

Audi A4

Current Flow Diagram

No. 117 / 1

11.2011

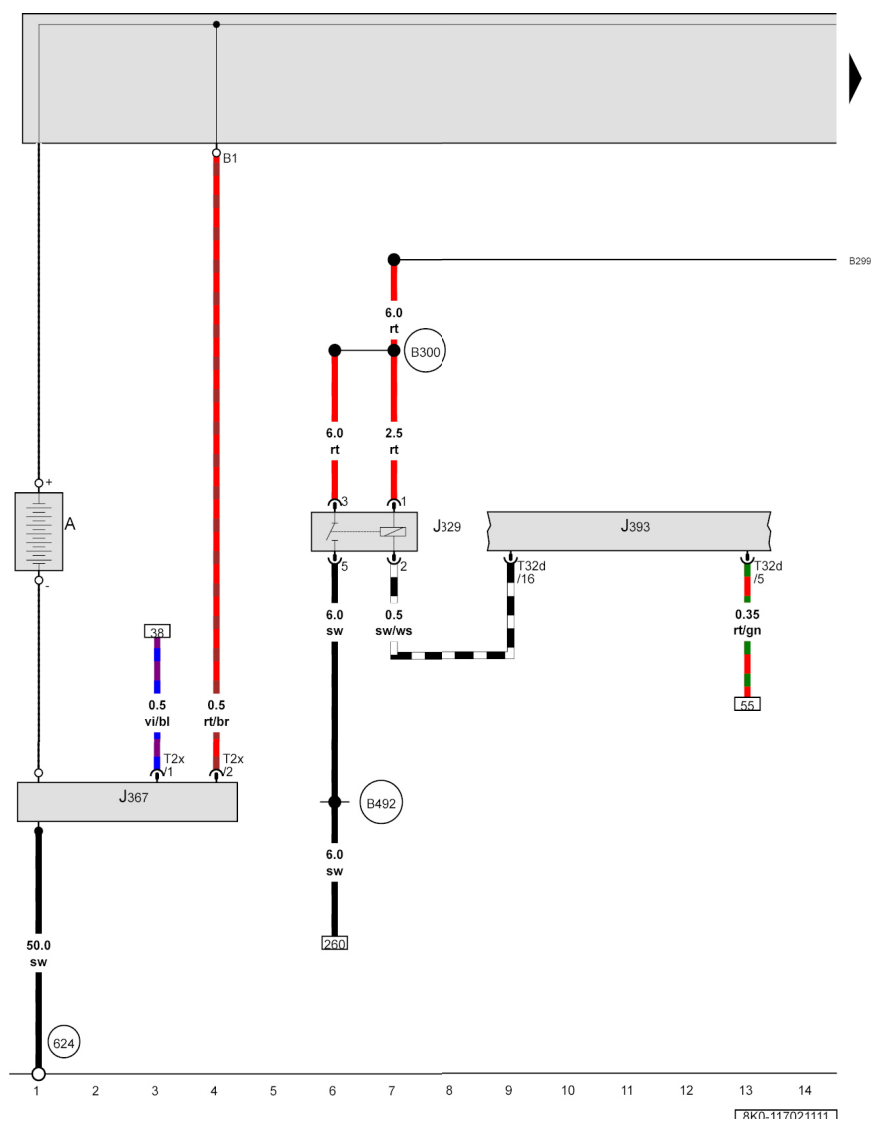
3.0l petrol engine , CGWC,CMUA

From November 2011

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Current Flow Diagram

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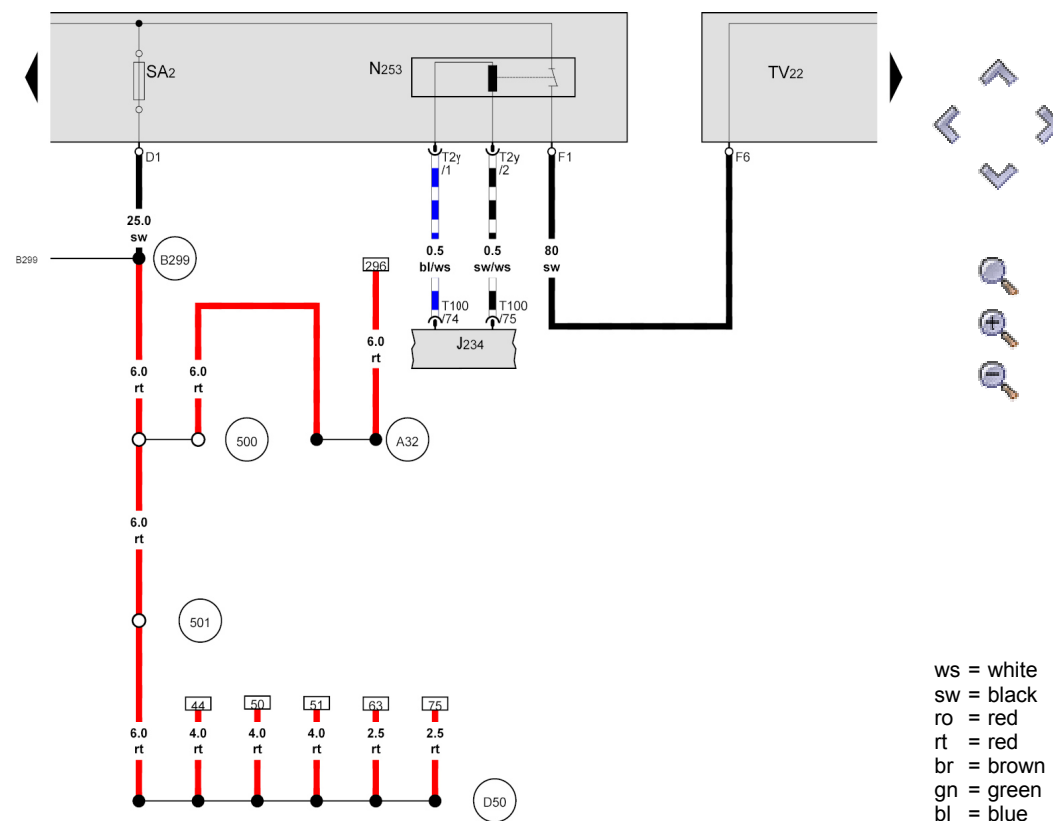
Battery, Terminal 15 voltage supply relay

- A - Battery
- J329 - Terminal 15 voltage supply relay
- J367 - Battery monitor control unit
- J393 - Convenience system central control unit
- T2x - 2-pin connector
- T32d - 32-pin connector
- 624 - Earth point, starter battery
- B299 - Positive connection 3 (30), in main wiring harness
- B300 - Positive connection 4 (30), in main wiring harness
- B492 - Positive connection 3 (15), in interior wiring harness












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Current Flow Diagram

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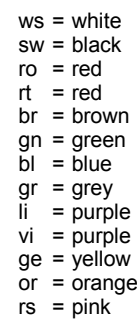










Battery isolation igniter, Terminal 30 wiring junction 2

- J234 - Airbag control unit  
- N253 - Battery isolation igniter  
- SA2 - Fuse 2 in fuse holder A  
- T2y - 2-pin connector
- TV22 - Terminal 30 wiring junction 2
- T100 - 100-pin connector 
- 500 - Threaded connection 1 (30), on relay plate  
- 501 - Threaded connection 2 (30), on relay plate  
- A32 - Positive connection (30), in dash panel wiring harness
- B299 - Positive connection 3 (30), in main wiring harness
- D50 - Positive connection (30), in engine compartment 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

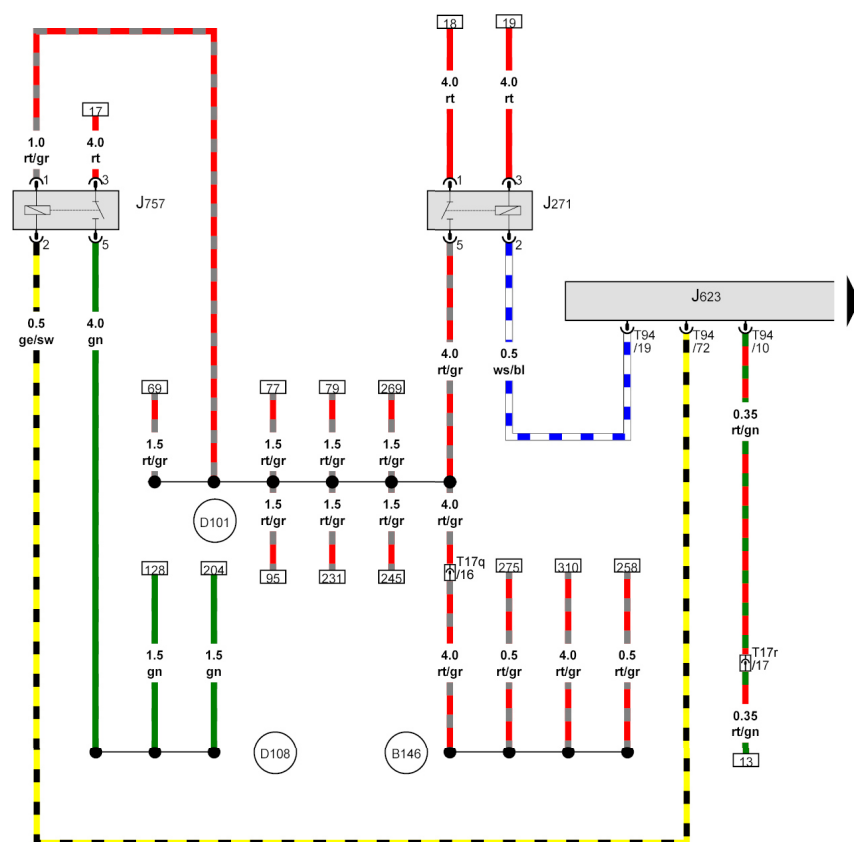
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- B - Starter
- C - Alternator
- C1 - Voltage regulator
- C24 - Suppression filter
- J500 - Power steering control unit
- S204 - Fuse 1 (30)  
- S205 - Fuse 2 (30)  
- S206 - Fuse 3 (30)
- T2n - 2-pin connector
- T5l - 5-pin connector, in engine compartment
- T17e - 17-pin connector, red  
- T17r - 17-pin connector, white  
- TV22 - Terminal 30 wiring junction 2
- U6 - Jump start socket
- B698 - Connection 3 (LIN bus) in main wiring harness
- D75 - Positive connection 2 (30), in engine compartment wiring harness
- * - see applicable current flow diagram for radiator fan













* - see applicable current flow diagram for radiator fan

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ws = white
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 or = orange
 rs = pink

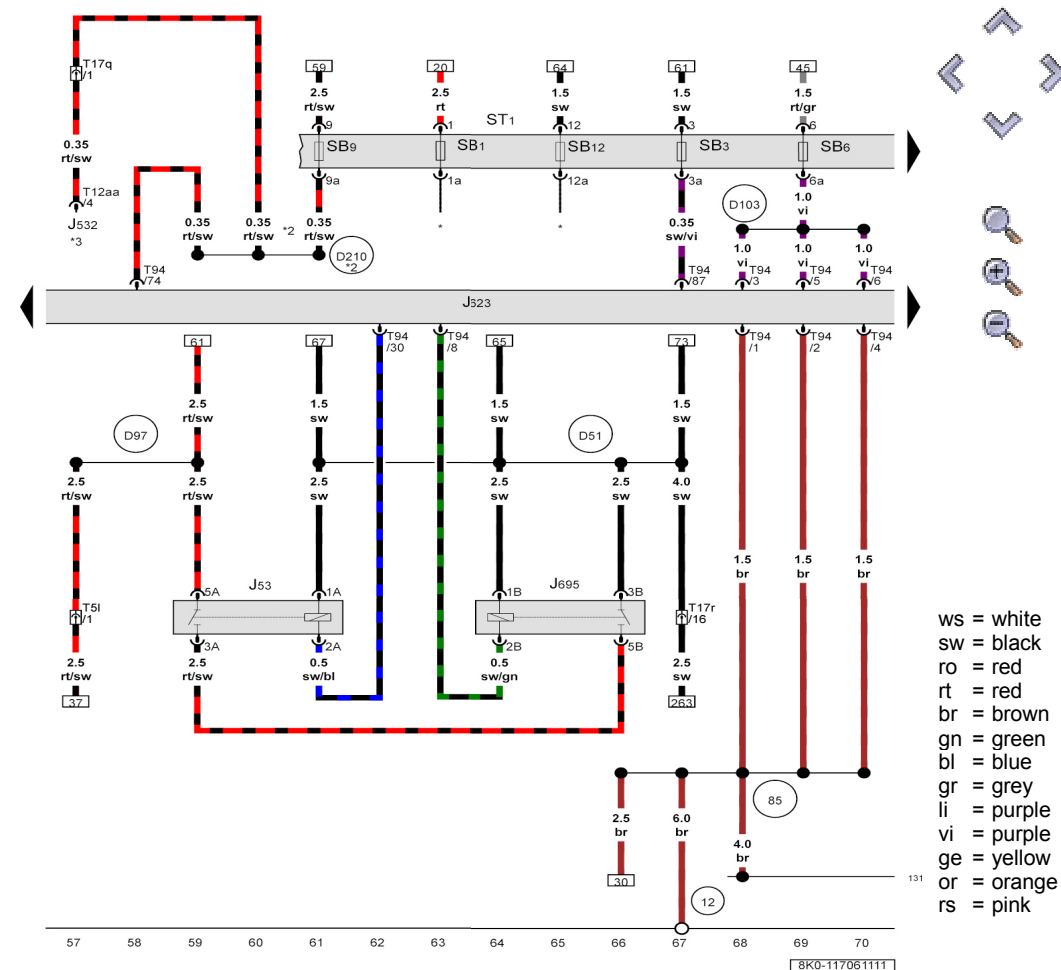
Main relay, Engine component current supply relay

- J271 - Main relay  
- J623 - Engine control unit  
- J757 - Engine component current supply relay  
- T17q - 17-pin connector, red  
- T17r - 17-pin connector, white  
- T94 - 94-pin connector  
- B146 - Positive connection 1 (87), in interior wiring harness
- D101 - Connection 1 in engine compartment wiring harness
- D108 - Connection 6 in engine compartment wiring harness

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Current Flow Diagram

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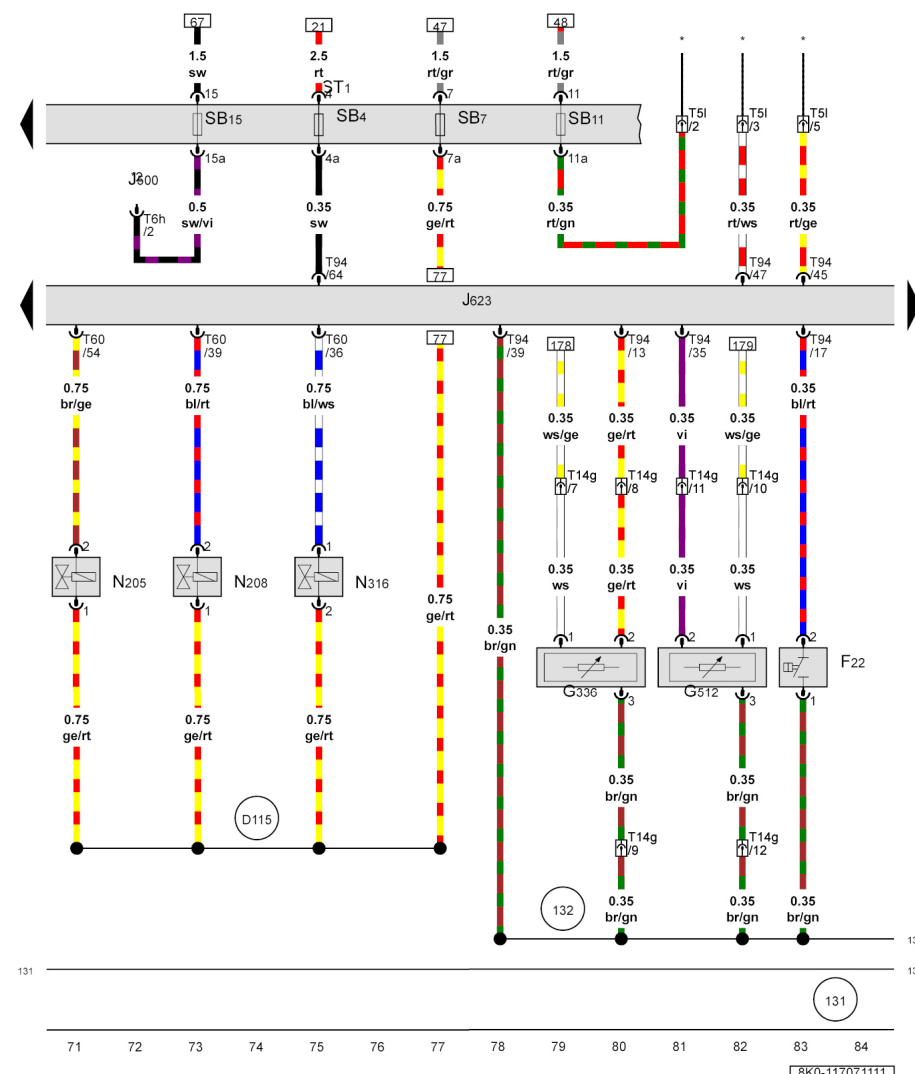
Starter motor relay, Starter motor relay 2

- J53 - Starter motor relay
- J532 - Voltage stabiliser
- J623 - Engine control unit
- J695 - Starter motor relay 2
- ST1 - Fuse carrier 1
- SB1 - Fuse 1 on fuse holder B
- SB3 - Fuse 3 on fuse holder B
- SB6 - Fuse 6 on fuse holder B
- SB9 - Fuse 9 on fuse holder B
- SB12 - Fuse 12 on fuse holder B
- T5l - 5-pin connector, in engine compartment
- T12aa - 12-pin connector
- T17q - 17-pin connector, red
- T17r - 17-pin connector, white
- T94 - 94-pin connector
- 12 - Earth point, on left in engine compartment
- 85 - Earth connection 1, in engine compartment wiring harness
- 131 - Earth connection 2, in engine compartment wiring harness
- D51 - Positive connection 1 (15), in engine compartment wiring harness
- D97 - Connection (50), in engine compartment right wiring harness
- D103 - Connection 3 in engine compartment wiring harness
- D210 - Connection (50), in engine compartment wiring harness
- * - see applicable current flow diagram for automatic gearbox
- *2 - Only models with start/stop system
- *3 - See applicable current flow diagram for start/stop system

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Current Flow Diagram

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

Oil pressure switch, Intake manifold flap potentiometer, Intake manifold flap potentiometer 2, Camshaft control valve 1, Camshaft control valve 2

- F22 - Oil pressure switch
- G336 - Intake manifold flap potentiometer
- G512 - Intake manifold flap potentiometer 2
- J500 - Power steering control unit
- J623 - Engine control unit
- N205 - Camshaft control valve 1
- N208 - Camshaft control valve 2
- N316 - Intake manifold flap valve
- ST1 - Fuse carrier 1
- SB4 - Fuse 4 on fuse holder B
- SB7 - Fuse 7 on fuse holder B
- SB11 - Fuse 11 on fuse holder B
- SB15 - Fuse 15 on fuse holder B
- T5l - 5-pin connector, in engine compartment
- T6h - 6-pin connector
- T14g - 14-pin connector, on right in engine compartment
- T60 - 60-pin connector
- T94 - 94-pin connector
- 131 - Earth connection 2, in engine compartment wiring harness
- 132 - Earth connection 3, in engine compartment wiring harness
- D115 - Connection 13 in engine compartment wiring harness
- * - see applicable current flow diagram for radiator fan
- *2 - see applicable current flow diagram













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Current Flow Diagram

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Gear detection sensor, Coolant circulation pump, Continued coolant circulation pump, Charge air cooling pump

- G604 - Gear detection sensor
 - J496 - Additional coolant pump relay  
 - J623 - Engine control unit  
 - ST1 - Fuse carrier 1
 - SB16 - Fuse 16 on fuse holder B  
 - T17q - 17-pin connector, red  
 - T60 - 60-pin connector  
 - T94 - 94-pin connector  
 - V50 - Coolant circulation pump
 - V51 - Continued coolant circulation pump
 - V188 - Charge air cooling pump
 - 131 - Earth connection 2, in engine compartment wiring harness
 - 132 - Earth connection 3, in engine compartment wiring harness
 - D111 - Connection 9 in engine compartment wiring harness
- * - Only models with continued coolant circulation pump
- *2 - see applicable current flow diagram for air conditioning

ws = white
sw = black
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gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

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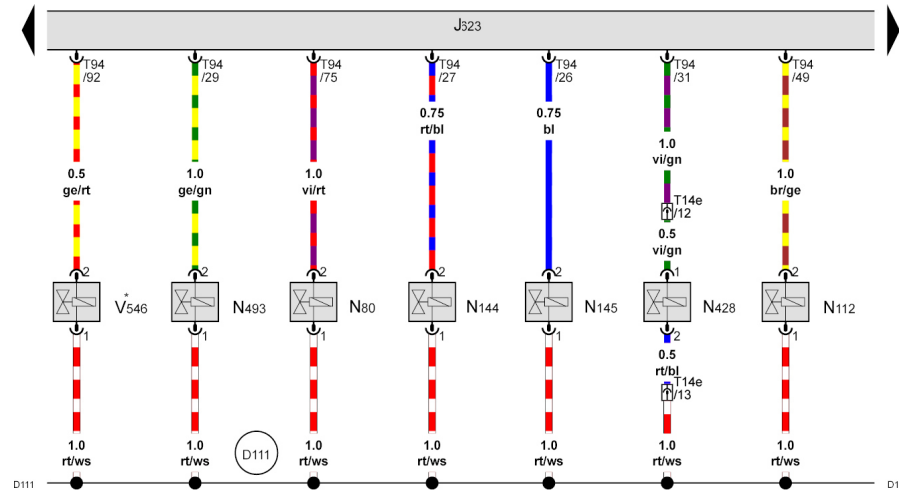
Current Flow Diagram

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Activated charcoal filter solenoid valve 1, Secondary air inlet valve, Left electrohydraulic engine mounting solenoid valve, Right electrohydraulic engine mounting solenoid valve, Valve for oil pressure control

- J623 - Engine control unit
- N80 - Activated charcoal filter solenoid valve 1
- N112 - Secondary air inlet valve
- N144 - Left electrohydraulic engine mounting solenoid valve
- N145 - Right electrohydraulic engine mounting solenoid valve
- N428 - Valve for oil pressure control
- N493 - Actuator for engine temperature regulation
- T14e - 14-pin connector, on left in engine compartment
- T94 - 94-pin connector
- V546 - Crankcase breather valve
- D111 - Connection 9 in engine compartment wiring harness

* - If fitted



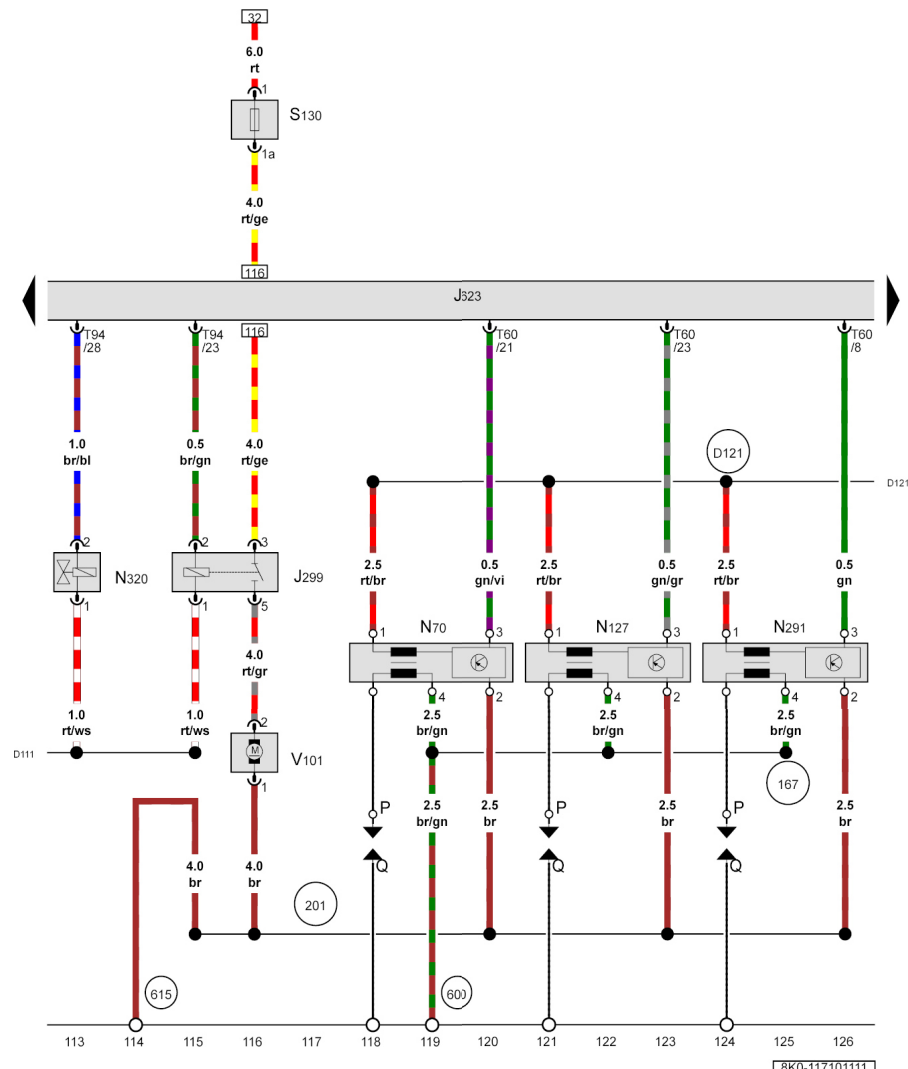
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99 100 101 102 103 104 105 106 107 108 109 110 111 112
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Current Flow Diagram

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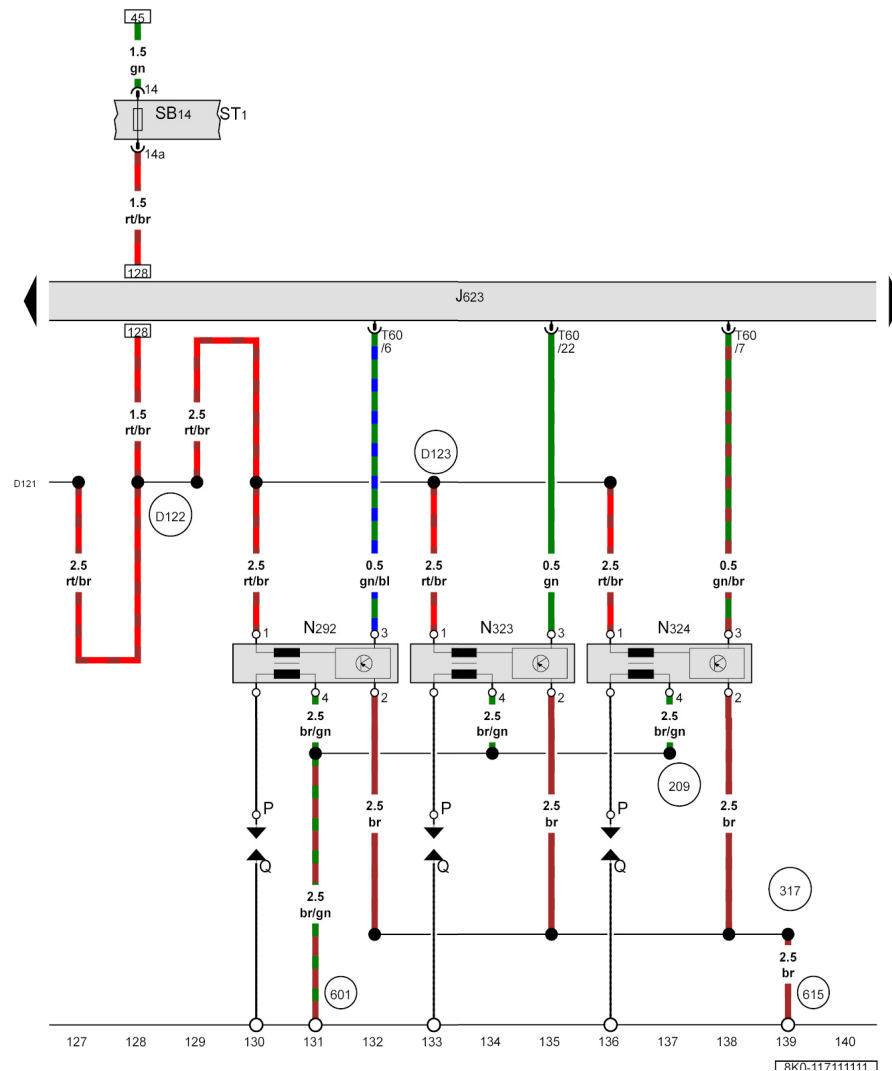
Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 with output stage, Secondary air inlet valve 2

- J299 - Secondary air pump relay
- J623 - Engine control unit
- N70 - Ignition coil 1 with output stage
- N127 - Ignition coil 2 with output stage
- N291 - Ignition coil 3 with output stage
- N320 - Secondary air inlet valve 2
- P - Spark plug connector
- Q - Spark plugs
- S130 - Secondary air pump fuse
- T60 - 60-pin connector
- T94 - 94-pin connector
- V101 - Secondary air pump motor
- 167 - Earth connection 4, in engine compartment wiring harness
- 201 - Earth connection 5, in engine compartment wiring harness
- 600 - Earth point, on right cylinder head
- 615 - Earth point, on left suspension strut
- D111 - Connection 9 in engine compartment wiring harness
- D121 - Connection 19 in engine compartment wiring harness

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Current Flow Diagram

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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

Ignition coil 4 with output stage, Ignition coil 5 with output stage, Ignition coil 6 with output stage

- J623 - Engine control unit
- N292 - Ignition coil 4 with output stage
- N323 - Ignition coil 5 with output stage
- N324 - Ignition coil 6 with output stage
- P - Spark plug connector
- Q - Spark plugs
- ST1 - Fuse carrier 1
- SB14 - Fuse 14 on fuse holder B
- T60 - 60-pin connector
- 209 - Earth connection 6, in engine compartment wiring harness
- 317 - Earth connection 7, in engine compartment wiring harness
- 601 - Earth point, on left cylinder head
- 615 - Earth point, on left suspension strut
- D121 - Connection 19 in engine compartment wiring harness
- D122 - Connection 20 in engine compartment wiring harness
- D123 - Connection 21 in engine compartment wiring harness

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Current Flow Diagram

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

D124 - Connection 22 in engine compartment wiring harness

200 - Earth connection (screening), in engine compartment wiring harness









D124 - Connection 22 in engine compartment wiring harness

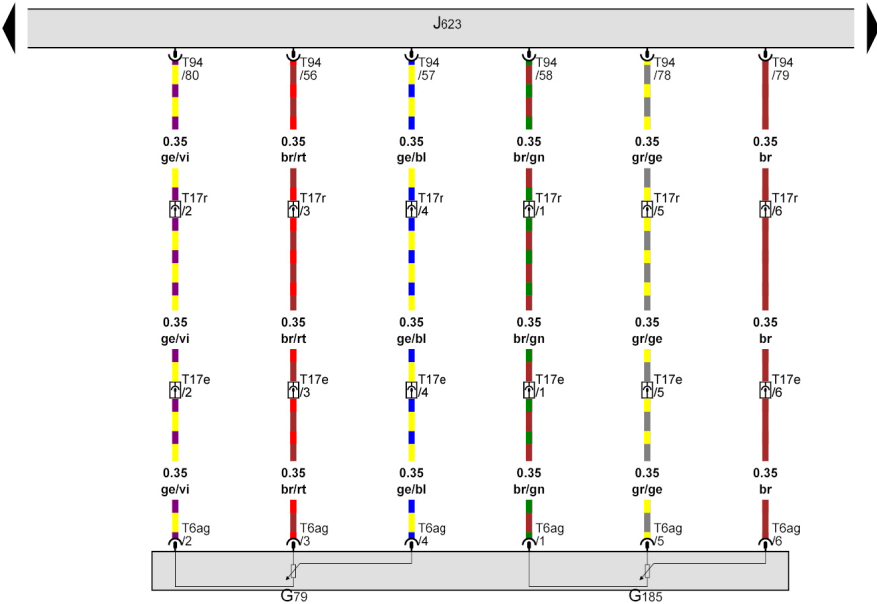
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Current Flow Diagram

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Accelerator position sender, Accelerator position sender 2

- G79 - Accelerator position sender
- G185 - Accelerator position sender 2
- J623 - Engine control unit  
- T6ag - 6-pin connector
- T17e - 17-pin connector, green  
- T17r - 17-pin connector, white  
- T94 - 94-pin connector  



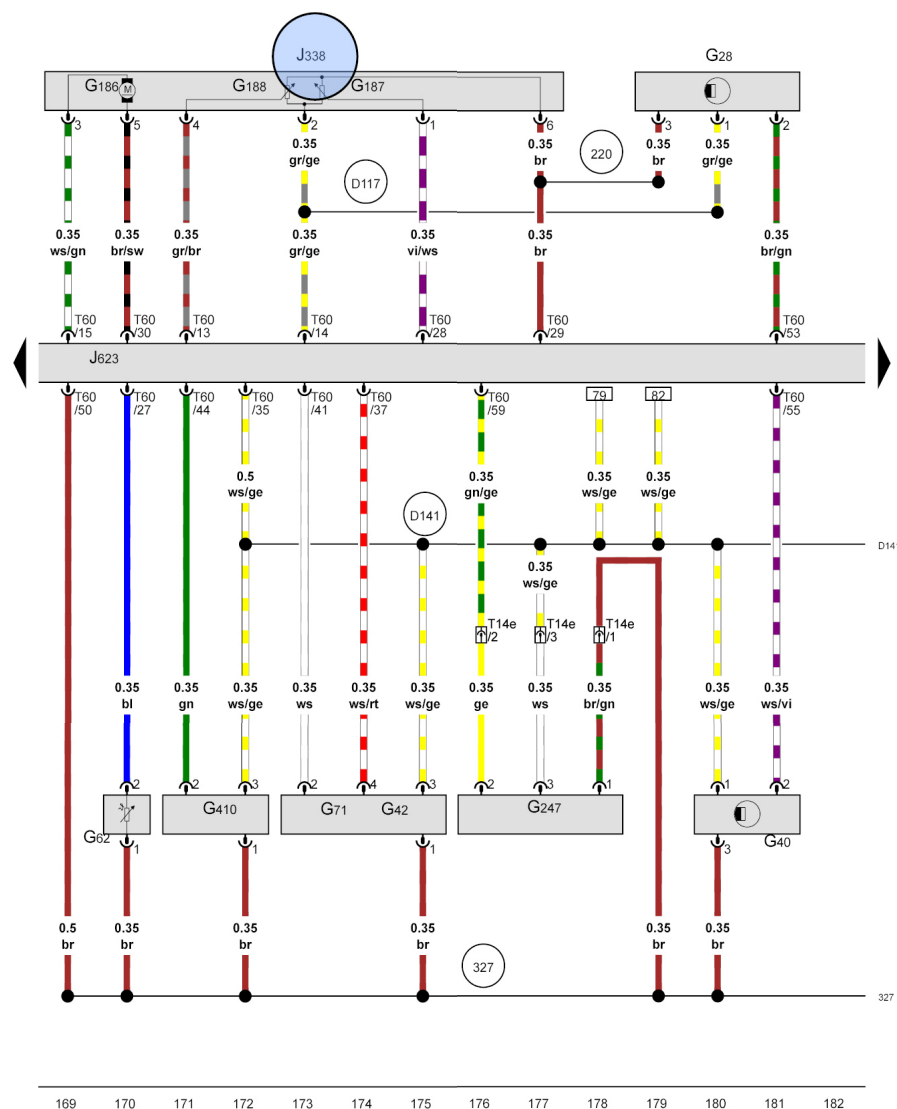
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gr = grey
li = purple
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rs = pink

155 156 157 158 159 160 161 162 163 164 165 166 167 168
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Current Flow Diagram

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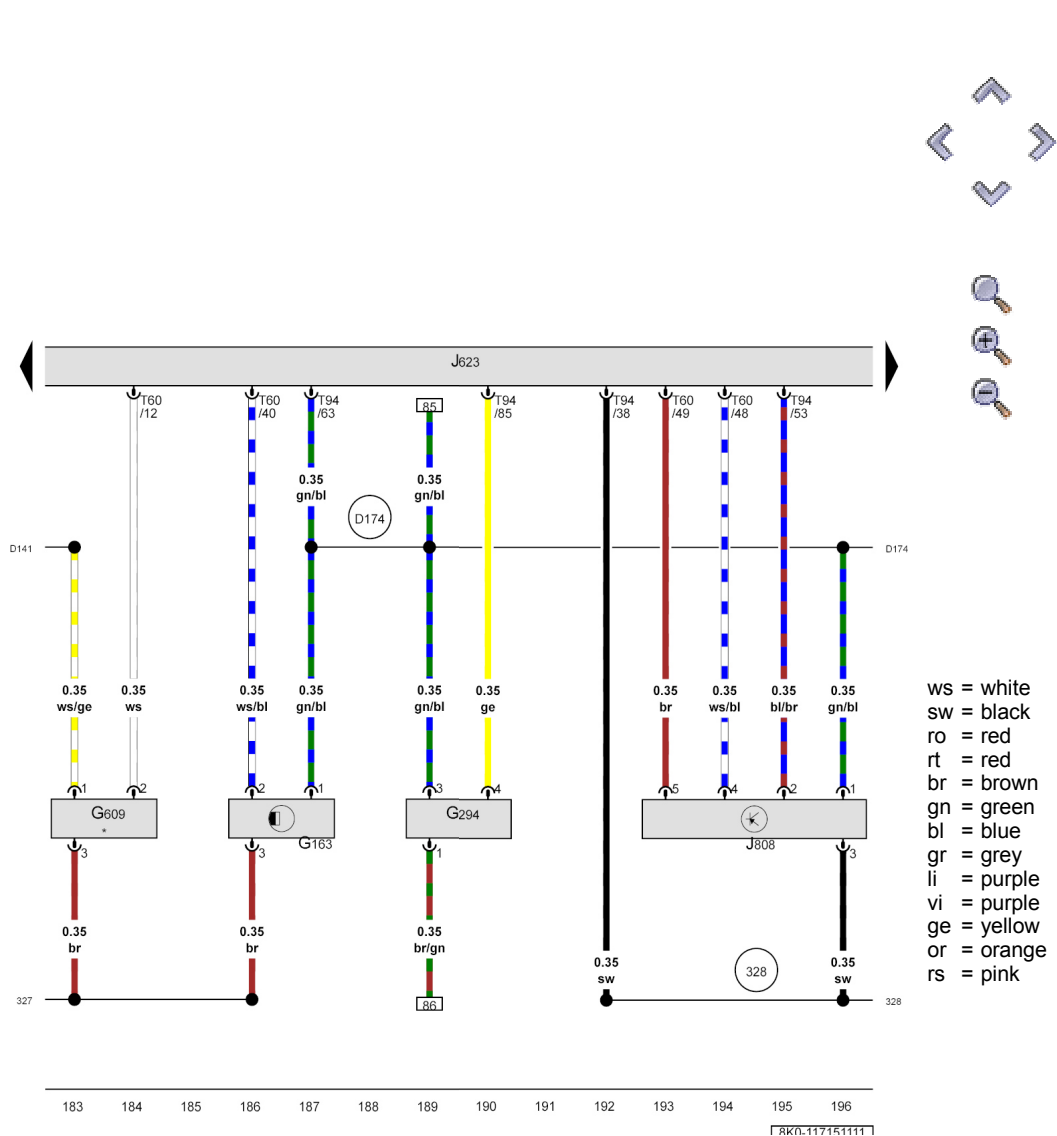
Engine speed sender, Hall sender, Coolant temperature sender, Fuel pressure sender, Throttle valve module

- G28 - Engine speed sender
- G40 - Hall sender
- G42 - Intake air temperature sender
- G62 - Coolant temperature sender
- G71 - Intake manifold pressure sender
- G186 - Throttle valve drive for electric throttle
- G187 - Throttle valve drive angle sender 1 for electric throttle
- G188 - Throttle valve drive angle sender 2 for electric throttle
- G247 - Fuel pressure sender
- G410 - Fuel pressure sender for low-pressure
- J338** - Throttle valve module
- J623 - Engine control unit
- T14e - 14-pin connector, on left in engine compartment
- T60 - 60-pin connector
- 220 - Earth connection (sender earth), in engine wiring harness
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- D117 - Connection 15 in engine compartment wiring harness
- D141 - Connection (5V) in engine prewiring harness

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Current Flow Diagram

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- Hall sender 2, Brake servo pressure sensor, Regulating flap control unit**
- G163 - Hall sender 2
 - G294 - Brake servo pressure sensor
 - G609 - Sender 1 for secondary air pressure
 - J623 - Engine control unit
 - J808 - Regulating flap control unit
 - T60 - 60-pin connector
 - T94 - 94-pin connector
 - 327 - Earth connection (sender earth), in engine compartment wiring harness
 - 328 - Earth connection 2 (sender earth), in engine compartment wiring harness
 - D141 - Connection (5V) in engine prewiring harness
 - D174 - Connection 2 (5V) in engine prewiring harness
 - * - Only models with US equipment

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Current Flow Diagram

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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

G31 - Charge pressure sender

- G31 - Charge pressure sender
 - G72 - Intake manifold temperature sender
 - G400 - Tank pressure sensor
 - G430 - Intake manifold temperature sender 2
 - G447 - Charge pressure sender 2
 - J623 - Engine control unit  
 - J909 - Control unit for fuel tank leak detection
 - N290 - Fuel metering valve
 - ST1 - Fuse carrier 1
 - ST2 - Fuse carrier 2
 - SB5 - Fuse 5 on fuse holder B  
 - SF12 - Fuse 12 in fuse holder F  
 - T14g - 14-pin connector, on right in engine compartment
 - T17q - 17-pin connector, red  
 - T60 - 60-pin connector  
 - T94 - 94-pin connector  
 - 328 - Earth connection 2 (sender earth), in engine compartment wiring harness
 - D174 - Connection 2 (5V) in engine prewiring harness
- * - Only models with fuel system diagnostic pump
- *2 - see applicable current flow diagram for fuse assignment

* - Only models with fuel system diagnostic pump

*2 - see applicable current flow diagram for fuse assignment

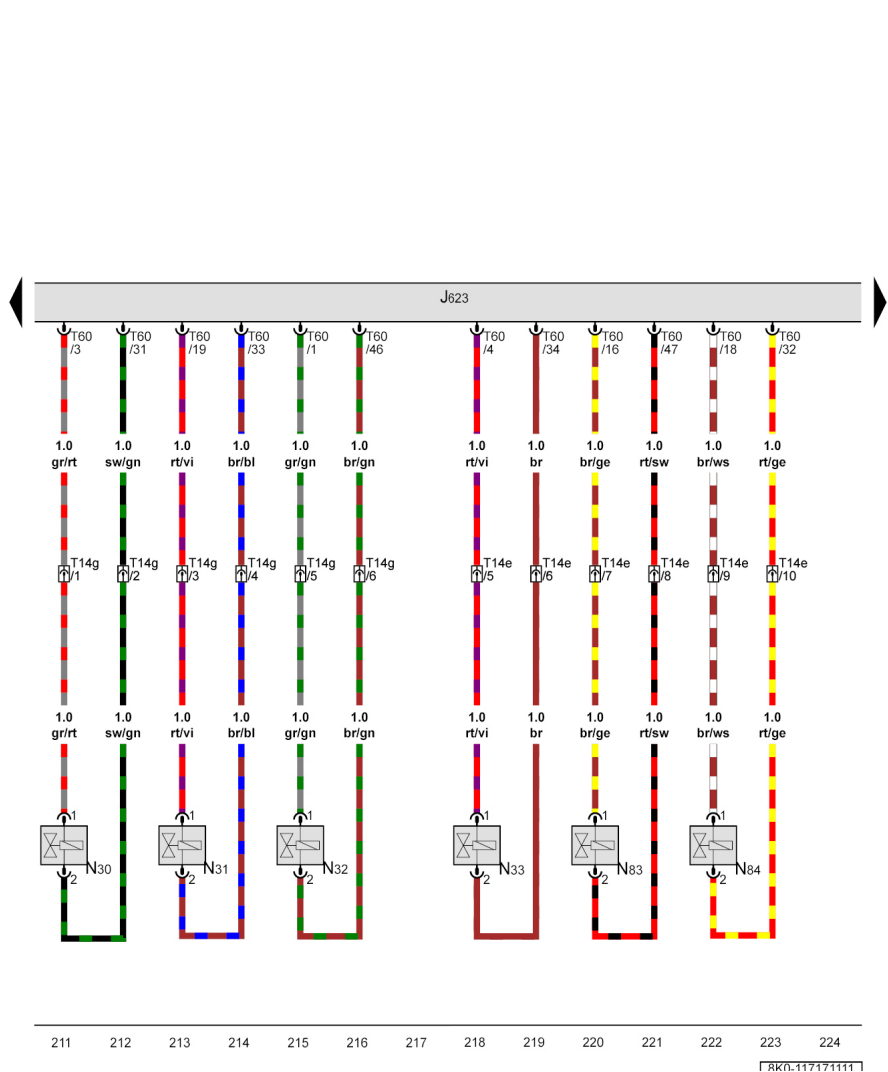
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Current Flow Diagram

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Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3,
Injector, cylinder 4, Injector, cylinder 5, Injector, cylinder 6

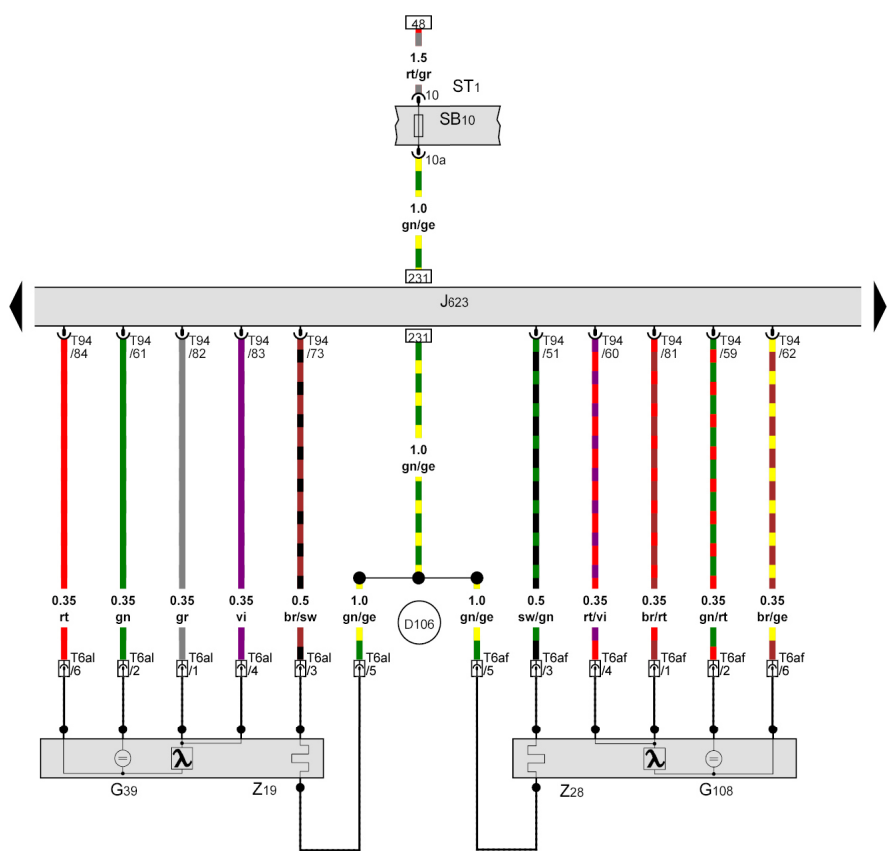
- J623 - Engine control unit
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- N83 - Injector, cylinder 5
- N84 - Injector, cylinder 6
- T14e - 14-pin connector, on left in engine compartment
- T14g - 14-pin connector, on right in engine compartment
- T60 - 60-pin connector



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Current Flow Diagram

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ws = white
sw = black
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rt = red
br = brown
gn = green
bl = blue
gr = grey
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ge = yellow
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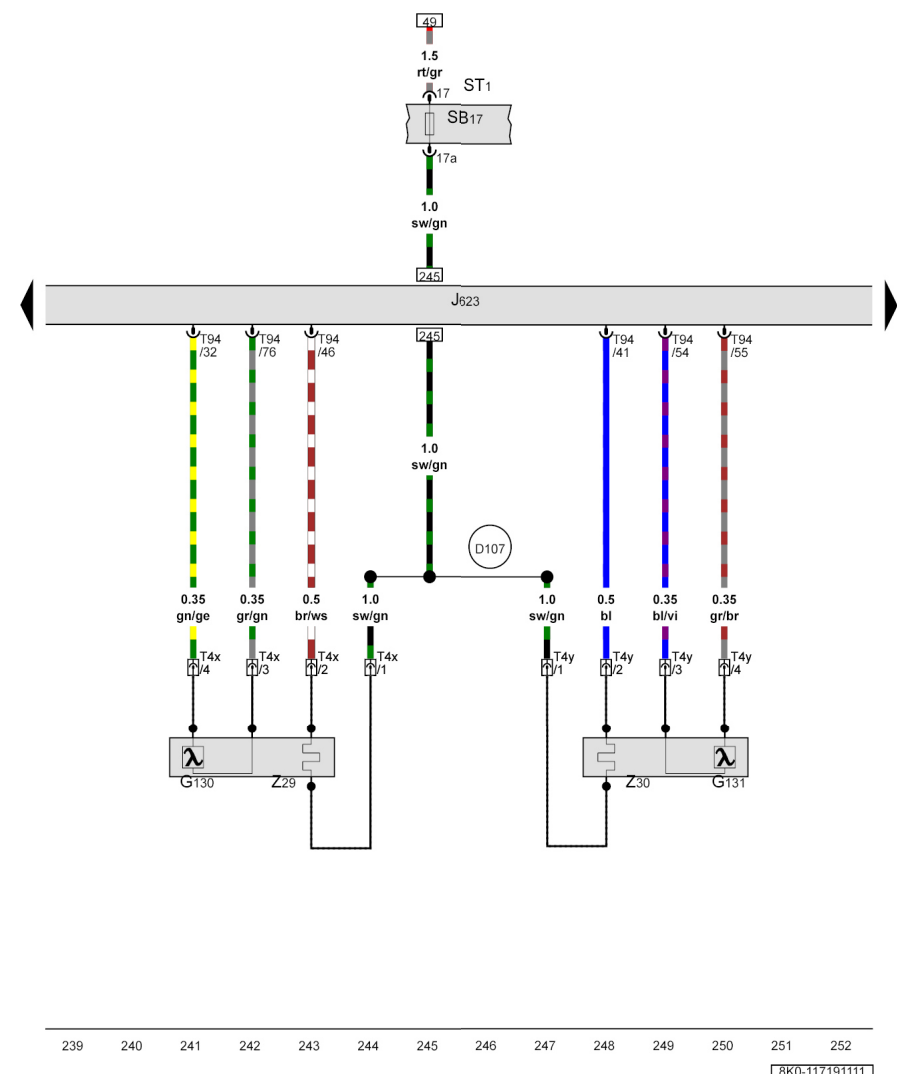
Lambda probe, Lambda probe 2

- G39 - Lambda probe
- G108 - Lambda probe 2
- J623 - Engine control unit
- ST1 - Fuse carrier 1
- SB10 - Fuse 10 on fuse holder B
- T6af - 6-pin connector, black
- T6al - 6-pin connector, black
- T94 - 94-pin connector
- Z19 - Lambda probe heater
- Z28 - Lambda probe heater 2
- D106 - Connection 4 in engine compartment wiring harness

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Current Flow Diagram

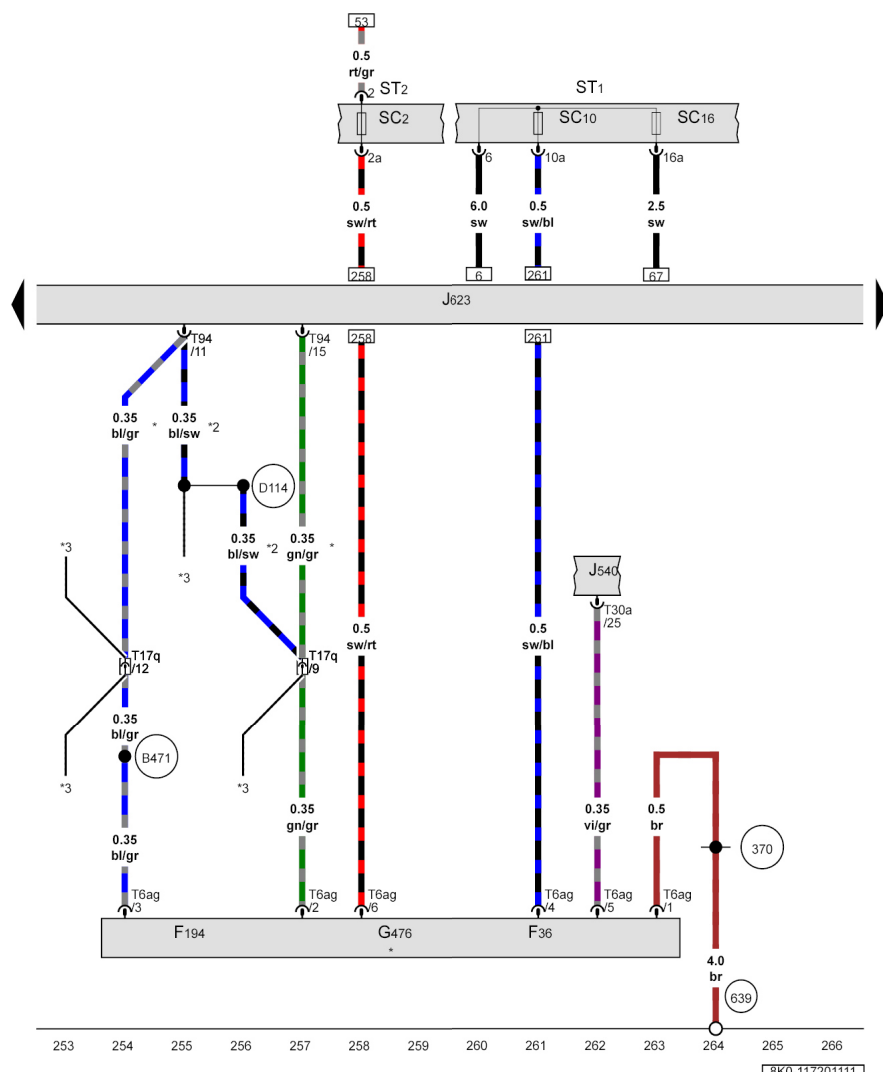
No. 117 / 19



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Current Flow Diagram

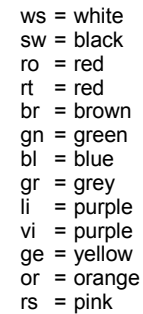
No. 117 / 20



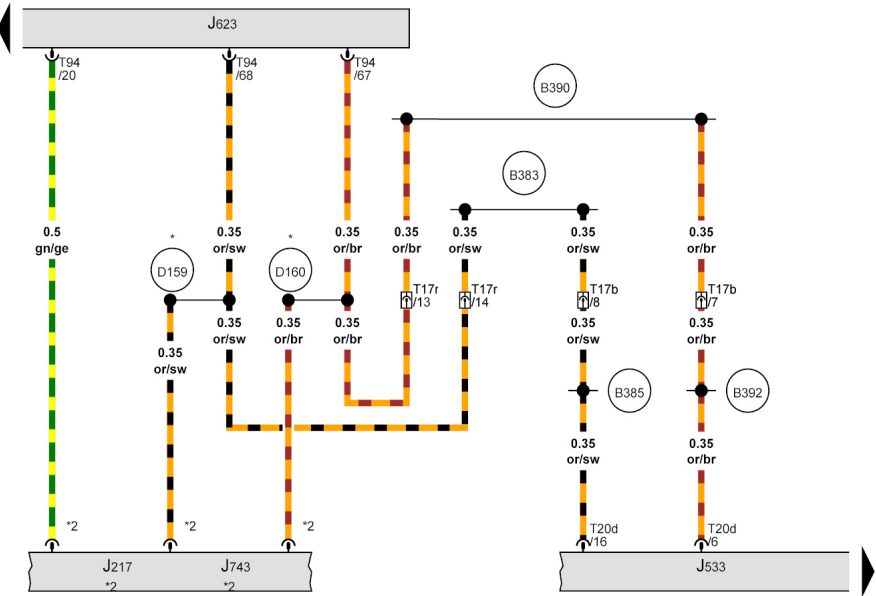
Clutch position sender

- F36 - Clutch pedal switch
- F194 - Clutch pedal switch for engine start
- G476 - Clutch position sender
- J540 - Control unit for electromechanical parking brake
- J623 - Engine control unit
- ST1 - Fuse carrier 1
- SC2 - Fuse 2 on fuse holder C
- ST2 - Fuse carrier 2
- SC10 - Fuse 10 on fuse holder C
- SC16 - Fuse 16 on fuse holder C
- T6ag - 6-pin connector
- T17q - 17-pin connector, red
- T30a - 30-pin connector
- T94 - 94-pin connector
- 370 - Earth connection 5, in main wiring harness
- 639 - Earth point, left A-pillar
- B471 - Connection 7, in main wiring harness
- D114 - Connection 12 in engine compartment wiring harness
- * - Only models with manual gearbox
- *2 - Only models with automatic gearbox
- *3 - see applicable current flow diagram for automatic gearbox

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- * - Solenoid coil for brake light sensor
- *2 - Only models with cruise control system (CCS)



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Data bus diagnostic interface


















- J217 - Automatic gearbox control unit
- J533 - Data bus diagnostic interface
- J623 - Engine control unit
- J743 - Mechatronic unit for dual clutch gearbox
- T17b - 17-pin connector, blue
- T17r - 17-pin connector, white
- T20d - 20-pin connector
- T94 - 94-pin connector
- B383 - Connection 1 (powertrain CAN bus, high), in main wiring harness
- B385 - Connection 3 (powertrain CAN bus, high), in main wiring harness
- B390 - Connection 1 (powertrain CAN bus, low), in main wiring harness
- B392 - Connection 3 (powertrain CAN bus, low), in main wiring harness
- D159 - Connection (high bus), in engine compartment wiring harness
- D160 - Connection (low bus), in engine compartment wiring harness
- * - Only models with automatic gearbox
- *2 - see applicable current flow diagram for automatic gearbox

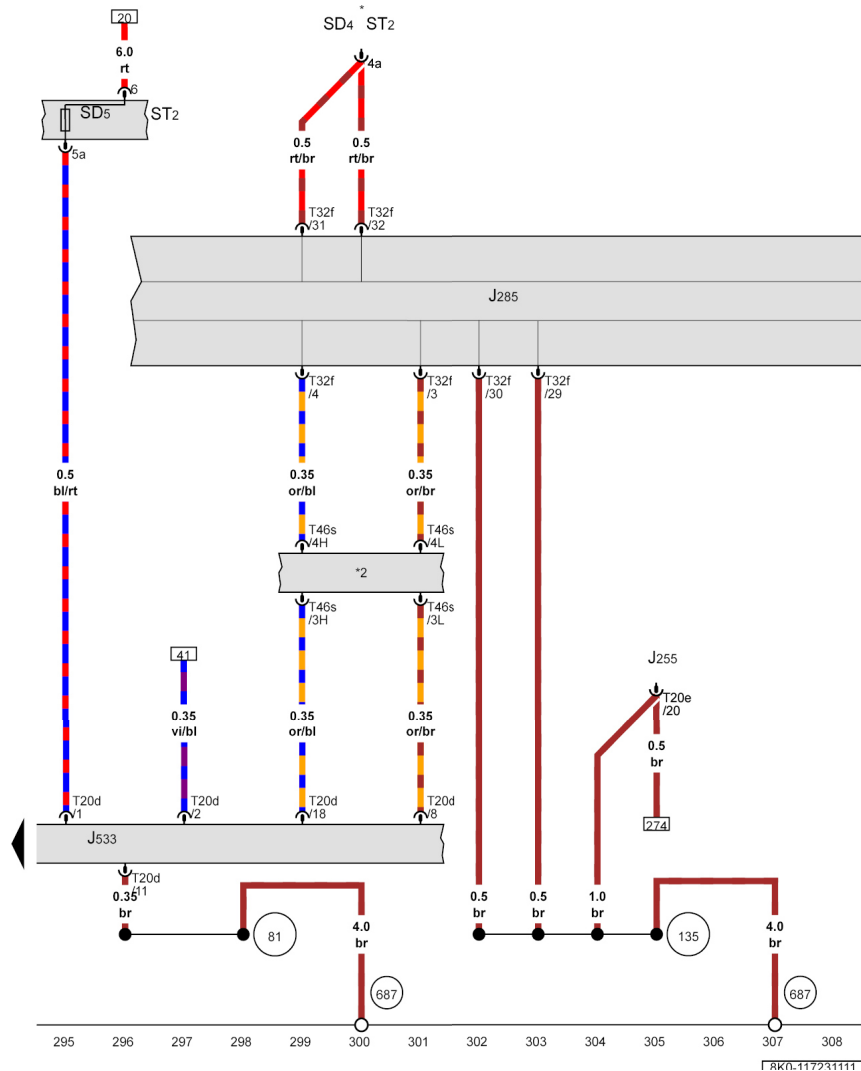
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Current Flow Diagram

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Control unit in dash panel insert, Data bus diagnostic interface

- J255 - Climatronic control unit  
 J285 - Control unit in dash panel insert  
 J533 - Data bus diagnostic interface  
 ST2 - Fuse carrier 2
 SD4 - Fuse 4 on fuse holder D  
 SD5 - Fuse 5 on fuse holder D  
 T20d - 20-pin connector 
 T20e - 20-pin connector 
 T32f - 32-pin connector 
 T46s - 46-pin connector  
 81 - Earth connection 1, in dash panel wiring harness
 135 - Earth connection 2, in dash panel wiring harness
 687 - Earth point 1, on centre tunnel  
 * - see applicable current flow diagram for fuse assignment
 *2 - see applicable current flow diagram

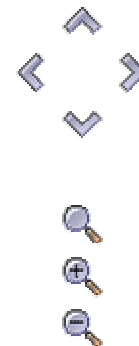


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 or = orange
 rs = pink

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Current Flow Diagram

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G - Fuel gauge sender









- *

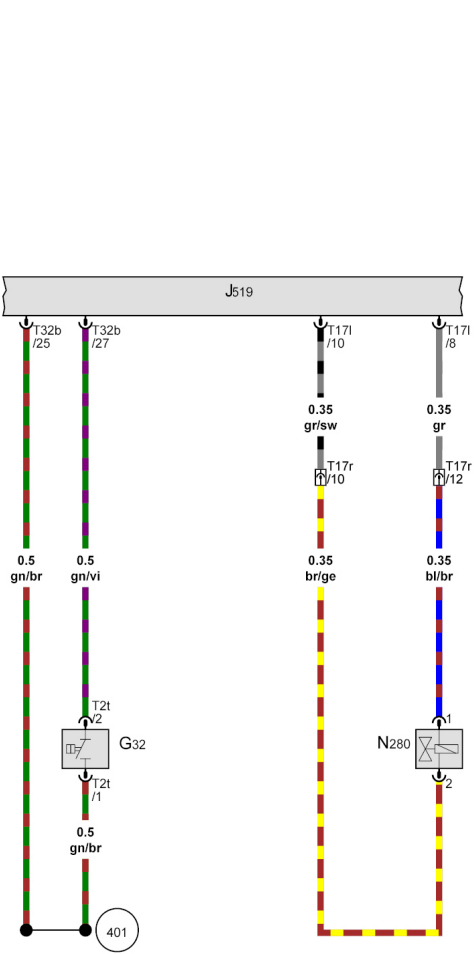
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Current Flow Diagram

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Coolant shortage indicator sender, Onboard supply control unit

- G32 - Coolant shortage indicator sender
- J519 - Onboard supply control unit  
- N280 - Air conditioner compressor regulating valve
- T2t - 2-pin connector
- T17l - 17-pin connector  
- T17r - 17-pin connector, white  
- T32b - 32-pin connector  
- 401 - Earth connection (sender earth), in interior wiring harness



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