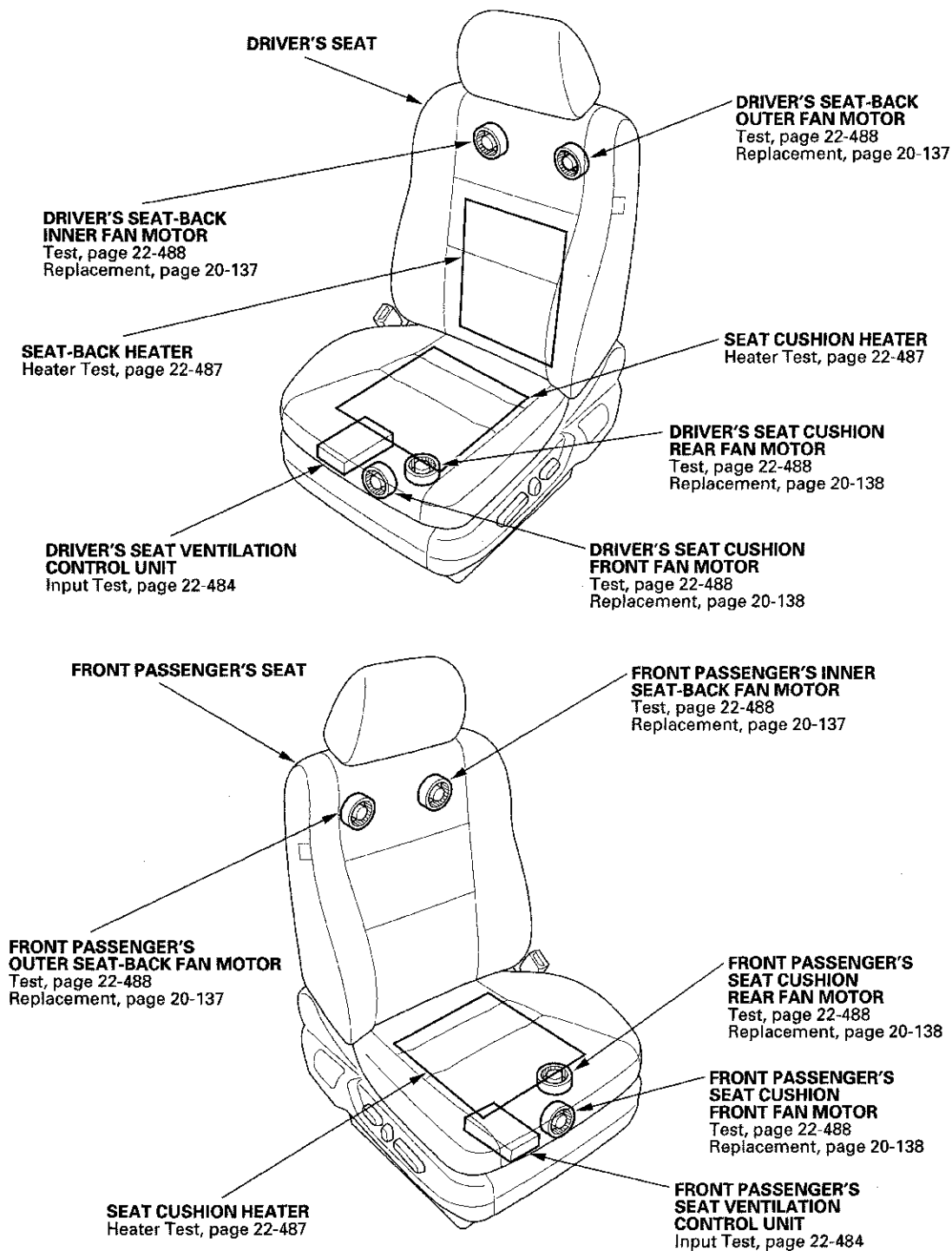


Ventilated Seats



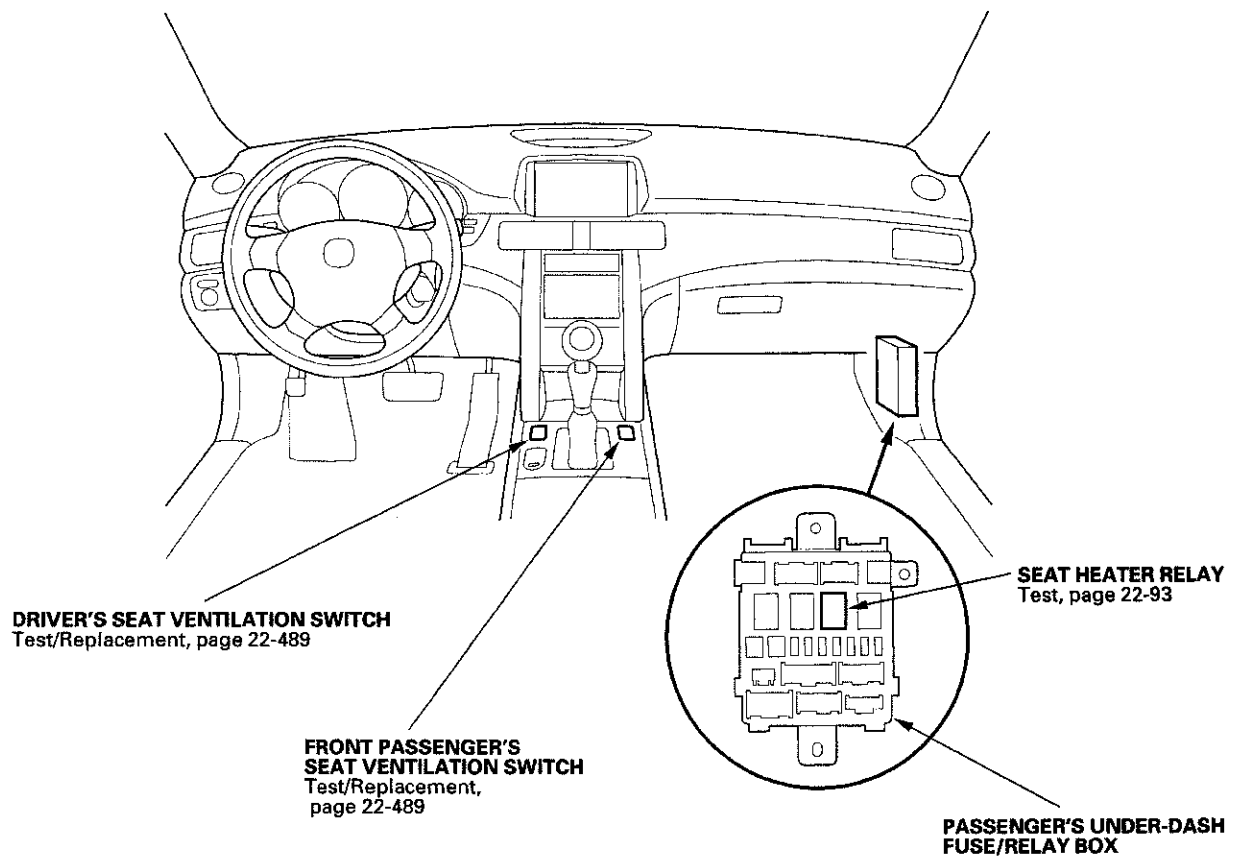
Component Location Index



(cont'd)

Ventilated Seats

Component Location Index (cont'd)





Self-diagnostic Function

The seat ventilation control unit has a thermistor self-diagnostic function. The control unit checks for an open or short in the thermistor, and it indicates the result by lighting the LEDs of the seat ventilation switch.

Entering the self-diagnostic function

1. Turn the ignition switch to ON (II), and do the next step within 5 seconds.
2. Push the DOWN side of the seat ventilation switch three times, and the UP side six times, then the DOWN side three times.
3. If the system enters the self-diagnostic mode, all of the LEDs turn on for 6 seconds, then indicate the result.
 - If the three LEDs of the heater side turn on, the thermistor is faulty.
 - If no LED turns on, the thermistor is OK.

NOTE: The system has a timer function.

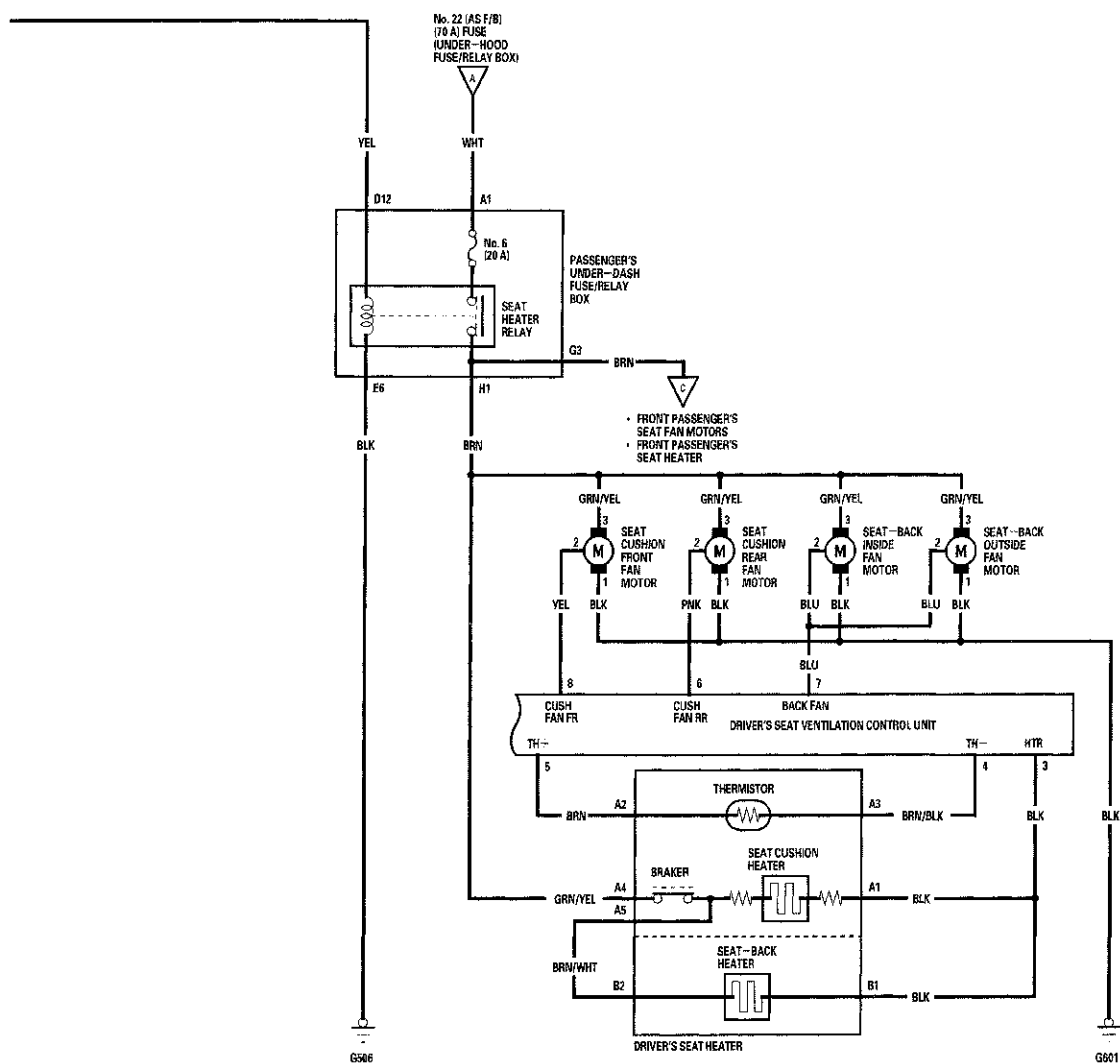
- The fan motor timer: About 15 minutes after the fan motor HIGH position is ON, the control unit changes the fan motor speed, and switch LED indicators from Hi to Mid.
- The seat heater timer: About 5 minutes after the heater temperature rises over 140 °F (60 °C), the control unit changes the heater temperature, and switch LED indicators from Hi to Mid.
- The seat heater timer: About an hour after the heater temperature rises over 115 °F (46 °C), the control unit changes the heater temperature, and switch LED indicators from Mid to LO.

Ending the self-diagnostic function

To exit the self-diagnostic mode, turn the ignition switch to LOCK (0).

Circuit Diagram

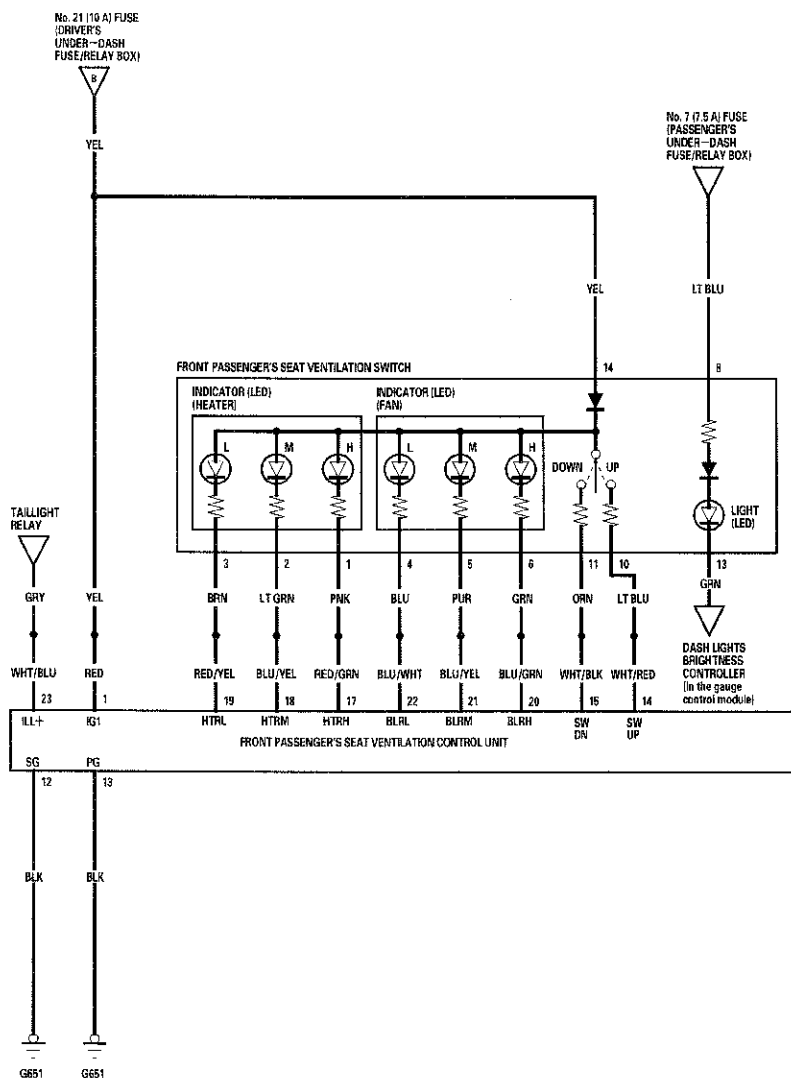


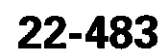


(cont'd)

Ventilated Seats

Circuit Diagram (cont'd)



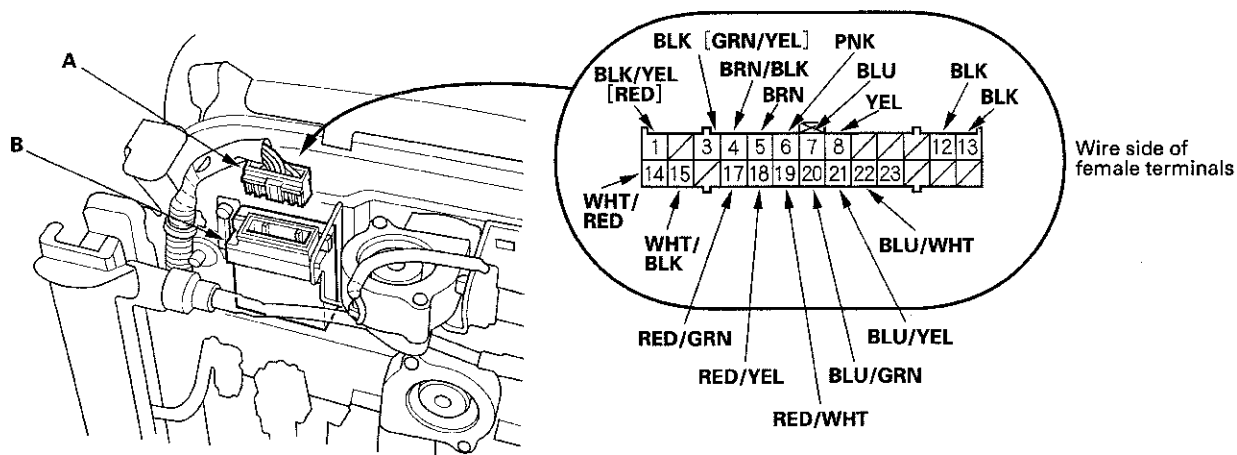


Ventilated Seats

Control Unit Input Test

NOTE: Before testing, check the No. 22 (AS F/B) (70 A) fuse in the under-hood fuse/relay box, the No. 30 (7.5 A) fuse in the driver's under-dash fuse/relay box, and the No. 6 (20 A) fuse in the passenger's under-dash fuse/relay box.

1. Remove the driver's or front passenger's seat (see page 20-114).
2. Disconnect the 26P connector (A) from the seat ventilation control unit (B).



[] : Front passenger's seat

3. Inspect the connector and socket terminals to be sure they are all making good contact.
 - If the terminals are bent, loose or corroded, repair them as necessary, and recheck the system.
 - If the terminals look OK, go to step 4.
4. Reconnect the 26P connector to the control unit, and do these input tests at the following connector.
 - If any test indicates a problem, find and correct the cause, then recheck the system.
 - If all the input tests prove OK, go to step 5.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
12	BLK	Ignition switch ON (II)	Measure the voltage to ground: There should be less than 0.2 V.	• Poor ground (G601) [G651] • An open in the wire
13	BLK	Ignition switch ON (II)	Measure the voltage to ground: There should be less than 0.2 V.	• Poor ground (G601) [G651] • An open in the wire
1	BLK/YEL [RED]	Ignition switch ON (II)	Measure the voltage to ground: There should be battery voltage.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty driver's under-dash fuse/relay box • An open in the wire

[] : Front passenger's seat



5. Disconnect the 26P connector from the control unit, and do these input tests at the following connector.

- If any test indicates a problem, find and correct the cause, then recheck the system.
- If all the input tests prove OK, the control unit must be faulty; replace it.

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
3	BLK [GRN/YEL]	Ignition switch ON (II)	Measure the voltage to ground: There should be battery voltage.	• Blown No. 6 (20A) fuse in the passenger's under-dash fuse/relay box • Poor ground (G506) • Faulty seat heater relay • Faulty seat heater • Faulty passenger's under-dash fuse/relay box • An open in the wire
4	BRN/BLK	Under all conditions	Check for continuity between terminals No. 4 and No. 5: There should be continuity.	• Faulty seat heater • An open in the wire
5	BRN			
6	PNK	Ignition switch ON (II)	Attach to ground: The seat cushion rear fan motor should run.	• Poor ground (G506, G601, [G651]) • Faulty seat heater relay • Faulty seat cushion rear fan motor • Faulty passenger's under-dash fuse/relay box • An open in the wire
7	BLU	Ignition switch ON (II)	Attach to ground: The seat-back fan motors should run.	• Poor ground (G506, G601, [G651]) • Faulty seat heater relay • Faulty seat-back inner fan motor • Faulty seat-back outer fan motor • Faulty passenger's under-dash fuse/relay box • An open in the wire
8	YEL	Ignition switch ON (II)	Attach to ground: The seat cushion front fan motor should run.	• Poor ground (G506, G601, [G651]) • Faulty seat heater relay • Faulty seat cushion front fan motor • Faulty passenger's under-dash fuse/relay box • An open in the wire

[] : Front passenger's seat

(cont'd)

Ventilated Seats

Control Unit Input Test (cont'd)

Cavity	Wire	Test condition	Test: Desired result	Possible cause if desired result is not obtained
14	WHT/RED	Ignition switch ON (II), seat ventilation switch UP side pushed	Measure the voltage to ground: There should be battery voltage.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
15	WHT/BLK	Ignition switch ON (II), seat ventilation switch DOWN side pushed	Measure the voltage to ground: There should be battery voltage.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
17	RED/GRN	Ignition switch ON (II)	Attach to ground: The seat heater HIGH indicator should come on.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
18	RED/YEL	Ignition switch ON (II)	Attach to ground: The seat heater MIDDLE indicator should come on.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
19	RED/WHT	Ignition switch ON (II)	Attach to ground: The seat heater LOW indicator should come on.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
20	BLU/GRN	Ignition switch ON (II)	Attach to ground: The seat fan HIGH indicator should come on.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
21	BLU/YEL	Ignition switch ON (II)	Attach to ground: The seat fan MIDDLE indicator should come on.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire
22	BLU/WHT	Ignition switch ON (II)	Attach to ground: The seat fan LOW indicator should come on.	• Blown No. 21 (10 A) fuse in the driver's under-dash fuse/relay box • Faulty seat ventilation switch • An open in the wire

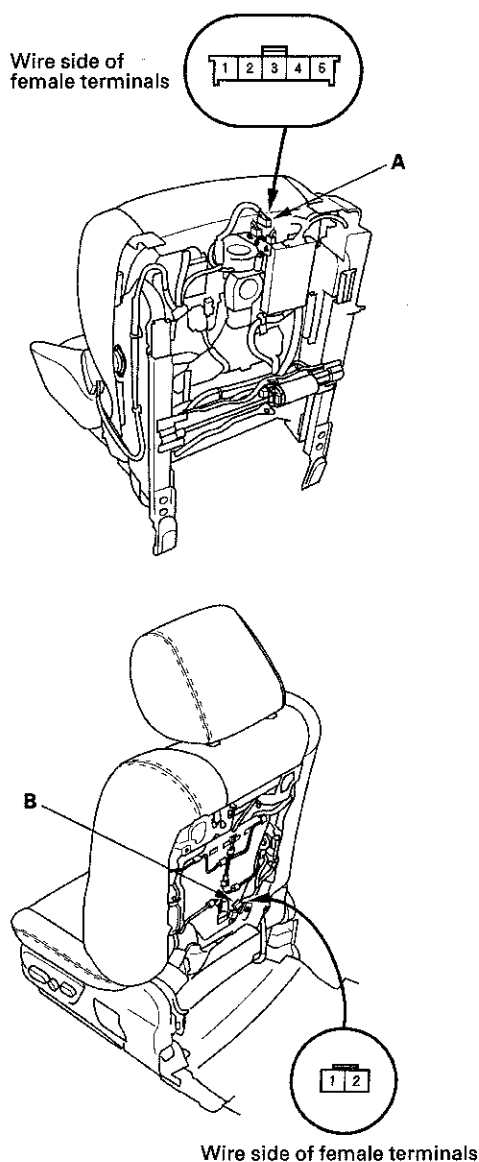
[] : Front passenger's seat



Seat Heater Test

Driver's Seat

1. Remove the driver's seat (see page 20-114), then remove the seat-back cover (see page 20-128).
2. Disconnect the 5P connector (A) from the seat cushion heater and 2P connector (B) from the seat-back heater.



Seat Cushion Heater Test

3. Check for continuity between seat cushion heater 5P connector terminals No. 2 and No. 3. There should be continuity. If there is no continuity, replace the seat cushion heater.
4. Check for continuity between seat cushion heater 5P connector terminals No. 1 and No. 4. There should be continuity, replace the seat cushion heater.

Seat-back Heater Test

5. Check for continuity between seat-back heater 2P connector terminals No. 1 and No. 2. There should be continuity. If there is no continuity, replace the seat-back heater.
6. Reconnect the 5P and 2P connectors to the seat heaters, and check for continuity between seat cushion heater 5P connector terminal No. 5 and seat-back heater 2P connector terminal No. 2. There should be continuity. If there is no continuity, repair an open in the wire between the seat cushion heater and the seat-back heater.

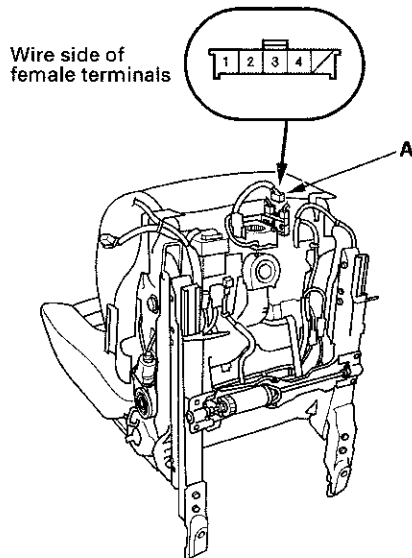
(cont'd)

Ventilated Seats

Seat Heater Test (cont'd)

Front Passenger's Seat

1. Remove the front passenger's seat (see page 20-114).
2. Disconnect the 5P connector (A) from the seat cushion heater.

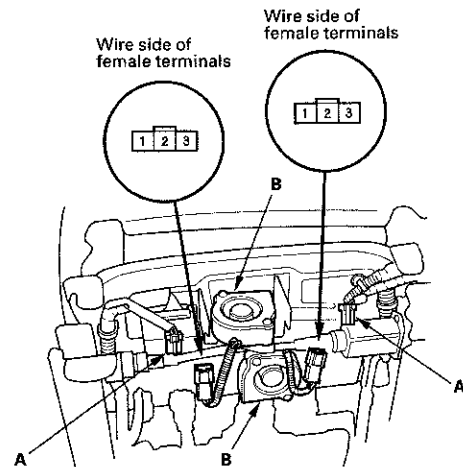


3. Check for continuity between seat cushion heater 5P connector terminals No. 2 and No. 3. There should be continuity. If there is no continuity, replace the seat cushion heater.
4. Check for continuity between seat cushion heater 5P connector terminals No. 1 and No. 4. There should be continuity. If there is no continuity, replace the seat cushion heater.

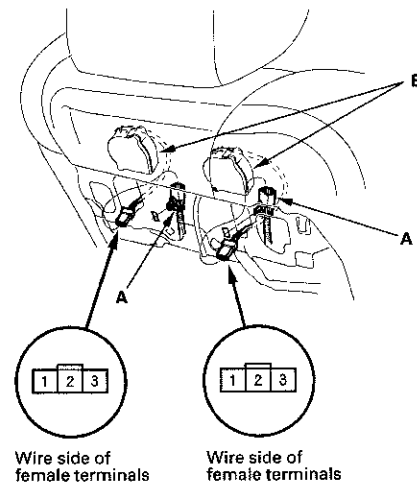
Fan Motor Test

1. Remove the driver's or front passenger's seat (see page 20-114), then remove the seat-back cover (see page 20-128).
2. Disconnect the 3P connector (A) from each fan motor (B).

Seat Cushion



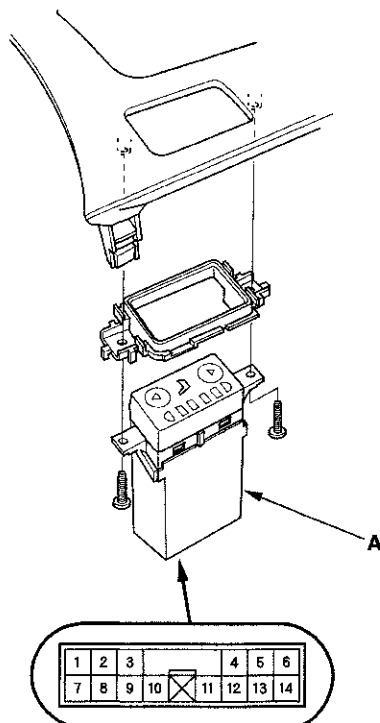
Seat-back



3. Connect battery power to fan motor 3P connector terminal No. 3 and ground terminal No. 1. The motor should run.
4. If the motor does not run or fails to run smoothly, replace the motor.
 - Seat cushion motor (see page 20-138).
 - Seat-back motor (see page 20-137).

Switch Test/Replacement

1. Remove the center console panel (see page 20-92).
2. Disconnect the 14P connector from the seat ventilation switch (A).



3. Remove the two screws and the switch.
4. Check for continuity between terminals No. 14 (+) and No. 10 (—).
 - There should be continuity when the switch UP side is pushed.
 - There should be no continuity when the switch is released.
5. Check for continuity between terminals No. 14 (+) and No. 11 (—).
 - There should be continuity when the switch DOWN side is pushed.
 - There should be no continuity when the switch is released.
6. If the continuity check is not as specified, replace the seat ventilation switch.

Indicator check

7. Swap the driver's and passenger's switch, and check the indicators.
 - If the indicators come on normally, replace the original switch.
 - If any of the indicators does not come on, check the wire harness between the switch and the seat ventilation control unit. If wire is OK, replace the seat ventilation control unit.