

2006 Chevrolet Impala LS

2006 ACCESSORIES & EQUIPMENT Seats - Impala

2006 ACCESSORIES & EQUIPMENT

Seats - Impala

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Center Seat Armrest Bolt	3 N.m	25 lb in
Front Center Seat Bolt	44 N.m	32 lb ft
Front Seat Adjuster Bolt	45 N.m	33 lb ft
Front Seat Back Cushion Frame Bolt	45 N.m	33 lb ft
Front Seat Cushion Frame Bolt	45 N.m	33 lb ft
Front Seat Cushion Frame Nut	9 N.m	80 lb in
Front Seat Cushion Outer Trim Panel Screw	2 N.m	18 lb in
Front Seat Heater Control Module Screw	2 N.m	18 lb in
Power Recliner Motor Bolt	9 N.m	80 lb in
Rear Seat Armrest Nut	3 N.m	25 lb in
Rear Seat Back Cushion Bolt	45 N.m	33 lb ft
Rear Seat Back Cushion Nut	45 N.m	33 lb ft

SCHEMATIC AND ROUTING DIAGRAMS

DRIVER SEAT SCHEMATICS

2006 Chevrolet Impala LS

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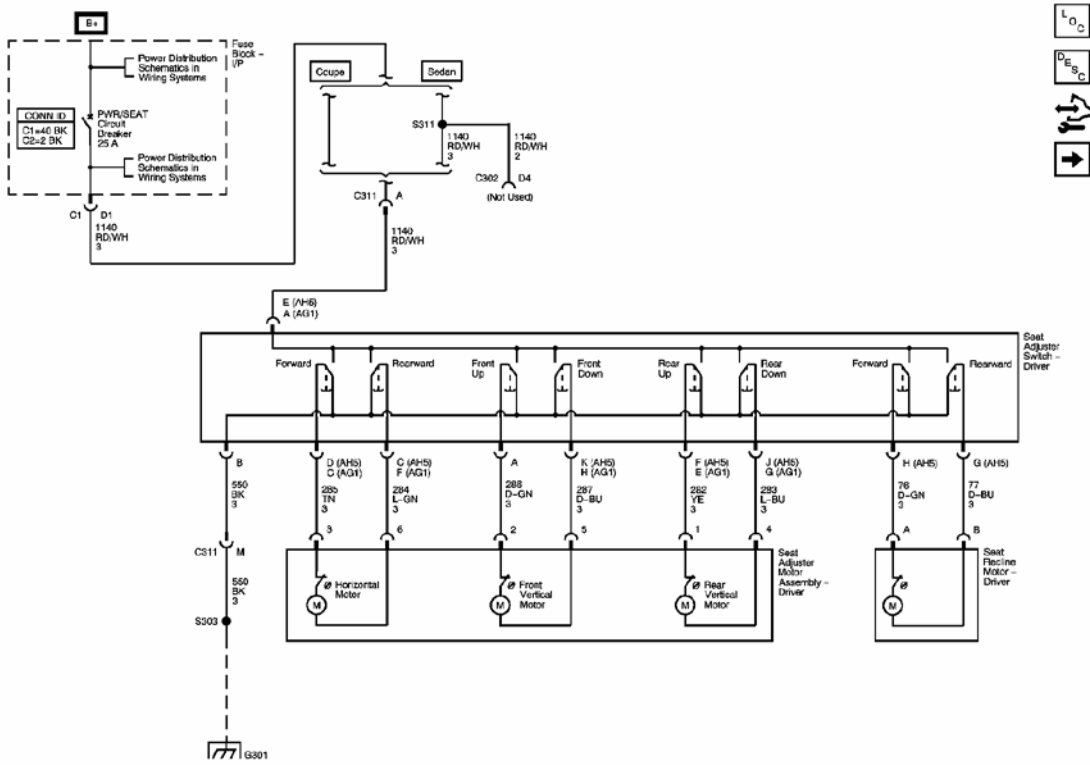


Fig. 1: 8-Way Power - Wiring Diagram
Courtesy of GENERAL MOTORS CORP.

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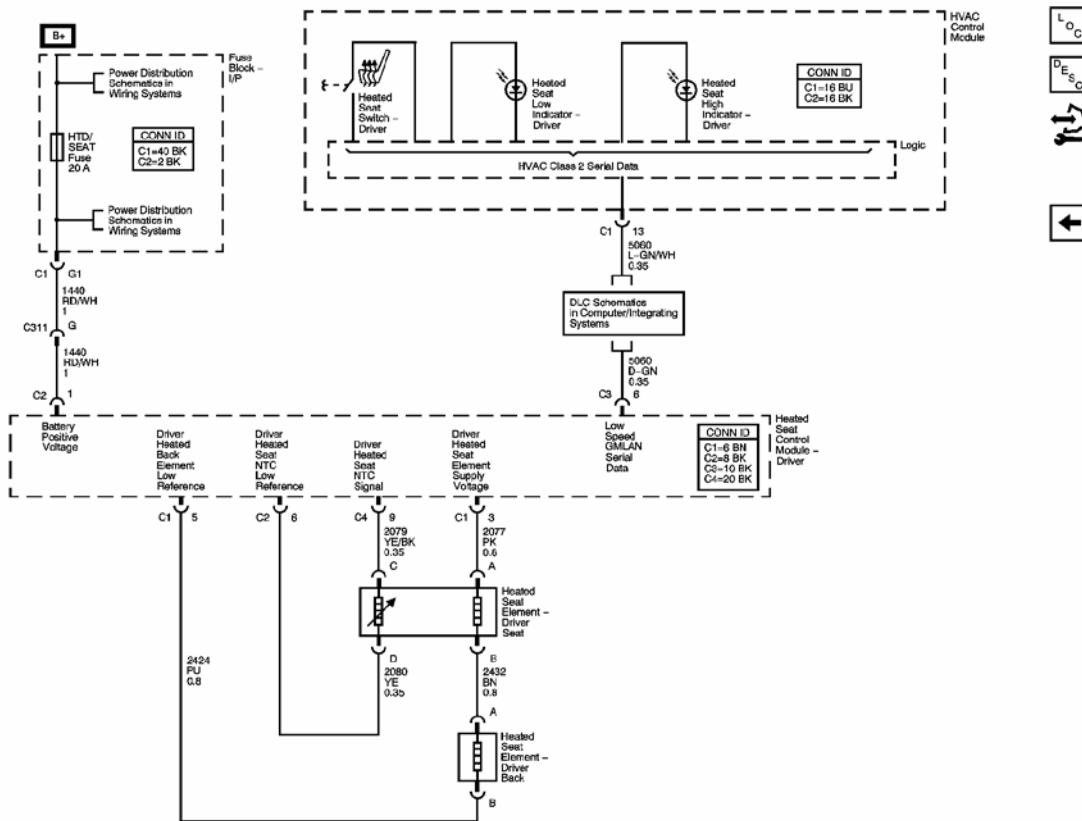


Fig. 2: Heat Controls - Wiring Diagram
Courtesy of GENERAL MOTORS CORP.

PASSENGER SEAT SCHEMATICS

2006 Chevrolet Impala LS

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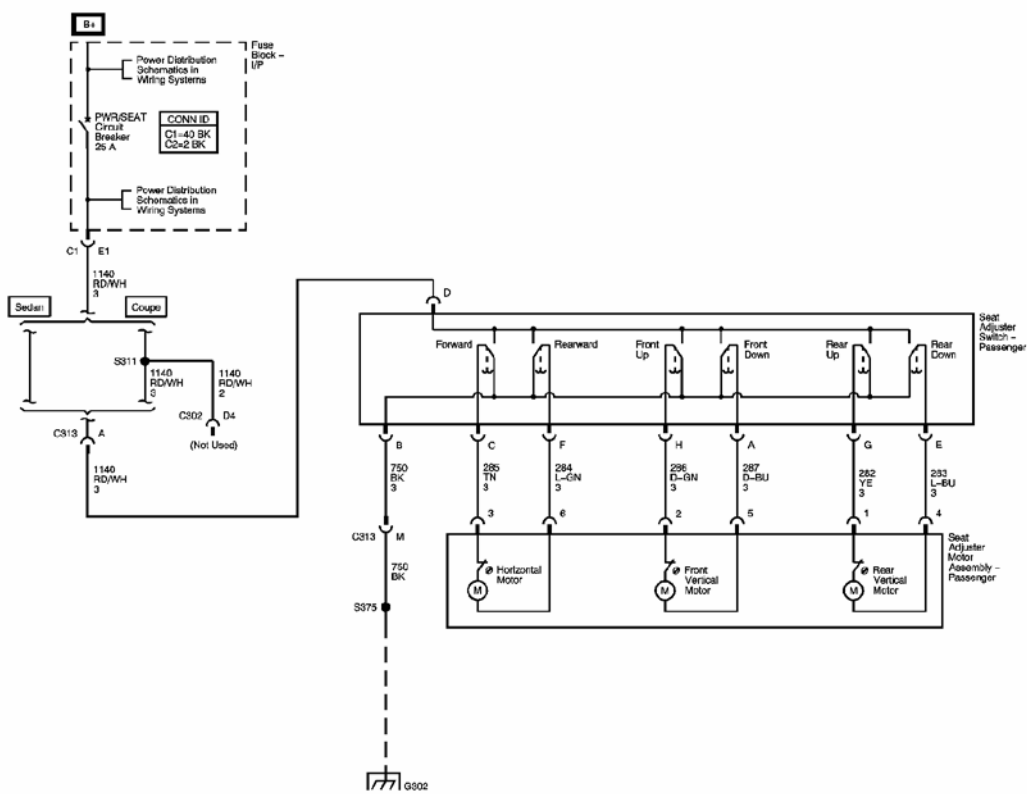


Fig. 3: 6-Way Power - Wiring Diagram
Courtesy of GENERAL MOTORS CORP.

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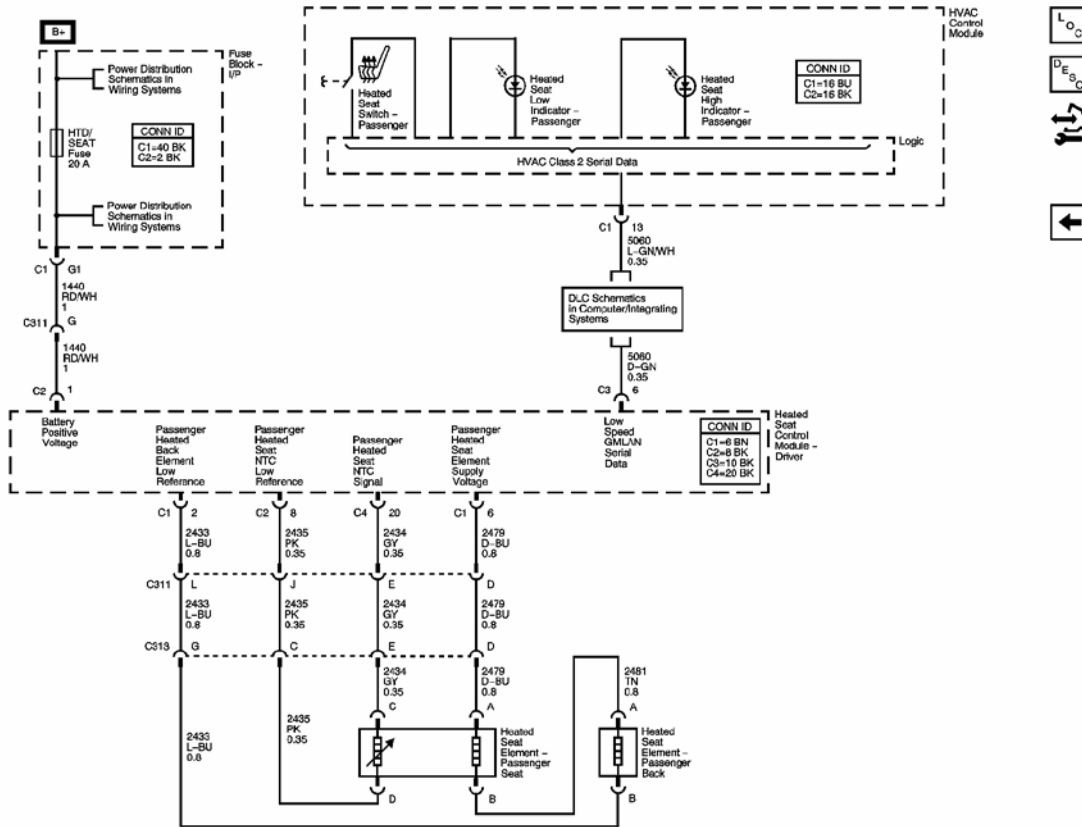


Fig. 4: Heat Controls - Wiring Diagram
Courtesy of GENERAL MOTORS CORP.

COMPONENT LOCATOR

POWER SEAT SYSTEMS COMPONENT VIEWS

2006 Chevrolet Impala LS

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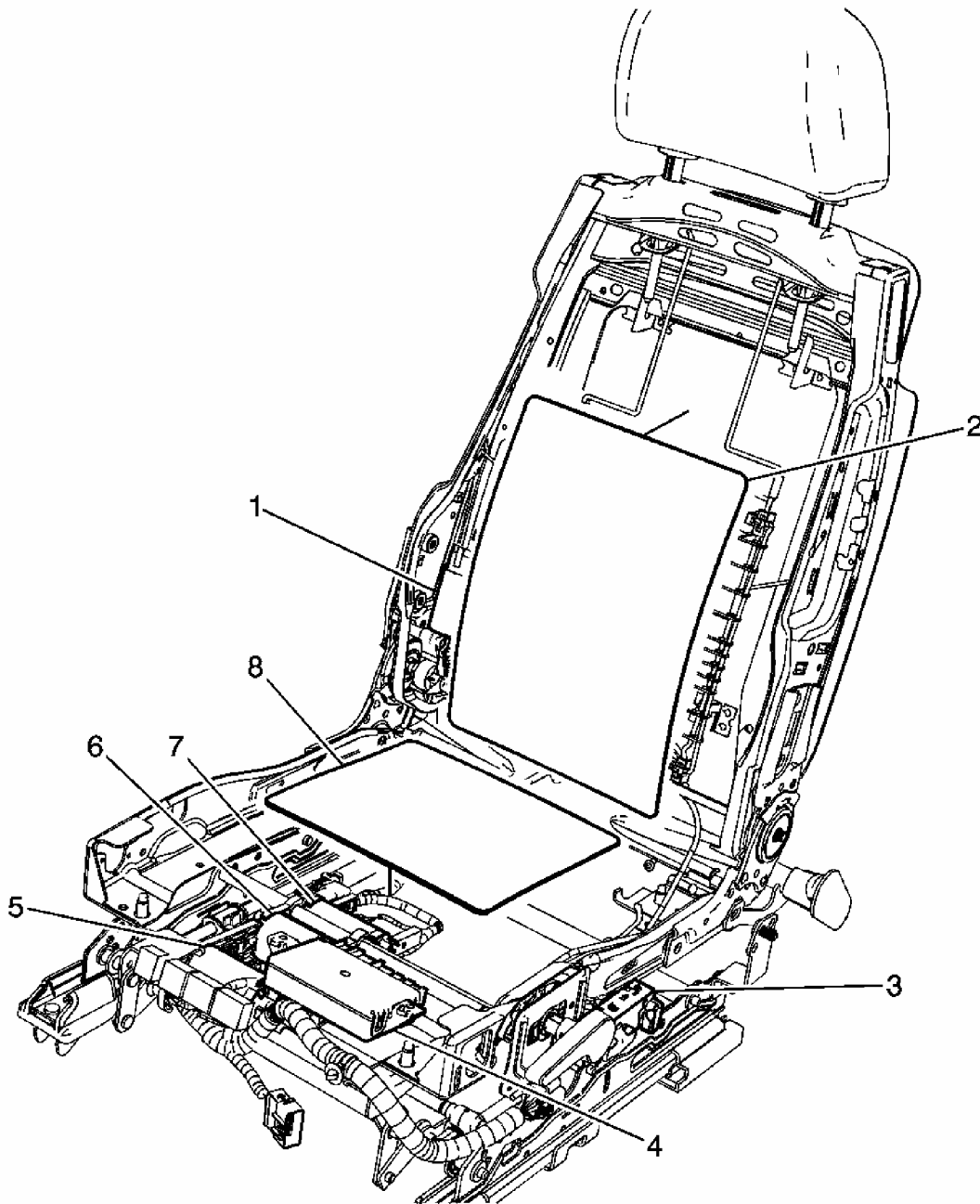


Fig. 5: Driver Seat Components
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 5

Callout	Component Name
1	Seat Lumbar Motor
2	Heated Seat Element - Driver - Back (KA1)
3	Seat Adjuster Switch - Driver

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4	Heated Seat Control Module (KA1)
5	Seat Horizontal Motor
6	Seat Adjuster Motor - Front
7	Seat Adjuster Motor - Rear
8	Heated Seat Element - Driver - Seat (KA1)

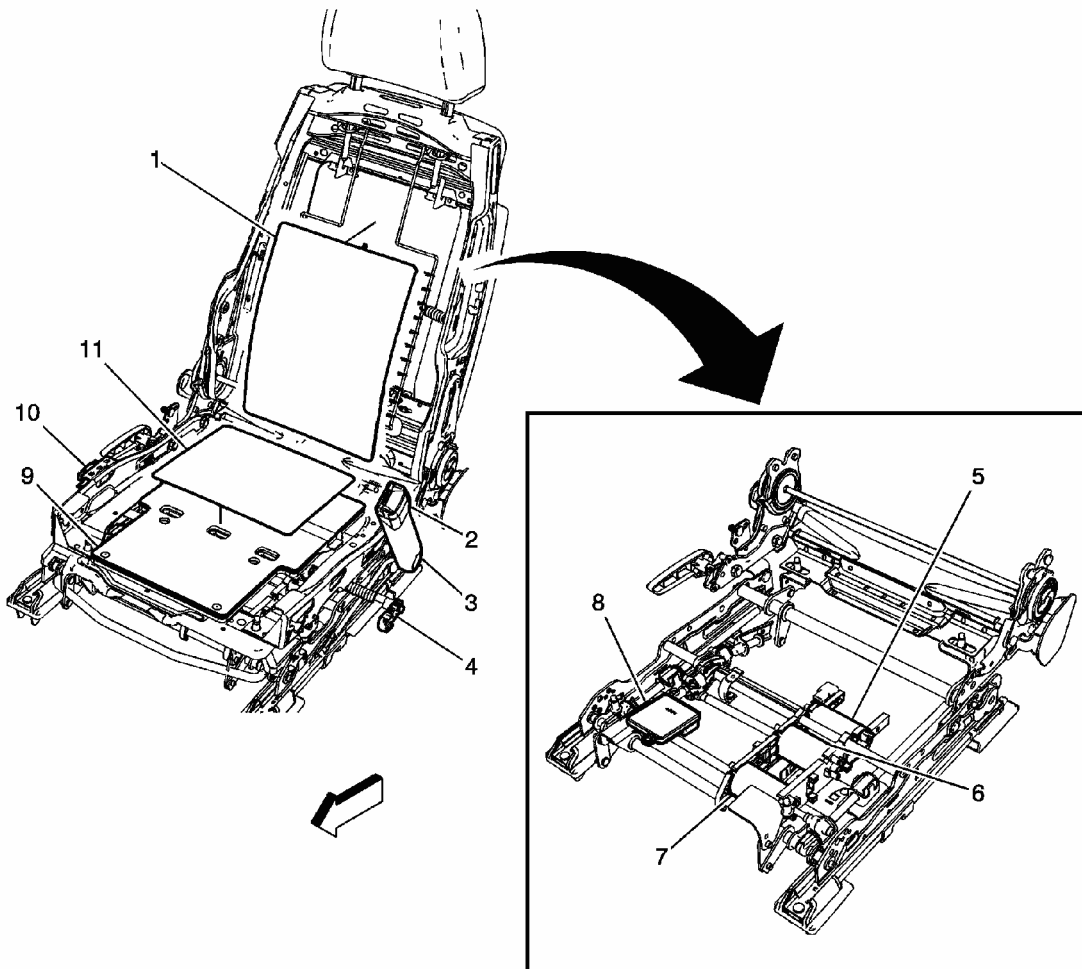


Fig. 6: Passenger Seat Components
Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 6

Callout	Component Name
1	Heated Seat Element - Passenger - Back (KA1)
2	Seat Belt Switch - Passenger
3	Inflatable Restraint Front Passenger Presence System (PPS) Sensor
4	Seat Adjuster Motor - Rear
5	Seat Adjuster Motor - Front
6	Seat Horizontal Motor

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7	Inflatable Restraint Front Passenger Presence System (PPS) Module
8	Inflatable Restraint Front Passenger Presence System (PPS) Sensor Pad
9	Seat Adjuster Switch - Passenger
10	Heated Seat Element - Passenger - Seat (KA1)

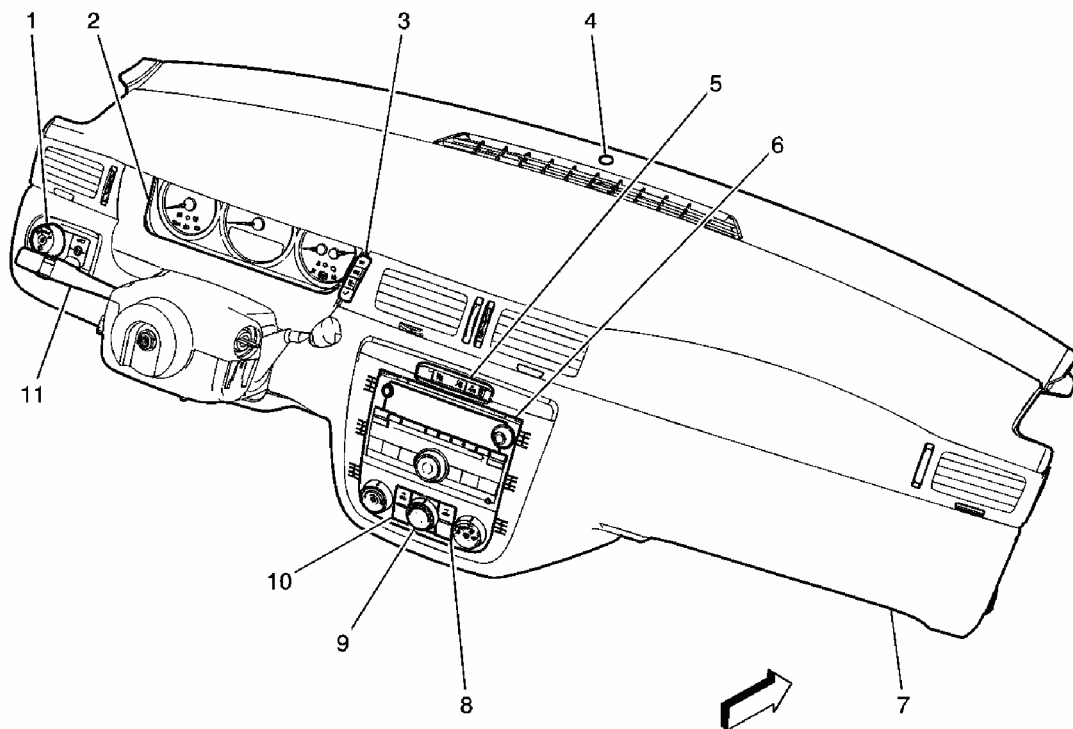


Fig. 7: I/P Components

Courtesy of GENERAL MOTORS CORP.

Callouts For Fig. 7

Callout	Component Name
1	Headlamp Switch
2	Instrument Panel Cluster (IPC)
3	Driver Information Center (DIC) Switch
4	Ambient Light Sensor
5	Inflatable Restraint Passenger Air Bag On/Off Indicator (Sedan w/o 9C1, 9C3)
6	Radio
7	I/P Trim Panel
8	Heated Seat Switch-Passenger (KA7)
9	HVAC Control Module

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10	Heated Seat Switch-Driver (KA7)
11	Turn Signal / Multifunction Switch

POWER SEAT SYSTEMS CONNECTOR END VIEWS

Heated Seat Control Module - Driver C1 (KA1)

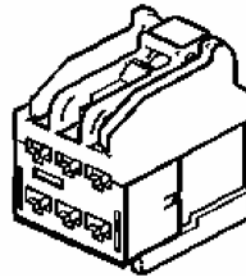
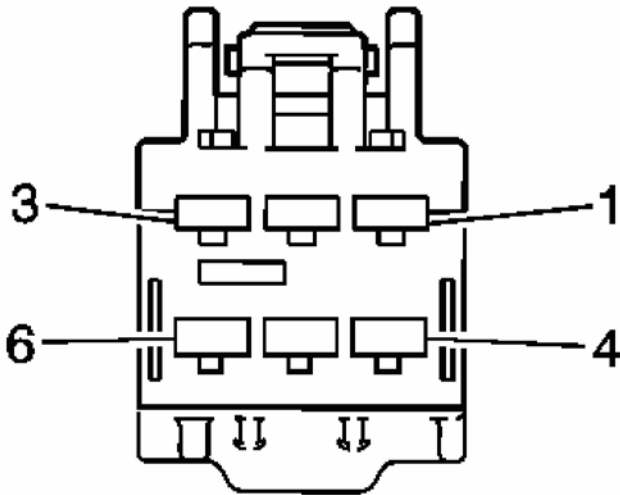


Fig. 8: Connector End Views
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 15486524
- Service: See Catalog
- Description: 6-Way F 2.8mm Sumitomo (BN)

Terminal Part Information

- Terminal/Tray: 8100-4444/22
- Core/Insulation Crimp: 2/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

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Heated Seat Control Module - Driver C1 (KA1)

Pin	Wire Color	Circuit No.	Function
1	-	-	Not Used
2	L-BU	2433	Passenger Heated Seat Back Element Control
3	PK	2077	Heated Seat Cushion Element Supply Voltage
4	-	-	Not Used
5	PU	2424	Driver Heated Seat Back Element Control
6	D-BU	2479	Passenger Heated Seat Element Supply Voltage

Heated Seat Control Module - Driver C2 (KA1)

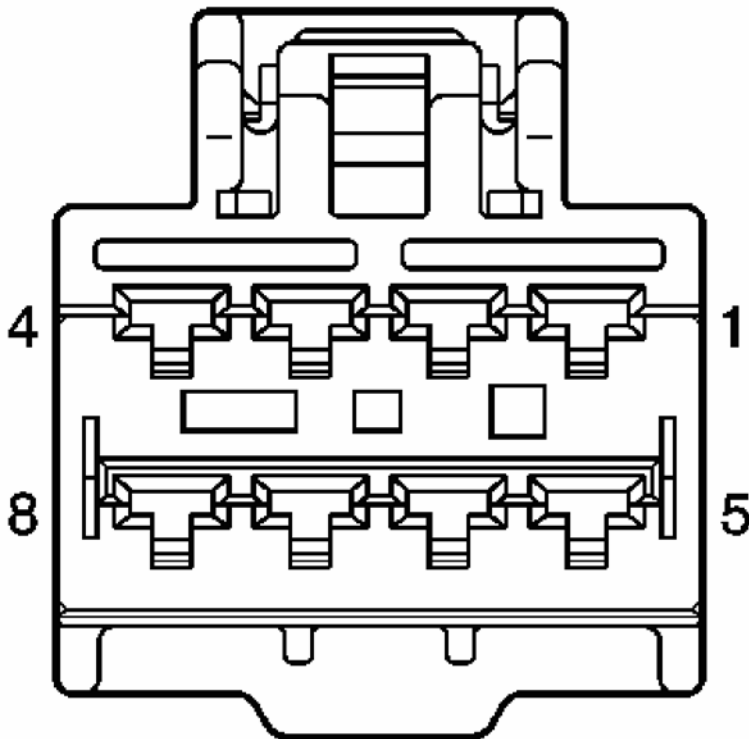


Fig. 9: Connector End View

Courtesy of GENERAL MOTORS CORP.

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Power Seat Systems Connector End Views

Connector Part Information

- OEM: 15491286
- Service: 88988652
- Description: 8-Way F Receptacle 2.8 (BK)

Terminal Part Information

- Pins: 1, 2
- Terminal/Tray: 8100-4444/22
- Core/Insulation Crimp: 2/A
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)
- Pins: 6, 8
- Terminal/Tray: 8100-4443/22
- Core/Insulation Crimp: See Terminal Repair Kit
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

Heated Seat Control Module - Driver C2 (KA1)

Pin	Wire Color	Circuit No.	Function
1	RD/WH	1440	Battery Positive Voltage
2	BK	550	Ground
3-5	-	-	Not Used
6	YE	2080	Driver Heated Seat Cushion Temperature Sensor Low Reference
7	-	-	Not Used
8	PK	2435	Passenger Heated Seat Cushion Temperature Sensor Low Reference

Heated Seat Control Module - Driver C3 (KA1)

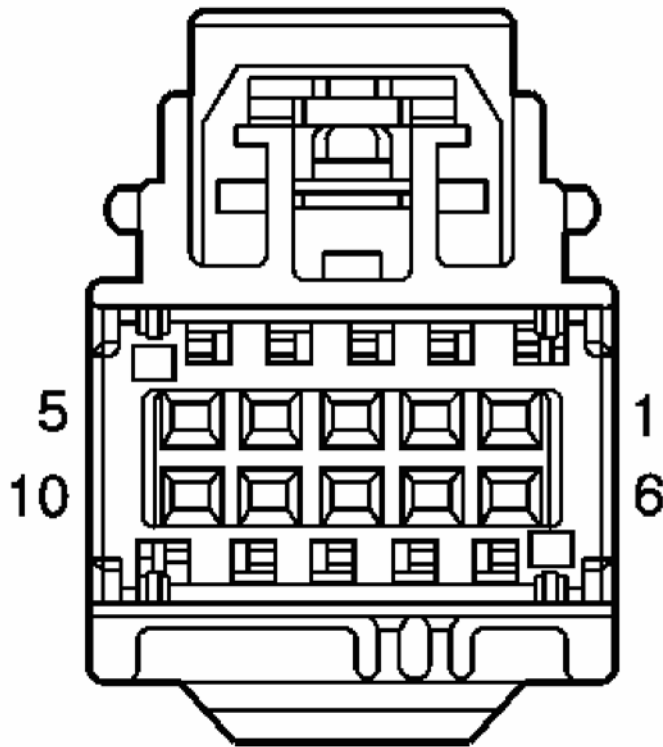


Fig. 10: Connector End Views
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 15491259
- Service: See Catalog
- Description: 10-Way F Yazaki Unsealed (BK)

Terminal Part Information

- Pins: 6
- Terminal/Tray: 7116-4618-02/14
- Core/Insulation Crimp: P/P
- Release Tool/Test Probe: J-38125-215/J-35616-64A (L-BU)

Heated Seat Control Module - Driver C3 (KA1)

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Pin	Wire Color	Circuit No.	Function
1-5	-	-	Not Used
6	D-GN	5060	Low Speed GMLAN Serial Data
7-10	-	-	Not Used

Heated Seat Control Module - Driver C4 (KA1)

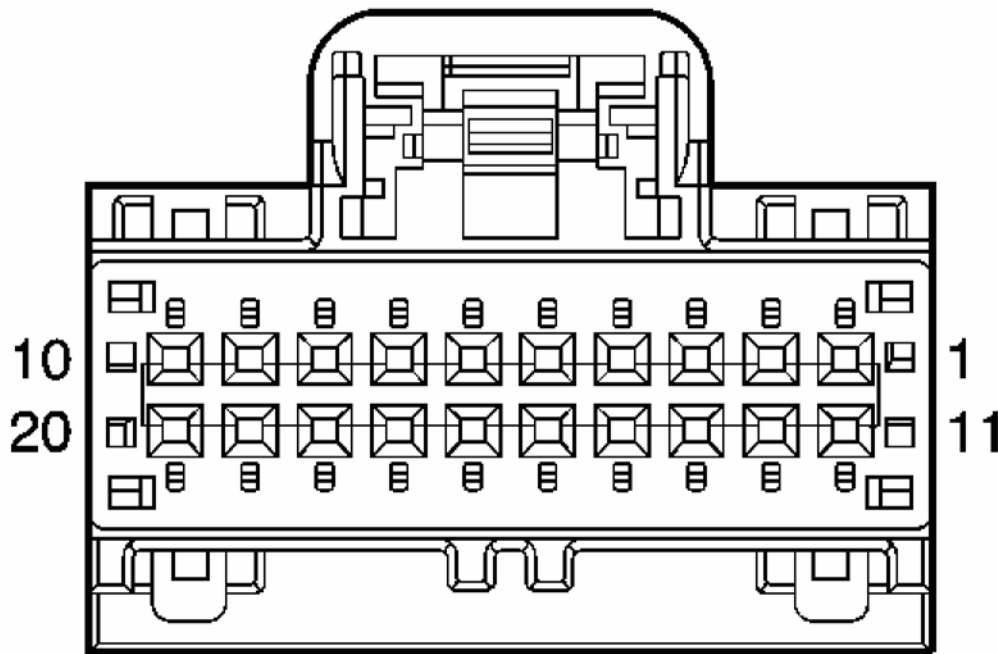


Fig. 11: Connector End Views

Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 15489824
- Service: See Catalog
- Description: 20-Way F Receptacle 0.64 (BK)

Terminal Part Information

- Pins: 9, 20
- Terminal/Tray: 7116-4618-02/14

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- Core/Insulation Crimp: P/P
- Release Tool/Test Probe: J-38125-215/J-35616-64A (L-BU)

Heated Seat Control Module - Driver C4 (KA1)

Pin	Wire Color	Circuit No.	Function
1-8	-	-	Not Used
9	YE/BK	2079	Heated Seat Cushion Temperature Sensor Signal
10-19	-	-	Not Used
20	GY	2434	Passenger Heated Seat Cushion Temperature Sensor Signal

Heated Seat Element - Driver - Back (KA1)

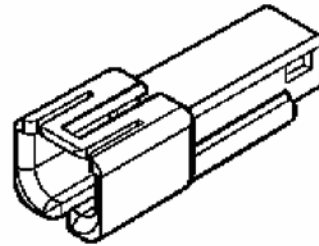
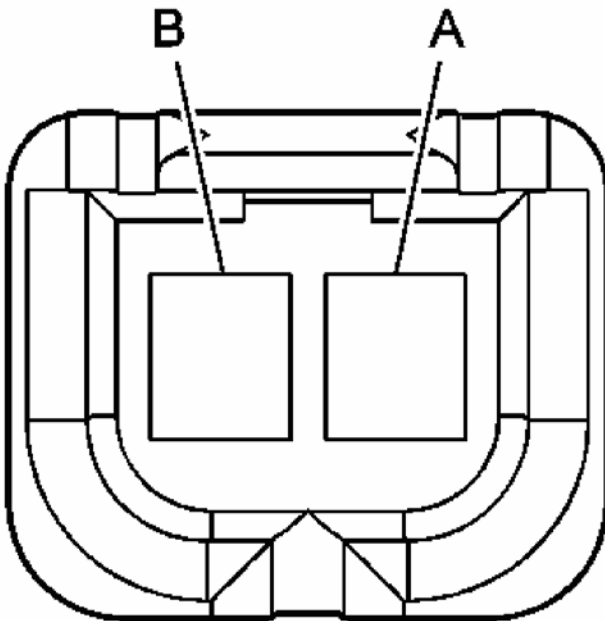


Fig. 12: Connector End View
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 12064778

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- Service: See Catalog
- Description: 2-Way M Metri-Pack 150 Series (L-GN)

Terminal Part Information

- Terminal/Tray: 12047581/2
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 12094429/J-35616-3 (GY)

Heated Seat Element - Driver - Back (KA1)

Pin	Wire Color	Circuit No.	Function
A	BN	2432	Driver Heated Seat Back Element Supply Voltage
B	PU	2424	Driver Heated Seat Back Element Control

Heated Seat Element - Driver - Seat (KA1)

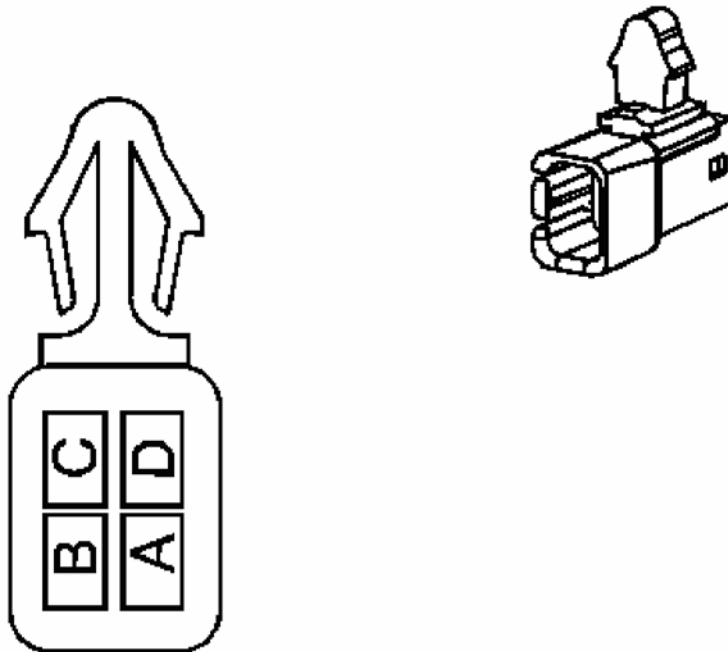


Fig. 13: Connector End View
Courtesy of GENERAL MOTORS CORP.

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Power Seat Systems Connector End Views

Connector Part Information

- OEM: 12066498
- Service: See Catalog
- Description: 4-Way M Metri-Pack 150 Series (BK)

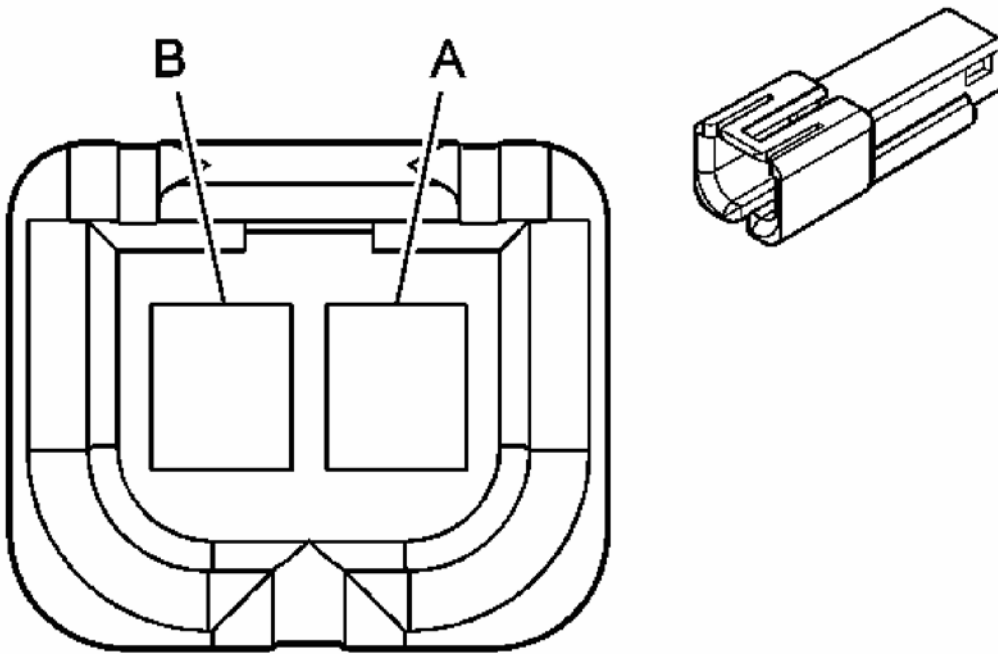
Terminal Part Information

- Terminal/Tray: 12047581/2
- Core/Insulation Crimp: Pins A, B - E/A
- Core/Insulation Crimp: Pins C, D - E/C
- Release Tool/Test Probe: 12094429/J-35616-3 (GY)

Heated Seat Element - Driver - Seat (KA1)

Pin	Wire Color	Circuit No.	Function
A	PK	2077	Heated Seat Cushion Element Supply Voltage
B	BN	2432	Driver Heated Seat Back Element Supply Voltage
C	YE/BK	2079	Heated Seat Cushion Temperature Sensor Signal
D	YE	2080	Driver Heated Seat Cushion Temperature Sensor Low Reference

Heated Seat Element - Passenger - Back

**Fig. 14: Connector End View**

Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views**Connector Part Information**

- OEM: 12064778
- Service: See Catalog
- Description: 2-Way M Metri-Pack 150 Series (L-GN)

Terminal Part Information

- Terminal/Tray: 12047581/2
- Core/Insulation Crimp: E/A
- Release Tool/Test Probe: 12094429/J-35616-3 (GY)

Heated Seat Element - Passenger - Back

Pin	Wire Color	Circuit No.	Function
A	TN	2481	Passenger Heated Seat Back Element Supply Voltage
B	L-BU	2433	Passenger Heated Seat Back Element

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Control

Heated Seat Element - Passenger - Seat

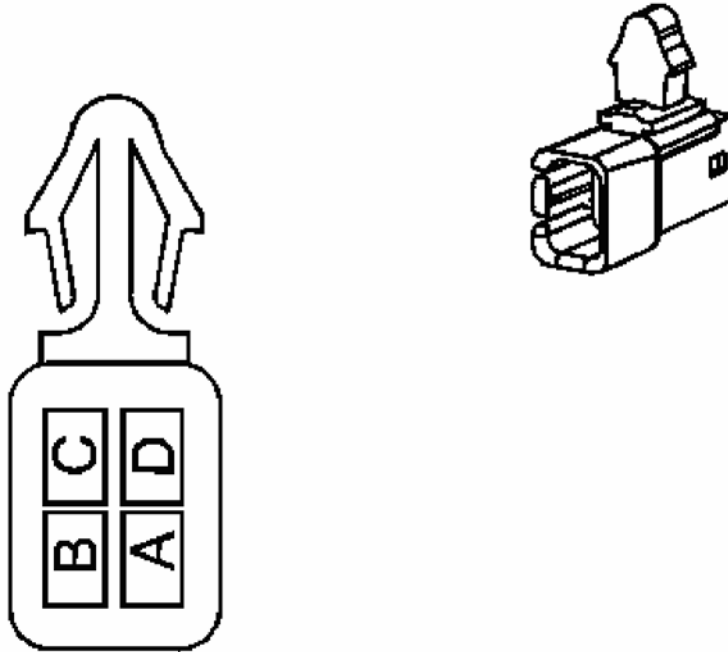


Fig. 15: Connector End View

Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 12066498
- Service: See Catalog
- Description: 4-Way M Metri-Pack 150 Series (BK)

Terminal Part Information

- Terminal/Tray: 12047581/2
- Core/Insulation Crimp: Pins A, B - E/A
- Core/Insulation Crimp: Pins C, D - E/C
- Release Tool/Test Probe: 12094429/J-35616-3 (GY)

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Heated Seat Element - Passenger - Seat

Pin	Wire Color	Circuit No.	Function
A	D-BU	2479	Passenger Heated Seat Element Supply Voltage
B	TN	2481	Passenger Heated Seat Back Element Supply Voltage
C	GY	2434	Passenger Heated Seat Cushion Temperature Sensor Signal
D	PK	2435	Passenger Heated Seat Cushion Temperature Sensor Low Reference

Seat Adjustor Motor Assembly - Driver

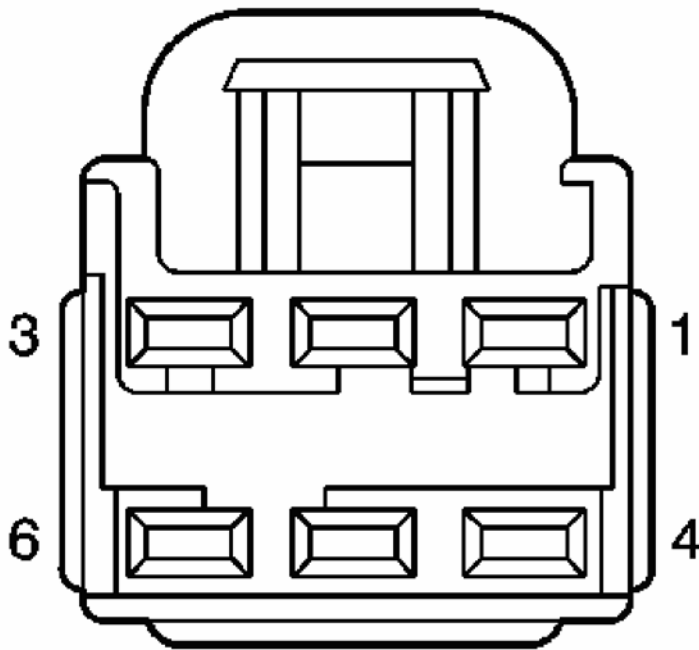


Fig. 16: Connector End View
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 10847014

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- Service: See Catalog
- Description: 6-Way F Yazaki 2.8mm Unsealed (L-GY)

Terminal Part Information

- Terminal/Tray: 7116-4112-02/9
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Seat Adjustor Motor Assembly - Driver

Pin	Wire Color	Circuit No.	Function
1	YE	282	Driver Seat Rear Vertical Motor Up Control
2	D-GN	286	Driver Seat Front Vertical Motor Up Control
3	TN	285	Driver Seat Horizontal Motor Forward Control
4	L-BU	283	Driver Seat Rear Vertical Motor Down Control
5	D-BU	287	Driver Seat Front Vertical Motor Down Control
6	L-GN	284	Driver Seat Horizontal Motor Rearward Control

Seat Adjustor Motor Assembly - Passenger

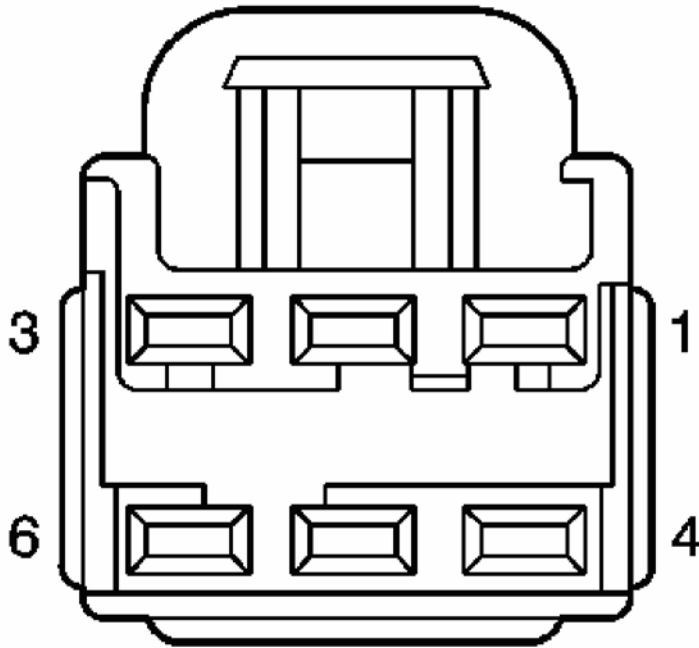


Fig. 17: Connector End View
 Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 10847014
- Service: See Catalog
- Description: 6-Way F Yazaki 2.8mm Unsealed (L-GY)

Terminal Part Information

- Terminal/Tray: 7116-4112-02/9
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

Seat Adjustor Motor Assembly - Passenger

Pin	Wire Color	Circuit No.	Function
1	YE	282	Driver Seat Rear Vertical Motor Up Control
			Driver Seat Front Vertical Motor Up

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2	D-GN	286	Control
3	TN	285	Driver Seat Horizontal Motor Forward Control
4	L-BU	283	Driver Seat Rear Vertical Motor Down Control
5	D-BU	287	Driver Seat Front Vertical Motor Down Control
6	L-GN	284	Driver Seat Horizontal Motor Rearward Control

Seat Adjustor Switch - Driver (AG1)

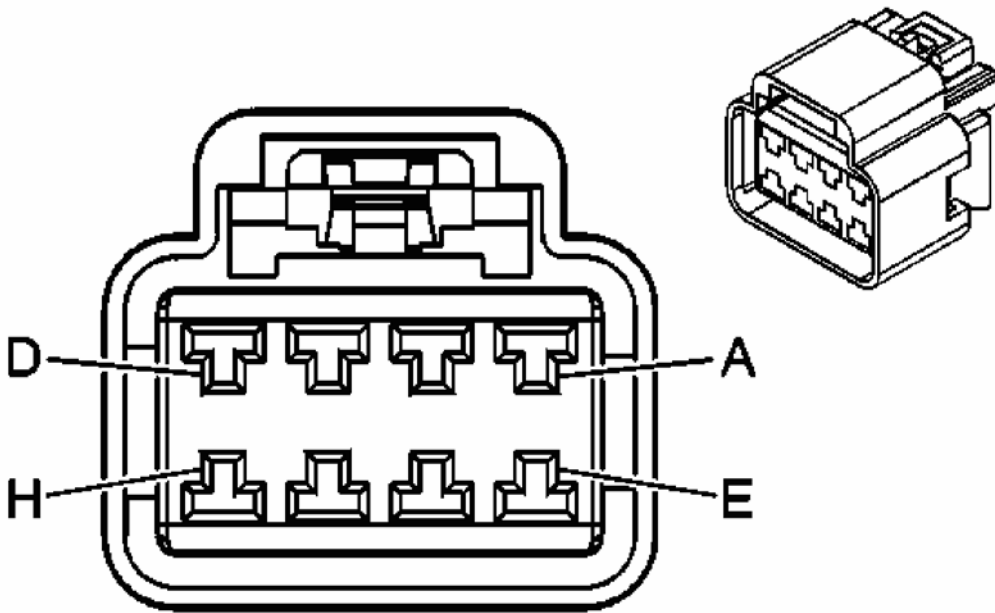


Fig. 18: Seat Adjustor Switch Connector End View
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 15326924
- Service: 15306174
- Description: 8-Way F GT 280 (BK)

Terminal Part Information

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- Terminal/Tray: 15304713/19
- Core/Insulation Crimp: F/D
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

Seat Adjustor Switch - Driver (AG1)

Pin	Wire Color	Circuit No.	Function
A	D-GN	286	Driver Seat Front Vertical Motor Up Control
B	BK	550	Ground
C	TN	285	Driver Seat Horizontal Motor Forward Control
D	RD/WH	1140	Battery Positive Voltage
E	YE	282	Driver Seat Rear Vertical Motor Up Control
F	L-GN	284	Driver Seat Horizontal Motor Rearward Control
G	L-BU	283	Driver Seat Rear Vertical Motor Down Control
H	D-BU	287	Driver Seat Front Vertical Motor Down Control

Seat Adjustor Switch - Driver (AH5)

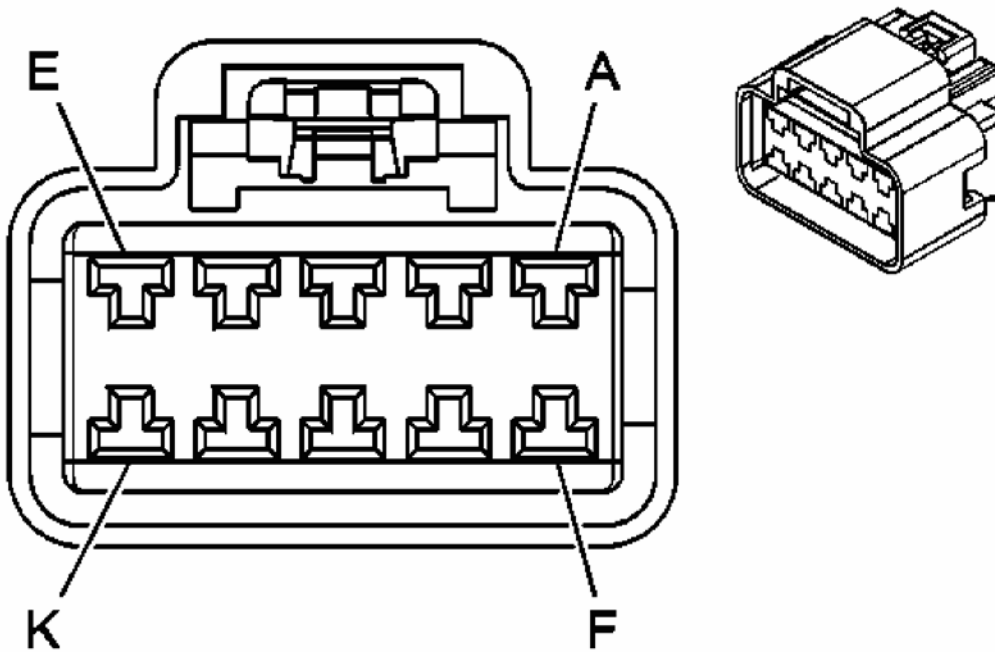


Fig. 19: Connector End View
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 15326931
- Service: 15306309
- Description: 10-Way F GT 280 (BK)

Terminal Part Information

- Terminal/Tray: 15304713/19
- Core/Insulation Crimp: F/D
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

Seat Adjustor Switch - Driver (AH5)

Pin	Wire Color	Circuit No.	Function
A	D-GN	286	Driver Seat Front Vertical Motor Up Control
B	BK	550	Ground

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C	L-GN	284	Driver Seat Horizontal Motor Rearward Control
D	TN	285	Driver Seat Horizontal Motor Forward Control
E	RD/WH	1140	Battery Positive Voltage
F	YE	282	Driver Seat Rear Vertical Motor Up Control
G	D-BU	77	Passenger Seat Recline Motor Rearward
H	D-GN	76	Passenger Seat Recline Motor Forward
J	L-BU	283	Driver Seat Rear Vertical Motor Down Control
K	D-BU	287	Driver Seat Front Vertical Motor Down Control

Seat Adjustor Switch - Passenger (AG2)

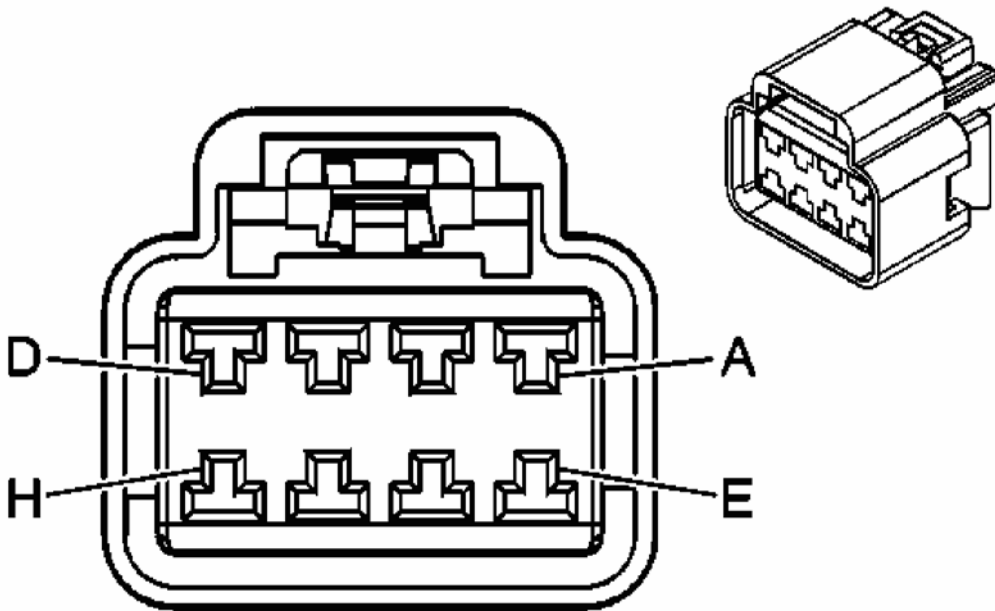


Fig. 20: Connector End View
Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

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2006 ACCESSORIES & EQUIPMENT Seats - Impala

Connector Part Information

- OEM: 15326924
- Service: 15306174
- Description: 8-Way F GT 280 Series (BK)

Terminal Part Information

- Terminal/Tray: 15304713/19
- Core/Insulation Crimp: F/D
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

Seat Adjustor Switch - Passenger (AG2)

Pin	Wire Color	Circuit No.	Function
A	D-BU	287	Passenger Seat Front Vertical Motor Down Control
B	BK	750	Ground
C	TN	285	Passenger Seat Horizontal Motor Forward Control
D	RD/WH	1140	Battery Positive Voltage
E	L-BU	283	Passenger Seat Rear Vertical Motor Down Control
F	L-GN	284	Passenger Seat Horizontal Motor Rearward Control
G	YE	282	Passenger Seat Rear Vertical Motor Up Control
H	D-GN	286	Passenger Seat Front Vertical Motor Up Control

Seat Recline Motor - Driver (AH5)

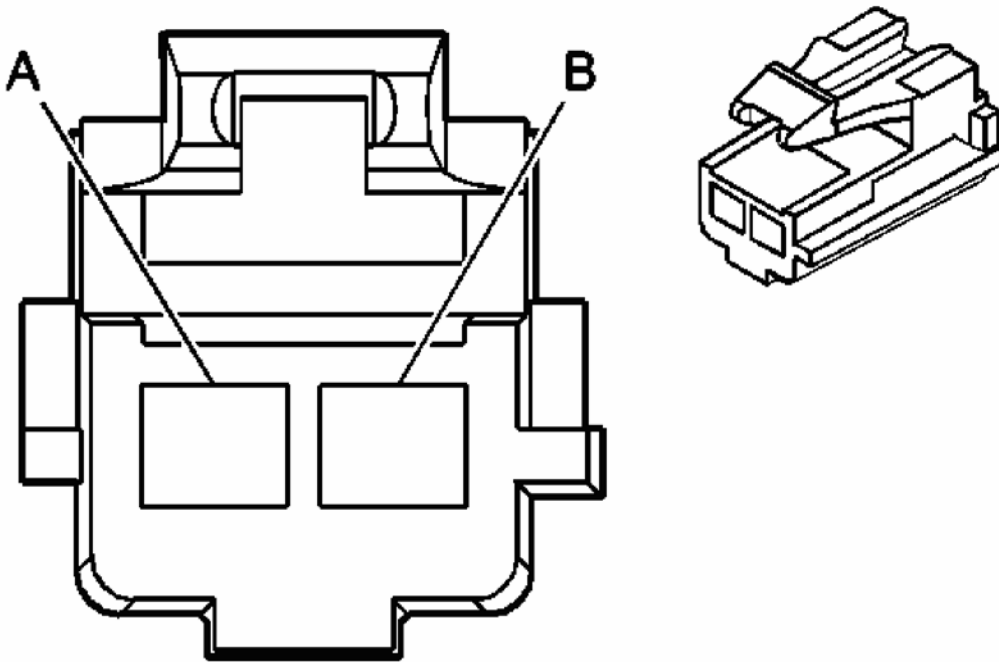


Fig. 21: Connector End View
 Courtesy of GENERAL MOTORS CORP.

Power Seat Systems Connector End Views

Connector Part Information

- OEM: 12129081
- Service: See Catalog
- Description: 2-Way F Metri-Pack 280 Flex Lock (BK)

Terminal Part Information

- Terminal/Tray: 12110842/4
- Core/Insulation Crimp: F/G
- Release Tool/Test Probe: 15315247/J-35616-4A (PU)

Seat Recline Motor - Driver (AH5)

Pin	Wire Color	Circuit No.	Function
A	D-GN	76	Passenger Seat Recline Motor Forward
B	D-BU	77	Passenger Seat Recline Motor

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Rearward

DIAGNOSTIC INFORMATION AND PROCEDURES

DIAGNOSTIC CODE INDEX

DIAGNOSTIC CODE INDEX

DTC	Description
<u>DTCs B1925 02, B1925 05, B2170 02 and B2170 05</u>	Left Seat Heater Cushion Sensor Circuit Shorted to Ground, Left Seat Heater Cushion Sensor Circuit Shorted to Battery or Open, Right Seat Heater Cushion Sensor Circuit Shorted to Ground, Right Seat Heater Cushion Sensor Circuit Shorted to Battery or Open
<u>DTC B2425 04, B2425 0A, B2425 0B, B2425 1F, B2430 04, B2430 0A, B2430 0B, B2430 1F</u>	Left Seat Heater Circuit Open, Left Seat Heater Circuit Rate of Change Below Threshold, Left Seat Heater Circuit Current Above Threshold, Left Seat Heater Circuit Intermittent, Right Seat Heater Circuit Open, Right Seat Heater Circuit Rate of Change Below Threshold, Right Seat Heater Circuit Current Above Threshold, Right Seat Heater Circuit Intermittent

DIAGNOSTIC STARTING POINT - SEATS

Always begin the diagnosis by reviewing the system Description and Operation. Reviewing the Description and Operation will help you determine the correct symptom diagnostic procedure when a malfunction exists. Reviewing the Description and Operation will also help you determine if the condition described by the customer is normal operation.

Begin diagnosis with the **Diagnostic System Check - Vehicle** in Vehicle DTC Information. 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 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.

SCAN TOOL DATA LIST

Memory Seat Module (MSM)

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Ignition ON/Engine OFF			

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8-Digit GM Part Number	ID Information	Numeric	Varies
Battery Voltage	Data	Volts	Varies
Calibration ID	ID Information	Numeric	Varies
Current	Data	amps	0.5-8.5
Front Vertical Sensor	Sensor Data 1	A/D/Volts	0.0-255/0.0-5.0
Horizontal Sensor	Sensor Data 1	A/D/Volts	0.0-255/0.0-5.0
Lumbar Horizontal Sensor	Sensor Data 2	A/D/Volts	0.0-255/0.0-5.0
PROM ID	ID Information	Numeric	Varies
Rear Vertical Sensor	Sensor Data 1	A/D/Volts	0.0-255/0.0-5.0
Recline Sensor	Sensor Data 1	A/D/Volts	0.0-255/0.0-5.0
Seat Forward	Inputs and Outputs	Active/Inactive	Inactive
Seat Front Down	Inputs and Outputs	Active/Inactive	Inactive
Seat Front Up	Inputs and Outputs	Active/Inactive	Inactive
Seat Lumbar Forward	Inputs and Outputs	Active/Inactive	Inactive
Seat Lumbar Rearward	Inputs and Outputs	Active/Inactive	Inactive
Seat Rearward	Inputs and Outputs	Active/Inactive	Inactive
Seat Rear Down	Inputs and Outputs	Active/Inactive	Inactive
Seat Rear Up	Inputs and Outputs	Active/Inactive	Inactive
Seat Recline Forward	Inputs and Outputs	Active/Inactive	Inactive
Seat Recline Rearward	Inputs and Outputs	Active/Inactive	Inactive

Driver Door Switch Assembly (DDSA)

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Ignition ON/Engine OFF			
8-Digit GM Part Number	ID Information	Numeric	Varies
Battery Voltage	Data	Volts	Varies
Calibration ID	ID Information	Numeric	Varies
Julian Date of Build	ID Information	Numeric	Varies
Memory Recall Switches	Inputs	Idle Memory 1 Memory 2 Exit	Idle

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Year Module Built	ID Information	Numeric	Varies
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Rear Integration Module (RIM)

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Ignition ON/Engine OFF			
8-Digit GM Part Number	ID Information	Numeric	Varies
Battery Voltage	Data	Volts	Varies
Driver Heated Seat Status	Input/Output	Off/On	Off
Hardware ID	ID Information	Numeric	Varies
Julian Date of Build	ID Information	Numeric	Varies
Load Shed Lvl. 1 Heated Seats	Input/Output	Enable/Disabled	Disabled
Load Shed Lvl. 2 Heated Seats	Input/Output	Enable/Disabled	Disabled
Pass. Heated Seat Status	Input/Output	Off/On	Off
PROM ID	ID Information	Numeric	Varies
Year Module Built	ID Information	Numeric	Varies

Climate Control Panel

Scan Tool Parameter	Data List	Units Displayed	Typical Data Value
Ignition ON/Engine OFF			
8-Digit GM Part Number	Module Information	Numeric	Varies
Calibration ID	Module Information	Numeric	Varies
Driver Heated Seat Status	Non-HVAC Data	Off/High/Low	Off
Driver Heated Seat Sw.	Non-HVAC Data	Pressed/Off	Off
Julian Date of Build	Module Information	Numeric	Varies
Passenger Heated Seat Status	Non-HVAC Data	Off/High/Low	Off
Pass. Heated Seat Sw.	Non-HVAC Data	Pressed/Off	Off
PROM ID	Module Information	Numeric	Varies
Year Module Built	Module Information	Numeric	Varies

SCAN TOOL DATA DEFINITIONS

8 - Digit GM Part Number

The scan tool displays the part number of the module.

Battery Voltage

The scan tool displays 0-16 Volts. The voltage measured between the module's battery positive circuit and ground circuit.

Calibration ID

The scan tool displays a 4-digit number. This number designates the calibration or program level used in the PROM.

Current

The scan tool displays 0-127.5 amps. The amount of amps used during seat operation.

Driver Heated Seat Status - CCP

The scan tool displays Off/High/Low. When the heated seat is on, the scan tool will display the status signal from the rear integration module to the climate control panel as High or Low.

Driver Heated Seat Status - RIM

The scan tool displays On/Off. When the heated seat is on, the scan tool will display the status signal from the heated seat module to the rear integration module as On.

Driver Heated Seat Sw. - CCP

The scan tool displays Idle/Pressed. When the driver heated seat switch is pressed, the scan tool will momentarily display the switch input of the climate control panel as Pressed.

Front Vertical Sensor

The scan tool displays 0-5.0 Volts or 0-255 A/D. The sensor potentiometer provides an analog voltage which varies directly with the seat front vertical position. High scan tool values (Volts or A/D) indicate that the seat front is in the up position and low values indicate that the seat front is in the down position.

Horizontal Sensor

The scan tool displays 0-5.0 Volts or 0-255 A/D. The sensor potentiometer provides an analog voltage which varies directly with the seat horizontal position. High scan tool

values (Volts or A/D) indicate that the seat is in the forward position and low values indicate that the seat is in the rearward position.

Julian Date of Build

The scan tool displays a 3-digit number. This number is the day of the year that the module was built.

Load Shed Lvl. 1 Heated Seat

The scan tool displays Disabled/Enable. During a pre-determined heavy loading condition, the driver information module (DIM) will send out a class 2 message to the rear integration module (RIM) that a load shed level 1 is in effect and the scan tool will display Enable.

Load Shed Lvl. 2 Heated Seat

The scan tool displays Disabled/Enable. During a pre-determined heavy loading condition, the driver information module (DIM) will send out a class 2 message to the rear integration module (RIM) that a load shed level 2 is in effect and the scan tool will display Enable.

Lumbar Horizontal Sensor

The scan tool displays 0-5.0 Volts or 0-255 A/D. The sensor potentiometer provides an analog voltage which varies directly with the lumbar horizontal position. High scan tool values (Volts or A/D) indicate that the Lumbar is in the forward position and low values indicate that the lumbar is in the rearward position.

Memory Recall Switches

The scan tool displays Idle/Memory 1/memory 2/Exit. When a memory function switch is pressed, the scan tool will momentarily display the function as selected.

Pass. Heated Seat Status - RIM

The scan tool displays Off/On. When the heated seat is ON, the scan tool will display the status signal from the heated seat module to the rear integration module (RIM) as On.

Pass. Heated Seat SW. - CCP

The scan tool displays Idle/Pressed. When the passenger heated seat switch is pressed, the scan tool will momentarily display the heated seat switch input of the climate control panel as Pressed.

Passenger Heated Seat Status - CCP

The scan tool displays Off/High/Low. When the passenger heated seat switch is pressed, the scan tool will display the status signal from the rear integration module to the climate control panel as High or Low.

Personalization Option

This is the state of the personalization option as it is stored in the Dash Integration Module (DIM). When the Personalization Option is selected, the scan tool displays the directions to activate or deactivate the personalization option. The asterisk beside the option indicates that the personalization option is activated. The personalization option is normally set to the activated state during assembly of the vehicle.

PROM ID

The scan tool displays a 4-digit number. This is the identification number of the PROM that is incorporated into the module.

Rear Vertical Sensor

The scan tool displays 0-5.0 Volts or 0-255 A/D. The sensor potentiometer provides an analog voltage which varies directly with the seat rear vertical position. High scan tool values (Volts or A/D) indicate that the seat rear vertical is in the up position and low values indicate that the seat rear vertical is in the down position.

Recline Sensor

The scan tool displays 0-5.0 Volts or 0-255 A/D. The sensor potentiometer provides an analog voltage which varies directly with the seat recline position. High scan tool values (Volts or A/D) indicate that the seat recline is in the forward position and low values indicate that the seat recline is in the rearward position.

Seat Forward - Input

The scan tool displays Inactive/Active. When the seat forward switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Forward - Output

The scan tool displays Inactive/Active. When the seat forward switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat horizontal motor in the forward direction.

Seat Front Down - Input

The scan tool displays Inactive/Active. When the seat front down switch is activated the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Front Down - Output

The scan tool displays Inactive/Active. When the seat front down switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat front vertical motor in the down direction.

Seat Front Up - Input

The scan tool displays Inactive/Active. When the seat front up switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Front Up - Output

The scan tool displays Inactive/Active. When the seat front up switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat front vertical motor in the up direction.

Seat Lumbar Forward - Input

The scan tool displays Inactive/Active. When the seat lumbar forward switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Lumbar Forward - Output

The scan tool displays Inactive/Active. When the seat lumbar forward switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the lumbar horizontal motor in the forward direction.

Seat Lumbar Rearward - Input

The scan tool displays Inactive/Active. When the seat lumbar rearward switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Lumbar Rearward - Output

The scan tool displays Inactive/Active. When the seat lumbar rearward switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the lumbar horizontal motor in the rearward direction.

Seat Rear Down - Input

The scan tool displays Inactive/Active. When the seat rear down switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Rear Down - Output

The scan tool displays Inactive/Active. When the seat rear down switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat rear vertical motor in the down direction.

Seat Rear Up - Input

The scan tool displays Inactive/Active. When the seat rear up switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Rear Up - Output

The scan tool displays Inactive/Active. When the seat rear up switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat rear vertical motor in the up direction.

Seat Rearward - Input

The scan tool displays Inactive/Active. When the seat rearward switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Rearward - Output

The scan tool displays Inactive/Active. When the seat rearward switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat horizontal motor in the rearward direction.

Seat Recline Forward - Input

The scan tool displays Inactive/Active. When the seat recline forward switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Recline Forward - Output

The scan tool displays Inactive/Active. When the seat recline forward switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat recline motor in the forward direction.

Seat Recline Rearward - Input

The scan tool displays Inactive/Active. When the seat recline rearward switch is activated, the scan tool will momentarily display the switch input to the memory seat module as Active.

Seat Recline Rearward - Output

The scan tool displays Inactive/Active. When the seat recline rearward switch is activated or when a memory recall occurs, the scan tool will display Active while the output from the memory seat module is commanding the seat recline motor in the rearward direction.

Year Module Built

The scan tool displays a 4-digit number. This number represents the year the module was built.

DTC B1925 OR B2170**DTC Descriptor**

This diagnostic procedure supports the following DTCs:

DTC B1925 02

Left Seat Heater Cushion Sensor Circuit Shorted to Ground

DTC B1925 05

Left Seat Heater Cushion Sensor Circuit Shorted to Battery or Open

DTC B2170 02

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Right Seat Heater Cushion Sensor Circuit Shorted to Ground

DTC B2170 05

Right Seat Heater Cushion Sensor Circuit Shorted to Battery or Open

Diagnostic Fault Information**IMPORTANT: Always perform the prior to using this diagnostic procedure.****DTC B1925 or B2170**

Circuit	Short to Ground	Open/High Resistance	Short to Voltage
Driver Heated Seat Element Control	B2425 0C	B2425 04	-
Driver Heated Seat Element Supply Voltage	B2425 0B	B2425 04	B2425 0C
Driver Heated Seat Temperature Sensor Low Reference	-	B1925 05	-
Driver Heated Seat Temperature Sensor Signal	B1925 02	B1925 05	B1925 05
Passenger Heated Seat Element Control	B2430 0C	B2430 04	-
Passenger Heated Seat Element Supply Voltage	B2430 0B	B2430 04	B2430 0C
Passenger Heated Seat Temperature Sensor Low Reference	-	B2170 05	-
Passenger Heated Seat Temperature Sensor Signal	B2170 02	B2170 05	B2170 05

Circuit/System Description

The heated seat temperature sensor that set this diagnostic trouble code (DTC) is located in the seat cushion just under the seat cover with the seat heating element. The heated seat module supplies a separate 5 volt reference voltage through the temperature sensor signal circuit and a ground through the low reference circuit to the sensor. The module monitors the voltage of the sensor signal circuit to determine the temperature of the seat. The temperature sensor varies in resistance based on the temperature of the heating element, causing the signal voltage to change. Once the seat reaches the set temperature, the module will then cycle the control circuit of the heating elements ON and OFF in order to maintain the desired seat temperature based on the feedback voltage from the sensors.

Conditions for Running the DTC

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The heated seat module is active, and none of the power diagnostic DTCs are current.

Conditions for Setting the DTC

B1925/B2170 02

The temperature sensor voltage drops below 0.80 volts for more than 1 second.

B1925/B2170 05

The temperature sensor voltage exceeds 5 volts for more than 1 second.

Action Taken When the DTC Sets

The heated seat function for the affected seat will be disabled.

Conditions for Clearing the DTC

- The current DTC will clear 3 seconds after the reference voltage returns to normal operating range.
- The history DTC will clear after 50 consecutive fault-free ignition cycles have occurred.

Reference Information

Schematic Reference

- **Driver Seat Schematics**
- **Passenger Seat Schematics**

Connector End View Reference

Power Seat Systems Connector End Views

Electrical Information Reference

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

- **Scan Tool Data List**
- **Scan Tool Data Definitions**

Circuit/System Testing

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1. Ignition OFF, disconnect the heated seat module harness connectors C2 and C4.
2. Test for 850-12.0K ohms of resistance between the signal circuit and the low reference circuit of the seat temperature sensor.
 - If greater than 12.0K ohms, test the signal circuit and low reference circuit for a short to voltage or an open/high resistance. If the circuits/connections test normal, replace the heated seat temperature sensor.
 - If less than 850 ohms, test the signal circuit for a short to ground. If the circuit/connections test normal, replace the heated seat temperature sensor.
3. If all circuits/connections circuits test normal, replace the heated seat module.

Repair Procedures

IMPORTANT: Always perform the after completing the diagnostic procedure.

- Seat Cushion Heater Element Replacement - Front (Impala) or Seat Cushion Heater Element Replacement - Front (Monte Carlo)
- Control Module References for Heated Seat Control Module Replacement-Front.

DTC B2425 OR B2430

DTC Descriptor

This diagnostic procedure supports the following DTCs:

DTC B2425 04

Left Seat Heater Circuit Open

DTC B2425 0A

Left Seat Heater Circuit Rate of Change Below Threshold

DTC B2425 0B

Left Seat Heater Circuit Current Above Threshold

DTC B2425 1F

Left Seat Heater Circuit Intermittent

DTC B2430 04

Right Seat Heater Circuit Open

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DTC B2430 0A

Right Seat Heater Circuit Rate of Change Below Threshold

DTC B2430 0B

Right Seat Heater Circuit Current Above Threshold

DTC B2430 1F

Right Seat Heater Circuit Intermittent

Diagnostic Fault Information

IMPORTANT: Always perform the prior to using this diagnostic procedure.

DTC B2425 or B2430

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Driver Heated Seat Element Control	B2425 0C	B2425 04	-	-
Driver Heated Seat Element Supply Voltage	B2425 0B	B2425 04	B2425 0C	-
Driver Heated Seat Temperature Sensor Low Reference	-	B1925 05	-	-
Driver Heated Seat Temperature Sensor Signal	B1925 02	B1925 05	B1925 05	-
Passenger Heated Seat Element Control	B2430 0C	B2430 04	-	-
Passenger Heated Seat Element Supply Voltage	B2430 0B	B2430 04	B2430 0C	-
Passenger Heated Seat Temperature Sensor Low Reference	-	B2170 05	-	-
Passenger Heated Seat Temperature Sensor Signal	B2170 02	B2170 05	B2170 05	-

Circuit/System Description

When the heated seat function is active, the heated seat module supplies battery voltage through the element supply voltage circuit to the seat heater elements. The module controls the seat temperature by providing a ground through the heated seat element control circuit to

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the seat heater elements. The module then monitors the current flow through the heating element and the temperature sensor rate of change to verify correct operation.

Conditions for Running the DTC

The heated seat module is active, and none of the power diagnostic DTCs are current.

Conditions for Setting the DTC

The following conditions exist for more than 1 second:

B2425/B2430 04

The module does not detect a temperature change within 30 seconds.

B2425/B2430 0A

The module detects that the set point temperature has not been reached within 5 minutes.

B2425/B2430 0B

By measuring output current, the heated seat module calculates that the heating element resistance is below the minimum resistance for more than 300mS.

B2425/B2430 0C

By measuring output current, the heated seat module calculates that the heating element resistance is above the maximum resistance for more than 300mS.

B2425/B2430 1F

The temperature sensor voltage is erratic or changes suddenly.

Action Taken When the DTC Sets

The heated seat function for the affected seat will be disabled.

Conditions for Clearing the DTC

- The current DTC clears when the malfunction is no longer present, and the power mode changes to OFF then back to ACC or RUN.
- The history DTC will clear after 50 consecutive fault-free ignition cycles have occurred.

Reference Information

Schematic Reference

- **Driver Seat Schematics**

- **Passenger Seat Schematics**

Connector End View Reference**Power Seat Systems Connector End Views****Electrical Information Reference**

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

- **Scan Tool Data List**
- **Scan Tool Data Definitions**

Circuit/System Testing

1. Ignition OFF, disconnect the seat back heating element harness connector.
2. Test for less than 6.0 ohms of resistance between the supply voltage terminal and the control terminal of the heater element.
 - If greater than 6.0 ohms, replace the seat back heating element.
3. Connect the seat back heating element harness connector.
4. Disconnect the heated seat module harness connectors C2 and C4.
5. Test for less than 6.0 ohms of resistance between the heating element supply voltage circuit and the heating element control circuit of the seat heating elements.
 - If greater than 6.0 ohms, test the supply voltage circuit and the control circuit for an open/high resistance. If the circuits/connections test normal, replace the seat cushion heating element.
6. Test the supply voltage circuit of the seat heating elements for a short to battery voltage.
7. Test the control circuit of the seat heating elements for a short to ground.
8. If all circuits/connections circuits test normal, replace the heated seat module.

Repair Procedures

IMPORTANT: Always perform the after completing the diagnostic procedure.

- **Seat Back Heater Element Replacement - Front (Impala) or Seat Back Heater**

Element Replacement - Front (Monte Carlo)

- **Seat Cushion Heater Element Replacement - Front (Impala)** or **Seat Cushion Heater Element Replacement - Front (Monte Carlo)**
- **Control Module References** for Heated Seat Control Module Replacement-Front.

SYMPTOMS - SEATS

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

1. When diagnosing a heated seat system condition perform the **Diagnostic System Check - Vehicle** , before using the symptom tables in order to verify that all of the following are true:
 - There are no DTCs set.
 - The control module(s) can communicate via the serial data link.
2. Review the system description and operation from the following list in order to familiarize yourself with the system functions:
 - **Power Seats System Description and Operation**
 - **Heated Seats Description and Operation**

Visual/Physical Inspection

- Inspect for aftermarket devices which could affect the operation of the power seats. Refer to **Checking Aftermarket Accessories** .
- Inspect the easily accessible or visible system components for obvious damage or conditions which could cause the symptom.
- Inspect the seat adjuster track for conditions which may cause binding or objects within the seat adjustment range which obstruct movement or interfere with wiring.

Intermittent

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

Symptom List

Refer to the following in order to diagnosis the symptom:

- **Power Seat Inoperative**
- **Heated Seat Inoperative**

POWER SEAT INOPERATIVE**Power Seat Inoperative**

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Step	Action	Yes	No
Schematic Reference: <u>Driver Seat Schematics</u> or <u>Passenger Seat Schematics</u> Connector End View Reference: <u>Power Seat Systems Connector End Views</u> DEFINITION: One or more of the power seat functions are inoperative.			
1	Did you review the power seat system description and operation and perform the necessary inspections?	Go to Step 2	Go to Symptoms - Seats
2	1. Verify that the power seat inoperative complaint is present. 2. Attempt to operate all of the power seat motors through their full range of adjustment. Does the power seat system operate as described in the system description and operation?	Go to Testing for Intermittent Conditions and Poor Connections	Go to Step 3
3	Are all of the power seat motors inoperative?	Go to Step 4	Go to Step 6
4	1. Disconnect the seat adjuster switch. 2. Connect a test lamp from the battery positive voltage circuit of the switch connector to a good ground. Does the test lamp illuminate?	Go to Step 5	Go to Step 10
5	Connect a test lamp from the battery positive voltage circuit of the switch connector to the ground circuit of the switch connector. Does the test lamp illuminate?	Go to Step 9	Go to Step 11
6	1. Disconnect the inoperative seat motor. 2. Connect a test lamp between the motor control circuits of the harness connector. 3. Operate the appropriate seat switch in both directions. Does the test lamp illuminate in both directions?	Go to Step 8	Go to Step 7
	Test the motor control circuits for a short to ground or an open. Refer to the		

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7	following: • <u>Circuit Testing</u> • <u>Wiring Repairs</u> • <u>Connector Repairs</u> Did you find and correct the condition?	Go to Step 14	Go to Step 9
8	Inspect for poor connections at harness connector of the inoperative seat motor. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 14	Go to Step 13
9	Inspect for poor connections at harness connector of the seat adjuster switch. Refer to <u>Testing for Intermittent Conditions and Poor Connections</u> and <u>Connector Repairs</u> . Did you find and correct the condition?	Go to Step 14	Go to Step 12
10	Repair the short to ground or open in the battery positive voltage circuit of the seat adjuster switch. Refer to <u>Wiring Repairs</u> or <u>Connector Repairs</u> . Did you complete the repair?	Go to Step 14	-
11	Repair the open in the ground circuit of the seat adjuster switch. Refer to <u>Wiring Repairs</u> or <u>Connector Repairs</u> . Did you complete the repair?	Go to Step 14	-
12	Replace the seat adjuster switch. Refer to <u>Seat Switch Replacement - Power (Impala)</u> or <u>Seat Switch Replacement - Power (Monte Carlo)</u>. Did you complete the replacement?	Go to Step 14	-
13	Replace the seat motor. Refer to <u>Seat Adjuster Replacement - Front (Impala)</u> or <u>Seat Adjuster Replacement - Front (Monte Carlo)</u> or <u>Power Recliner Motor Replacement - Front Seat (Impala)</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****HEATED SEAT INOPERATIVE****Diagnostic Fault Information**

IMPORTANT: Always perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.

Circuit/System Description

The driver and front passenger heated seats are controlled by separate heated seat switches. Both switches are located in the climate control panel (CCP). When a heated seat switch is pressed, the CCP sends a GMLAN message via the serial data line to the heated seat module indicating the heated seat request. In response to this signal, the heated seat module activates the heated seat by applying battery voltage to the seat heating elements. The heated seat module then sends a GMLAN message back to the CCP commanding it to illuminate the appropriate seat temperature indicator.

Reference Information**Schematic Reference****Driver Seat Schematics**

- **Driver Seat Schematics**
- **Passenger Seat Schematics**

Connector End View Reference**Power Seat Systems Connector End Views****Electrical Information Reference**

- **Circuit Testing**
- **Connector Repairs**
- **Testing for Intermittent Conditions and Poor Connections**
- **Wiring Repairs**

Scan Tool Reference

- **Scan Tool Data List**
- **Scan Tool Data Definitions**

Circuit/System Testing

Ignition ON, use a scan tool to observe the appropriate Heated Seat Switch parameter while pressing the heated seat switch. The reading should change between Idle and Pressed.

- If not, replace the HVAC control module.
- If the parameter displays Pressed, replace the heated seat module.

Repair Procedures

IMPORTANT: Always perform the Diagnostic Repair Verification after completing the diagnostic procedure.

Control Module References for HVAC and heated seat control module replacement, setup, and programming.

POWER SEAT ADJUSTER MECHANICAL DIAGNOSIS

Power Seat Adjuster Mechanical Diagnosis

Condition	Possible Cause	Correction
Horizontal Operation of Seat Not Smooth but Jerky-Apparent Hard Operation	The adjuster horizontal actuator is damaged.	Replace the adjuster assembly.
Horizontal Chuck or Looseness	• The horizontal actuator is improperly adjusted to the rack. • The top plate subassembly is loose.	• Replace the adjuster assembly. • Replace the adjuster assembly.
One Adjuster Will Not Operate Horizontally	• The horizontal drive cable is disconnected or damaged. • The horizontal actuator is inoperative.	• Inspect the drive cables, they must be straight to be engaged. Replace if damaged. • Replace the adjuster assembly.
One Adjuster Will not Operate Vertically	• The vertical drive cable is disconnected or damaged. • The vertical actuator subassembly is inoperative.	• Inspect the vertical drive cables, replace if damaged. • Replace the adjuster assembly.
Both Adjusters Will Not Operate Horizontally and/or Vertically	• The motor is damaged or inoperative. • The wiring harness is	• Replace the adjuster assembly • Replace the wiring

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	damaged.	harness.
Vertical Chuck or Looseness	The vertical actuator is inoperative.	Replace the adjuster assembly.

REPAIR INSTRUCTIONS

FRONT BUCKET SEAT REPLACEMENT (IMPALA)

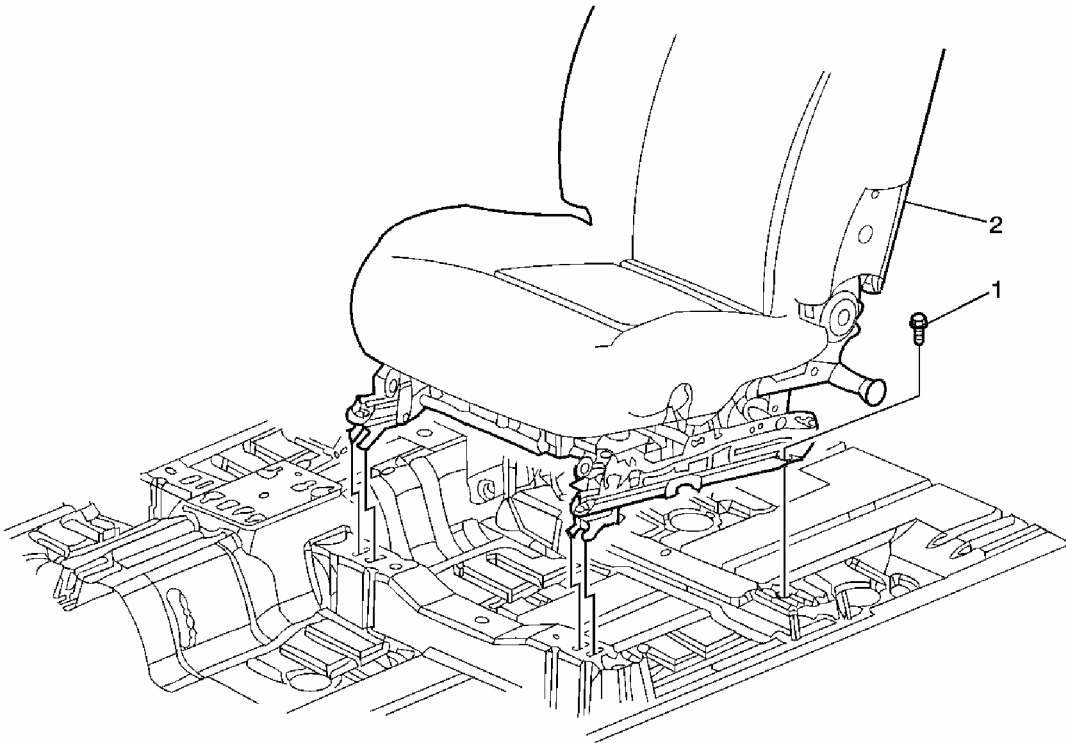


Fig. 22: Replacing Front Bucket Seat
Courtesy of GENERAL MOTORS CORP.

Seat Replacement - Front Bucket (Impala)

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications . Preliminary Procedure: Disconnect the seat belt from the seat. Refer to Seat Belt Retractor Pretensioner Replacement - Front .	
1	Bolt, Seat Adjuster (Qty: 2) Tip: Adjust the seat forward or rearward to access the bolts.

	Tighten: 45 N.m (33 lb ft)
2	Seat Assembly Tip: Disconnect the electrical connectors.

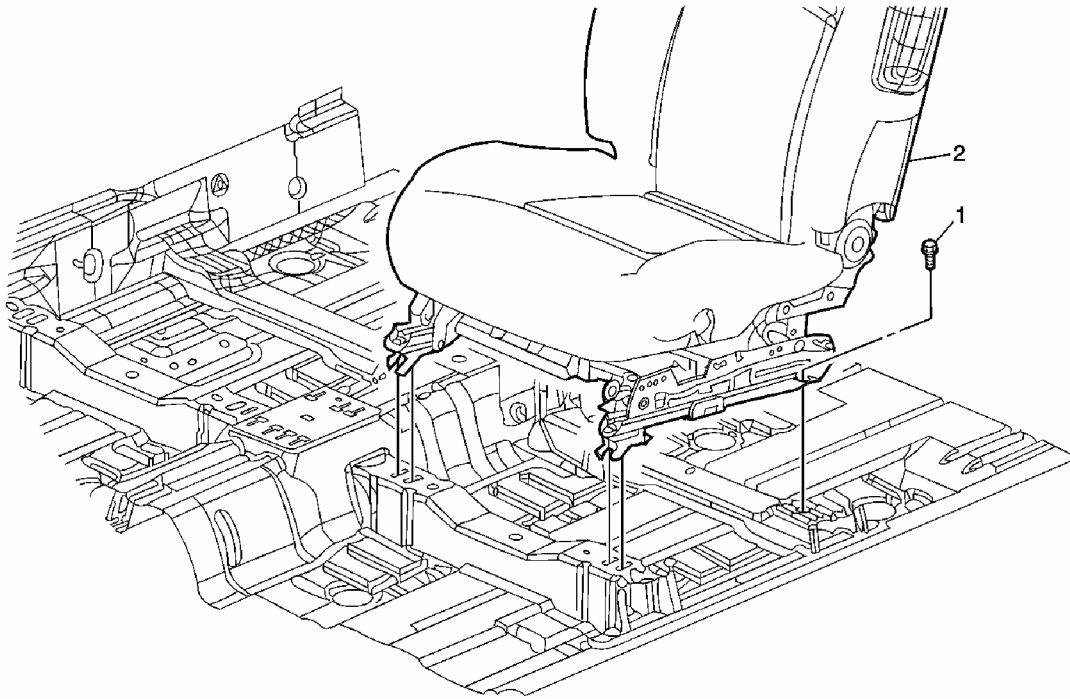
FRONT BUCKET SEAT REPLACEMENT (MONTE CARLO)

Fig. 23: Replacing Front Bucket Seat
Courtesy of GENERAL MOTORS CORP.

Seat Replacement - Front Bucket (Monte Carlo)

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
Preliminary Procedure	
1. Disable the SIR system. Refer to SIR Disabling and Enabling Zone 7 and SIR Disabling and Enabling Zone 9 (Monte Carlo) or SIR Disabling and Enabling Zone 9 (Impala) .	
2. Disconnect the seat belt from the seat. Refer to Seat Belt Retractor Pretensioner Replacement - Front .	

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1	Bolt, Seat Adjuster (Qty: 2) Tip: Adjust the seat forward or rearward to access the bolts. Tighten: 45 N.m (33 lb ft)
2	Seat Assembly Tip: Disconnect the electrical connectors.

CENTER SEAT REPLACEMENT (IMPALA)

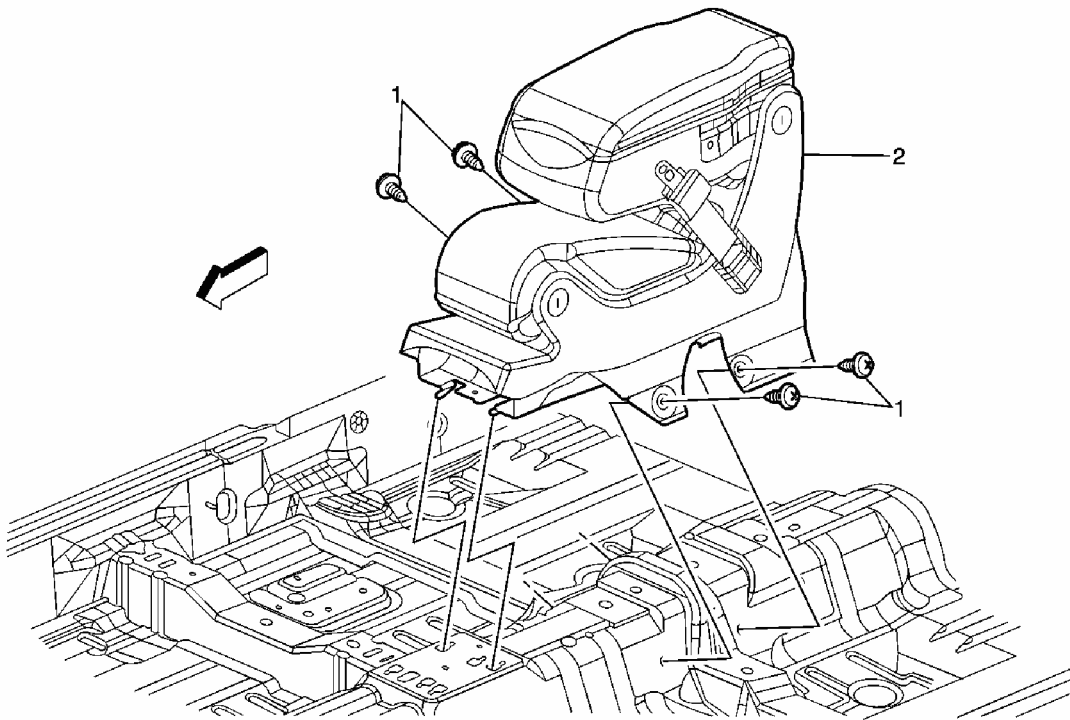


Fig. 24: Replacing Center Seat
Courtesy of GENERAL MOTORS CORP.

Seat Replacement - Center (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seats. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u> .	
1	Bolt, Front Center Seat Assembly (Qty: 4)

	Tighten: 9 N.m (80 lb in)
	Seat Assembly, Front Center
2	Tip: 1. Slide the center seat assembly forward and lift up to disengage the retaining hooks at the front of the seat. 2. Disconnect the electrical connectors.

FRONT SEAT CUSHION FRAME REPLACEMENT (IMPALA)

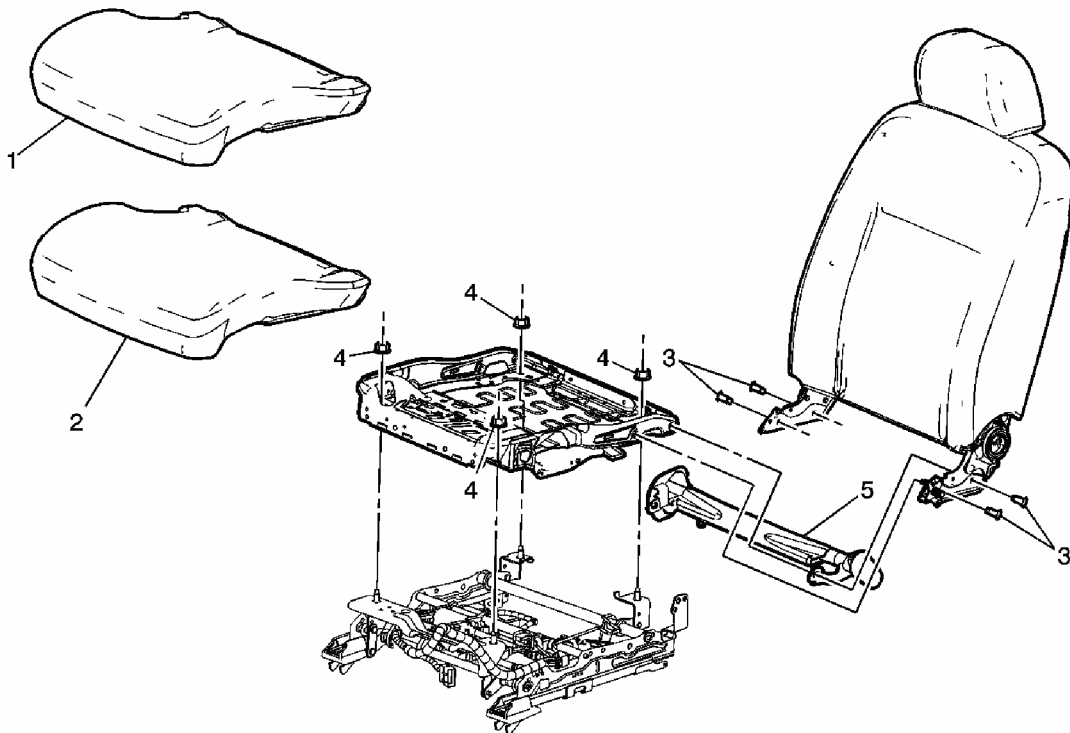


Fig. 25: Replacing Front Seat Cushion Frame
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Frame Replacement - Front (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure	

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1. Remove the front seat. Refer to **Seat Replacement - Front Bucket (Impala)** or **Seat Replacement - Front Bucket (Monte Carlo)**.
2. Remove the lumbar actuator knob. Refer to **Lumbar Support Knob Replacement (Impala)** or **Lumbar Support Knob Replacement (Monte Carlo)**.
3. Remove the recliner handle. Refer to **Seat Back Recliner Handle Replacement - Front (Impala)** or **Seat Back Recliner Handle Replacement - Front (Monte Carlo)**.
4. Remove the power seat switch knob. Refer to **Knob Replacement - Power Seat Switch - Seat Cushion (Impala)** or **Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo)**.
5. Remove the seat cushion outer trim panel. Refer to **Seat Cushion Outer Trim Panel Replacement (Impala)** or **Seat Cushion Outer Trim Panel Replacement (Monte Carlo)**.

1	Cover, Seat Cushion Refer to <u>Seat Cushion Cover and Pad Replacement - Front (Impala)</u> or <u>Seat Cushion Cover and Pad Replacement - Front (Monte Carlo)</u> .
2	Pad, Seat Cushion Refer to <u>Seat Cushion Cover and Pad Replacement - Front (Impala)</u> or <u>Seat Cushion Cover and Pad Replacement - Front (Monte Carlo)</u> .
3	Bolt, Front Seat Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
4	Nut, Front Seat Cushion Frame (Qty: 4) Tighten: 9 N.m (80 lb in)
5	Reinforcement, Seat Cushion Frame Rear

Frame, Front Seat Cushion
Tip:

1. Remove the heated seat module, if equipped. Refer to **Heated Seat Control Module Replacement - Front (Impala)** or **Heated Seat Control Module Replacement - Front (Monte Carlo)**.
2. Remove the inflatable restraint passenger presence system if working on the passenger seat. Refer to **Inflatable Restraint Passenger Presence System Replacement - Front (Impala)** or **Inflatable Restraint Passenger Presence System Replacement - Front (Monte Carlo)**.
3. Re-zero the inflatable restraint passenger presence system whenever the seat cushion or any component of the passenger presence system is removed. Refer to **Passenger Presence System Programming**

and Setup .

FRONT SEAT CUSHION FRAME REPLACEMENT (MONTE CARLO)

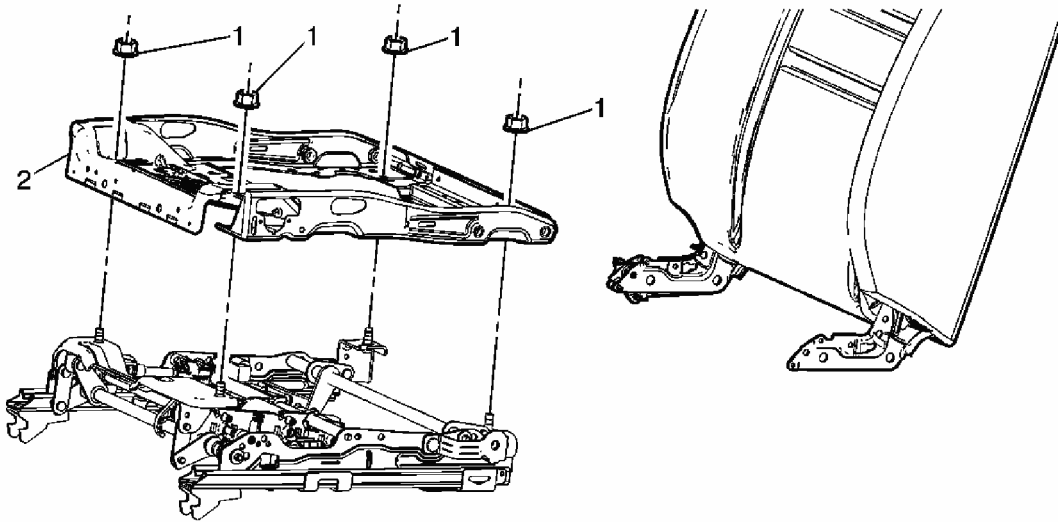


Fig. 26: Replacing Front Seat Cushion Frame
 Courtesy of GENERAL MOTORS CORP.

Seat Cushion Frame Replacement - Front (Monte Carlo)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure 1. Disable the SIR system if working on the driver or passenger seat. Refer to <u>SIR Disabling and Enabling Zone 7</u> and <u>SIR Disabling and Enabling Zone 9 (Monte Carlo)</u> or <u>SIR Disabling and Enabling Zone 9 (Impala)</u> in SIR. 2. Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u>. 3. Remove the lumbar actuator knob. Refer to <u>Lumbar Support Knob Replacement (Impala)</u> or <u>Lumbar Support Knob Replacement (Monte Carlo)</u>. 4. Remove the recliner handle. Refer to <u>Seat Back Recliner Handle Replacement - Front (Impala)</u> or <u>Seat Back Recliner Handle Replacement - Front (Monte Carlo)</u>.	

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5. Remove the power seat switch knob. Refer to **Knob Replacement - Power Seat Switch - Seat Cushion (Impala)** or **Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo)**.
6. Remove the seat cushion outer trim panel. Refer to **Seat Cushion Outer Trim Panel Replacement (Impala)** or **Seat Cushion Outer Trim Panel Replacement (Monte Carlo)**.
7. Remove the front seat cushion cover and pad. Refer to **Seat Cushion Cover and Pad Replacement - Front (Impala)** or **Seat Cushion Cover and Pad Replacement - Front (Monte Carlo)**.

1	Nut, Front Seat Cushion Frame (Qty: 4) Tighten: 9 N.m (80 lb in)
2	Frame, Front Seat Cushion Tip: 1. Remove the heated seat module, if equipped. Refer to <u>Heated Seat Control Module Replacement - Front (Impala)</u> or <u>Heated Seat Control Module Replacement - Front (Monte Carlo)</u>. 2. Remove the inflatable restraint passenger presence system if working on the passenger seat. Refer to <u>Inflatable Restraint Passenger Presence System Replacement - Front (Impala)</u> or <u>Inflatable Restraint Passenger Presence System Replacement - Front (Monte Carlo)</u>. 3. Re-zero the inflatable restraint passenger presence system whenever the seat cushion or any component of the passenger presence system is removed. Refer to <u>Passenger Presence System Programming and Setup</u>.

SEAT CUSHION OUTER TRIM PANEL REPLACEMENT (IMPALA)

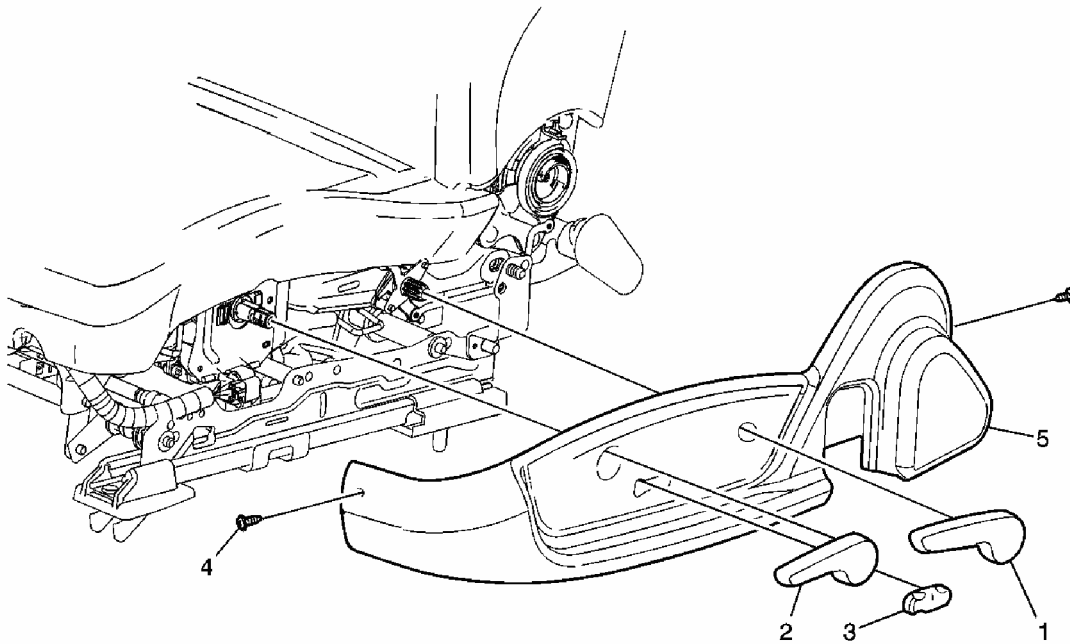


Fig. 27: Replacing Seat Cushion Outer Trim Panel
 Courtesy of GENERAL MOTORS CORP.

Seat Cushion Outer Trim Panel Replacement (Impala)

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
2	Handle, Lumbar Actuator Tip: Pull outward to remove.
3	Knob, Power Seat Switch Tip: Pull outward to remove.
4	Screw, Seat Cushion Outer Trim Panel (Qty: 2) Tighten: 2 N.m (18 lb in)
5	Panel, Seat Cushion Outer Trim

SEAT CUSHION OUTER TRIM PANEL REPLACEMENT (MONTE CARLO)

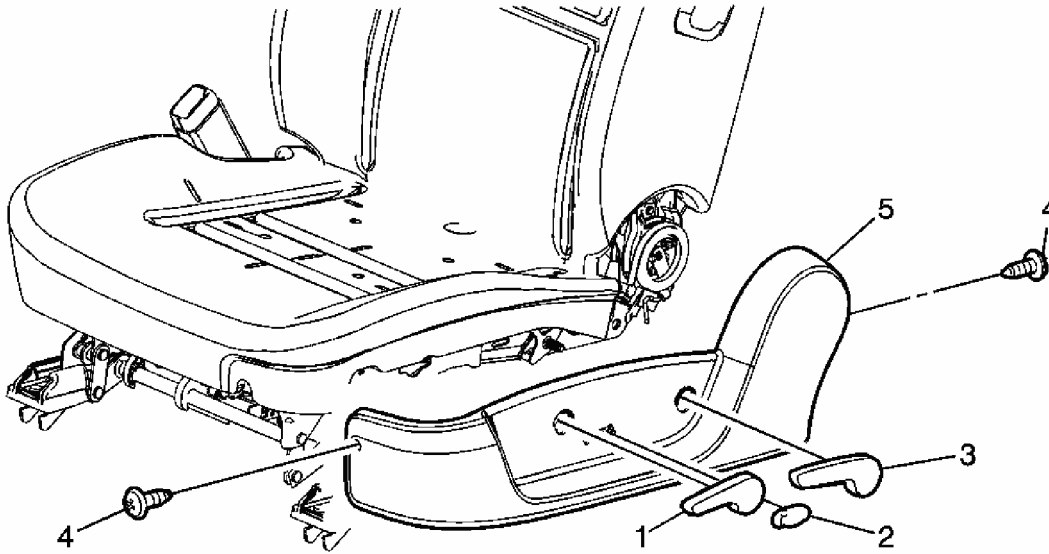


Fig. 28: Replacing Seat Cushion Outer Trim Panel
 Courtesy of GENERAL MOTORS CORP.

Seat Cushion Outer Trim Panel Replacement (Monte Carlo)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
1	Handle, Lumbar Actuator Tip: Pull outward to remove.
2	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
3	Knob, Power Seat Switch Tip: Pull outward to remove.
4	Screw, Seat Cushion Outer Trim Panel (Qty: 2) Tighten: 2 N.m (18 lb in)
5	Panel, Seat Cushion Outer Trim Tip: 1. Disconnect the power seat switch electrical connector. 2. Remove the power seat switch from the trim panel. Refer to <u>Seat Switch Replacement - Power (Impala)</u> or <u>Seat Switch</u>

Replacement - Power (Monte Carlo).

FRONT SEAT CUSHION COVER AND PAD REPLACEMENT (IMPALA)

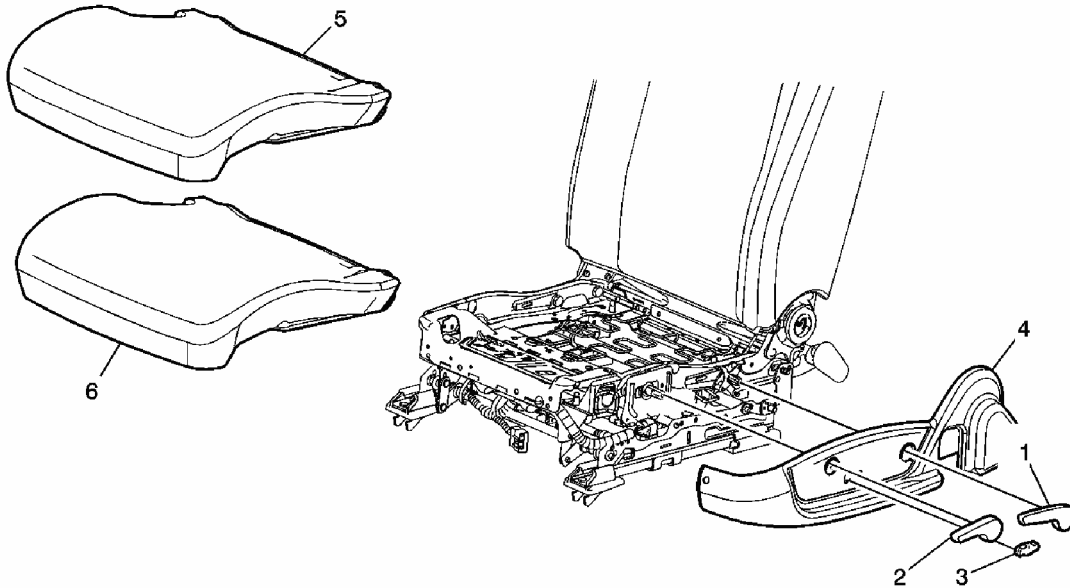


Fig. 29: Replacing Front Seat Cushion Cover And Pad
 Courtesy of GENERAL MOTORS CORP.

Seat Cushion Cover and Pad Replacement - Front (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seats. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo) .	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
2	Handle, Lumbar Actuator Tip: Pull outward to remove.
3	Knob, Power Seat Switch Tip: Pull outward to remove.
4	Panel, Seat Cushion Outer Trim Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
	Cover, Seat Cushion Tip:

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5	1. Release the j-channel from the seat cushion frame. 2. Disconnect the seat cushion heater electrical connector, if equipped. 3. Remove the seat cushion cover and pad as an assembly from the frame.
6	Pad, Seat Cushion Tip: Remove the seat cushion pad from the cover by pulling away to release to hook and loop fasteners.

FRONT SEAT CUSHION COVER AND PAD REPLACEMENT (MONTE CARLO)

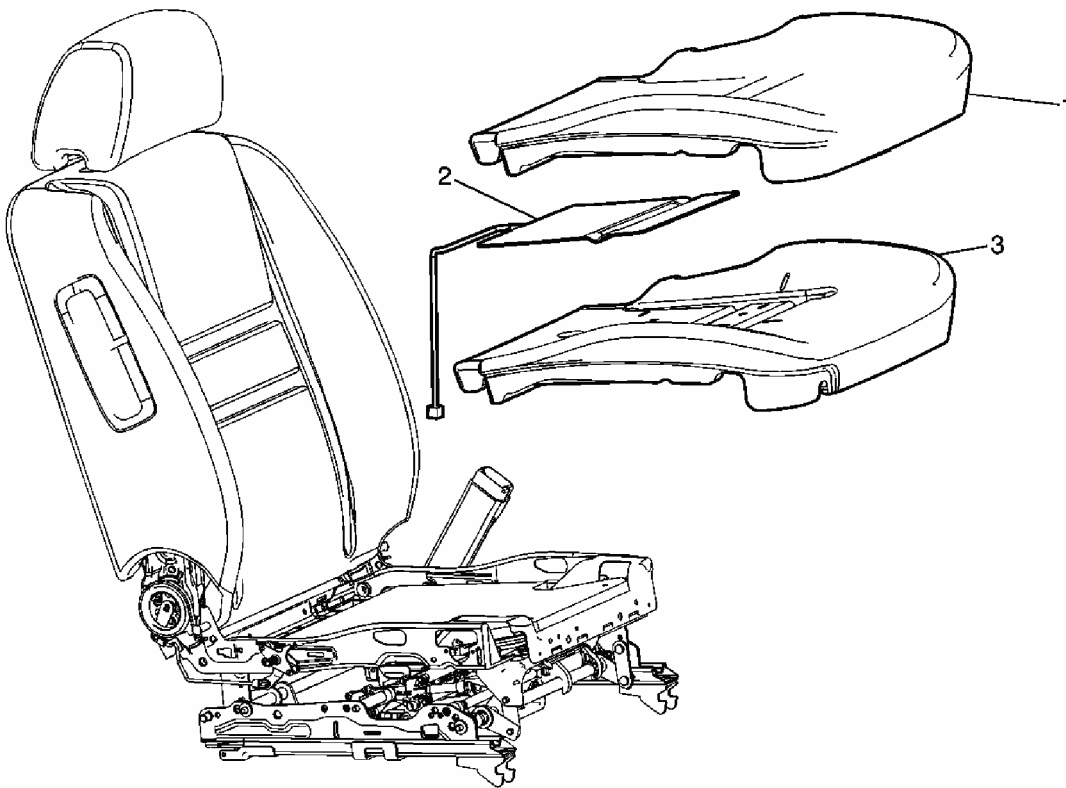


Fig. 30: Replacing Front Seat Cushion Cover And Pad
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Cover and Pad Replacement - Front (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure	
1. Disable the SIR system if working on the passenger seat. Refer to <u>SIR Disabling and Enabling Zone 7</u> and <u>SIR Disabling and Enabling Zone 9 (Monte Carlo)</u>	

or **SIR Disabling and Enabling Zone 9 (Impala)** .

2. Remove the front seat. Refer to **Seat Replacement - Front Bucket (Impala)** or **Seat Replacement - Front Bucket (Monte Carlo)**.
3. Remove the recliner handle. Refer to **Seat Back Recliner Handle Replacement - Front (Impala)** or **Seat Back Recliner Handle Replacement - Front (Monte Carlo)**.
4. Remove the lumbar handle. Refer to **Lumbar Support Knob Replacement (Impala)** or **Lumbar Support Knob Replacement (Monte Carlo)**.
5. Remove the power seat switch knob. Refer to **Knob Replacement - Power Seat Switch - Seat Cushion (Impala)** or **Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo)**.
6. Remove the seat cushion outer trim panel. Refer to **Seat Cushion Outer Trim Panel Replacement (Impala)** or **Seat Cushion Outer Trim Panel Replacement (Monte Carlo)**.

1	Cover, Seat Cushion Tip: 1. Release the j-channel from the seat cushion frame. 2. Disconnect the seat cushion heater electrical connector, if equipped. 3. Remove the seat cushion cover and pad as an assembly from the frame. 4. Remove the seat cushion pad from the cover by pulling away to release to hook and loop fasteners.
2	Heater Assembly, Seat Cushion Tip: 1. Disconnect the electrical connector. 2. The seat cushion heater is attached to the pad with adhesive, peel away from the pad to remove.
3	Pad, Seat Cushion

SEAT BACK COVER AND PAD REPLACEMENT (IMPALA)

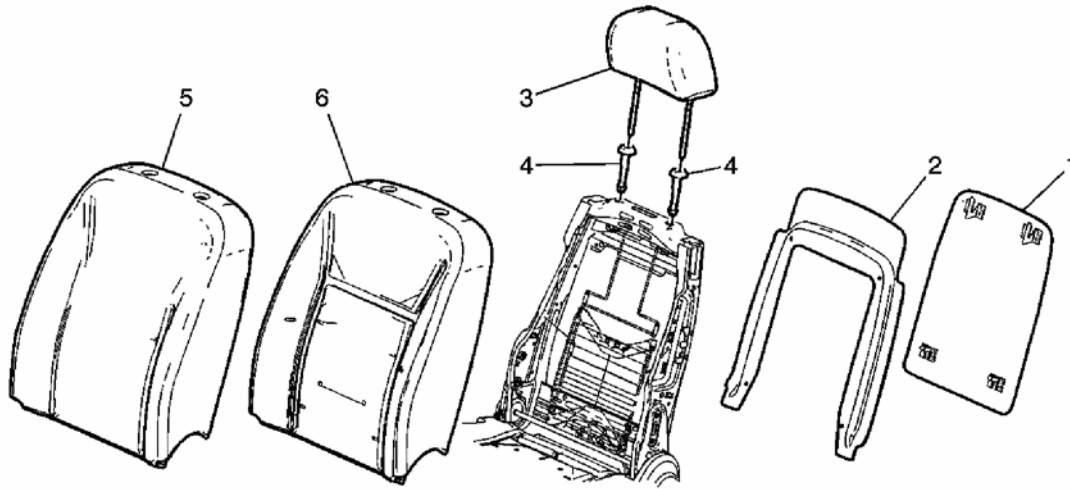


Fig. 31: Replacing Seat Back Cover And Pad
Courtesy of GENERAL MOTORS CORP.

Seat Back Cover and Pad Replacement (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u> .	
1	Panel, Seat Back Cushion Finish Refer to <u>Seat Back Panel Replacement - Front (Impala)</u> or <u>Seat Back Panel Replacement - Front (Monte Carlo)</u> .
2	Panel, Seat Back Cushion Rear Finish Refer to <u>Seat Back Panel Replacement - Front (Impala)</u> or <u>Seat Back Panel Replacement - Front (Monte Carlo)</u> .
3	Restraint, Front Seat Head Refer to <u>Head Restraint Replacement - Front Seat (Impala)</u> or <u>Head Restraint Replacement - Front Seat (Monte Carlo)</u> .
4	Guides, Front Seat Head Restraint Refer to <u>Head Restraint Guide Replacement - Front Seat (Impala)</u> or <u>Head Restraint Guide Replacement - Front Seat (Monte Carlo)</u> .
5	Cover, Seat Back Cushion Tip: Disconnect the j-channel from the seat back frame and remove the pad and cover as an assembly.
6	Pad, Seat Back Cushion Tip: The pad is secured to the cover with hook and loop fasteners.

SEAT BACK COVER AND PAD REPLACEMENT (MONTE CARLO)

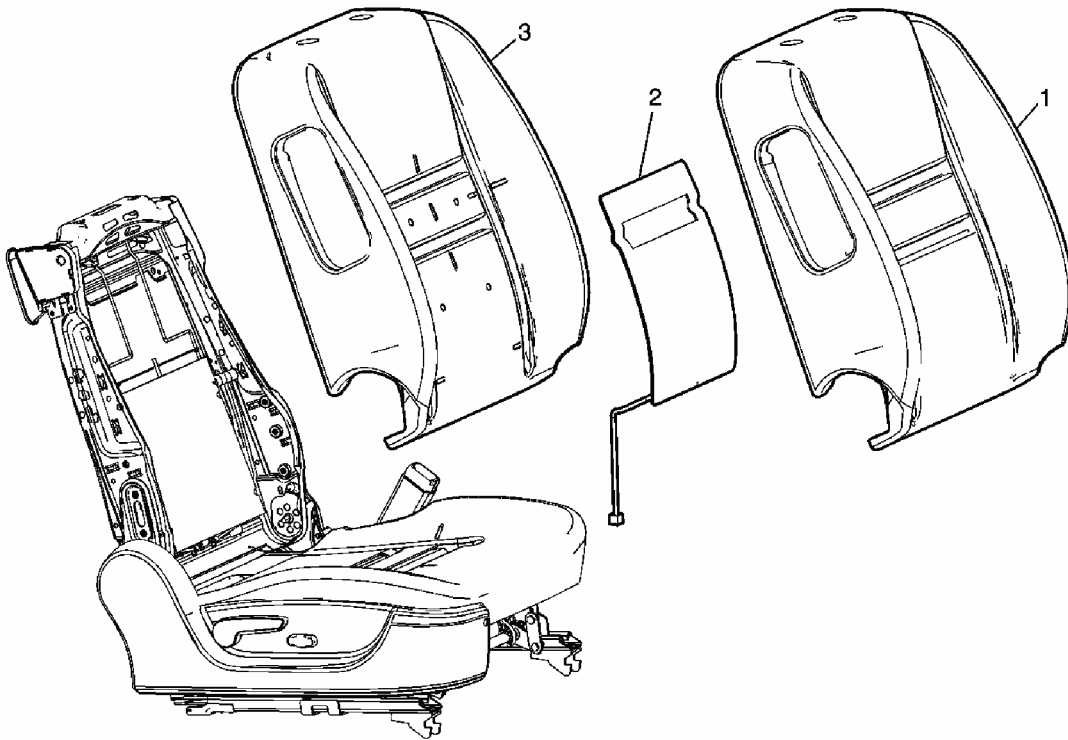


Fig. 32: Replacing Seat Back Cover And Pad
 Courtesy of GENERAL MOTORS CORP.

Seat Back Cover and Pad Replacement (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure	
1.	Disable the SIR system if working on the passenger seat. Refer to <u>SIR Disabling and Enabling Zone 7</u> and <u>SIR Disabling and Enabling Zone 9 (Monte Carlo)</u> or <u>SIR Disabling and Enabling Zone 9 (Impala)</u> .
2.	Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u> .
3.	Remove the front seat back cushion finish panel. Refer to <u>Seat Back Panel Replacement - Front (Impala)</u> or <u>Seat Back Panel Replacement - Front (Monte Carlo)</u> .
4.	Remove the front seat head restraint. Refer to <u>Head Restraint Replacement - Front Seat (Impala)</u> or <u>Head Restraint Replacement - Front Seat (Monte Carlo)</u> .
5.	Remove the front seat head restraint guides. Refer to <u>Head Restraint Replacement - Front Seat (Impala)</u> or <u>Head Restraint Replacement - Front</u>

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Seat (Monte Carlo).

1	Cover, Seat Back Cushion Tip: 1. Disconnect the j-channel from the seat back frame and remove the pad and cover as an assembly. 2. The pad is secured to the cover with hook and loop fasteners.
2	Element, Front Seat Back Heater Tip: If equipped, disconnect the electrical connector and peel the heater element off the pad.
3	Pad, Seat Back Cushion

FRONT SEAT BACK FRAME REPLACEMENT (IMPALA)

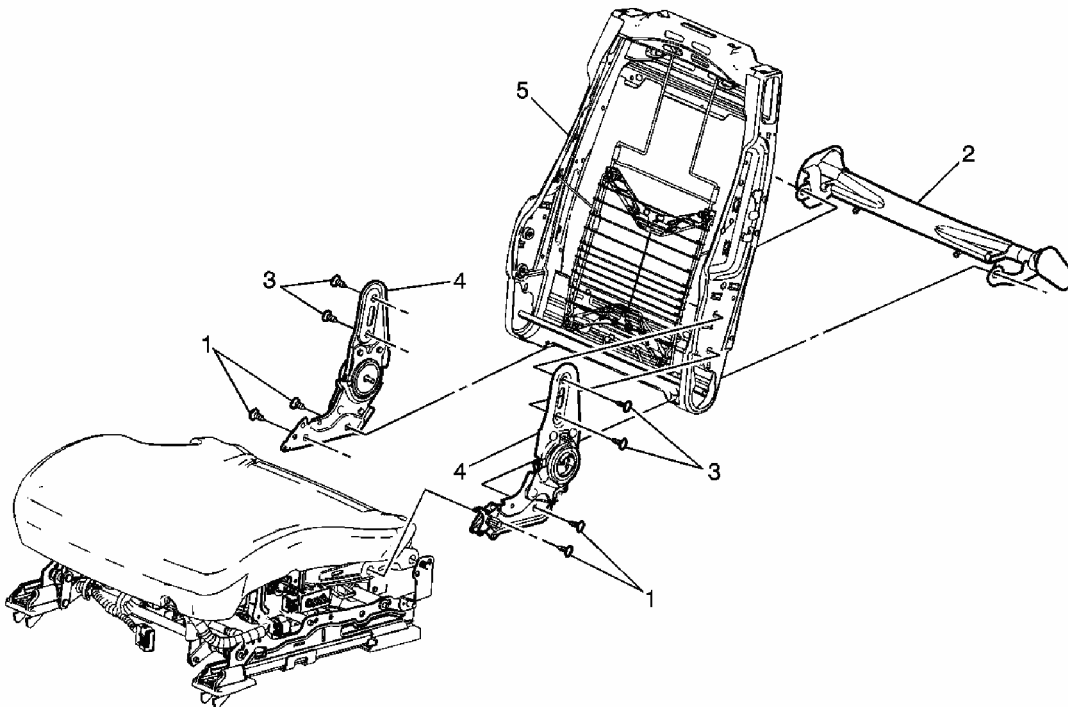


Fig. 33: Replacing Front Seat Back Frame
Courtesy of GENERAL MOTORS CORP.

Seat Back Frame Replacement - Front (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	

Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.

Preliminary Procedure

1. Remove the front seat. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo).
2. Remove the lumbar actuator knob. Refer to Lumbar Support Knob Replacement (Impala) or Lumbar Support Knob Replacement (Monte Carlo).
3. Remove the recliner handle. Refer to Seat Back Recliner Handle Replacement - Front (Impala) or Seat Back Recliner Handle Replacement - Front (Monte Carlo).
4. Remove the power seat switch knob. Refer to Knob Replacement - Power Seat Switch - Seat Cushion (Impala) or Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo).
5. Remove the seat cushion outer trim panel. Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo).
6. Remove the front seat back cushion cover and pad. Refer to Seat Back Cover and Pad Replacement (Impala) or Seat Back Cover and Pad Replacement (Monte Carlo).
7. Remove the lumbar assembly. Refer to Lumbar Replacement - Front Seat (Impala) or Lumbar Replacement - Front Seat (Monte Carlo).

1	Bolt, Front Seat Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
2	Reinforcement, Seat Cushion Frame Rear
3	Bolt, Front Seat Back Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
4	Recliner Assembly, Seat
5	Frame Assembly, Seat Back

FRONT SEAT BACK FRAME REPLACEMENT (MONTE CARLO)

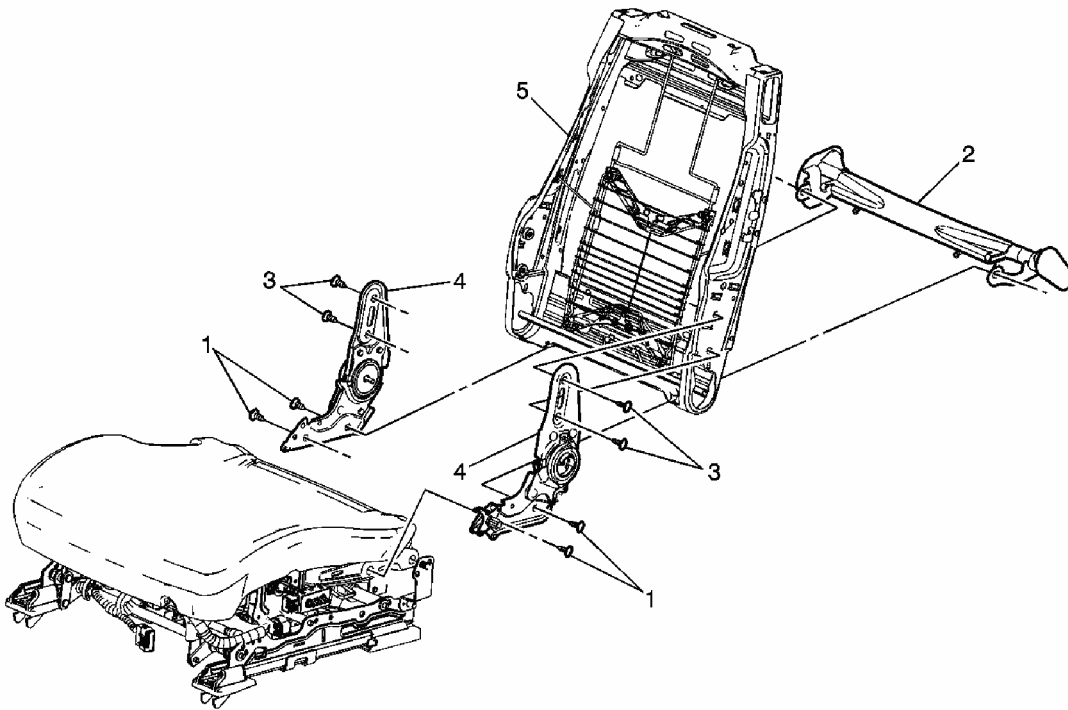


Fig. 34: Replacing Front Seat Back Frame
Courtesy of GENERAL MOTORS CORP.

Seat Back Frame Replacement - Front (Monte Carlo)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure 1. Disable the SIR system if working on the passenger seat. Refer to SIR Disabling and Enabling Zone 7 and SIR Disabling and Enabling Zone 9 (Monte Carlo) or SIR Disabling and Enabling Zone 9 (Impala) . 2. Remove the front seat. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo). 3. Remove the lumbar actuator knob. Refer to Lumbar Support Knob Replacement (Impala) or Lumbar Support Knob Replacement (Monte Carlo). 4. Remove the recliner handle. Refer to Seat Back Recliner Handle Replacement - Front (Impala) or Seat Back Recliner Handle Replacement - Front (Monte Carlo).	

Carlo).

5. Remove the power seat switch knob. Refer to **Knob Replacement - Power Seat Switch - Seat Cushion (Impala)** or **Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo)**.
6. Remove the seat cushion outer trim panel. Refer to **Seat Cushion Outer Trim Panel Replacement (Impala)** or **Seat Cushion Outer Trim Panel Replacement (Monte Carlo)**.
7. Remove the front seat back cushion cover and pad. Refer to **Seat Back Cover and Pad Replacement (Impala)** or **Seat Back Cover and Pad Replacement (Monte Carlo)**.
8. Remove the side impact air bag. Refer to **Inflatable Restraint Side Impact Module Replacement - Front (Monte Carlo)** .
9. Remove the lumbar assembly. Refer to **Lumbar Replacement - Front Seat (Impala)** or **Lumbar Replacement - Front Seat (Monte Carlo)**.

1	Bolt, Front Seat Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
2	Reinforcement, Seat Cushion Frame Rear
3	Bolt, Front Seat Back Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
4	Recliner Assembly, Seat
5	Frame Assembly, Seat Back

FRONT SEAT BACK RECLINER REPLACEMENT (IMPALA)

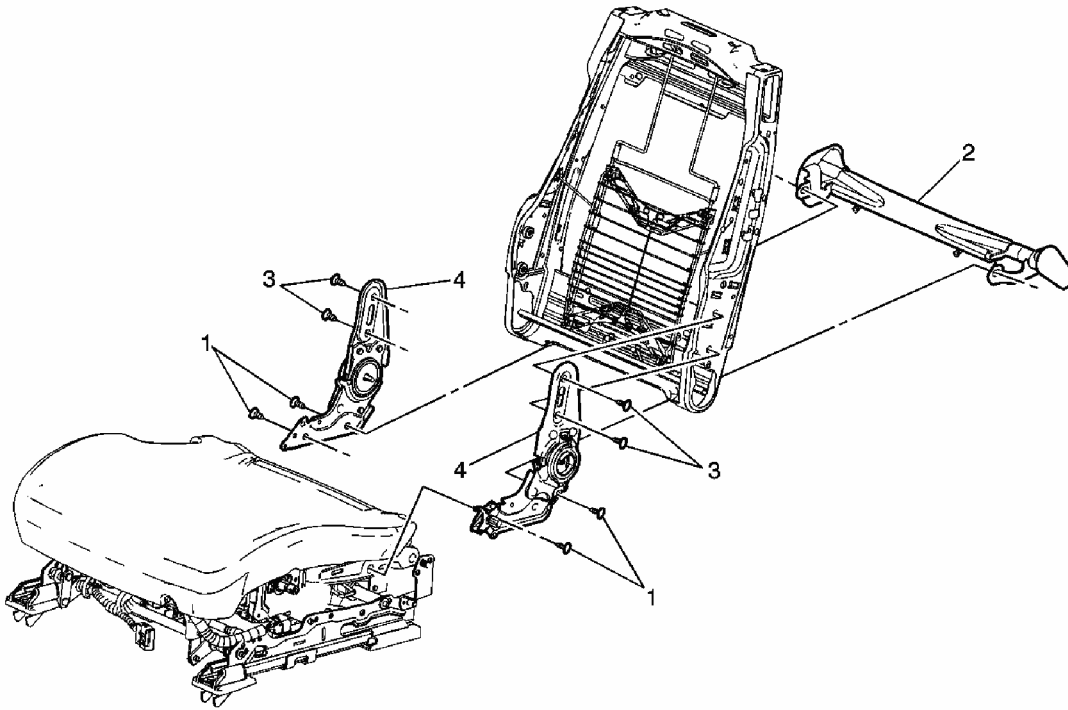


Fig. 35: Replacing Seat Back Recliner
 Courtesy of GENERAL MOTORS CORP.

Seat Back Recliner Replacement - Front (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure 1. Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u>. 2. Remove the lumbar actuator knob. Refer to <u>Lumbar Support Knob Replacement (Impala)</u> or <u>Lumbar Support Knob Replacement (Monte Carlo)</u>. 3. Remove the recliner handle. Refer to <u>Seat Back Recliner Handle Replacement - Front (Impala)</u> or <u>Seat Back Recliner Handle Replacement - Front (Monte Carlo)</u>. 4. Remove the power seat switch knob. Refer to <u>Knob Replacement - Power Seat Switch - Seat Cushion (Impala)</u> or <u>Knob Replacement - Power Seat Switch -</u>	

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Seat Cushion (Monte Carlo).

5. Remove the seat cushion outer trim panel. Refer to **Seat Cushion Outer Trim Panel Replacement (Impala)** or **Seat Cushion Outer Trim Panel Replacement (Monte Carlo)**.
6. Remove the front seat back cushion cover and pad. Refer to **Seat Back Cover and Pad Replacement (Impala)** or **Seat Back Cover and Pad Replacement (Monte Carlo)**.
7. Remove the lumbar assembly. Refer to **Lumbar Replacement - Front Seat (Impala)** or **Lumbar Replacement - Front Seat (Monte Carlo)**.

1	Bolt, Front Seat Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
2	Reinforcement, Seat Cushion Frame Rear
3	Bolt, Front Seat Back Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
4	Recliner Assembly, Seat Inner
5	Recliner Assembly, Seat Outer

FRONT SEAT BACK RECLINER REPLACEMENT (MONTE CARLO)

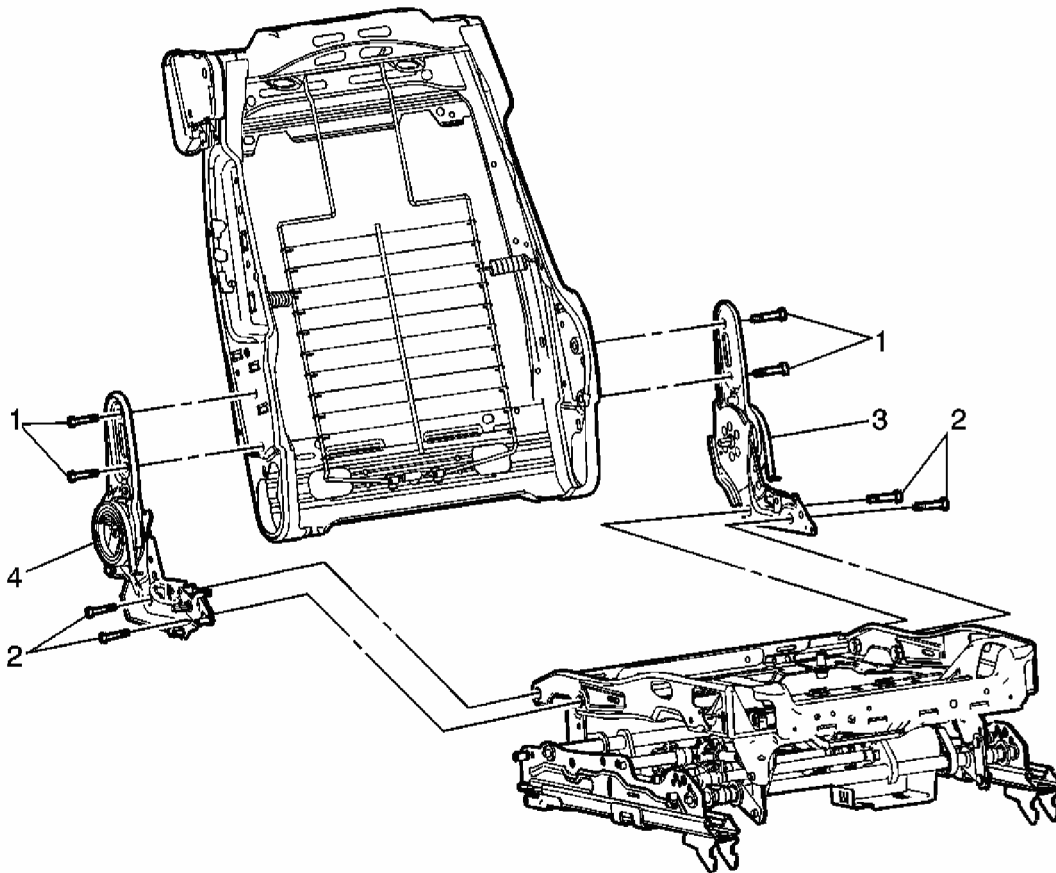


Fig. 36: Replacing Front Seat Back Recliner
 Courtesy of GENERAL MOTORS CORP.

Seat Back Recliner Replacement - Front (Monte Carlo)

Callout	Component Name
NOTE: Refer to Fastener Notice . Fastener Tightening Specifications: Refer to Fastener Tightening Specifications. Preliminary Procedure 1. Disable the SIR system if working on the passenger seat. Refer to SIR Disabling and Enabling Zone 7 and SIR Disabling and Enabling Zone 9 (Monte Carlo) or SIR Disabling and Enabling Zone 9 (Impala) . 2. Remove the front seat. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo). 3. Remove the lumbar actuator knob. Refer to Lumbar Support Knob	

Replacement (Impala) or Lumbar Support Knob Replacement (Monte Carlo).

4. Remove the recliner handle. Refer to **Seat Back Recliner Handle Replacement - Front (Impala) or Seat Back Recliner Handle Replacement - Front (Monte Carlo).**
5. Remove the power seat switch knob. Refer to **Knob Replacement - Power Seat Switch - Seat Cushion (Impala) or Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo).**
6. Remove the seat cushion outer trim panel. Refer to **Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo).**
7. Remove the front seat back cushion cover and pad. Refer to **Seat Back Cover and Pad Replacement (Impala) or Seat Back Cover and Pad Replacement (Monte Carlo).**
8. Remove the lumbar assembly. Refer to **Lumbar Replacement - Front Seat (Impala) or Lumbar Replacement - Front Seat (Monte Carlo).**

1	Bolt, Front Seat Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
2	Bolt, Front Seat Back Cushion Frame (Qty: 4) Tighten: 45 N.m (33 lb ft)
3	Recliner Assembly, Seat Inner
4	Recliner Assembly, Seat Outer

FRONT SEAT POWER RECLINER MOTOR REPLACEMENT (IMPALA)

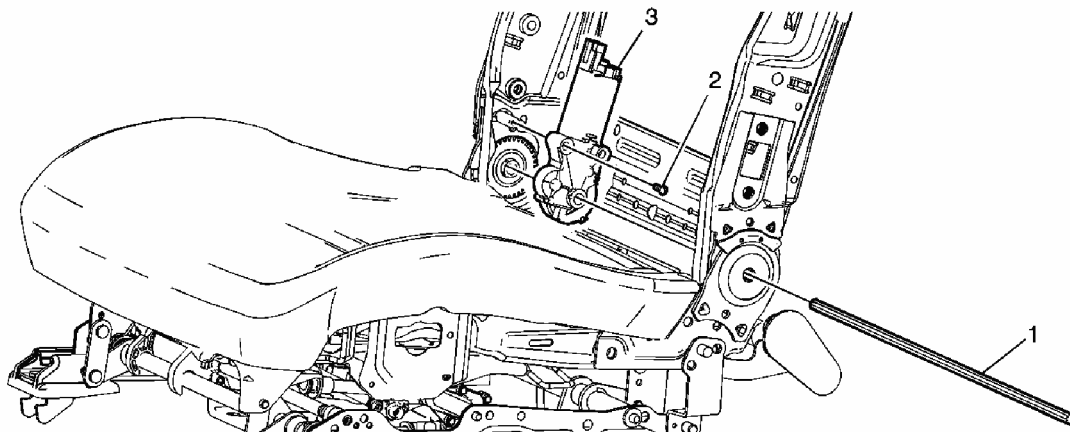


Fig. 37: Replacing Front Seat Power Recliner Motor
Courtesy of GENERAL MOTORS CORP.

Power Recliner Motor Replacement - Front Seat (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure 1. Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u>. 2. Remove the lumbar actuator knob. Refer to <u>Lumbar Support Knob Replacement (Impala)</u> or <u>Lumbar Support Knob Replacement (Monte Carlo)</u>. 3. Remove the recliner handle. Refer to <u>Seat Back Recliner Handle Replacement - Front (Impala)</u> or <u>Seat Back Recliner Handle Replacement - Front (Monte Carlo)</u>. 4. Remove the power seat switch knob. Refer to <u>Knob Replacement - Power Seat Switch - Seat Cushion (Impala)</u> or <u>Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo)</u>. 5. Remove the seat cushion outer trim panel. Refer to <u>Seat Cushion Outer Trim Panel Replacement (Impala)</u> or <u>Seat Cushion Outer Trim Panel Replacement (Monte Carlo)</u>. 6. Remove the front seat back cushion cover and pad. Refer to <u>Seat Back Cover and Pad Replacement (Impala)</u> or <u>Seat Back Cover and Pad Replacement (Monte Carlo)</u>.	
1	Bracket, Seat Recliner Tip: Remove the push on nuts from the ends for the rod and slide out to remove.
2	Bolt, Front Seat Back Cushion Frame Tighten: 9 N.m (80 lb in)
3	Motor, Front Seat Recliner Actuator

FRONT SEAT BACK RECLINER HANDLE REPLACEMENT - (IMPALA)

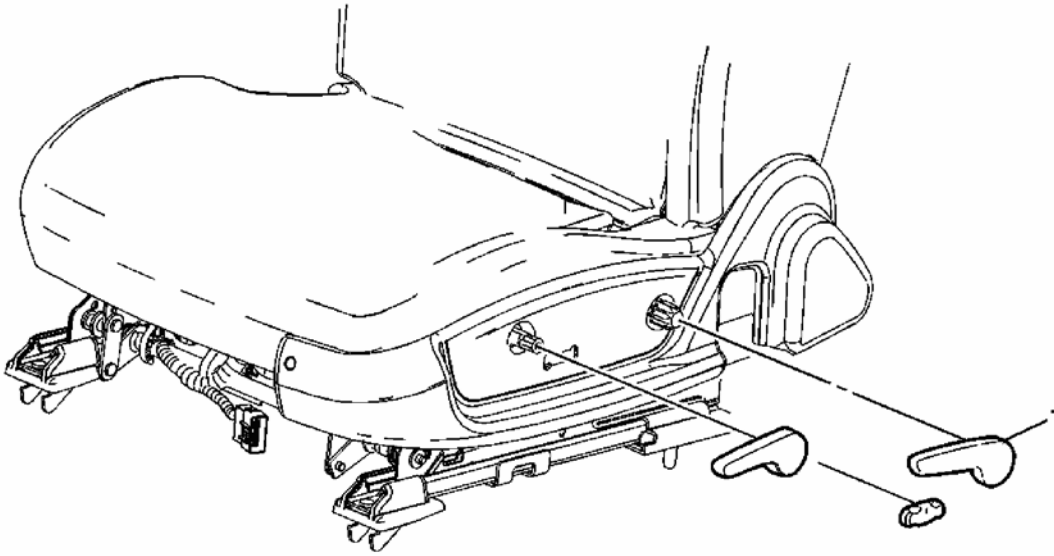


Fig. 38: Replacing Front Seat Back Recliner Handle
Courtesy of GENERAL MOTORS CORP.

Seat Back Recliner Handle Replacement - Front (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.

FRONT SEAT BACK RECLINER HANDLE REPLACEMENT (MONTE CARLO)

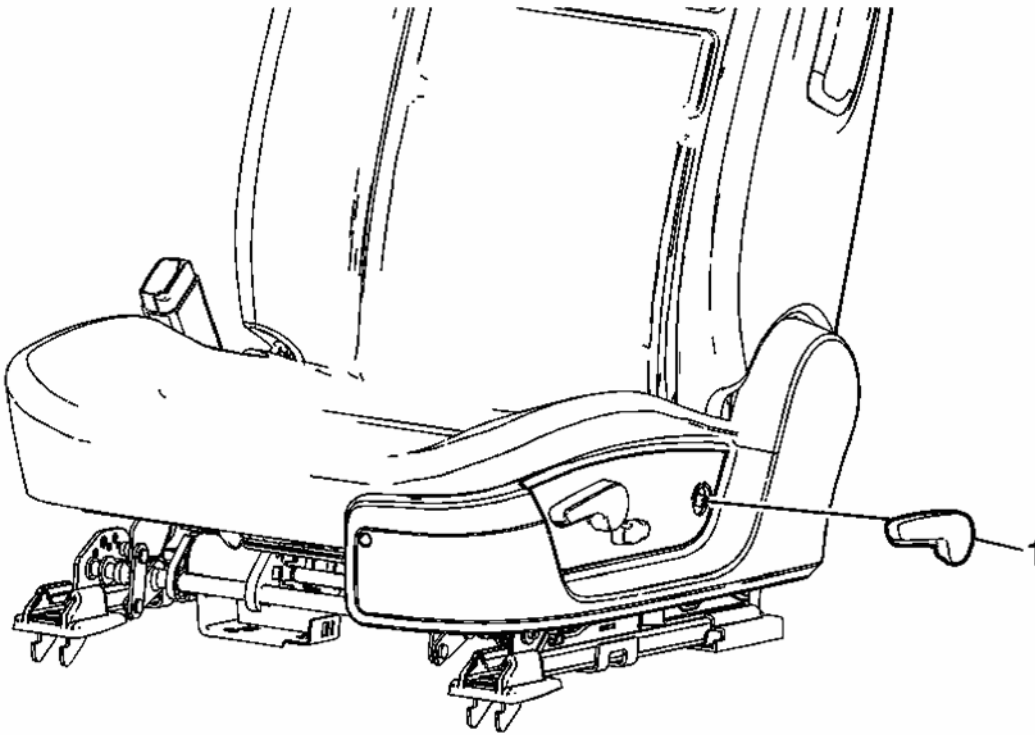


Fig. 39: Replacing Front Seat Back Recliner Handle
 Courtesy of GENERAL MOTORS CORP.

Seat Back Recliner Handle Replacement - Front (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>.	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.

FRONT SEAT BACK RELEASE KNOB AND BEZEL REPLACEMENT (MONTE CARLO)

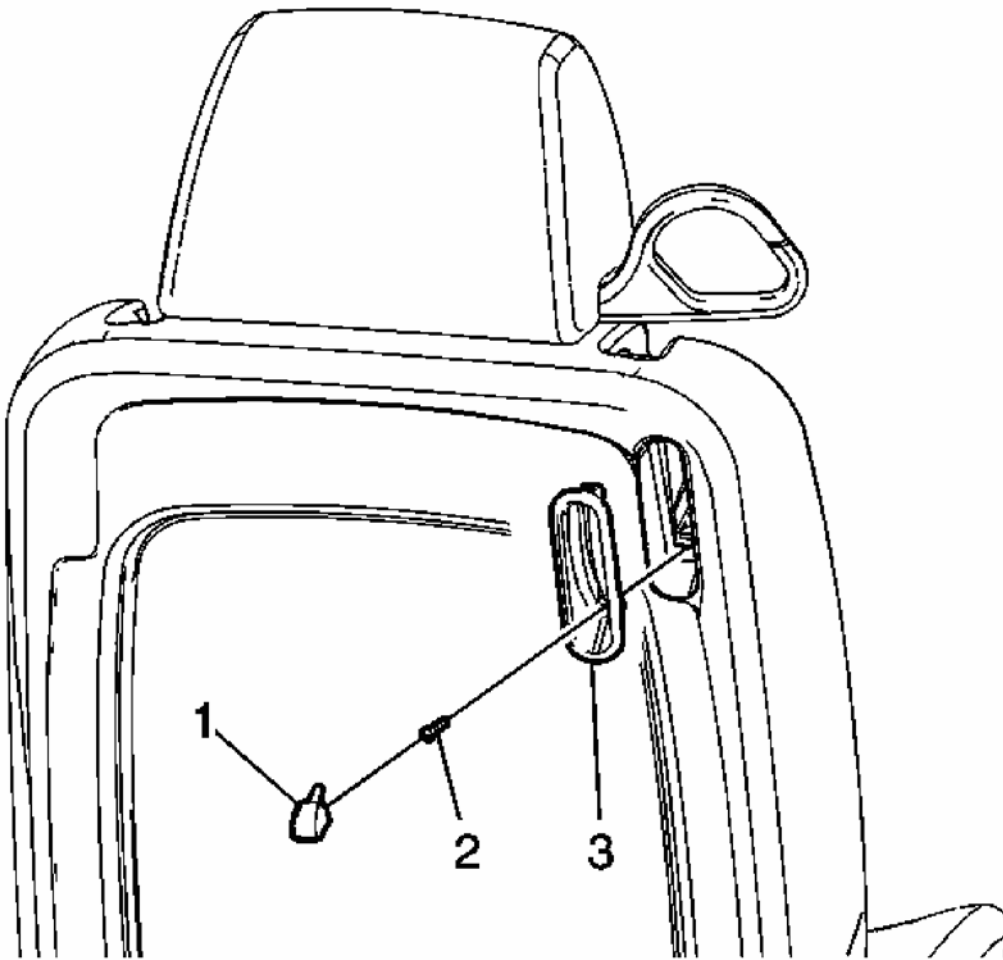


Fig. 40: Replacing Front Seat Back Release Knob And Bezel
Courtesy of GENERAL MOTORS CORP.

Seat Back Release Knob and Bezel Replace - Front (Monte Carlo)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
1	Knob, Front Seat Back Release Latch Knob
2	Screw, Front Seat Back Release Latch Cover
	Tighten: 3 N.m (25 lb in)

3 | Cover, Front Seat Back Release Latch

FRONT SEAT BACK PANEL REPLACEMENT (IMPALA)

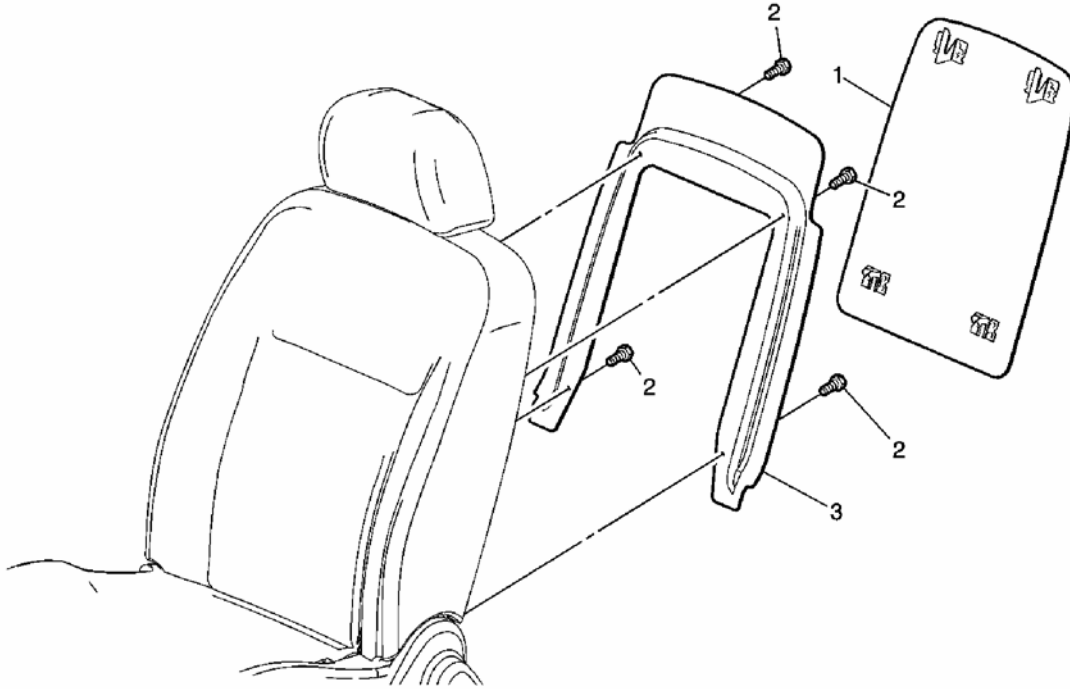


Fig. 41: Replacing Front Seat Back Panel
Courtesy of GENERAL MOTORS CORP.

Seat Back Panel Replacement - Front (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Panel, Seat Back Cushion Finish Tip: Push upward and pull back at the bottom edge of the seat back panel to release the lower edge and then pull down to remove.
2	Retainer, Seat Back Cushion Rear Finish (Qty: 4)
3	Panel, Seat Back Cushion Rear Finish

FRONT SEAT BACK PANEL REPLACEMENT (MONTE CARLO)

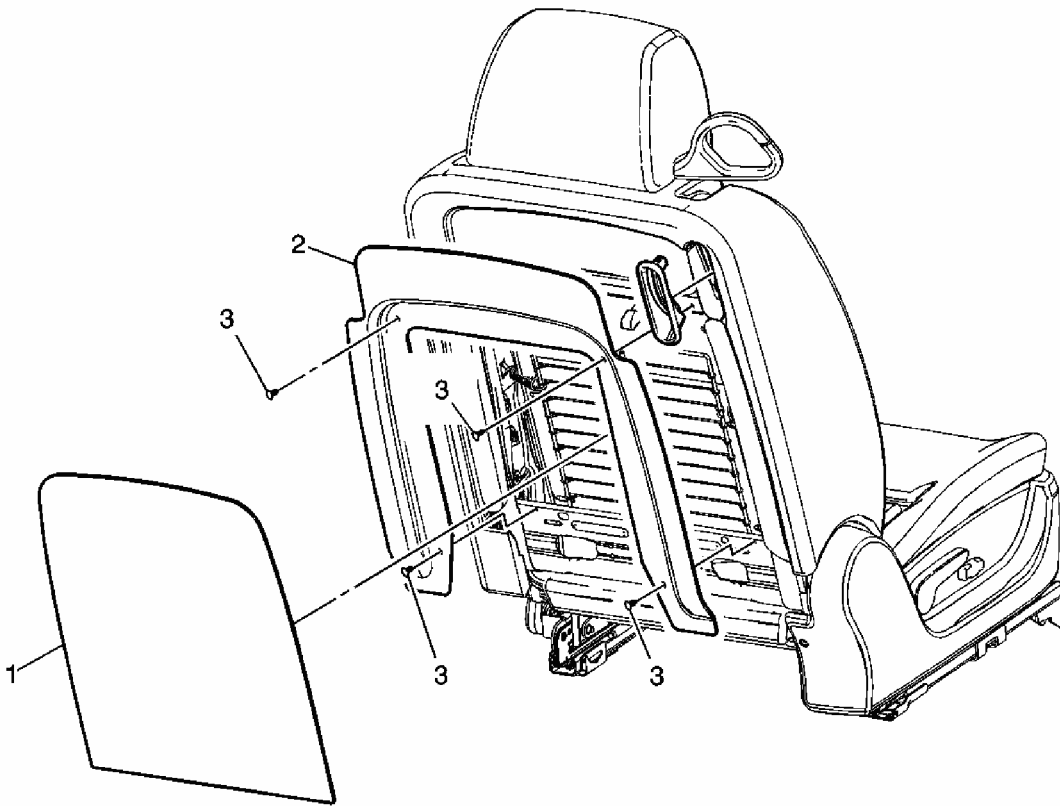


Fig. 42: Replacing Front Seat Back Panel
Courtesy of GENERAL MOTORS CORP.

Seat Back Panel Replacement - Front (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Panel, Seat Back Cushion Finish Tip: Push upward and pull back at the bottom edge of the seat back panel to release the lower edge and then pull down to remove.
2	Panel, Seat Back Cushion Rear Finish
3	Retainer, Seat Back Cushion Rear Finish (Qty: 4)

FRONT SEAT LUMBAR REPLACEMENT (IMPALA)

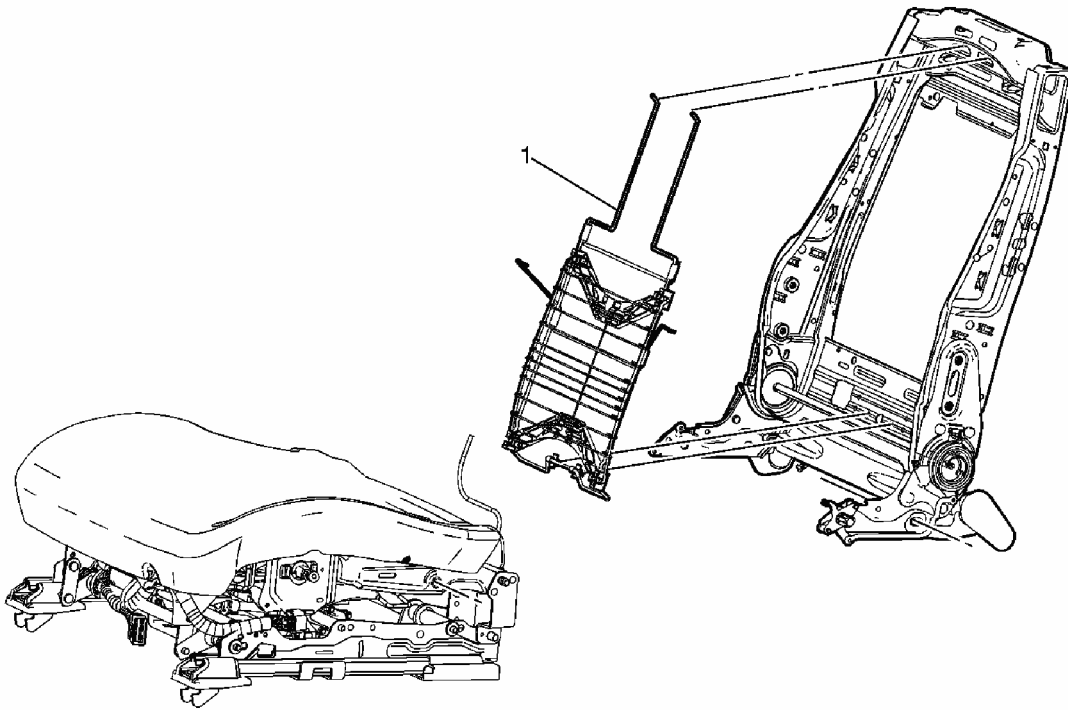


Fig. 43: Replacing Front Seat Lumbar
 Courtesy of GENERAL MOTORS CORP.

Lumbar Replacement - Front Seat (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seat back cushion cover and pad. Refer to <u>Seat Back Cover and Pad Replacement (Impala)</u> or <u>Seat Back Cover and Pad Replacement (Monte Carlo)</u> .	
1	Lumbar Assembly, Front Seat Back Tip: 1. Push the retainers at the bottom out of the seat back frame to release the bottom of the lumbar assembly. 2. Tilt and pull down and forward to remove the top portion of the lumbar assembly from the seat back frame. 3. Disconnect the lumbar cable.

FRONT SEAT LUMBAR REPLACEMENT (MONTE CARLO)

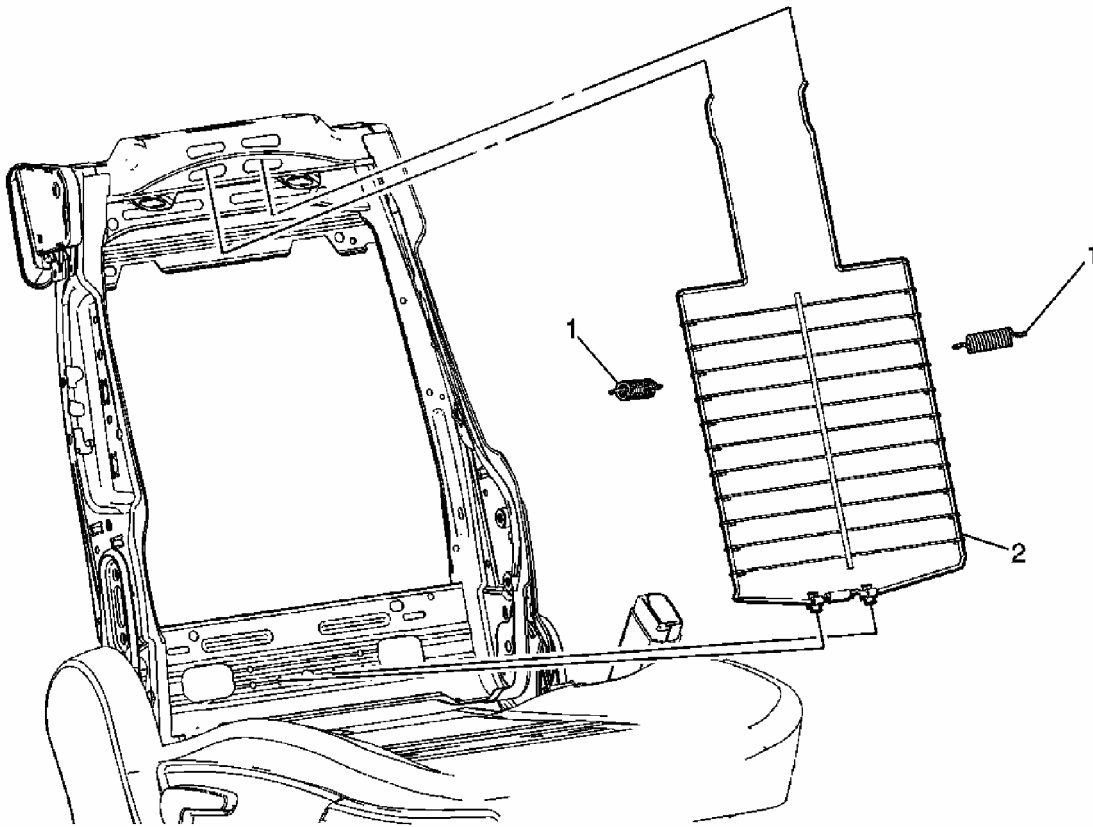


Fig. 44: Replacing Front Seat Lumbar
 Courtesy of GENERAL MOTORS CORP.

Lumbar Replacement - Front Seat (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seat back cushion cover and pad. Refer to <u>Seat Back Cover and Pad Replacement (Impala)</u> or <u>Seat Back Cover and Pad Replacement (Monte Carlo)</u> .	
1	Spring, Front Seat Lumbar (Qty: 2)
2	Lumbar Assembly, Front Seat Back Tip: 1. Push the retainers at the bottom out of the seat back frame to release the bottom of the lumbar assembly. 2. Tilt and pull down and forward to remove the top portion of the lumbar assembly from the seat back frame.

LUMBAR SUPPORT KNOB REPLACEMENT (IMPALA)

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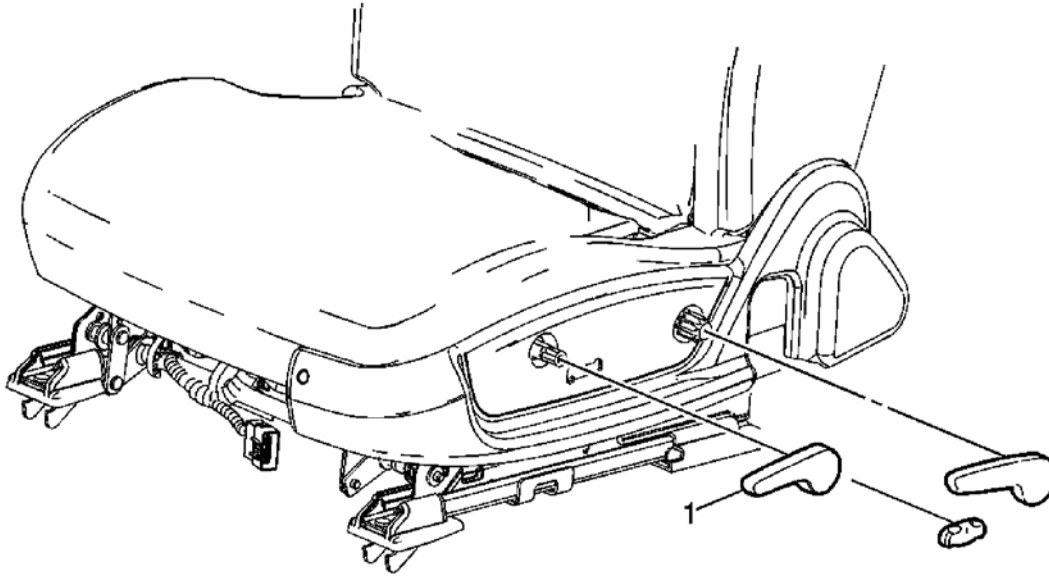


Fig. 45: Replacing Lumbar Support Knob
Courtesy of GENERAL MOTORS CORP.

Lumbar Support Knob Replacement (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Knob, Lumbar Actuator Tip: Pull outward to remove.

LUMBAR SUPPORT KNOB REPLACEMENT (MONTE CARLO)

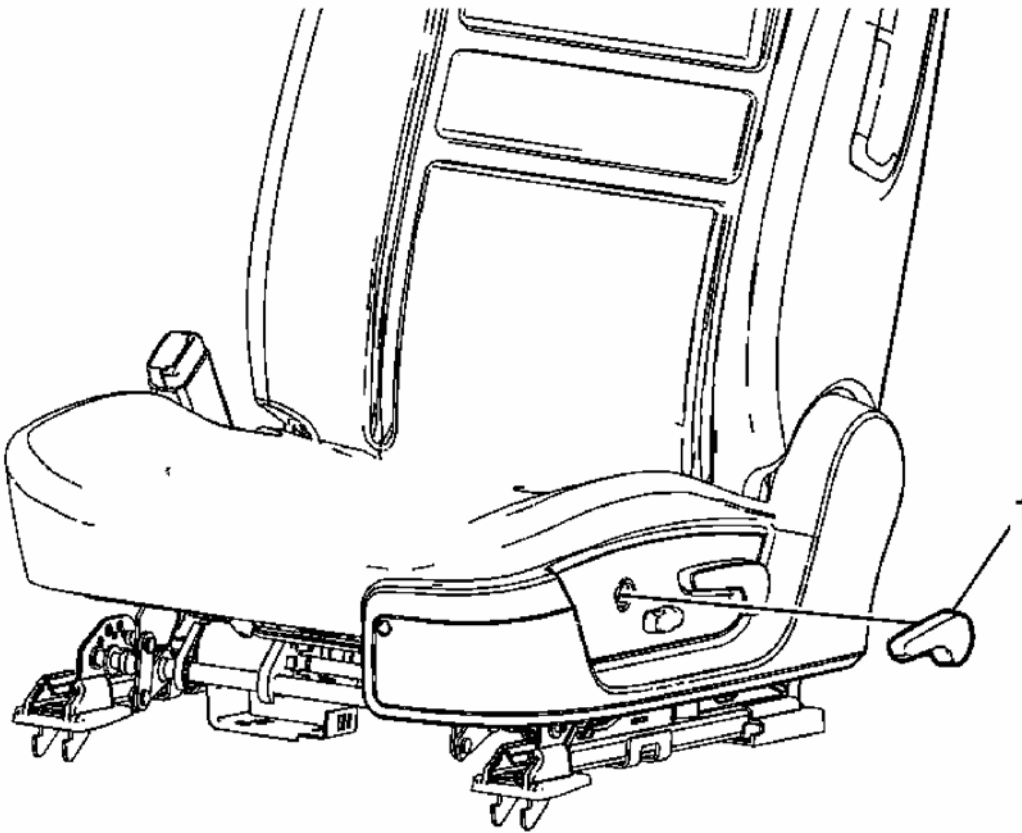


Fig. 46: Replacing Lumbar Support Knob
Courtesy of GENERAL MOTORS CORP.

Lumbar Support Knob Replacement (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>.	
1	Knob, Lumbar Actuator Tip: Pull outward to remove.

FRONT SEAT ADJUSTER REPLACEMENT (IMPALA)

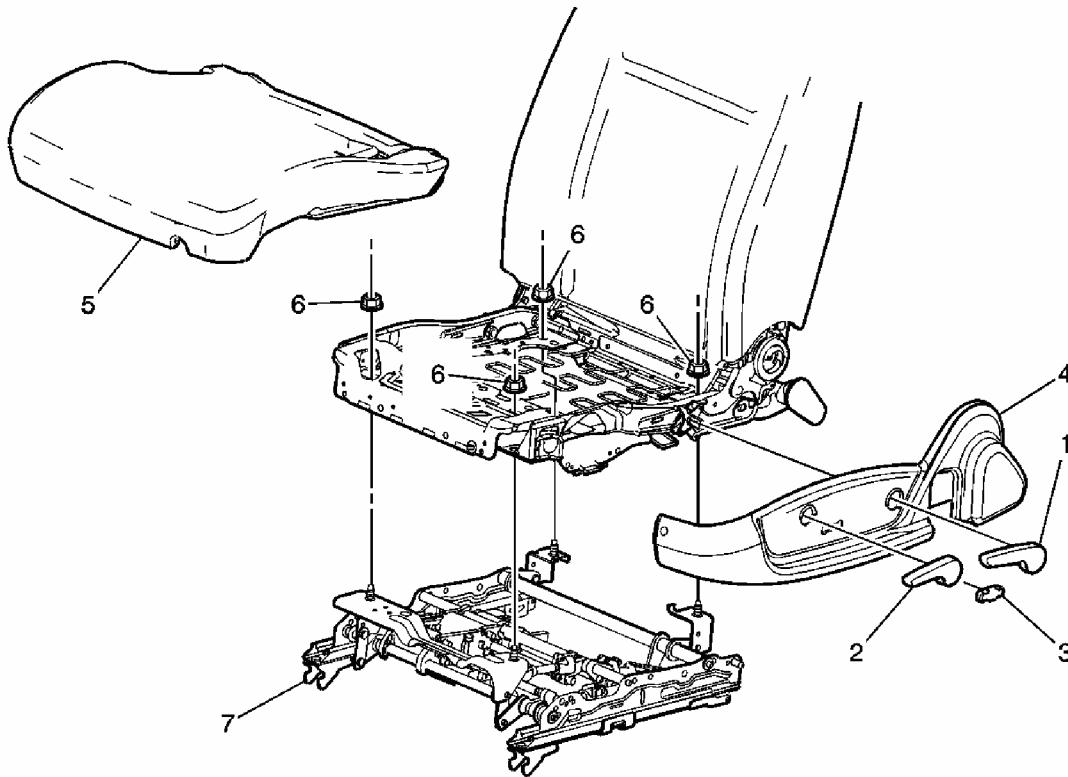


Fig. 47: Replacing Front Seat Adjuster
 Courtesy of GENERAL MOTORS CORP.

Seat Adjuster Replacement - Front (Impala)

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications . Preliminary Procedure: Remove the front seat. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo) .	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
2	Handle, Lumbar Actuator Tip: Pull outward to remove.
3	Knob, Power Seat Switch Tip: Pull outward to remove.
	Panel, Seat Cushion Outer Trim

4	Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
5	Cover, Seat Cushion Tip: 1. Release the j-channel from the seat cushion frame. 2. Disconnect the seat cushion heater electrical connector, if equipped. 3. Remove the seat cushion cover and pad as an assembly from the frame.
6	Nut, Front Seat Cushion Frame (Qty: 4) Tighten: 9 N.m (80 lb in)
7	Adjuster Assembly, Front Seat

FRONT SEAT ADJUSTER REPLACEMENT (MONTE CARLO)

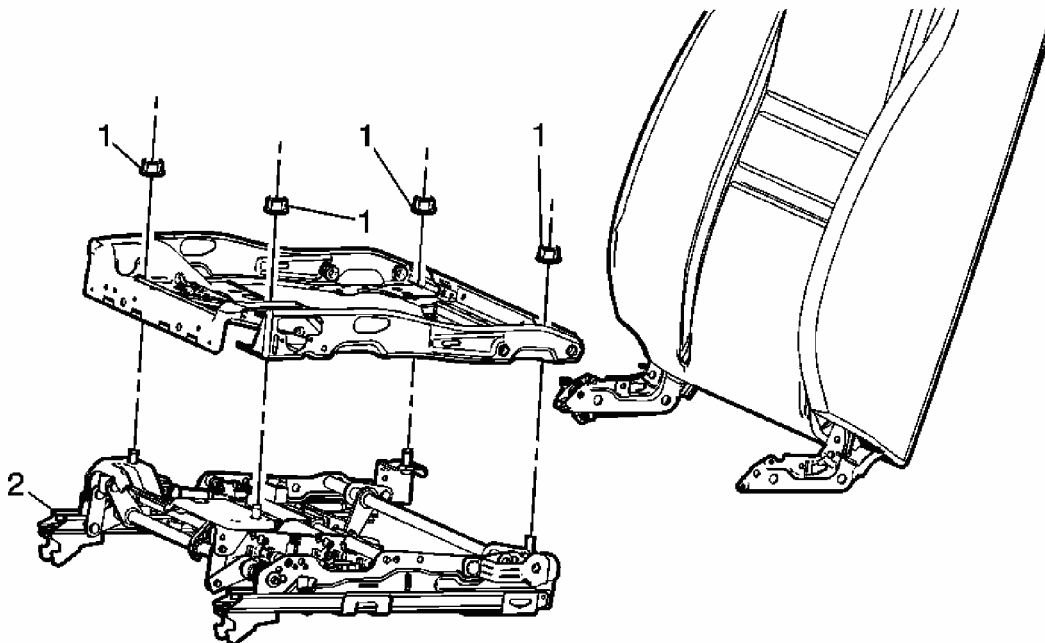


Fig. 48: Replacing Front Seat Adjuster
Courtesy of GENERAL MOTORS CORP.

Seat Adjuster Replacement - Front (Monte Carlo)

Callout	Component Name
NOTE: Refer to Fastener Notice .	

Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.

Preliminary Procedure

1. Disable the SIR system if working on the passenger seat. Refer to SIR Disabling and Enabling Zone 7 and SIR Disabling and Enabling Zone 9 (Monte Carlo) or SIR Disabling and Enabling Zone 9 (Impala) .
2. Remove the front seat. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo).
3. Remove the front seat cushion cover and pad. Refer to Seat Cushion Cover and Pad Replacement - Front (Impala) or Seat Cushion Cover and Pad Replacement - Front (Monte Carlo).

1	Nut, Front Seat Cushion Frame (Qty: 4) Tighten: 9 N.m (80 lb in)
2	Adjuster Assembly, Front Seat

PASSENGER SIDE SEAT ADJUSTER REPLACEMENT (IMPALA W/O AG2)

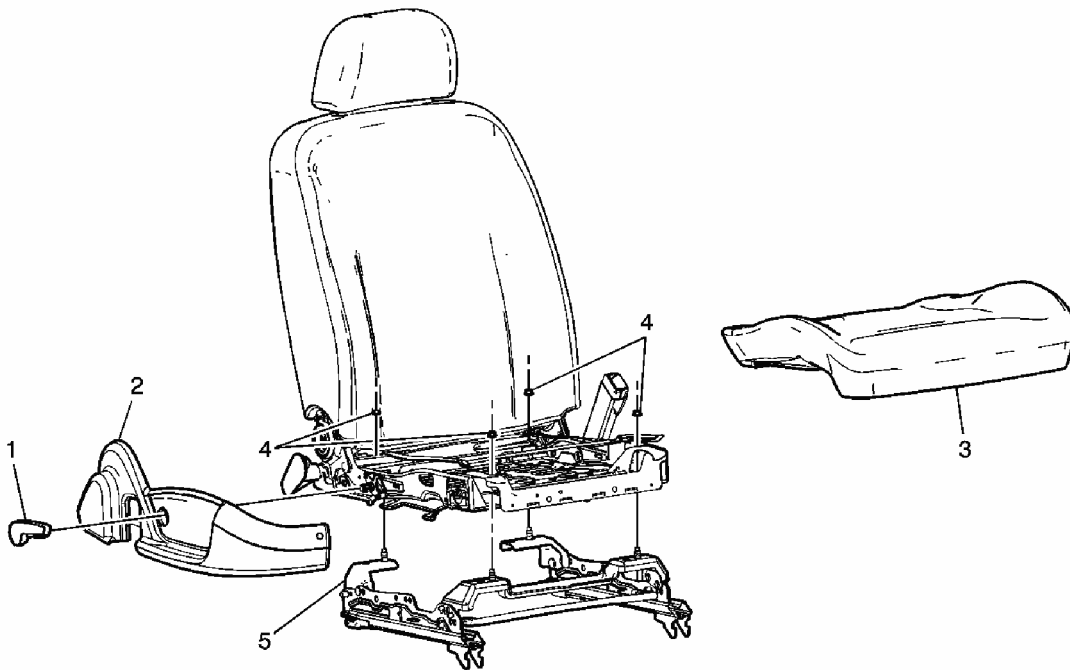


Fig. 49: Replacing Passenger Side Seat Adjuster
Courtesy of GENERAL MOTORS CORP.

Seat Adjuster Replacement - Passenger Side (Impala w/o AG2)

Callout	Component Name
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NOTE:

Refer to **Fastener Notice** .

Fastener Tightening Specifications: Refer to **Fastener Tightening Specifications**. **Preliminary Procedure:** Remove the front seat. Refer to **Seat Replacement - Front Bucket (Impala)** or **Seat Replacement - Front Bucket (Monte Carlo)**.

1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
2	Panel, Seat Cushion Outer Trim Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
3	Cover, Seat Cushion Tip: 1. Release the j-channel from the seat cushion frame. 2. Disconnect the seat cushion heater electrical connector, if equipped. 3. Remove the seat cushion cover and pad as an assembly from the frame.
4	Nut, Front Seat Cushion Frame (Qty: 4) Tighten: 9 N.m (80 lb in)
5	Adjuster Assembly, Front Seat

POWER SEAT SWITCH AND SEAT CUSHION KNOB REPLACEMENT (IMPALA)

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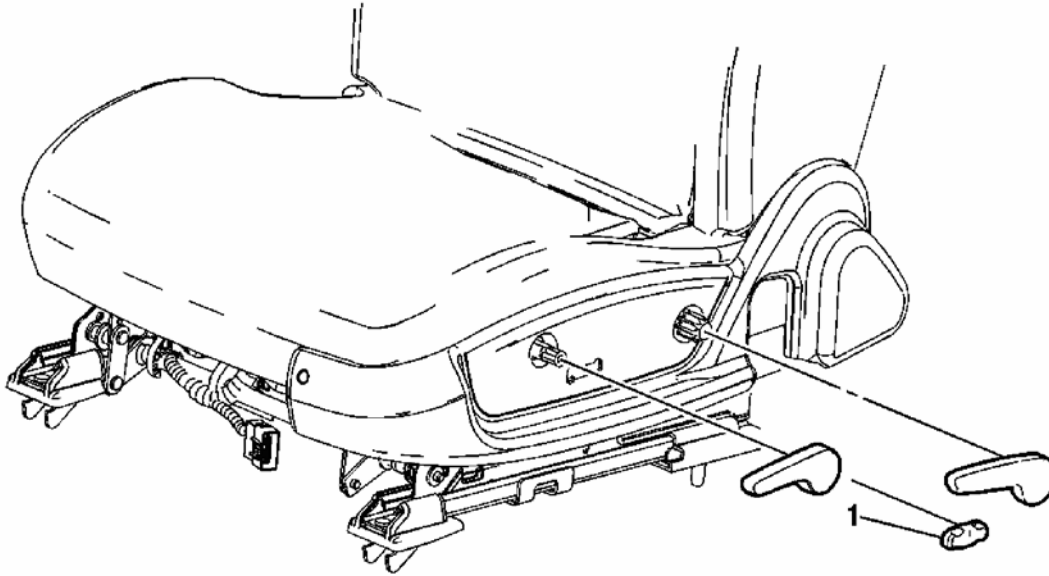


Fig. 50: Replacing Power Seat Switch And Seat Cushion Knob
Courtesy of GENERAL MOTORS CORP.

Knob Replacement - Power Seat Switch - Seat Cushion (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Knob, Power Seat Switch Tip: Pull outward to remove.

POWER SEAT SWITCH AND SEAT CUSHION KNOB REPLACEMENT (MONTE CARLO)

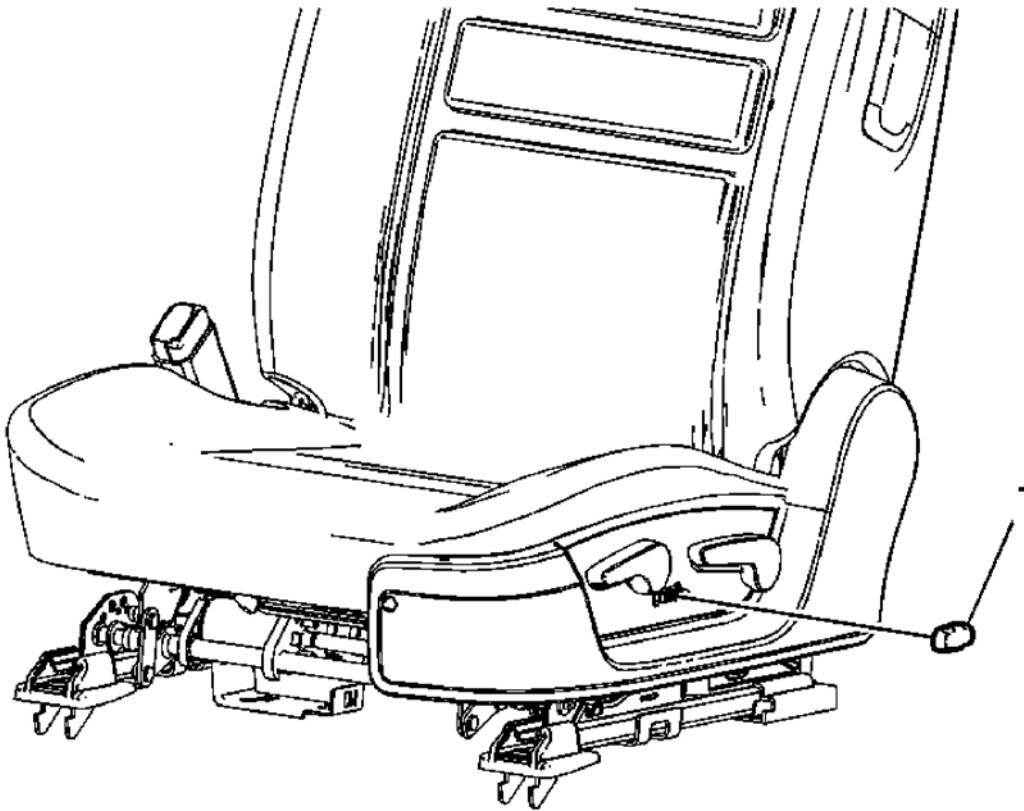


Fig. 51: Replacing Power Seat Switch And Seat Cushion Knob
 Courtesy of GENERAL MOTORS CORP.

Knob Replacement - Power Seat Switch - Seat Cushion (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Knob, Power Seat Switch Tip: Pull outward to remove.

POWER SEAT SWITCH REPLACEMENT (IMPALA)

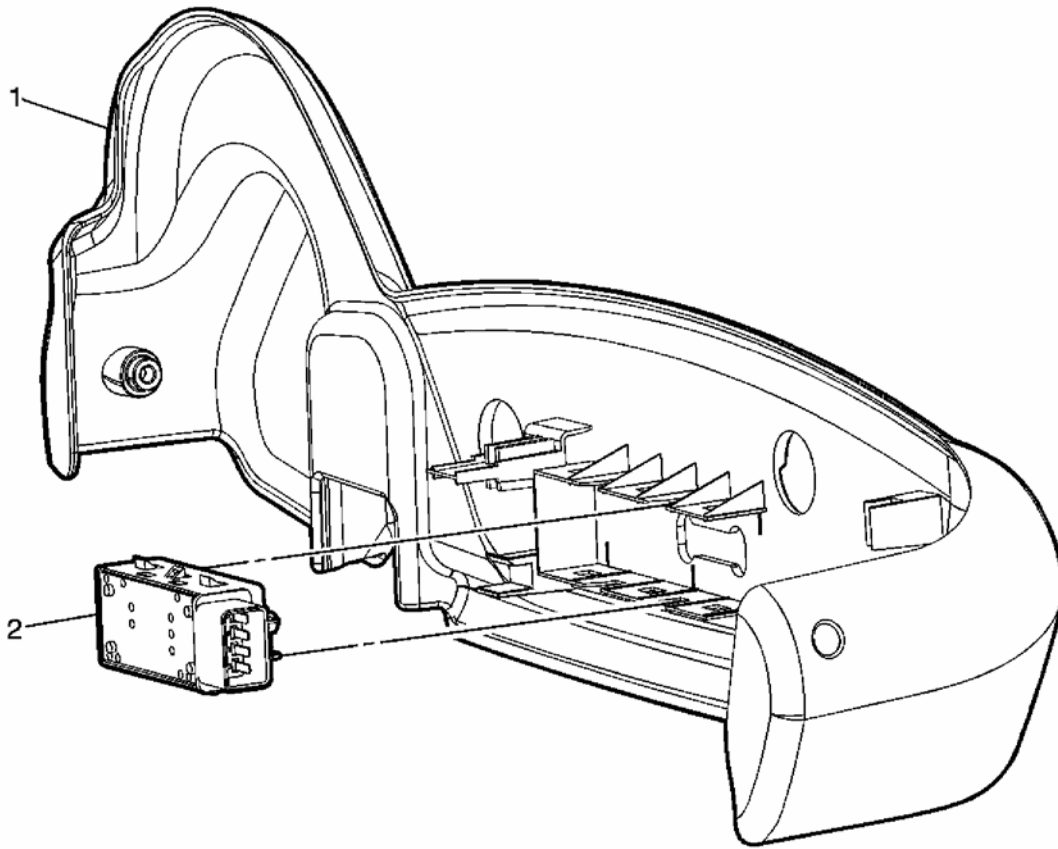


Fig. 52: Replacing Power Seat Switch
Courtesy of GENERAL MOTORS CORP.

Seat Switch Replacement - Power (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Panel, Seat Cushion Outer Trim Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
2	Switch, Power Seat Tip: 1. Disconnect the electrical connector. 2. Release the tabs and pull out of the outer trim panel to remove.

POWER SEAT SWITCH REPLACEMENT (MONTE CARLO)

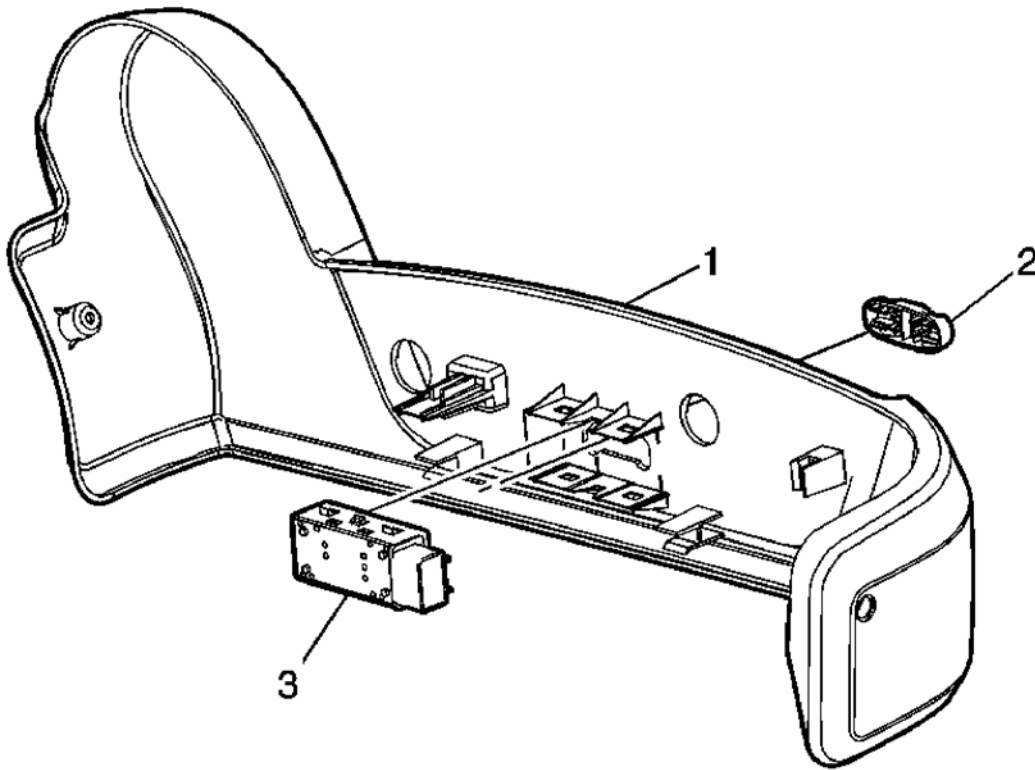


Fig. 53: Replacing Power Seat Switch
 Courtesy of GENERAL MOTORS CORP.

Seat Switch Replacement - Power (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Panel, Seat Cushion Outer Trim Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
2	Knob, Power Seat Switch
3	Switch, Power Seat Tip: 1. Disconnect the electrical connector. 2. Release the tabs and pull out of the outer trim panel to remove.

FRONT SEAT BACK HEATER ELEMENT REPLACEMENT (IMPALA)

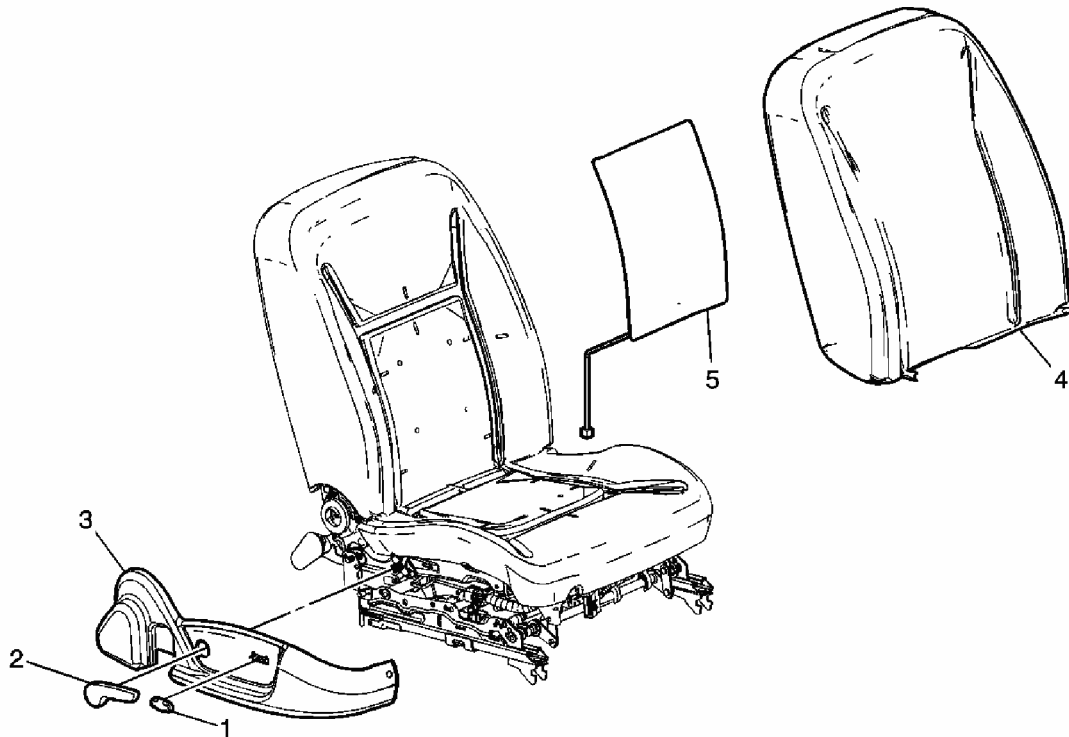


Fig. 54: Replacing Front Seat Back Heater Element
 Courtesy of GENERAL MOTORS CORP.

Seat Back Heater Element Replacement - Front (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seat. Refer to Seat Replacement - Front Bucket (Impala) or Seat Replacement - Front Bucket (Monte Carlo) .	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
2	Knob, Power Seat Switch Tip: Pull outward to remove.
3	Panel, Seat Cushion Outer Trim Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
4	Cover, Seat Back Cushion Refer to Seat Back Cover and Pad Replacement (Impala) or Seat Back Cover and Pad Replacement (Monte Carlo) .
	Heater Assembly, Seat Back Cushion Tip:

5

1. Disconnect the electrical connector.
2. The seat cushion back heater is attached to the pad with adhesive, peel away from the pad to remove.

FRONT SEAT BACK HEATER ELEMENT REPLACEMENT (MONTE CARLO)

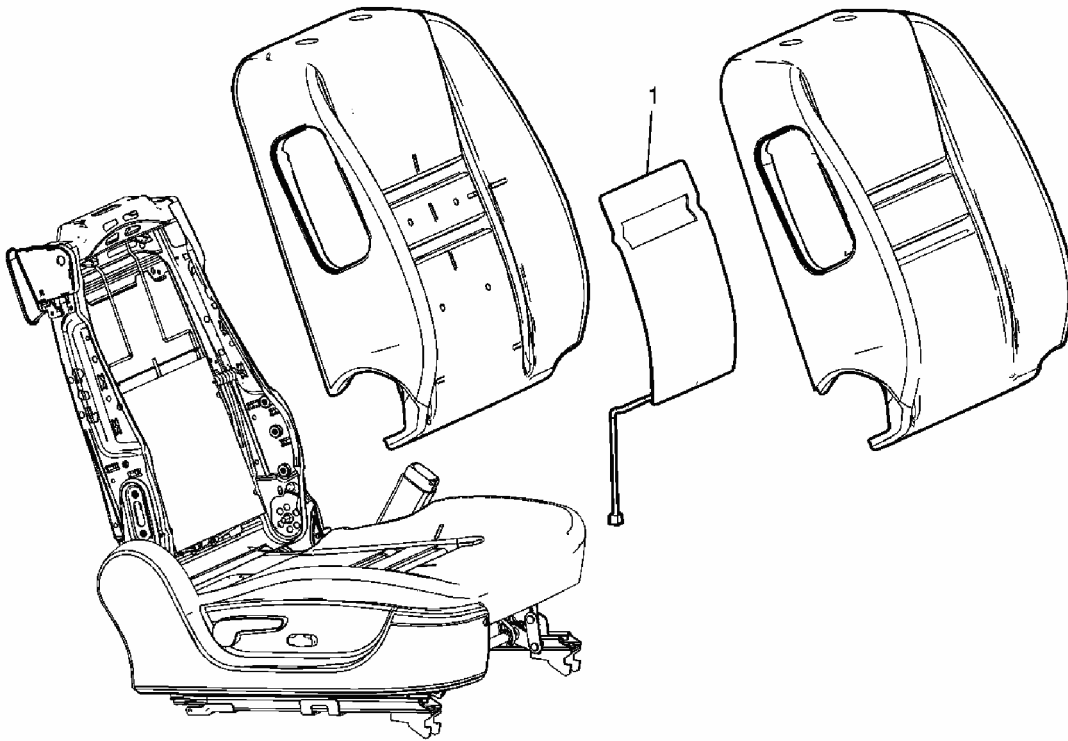


Fig. 55: Replacing Front Seat Back Heater Element
 Courtesy of GENERAL MOTORS CORP.

Seat Back Heater Element Replacement - Front (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure	
1. Disable the SIR system. Refer to <u>SIR Disabling and Enabling Zone 7</u> and <u>SIR Disabling and Enabling Zone 9 (Monte Carlo)</u> or <u>SIR Disabling and Enabling Zone 9 (Impala)</u>. 2. Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u>. 3. Remove the seat back cushion cover and pad. Refer to <u>Seat Back Cover and Pad Replacement (Impala)</u> or <u>Seat Back Cover and Pad Replacement (Monte</u>	

Carlo).

Heater Assembly, Seat Back Cushion

Tip:

1

1. Disconnect the electrical connector.
2. The seat cushion back heater is attached to the pad with adhesive, peel away from the pad to remove.

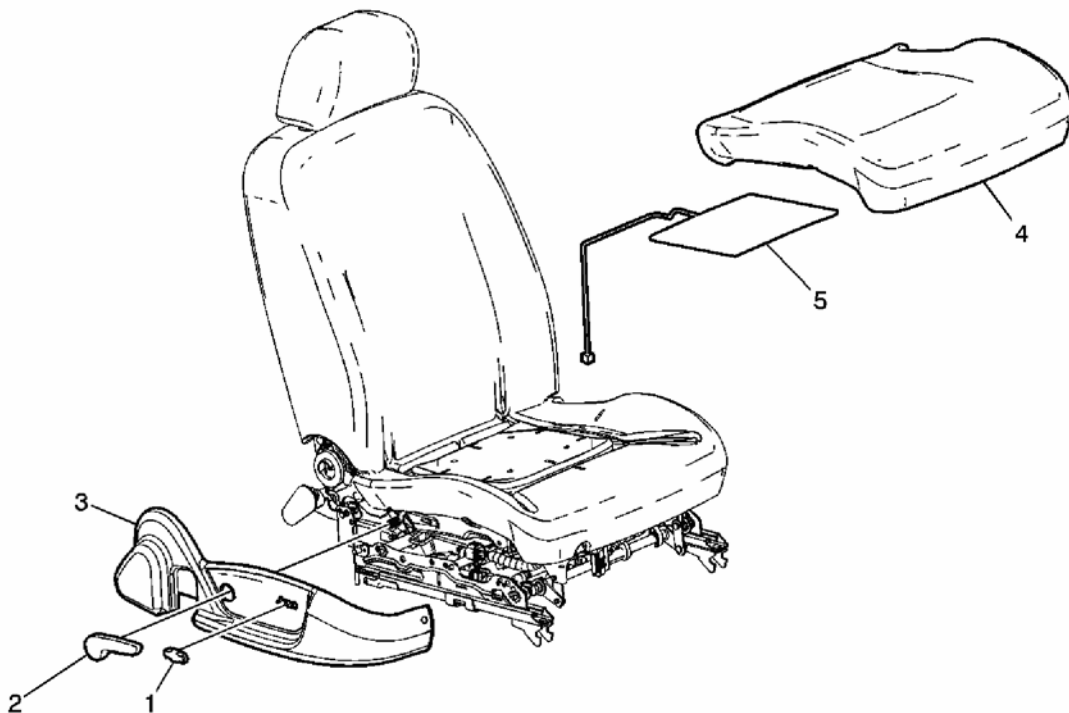
FRONT SEAT CUSHION HEATER ELEMENT REPLACEMENT (IMPALA)

Fig. 56: Replacing Front Seat Cushion Heater Element
 Courtesy of GENERAL MOTORS CORP.

Seat Cushion Heater Element Replacement - Front (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u> .	
1	Handle, Recliner Tip: Using a flat-bladed tool, push the retainer clip downward and pull outward to release the handle.
	Knob, Power Seat Switch

2	Tip: Pull outward to remove.
3	Panel, Seat Cushion Outer Trim Refer to Seat Cushion Outer Trim Panel Replacement (Impala) or Seat Cushion Outer Trim Panel Replacement (Monte Carlo) .
4	Cover, Seat Cushion Refer to Seat Cushion Cover and Pad Replacement - Front (Impala) or Seat Cushion Cover and Pad Replacement - Front (Monte Carlo) .
5	Heater Assembly, Seat Cushion Tip: 1. Disconnect the electrical connector. 2. The seat cushion heater is attached to the pad with adhesive, peel away from the pad to remove.

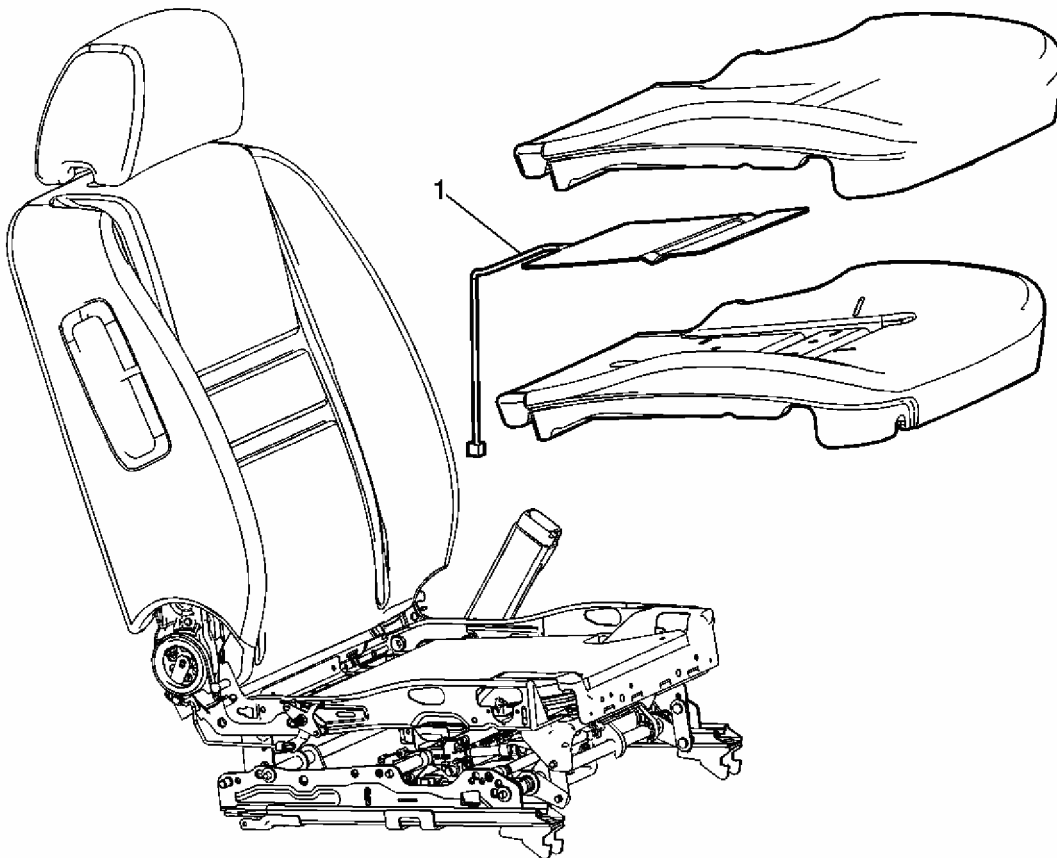
FRONT SEAT CUSHION HEATER ELEMENT REPLACEMENT (MONTE CARLO)

Fig. 57: Replacing Front Seat Cushion Heater Element
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Heater Element Replacement - Front (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedure 1. Disable the SIR system if working on the passenger seat. Refer to <u>SIR Disabling and Enabling Zone 7</u> and <u>SIR Disabling and Enabling Zone 9 (Monte Carlo)</u> or <u>SIR Disabling and Enabling Zone 9 (Impala)</u> . 2. Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u>. 3. Remove the seat cushion cover and pad. Refer to <u>Seat Cushion Cover and Pad Replacement - Front (Impala)</u> or <u>Seat Cushion Cover and Pad Replacement - Front (Monte Carlo)</u>.	
1	Heater Assembly, Seat Cushion Tip: 1. Disconnect the electrical connector. 2. The seat cushion heater is attached to the pad with adhesive, peel away from the pad to remove.

FRONT HEATED SEAT CONTROL MODULE REPLACEMENT (IMPALA)

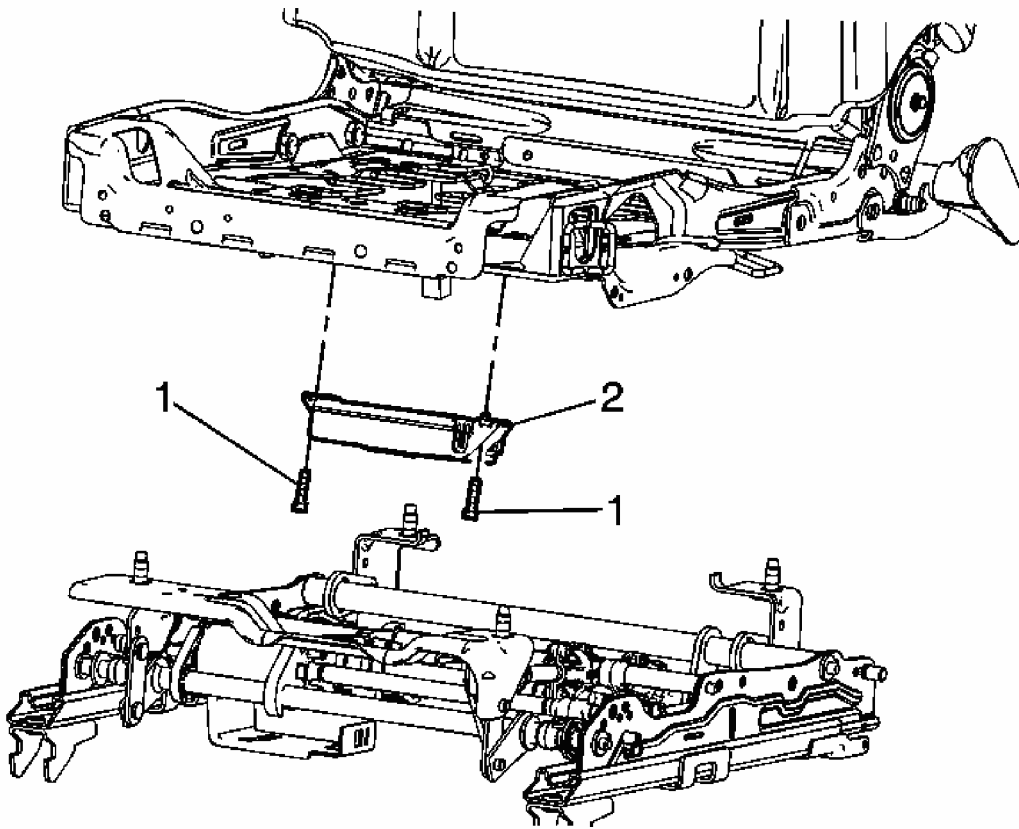


Fig. 58: Replacing Front Heated Seat Control Module
 Courtesy of GENERAL MOTORS CORP.

Heated Seat Control Module Replacement - Front (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure 1. Remove the front seat. Refer to <u>Seat Replacement - Front Bucket (Impala)</u> or <u>Seat Replacement - Front Bucket (Monte Carlo)</u>. 2. Remove the front seat adjuster. Refer to <u>Seat Adjuster Replacement - Front (Impala)</u> or <u>Seat Adjuster Replacement - Front (Monte Carlo)</u>.	
1	Screw, Front Seat Heater Control Module (Qty: 2)

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	Tighten: 2 N.m (18 lb in)
2	Module, Front Seat Heater Control Tip: Disconnect the electrical connector.

FRONT HEATED SEAT CONTROL MODULE REPLACEMENT (MONTE CARLO)

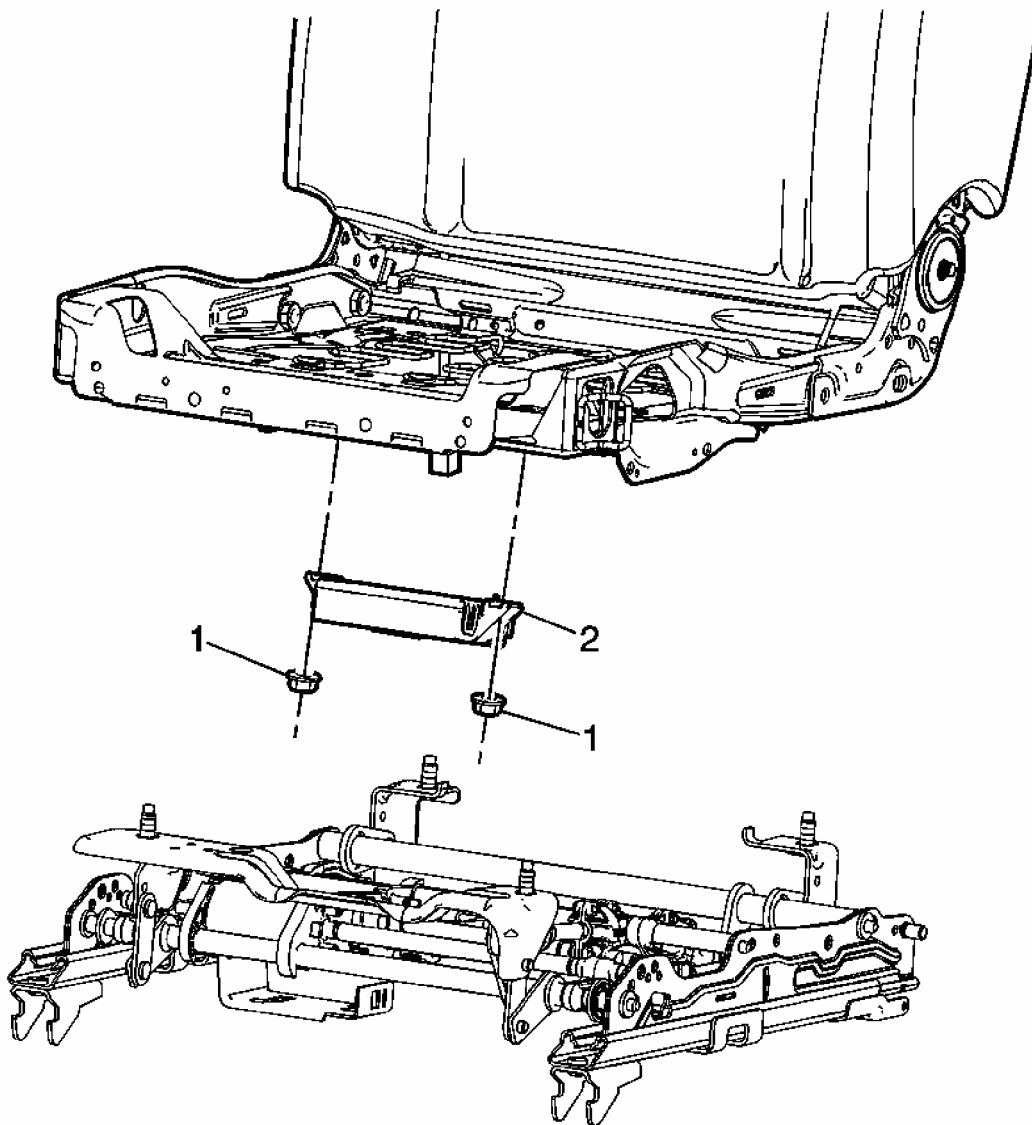


Fig. 59: Replacing Front Heated Seat Control Module
Courtesy of GENERAL MOTORS CORP.

Heated Seat Control Module Replacement - Front (Monte Carlo)

Callout	Component Name
NOTE:	

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Refer to **Fastener Notice** .

Fastener Tightening Specifications: Refer to **Fastener Tightening Specifications**.

Preliminary Procedure

1. Disable the SIR system if working on the passenger seat. Refer to **SIR Disabling and Enabling Zone 7** and **SIR Disabling and Enabling Zone 9 (Monte Carlo)** or **SIR Disabling and Enabling Zone 9 (Impala)** .
2. Remove the front seat. Refer to **Seat Replacement - Front Bucket (Impala)** or **Seat Replacement - Front Bucket (Monte Carlo)**.
3. Remove the front seat adjuster. Refer to **Seat Adjuster Replacement - Front (Impala)** or **Seat Adjuster Replacement - Front (Monte Carlo)**.

1	Nut, Front Seat Heater Control Module (Qty: 2) Tighten: 3 N.m (25 lb in)
2	Module, Front Seat Heater Control Tip: Disconnect the electrical connector.

FRONT SEAT HEAD RESTRAINT REPLACEMENT (IMPALA)

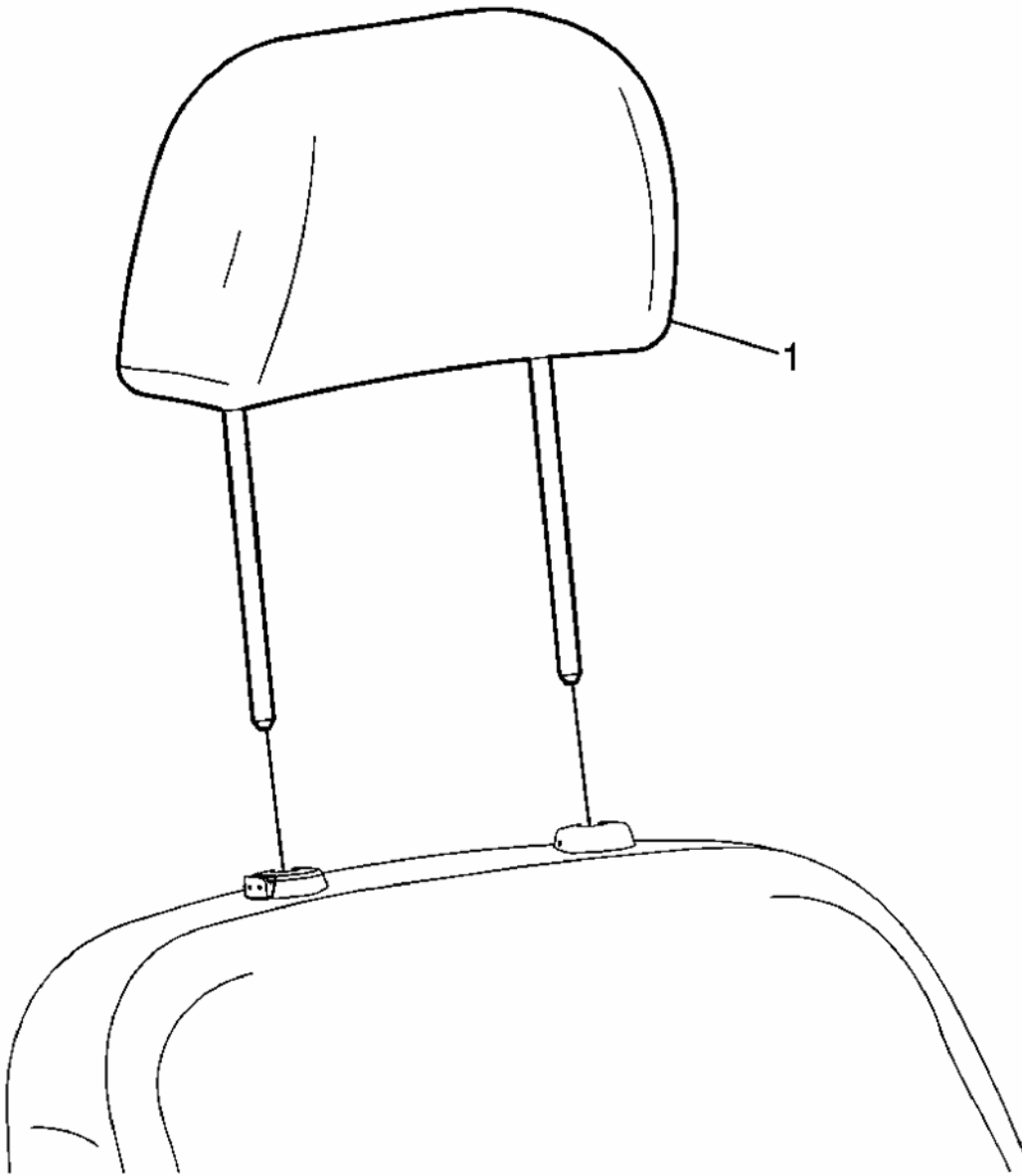


Fig. 60: Replacing Front Seat Head Restraint
 Courtesy of GENERAL MOTORS CORP.

Head Restraint Replacement - Front Seat (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Restraint, Front Seat Head Tip: 1. Depress the button on the inboard head restraint guide to raise the

- head restraint to the full up position.
2. Insert a small diameter tool into the hole on the inboard side of the outboard head restraint guide and pull upward to remove.

FRONT SEAT HEAD RESTRAINT REPLACEMENT (MONTE CARLO)

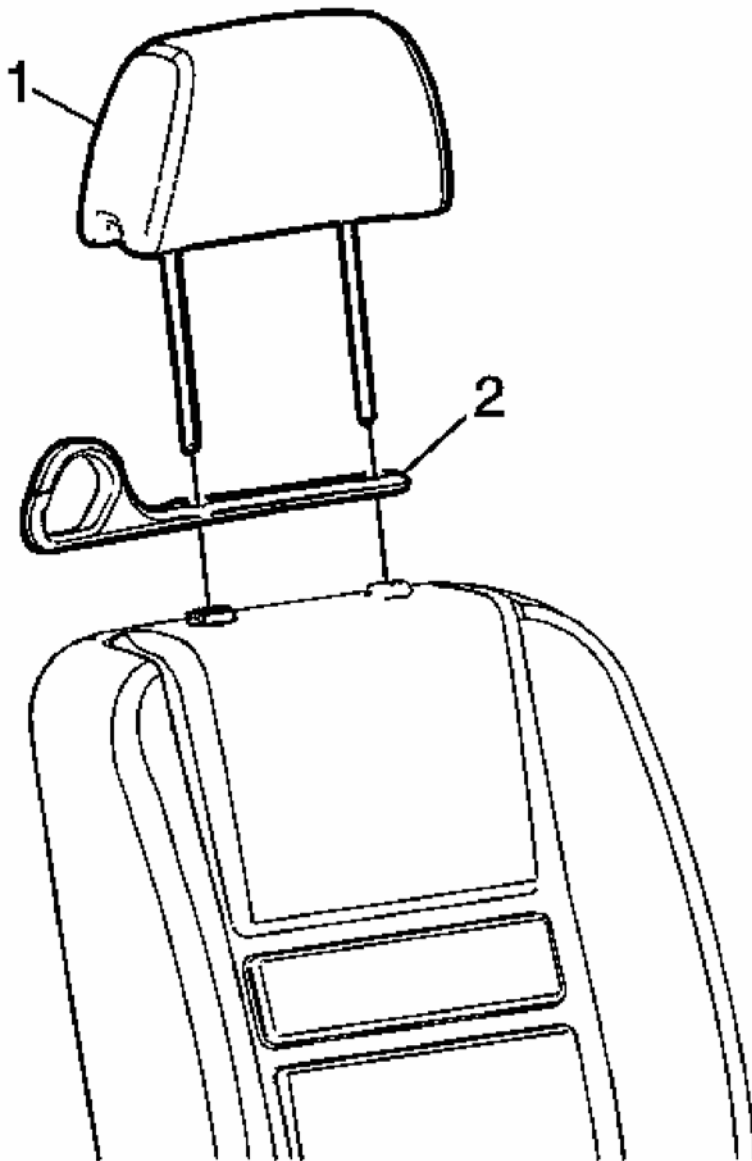


Fig. 61: Replacing Front Seat Head Restraint
Courtesy of GENERAL MOTORS CORP.

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Head Restraint Replacement - Front Seat (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Restraint, Front Seat Head Tip: 1. Depress the button on the inboard head restraint guide to raise the head restraint to the full up position. 2. Insert a small diameter tool into the hole on the inboard side of the outboard head restraint guide and pull upward to remove.
2	Guide, Seat Shoulder Belt Tip: Cut the retainers that secure the should belt guide to the head restraint to remove and install new retainers to reinstall.

FRONT SEAT HEAD RESTRAINT GUIDE REPLACEMENT (IMPALA)

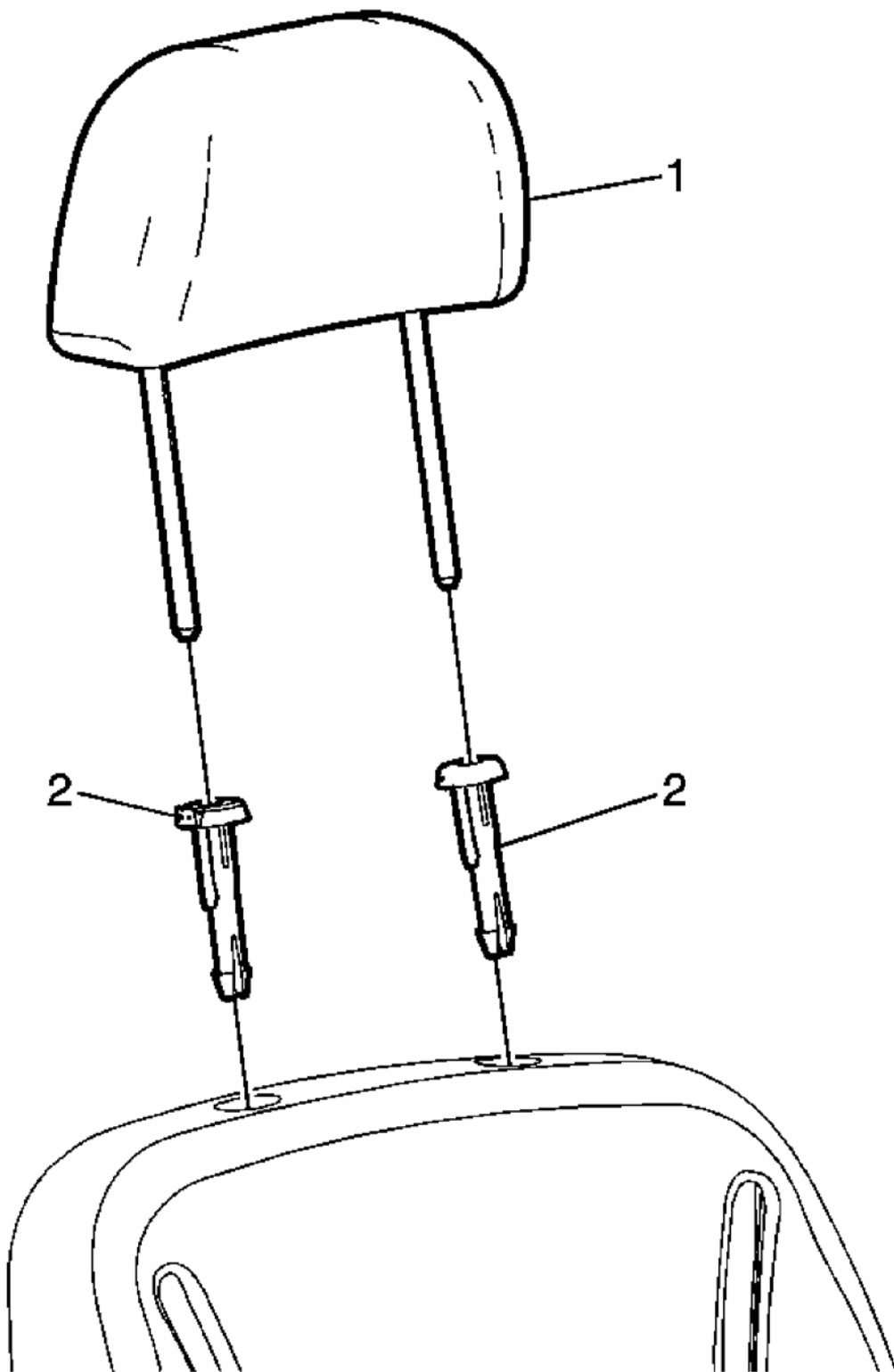


Fig. 62: Replacing Front Seat Head Restraint Guide

Courtesy of GENERAL MOTORS CORP.

Head Restraint Guide Replacement - Front Seat (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the front seat back panel. Refer to <u>Seat Back Panel Replacement - Front (Impala)</u> or <u>Seat Back Panel Replacement - Front (Monte Carlo)</u> .	
1	Restraint, Front Seat Head Tip: - Depress the button on the inboard head restraint guide to raise the head restraint to the full up position. - Insert a small diameter tool into the hole on the inboard side of the outboard head restraint guide and pull upward to remove.
2	Guide, Front Seat Head Restraint (Qty: 2) Tip: Reach up and into the top of the seat back, while pressing the tabs on the bottom of the head restraint guide, pull the guide from the seat back frame.

FRONT SEAT HEAD RESTRAINT GUIDE REPLACEMENT (MONTE CARLO)

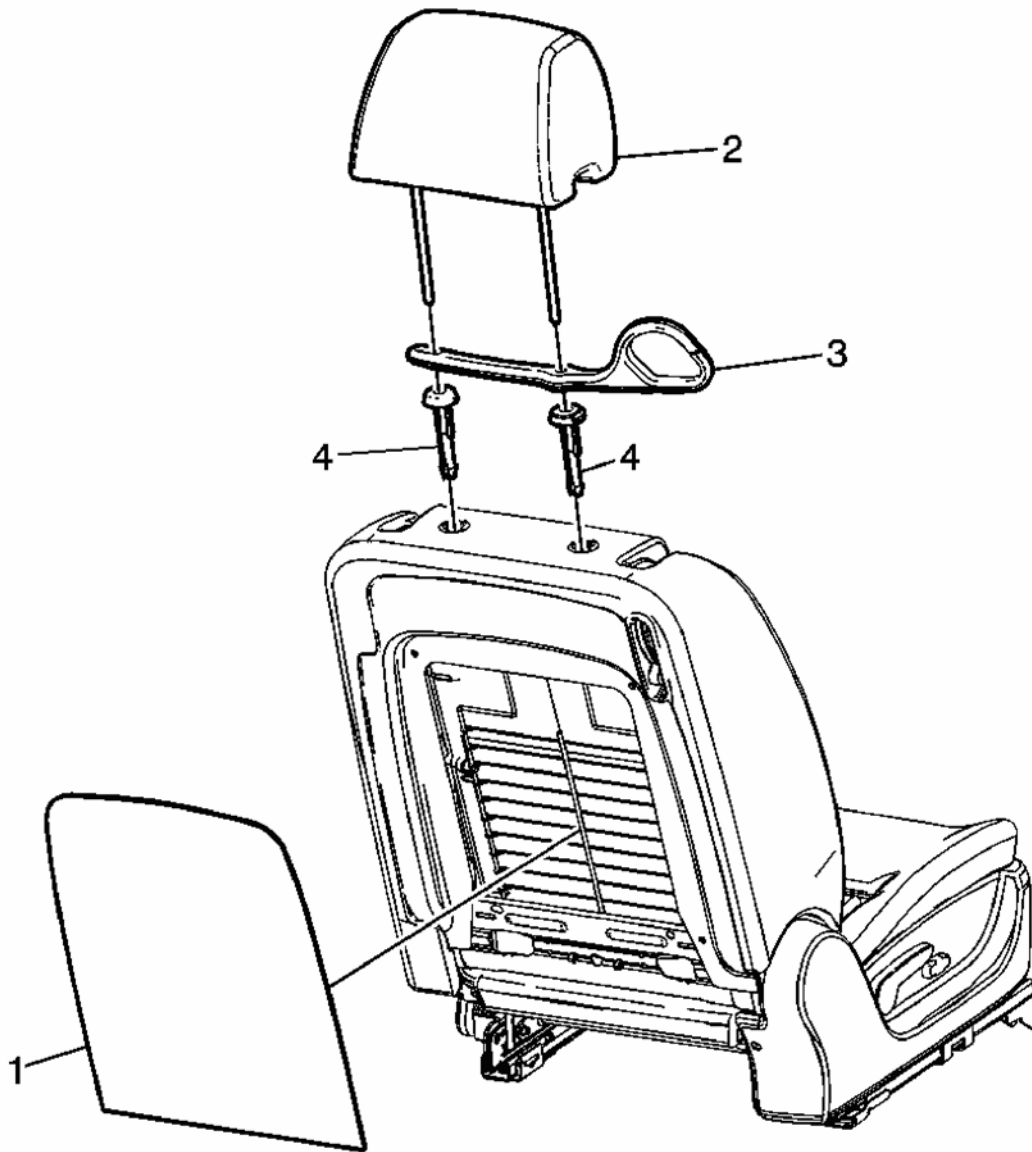


Fig. 63: Replacing Front Seat Head Restraint Guide
 Courtesy of GENERAL MOTORS CORP.

Head Restraint Guide Replacement - Front Seat (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications.	
1	Panel, Front Seat Back Finish Refer to Seat Back Panel Replacement - Front (Impala) or Seat Back Panel Replacement - Front (Monte Carlo) .
	Restraint, Front Seat Head Tip:

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2	1. Depress the button on the inboard head restraint guide to raise the head restraint to the full up position. 2. Insert a small diameter tool into the hole on the inboard side of the outboard head restraint guide and pull upward to remove.
3	Guide, Seat Shoulder Belt
4	Guide, Front Seat Head Restraint (Qty: 2) Tip: Reach up and into the top of the seat back, while pressing the tabs on the bottom of the head restraint guide, pull the guide from the seat back frame.

FRONT SEAT ARMREST REPLACEMENT (IMPALA)

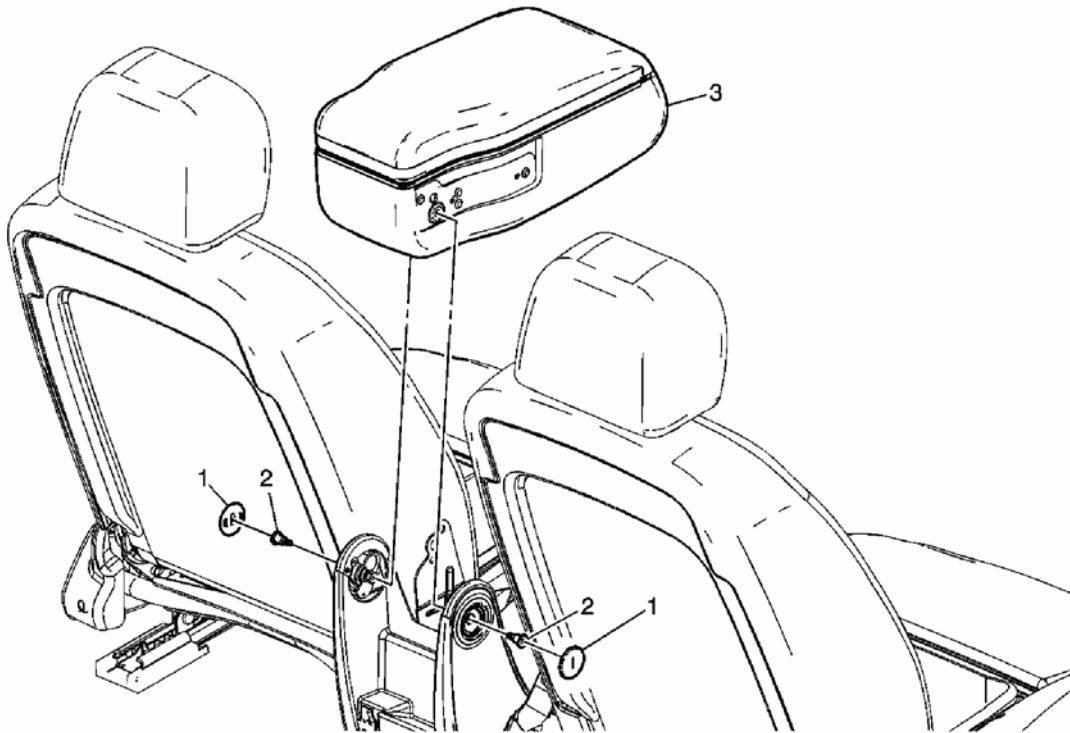


Fig. 64: Replacing Front Seat Armrest
Courtesy of GENERAL MOTORS CORP.

Armrest Replacement - Front Seat (Impala)

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	

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2006 ACCESSORIES & EQUIPMENT Seats - Impala

1	Cover, Front Center Seat Armrest Bolt (Qty: 2) Tip: Move the front bucket seats forward far enough to gain access to the armrest bolt cover.
2	Bolt, Front Center Seat Armrest (Qty: 2) Tighten: 3 N.m (25 lb in)
3	Armrest Assembly, Front Center Seat

FRONT SEAT ARMREST CUP HOLDER REPLACEMENT

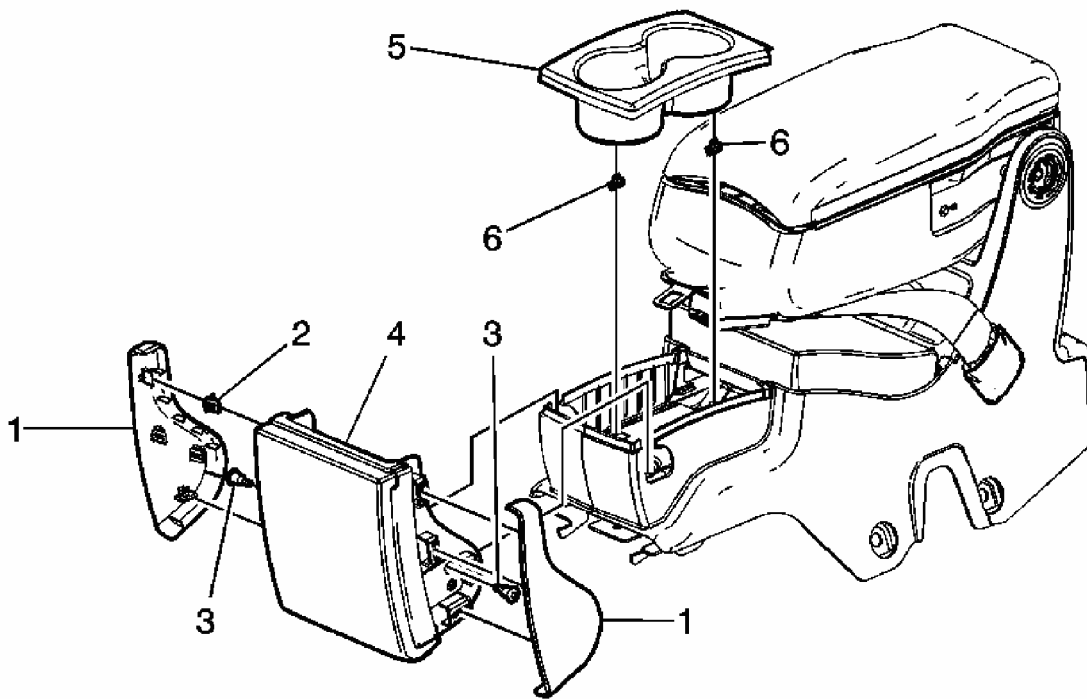


Fig. 65: Replacing Front Seat Armrest Cup Holder
Courtesy of GENERAL MOTORS CORP.

Armrest Cup Holder Replacement - Front Seat

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	End Cap, Front Seat Cup Holder (Qty: 2)
2	Clip, End Cap Retainer (Qty: 8)
3	Bolt, Front Seat Panel Pivot (Qty: 2) Tighten: 3 N.m (25 lb in)

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2006 ACCESSORIES & EQUIPMENT Seats - Impala

4	Panel Assembly, Front Seat
5	Holder, Front Center Seat Cup
6	Clip, Front Center Seat Cup Holder (Qty: 2)

FRONT SEAT ARMREST STOWAGE COMPARTMENT REPLACEMENT

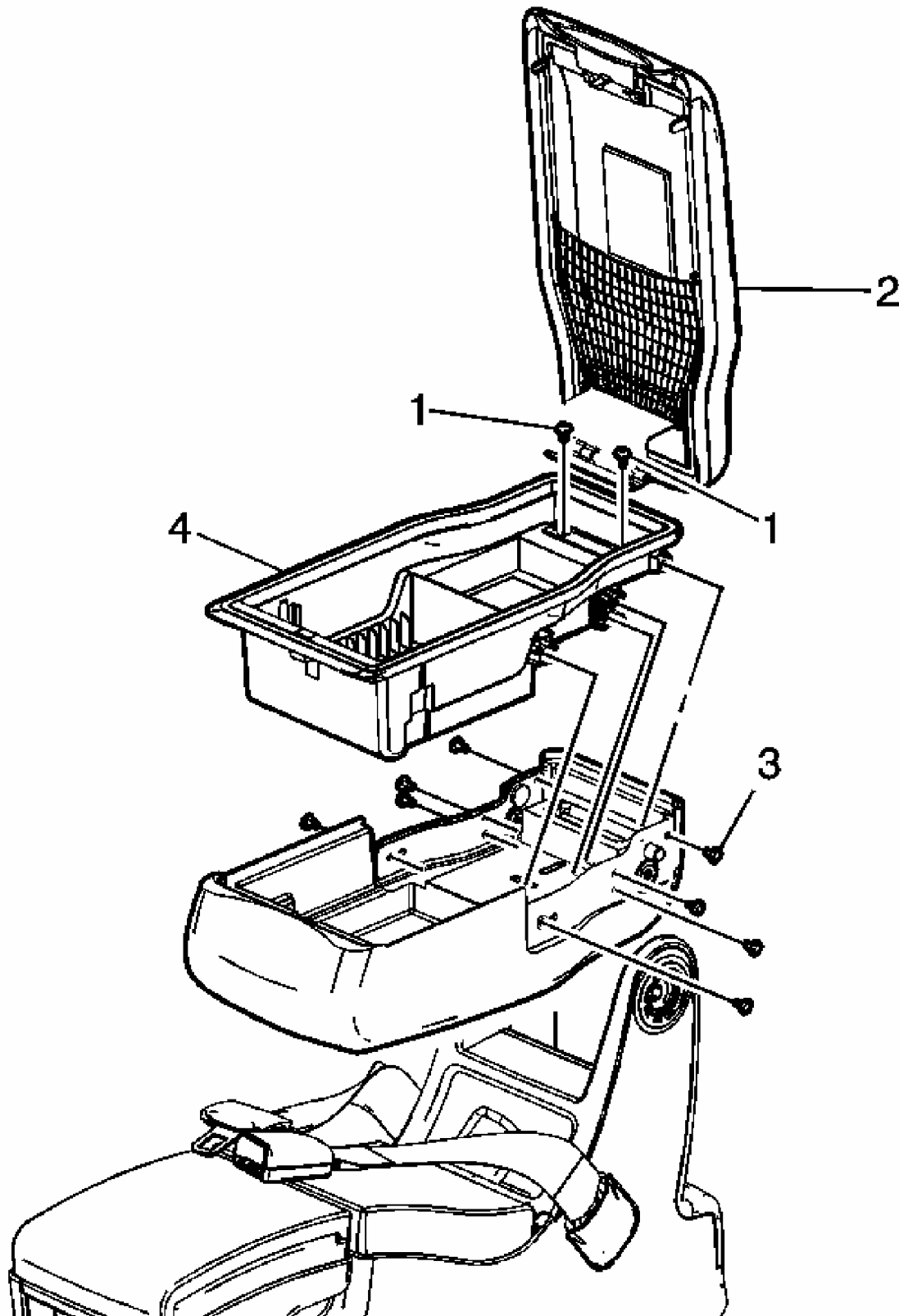


Fig. 66: Replacing Front Seat Armrest Stowage Compartment
Courtesy of GENERAL MOTORS CORP.

2006 Chevrolet Impala LS

2006 ACCESSORIES & EQUIPMENT Seats - Impala

Front Seat Armrest Stowage Compartment Replacement

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Screw, Front Seat Armrest Hinge (Qty: 2) Tighten: 3 N.m (25 lb in)
2	Lid Assembly, Front Seat Armrest
3	Screw, Front Seat Armrest Bin (Qty: 8) Tighten: 3 N.m (25 lb in)
4	Compartment Assembly, Front Seat Armrest Stowage

FRONT SEAT ARMREST HINGE REPLACEMENT

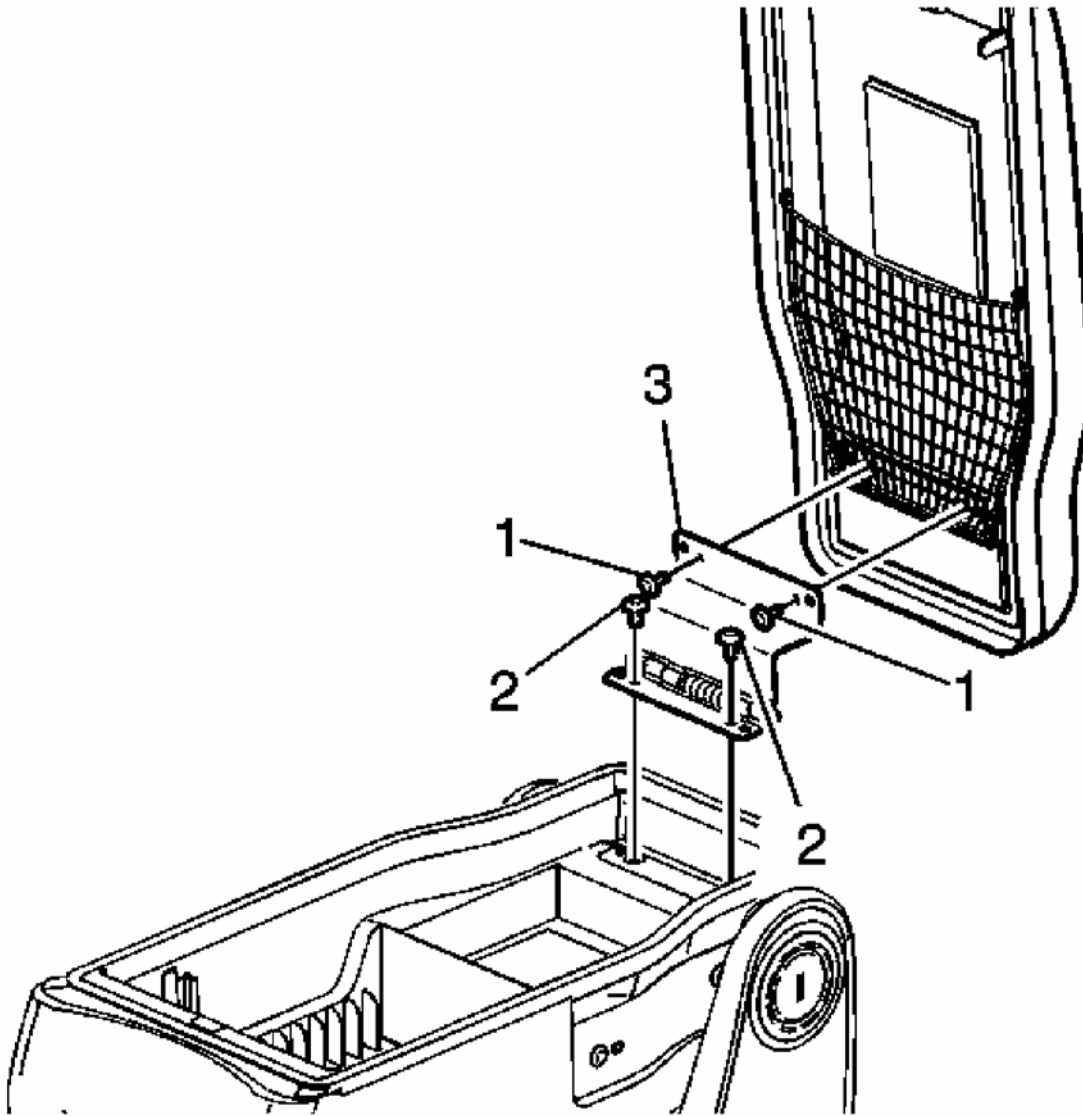


Fig. 67: Replacing Front Seat Armrest Hinge
Courtesy of GENERAL MOTORS CORP.

Front Seat Armrest Hinge Replacement

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Screw, Front Seat Armrest Hinge (Qty: 2) Tighten: 3 N.m (25 lb in)
2	Screw, Front Seat Armrest Hinge (Qty: 2)

	Tighten: 3 N.m (25 lb in)
3	Hinge, Front Seat Armrest

FRONT SEAT ARMREST LATCH REPLACEMENT

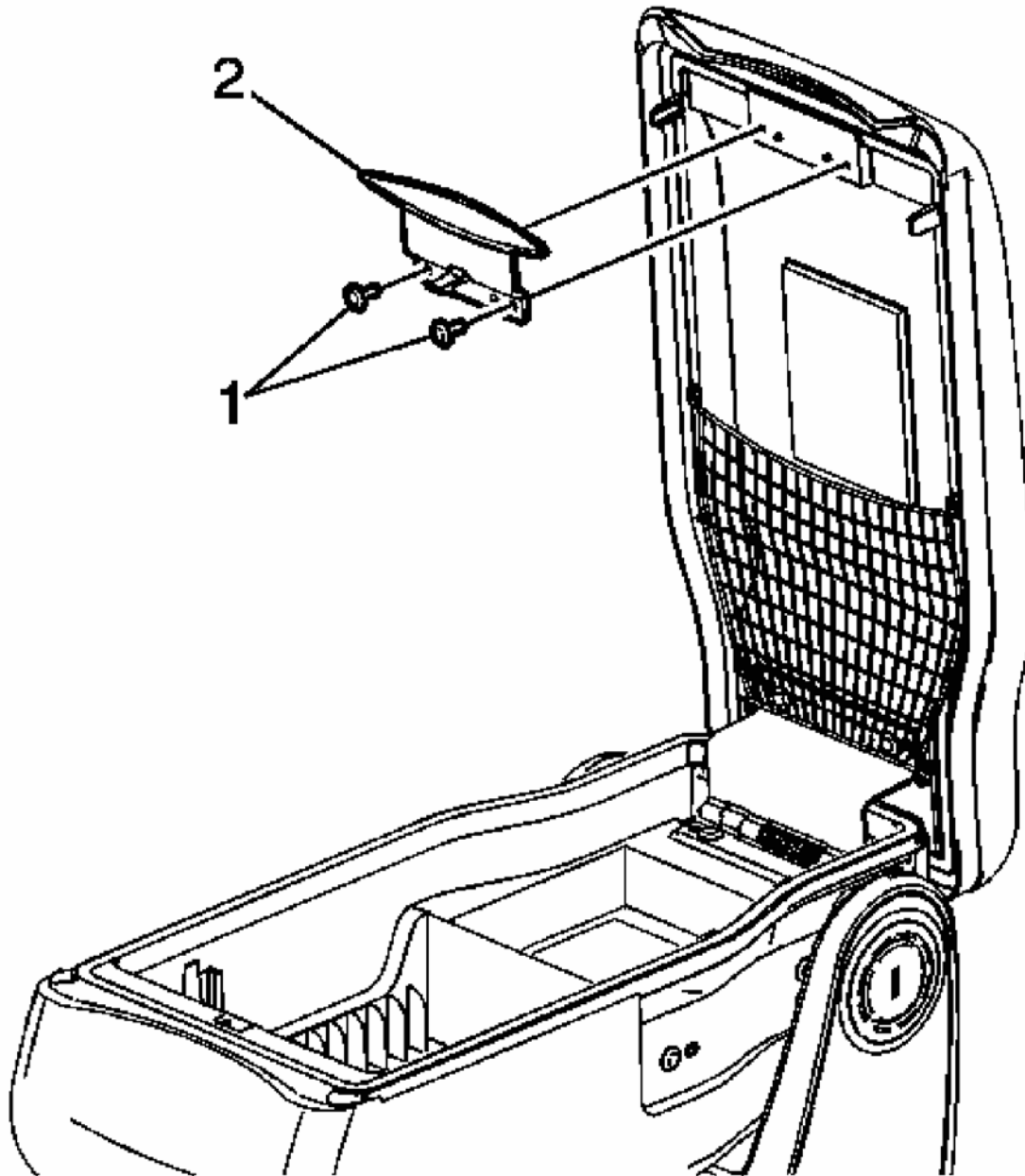


Fig. 68: Replacing Front Seat Armrest Latch
Courtesy of GENERAL MOTORS CORP.

Front Seat Armrest Latch Replacement

Callout	Component Name
NOTE:	

2006 Chevrolet Impala LS

2006 ACCESSORIES & EQUIPMENT Seats - Impala

Refer to **Fastener Notice** .

Fastener Tightening Specifications: Refer to **Fastener Tightening Specifications**.

1	Screw, Front Seat Armrest Hinge (Qty: 2) Tighten: 3 N.m (25 lb in)
2	Latch Assembly, Front Seat Armrest

FRONT SEAT ARMREST LID REPLACEMENT

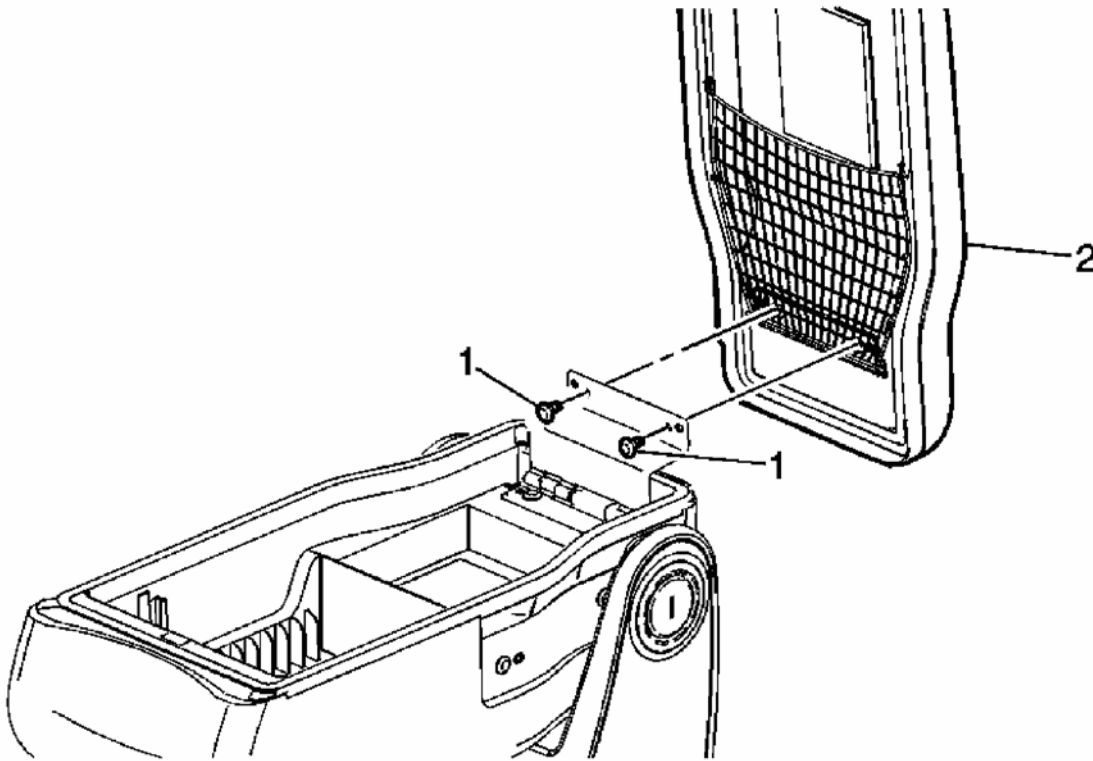


Fig. 69: Replacing Front Seat Armrest Lid
Courtesy of GENERAL MOTORS CORP.

Front Seat Armrest Lid Replacement

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Screw, Front Seat Armrest Hinge (Qty: 2) Tighten: 3 N.m (25 lb in)

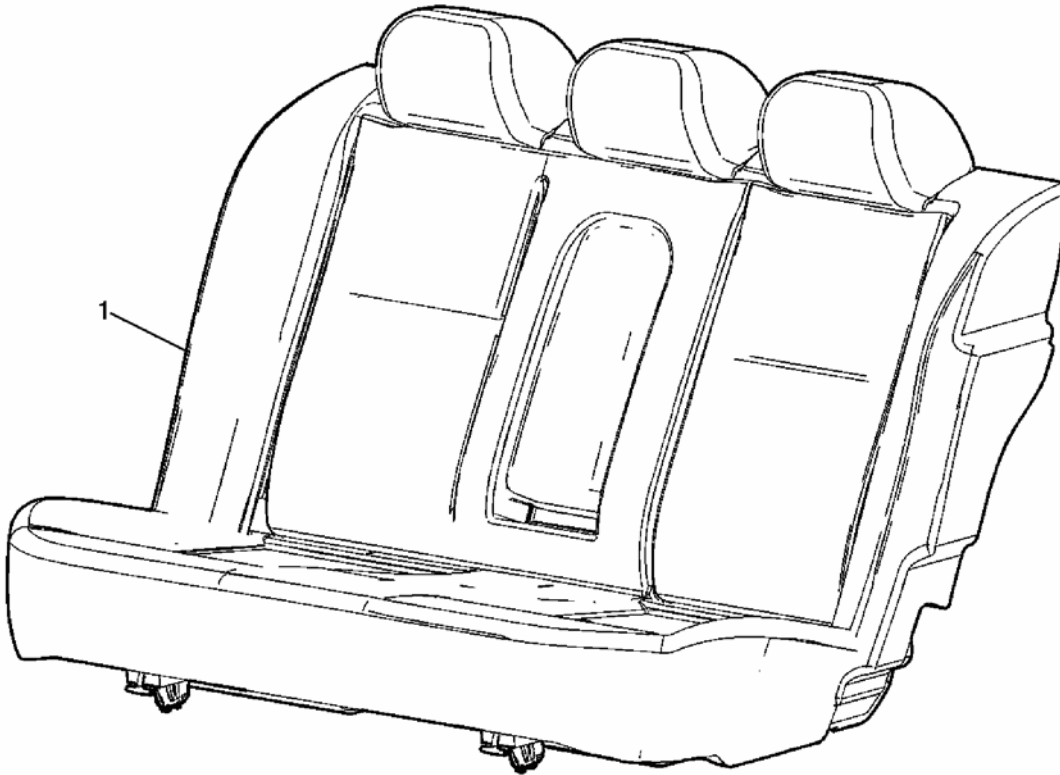
REAR SEAT CUSHION REPLACEMENT (IMPALA)

Fig. 70: Replacing Rear Seat Cushion
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Replacement - Rear (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Cushion Assembly, Rear Seat Tip: Pull on the pull handle at the front of the seat cushion to disengage the integral retainers, and lift out of the vehicle.

REAR SEAT CUSHION REPLACEMENT (MONTE CARLO)

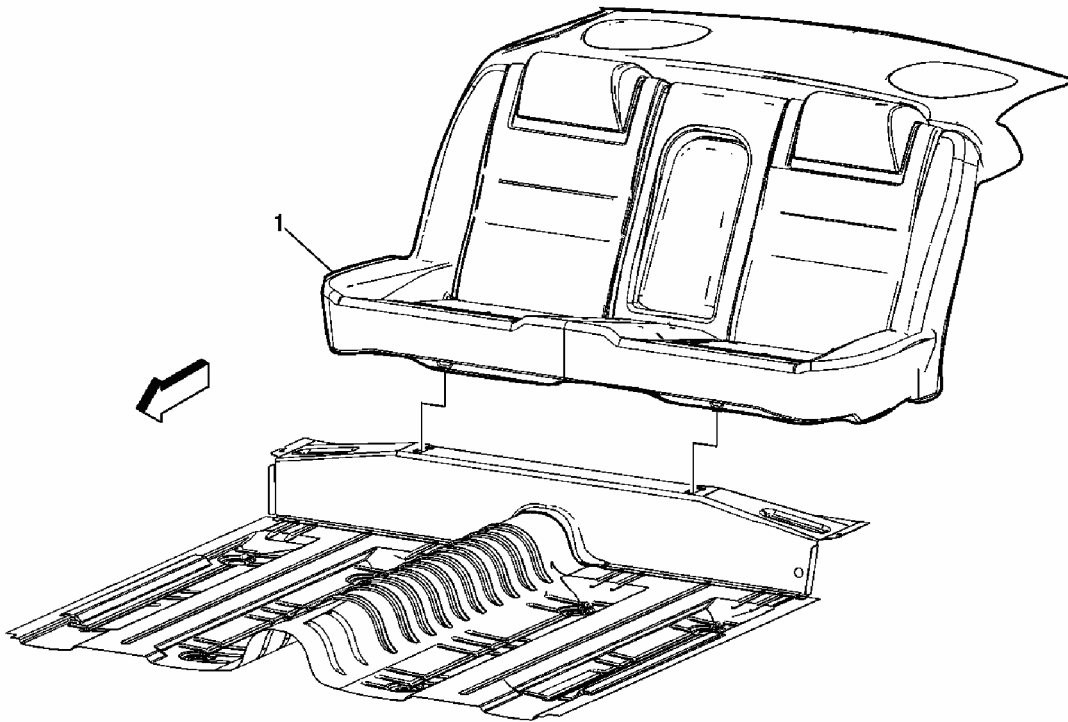


Fig. 71: Replacing Rear Seat Cushion
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Replacement - Rear (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
1	Cushion Assembly, Rear Seat Tip: Pull up on the front of the seat cushion to disengage the integral retainers, and lift out of the vehicle.

REAR SEAT CUSHION FLOOR STOWAGE COMPARTMENT REPLACEMENT

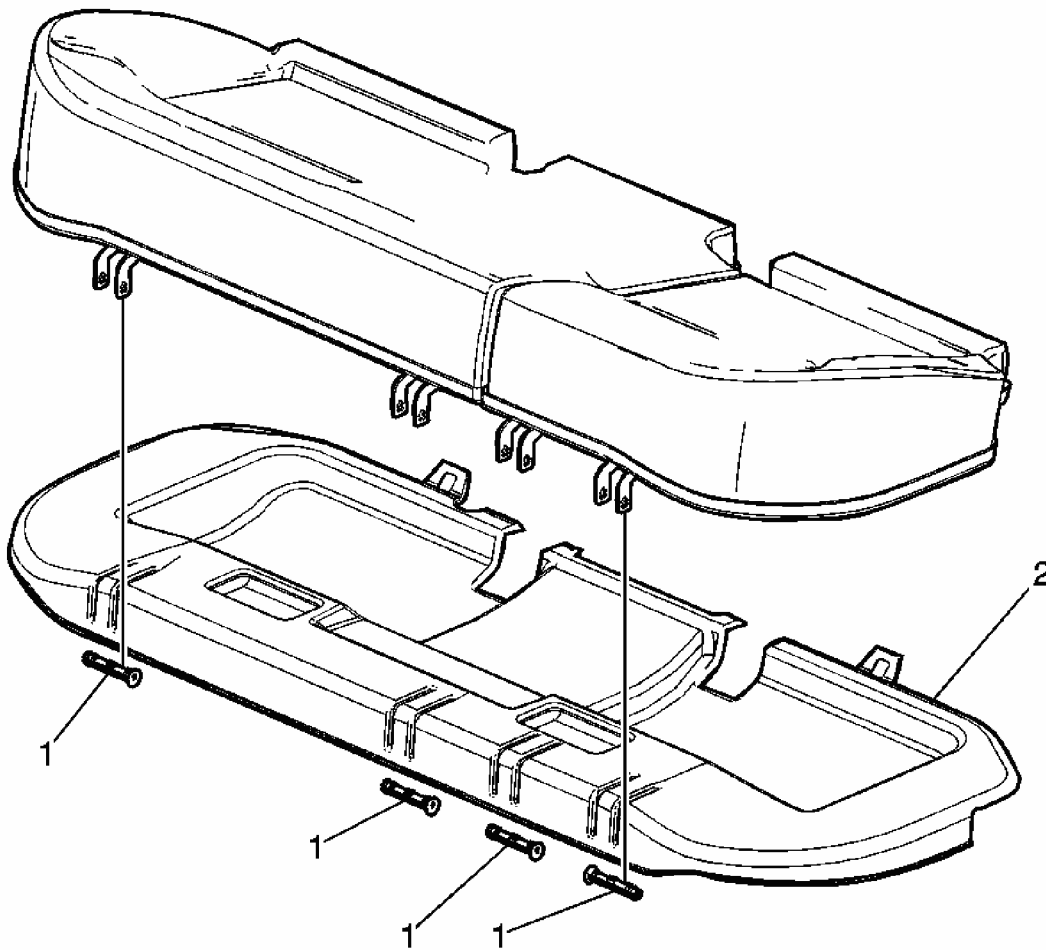


Fig. 72: Replacing Rear Seat Cushion Floor Stowage Compartment
 Courtesy of GENERAL MOTORS CORP.

Rear Seat Cushion Floor Stowage Compartment Replacement

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> . Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u>. Preliminary Procedure: Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u>.	
1	Rear Seat Cushion Bushing (Qty: 4)
2	Rear Seat Cushion Floor Stowage Compartment Tip: Once the bushings are removed the seat cushion assembly can be separated from the floor stowage compartment.

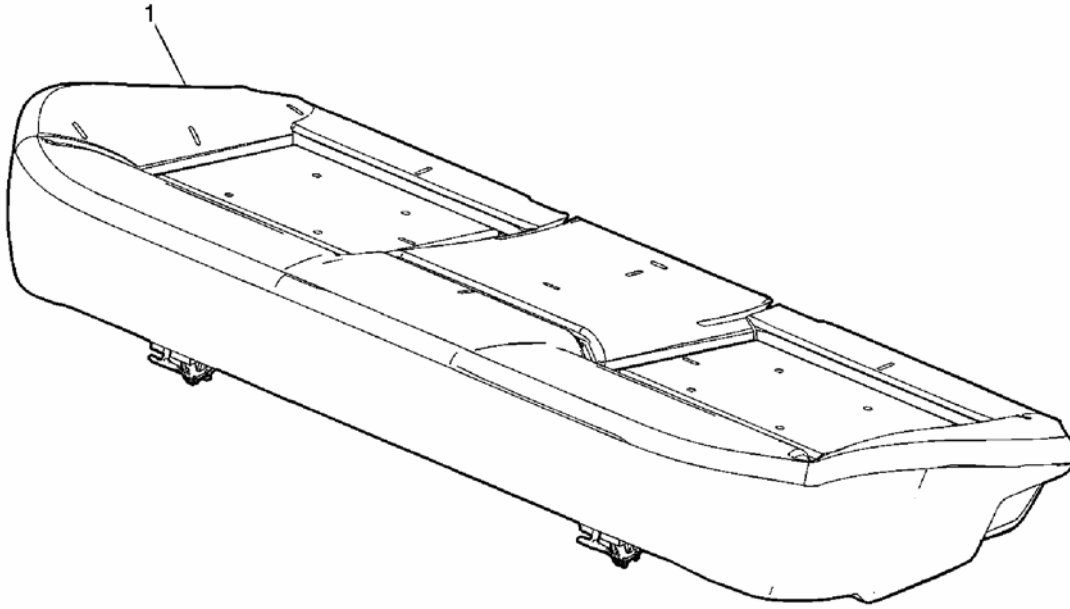
REAR SEAT CUSHION COVER AND PAD REPLACEMENT (IMPALA)

Fig. 73: Replacing Rear Seat Cushion Cover And Pad
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Cover and Pad Replacement - Rear (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedures: Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u> .	
1	Cover, Rear Seat Cushion Tip: The cushion cover and pad are serviced as an assembly.

REAR SEAT CUSHION COVER AND PAD REPLACEMENT (MONTE CARLO)

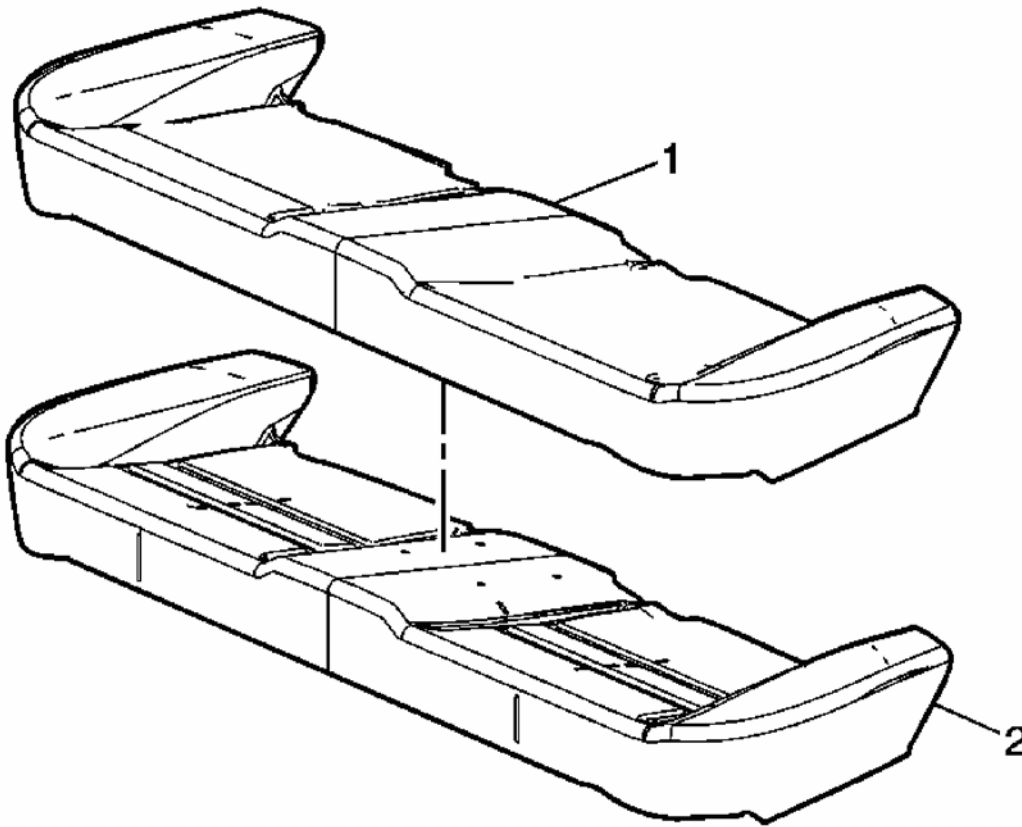


Fig. 74: Replacing Rear Seat Cushion Cover And Pad
Courtesy of GENERAL MOTORS CORP.

Seat Cushion Cover and Pad Replacement - Rear (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications .	
Preliminary Procedures: Remove the rear seat cushion. Refer to Seat Cushion Replacement - Rear (Impala) or Seat Cushion Replacement - Rear (Monte Carlo) .	
1	Cover, Rear Seat Cushion Tip: Remove the hog rings that secure the rear seat cushion cover to the pad.
2	Pad, Rear Seat Cushion

REAR SEAT BACK REPLACEMENT (IMPALA)

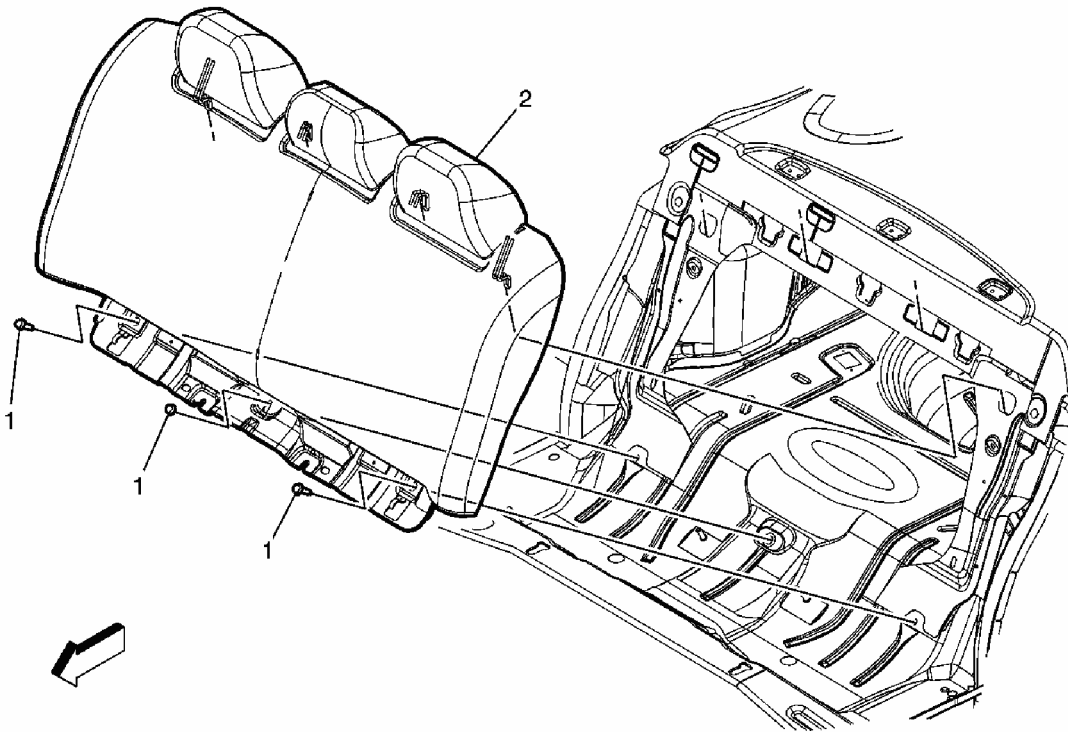


Fig. 75: Replacing Rear Seat Back
 Courtesy of GENERAL MOTORS CORP.

Seat Back Replacement - Rear (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> . Preliminary Procedure: Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u> .	
1	Rear Seat Back Cushion Bolts (Qty: 3) Tighten: 45 N.m (33 lb ft)
2	Rear Seat Back Cushion Nut Tighten: 45 N.m (33 lb ft)
3	Rear Seat Back Cushion Tip: Lift upward to clear the retaining hooks on the seat back to remove.

REAR SEAT BACK REPLACEMENT (MONTE CARLO)

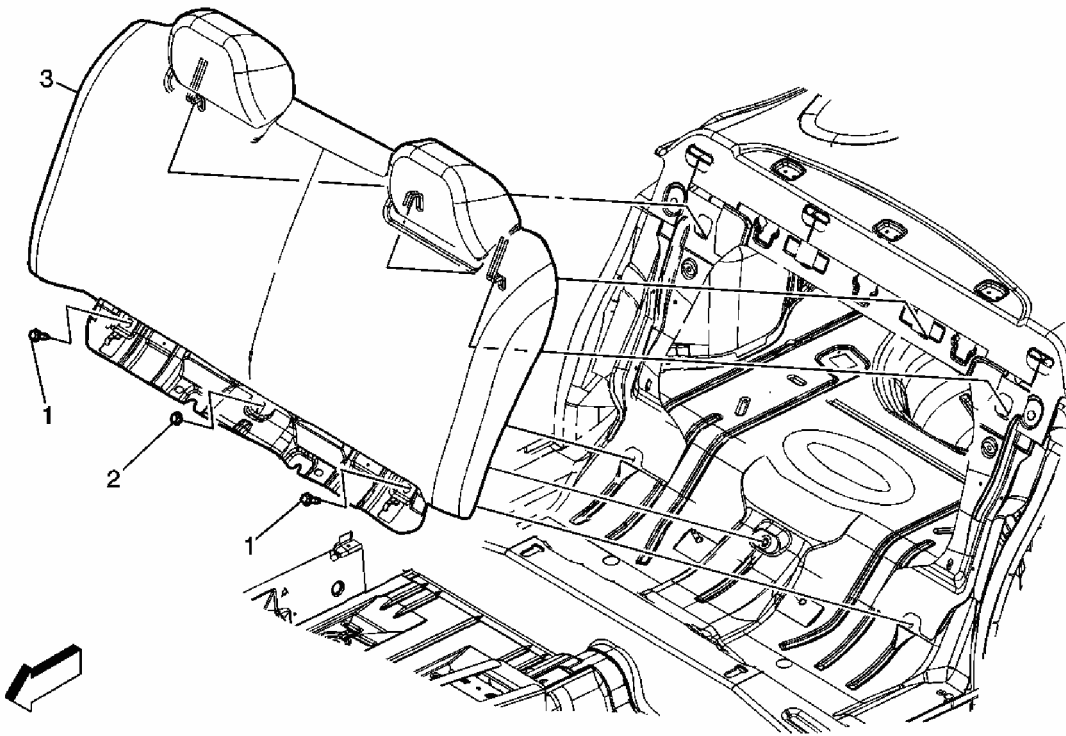


Fig. 76: Replacing Rear Seat Back
 Courtesy of GENERAL MOTORS CORP.

Seat Back Replacement - Rear (Monte Carlo)

Callout	Component Name
NOTE: Refer to Fastener Notice .	
Fastener Tightening Specifications: Refer to Fastener Tightening Specifications . Preliminary Procedure: Remove the rear seat cushion. Refer to Seat Cushion Replacement - Rear (Impala) or Seat Cushion Replacement - Rear (Monte Carlo) .	
1	Bolt, Rear Seat Back Cushion (Qty: 2) Tighten: 45 N.m (33 lb ft)
2	Nut, Rear Seat Back Cushion Tighten: 45 N.m (33 lb ft)
3	Cushion, Rear Seat Back Tip: Lift upward to clear the retaining hooks on the seat back to remove.

REAR SEAT BACK COVER AND PAD REPLACEMENT (IMPALA)

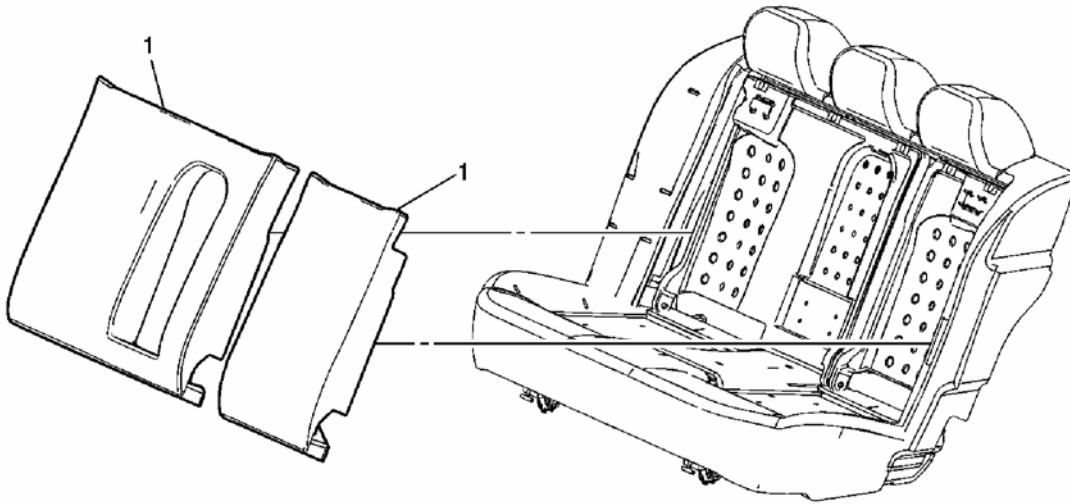


Fig. 77: Replacing Rear Seat Back Cover and Pad
 Courtesy of GENERAL MOTORS CORP.

Seat Back Cover and Pad Replacement - Rear (Impala)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedures	
1. Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u>. 2. Remove the rear seat back cushion. Refer to <u>Seat Back Replacement - Rear (Impala)</u> or <u>Seat Back Replacement - Rear (Monte Carlo)</u>. 3. Remove the rear seat center shoulder belt assemblies. Refer to <u>Seat Belt Buckle Replacement - Rear</u>. 4. Remove the rear seat armrest. Refer to <u>Armrest Replacement - Rear Seat (Impala)</u> or <u>Armrest Replacement - Rear Seat (Monte Carlo)</u>.	
1	Cover, Rear Seat Back Cushion Tip: 1. Fold the rear seat back cushion panels forward enough to gain access to the retainers for the seat back cushion cover. 2. Remove the rear seat back cushion cover and pad from the rear seat back panels. 3. The seat back cushion cover and pad are serviced as an assembly.

REAR SEAT BACK COVER AND PAD REPLACEMENT (MONTE CARLO)

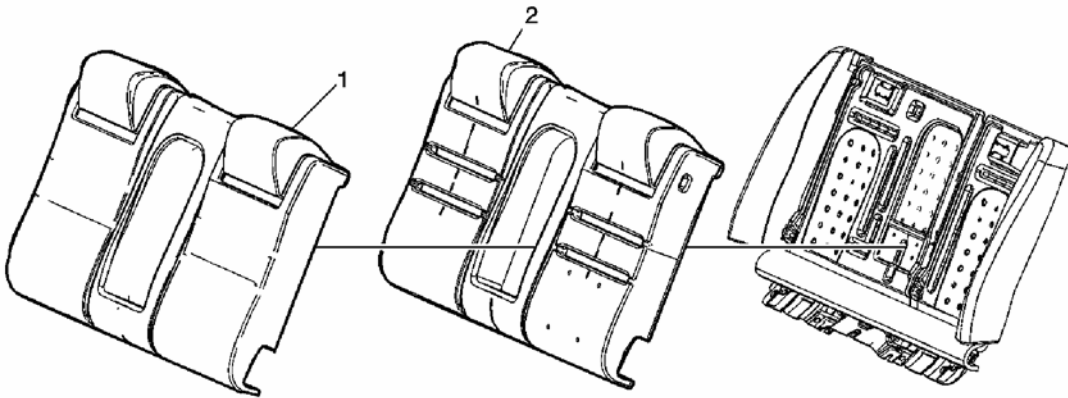


Fig. 78: Replacing Rear Seat Back Cover And Pad
 Courtesy of GENERAL MOTORS CORP.

Seat Back Cover and Pad Replacement - Rear (Monte Carlo)

Callout	Component Name
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedures	
1. Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u>. 2. Remove the rear seat back cushion. Refer to <u>Seat Back Replacement - Rear (Impala)</u> or <u>Seat Back Replacement - Rear (Monte Carlo)</u>. 3. Remove the rear seat center shoulder belt assemblies. Refer to <u>Seat Belt Buckle Replacement - Rear</u>. 4. Remove the rear seat armrest. Refer to <u>Armrest Replacement - Rear Seat (Impala)</u> or <u>Armrest Replacement - Rear Seat (Monte Carlo)</u>.	
1	Cover, Rear Seat Back Cushion Tip: 1. Fold the rear seat back cushion panels forward enough to gain access to the retainers for the seat back cushion cover. 2. Remove the rear seat back cushion cover and pad from the rear seat back panels. 3. Remove the rear seat back cushion cover from the pad by pulling away from the pad to release the hook and look fasteners.
2	Pad, Rear Seat Back Cushion

REAR SPLIT FOLDING SEAT BACK BOLSTER REPLACEMENT (MONTE CARLO)

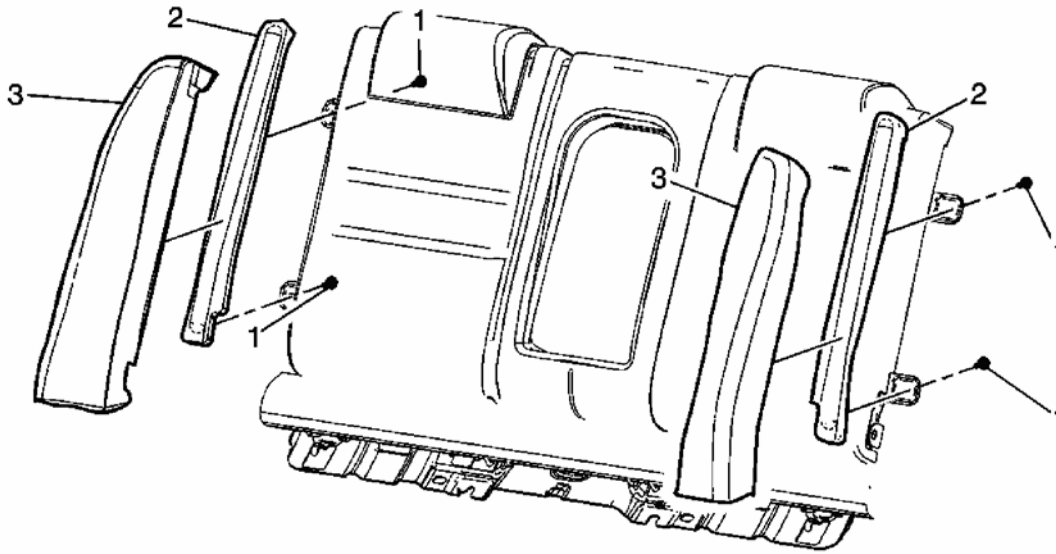


Fig. 79: Replacing Rear Split Folding Seat Back Bolster
 Courtesy of GENERAL MOTORS CORP.

Seat Back Bolster Replacement - Rear Split Folding (Monte Carlo)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedures	
1. Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u> .	
2. Remove the rear seat back cushion. Refer to <u>Seat Back Replacement - Rear (Impala)</u> or <u>Seat Back Replacement - Rear (Monte Carlo)</u> .	
1	Rear Seat Back Bolster Screws (Qty: 4) Tighten: 3 N.m (25 lb in)
2	Rear Seat Back Bolster Cover
3	Rear Seat Back Bolster Pad

REAR SEAT ARMREST REPLACEMENT (IMPALA)

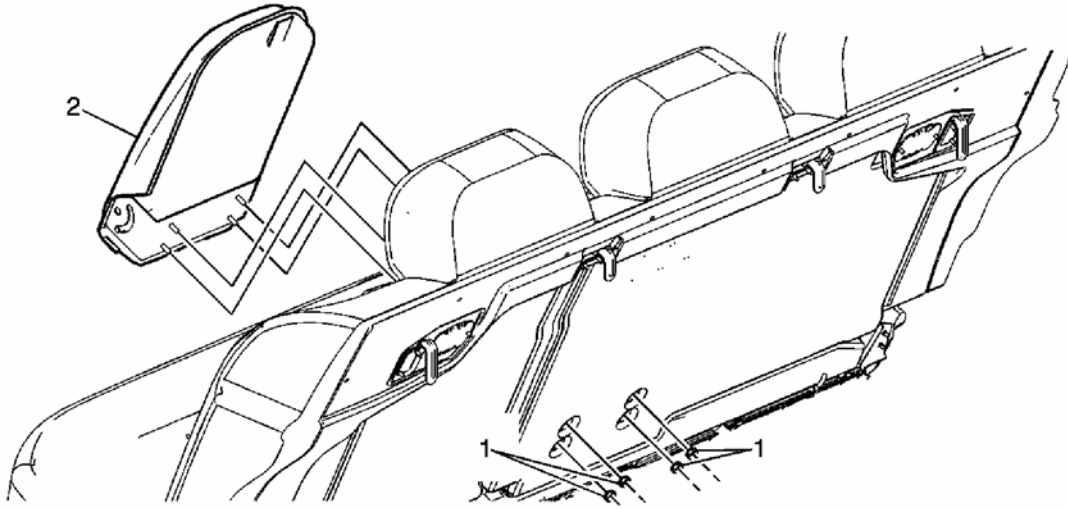


Fig. 80: Replacing Rear Seat Armrest
 Courtesy of GENERAL MOTORS CORP.

Armrest Replacement - Rear Seat (Impala)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
1	Nut, Rear Seat Armrest (Qty: 4) Tip: Fold the rear seat back cushion forward to gain access to the nuts. Tighten: 3 N.m (25 lb in)
2	Armrest Assembly, Rear Seat

REAR SEAT ARMREST REPLACEMENT (MONTE CARLO)

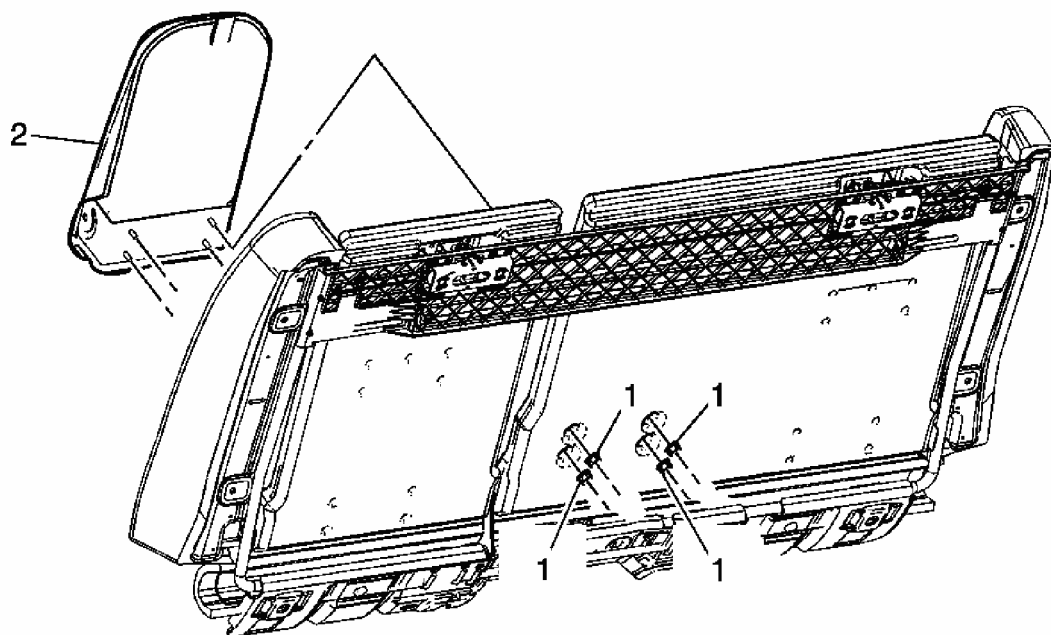


Fig. 81: Replacing Rear Seat Armrest
 Courtesy of GENERAL MOTORS CORP.

Armrest Replacement - Rear Seat (Monte Carlo)

Callout	Component Name
NOTE: Refer to <u>Fastener Notice</u> .	
Fastener Tightening Specifications: Refer to <u>Fastener Tightening Specifications</u> .	
Preliminary Procedures	
1. Remove the rear seat cushion. Refer to <u>Seat Cushion Replacement - Rear (Impala)</u> or <u>Seat Cushion Replacement - Rear (Monte Carlo)</u> .	
2. Remove the rear seat back cushion. Refer to <u>Seat Back Replacement - Rear (Impala)</u> or <u>Seat Back Replacement - Rear (Monte Carlo)</u> .	
3. Remove the rear seat back cushion cover and pad. Refer to <u>Seat Back Cover and Pad Replacement - Rear (Impala)</u> or <u>Seat Back Cover and Pad Replacement - Rear (Monte Carlo)</u> .	
1	Nut, Rear Seat Armrest (Qty: 4) Tip: Fold the rear seat back cushion forward to gain access to the nuts. Tighten: 3 N.m (25 lb in)

DESCRIPTION AND OPERATION

POWER SEATS SYSTEM DESCRIPTION AND OPERATION

The driver and passenger power seat systems each consist of the following components:

- Seat Adjuster Switch
- Seat Horizontal Motor
- Seat Front Vertical Motor
- Seat Rear Vertical Motor
- Seat Recline Motor
- SEATS Circuit Breaker 30 A

Seat Adjuster Switch

The seat adjuster switches provide both power and ground to the selected seat motors. Battery positive voltage is supplied at all times to the driver and passenger seat adjuster switches from the SEATS Circuit Breaker located in the left rear fuse block. Both seat adjuster switches are grounded through the switch ground circuit and G307.

Motors

All of the seat motors operate independently of each other. Each motor contains an electronic circuit breaker (PTC) that opens in the event of a circuit overload and will reset only after voltage has been removed from the circuit. There are four seat position motors. These are the horizontal motor, front vertical motor, rear vertical motor, and the seat back recline motor. The horizontal motor moves the entire seat forward and rearward. The seat vertical motors may operate independently to tilt the front or rear of the seat cushion up or down. Both motors can also run simultaneously to move the entire seat up or down. The recline motor moves the angle of the seat back forward or rearward.

Horizontal

When the seat switch is operated to move the entire seat forward, battery positive voltage is applied through the switch contacts and the horizontal motor forward control circuit to the motor. The motor is grounded through the horizontal motor rearward switch contacts and the horizontal motor rearward control circuit to the motor. The motor runs in order to drive the entire seat forward until the switch is released. Moving the entire seat rearward works similarly to moving the entire seat forward, except that battery positive voltage and ground are applied on opposite circuits causing the motor to run in the opposite direction.

Rear Vertical

When the seat switch is operated to tilt the rear of the seat cushion up, battery positive voltage is applied through the switch contacts and the rear vertical motor up control circuit to the rear vertical motor. The motor is grounded through the down switch contacts and the rear vertical motor down control circuit to the motor. The motor runs in order to drive the rear of the seat cushion up until the switch is released. Tilting the rear of the seat cushion down works similarly to tilting the rear of the seat cushion up, except that battery positive voltage and ground are applied on opposite circuits causing the motor to run in the opposite direction.

Front Vertical

When the seat switch is operated to tilt the front of the seat cushion up, battery positive voltage is applied through the switch contacts and the front vertical motor up control circuit to the motor. The motor is grounded through the down switch contacts and the front vertical motor down control circuit to the motor. The motor runs in order to drive the front of the seat cushion up until the switch is released. Tilting the front of the seat cushion down works similarly to tilting the front of the seat cushion up, except that battery positive voltage and ground are applied on opposite circuits causing the motor to run in the opposite direction.

Entire Seat Up or Down

When the seat switch is operated in order to move the entire seat to the up position, battery positive voltage is simultaneously applied through the front and rear vertical motor up switch contacts and the front and rear vertical motor up control circuits to both vertical motors. The motors are grounded through the down switch contacts and the front and rear vertical motor down control circuits to both vertical motors. Both motors run simultaneously in order to drive the entire seat up until the switch is released. Moving the entire seat down works similarly to moving the entire seat up, except that battery positive voltage and ground are applied on the opposite circuits causing the motors to run in the opposite direction.

Recline

When the seat recline switch is operated to move the seat back forward, battery positive voltage is applied through the switch contacts and the recline motor forward control circuit to the motor. The motor is grounded through the rearward switch contacts and the recline motor rearward control circuit to the motor. The motor runs in order to move the seat back forward until the switch is released. Moving the seat back rearward works similarly to moving the seat back forward, except that battery positive voltage and ground are applied on the opposite circuits causing the motor to run in the opposite direction.

HEATED SEATS DESCRIPTION AND OPERATION

The front heated seat system consists of the following components.

- Left heated seat switch
- Right heated seat switch

- Heated seat module
- Left seat cushion heater element
- Left seat back heater element
- Left seat temperature sensor
- Right seat cushion heater element
- Right seat back heater element
- Right seat temperature sensor
- Climate Control Panel (CCP)
- HTD SEAT MOD 10 A

Power and Ground

Battery positive voltage is supplied at all times to the heated seat module from the HTD SEAT MOD fuse located in the underhood fuse block. This voltage is used by the modules to supply power to the seat heating elements. The module is grounded through the module ground circuits and G?

Heated Seat Operation

The driver and passenger heated seats are controlled by a single heated seat module that is located under the driver seat cushion. Both heated seats are controlled by separate heated seat switches that are located in the climate control panel (CCP). When a heated seat switch is pressed, the CCP sends a GMLAN message via the serial data line to the heated seat module indicating the heated seat command. In response to this signal, the heated seat module then applies battery positive voltage through the element supply voltage circuit to the appropriate seat heating elements. The heated seat module then sends a GMLAN message back to the CCP to either illuminate or turn off the appropriate temperature indicator.

Temperature Regulation

When the ignition is turned to the ON position, the heated seats will initialize in the OFF state. With each activation of the heated seat switch, the heated seat module will cycle the temperature setting in the following manner: HIGH, LOW, and OFF.

The heated seat system is designed in order to warm the seat cushion and seat back to approximately 42°C (107.6°F) when in the high heat position, and 37°C (98.6°F) when in the low heat position. The heated seat module monitors the seat temperature through the temperature sensor signal circuit and the temperature sensor (thermistor) that is located in the seat cushion. The temperature sensor is a variable resistor, its resistance changes as the temperature of the seat changes. When the temperature sensor resistance indicates to the heated seat module that the seat has reached the desired temperature, the module opens the ground path of the seat heating elements through the heated seat element control circuit. The

module will then cycle the element control circuit open and closed in order to maintain the desired temperature.

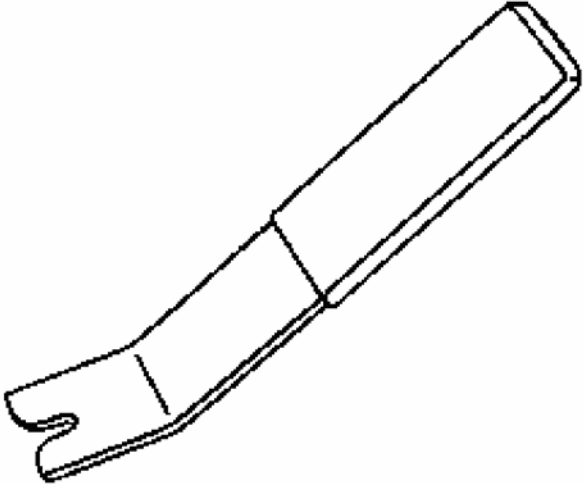
Load Management

The load-shed operation is a means of reducing vehicle electrical loads during a low voltage or low battery state of charge (SOC) condition. During certain load-shed conditions, all heated seat functions will be disabled. Refer to **Load Shed System Description and Operation** .

SPECIAL TOOLS AND EQUIPMENT

SPECIAL TOOLS

Special Tools

Illustration	Tool Number/Description
	J 38778 Door Trim Pad and Garnish Clip Remover