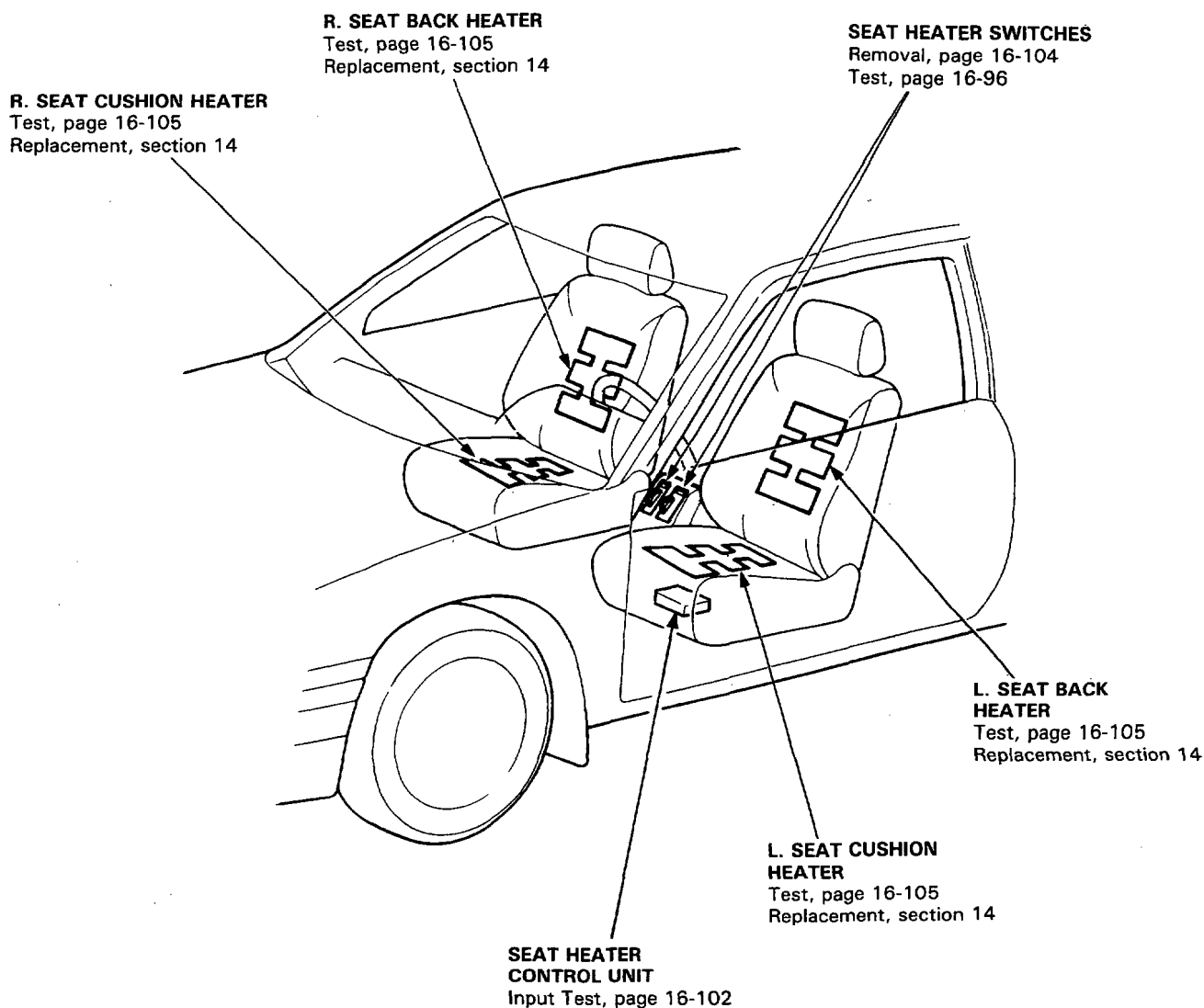




## Seat Heaters (KG, KX, KS and KW models)

### Component Location Index



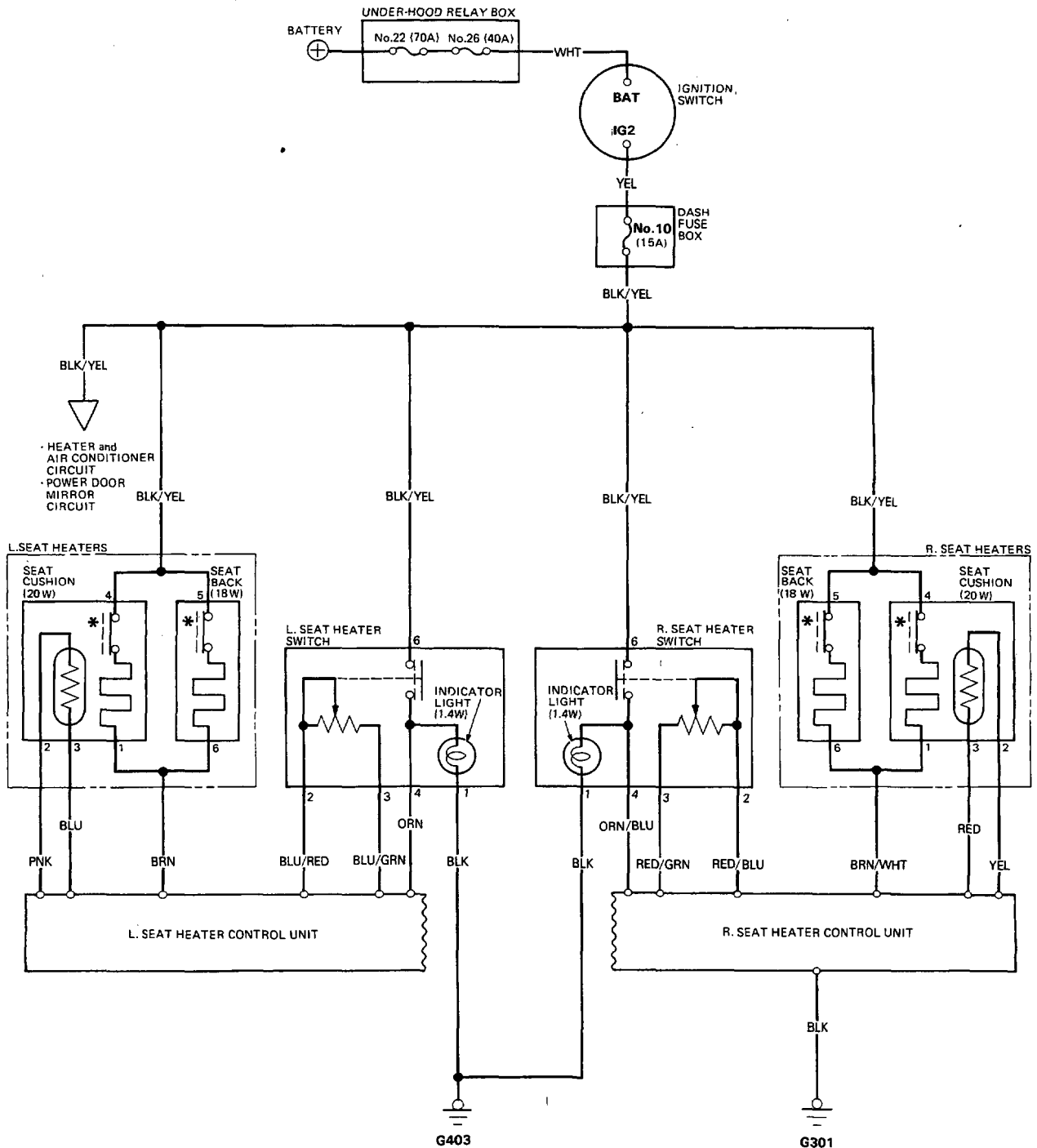
### Description

Two heaters are provided in each front seat; one in the seat cushion and one in the seat back. Each heater allows any desired temperature between 29°C and 34°C (84°F and 93°F) by rotating the adjusting dial located on the center console.

The heater in the seat cushion uses a temperature-dependent diode (thermistor) to measure differences in the seat temperatures. The use of the thermistor and transistors in the control unit combine to offer an accurate temperature control.

# Seat Heaters (KG, KX, KS and KW models)

## Circuit Diagram



\*: BREAKER [OFF above 70°C (158°F)/ON below 40°C (104°F)]



## Troubleshooting

NOTE: The numbers in the table show the troubleshooting sequence.

Item to be inspected Symptom		Blown No. 10 (15 A) fuse (in the dash fuse box)	Blown indicator light bulb	Seat heater switch	Seat heater	Thermistor (in the seat cushion heater)	Control unit input	Poor ground	Open circuit in wires or loose or disconnected terminals
Seat heaters operate, but indicator light does not go on.			1					G403	
Seat heaters do not operate and indicator light does not go on.		1		2				G403	BLK/YEL
Seat heaters do not operate, but indicator light goes on.	Left seat						1	G301	BLK/YEL, BRN or ORN
	Right seat						1		BLK/YEL, BRN/WHT or ORN/BLU
Seat cushion heater or seat back heater does not operate, but indicator light goes on.					1				
Seat heaters can be adjusted.	Left seat			1		2	3		BLU/GRN, BLU/RED, PNK or BLU
	Right seat			1		2	3		RED/GRN, RED/BLU, YEL or RED

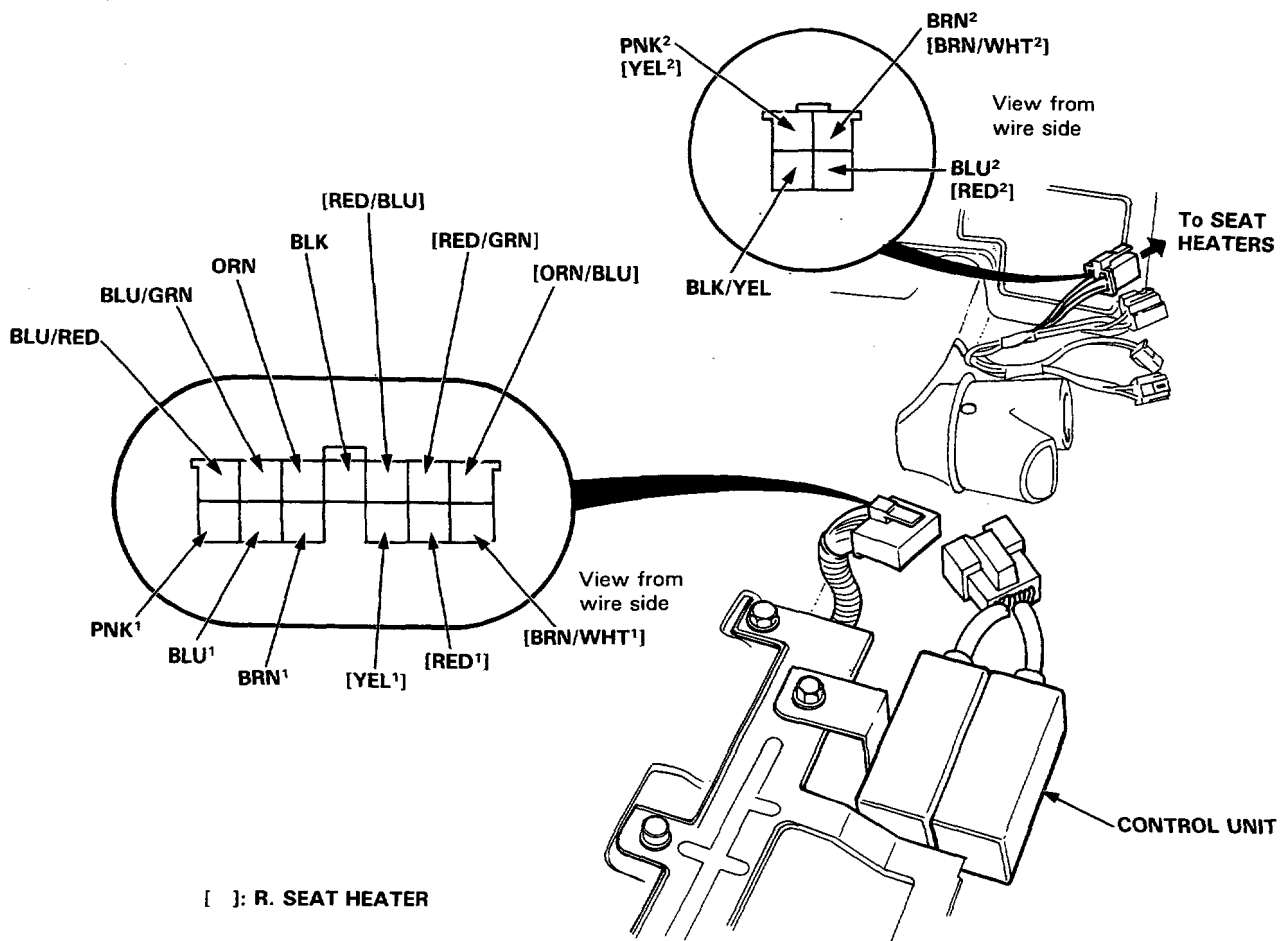
# Seat Heaters (KG, KX, KS and KW models)

## Control Unit Input Test

Remove the driver's seat, then disconnect the 13-P connector from the control unit.

Make the following input tests at the harness pins.

NOTE: Recheck connection between the 13-P connector and the control unit, and between the 4-P connector and the seat heaters, then replace the control unit if all input tests and seat heater test prove OK.



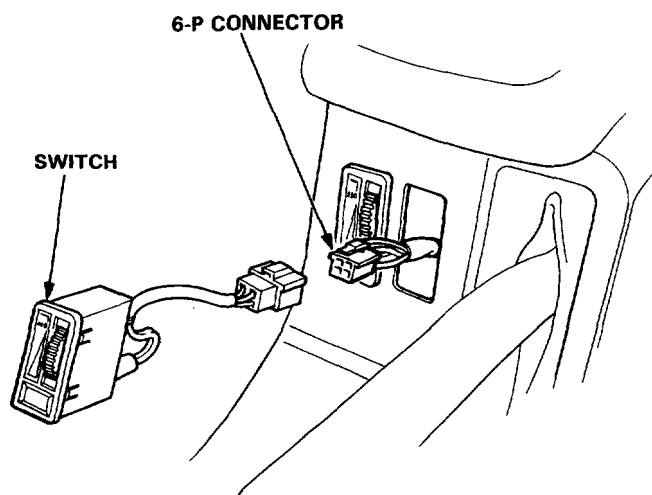


No.	Wire	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	BLK	Under all conditions.	Check for continuity to ground: should be continuity.	<ul style="list-style-type: none"> <li>• Poor ground (G403).</li> <li>• An open in the wire.</li> </ul>
2	ORN [ORN/BLU]	Ignition switch ON and seat heater switch clicked into ON.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> <li>• Blown No. 10 (15A) fuse.</li> <li>• Faulty seat heater (ON/OFF) switch.</li> <li>• An open in the wire.</li> </ul>
3	BLU/GRN and BLU/RED [RED/GRN and RED/BLU]	Adjusting dial rotated.	Check for resistance between the BLU/GRN [RED/GRN] and BLU/RED [RED/BLU] terminals. should vary from 0 to 10,000 ohms as the dial is rotated.	<ul style="list-style-type: none"> <li>• Faulty seat heater (variable) switch.</li> <li>• An open in the wire.</li> </ul>
4	BLK/YEL	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> <li>• An open in the wire.</li> </ul>
5	PNK [YEL] • BLU [RED] • BRN [BRN/WHT]	Under all conditions.	Check for continuity between the terminals. There should be continuity: <ul style="list-style-type: none"> <li>• Between the PNK<sup>1</sup> [YEL<sup>1</sup>] and PNK<sup>2</sup> [YEL<sup>2</sup>] terminals.</li> <li>• Between the BLU<sup>1</sup> [RED<sup>1</sup>] and BLU<sup>2</sup> [RED<sup>2</sup>] terminals.</li> <li>• Between the BRN<sup>1</sup> [BRN/WHT<sup>1</sup>] and BRN<sup>2</sup> [BRN/WHT<sup>2</sup>] terminals</li> </ul>	<ul style="list-style-type: none"> <li>• An open in the wire.</li> </ul>
6	Test the seat heaters (see page 16-105)			

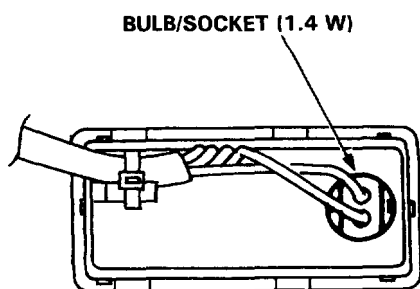
# Seat Heaters (KG, KX, KS and KW models)

## Switch Removal

1. Remove the center console.
2. Disconnect the 6-P connector to remove the switch, then push the switch behind the console.

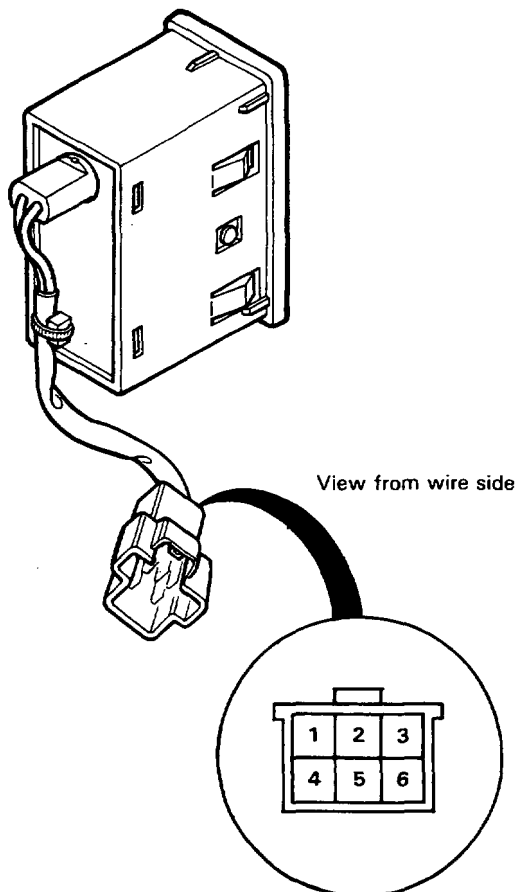


3. Turn the socket 45° counterclockwise to remove it.

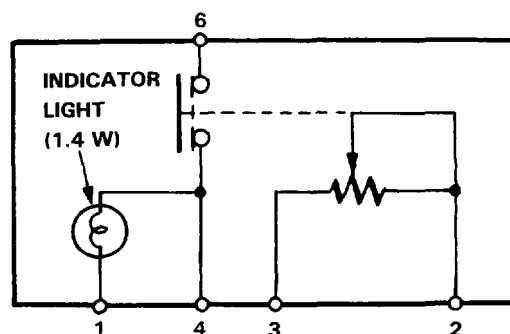


## Switch Test

1. Remove the seat heater switch from the center console.
2. There should be continuity between the No. 4 and No. 6 terminals when the switch is clicked into ON. There should be no continuity when the switch is clicked into OFF.



3. Measure resistance between the No. 2 and No. 3 terminals while rotating the adjusting dial. Resistance should vary from 0 to 10,000 ohms as the dial is rotated.

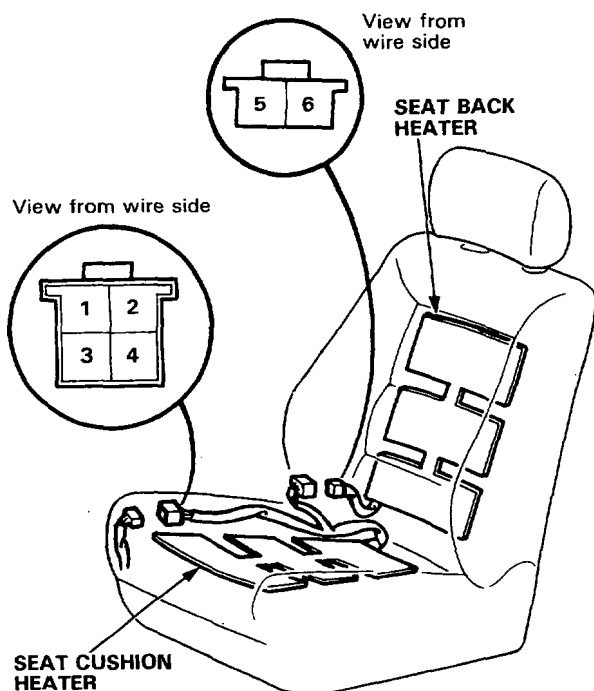




## Heater Test

1. Slide the seat forward to disconnect the 4-P connector from the seat cushion heater, and the 2-P connector from the seat back heater.

NOTE: Left front seat shown, right front seat similar.



2. Check for continuity between the No. 1 and No. 4 terminals, and between the No. 5 and No. 6 terminals. (RX10<sup>3</sup> scale)  
There should be continuity.
3. Using an ohmmeter (RX10<sup>3</sup> scale), measure resistance between the No. 2 and No. 3 terminals. Replace the seat cushion heater if the resistance is not within specifications.

NOTE: Resistance will vary with the thermistor temperature; specifications are at 25°C (77°F) or more.

**Thermistor Resistance: 8 k $\Omega$  or less.**