

2007 ACCESSORIES & EQUIPMENT

Power Seats - H3

SPECIFICATIONS

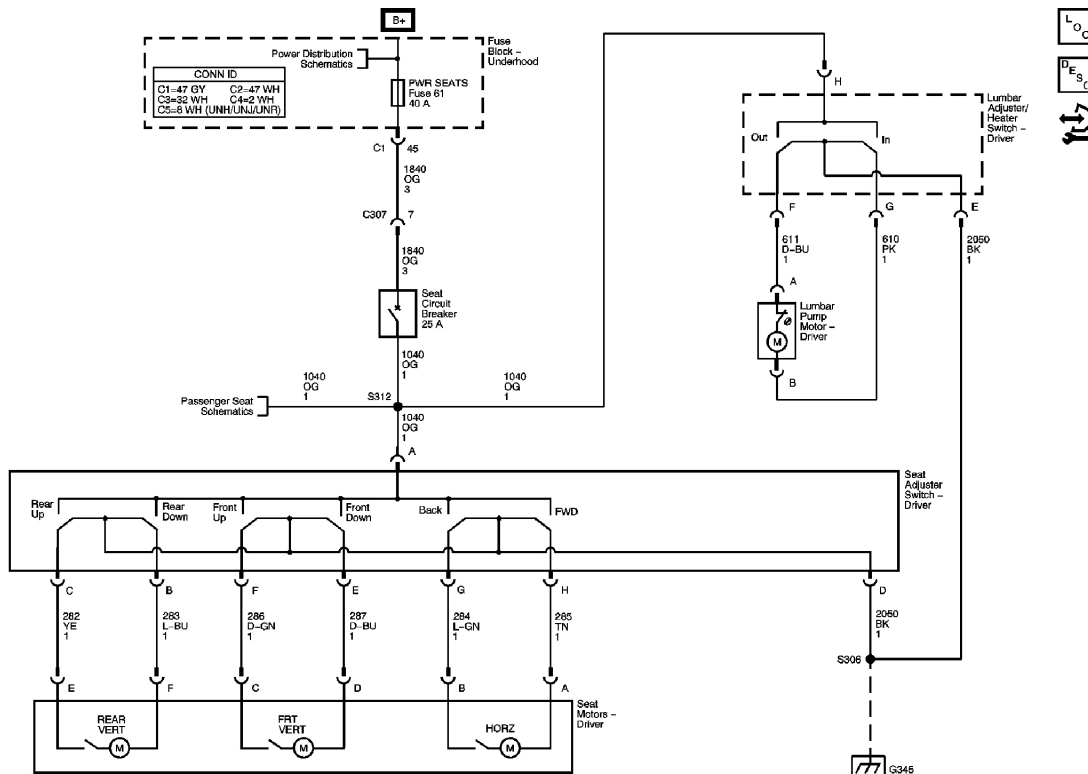
FASTENER TIGHTENING SPECIFICATIONS

Fastener Tightening Specifications

Application	Specification	
	Metric	English
Front Seat Switch Screw	2 N.m	18 lb in

SCHEMATIC AND ROUTING DIAGRAMS

DRIVER SEAT SCHEMATICS

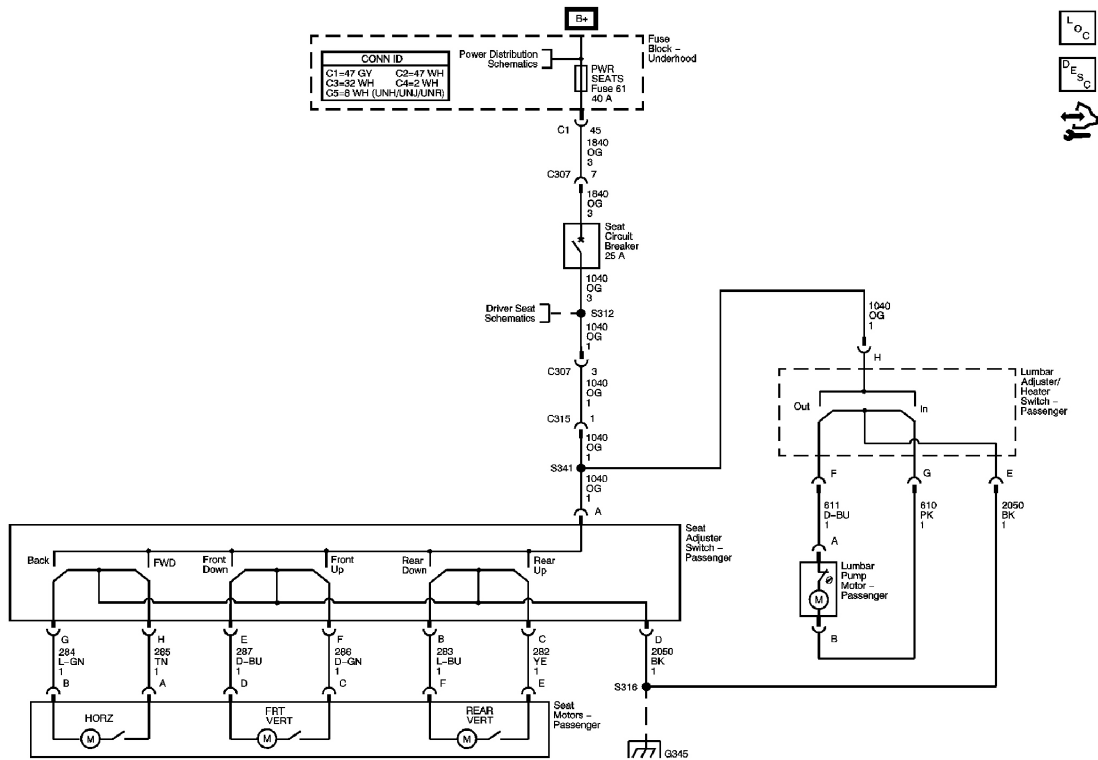


**Fig. 1: Driver Seat Schematic**  
 Courtesy of GENERAL MOTORS CORP.

# 2007 Hummer H3

## 2007 ACCESSORIES & EQUIPMENT Power Seats - H3

### PASSENGER SEAT SCHEMATICS



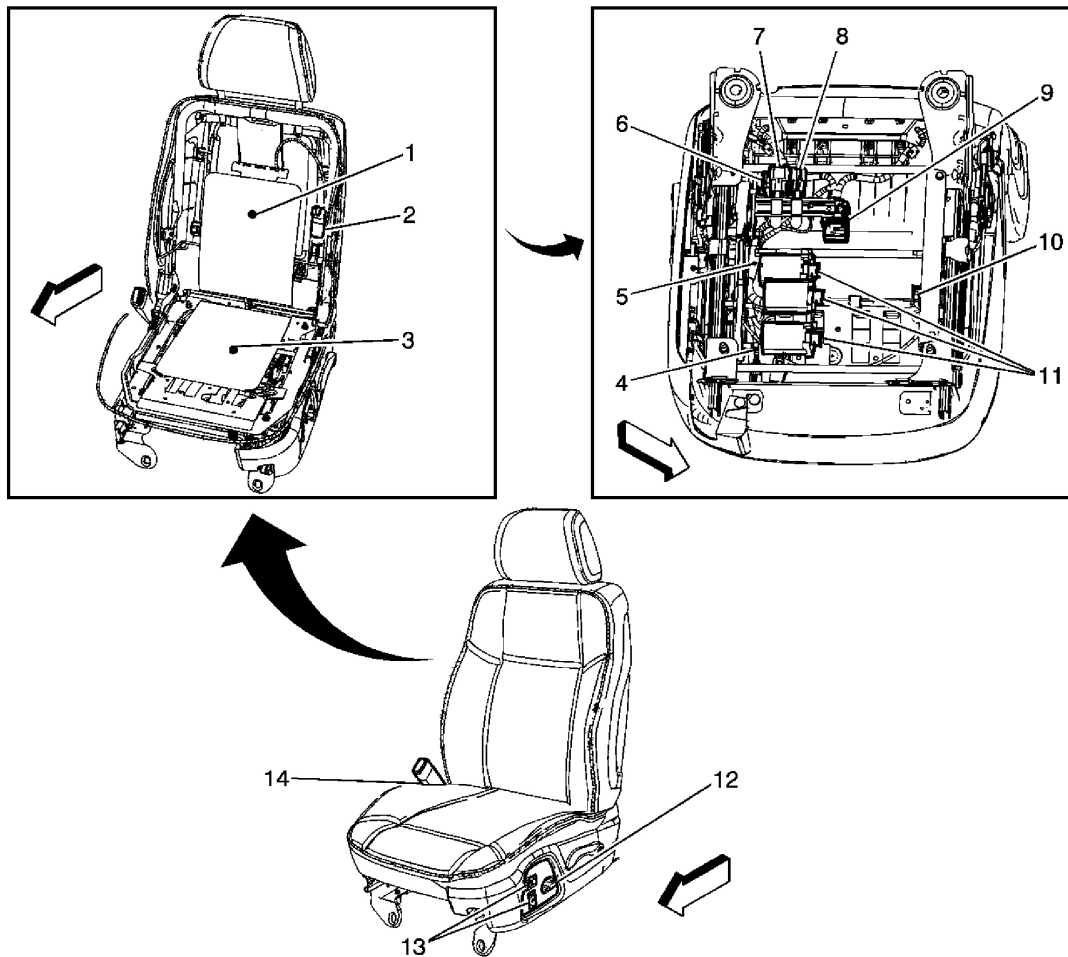
**Fig. 2: Passenger Seat Schematic**  
Courtesy of GENERAL MOTORS CORP.

### COMPONENT LOCATOR

### POWER SEAT COMPONENT VIEWS

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**Fig. 3: Identifying Driver Seat Components**  
 Courtesy of GENERAL MOTORS CORP.

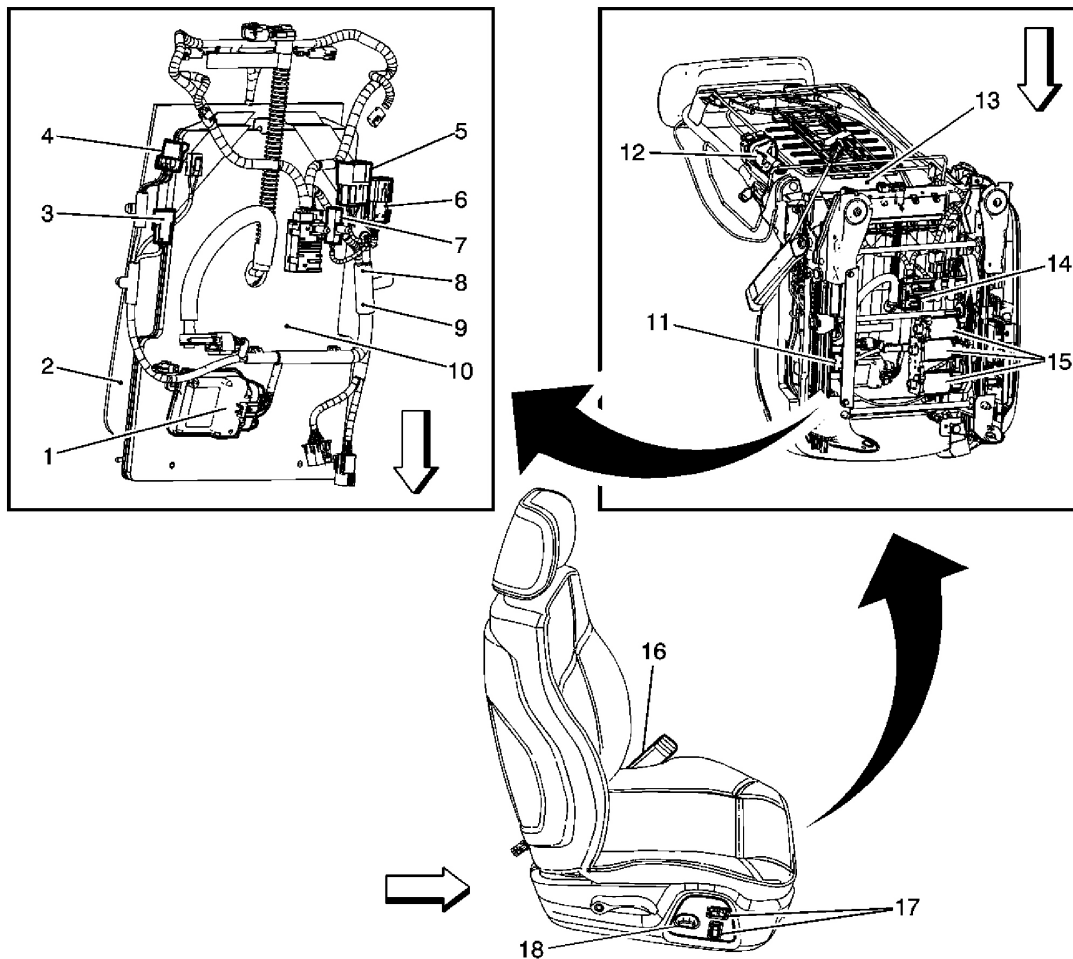
#### Callouts For Fig. 3

Callout	Component Name
1	Heater Element Seat Back - Driver (KA1)
2	Lumbar Pump Motor - Driver (AG1)
3	Heater Element Seat Cushion - Driver (KA1)
4	S306 (AG1)
5	S312 (AG1)
6	Seat Circuit Breaker (AG1)
7	C307 (AG1)
8	C308
9	Heated Seat Module - Driver (KA1)

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10	Inflatable Restraint Seat Position Sensor (SPS) - Left
11	Seat Motors - Driver (AG1)
12	Seat Adjuster Switch - Driver (AG1)
13	Lumbar Adjuster/Heater Switch - Driver (AG1)
14	Seat Belt Buckle - Driver



**Fig. 4: Identifying Passenger Seat Components**  
 Courtesy of GENERAL MOTORS CORP.

#### Callouts For Fig. 4

Callout	Component Name
1	Inflatable Restraint Passenger Presence System (PPS) Module
2	Heater Element Seat Cushion - Passenger (KA1)
3	Seat Belt Buckle - Passenger C1

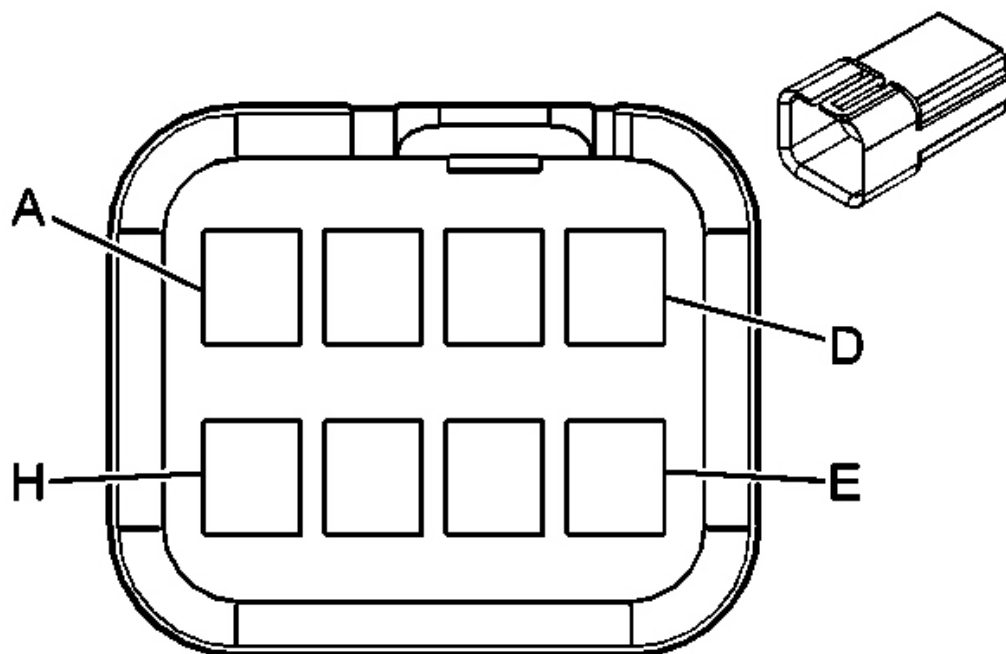
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4	Seat Belt Buckle - Passenger C2
5	C320
6	C315
7	C318 (AG2)
8	S341 (AG2)
9	S316 (AG2)
10	Inflatable Restraint Passenger Presence System (PPS)
11	Inflatable Restraint Seat Position Sensor (SPS) - Right
12	Lumbar Pump Motor - Passenger (AG2)
13	Heater Element Seat Back - Passenger (KA1)
14	Heated Seat Module - Passenger (KA1)
15	Seat Motors - Passenger (AG2)
16	Seat Belt Buckle - Passenger
17	Lumbar Adjuster/Heater Switch - Passenger (AG2)
18	Seat Adjuster Switch - Passenger (AG2)

#### POWER SEAT CONNECTOR END VIEWS

Lumbar Adjuster/Heater Switch - Driver (AG1)



**Fig. 5: Lumbar Adjuster/Heater Switch - Driver (AG1) Connector End View**  
 Courtesy of GENERAL MOTORS CORP.

### Driver (AG1) Lumbar Adjuster/Heater Switch Connector Parts Information

#### Connector Part Information

- OEM: 12045688
- Service: 12101827
- Description: 8-Way M Metri-Pack 150 Series (BK)

#### Terminal Part Information

- Pins: A-C
- Terminal/Tray: 12059894/5
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit
- Pins: E-H

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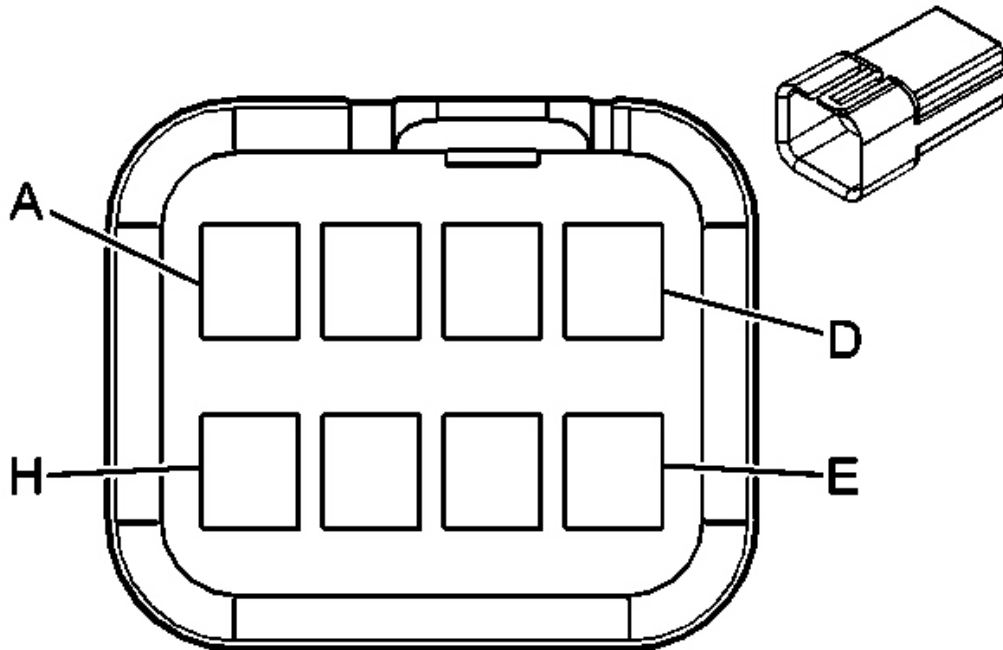
### 2007 ACCESSORIES & EQUIPMENT Power Seats - H3

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

#### Driver (AG1) Lumbar Adjuster/Heater Switch Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	BK	2050	Ground
B	PK	1501	Driver Heated Seat High/Low Signal
C	BN	141	Ignition 3 Voltage
D	-	-	Not Used
E	BK	2050	Ground
F	D-BU	611	Driver Seat Lumbar Motor Forward Control
G	PK	610	Driver Seat Lumbar Motor Rearward Control
H	OG	1040	Battery Positive Voltage

#### Lumbar Adjuster/Heater Switch - Passenger (AG2)



**Fig. 6: Lumbar Adjuster/Heater Switch - Passenger (AG2) Connector End Views**  
Courtesy of GENERAL MOTORS CORP.

### **Passenger (AG2) Lumbar Adjuster/Heater Switch Connector Parts Information**

#### **Connector Part Information**

- OEM: 12045688
- Service: 12101827
- Description: 8-Way M Metri-Pack 150 Series (BK)

#### **Terminal Part Information**

- Pins: A-D
- Terminal/Tray: 12059894/5
- Core/Insulation Crimp: See Terminal Kit
- Release Tool/Test Probe: See Terminal Kit
  
- Pins: E-H



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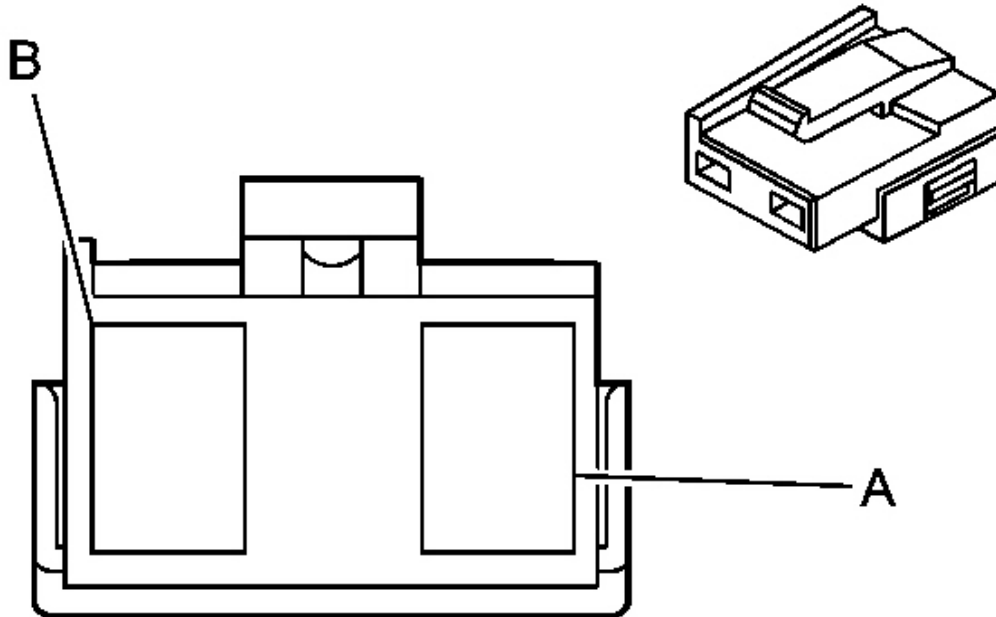
## 2007 ACCESSORIES &amp; EQUIPMENT Power Seats - H3

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

**Passenger (AG2) Lumbar Adjuster/Heater Switch Connector Terminal Identification**

<b>Pin</b>	<b>Wire Color</b>	<b>Circuit No.</b>	<b>Function</b>
A	BK	2050	Ground
B	PK	1501	Passenger Heated Seat High/Low Signal
C	BN	341	Ignition 3 Voltage
D	L-BU	2179	Seat Belt Switch - Right Signal
E	BK	2050	Ground
F	D-BU	611	Driver Seat Lumbar Motor Forward Control
G	PK	610	Passenger Seat Lumbar Motor Rearward Control
H	OG	1040	Battery Positive Voltage

**Lumbar Pump Motor - Driver (AG1)**



**Fig. 7: Lumbar Pump Motor - Driver (AG1) Connector End Views**  
 Courtesy of GENERAL MOTORS CORP.

**Driver (AG1) Lumbar Pump Motor Connector Parts Information**

**Connector Part Information**

- OEM: 12034343
- Service: 12101821
- Description: 2-Way F Metri-Pack 280 Series (BK)

**Terminal Part Information**

- Terminal/Tray: 12034046/2
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

**Driver (AG1) Lumbar Pump Motor Connector Terminal Identification**

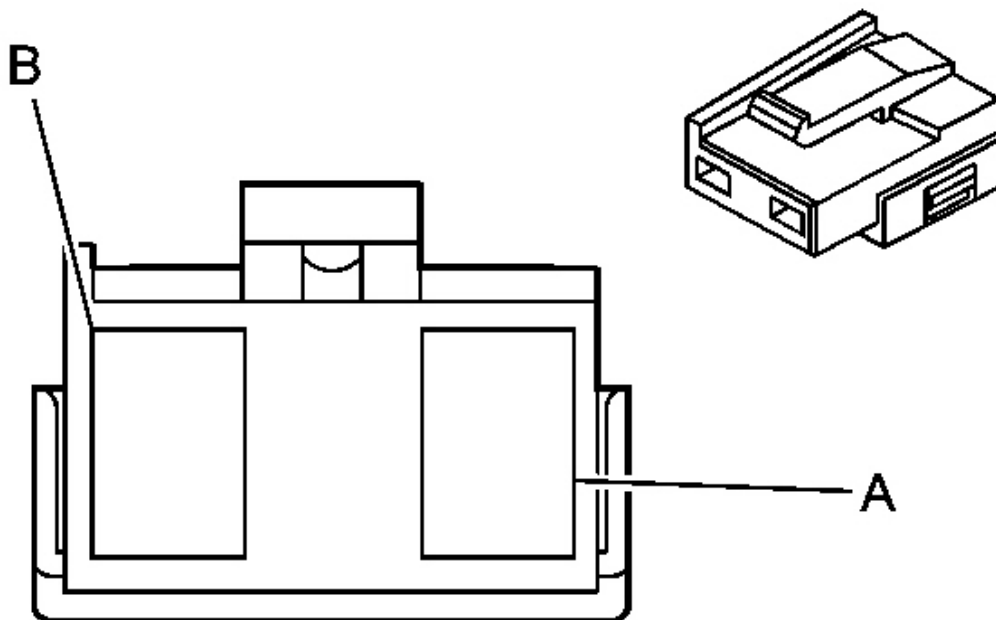
Pin	Wire Color	Circuit No.	Function

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A	D-BU	611	Driver Seat Lumbar Motor Forward Control
B	PK	610	Driver Seat Lumbar Motor Rearward Control

#### Lumbar Pump Motor - Passenger (AG2)



**Fig. 8: Lumbar Pump Motor - Passenger (AG2) Connector End Views**  
Courtesy of GENERAL MOTORS CORP.

#### Passenger (AG2) Lumbar Pump Motor Connector Parts Information

##### Connector Part Information

- OEM: 12034343
- Service: 12101821
- Description: 2-Way F Metri-Pack 280 Series (BK)

##### Terminal Part Information

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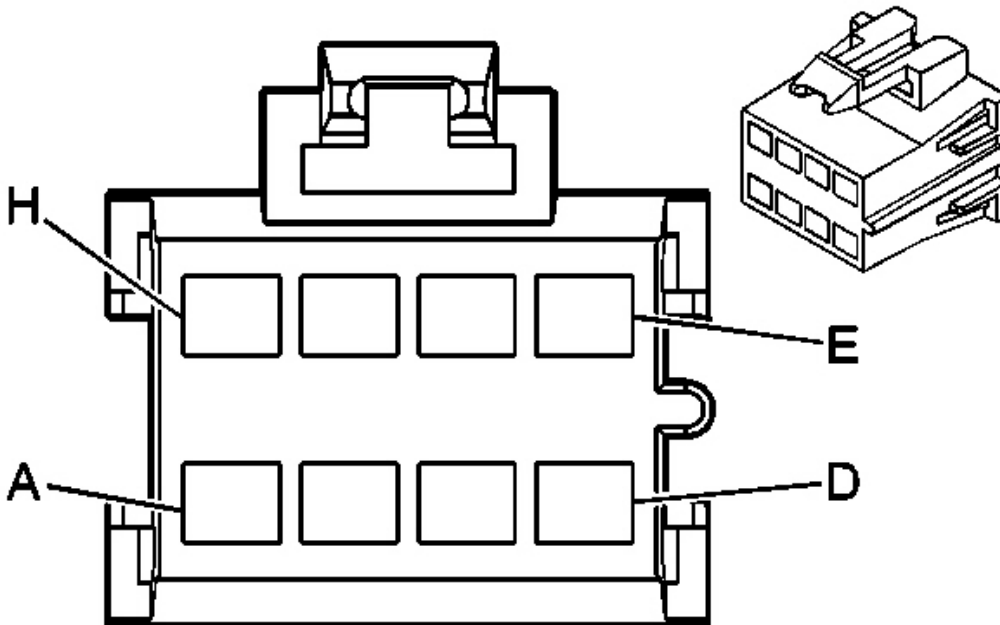
### 2007 ACCESSORIES & EQUIPMENT Power Seats - H3

- Terminal/Tray: 12034046/2
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

#### Passenger (AG2) Lumbar Pump Motor Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	D-BU	611	Passenger Seat Lumbar Motor Forward Control
B	PK	610	Passenger Seat Lumbar Motor Rearward Control

#### Seat Adjuster Switch - Driver (AG1)



**Fig. 9: Driver Seat Adjuster Switch (AG1) Connector End Views**  
Courtesy of GENERAL MOTORS CORP.

#### Driver Power Seat Adjuster Switch (AG1) Connector Parts Information

##### Connector Part Information

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- OEM: 12064998
- Service: 15306189
- Description: 8-Way F Metri-Pack 280 Series (BK)

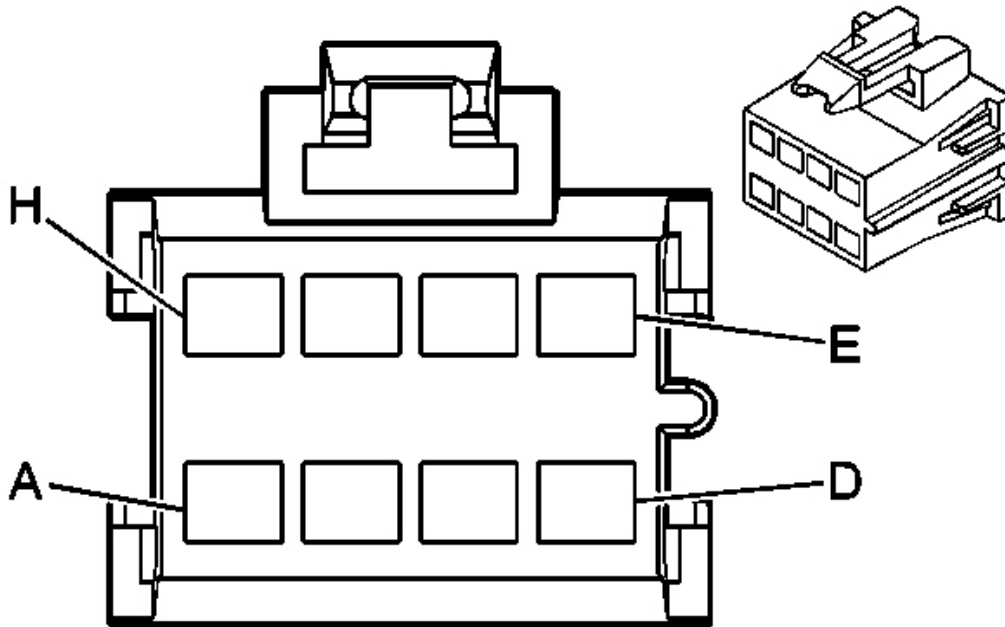
#### Terminal Part Information

- Terminal/Tray: 12034046/2
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

#### Driver Power Seat Switch (AG1) Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	OG	1040	Battery Positive Voltage
B	L-BU	283	Driver Seat Rear Vertical Motor Down Control
C	YE	282	Driver Seat Rear Vertical Motor Up Control
D	BK	2050	Ground
E	D-BU	287	Driver Seat Front Vertical Motor Down Control
F	D-GN	286	Driver Seat Front Vertical Motor Up Control
G	L-GN	284	Driver Seat Horizontal Motor Forward Control
H	TN	285	Driver Seat Horizontal Motor Rearward Control

#### Seat Adjuster Switch - Passenger (AG2)



**Fig. 10: Seat Adjuster Switch - Passenger (AG2) Connector End Views**  
 Courtesy of GENERAL MOTORS CORP.

**Passenger Power Seat Adjuster Switch (AG2) Connector Parts Information**

**Connector Part Information**

- OEM: 12064998
- Service: 15306189
- Description: 8-Way F Metri-Pack 280 Series (BK)

**Terminal Part Information**

- Terminal/Tray: 12034046/2
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-4A (PU)

**Passenger Power Seat Switch (AG2) Connector Terminal Identification**

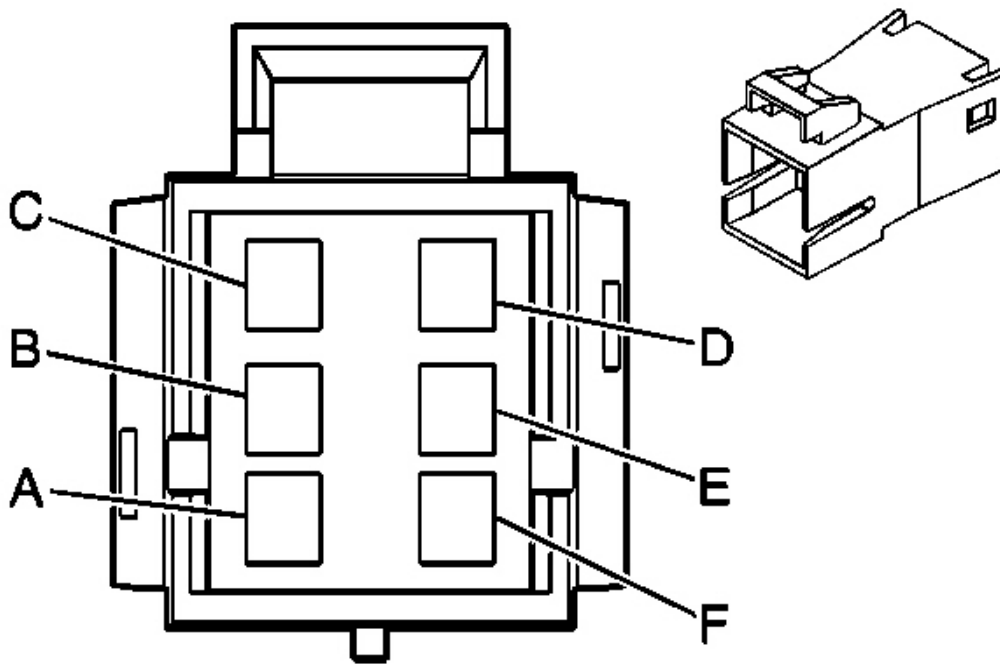
Pin	Wire Color	Circuit No.	Function
A	OG	1040	Battery Positive Voltage

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B	L-BU	283	Passenger Seat Rear Vertical Motor Down Control
C	YE	282	Passenger Seat Rear Vertical Motor Up Control
D	BK	2050	Ground
E	D-BU	287	Passenger Seat Front Vertical Motor Down Control
F	D-GN	286	Passenger Seat Front Vertical Motor Up Control
G	L-GN	284	Passenger Seat Horizontal Motor Rearward Control
H	TN	285	Passenger Seat Horizontal Motor Forward Control

Seat Motors - Driver (AG1)



**Fig. 11: Seat Motors - Driver (AG1) Connector End Views**

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Courtesy of **GENERAL MOTORS CORP.**

### Driver Power Seat Motor Connector Parts Information

#### Connector Part Information

- OEM: 12064754
- Service: 15305872
- Description: 6-Way M Metri-Pack 280 Series (BK)

#### Terminal Part Information

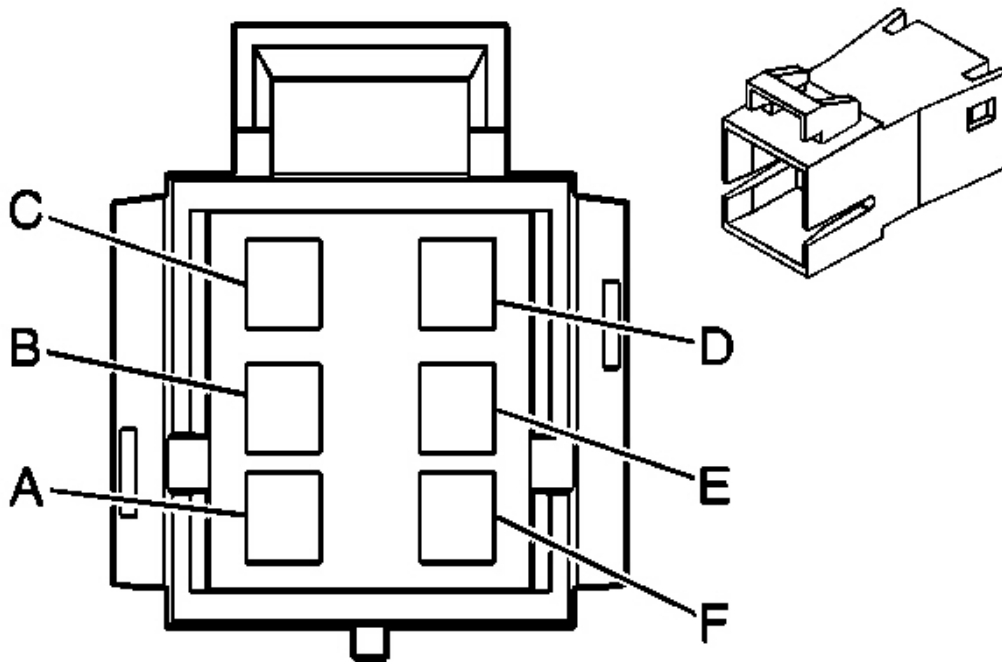
- Terminal/Tray: 12034047/2
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-5 (PU)

### Driver (AG1) Seat Motors Connector Terminal Identification

Pin	Wire Color	Circuit No.	Function
A	TN	285	Driver Seat Horizontal Motor Forward Control
B	L-GN	284	Driver Seat Horizontal Motor Rearward Control
C	D-GN	286	Driver Seat Front Vertical Motor Up Control
D	D-BU	287	Driver Seat Front Vertical Motor Down Control
E	YE	282	Driver Seat Rear Vertical Motor Up Control
F	L-BU	283	Driver Seat Rear Vertical Motor Down Control

Seat Motors - Passenger (AG2)





**Fig. 12: Seat Motors - Passenger (AG2) Connector End Views**  
 Courtesy of GENERAL MOTORS CORP.

**Passenger Power Seat Motor Connector Parts Information**

**Connector Part Information**

- OEM: 12064754
- Service: 15305872
- Description: 6-Way M Metri-Pack 280 Series (BK)

**Terminal Part Information**

- Terminal/Tray: 12034047/2
- Core/Insulation Crimp: C/D
- Release Tool/Test Probe: 12094430/J-35616-5 (PU)

**Passenger (AG2) Seat Motors Connector Terminal Identification**

Pin	Wire Color	Circuit No.	Function
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A	TN	285	Passenger Seat Horizontal Motor Forward Control
B	L-GN	284	Passenger Seat Horizontal Motor Rearward Control
C	D-GN	286	Passenger Seat Front Vertical Motor Up Control
D	D-BU	287	Passenger Seat Front Vertical Motor Down Control
E	YE	282	Passenger Seat Rear Vertical Motor Up Control
F	L-BU	283	Passenger Seat Rear Vertical Motor Down Control

## DIAGNOSTIC INFORMATION AND PROCEDURES

### DIAGNOSTIC STARTING POINT - SEATS

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

### SYMPTOMS - POWER SEATS

**IMPORTANT:** Review the system description in order to familiarize yourself with the system functions. Refer to one of the following descriptions:

- **Lumbar Switch Replacement**
- **Power Seats System Description and Operation**

### Visual/Physical Inspection

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

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- Inspect the power seat for proper mechanical operation.

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

- **Lumbar Support Inoperative**
- **Power Seat Inoperative**

#### LUMBAR SUPPORT INOPERATIVE

#### Lumbar Support Inoperative

Step	Action	Yes	No
<b>Schematic Reference: <u>Driver Seat Schematics</u> and <u>Passenger Seat Schematics</u></b> <b>Connector End View Reference: <u>Power Seat Connector End Views</u></b> DEFINITION: The power lumbar function is inoperative, all other power seat functions operate normal.			
1	Did you review the Power Seat System Description and Operation and perform the necessary inspections?	Go to <b>Step 2</b>	Go to
2	Attempt to operate all of the power seat adjuster motors through their full range of adjustment. Do all of the power seat adjuster motors operate properly?	Go to <b><u>Testing for Intermittent Conditions and Poor Connections</u></b>	Go to <b>Step 3</b>
3	Are all of the power seat adjuster motors inoperative?	Go to <b><u>Power Seat Inoperative</u></b>	Go to <b>Step 4</b>
4	1. Disconnect the lumbar adjuster motor connector. 2. Connect a test lamp across the motor control circuit terminals. 3. Press the power lumbar switch in both		

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	directions. Does the test lamp illuminate when the switch is pressed in both directions?	Go to <b>Step 6</b>	Go to <b>Step 5</b>
5	1. Disconnect the power lumbar switch connector. 2. Test the lumbar adjuster motor control circuits for an open or short to ground. Refer to <b><u>Circuit Testing</u></b> and <b><u>Wiring Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 10</b>	Go to <b>Step 8</b>
6	Inspect for poor connections at the lumbar adjuster motor. Refer to <b><u>Testing for Intermittent Conditions and Poor Connections</u></b> and <b><u>Connector Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 10</b>	Go to <b>Step 7</b>
7	Replace the lumbar adjuster motor. Refer to <b><u>Front Seat Lumbar Support Replacement</u></b> . Is the repair complete?	Go to <b>Step 10</b>	-
8	Inspect for poor connections at the power lumbar switch. Refer to <b><u>Testing for Intermittent Conditions and Poor Connections</u></b> and <b><u>Connector Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 10</b>	Go to <b>Step 9</b>
9	Replace the power lumbar switch. Refer to <b><u>Power Seat Switch Replacement</u></b> . Is the repair complete?	Go to <b>Step 10</b>	-
10	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to <b>Step 2</b>

**POWER SEAT INOPERATIVE**

**Power Seat Inoperative**

Step	Action	Yes	No
<b>Schematic Reference: <u>Driver Seat Schematics</u> and <u>Passenger Seat Schematics</u></b>			

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**Connector End View Reference: Power Seat Connector End Views**

DEFINITION: One or more of the seat track adjuster motor function are inoperative.

1	Did you review the Power Seat System Description and Operation and perform the necessary inspections?	Go to <b>Step 2</b>	Go to
2	Attempt to operate all of the power seat adjuster motors through their full range of adjustment. Do all of the power seat adjuster motors operate properly?	<b><u>Go to Testing for Intermittent Conditions and Poor Connections</u></b>	Go to <b>Step 3</b>
3	Are all of the seat track adjuster motors inoperative?	Go to <b>Step 4</b>	Go to <b>Step 6</b>
4	Test the battery voltage supply circuit to the power seat switch for an open or short to ground. Refer to <b><u>Circuit Testing</u></b> and <b><u>Wiring Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 12</b>	Go to <b>Step 5</b>
5	Test the power seat switch ground circuit for an open or high resistance. Refer to <b><u>Circuit Testing</u></b> and <b><u>Wiring Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 12</b>	Go to <b>Step 10</b>
6	<ol style="list-style-type: none"> <li>1. Disconnect the seat track adjuster motor assembly connector.</li> <li>2. Connect a test lamp across the inoperative adjuster motor control circuit terminals.</li> <li>3. Press the inoperative seat adjuster switch in both directions.</li> </ol> Does the test lamp illuminate when the switch is pressed in both directions?	Go to <b>Step 8</b>	Go to <b>Step 7</b>
7	<ol style="list-style-type: none"> <li>1. Disconnect the power seat switch connector.</li> <li>2. Test the inoperative adjuster motor control circuits for an open or short to ground. Refer to <b><u>Circuit Testing</u></b> and <b><u>Wiring Repairs</u></b> .</li> </ol>		

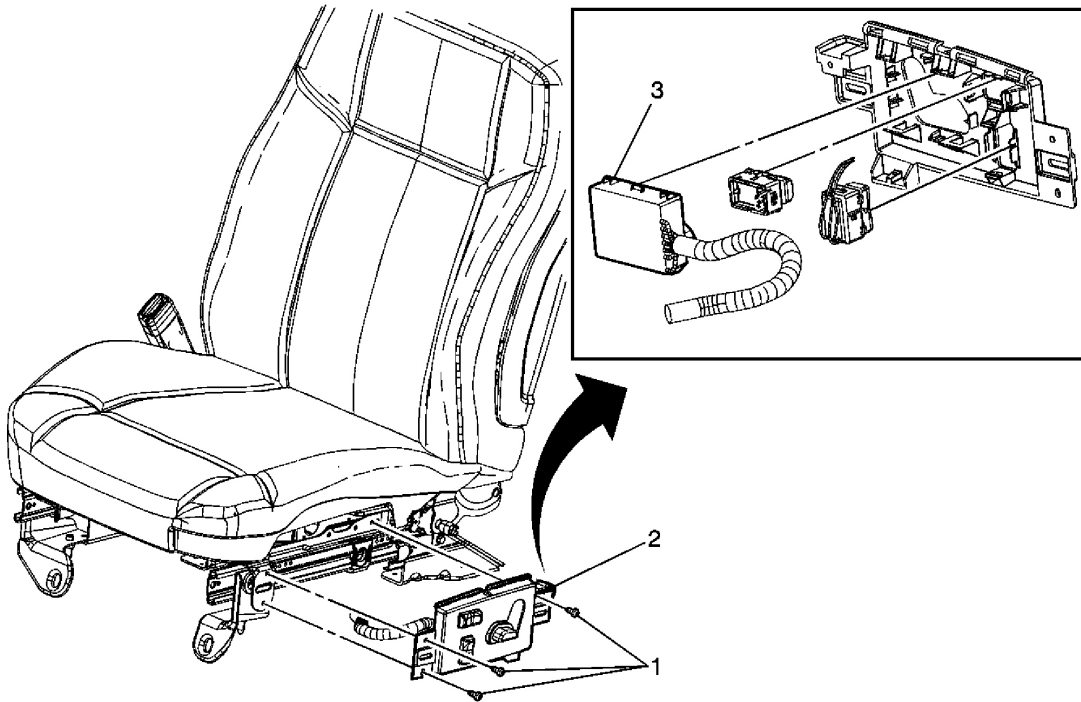
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	Did you find and correct the condition?	Go to <b>Step 12</b>	Go to <b>Step 10</b>
8	Inspect for poor connections at the seat track adjuster motor assembly connector. Refer to <b><u>Testing for Intermittent Conditions and Poor Connections</u></b> and <b><u>Connector Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 12</b>	Go to <b>Step 9</b>
9	Replace the seat track adjuster motor assembly. Refer to <b><u>Front Seat Adjuster Replacement</u></b> . Is the repair complete?	Go to <b>Step 12</b>	-
10	Inspect for poor connections at the power seat switch. Refer to <b><u>Testing for Intermittent Conditions and Poor Connections</u></b> and <b><u>Connector Repairs</u></b> . Did you find and correct the condition?	Go to <b>Step 12</b>	Go to <b>Step 11</b>
11	Replace the power seat switch. Refer to <b><u>Power Seat Switch Replacement</u></b> . Is the repair complete?	Go to <b>Step 12</b>	-
12	Operate the system in order to verify the repair. Did you correct the condition?	System OK	Go to <b>Step 2</b>

**REPAIR INSTRUCTIONS**

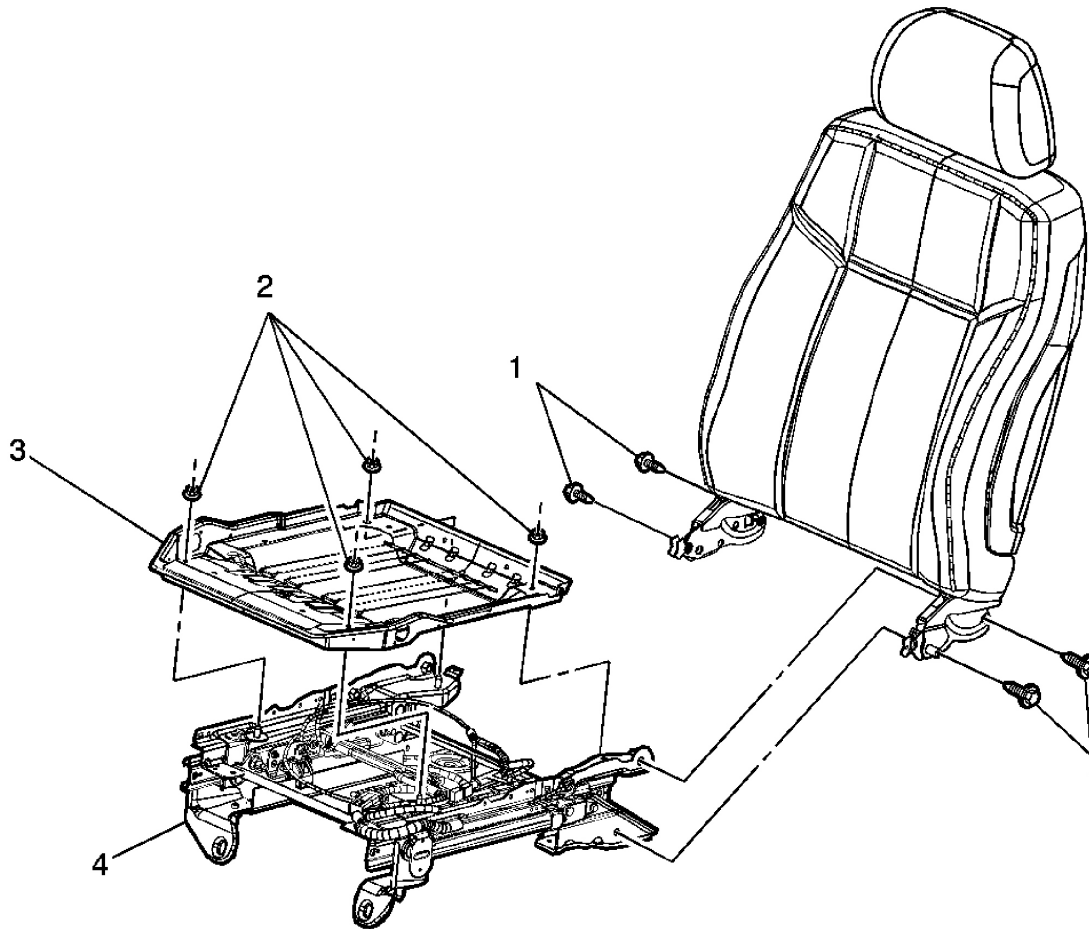
**POWER SEAT SWITCH REPLACEMENT**



**Fig. 13: Seat Switch Replacement - Power**  
 Courtesy of GENERAL MOTORS CORP.

**Power Seat Switch Replacement**

Callout	Component Name
<b>Preliminary Procedures</b>	
1. Remove the front bucket seat. Refer to <u>Front Seat Replacement - Bucket</u> . 2. Remove the front seat trim panels. Refer to <u>Front Seat Trim Panel Replacement (Manual Lumbar)</u> or <u>Front Seat Trim Panel Replacement (Power Lumbar)</u> .	
1	Seat Switch Assembly Screw (Qty: 3)  <b>NOTE:</b> Refer to <u>Fastener Notice</u> .  <b>Tighten:</b> 2 N.m (18 lb in)
2	Seats Switch Bezel Assembly
3	Seat Adjuster Switch <b>Tip:</b> Disconnect the electrical connector.



**Fig. 14: Replacing Front Seat Adjuster**  
 Courtesy of GENERAL MOTORS CORP.

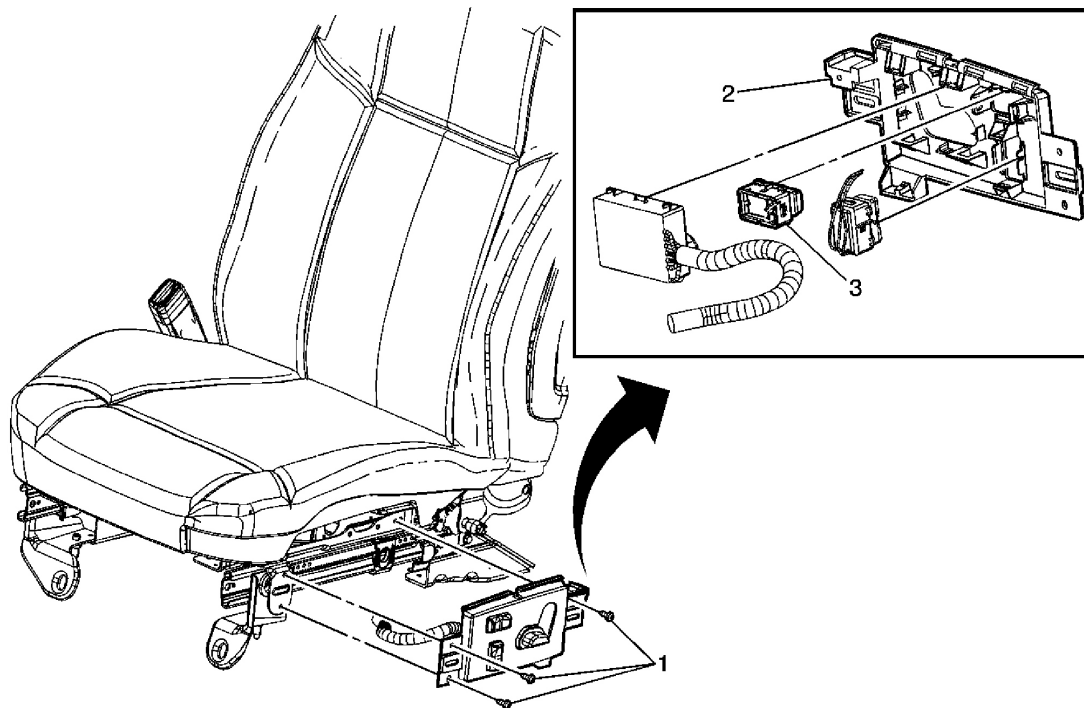
**Front Seat Adjuster Replacement**

Callout	Component Name
<b>Preliminary Procedures</b>	
1. Remove the front bucket seat. Refer to <b><u>Front Seat Replacement - Bucket</u></b> . 2. Remove the seat cushion trim cover and pad. Refer to <b><u>Seat Cushion Trim Cover and Pad Replacement</u></b> .	
1	Seat Back Frame Bolt (Qty: 4)  <b>NOTE:</b> Refer to <b><u>Fastener Notice</u></b> .



	<b>Tighten:</b> 25 N.m (18 lb ft)
2	Seats Cushion Frame Nut <b>Tighten:</b> 25 N.m (18 lb ft)
3	Seat Cushion Frame Assembly <b>Tip:</b> Remove the wiring harness retainers.
4	Seat Adjuster Assembly <b>Tip:</b> If replacing the seat adjuster mechanism, remove the seat position sensor and retain to use on the new adjuster. Refer to <b><u>Inflatable Restraint Seat Position Sensor Replacement</u></b> .

**LUMBAR SWITCH REPLACEMENT**



**Fig. 15: Replacing Lumbar Switch**  
 Courtesy of GENERAL MOTORS CORP.

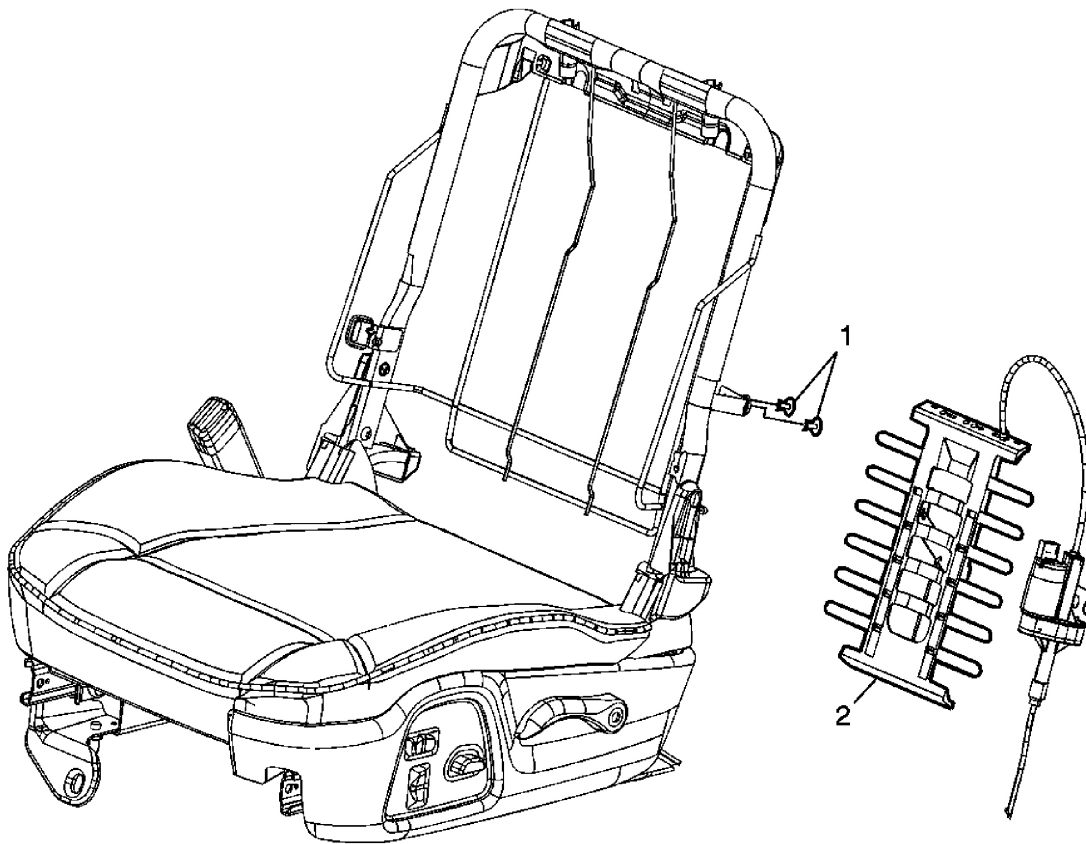
**Lumbar Switch Replacement**

Callout	Component Name
<b>Preliminary Procedures</b>	
1.	Remove the front bucket seat. Refer to <b>Front Seat Replacement - Bucket</b> .

2. Remove the front seat trim panel. Refer to **Front Seat Trim Panel Replacement (Manual Lumbar)** or **Front Seat Trim Panel Replacement (Power Lumbar)** .

1	<p>Seat Switch Assembly Screw (Qty: 3)</p> <p><b>NOTE:</b> Refer to <b><u>Fastener Notice</u></b> .</p> <p><b>Tighten:</b> 2 N.m (18 lb in)</p>
2	Seats Switch Bezel Assembly
3	<p>Seat Lumbar Control Switch</p> <p><b>Tip:</b> Disconnect the electrical connector.</p>

### FRONT SEAT LUMBAR SUPPORT REPLACEMENT



**Fig. 16: Replacing Front Seat Lumbar Support**  
Courtesy of GENERAL MOTORS CORP.

### Front Seat Lumbar Support Replacement

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Callout	Component Name
<b>Fastener Tightening Specifications:</b> Refer to <u><b>Fastener Tightening Specifications</b></u> .	
<b>Preliminary Procedure</b>	
<ol style="list-style-type: none"><li>1. Remove the front bucket seat. Refer to <u><b>Front Seat Replacement - Bucket</b></u> .</li><li>2. Remove the seat back panel. Refer to <u><b>Front Seat Back Panel Replacement</b></u> .</li><li>3. Remove the seat back cover and pad. Refer to <u><b>Front Seat Back Cushion Cover and Cushion Pad Replacement</b></u> .</li></ol>	
1	Rivet, Seat Lumbar Support <b>Tip:</b> Drill out the rivet to remove the lumbar actuator and install new rivets to replace.
2	Support Assembly, Seat Lumbar <b>Tip:</b> <ol style="list-style-type: none"><li>1. Disconnect the electrical connector.</li><li>2. Detach the seat back frame wire from the top of the lumbar.</li><li>3. Detach the seat back frame wire from the bottom of the lumbar.</li></ol>

## DESCRIPTION AND OPERATION

### LUMBAR SUPPORT DESCRIPTION AND OPERATION

#### Power Lumbar System Operation

The power lumbar system is controlled through the power lumbar switch. Battery voltage is supplied to the power lumbar switch through the SEATSW 40A fuse in the underhood BEC and the Power Seats 20A circuit breaker in the driver seat wiring harness. While the lumbar switch is in an inactive state the switch contacts are closed to the lumbar switch ground circuit. When a lumbar switch is pressed to an active state the switch contact is closed to the battery voltage supply circuit. The lumbar adjuster motor is controlled by the lumbar switch through 2 motor control circuits. The lumbar adjuster motor is bidirectional and the direction of adjuster motor rotation is determined by which of the motor control circuits is switched to battery voltage while the other remains grounded.

### POWER SEATS SYSTEM DESCRIPTION AND OPERATION

#### Power Seat System Operation

The power seats are controlled through the power seat switch. Battery voltage is supplied to the

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power seat switch through the SEATSW 40A fuse in the underhood BEC and the Power Seats 20A circuit breaker in the driver seat wiring harness. While the seat adjuster switches are in an inactive state the switch contacts are closed to the power seat switch ground circuit. When a power seat switch is pressed to an active state the switch contact is closed to the battery voltage supply circuit. Each seat adjuster motor is controlled by the power seat switch through 2 motor control circuits. The seat adjuster motors are bidirectional and the direction of adjuster motor rotation is determined by which of the adjuster motor control circuits is switched to battery voltage while the other remains grounded.