

Audi A4

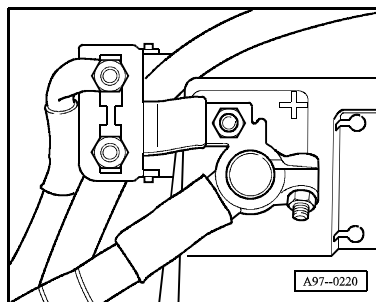
Current Flow Diagram

No. 65/1

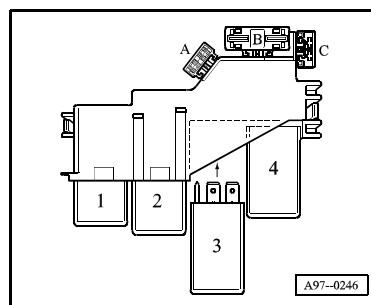
1.8 litre fuel injection engine (125 kW - Motronic - 4-cylinder), engine code AMB, with diagnostic pump for leakage in fuel system

From model year 2002

Main fuse



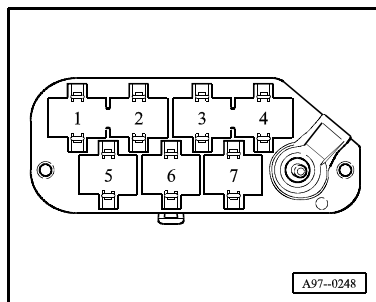
Relay carrier, electronics box



Position of relays:

- 2** - Secondary air pump relay
- 3** - Motronic current supply relay
- 4** - Starter inhibitor relay (clutch pedal switch)
- A** - Fuse for Motronic
- B** - Secondary air pump fuse

Connector point, electronics box, plenum chamber

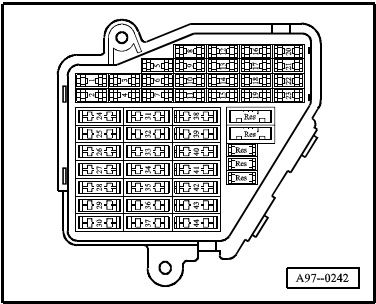


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Current Flow Diagram

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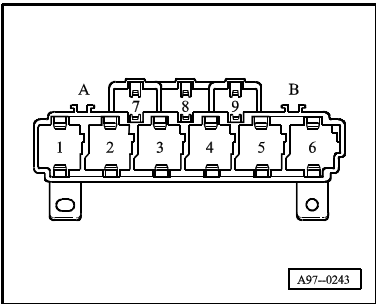
Fuse box



- Fuse colours:
- 30 A - green
 - 25 A - white
 - 20 A - yellow
 - 15 A - blue
 - 10 A - red
 - 7.5 A - orange
 - 5 A - beige

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

9-point relay carrier (in dash panel)

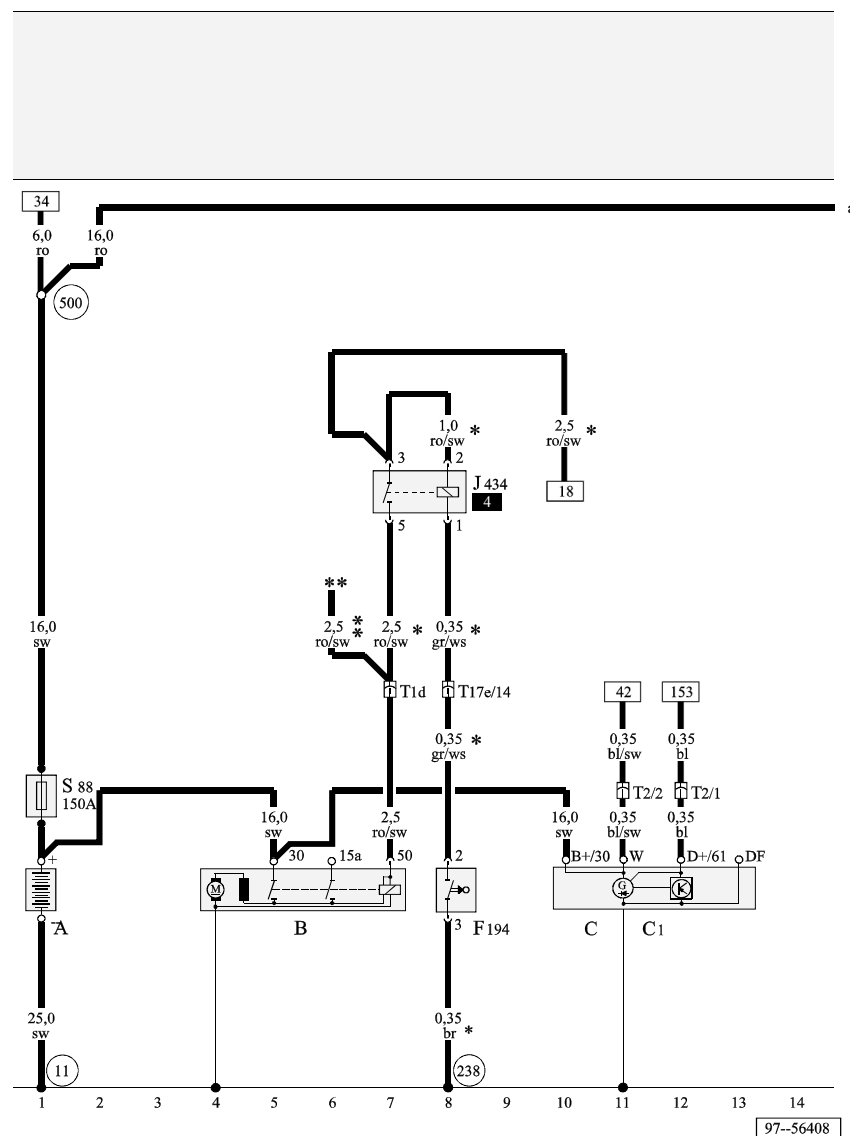


- Position of relays:
- 1** - Fuel pump relay
 - 4** - Brake servo relay

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Current Flow Diagram

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Battery, starter, alternator, starter inhibitor relay, clutch pedal switch

- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- F194 - Clutch pedal switch
- J434 - Starter inhibitor relay (clutch pedal switch) 📷
- S88 - Strip fuse (main fuse) 📷
- T1d - Single connector, black, engine compartment, left
- T2 - 2-pin connector, black, engine compartment, right
- T17e - 17-pin connector, white, connector point, electronics box, plenum chamber
- 11 - Earth point, in battery box 📷
- 238 - Earth connection -1-, in interior wiring harness
- 500 - Screw connection -1- (30), on relay plate
- * - Only models with manual gearbox
- ** - See applicable Current Flow Diagram: Automatic gearbox (multitronic 01J or AG5)

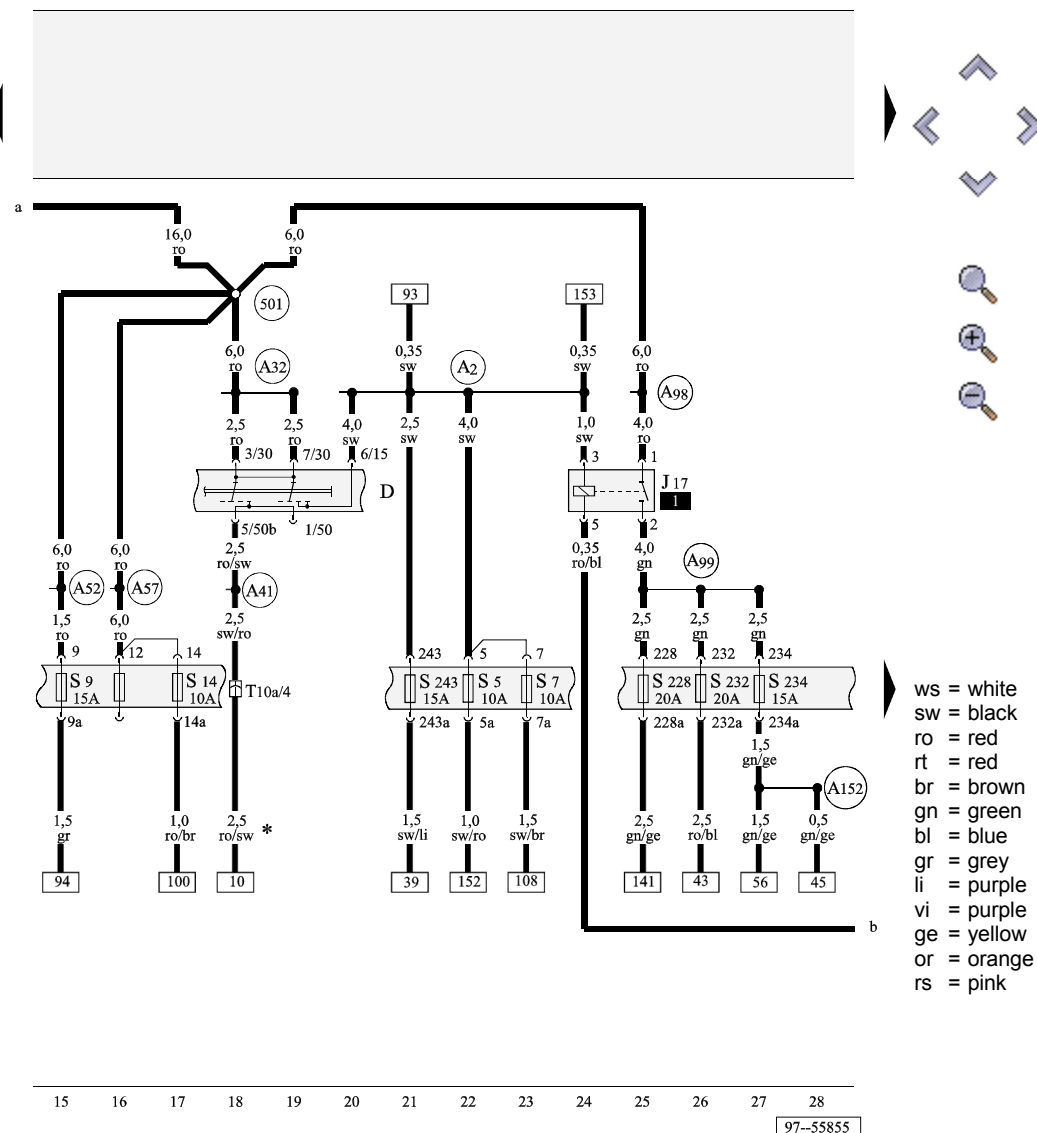
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

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Current Flow Diagram

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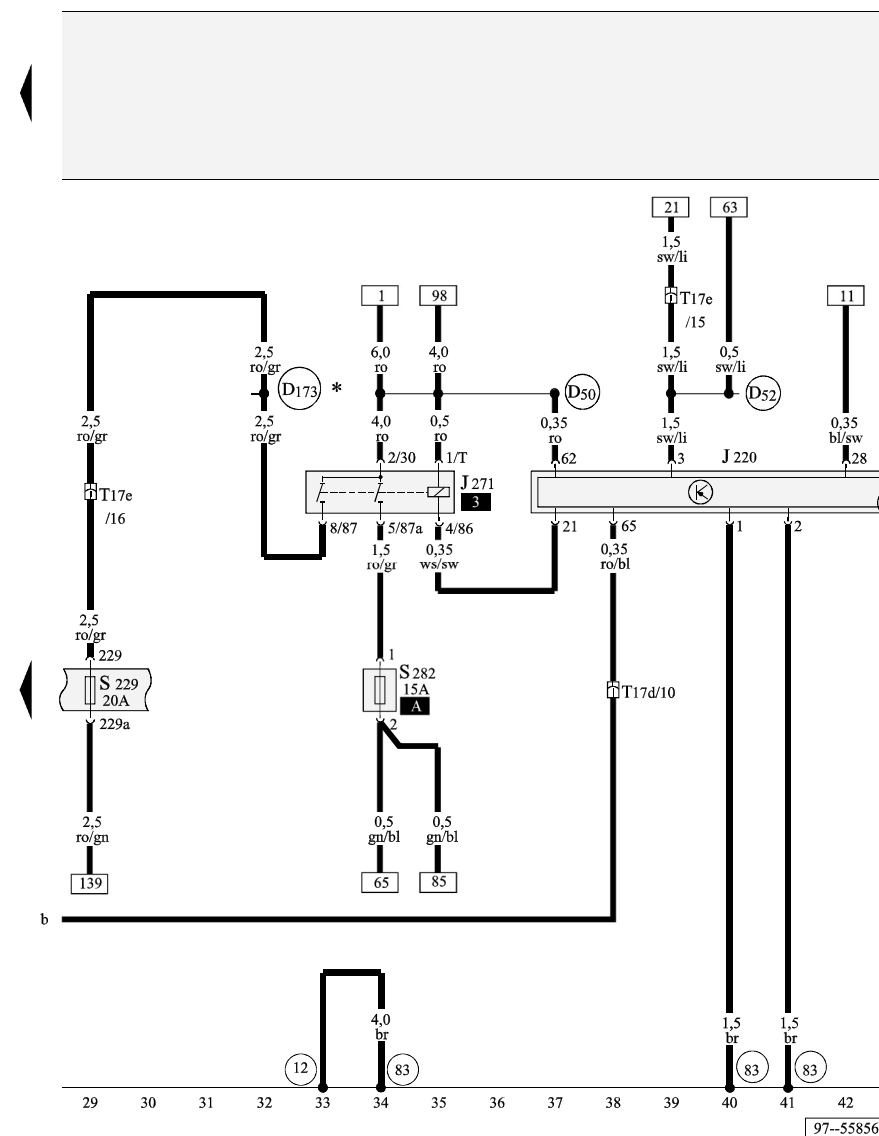
Ignition/starter switch, fuel pump relay, fuses

- D - Ignition/starter switch
- J17 - Fuel pump relay
- S5 - Fuse in fuse box/relay plate
- S7 - Fuse in fuse box/relay plate
- S9 - Fuse in fuse box/relay plate
- S14 - Fuse in fuse box/relay plate
- S228 - Fuse in fuse box
- S232 - Fuse in fuse box
- S234 - Fuse in fuse box
- S243 - Fuse in fuse box
- T10a - 10-pin connector, brown, connector point, electronics box, plenum chamber
- 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
- A41 - Positive (+) connection (50), in dash panel wiring harness
- A52 - Positive (+) connection -2- (30), in dash panel wiring harness
- A57 - Positive (+) connection -3- (30), in dash panel wiring harness
- A98 - Positive (+) connection -4- (30), in dash panel wiring harness
- A99 - Connection -1- (87), in dash panel wiring harness
- A152 - Connection -5- (87), in dash panel wiring harness
- * - Only models with manual gearbox

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Current Flow Diagram

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**Motronic control unit, Motronic current supply relay**

- J220 - Motronic control unit
- J271 - Motronic current supply relay
- S229 - Fuse in fuse box
- S282 - Engine electronics fuse
- T17d - 17-pin connector, red, connector point, electronics box, plenum chamber
- 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
- D50 - Positive (+) connection (30), in engine compartment wiring harness
- D52 - Positive (+) connection (15a), in engine compartment wiring harness
- D173 - Connection (87), in engine prewiring wiring harness
- * - Only models with automatic gearbox (multitronic 01J)

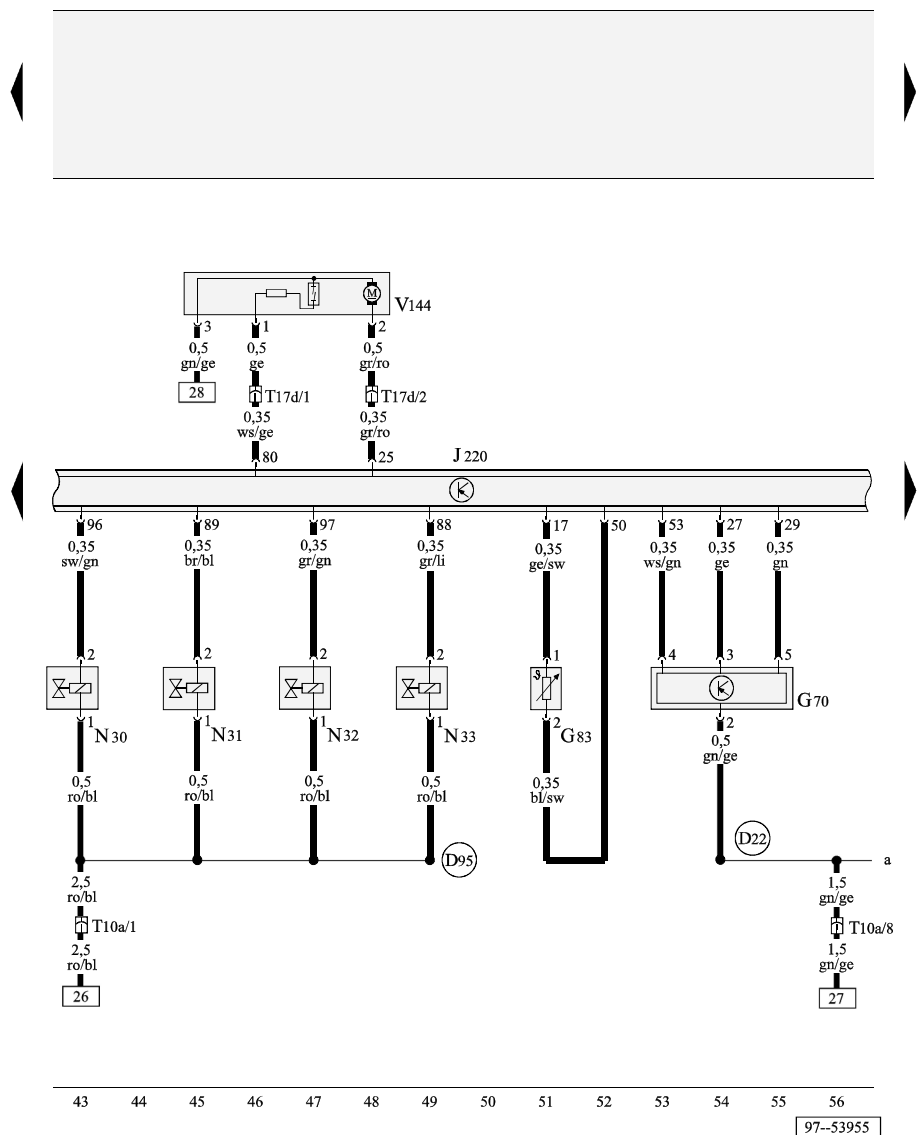
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 gn = green
 bl = blue
 gr = grey
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 vi = purple
 ge = yellow
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Current Flow Diagram

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Motronic control unit, air mass meter, coolant temperature sender - radiator outlet, injectors, fuel system diagnostic pump

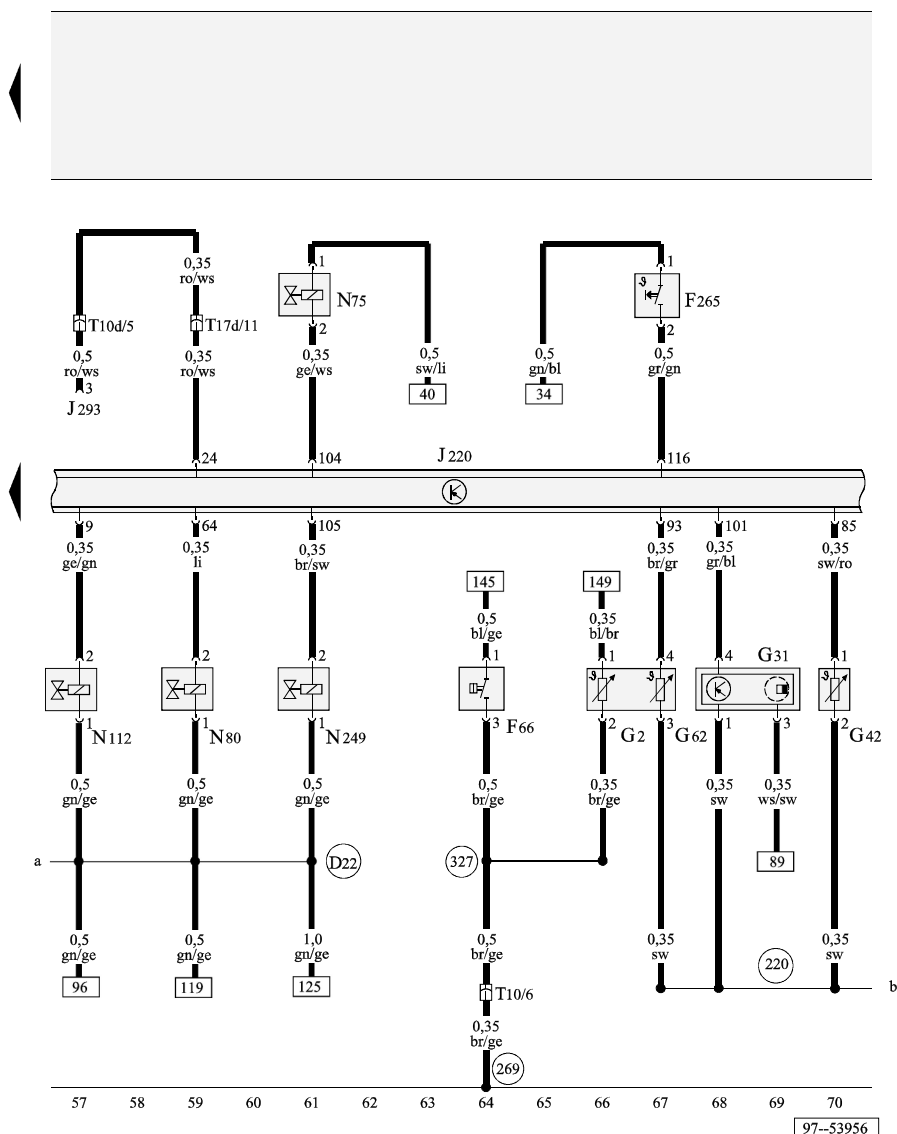
- G70 - Air mass meter
- G83 - Coolant temperature sender - radiator outlet
- J220 - Motronic control unit
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- T10a - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T17d - 17-pin connector, red, connector point, electronics box, plenum chamber
- V144 - Fuel system diagnostic pump
- D22 - Connection (via fuse 234), in front right wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness

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 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
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 rs = pink

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Current Flow Diagram

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Motronic control unit, coolant temperature senders, charge air pressure sender, by-pass air cut-off valve, intake air temperature sender, charge pressure control solenoid valve

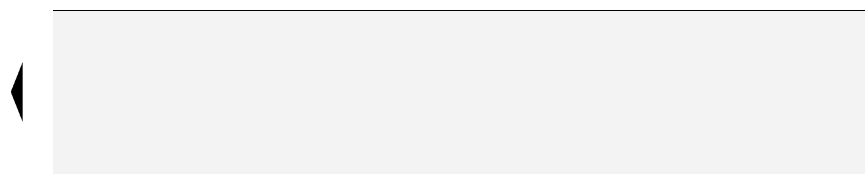
- F66 - Coolant shortage indicator switch
- F265 - Map-controlled engine cooling thermostat
- G2 - Coolant temperature sender
- G31 - Charge air pressure sender
- G42 - Intake air temperature sender
- G62 - Coolant temperature sender
- J220 - Motronic control unit
- J293 - Radiator fan control unit
- N75 - Charge pressure control solenoid valve
- N80 - Activated charcoal filter system solenoid valve 1 (pulsed)
- N112 - Secondary air inlet valve
- N249 - Turbocharger divert air valve
- 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
- 220 - Earth connection (sender earth), in engine wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- D22 - Connection (via fuse 234), in front right wiring harness

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ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
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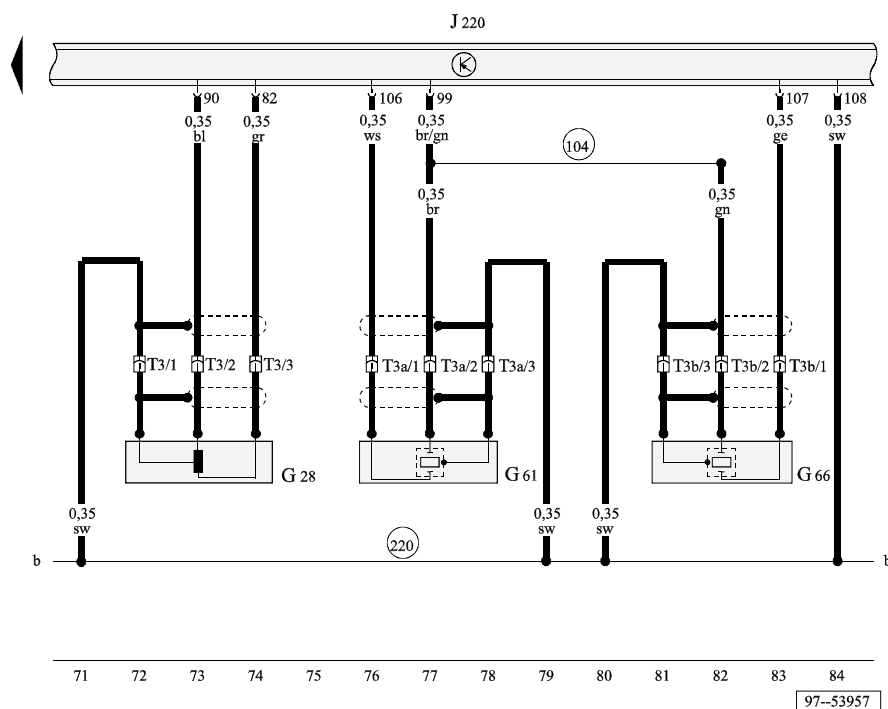
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Current Flow Diagram

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**Motronic control unit, engine speed sender, knock sensor I, knock sensor II**

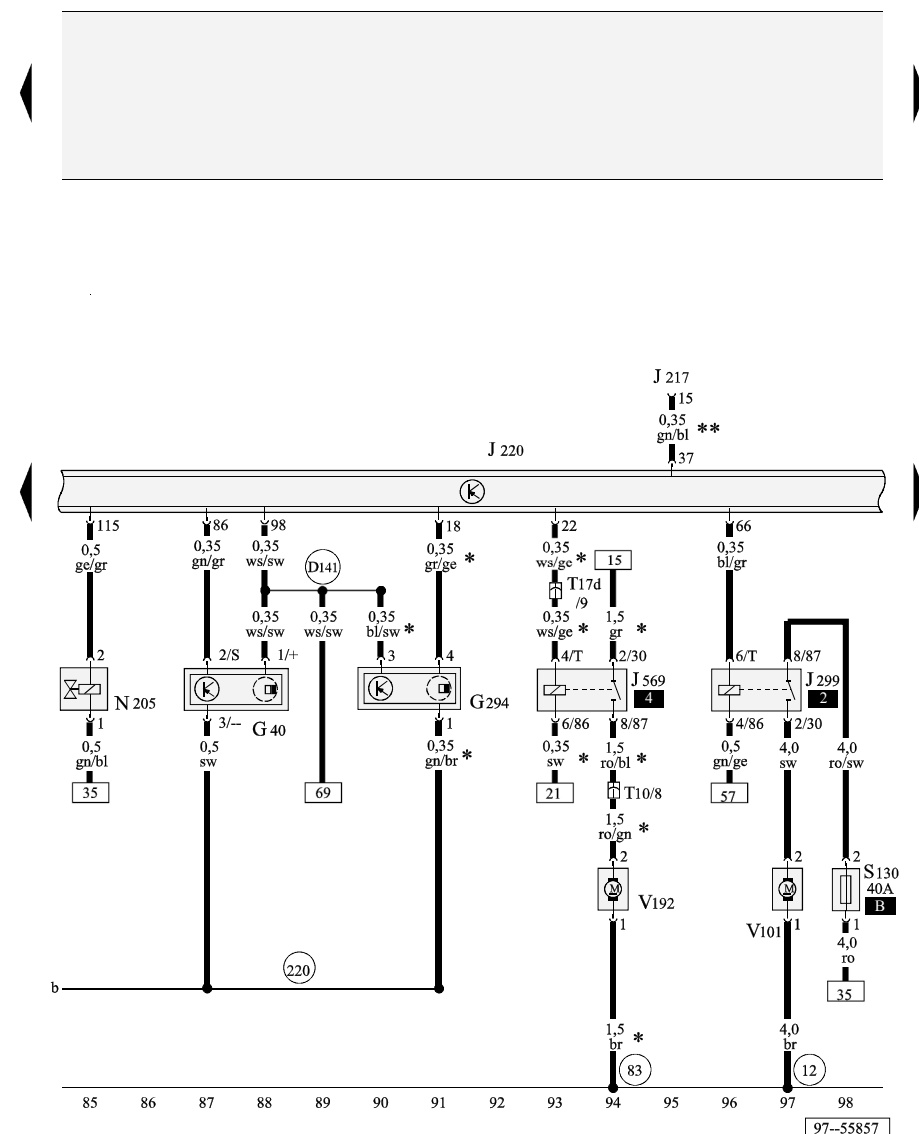
- G28 - Engine speed sender
- G61 - Knock sensor I
- G66 - Knock sensor II
- J220 - Motronic control unit
- T3 - 3-pin connector, grey, on engine block
- T3a - 3-pin connector, green, on engine block
- T3b - 3-pin connector, blue, on engine block
- 104 - Earth connection, in front right wiring harness (sensor earth)
- 220 - Earth connection (sender earth), in engine wiring harness



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Current Flow Diagram

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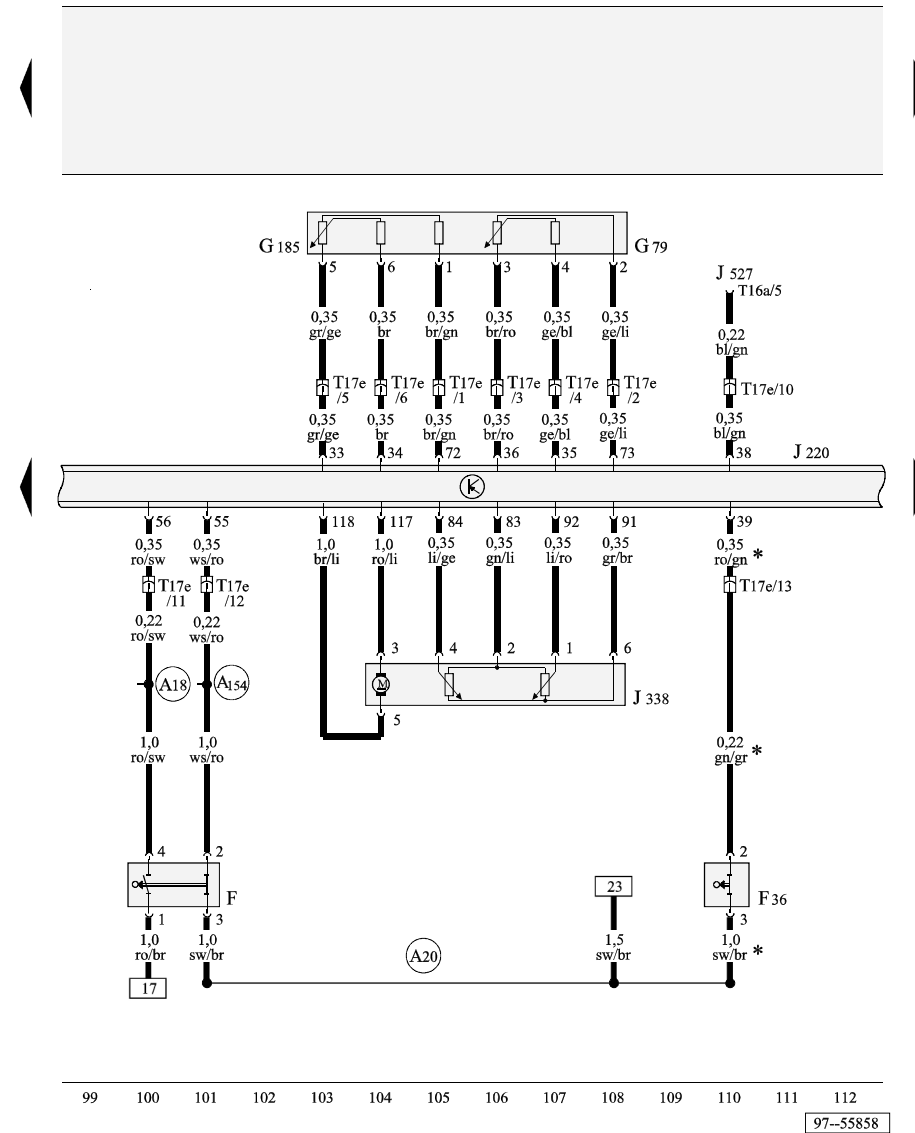
Motronic control unit, inlet camshaft timing adjustment valve -1-, secondary air pump, Hall sender, vacuum pump for brakes

- G40 - Hall sender
- G294 - Brake servo pressure sensor
- J217 - Automatic gearbox control unit 📷
- J220 - Motronic control unit 📷
- J299 - Secondary air pump relay 📷
- J569 - Brake servo relay 📷
- N205 - Inlet camshaft timing adjustment valve -1-
- S130 - Secondary air pump fuse 📷
- T10 - 10-pin connector, black, connector point, electronics box, plenum chamber
- T17d - 17-pin connector, red, connector point, electronics box, plenum chamber
- V101 - Secondary air pump motor
- V192 - Vacuum pump for brakes
- 12 - Earth point, in engine compartment, left 📷
- 83 - Earth connection -1-, in front right wiring harness
- 220 - Earth connection (sender earth), in engine wiring harness
- D141 - Connection (5V), in engine prewiring wiring harness
- * - Only models with automatic gearbox (AG5 or multitronic 01J)
- ** - Only models with automatic gearbox (multitronic 01J)

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Current Flow Diagram

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**Motronic control unit, accelerator pedal position senders, throttle valve module**

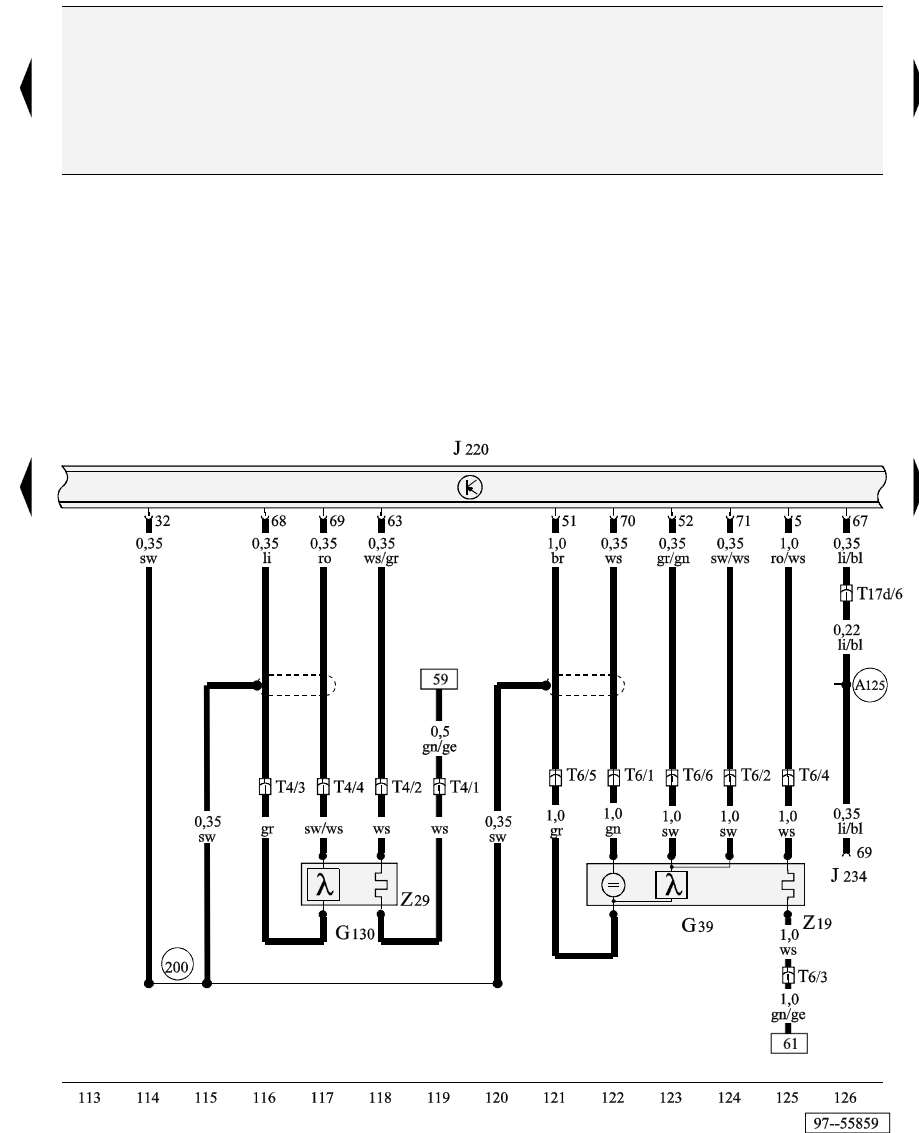
- F - Brake light switch
- F36 - Clutch pedal switch
- G79 - Accelerator pedal position sender
- G185 - Accelerator pedal position sender -2-
- J220 - Motronic control unit
- J338 - Throttle valve control unit
- J527 - Steering column electronics control unit
- T16a - 16-pin connector, black, on steering column electronics control unit
- T17e - 17-pin connector, white, connector point, electronics box, plenum chamber
- A18 - Connection (54), in dash panel wiring harness
- A20 - Connection (15a), in dash panel wiring harness
- A154 - Connection (brake pedal switch), in dash panel wiring harness
- * - Only models with manual gearbox

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Current Flow Diagram

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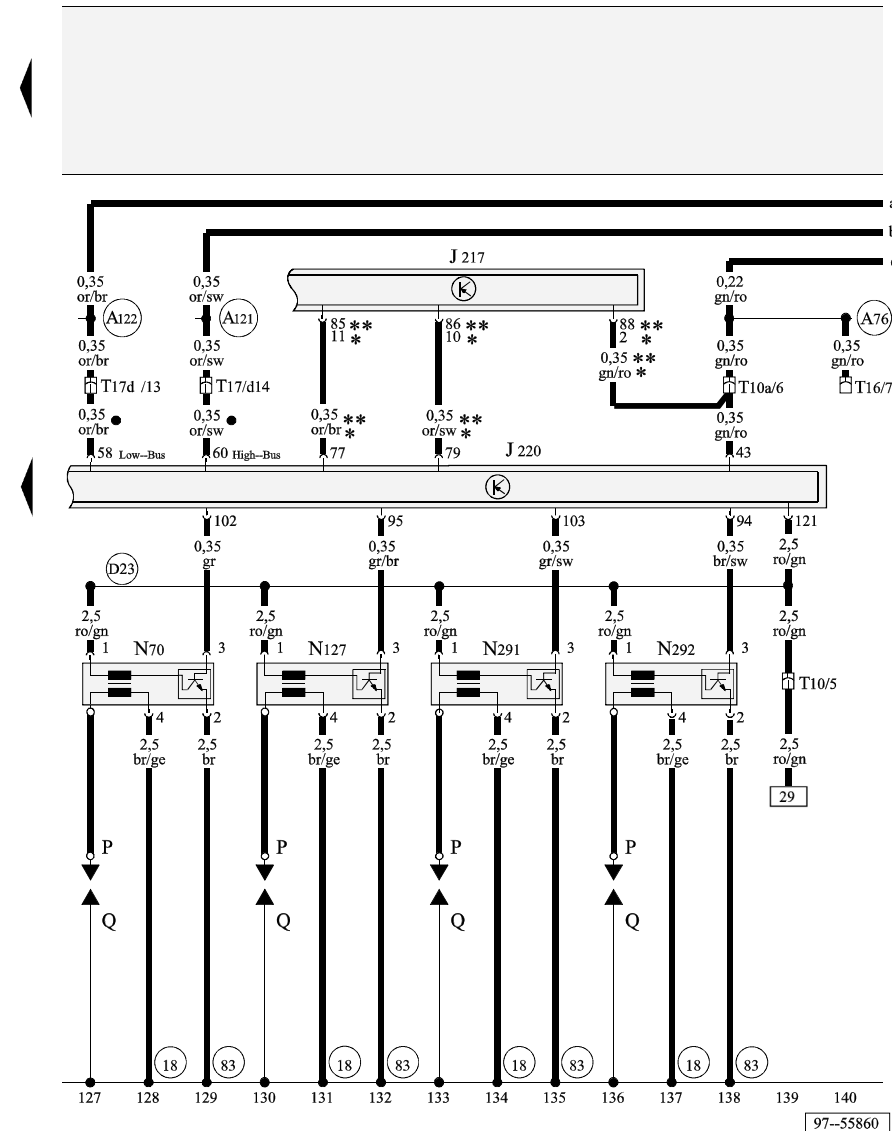
**Motronic control unit, lambda probes**

- G39 - Lambda probe
- G130 - Lambda probe downstream of catalytic converter
- J220 - Motronic control unit
- J234 - Airbag control unit
- T4 - 4-pin connector, brown, connector point, lambda probe (bulkhead)
- T6 - 6-pin connector, black, connector point, lambda probe (bulkhead)
- T17d - 17-pin connector, red, connector point, electronics box, plenum chamber
- Z19 - Lambda probe heater
- Z29 - Lambda probe 1 heater, downstream of catalytic converter
- 200 - Earth connection (screening), in engine compartment wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness

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Current Flow Diagram

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Motronic control unit, ignition coils

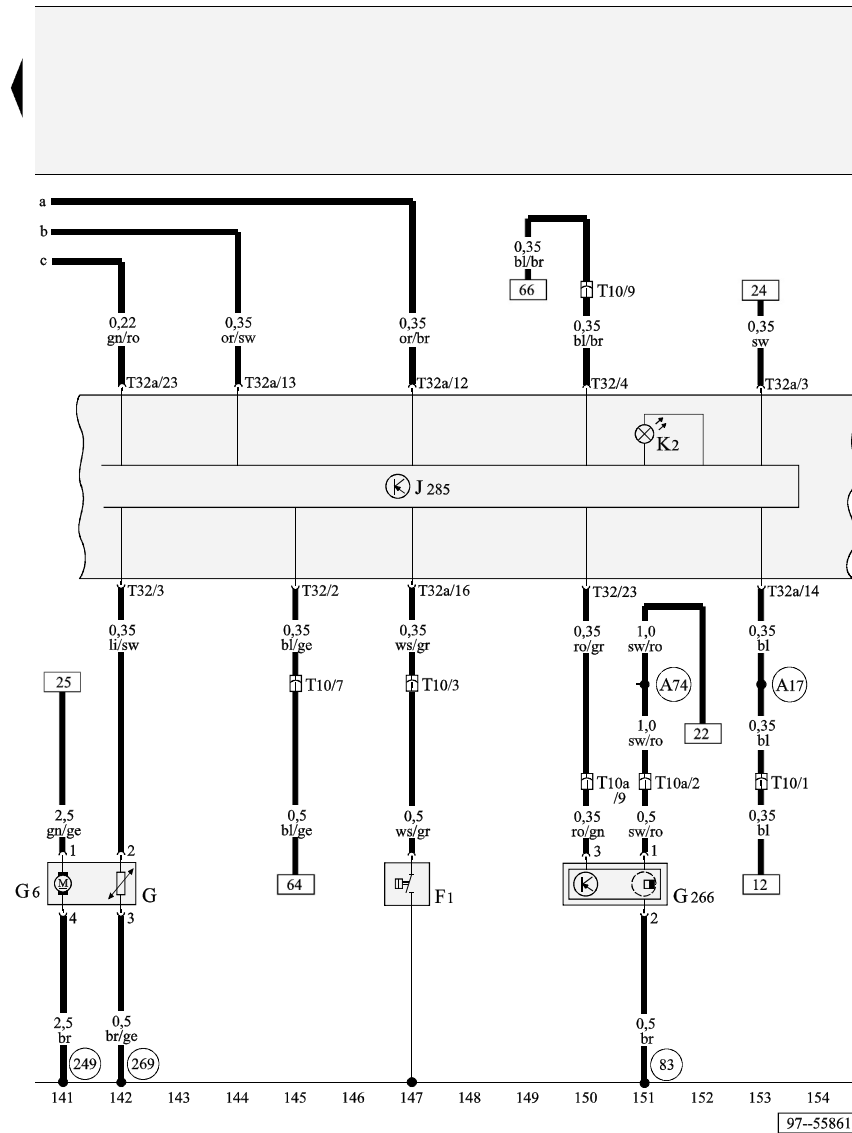
- J217 - Automatic gearbox control unit
- J220 - Motronic control unit
- N70 - Ignition coil 1 with output stage
- N127 - Ignition coil 2 with output stage
- N291 - Ignition coil 3 with output stage
- N292 - Ignition coil 4 with output stage
- P - Spark plug connector
- Q - Spark plugs
- T10 - 10-pin connector, black, connector point, electronics box, plenum chamber
- 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
- 18 - Earth point, on cylinder block
- 83 - Earth connection -1-, in front right wiring harness
- 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
- D23 - Connection (via fuse 229), in front right wiring harness
- * - Only models with automatic gearbox (multitronic 01J)
- ** - Only models with five-speed automatic gearbox (AG5)
- - CAN bus (data bus)

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Current Flow Diagram

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Control unit with display in dash panel insert, oil pressure switch, oil level/oil temperature sender, fuel pump

- F1 - Oil pressure switch
- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- G266 - Oil level/oil temperature sender
- J285 - Control unit with display in dash panel insert 📷
- K2 - Alternator 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

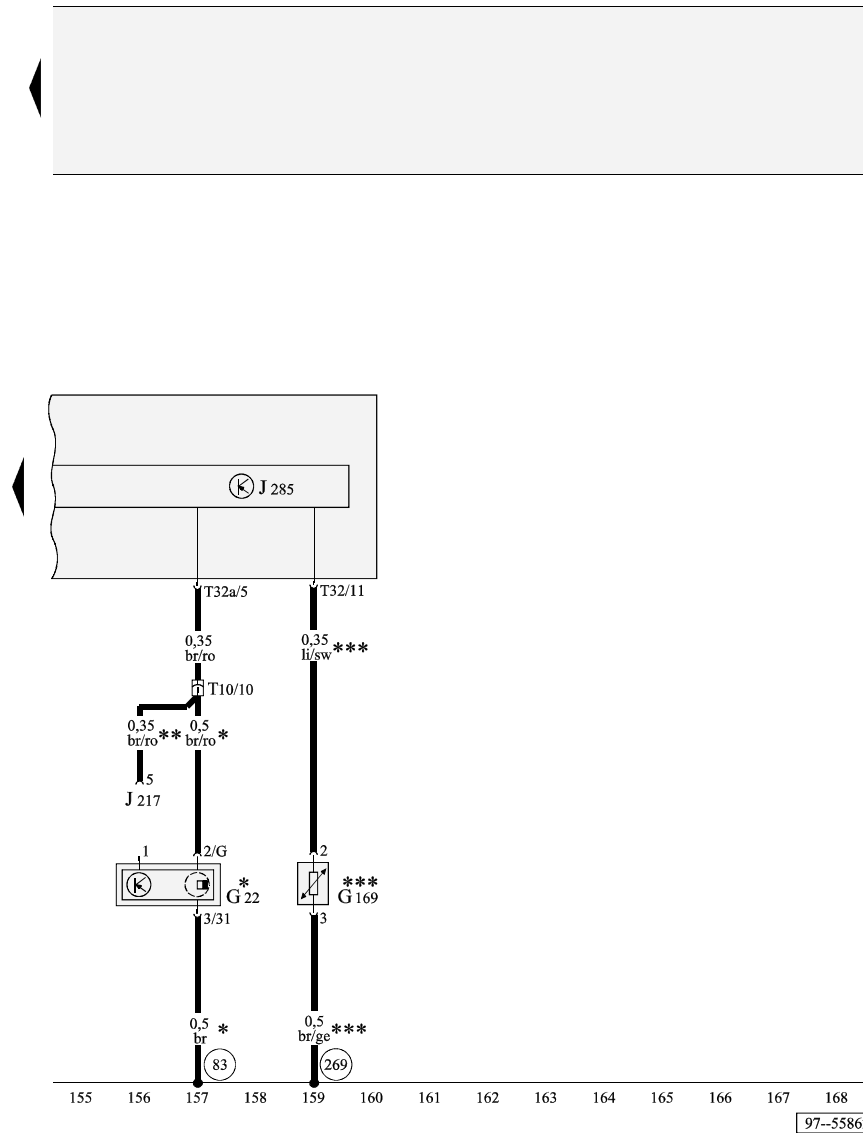
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 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

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Current Flow Diagram

No. 65 / 13



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

Control unit with display in dash panel insert, speedometer sender, fuel gauge sender -2-

- G22 - Speedometer sender (Hall sender, on gearbox)
- G169 - Fuel gauge sender -2-
- J217 - Automatic gearbox control unit
- 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
- * - Only applies to models with manual gearbox or automatic gearbox (AG5)
- ** - Only applies to models with automatic gearbox (multitronic 01J)
- *** - Only applies to models with four-wheel drive