

Power Driver's Seat

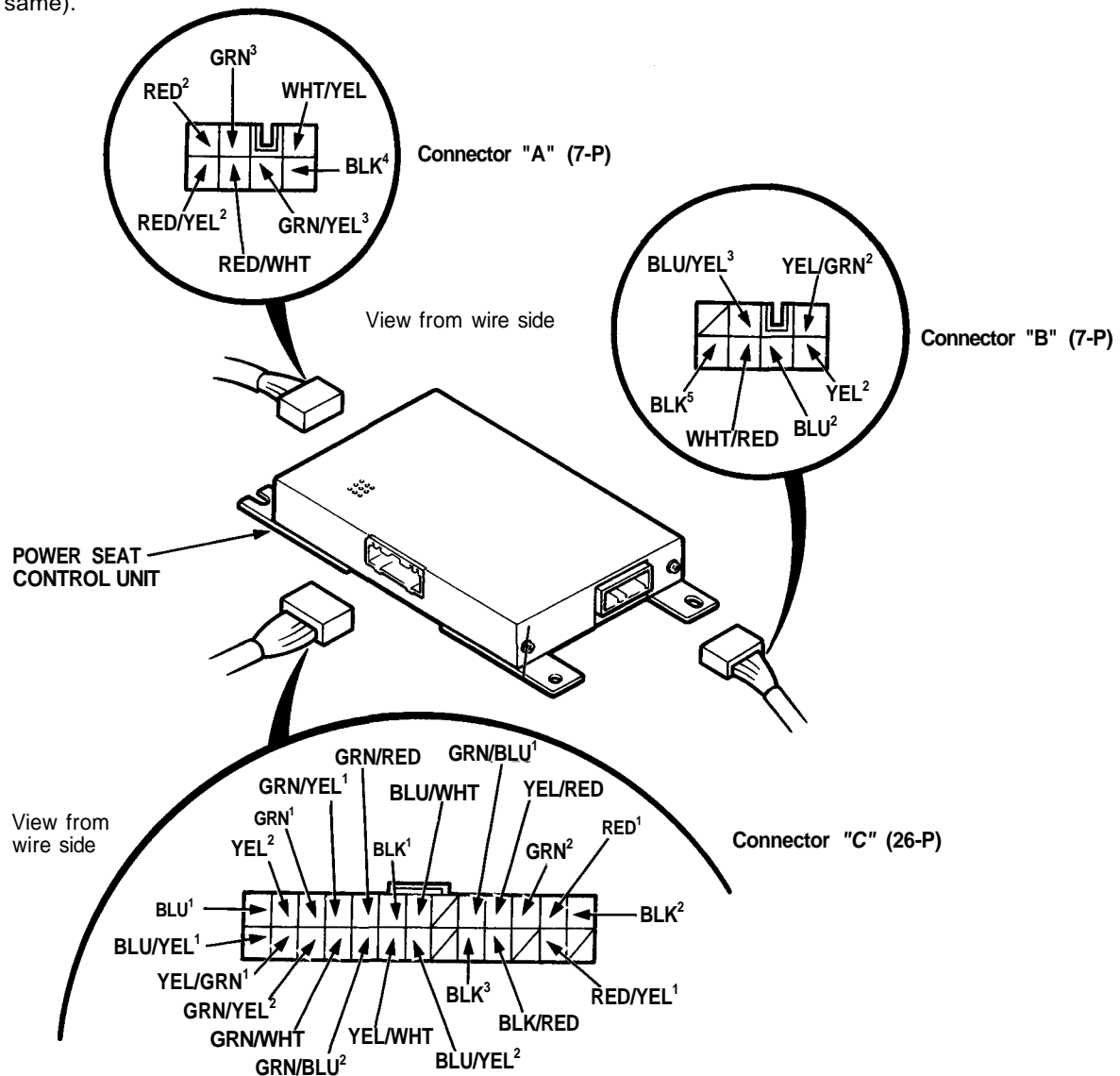
Power Seat Control Unit Input Test

Disconnect the connectors from the control unit. 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, make the following input tests at the 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.

NOTE:

- All views from the wire side.
- Different wires with the same color have been given a number suffix to distinguish them (for example, GRN/WHT¹ and GRN/WHT² are not the same).





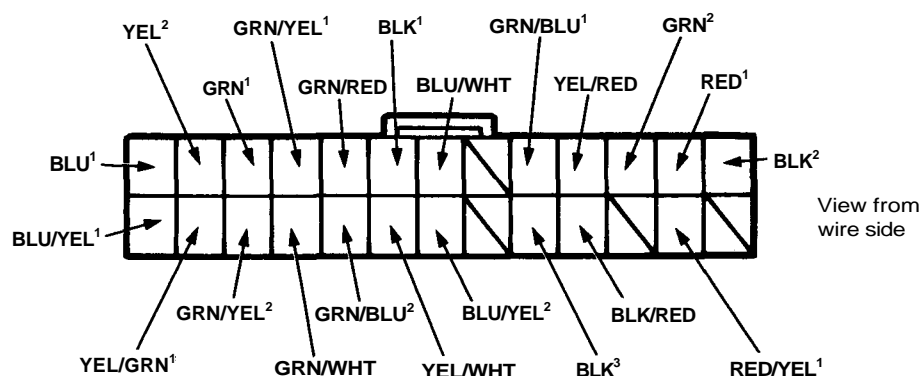
Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
1	A	BLK ⁴	Check for continuity to ground.	There should be continuity.	Open between connector A and G251
2	B	BLK ⁵	Check for continuity to ground.	There should be continuity.	Open between connector B and G251
3	B	WHT/RED	Check for battery voltage.	There should be battery voltage.	Blown No. 58 (30 A) fuse in the under-hood fuse/relay box, or open in the wire
4	A	RED/WHT	Check for battery voltage.	There should be battery voltage.	Blown No. 55 (30 A) fuse in the under-hood fuse/relay box, or open in the wire
5	A	WHT/YEL	Check for battery voltage.	There should be battery voltage.	Blown No. 34 (50 A) fuse in the under-hood fuse/relay box, No. 15 (7.5 A) fuse in the under-dash fuse/relay box, or an open in the wire
6	C	BLK/RED	Check for battery voltage with ignition switch OFF and ON.	There should be battery voltage only with ignition switch ON.	Blown No. 20 (7.5 A) fuse in the under-dash fuse/relay box, or open in the wire
7	C	GRN/BLU ¹	Driver's door open: Check for continuity to ground.	There should be continuity to ground.	Open in wire, or fault in door switch
			Driver's door closed: Check for continuity to ground.	There should be no continuity to ground.	Wire shorted to ground, or fault in door switch

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Power Seat Control Unit Input Test (cont'd)

Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
8	C	YEL/RED	Ignition switch ON; use an analog voltmeter: Connect \oplus probe to BLK/RED, and \ominus probe to YEL/RED, then rotate the front wheels.	Voltmeter should indicate 0-12V-0-12V repeatedly.	Open or short in wire, or fault in vehicle speed sensor (VSS)
9	C	YEL/WHT	MEMO button in neutral position: Check for continuity between the YEL/WHT and BLK ³ wires.	There should be no continuity.	Short in wiring, or fault in position memory switch
			MEMO button depressed: Check for continuity between the YEL/WHT and BLK ³ wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
10	C	BLU/WHT	Position button No. 1 in neutral: Check for continuity between the BLU/WHT and BLK ³ wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Position button No. 1 depressed: Check for continuity between the BLU/WHT and BLK ³ wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch



Connector "C" (26-P)



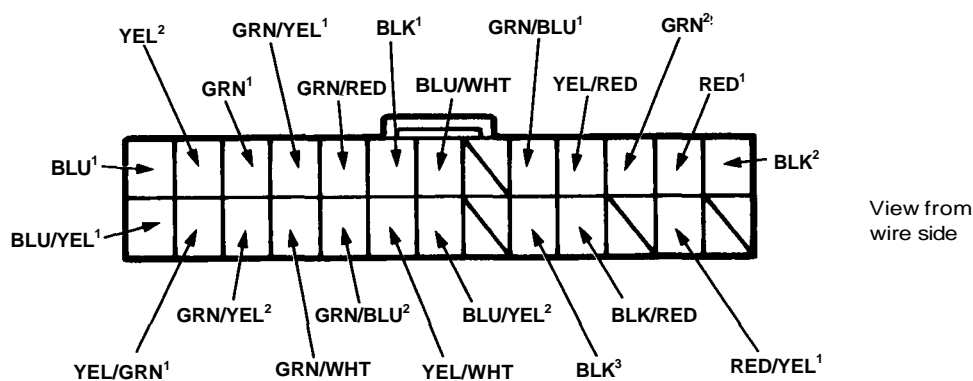
Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
11	C	BLU/YEL ²	Position button No. 2 in neutral: Check for continuity between the BLU/YEL ² and BLK ³ wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Position button No. 2 depressed: Check for continuity between the BLU/YEL ² and BLK ³ wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
12	C	GRN ¹	Front up-down switch in neutral: Check for continuity between the GRN ¹ and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Front up-down switch pushed up: Check for continuity between the GRN ¹ and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
13	C	GRN/YEL ²	Front up-down switch in neutral: Check for continuity between the GRN/YEL ² and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Front up-down switch pushed down: Check for continuity between the GRN/YEL ² and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch

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Power Seat Control Unit Input Test (cont'd)

Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
14	C	RED ¹	Rear up-down switch in neutral: Check for continuity between the RED ¹ and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Rear up-down switch pushed up: Check for continuity between the RED ¹ and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
15	C	RED/YEL ¹	Rear up-down switch in neutral: Check for continuity between the RED/YEL ¹ and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Rear up-down switch pushed down: Check for continuity between the RED/YEL ¹ and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
16	C	BLU ¹	Slide switch in neutral: Check for continuity between the BLU ¹ and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Slide switch pushed forward: Check for continuity between the BLU ¹ and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch



Connector "C" (26-P)



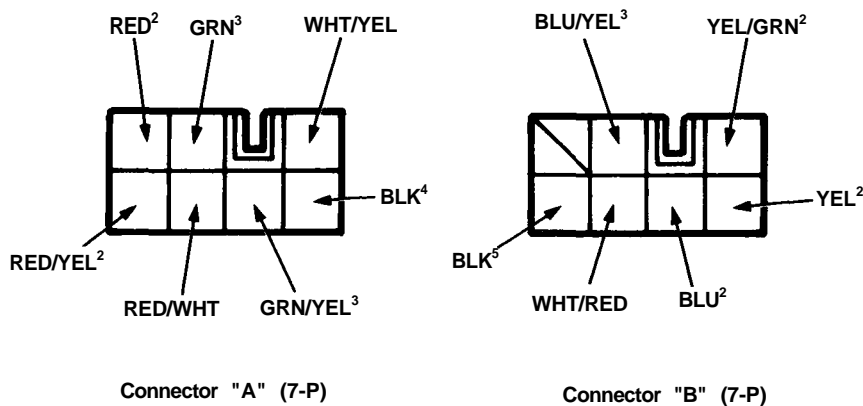
Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
17	C	BLU/YEL ¹	Slide switch in neutral: Check for continuity between the BLU/YEL ¹ and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Slide switch pushed backward: Check for continuity between the BLU/YEL ¹ and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
18	C	YEL ²	Recline switch in neutral: Check for continuity between the YEL ² and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Recline switch pushed forward: Check for continuity between the YEL ² and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
19	C	YEL/GRN ¹	Recline switch in neutral: Check for continuity between the YEL/GRN ¹ and BLK ² wire terminals.	There should be no continuity.	Short in wiring, or fault in position memory switch
			Recline switch pushed back: Check for continuity between the YEL/GRN ¹ and BLK ² wire terminals.	There should be continuity.	Open in wiring, or fault in position memory switch
20	C	GRN ²	Refer to seat back picture on page 23-310. Check continuity between the GRN ² and BLK ¹ wire terminals.	When seat back is in range A, there should be continuity; when in range B, there should be no continuity.	Open or short in wiring, or fault in recline limit switch

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Power Seat Control Unit Input Test (cont'd)

Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
21	2-P connector at front up-down motor	GRN/RED	All connectors connected; use an analog voltmeter. With the up-down motor running, backprobe the connector: ⊕ to GRN/RED, ⊖ to BLK ¹	Voltmeter should read 0-5V-0-5V repeatedly.	Open or short in wiring, or fault in the memory sensor
22	2-P connector at rear up-down motor	GRN/BLU ²	All connectors connected; use an analog voltmeter. With the up-down motor running, backprobe the connector: ⊕ to GRN/BLU ² ⊖ to BLK ¹	Voltmeter should read 0-5V-0-5V repeatedly.	Open or short in wiring, or fault in the memory sensor
23	2-P connector at slide motor	GRN/YEL ¹	All connectors connected; use an analog voltmeter. With the slide motor running, backprobe the connector: ⊕ to GRN/YEL ¹ ⊖ to BLK ¹	Voltmeter should read 0-5V-0-5V repeatedly.	Open or short in wiring, or fault in the memory sensor
24	2-P connector at recline motor	GRN/WHT	All connectors connected; use an analog voltmeter. With the recline motor running, backprobe the connector: ⊕ to GRN/WHT, ⊖ to BLK ¹	Voltmeter should read 0-5V-0-5V repeatedly.	Open or short in wiring, or fault in the memory sensor
25	A	GRN ³ and GRN/YEL ³	Jumper GRN ³ to RED/WHT, and GRN/YEL ³ to BLK ⁴	Front up-down motor should run.	Open or short in wiring, or fault in motor
			Reverse jumper leads.	Motor should run the other way.	



View from wire side



Test	Connector	Wire	Test condition	Desired result	Possible cause if result is not obtained
26	A	RED ² and RED/YEL ²	Jumper RED ² to RED/WHT, and RED/YEL ² to BLK ⁴	Rear up-down motor should run.	Open or short in wiring, or fault in motor
			Reverse jumper leads.	Motor should run the other way.	
27	B	BLU ² and BLU/YEL ³	Jumper BLU ² to WHT/RED, and BLU/YEL ³ to BLK ⁵	Slide motor should run.	Open or short in wiring, or fault in motor
			Reverse jumper leads.	Motor should run the other way.	
28	B	YEL ² and YEL/GRN ²	Jumper YEL ² to WHT/RED, and YEL/GRN ² to BLK	Recline motor should run.	Open or short in wiring, or fault in motor
			Reverse jumper leads.	Motor should run the other way.	