

Audi A6

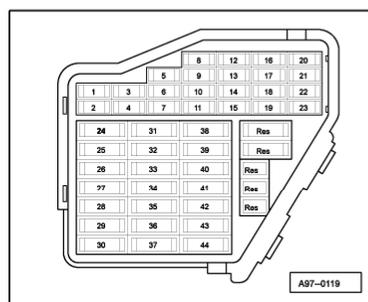
Current Flow Diagram

No. 11/1

2.7 litre fuel injection engine (184 kW - bi-turbo engine), engine code ARE

From model year 2002

Fuse box

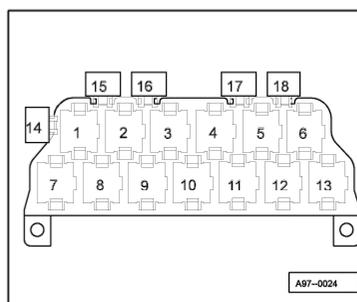


Fuse colours:

- 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.

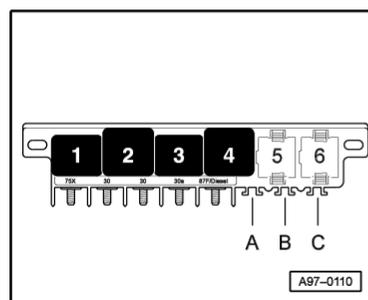
13-point relay carrier



Position of relays:

- 4** - Starter inhibitor relay (J207)

Micro-central electrics



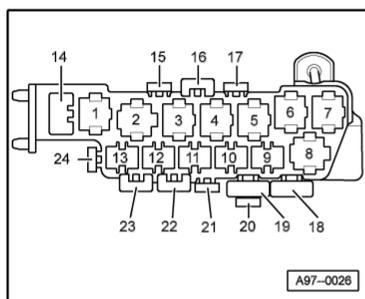
Position of relays:

- 4** - Fuel pump relay (J17)

Audi A6

Current Flow Diagram

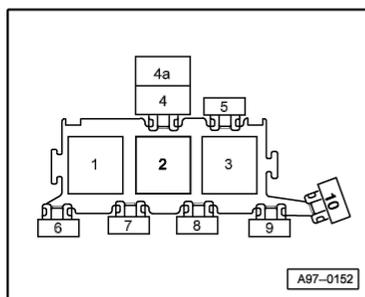
No. 11/2



3-point relay carrier in electronics box,

Position of fuses:

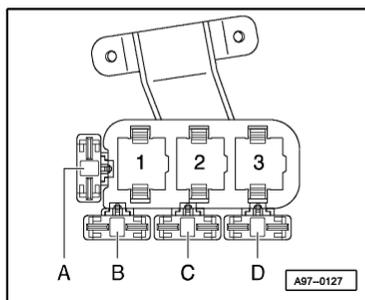
- 20** - Radiator fan fuse (S42)



Relay carrier, driver's side, behind dash panel

Position of relays:

- 2** - Secondary air pump relay (J299)
- 7** - Secondary air pump fuse (S130)



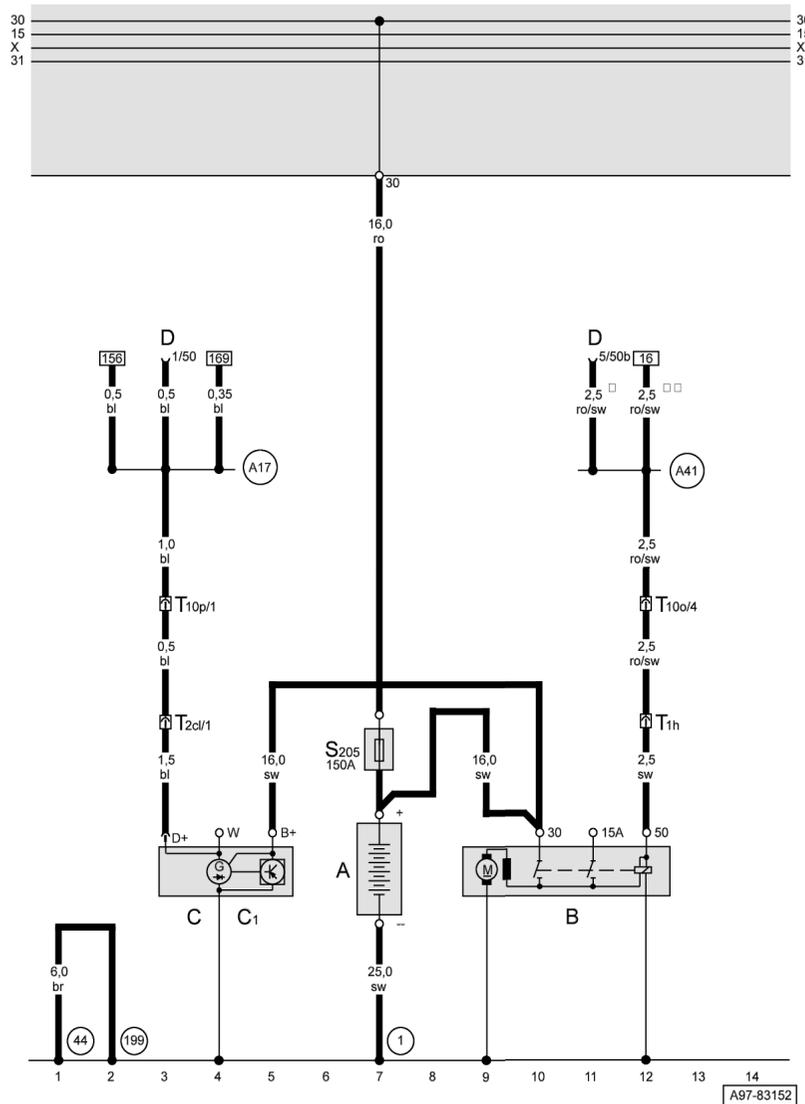
Position of relays:

- 1** - Brake servo relay (J569)
- C** - Fuse for hydraulic pump relay (S279)

Audi A6

Current Flow Diagram

No. 11 / 2



Battery, starter, alternator, ignition/starter switch

- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- S205 - Fuse -2- (30)
- T1h - Single connector, black, in engine compartment, right
- T2cl - 2-pin connector, black, on alternator
- 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
- 44 - Earth point, lower part of left A pillar
- 199 - Earth connection -3-, 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

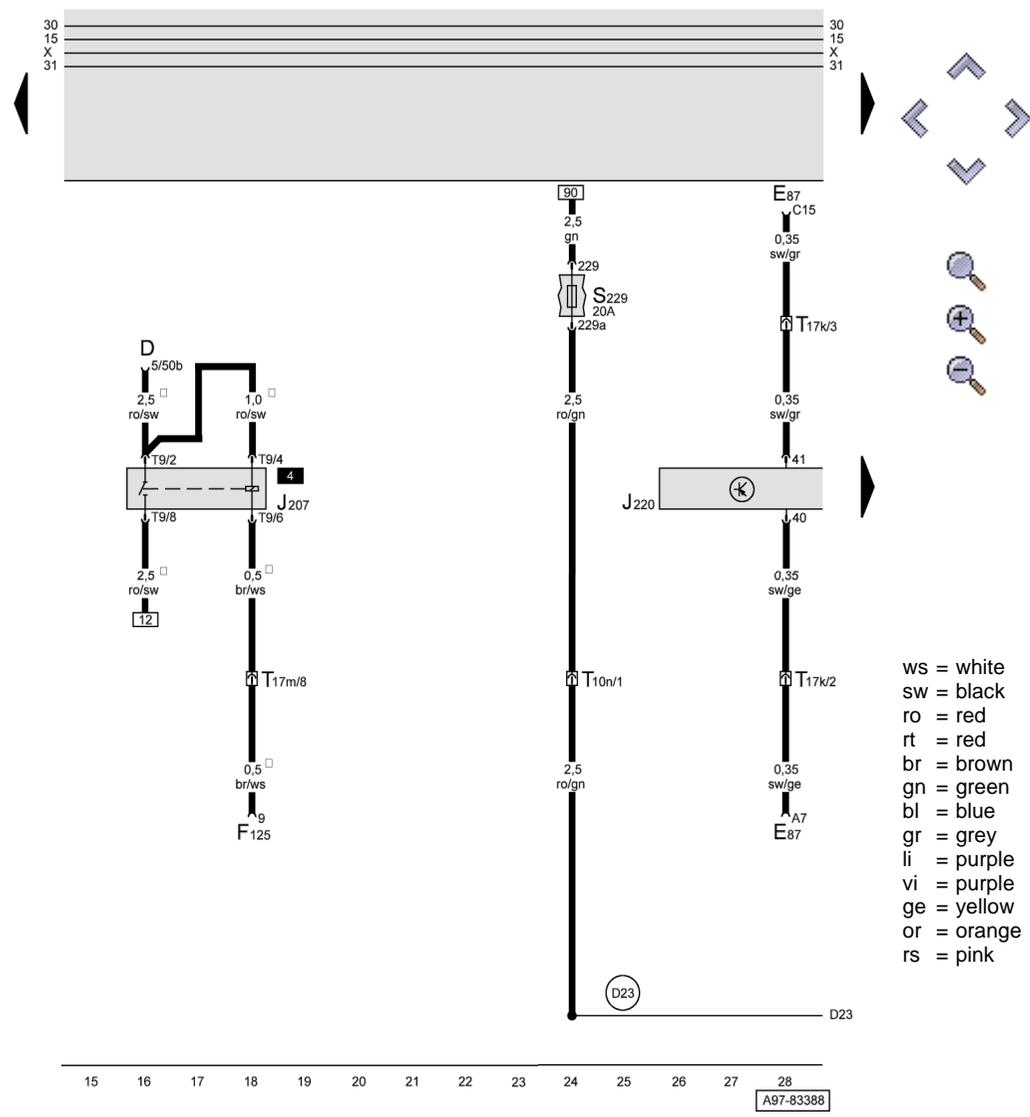
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 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

A97-83152

Audi A6

Current Flow Diagram

No. 11 / 3



Motronic control unit, starter inhibitor relay

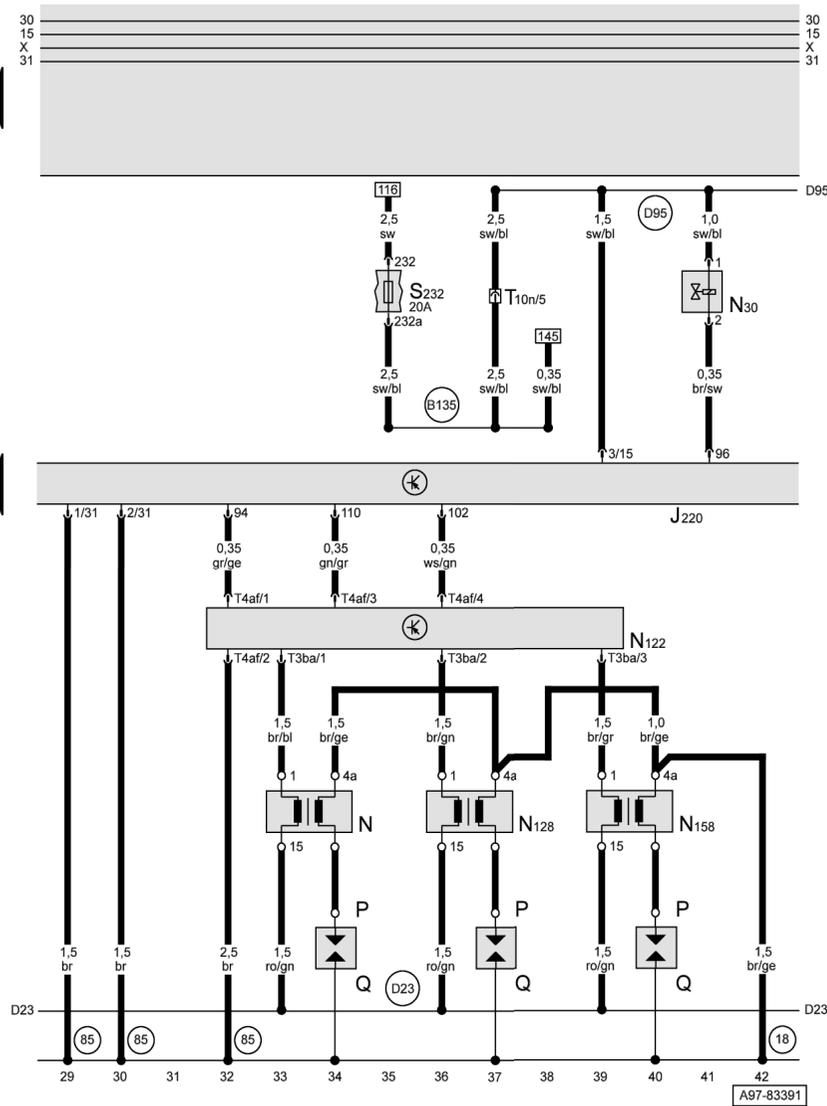
- D - Ignition/starter switch
- E87 - Control and display unit for air conditioner
- F125 - Multi-function switch
- J207 - Starter inhibitor relay
- J220 - Motronic control unit
- S229 - Fuse 29 in fuse box
- T9 - 9-pin connector, brown, at starter inhibitor relay
- T10n - 10-pin connector, orange, connector 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
- D23 - Connection (via fuse 229), in front right wiring harness
- * - Models with automatic gearbox

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 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
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Audi A6

Current Flow Diagram

No. 11 / 4



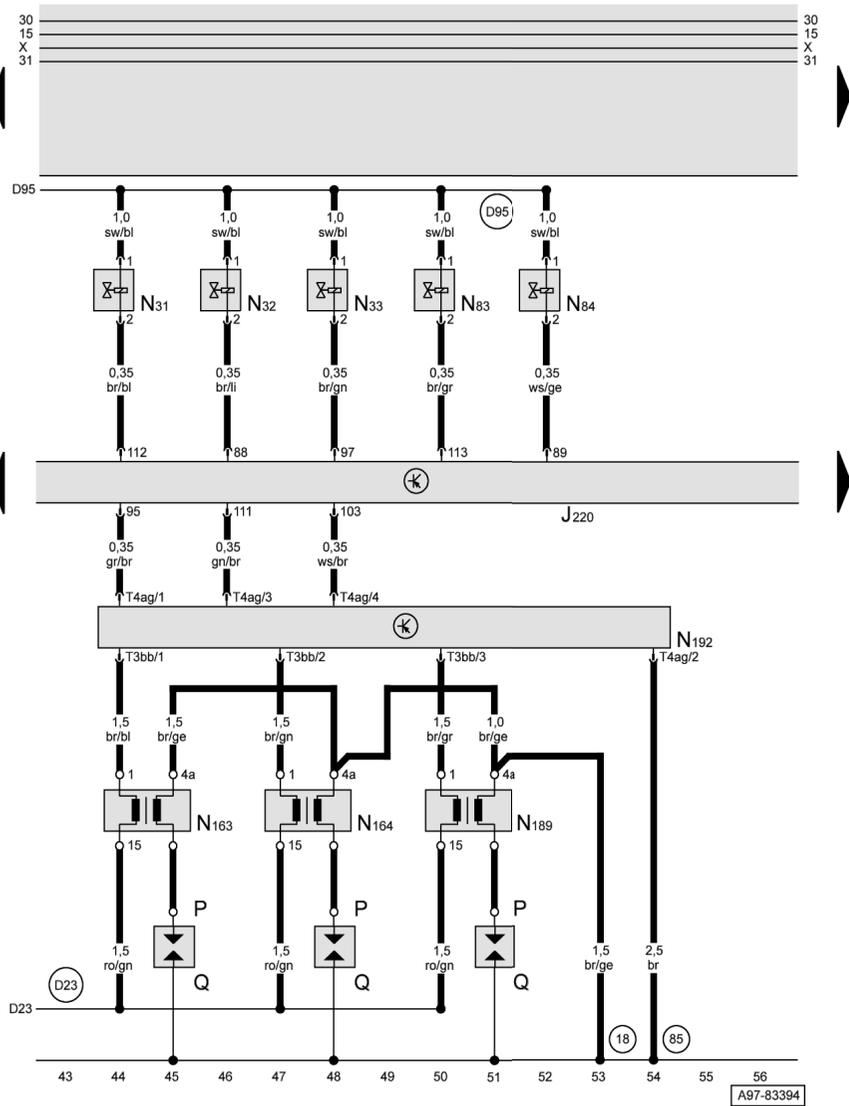
Motronic control unit, output stage 1, ignition coils

- J220 - Motronic control unit
- N - Ignition coil
- N30 - Injector, cylinder 1
- N122 - Final output stage
- N128 - Ignition coil 2
- N158 - Ignition coil 3
- P - Spark plug connector
- Q - Spark plugs
- S232 - Fuse 32 in fuse box
- T3ba - 3-pin connector, black, on output stage 1
- T4af - 4-pin connector, black, on output stage 1
- T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
- 18 - Earth point, on cylinder block
- 85 - Earth connection -1-, in engine compartment wiring harness
- B135 - Connection (15a), in interior wiring harness
- D23 - Connection (via fuse 229), in front right wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 11 / 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

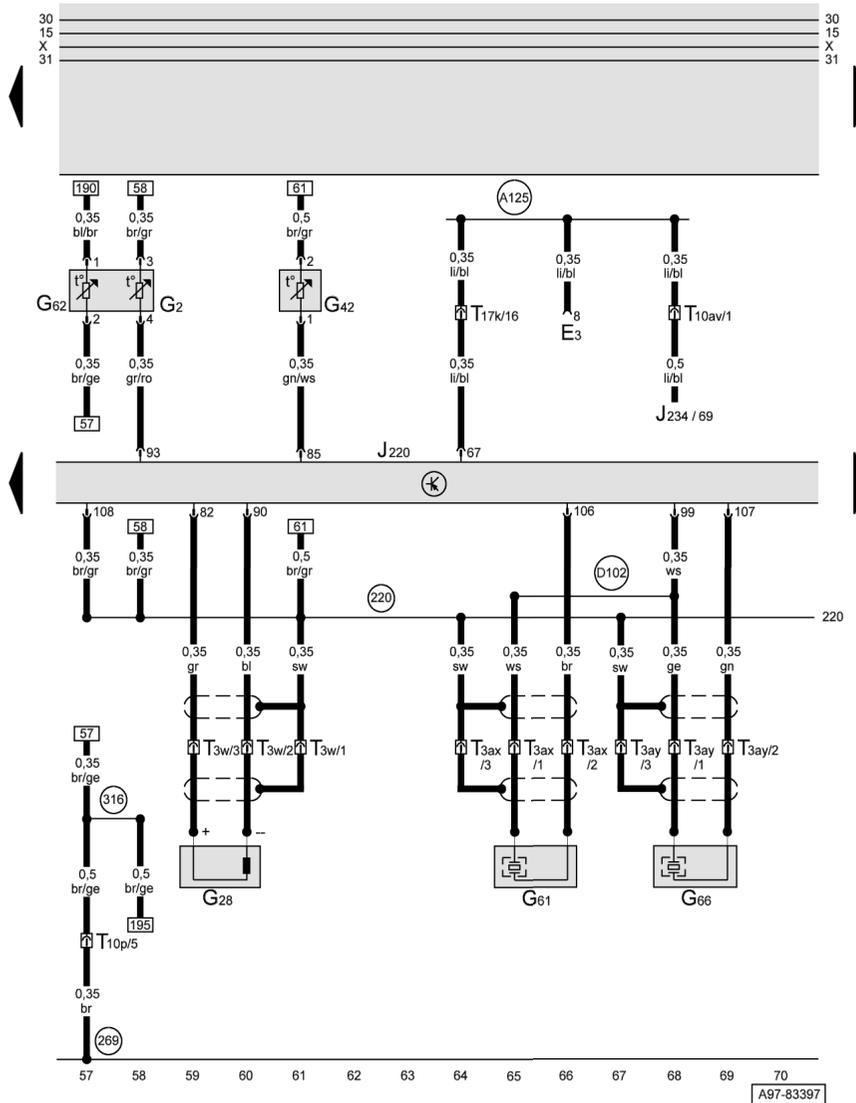
Motronic control unit, output stage 2, ignition coils

- J220 - Motronic control unit
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- N83 - Injector, cylinder 5
- N84 - Injector, cylinder 6
- N163 - Ignition coil 4
- N164 - Ignition coil 5
- N189 - Ignition coil 6
- N192 - Final output stage 2
- P - Spark plug connector
- Q - Spark plugs
- T3bb - 3-pin connector, brown, on output stage 2
- T4ag - 4-pin connector, brown, on output stage 2
- 18 - Earth point, on cylinder block
- 85 - Earth connection -1-, in engine compartment wiring harness
- D23 - Connection (via fuse 229), in front right wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 11 / 6



Motronic control unit, knock sensor 1, coolant temperature senders

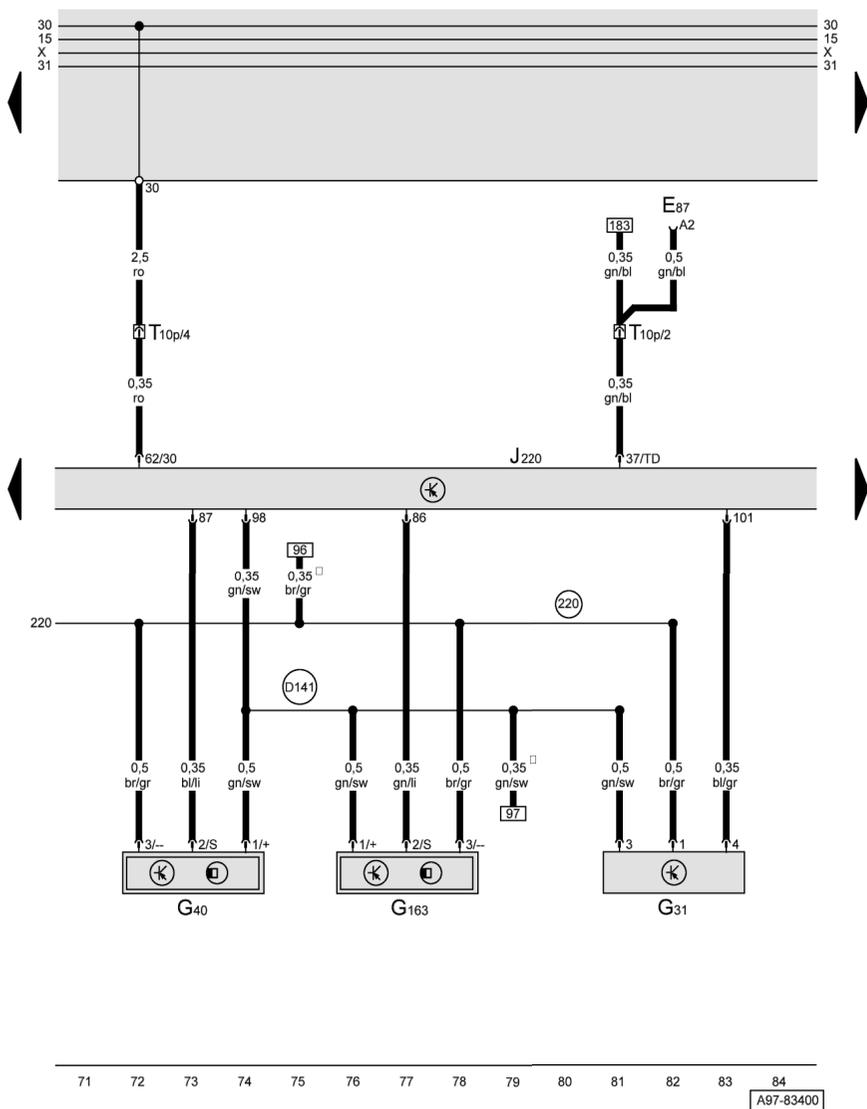
- E3 - Hazard warning light switch
- G2 - Coolant temperature sender
- G28 - Engine speed sender
- G42 - Intake air temperature sender
- G61 - Knock sensor 1
- G62 - Coolant temperature sender
- G66 - Knock sensor 2
- J220 - Motronic control unit
- J234 - Airbag control unit
- T3w - 3-pin connector, grey, on engine speed sender
- T3ax - 3-pin connector, brown, at knock sensor 1
- T3ay - 3-pin connector, brown, at knock sensor 2
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- T10av - 10-pin connector, yellow, connector point, A pillar, right
- T17k - 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
- 316 - Earth connection (sender earth -2-), in engine wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- D102 - Connection -2-, in engine compartment wiring harness

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

Audi A6

Current Flow Diagram

No. 11 / 7



Motronic control unit, Hall senders

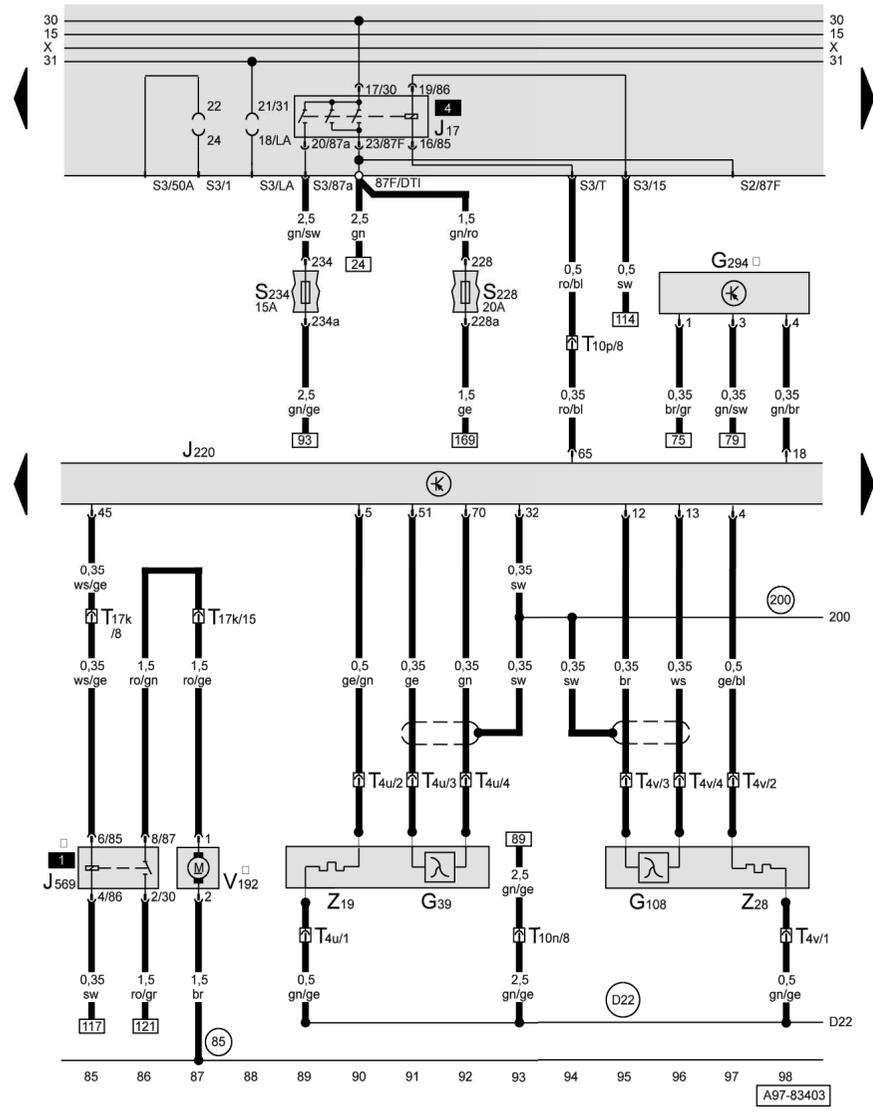
- E87 - Control and display unit for air conditioner
- G31 - Charge air pressure sender
- G40 - Hall sender
- G163 - Hall sender 2
- J220 - Motronic control unit
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- 220 - Earth connection (sender earth), in engine wiring harness
- D141 - Connection (5V), in engine compartment wiring harness
- * - Only models with automatic gearbox



Audi A6

Current Flow Diagram

No. 11 / 8



Motronic control unit, fuel pump relay, lambda probes, brake servo relay, vacuum pump for brakes

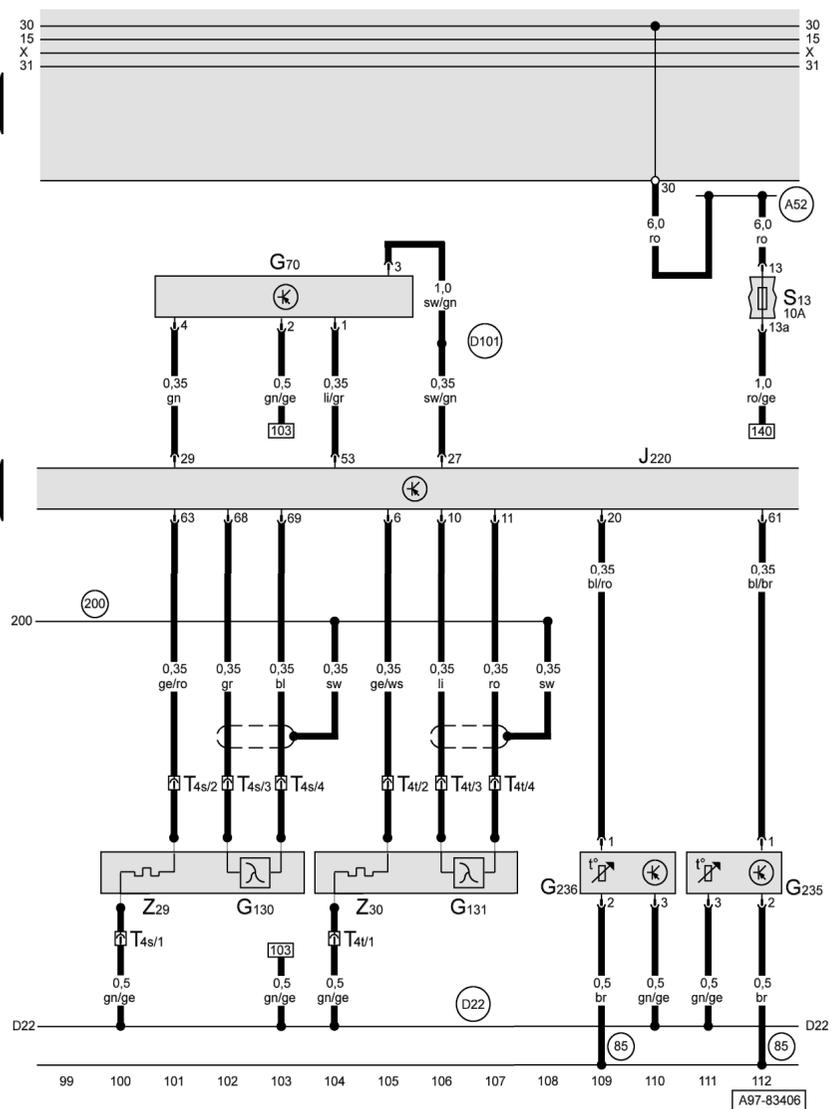
- G39 - Lambda probe
- G108 - Lambda probe 2
- G294 - Brake servo pressure sensor
- J17 - Fuel pump relay
- J220 - Motronic control unit
- J569 - Brake servo relay
- S228 - Fuse 28 in fuse box
- S234 - Fuse 34 in fuse box
- T4u - 4-pin connector, black, for lambda probe
- T4v - 4-pin connector, black, for lambda probe 2
- T10n - 10-pin connector, orange, 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
- V192 - Vacuum pump for brakes
- Z19 - Lambda probe heater
- Z28 - Lambda probe 2 heater
- 85 - Earth connection -1-, in engine compartment wiring harness
- 200 - Earth connection (screening), in engine compartment wiring harness
- D22 - Connection (via fuse 234), in front right wiring harness
- * - Only models with automatic gearbox

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 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. 11 / 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

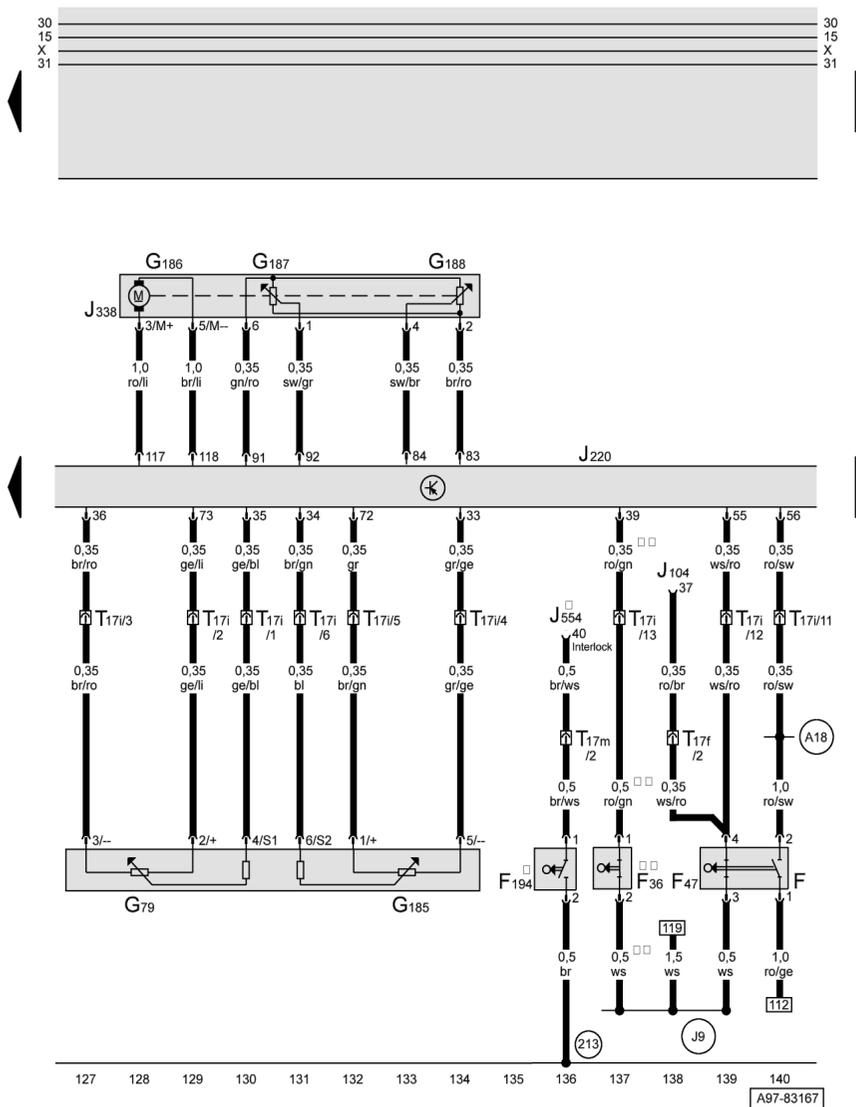
Motronic control unit, air mass meter

- G70 - Air mass meter
- G130 - Lambda probe downstream of catalytic converter
- G131 - Lambda probe 2 downstream of catalytic converter
- G235 - Exhaust gas temperature sender 1
- G236 - Exhaust gas temperature sender 2
- J220 - Motronic control unit
- S13 - Fuse 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
- Z29 - Lambda probe 1 heater, downstream of catalytic converter
- Z30 - Lambda probe 2 heater, downstream of catalytic converter
- 85 - Earth connection -1-, in engine compartment wiring harness
- 200 - Earth connection (screening), in engine compartment wiring harness
- A52 - Positive (+) connection 2 (30), in dash panel wiring harness
- D22 - Connection (via fuse 234), in front right wiring harness
- D101 - Connection -1-, in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 11 / 11



Motronic control unit, brake light switch, throttle valve control unit, cruise control system brake pedal switch, clutch pedal switch

- F - Brake light switch
- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch
- F194 - Clutch pedal switch
- G79 - Accelerator pedal position sender
- G185 - Accelerator pedal position sender -2-
- G186 - Throttle valve drive (electric power control)
- G187 - Throttle valve drive angle sender -1- (electric power control)
- G188 - Throttle valve drive angle sender -2- (electric power control)
- J104 - ABS with EDL control unit
- J220 - Motronic control unit
- J338 - Throttle valve control unit
- J554 - Low range gearing control unit
- 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
- T17m - 17-pin connector, blue, connector point, A pillar, right
- 213 - Earth connection -4-, in dash panel wiring harness
- A18 - Connection (54), in dash panel wiring harness
- J9 - Connection -1- (15a), in ABS wiring harness
- * - Manual gearbox 01E with low range gearing
- ** - Models with manual gearbox

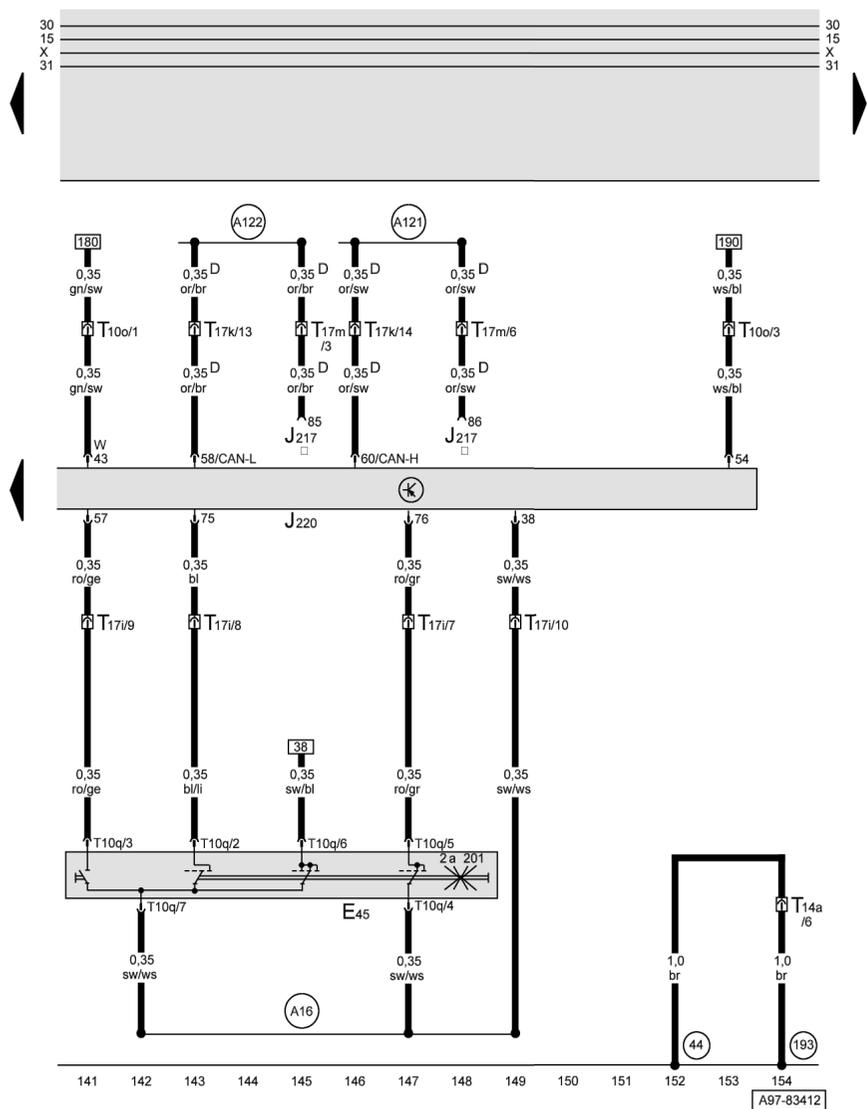
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 bl = blue
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 vi = purple
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 or = orange
 rs = pink

A97-83167

Audi A6

Current Flow Diagram

No. 11 / 12



Motronic control unit, cruise control system switch

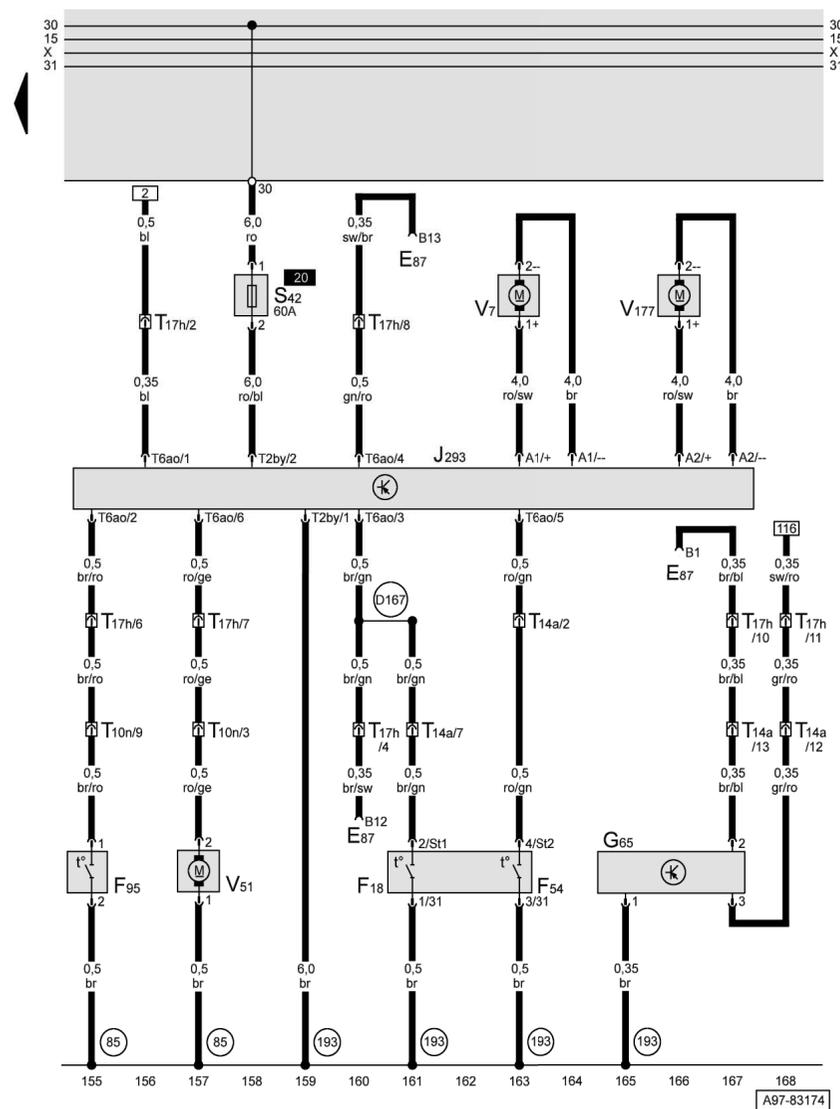
- E45 - Cruise control system switch
- J217 - Automatic gearbox control unit
- J220 - Motronic control unit
- T10o - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T10q - 10-pin connector, black, on cruise control system switch
- T14a - 14-pin connector, black, in engine compartment, front left
- T17i - 17-pin connector, white, 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
- 44 - Earth point, lower part of left A pillar
- 193 - Earth connection -1-, in radiator fan wiring harness
- 193 - Earth connection -1-, in radiator fan wiring harness
- A16 - Connection (cruise control system), 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

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 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. 11 / 13



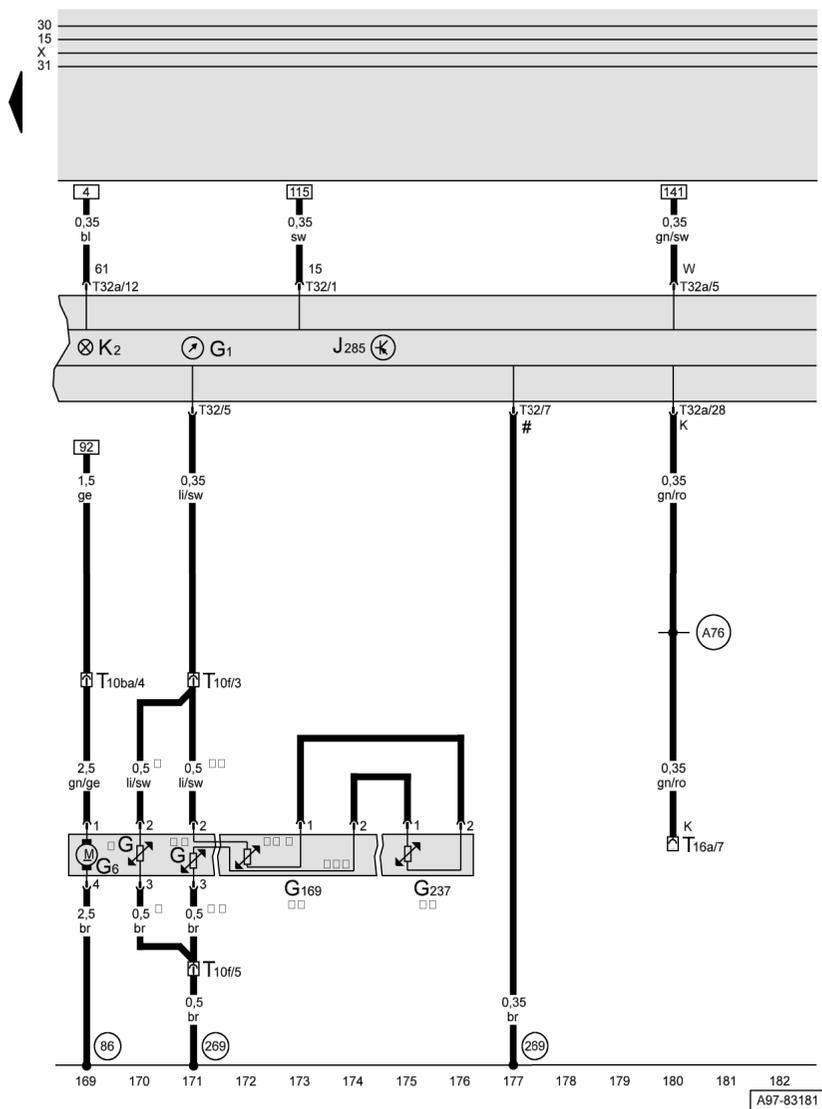
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- Radiator fan control unit, radiator fan, radiator fan thermo-switches**
- E87 - Control and display unit for air conditioner
 - F18 - Radiator fan thermo-switch
 - F54 - Radiator fan thermo-switch
 - F95 - Thermo-switch for continued coolant circulation
 - 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
 - T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
 - T14a - 14-pin connector, black, in engine compartment, front left
 - T17h - 17-pin connector, brown, connector point, A pillar, left
 - V7 - Radiator fan
 - V51 - Continued coolant circulation pump
 - V177 - Radiator fan -2-
 - 85 - Earth connection -1-, in engine compartment wiring harness
 - 193 - Earth connection -1-, in radiator fan wiring harness
 - D167 - Connection (radiator fan stage I), in engine compartment wiring harness

Audi A6

Current Flow Diagram

No. 11 / 14



Dash panel insert, fuel pump

- 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

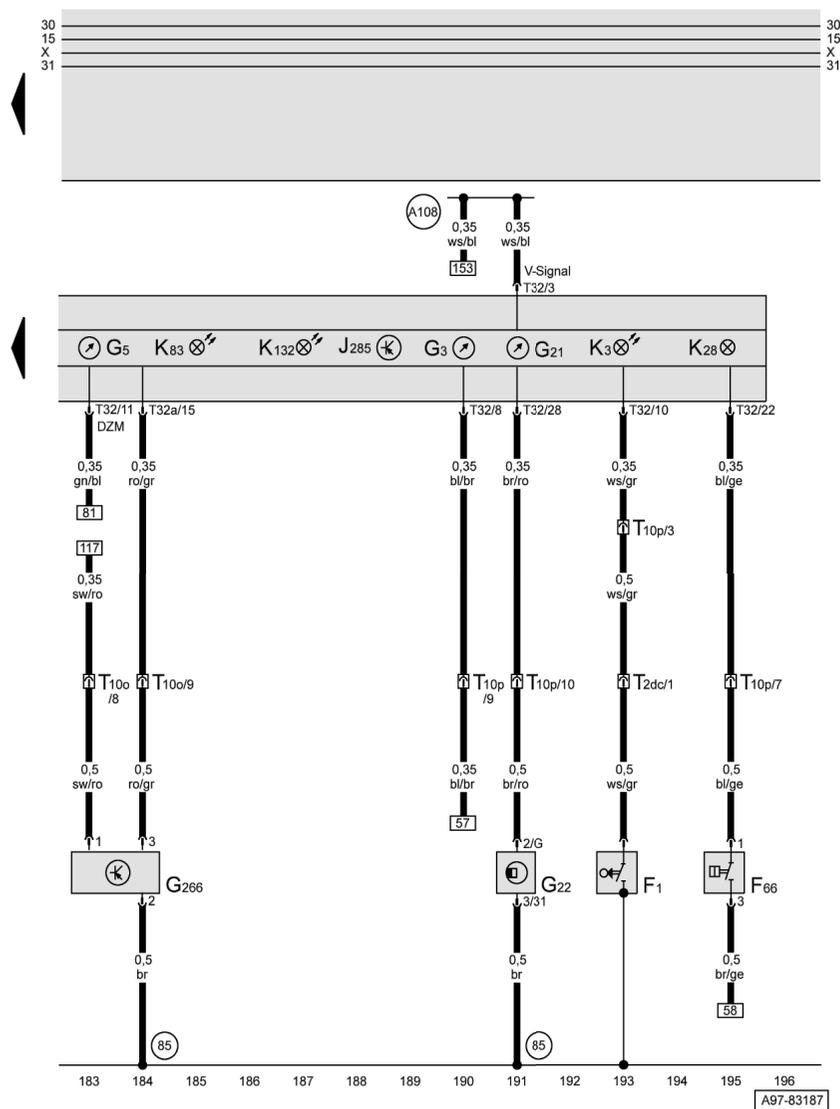
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- ge = yellow
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- rs = pink

- * - Models with front-wheel drive
- ** - Models with four-wheel drive
- *** - Wiring in fuel tank
- # - Sender earth output

Audi A6

Current Flow Diagram

No. 11 / 15



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, oil level thermo sender, oil pressure warning lamp

- 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)
- G266 - Oil level thermo sender, service interval
- 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
- T2dc - 2-pin connector, black, near injector, cylinder 4
- T10o - 10-pin connector, brown, connector point, electronics box, plenum chamber
- 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
- 85 - Earth connection -1-, in engine compartment wiring harness
- A108 - Connection (speed signal), in dash panel wiring harness

A97-83187