

Audi A4

Current Flow Diagram

No. 47 / 1

Edition 04.2004

1.9 litre unit injector (74 kW - 4-cylinder), engine code AVB

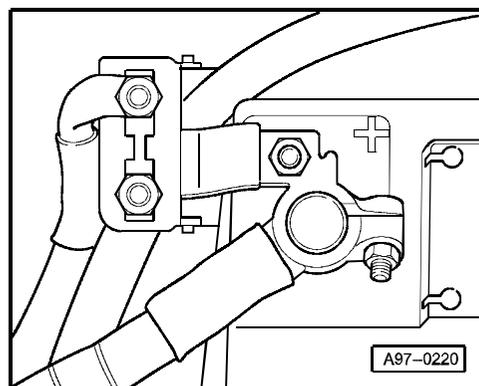
From model year 2002

1.9 litre unit injector (96 kW - 4-cylinder), engine codes AVF, AWX

From model year 2002

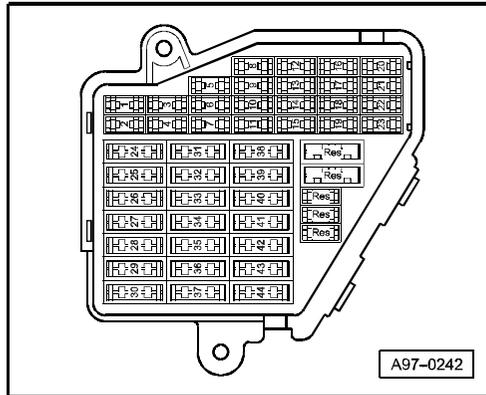
1.9 litre unit injector (96 kW - 4-cylinder), engine code AVF, from model year 2002

Main fuse



- ◆ On battery

Fuse box



◆ Dash panel, driver's side

Fuse colours

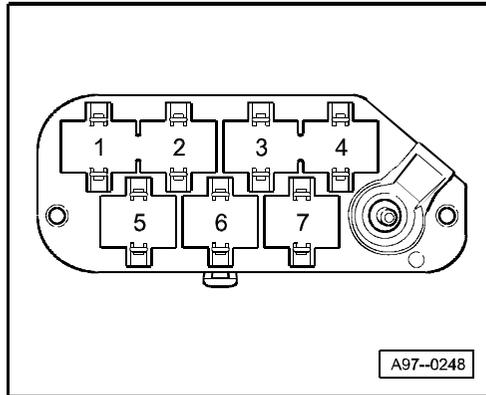
- 30 A - green
- 25 A - white
- 20 A - yellow
- 15 A - blue
- 10 A - red
- 7.5 A - brown
- 5 A - beige



Note:

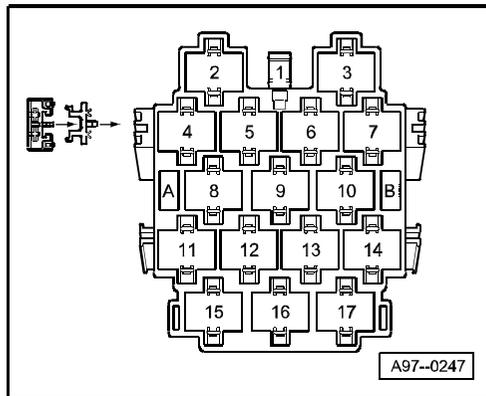
From fuse number 23 upwards the fuses in the fuse box are designated as 223 etc. in the Current Flow Diagram.

Connector point with screw connection



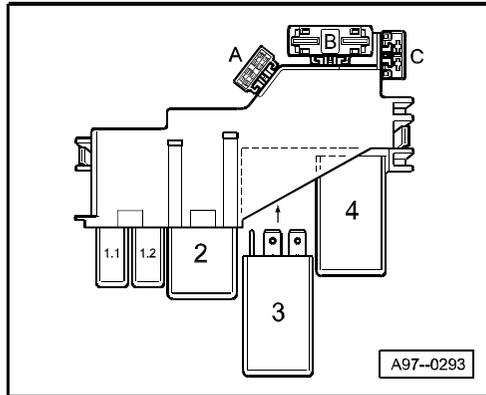
- ◆ In electronics box, plenum chamber
 - 1 - 10-pin connector, black (T10)
 - 2 - 10-pin connector, brown (T10a)
 - 3 - 17-pin connector, red (T17d)
 - 6 - 17-pin connector, white (T17e)

Connector point, A pillar



- ◆ On left-hand side, bottom, behind side trim
 - 14 - 10-pin connector, grey (T10d)

4-point relay carrier

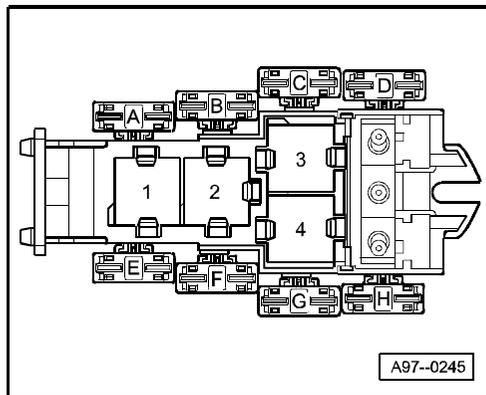


- ◆ In electronics box, plenum chamber
 - 1.1 - Fuel pump relay (J17)
 - 1.2 - Fuel pump relay (J17)
 - 2 - Relay for glow plugs (J52)
 - 3 - Terminal 30 voltage supply relay (J317)
 - A - Engine electronics fuse (S282)
 - B - Strip fuse for glow plugs (engine) (S39)

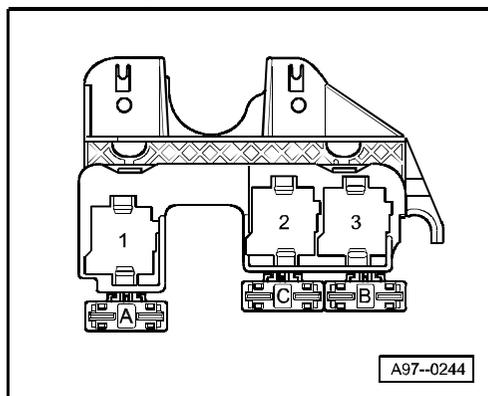
Fuse colours

- 15 A - blue
- 80 A - yellow

4-point relay carrier with screw connection



- ◆ Dash panel, driver's side

3-point relay carrier

- ◆ Dash panel, driver's side
 - 2 - High heat output relay (J360)
 - 3 - Low heat output relay (J359)
 - B - Additional heater fuse (S126)
 - C - Additional heater fuse -2- (S328)

Fuse colours

- 40 A - orange
- 60 A - light blue

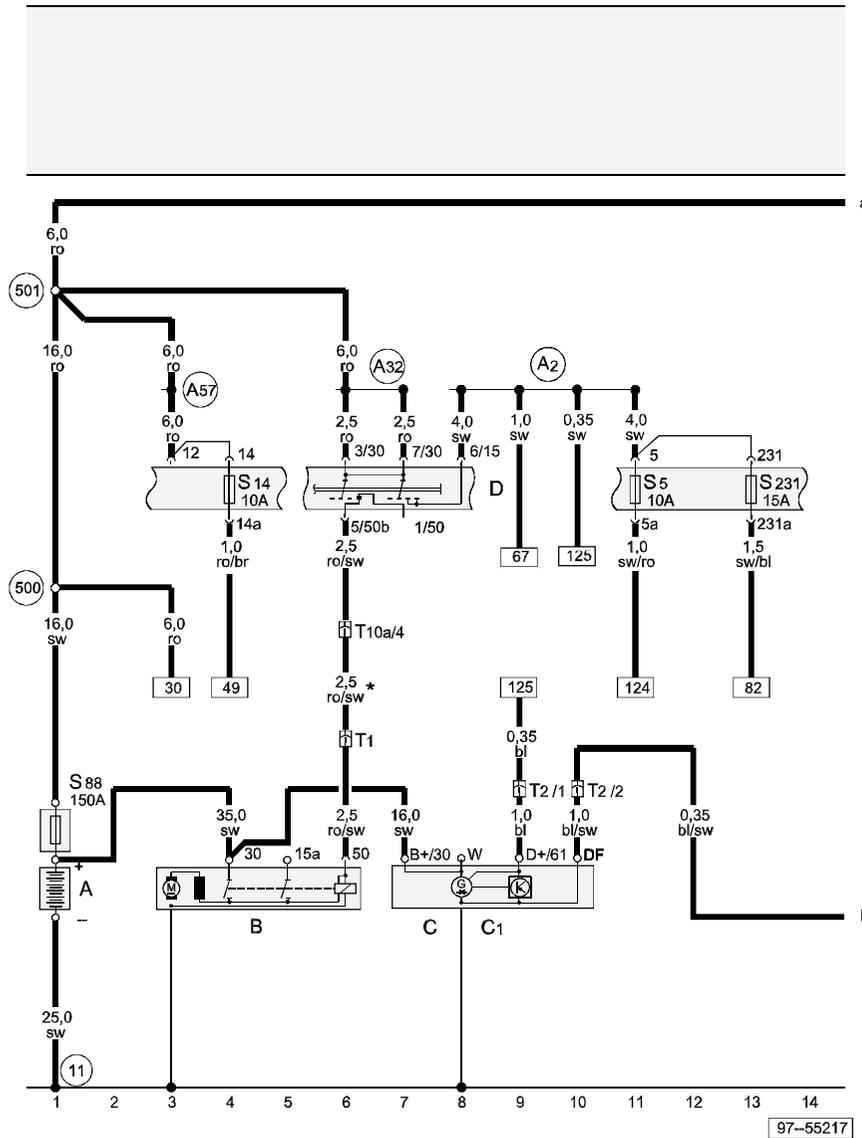
**Note:**

Item 1 in relay carrier is not used.

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Current Flow Diagram

No. 47 / 2



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

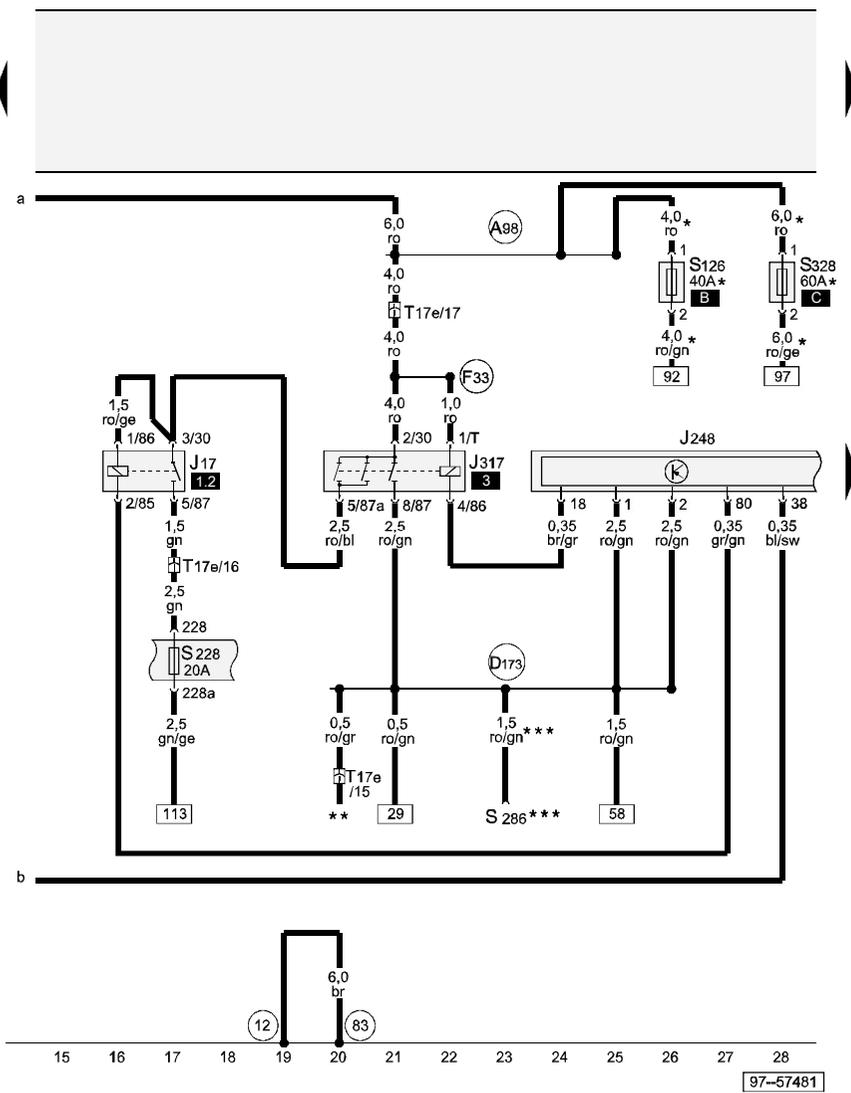
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- S5 - Fuse in fuse box
- S14 - Fuse in fuse box
- S88 - Strip fuse (main fuse)
- S231 - Fuse in fuse box
- T1 - Single connector, black, engine compartment, right
- T2 - 2-pin connector, black, engine compartment, right
- T10a - 10-pin connector, brown, connector point, 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
- * - Only models with manual gearbox

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

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Current Flow Diagram

No. 47 / 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 - Additional heater fuse
- S228 - Fuse in fuse box
- S286 - Automatic gearbox fuse (for ATF pump run-on)
- S328 - Additional heater fuse -2-
- T17e - 17-pin connector, white, connector point, electronics box, plenum chamber
- 12 - Earth point, in engine compartment, left
- 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
- * - Only applies to models with additional heater (air)
- ** - See Current Flow Diagram: Radiator fan
- *** - Only applies to models with automatic gearbox (multitronic 01J)

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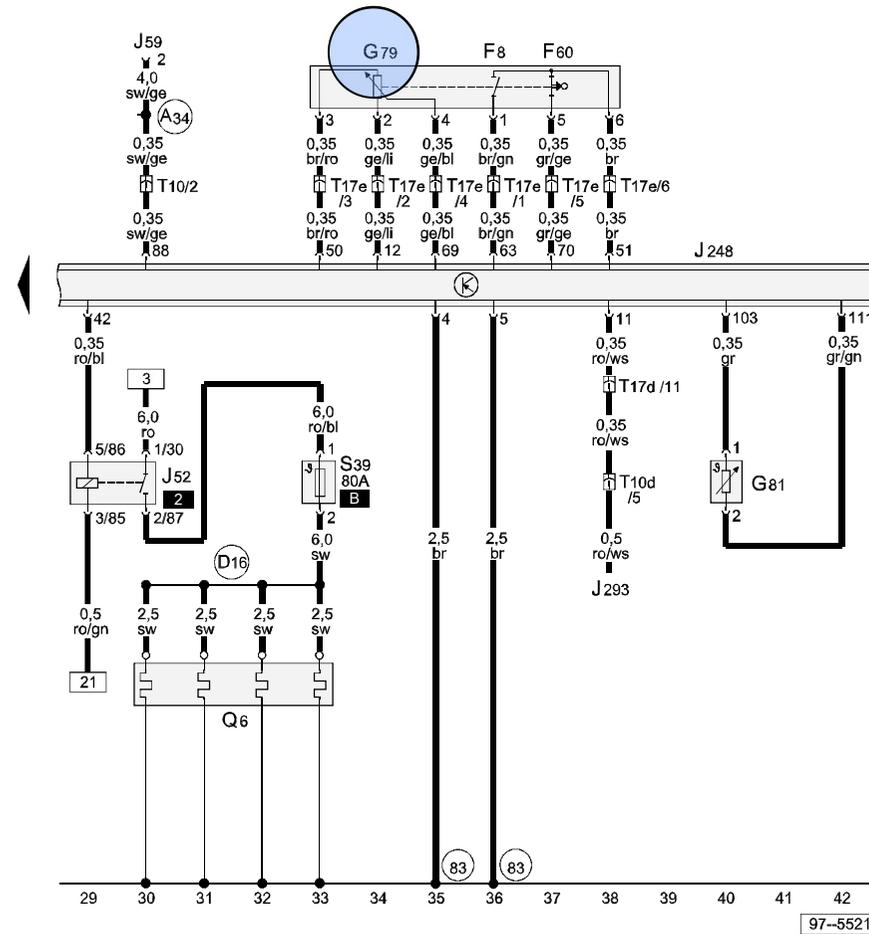
Current Flow Diagram

No. 47 / 4



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

- F8 - Kick-down switch
- F60 - Idling switch
- G79** - Accelerator pedal 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 - Strip fuse for glow plugs - engine
- T10 - 10-pin connector, black, connector point, electronics box, plenum chamber
- T10d - 10-pin connector, grey, connector point, A pillar, left
- T17d - 17-pin connector, red, connector point, electronics box, plenum chamber
- T17e - 17-pin connector, white, connector point, 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

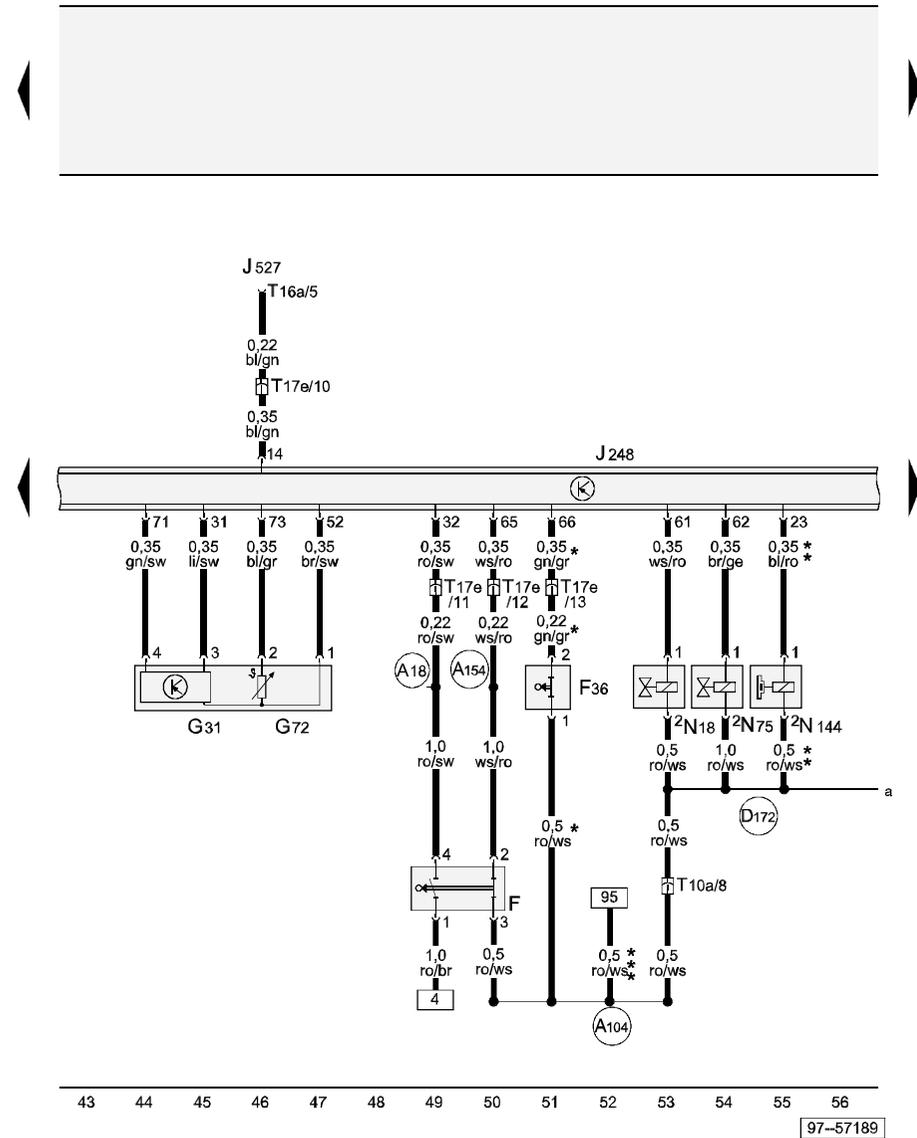


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Current Flow Diagram

No. 47 / 5



Charge air pressure sender, intake manifold temperature sender, diesel direct injection system control unit, exhaust gas recirculation valve, charge pressure control solenoid valve, electro/hydraulic engine mounting

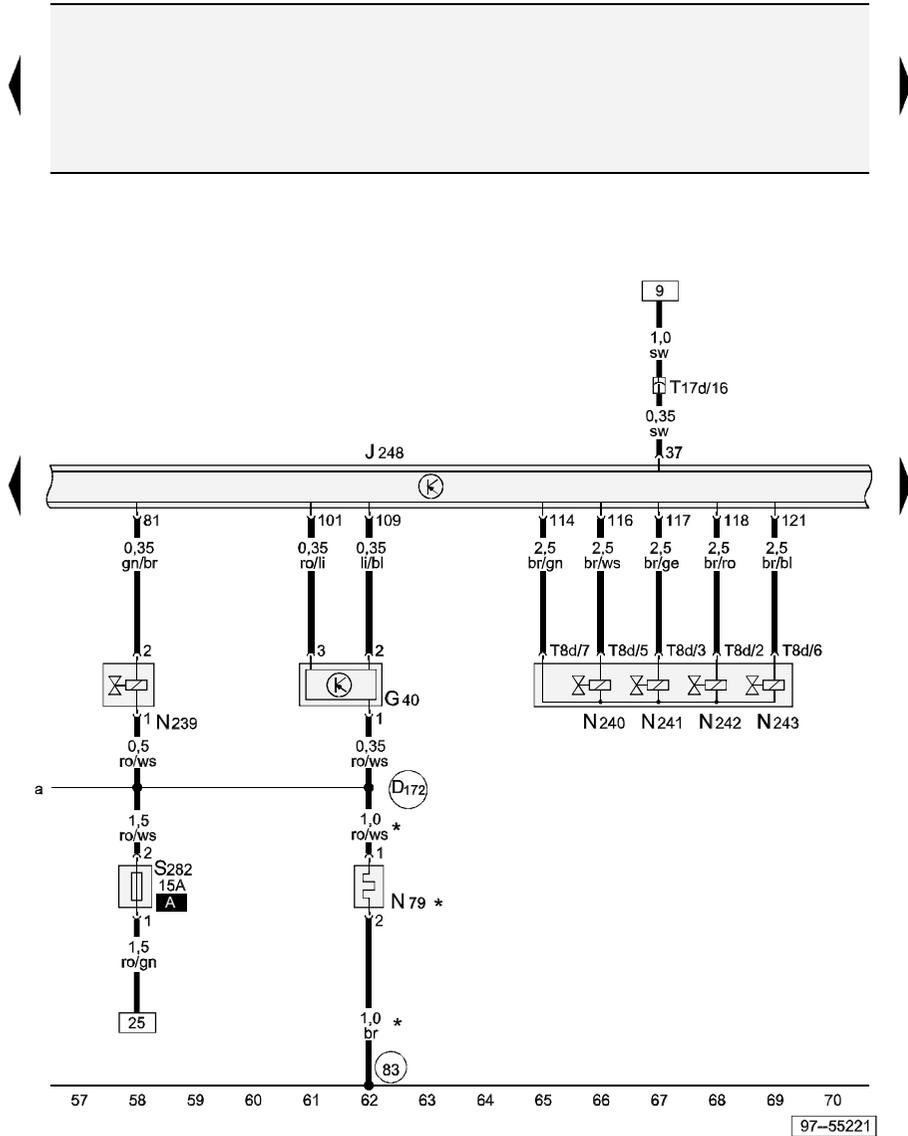
- F - Brake light switch
- F36 - Clutch pedal switch
- G31 - Charge air pressure sender
- G72 - Intake manifold temperature sender
- J248 - Diesel direct injection system control unit
- J527 - Steering column electronics control unit
- N18 - Exhaust gas recirculation valve
- N75 - Charge pressure control solenoid valve
- N144 - Electro/hydraulic engine mounting solenoid valve, left
- T10a - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T16a - 16-pin connector, black, on steering column electronics control unit
- T17e - 17-pin connector, white, connector point, electronics box, plenum chamber
- A18 - Connection (54), in dash panel wiring harness
- A104 - Positive (+) connection -2- (15), in dash panel wiring harness
- A154 - Connection (brake pedal switch), in dash panel wiring harness
- D172 - Connection (engine electrics), in engine compartment wiring harness
- * - Only models with manual gearbox
- ** - Only models with electro/hydraulic engine mounting
- *** - Only models equipped with coolant heating

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 gr = grey
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Current Flow Diagram

No. 47 / 6



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

- G40 - Hall sender
- J248 - Diesel direct injection system control unit
- N79 - Heater element (crankcase breather)
- N239 - Intake manifold flap change-over valve
- N240 - Unit injector solenoid valve, no. 1 cyl.
- N241 - Unit injector solenoid valve, no. 2 cyl.
- N242 - Unit injector solenoid valve, no. 3 cyl.
- N243 - Unit injector solenoid valve, no. 4 cyl.
- S282 - Engine electronics fuse
- T8d - 8-pin connector, in engine compartment
- T17d - 17-pin connector, red, connector point, electronics box, plenum chamber
- 83 - Earth connection -1-, in front right wiring harness
- D172 - Connection (engine electrics), in engine compartment wiring harness
- * - Only models equipped with heater for crankcase breather

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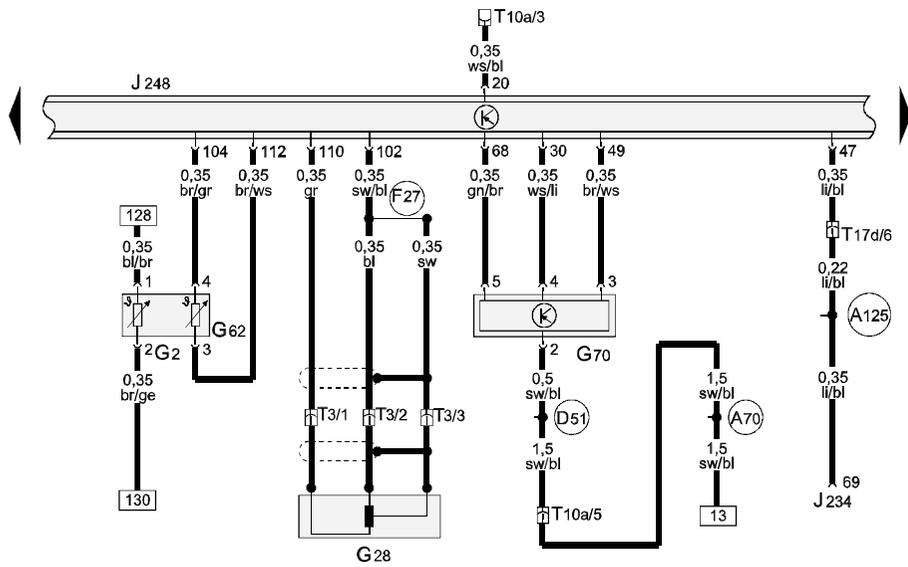
Current Flow Diagram

No. 47 / 7



Coolant temperature senders, 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, connector point, electronics box, plenum chamber
- T17d - 17-pin connector, red, connector point, 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



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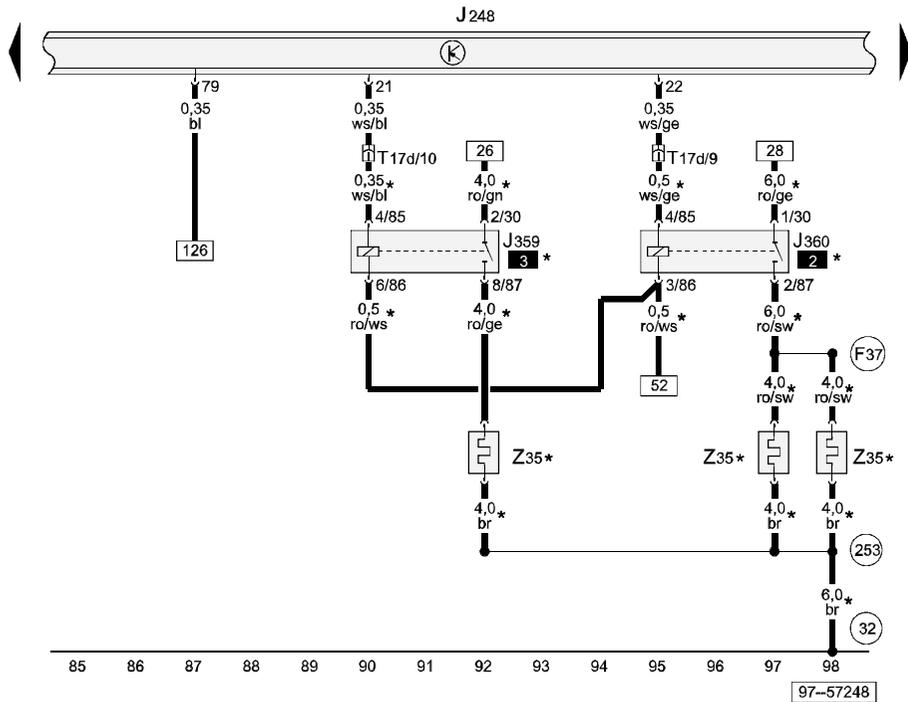
Current Flow Diagram

No. 47 / 8



Diesel direct injection system control unit, additional heating heater element

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

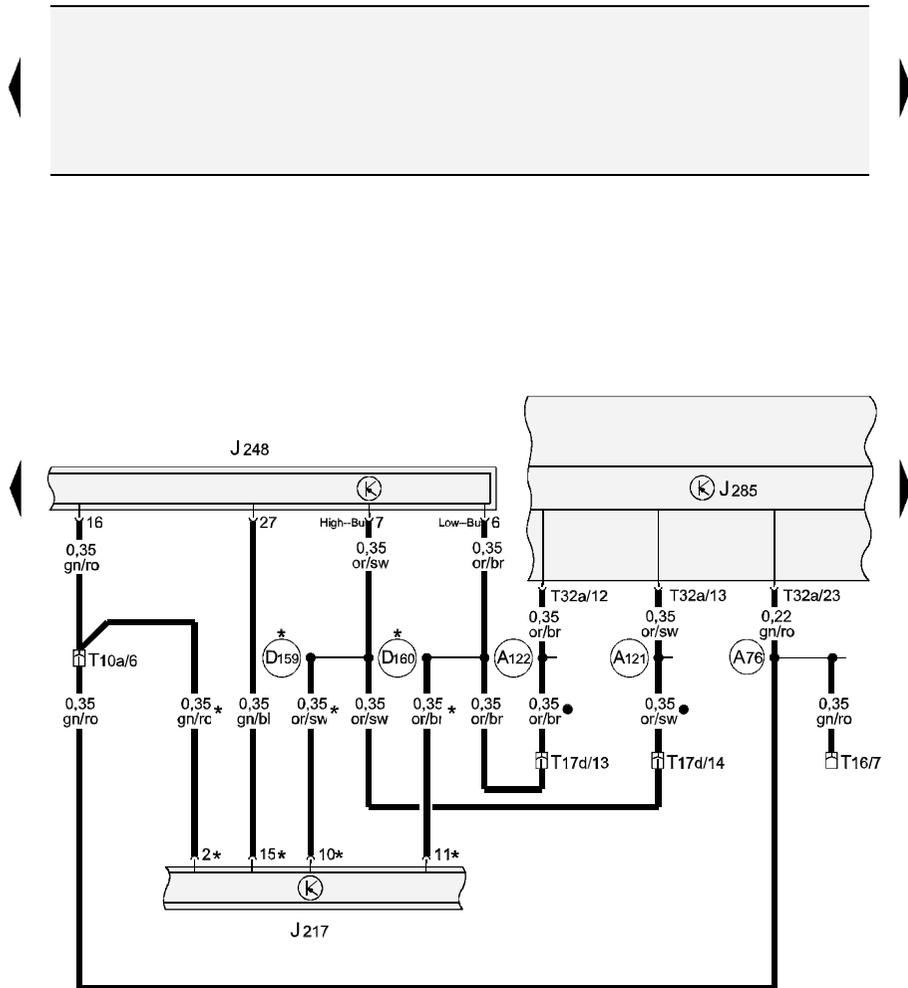


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Current Flow Diagram

No. 47 / 9



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

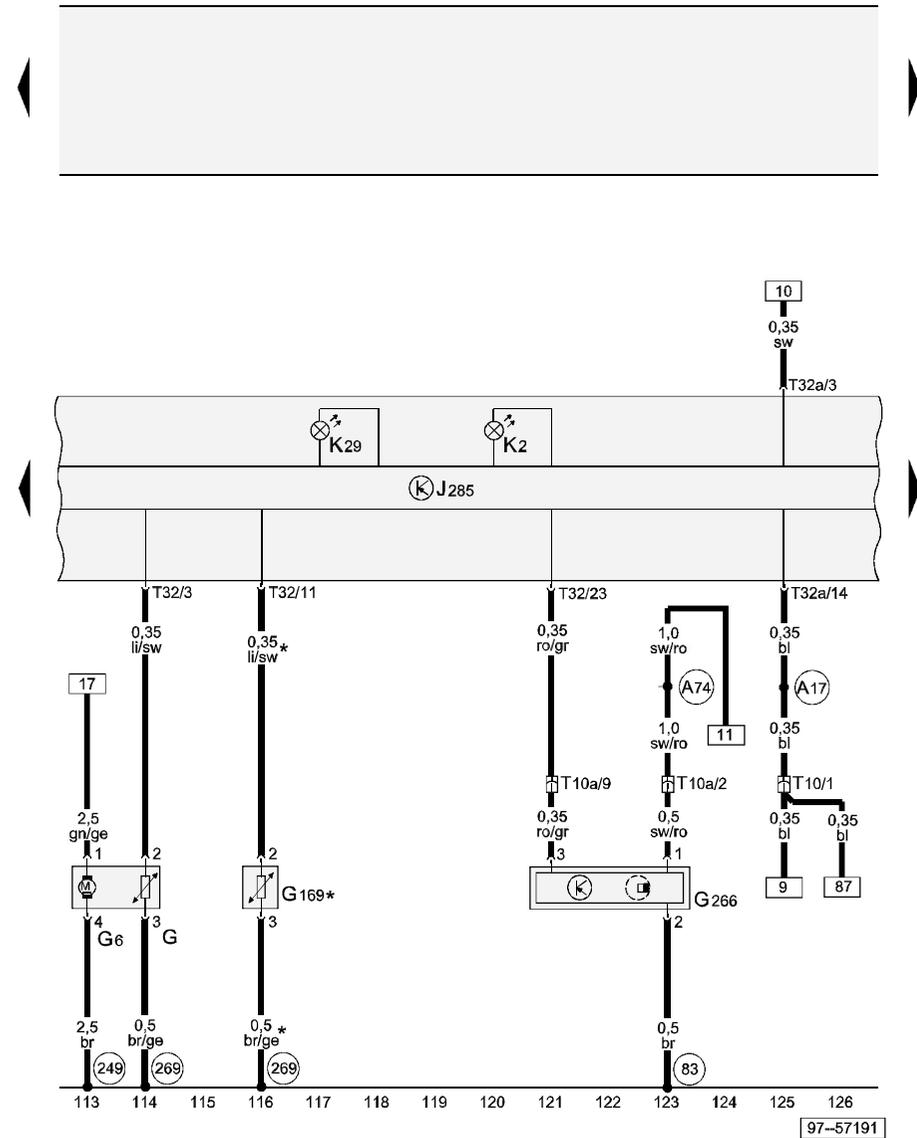
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit
- J285 - Control unit with display in dash panel insert
- T10a - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T16 - 16-pin connector, black, diagnostic connector
- T17d - 17-pin connector, red, connector point, 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
- * - Only models with automatic gearbox (multitronic 01J)
- - Data bus wire (CAN bus)

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Current Flow Diagram

No. 47 / 10



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

- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- G169 - Fuel gauge sender -2-
- G266 - Oil level/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, connector point, electronics box, plenum chamber
- T10a - 10-pin connector, brown, connector point, 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
- * - Only applies to models with four-wheel drive

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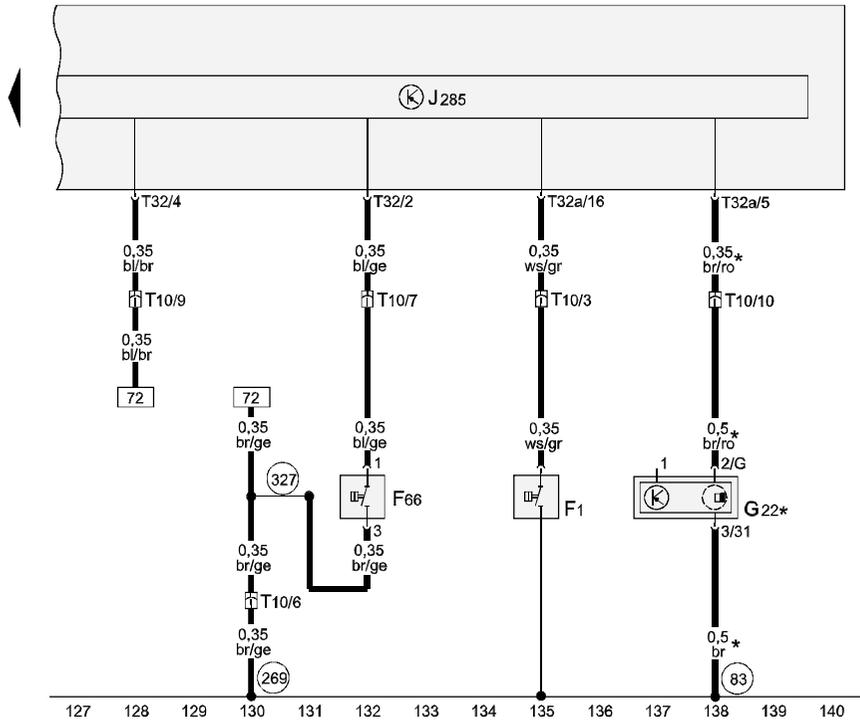
Current Flow Diagram

No. 47 / 11



Control unit with display in dash panel insert, oil pressure switch, speedometer sender (Hall sender, on gearbox)

- F1 - Oil pressure switch
- F66 - Coolant shortage indicator switch
- G22 - Speedometer sender (Hall sender, on gearbox)
- J285 - Control unit with display in dash panel insert
- T10 - 10-pin connector, black, connector point, 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
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- * - Only models with manual gearbox or automatic gearbox (multitronic 01J)



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