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Audi A6 **Current Flow Diagram** No. 90/1 **Edition 08.2008**

Air conditioning system • Basis

- Convenience from model year 2007

Notes:

For information concerning

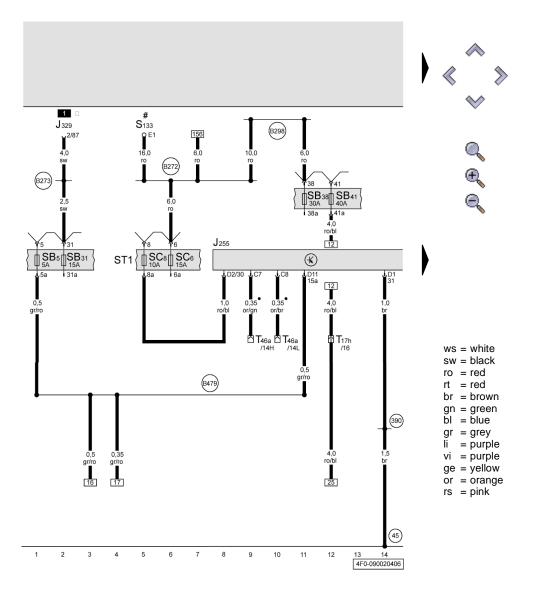
- Position of relays and fuses
- ♦ Multi-pin connections
- Control units and relays
- ♦ Earth connections
- → List of Fitting Locations!

For information concerning

- ♦ Fault Finding Programs
- → guided fault finding

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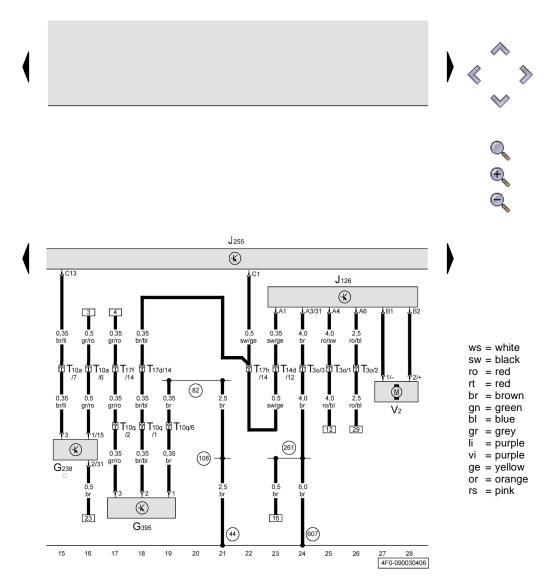


No. 90/2 **Current Flow Diagram**

- Climatronic control unit, fuses J255 Climatronic control unit
- J329 - Terminal 15 voltage supply relay 🔕
- S133 - Fuse 3 💩
- SB5 - Fuse 5 on fuse holder B
- SB31 Fuse 31 on fuse holder B
- SB38 Fuse 38 on fuse holder B
- SB41 - Fuse 41 on fuse holder B 🔕
- SC6 - Fuse 6 on fuse holder C
- SC8 - Fuse 8 on fuse holder C 💩
- T17h ⁻ 17-pin connector, orange, coupling station on electronics box, left in plenum chamber
- T46a - 46-pin connector, CAN separating connector left
- Earth point, centre behind dash panel 45
- Earth connection 25, in main wiring harness 390
- Positive connection (30), in main wiring harness B272
- Positive connection (15), in main wiring harness B273
- Positive connection 2 (30), in main wiring harness B298
- Connection 15 in main wiring harness B479
- CAN bus (data wire)
- 9-point relay carrier, behind driver storage compartment
- main fuse box, in luggage compartment, rear right, on the battery

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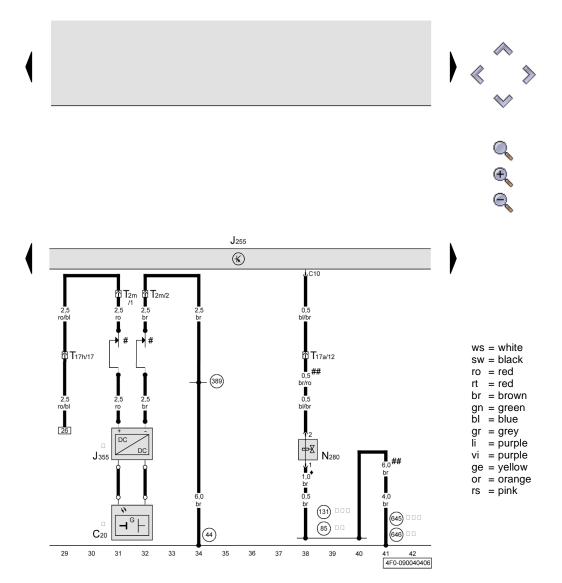
Current Flow Diagram No. 90 / 3

Climatronic control unit, air quality sensor, refrigerant pressure and temperature sender, fresh air blower control unit, fresh air blower

- G238 Air quality sensor
- G395 Refrigerant pressure and temperature sender
- J126 Fresh air blower control unit
- J255 Climatronic control unit
- T3o 3-pin connector, black, on right in plenum chamber
- T10a 10-pin connector, purple, coupling station on left electronics box 🔕
- T10q 10-pin connector, black, near left headlight
- T14d 14-pin connector, black, on right in plenum chamber
- T17d 17-pin connector, black, coupling station on left of A-pillar 🔕
- T17f 17-pin connector, green, coupling station on left of A-pillar
- T17h 17-pin connector, orange, coupling station on electronics box, left in plenum chamber
- V2 Fresh air blower
- Earth point, lower part of left A-pillar
- Earth connection 1, in front left wiring harness
- Earth connection 2, in front left wiring harness
- Earth connection, in heated washer jet wiring harness
- ₆₀₇ Earth point, on left in plenum chamber
- convenience equipment only

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Current Flow Diagram No. 90 / 4

Climatronic control unit, solar operation control unit, solar cells, air conditioning system compressor regulating valve

C20 - Solar cells

J255 - Climatronic control unit

J355 - Solar operation control unit

N280 - Air conditioning system compressor regulating valve

T2m - 2-pin connector, black, on solar roof

T17a - 17-pin connector, red, coupling station on electronics box, left in plenum chamber

T17h - 17-pin connector, orange, coupling station on electronics box, left in plenum chamber

14 Earth point, lower part of left A-pillar 🔕

- Earth connection 1, in engine compartment wiring harness

- Earth connection 2, in engine compartment wiring harness

- Earth connection 24, in main wiring harness

⁻ Earth point 1, on bulkhead 🔕

646 - Earth point 2, on bulkhead 🔕

* - models with solar roof

* - diesel engines

*** - petrol engines

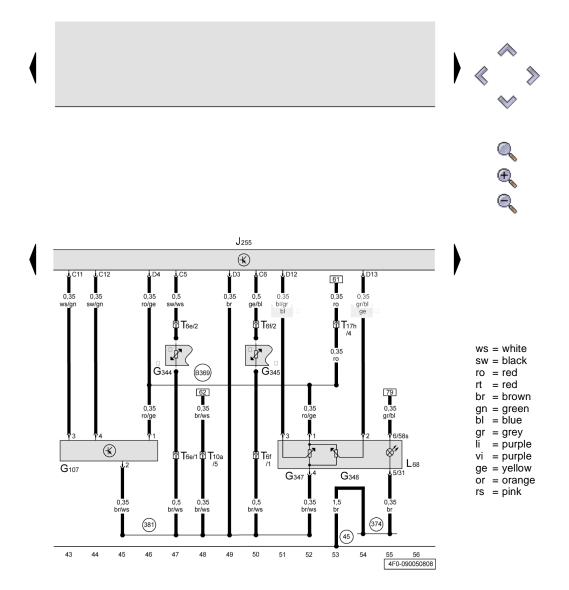
- Interconnection contacts on sliding sunroof frame

- 5.2 I engine, engine code BGS

◆ - 4.2 I engine, engine code BVJ

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Current Flow Diagram No. 90 / 5

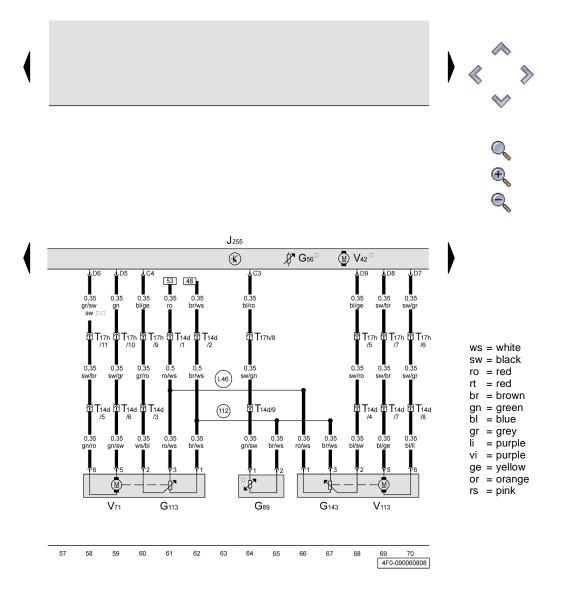
Climatronic control unit, centre left and right vent sensor, front left and right seat temperature sender, sunlight penetration photosensor

- G107 Sunlight penetration photosensor
- G344 Front left seat temperature sender
- G345 Front right seat temperature sender
- G347 Centre left vent sensor
- G348 Centre right vent sensor
- J255 Climatronic control unit
- L68 Dash panel central vent illumination bulb
- T6e 6-pin connector, green, on left of seat cross member
- T6f 6-pin connector, green, on right of seat cross member

 T10a 10-pin connector, purple, coupling station on left electronics in
- T10a 10-pin connector, purple, coupling station on left electronics box
- T17h 17-pin connector, orange, coupling station on electronics box, left in plenum chamber
- ⁻ Earth point, centre behind dash panel 🔕
- Earth connection 9, in main wiring harness
- Earth connection 16, in main wiring harness
- B369 Connection 1 (5V), in main wiring harness
- models with seat heating
- ** phased-in modification

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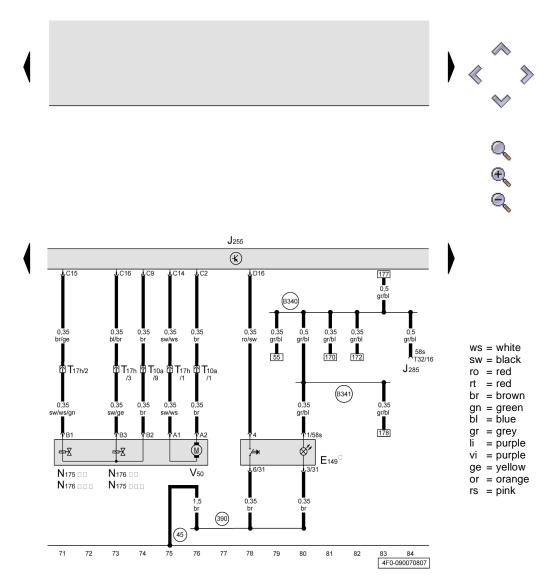
Current Flow Diagram No. 90 / 6

Climatronic control unit, air flow flap control motor, air recirculation flap control motor, fresh air intake duct temperature sensor

- 56 Dash panel temperature sensor
- Fresh air intake duct temperature sensor
- G113 Air flow flap control motor potentiometer
- G143 Air recirculation flap control motor potentiometer
- J255 Climatronic control unit
- T10a 10-pin connector, purple, coupling station on left electronics box
- T14d 14-pin connector, black, on right in plenum chamber
- T17h 17-pin connector, orange, coupling station on electronics box, left in plenum chamber
- V42 Temperature sensor blower
- V71 Air flow flap control motor
- V113 Air recirculation flap control motor
- Earth connection 2, in air conditioning system wiring harness
- Connection (5 Volt), in Climatronic operating unit wiring harness
- * only with convenience
- ** phased-in modification

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Current Flow Diagram No. 90 / 7

Climatronic control unit, coolant circulation pump, left and right heat regulation valve, rear roller blind switch

E149 - Rear roller blind switch

J255 - Climatronic control unit

J285 - Control unit in dash panel insert 🔕

N175 - Left heat regulation valve

N176 - Right heat regulation valve

T10a - 10-pin connector, purple, coupling station on left electronics box

T17h - 17-pin connector, orange, coupling station on electronics box, left in plenum chamber

T32 - 32-pin connector, grey, on dash panel insert

V50 - Coolant circulation pump

Earth point, centre behind dash panel

 $_{\rm 390}$ $\,$ - Earth connection 25, in main wiring harness

B340 - Connection 1 (58s), in main wiring harness

B341 - Connection 2 (58s), in main wiring harness

models with rear roller blind

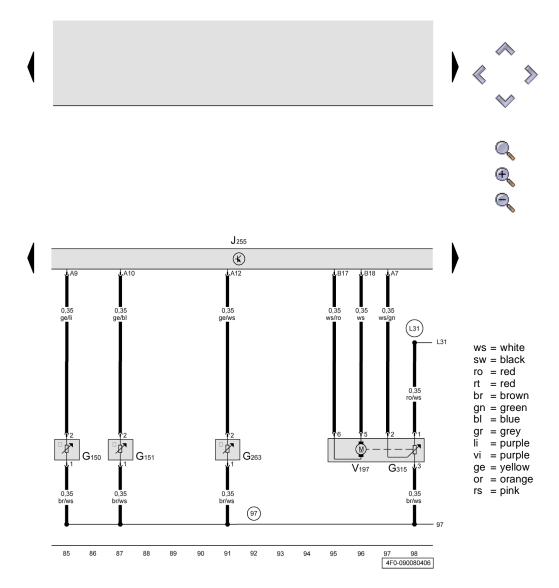
** - left-hand drive

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*** - right-hand drive

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No. 90/8 **Current Flow Diagram**

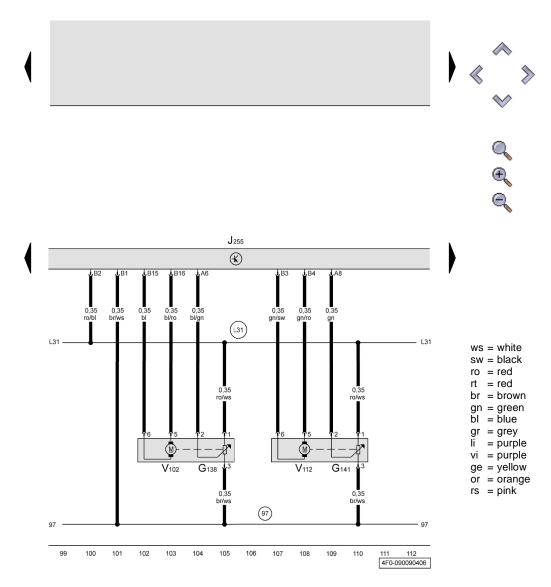
Climatronic control unit, vent temperature sender, potentiometer for front cold air flap control motor, front cold air flap control motor G150 - Left vent temperature sender

- G151 Right vent temperature sender
- G263 Evaporator out-flow temperature sender
- G315 Potentiometer for front cold air flap control motor
- J255 Climatronic control unit
- V197 Front cold air flap control motor
- Earth connection 1, in air conditioning system wiring harness 97

- Connection (5V), in air conditioning system wiring harness L31

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Current Flow Diagram No. 90 / 9

Climatronic control unit, potentiometer for centre vent control motor, potentiometer for rear footwell vent control motor, central vents control motor, rear footwell vent control motor

G138 - Potentiometer for centre vent control motor

G141 - Potentiometer for rear footwell vent control motor

J255 - Climatronic control unit

V102 - Central vents control motor

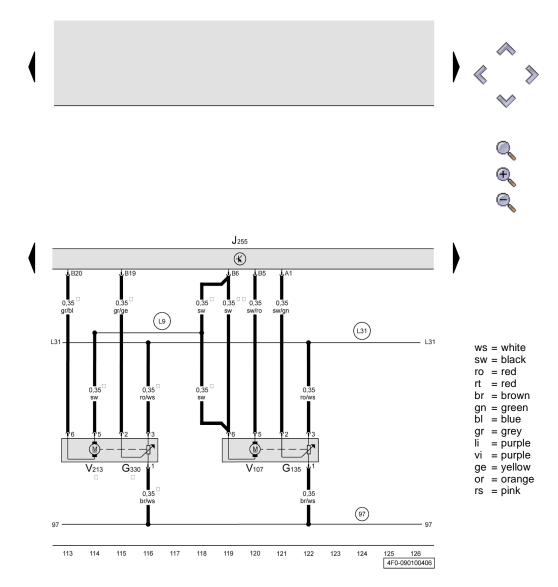
V112 - Rear footwell vent control motor

- Earth connection 1, in air conditioning system wiring harness

- Connection (5V), in air conditioning system wiring harness

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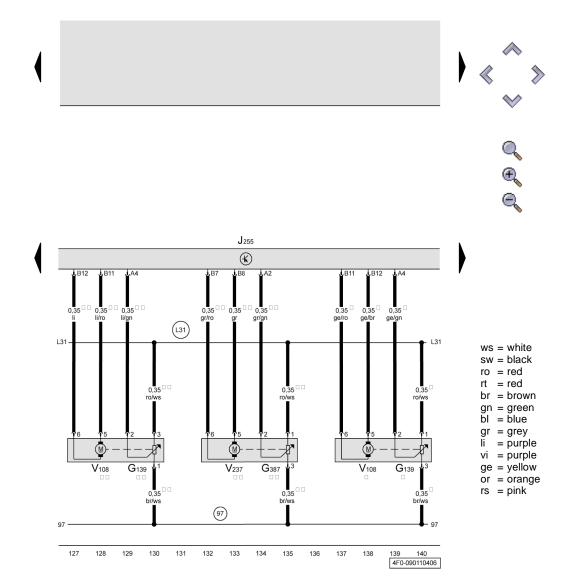
Current Flow Diagram No. 90 / 10

Climatronic control unit, defroster flap control motor potentiometer, potentiometer for indirect ventilation flap control motor, defroster flap control motor, indirect ventilation flap control motor

- G135 Defroster flap control motor potentiometer
- G330 Potentiometer for indirect ventilation flap control motor
- J255 Climatronic control unit
- V107 Defroster flap control motor
- V213 Indirect ventilation flap control motor
- Earth connection 1, in air conditioning system wiring harness
- Connection 1, in air conditioning system wiring harness
- Connection (5V), in air conditioning system wiring harness
- convenience equipment only
- basis equipment only

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Current Flow Diagram No. 90 / 11

Climatronic control unit, potentiometer for left footwell flap control motor, front left chest vent potentiometer, left footwell flap control motor, front left chest vent control motor

G139 - Potentiometer for left footwell flap control motor

G387 - Front left chest vent potentiometer

J255 - Climatronic control unit

V108 - Left footwell flap control motor

V237 - Front left chest vent control motor

- Earth connection 1, in air conditioning system wiring harness

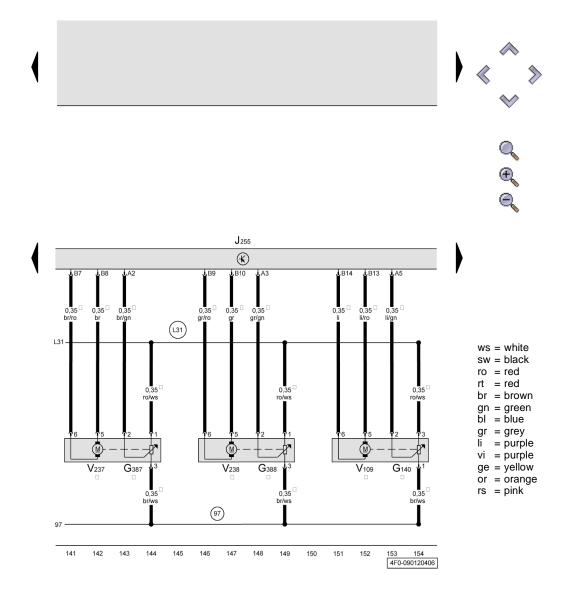
- Connection (5V), in air conditioning system wiring harness

convenience equipment only

* - basis equipment only

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Current Flow Diagram No. 90 / 12

Climatronic control unit, potentiometer for right footwell flap control motor, front left and right chest vent potentiometer, right footwell flap control motor, front left and right chest vent control motor

G140 - Potentiometer for right footwell flap control motor

G387 - Front left chest vent potentiometer

G388 - Front right chest vent potentiometer

J255 - Climatronic control unit

V109 - Right footwell flap control motor

V237 - Front left chest vent control motor

V238 - Front right chest vent control motor

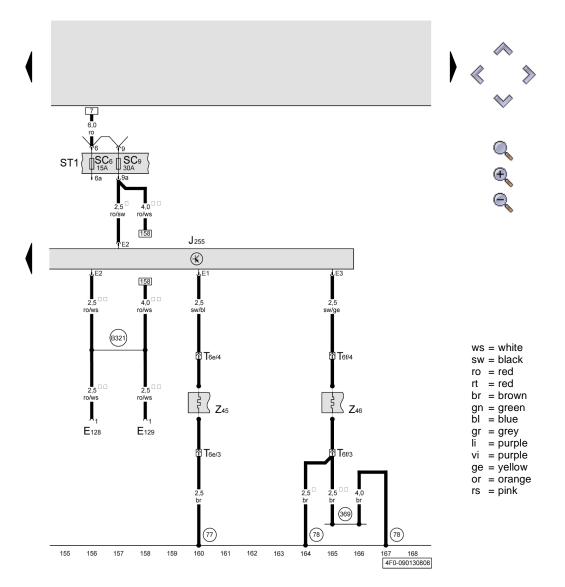
- Earth connection 1, in air conditioning system wiring harness

- Connection (5V), in air conditioning system wiring harness

* - convenience equipment only

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No. 90/13 **Current Flow Diagram**

Climatronic control unit, heated rear left and right seat switch with regulator, front left and right seat heating E128 - Heated rear left seat switch with regulator

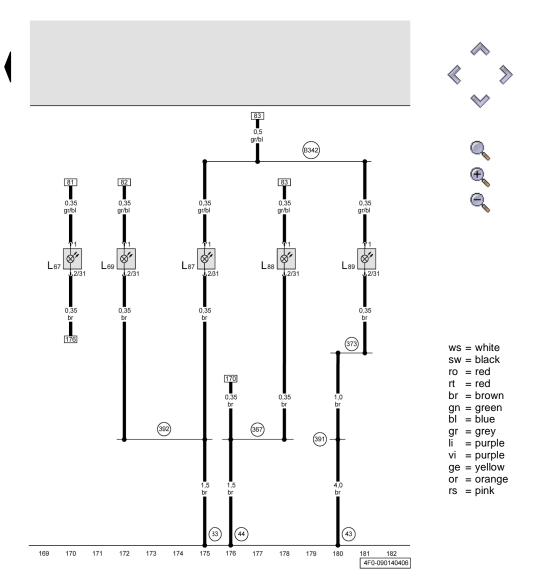
- E129 Heated rear right seat switch with regulator
- J255 - Climatronic control unit
- SC6 - Fuse 6 on fuse holder C 🔯
- Fuse 9 on fuse holder C 💩 SC9
- 6-pin connector, green, on left of seat cross member 🔕
- T6f - 6-pin connector, green, on right of seat cross member
- Front left seat heating Z45
- Z46 - Front right seat heating

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- Earth point, lower part of left B-pillar
- Earth point, lower part of right B-pillar 78
- Earth connection 4, in main wiring harness 369
- Positive connection 7 (30a), in main wiring harness B321
- heated front seats
- heated front and rear seats

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No. 90/14 **Current Flow Diagram**

Dash panel left and right vent illumination bulb, central rear vent illumination bulb L67 - Dash panel left vent illumination bulb

- Dash panel right vent illumination bulb
- L87 - Central rear vent illumination bulb
- L88 - Rear left vent illumination bulb
- L89 - Rear right vent illumination bulb

367

- Earth point, on right behind dash panel 33
- Earth point, lower part of right A-pillar 43
- 44 - Earth connection 2, in main wiring harness

- Earth point, lower part of left A-pillar 🔕

- Earth connection 8, in main wiring harness 373
- Earth connection 26, in main wiring harness 391
- Earth connection 27, in main wiring harness 392
- Connection 3 (58s), in main wiring harness