

2002 ACCESSORIES & EQUIPMENT**Power Seats - MDX****DESCRIPTION & OPERATION**

WARNING: Vehicle is equipped with Supplemental Inflatable Restraint (SIR) system. When servicing vehicle, use care to avoid accidental air bag deployment. SIR system-related components are located in various locations throughout interior of vehicle, depending on application. Do not use electrical test equipment on or near these circuits. If necessary, deactivate SIR system before servicing components. See **AIR BAG SAFETY PRECAUTIONS and DISABLING & ACTIVATING AIR BAG SYSTEM** in **AIR BAG RESTRAINT SYSTEMS** article in **RESTRAINTS**.

POWER SEATS

All models are equipped with driver's 8-way power seat. Base models are equipped with manual passenger seat. TOURING models are equipped with passenger's 8-way power seat. All adjustment functions are accomplished by four 12-volt, reversible motors attached to seat frame.

Power seats operate using toggle or rocker switches, located on the seat side. Circuit protection is provided by fuses No. 2 (20-amp) and No. 4 (20-amp) for driver's side, and fuses No. 3 (20-amp) and No. 5 (20-amp) for passenger's side (touring), located in passenger's underdash fuse/relay box.

SEAT HEATERS

Heated seat system consists of temperature control switches, circuit breakers, control relays, heating elements, thermostats, and wiring. Seat temperature is selected using control switches and automatically controlled via a thermostat built into each seat cushion heater.

System is powered through fuse No. 4 (7.5-amp) located in driver's underdash fuse/relay box, and fuse No. 14 (20-amp) located in passenger's underdash fuse/relay box. A 3-way rocker type switch with HI, OFF and LO settings is used to control seat temperature.

Thermostats monitor seat temperature and will open circuit at a specified temperature. The thermostat closes at less than 93°F (34°C) and opens circuit at about 109°F (43°C). Circuit breakers built into heaters close at less than 86°F (30°C) and opens at greater than 122°F (50°C).

SEAT MEMORY

Touring models are equipped with driver's seat memory. For testing, see appropriate **DRIVER'S POSITION MEMORY SYSTEM** article.

COMPONENT TESTS

POWER SEAT MOTORS

Driver's Seat Motors

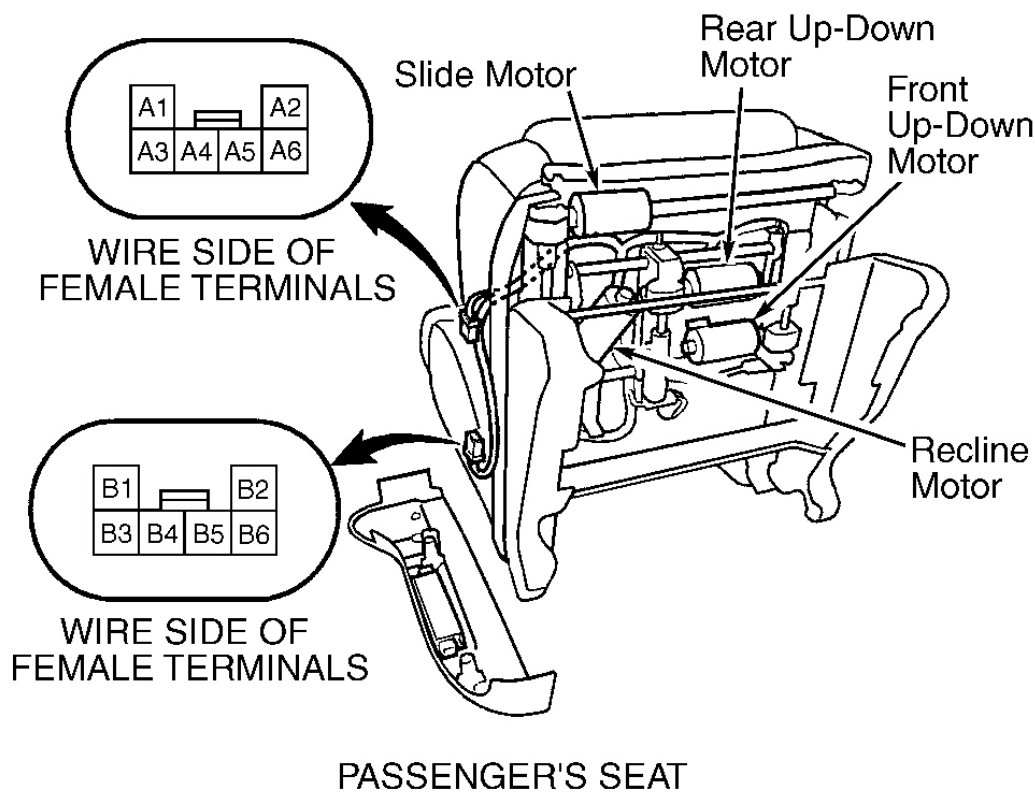
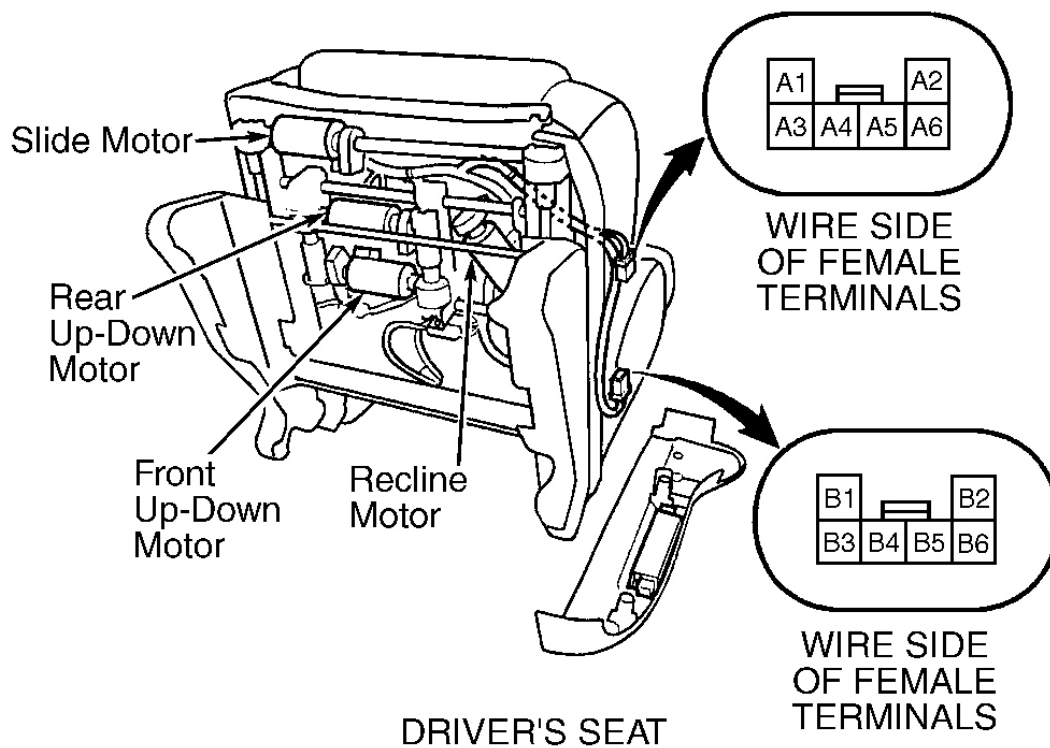
Access driver's power seat switch. Disconnect harness connectors from power seat switch. See **Fig. 1** . Using jumper leads, connect 12 volts and ground to specified connector terminals. See **DRIVER'S SEAT MOTOR TEST** table. Observe seat operation. If any motor fails any portion of test, replace faulty motor.

DRIVER'S SEAT MOTOR TEST

Position	Battery Connection (+) & (-) At Terminals
Slide Motor	
Forward	A1 & A5
Backward	A5 & A1
Front Up-Down Motor	
Up	A3 & A4
Down	A4 & A3
Rear Up-Down Motor	
Up	A2 & A6
Down	A6 & A2
Recline	
Forward	B3 & B4
Backward	B4 & B3

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Fig. 1: Locating Power Seat Motors & Harness Connectors
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Passenger's Seat Motors

Access passenger's power seat switch. Disconnect harness connectors from power seat switch. See **Fig. 1** . Using jumper leads, connect 12 volts and ground to specified connector terminals. See **PASSENGER'S SEAT MOTOR TEST** table. Observe seat operation. If any motor fails any portion of test, replace faulty motor.

PASSENGER'S SEAT MOTOR TEST

Position	Battery Connection (+) & (-) At Terminals
Slide Motor	
Forward	A2 & A4
Backward	A4 & A2
Front Up-Down Motor	
Up	A6 & A5
Down	A5 & A6
Rear Up-Down Motor	
Up	A1 & A3
Down	A3 & A1
Recline	
Forward	B6 & B5
Backward	B5 & B6

POWER SEAT SWITCHES

Remove power seat adjustment switch knob and recline cover from side of seat. Remove power seat switch. Disconnect power seat switch harness connectors. Using an ohmmeter, verify continuity between specified terminals. See **DRIVER'S POWER SEAT SWITCH CONTINUITY TEST** or **PASSENGER'S POWER SEAT SWITCH CONTINUITY TEST** tables. See **Fig. 2 -Fig. 3** . If switch fails any test, replace faulty switch.

DRIVER'S POWER SEAT SWITCH CONTINUITY TEST

Switch Position	Continuity Between Terminals
Slide Switch	
Forward	A1 & B5; A5 & B6
Backward	A1 & B6; A5 & B5
Front Up/Down Switch	
Up	A3 & B6; A4 & B5
Down	A3 & B5; A4 & B6
Rear Up/Down Switch	
Up	A2 & B2; A6 & B1
Down	A2 & B1; A6 & B2

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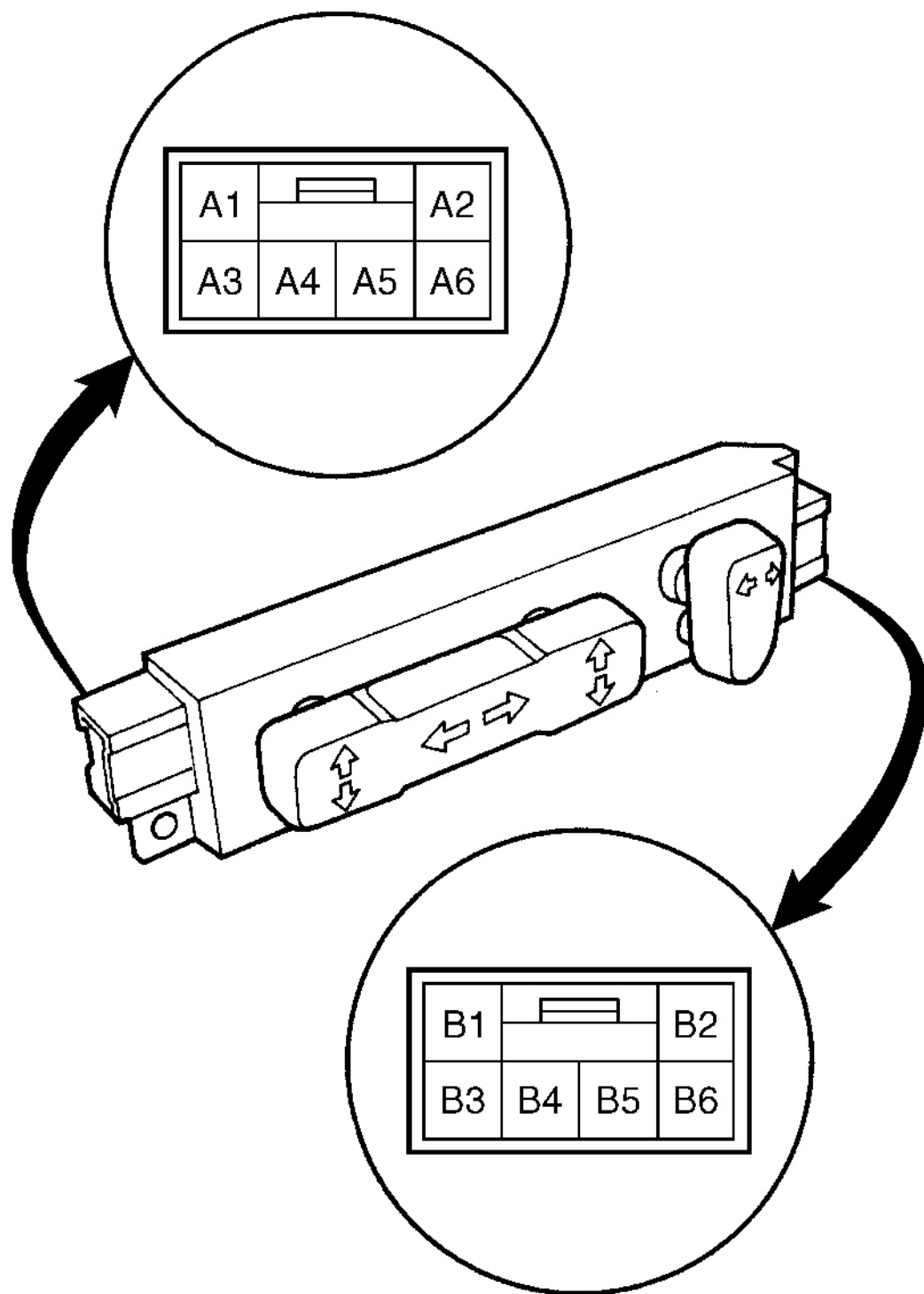
Recline	
Forward	B1 & B4; B2 & B3
Backward	B1 & B3; B2 & B4

PASSENGER'S POWER SEAT SWITCH CONTINUITY TEST

Switch Position	Continuity Between Terminals
Slide Switch	
Forward	A2 & B4; A4 & B3
Backward	A2 & B3; A4 & B4
Front Up/Down Switch	
Up	A5 & B4; A6 & B3
Down	A5 & B3; A6 & B4
Rear Up/Down Switch	
Up	A1 & B1; A3 & B2
Down	A1 & B2; A3 & B1
Recline	
Forward	B1 & B6; B2 & B5
Backward	B1 & B5; B2 & B6

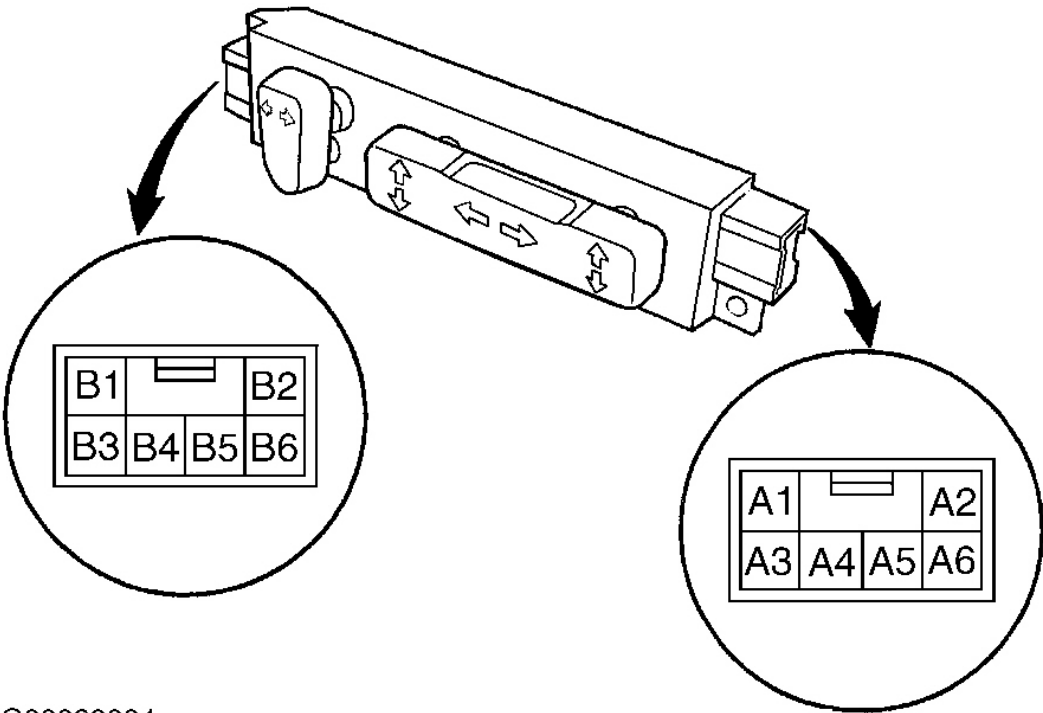
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Fig. 2: Identifying Driver's Power Seat Switch Connectors & Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.



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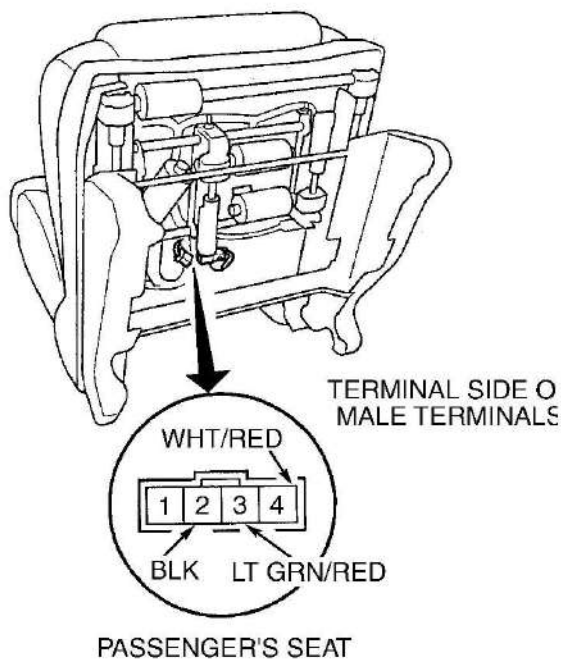
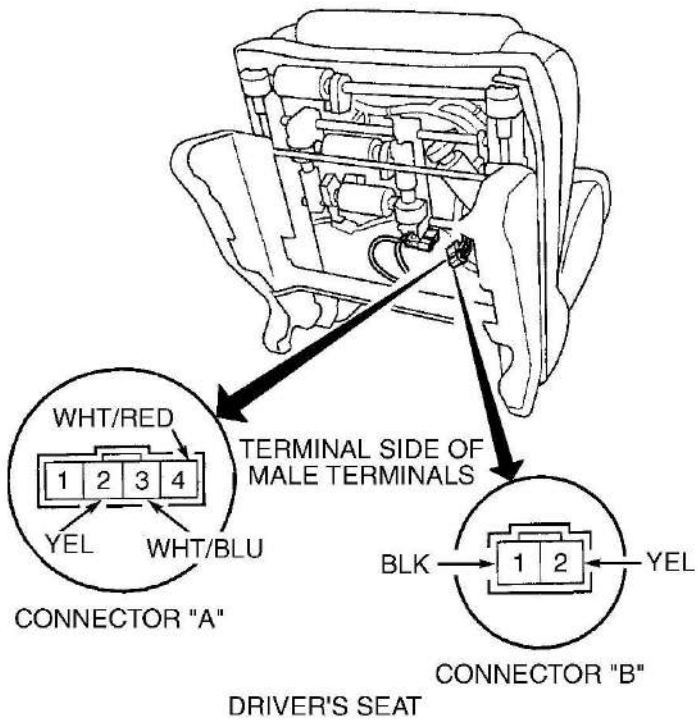
Fig. 3: Identifying Passenger's Power Seat Switch Connectors & Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SEAT HEATER

Remove seat to be tested. See **FRONT SEAT** under REMOVAL & INSTALLATION. Disconnect seat heating element connectors. Using an ohmmeter, verify continuity between terminals. See **SEAT HEATER CONTINUITY** table. See **Fig. 4** . Continuity should exist. If continuity does not exist, replace seat heater.

SEAT HEATER CONTINUITY

Application/Connector	Terminal No. (Wire Color)
Driver's Seat	
Seat Cushion	2 (YEL) & 3 (WHT/BLU); 3 (WHT/BLU) & 4 (WHT/RED)
Seat Back	1 (YEL) & 2 (BLK)
Passenger's Seat	2 (BLK) & 3 (LT GRN/BLU); 3 (LT GRN/BLU) & 4 (LT GRN/RED)



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Fig. 4: Identifying Seat Heating Element Connector Terminals
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Remove seat heater relay from underdash relay block located above driver's underdash fuse/relay box. Check for continuity between terminals No. 1 and 2. See **Fig. 5** . Continuity should not exist. Using jumper wires, connect terminal No. 3 to battery voltage and terminal No. 4 to ground. If continuity does not exist between terminals No. 1 and 2, replace relay.

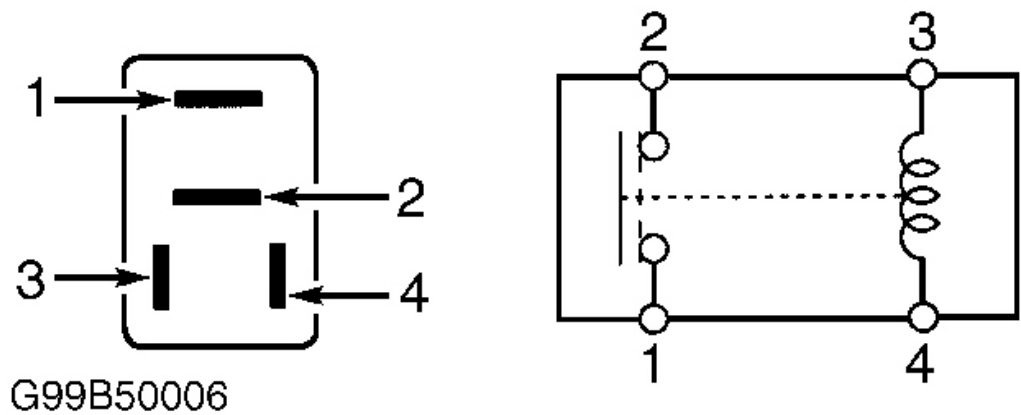


Fig. 5: Identifying Seat Heater Relay Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SEAT HEATER SWITCH

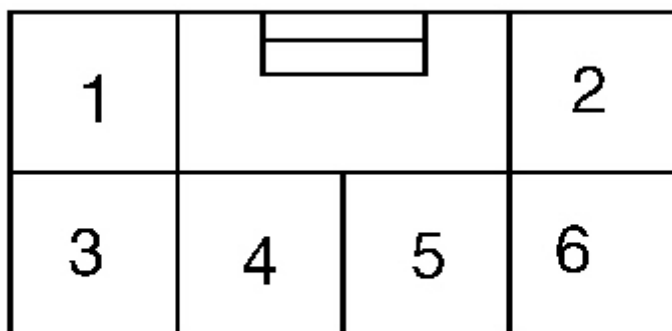
Remove heater switch from console. See **SEAT HEATER SWITCHES** under REMOVAL & INSTALLATION. Using ohmmeter, verify continuity between terminals in each switch position. See **SEAT HEATER SWITCH CONTINUITY** table. See **Fig. 6** . If continuity does not exist as specified, replace heater switch.

SEAT HEATER SWITCH CONTINUITY

Position	Continuity Between Terminals No.
Off	(1)
High (2)	3 & 5; 4 & 6
Low (2)	5 & 6

(1) Illumination bulbs are positioned between terminals No. 1 and 2. Replace illumination bulb and retest before replacing switch.

(2) Activation bulbs are positioned between terminals No. 3 and 6. Replace bulb and retest before replacing switch.



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Fig. 6: Identifying Seat Heater Switch Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

REMOVAL & INSTALLATION

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CAUTION: When battery is disconnected, vehicle computer and memory systems may lose memory data. Driveability problems may exist until computer systems have completed a relearn cycle. See **COMPUTER RELEARN PROCEDURES** article in **GENERAL INFORMATION** before disconnecting battery.

CAUTION: Before disconnecting battery, obtain anti-theft code for radio and navigation system. Note radio station presets. After battery is reconnected, the word **CODE** will appear on radio display. Enter 5-digit anti-theft code using select buttons and radio will begin working. If code is entered wrong 3 times, leave radio on at least one hour and enter code correctly. Any time radio power is lost, pre-selected radio stations will

have to be reset.

FRONT SEAT

NOTE: When prying with flat-bladed screwdriver, tape end of screwdriver to prevent scratching interior surfaces.

Removal & Installation

Disconnect battery. Wait at least 3 minutes before starting work. Gently pry front and rear covers from seat frame. Remove 4 bolts securing seat. Lift front of seat. Disconnect seat harness connector and side air bag harness connector. On passenger's seat, disconnect Occupant Position Detection System (OPDS) sensor. If equipped with navigation system, disconnect 3 navigation unit connectors and GPS antenna harness connector. Remove seat. To install, reverse removal procedure. See **TORQUE SPECIFICATIONS** . Reconnect battery and reprogram radio security code and preset stations.

SEAT-BACK HEATER

- CAUTION:**
- Do not repair torn or frayed seat-back covers. If necessary, replace the seat-back cover. Take care not to tear the seams or damage the seat covers.
 - Do not touch the OPDS sensor in the seat-back pad, and keep it away from oils. Oils can corrode the sensor causing it to fail. Put on gloves to protect your hands.

NOTE: The seat-back heater is located in the seat back.

Removal & Installation

Fold the seat-back forward. Remove the headrest. Remove back panel by pulling out to release 2 clips, then pulling down to release 2 hooks. On driver's seat, remove clip and lumbar support knob. Release 3 hook strips, 6 hooks and 3 inside springs, then loosen the seat-back cover. Remove the headrest guide by lifting and pulling out the release button and removing the screw. Pull back the edge of the seat-back cover all the way around. Remove the seat-back cover by releasing 8 clips from under the seat-back cover. To install, reverse removal procedure. See **TORQUE SPECIFICATIONS** . When installing, note the following:

- To prevent wrinkles when installing a seat-back cover, make sure the material is stretched evenly over the pad before securing the fasteners, hooks and inside springs.
- Replace the any clips you removed with NEW ones using commercially available upholstery ring pliers.
- Use only original Acura replacement seat-back covers.
- Route the seat wire harness correctly.

SEAT CUSHION HEATER

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CAUTION:

- Do not repair torn or frayed seat-back covers. If necessary, replace the seat-back cover. Take care not to tear the seams or damage the seat covers.
- Do not touch the OPDS sensor in the seat-back pad, and keep it away from oils. Oils can corrode the sensor causing it to fail. Put on gloves to protect your hands.

NOTE:

Seat cushion heater is located in the seat cushion.

Removal & Installation

Remove appropriate front seat. See **FRONT SEAT** . Remove seat-back by removing bolts attaching it to recliner adjuster, pivot nuts and bushing. Disconnect necessary wire harnesses. Remove seat cushion by removing bolts attaching it to seat linkage and disconnecting necessary wire harnesses. Release hooks and 7 clips from under the seat cushion, then loosen the seat cushion cover. Pull back the edge of the seat cushion cover all the way around, and release 19 clips, then remove the seat cushion cover. To install, reverse removal procedure. See **TORQUE SPECIFICATIONS** . When installing, note the following:

- To prevent wrinkles when installing a seat cushion cover, make sure the material is stretched evenly over the pad before securing the clips and hooks.
- Replace the any clips you removed with NEW ones using commercially available upholstery ring pliers.
- Route the seat wire harness correctly.
- Make sure the bushing and pivot washer are installed correctly.

SEAT HEATER SWITCHES

Removal & Installation

Remove center panel lower trim by detaching 4 clips by hand. Remove beverage holder by pulling upward to detach 2 clips. Remove shift indicator trim ring. Remove the console panel by gently detaching 7 clips. Disconnect the connectors from the seat heater switches and remove switches. To install, reverse removal procedure. See **TORQUE SPECIFICATIONS** .

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Front Seat Pivot Nut	16 (22)
Recline Adjuster-To-Seat Back Bolts	35 (47)
Seat Cushion-To-Seat Linkage	35 (47)
Seat Retaining Bolts	35 (47)

WIRING DIAGRAMS

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For power seat wiring, see **POWER SEATS** in SYSTEM WIRING DIAGRAMS article in ELECTRICAL.

For driver's memory seat wiring, see **MEMORY SYSTEMS** in SYSTEM WIRING DIAGRAMS article in ELECTRICAL.