

Audi A4

Current Flow Diagram

No. 22 / 1

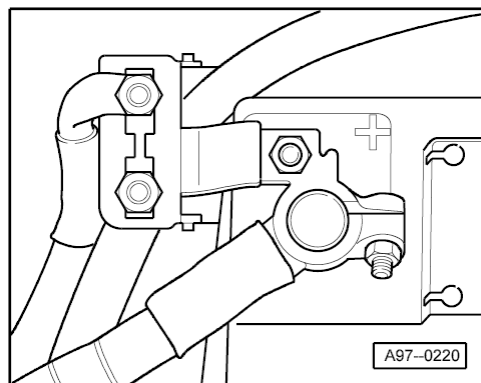
Edition 04.2005

1.9 I - Unit injectors (74 kW - 4 cylinder), engine code AVB

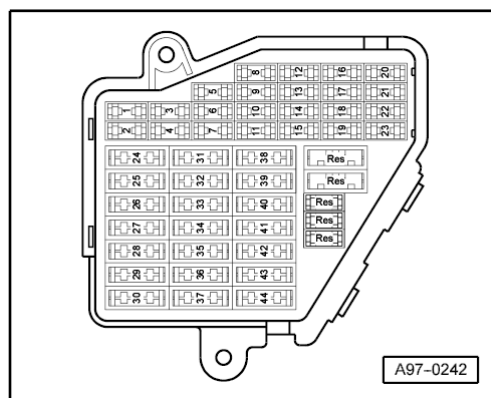
from model year 2003

1.9 I - Unit injectors (96 kW - 4 cylinder), engine code AVF, AWX

from model year 2003

Main fuse

- ◆ On the battery

Fuse holder

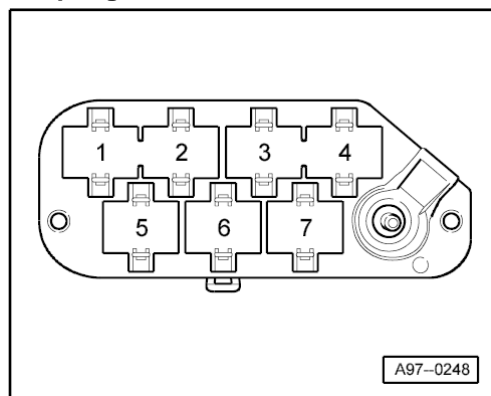
- ◆ Driver side dash panel

Fuse colours

- 30 A - green
- 25 A - white
- 20 A - yellow
- 15 A - blue
- 10 A - red
- 7,5 A - brown
- 5 A - beige

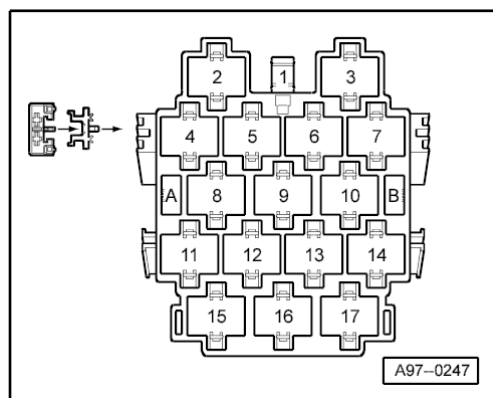
**Note:**

From fuse number 23 upwards the fuses in the fuse holder are designated as 223 in the Current Flow Diagram.

Coupling station with screw connection

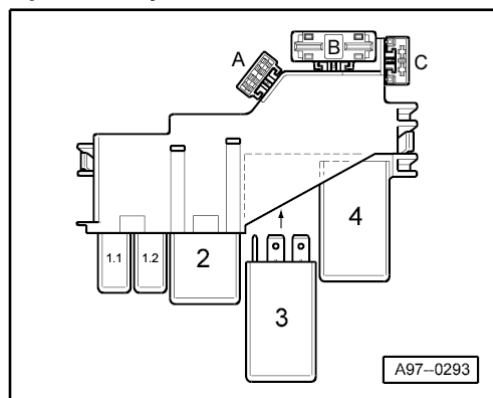
- ◆ In electronics box in plenum chamber
 - 1 - 10-pin connector, black (T10)
 - 2 - 10-pin connector, brown (T10a)
 - 3 - 17-pin connector, red (T17d)
 - 6 - 17-pin connector, white (T17e)

Coupling station of A-pillar



- ◆ Left bottom behind side trim
14 - 10-pin connector, grey (T10d)

4-point relay carrier



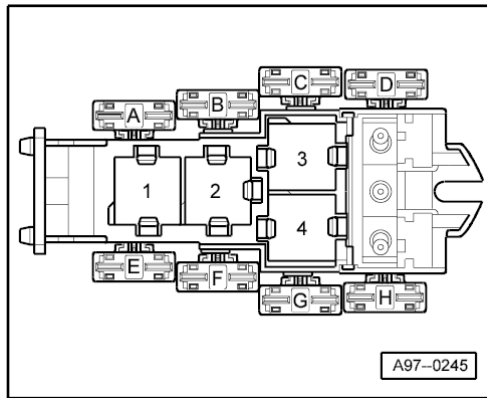
- ◆ in electronics box in plenum chamber
- ◆ in electronics box in plenum chamber
- 1.2 - Fuel pump relay (J17)
- 2 - Glow plug relay (J52)
- 3 - Terminal 30 voltage supply relay (J317)
- A - Engine electronics fuse (S282)
- B - Engine glow plug strip fuse (S39)

Fuse colours

15 A - blue

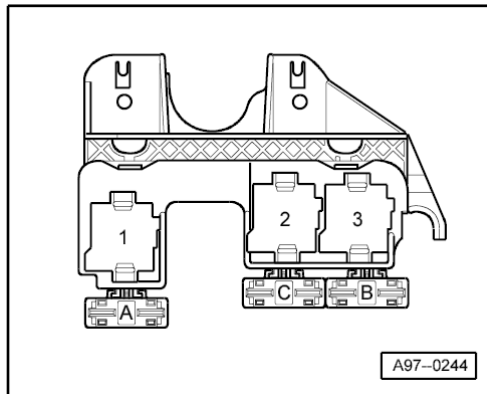
80 A - yellow

4-point relay carrier with screw connection



◆ Driver side dash panel

3-point relay carrier



- ◆ Driver side dash panel
 - 2 - High heat output relay (J360)
 - 3 - Low heat output relay (J359)
 - B - Auxiliary heater fuse (S126)
 - C - Auxiliary heater fuse 2 (S328)

Fuse colours

- 40 A - orange
- 60 A - light blue

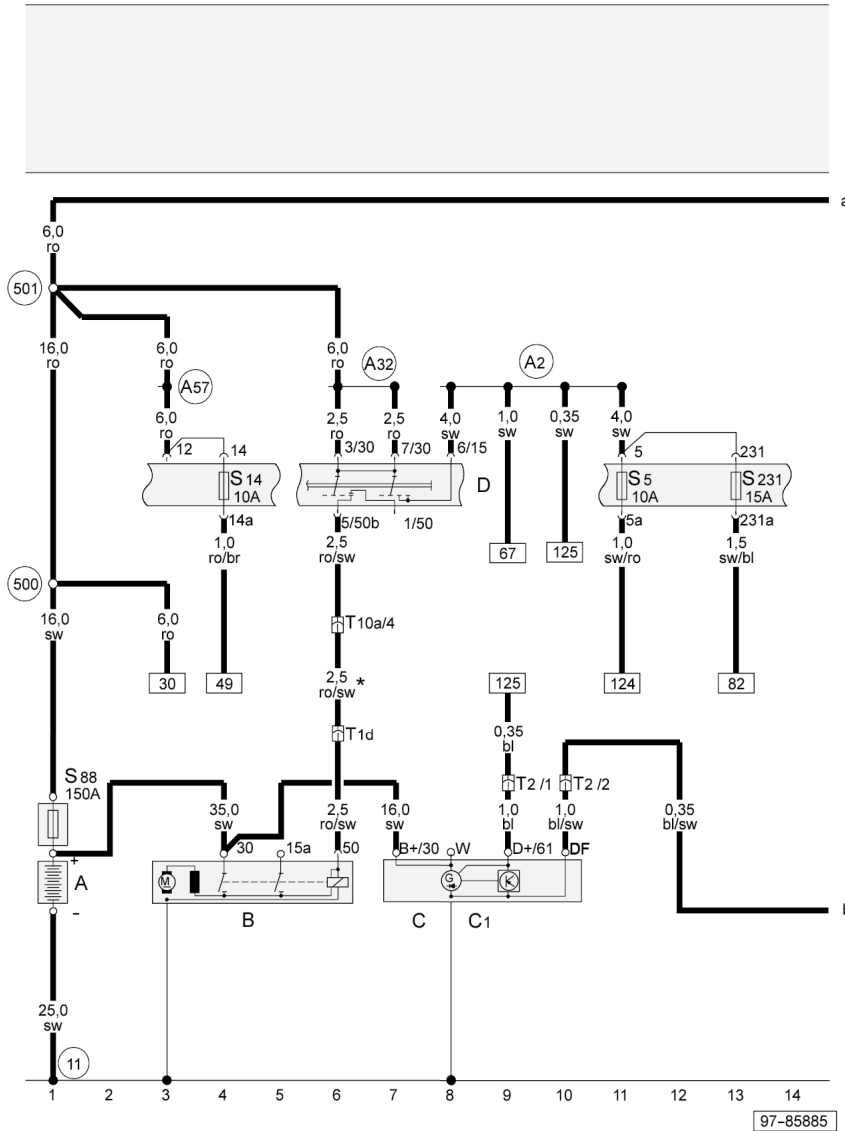
**Note:**

The position 1 in the relay carrier is not used.

Audi A4

Current Flow Diagram

No. 22 / 2



Battery, starter, alternator, voltage regulator, ignition/starter switch

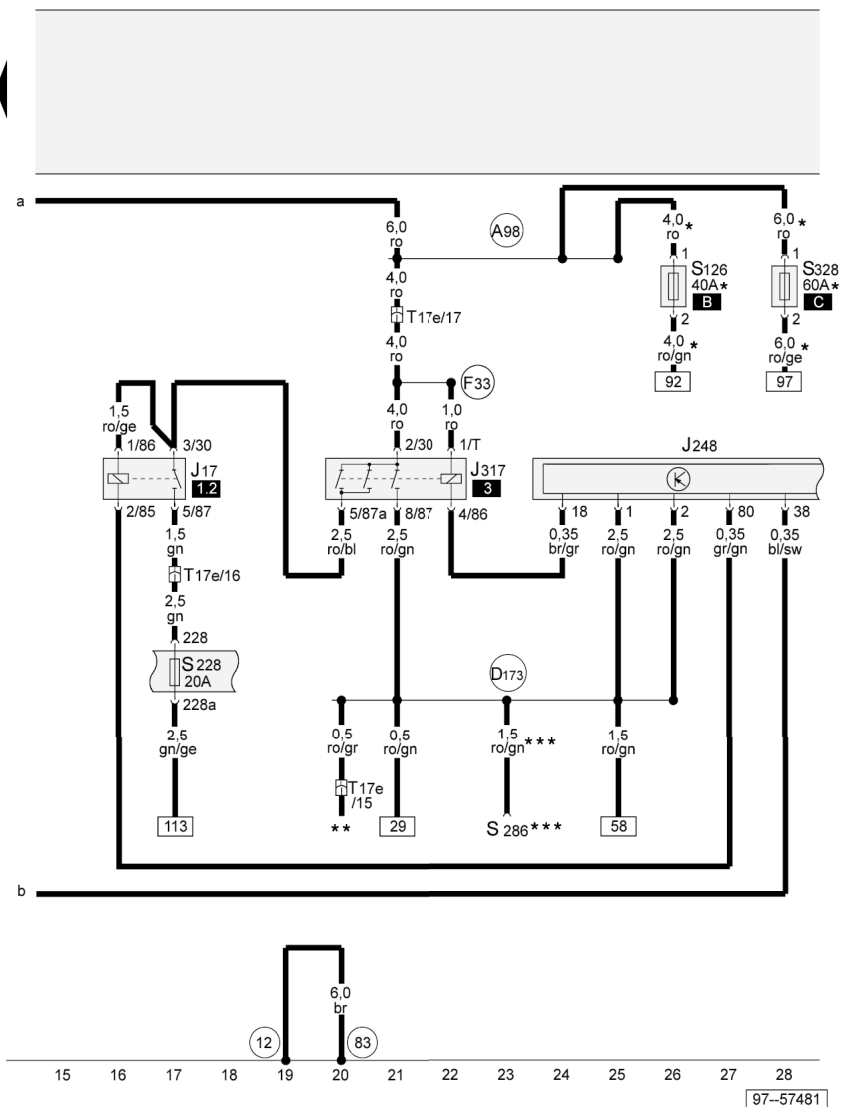
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- S5 - Fuse in fuse holder
- S14 - Fuse in fuse holder
- S88 - Strip fuse (main fuse)
- S231 - Fuse in fuse holder
- T1d - Single connector, black, left engine compartment
- T2 - 2-pin connector, black, in right engine compartment
- T10a - 10-pin connector, brown, coupling station on electronics box, plenum chamber
- 11 - Earth point, in battery box
- 500 - Screw connection 1 (30), on relay plate
- 501 - Screw connection 2 (30), on relay plate
- A2 - Positive connection (15), in dash panel wiring harness
- A32 - Positive connection (30), in dash panel wiring harness
- A57 - Positive connection 3 (30), in dash panel wiring harness
- * - for models with manual gearbox only

ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

Audi A4

Current Flow Diagram

No. 22 / 3



Fuel pump relay, diesel direct injection system control unit, terminal 30 voltage supply relay

- J17 - Fuel pump relay
- J248 - Diesel direct injection system control unit
- J317 - Terminal 30 voltage supply relay
- S126 - Auxiliary heater fuse
- S228 - Fuse in fuse holder
- S286 - Automatic gearbox fuse, run-on
- S328 - Auxiliary heater fuse 2
- T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
- 12 - Earth point, on left in engine compartment
- 83 - Earth connection 1, in front right wiring harness
- A98 - Positive connection 4 (30), in dash panel wiring harness
- D173 - Connection (87), in engine wiring harness
- F33 - Positive connection (30), in diesel direct injection system wiring harness
- * - for models with auxiliary air heater only
- ** - See Current Flow Diagram radiator fan
- *** - for models with automatic gearbox (multitronic 01J) only

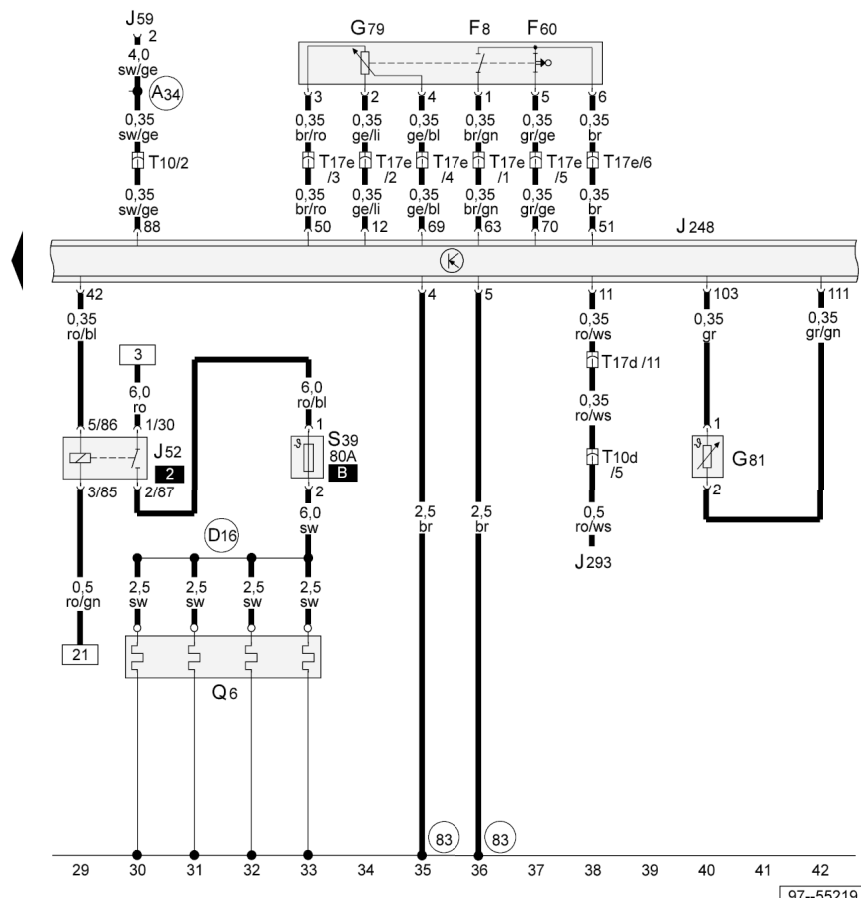
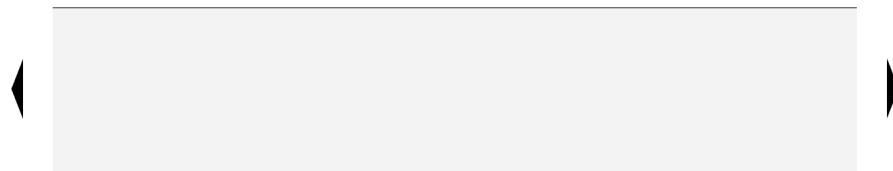
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

15 16 17 18 19 20 21 22 23 24 25 26 27 28
 97-57481

Audi A4

Current Flow Diagram

No. 22 / 4



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

Accelerator position sender, fuel temperature sender, diesel direct injection system control unit, glow plugs - (engine)




- F8 - Kick-down switch
- F60 - Idling speed switch
- G79 - Accelerator position sender
- G81 - Fuel temperature sender
- J52 - Glow plug relay
- J59 - X-contact relief relay
- J248 - Diesel direct injection system control unit
- J293 - Radiator fan control unit
- Q6 - Glow plugs - (engine)
- S39 - Engine glow plug strip fuse
- T10 - 10-pin connector, black, coupling station on electronics box, plenum chamber
- T10d - 10-pin connector, grey, coupling station on left of A-pillar
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
- 83 - Earth connection 1, in front right wiring harness
- A34 - Connection (75x), in dash panel wiring harness
- D16 - Connection (glow plugs), in front right wiring harness

Audi A4

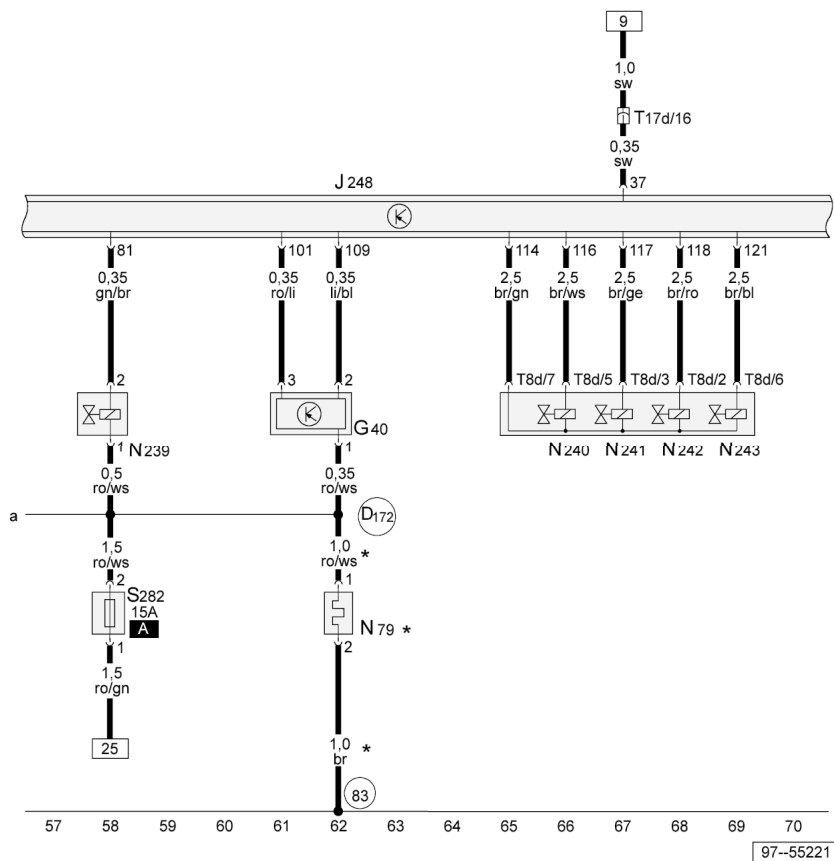
Current Flow Diagram

No. 22 / 6

Hall sender, diesel direct injection system control unit, variable intake manifold flap change-over valve, unit injector valves

- G40 - Hall sender
- J248 - Diesel direct injection system control unit 
- N79 - Heater element for crankcase breather 
- N239 - Variable intake manifold flap change-over valve
- N240 - Unit injector valve, No. 1 cyl.
- N241 - Unit injector valve, No. 2 cyl.
- N242 - Unit injector valve, No. 3 cyl.
- N243 - Unit injector valve, No. 4 cyl.
- S282 - Engine electronics fuse 
- T8d - 8-pin connector, in engine compartment
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber

- 83 - Earth connection 1, in front right wiring harness
- D172 - Connection (engine electrics), in engine compartment wiring harness
- * - models with option bleeder heating for crankcase only

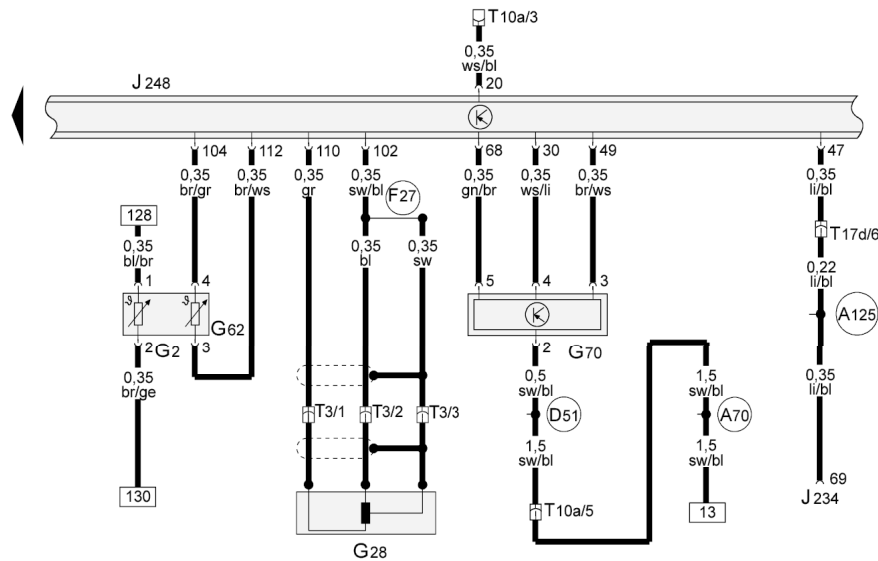
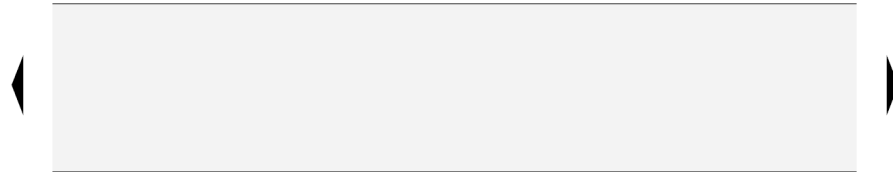


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- ro = red
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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

Audi A4

Current Flow Diagram

No. 22 / 7



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

Coolant temperature display sender, engine speed sender, air mass meter, diesel direct injection system control unit

- G2 - Coolant temperature sender
- G28 - Engine speed sender
- G62 - Coolant temperature sender
- G70 - Air mass meter
- J234 - Airbag control unit
- J248 - Diesel direct injection system control unit
- T3 - 3-pin connector, grey, on engine block
- T10a - 10-pin connector, brown, coupling station on electronics box, plenum chamber
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- A70 - Connection (15a, fuse 231), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- D51 - Positive connection 1 (15), in engine compartment wiring harness
- F27 - Connection (screening), in diesel direct injection wiring harness

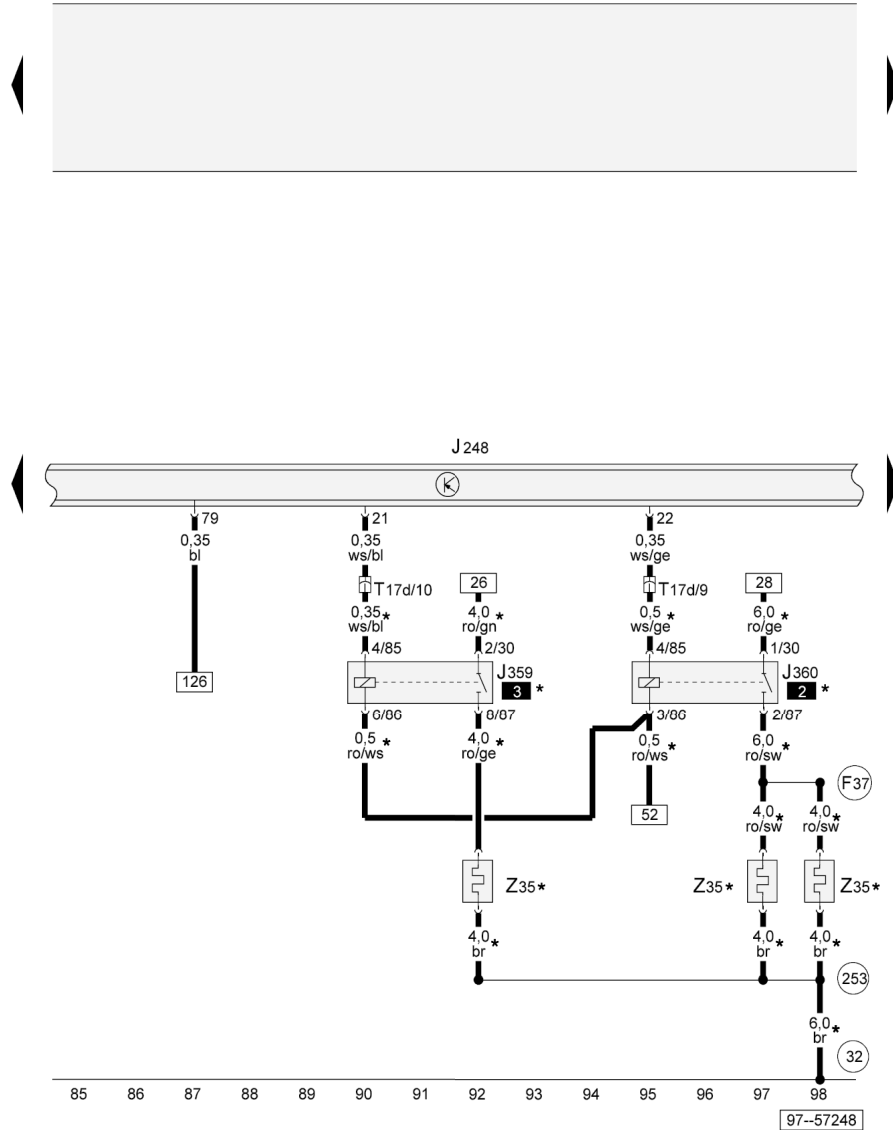
Audi A4

Current Flow Diagram

No. 22 / 8

Diesel direct injection system control unit, auxiliary air heater element

- J248 - Diesel direct injection system control unit
- J359 - Low heat output relay
- J360 - High heat output relay
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- Z35 - Auxiliary heating heater element
- 32 - Earth point, on left behind dash panel
- 253 - Earth connection, in heater unit wiring harness
- F37 - Connection (auxiliary heater), in diesel direct injection system wiring harness
- * - for models with auxiliary air heater only

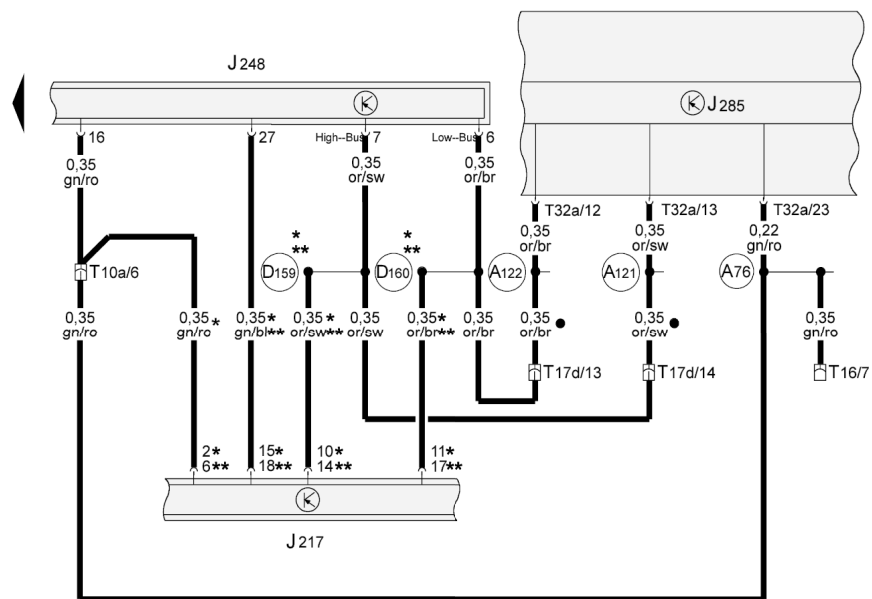
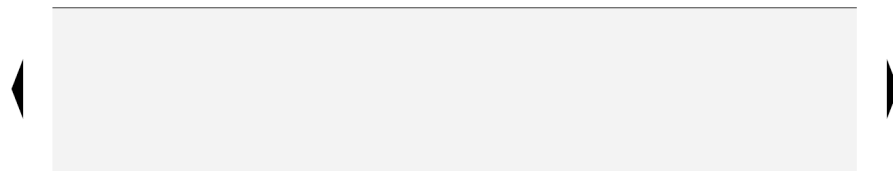


97--57248

Audi A4

Current Flow Diagram

No. 22 / 9



ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

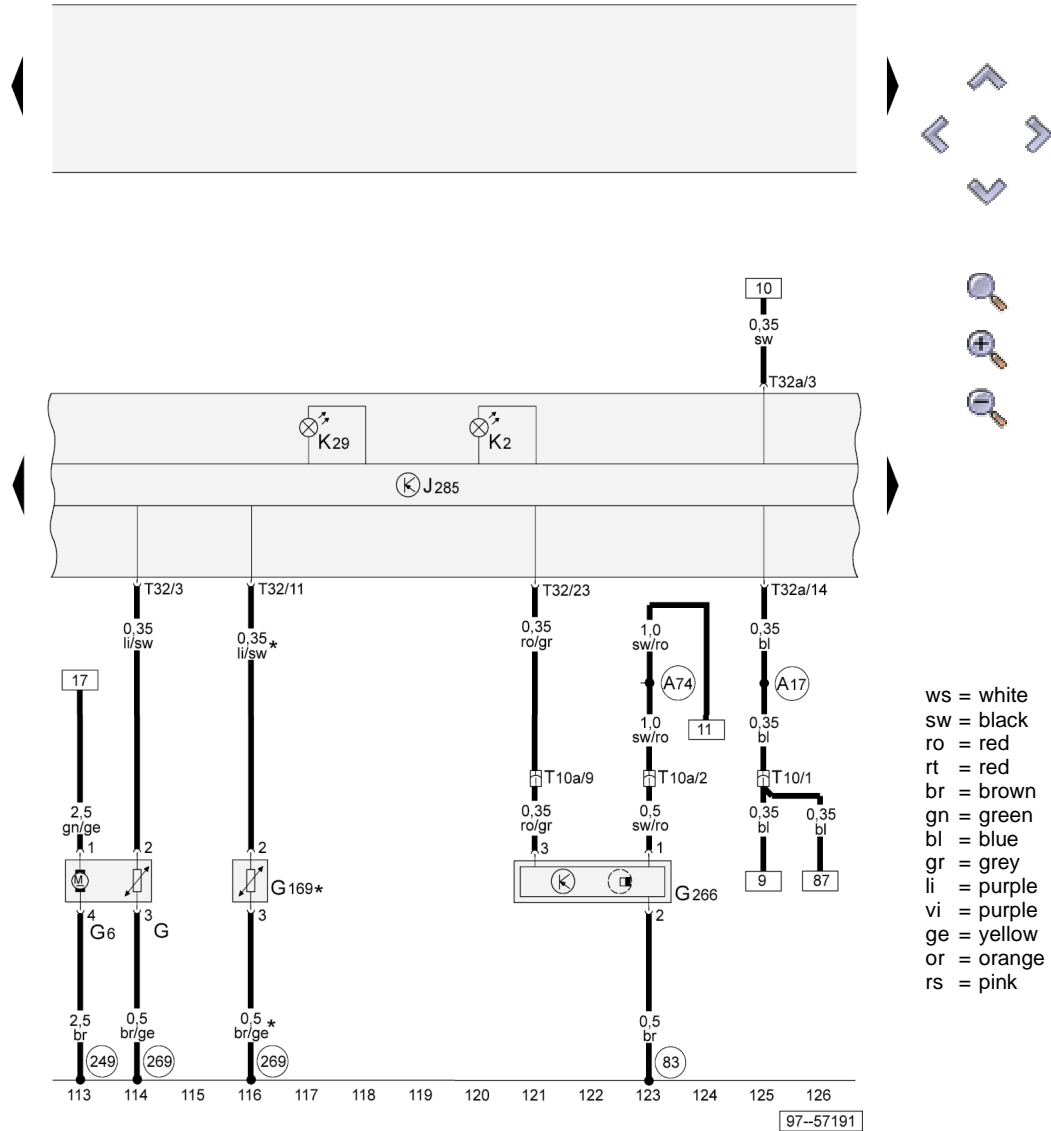
Diesel direct injection system control unit, automatic gearbox control unit, control unit with display in dash panel insert

- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit
- J285 - Control unit with display in dash panel insert
- T10a - 10-pin connector, brown, coupling station on electronics box, plenum chamber
- T16 - 16-pin connector, black, diagnostic connector
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- T32a - 32-pin connector, green, on dash panel insert
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- D159 - Connection (high bus), in engine compartment wiring harness
- D160 - Connection (low bus), in engine compartment wiring harness
- * - for models with automatic gearbox (multitronic 01J) only, up to model year 2003
- ** - for models with automatic gearbox (multitronic 01J) only, from model year 2004
- - Data bus wire (CAN bus)

Audi A4

Current Flow Diagram

No. 22 / 10



Control unit with display in dash panel insert, fuel gauge sender, oil level and oil temperature sender

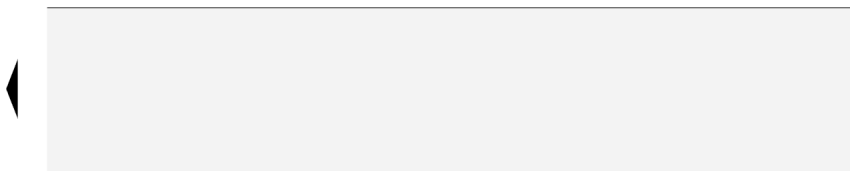
- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- G169 - Fuel gauge sender 2
- G266 - Oil level and oil temperature sender
- J285 - Control unit with display in dash panel insert

- K2 - Alternator warning lamp
- K29 - Glow period warning lamp
- T10 - 10-pin connector, black, coupling station on electronics box, plenum chamber
- T10a - 10-pin connector, brown, coupling station on electronics box, plenum chamber
- T32 - 32-pin connector, blue, on dash panel insert
- T32a - 32-pin connector, green, on dash panel insert
- 83 - Earth connection 1, in front right wiring harness
- 249 - Earth connection 2, in interior wiring harness
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness
- A17 - Connection (61), in dash panel wiring harness
- A74 - Connection (15a, fuse 5), in dash panel wiring harness
- * - for models with four-wheel drive only


Audi A4

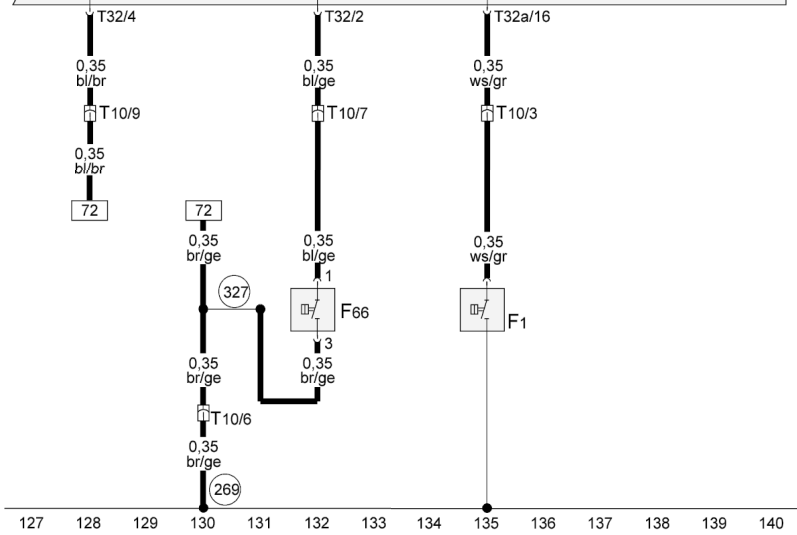
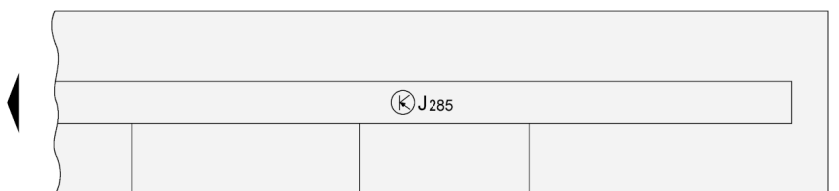
Current Flow Diagram

No. 22 / 11



Control unit with display in dash panel insert, oil pressure switch, coolant shortage indicator switch

- F1 - Oil pressure switch
- F66 - Coolant shortage indicator switch
- J285 - Control unit with display in dash panel insert 
- T10 - 10-pin connector, black, coupling station on electronics box, plenum chamber
- T32 - 32-pin connector, blue, on dash panel insert
- T32a - 32-pin connector, green, on dash panel insert
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness
- 327 - Earth connection (sender earth), in engine compartment wiring harness



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