



# Technical Bulletin

**Model**  
928 S4

**Group**  
7

**Subject:** Troubleshooting Seat and Mirror Control System

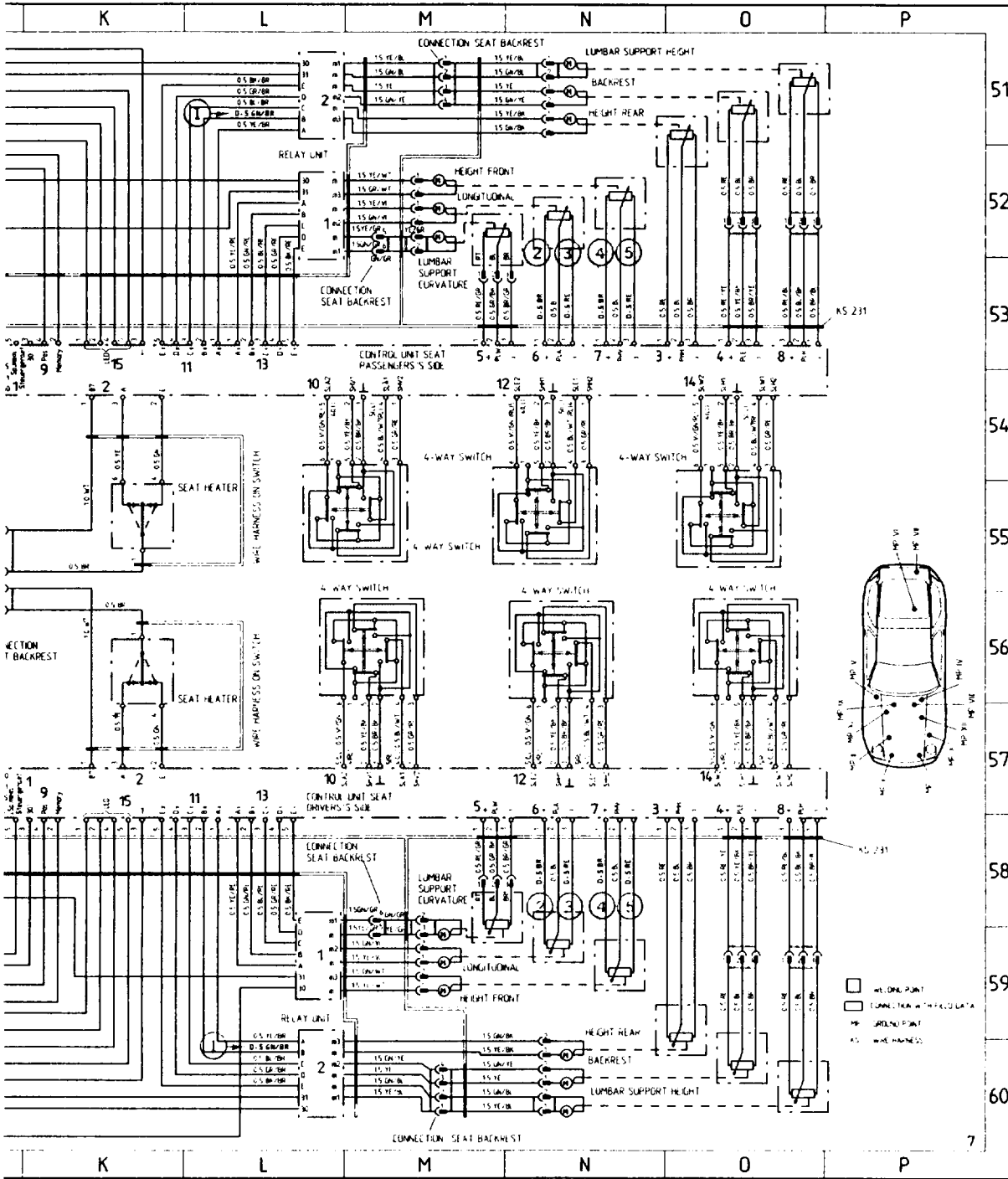
**Part Identifier**  
7293

**Number**  
8803

**Updated Wiring Diagram**

**Corrections:**

- 1- 0.5 GN/BR
- 2- 0.5 BR
- 3- 0.5 RE
- 4- 0.5 BR
- 5- 0.5 RE



CORRECTION DATA FOR 1988-1990



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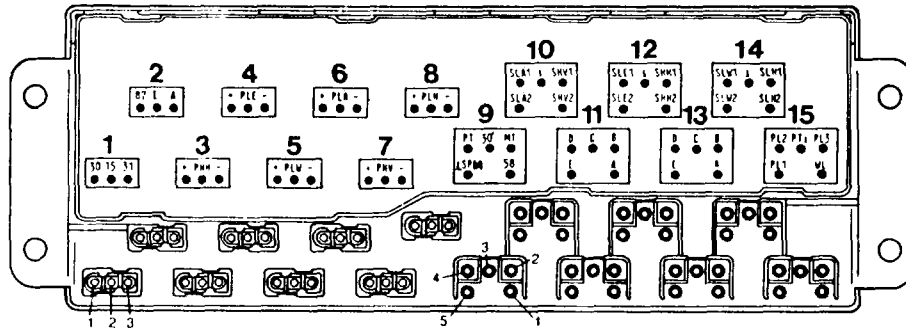
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## Terminal Designation Chart for Seat Adjustment



Plug	Terminal Designation	Pin
1	30 - Ter. 30	1
	15 - Ter. 15	2
	31 - Ter. 31	3
2	87 - Ter. 87, seat heating relay	1
	E - Tip switch, seat heating on	2
	A - Tip switch, seat seating off	3
3	+ - Potentiometer height rear +	1
	PHH - Potentiometer, height rear, pick-off	2
	- - Potentiometer, height rear -	3
4	+ - Potentiometer, backrest +	1
	PLE - Potentiometer, backrest, pick-off	2
	- - Potentiometer, backrest -	3
5	+ - Potentiometer, lumbar support shape +	1
	PLW - Potentiometer, lumbar support pick-off	2
	- - Potentiometer, lumbar support shape -	3
6	+ - Potentiometer, fore-and-aft adjustment +	1
	PLA - Potentiometer, fore-and-aft adj., pick-off	2
	- - Potentiometer, fore-and-aft adjustment -	3
7	+ - Potentiometer, height, front +	1
	PHV - Potentiometer, height, front, pick-off	2
	- - Potentiometer, height, front -	3
8	+ - Potentiometer, lumbar support, height +	1
	PLH - Potentiometer, lum. sup. height pick-off	2
	- - Potentiometer, lumbar support, height -	3
9	58 - Ter. 58	1
	MT - Memory key	2
	30' - Ter. 30 for mirror memory control unit	3
	PT - Position key	4
	-SPM - Ter. 31 for mirror memory control unit	5

Plug	Terminal Designation	Pin
10	SHV2 - Seat switch, height, front downward	1
	SHV1 - Seat switch, height, front upward	2
	+ - Ter. 31 for seat switch 1	3
11	SLA1 - Seat switch, fore-and-aft adjustment, toward rear	4
	SLA2 - Seat switch, fore-and-aft adjustment, toward front	5
	A - Relay unit 2	1
12	B - Relay unit 2	2
	C - Relay unit 2	3
	D - Relay unit 2	4
	E - Relay unit 2	5
	SHH2 - Seat switch, height, rear downward	1
13	SHH1 - Seat switch, height, rear upward	2
	+ - Ter. 31 for seat switch 2	3
	SLE1 - Seat switch, backrest, toward rear	4
	SLE2 - Seat switch, backrest, toward front	5
	A - Relay unit 1	1
14	B - Relay unit 1	2
	C - Relay unit 1	3
	D - Relay unit 1	4
	E - Relay unit 1	5
	SLH2 - Seat switch, lum. sup. height, downward	1
15	SLH1 - Seat switch, lum. sup. height, upward	2
	+ - Ter. 31 for switch 3	3
	SLW1 - Seat switch, lumbar support shape retract	4
	SLW2 - Seat switch, lumbar support shape extend	5
	WL - Pilot lamp	1
15	PL3 - Lamp for position key 3	2
	PT+ - Ter. 31 for operating switch	3
	PL2 - Lamp for position key 2	4
	PL1 - Lamp for position key 1	5

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## TROUBLESHOOTING

Make sure battery is fully charged before testing is started. Check and record voltage reading for future reference.

### Checking Seat Control System

1. Remove seat.
2. Lay seat on a protected surface near the car.
3. Connect adaptor cable (Special Tool 9269) (Fig. 1) between disconnected wiring harness plugs on car and seat. Terminal 30 (battery plus) and Terminal 31 (ground) can be picked off the 2 pole plug for some test steps. Use a voltmeter to identify + and - terminals.

Do not connect two pin plug to any seat harness plugs.

4. Store a seat position into memory with position key 1.
5. Detach control unit from seat frame and open flap.

### Checking Power Supply

6. Disconnect plug 1. Connect Voltmeter (+) to terminal 1 and (-) to terminal 3 in plug receptacle.

Reading: Battery voltage.

If no reading check:

Fuse 21 (Terminal 30) 1987 Model Year

Fuse 20 (Terminal 30) 1988 Model Year

If fuses are okay, check wiring.

Connect Voltmeter (+) to Terminal 2 and (-) to Terminal 3.

Switch on ignition.

Reading: Battery voltage.

If no reading check:

Fuse 7 (Terminal 15) 1987 model year

Fuse 8 (Terminal 15) 1988 model year.

If fuses are okay check wiring.

Switch off ignition and reconnect plug.

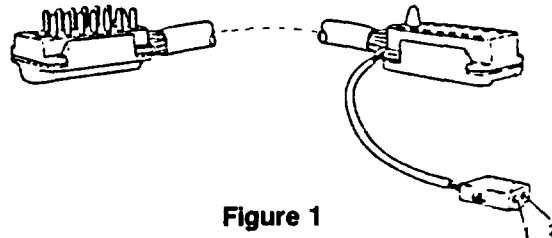


Figure 1

02 - AC-IM3A I-1102 0120 MICHIGAN



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## Checking Relay Units (continued)

17. Disconnect plug 13  
Connect Voltmeter (+) to plus on 2 pole plug of adaptor cable and . . .

a. (-) to terminal 1 of control unit. Press switch 1 up, switch 1 toward rear, switch 3 forward sequentially.

Reading: Battery voltage in each case.

b. (-) to terminal 2 of control unit. Press switch 1 forward, switch 1 down, switch 3 toward rear sequentially.

Reading: Battery voltage in each case.

c. (-) to terminal 3 of control unit. Press switch 3 forward, switch 3 toward rear sequentially.

Reading: Battery voltage in each case.

d. (-) to terminal 4 of control unit. Press switch 1 forward, switch 1 toward rear sequentially.

Reading: Battery voltage in each case.

e. (-) to terminal 5 of control unit. Press switch 1 up, switch 1 down sequentially.

Reading: Battery voltage in each case.

If values are not reached check wiring.

If wiring is okay replace relay unit. Refer to terminal designation chart on page 3 of this bulletin for plug-relay unit application

## Checking Control Unit

18. Remove cover of plug 15.

Leave plug connected.

Connect Voltmeter (-) to ground on 2 pole plug of adaptor cable and (+) to terminal 1 of plug 15.

Press position key 2 or 3 briefly.

Reading: Battery voltage.

Connect Voltmeter to plus (+) on 2 pole plug of adaptor cable and terminal 3 of plug 15.

Reading: Battery voltage

19. Switch on lights.

Connect Voltmeter (-) to ground on 2 pole plug of adaptor cable and (+) to terminal 2 of plug 15.

Press position key 3 and move seat to position stored in memory.

Reading: Approximately 1.8 V

20. Connect Voltmeter (-) to ground on 2 pole plug of adaptor cable and (+) to terminal 4 of plug 15.

Press position key 2 and move seat to position stored in memory.

Reading: approximately 1.8 V

21. Connect Voltmeter (-) to ground on 2 pole plug of adaptor cable and (+) to terminal 5 of plug 15.

Press position key 1 and move seat to position stored in memory.

Reading: approximately 1.8 V

Switch off lights.

If values are not reached check wiring. If wiring is okay replace control unit.

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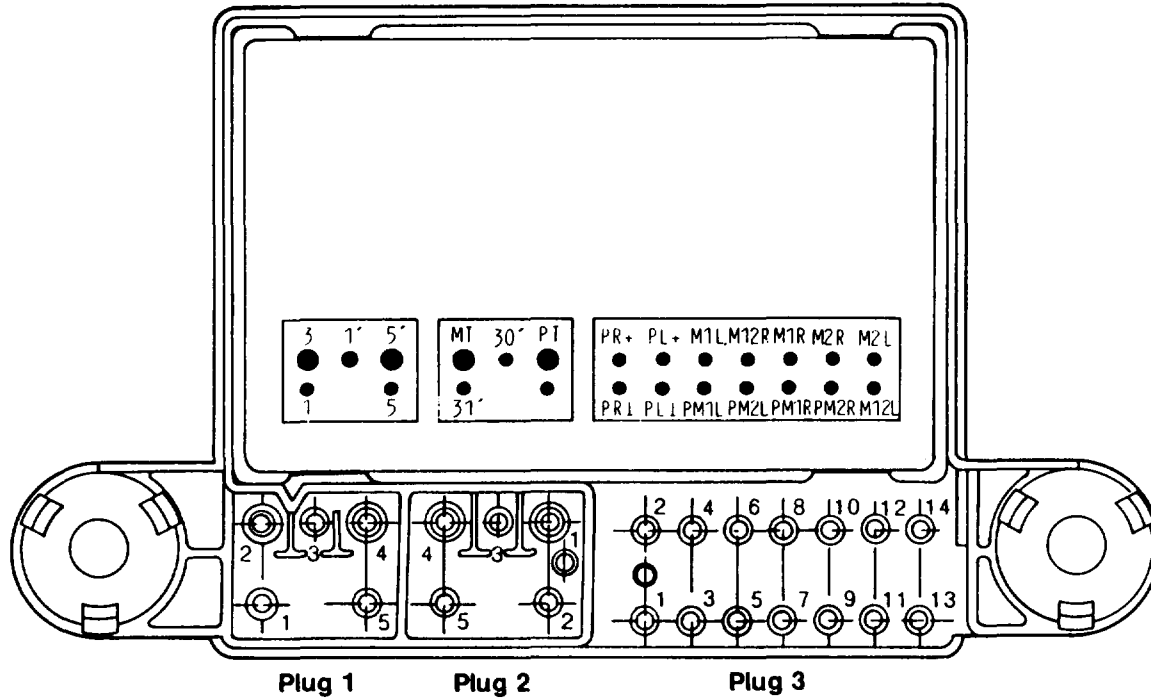
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## PLUG ASSIGNMENT, CONTROL UNIT FOR MIRROR ADJUSTMENT



Plug	Terminal Designation	Pin
1	1 - Driver's side mirror left/right	1
	3 - Polarity, motor 1/2	2
	1' - Passenger-side mirror, left/right	3
	5' - Passenger-side mirror, up/down	4
	5 - Driver's mirror, up/down	5
2	PT - Position keys	1
	not occupied	2
	30' - Ter. 30 from seat memory control unit	3
	MT - Memory key	4
	31' - Ter. 31 from seat memory control unit	5

Plug	Terminal Designation	Pin
3	PR - - Potentiometer right -	1
	PR + - Potentiometer right +	2
	PL - - Potentiometer left -	3
	PL + - Potentiometer left +	4
	PL1L - Potentiometer, motor 1 left	5
	M1L - Motor 1 left	6
	PM2L - Potentiometer, motor 2 left	7
	M12R - Motor 1/2, right	8
	PM1R - Potentiometer, motor 1 right	9
	M1R - Motor 1, right	10
	PM2R - Potentiometer, motor 2 right	11
	M2R - Motor 2, right	12
	M12L - Motor 1/2, left	13
	M2L - Motor 2, left	14

left - driver's-side mirror

right - passenger-side mirror

motor 1 - vertical travel

motor 2 - horizontal travel



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DO NOT WRITE IN THESE SPACES



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## Checking Mirror Control System

1. Store mirror position into memory with position key 1.
2. Detach mirror control.

The mirror control unit is mounted on the side wall in the driver's side footwell beside the ABS control unit.

## Checking Mirror Control Switches

3. Disconnect plug 1.
4. Set mirror selector switch to driver side mirror.
5. Connect Voltmeter (+) to terminal 1 and (-) to terminal 2 of plug receptacle.  
Push mirror adjuster switch to left.

Reading: Battery voltage.

Connect Voltmeter (-) to terminal 1 and (+) to terminal 2.

Push mirror adjuster switch to right.

Reading: Battery voltage.

6. Connect Voltmeter (+) to terminal 5 and (-) to terminal 2.  
Push mirror adjuster switch up.

Reading: Battery voltage.

Connect Voltmeter (-) to terminal 5 and (+) to terminal 2.

Push mirror adjuster switch down.

Reading: Battery voltage.

7. Set mirror selector switch to passenger side mirror.

8. Connect Voltmeter (+) to terminal 3 and (-) to terminal 2.

Push mirror adjuster switch to left.

Reading: Battery voltage.

Connect Voltmeter (-) to terminal 3 and (+) to terminal 2.

Push mirror adjuster switch to right.

Reading: Battery voltage.

9. Connect Voltmeter (+) to terminal 4 and (-) to terminal 2.

Push mirror adjuster switch up.

Reading: Battery voltage.

Connect Voltmeter (-) to terminal 4 and (+) to terminal 2.

Push mirror adjuster switch down.

Reading: Battery voltage.

If values are not reached, check wiring and mirror selector and adjuster switches.

Reconnect plug 1.

## Checking Memory Switch and Power Supply

10. Disconnect plug 2 from mirror control unit.

Disconnect plug 9 from seat memory control unit.

Connect ohmmeter to ground and terminal 1 of plug receptacle.

Press position key 1.

Reading: 0-2 ohms.

Press position key 2.

Reading: approximately 240 ohms.

Press position key 3.

Reading: approximately 820 ohms.

Reconnect plug 9 on seat memory control unit.

11. Connect ohmmeter to ground and terminal 4.

Press memory key.

Reading: 0-2 ohms.

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