHOOTING HINTS**Tools Required:**

J 39916-A CD and Cassette Diagnostic Audio Kit. See **Special Tools and Equipment** .

Many conditions that affect radio operation may be corrected without removing the radio from

the car. Verify the condition, and follow the diagnostic procedures in order to isolate and correct the condition. In order to properly diagnose any audio system problems, ensure that you have a fully charged battery.

Preliminary Inspections

IMPORTANT: When testing the audio system for poor reception or noise, the vehicle should be outside away from metal buildings and utility lines, with the hood and rear compartment closed.

- Check for any aftermarket equipment that may have been installed on the vehicle. If aftermarket equipment is found disconnect it and check if the audio noise is still present.

Inspect that the antenna connector and the antenna coaxial cable are clean and tight.

- For reception concerns, first determine if the customer is within the listening area of the stations they are attempting to receive.
- Stations at the lower end of the FM band are more susceptible to audio noises than stations at the higher end.
- If the noise is only from one speaker check for the following before speaker replacement:
 - Isolate the noise using the J 39916-A . See **Special Tools and Equipment** .
 - Inspect the speaker connections to ensure they are clean and tight. Refer to **Testing for Intermittent Conditions and Poor Connections** in Wiring Systems.
 - Inspect for a loose or incorrectly installed speaker or surrounding trim. Loose trim can cause a buzz or flutter which sounds like a malfunctioning speaker.
- Ignition noise on the FM band may be an indication of an ignition system problem.
- Inspect that all vehicle grounds are clean, tight and free of corrosion.
- Inspect the rear defogger grid lines for large breaks or dark spots.
- Inspect the connections at the radio antenna module (if equipped) to ensure that they are clean and tight.
- Compare the customers vehicle to another of similar model and audio system to determine if the condition is abnormal.

Identifying Concerns

1. In order to isolate the source of the noise/poor reception, identify the ignition switch position that the concern is most noticeable:
 - A. Turn the ignition switch to the accessory position.

- B. Turn ON the radio.
 - C. Seek up 88-108 FM then 550-1600 AM.
 - D. Record the number of valid radio stations where the tuner stops.
 - E. Repeat these steps with the ignition ON, and the engine OFF then again with the engine running.
2. Return the ignition switch to the position that the concern was most noticeable.
 3. Remove fuses or circuit breakers one at a time until the noise has been eliminated.
 4. Identify what systems or components are powered by the fuse.
 5. Reinstall all fuses and circuit breakers.
 6. Disconnect the components powered by the fuse one at a time until the concern has been eliminated.

Corrective Action

- Inspect the ground integrity of the component or system causing the noise.
- Malfunctioning and marginal components such as relays and solenoids may cause noise and/or poor reception.
- Always use a braided ground strap when applying additional grounds and keep the ground strap as short as possible.
- If the noise source is found to be coming from the vehicle harness:
 - Route the antenna cable separately from the wire harness that is emitting the noise.
 - Use aluminum or nickel tape in order to shield the antenna cable. Attempt variations of the following repairs:
 - Add only aluminum or nickel tape before adding a ground strap to the tape.
 - Wrap a ground strap 360 degrees around the tape, securing the other end of the strap to chassis ground.

IMPORTANT: When installing suppression devices, signal wires such as sensor and communication circuits should not be suppressed. Battery and ignition voltage circuits are the best choices for suppressing.

- Capacitors work best on switch pops and low frequency noise.
- Filters work best on high frequency whines and static.
- After adding any suppression device, inspect all of the vehicle systems (including those not related to the audio system) for proper operation and function.

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- Whenever possible, make a test harness that includes filters or capacitors. Always inspect the effectiveness and operation before permanent installation.
- If an audible pop is caused due to operating a switch, perform the following repairs as necessary:
 - Add a capacitor across the contacts of the switch.
 - Add a capacitor from the battery positive voltage (B+) side of the switch to chassis ground.
 - Add a capacitor from the ground side of the switch to chassis ground.
- Use the following available noise suppression devices:
 - 220 micro farad (50 V) capacitor GM P/N 1227895 - Works well for ignition system related noise.
 - 0.47 micro farad capacitor GM P/N 1227894 - Works well for switches and relays.
 - Feed through capacitor GM P/N 477371- Works well for high current situations.
 - Filter package GM P/N 1224205 - Works well for low current situations.
 - Fuel pump suppressor GM P/N 25027405
 - 53.34 cm (21 in) braided ground strap GM P/N 8910791
 - 48.26 cm (19 in) braided ground strap GM P/N 6286800
 - 26.67 cm (10.5 in) braided ground strap GM P/N 6287160
 - 21.59 cm (8.5 in) braided ground strap GM P/N 12091511

Generator Whine Concerns

1. Inspect the ground terminal and cable for high resistance.
2. Inspect the generator and brackets for loose or coated mounting bolts.
3. Inspect that the ground straps between the engine and the frame are clean and tight.
4. If the noise is still present, inspect the charging system for proper operation.
5. Install a filter GM P/N 1224205 in the battery voltage feed circuit to the radio.
6. If the noise is not eliminated, install the filter in each following variation:
 - Install the filter with the single wire side toward the radio and the ground wire attached to chassis ground.
 - Remove the ground to the filter.
 - Reverse the filter so the 2-wire side is toward the radio with the ground wire attached to chassis ground.
 - Remove the ground from the filter.
7. If the filter GM P/N 1224205 causes a delay when turning the radio ON or OFF, or other

problems, remove the filter and install a 0.47 micro farad capacitor to chassis ground.

8. Before reassembling the vehicle, remove any unneeded filters.
9. Test the functionality all of the vehicle systems (including those not related to the audio system) for proper operation and function.

RADIO POOR RECEPTION

Schematic Reference: Radio/Audio System Schematics

Diagnostic System Check - Entertainment

Always perform the Diagnostic System Check - Entertainment, before proceeding with these diagnostic procedures. Refer to **Diagnostic System Check - Entertainment System** .

Diversity Antenna System

This diversity antenna system is comprised of 3 antenna grid patterns, two radio antenna modules, a coax, and a FM composite signal from the radio to the passenger antenna module. In AM and WX mode the system functions as follows:

The passenger antenna module takes the signal from only the AM/FM1 antenna pattern on the right side quarter glass window. The passenger antenna module amplifies this signal and sends it to the radio. In this mode the driver antenna module sends 8 V to power the passenger antenna module via coax.

In FM mode the system functions as follows:

The driver antenna module takes signal from FM antenna pattern on the left side quarter glass window and sends it to the passenger antenna module where it is mixed with the signal from the right side rear quarter glass window. The driver antenna module combines and amplifies both signals and sends it to the radio. In this mode the radio supplies 5-8 Volts over the FM composite signal wire and this switches the modules into FM mode. The driver antenna module sends 8 Volts to power the passenger antenna module via coax. The FM composite signal also provides a feedback signal to the passenger antenna module, which indicates the quality of the signal.

The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition. If the test leads to the replacement of a component, always inspect for a poor connection before proceeding with the replacement. Refer to **Testing for Intermittent Conditions and Poor Connections** and **Connector Repairs** in Wiring Systems.

Test the antenna coax cable prior to performing any of the following tests.

IMPORTANT: If the driver antenna module is replaced you must perform the transmitter programming procedure for the radio antenna module. Refer to Transmitter Programming in Keyless Entry. If the vehicle is equipped with Tire Pressure Monitoring (UJ6) then perform the Tire Pressure Learn procedure. Refer to Tire Pressure Sensor Learn in Tire Pressure Monitoring.

Poor Reception on Both AM and FM Bands

- The radio antenna modules are not grounded properly. The module grounding screws should be clean and tight. The antenna module grounds are a chassis ground. Measure the resistance from the antenna module base plate to a good ground. Resistance should be 0.20 ohms or less. Find and correct the condition if the resistance is out of specification.
- The coax between the driver and passenger antenna modules is open or shorted to ground or short to B+. Test for 8 V from the center conductor of the coax from the passenger antenna module. If the voltage is not near the specified value, test the coax for an open or short for ground or short to B+. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
- The FM composite signal circuit to the radio antenna module is open, shorted to ground or shorted to B+. Test the FM composite signal circuit for an open or short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
- Defective antenna module - Replace the antenna module. Refer to Antenna Module Replacement (Passenger Side) or Antenna Module Replacement (Driver Side).
- Defective antenna grid - Replace the window. Refer to Quarter Window Replacement in Stationary Windows.
- Defective radio - Replace the radio. Refer to Radio Replacement.

Poor Reception on AM Band Only

- Defective coax from the passenger antenna module to the radio. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
- Defective coax between the driver and passenger antenna modules. Test for 8 Volts on the center conductor. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
- Defective driver antenna module, no 8 Volt output. Replace the driver antenna module. Refer to Antenna Module Replacement (Passenger Side) or Antenna Module Replacement (Driver Side).
- Defective passenger antenna module - Replace the antenna module. Refer to Antenna

Module Replacement (Passenger Side) or Antenna Module Replacement (Driver Side)

- Defective AM antenna grid - Replace the window. Refer to **Quarter Window Replacement** in Stationary Windows.
- Defective radio - Replace the radio. Refer to **Radio Replacement** .

Poor Reception on FM Band Only

- Defective coax from the passenger antenna module to the radio. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
- Defective coax between the driver and passenger antenna modules. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
- FM composite signal circuit shorted to B+. Test the circuit for a short to voltage. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
- Defective driver or passenger antenna module - Replace the antenna module. Refer to **Antenna Module Replacement (Passenger Side) or Antenna Module Replacement (Driver Side)** .
- Defective FM1 or FM2 antenna grid. Replace the window. Refer to **Quarter Window Replacement** in Stationary Windows.
- Defective radio - Replace the radio. Refer to **Radio Replacement** .

DIGITAL RADIO POOR OR NO RECEPTION**Digital Radio Poor or No Reception**

Step	Action	Values	Yes	No
1	Did you perform the Diagnostic System Check-Entertainment System?	-	Go to Step 2	Go to <u>Diagnostic System Check</u> = <u>Entertainment System</u>
2	1. Make sure the vehicle is outside in an area with an unobstructed view of the southern sky. 2. Turn ON the ignition, with the engine OFF. 3. Turn ON the radio.	-		

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	4. Tune the radio to satellite channel 1. Is the reception clear?		Go to Step 3	Go to Step 5
3	Tune the radio to several other satellite channels. Is the reception clear?	-	Go to <u>Audio System Troubleshooting Hints</u>	Go to Step 4
4	Contact XM at 1-800-556-3600 to verify customer account status or possible network problems. Did you find and correct the condition?	-	Go to Step 14	Go to Step 10
5	Contact XM at 1-800-556-3600 to verify possible network problems. Did you find and correct the condition?	-	Go to Step 14	Go to Step 6
6	With a scan tool, observe the digital radio antenna in the digital radio receiver data list. Does the scan tool indicate that the digital radio antenna is within the specified range?	1200-1800 mV or 42-118 mA	Go to Step 10	Go to Step 7
7	1. Disconnect the antenna cables from the digital radio receiver. 2. Measure the voltage from the center conductor of the inboard antenna connector on the digital radio receiver to one of the case screws. Does the voltage measure within the specified range?	4.5-5.5 V	Go to Step 8	Go to Step 10
8	Test the antenna cables for an open, short, or high resistance. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems.	-		

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	Did you find the condition?		Go to Step 9	Go to Step 11
9	Replace the antenna cable. Did you complete the replacement?	-	Go to Step 14	-
10	Inspect for poor connections at the digital radio receiver. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 14	Go to Step 12
11	Inspect for poor connections at the digital radio antenna. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 14	Go to Step 13
12	IMPORTANT: Always perform the setup procedure for the digital radio receiver. Refer to <u>Digital Radio Receiver Setup</u> Replace the digital radio receiver. Refer to <u>Receiver Replacement - Digital Radio</u> .Did you complete the replacement?	-	Go to Step 14	-
13	Replace the digital radio antenna. Refer to <u>Antenna Replacement - Digital Radio</u> . Did you complete the replacement?	-	Go to Step 14	-
14	Operate the system in order to verify the repair. Did you correct the condition?	-	System OK	Go to Step 2

AUDIO DISTORTION - ONE OR MORE SPEAKERS

Schematic Reference: **Radio/Audio System Schematics**

Connector End View Reference: **Entertainment Connector End Views**

Diagnostic System Check - Entertainment System

Always perform the Diagnostic System Check - Entertainment System before proceeding with these diagnostic procedures. Refer to **Diagnostic System Check - Entertainment System** .

IMPORTANT:

- The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition. If the list leads to the replacement of a component, always inspect for a poor connection before proceeding with the replacement. Refer to **Testing for Intermittent Conditions and Poor Connections** and **Connector Repairs** in Wiring Systems.
- The following procedure assumes that the distortion caused in the vehicle speakers is only present when the disc player and video display (DPVD) is selected as the audio source for the vehicle speakers.

With U42 and U66

1. Right or left audio signal (+) open or shorted to battery positive voltage. Test the appropriate right or left audio signal (+) for an open or a short to battery positive voltage. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. Distorted audio output from the DPVD. Replace the DPVD. Refer to **Disc Player and Video Display Replacement** .

IMPORTANT: The following procedure assumes that the distortion caused in the vehicle speakers is only present when the digital radio receiver (DRR) is selected as the audio source for the vehicle speakers.

With U2K and U66

1. Right or left audio signal (+) open or shorted to battery positive voltage. Test the appropriate right or left audio signal (+) for an open or a short to battery positive voltage. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. Distorted audio output from the digital radio receiver. Replace the digital radio receiver. Refer to **Receiver Replacement - Digital Radio** .

NOISE COMPENSATED VOLUME INOPERATIVE

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Noise Compensated Volume Inoperative

Step	Action	Value	Yes	No
Schematic Reference: <u>Radio/Audio System Schematics</u> Connector Reference: <u>Entertainment Connector End Views</u>				
1	Did you perform the Entertainment System Diagnostic System Check?	-	Go to Step 2	Go to Diagnostic System Check - Entertainment System
2	1. Turn ON the ignition, with the engine ON. 2. Turn ON the blower motor on the maximum speed. 3. Cycle the auto volume control ON and then OFF. Is a difference in volume heard?	-	Go to Testing for Intermittent Conditions and Poor Connections in Wiring Systems	Go to Step 3
3	1. Turn ON the ignition, with the engine OFF. 2. Disconnect the noise compensation microphone. 3. Measure the voltage from the noise compensation microphone supply voltage circuit to the drain wire. Does the voltage measure near the specified value?	8 V	Go to Step 4	Go to Step 5
4	Replace the noise compensation microphone. Refer to Microphone Replacement - Radio Volume Compensator Interior . Did you complete the replacement?	-	Go to Step 9	-
5	Test the noise compensation microphone supply voltage circuit for an open or short. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.	-		

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	Did you find and correct the condition?		Go to Step 9	Go to Step 6
6	Test the drain wire circuit for an open or short. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 9	Go to Step 7
7	Inspect for poor connections at the amplifier. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 9	Go to Step 8
8	Replace the amplifier. Refer to <u>Amplifier Replacement</u> . Did you complete the repair?	-	Go to Step 9	-
9	Operate the system in order to verify the repair. Did you correct the condition?	-	System OK	Go to Step 3

STEERING WHEEL CONTROLS INOPERATIVE

Diagnostic Aids

- If the vehicle is equipped with RPO U2R or U2S the steering wheel controls are connected to the radio.
- If the vehicle is not equipped with RPO U2V or U2X the steering wheel controls are connected to the CD changer which is a serviceable component of the navigation radio.

Steering Wheel Controls Inoperative

Step	Action	Value(s)	Yes	No
Schematic Reference : <u>Steering Wheel Controls Schematics</u>				
Connector Reference : <u>Entertainment Connector End Views</u>				
1	Did you perform the Entertainment System Diagnostic System Check?	-	Go to Step 2	Go to <u>Diagnostic System Check</u> = <u>Entertainment System</u>
	1. Turn ON the ignition, with the engine OFF.		Go to Testing	

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2	2. Turn ON the radio. 3. Operate all of the steering wheel controls. Do all of the steering wheel controls operate properly?	-	for <u>Intermittent</u> <u>Conditions</u> <u>and Poor</u> <u>Connections</u> in Wiring Systems	Go to Step 3
3	Test the remote radio control supply voltage circuit for a short to ground or open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 4
4	CAUTION: When performing service on or near the SIR components or the SIR wiring, the SIR system must be disabled. Refer to SIR Disabling and Enabling Zones. Failure to observe the correct procedure could cause deployment of the SIR components, personal injury, or unnecessary SIR system repairs. 1. Test the resistance of the steering wheel control switches. 2. Press the steering wheel control switches to the correct function, one at a time, and compare the measured values to those shown. 3. Measure the resistance between the remote radio control supply voltage circuit and the steering wheel controls signal circuit at the radio or CD changer. Are the measured resistances approximately equal to the specified values?	Mute: 1.3K ohm Source: 1.5K ohm Voice Recognition: 1.9K ohm Preset Seek: 2.4K ohm Volume Up: 3.1K ohm Volume Down: 4.3K ohm Seek Up: 7K ohm Seek Down: 14K ohm	Go to Step 5	Go to Step 7
5	Test the steering wheel controls signal circuit for a short, high resistance or an open. Refer to <u>Circuit Testing</u> and	-		

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	Wiring Repairs in Wiring Systems. Did you find and correct the condition?		Go to Step 10	Go to Step 6
6	Inspect for poor connections at the harness connector of the radio. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 9
7	Inspect for poor connections at the harness connector of the steering wheel radio controls. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems. Did you find and correct the condition?	-	Go to Step 10	Go to Step 8
8	Replace the appropriate steering wheel radio control. Refer to Steering Wheel Control Switch Assembly Replacement in Steering Wheel and Column. Did you complete the replacement?	-	Go to Step 10	-
9	Replace the radio or CD changer and perform the set up procedure for the radio if applicable. Refer to Radio Replacement or Remote CD Changer Replacement . 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 2

REDUCED VOLUME - ONE OR MORE SPEAKERS

Schematic Reference: Radio/Audio System Schematics

Connector End Views Reference: Entertainment Connector End Views

Diagnostic System Check - Entertainment System

Always perform the Entertainment System Diagnostic System Check before proceeding with these diagnostic procedures. Refer to **Diagnostic System Check - Entertainment System** .

Speaker(s) - Reduced Volume

IMPORTANT: The following information lists the most probable cause of the concern to the least probable cause. If the list leads to the replacement of a component, always inspect for a poor connection before proceeding with replacement. Refer to **Testing for Intermittent Conditions and Poor Connections** and **Connector Repairs** in Wiring Systems.

RPO U66

1. Speaker output circuit high resistance. Test the appropriate speaker output circuits for high resistance. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. Low level audio circuit open. Test the appropriate low level audio circuit for an open. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
3. Defective speaker - Replace the appropriate speaker. Refer to **Speaker Replacement Reference** .

RPO U57

1. Speaker output circuit high resistance, open, or shorted. Test the appropriate speaker output circuits for high resistance, open or short. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. Defective speaker - Replace the appropriate speaker. Refer to **Speaker Replacement Reference** .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except digital radio.

With RPO U2K and U57

1. Audio common circuit open. Test the audio common circuit for an open. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. No audio output from the digital radio receiver. Replace the digital radio receiver. Refer to **Receiver Replacement - Digital Radio** and **Digital Radio Receiver Setup** .
3. No digital radio audio output from the radio. Replace the radio. Refer to **Radio**

Replacement .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except rear DVD audio selected as source for vehicle speakers.

With RPO U42 and U57

1. Audio common circuit open. Test the audio common circuit for an open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. No audio output from the disc player and video display. Replace the disc player and video display. Refer to Disc Player and Video Display Replacement .
3. No rear DVD audio output from the radio. Replace the radio. Refer to Radio Replacement .

SPEAKERS INOPERATIVE - ONE OR MORE

Schematic Reference: Radio/Audio System Schematics

Connector End Views Reference: Entertainment Connector End Views

Diagnostic System Check - Entertainment System

Always perform the Entertainment System Diagnostic System Check before proceeding with these diagnostic procedures. Refer to Diagnostic System Check - Entertainment System .

One Speaker Inoperative

IMPORTANT: The following information lists the most probable cause of the concern to the least probable cause. If the list leads to the replacement of a component, always inspect for a poor connection before proceeding with replacement. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems.

1. Speaker output open or shorted. Test the appropriate speaker output circuits for an open or short. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. No audio output from the amplifier. Test for any AC voltage between the appropriate speaker output circuits at the speaker harness connector, disconnected with the radio volume adjusted to an audible level. If AC voltage is present, replace the speaker. Refer to Speaker

Replacement Reference . If no AC voltage is present, replace the amplifier. Refer to **Amplifier Replacement** .

3. Defective speaker. Replace the inoperative speaker. Refer to **Speaker Replacement Reference** .

All Speakers on One Channel Inoperative

IMPORTANT: The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition. If the list leads to the replacement of a component, always inspect for a poor connection before proceeding with the replacement. Refer to **Testing for Intermittent Conditions and Poor Connections** and **Connector Repairs in Wiring Systems**.

RPO U66

1. Low level audio signal circuit open or shorted. Test all low level audio signal circuits for an open or short. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. No audio output from the amplifier. Replace the amplifier. Refer to **Amplifier Replacement** .

RPO U57

1. Rear midrange speaker output shorted. Test all rear midrange speaker output circuits for a short. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. No audio output from the amplifier. Replace the amplifier. Refer to **Amplifier Replacement** .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except digital radio.

With RPO U2K and U57

1. Audio signal circuit open. Test the appropriate audio signal circuit for an open. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. No audio output from the digital radio receiver. Replace the digital radio receiver. Refer to **Receiver Replacement - Digital Radio** and **Digital Radio Receiver Setup** .
3. No digital radio audio output from the radio. Replace the radio. Refer to **Radio**

Replacement .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except digital radio.

With RPO U2K and U66

1. Audio signal circuit short to ground. Test the appropriate audio signal circuit for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. No audio output from the digital radio receiver. Replace the digital radio receiver. Refer to Receiver Replacement - Digital Radio and Digital Radio Receiver Setup .
3. No digital radio audio output from the radio. Replace the radio. Refer to Radio Replacement .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except rear DVD audio selected as source for vehicle speakers.

With RPO U42 and U57

1. Audio signal circuit open. Test the appropriate audio signal circuit for an open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. No audio output from the disc player and video display. Replace the disc player and video display. Refer to Disc Player and Video Display Replacement .
3. No digital radio audio output from the radio. Replace the radio. Refer to Radio Replacement .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except rear DVD audio selected as source for vehicle speakers.

With RPO U42 and U66

1. Audio signal circuit short to ground. Test the appropriate audio signal circuit for a short to ground. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. No audio output from the disc player and video display. Replace the disc player and video display. Refer to Disc Player and Video Display Replacement .
3. No digital radio audio output from the radio. Replace the radio. Refer to Radio

Replacement .

SPEAKERS INOPERATIVE - ALL

Schematic Reference: Radio/Audio System Schematics

Connector End Views Reference: Entertainment Connector End Views

Diagnostic System Check - Entertainment System

Always perform the Entertainment System Diagnostic System Check before proceeding with these diagnostic procedures. Refer to Diagnostic System Check - Entertainment System .

All Speakers Inoperative

IMPORTANT: The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition. If the list leads to the replacement of a component, always inspect for a poor connection before proceeding with the replacement. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.

All Radios

1. Battery positive voltage circuit to the amplifier open. Test the battery positive voltage circuit to the amplifier for an open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. Ground circuit to the amplifier open. Test the ground circuit to the amplifier for an open. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
3. No audio output from the amplifier. Replace the amplifier. Refer to Amplifier Replacement .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except digital radio.

With RPO U2K and U57

1. Audio signal circuit shorted. Test the audio signal circuits for a short. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. No audio output from the digital radio receiver. Replace the digital radio receiver. Refer to

Receiver Replacement - Digital Radio and Digital Radio Receiver Setup .

3. No digital radio audio output from the radio. Replace the radio. Refer to **Radio Replacement** .

IMPORTANT: The following procedure assumes all speakers are operative for all modes of operation except rear DVD audio selected as source for vehicle speakers.

With RPO U42 and U57

1. Audio signal circuit shorted. Test the audio signal circuits for a short. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. No audio output from the disc player and video display. Replace the disc player and video display. Refer to **Disc Player and Video Display Replacement** .
3. No rear DVD audio output from the radio. Replace the radio. Refer to **Radio Replacement** .

VIDEO ENTERTAINMENT SYSTEM TROUBLESHOOTING HINTS

Schematic Reference: **Video System Schematics (U2X/U2Y)** or **Video System Schematics (U2V)**

Connector End View Reference: **Entertainment Connector End Views**

- Many conditions that affect video system operation may be corrected without removing the radio or the disc player and video display (DPVD) from the vehicle. Make sure to understand all features of system operation before beginning the diagnosis of the system. Verify the condition and follow the diagnostic procedures in order to isolate and correct the condition.
- Be sure the vehicle battery is fully charged before beginning video entertainment system diagnosis.

Video or Audio Distortion

The manufacturing process for producing DVDs does not have the same quality control processes in place that compact disk manufacturing does. If there are video or audio quality problems with an individual DVD, try playing that disk in another DVD player. If the quality is poor for both players, return the disk to the place of purchase and request an exchange. If the quality problem is only seen in one of the players, examine the disk for scratches dirt or smudges and attempt to clean the disk with one of the disk cleaning systems that are commercially available.

Video or audio distortion during auxiliary playback can often be attributed to the DC to AC inverter that is used to power the auxiliary device. The power inverters tend to introduce noisy signals into the vehicle electrical system.

DPVD Wireless Headphone Inoperative

IMPORTANT: The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. Volume control on the wireless headphone set is turned all the way down. Adjust the volume control on the headphones.
2. Discharged batteries in the wireless headphone set. Turn on power to the headphone set. If the headset power indicator does not turn on, replace the batteries in the headset as needed.
3. Faulty headphone set. Test the operation of the system using a known good headphone set. If operation is OK, replace the vehicle headphone set.

DPVD Remote Control Inoperative

The buttons on the remote control do not operate the disc player and video display but the buttons on the disc player operate normally.

IMPORTANT: The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition.

1. Discharged batteries in the video remote control. Replace the discharged batteries.
2. Faulty remote control. Test the operation of the system using a known good remote control. If operation is OK, replace the remote control.

VIDEO ENTERTAINMENT SYSTEM WIRELESS HEADPHONE INOPERATIVE

Schematic Reference: Radio/Audio System Schematics

Connector End View Reference: Entertainment Connector End Views

Diagnostic System Check - Entertainment System

Always perform the Diagnostic System Check - Entertainment System before proceeding with these diagnostic procedures. Refer to Diagnostic System Check - Entertainment System.

IMPORTANT:

- The following information lists the most probable cause of the concern to the least probable cause followed by the appropriate test for that condition. If the list leads to the replacement of a component, always inspect for a poor connection before proceeding with the replacement. Refer to Testing for Intermittent Conditions and Poor Connections and Connector Repairs in Wiring Systems.
- The following conditions assume that both left and right audio channels in the wireless headphones are inoperative in all rear seat entertainment modes.

1. Discharged batteries in the wireless headphones. Check for poor battery condition even if the power indicator light is illuminated on the earpiece.
2. Inoperative infra-red receiver in the headphones. Test the system with a known good set of headphones. Replace the headphones if necessary.
3. Inoperative infra-red transmitter in the disc player and video display. Replace the disc player and video display. Refer to Disc Player and Video Display Replacement.

IMPORTANT: The following conditions assume that either the left or right audio channel in the wireless headphones are inoperative when listening to an audio source from the navigation radio head.

With U42 and NAV Radio

1. RSA right or left audio signal open, shorted to ground or shorted to battery positive voltage. Test the appropriate RSA right or left audio signal for an open, short to ground or a short to battery positive voltage. Refer to Circuit Testing and Wiring Repairs in Wiring Systems.
2. Inoperative speaker in the headphones. Test the system with a known good set of headphones. Replace the headphones if necessary.
3. Inoperative RSA right or left audio signal input in the disc player and video display. Replace the disc player and video display. Refer to Disc Player and Video Display Replacement.
4. Inoperative RSA right or left audio signal output in the radio. Replace the radio. Refer to Radio Replacement.

IMPORTANT: The following conditions assume that either the left or right audio channel in the wireless headphones are inoperative when

listening to television.

With U42 and TV

1. TV right or left audio signal open or shorted to ground. Test the appropriate TV right or left audio signal for an open or a short to ground. Refer to **Circuit Testing** and **Wiring Repairs** in Wiring Systems.
2. Inoperative speaker in the headphones. Test the system with a known good set of headphones. Replace the headphones if necessary.
3. Inoperative TV right or left audio signal input in the disc player and video display. Replace the disc player and video display. Refer to **Disc Player and Video Display Replacement**.
4. Inoperative RSA right or left audio signal output in the TV tuner. Replace the TV tuner. Refer to **Navigation System - Poor or Inoperative TV Reception** in Navigation Systems.

VIDEO DISPLAY IS POOR OR BLANK

Video Display is Poor or Blank

Step	Action	Yes	No
Schematic Reference: <u>Video System Schematics (U2X/U2Y)</u> or <u>Video System Schematics (U2V)</u> Connector End View Reference: <u>Entertainment Connector End Views</u> DEFINITION: This procedure diagnoses the cause of poor video quality in the rear disc player and video display whether viewing a DVD or television viewing (if equipped).			
1	Did you perform the Diagnostic System Check - Entertainment System?	Go to Step 2	Go to <u>Diagnostic System Check - Entertainment System</u>
2	Is the vehicle equipped with U2X or U2Y (TV)?	Go to Step 3	Go to Step 10
3	Test the operation of the entertainment system by viewing television in the navigation radio. Is the video quality poor in the navigation radio?	Go to <u>Navigation System - Poor or Inoperative TV Reception</u> in Navigation	Go to Step 4
4	Test the operation of the entertainment system by viewing television in the disc player and video display.		

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	Is the television video quality poor in the disc player and video display ?	Go to Step 5	Go to Step 7
5	Test the TV video (+) circuit for the following conditions: • Open • Short to ground Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 6
6	Test the TV video ground circuit for an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 7
7	Play a DVD in the navigation radio and view it in the rear disc player and video display. Is the video quality poor in the disc player and video display?	Go to Step 8	Go to Step 10
8	Test the avn video (+) circuit for the following conditions: • Open • Short to ground Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 9
9	Test the TV video ground circuit for an open. Refer to <u>Circuit Testing</u> and <u>Wiring Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 10
10	Test the operation of rear disc player and video display. Is the video quality normal?	Go to <u>Testing for Intermittent Conditions and Poor Connections</u> in	

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		Wiring Systems	Go to Step 11
11	Inspect for poor connections at the following connectors: • The disc player and video display • The TV tuner (if equipped) Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> in Wiring Systems. Did you find and correct the condition?	Go to Step 13	Go to Step 12
12	Replace the disc player and video display. Refer to <u>Disc Player and Video Display Replacement</u> . Did you complete the replacement?	Go to Step 13	-
13	Operate the system in order to verify the repair. Did you correct the condition?	System OK	-

RADIO SETUP

IMPORTANT: If the radio setup is not performed after replacing the radio, the digital radio receiver, vehicle communication interface module (VCIM), disc player and video display, and the steering wheel controls may not work properly. The radio may display a calibrate message on the display.

Radio Theft Procedure

IMPORTANT: The radio theft will learn the VIN. Without learning the VIN, the radio will display a locked message (LOC or LOCKED).

If the radio is replaced, perform a VIN Relearn, located in the Special Functions section on the scan tool. Cycle the ignition when complete.

Option Configuration

IMPORTANT: Do not perform this procedure for the navigation radio.

For option configuration select Special Functions under Radio and complete the setup procedure.

DIGITAL RADIO RECEIVER SETUP

IMPORTANT: The digital radio receiver setup option does not contain a submenu. Digital radio receiver setup will configure the following systems:

- DTCs
- GMLAN and class 2 radio messages

To setup the digital radio receiver, complete the setup procedure under the Special Functions menu of the scan tool, then cycle ignition.

XM Activation

IMPORTANT: After replacement of an XM receiver, call XM radio to deactivate the receiver that has been removed from the vehicle and activate the new XM radio receiver. The vehicle must be parked in view of a satellite within 24 hours after an activation call.

1. Turn the radio ON, tune to the XM channel 0, and record the radio ID. The radio ID will be needed for activation of the new receiver.
2. Call XM radio at 1-800-556-3600 to deactivate the faulty receiver and activate the new receiver.
3. Park the vehicle outside in an area with an unobstructed view of the southern sky.
4. Leave the vehicle outside with the ignition switch in the ACC position and the radio on for 30 minutes to activate XM service.
5. Once activated, the radio will receive the remaining XM channels.

SPEAKER REPLACEMENT REFERENCE

Speaker Replacement Reference

Component	Repair Instruction
Front Door Speaker	Refer to <u>Speaker Replacement - Front Door</u>
Front IP Speaker	Refer to <u>Speaker Replacement - Front</u>
Front Upper Speaker (Tweeter)	Refer to <u>Speaker Replacement - Front Upper</u>
Rear Door Speaker	Refer to <u>Speaker Replacement - Rear Door</u>

Rear Speaker
(Subwoofer)

Refer to **Speaker Replacement - Rear**

REPAIR INSTRUCTIONS

RADIO REPLACEMENT

Removal Procedure

1. Remove the center I/P air vents. Refer to **Deflector Replacement - Instrument Panel Air - Center** in HVAC.
2. Remove the HVAC programer/ashtray assembly. Refer to **HVAC Control Module Replacement** in HVAC Systems - Automatic.
3. Remove the 4 10 mm screws securing the radio to the I/P retainer.
4. Pull out the radio assembly.
5. Disconnect the electrical connectors.
6. Remove the radio from the vehicle.

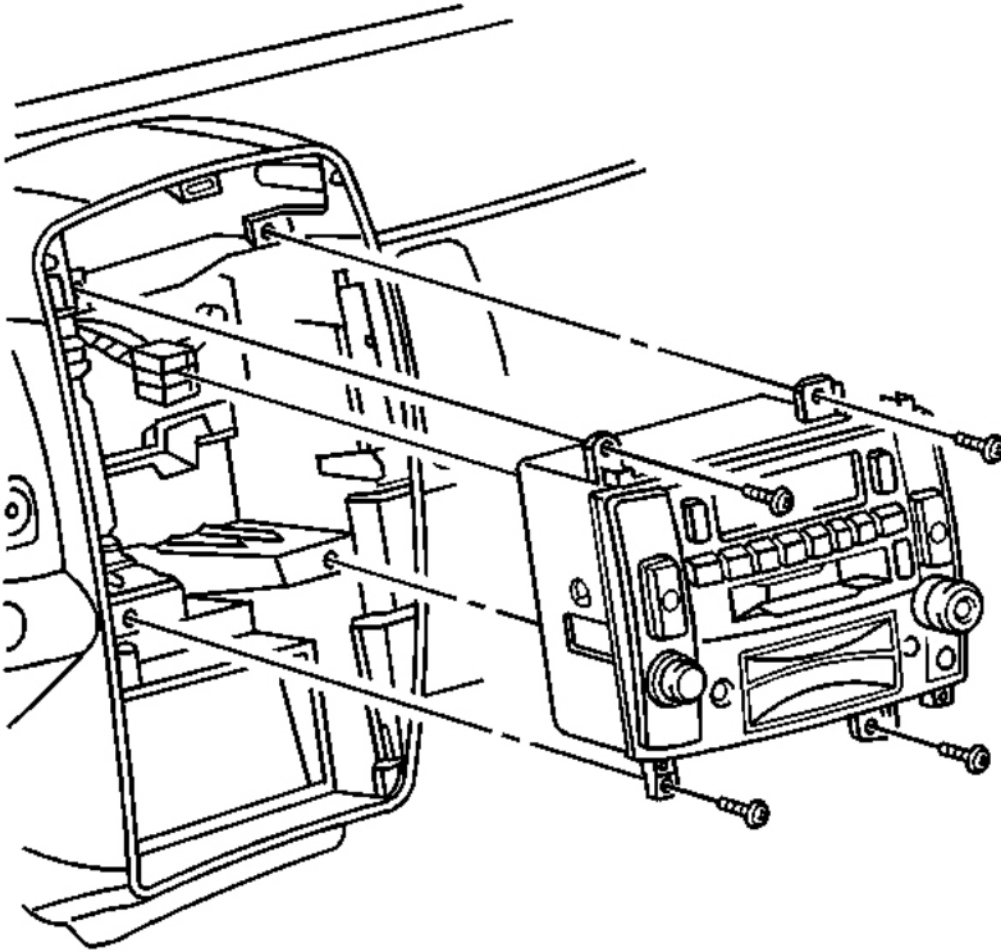


Fig. 21: View Of Radio

Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Connect the electrical connectors.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the radio assembly to the I/P retainer.

Tighten: Tighten the screws to 9 N.m (80 lb in).

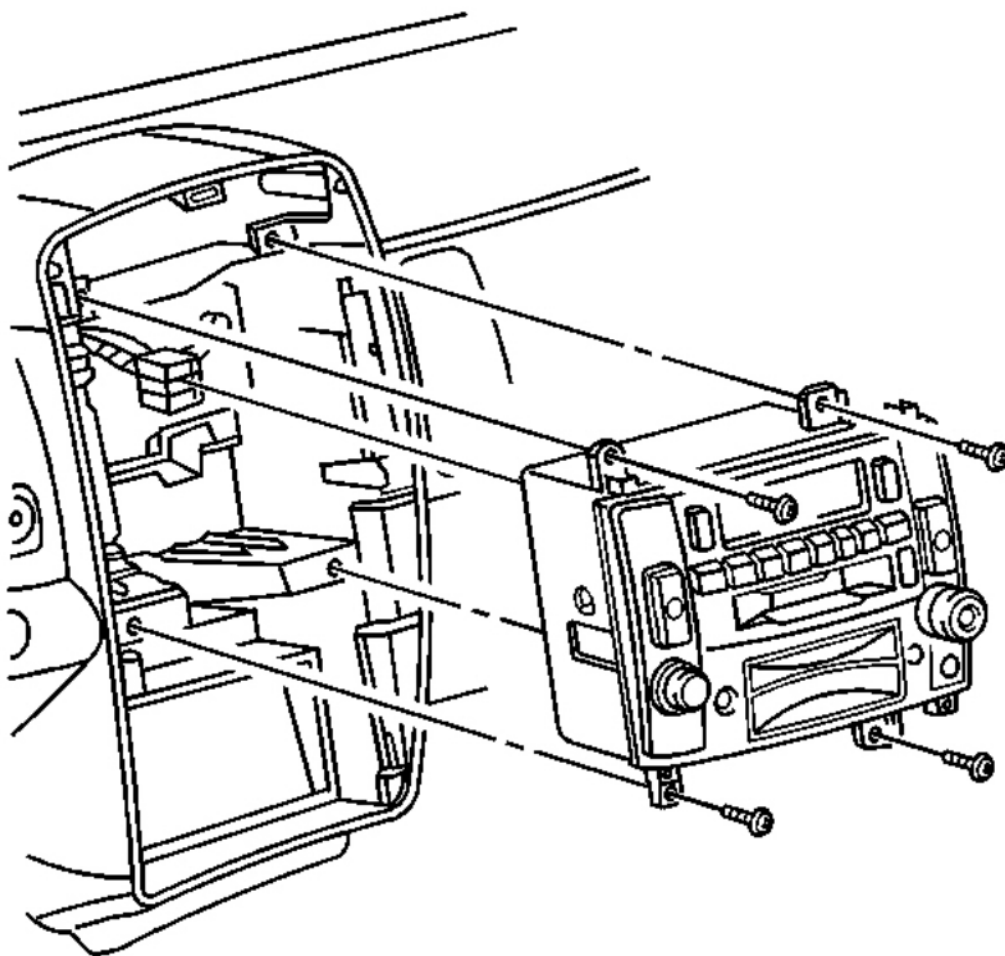


Fig. 22: View Of Radio

Courtesy of GENERAL MOTORS CORP.

3. Install the HVAC programmer/ashtray assembly. Refer to **HVAC Control Module Replacement** in HVAC Systems - Automatic.
4. Install the center I/P air vents. Refer to **Deflector Replacement - Instrument Panel Air - Center** in HVAC.
5. Reprogram the radio. Refer to **Radio Setup** in Body and Accessories-Entertainment.

RECEIVER REPLACEMENT - DIGITAL RADIO

Removal Procedure

IMPORTANT: Do not swap digital radio receivers between vehicles.
Swapping digital receivers between vehicles will activate the digital radio Theftlock, "XM Theftlock" will be displayed.

1. Remove the right body side trim. Refer to Trim Panel Replacement - Body Side Rear in Interior Trim.
2. Remove the fasteners securing the digital radio receiver.

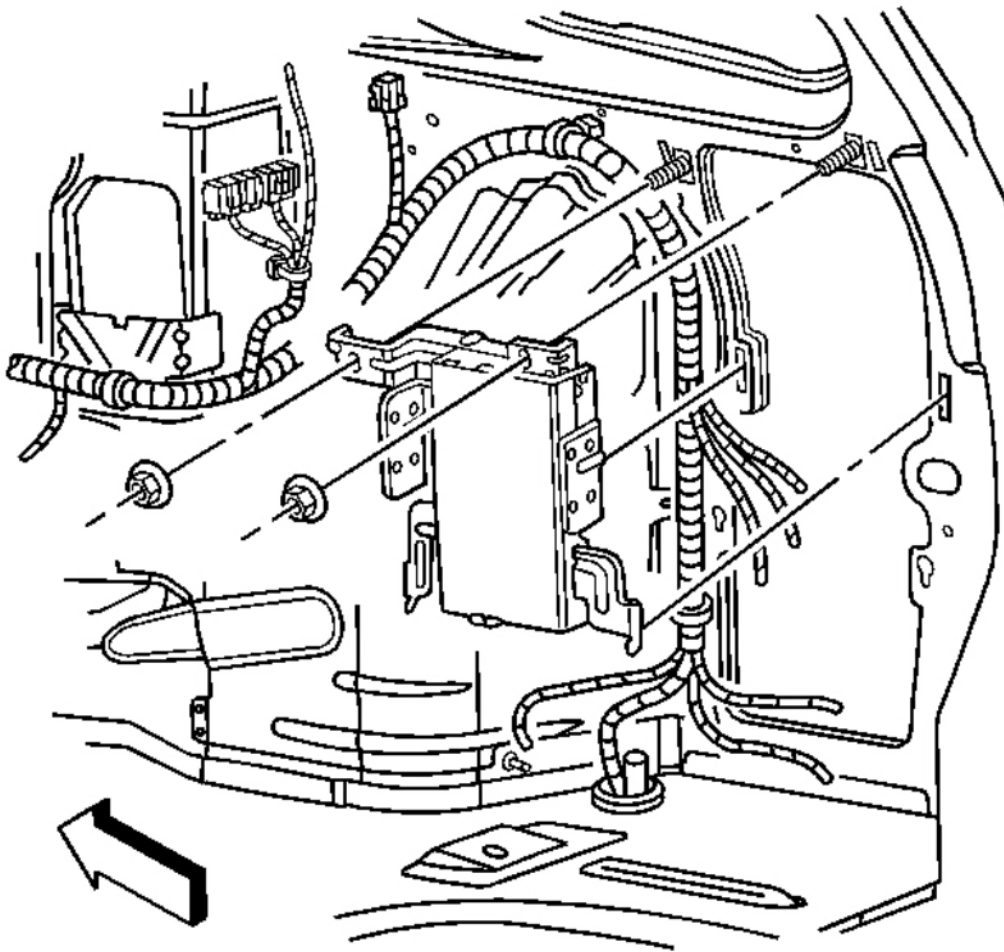


Fig. 23: View Of Digital Radio Receiver
Courtesy of GENERAL MOTORS CORP.

3. Disconnect the electrical connectors.

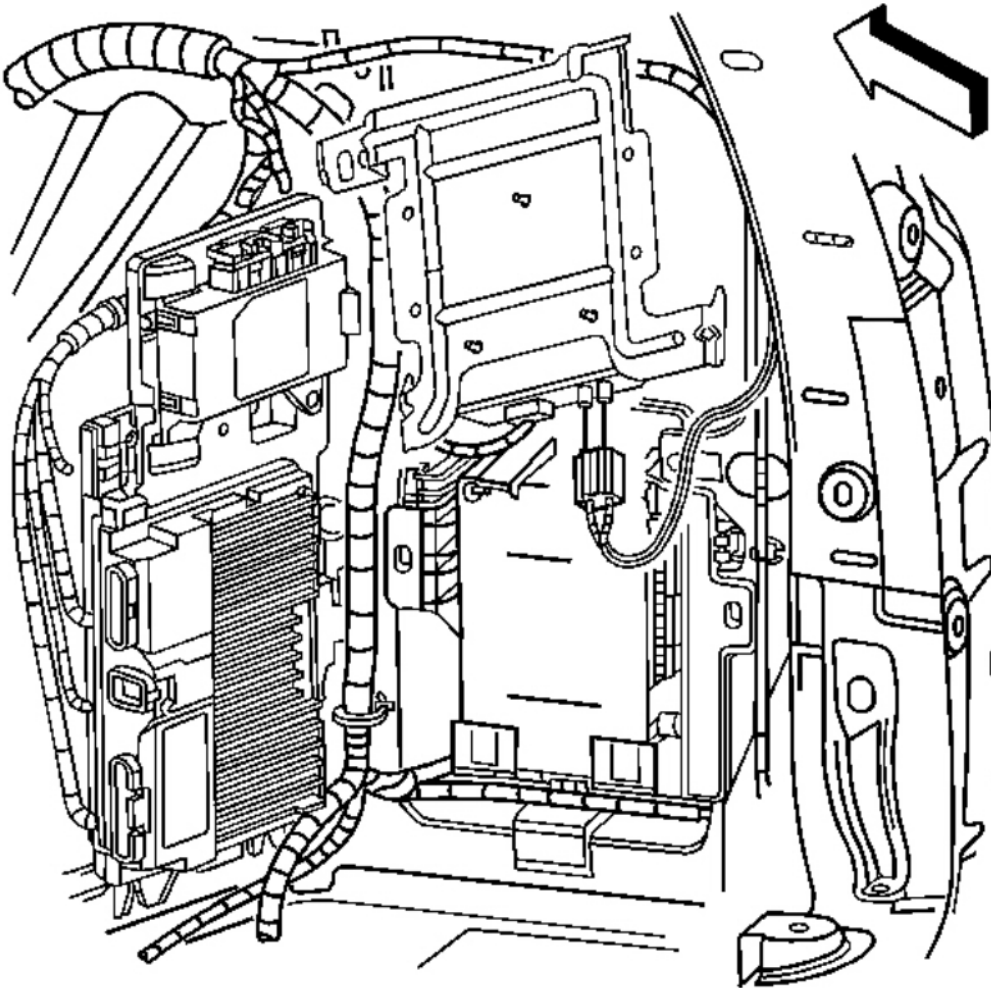


Fig. 24: View Of Digital Radio Receiver Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

4. Remove the receiver.

Installation Procedure

1. Connect the receiver electrical connectors.

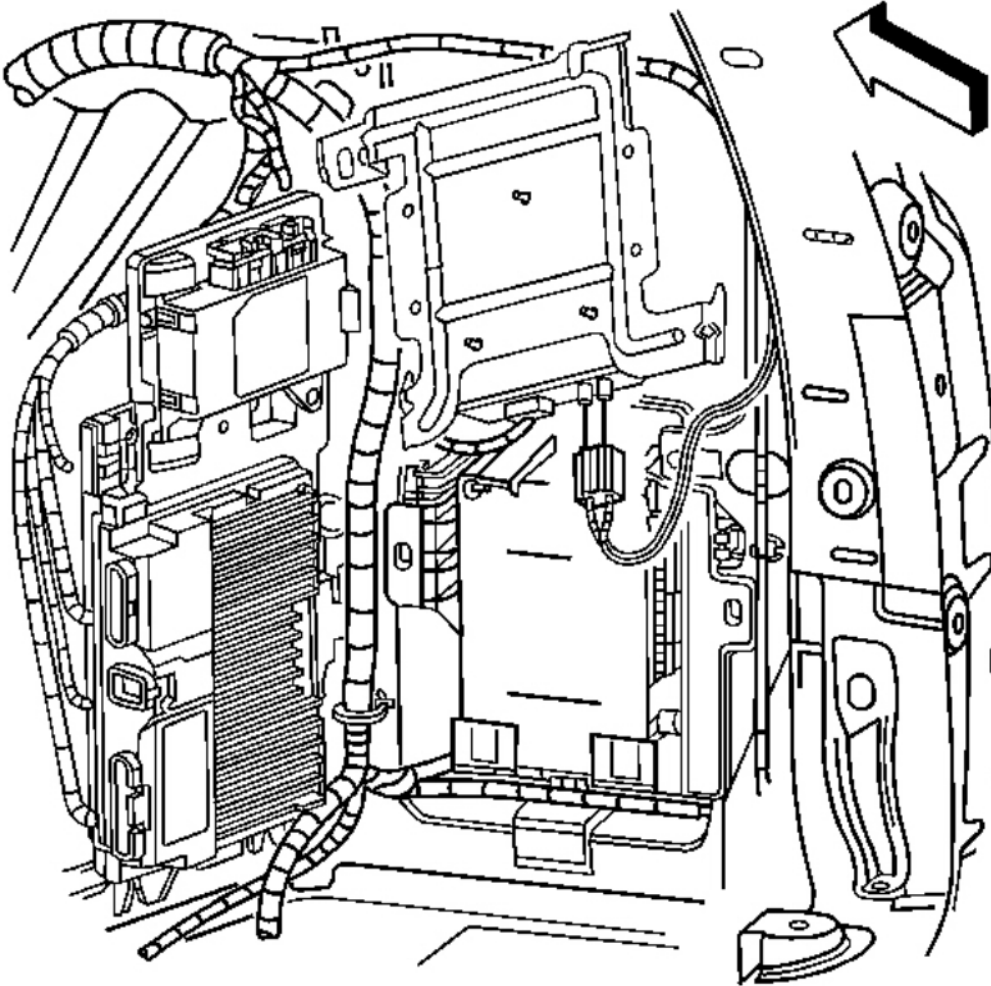


Fig. 25: View Of Digital Radio Receiver Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

2. Locate the receiver to the vehicle.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the fasteners securing the receiver to the vehicle.

Tighten: Tighten the fasteners to 9 N.m (80 lb in).

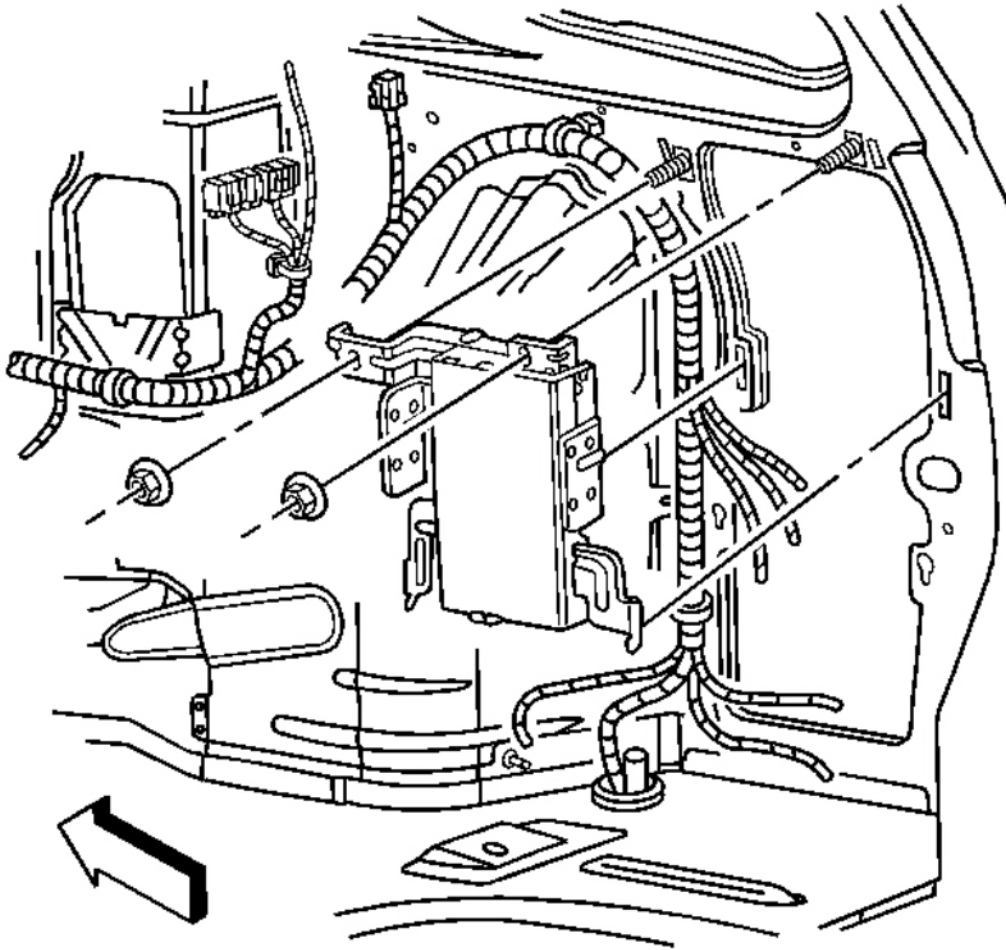


Fig. 26: View Of Digital Radio Receiver
Courtesy of GENERAL MOTORS CORP.

4. Install the right body side trim. Refer to **Trim Panel Replacement - Body Side Rear** in Interior Trim.
5. Perform the setup procedure for the digital radio receiver. Refer to **Digital Radio Receiver Setup** .

AMPLIFIER REPLACEMENT

Removal Procedure

1. Remove the body side trim panel. Refer to **HVAC Module Replacement - Auxiliary** in Heating, Ventilation and Air Conditioning.
2. Remove the fasteners securing the HVAC module.
3. Slide the HVAC module over to gain access to the amplifier.

Do not remove the HVAC module.

4. Remove the fasteners securing the amplifier bracket to the vehicle.

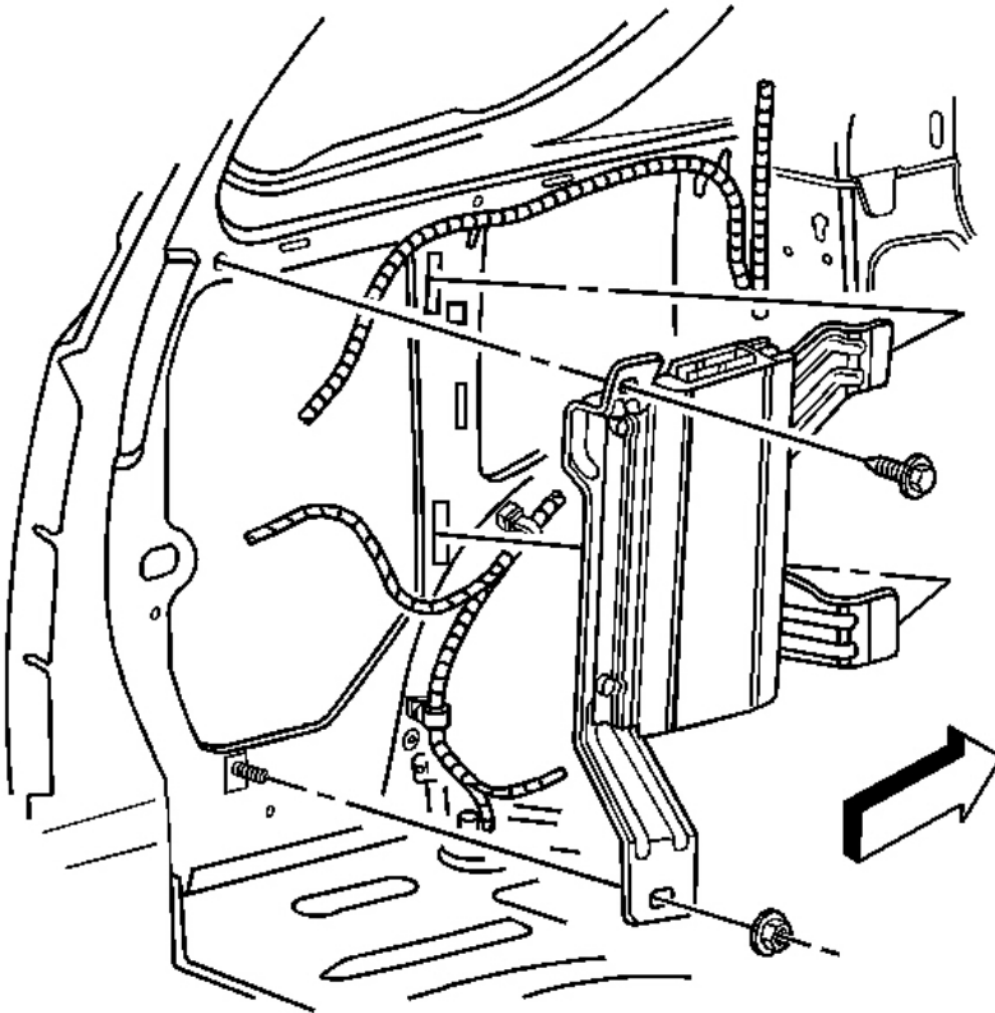


Fig. 27: View Of Amplifier Bracket
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the electrical connectors (1).

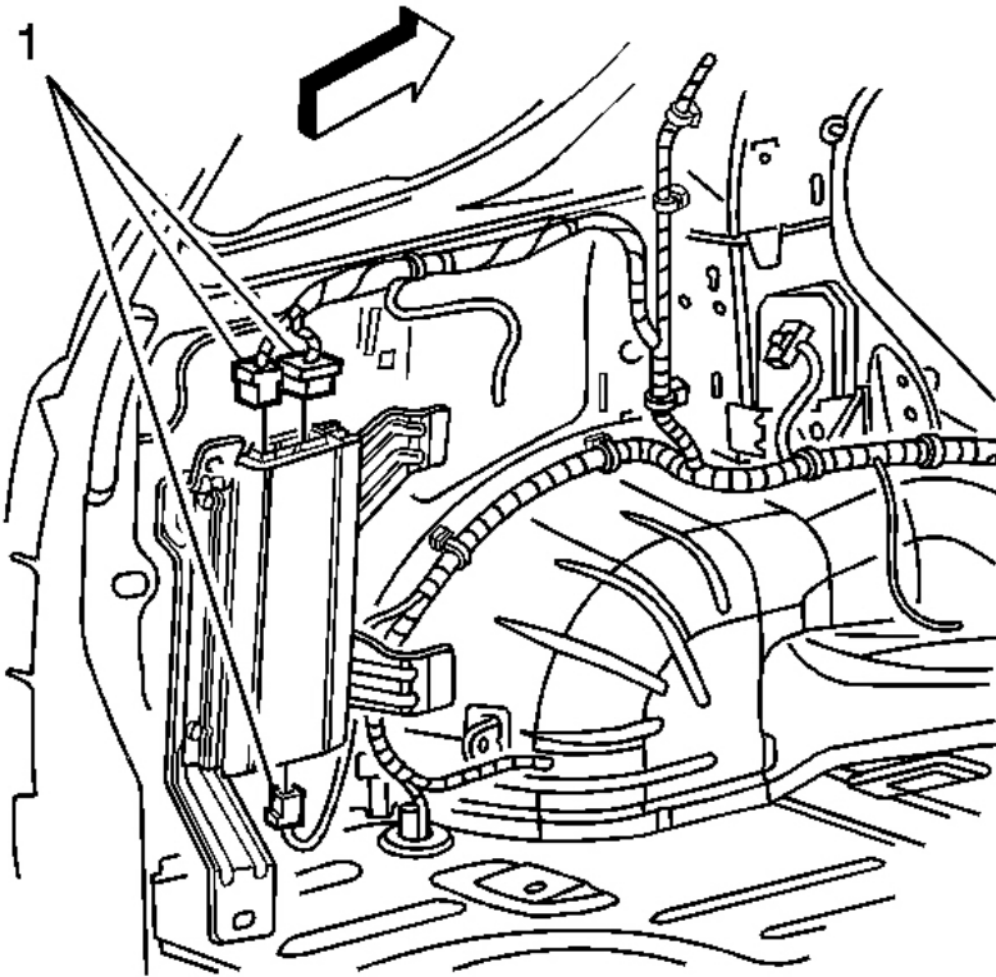


Fig. 28: View Of Amplifier Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

6. Remove the amplifier from the bracket.

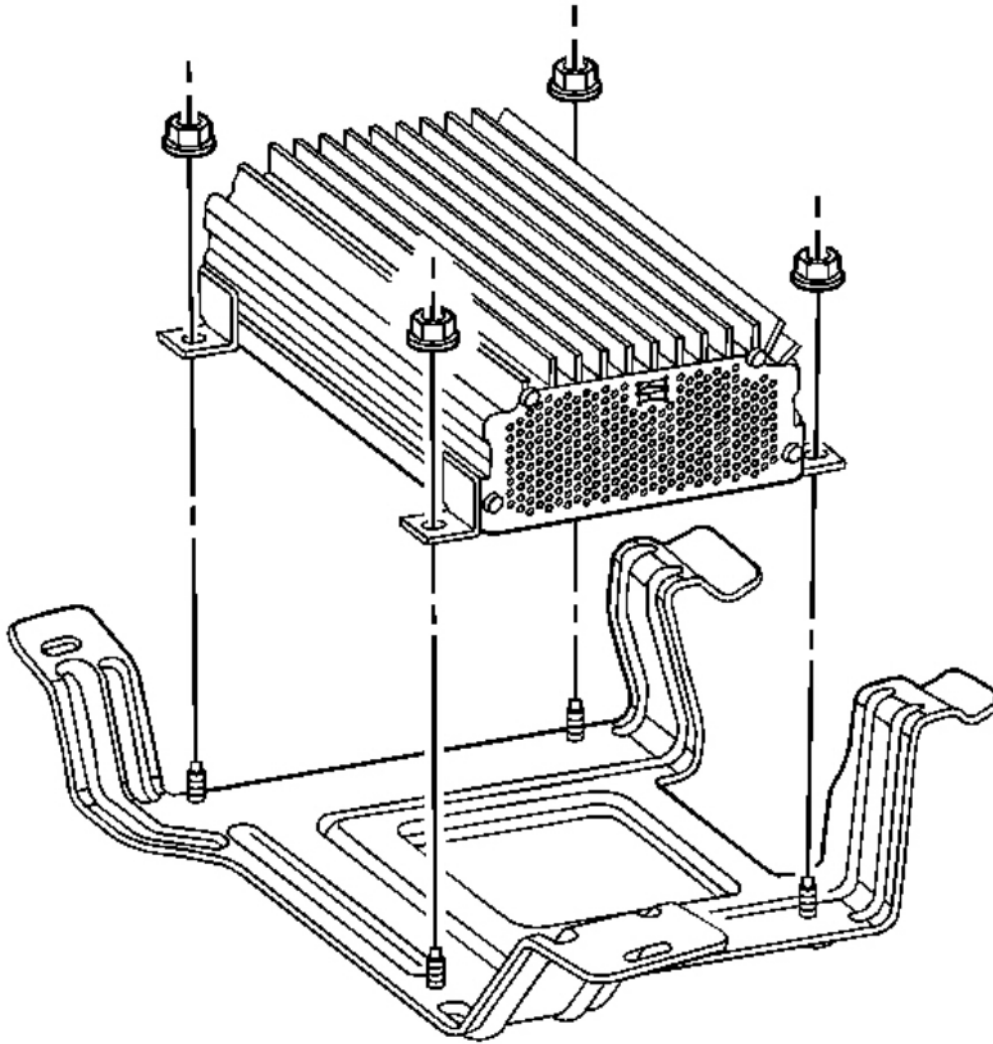


Fig. 29: View Of Amplifier
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

NOTE: Refer to Fastener Notice in Cautions and Notices.

1. Install the amplifier to the bracket.

Tighten: Tighten the fasteners to 9 N.m (80 lb in).

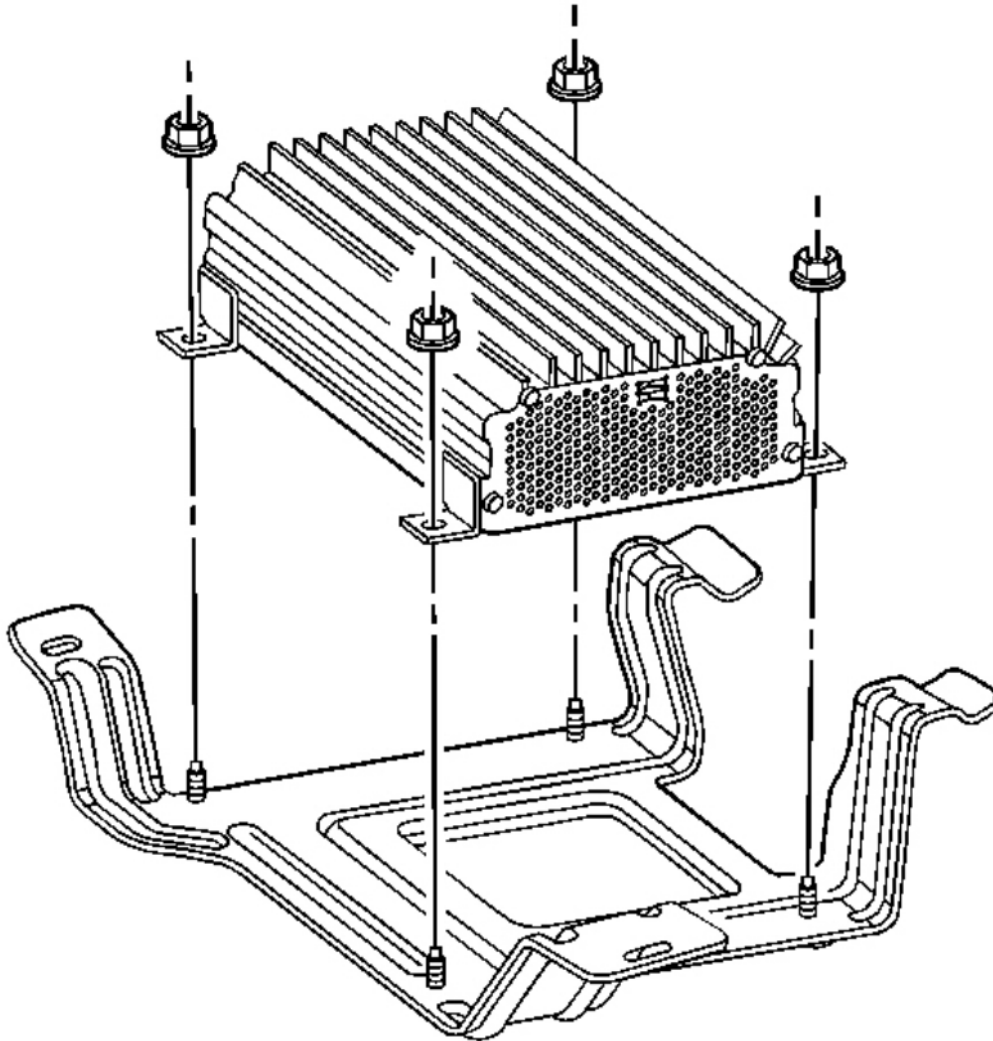


Fig. 30: View Of Amplifier
Courtesy of GENERAL MOTORS CORP.

2. Connect the electrical connectors (1).

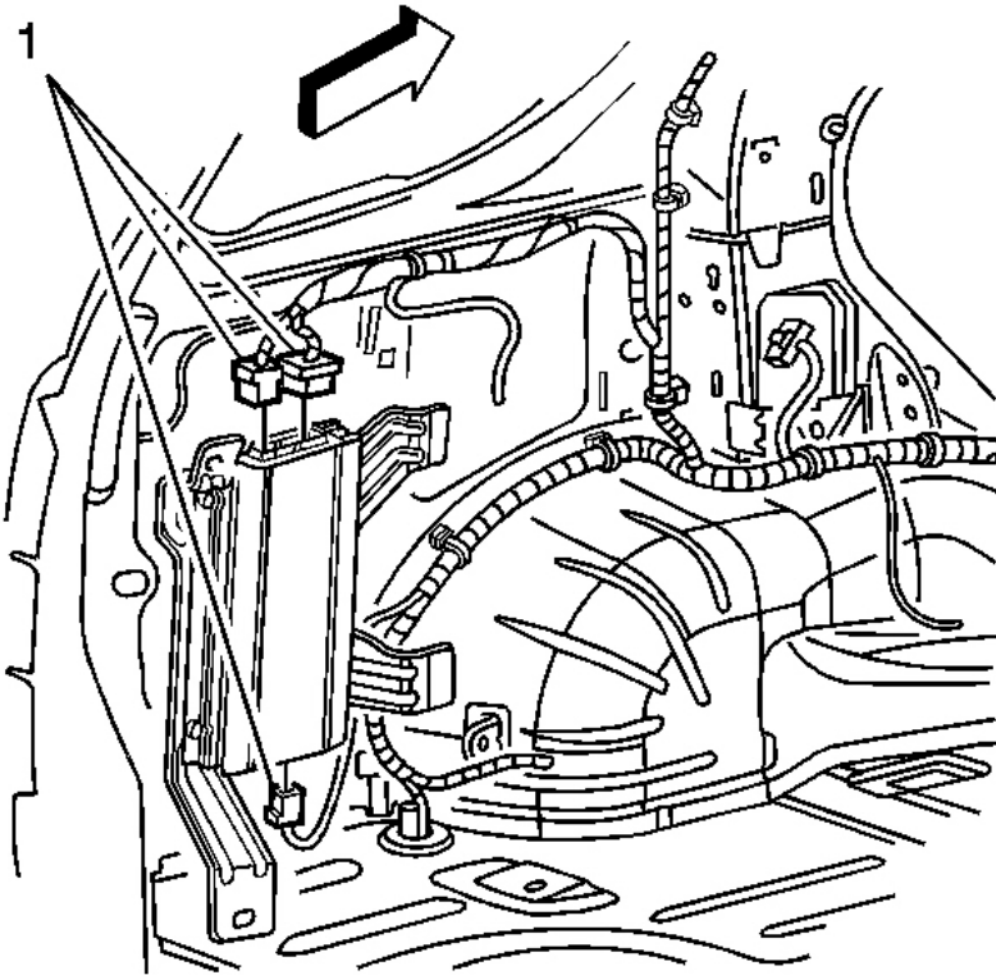


Fig. 31: View Of Amplifier Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

3. Install the amplifier bracket to the vehicle.

Tighten: Tighten the fasteners to 9 N.m (80 lb in).

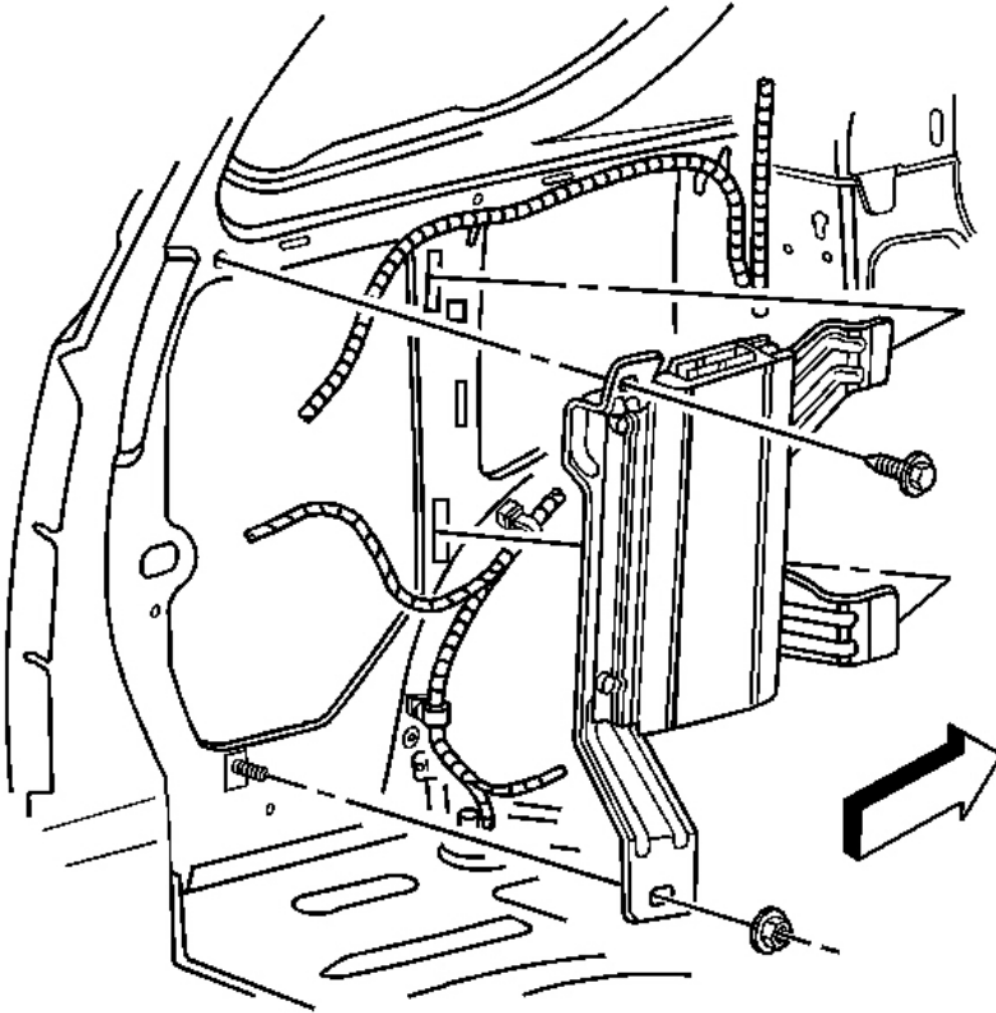


Fig. 32: View Of Amplifier Bracket
Courtesy of GENERAL MOTORS CORP.

4. Install the HVAC module.
5. Install the body side trim panel. Refer to **HVAC Module Replacement - Auxiliary** in Interior Trim.

REMOTE CD CHANGER REPLACEMENT

Removal Procedure

1. Remove the radio. Refer to **Radio Replacement** .
2. Remove the screws that retain the remote CD changer to the radio.
3. Disconnect the electrical lead from the radio to the CD changer and remove the changer from the vehicle.

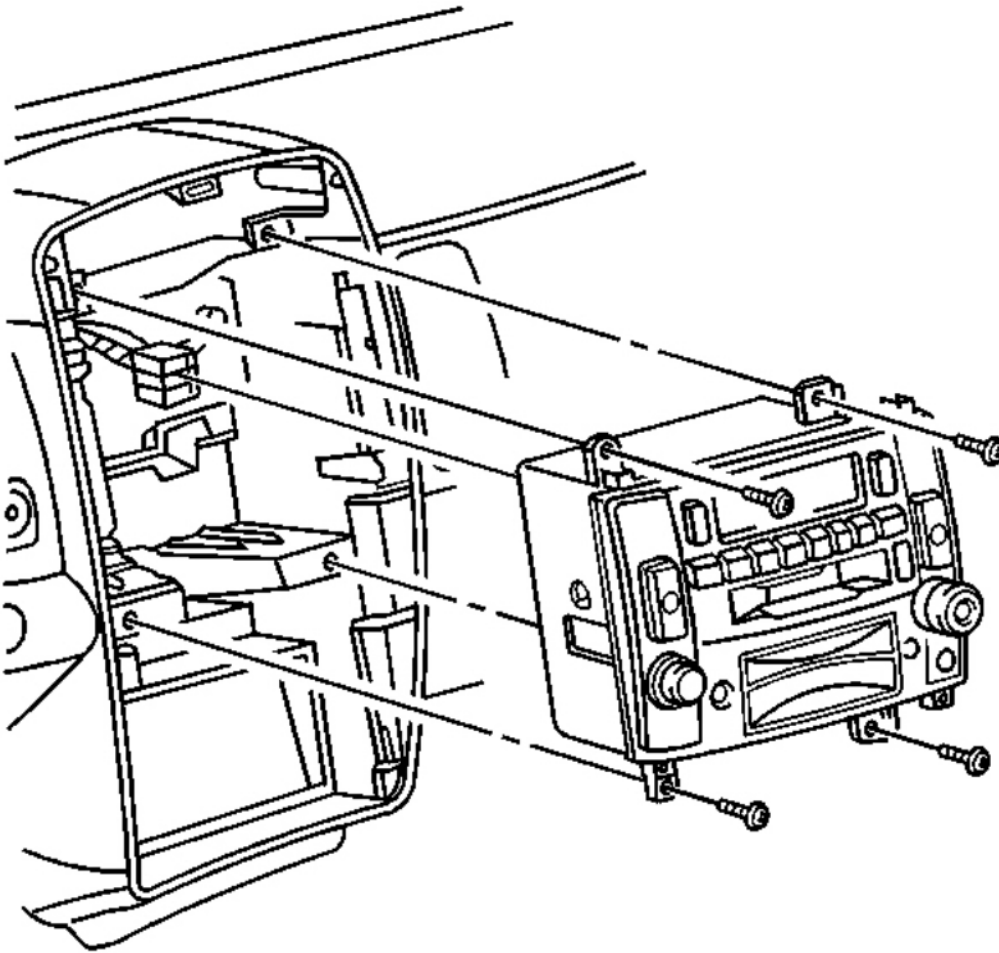


Fig. 33: View Of Radio
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Position the remote CD changer to the radio and connect the electrical lead.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the retaining screws that secure the CD changer to the radio.

Tighten: Tighten the screws to 2.5 N.m (22 lb in).

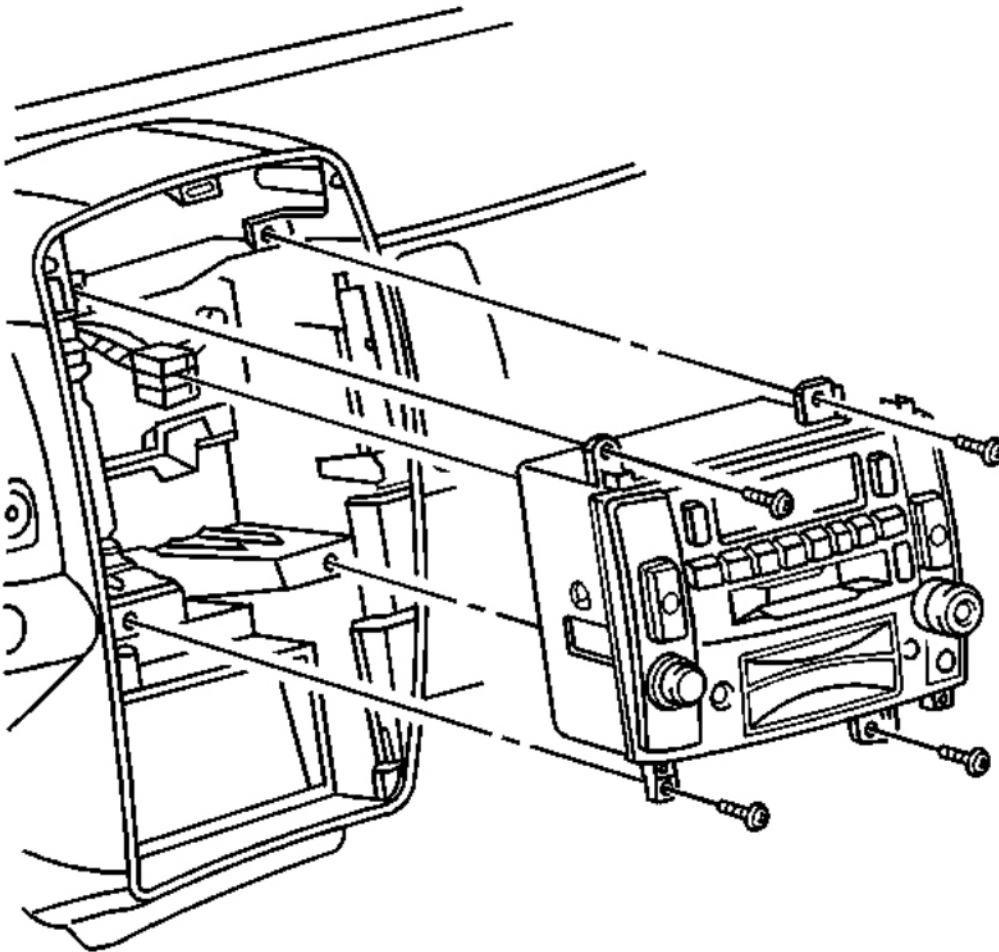


Fig. 34: View Of Radio

Courtesy of GENERAL MOTORS CORP.

3. Connect the electrical/audio and coaxial cable connectors to the radio.
4. Install the radio. Refer to Radio Replacement .

MICROPHONE REPLACEMENT - RADIO VOLUME COMPENSATOR INTERIOR

Removal Procedure

1. Pull down the overhead console to release the retainers securing it to the headliner.
2. Lower the overhead console.
3. Disconnect the microphone electrical connector.

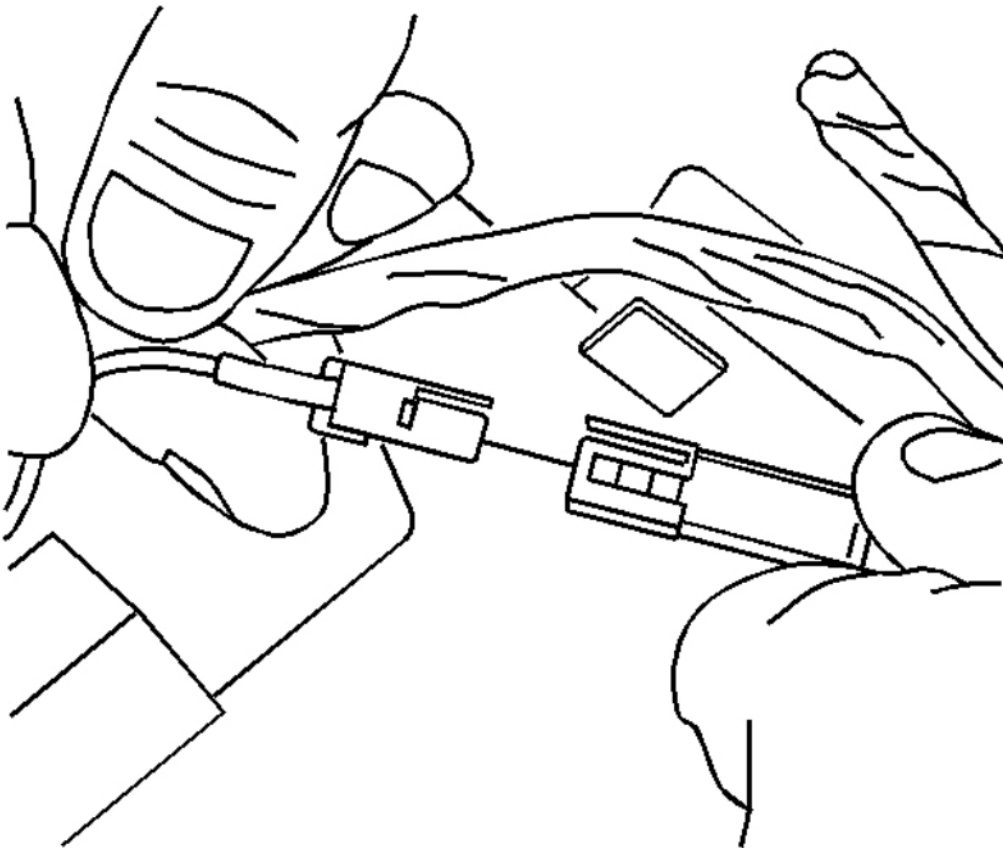


Fig. 35: View Of Microphone Electrical Connector
Courtesy of GENERAL MOTORS CORP.

4. Remove the microphone retaining screws.
5. Remove the microphone (1).

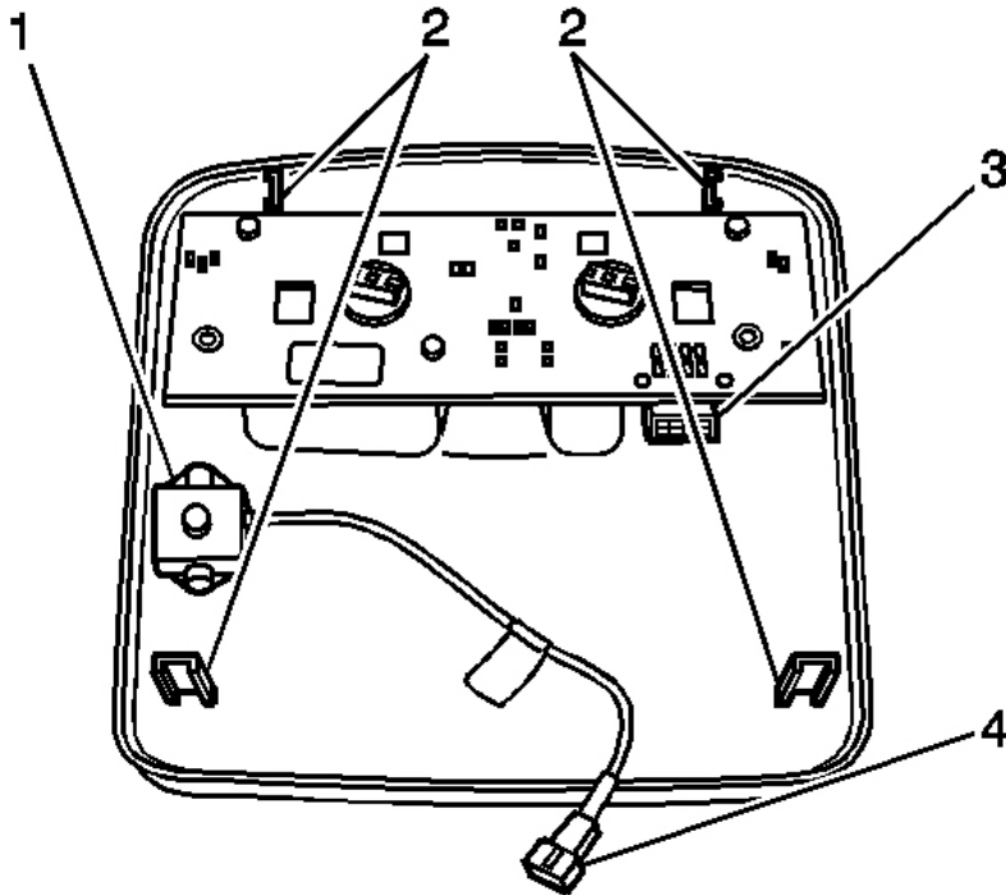


Fig. 36: Locating Overhead Console Components
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Install the microphone (1).

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the microphone retaining screws.

Tighten: Tighten the screws to 2 N.m (18 lb in)

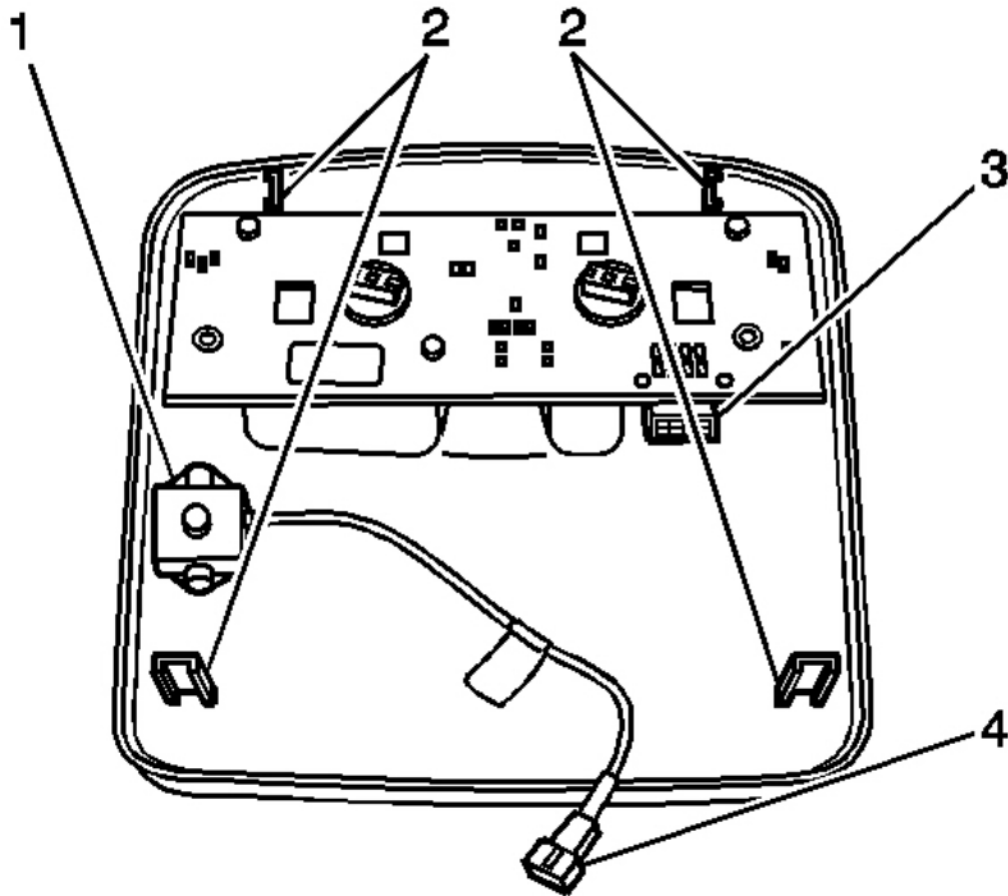


Fig. 37: Locating Overhead Console Components
Courtesy of GENERAL MOTORS CORP.

3. Connect the microphone electrical connector.

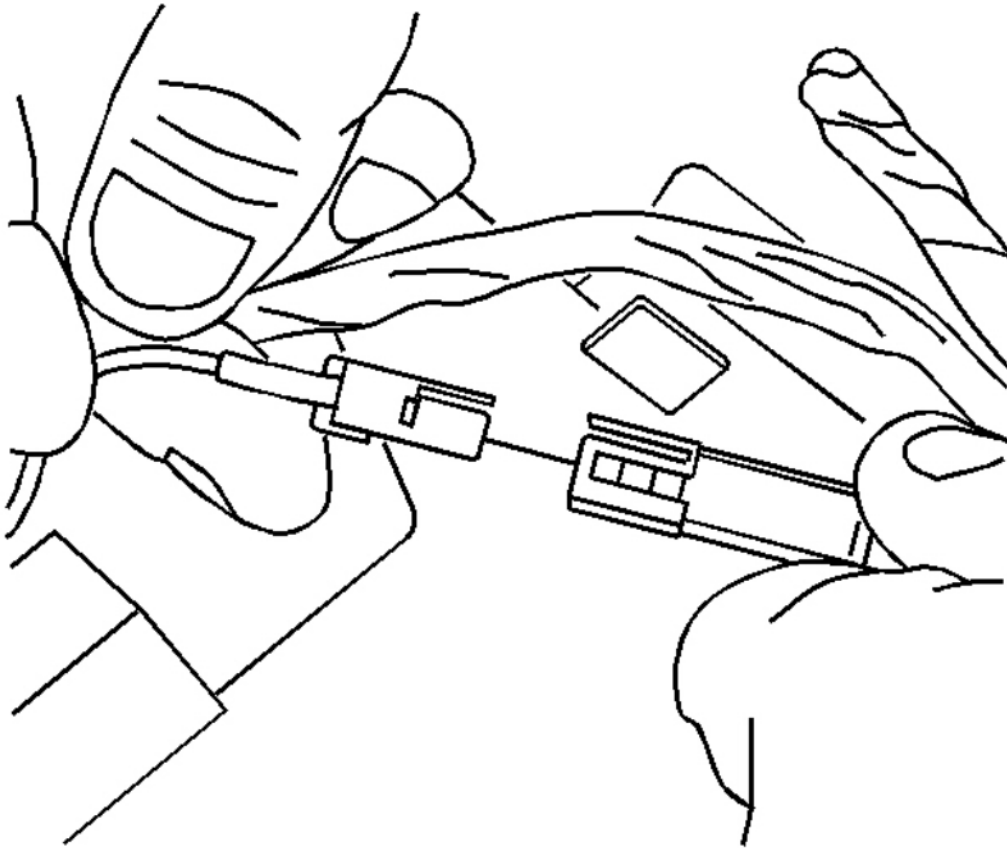


Fig. 38: View Of Microphone Electrical Connector
Courtesy of GENERAL MOTORS CORP.

4. Install the console retainers to the headliner bracket.
5. Push up on the console to secure it to the headliner.

ANTENNA MODULE REPLACEMENT (PASSENGER SIDE)

Removal Procedure

1. Remove the rear opening weatherstrip.
2. Remove the rear quarter trim panels. Refer to **Garnish Molding Replacement - Body Side Rear Upper**.
3. Loosen the front quarter trim panels. Refer to **Garnish Molding Replacement - Side**

Door Opening Frame .

4. Remove the rear coat hooks.
5. Remove the rear park assist display.
6. Pull the headliner down carefully to access the antenna module.
7. Disconnect the coax cables.
8. Disconnect the electrical connector.
9. Slide the antenna module (1) off the mounting bracket.

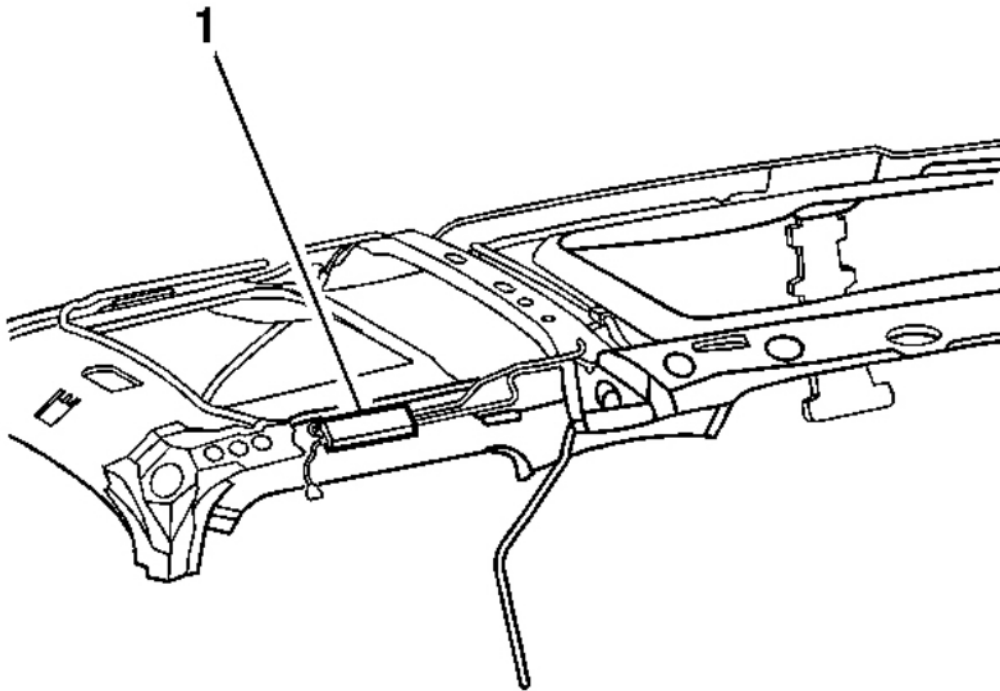


Fig. 39: Locating Antenna Module - Passenger Side
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Install the antenna module (1) to the mounting bracket.

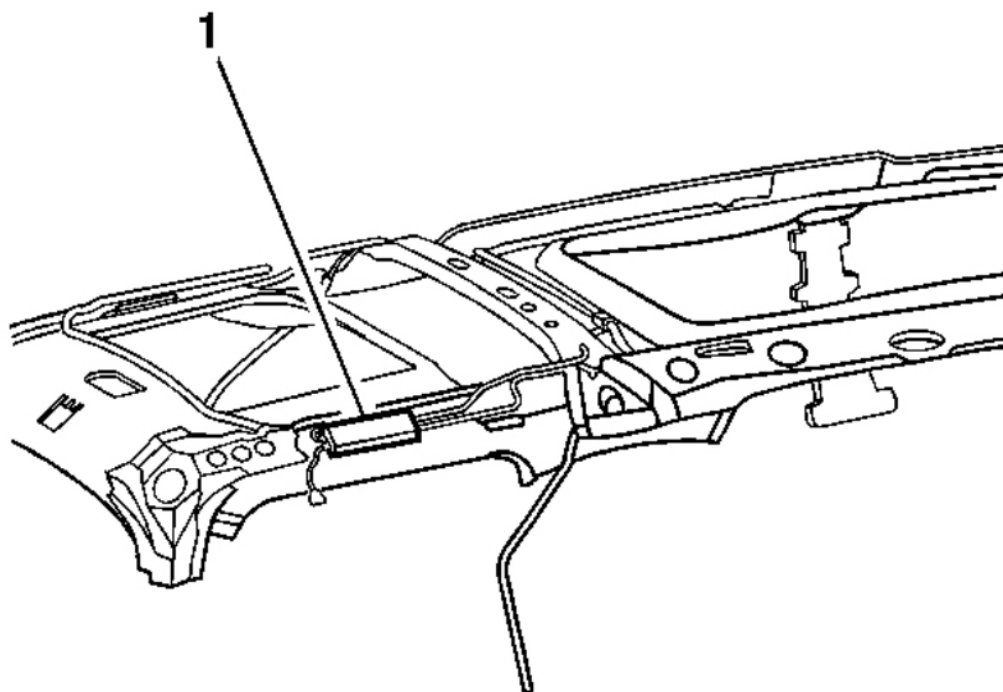


Fig. 40: Locating Antenna Module - Passenger Side
Courtesy of GENERAL MOTORS CORP.

2. Connect all the electrical connectors.
3. Install the headliner. Refer to **Headliner Replacement** in Interior Trim.
4. Install the rear park assist display.

NOTE: Refer to **Fastener Notice** .

5. Install the rear coat hooks.

Tighten: Tighten the fasteners to 10 N.m (88 lb in).

6. Install the front quarter trim panels. Refer to **Garnish Molding Replacement - Side Door Opening Frame** .
7. Install the rear quarter trim panels. Refer to **Garnish Molding Replacement - Body Side Rear Upper** .

8. Install the rear opening weatherstrip.

ANTENNA MODULE REPLACEMENT (DRIVER SIDE)

Removal Procedure

1. Remove the rear opening weatherstrip.
2. Remove the rear quarter trim panels. Refer to **Garnish Molding Replacement - Body Side Rear Upper** .
3. Loosen the front quarter trim panels. Refer to **Garnish Molding Replacement - Side Door Opening Frame** .
4. Remove the rear coat hooks.
5. Remove the rear park assist display.
6. Pull the headliner down carefully to access the antenna module.
7. Disconnect the coax cables.
8. Disconnect the electrical connector.
9. Slide the radio control module (1) off the mounting bracket.

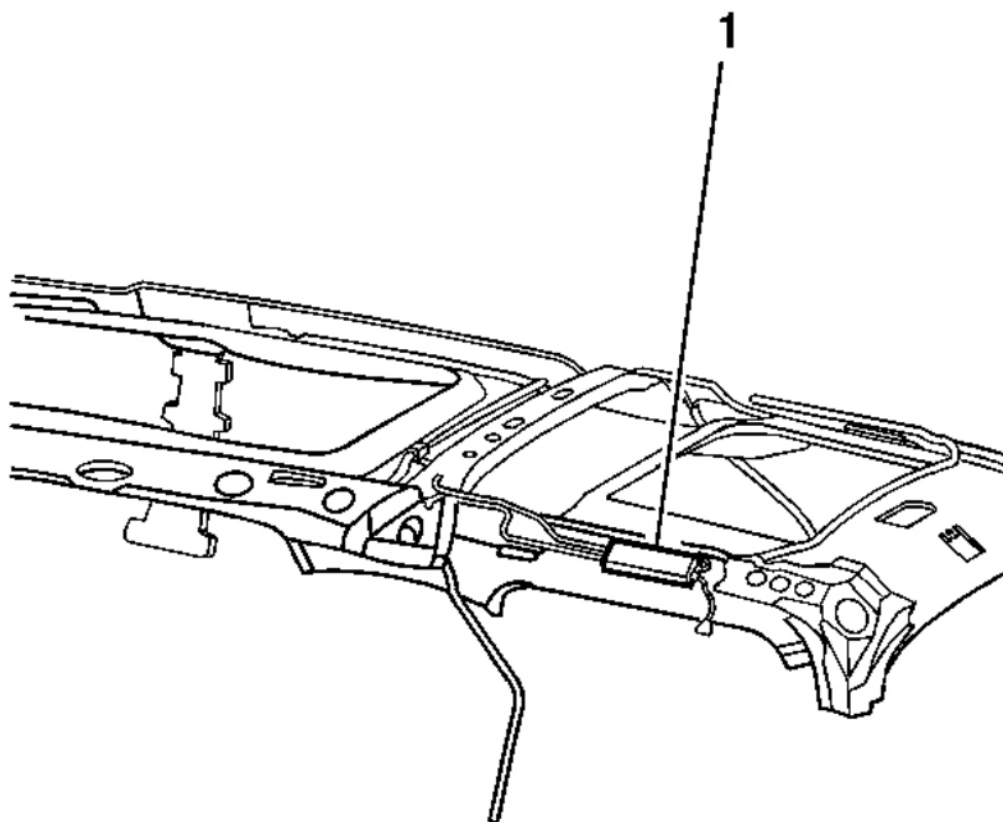


Fig. 41: Locating Radio Control Module
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Install the radio control module (1) to the mounting bracket.

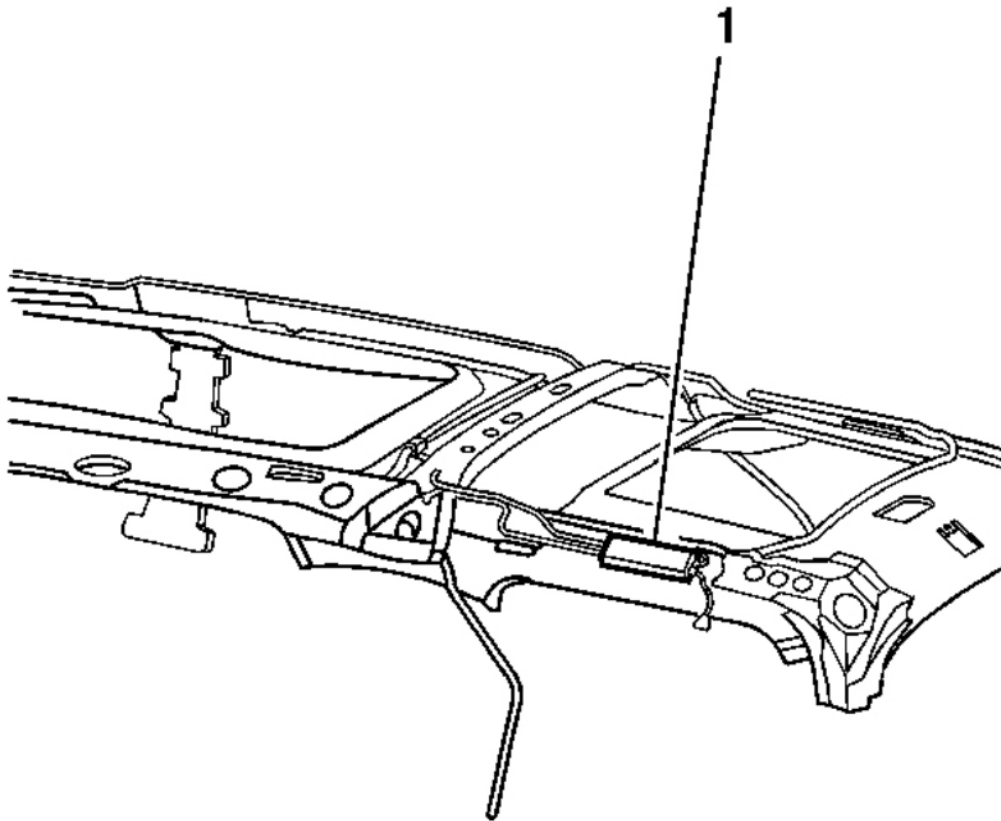


Fig. 42: Locating Radio Control Module
Courtesy of GENERAL MOTORS CORP.

2. Connect all the electrical connectors.
3. Install the headliner.
4. Install the rear park assist display.

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

5. Install the rear coat hooks.

Tighten: Tighten the fasteners to 10 N.m (88 lb in).

6. Install the front quarter trim panels. Refer to **Garnish Molding Replacement - Side Door**

Opening Frame .

7. Install the rear quarter trim panels. Refer to **Garnish Molding Replacement - Body Side Rear Upper** .
8. Install the rear opening weatherstrip.
9. Reprogram the keyless entry transmitter. Refer to **Transmitter Programming** in Keyless Entry.
10. Reprogram the tire pressure sensors. Refer to **Tire Pressure Sensor Learn** in Tire Pressure Monitoring.

ANTENNA REPLACEMENT - DIGITAL RADIO**Removal Procedure**

NOTE: **DO NOT apply paint or clear coat to the antenna. This will damage the function of the antenna, causing poor reception or loss of signal reception.**

NOTE: **Use care when removing or installing the headliner. Excessive bending will damage the headliner.**

1. Lower the headliner in order to access the antenna. Refer to **Headliner Replacement** in Interior Trim.
2. Disconnect the cables (4) from the antenna base (1).
3. Remove the bolt (3) and expansion sleeve (2).
4. Remove the antenna base (1) from the roof.

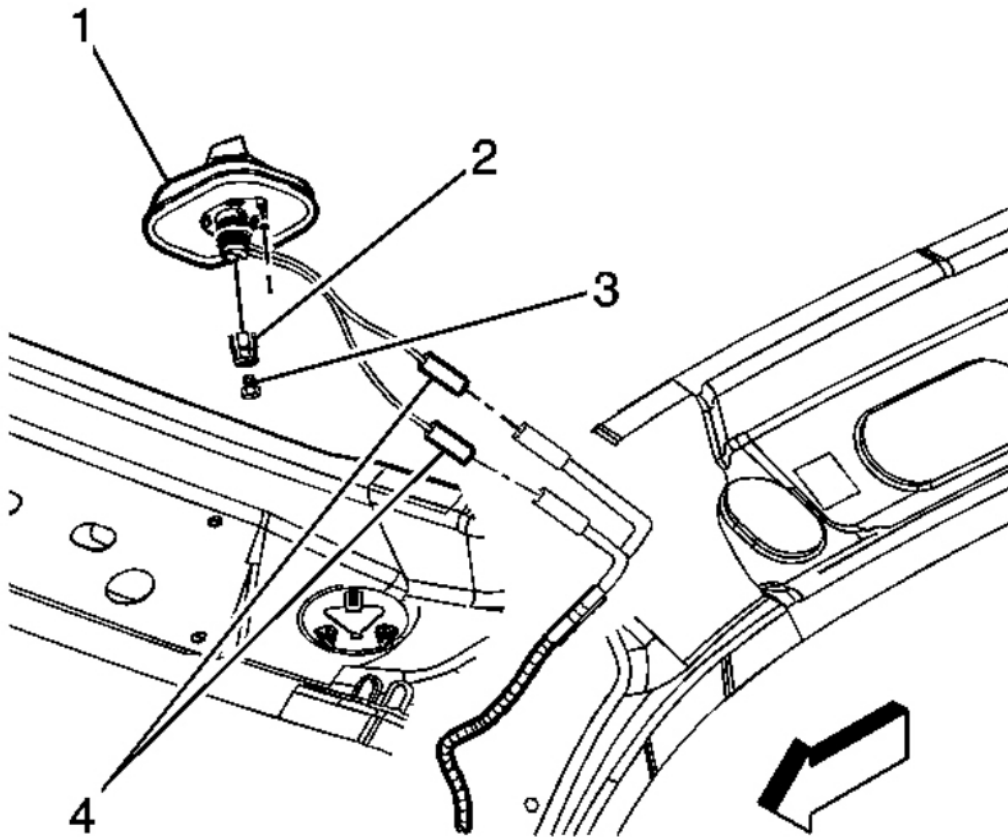


Fig. 43: View Of Digital Radio Antenna Base
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Place the antenna base to the roof opening.

NOTE: Refer to Fastener Notice in Cautions and Notices.

2. Install the expansion sleeve (2) and the bolt (3).

Tighten: Tighten the nut to 6 N.m (53 lb in).

3. Connect the antenna cables (4).

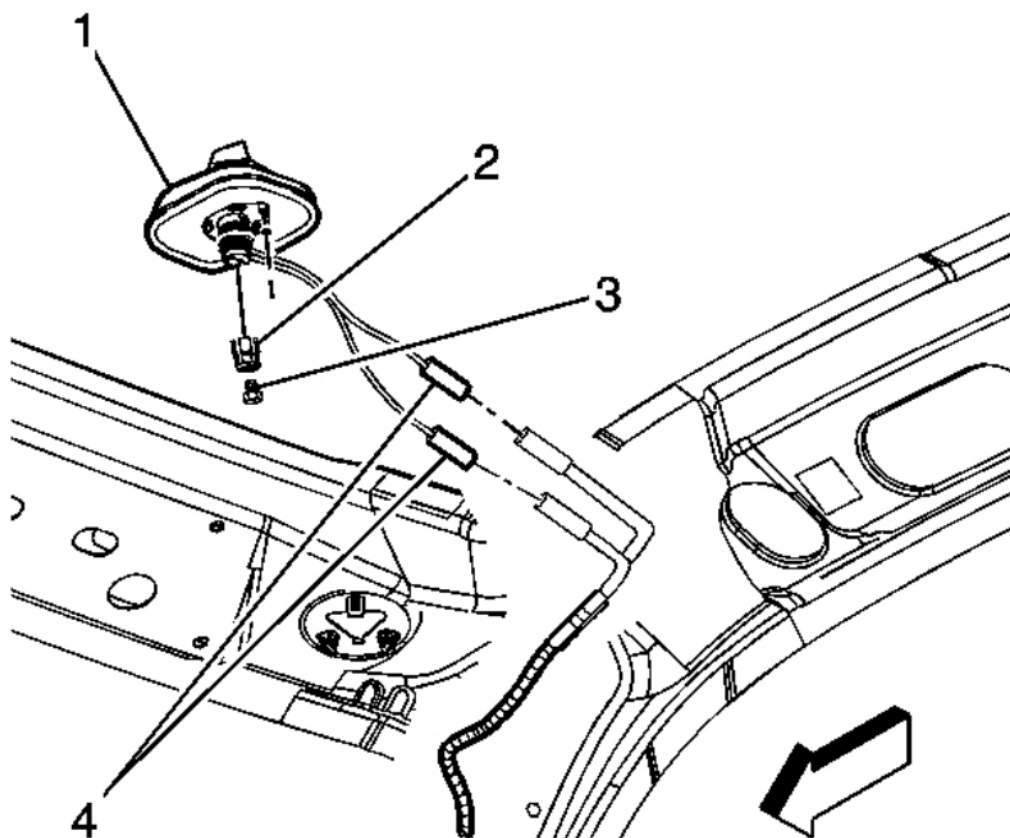


Fig. 44: View Of Digital Radio Antenna Base
Courtesy of GENERAL MOTORS CORP.

4. Install the headliner. Refer to **Headliner Replacement** in Interior Trim.

COAXIAL CABLE REPLACEMENT - DIGITAL RADIO

Removal Procedure

1. Remove the right rear body side trim. Refer to **Trim Panel Replacement - Body Side Rear** in Interior Trim.
2. Remove the right rear body side garnish molding. Refer to **Garnish Molding Replacement - Body Side Rear Upper** in Interior Trim.
3. Remove the headliner. Refer to **Headliner Replacement** in Interior Trim.

4. Disconnect the digital antenna connector from the receiver.

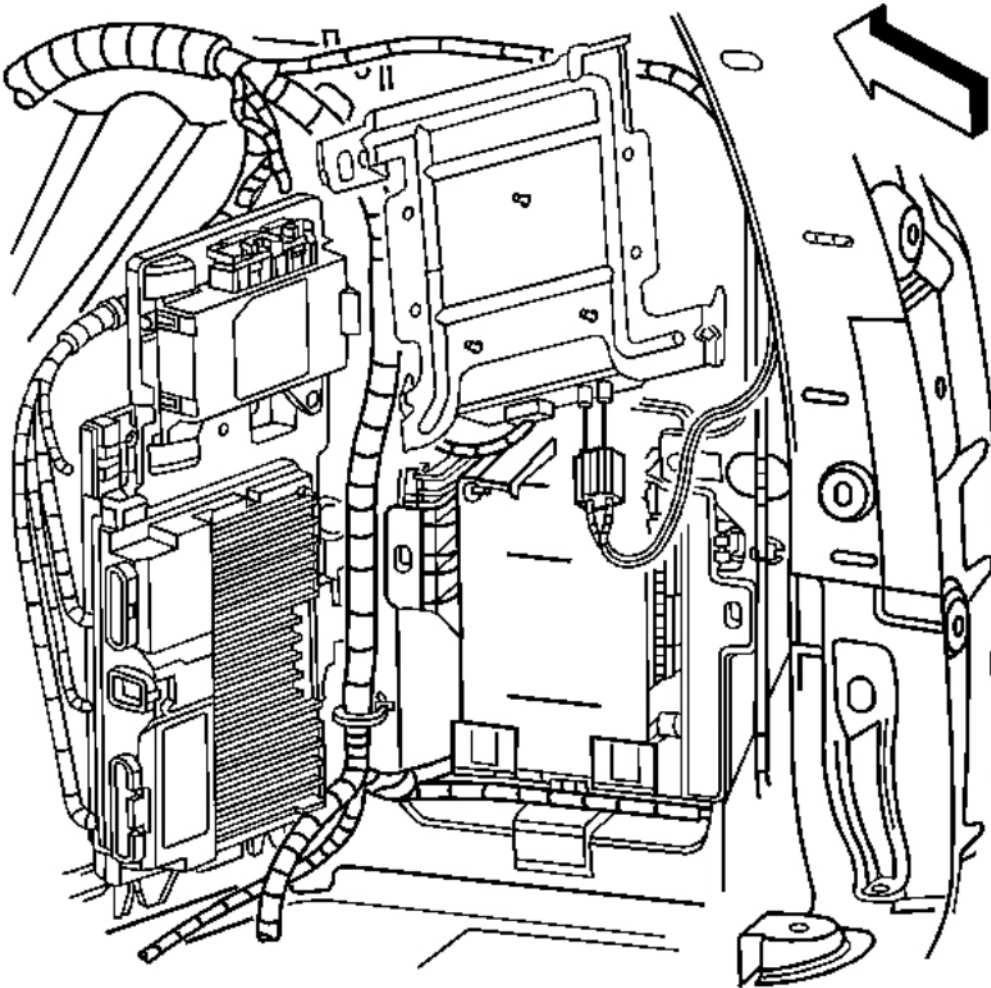


Fig. 45: View Of Digital Radio Receiver Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

5. Disconnect the digital antenna cable connector from the antenna.
6. Remove the cable.

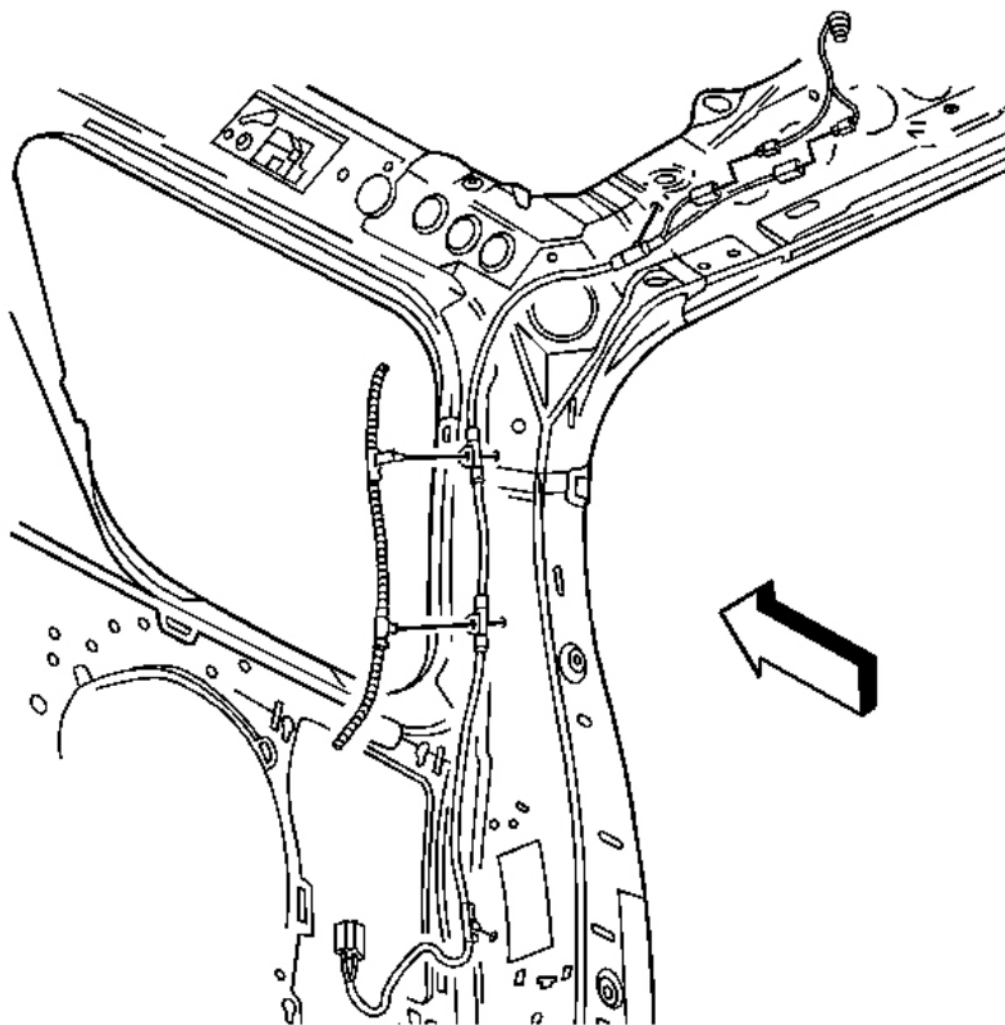


Fig. 46: View Of Digital Antenna Cable
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Install the cable to the vehicle.
2. Connect the digital antenna cable connector to the antenna.

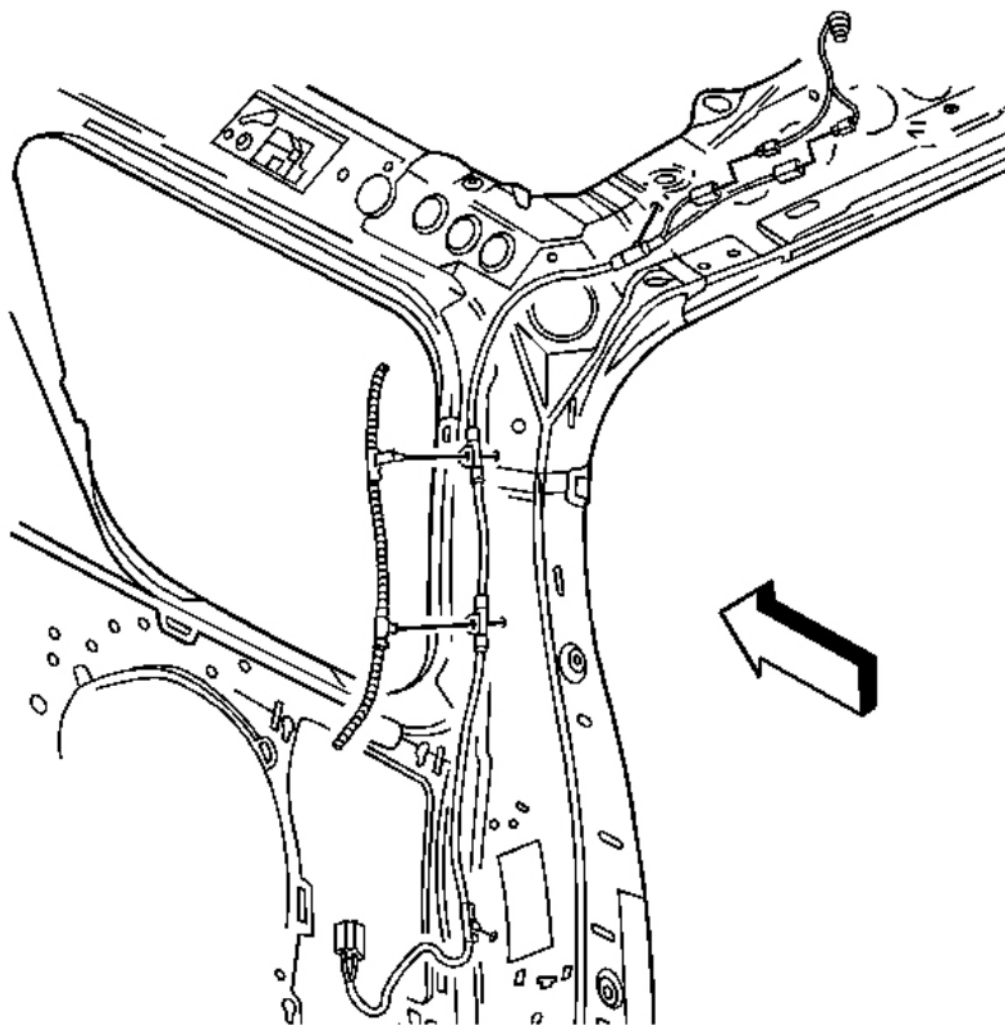


Fig. 47: View Of Digital Antenna Cable
Courtesy of GENERAL MOTORS CORP.

3. Connect the digital antenna connector to the receiver.

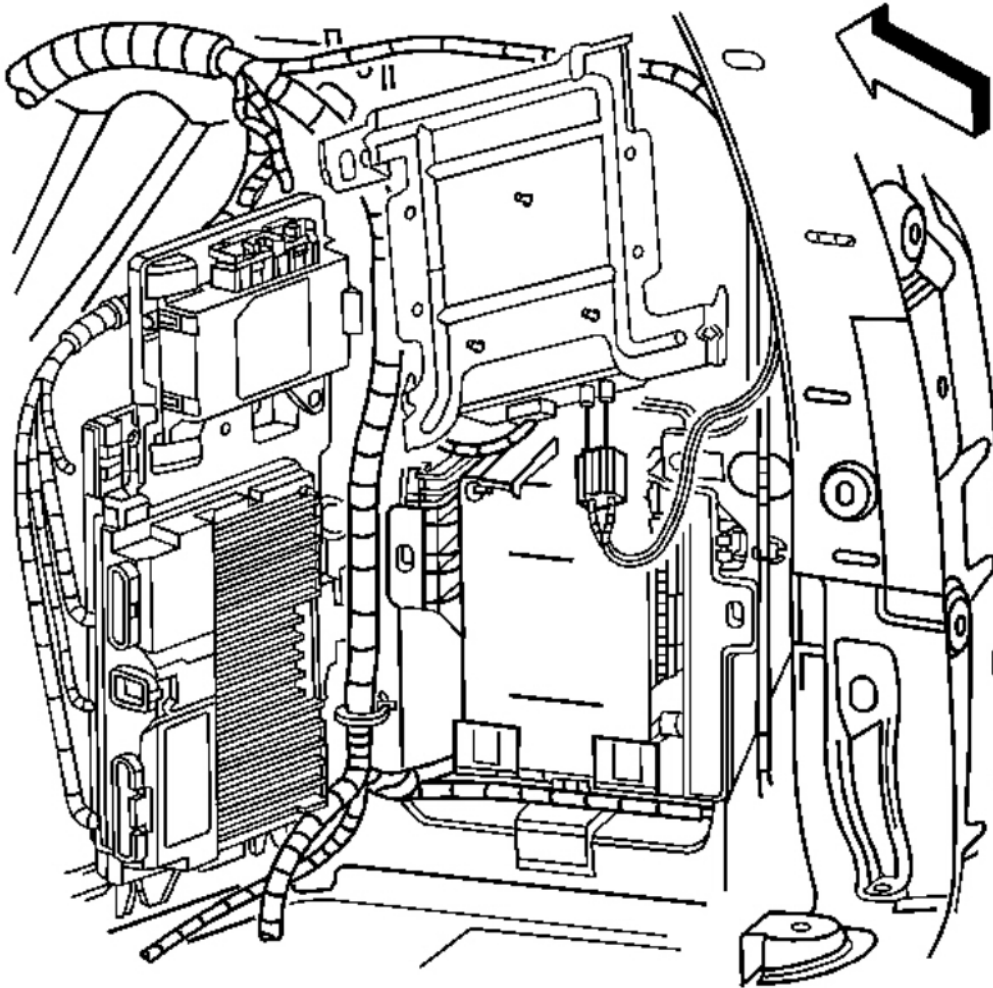
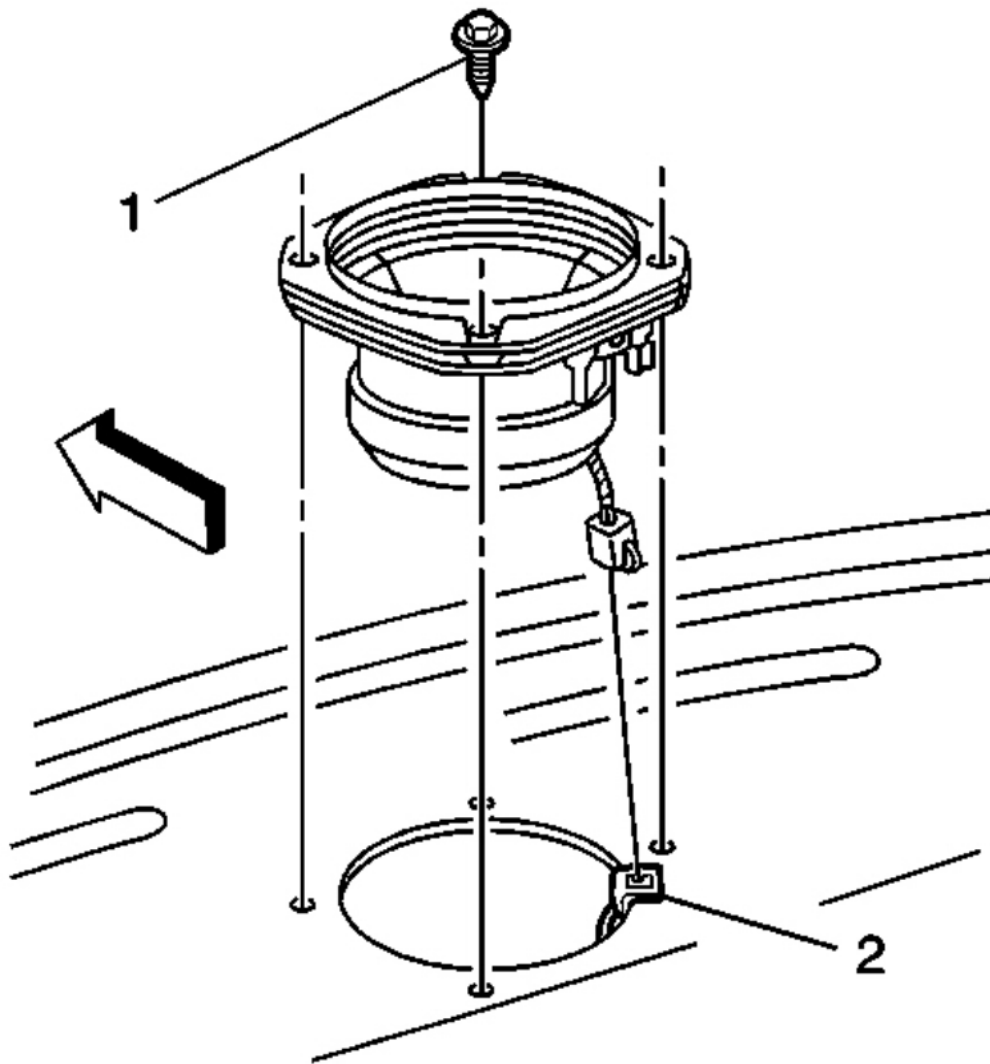


Fig. 48: View Of Digital Radio Receiver Electrical Connectors
Courtesy of GENERAL MOTORS CORP.

4. Install the headliner. Refer to **Headliner Replacement** in Interior Trim.
5. Install the right rear body side garnish molding. Refer to **Garnish Molding Replacement - Body Side Rear Upper** in Interior Trim.
6. Install the right rear body side trim. Refer to **Trim Panel Replacement - Body Side Rear** in Interior Trim.

Removal Procedure

1. Remove the defroster grille. Refer to **Defroster Grille Replacement** in Instrument Panel, Gages and Console.
2. Remove the fasteners (1) securing the speaker to the I/P retainer.
3. Disconnect the electrical connector (2).

**Fig. 49: View Of Front Speaker**

Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Connect the electrical connector (2).
2. Install the speaker (1) to the I/P retainer.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the 4 fasteners securing the speaker.

Tighten: Tighten the fasteners to 2 N.m (18 lb in).

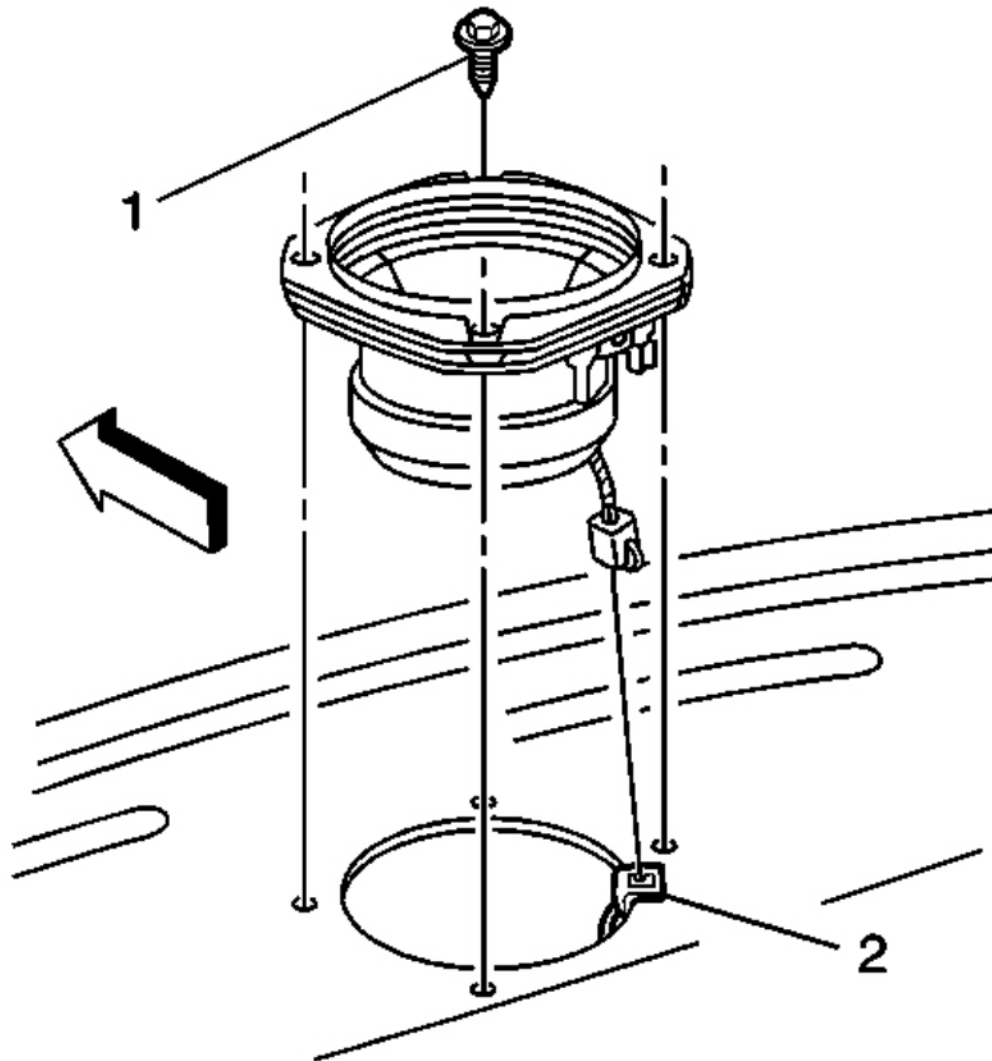


Fig. 50: View Of Front Speaker
Courtesy of GENERAL MOTORS CORP.

4. Reinstall the defroster grille. Refer to **Defroster Grille Replacement** in Instrument Panel, Gages and Console.

SPEAKER REPLACEMENT - FRONT DOOR

Removal Procedure

1. Remove the door trim panel. Refer to **Trim Panel Replacement - Side Front Door** in Doors.
2. Disconnect the electrical connector (1).
3. Remove the screws (3) securing the speaker (2) to the door frame.
4. Remove the speaker from the door.

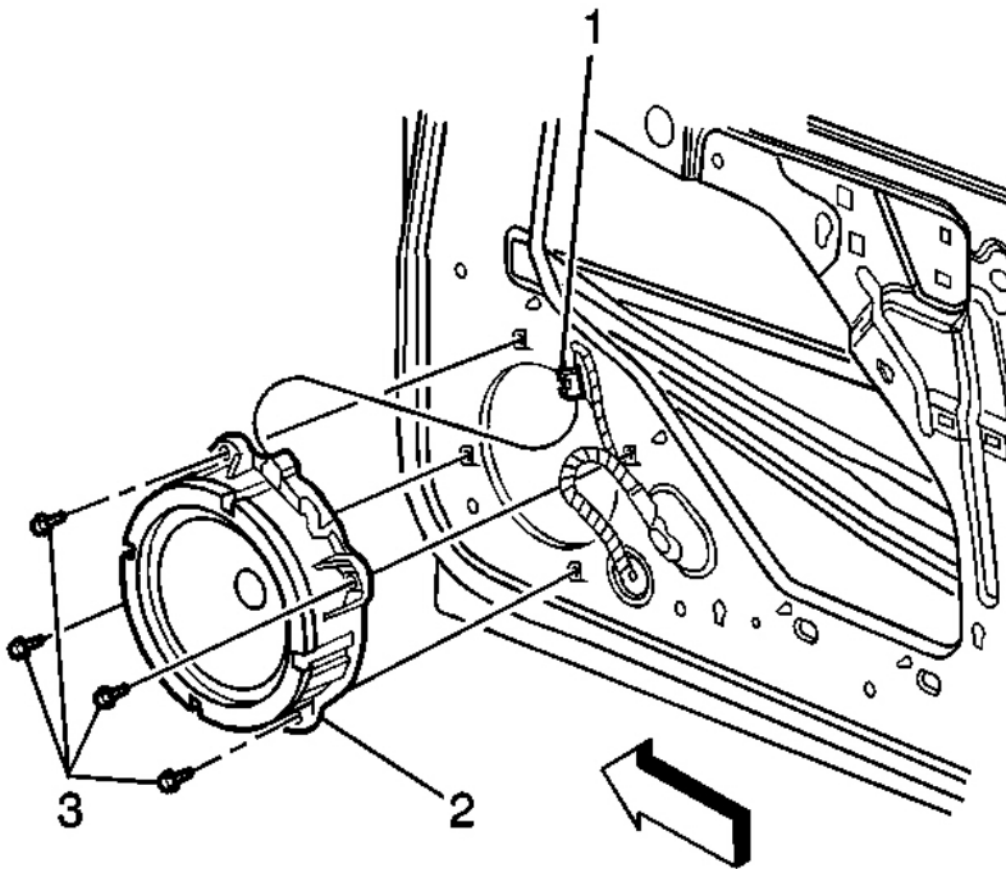


Fig. 51: View Of Door Speaker
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Connect the electrical connector.
2. Install the speaker onto the door frame.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the screws (3) securing the speaker (2) to the door frame.

Tighten: Tighten the screws to 2 N.m (18 lb in).

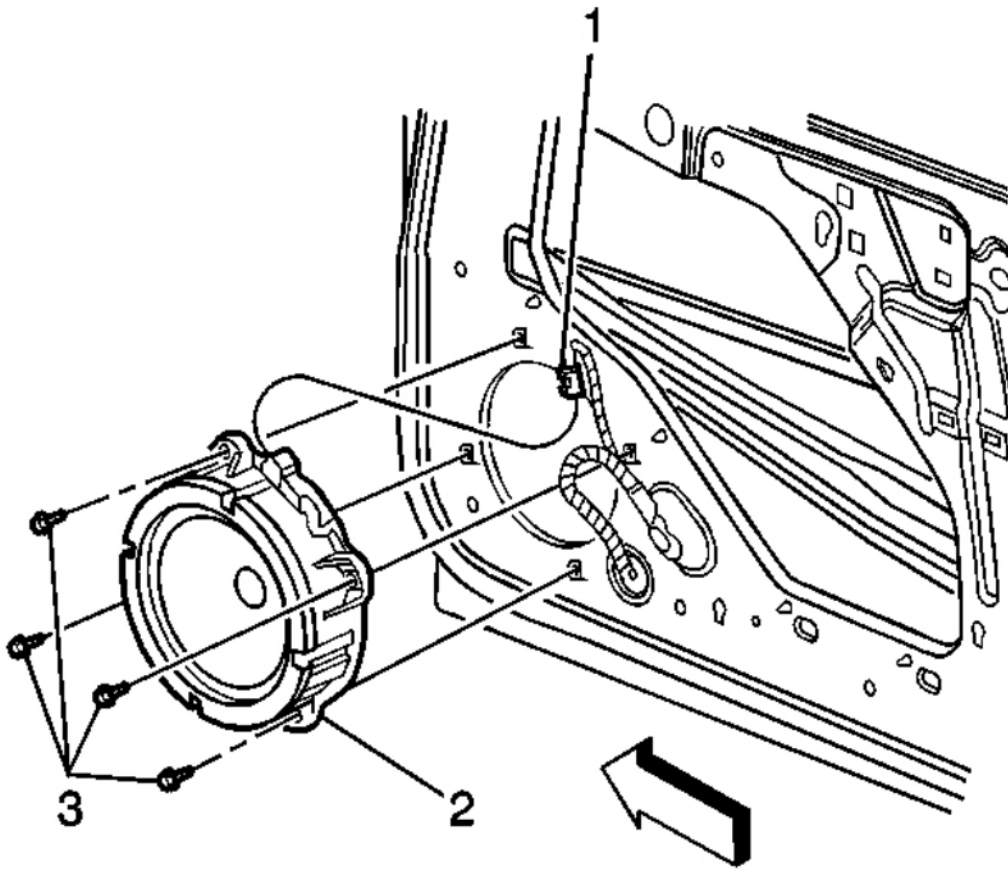


Fig. 52: View Of Door Speaker
Courtesy of GENERAL MOTORS CORP.

4. Install the door trim panel. Refer to Trim Panel Replacement - Side Front Door in Doors.

Removal Procedure

1. Remove the windshield garnish molding (2). Refer to **Garnish Molding Replacement - Windshield Pillar** in Interior Trim.
2. Disconnect the electrical connector (1).
3. Release the retaining tabs to remove the speaker from the garnish molding.

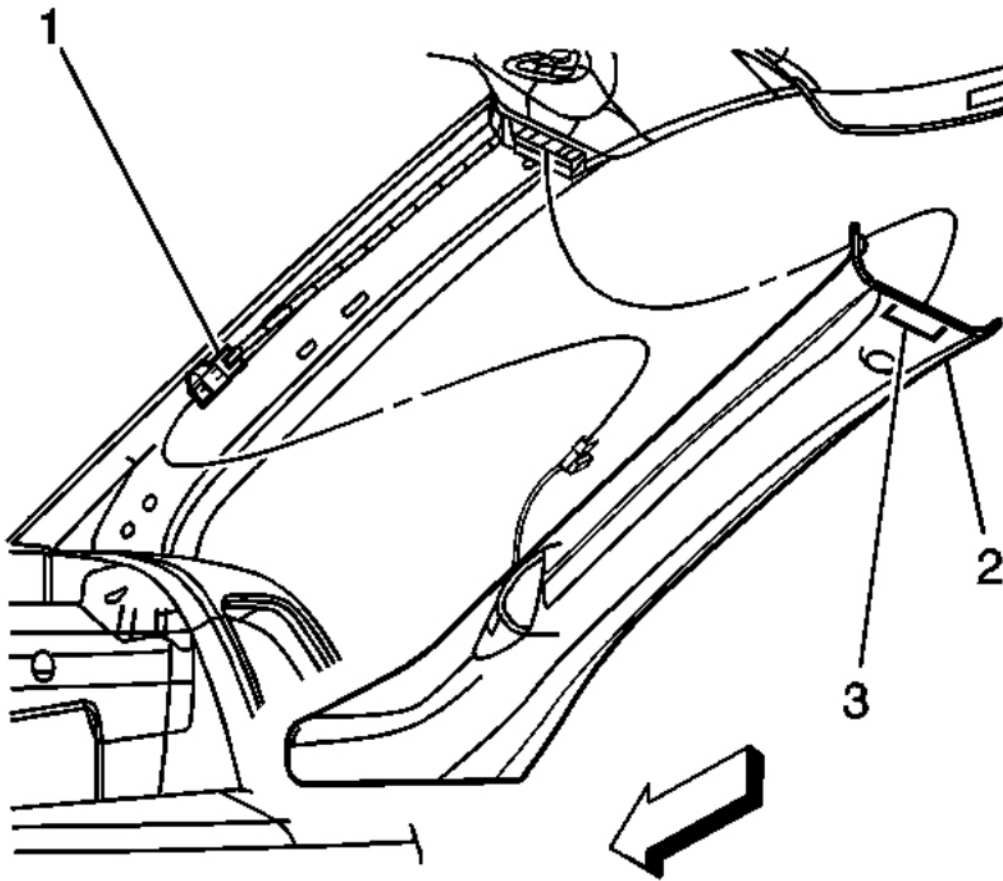


Fig. 53: Locating Front Upper Speaker Components
Courtesy of GENERAL MOTORS CORP.

4. Remove the speaker.

Installation Procedure

1. Reinstall the speaker to the trim panel.
2. Push the speaker into the retaining tabs to secure it to the garnish molding.
3. Connect the electrical connector (1).
4. Install the windshield garnish molding (2) to the vehicle. Refer to **Garnish Molding Replacement - Windshield Pillar** in Interior Trim.

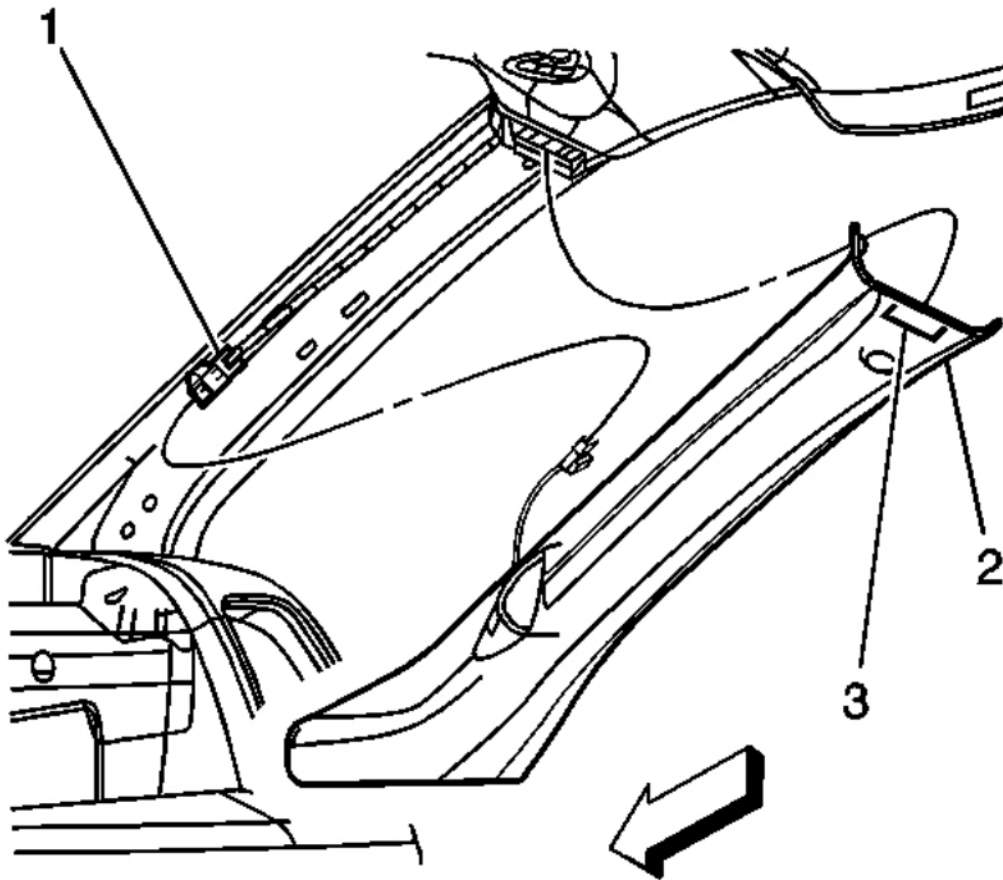


Fig. 54: Locating Front Upper Speaker Components
Courtesy of GENERAL MOTORS CORP.

SPEAKER REPLACEMENT - REAR DOOR

Removal Procedure

1. Remove the door trim panel. Refer to **Trim Panel Replacement - Side Rear Door** in Doors.
2. Disconnect the electrical connector (1).
3. Remove the screws (3) securing the speaker (2) to the door frame.
4. Remove the speaker from the door.

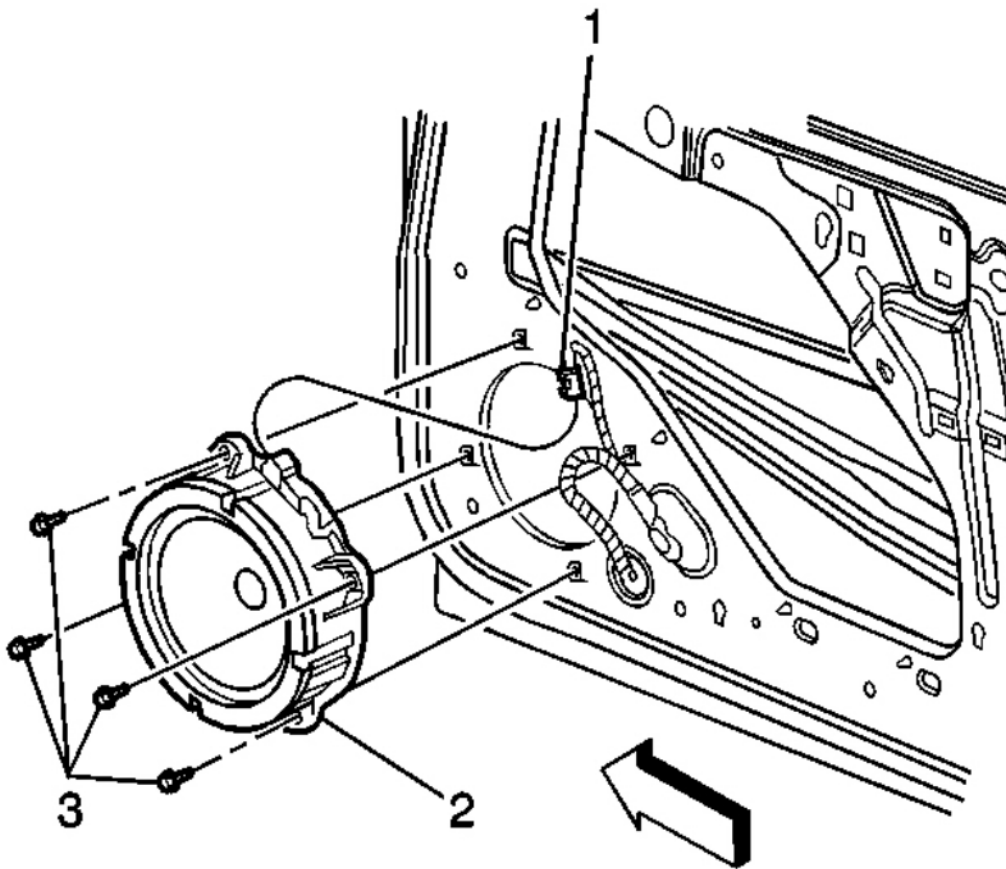


Fig. 55: View Of Door Speaker
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

1. Connect the electrical connector.
2. Install the speaker onto the door frame.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the screws (3) securing the speaker (2) to the door frame.

Tighten: Tighten the screws to 2 N.m (18 lb in).

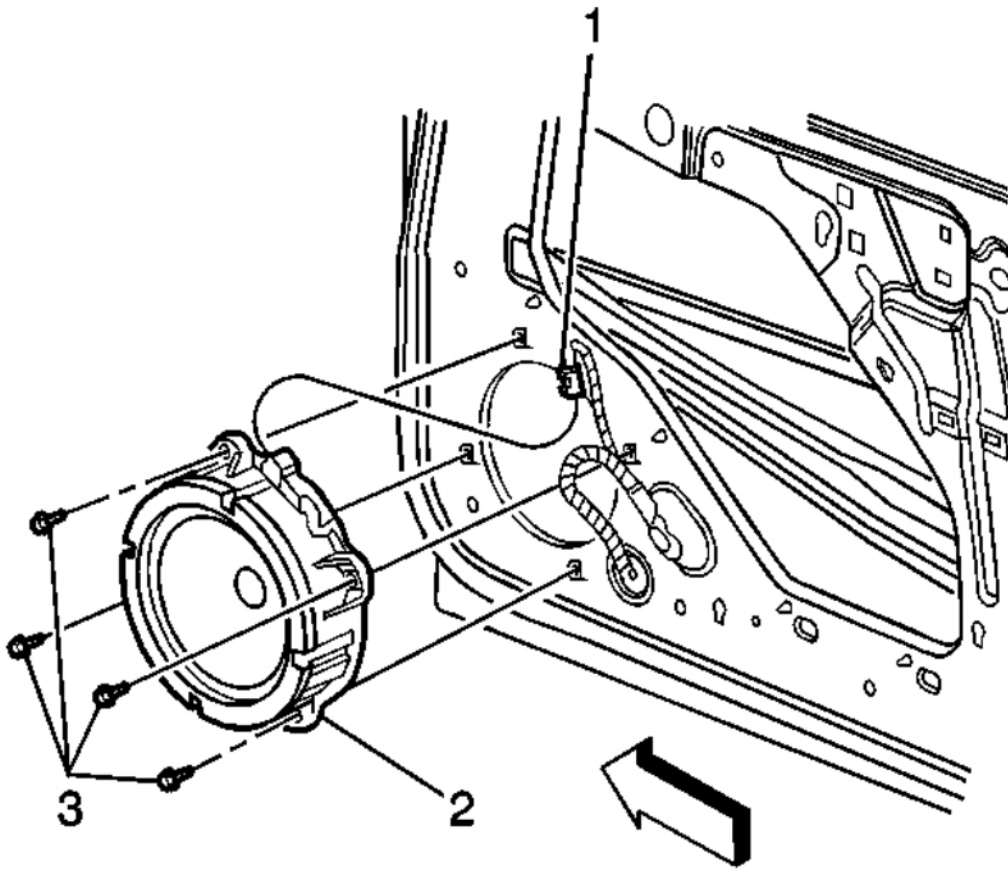


Fig. 56: View Of Door Speaker
Courtesy of GENERAL MOTORS CORP.

4. Install the door trim panel. Refer to Trim Panel Replacement - Side Rear Door in Doors.

SPEAKER REPLACEMENT - REAR

Removal Procedure

1. Remove the body side trim panel. Refer to **Trim Panel Replacement - Body Side Rear** in Interior Trim.
2. Remove the fasteners (2) securing the rear speaker.
3. Disconnect the electrical connector.
4. Remove the speaker.

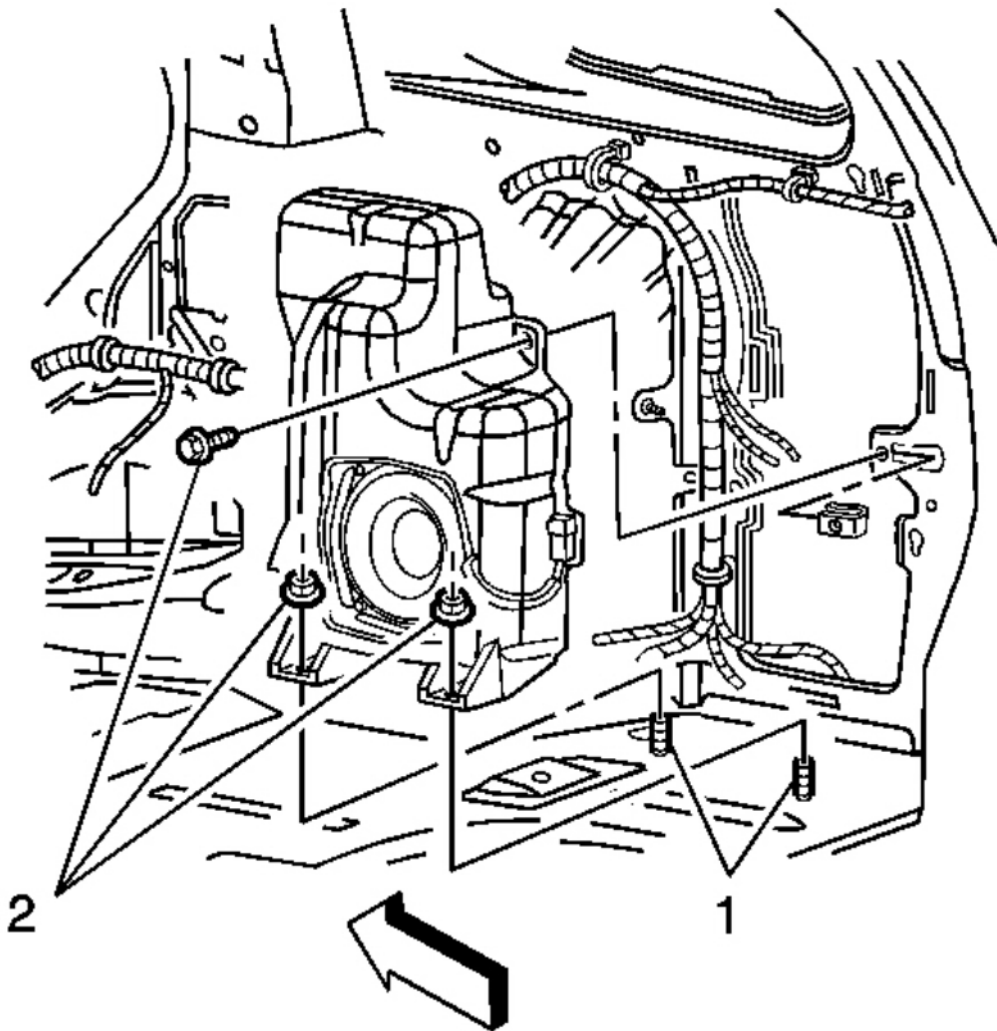


Fig. 57: View Of Rear Speaker
Courtesy of GENERAL MOTORS CORP.

2004 Cadillac SRX

2004 ACCESSORIES & EQUIPMENT Entertainment - SRX

Installation Procedure

1. Locate the speaker onto the studs (1) on the vehicle floor.
2. Connect the electrical connector.

NOTE: Refer to Fastener Notice in Cautions and Notices.

3. Install the fasteners (2) securing the speaker.

Tighten: Tighten the fasteners to 9 N.m (80 lb in).

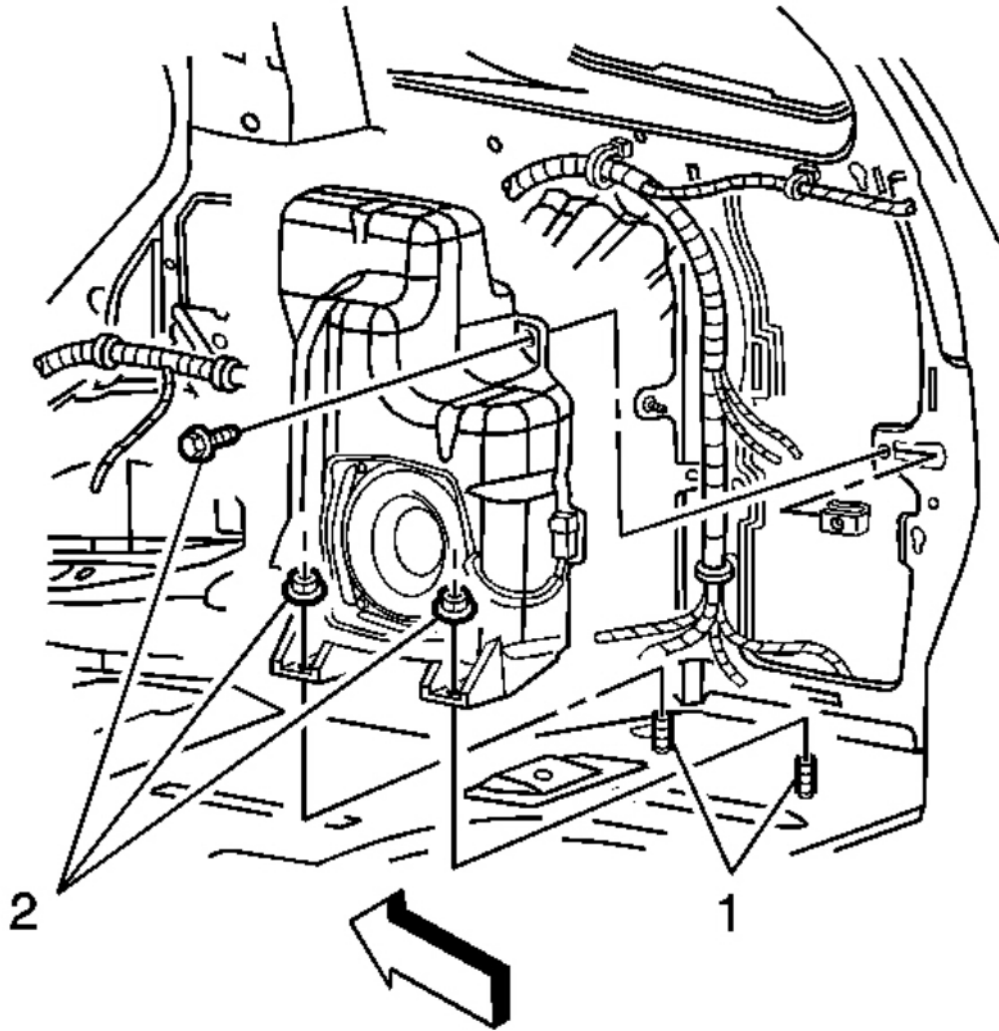


Fig. 58: View Of Rear Speaker
Courtesy of GENERAL MOTORS CORP.

4. Install the body side trim panel. Refer to Trim Panel Replacement - Body Side Rear in Interior Trim.

DISC PLAYER AND VIDEO DISPLAY REPLACEMENT

Removal Procedure

1. Remove the rear console trim panel. Refer to **Center Console End Panel Replacement (w/ DVD)** or **Center Console End Panel Replacement (w/o DVD)** in Instrument Panel, Gages, and Console.
2. Remove the arm rest filler. Refer to **Console Armrest Replacement - Front Floor (with DVD)** or **Console Armrest Replacement - Front Floor (w/o DVD)** in Instrument Panel, Gages, and Console.

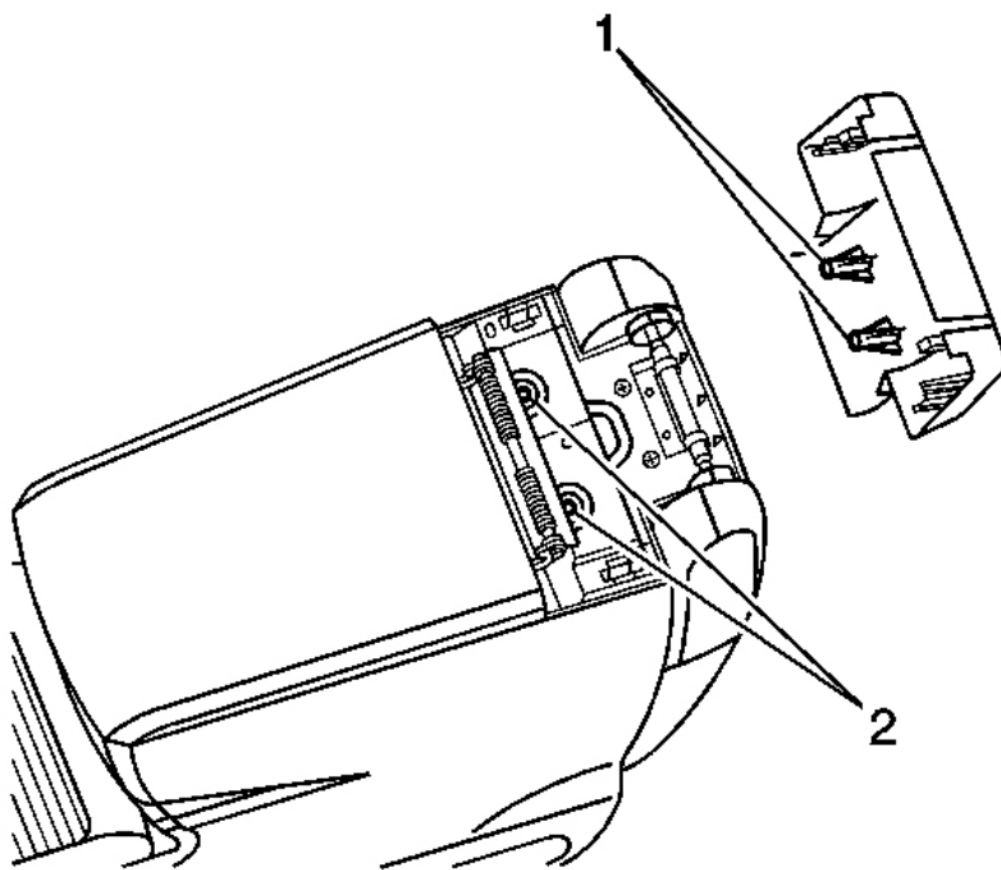


Fig. 59: View Of Arm Rest Filler
Courtesy of GENERAL MOTORS CORP.

3. Remove the 4 screws securing the DVD player to the console base bracket. Refer to **Bracket Replacement - Console Floor** in Instrument Panel, Gages, and Console.
4. Slide the DVD player out of the bracket.

5. Disconnect the electrical connectors.
6. Remove the screws securing the screen to the DVD player bracket.
7. Remove the screen.

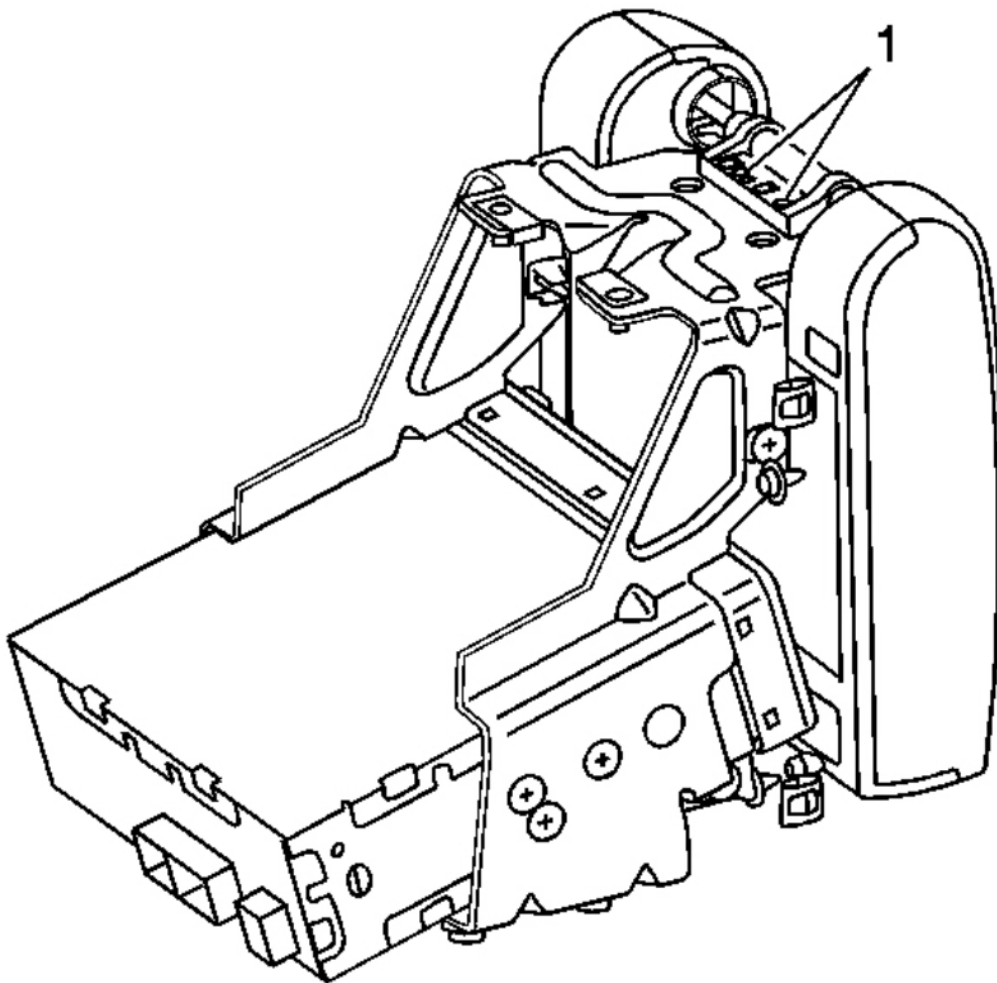


Fig. 60: Locating DVD Player Bracket Screws
Courtesy of GENERAL MOTORS CORP.

Installation Procedure

NOTE: Refer to Fastener Notice in Cautions and Notices.

1. Install the screws securing the screen to the DVD player bracket.

Tighten: Tighten the screws to 9 N.m (80 lb in).

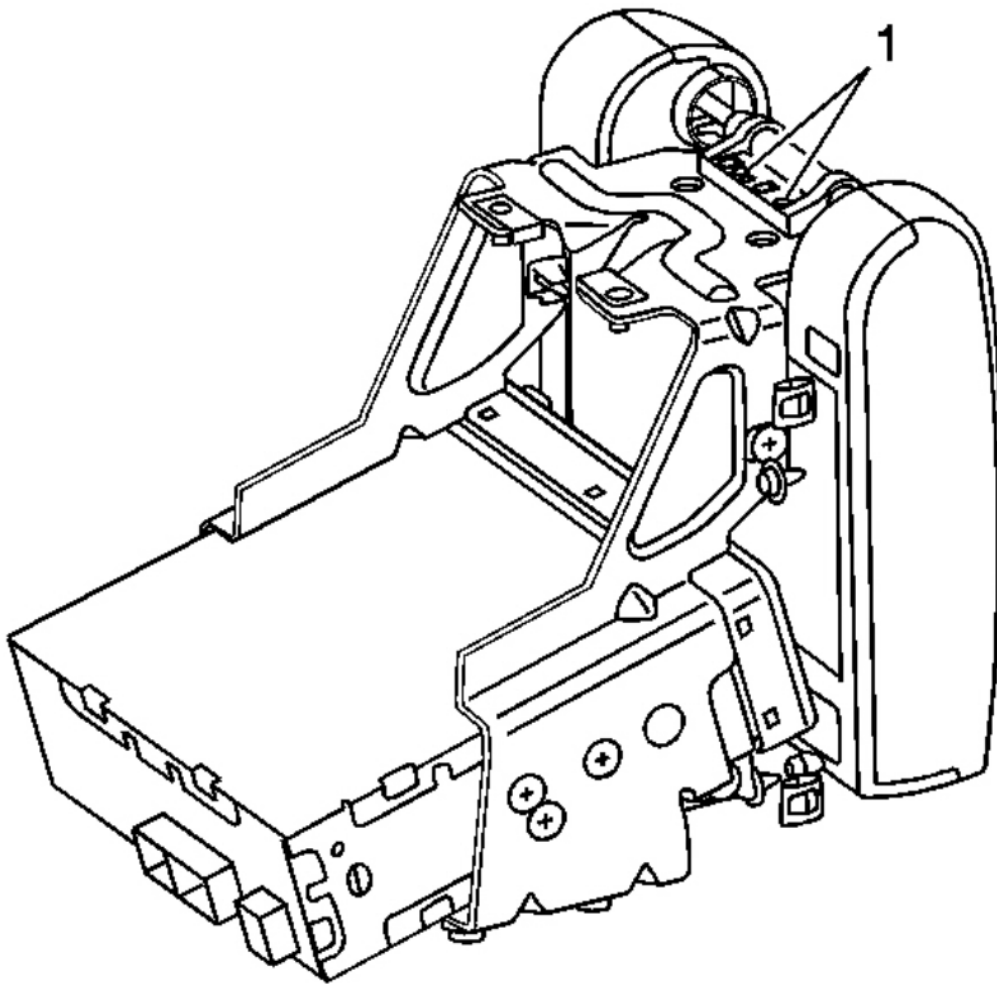


Fig. 61: Locating DVD Player Bracket Screws
Courtesy of GENERAL MOTORS CORP.

2. Connect the electrical connectors.
3. Slide the DVD player into the bracket.
4. Install the 4 screws securing the DVD player to the console base bracket. Refer to **Bracket**

Replacement - Console Floor in Instrument Panel, Gages, and Console.

Tighten: Tighten the screws to 9 N.m (80 lb in).

5. Install the arm rest filler. Refer to **Console Armrest Replacement - Front Floor (with DVD)** or **Console Armrest Replacement - Front Floor (w/o DVD)** in Instrument Panel, Gages, and Console.

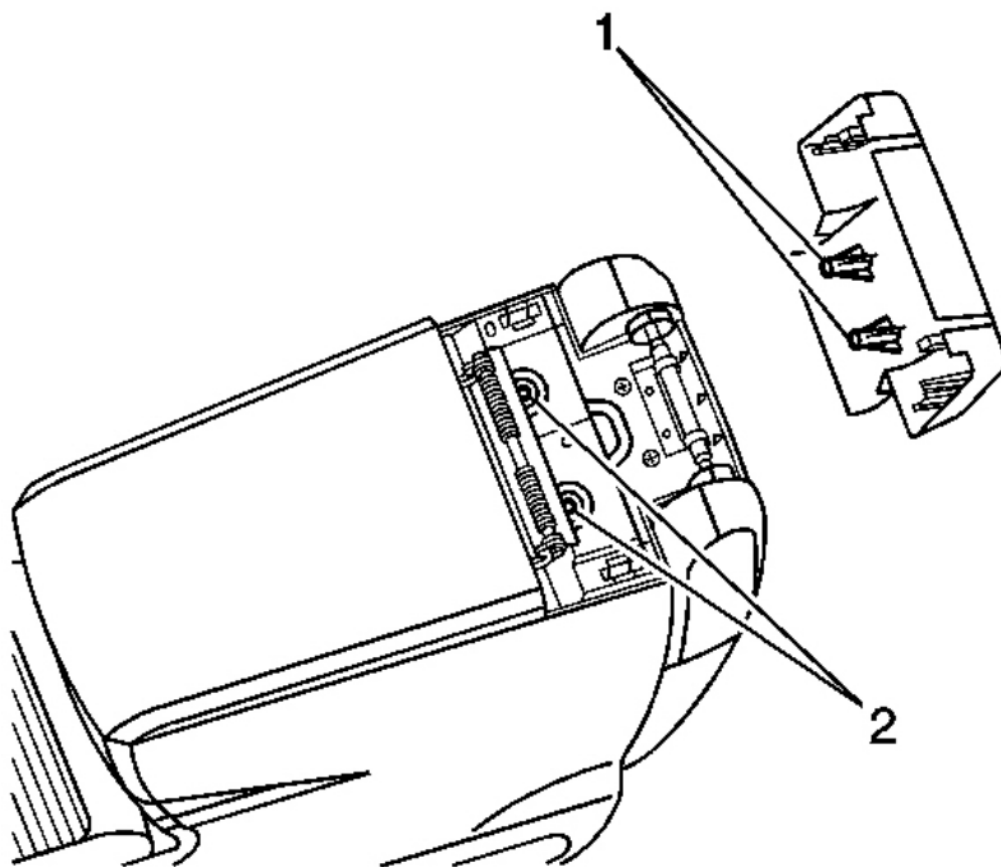


Fig. 62: View Of Arm Rest Filler
Courtesy of GENERAL MOTORS CORP.

6. Install the rear console trim panel. Refer to **Center Console End Panel Replacement (w/ DVD)** or **Center Console End Panel Replacement (w/o DVD)** in Instrument Panel, Gages, and Console.

DESCRIPTION AND OPERATION

RADIO/AUDIO SYSTEM DESCRIPTION AND OPERATION

The Entertainment System on this vehicle is configured with either a base or an uplevel system. Both the base and uplevel systems contain a radio, antenna, speakers, and an audio amplifier. Satellite digital radio (U2K) is optional for all radio levels (U.S. only).

The following list shows the radios available for this vehicle:

- Base Radio (U2R) - AM/FM, CD, RDS, and Delco Amplifier
- Uplevel Radio (U2S) - AM/FM, CD, RDS, and BOSE(R) Amplifier
- Uplevel Radio (U2V) - AM/FM, ICDX, RDS, Navigation, and BOSE(R) Amplifier (U.S. and Canada)
- Uplevel Radio (U2X) - AM/FM, ICDX, RDS, Navigation, and BOSE(R) Amplifier (Japan)

Radio Features

Controls	U2R or U2S	U2V or U2X
Power	Push the PWR/VOL knob to turn the radio on.	
Volume	The volume is adjusted by rotating the PWR/VOL knob.	
Auto Volume Compensation	Use the TUNE/SEL knob.	Press the AUDIO button.
Seek	Press the up or down arrow.	Press the left or right arrow.
Scan	Press the SCAN button for less than 2 seconds.	Press and hold the left or right arrow for 2 seconds.
Setting Seek Sensitivity	Use the TUNE/SEL knob.	N/A
Presets	Six AM, Six FM1 and Six FM2. Six XM1, and Six XM2 if equipped with U2K.	Six AM, Six FM1, Six FM2, and six weather.
Preset Saving	Press and hold desired button until an audible beep is heard.	
Auto Store Presets	Use the TUNE/SEL knob.	From the Radio menu, press the TUNE/SEL knob.
Preset Scan	Press the SCAN button for more than 3 seconds.	Press and hold the left or right arrow for 4 seconds.
Home/Away Presets	Use the TUNE/SEL knob.	Press the Audio Setup button.
		From the Main Menu, press the Setup

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Set Clock	Use the TUNE/SEL knob.	soft key.
Fade or Balance	Use the TUNE/SEL knob.	Press the AUDIO button.
Bass, Treble, or Midrange	Use the TUNE/SEL knob.	Press the AUDIO button.
Equalizer Settings	Use the TUNE/SEL knob.	Press the AUDIO button.
Digital Signal Processing	Use the TUNE/SEL knob.	Press the AUDIO button.

Each item in the list below represents topics covered in detail below.

- AM/FM Reception
- XM Reception
- Diversity Antenna System
- Audio Amplifier
- Theft Deterrent
- CD Changer
- Radio Personalization w/Home and Away Feature
- Radio Data System (RDS)
- XM Satellite Radio
- XM Advisory Messages
- Steering Wheel Controls

AM/FM Reception

Radio Signal

The radio signal is sent from a broadcast station and is then received by an antenna. The strength of the signal received depends on the following:

- The power output (wattage) of the broadcasting station
- The location of the vehicle (or receiver) relative to the broadcast tower.
- Obstacles between the tower and the receiver
- Atmospheric conditions
- What band (AM or FM) the station is broadcasting
- Type of antenna and the ground plane

AM Reception

The AM band has a lower frequency range than the FM band. These longer wavelengths:

- Bend around Obstacles
- Follow the curvature of the earth
- May reflect off the ionosphere (skip)

The AM frequencies have longer range due to the ground wave. The ground wave follows the curvature of the earth and is affected by its conductivity. Greater conductivity equates to less signal loss thus transmission over water is better than over land. The AM band has a range of 80-320 km (50-200 miles).

FM Reception

The shorter wavelengths of the higher frequency FM band:

- Reflect off obstacles
- Are absorbed by the ground
- Penetrate the ionosphere

Broadcasts in the FM band are limited to line of sight reception which is typically 40 km (25 miles). Even when out of a direct line of sight, the signal may be reflected into areas that would be in a shadow otherwise. Factors which affect the line of sight include:

- Height of the broadcast antenna
- Height of the receiving antenna
- Terrain and buildings in the broadcast path

XM Reception

XM satellite radio provides digital radio reception. The XM signal is broadcast from two satellites and, where necessary, terrestrial repeaters. The high power satellites allow the antenna to receive the XM signal even when foliage and other partial obstructions block the antennas view of the satellite. Terrestrial repeaters are used in dense urban areas. These repeaters will receive the satellite signal and re-broadcast them at much higher power levels in order to ensure reception in areas with densely packed tall buildings.

Viewing XM Messages

To view the XM information messages, perform the following steps:

1. Press the TUNE/SEL knob to enter the main menu.
2. Turn the TUNE/SEL knob until Clock/Information Display appears on the display.
3. Press the TUNE/SEL knob to select. The last message will be displayed.

Diversity Antenna System

The diversity antenna system uses both left and right rear quarter windows with an applique to the glass. Any damage to the antenna requires replacing the glass.

A diversity antenna system is designed to deliver the best radio signal reception possible. Two antennas are used to form a diversity system. The primary antenna is part of the passenger rear quarter window. This antenna receives both AM and FM signals. The secondary antenna is part of the driver rear quarter window and receives only FM signals for the audio system. RFA signals are also received by this antenna module.

The antenna reception signals are sorted out by the radio antenna modules. The radio antenna modules are enabled when the radio is turned on. When the AM band is selected on the radio, the passenger antenna module connects the right rear quarter window antenna directly to the radio. In addition, when the FM band is selected an enable signal is sent to the passenger antenna module. Superimposed on this enable signal is the strength of the signal being received by the radio tuner. The antenna module combines both signals and phase aligns them to create one strong signal.

The driver antenna module receives the FM2 signal from the left rear quarter glass and passes this signal to the passenger antenna module. The driver antenna module also receives the RFA and TPM signals and passes them via class 2 to the appropriate module. The passenger antenna module receives the FM1 signal from the right rear quarter glass where it then combines the two signals to be sent to the radio via coax. The passenger antenna module is powered by the driver antenna module via the FM2 signal coax. The FM composite signal from the radio switches the passenger antenna module from AM to FM and provides feedback of signal quality to the passenger antenna module. This signal is 5-8 volts when in FM mode and 0 V when in AM.

Audio Amplifier

The radio supplies low level audio signals to the audio amplifier in order to boost the signal sent to the speakers.

The radio uses the antenna input signal to create a stereo audio output signal, which is sent at the user-defined volume level to the audio amplifier. The audio amplifier amplifies the signal and sends it to the appropriate speakers. Tone, balance and fade information is sent by the radio to the audio amplifier via the class 2 communication circuit. Additional output processing is provided

by the noise-canceling microphone. The microphone monitors interior ambient noise allowing the audio amplifier to modify the audio output. This maintains the sound at an enjoyable level.

Theft Deterrent

Radio

The Theftlock theft deterrent system is a feature on all base and uplevel radios. There is no need to program a security code into the radio as in past model years. The theft deterrent system now utilizes class 2 serial data to determine if the radio is in the appropriate vehicle. Each time the radio receives the run power mode message, it compares the VIN information it has stored to the VIN information received from the dash integration module (DIM) on the class 2 serial data circuit. If a mis-match occurs, the radio display will indicate to the user the radio is locked. Once this takes place, a DTC will set, the radio will not respond to any button presses and become inoperative. The two scenarios able to cause this condition are:

- A radio is installed from another vehicle
- The DIM is replaced and not properly setup with the correct VIN information for that vehicle

The only way to unlock the radio is by using a scan tool. Always refer to the table in this section to diagnose the Theftlock DTC for further information.

Digital Radio Receiver

The digital radio receiver utilizes class 2 serial data to determine if it is in the appropriate vehicle. Each time the digital radio receiver receives the run power mode message, it compares the VIN information received from the dash integration module (DIM) on the class 2 serial data circuit. If a mis-match occurs, the radio display will indicate to the user the digital radio receiver is locked. The digital radio receiver cannot be unlocked, it must be replaced. The two scenarios able to cause this condition are:

1. A digital radio receiver is installed from another vehicle
2. The DIM is replaced and not properly setup with the correct VIN information for that vehicle

CD Changer

For the uplevel system the CD changer is the main audio gateway. It routes the audio from the source to the audio amplifier.

The radio controls and communicates with the CD changer via the class 2 communication circuit.

The CD changer allows for multiple compact discs to be played continuously without having to manually change compact discs. To load multiple CDs, press the LOAD button for more than 3 seconds, then insert the CDs one at a time into the slot below the radio. CDs must be loaded with the label side up. If a disc is loaded label side down, the disc will not play and an error will occur. To eject a single CD press and release the EJECT button. To eject multiple CDs, press and hold the EJECT button for at least 3 seconds. When a CD is loaded in the CD changer the CD symbol will appear on the radio display.

Radio Personalization w/ Home and Away Feature

This feature allows two different drivers to store and recall specific radio settings. The settings recalled by the radio are determined by which remote keyless entry (RKE) transmitter (1 or 2) is used to enter the vehicle. The number on the back of the RKE transmitter corresponds to driver 1 or driver 2. The radio settings automatically adjust to where they were last set by the identified driver.

The radio can store home and away presets. Home and away presets allow you to use one set of preset radio settings in the area where you live, and another set when you go out of town. You do not need to reprogram your presets every time you travel. To change between home and away presets, perform the following steps:

w/U2R or U2S

1. Press the TUNE/SEL knob.
2. Turn the TUNE/SEL knob until H/A HOME PRESETS is displayed.
3. Press the TUNE/SEL knob to change.

w/U2V, U2Y, or U2X

1. Press the Audio Setup button.
2. Press the HOME/AWAY button.

Configurable Radio Display Keys w/U2R or U2S

The soft keys on either side of the display can be programmed for different functions. To program the soft keys, perform the following steps:

1. Press the TUNE/SEL knob.
2. Turn the TUNE/SEL knob until SETUP is displayed; press the knob to select.
3. Turn the TUNE/SEL knob until CONFIGURE DISPLAY KEYS is displayed; press the

knob to select.

4. Turn the TUNE/SEL knob to select the key to be programmed; press the knob to select. The current assigned feature is displayed.
5. Turn the TUNE/SEL knob to select the feature that you would like to assign to the key; press the knob to select.

Radio Data System (RDS)

All audio systems are equipped with technology known as the Radio Data System (RDS). RDS is a system that sends data along with the audio of the FM station you are currently tuned to. RDS is a standard that defines how a FM broadcast station may send digital data along with the audio program. Think of it as a one-way wireless modem, allowing the broadcaster to send information about his program to your receiver.

RDS data is carried in what is known as a "subcarrier". A subcarrier is a frequency that the FM broadcaster is authorized to use to send data or other audio programs that are not audible in the main audio program. RDS information can be used to display program information and to control the radio.

To receive the RDS signal, all that is needed is an FM receiver with an RDS circuit. A special integrated circuit capable of dealing with the RDS signal is in the RDS circuit and passes it along to the receiver's microprocessor where it is decoded and acted upon.

RDS Basic Information

- RDS functions are provided in the FM broadcast band only.
- RDS functions will only work with FM broadcast stations that are broadcasting RDS data.
- Not all FM Broadcast stations broadcast RDS data or offer all of the RDS services.
- RDS functions may not work properly when reception is weak, reception is of poor quality, or RDS is not implemented properly by the FM Broadcaster.

In some cases, a radio station broadcasting incorrect information may cause the RDS features of the radio to appear to work improperly.

Broadcast RDS information can be used in a variety of ways by the receiver and listener, but basically falls into two categories: Display and Control.

Displaying Program Information

RDS displays textual information such as:

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- The name of the station.
- The type of program.
- General information such as artist and song title, call in phone numbers, etc.

RDS Traffic Feature (TA) w/U2R or U2S

This feature allows the radio to receive traffic announcements even with the volume muted, or when a CD or cassette is playing. When TA is ON, the radio will search for another station with TA if the current station is not TA capable. To turn TA ON or OFF, perform the following steps:

1. Press the TUNE/SEL knob to enter the main menu.
2. Turn the TUNE/SEL knob until TRAFFIC ANNOUNCE appears on the display.
3. Press the TUNE/SEL knob to select. An X will appear in the box when TA is ON.

RDS Traffic Feature w/U2V or U2X

This feature allows the radio to receive traffic announcements even with the volume muted, or when a CD or cassette is playing. When TRAFFIC is ON, the radio will search for another station with traffic if the current station is not capable. To turn TRAFFIC ON or OFF, press the TRAFFIC button.

Viewing Messages w/U2R or U2S

When MSG appears on the radio display, a new message is available for viewing. These messages are from the RDS broadcaster and may be general information such as artist and song title. To view the text message, perform the following steps:

1. Press the TUNE/SEL knob to enter the main menu.
2. Turn the TUNE/SEL knob until RECALL RDS MESSAGE appears on the display.
3. Press the TUNE/SEL knob to select. The last message displayed will be displayed again.

Using Program Type Presets w/U2R or U2S

The radio has the ability to use RDS data to find stations according to program type (PTY). When in PTY mode the preset buttons are now PTY presets instead of frequency presets. To turn PTY mode ON or OFF, perform the following steps:

1. Press the TUNE/SEL knob to enter the main menu.
2. Turn the TUNE/SEL knob until PROGRAM TYPE MODE appears on the display.
3. Press the TUNE/SEL knob to select. An X will appear in the box when PTY is ON.

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Using RDS Seek w/U2V or U2X

The radio has the ability to use RDS data to find stations according to program type. To select program type perform the following steps:

1. From the Radio menu, press the TUNE/SEL.
2. Select RDS List.
3. Select the program types to search for.
4. Select Seek RDS List to search for these program types.

XM Satellite Radio

XM is a national satellite radio service that offers up to 100 coast to coast channels including music, news, sports, talk and children's programming. XM provides digital quality audio and text information, including song title and artist name. A service fee is required in order to receive the XM service. For more information, contact XM at www.xmradio.com or call 1-800-852-9696.

Digital Radio Receiver

The radio controls communicate with the digital radio receiver via the class 2 communication circuit. The digital radio receiver sends remote radio audio signals to the radio.

Viewing Messages

Press the INFO button while in XM mode to view various pieces of information related to the current song or channel. By pressing and releasing the INFO button, you may view four different categories of information: Artist Name/Feature, Song/Program Title, Channel Category, and other Additional Information that may be broadcast on that channel. Additional Information messages may not always be available. If an Additional Information message is being broadcast on the tuned channel, the INFO icon will appear on the display. Each of the four information types may have multiple pages of text. To reach a category, press and release the DISP or RCL button consecutively until the desired type is displayed. If there are multiple pages of text for the selected information type, the radio will automatically display all the pages for that type at a rate of approximately one page every three seconds before timing out and returning to the default display. You may override this feature by pressing the DISP or RCL button to review all of the pages at your own pace.

XM Advisory Messages

Radio Display Message	Condition
XM Updating	Updating encryption code
No XM Signal	Loss of signal

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Loading XM	Acquiring channel audio (after 4 second delay)
Channel Off Air	Channel not in service
Channel Unavail	Channel no longer available
No Artist Info	Artist Name/Feature not available
No Title Info	Song/Program Title not available
No CAT Info	Category name not available
Not Found	No channel available for the chosen category
No Information	No text/informational message available
XM Theftlocked	Theft Lock active
XM Radio ID	Electronic serial number (ESN) channel 0
Unknown	Radio ID not known (should only be if hardware failure)
Check XM Receiver	Hardware failure

Steering Wheel Controls

Some audio functions are available using the steering wheel controls. The steering wheel controls consist of multiple momentary contact switches that connect a series of resistors. When a steering wheel control switch is pressed, a voltage drop occurs in the resistor network, which produces a specific voltage unique to the switch selected. This specific voltage allows the radio (U2R or U2S) or CD changer (U2V or U2X) to identify which switch has been pressed.

The radio or CD changer supplies voltage to the steering wheel controls via the remote radio control supply voltage. The specific voltage signal is returned on the steering wheel controls signals circuit.

VIDEO ENTERTAINMENT SYSTEM DESCRIPTION AND OPERATION

Disc Player and Video Display (DPVD)

Your vehicle may have the optional disc player and video display (DPVD) system. The DPVD system includes a disc player, a video display screen, two sets of wireless headphones, and a remote control.

DPVD is available in a base and an uplevel version. The uplevel version is provided with the Navigation radio, if equipped. The uplevel entertainment system offers the rear seat passengers to have shared control of all of the vehicles audio sources AM,FM, XM if equipped, weather, CD, TV if equipped, and front DVD. XM (48 contiguous US states, if equipped).

Disc Player

The disc player is located in the floor console under the video display. Flip up the display to access the disc player. The disc player can be controlled by the buttons on the faceplate and by the buttons on the remote control. See "Remote Control" later in this section for more information.

The disc player power may be turned on when the ignition is in ON, ACCESSORY, or when retained accessory power (RAP) is active.

The system disc player is only compatible with DVDs with the appropriate region code for the country that the vehicle was sold in. The DVD region code is printed on the jacket of most DVDs. The disc player will also play audio CDs. Not all home recorded CDs (CD-R or CD-RW formats) will play in this disc player.

If an error message appears on the video screen, see "DVD Messages" later in this section.

Disc Player Buttons

Power: Press this button to turn the system on or off.

Eject: Press this button to eject a disc.

SRCE (Source): Press this button to cycle through the available entertainment modes. If your vehicle is equipped with the Navigation system, each press of the SRCE button will cycle the rear video between DVD, AUX, TV, and front DVD. Auxiliary is available when a device is plugged into the available auxiliary jacks on the disc player faceplate.

Stop: Press this button to stop the play of the DVD player. Press this button twice to return to the beginning of the DVD.

Play/Pause: Press this button to turn the disc player on, to start play of a disc and to toggle between play and pause.

Menu: Press this button to access the DVD menu. This button only operates with a DVD. If your vehicle is equipped with the TV option, the menu button will bring up a TV specific menu.

Display Menu: Press this button to modify the video screen display characteristics.

Menu Navigation: Use the arrow keys to navigate through a menu.

Enter: Press this button to select items within a menu. If your vehicle is equipped with the navigation system, after pressing the SRCE button, the enter button can select all speaker or rear video. See the SRCE button previously for more information.

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Audio/Video Jack: These jacks allow you to connect audio and video signals from an auxiliary device such as a camcorder or a video game unit to your DPVD just as you would to a standard television. The left jack is for left audio, the middle jack is for right audio and the right jack is used for video. The system requires standard RCA cables (not included) to connect your auxiliary device to the RCA jacks. Refer to the manufacturers instructions for proper usage.

To use the auxiliary audio and video inputs on the DPVD, connect an external auxiliary device such as a camcorder to the jacks and turn on both the auxiliary device power and the power on the front of the DPVD. To have use of these jacks, you must select AUX using the SRCE button on the disc player faceplate or the remote control.

Headphone Jack: These jacks allow you to listen to the RSE through wired headphones (not included).

Headphone Volume: Turn the left knob to increase the volume of the headphone hooked into the left headphone jack. Turn the right knob to increase the volume of the headphone hooked into the right headphone jack.

Playing a Disc

To play a disc, gently insert the disc with the label side up into the loading slot. The disc player will continue loading and the player will automatically start, if the vehicle ignition is in ON, ACCESSORY, or when RAP is active.

If a disc is already in the player, press the play/pause button on the face of the disc player or on the remote control.

Some DVDs will not allow you to fast forward or skip the copyright or previews. Some DVDs will begin playing after the previews have finished. If the DVD does not begin to play the main title, refer to the on-screen instructions, as the DVD may be displaying its main title menu.

Parental Control Feature (U2V/U2X):

These buttons are located on the navigation system screen main audio menu. The buttons are called "RSE LOCK", "RSE ON", and "RSE OFF".

RSE LOCK

RSE LOCK is the default mode for DPVD system operation. In this mode the rear seat passengers have control over the DPVD only. The only viewable sources for rear passenger entertainment are The rear DVD player, the auxiliary inputs or TV if equipped. In this mode the DPVD can only be heard through the IR headphones.

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RSE ON

In this mode the rear seat passengers have total shared control of the vehicle entertainment system. All available audio sources can be selected through the remote control or the DPVD buttons. Both listening modes can be selected rear video or speaker. In speaker mode, the headphones will play the selected source. In rear video listening mode, the rear passengers can only select the DPVD as the source or the TV if equipped.

RSE OFF

In this mode, the video screen will display Parental Control ON and the power indicator light on the DVD player will flash. It will also disable all other button operations from the remote control and the disc player, with the exception of the eject button. The headphone volume is also shut off. The driver will then be able to gain the attention of the rear seat passengers. Press the appropriate mode button again to restore normal operation of the disc player.

DPVD Listening Modes

There are two ways of listening to the vehicle audio system.

Speaker Mode

In this mode the vehicle speakers and the IR headphones are playing the same audio source. When cycling through the available audio sources, "speaker" appears in the upper left corner of the video display screen. Also when cycling through the available sources, the first touch of the source button will allow the user to change the speaker mode, the second press of the button will change the audio source.

Rear Video Mode

This mode allows the rear seat passengers to select only DPVD or TV as their source, while the front seat passengers listen to a different source through the vehicle speakers.

Stopping and Resume Playback

To stop a disc, press and release the stop button on the faceplate or the remote control. To resume playback, press the play/pause button again. As long as the disc has not been ejected and the stop button has not been pressed twice, the movie should resume play from where it was last stopped. If the disc has been ejected, or if the stop button has been pressed twice, the disc will resume play at the beginning.

Ejecting a Disc

Press the eject button on the disc player to eject the disc. If a disc is ejected from the player, but is not removed, the DVD player will reload the disc within 25 to 30 seconds. The disc will then be stored in the player. The disc player will not resume play.

DVD Messages

The following errors may be displayed on the video screen:

Disc Format Error: This message will be displayed if a disc is inserted upside down, if the disc is not able to be read or if the disc format is not compatible with the disc player. The disc will be automatically ejected from the player.

Load/Eject Error: This message will be displayed if the disc is not properly loaded or ejected.

Disc Play Error: This message will be displayed if the player can not play the disc. Severely damaged discs will cause this error. The disc will be automatically ejected from the player.

Region Code Error: This message will be displayed if the region code of the DVD is not compatible with the disc player. The disc will be automatically ejected from the player.

No Disc: This message will be displayed if the PLAY button is pressed and no disc is in the player.

This button may also be used to turn the DVD player power on and automatically resume play if the vehicle is in an enabled power mode.

Video Display

The video display is located in the floor console. Avoid directly touching the video display to prevent distortion of the screen. Lift up the display by the top or the sides into the full open position. Adjust the displays position as desired. Store the display in the closed position when not in use. The disc player and display will continue to operate when the display is in either the up or the down position. The video screen contains the infrared transmitters for the wireless headphones and the infrared receiver for the remote control. If the display is in the closed position, the infrared signals will not be available for the operation of the wireless headphones and the remote control.

Remote Control

To use the remote control, aim it at the transmitter window above the video display and press the desired button. Direct sunlight or very bright light may affect the ability of the DPVD system to receive signals from the remote control. If the remote control does not seem to be working, the

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batteries may need to be replaced. See "Battery Replacement" later in this section. Objects blocking the line of sight may also affect the function of the remote control.

Remote Control Buttons

Power: Press this button to turn the disc player on or off.

Illumination Press this button to turn the remote control backlight on for 8 seconds.

Title: Press this button to access the multiple titles (if available) of a DVD.

Menu: Press this button to access the DVD main menu.

Display: Press this button to toggle through the video screen display features: color, contrast, brightness, tint and display mode. The display mode consists of: normal, full, and zoom. Normal means the horizontal image not stretched and the borders at the left and right of the picture are blank. Full means the horizontal image is stretched across the display and all of the vertical lines are displayed. No borders are present. Wide means the horizontal image is stretched up and down the display and the image tends to be stretched at the borders instead of at the middle. Borders are not displayed. Press the left or right navigation keys to select the display mode.

Return: Press this button to exit the current active menu and return to the previous menu. This button will operate only when a DVD is being played and a menu is active.

Up: Press this button to move up the menu list of a DVD.

Down: Press this button to move down the menu list of a DVD.

Left: Press this button to move to the left of the menu list of a DVD.

Right: Press this button to move to the right of the menu list of a DVD.

Enter: Press this button to select items within a menu.

Audio: Press this button to open a menu that will operate only when a DVD is being played. The format and content of this function is defined by the disc and is dependent on the disc.

Subtitle: Press this button to open a menu that will operate only when a DVD is being played. The format and content of this function is defined by the disc and is dependent on the disc.

Angle: Press this button to open a menu that will operate only when a DVD is being played. The format and content of this function is defined by the disc and is dependent on the disc.

Next: Press this button to go to the next chapter or track of a DVD or CD.

Previous: Press this button to go to the previous chapter or track of a DVD or CD.

Fast Forward: Press this button to fast forward through the chapter or track of a DVD or CD. This button may not work when the DVD is playing the copyright or the previews.

Rewind: Press this button to rewind through the chapter or track of a DVD or CD. This button may not work when the DVD is playing the copyright or the previews.

Stop: Press this button to stop the play of a DVD or CD. Press this button twice to return to the beginning of the DVD.

Play/Pause: Press this button to turn the DVD player on, to start play of a DVD or CD and to toggle between play and pause of a DVD or CD.

1 through 0 (Numeric Keypad): The remote control numeric keypad provides you with the capability of direct chapter, title and track number selection. Press the button, located on the bottom left of the numeric key pad, within 3 seconds of inputting a numeric selection to clear all numeric inputs. Press the button, located on the bottom left of the numeric key pad, to select chapter, title, and track numbers greater than 9.

Battery Replacement

To change the batteries, do the following:

1. Remove the battery compartment door located on the bottom of the remote control.
2. Replace the two AA batteries in the compartment. Make sure that they are installed correctly.
3. Close the battery door securely.

NOTE: Do not store the remote control in heat or direct sunlight. This could damage the remote control and it would not be covered by your vehicles warranty. Keep the remote control stored in a cool, dry place. If the remote control is to be stored for a long period of time, remove the batteries and keep them in a cool, dry place.

Headphones

The DPVD system includes two sets of wireless headphones.

Each set of headphones has an ON/OFF control. An indicator light will illuminate on the headphones when they are on. If the light does not illuminate, the batteries may need to be replaced. See "Battery Replacement" later in this section for more information. To turn the headphones OFF activate the ON/OFF control. Each set of headphones has a volume knob. To adjust the volume, adjust this knob.

The headphones will automatically turn off if they lose the signal from the system after about four minutes in order to preserve their battery power. The signal may be lost if the system is turned off or if the headphones are out of range of the signal transmitters that are located below the video display screen.

Battery Replacement

To change the batteries, do the following:

1. Loosen the screw on the battery compartment door located on the left side of the headphone earpiece.
2. Replace the two AAA batteries in the compartment. Make sure that they are installed correctly.
3. Tighten the screws to close the compartment door.

NOTE: Do not store the headphones in heat or direct sunlight. This could damage the headphones and repairs would not be covered by your warranty. Keep the headphones stored in a cool, dry place. If the headphones are to be stored for a long period of time, remove the batteries and keep them in a cool, dry place.

Stereo RCA Jacks

The RCA jacks are located on the front of the disc player faceplate. These jacks allow you to connect audio and video signals from an auxiliary device such as a camcorder or a video game unit to your DPVD just as you would to a standard television. The L jack is for left audio, the R jack is for right audio and the V jack is used for video. The system requires standard RCA cables (not included) to connect your auxiliary device to the RCA jacks. Refer to the manufacturer's instructions for proper usage.

To use the auxiliary audio and video inputs on the DPVD, connect an external auxiliary device such as a camcorder to the jacks and turn on both the auxiliary device power and the power on the front of the disc player. To have use of these jacks, you must select AUX using the MODE button on the disc player faceplate or the remote control.

How to Change the Video Format when in the Auxiliary Mode

The auxiliary input video format is preset to NTSC. In some countries, the video format may be in PAL system.

To change the video format, perform the following:

- 1. Press the display menu button.
- 2. Press the navigation down arrow key to scroll down to Video Format.
- 3. Press the enter button to select Video Format.
- 4. Press the navigation key to select the PAL video format.
- 5. Press the enter button to accept the change.

Audio Output

Audio from the disc player or auxiliary inputs may be heard through the following possible sources:

- Wireless Headphones
- Vehicle Speakers
- Wired Headphones (not provided)

The DPVD system will always transmit the audio signal by infrared to the wireless headphones, if there is audio available. See "Headphones" previously for more information.

The DPVD system is capable of outputting audio to the vehicle speakers by using the radio. The DPVD system may be selected as an audio source on the radio if the system power is on. Once the DPVD system is selected as an audio source on the radio you may adjust the speaker volume on the radio. If the DPVD system power is not on, the DPVD system will not be an available source on the radio. Refer to the radio information for the radio that your vehicle has for more information.

SPECIAL TOOLS AND EQUIPMENT

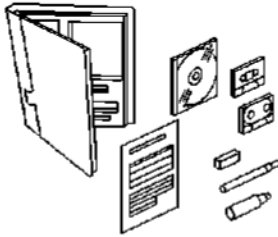
SPECIAL TOOLS

Special Tools

Illustration	Tool Number/ Description

2004 Cadillac SRX

2004 ACCESSORIES & EQUIPMENT Entertainment - SRX



J 39916-A
CD and Cassette Diagnostic Audio Kit