

Audi A4

Current Flow Diagram

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Edition 05.2003

1.8 I - Fuel injection engine (110 kW - Motronic - 4 cylinder), engine code AVJ

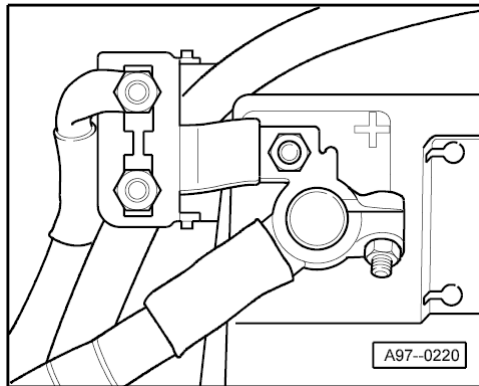
from model year 2002

1.8 I - Fuel injection engine (120 kW - Motronic - 4 cylinder), engine code BFB

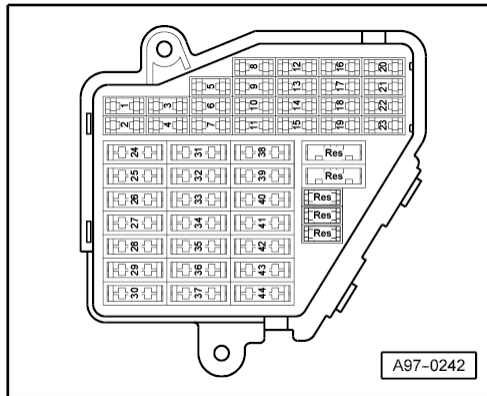
from model year 2002

1.8 I - Fuel injection engine (140 kW - Motronic - 4 cylinder), engine code BEX

from model year 2003

Main fuse

- ◆ On the battery

Fuse holder

◆ Driver side dash panel

Fuse colours

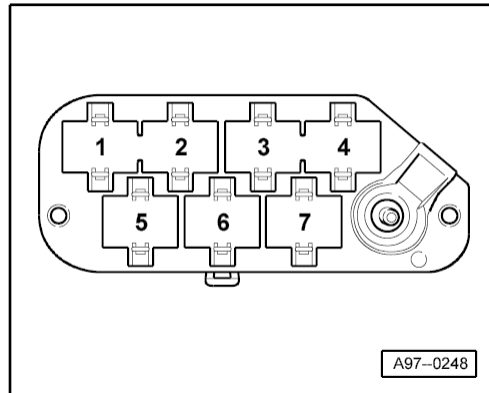
- 30 A - green
- 25 A - white
- 20 A - yellow
- 15 A - blue
- 10 A - red
- 7,5 A - brown
- 5 A - beige



Note:

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

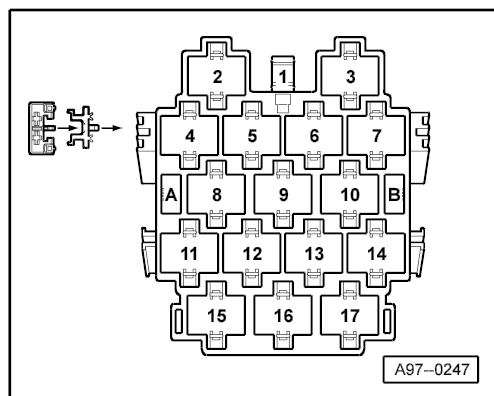
Coupling station with screw connection



◆ In electronics box in plenum chamber

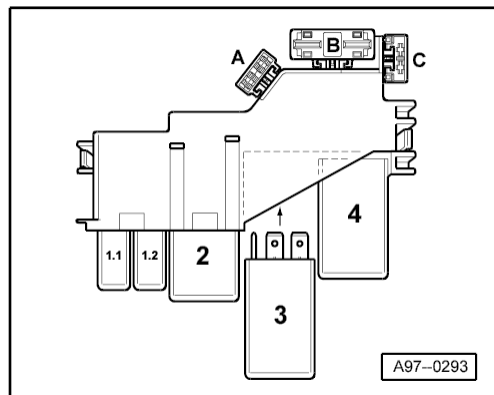
- 1 - 10-pin connector, black (T10)
- 2 - 10-pin connector, brown (T10a)
- 3 - 17-pin connector, red (T17d)
- 6 - 17-pin connector, white (T17e)

Coupling station of A-pillar



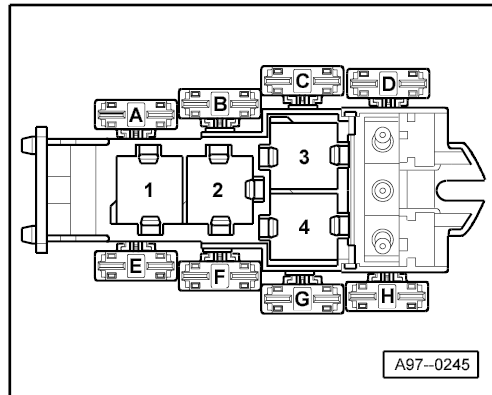
- ◆ Left bottom behind side trim
 - 13 - 10-pin connector, violet (T10c)
 - 14 - 10-pin connector, grey (T10d)
 - 15 - 17-pin connector, green (T17b)
 - 16 - 17-pin connector, red (T17a)
 - 17 - 17-pin connector, black (T17)

4-point relay carrier



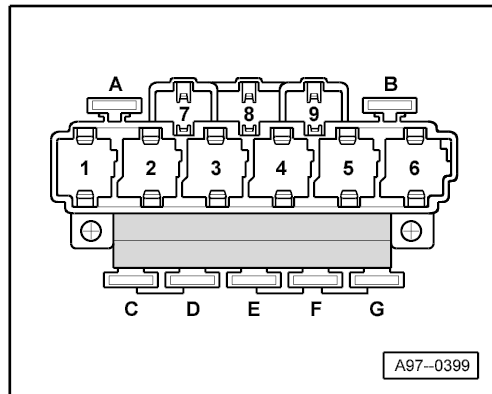
- ◆ In electronics box in plenum chamber
 - 2 - Secondary air pump relay
 - 3 - Motronic current supply relay
 - A - Engine electronics fuse
 - B - Secondary air pump fuse

4-point relay carrier with screw connection



- ◆ Driver side dash panel

9-point relay carrier with onboard supply control unit

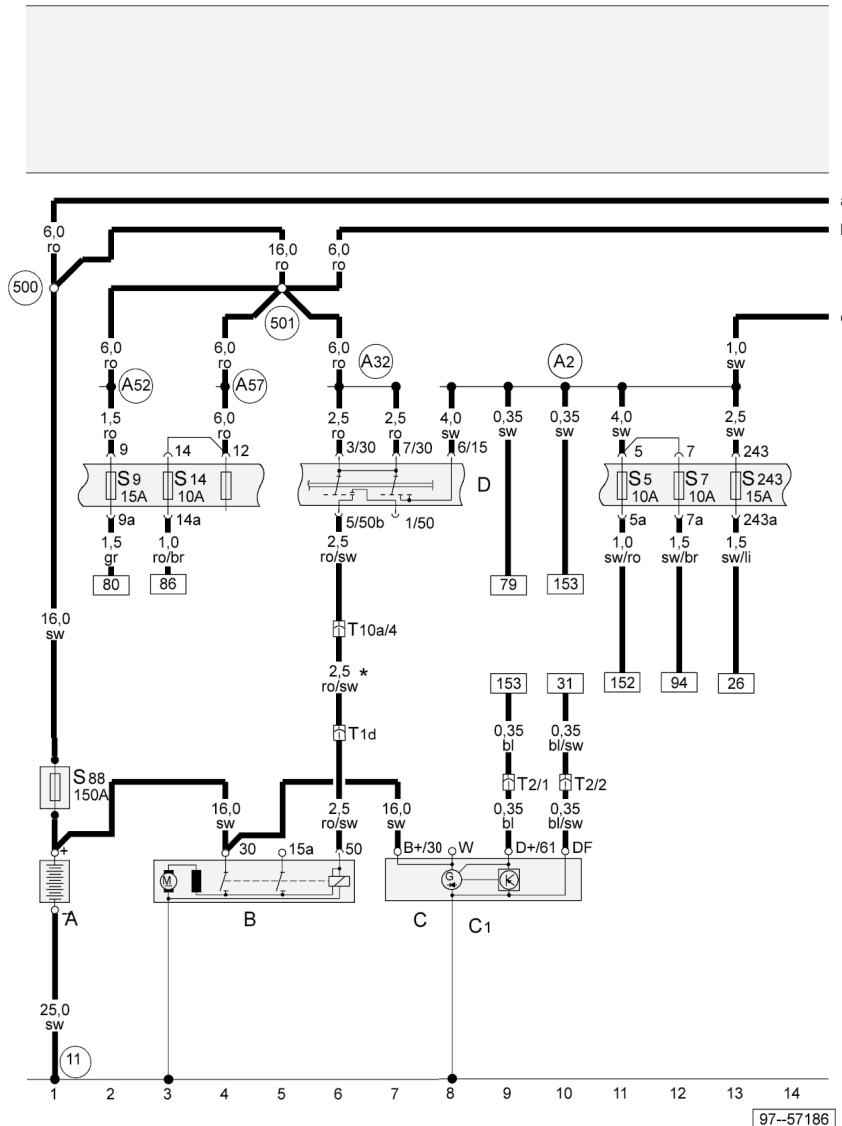


- ◆ Driver side dash panel, behind the 3-point relay carrier
 - 1 - Fuel pump relay
 - 4 - Brake servo relay

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Current Flow Diagram

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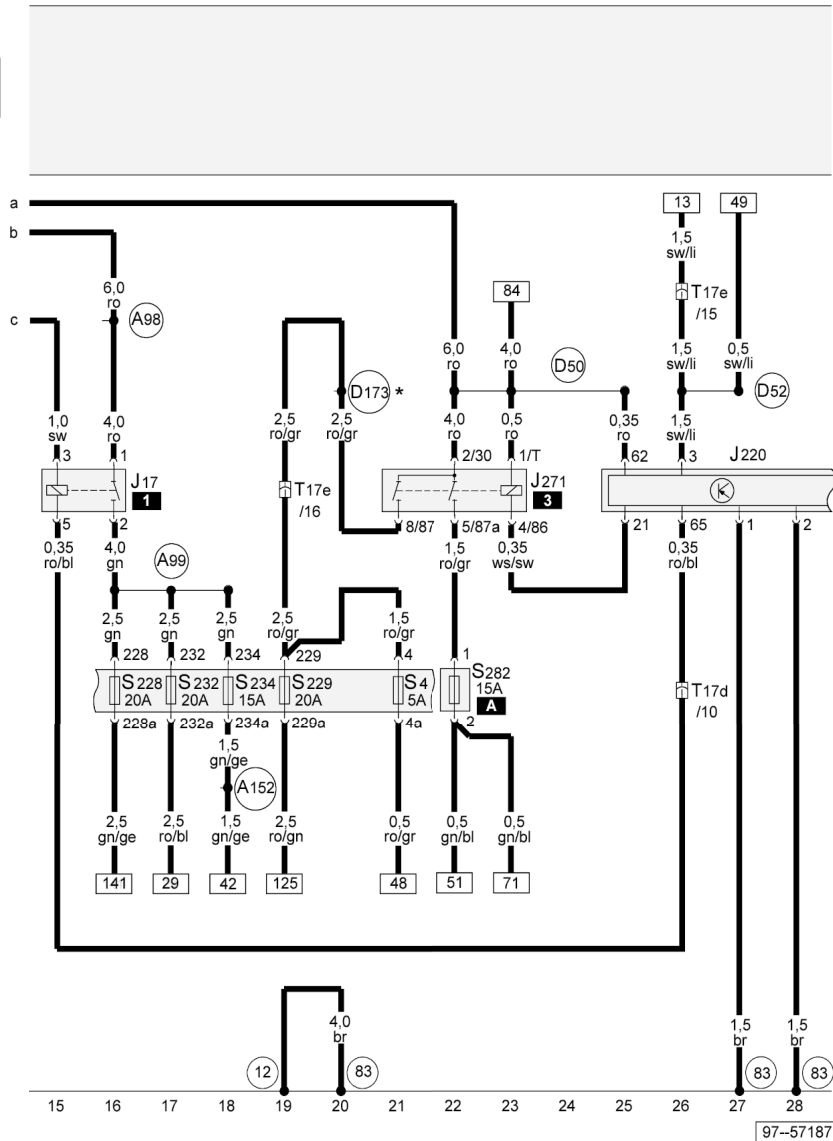


- Battery, starter, alternator, ignition/starter switch, fuses**
- A - Battery
 - B - Starter
 - C - Alternator
 - C1 - Voltage regulator
 - D - Ignition/starter switch
 - S5 - Fuse in fuse holder
 - S7 - Fuse in fuse holder
 - S9 - Fuse in fuse holder
 - S14 - Fuse in fuse holder
 - S88 - Strip fuse (main fuse)
 - S243 - Fuse in fuse holder
 - T1d - 1-pin connector, black, in 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
 - A52 - Positive connection 2 (30), in dash panel wiring harness
 - A57 - Positive connection 3 (30), in dash panel wiring harness
 - * - for models with manual gearbox only

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Current Flow Diagram

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

Fuel pump relay, Motronic control unit, Motronic current supply relay, fuses


- J17 - Fuel pump relay
- J220 - Motronic control unit
- J271 - Motronic current supply relay
- S4 - Fuse in relay plate fuse holder
- S228 - Fuse in fuse holder
- S229 - Fuse in fuse holder
- S232 - Fuse in fuse holder
- S234 - Fuse in fuse holder
- S282 - Engine electronics fuse
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- 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
- A99 - Connection 1 (87), in dash panel wiring harness
- A152 - Connection 5 (87), in dash panel 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 wiring harness
- * - for models with automatic gearbox (multitronic 01J) only

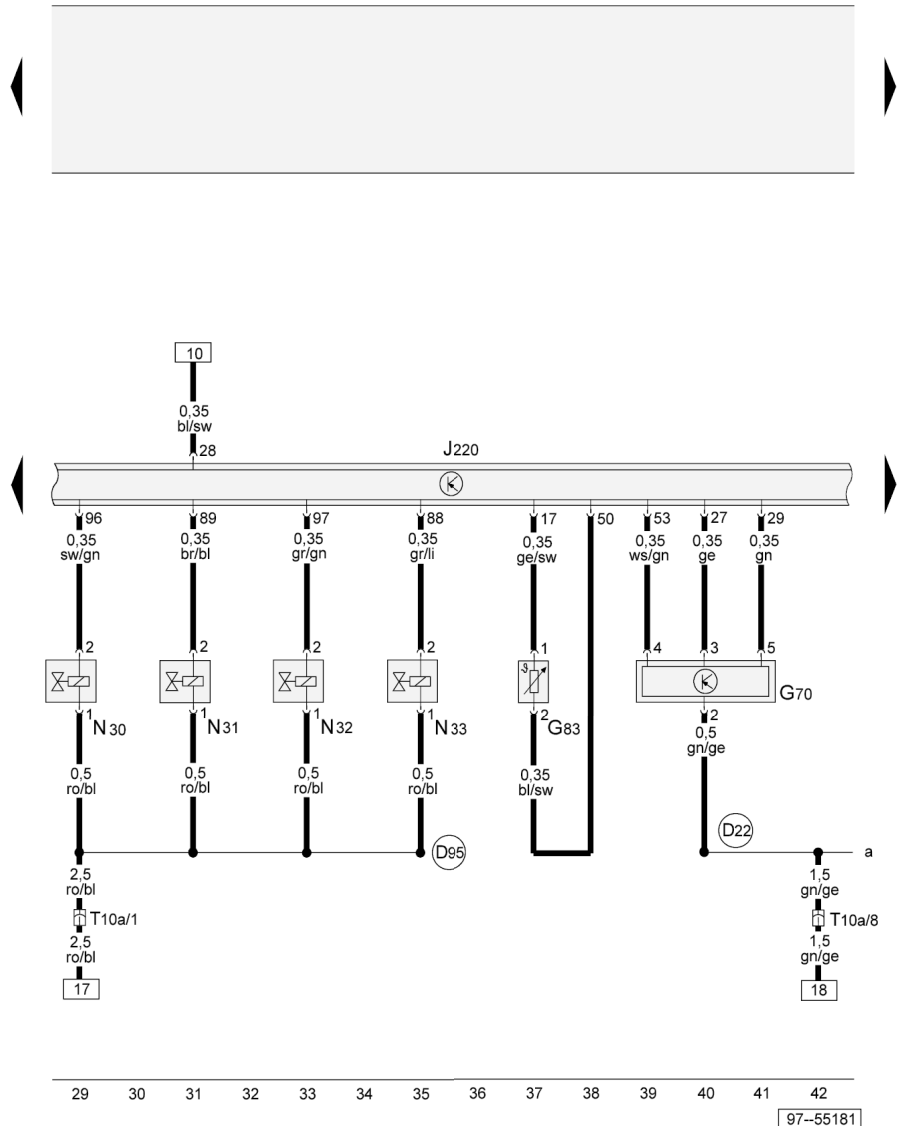
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Air mass meter, radiator outlet coolant temperature sender, Motronic control unit, injectors

- G70 - Air mass meter
- G83 - Radiator outlet coolant temperature sender
- 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, coupling station on electronics box, plenum chamber
- D22 - Connection (via fuse 234), in front right wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness

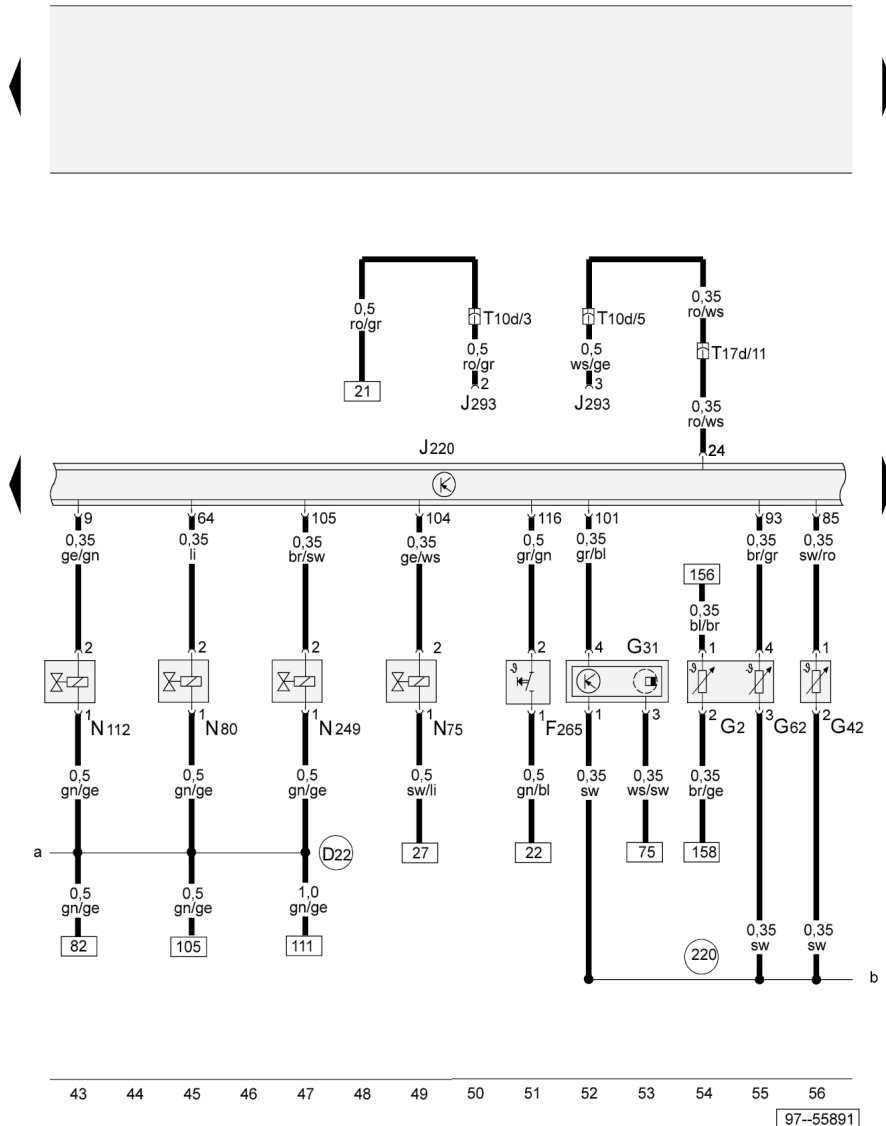


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Current Flow Diagram

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

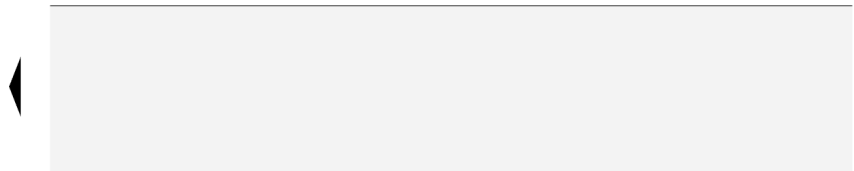
Coolant temperature sender, charge air pressure sender, intake air temperature sender, Motronic control unit, bypass air cut-off valve, charge pressure control solenoid valve


- F265 - Map-controlled engine cooling system 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 air recirculation valve
- T10d - 10-pin connector, grey, coupling station on left of A-pillar
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- 220 - Earth connection (sender earth), in engine wiring harness
- D22 - Connection (via fuse 234), in front right wiring harness

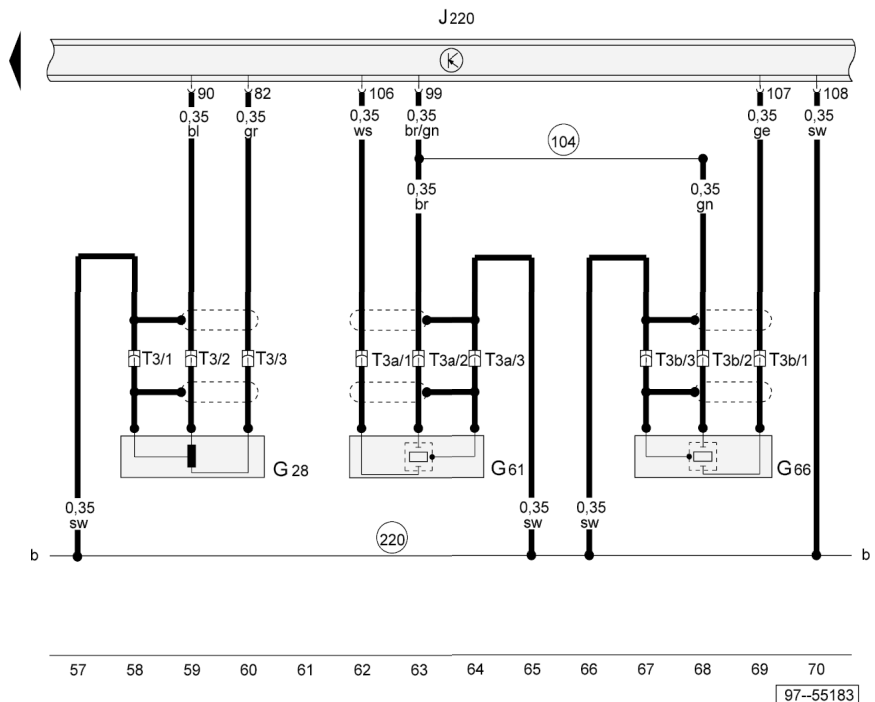
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Current Flow Diagram

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- Engine speed sender, knock sensor 1, knock sensor 2, Motronic control unit**
- G28 - Engine speed sender
 - G61 - Knock sensor 1
 - G66 - Knock sensor 2
 - 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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- bl = blue
- li = purple
- ge = yellow
- or = orange
- rs = pink

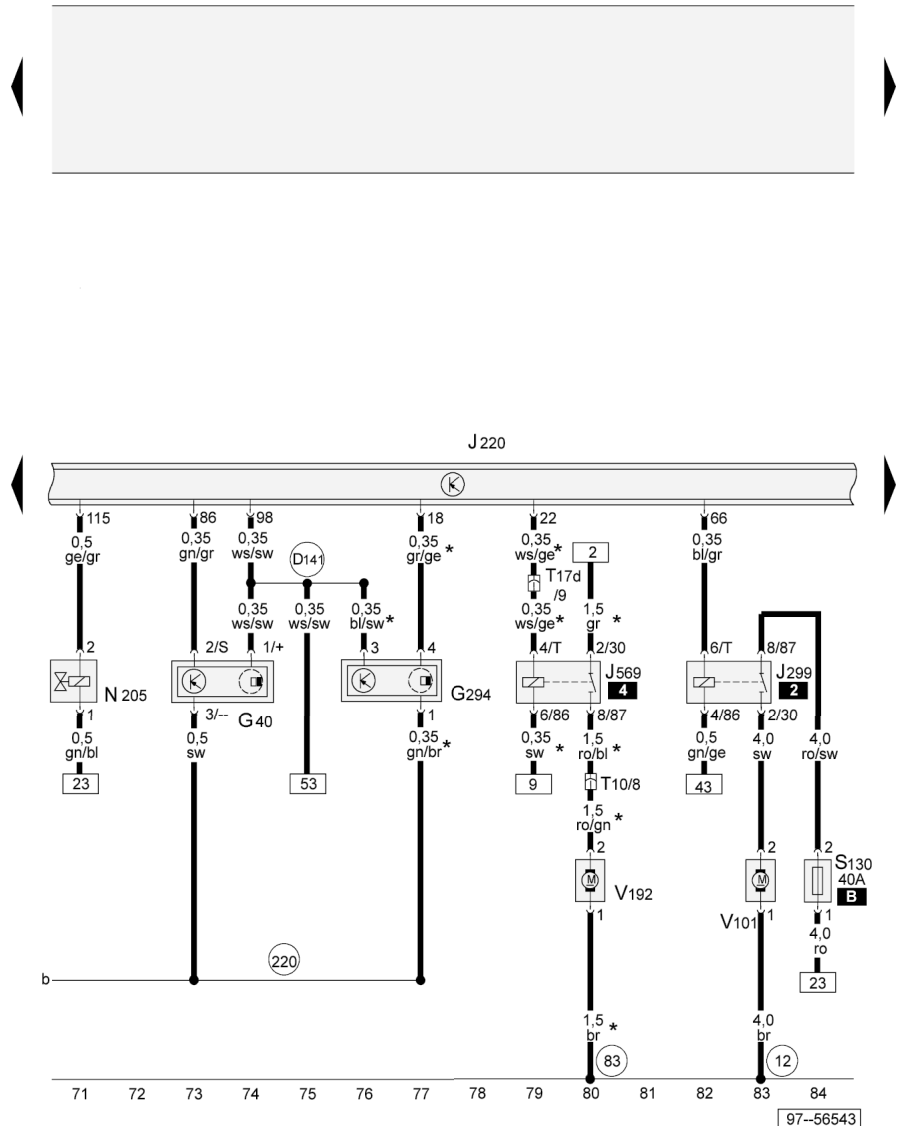
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Current Flow Diagram

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Hall sender, Motronic control unit, exhaust camshaft control valve 1, secondary air pump, vacuum pump for brakes

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

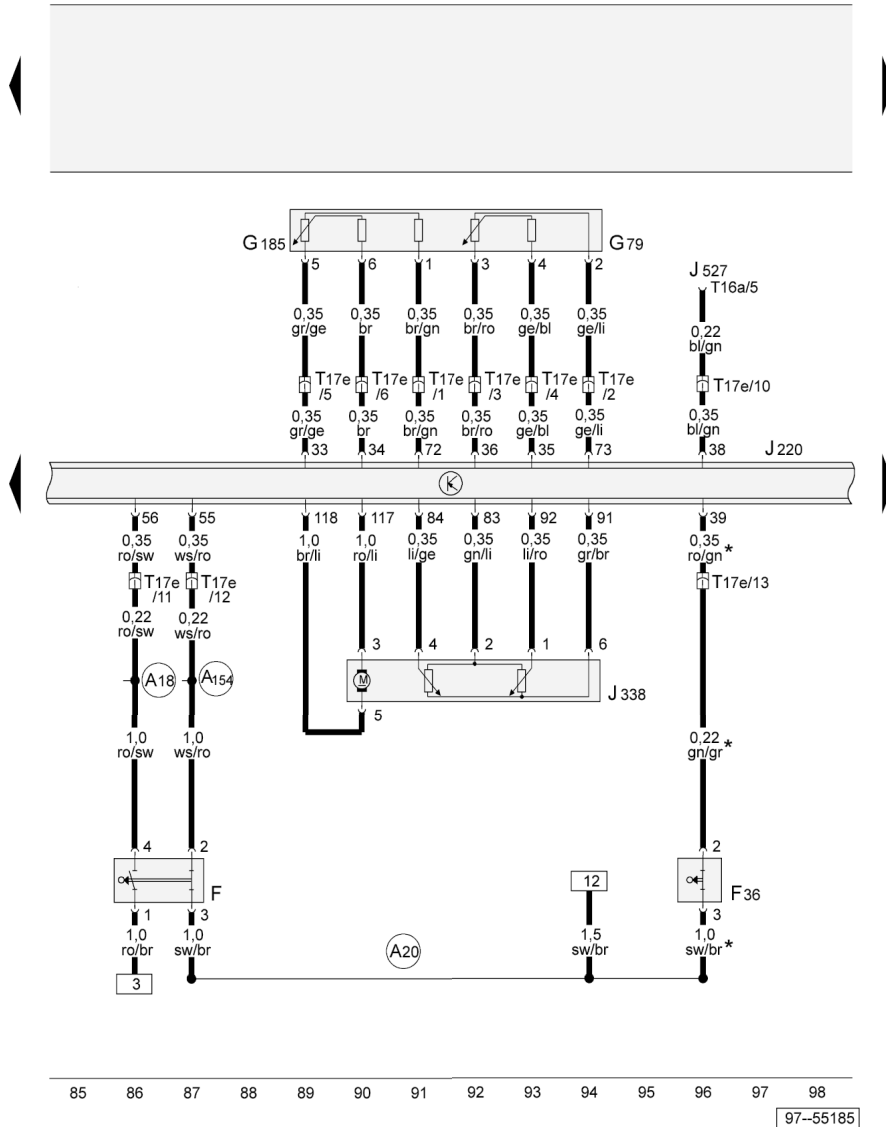


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Current Flow Diagram

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Accelerator position sender, Motronic control unit, throttle valve module

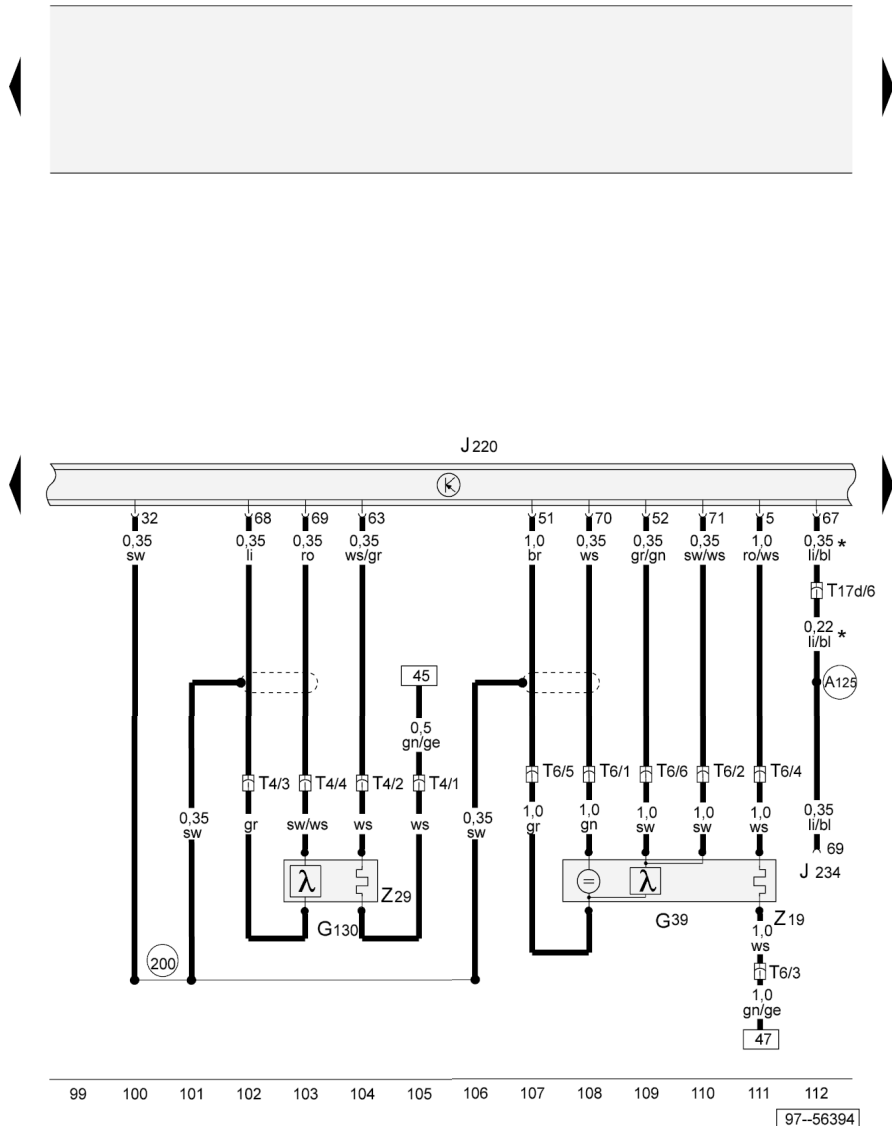
- F - Brake light switch
- F36 - Clutch pedal switch
- G79 - Accelerator position sender
- G185 - Accelerator position sender -2-
- J220 - Motronic control unit 
- J338 - Throttle valve module
- J527 - Steering column electronics control unit 
- T16a - 16-pin connector, black, on steering column electronics control unit
- T17e - 17-pin connector, white, coupling station on 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
- * - for models with manual gearbox only

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Current Flow Diagram

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Lambda probes, Motronic control unit

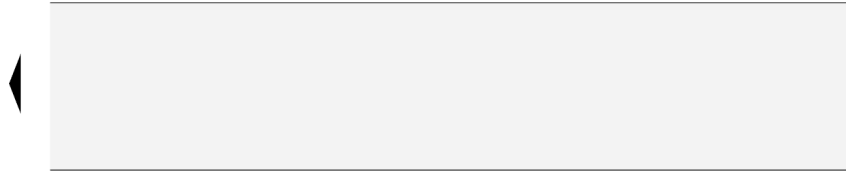
- G39 - Lambda probe
- G130 - Lambda probe after catalytic converter
- J220 - Motronic control unit 
- J234 - Airbag control unit 
- T4 - 4-pin connector, brown, connector point lambda probe (bulkhead)
- T6 - 6-pin connector, black, connector point lambda probe (bulkhead)
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- Z19 - Lambda probe heater
- Z29 - Lambda probe 1 heater after catalytic converter
- 200 - Earth connection (screening), in engine compartment wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- * - applicable up to model year 2005 (phased-in modification)



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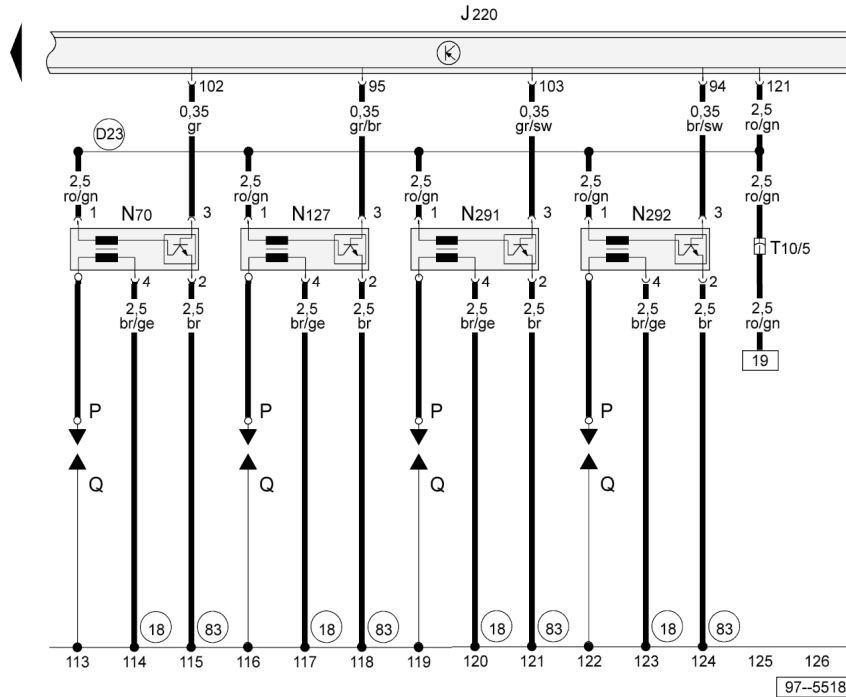
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Motronic control unit, ignition coils

- 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, coupling station on electronics box, plenum chamber
- 18 - Earth point, on engine block
- 83 - Earth connection 1, in front right wiring harness
- D23 - Connection (via fuse 229), in front right wiring harness

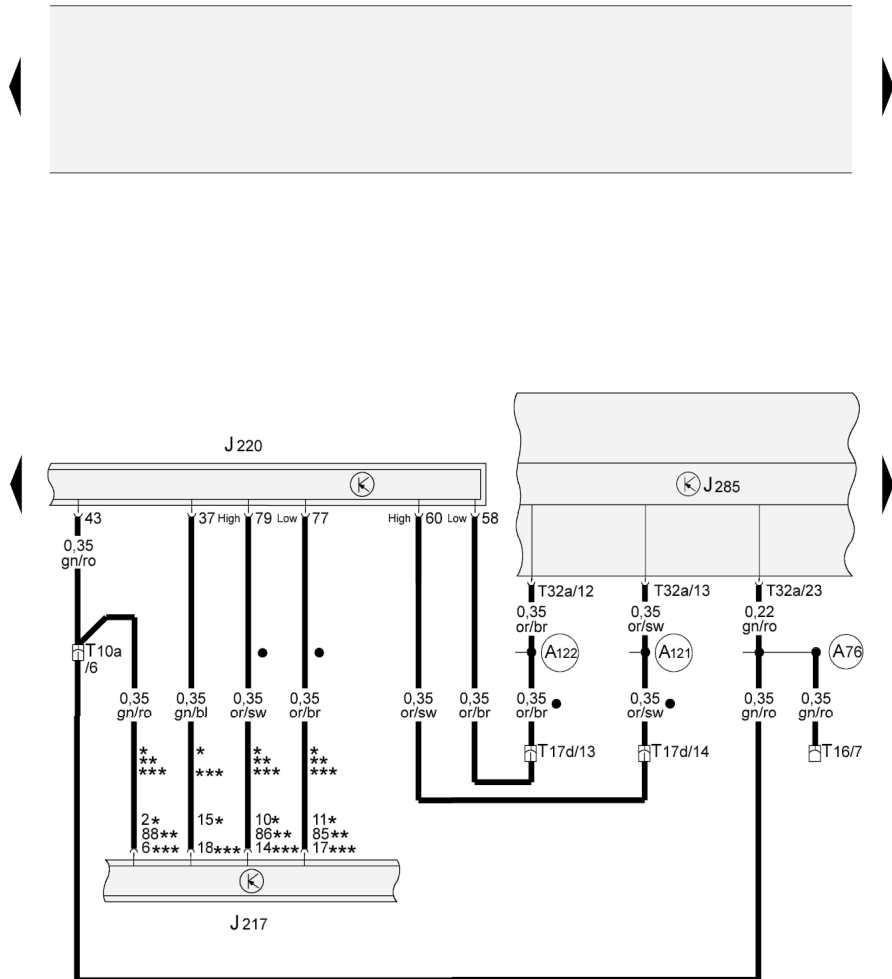


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- rs = pink

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Current Flow Diagram

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Motronic control unit, automatic gearbox control unit, data bus wire


- J217 - Automatic gearbox control unit
- J220 - Motronic 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
- * - for models with automatic gearbox (multitronic 01J) only, up to model year 2003
- ** - for models with automatic gearbox (AG5) only
- *** - for models with automatic gearbox (multitronic 01J) only, from model year 2004
- - Data bus wire (CAN bus)

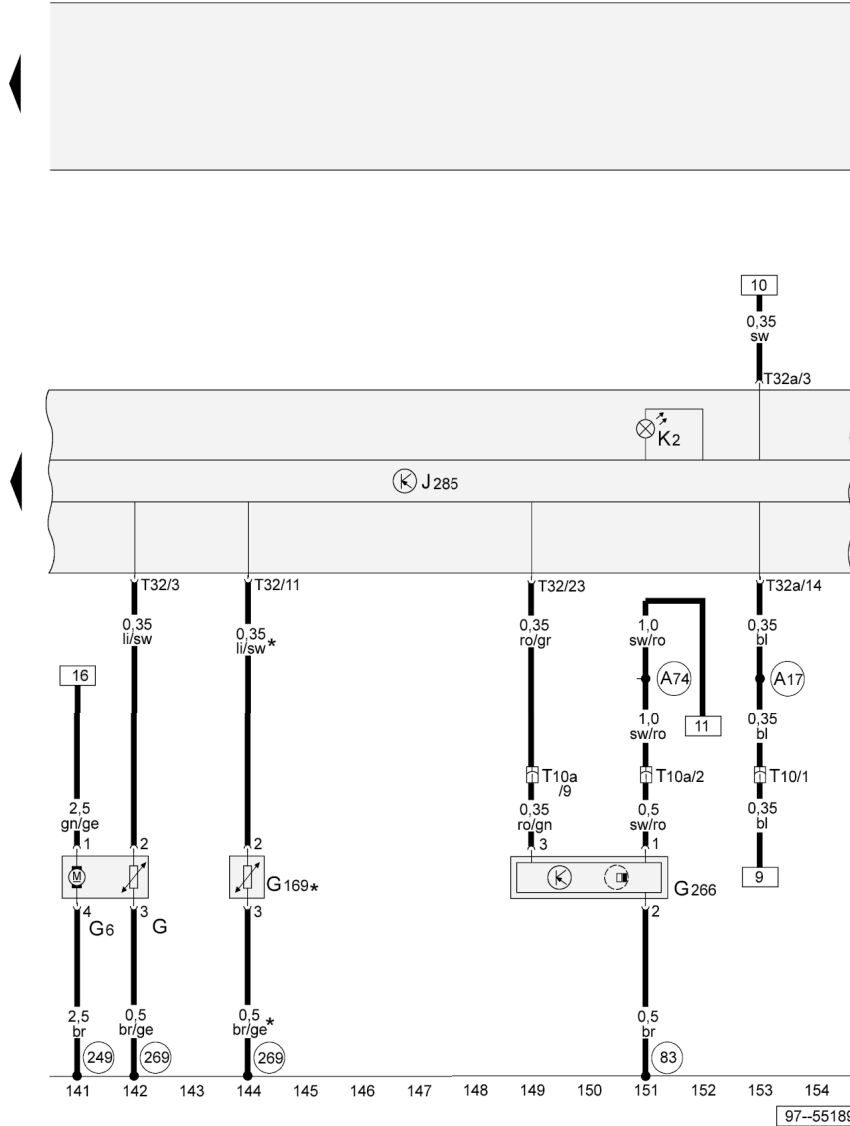
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Current Flow Diagram

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Control unit with display in dash panel insert, fuel pump, 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
- 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




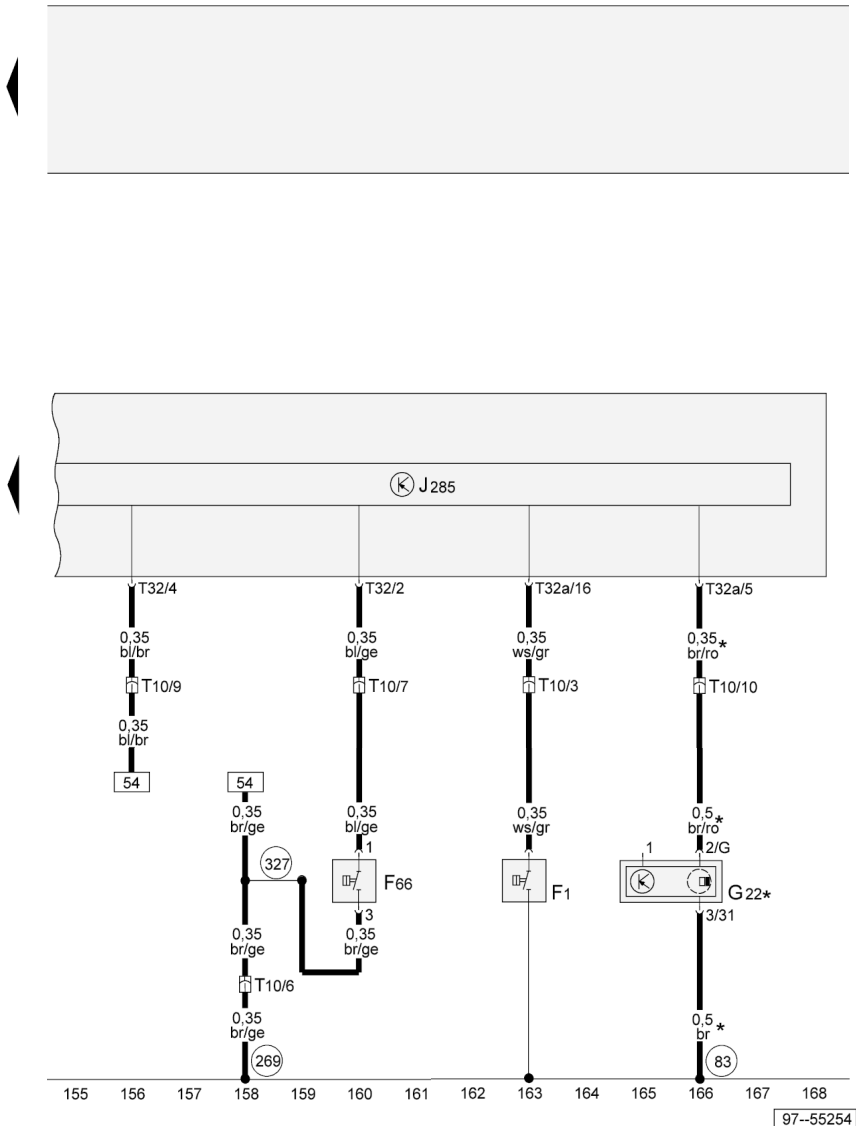
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Current Flow Diagram

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

- 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, 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
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- * - for models with manual gearbox or automatic gearbox (multitronic 01J) only, up to model year 2003



ws = white
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