

Audi A6

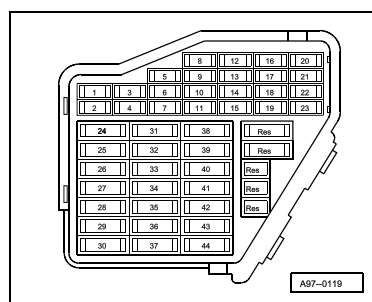
Current Flow Diagram

No. 15/1

1.9 litre turbo-diesel engine (96 kW - 4-cylinder), engine codes AWX, AVF

From model year 2002

Fuse box

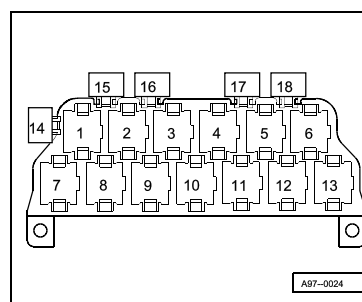


Fuse colours:

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

fuse box are designated as 223 etc. in the Current Flow Diagram.

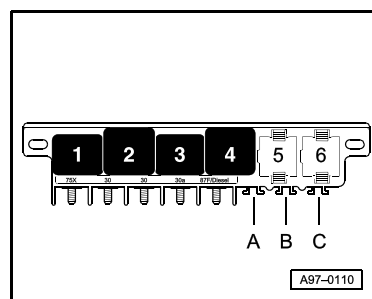
13-point relay carrier



Position of relays:

- 6** - Fuel pump relay (J17)

Micro-central electrics



Position of relays:

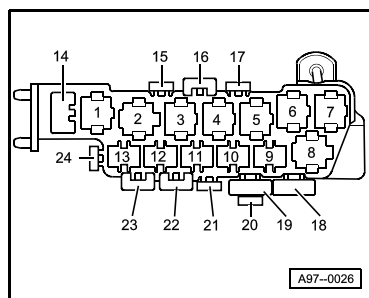
- 4** - Relay for glow plugs (J52)

Audi A6

Current Flow Diagram

No. 15/2

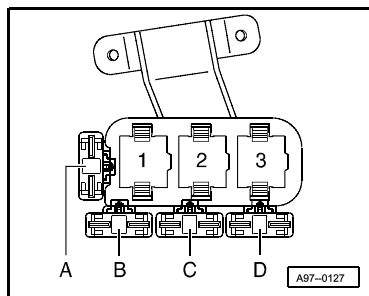
8-point relay carrier



Position of relays:

- 2** - Radiator fan 2nd speed relay (J101)
- 3** - Radiator fan relay (J26)
- 4** - Radiator fan run-on relay (J138)
- 20** - Radiator fan single fuse (S42)
- 21** - Fuse for radiator fan relay (S142)

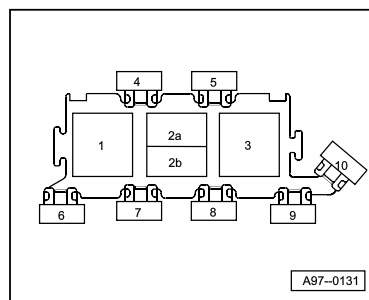
Relay carrier, driver's side, behind dash panel at central carrier



Position of relays:

- 1** - Low heat output relay (J359)
- 3** - High heat output relay (J360)
- C** - Additional heater fuse 2 (S143)
- D** - Additional heater fuse (S109)

3-point relay carrier in electronics box,



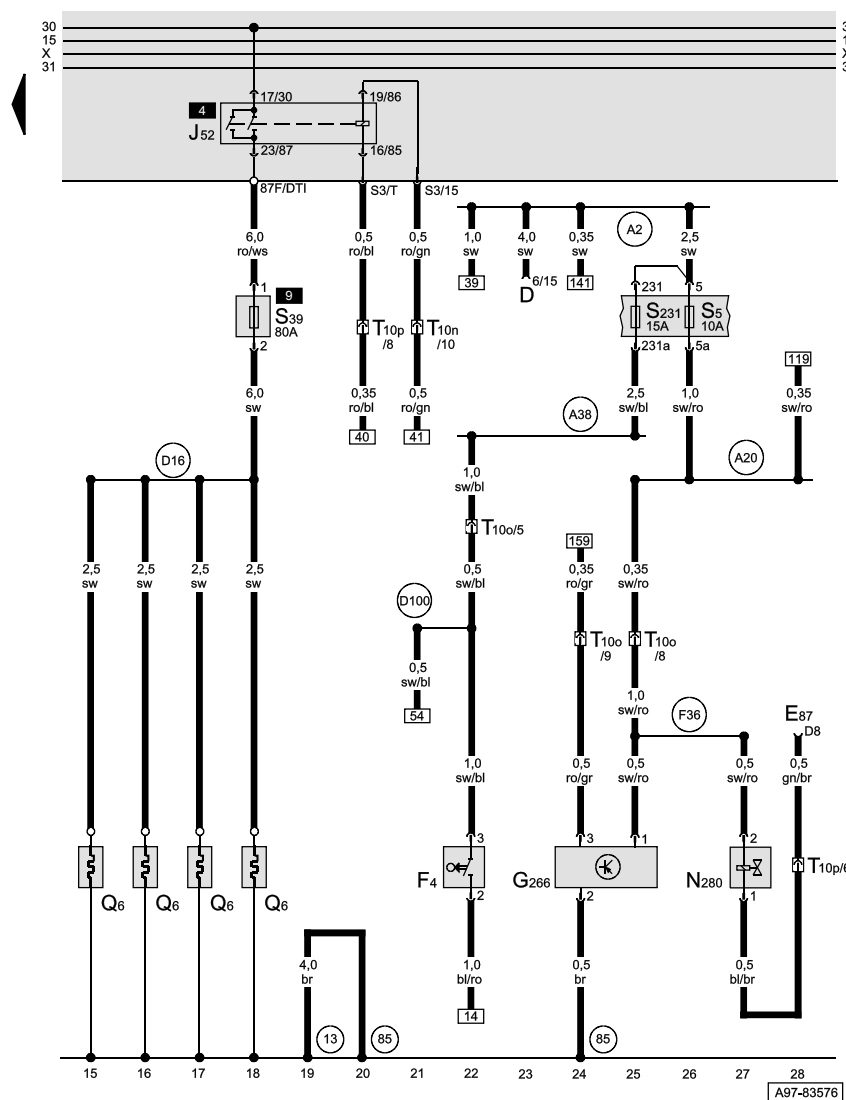
Position of relays:

- 3** - Diesel direct injection system relay (J322)
- 5** - Engine control unit fuse (S102)
- 9** - Fuse for glow plugs - engine (S39)
- 10** - Fuse -1- (15) (S199) in electronics box, on housing

Audi A6

Current Flow Diagram

No. 15 / 3



Glow plugs, relay for glow plugs

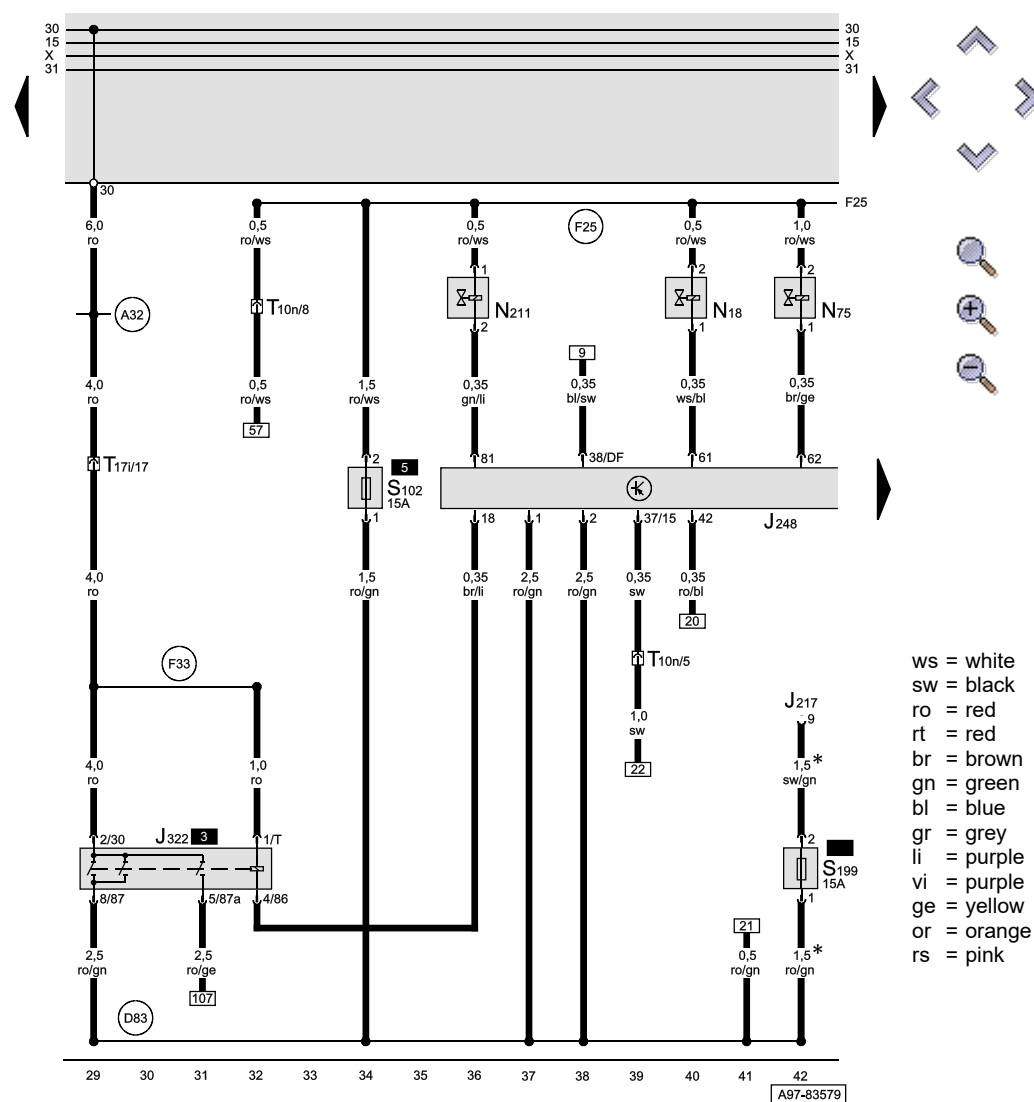
- D - Ignition/starter switch
- F4 - Reversing light switch
- G266 - Oil level thermo sender, service interval
- J52 - Glow plug relay
- N280 - Air conditioning system compressor regulating valve
- Q6 - Glow plugs - engine
- S5 - Fuse in fuse box
- S39 - Fuse for glow plugs - engine
- S231 - Fuse 31 in fuse box
- T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
- T10o - 10-pin connector, brown, connector point, electronics box, plenum chamber
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- 13 - Earth point, in engine compartment, right
- 85 - Earth connection -1-, in engine compartment wiring harness
- A2 - Positive (+) connection (15), in dash panel wiring harness
- A20 - Connection (15a), in dash panel wiring harness
- A38 - Positive (+) connection -2- (15a), in dash panel wiring harness
- D16 - Connection (glow plugs), in front right wiring harness
- D100 - Positive (+) connection -2- (15), in engine compartment wiring harness
- F36 - Connection (15a), in diesel direct injection system 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. 15 / 4



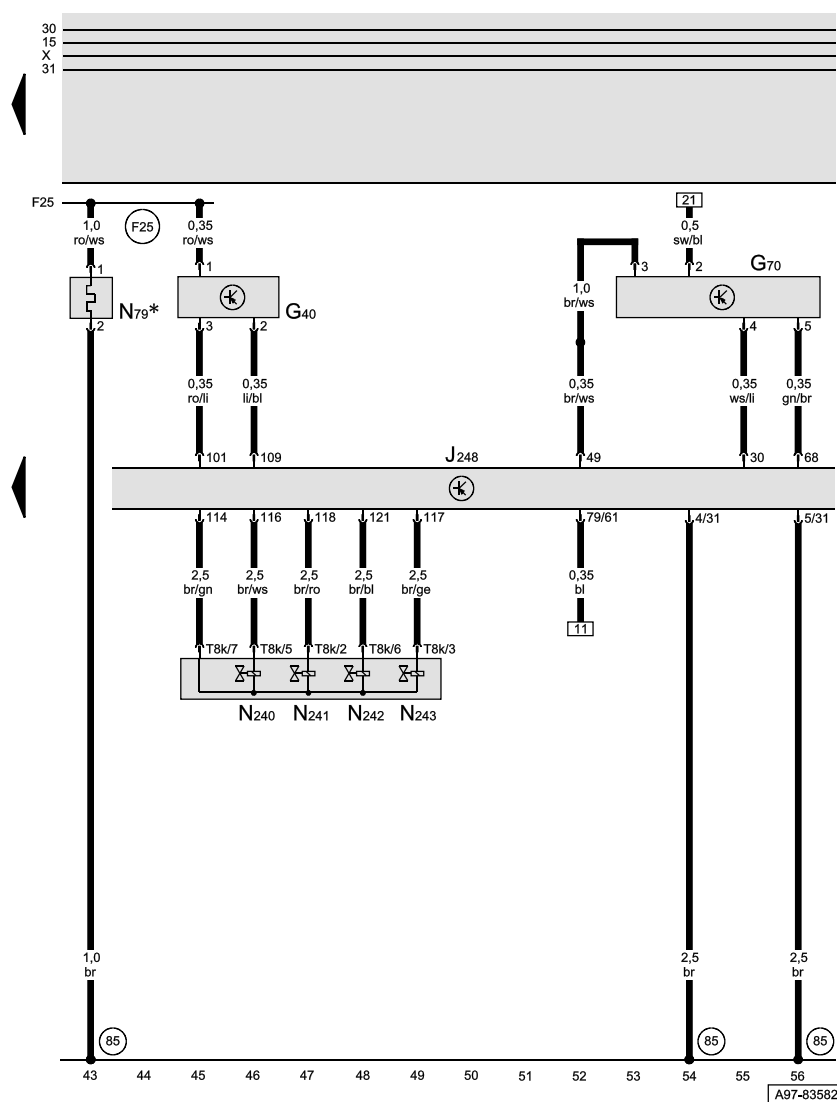
Diesel direct injection system control unit, diesel direct injection system relay, exhaust gas recirculation valve, charge pressure control solenoid valve, throttle butterfly valve

- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit
- J322 - Diesel direct injection system relay
- N18 - Exhaust gas recirculation valve
- N75 - Charge pressure control solenoid valve
- N211 - Throttle butterfly valve
- S102 - Engine control unit fuse
- S199 - Fuse -1- (15), in electronics box, on housing
- T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
- T17i - 17-pin connector, white, connector point, electronics box, plenum chamber
- A32 - Positive (+) connection (30), in dash panel wiring harness
- D83 - Connection (87), in engine compartment wiring harness
- F25 - Connection -1-, in diesel direct injection system wiring harness
- F33 - Positive (+) connection (30), in diesel direct injection system wiring harness
- * - Models with automatic gearbox: multitronic ® 01J

Audi A6

Current Flow Diagram

No. 15 / 5



Diesel direct injection system control unit, unit injector solenoid valves - cylinders No. 1 - 4, air mass meter

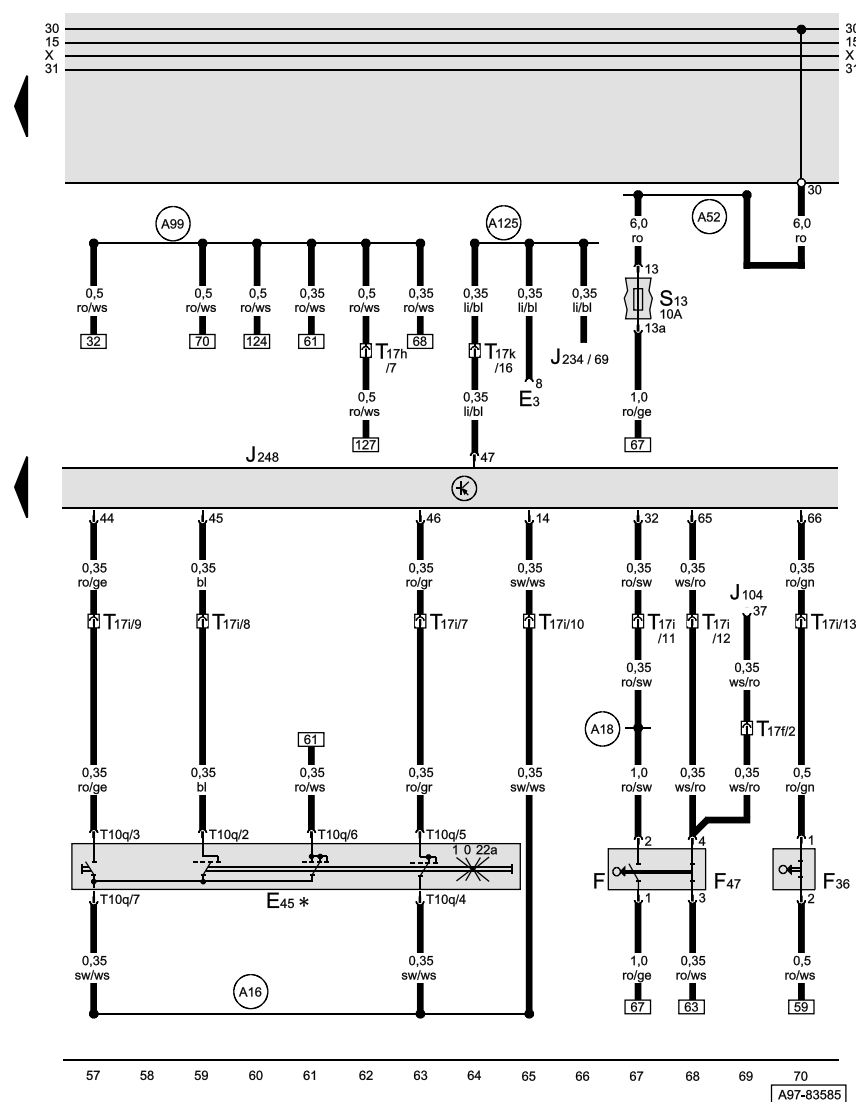
- G40 - Hall sender
- G70 - Air mass meter
- J248 - Diesel direct injection system control unit
- N79 - Heater element (crankcase breather)
- N240 - Unit injector solenoid valve, No. 1 cyl.
- N241 - Unit injector solenoid valve, No. 2 cyl.
- N242 - Unit injector solenoid valve, No. 3 cyl.
- N243 - Unit injector solenoid valve, No. 4 cyl.
- T8k - 8-pin connector, near solenoid valves (unit injector), TDI engine
- 85 - Earth connection -1-, in engine compartment wiring harness
- F25 - Connection -1-, in diesel direct injection system wiring harness
- * - Only applies to versions rated down to -40°C

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. 15 / 6


Diesel direct injection system control unit, cruise control system switch, brake light switch

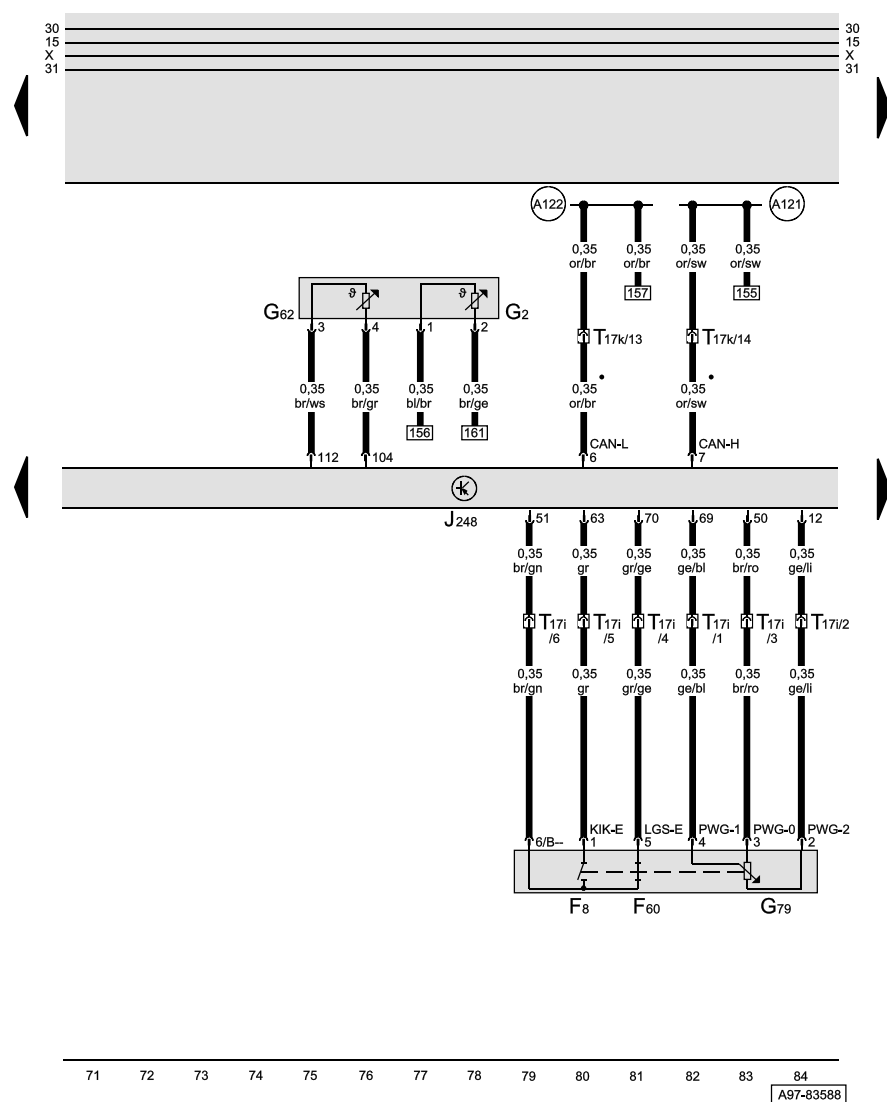
- E3 - Hazard warning light switch
- E45 - Cruise control system switch
- F - Brake light switch
- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch (diesel direct injection system)
- J104 - ABS with EDL control unit
- J234 - Airbag control unit
- J248 - Diesel direct injection system control unit
- S13 - Fuse in fuse box
- T10q - 10-pin connector, black, on cruise control system switch
- T17f - 17-pin connector, black, in 8-point relay carrier, behind driver's storage compartment
- T17h - 17-pin connector, brown, connector point, A pillar, left
- T17i - 17-pin connector, white, connector point, electronics box, plenum chamber
- T17k - 17-pin connector, red, connector point, electronics box, plenum chamber
- A16 - Connection (cruise control system), in dash panel wiring harness
- A18 - Connection (54), in dash panel wiring harness
- A52 - Positive (+) connection 2 (30), in dash panel wiring harness
- A99 - Connection -1- (87), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- * - Models with cruise control system

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. 15 / 7



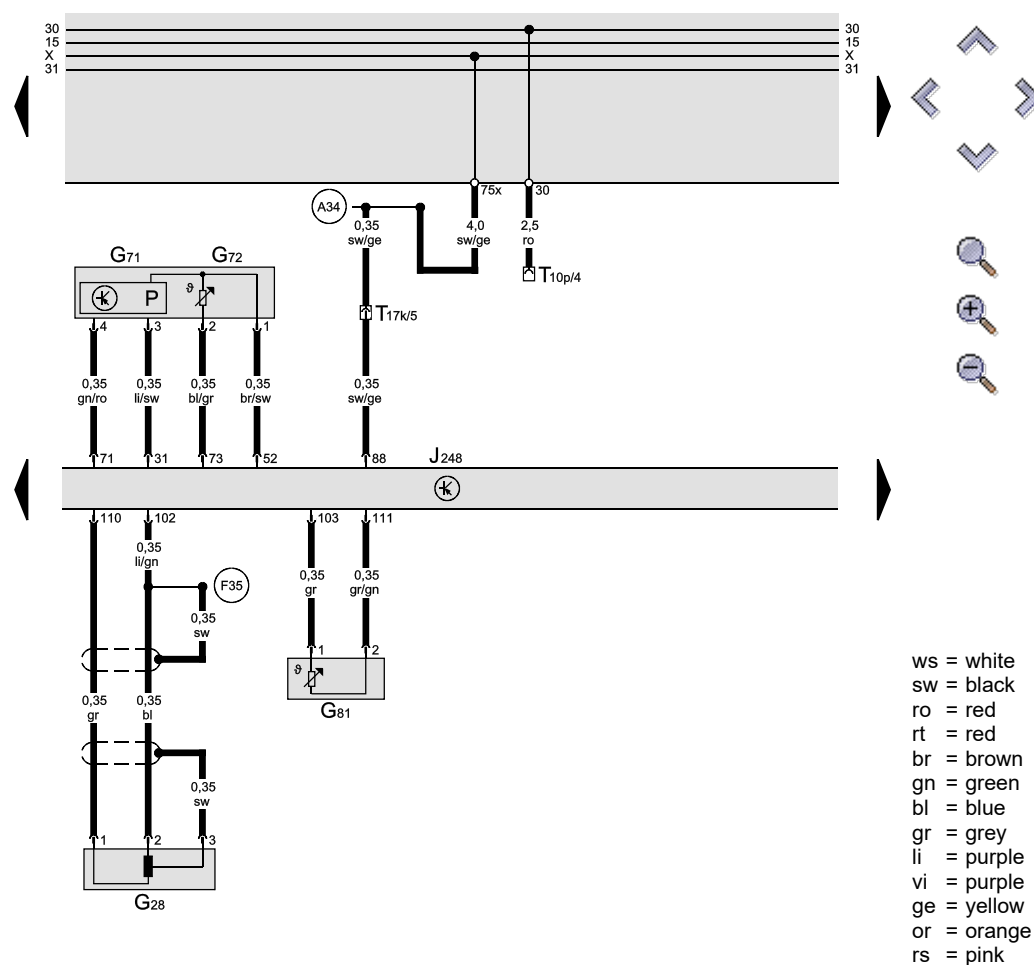
Diesel direct injection system control unit, coolant temperature senders, accelerator pedal position sender

- F8 - Kick-down switch
- F60 - Idling switch
- G2 - Coolant temperature sender
- G62 - Coolant temperature sender
- G79 - Accelerator pedal position sender
- J248 - Diesel direct injection system control unit
- T17i - 17-pin connector, white, connector point, electronics box, plenum chamber
- T17k - 17-pin connector, red, connector point, electronics box, plenum chamber
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- - CAN bus (data wire)

Audi A6

Current Flow Diagram

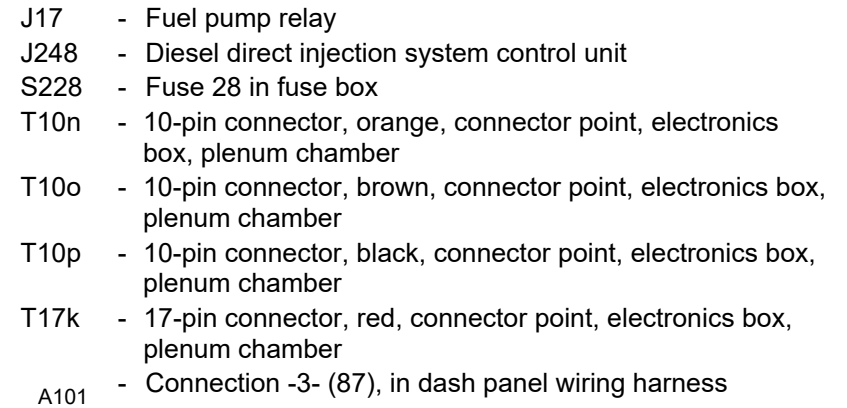
No. 15 / 8



Diesel direct injection system control unit, engine speed sender, intake manifold pressure sender, fuel temperature sender

- G28 - Engine speed sender
- G71 - Intake manifold pressure sender
- G72 - Intake manifold temperature sender
- G81 - Fuel temperature sender
- J248 - Diesel direct injection system control unit
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- T17k - 17-pin connector, red, connector point, electronics box, plenum chamber
- A34 - Connection (75x), in dash panel wiring harness
- F35 - Connection -4-, in diesel direct injection system wiring harness

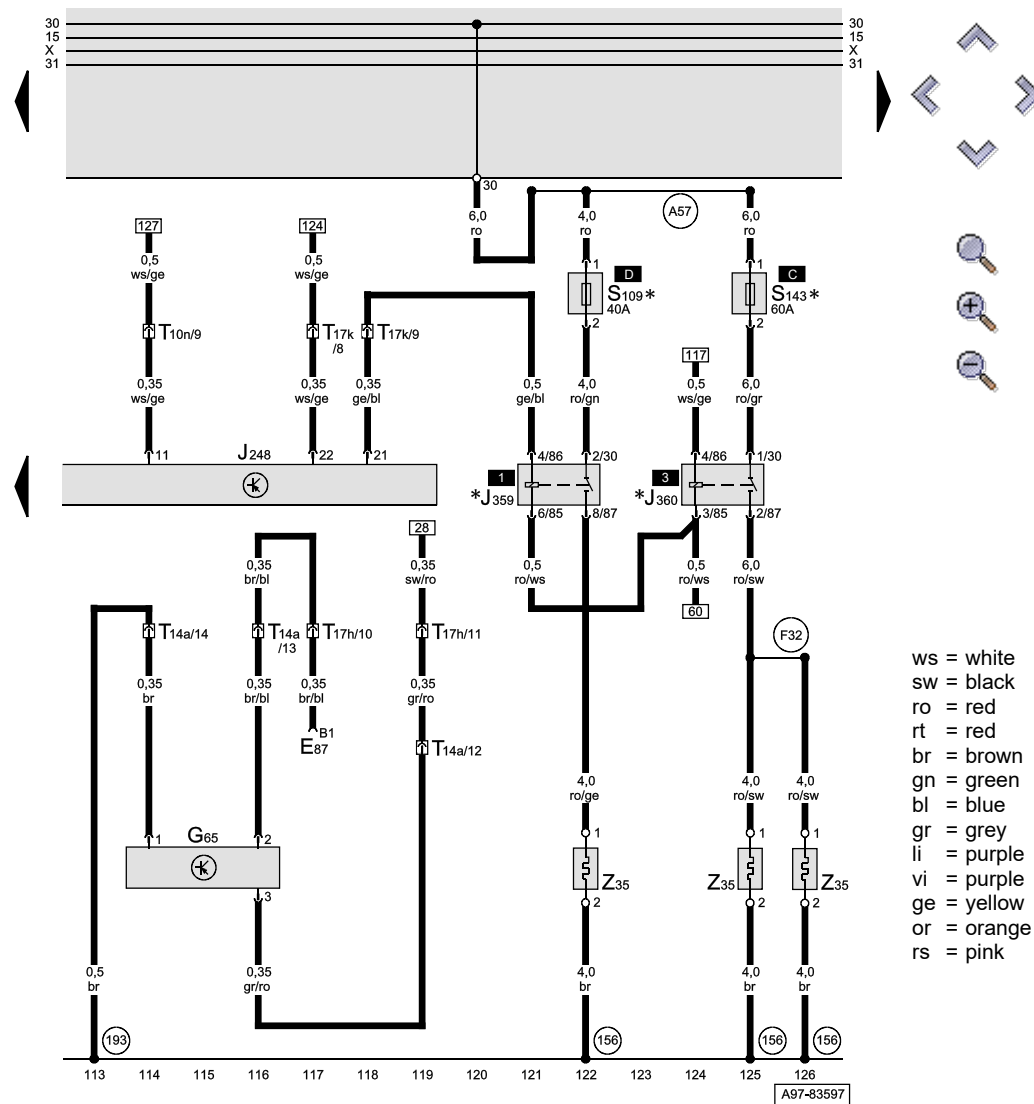
No. 15 / 9



Audi A6

Current Flow Diagram

No. 15 / 10



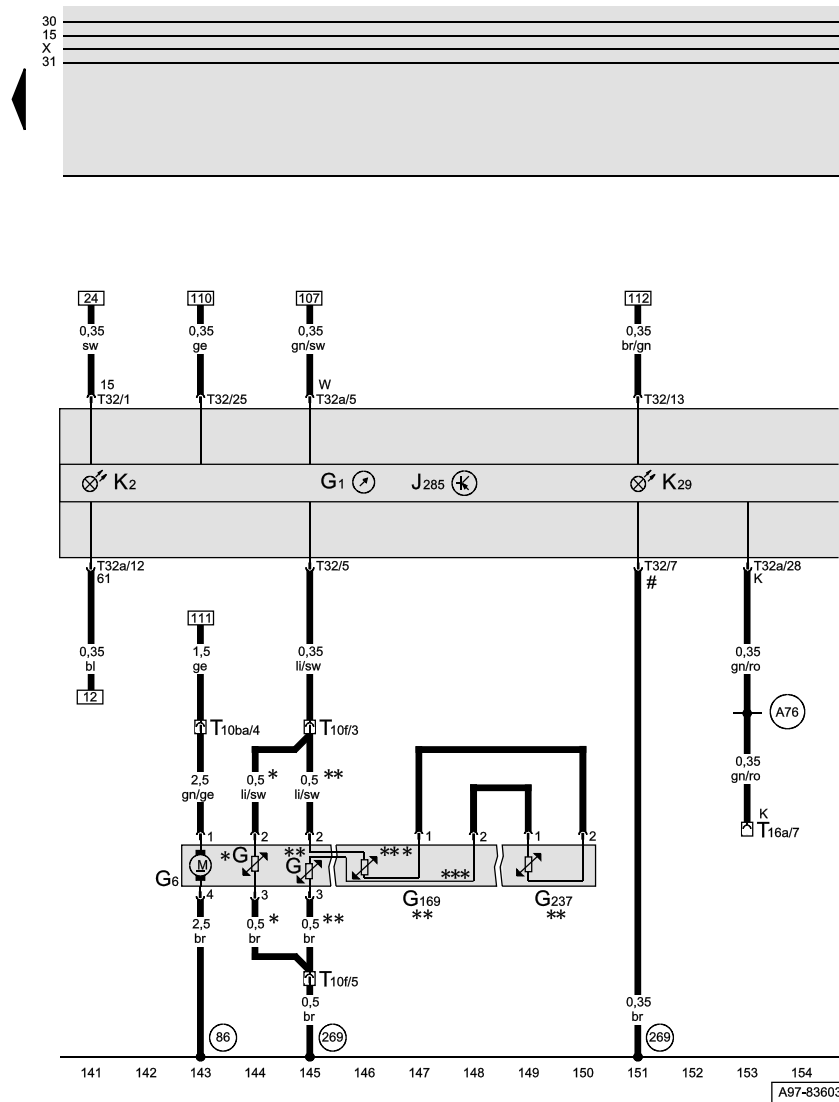
Additional heater

- E87 - Control and display unit for air conditioner
- G65 - High pressure sender
- J248 - Diesel direct injection system control unit
- J359 - Low heat output relay
- J360 - High heat output relay
- S109 - Additional heater fuse
- S143 - Additional heater fuse 2
- 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
- T17k - 17-pin connector, red, connector point, electronics box, plenum chamber
- Z35 - Additional heating heater element
- 156 - Earth connection, in diesel direct injection wiring harness
- 193 - Earth connection -1-, in radiator fan wiring harness
- A57 - Connection (30), in dash panel wiring harness
- F32 - Connection (additional heater), in diesel direct injection system wiring harness
- * - Models without auxiliary heater

Audi A6

Current Flow Diagram

No. 15 / 12



Dash panel insert, fuel gauge senders

- 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
 - K29 - Glow period 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

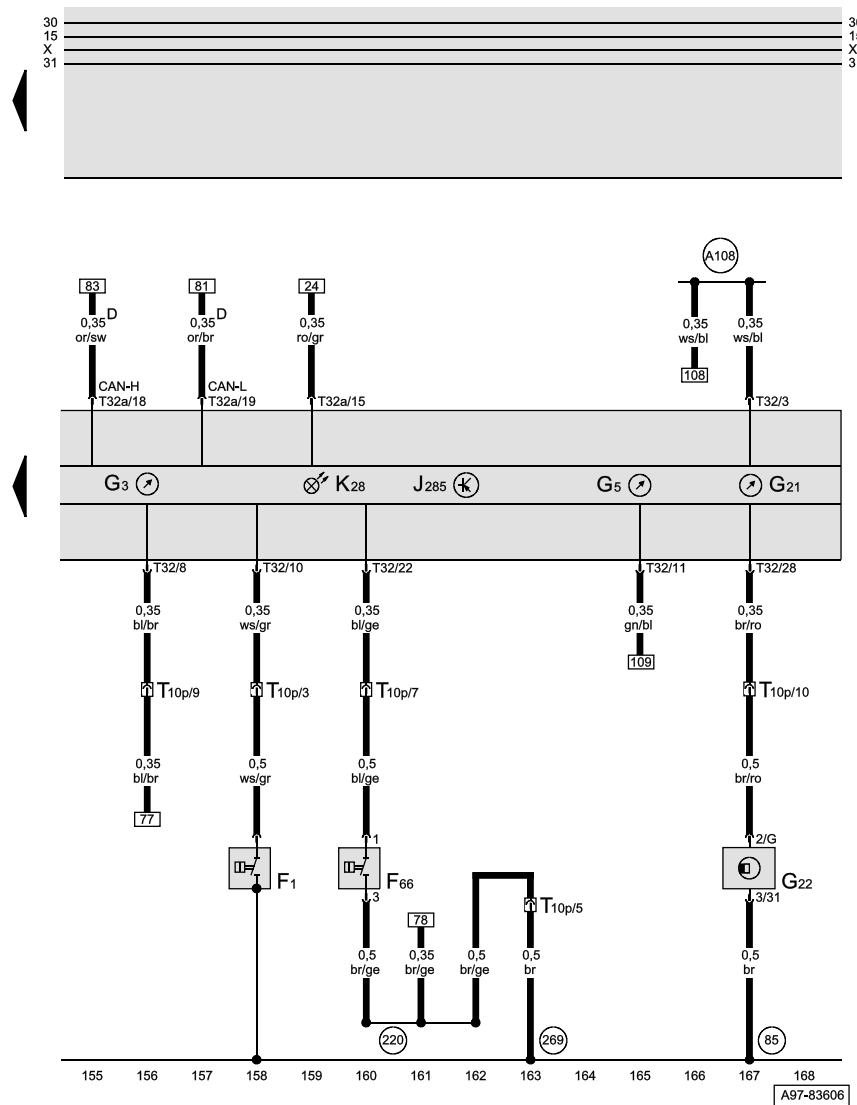
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

A97-83603

Audi A6

Current Flow Diagram

No. 15 / 13



Dash panel insert, speedometer sender, oil pressure switch

- 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
- K28 - Coolant temperature/coolant shortage warning 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
- 85 - Earth connection -1-, in engine compartment wiring harness
- 220 - Earth connection (sender earth), in engine wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- A108 - Connection (speed signal), in dash panel wiring harness
- - CAN bus (data wire)

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