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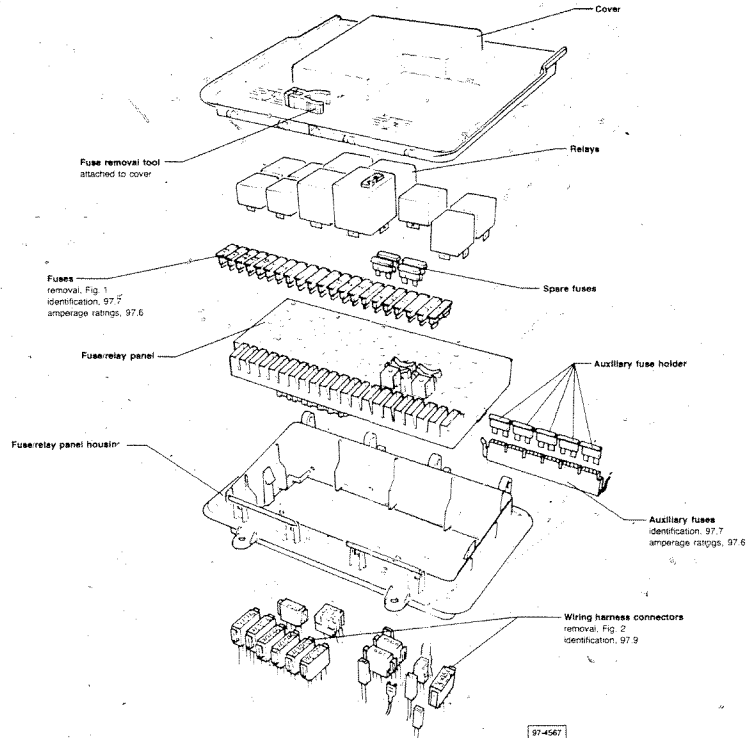
CAUTION

Before working on any part of electrical system disconnect battery ground strap.

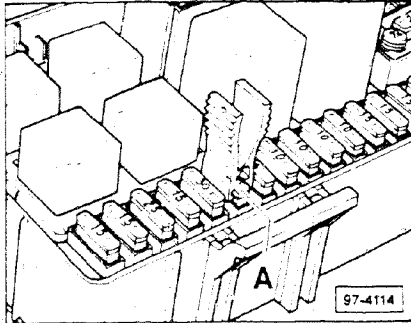
CAUTION

On vehicles with Delta radios, before disconnecting the battery or in any other way interrupting the power to the radio.

- ask the customer if the radio is coded with a personal anti-theft code
- be sure the customer has recorded personal code
- be sure customer understands how to enter personal code to make radio work again

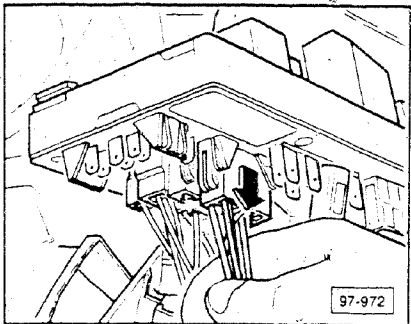


Electrical System – Wiring



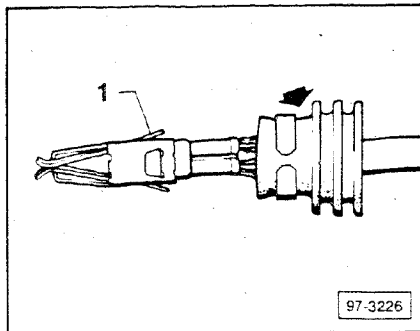
► Fig. 1 Fuses, removal

- remove special tool from fuse/relay panel cover
- grab fuse with special tool and pull



► Fig. 2 Connector housings, removal from fuse/relay panel

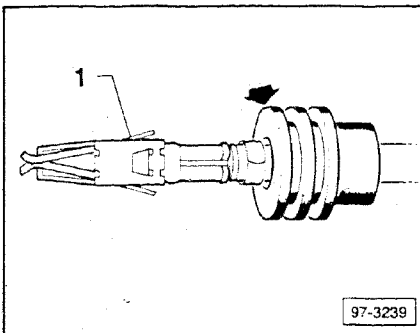
- hold wires and housing firmly and pull in direction of arrow



Connector terminal rubber insulating grommet, modifying

A rubber insulating grommet (**arrow**) is installed on some connector terminals at the factory. During wiring repair, the rubber insulating grommet must be reversed before re-inserting into the connector housing.

- remove and discard terminal 1
- slide rubber insulating grommet from wire and rotate end-to-end (180°)
- inspect grommet and replace if damaged

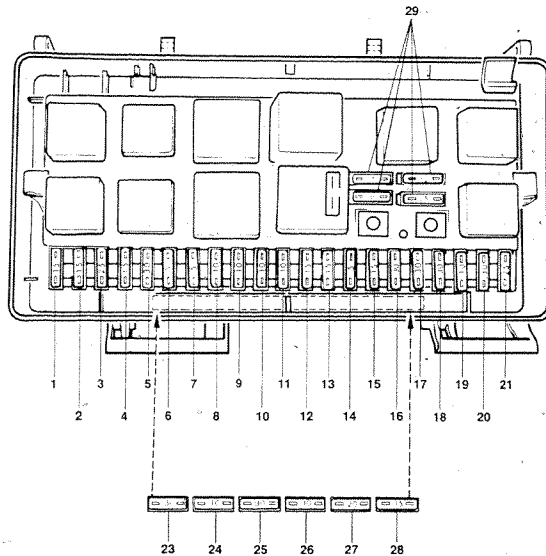


CAUTION

New replacement grommet must be the same color as original to ensure proper sealing between wire, grommet and housing.

- reinstall grommet onto wire so that collar (**arrow**) faces terminal 1
- properly crimp new terminal 1 to wire

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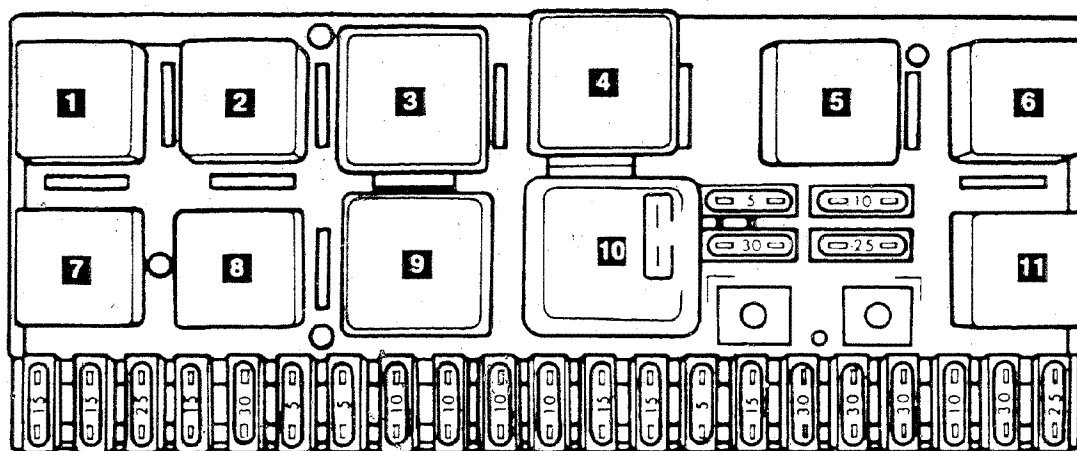


97-569

Fuse locations and identification

Fuse	Description	Amps
1	Fog lights, rear fog lights	15
2	Emergency flashers	15
3	Horn, brake lights	25
4	Reading lights, luggage compartment, cigar lighter, interior lights, make-up mirror, Board Computer	15
5	Not used	30
6	Side marker, park lights, right	5
7	Side marker, park lights, left	5
8	Hi-beam headlight, hi-beam indicator light	10
9	Hi-beam headlight, left	10
10	Low beam headlight, right	10
11	Low beam headlight, left	10
12	Instrument cluster, back-up lights, cruise control, electronic thermostat	15
13	Fuel pump	15
14	Glove compartment, engine compartment, license plate lights	5
15	Windshield wipers	25
16	Rear window heat element, outside mirror heat element	30
17	Fresh air blower	30
18	Rear wiper (wagon)	5
19	Central locking system and fuel injection control unit 100, 100 Quattro	10
20	Heated seats with Memory Seat	30
21	Not used	25
22	Not used	
23	Not used	30
24	Not used	10
25	Power seats with memory, passenger power seat	30
26	Auto-Check, power mirrors, driver's seat memory control	5
27	Ignition control unit 100, 100 Quattro	10
28	Fuel injection control unit II	15
29	Spare fuses	

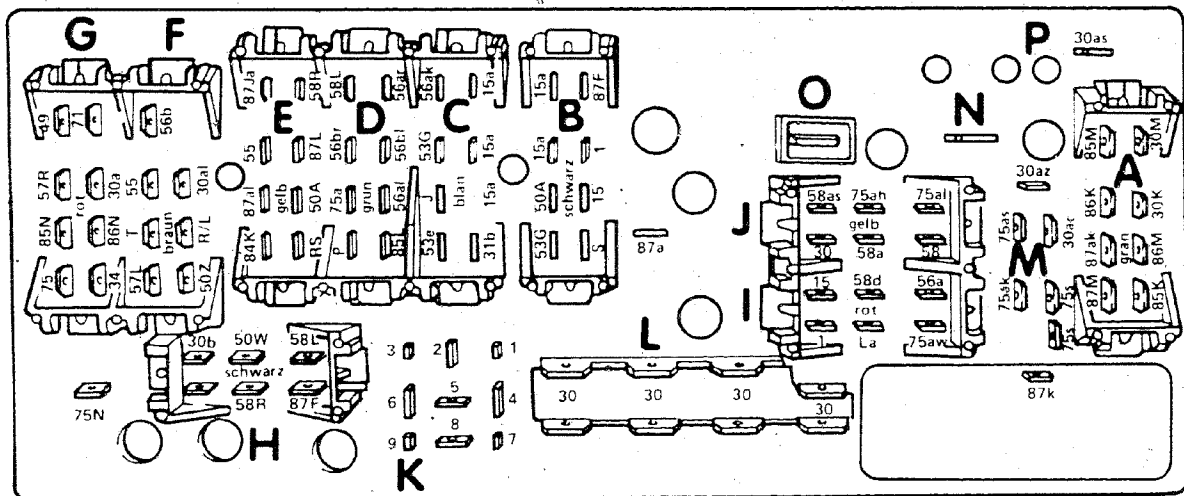
Electrical System – Wiring



97-4568 1

- | | |
|--|------------------------------------|
| 1 Open | 8 Anti-theft relay |
| 2 Radiator cooling fan (stage 2) | 9 Intermittent washer/wiper |
| 3 100 models — radiator cooling fan after-run | 10 Fuel pump |
| 3 200 models — radiator cooling fan (stage 1) | 11 A/C relay |
| 4 not used | |
| 5 Load reduction relay | |
| 6 not used | |
| 7 Horn | |

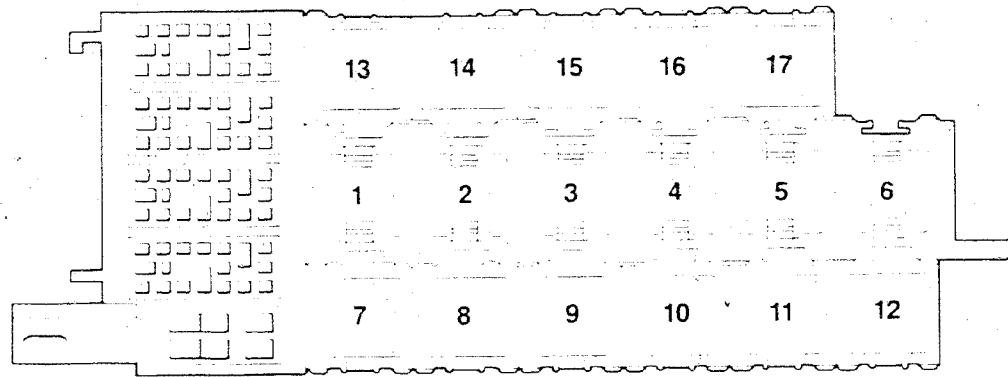
Electrical System – Wiring



97-4570

- | | |
|--|--|
| A — Air conditioning connector color: gray | I — Instrument panel connector color: red |
| B — Right front wiring harness connector color: black | J — Instrument panel connector color: yellow |
| C — Instrument panel connector color: blue | K — Connected to relay 3 connector color: black |
| D — Left front wiring harness connector color: green | L — Single connector (terminal 30) connector color: colorless |
| E — Left front wiring harness connector color: yellow | M — For optional equipment connector color: colorless |
| F — Instrument panel connector color: brown | N — not used |
| G — Instrument panel connector color: red | O — not used |
| H — Rear wiring harness connector color: black | P — To fuse 20 |

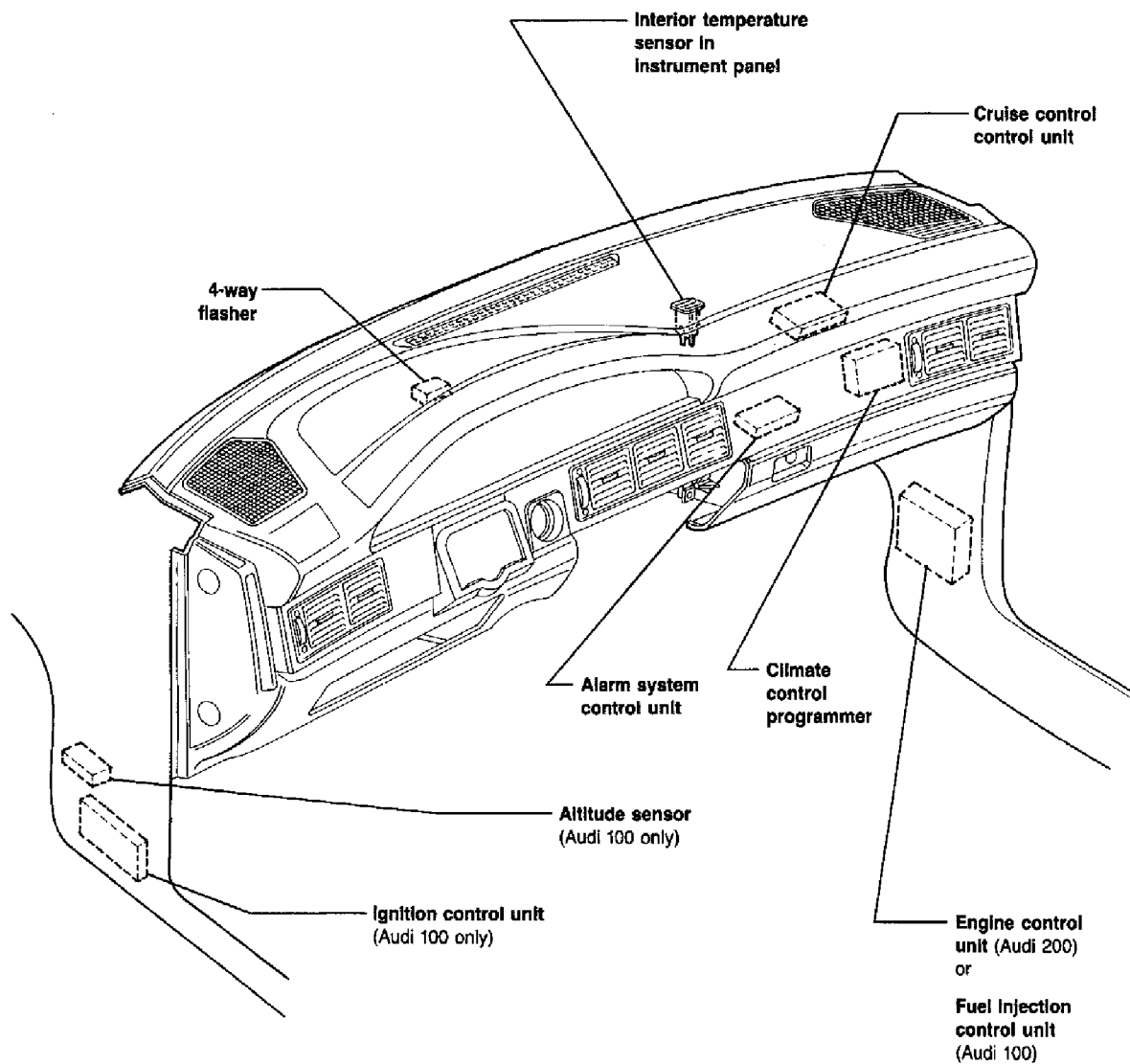
Electrical System – Wiring



97-4119a

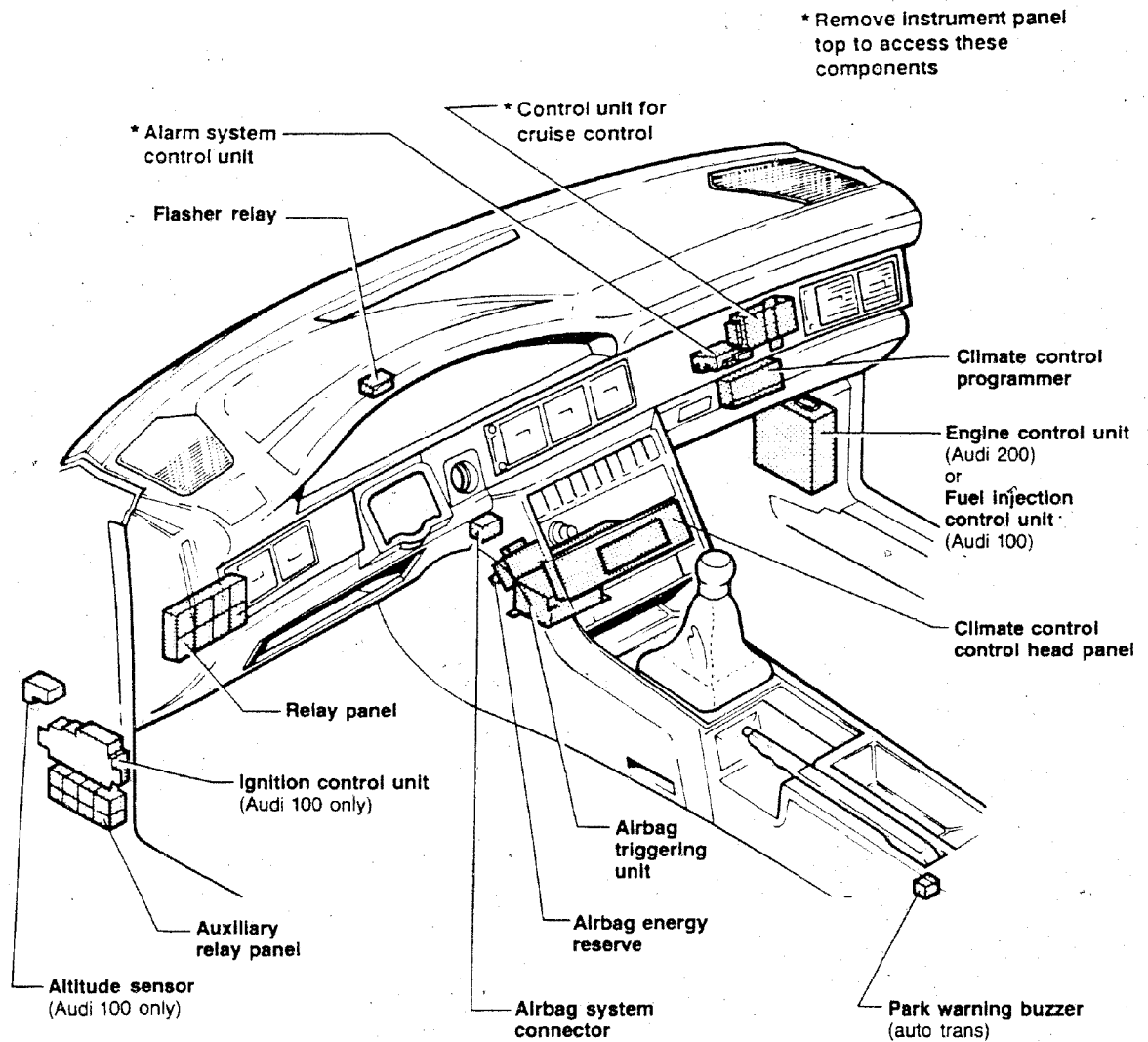
- | | |
|--|--|
| 1 Open | 10 Power window control unit |
| 2 Seat belt/park light/radio warning control unit | 11 Power window control unit |
| 3 Interior light delay control unit | 12 Rear window wiper/washer relay |
| 4 Open | 13 Open |
| 5 Lamp control unit, front | 14 Circuit breaker for windows |
| 6 Open | 15 Driver heated seat relay |
| 7 Rad coolant fan relay 3rd stage | 16 Passenger heated seat relay |
| 8 ABS combination relay | 17 Open |
| 9 Intensive washer relay | |

Electrical System – Wiring



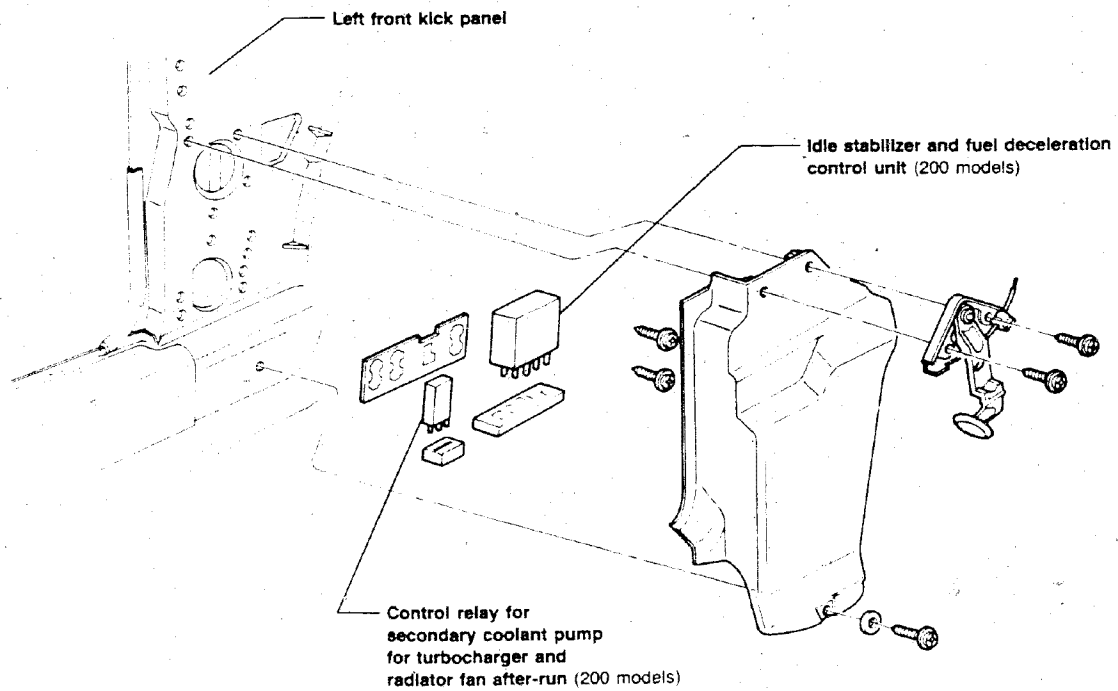
97-A449

Electrical System – Wiring

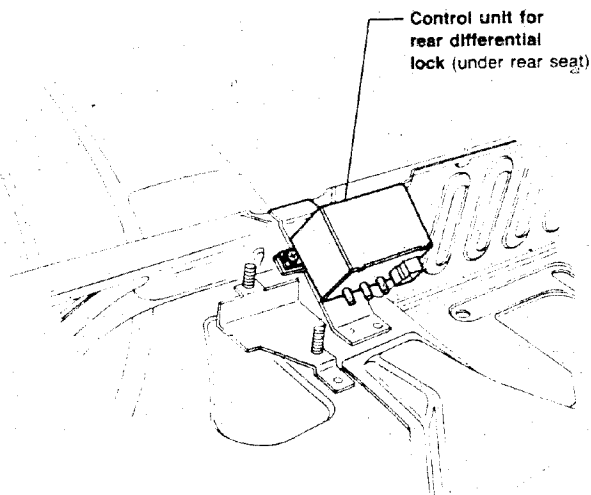


96-464

Electrical System – Wiring

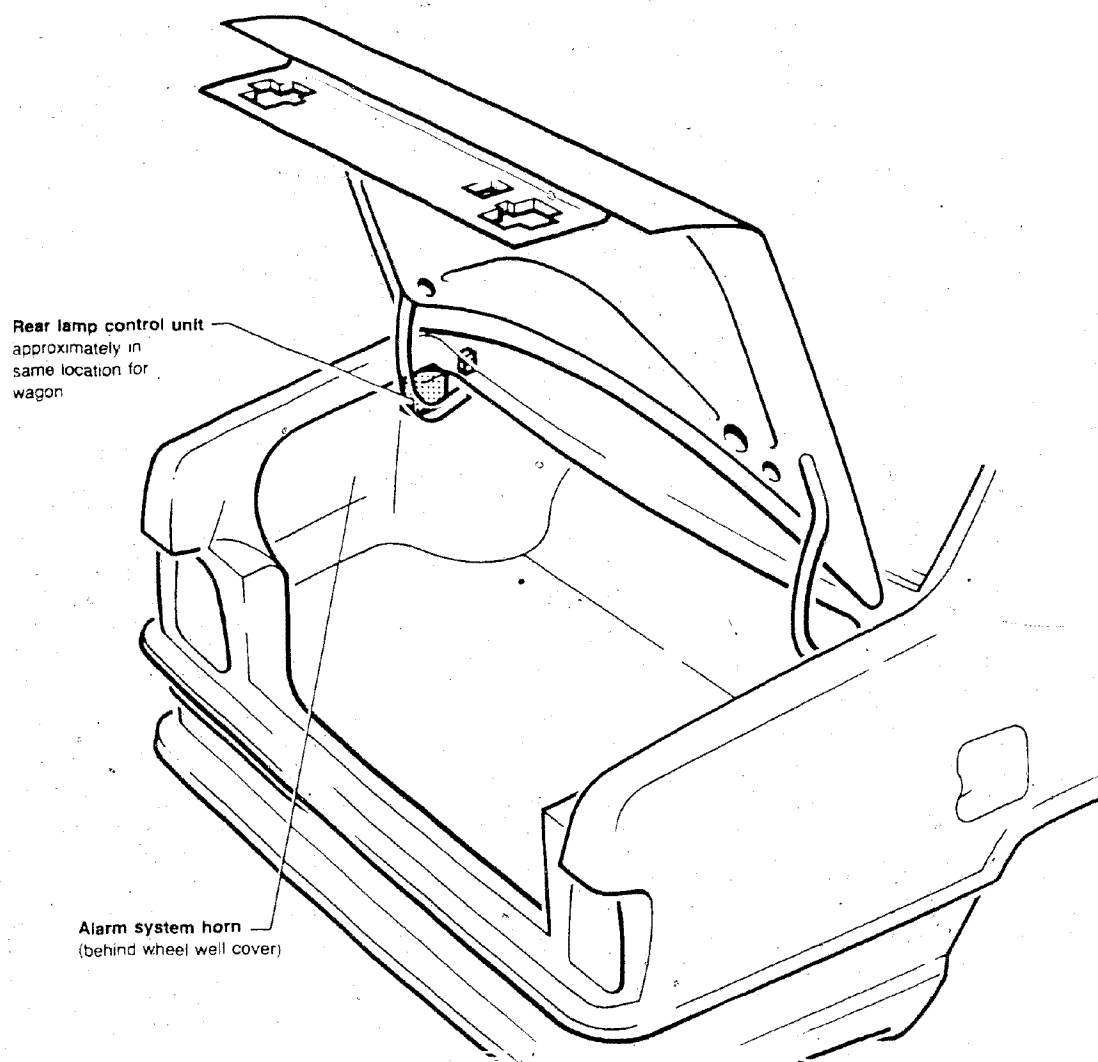


97-A450



97-A451

Electrical System – Wiring

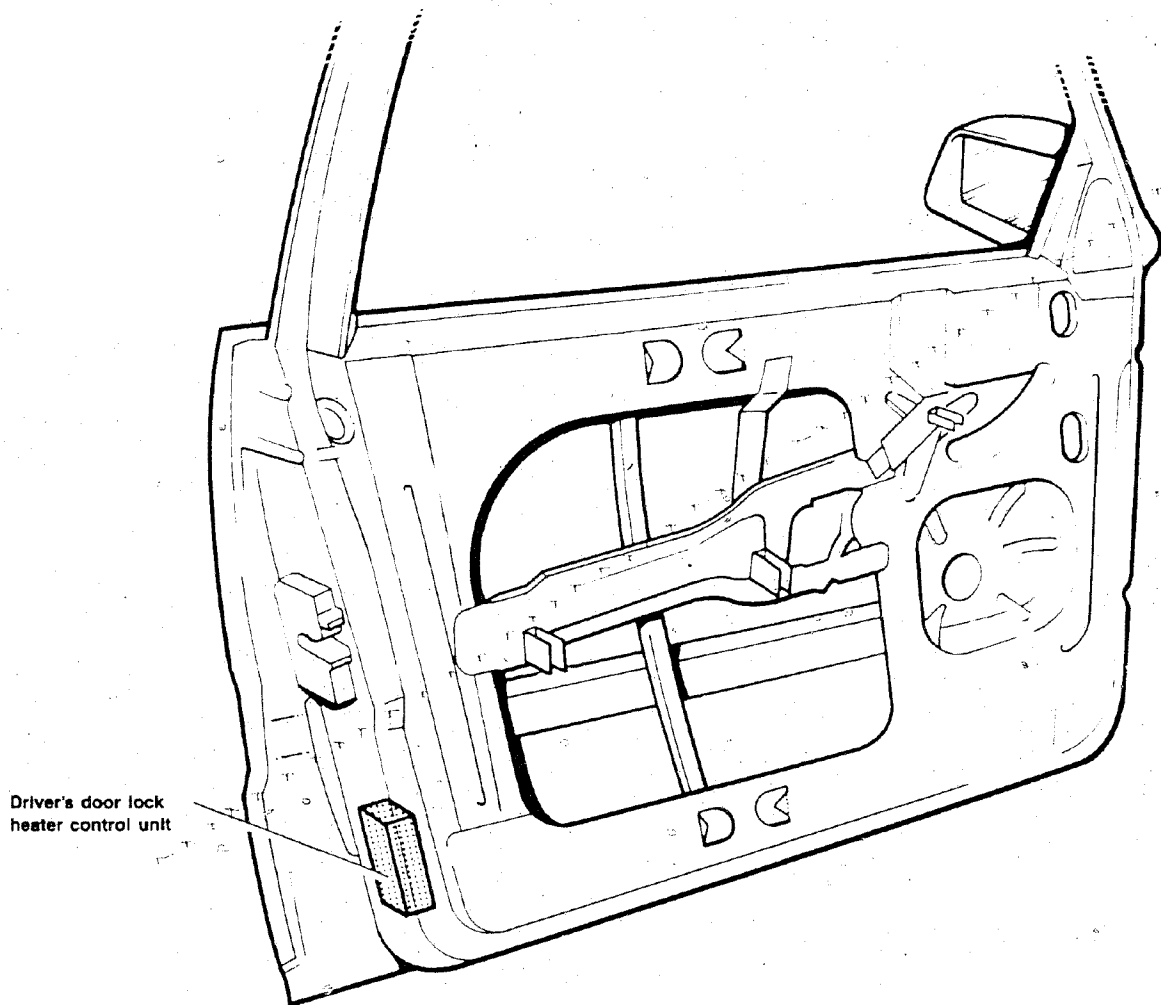


96-466

Electrical System – Wiring

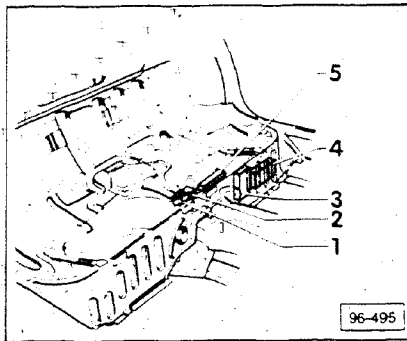
Note

There is also a door lock heater control unit in the passenger door.



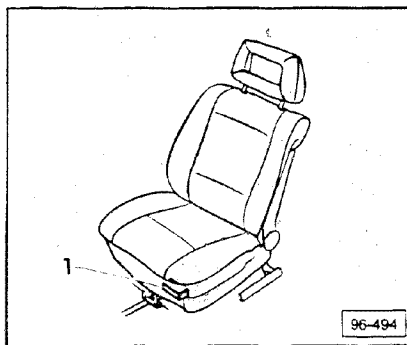
96-465

Electrical System — Wiring

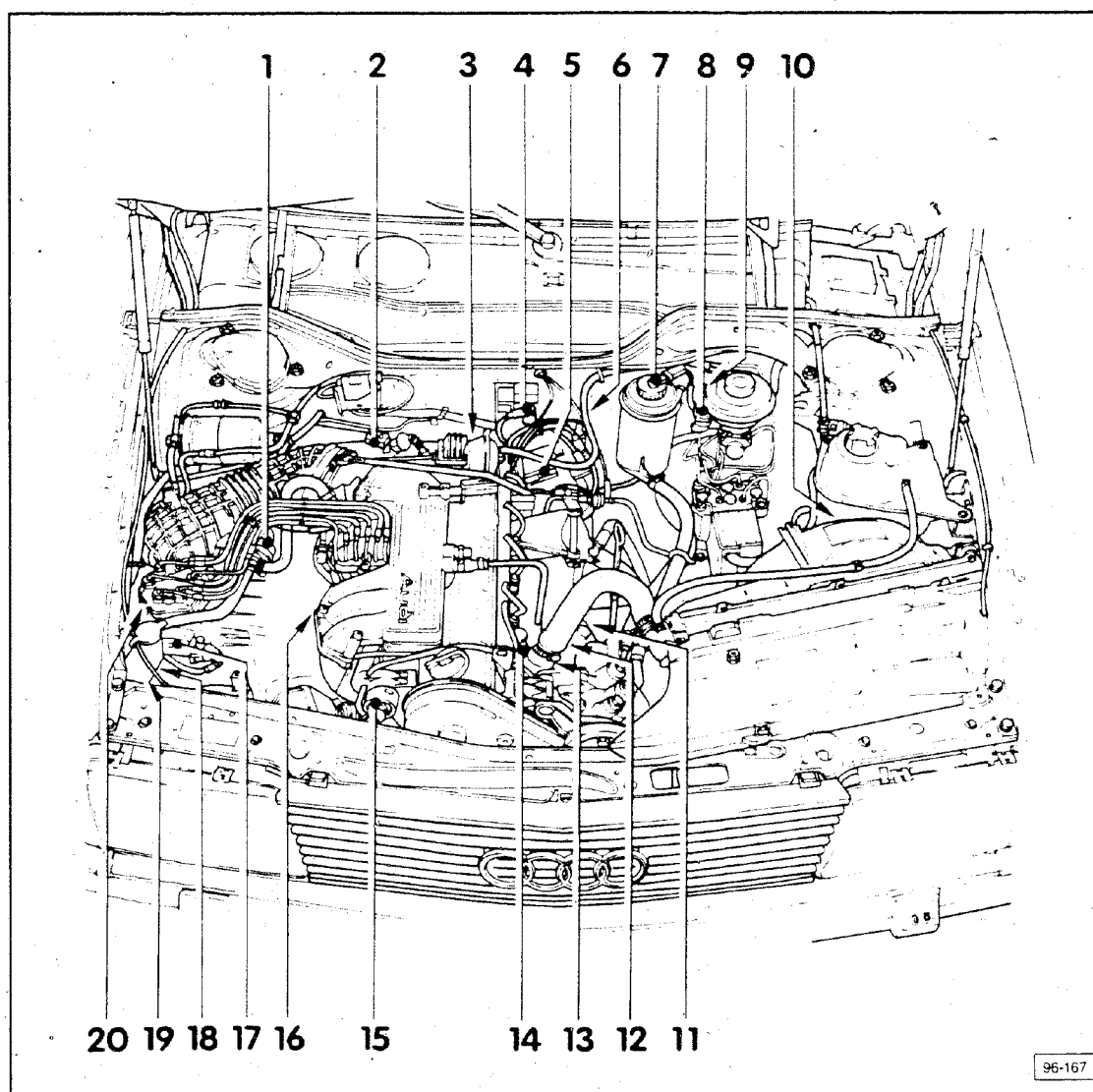


► Fig. 1. Control units under rear seat

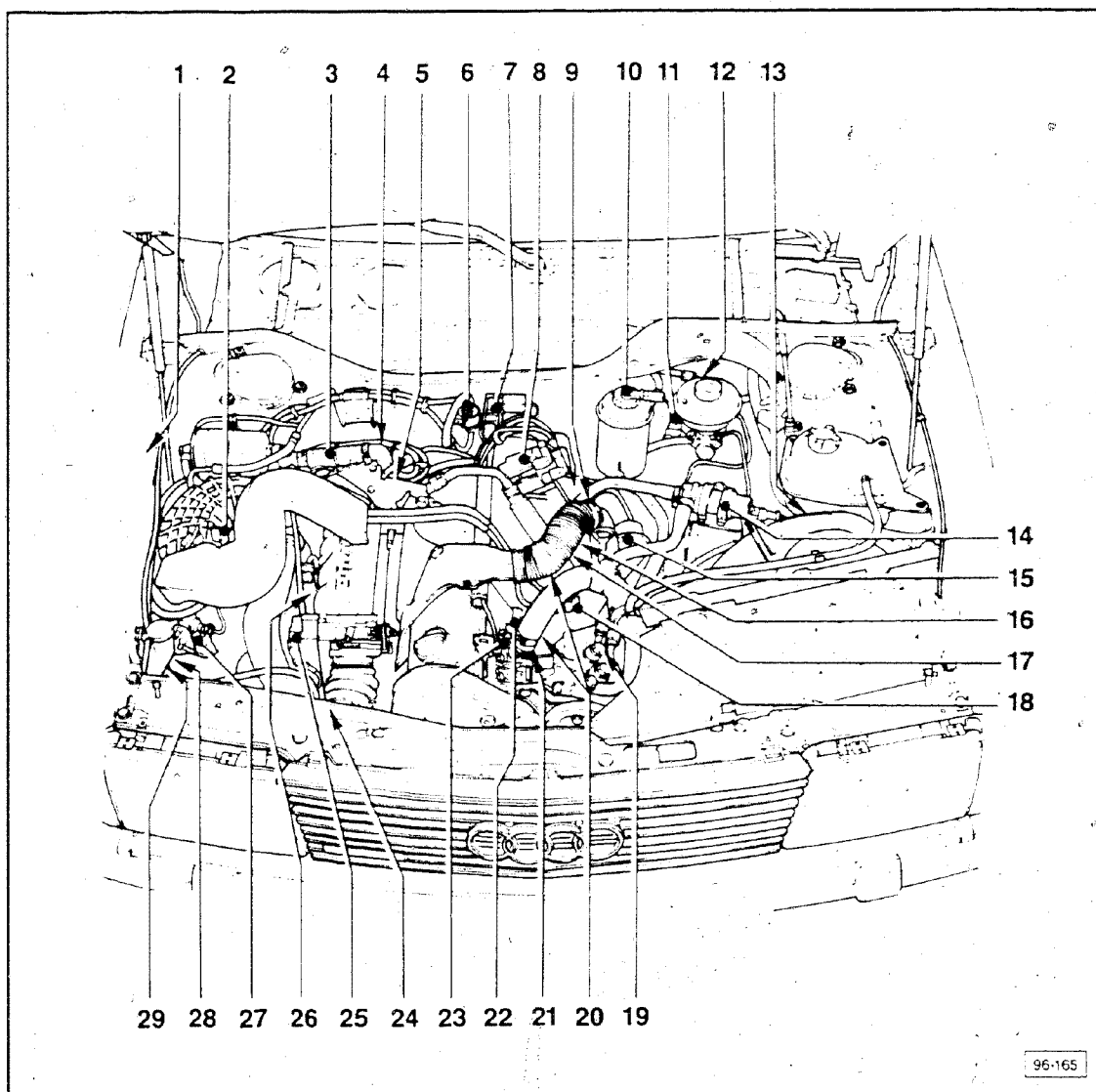
- 1 — Rear differential lock control unit
- 2 — Longitudinal acceleration switch (ABS)
- 3 — Air bag voltage transformer
- 4 — ABS control unit
- 5 — Rear speaker amplifiers (wagon only)



► Fig. 2. Power seat memory control unit



- | | |
|--|--|
| 1 — Carbon canister frequency valve, N80 | 11 — Knock sensor I, G61 |
| 2 — Idle switch/Full throttle switch, F60/F81 | 12 — Engine oil pressure switches 0.3 bar/1.8 bar, F22/F1 |
| 3 — Oxygen sensor/Oxygen sensor heater, G39/Z19 | 13 — Electronic thermost switch (multi-function temperature sensor), F76 |
| 4 — Ignition coil/Ignition coil power stage, N/N70 | 14 — Coolant temperature sensor, G62 |
| 5 — Ignition distributor/Hall sender, O/G40 | 15 — Idle stabilizer valve, N71 |
| 6 — Speedometer sender, G22 | 16 — Cold start valve, N17 |
| 7 — Hydraulic fluid low level sensor, F75 | 17 — Differential pressure regulator, N73 |
| 8 — Brake fluid level warning contact, F34 | 18 — Windshield washer fluid level warning switch, F77 |
| 9 — Hydraulic fluid pressure warning contact, F21 | 19 — Windshield washer pump, V5 |
| 10 — Coolant low level warning switch, F66 | 20 — Air mass sensor potentiometer, G19 |



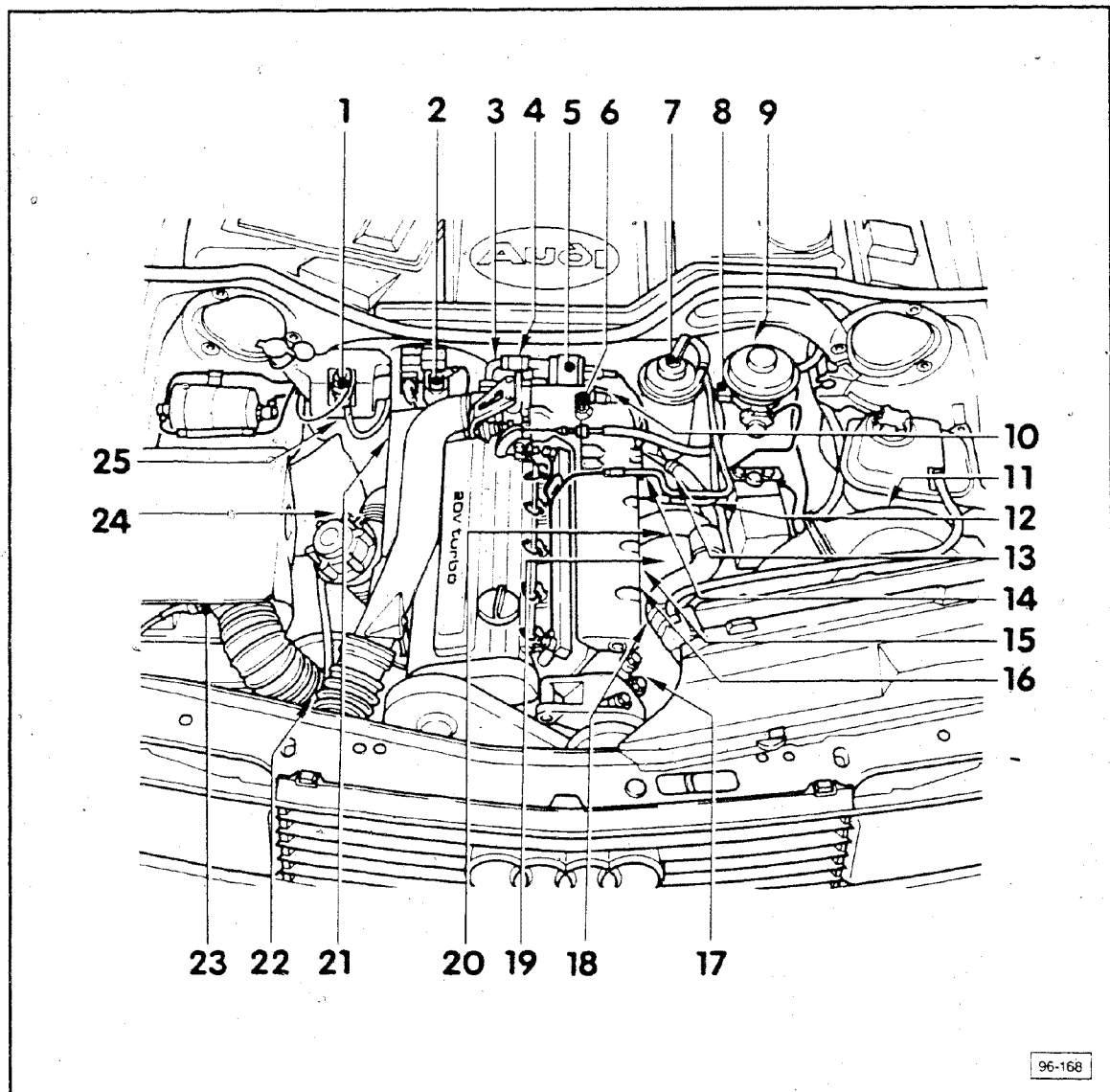
- 1 — Deceleration fuel cut-off valve, N65
- 2 — Carbon canister frequency valve, N80
- 3 — Idle stabilizer valve, N71
- 4 — Radiator cooling fan thermoswitch, F54
- 5 — Cold start valve, N17
- 6 — Wastegate frequency valve (boost pressure limiting valve), N75
- 7 — Ignition coil/ignition coil power stage, N/N70
- 8 — Ignition distributor/Hall sender, O/G40
- 9 — Speedometer sender, G22

- 10 — Hydraulic fluid low level sensor, F75
- 11 — Brake fluid level warning contact, F34
- 12 — Hydraulic fluid pressure warning contact, F21
- 13 — Coolant low level warning switch, F66
- 14 — Turbo coolant pump, V51
- 15 — Injector cooling fan (turbo), V38
- 16 — Engine speed sensor, G28
- 17 — Ignition timing (reference) sensor, G4
- 18 — Control pressure regulator, N9

Electrical System — Wiring

- 19 — Oil temperature sensor Oil pressure sensor, G8 G10
- 20 — Knock sensor I. Knock sensor II, G61 G66
- 21 — Turbo coolant pump thermoswitch, F98
- 22 — Coolant temperature sensor, G62
- 23 — Radiator cooling fan thermoswitch, F18
- 24 — Intake air temperature sensor, G42
- 25 — Idle switch Full throttle switch, F60 F81
- 26 — Oxygen sensor Oxygen sensor heater, G39 Z19
- 27 — Oxygen sensor frequency valve, N7
- 28 — Windshield washer fluid level warning switch, F77
- 29 — Windshield washer pump, V5

Electrical System — Wiring



- | | |
|--|---|
| 1 — Windshield washer pump, V5 | 11 — Coolant low level warning switch, F66 |
| 2 — Ignition coil/ignition coil power stage, N/N70 | 12 — Ignition timing (reference) sensor, G4 |
| 3 — Throttle valve potentiometer, G69 | 13 — Engine speed sensor, G28 |
| 4 — Carbon canister frequency valve, N80 | 14 — Knock sensor II, G66 |
| 5 — Idle stabilizer valve, N71 | 15 — Knock sensor I, G61 |
| 6 — Intake air temperature sensor, G42 | 16 — Engine oil temperature sensor, G8 |
| 7 — Hydraulic fluid low level sensor, F75 | 17 — Engine oil pressure sensor, G10 |
| 8 — Brake fluid level warning contact, F34 | 18 — Engine oil pressure switches 0.3 bar/1.8 bar, F22/F1 |
| 9 — Hydraulic fluid pressure warning contact, F21 | 19 — Electronic thermoswitch (multi-function temperature sensor), F76 |
| 10 — Speedometer sender, G22 | |

- 20 — Radiator cooling fan thermoswitch, F18/F54
- 21 — Coolant temperature sensor, G62
- 22 — Wastegate frequency valve (boost pressure limiting valve), N75
- 23 — Air mass sensor, G70
- 24 — Oxygen sensor/Oxygen sensor heater, G39/Z19
- 25 — Windshield washer fluid level warning switch, F77