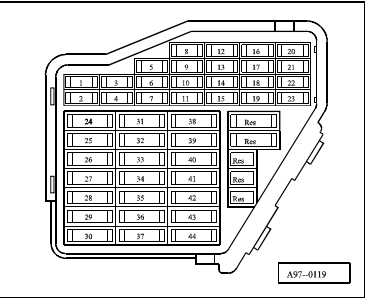


4.2 litre fuel injection engine (220 kW, 250 kW-Motronic-8-cylinder), engine codes ASG, ANK

From model year 2002

Fuse box

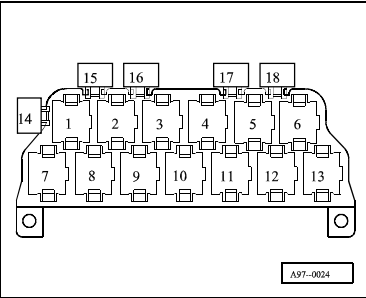


Fuse colours:

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

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

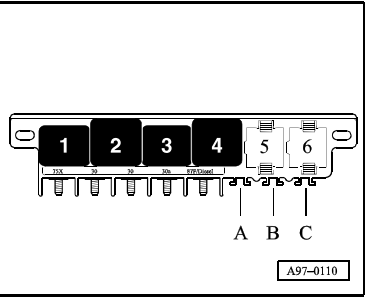
13-point relay carrier



Position of relays:

- 4 - Starter inhibitor relay (J207)

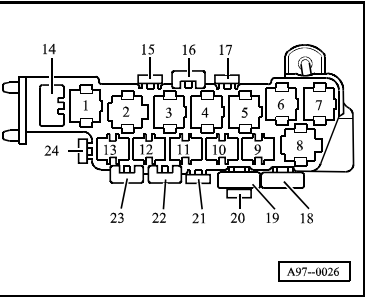
Micro-central electrics



Position of relays:

- 4 - Fuel pump relay (J17)
- 5 - Automatic intermittent wash/wipe relay (J31)
- 6 - Automatic intermittent wash/wipe relay (J31)

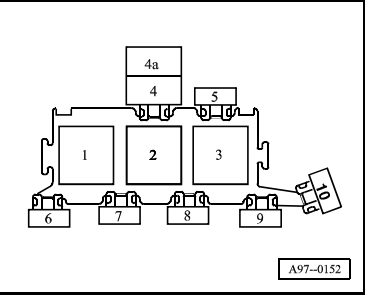
8-point relay carrier



Position of relays:

- 2 - Radiator fan 2nd speed relay (J101)
- 3 - Radiator fan relay (J26)
- 20 - Radiator fan fuse (S42)
- 21 - Radiator fan control unit fuse (S142)

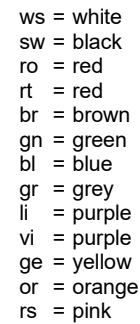
3-point relay carrier in electronics box, plenum chamber



Position of relays:

- 2 - Secondary air pump relay (J299)
- 3 - Motronic current supply relay (J271)
- 7 - Secondary air pump fuse (S130)

No. 10 / 2

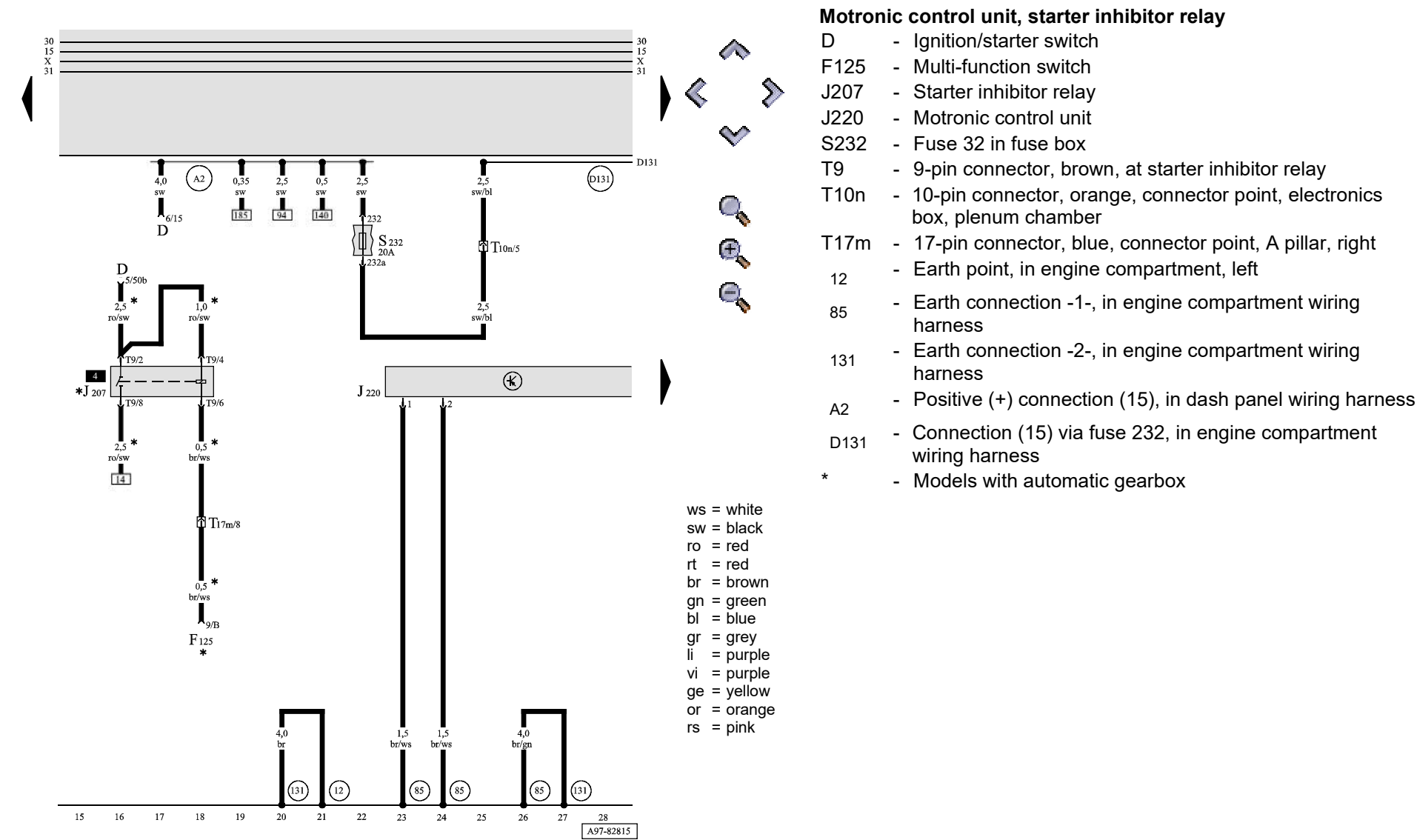


- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J31 - Automatic intermittent wash/wipe relay
- S204 - Fuse -1- (30)
- S205 - Fuse -2- (30)
- T3aw - 3-pin connector, black, in engine compartment, right
- T10o - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- 1 - Earth strap, battery - body
- 3 - Earth strap, engine - body
- 81 - Earth connection -1-, in dash panel wiring harness
- A17 - Connection (61), in dash panel wiring harness
- A41 - Positive (+) connection (50), in dash panel wiring harness
- * - Models with manual gearbox
- ** - Models with automatic gearbox

Audi A6

Current Flow Diagram

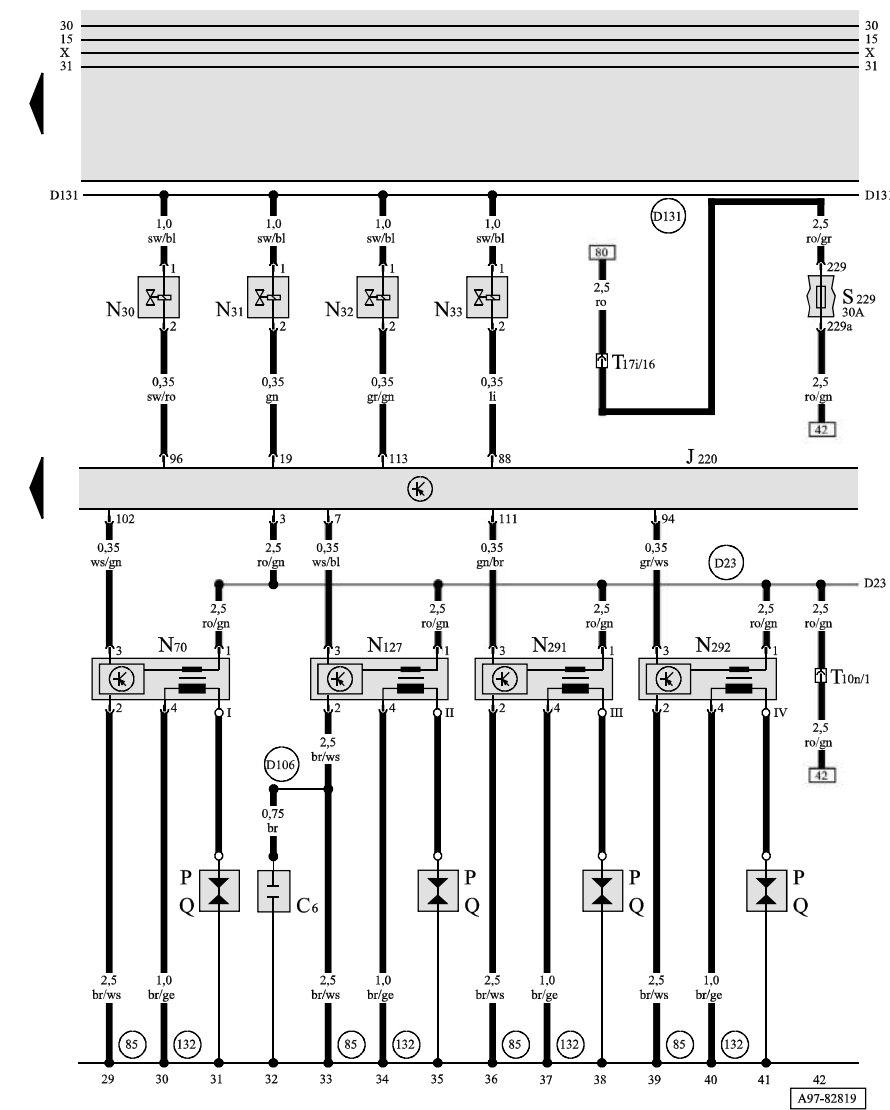
No. 10 / 3



Audi A6

Current Flow Diagram

No. 10 / 4



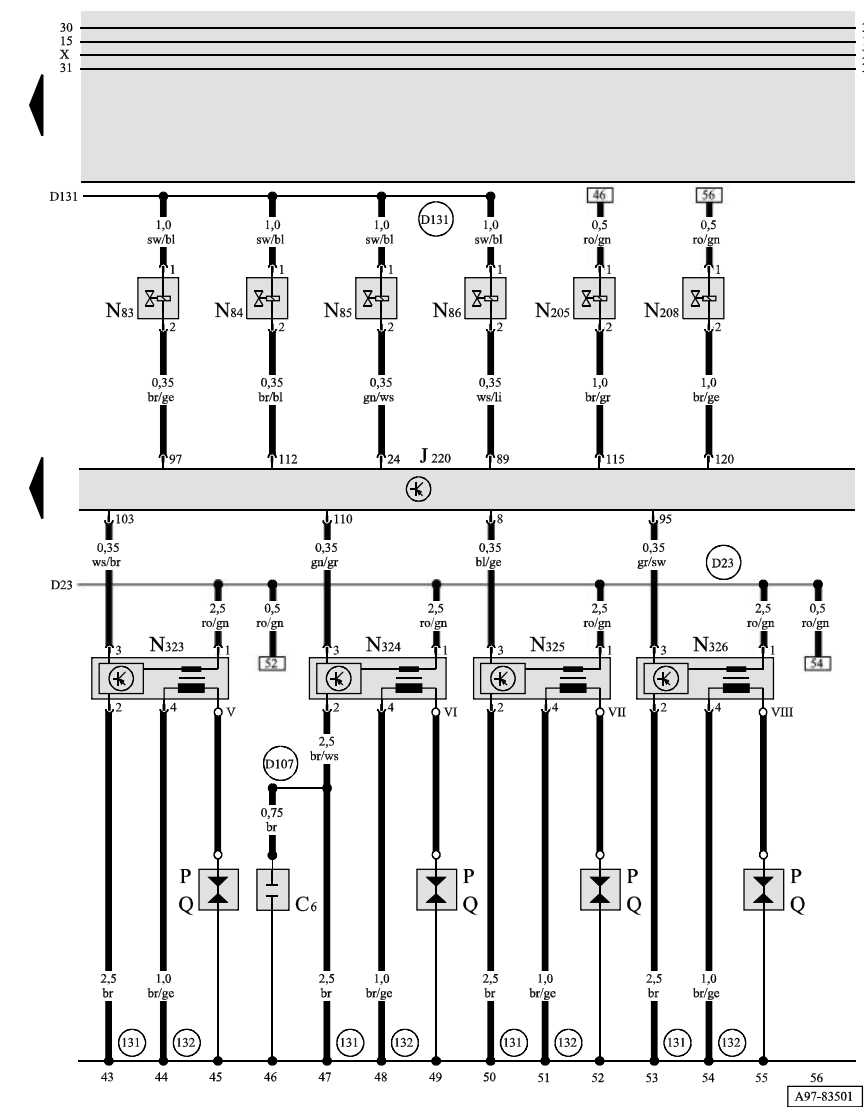
Motronic control unit, injectors and ignition coils for cylinders 1

- 4
- C6 - Coil condenser
 - J220 - Motronic control unit
 - N30 - Injector, cylinder 1
 - N31 - Injector, cylinder 2
 - N32 - Injector, cylinder 3
 - N33 - Injector, cylinder 4
 - 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
 - S229 - Fuse 29 in fuse box
 - T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
 - T17i - 17-pin connector, white, connector point, electronics box, plenum chamber
 - 85 - Earth connection -1-, in engine compartment wiring harness
 - 132 - Earth connection -3-, in engine compartment wiring harness
 - D23 - Connection (via fuse 229), in front right wiring harness
 - D106 - Connection -4-, in engine compartment wiring harness
 - D131 - Connection (15) via fuse 232, in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 10 / 5



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

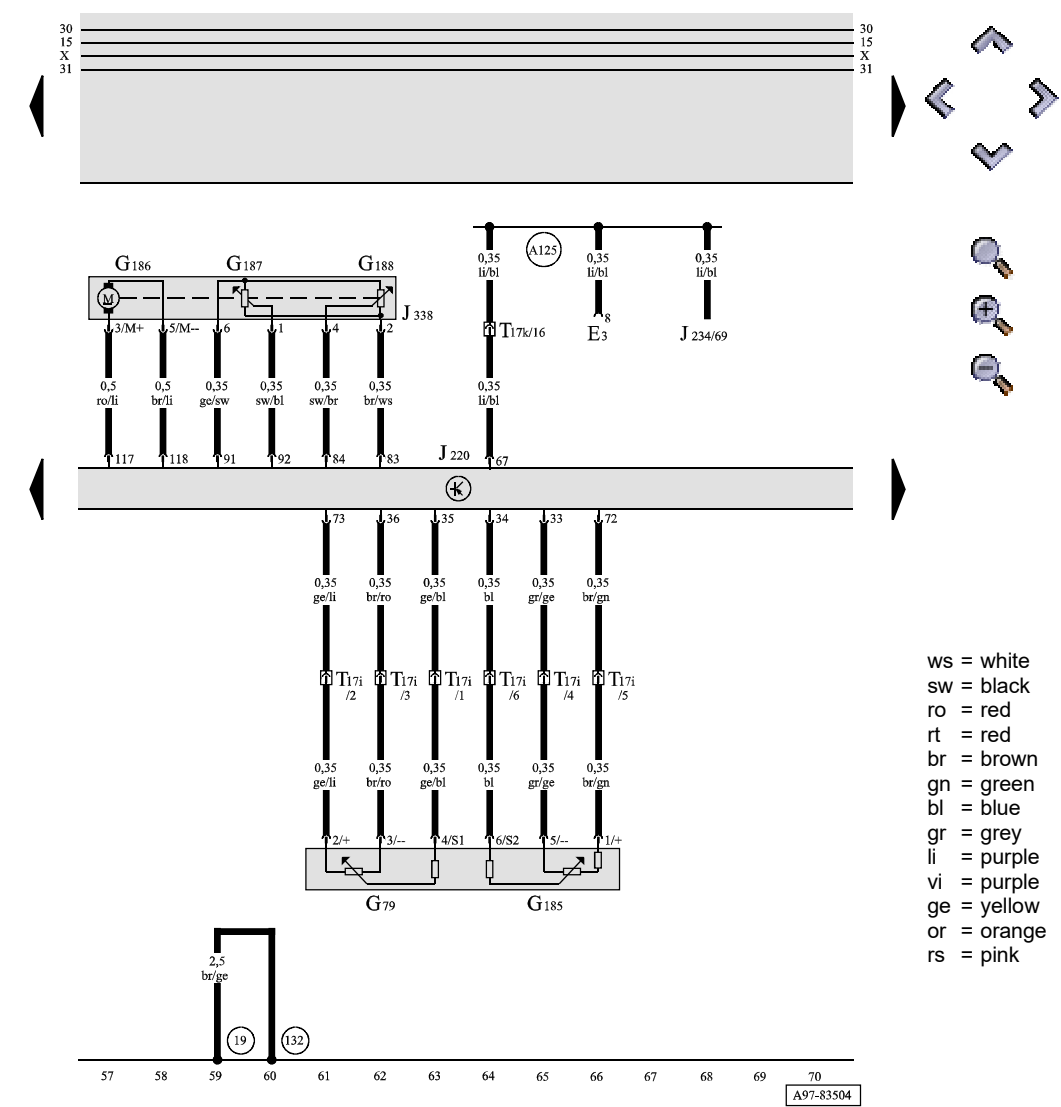
Motronic control unit, injectors and ignition coils for cylinders 5

- 8
- C6 - Coil condenser
 - J220 - Motronic control unit
 - N83 - Injector, cylinder 5
 - N84 - Injector, cylinder 6
 - N85 - Injector, cylinder 7
 - N86 - Injector, cylinder 8
 - N205 - Inlet camshaft timing adjustment valve -1-
 - N208 - Inlet camshaft timing adjustment valve -2-
 - N323 - Ignition coil 5 with final output stage
 - N324 - Ignition coil 6 with final output stage
 - N325 - Ignition coil 7 with final output stage
 - N326 - Ignition coil 8 with final output stage
 - P - Spark plug connector
 - Q - Spark plugs
 - 131 - Earth connection -2-, in engine compartment wiring harness
 - 132 - Earth connection -3-, in engine compartment wiring harness
 - D23 - Connection (via fuse 229), in front right wiring harness
 - D107 - Connection -5-, in engine compartment wiring harness
 - D131 - Connection (15) via fuse 232, in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 10 / 6



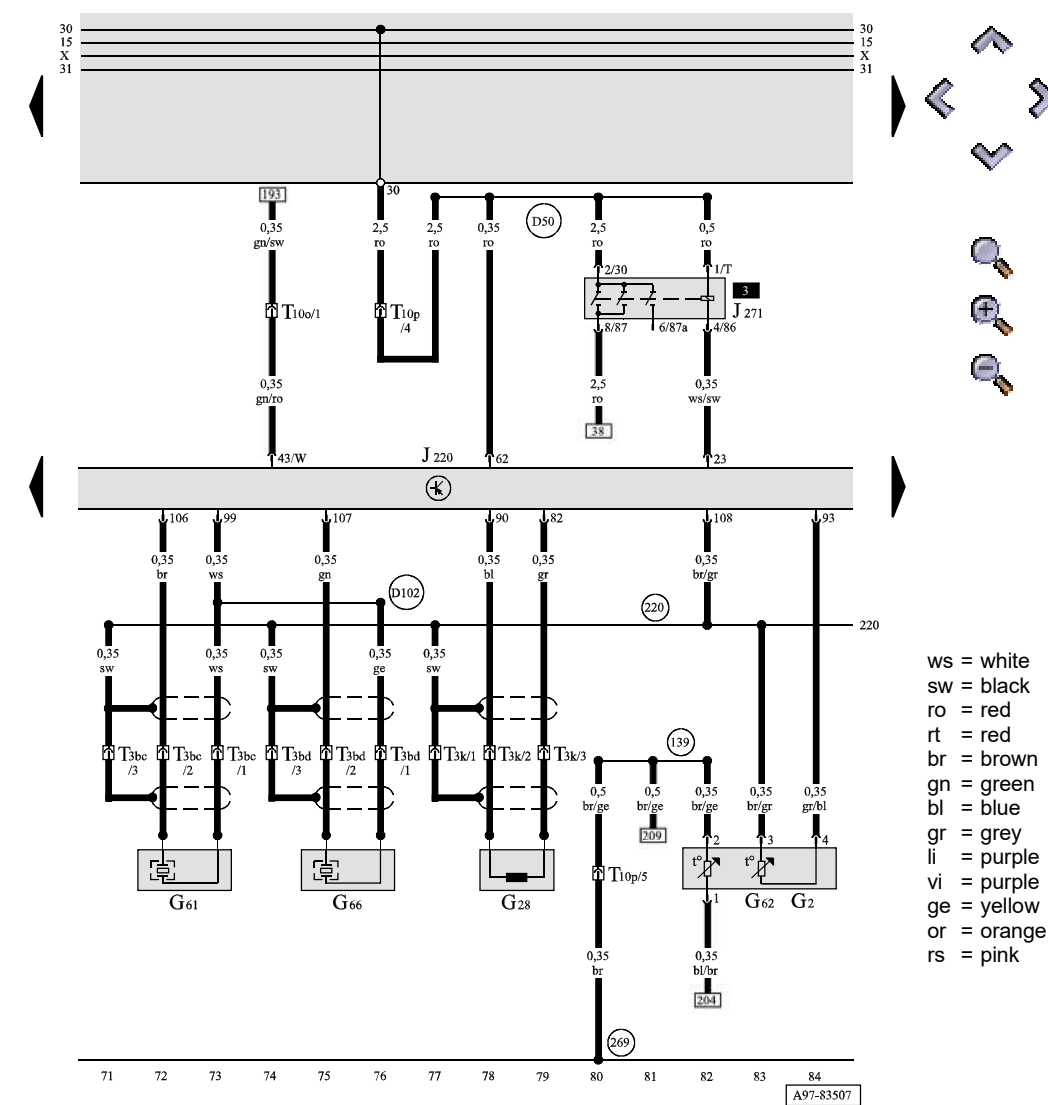
Motronic control unit, throttle valve control unit, accelerator pedal position senders

- E3 - Hazard warning light switch
- G79 - Accelerator pedal position sender
- G185 - Accelerator pedal position sender -2-
- G186 - Throttle valve drive (electric throttle operation)
- G187 - Throttle valve drive angle sender -1- (electric throttle operation)
- G188 - Throttle valve drive angle sender -2- (electric throttle operation)
- J220 - Motronic control unit
- J234 - Airbag control unit
- J338 - Throttle valve control unit
- T17i - 17-pin connector, white, connector point, electronics box, plenum chamber
- T17k - 17-pin connector, red, connector point, electronics box, plenum chamber
- 19 - Earth point, near ignition coil
- 132 - Earth connection -3-, in engine compartment wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness

Audi A6

Current Flow Diagram

No. 10 / 7



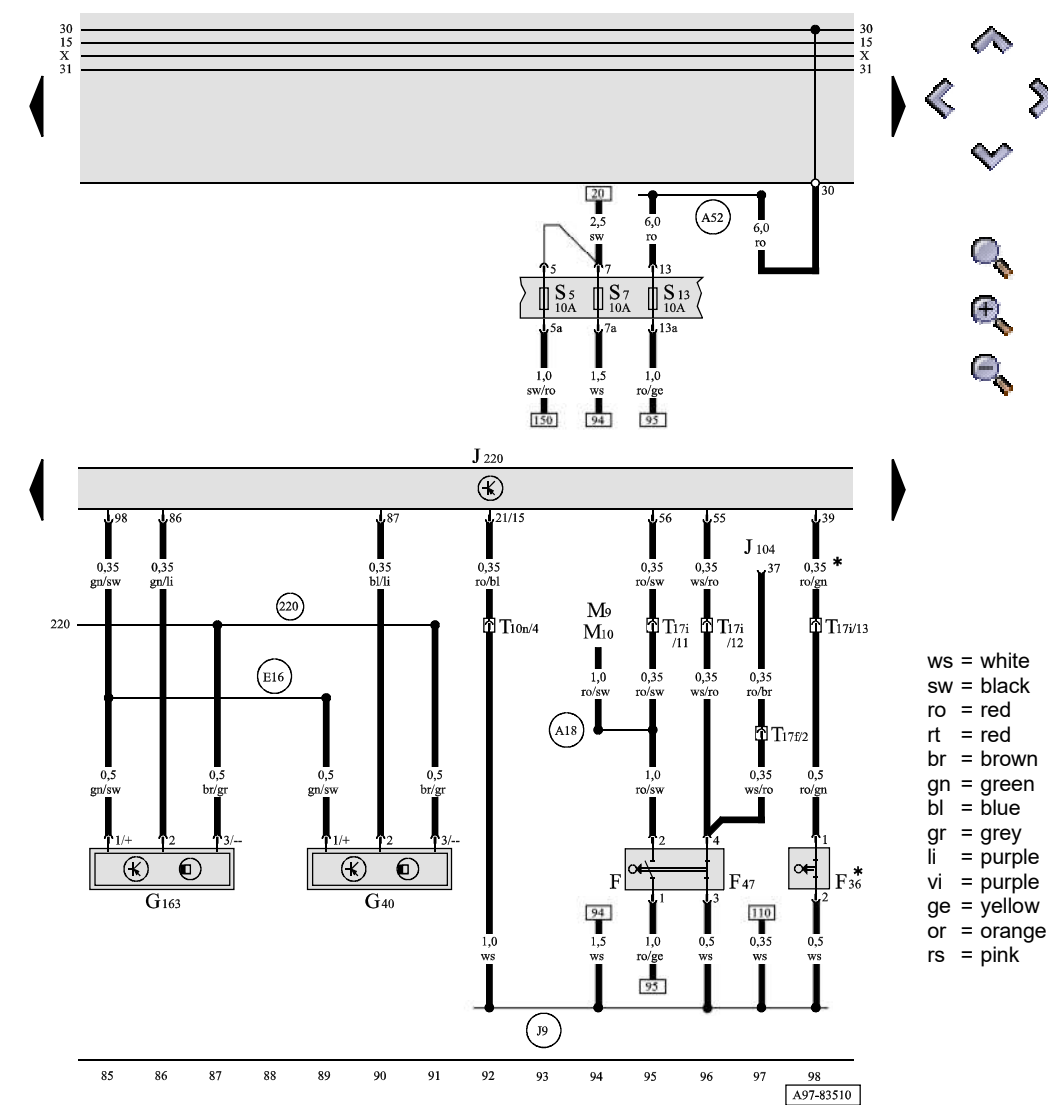
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

- Motronic control unit, knock sensor 1, engine speed sender, coolant temperature senders, Motronic current supply relay**
- G2 - Coolant temperature sender
 - G28 - Engine speed sender
 - G61 - Knock sensor 1
 - G62 - Coolant temperature sender
 - G66 - Knock sensor 2
 - J220 - Motronic control unit
 - J271 - Motronic current supply relay
 - T3k - 3-pin connector, grey, on engine speed sender
 - T3bc - 3-pin connector, green, at knock sensor 1
 - T3bd - 3-pin connector, green, at knock sensor 2
 - T10o - 10-pin connector, brown, connector point, electronics box, plenum chamber
 - T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
 - 139 - Earth connection (sender earth), in Motronic wiring harness
 - 220 - Earth connection (sender earth), in engine wiring harness
 - 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
 - D50 - Positive (+) connection (30), in engine compartment wiring harness
 - D102 - Connection -2-, in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 10 / 8



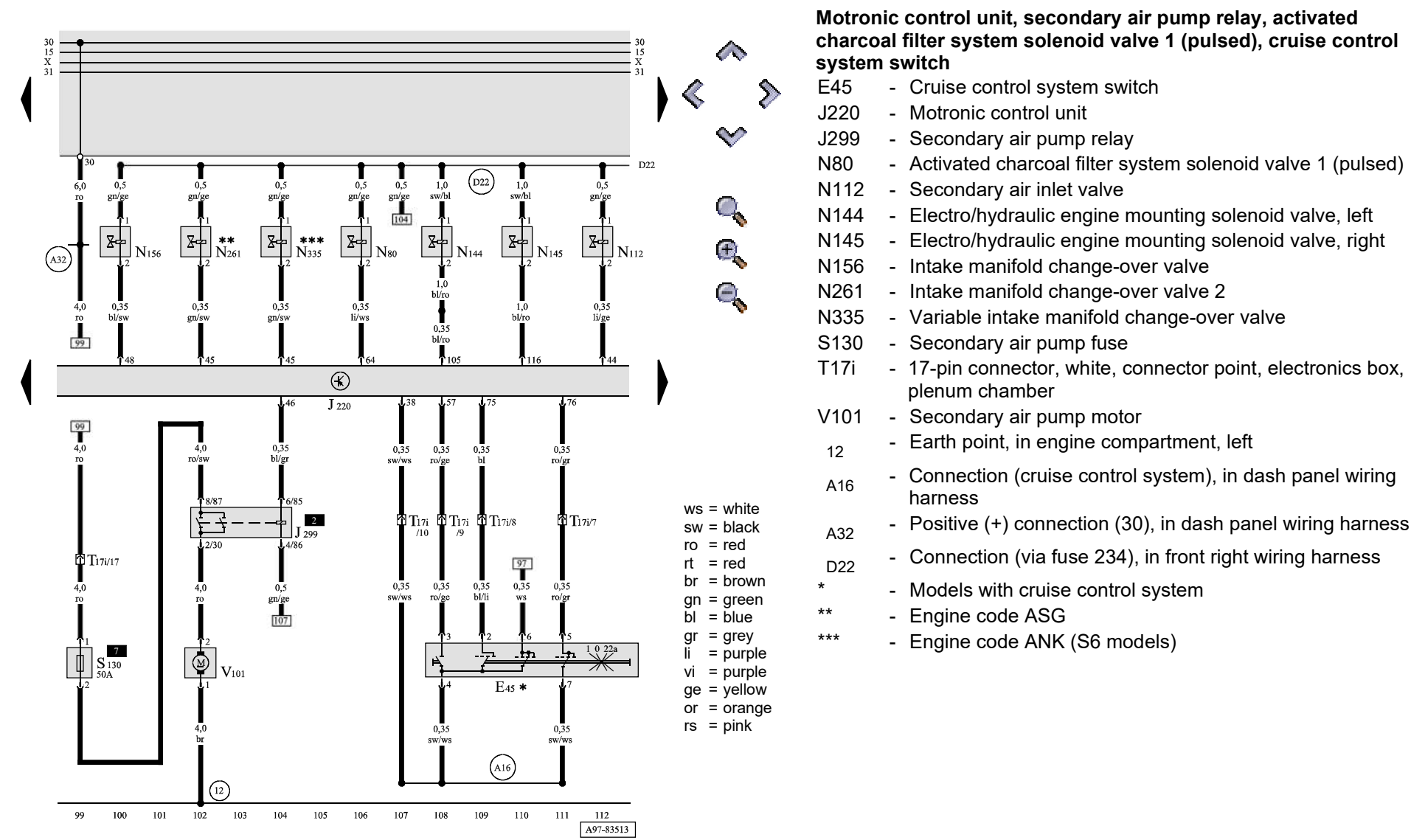
Motronic control unit, Hall senders, brake light switch

- F - Brake light switch
- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch
- G40 - Hall sender
- G163 - Hall sender 2
- J104 - ABS with EDL control unit
- J220 - Motronic control unit
- M9 - Brake light bulb, left
- M10 - Brake light bulb, right
- S5 - Fuse in fuse box
- S7 - Fuse in fuse box
- S13 - Fuse in fuse box
- T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
- T17f - 17-pin connector, black, in 8-point relay carrier, behind driver's storage compartment
- T17i - 17-pin connector, white, connector point, electronics box, plenum chamber
- 220 - Earth connection (sender earth), in engine wiring harness
- A18 - Connection (54), in dash panel wiring harness
- A52 - Positive (+) connection 2 (30), in dash panel wiring harness
- E16 - Positive (+) connection (5 volts), in Motronic wiring harness
- J9 - Connection -1- (15a), in ABS wiring harness
- * - Models with manual gearbox

Audi A6

Current Flow Diagram

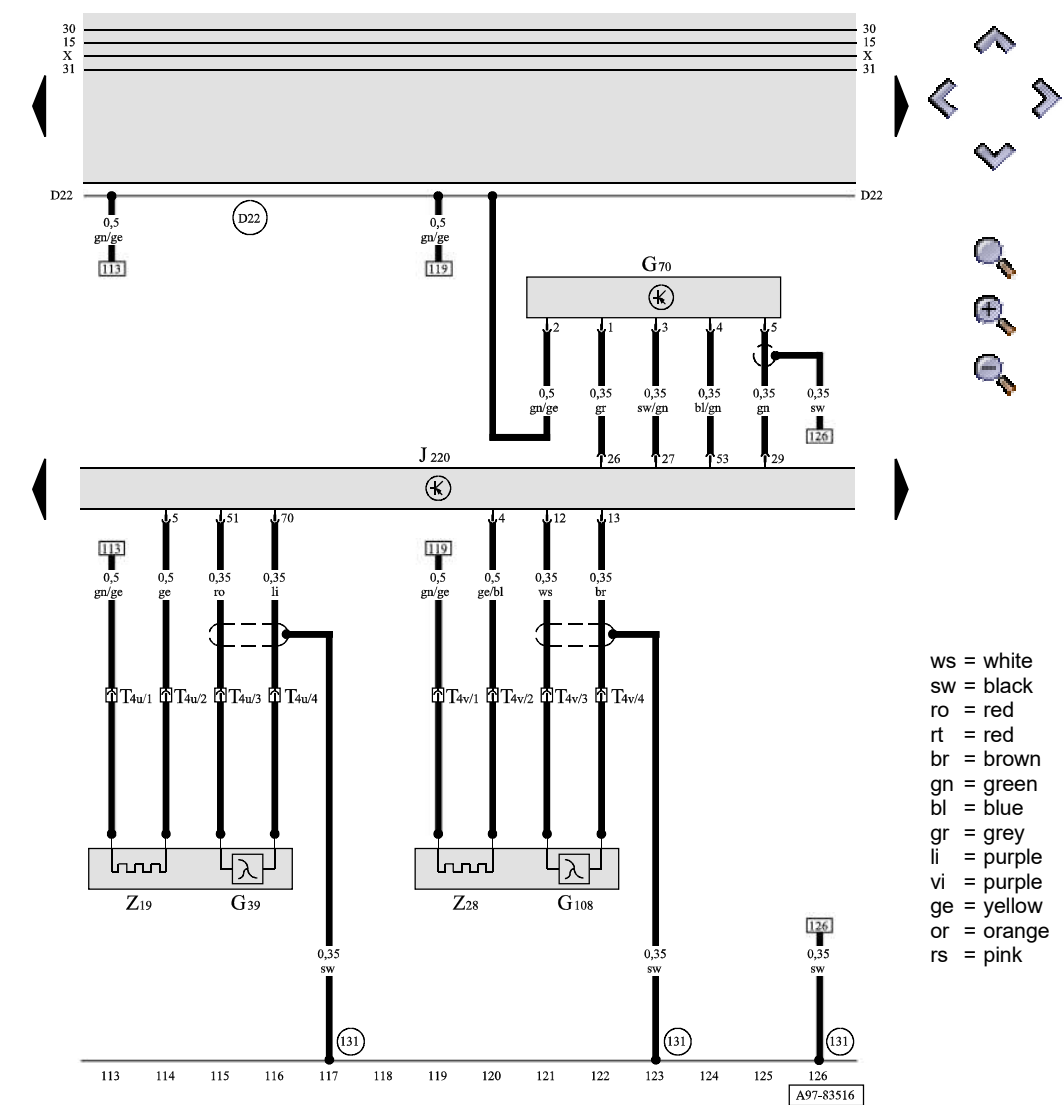
No. 10 / 9



Audi A6

Current Flow Diagram

No. 10 / 10



Motronic control unit, lambda probes, air mass meter

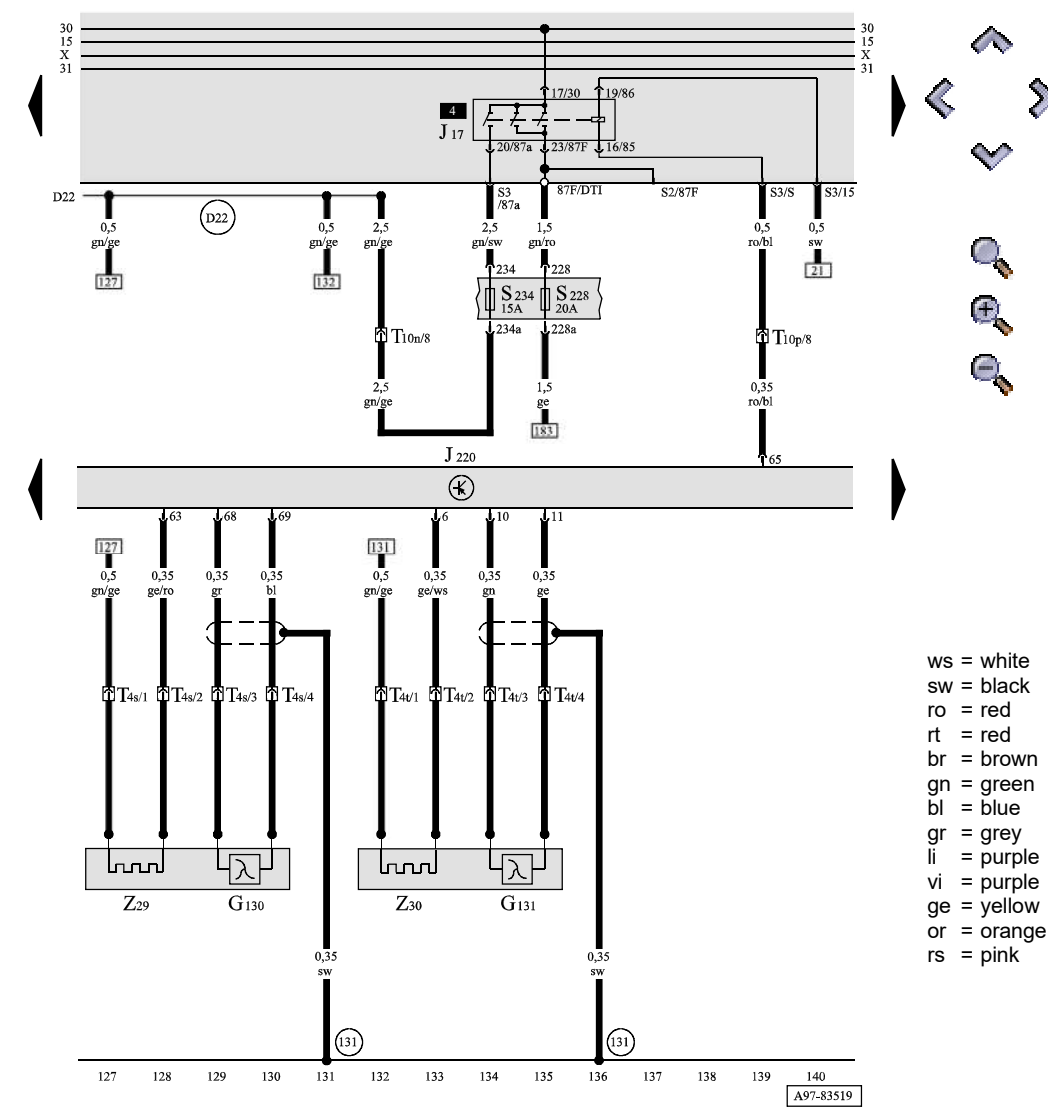
- G39 - Lambda probe
- G70 - Air mass meter
- G108 - Lambda probe 2
- J220 - Motronic control unit
- T4u - 4-pin connector, black, for lambda probe 1
- T4v - 4-pin connector, black, for lambda probe 2
- Z19 - Lambda probe heater
- Z28 - Lambda probe 2 heater
- 131 - Earth connection -2-, in engine compartment wiring harness
- D22 - Connection (via fuse 234), in front right wiring harness

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 A6

Current Flow Diagram

No. 10 / 11



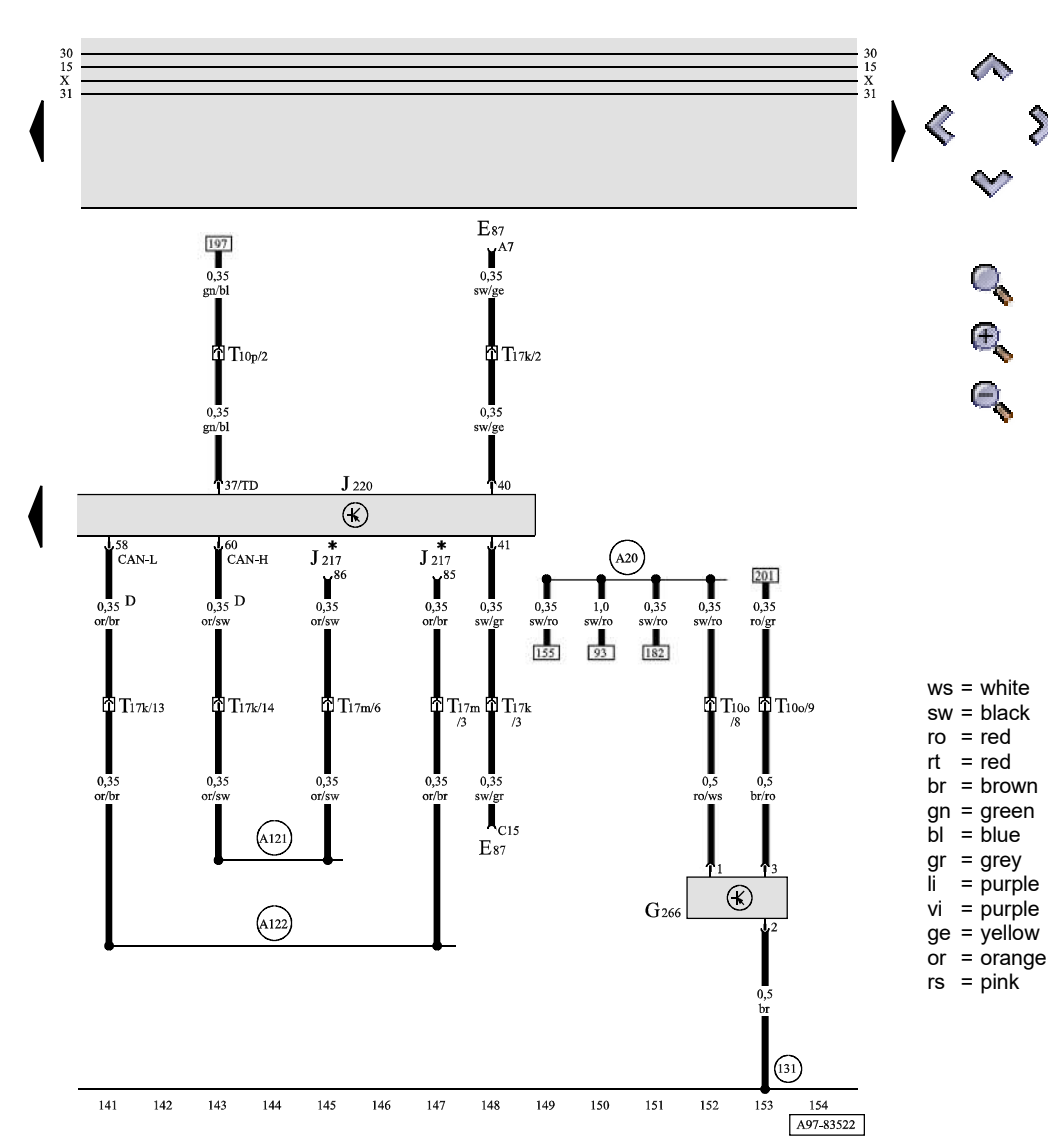
Motronic control unit, fuel pump relay, lambda probes
downstream of catalytic converter

- G130 - Lambda probe downstream of catalytic converter
- G131 - Lambda probe 2 downstream of catalytic converter
- J17 - Fuel pump relay
- J220 - Motronic control unit
- S228 - Fuse 28 in fuse box
- S234 - Fuse 34 in fuse box
- T4s - 4-pin connector, green, for lambda probe 1 downstream of catalytic converter
- T4t - 4-pin connector, brown, for lambda probe 2 downstream of catalytic converter
- T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- Z29 - Lambda probe 1 heater, downstream of catalytic converter
- Z30 - Lambda probe 2 heater, downstream of catalytic converter
- 131 - Earth connection -2-, in engine compartment wiring harness
- D22 - Connection (via fuse 234), in front right wiring harness

Audi A6

Current Flow Diagram

No. 10 / 12



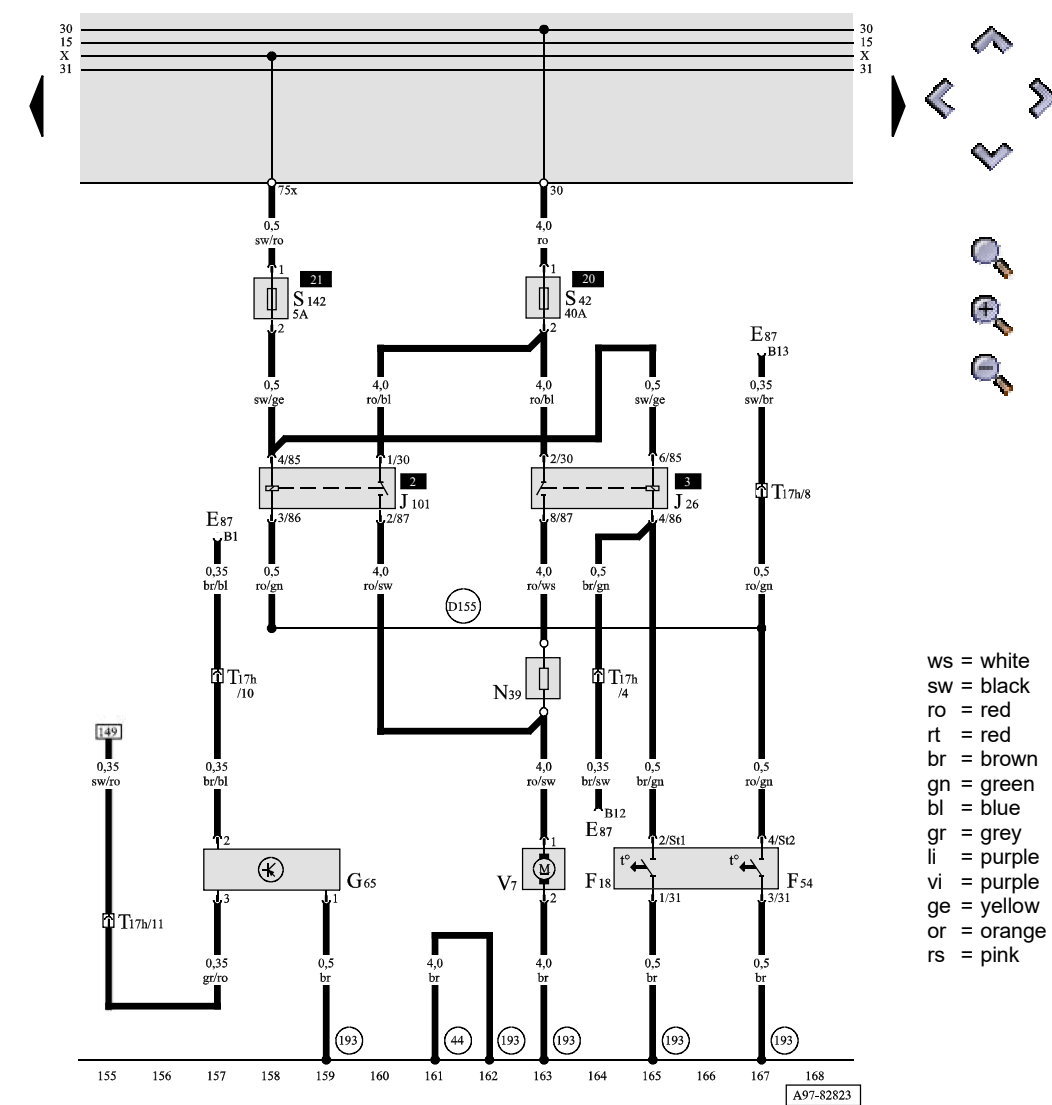
Motronic control unit, CAN bus, oil level thermo sender (service interval)

- E87 - Control and display unit for air conditioner
- G266 - Oil level thermo sender, service interval
- J217 - Automatic gearbox control unit
- J220 - Motronic control unit
- T10o - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- T17k - 17-pin connector, red, connector point, electronics box, plenum chamber
- T17m - 17-pin connector, blue, connector point, A pillar, right
- 131 - Earth connection -2-, in engine compartment wiring harness
- A20 - Connection (15a), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- - CAN bus (data wire)
- * - Models with automatic gearbox

Audi A6

Current Flow Diagram

No. 10 / 13



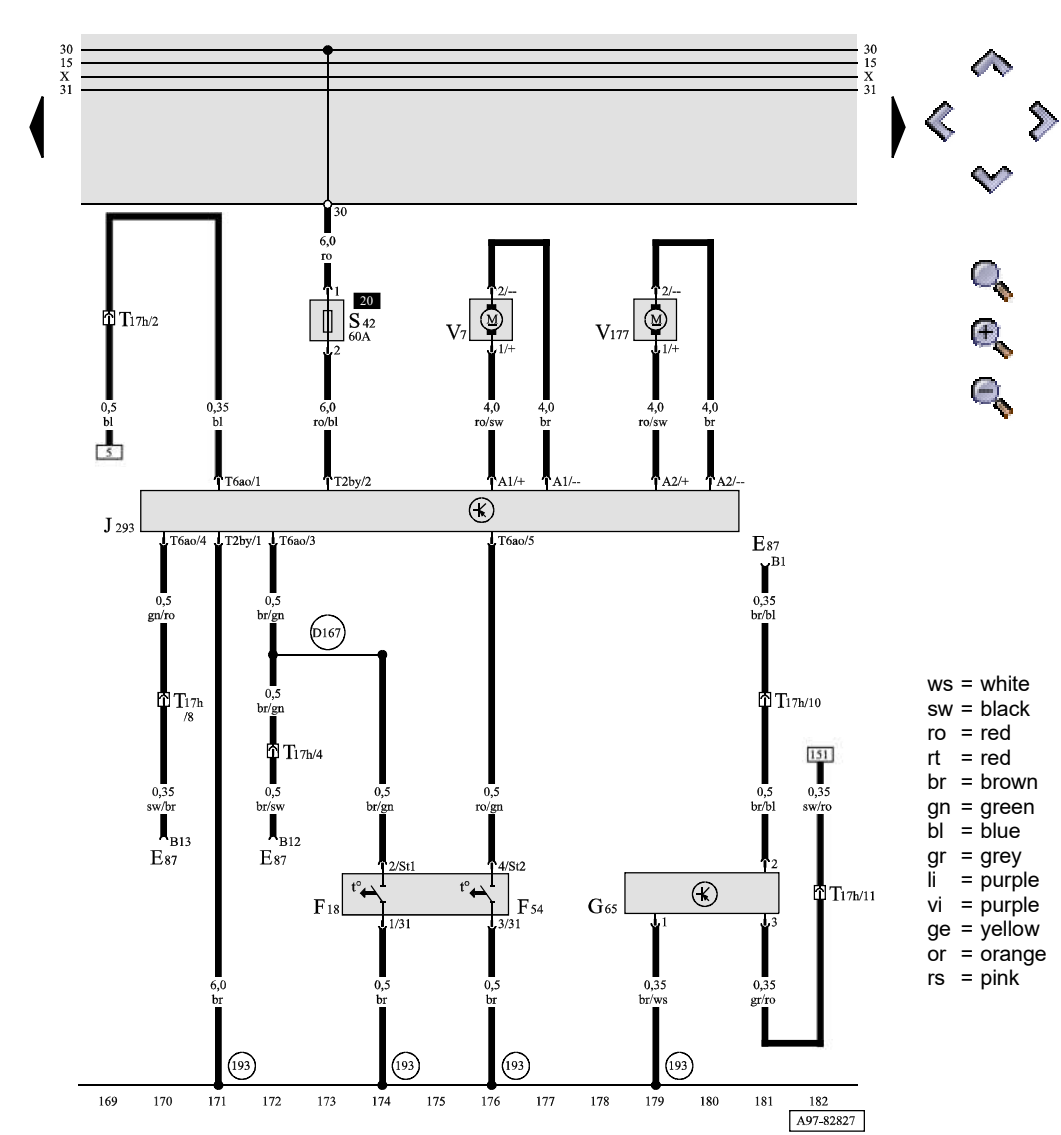
Engine cooling with radiator fan relay

- E87 - Control and display unit for air conditioner
- F18 - Radiator fan thermo-switch
- F54 - Radiator fan thermo-switch
- G65 - High pressure sender
- J26 - Radiator fan relay
- J101 - Radiator fan 2nd speed relay
- N39 - Radiator fan series resistor
- S42 - Radiator fan single fuse
- S142 - Radiator fan control unit fuse
- T17h - 17-pin connector, brown, connector point, A pillar, left
- V7 - Radiator fan
- 44 - Earth point, lower part of left A-pillar
- 193 - Earth connection -1-, in radiator fan wiring harness
- D155 - Connection -1- (air conditioner pressure switch), in engine compartment wiring harness

Audi A6

Current Flow Diagram

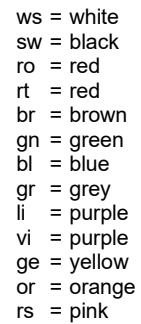
No. 10 / 14



- Engine cooling with radiator fan control unit**
- E87 - Control and display unit for air conditioner
 - F18 - Radiator fan thermo-switch
 - F54 - Radiator fan thermo-switch
 - G65 - High pressure sender
 - J293 - Radiator fan control unit, in engine compartment, front left
 - S42 - Radiator fan single fuse
 - T2by - 2-pin connector, on radiator fan control unit
 - T6ao - 6-pin connector, on radiator fan control unit
 - T17h - 17-pin connector, brown, connector point, A pillar, left
 - V7 - Radiator fan
 - V177 - Radiator fan -2-
 - 193 - Earth connection -1-, in radiator fan wiring harness
 - D167 - Connection (radiator fan stage I), in engine compartment wiring harness

Current Flow Diagram

No. 10 / 15

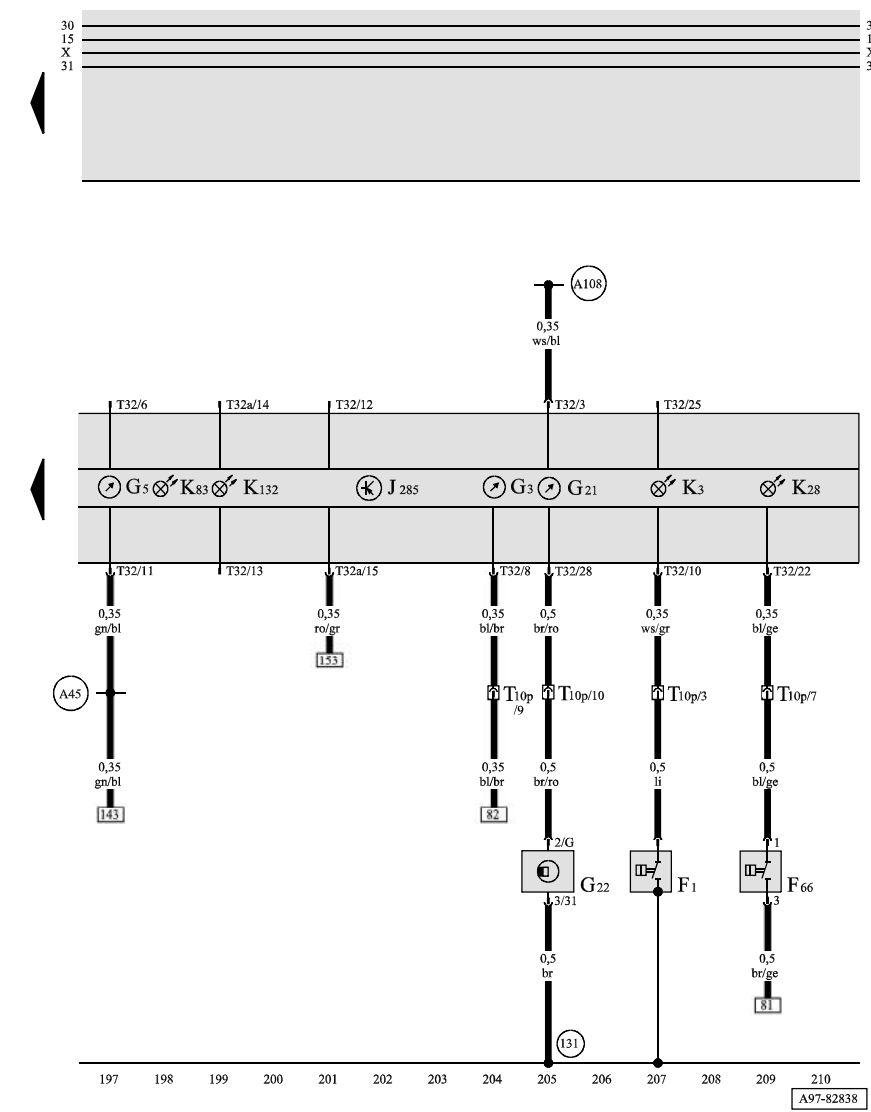


- G - Fuel gauge sender
- G1 - Fuel gauge
- G6 - Fuel pump (pre-supply pump)
- G169 - Fuel gauge sender 2
- G237 - Fuel gauge sender 3
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- T10f - 10-pin connector, brown, connector point, A pillar, left
- T10ba - 10-pin connector, blue, connector point, A pillar, left
- T16a - 16-pin connector, diagnosis connection
- T32 - 32-pin connector, blue, on dash panel insert
- T32a - 32-pin connector, green, on dash panel insert
- 86 - Earth connection -1-, in rear wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- * - Models with front-wheel drive
- ** - Models with four-wheel drive
- *** - Wiring in fuel tank
- # - Sender earth output

Audi A6

Current Flow Diagram

No. 10 / 16



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

Dash panel insert

- F1 - Oil pressure switch
- F66 - Coolant shortage indicator switch
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G21 - Speedometer
- G22 - Speedometer sender (Hall sender, on gearbox)
- J285 - Control unit with display in dash panel insert
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K83 - Fault warning lamp for self-diagnosis/exhaust emissions
- K132 - Electronic power control fault lamp
- T10p - 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
- 131 - Earth connection -2-, in engine compartment wiring harness
- A45 - Connection (engine speed signal), in dash panel wiring harness
- A108 - Connection (speed signal), in dash panel wiring harness