

Audi A6

Current Flow Diagram

No. 68 / 1

04.2013

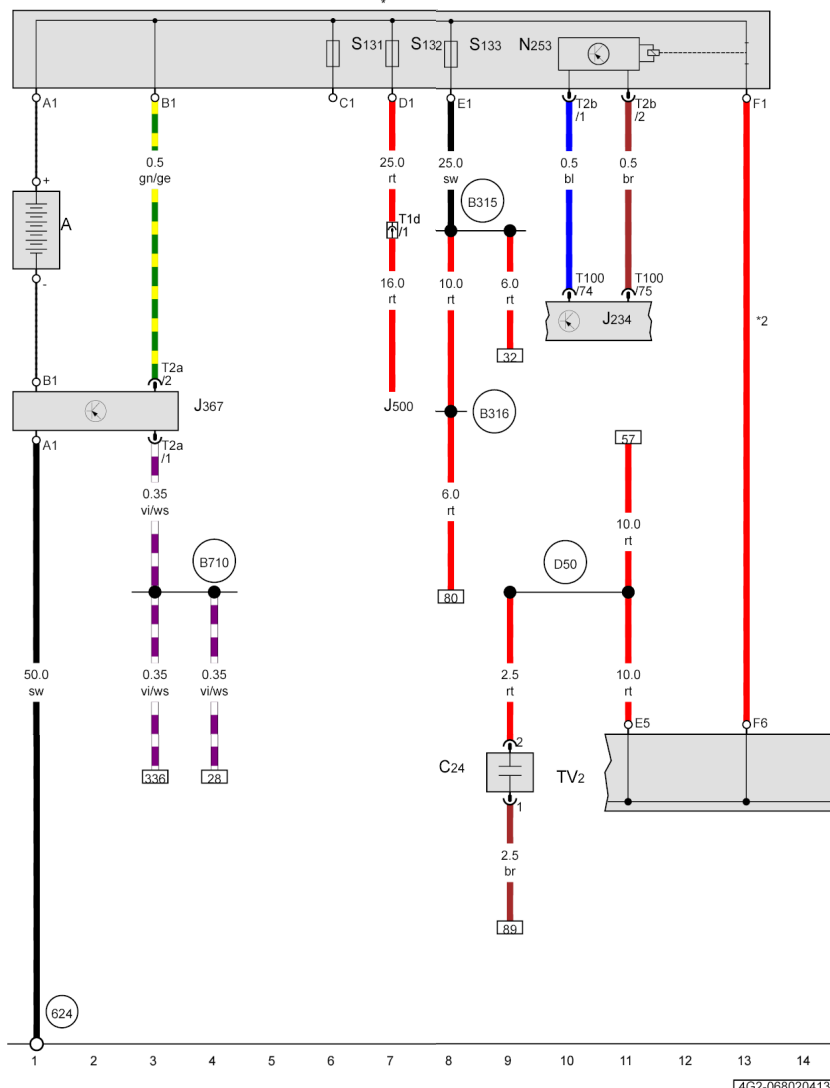
3.0l diesel engine , CGQB

From June 2011

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Current Flow Diagram

No. 68 / 2



Battery, Suppression filter, Battery monitor control unit, Battery isolation igniter, Terminal 30 wiring junction

- A - Battery
- C24 - Suppression filter
- J234 - Airbag control unit
- J367 - Battery monitor control unit
- J500 - Power steering control unit
- N253 - Battery isolation igniter, near battery
- S131 - Fuse 1
- S132 - Fuse 2
- S133 - Fuse 3
- T1d - Single connector, on front left on vehicle floor
- T2a - 2-pin connector
- T2b - 2-pin connector
- TV2 - Terminal 30 wiring junction, central in plenum chamber
- T100 - 100-pin connector
- 624 - Earth point, starter battery
- B315 - Positive connection 1 (30a) in main wiring harness
- B316 - Positive connection 2 (30a) in main wiring harness
- B710 - Connection 5 (LIN bus) in main wiring harness
- D50 - Positive connection (30), in engine compartment wiring harness
- * - Main fuse carrier, on battery on rear right in luggage compartment
- *2 - Flat conductor

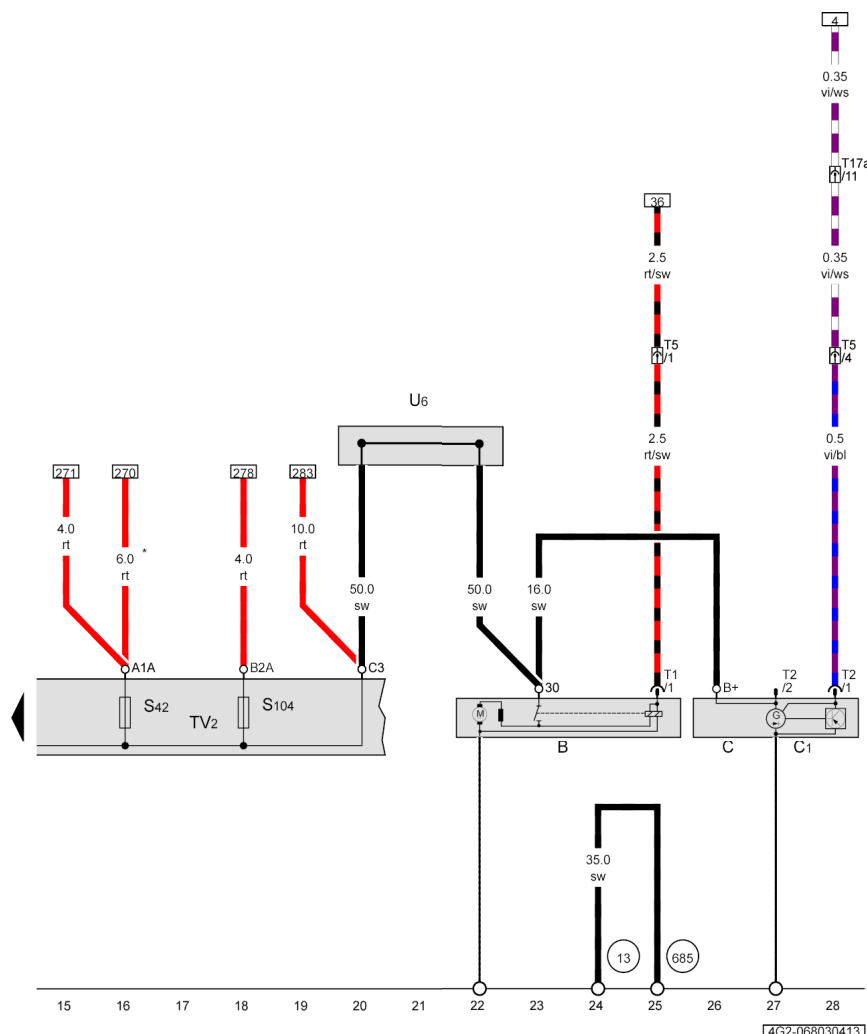


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 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
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 ge = yellow
 or = orange
 rs = pink

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Current Flow Diagram

No. 68 / 3



Starter, Alternator, Terminal 30 wiring junction

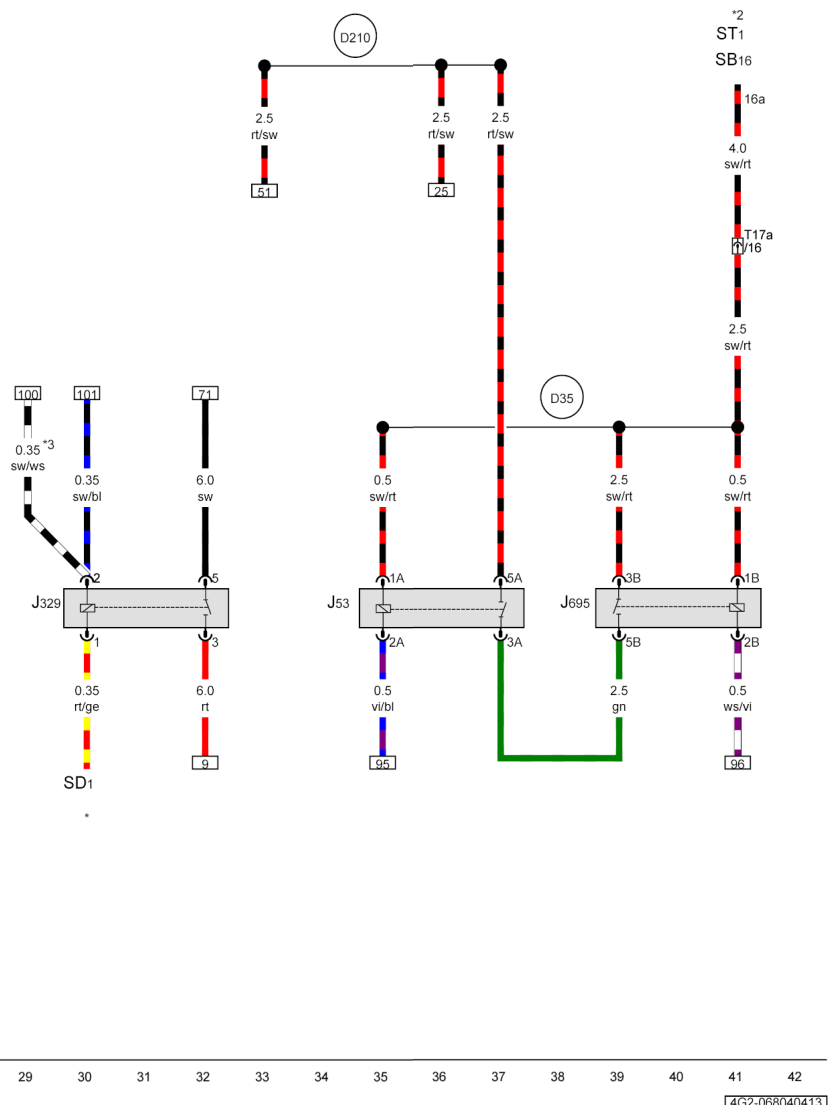
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- S42 - Radiator fan single fuse
- S104 - Radiator fan fuse for 2nd speed
- T1 - Single connector
- T2 - 2-pin connector
- T5 - 5-pin connector, central in plenum chamber
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber
- TV2 - Terminal 30 wiring junction, central in plenum chamber
- U6 - Jump start socket
- 13 - Earth point, on right in engine compartment
- 685 - Earth point 1 at front of right longitudinal member
- * - Only models with Tiptronic

ws = white
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Current Flow Diagram

No. 68 / 4



Starter motor relay, Terminal 15 voltage supply relay, Starter motor relay 2

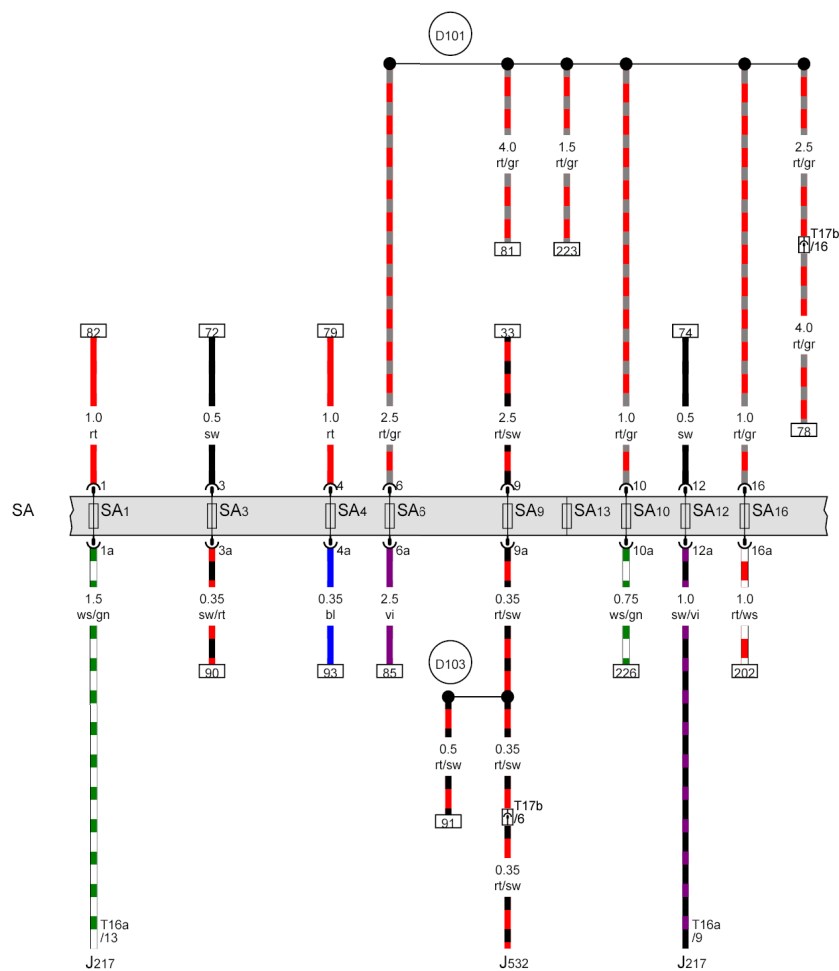
- J53 - Starter motor relay
- J329 - Terminal 15 voltage supply relay
- J695 - Starter motor relay 2
- ST1 - Fuse carrier 1
- SD1 - Fuse 1 on fuse holder D
- SB16 - Fuse 16 on fuse holder B
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber
- D35 - Positive connection 1 (15a) in engine prewiring harness
- D210 - Connection (50), in engine compartment wiring harness
- * - see applicable current flow diagram for basic equipment
- *2 - see applicable current flow diagram for fuse assignment
- *3 - Only right-hand drive models



Audi A6

Current Flow Diagram

No. 68 / 5



ws = white
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 vi = purple
 ge = yellow
 or = orange
 rs = pink

Fuse holder A



- J217 - Automatic gearbox control unit
- J532 - Voltage stabiliser
- SA - Fuse holder A
- SA1 - Fuse 1 in fuse holder A
- SA3 - Fuse 3 in fuse holder A
- SA4 - Fuse 4 in fuse holder A
- SA6 - Fuse 6 in fuse holder A
- SA9 - Fuse 9 in fuse holder A
- SA10 - Fuse 10 in fuse holder A
- SA12 - Fuse 12 in fuse holder A
- SA13 - Fuse 13 in fuse holder A
- SA16 - Fuse 16 in fuse holder A
- T16a - 16-pin connector
- T17b - 17-pin connector, Coupling station, E-box on left in plenum chamber
- D101 - Connection 1 in engine compartment wiring harness
- D103 - Connection 3 in engine compartment wiring harness
- * - Only models with start/stop system

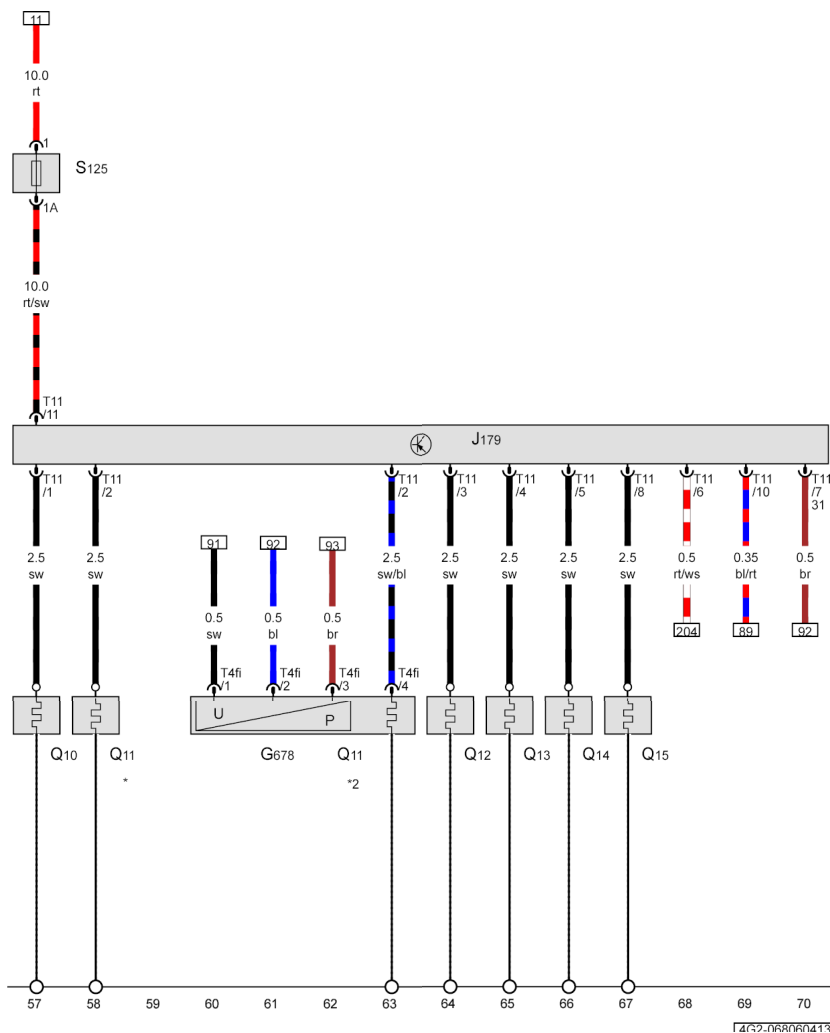
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Current Flow Diagram

No. 68 / 6

Cylinder 2 combustion chamber pressure sender, Automatic glow period control unit

- G678 - Cylinder 2 combustion chamber pressure sender
- J179 - Automatic glow period control unit 
- Q10 - Glow plug 1
- Q11 - Glow plug 2
- Q12 - Glow plug 3
- Q13 - Glow plug 4
- Q14 - Glow plug 5
- Q15 - Glow plug 6
- S125 - Glow plug fuse 
- T4fi - 4-pin connector
- T11 - 11-pin connector
- * - Not for models with Euro 6 emission standard
- *2 - Only models with Euro 6 emission standard

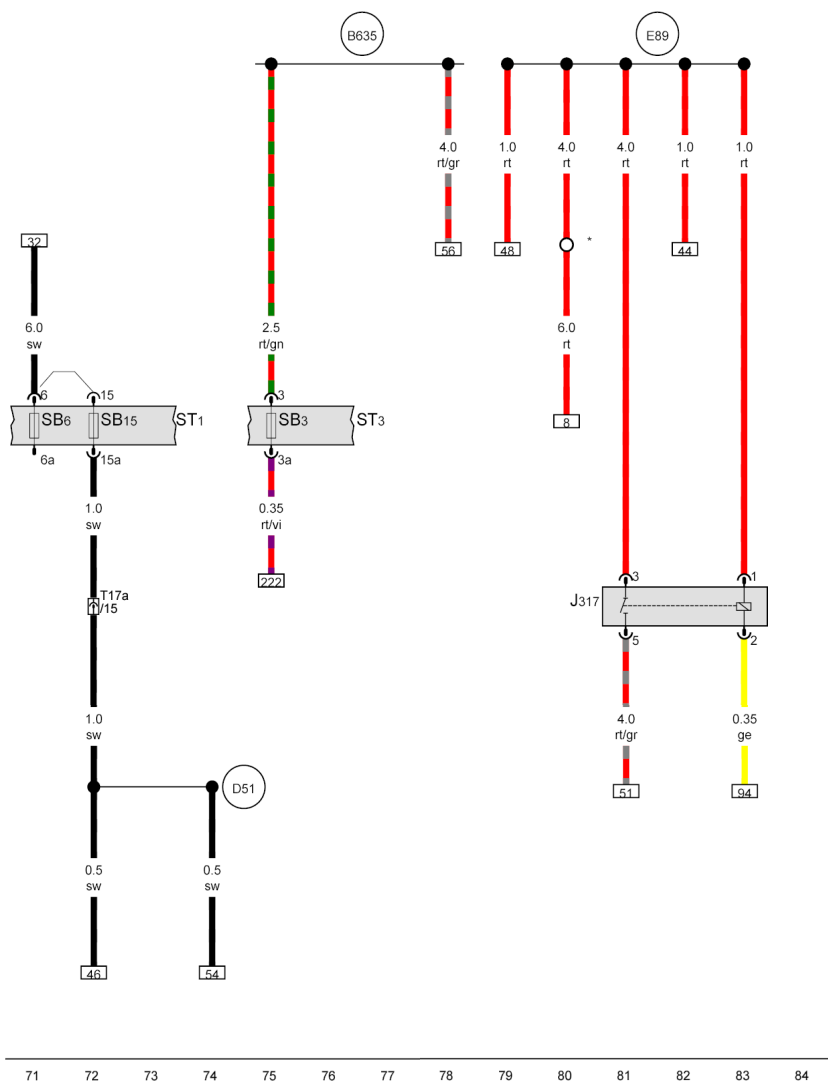


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Current Flow Diagram

No. 68 / 7



Terminal 30 voltage supply relay

- J317 - Terminal 30 voltage supply relay
- ST1 - Fuse carrier 1
- SB3 - Fuse 3 on fuse holder B
- ST3 - Fuse carrier 3
- SB6 - Fuse 6 on fuse holder B
- SB15 - Fuse 15 on fuse holder B
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber
- B635 - Positive connection 3 (87), in main wiring harness
- D51 - Positive connection 1 (15), in engine compartment wiring harness
- E89 - Positive connection (30a) in engine wiring harness
- * - Threaded connection, in E-box in plenum chamber

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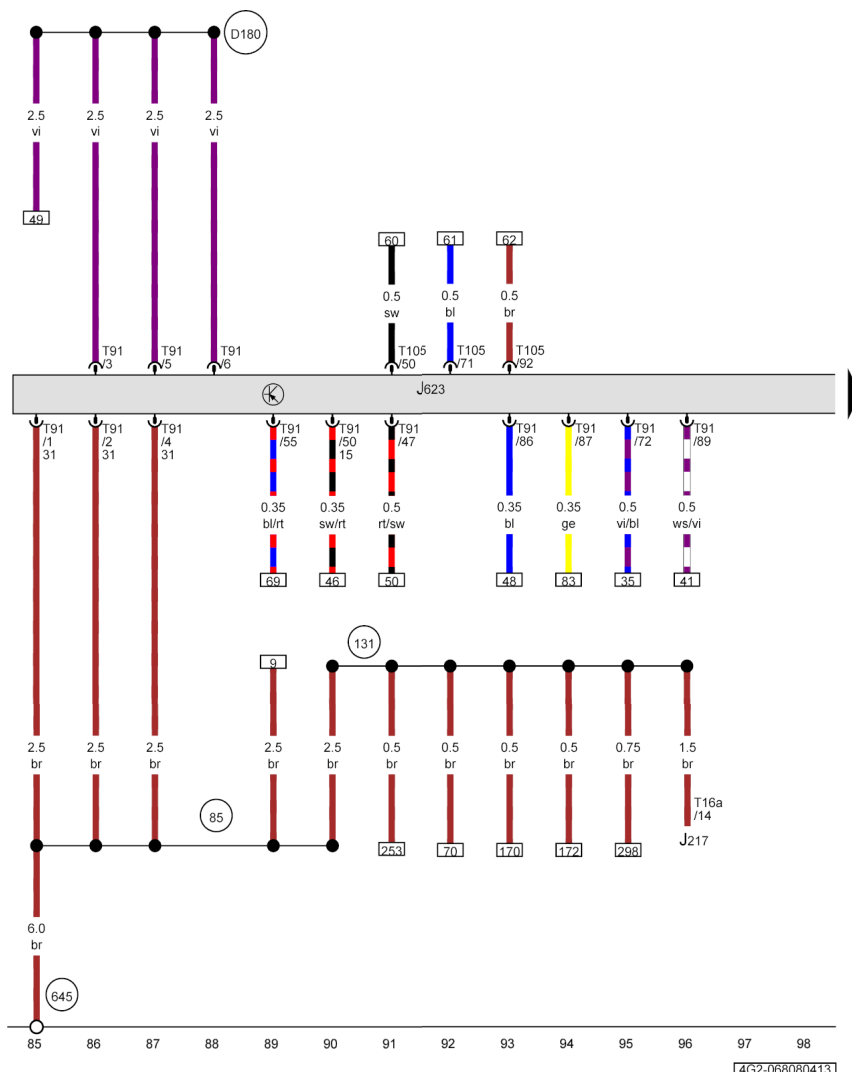
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Current Flow Diagram

No. 68 / 8



Engine control unit

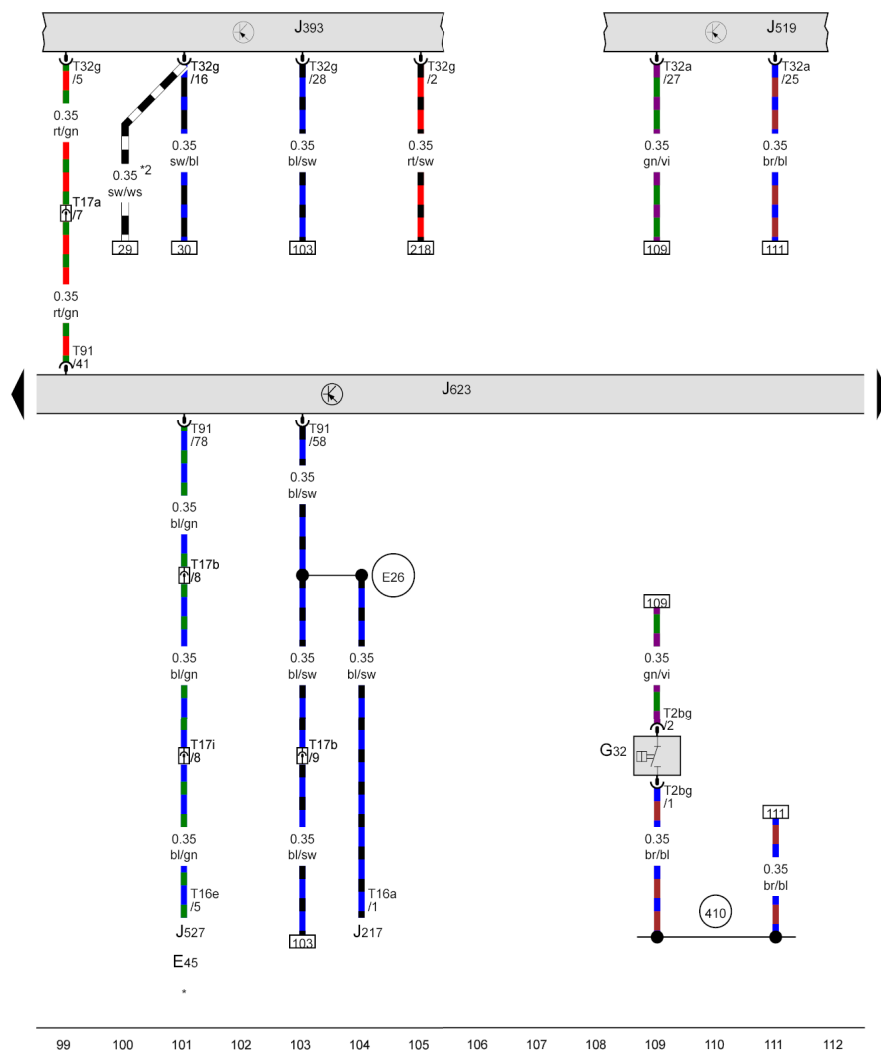
- J217 - Automatic gearbox control unit
- J623 - Engine control unit
- T16a - 16-pin connector
- T91 - 91-pin connector
- T105 - 105-pin connector
- 85 - Earth connection 1, in engine compartment wiring harness
- 131 - Earth connection 2, in engine compartment wiring harness
- 645 - Earth point 1, on bulkhead
- D180 - Connection (87a), in engine compartment wiring harness

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- rs = pink

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Current Flow Diagram

No. 68 / 9



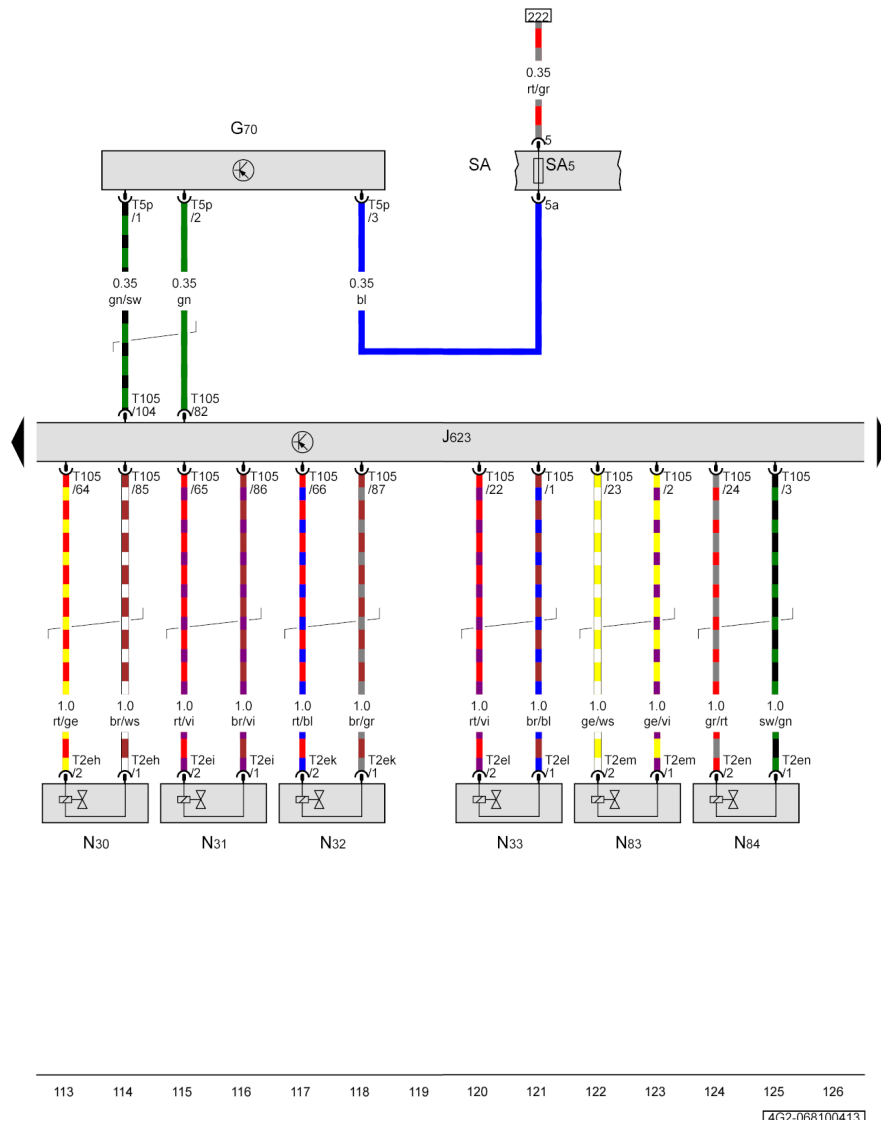
Coolant shortage indicator sender, Onboard supply control unit, Engine control unit

- E45 - Cruise control system switch
- G32 - Coolant shortage indicator sender
- J217 - Automatic gearbox control unit
- J393 - Convenience system central control unit
- J519 - Onboard supply control unit
- J527 - Steering column electronics control unit
- J623 - Engine control unit
- T2bg - 2-pin connector
- T16a - 16-pin connector
- T16e - 16-pin connector
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T17b - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T17i - 17-pin connector, in left A-pillar coupling station
- T32a - 32-pin connector
- T32g - 32-pin connector
- T91 - 91-pin connector
- 410 - Earth connection 1 (sender earth) in main wiring harness
- E26 - Connection (selector position P/N), in Motronic wiring harness
- * - Only models with cruise control system (CCS)
- *2 - Only right-hand drive models

Audi A6

Current Flow Diagram

No. 68 / 10



Air mass meter, Engine control unit, Injector, cylinder 1

- G70 - Air mass meter
- J623 - Engine control unit
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- N83 - Injector, cylinder 5
- N84 - Injector, cylinder 6
- SA - Fuse holder A
- SA5 - Fuse 5 in fuse holder A
- T2eh - 2-pin connector
- T2ei - 2-pin connector
- T2ek - 2-pin connector
- T2el - 2-pin connector
- T2em - 2-pin connector
- T2en - 2-pin connector
- T5p - 5-pin connector
- T105 - 105-pin connector






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- gn = green
- bl = blue
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- vi = purple
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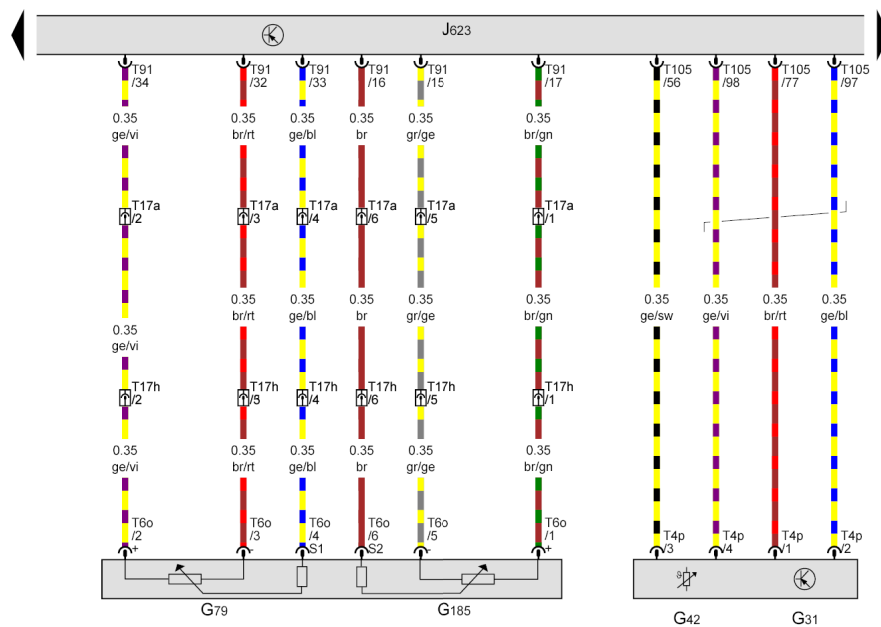
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Current Flow Diagram

No. 68 / 11

Charge pressure sender, Intake air temperature sender, Accelerator position sender, Engine control unit

- G31 - Charge pressure sender
- G42 - Intake air temperature sender
- G79 - Accelerator position sender
- G185 - Accelerator position sender 2
- J623 - Engine control unit 
- T4p - 4-pin connector
- T6o - 6-pin connector
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber 
- T17h - 17-pin connector, in left A-pillar coupling station 
- T91 - 91-pin connector
- T105 - 105-pin connector



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- vi = purple
- ge = yellow
- or = orange
- rs = pink

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141 142 143 144 145 146 147 148 149 150

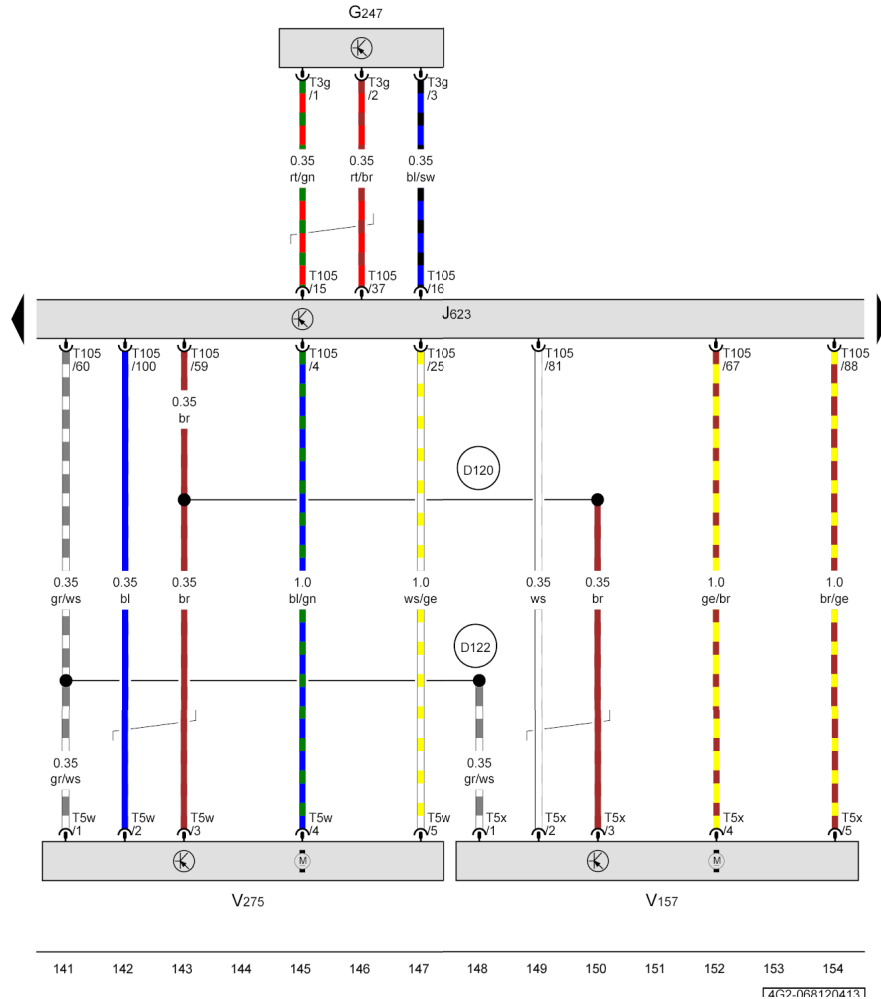
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Current Flow Diagram

No. 68 / 12

Fuel pressure sender, Engine control unit, Intake manifold flap motor

- G247 - Fuel pressure sender
- J623 - Engine control unit
- T3g - 3-pin connector
- T5w - 5-pin connector
- T5x - 5-pin connector
- T105 - 105-pin connector
- V157 - Intake manifold flap motor
- V275 - Intake manifold flap 2 motor
- D120 - Connection 18 in engine compartment wiring harness
- D122 - Connection 20 in engine compartment wiring harness




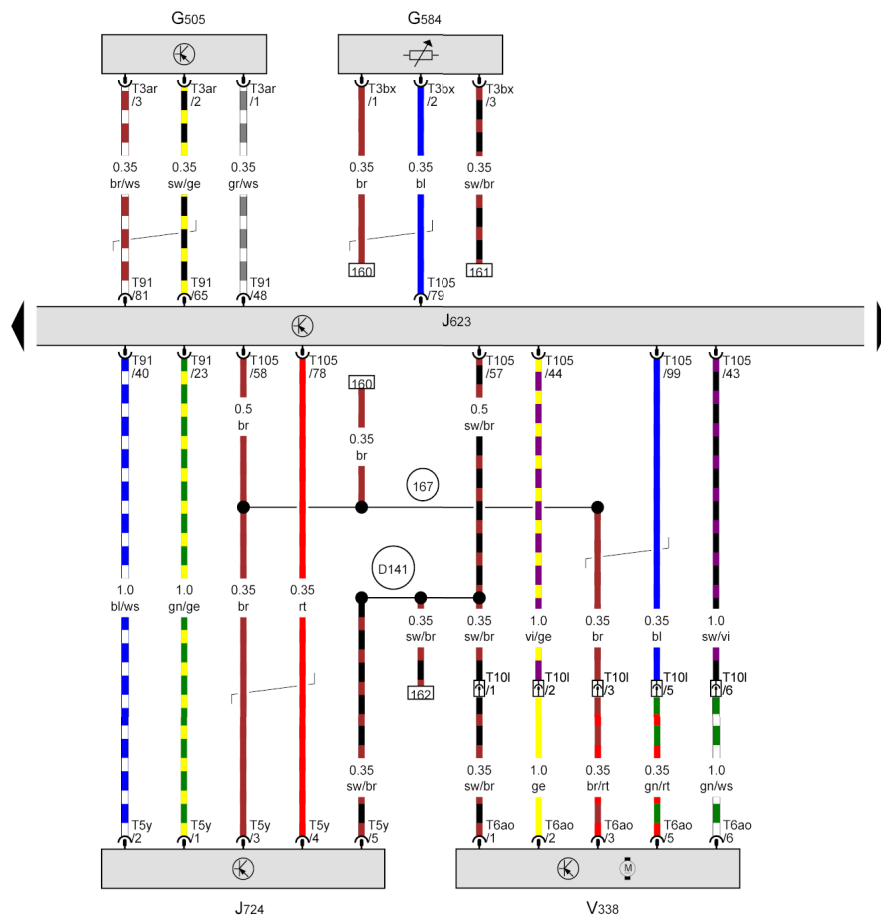
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Current Flow Diagram

No. 68 / 13

Pressure differential sender, Regulating flap potentiometer, Engine control unit, Turbocharger 1 control unit, Exhaust gas recirculation control motor

- G505 - Pressure differential sender
- G584 - Regulating flap potentiometer
- J623 - Engine control unit 
- J724 - Turbocharger 1 control unit
- T3ar - 3-pin connector
- T3bx - 3-pin connector
- T5y - 5-pin connector
- T6ao - 6-pin connector
- T10l - 10-pin connector, on right in engine compartment
- T91 - 91-pin connector
- T105 - 105-pin connector
- V338 - Exhaust gas recirculation control motor
- 167 - Earth connection 4, in engine compartment wiring harness
- D141 - Connection (5V) in engine prewiring harness



ws = white
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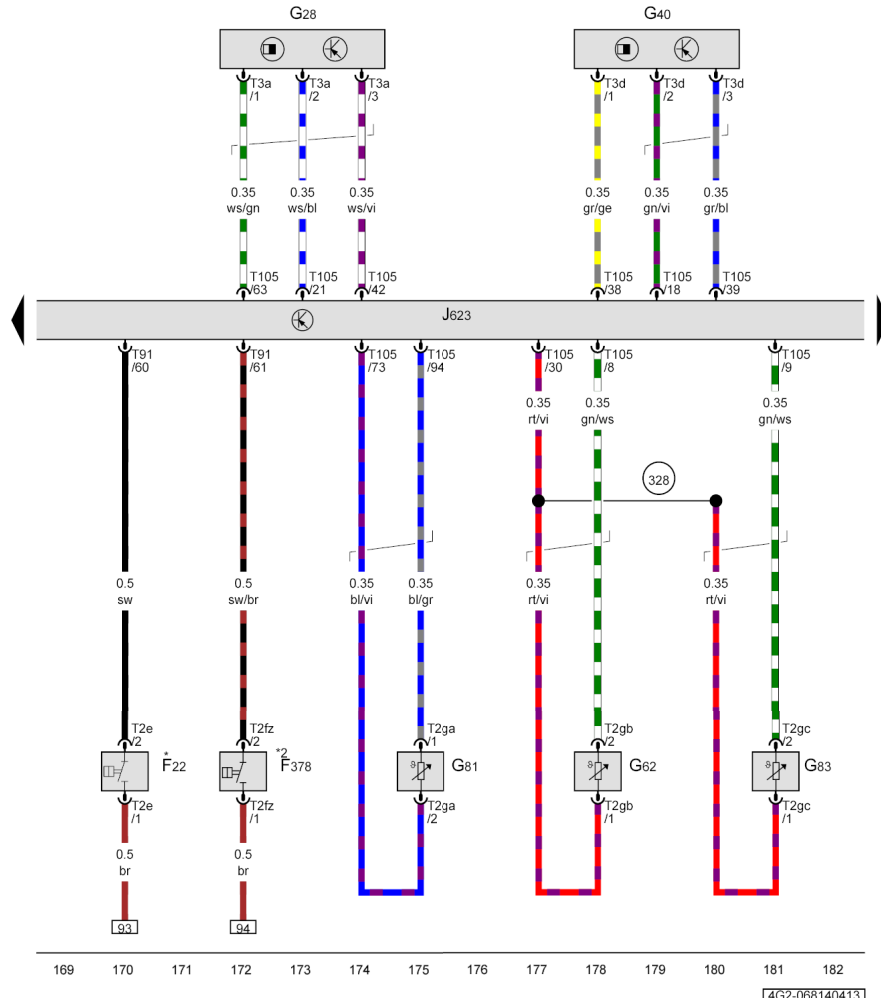
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Audi A6

Current Flow Diagram

No. 68 / 14



Oil pressure switch, Oil pressure switch for reduced oil pressure, Engine speed sender, Hall sender, Coolant temperature sender, Fuel temperature sender, Radiator outlet coolant temperature sender, Engine control unit

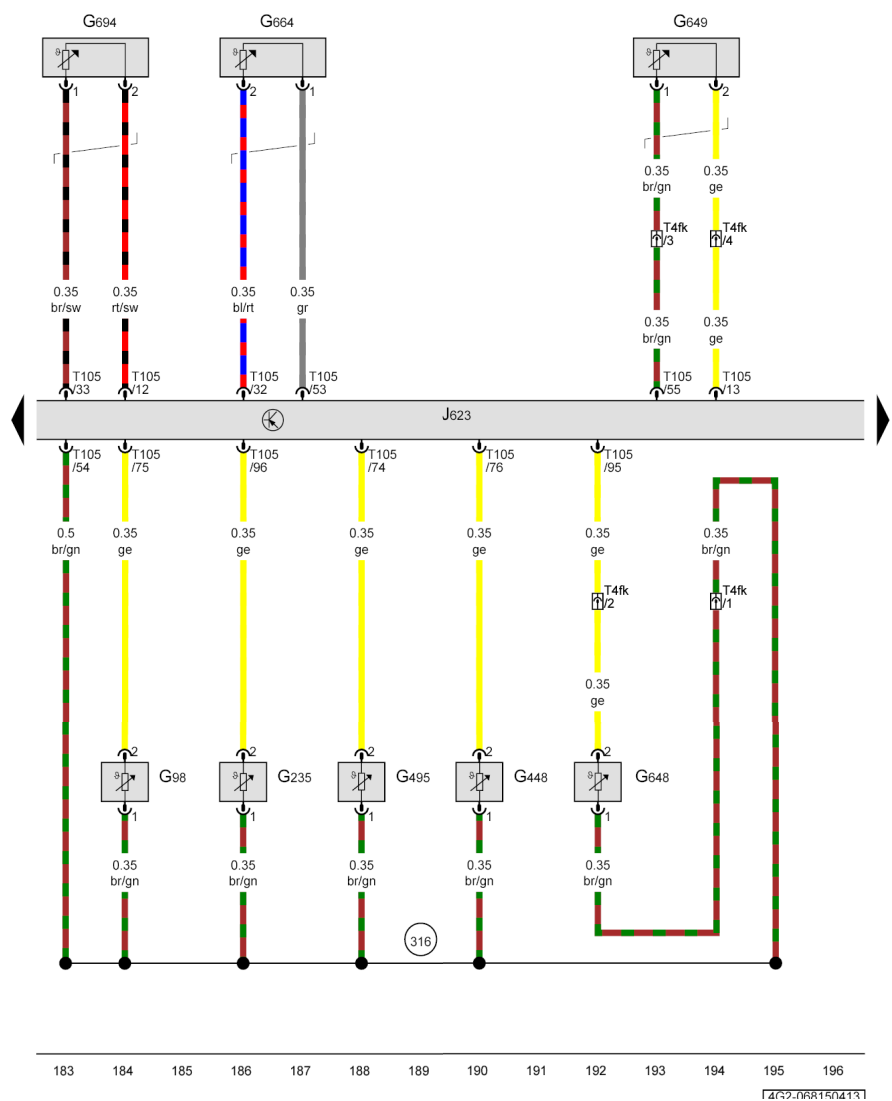
- F22 - Oil pressure switch
- F378 - Oil pressure switch for reduced oil pressure
- G28 - Engine speed sender
- G40 - Hall sender
- G62 - Coolant temperature sender
- G81 - Fuel temperature sender
- G83 - Radiator outlet coolant temperature sender
- J623 - Engine control unit
- T2e - 2-pin connector
- T2fz - 2-pin connector
- T2ga - 2-pin connector
- T2gb - 2-pin connector
- T2gc - 2-pin connector
- T3a - 3-pin connector
- T3d - 3-pin connector
- T91 - 91-pin connector
- T105 - 105-pin connector
- 328 - Earth connection 2 (sender earth), in engine compartment wiring harness
- * - 2.6 bar
- *2 - 0.9 bar

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

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Current Flow Diagram

No. 68 / 15



Exhaust gas recirculation temperature sensor, Exhaust gas temperature sender 1, Exhaust gas temperature sender 4, Exhaust gas temperature sender 4 for bank 2, Oil temperature sender 2, Temperature sender for engine temperature regulation, Engine control unit

- G98 - Exhaust gas recirculation temperature sensor
- G235 - Exhaust gas temperature sender 1
- G448 - Exhaust gas temperature sender 2
- G495 - Exhaust gas temperature sender 3
- G648 - Exhaust gas temperature sender 4
- G649 - Exhaust gas temperature sender 4 for bank 2
- G664 - Oil temperature sender 2
- G694 - Temperature sender for engine temperature regulation
- J623 - Engine control unit
- T4fk - 4-pin connector, in engine compartment
- T105 - 105-pin connector
- 316 - Earth connection (sender earth 2) in engine wiring harness

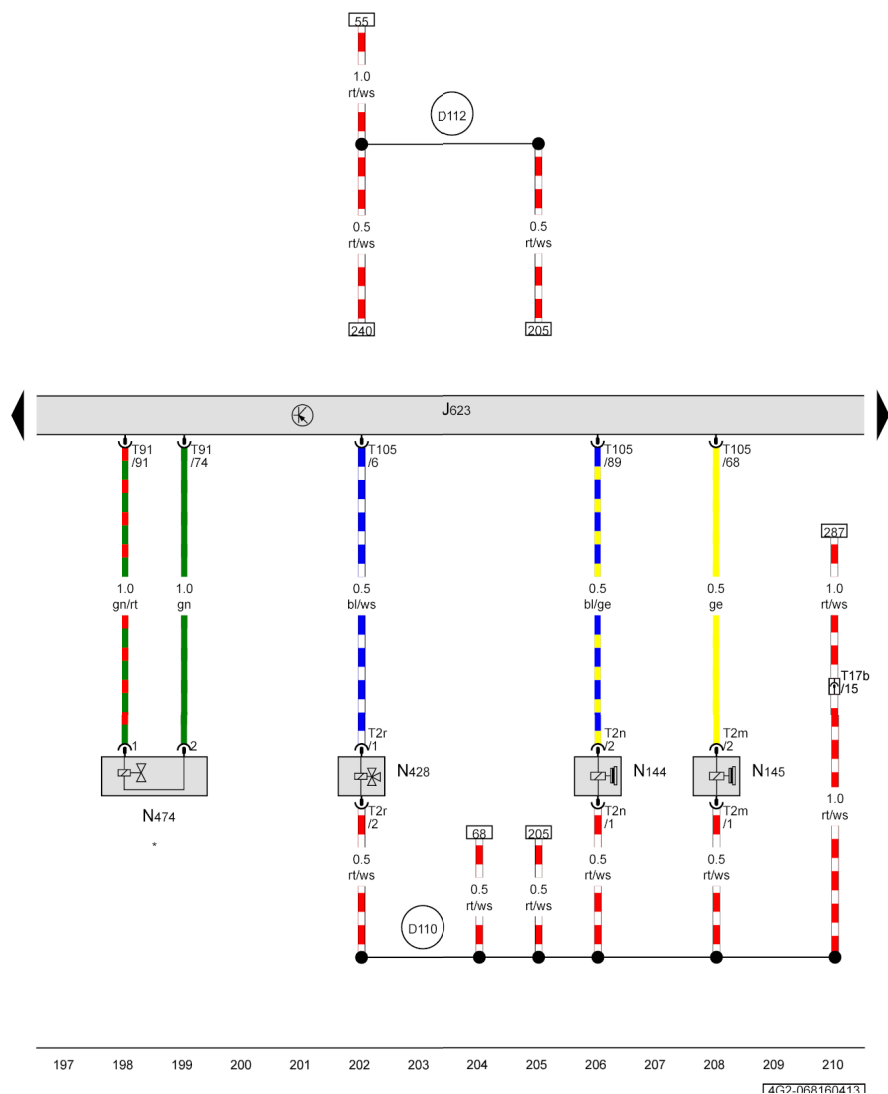
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- rs = pink

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Current Flow Diagram

No. 68 / 16



Engine control unit, Left electrohydraulic engine mounting solenoid valve, Valve for oil pressure control, Injector for reducing agent

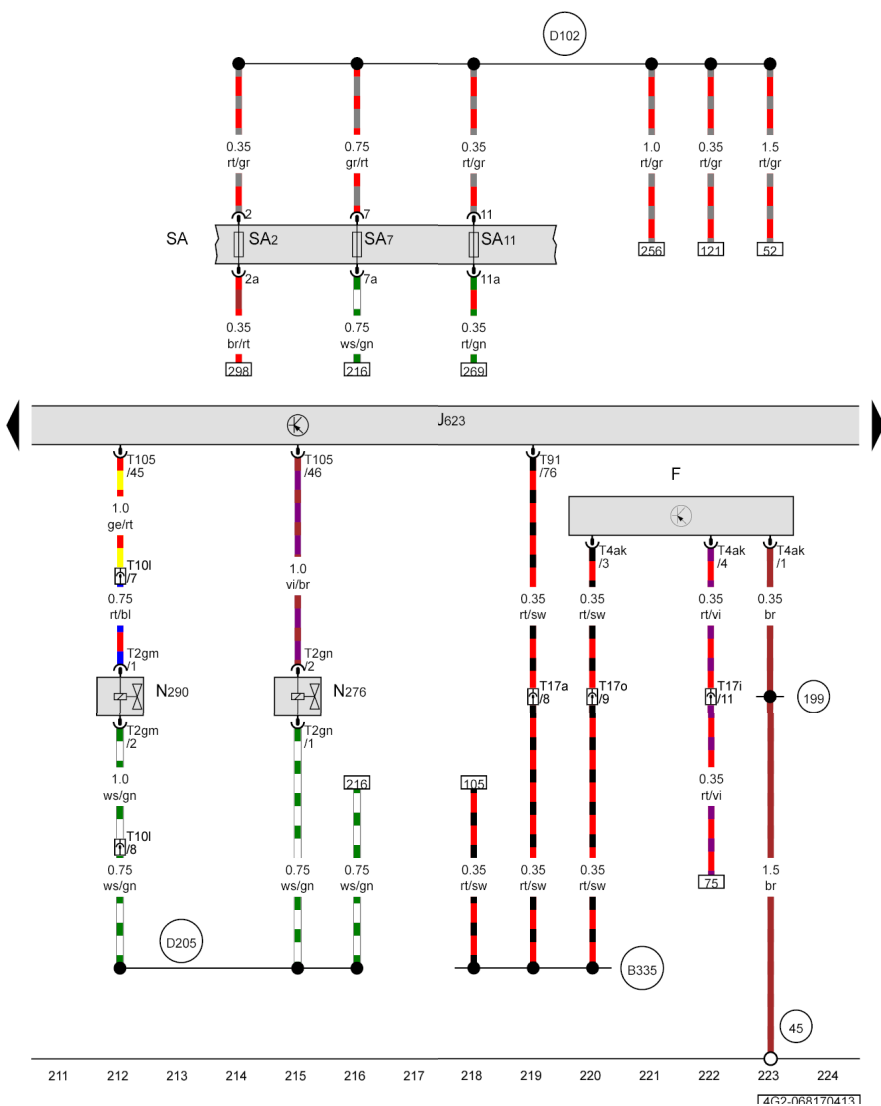
- J623 - Engine control unit
- N144 - Left electrohydraulic engine mounting solenoid valve
- N145 - Right electrohydraulic engine mounting solenoid valve
- N428 - Valve for oil pressure control
- N474 - Injector for reducing agent
- T2m - 2-pin connector
- T2n - 2-pin connector
- T2r - 2-pin connector
- T17b - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T91 - 91-pin connector
- T105 - 105-pin connector
- D110 - Connection 8 in engine compartment wiring harness
- D112 - Connection 10 in engine compartment wiring harness
- * - Only models with Euro 6 emission standard



Audi A6

Current Flow Diagram

No. 68 / 17



Brake light switch, Engine control unit, Fuel pressure regulating valve, Fuel metering valve

- F - Brake light switch
- J623 - Engine control unit
- N276 - Fuel pressure regulating valve
- N290 - Fuel metering valve
- SA - Fuse holder A
- SA2 - Fuse 2 in fuse holder A
- SA7 - Fuse 7 in fuse holder A
- SA11 - Fuse 11 in fuse holder A
- T2gm - 2-pin connector
- T2gn - 2-pin connector
- T4ak - 4-pin connector
- T10I - 10-pin connector, on right in engine compartment
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T17i - 17-pin connector, in left A-pillar coupling station
- T17o - 17-pin connector, in right A-pillar coupling station
- T91 - 91-pin connector
- T105 - 105-pin connector
- 45 - Earth point, centre behind dash panel
- 199 - Earth connection 3, in dash panel wiring harness
- B335 - Connection 1 (54), in main wiring harness
- D102 - Connection 2 in engine compartment wiring harness
- D205 - Connection 3 (87a) in engine prewiring harness

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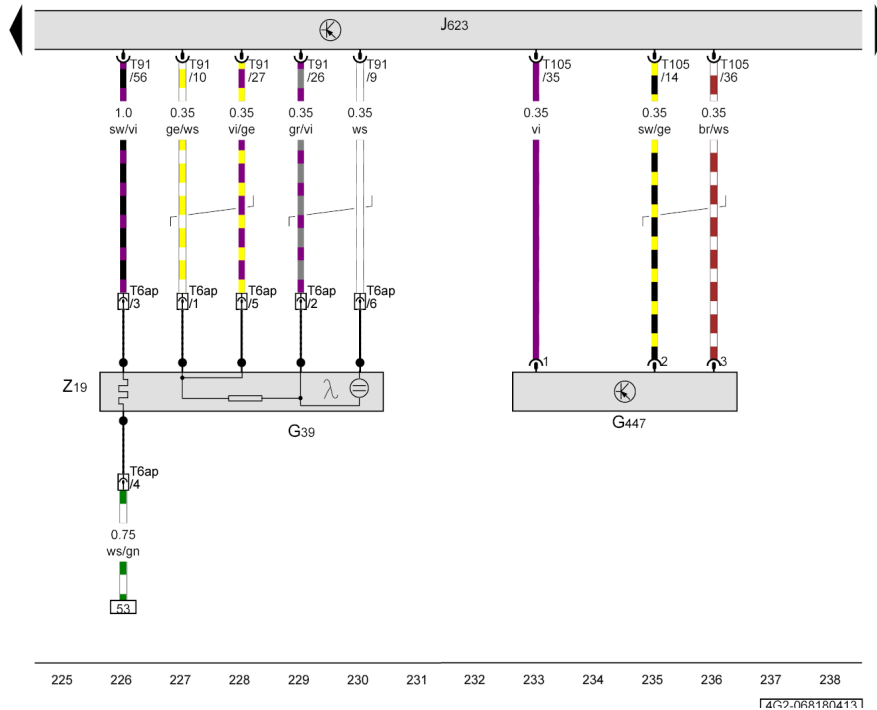
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Current Flow Diagram

No. 68 / 18

Lambda probe, Charge pressure sender 2, Engine control unit, Lambda probe heater

- G39 - Lambda probe
- G447 - Charge pressure sender 2
- J623 - Engine control unit
- T6ap - 6-pin connector, brown
- T91 - 91-pin connector
- T105 - 105-pin connector
- Z19 - Lambda probe heater




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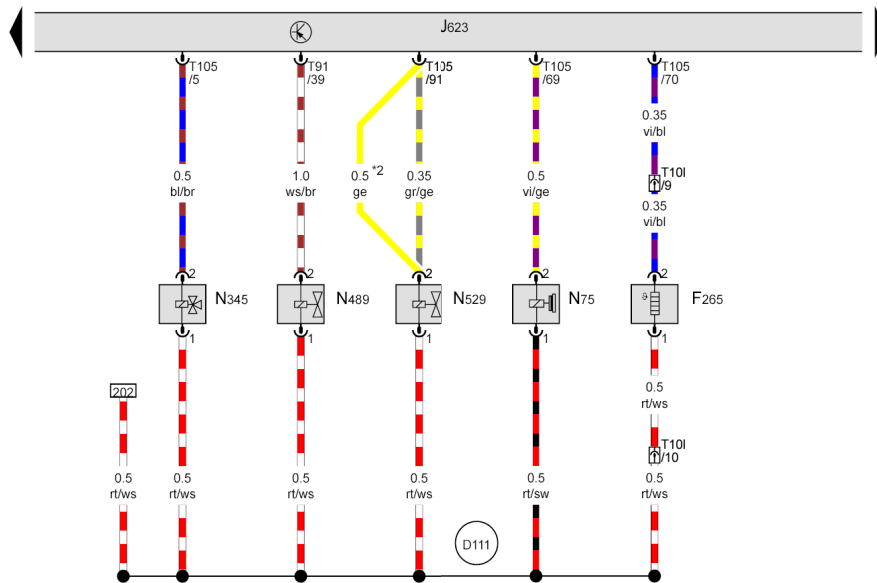
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Current Flow Diagram

No. 68 / 19

Map-controlled engine cooling system thermostat, Engine control unit, Charge pressure control solenoid valve, Exhaust gas recirculation cooler changeover valve, Coolant valve for cylinder head, Turbine changeover valve

- F265 - Map-controlled engine cooling system thermostat
- J623 - Engine control unit 
- N75 - Charge pressure control solenoid valve
- N345 - Exhaust gas recirculation cooler changeover valve
- N489 - Coolant valve for cylinder head
- N529 - Turbine changeover valve
- T101 - 10-pin connector, on right in engine compartment
- T91 - 91-pin connector
- T105 - 105-pin connector
- D111 - Connection 9 in engine compartment wiring harness



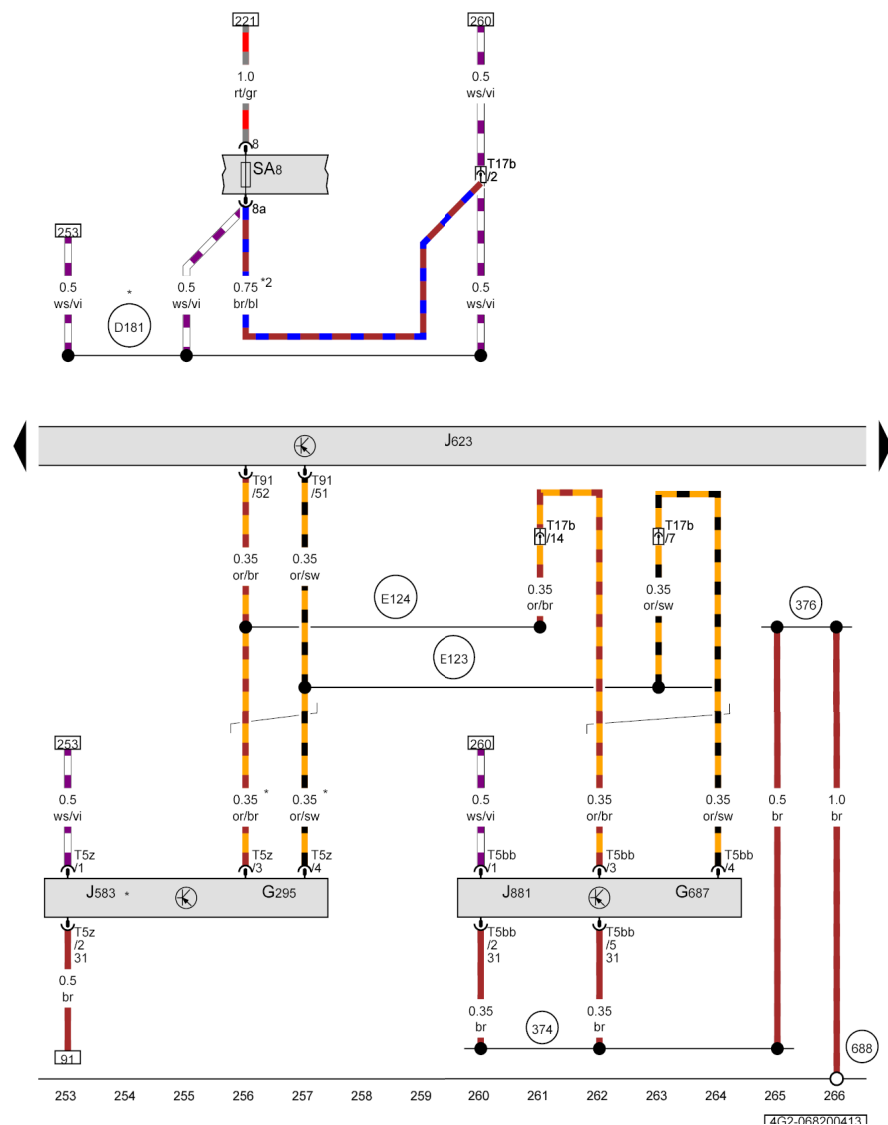
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- ge = yellow
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- * - Only models with automatic gearbox
- *2 - gradual introduction

Audi A6

Current Flow Diagram

No. 68 / 20



Control unit for NOx sender, Engine control unit, Control unit for NOx sender 2

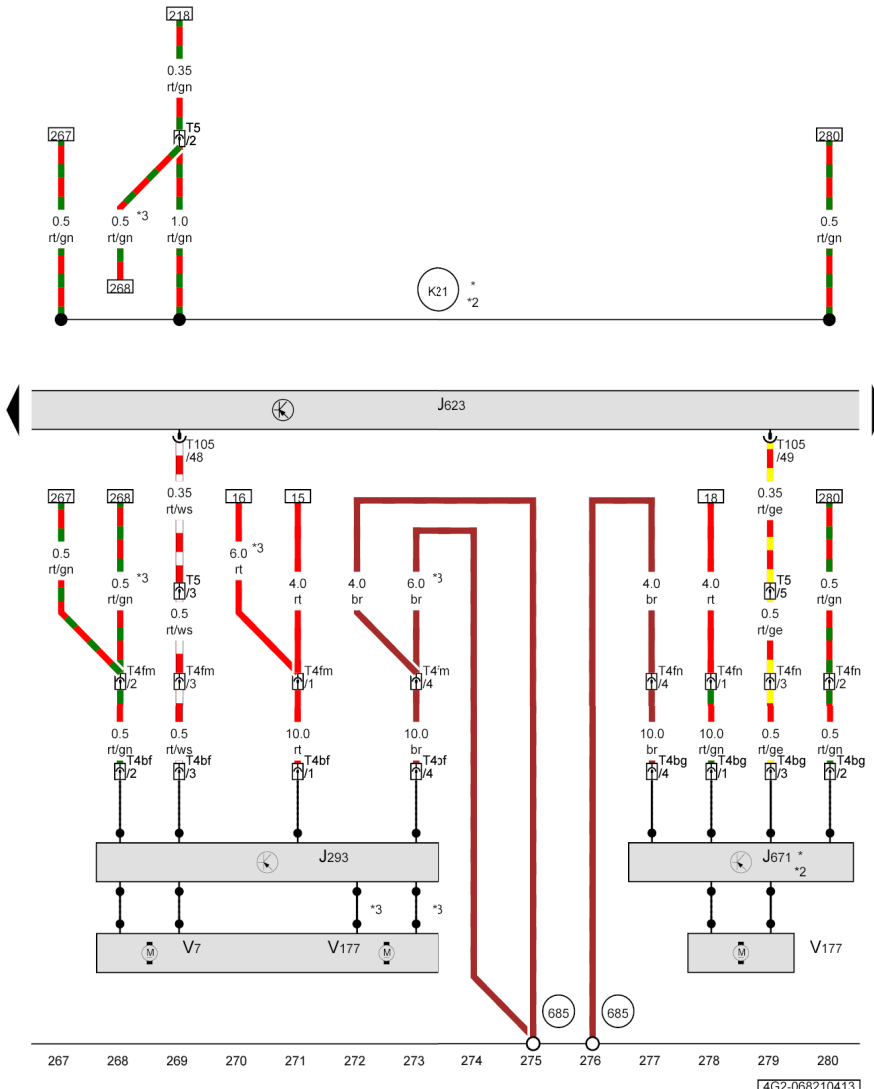
- G295 - NOx sender
- G687 - NOx sender 2
- J583 - Control unit for NOx sender
- J623 - Engine control unit
- J881 - Control unit for NOx sender 2
- SA8 - Fuse 8 in fuse holder A
- T5bb - 5-pin connector
- T5z - 5-pin connector
- T17b - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T91 - 91-pin connector
- 374 - Earth connection 9, in main wiring harness
- 376 - Earth connection 11, in main wiring harness
- 688 - Earth point 2, on centre tunnel
- D181 - Connection 2 (87a) in engine compartment wiring harness
- E123 - Connection 1 (powertrain CAN bus, high), in engine wiring harness
- E124 - Connection 1 (powertrain CAN bus, low), in engine wiring harness
- * - Only models with BIN5/ULEV emission standard
- *2 - Only models with Euro 6 emission standard

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 gr = grey
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 vi = purple
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Audi A6

Current Flow Diagram

No. 68 / 21



Radiator fan control unit, Engine control unit, Radiator fan control unit 2

- J293 - Radiator fan control unit
- J623 - Engine control unit
- J671 - Radiator fan control unit 2
- T4bf - 4-pin connector, on radiator fan
- T4bg - 4-pin connector, on radiator fan
- T4fm - 4-pin connector, near radiator fan
- T4fn - 4-pin connector, near radiator fan
- T5 - 5-pin connector, central in plenum chamber
- T105 - 105-pin connector
- V7 - Radiator fan
- V177 - Radiator fan 2
- 685 - Earth point 1 at front of right longitudinal member
- K21 - Connection 1, in radiator fan wiring harness
- * - Hot country version
- *2 - Only models with trailer socket
- *3 - Only models with Tiptronic

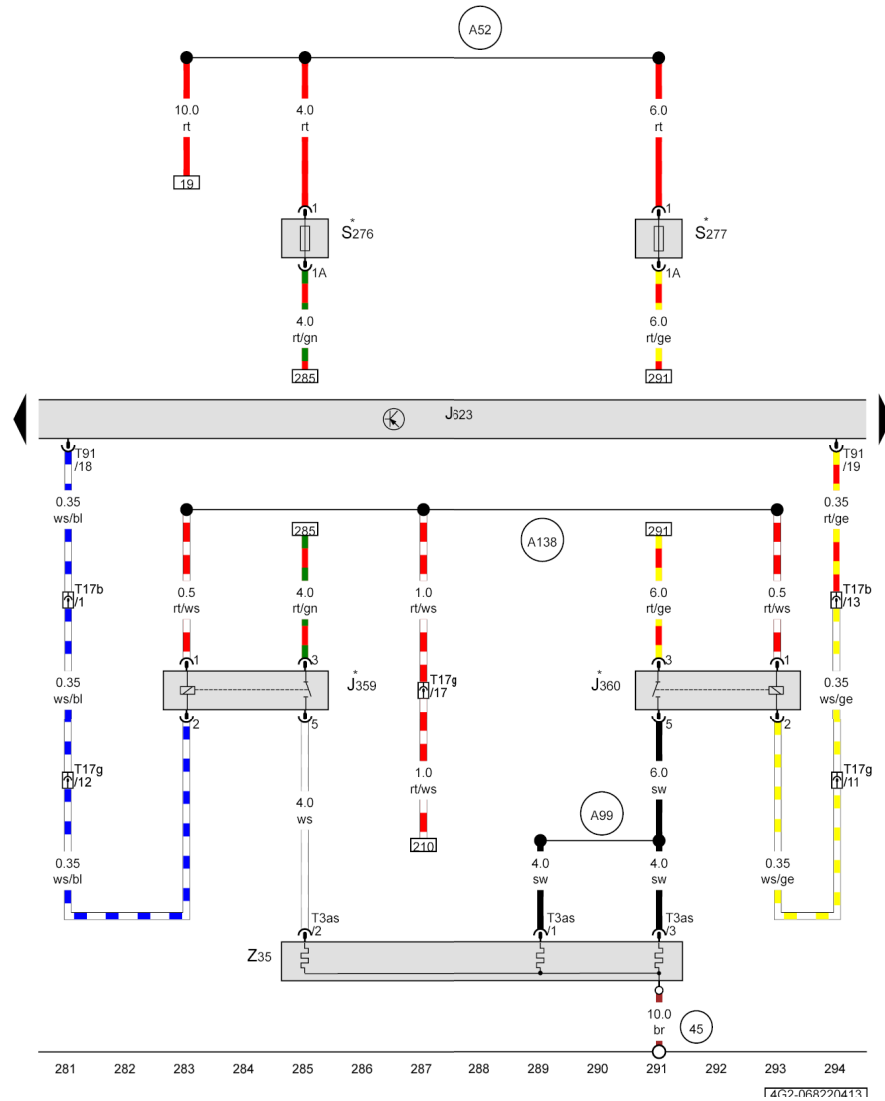


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Audi A6

Current Flow Diagram

No. 68 / 22



Low heat output relay, High heat output relay, Engine control unit, Auxiliary air heater element

- J359 - Low heat output relay
- J360 - High heat output relay
- J623 - Engine control unit
- S276 - Heater element fuse 1
- S277 - Heater element fuse 2
- T3as - 3-pin connector
- T17b - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T17g - 17-pin connector, in left A-pillar coupling station
- T91 - 91-pin connector
- Z35 - Auxiliary air heater element
- 45 - Earth point, centre behind dash panel
- A52 - Positive connection 2 (30), in dash panel wiring harness
- A99 - Connection 1 (87) in dash panel wiring harness
- A138 - Connection 2, in dash panel wiring harness
- * - Relay carrier on left under dash panel






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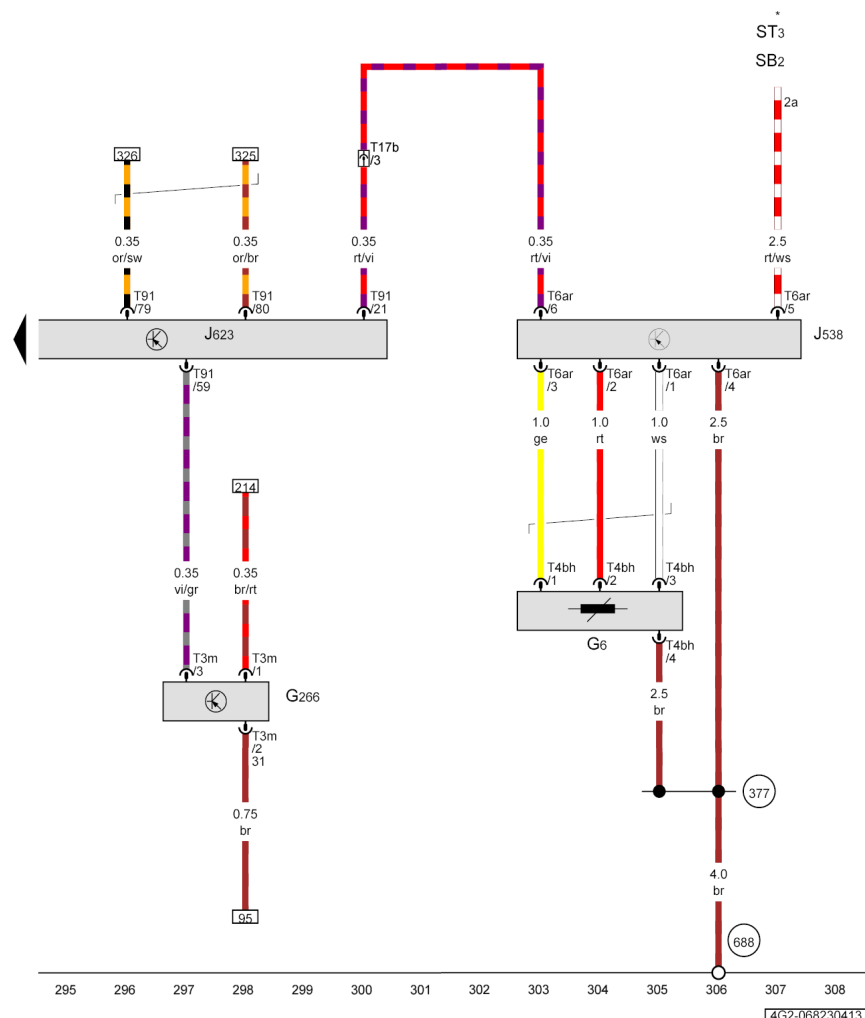
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Current Flow Diagram

No. 68 / 23

Fuel system pressurisation pump, Oil level and oil temperature sender, Fuel pump control unit, Engine control unit

- G6 - Fuel system pressurisation pump
- G266 - Oil level and oil temperature sender
- J538 - Fuel pump control unit 
- J623 - Engine control unit 
- SB2 - Fuse 2 on fuse holder B 
- ST3 - Fuse carrier 3
- T3m - 3-pin connector
- T4bh - 4-pin connector
- T6ar - 6-pin connector 
- T17b - 17-pin connector, Coupling station, E-box on left in plenum chamber 
- T91 - 91-pin connector
- 377 - Earth connection 12, in main wiring harness
- 688 - Earth point 2, on centre tunnel
- * - see applicable current flow diagram for fuse assignment

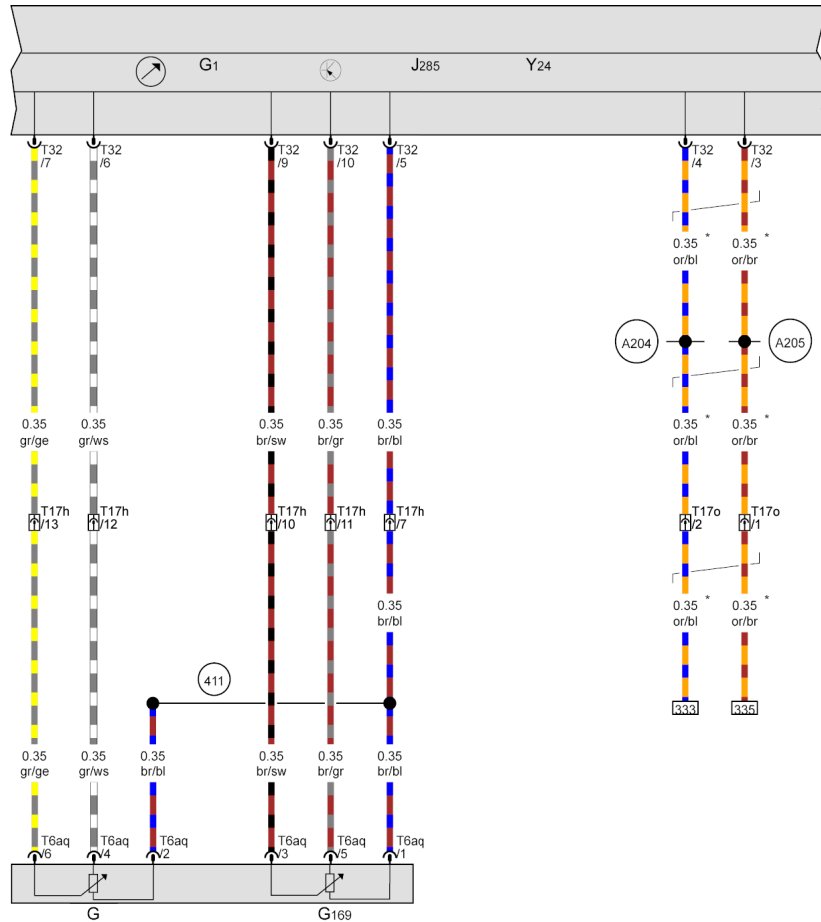


ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

Audi A6

Current Flow Diagram

No. 68 / 24



- Fuel gauge, Fuel gauge sender 2, Control unit in dash panel insert**
- G - Fuel gauge sender
 - G1 - Fuel gauge 📷
 - G169 - Fuel gauge sender 2
 - J285 - Control unit in dash panel insert 📷
 - T6aq - 6-pin connector
 - T17h - 17-pin connector, in left A-pillar coupling station 📷
 - T17o - 17-pin connector, in right A-pillar coupling station 📷
 - T32 - 32-pin connector 📷
 - Y24 - Display in dash panel insert 📷
 - 411 - Earth connection 2 (sender earth) in main wiring harness
 - A204 - Connection (dash panel insert CAN bus, high), in dash panel wiring harness
 - A205 - Connection (dash panel insert CAN bus, low), in dash panel wiring harness
 - * - Data bus wire (CAN bus)

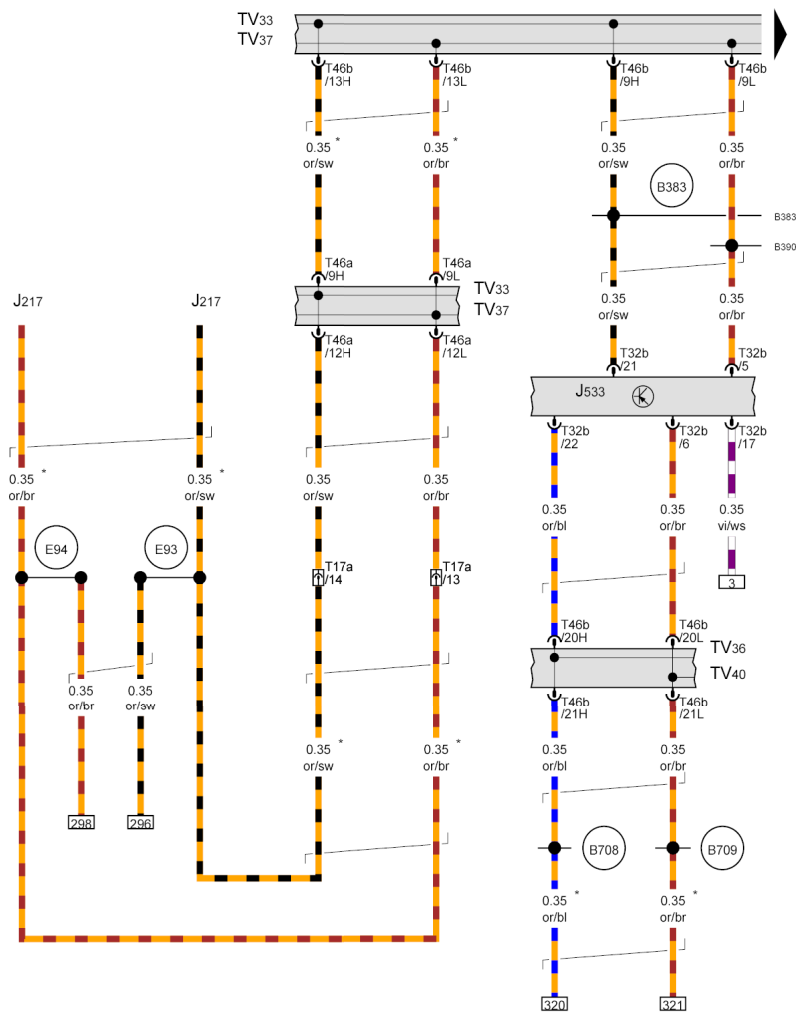
ws = white
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309 310 311 312 313 314 315 316 317 318 319 320 321 322
4452-NAR24d117

Audi A6

Current Flow Diagram

No. 68 / 25



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

Data bus diagnostic interface, Wiring junction for powertrain CAN bus, high, Wiring junction for dash panel insert CAN bus, high

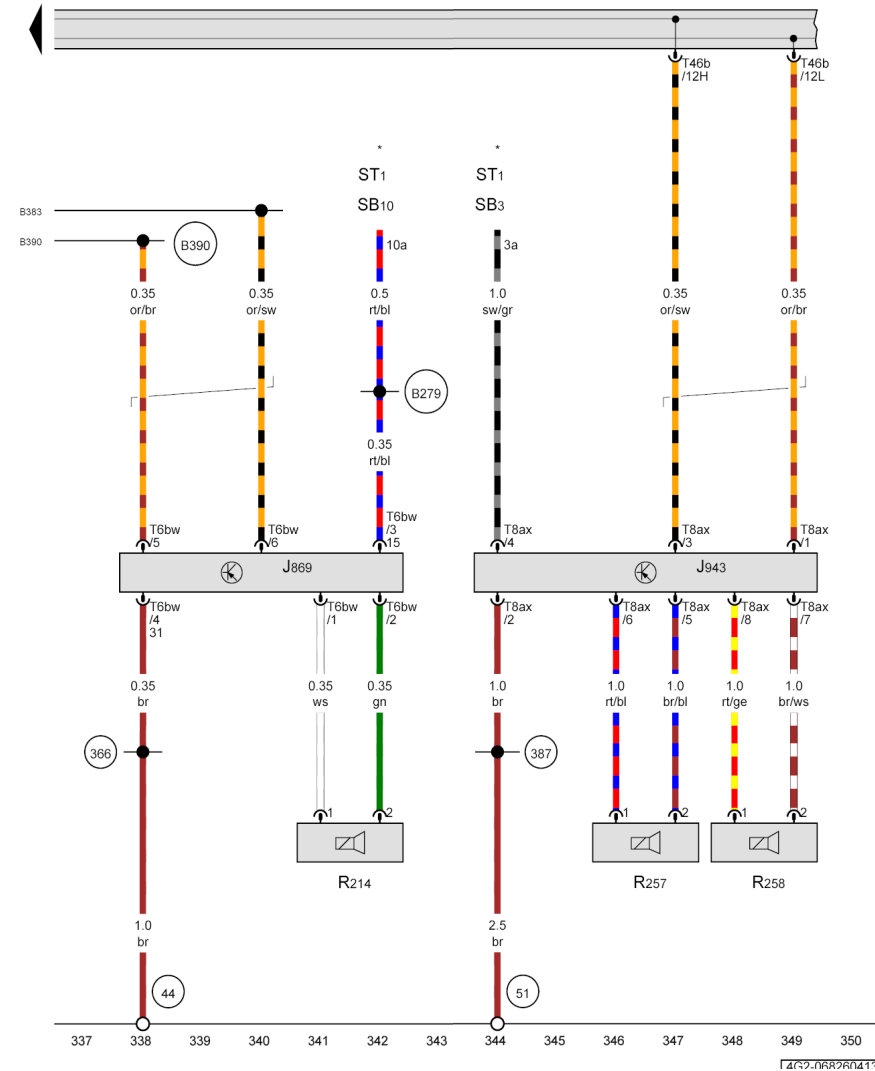
- J217 - Automatic gearbox control unit
- J533 - Data bus diagnostic interface
- T17a - 17-pin connector, Coupling station, E-box on left in plenum chamber
- T32b - 32-pin connector
- T46a - 46-pin connector
- T46b - 46-pin connector
- TV33 - Wiring junction for powertrain CAN bus, high
- TV36 - Wiring junction for dash panel insert CAN bus, high
- TV37 - Wiring junction for powertrain CAN bus, low
- TV40 - Wiring junction for dash panel insert CAN bus, low
- B383 - Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 - Connection 1 (powertrain CAN bus, low), in main wiring harness
- B708 - Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 - Connection 1 (dash panel insert CAN bus low) in main wiring harness
- E93 - Connection 1 (CAN bus high), in engine wiring harness
- E94 - Connection 1 (CAN bus low), in engine wiring harness
- * - Data bus wire (CAN bus)

323 324 325 326 327 328 329 330 331 332 333 334 335 336

Audi A6

Current Flow Diagram

No. 68 / 26



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 for structure-borne sound, Engine sound generator control unit, Actuator for structure-borne sound, Actuator 1 for engine sound generator

- J869 - Control unit for structure-borne sound
- J943 - Engine sound generator control unit
- R214 - Actuator for structure-borne sound
- R257 - Actuator 1 for engine sound generator
- R258 - Actuator 2 for engine sound generator
- ST1 - Fuse carrier 1
- SB3 - Fuse 3 on fuse holder B
- SB10 - Fuse 10 on fuse holder B
- T6bw - 6-pin connector
- T8ax - 8-pin connector
- T46b - 46-pin connector
- 44 - Earth point, lower part of left A-pillar
- 51 - Earth point, on right in luggage compartment
- 366 - Earth connection 1, in main wiring harness
- 387 - Earth connection 22, in main wiring harness
- B279 - Positive connection 3 (15a) in main wiring harness
- B383 - Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 - Connection 1 (powertrain CAN bus, low), in main wiring harness
- * - see applicable current flow diagram for fuse assignment