

Phaeton

Current Flow Diagram

No. 1 / 1

Edition 02.2007

6.0 l/309 kW - Motronic, engine code BAN

- **Radiator fan**

From May 2002

Notes:

For information concerning

- ◆ Relay and fuse assignment
- ◆ Multi-pin connectors
- ◆ Control units and relays
- ◆ Earth connections

→ Overview of Fitting Locations!

For information concerning

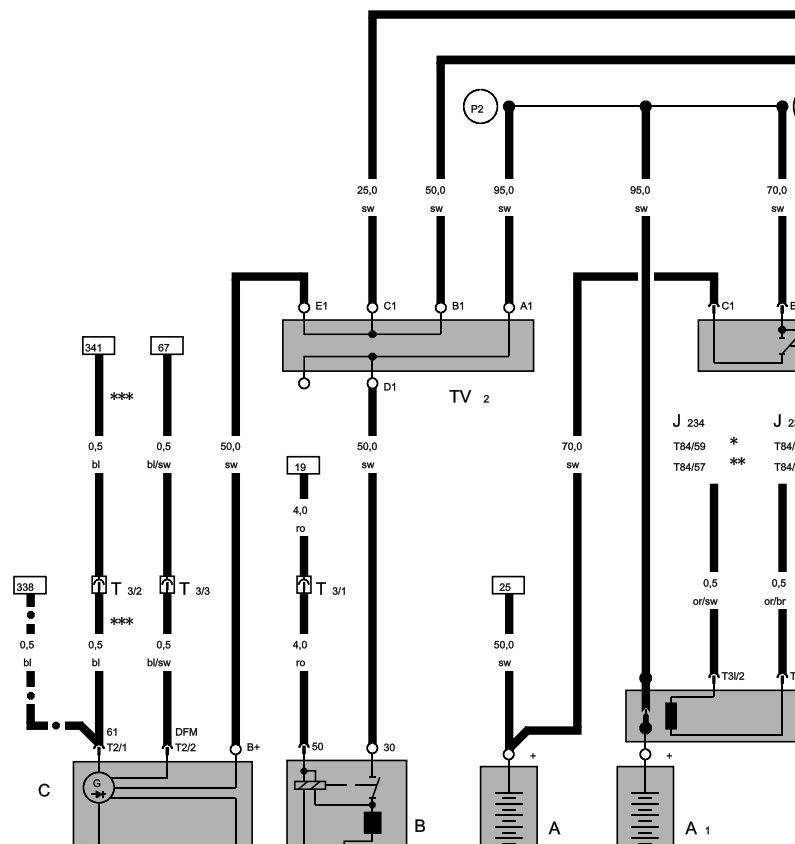
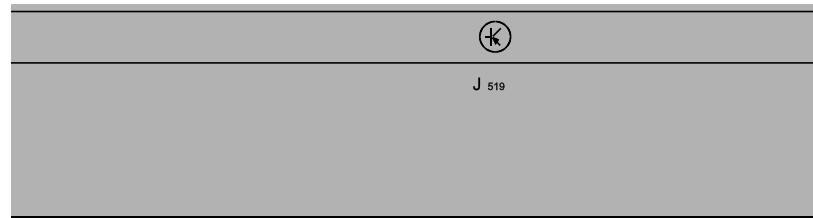
- ◆ Fault Finding Programs

→ Guided Fault Finding

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Current Flow Diagram

No. 1 / 2



Battery, alternator, starter, relay for battery parallel circuit, igniter for battery isolator

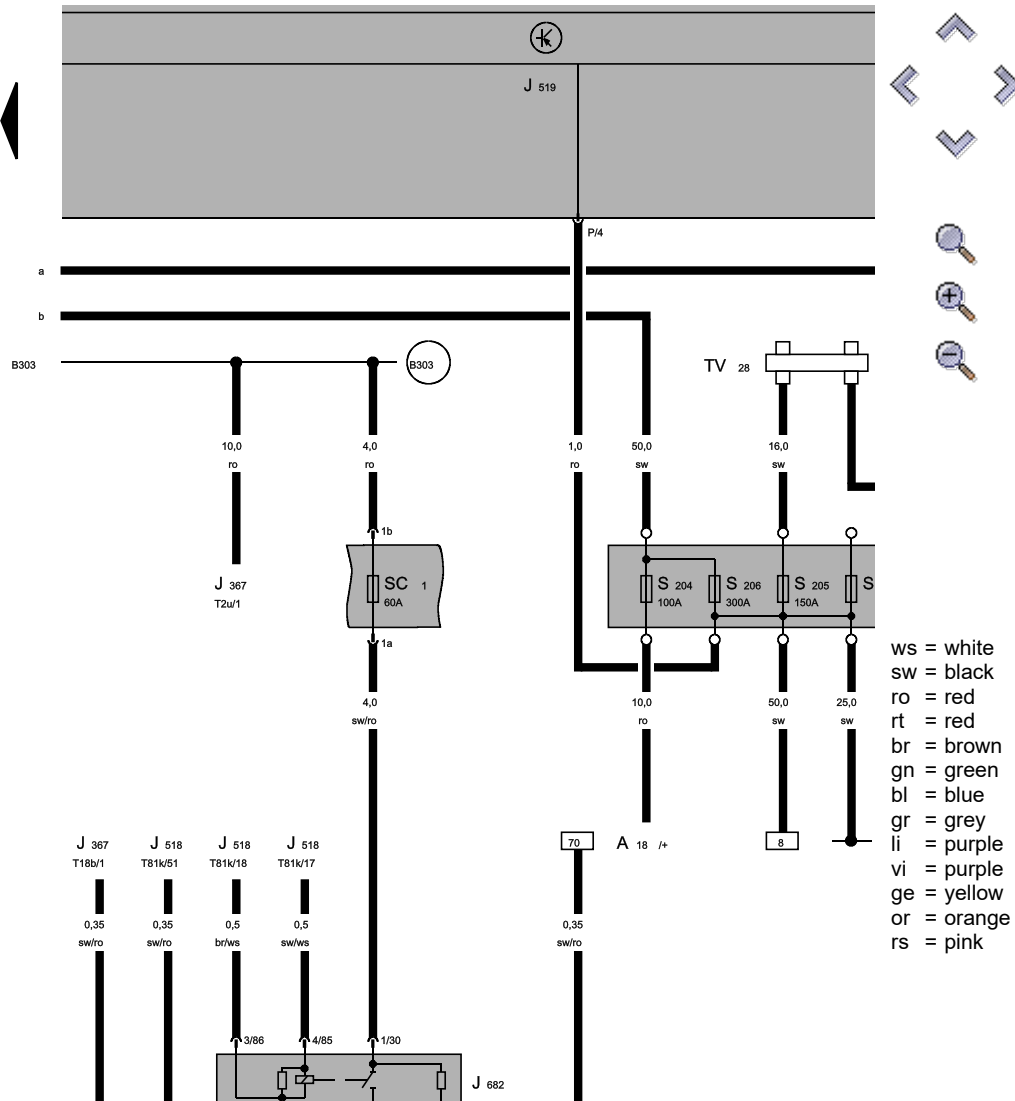
- A - Battery
- A1 - Second battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- J234 - Airbag control unit
- J367 - Battery monitor control unit
- J519 - Onboard supply control unit
- J581 - Battery parallel circuit relay
- N253 - Battery isolation igniter
- SC32 - Fuse 32 on fuse holder C
- T2 - 2-pin connector
- T3 - 3-pin connector
- T3I - 3-pin connector
- T18b - 18-pin connector
- T84 - 84-pin connector
- TV2 - Terminal 30 wiring junction
- 621 - Earth point next to onboard supply battery
- 624 - Earth point, next to starter battery
- B303 - Positive connection 7 (30), in main wiring harness
- P2 - Positive connection (30), in battery wiring harness
- * - From May 2005
- ** - To April 2005
- *** - From August 2002
- - up to July 2002

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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Current Flow Diagram

No. 1 / 3



Terminal 50 voltage supply relay, fuse S204, S205, S206, S207, SC1

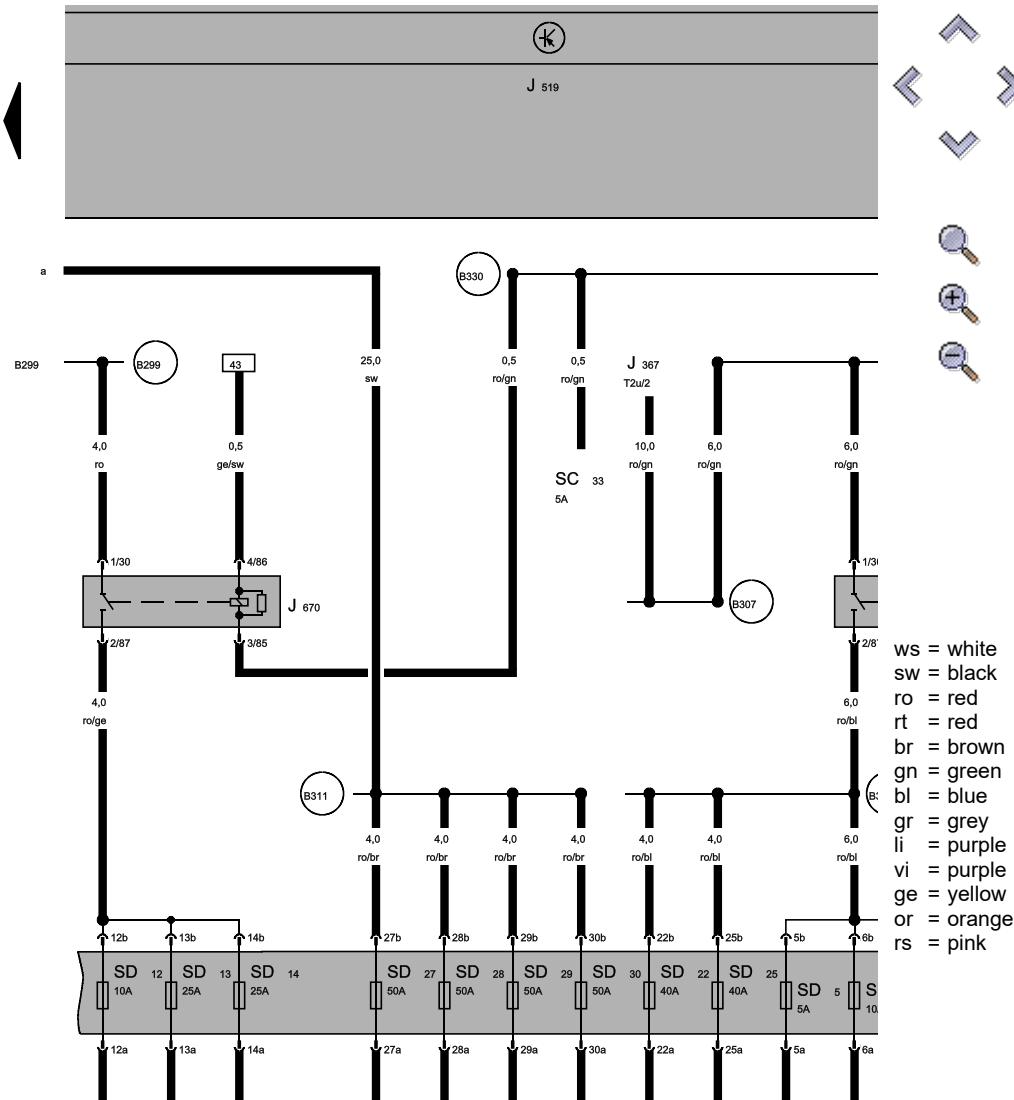
- A18 - Windscreen heater voltage transformer
- J367 - Battery monitor control unit
- J518 - Entry and start authorisation control unit
- J519 - Onboard supply control unit
- J682 - Terminal 50 voltage supply relay
- S204 - Fuse 1 (30)
- S205 - Fuse 2 (30)
- S206 - Fuse 3 (30)
- S207 - Fuse 4 (30)
- SC1 - Fuse 1 on fuse holder C
- T2u - 2-pin connector
- T18b - 18-pin connector
- T81k - 81-pin connector
- TV28 - Terminal 30 wiring junction 3
- B299 - Positive connection 3 (30), in main wiring harness
- B302 - Positive connection 6 (30), in main wiring harness
- B303 - Positive connection 7 (30), in main wiring harness
- B660 - Connection (terminal 50 diagnosis), in main wiring harness

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Current Flow Diagram

No. 1 / 4



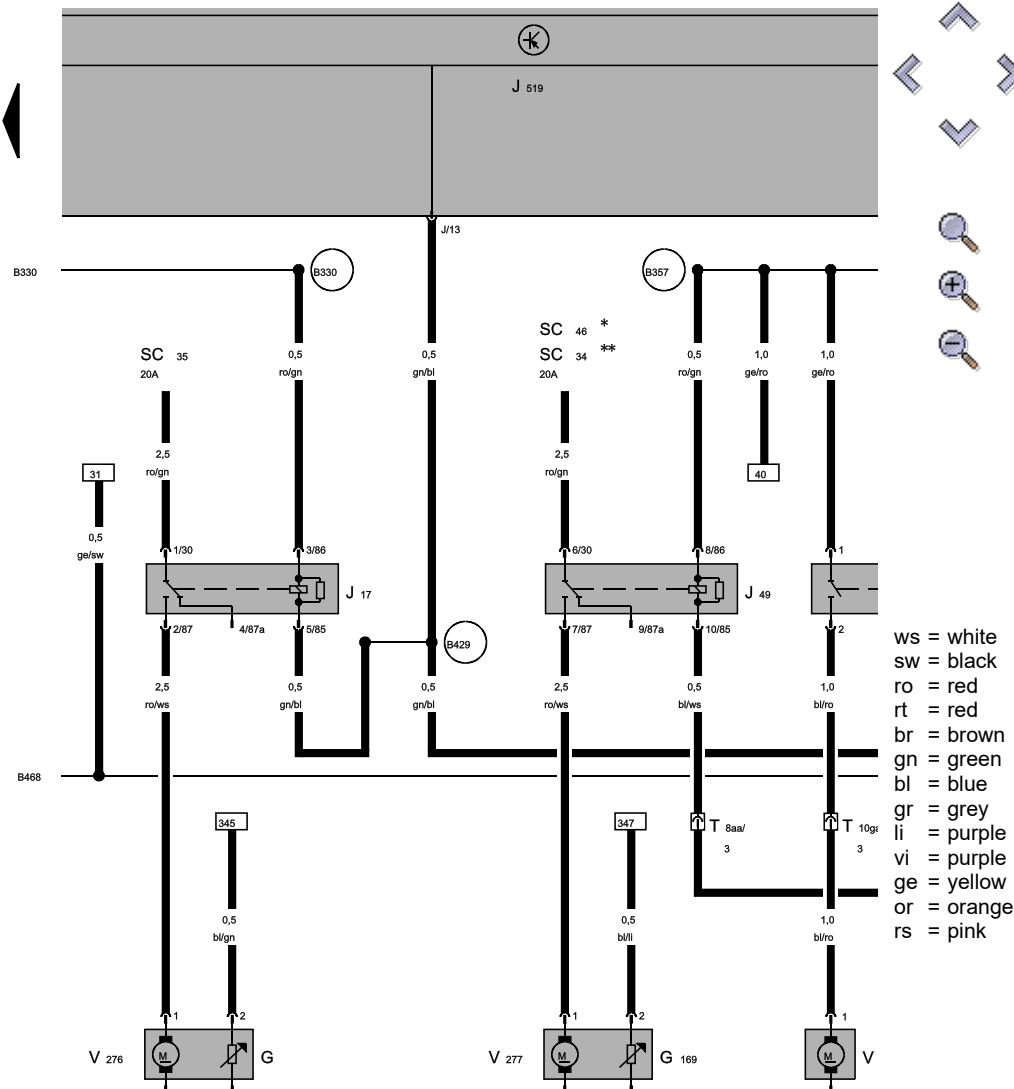
Current supply relay for Motronic, current supply relay 2 for Motronic, fuses

- J271 - Motronic current supply relay
- J367 - Battery monitor control unit
- J519 - Onboard supply control unit
- J670 - Motronic current supply relay 2
- SC33 - Fuse 33 on fuse holder C
- SD5 - Fuse 5 on fuse holder D
- SD6 - Fuse 6 on fuse holder D
- SD7 - Fuse 7 on fuse holder D
- SD10 - Fuse 10 on fuse holder D
- SD12 - Fuse 12 on fuse holder D
- SD13 - Fuse 13 on fuse holder D
- SD14 - Fuse 14 on fuse holder D
- SD22 - Fuse 22 on fuse holder D
- SD25 - Fuse 25 on fuse holder D
- SD27 - Fuse 27 on fuse holder D
- SD28 - Fuse 28 on fuse holder D
- SD29 - Fuse 29 on fuse holder D
- SD30 - Fuse 30 on fuse holder D
- T2u - 2-pin connector
- B299 - Positive connection 3 (30), in main wiring harness
- B307 - Positive connection 11 (30), in main wiring harness
- B308 - Positive connection 12 (30), in main wiring harness
- B311 - Positive connection 15 (30), in main wiring harness
- B330 - Connection 16 (30a), in main wiring harness
- B352 - Connection 3 (87a), in main wiring harness
- B468 - Connection 4, in main wiring harness

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Current Flow Diagram

No. 1 / 5



Fuel pump relay, relay for electric fuel pump 2, relay for additional coolant pump, fuel gauge sender, fuel gauge sender 2, fuel pumps

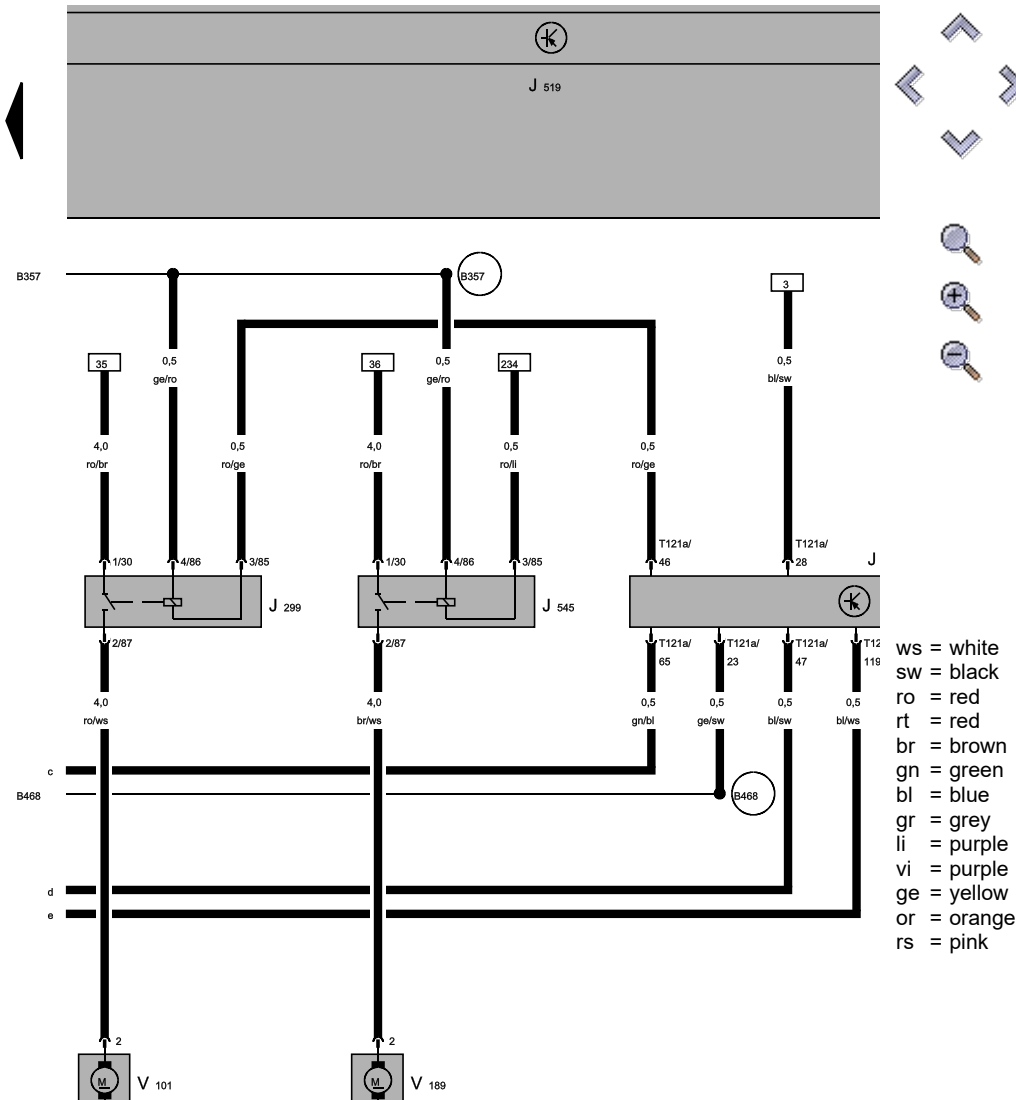
- G - Fuel gauge sender
- G169 - Fuel gauge sender 2
- J17 - Fuel pump relay
- J49 - Electric fuel pump 2 relay
- J496 - Additional coolant pump relay
- J519 - Onboard supply control unit
- SC34 - Fuse 34 on fuse holder C
- SC35 - Fuse 35 on fuse holder C
- SC46 - Fuse 46 on fuse holder C
- T8aa - 8-pin connector, black, coupling point 3/engine prewiring harness
- T10ga - 10-pin connector, black, coupling point 1/gearbox
- V51 - Continued coolant circulation pump
- V276 - Fuel pump 1
- V277 - Fuel pump 2
- 376 - Earth connection 11, in main wiring harness
- 623 - Earth point 2 for earth plate
- B330 - Connection 16 (30a), in main wiring harness
- B357 - Connection 8 (87a), in main wiring harness
- B429 - Connection (EFPR), in main wiring harness
- * - From November 2003
- ** - To October 2003

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 sw = black
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 gn = green
 bl = blue
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Current Flow Diagram

No. 1 / 6



Engine control unit, relay for secondary air pump, relay for secondary air pump 2, motor for secondary air pump, motor for secondary air pump 2

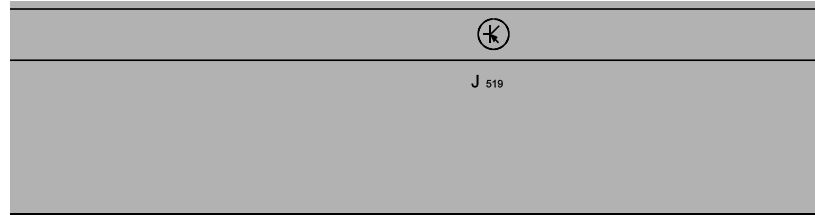
- J299 - Secondary air pump relay
- J519 - Onboard supply control unit
- J527 - Steering column electronics control unit
- J545 - Secondary air pump 2 relay
- J623 - Engine control unit
- T16f - 16-pin connector
- T17c - 17-pin connector, on left under dash panel
- T121a - 121-pin connector
- V101 - Secondary air pump motor
- V189 - Secondary air pump motor 2
- 398 - Earth connection 33, in main wiring harness
- 641 - Earth point 3, on left in engine compartment
- B357 - Connection 8 (87a), in main wiring harness
- B441 - Connection (CCS), in main wiring harness
- B468 - Connection 4, in main wiring harness

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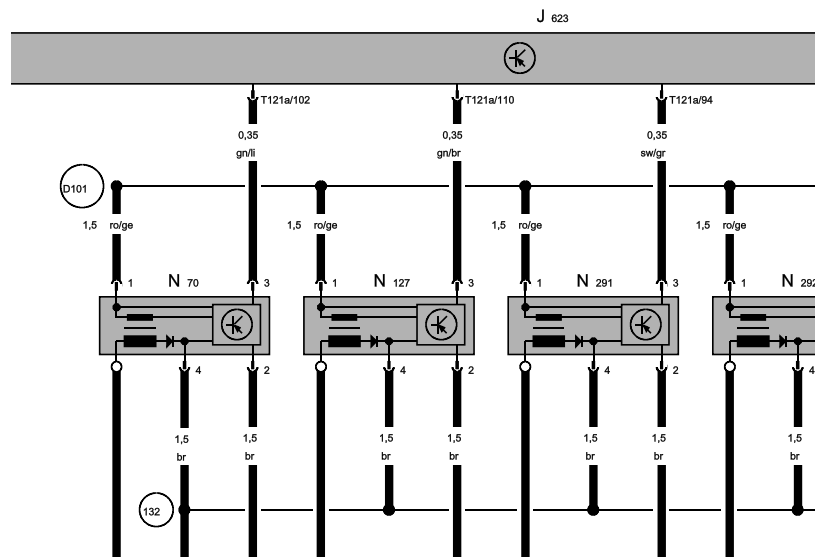
Current Flow Diagram

No. 1 / 7



Engine control unit, ignition coils 1 to 4 with output stage

- J519 - Onboard supply control unit
- 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
- N292 - Ignition coil 4 with output stage
- P - Spark plug connector
- Q - Spark plug
- T121a - 121-pin connector
- 131 - Earth connection 2, in engine compartment wiring harness
- 132 - Earth connection 3, in engine compartment wiring harness
- 600 - Earth point, on right of cylinder head
- D101 - Connection 1, in engine compartment wiring harness

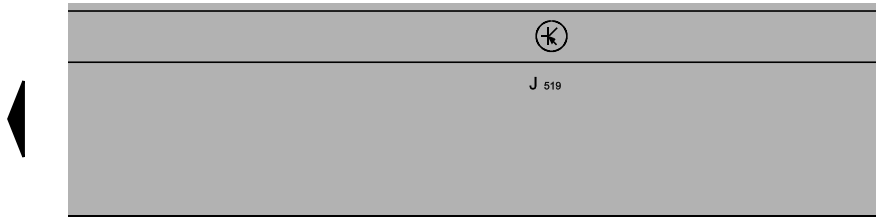


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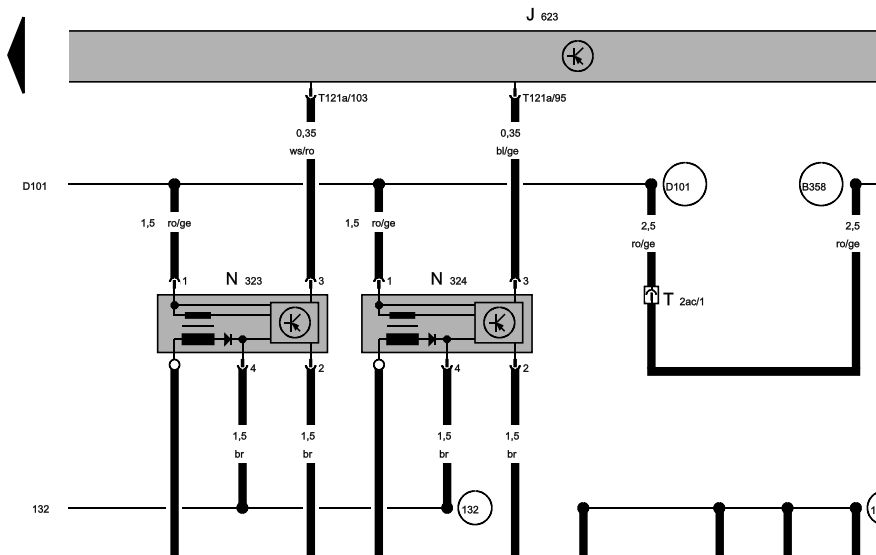
Current Flow Diagram

No. 1 / 8



Engine control unit, ignition coil 5 and 6 with output stage

- J519 - Onboard supply control unit
- J623 - Engine control unit
- N323 - Ignition coil 5 with output stage
- N324 - Ignition coil 6 with output stage
- P - Spark plug connector
- Q - Spark plug
- T2ac - 2-pin connector, black, coupling point 1/engine prewiring harness
- T121a - 121-pin connector
- 131 - Earth connection 2, in engine compartment wiring harness
- 132 - Earth connection 3, in engine compartment wiring harness
- 167 - Earth connection 4, in engine compartment wiring harness
- 649 - Earth point 5, on bulkhead
- B358 - Connection 9 (87a), in main wiring harness
- D101 - Connection 1, in engine compartment wiring harness







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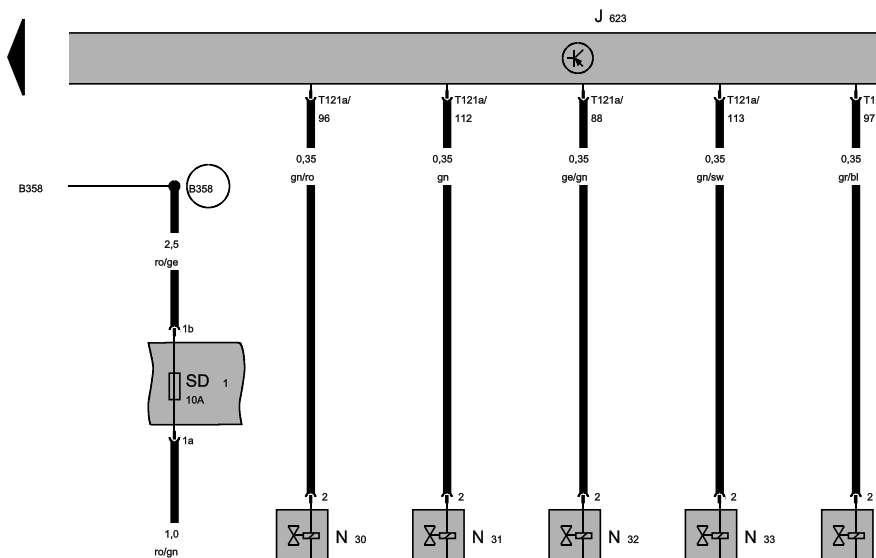
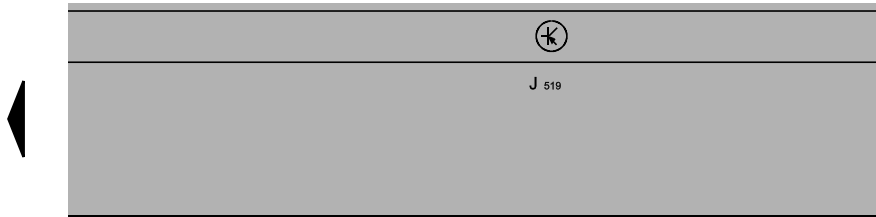
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Current Flow Diagram

No. 1 / 9

Engine control unit, injectors for cylinders 1 to 6, fuse SD1

- J519 - Onboard supply control unit 
- 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
- SD1 - Fuse 1 on fuse holder D 
- T8aa - 8-pin connector, black, coupling point 3/engine prewiring harness
- T121a - 121-pin connector 
- B358 - Connection 9 (87a), in main wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness

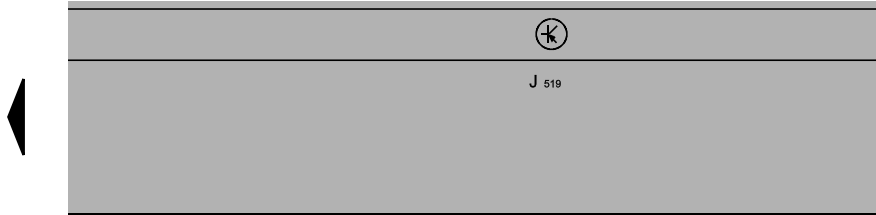


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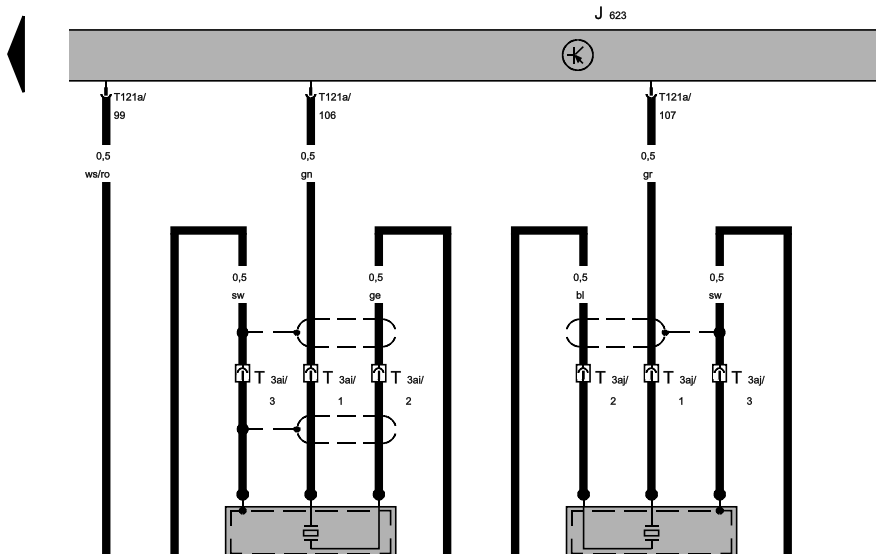
Current Flow Diagram

No. 1 / 10



Engine control unit, knock sensor 1, knock sensor 2

- G61 - Knock sensor 1
- G66 - Knock sensor 2
- G83 - Radiator outlet coolant temperature sender
- J519 - Onboard supply control unit
- J623 - Engine control unit
- T3ai - 3-pin connector
- T3aj - 3-pin connector
- T121a - 121-pin connector
- 139 - Earth connection (sender earth), in Motronic wiring harness

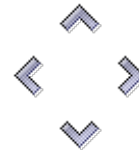
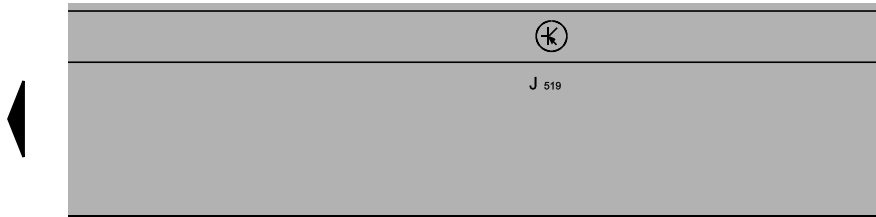


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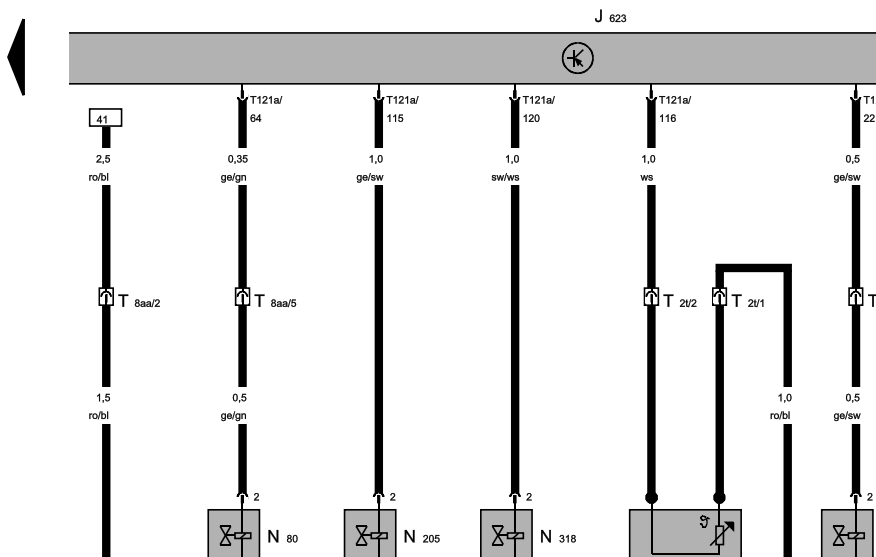
Current Flow Diagram

No. 1 / 11



Engine control unit, thermostat for map controlled engine cooling, secondary air inlet valve, right solenoid valve for electrohydraulic engine mounting, valves for camshaft adjustment N80

- F265 - Map-controlled engine cooling system thermostat
- J519 - Onboard supply control unit
- J623 - Engine control unit
- N80 - Activated charcoal filter system solenoid valve 1
- N112 - Secondary air inlet valve
- N145 - Right electrohydraulic engine mounting solenoid valve
- N205 - Camshaft control valve 1
- N318 - Exhaust camshaft control valve 1
- T2t - 2-pin connector, on rear of engine
- T8aa - 8-pin connector, black, coupling point 3/engine prewiring harness
- T10ga - 10-pin connector, black, coupling point 1/gearbox
- T10gb - 10-pin connector, black, coupling point 2/gearbox
- T121a - 121-pin connector
- E30 - Connection (87a), in engine wiring harness

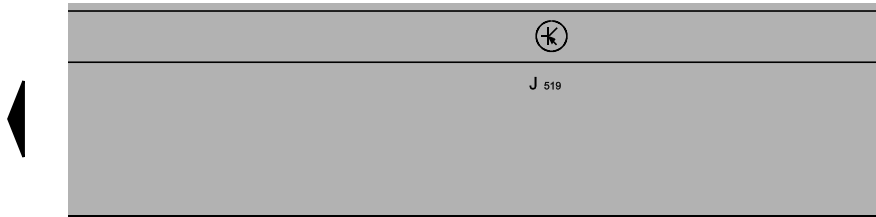


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Phaeton

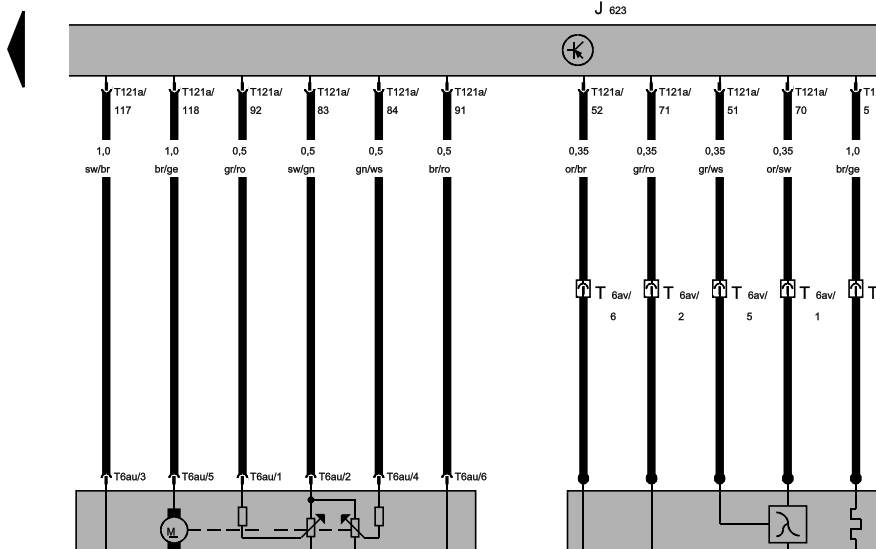
Current Flow Diagram

No. 1 / 12



Engine control unit, throttle valve control module, Lambda probe

- G39 - Lambda probe
- 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
- J338 - Throttle valve module
- J519 - Onboard supply control unit
- J623 - Engine control unit
- T6au - 6-pin connector
- T6av - 6-pin connector, black, coupling point 1/before plenum chamber in engine compartment
- T121a - 121-pin connector
- Z19 - Lambda probe heater
- B353 - Connection 4 (87a), in main wiring harness

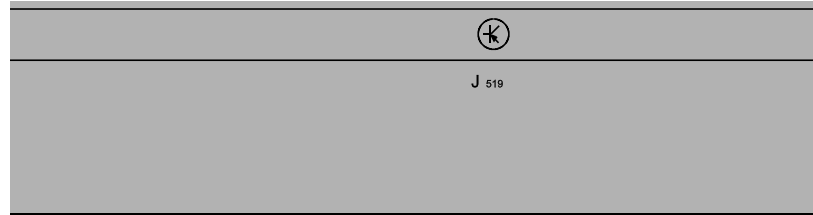


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- gr = grey
- li = purple
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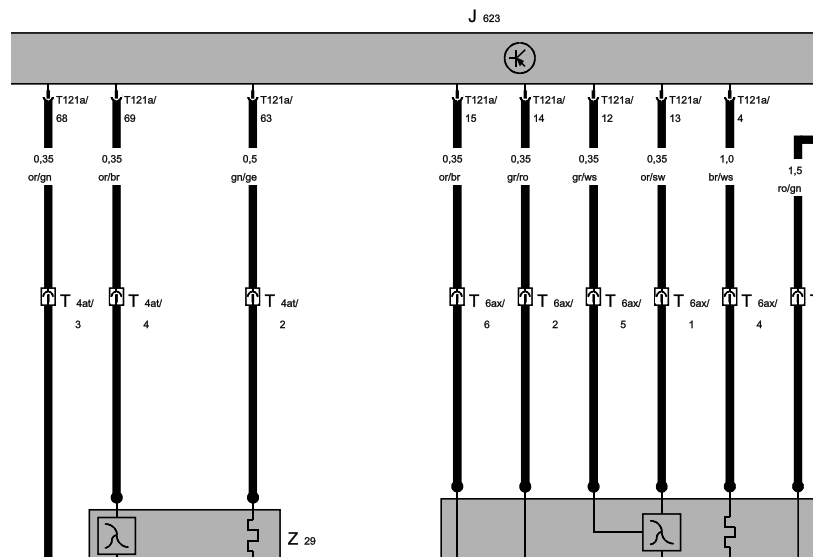
Current Flow Diagram

No. 1 / 13



Engine control unit, Lambda probe after catalytic converter, Lambda probe 2

- G108 - Lambda probe 2
- G130 - Lambda probe after catalytic converter
- J519 - Onboard supply control unit
- J623 - Engine control unit
- T4at - 4-pin connector, black, coupling point 3/before plenum chamber in engine compartment
- T6ax - 6-pin connector, green, coupling point 2/before plenum chamber in engine compartment
- T121a - 121-pin connector
- Z28 - Lambda probe heater 2
- Z29 - Lambda probe 1 heater after catalytic converter

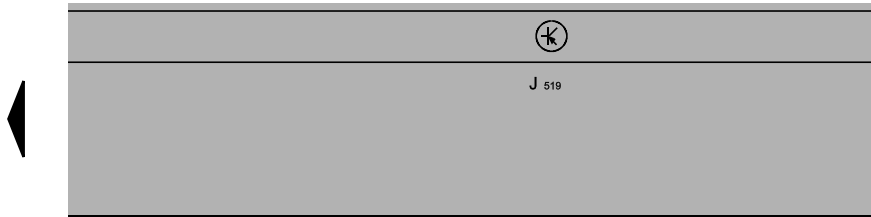


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Phaeton

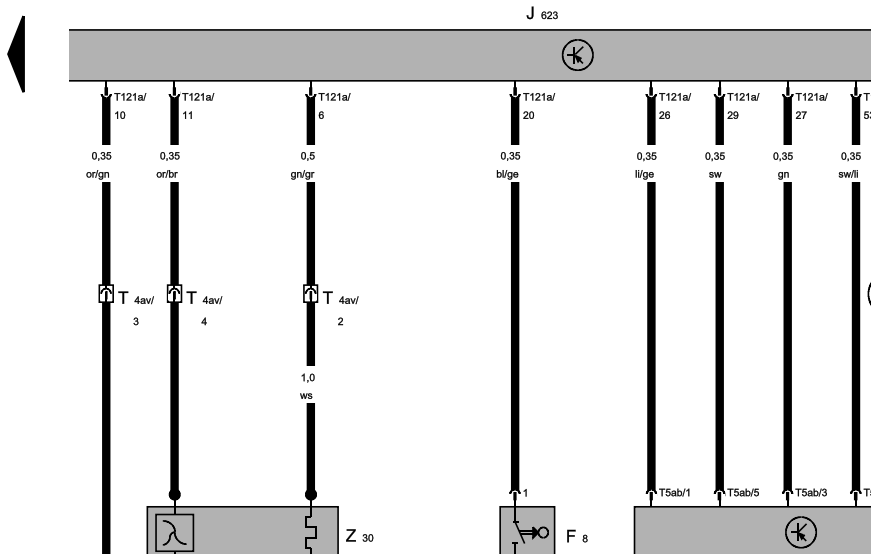
Current Flow Diagram

No. 1 / 14



Engine control unit, kickdown switch, intake air temperature sender, Lambda probe 2 after catalytic converter, air mass meter 2

- F8 - Kickdown switch
- G42 - Intake air temperature sender
- G70 - Air mass meter
- G131 - Lambda probe 2 after catalytic converter
- J519 - Onboard supply control unit
- J623 - Engine control unit
- T4av - 4-pin connector, green, coupling point 4/before plenum chamber in engine compartment
- T5ab - 5-pin connector
- T121a - 121-pin connector
- Z30 - Lambda probe 2 heater after catalytic converter
- 371 - Earth connection 6, in main wiring harness
- 372 - Earth connection 7, in main wiring harness
- 639 - Earth point, left A-pillar
- B353 - Connection 4 (87a), in main wiring harness
- B356 - Connection 7 (87a), in main wiring harness

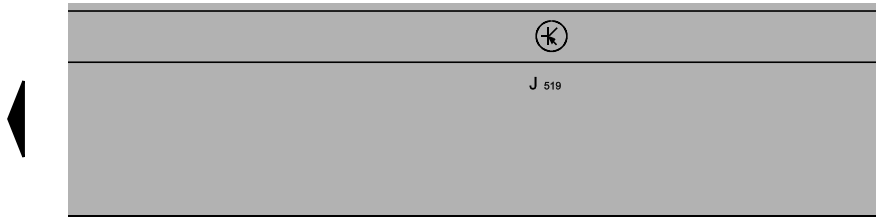


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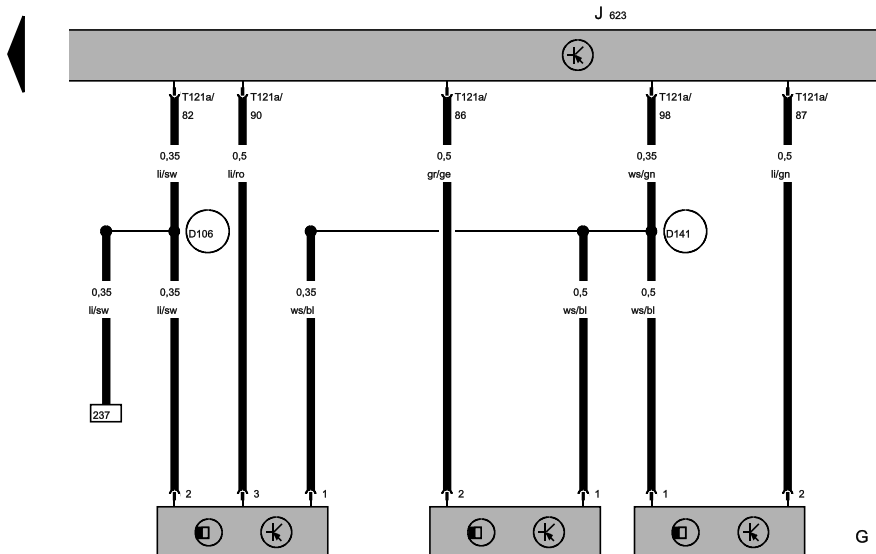
Current Flow Diagram

No. 1 / 15



Engine control unit, Hall sender, coolant temperature sender, Hall sender 3. engine speed sender

- G28 - Engine speed sender
- G40 - Hall sender
- G62 - Coolant temperature sender
- G300 - Hall sender 3
- J519 - Onboard supply control unit
- J623 - Engine control unit
- T121a - 121-pin connector
- 220 - Earth connection (sender earth), in engine wiring harness
- D106 - Connection 4, in engine compartment wiring harness
- D141 - Connection (5V) in engine prewiring harness



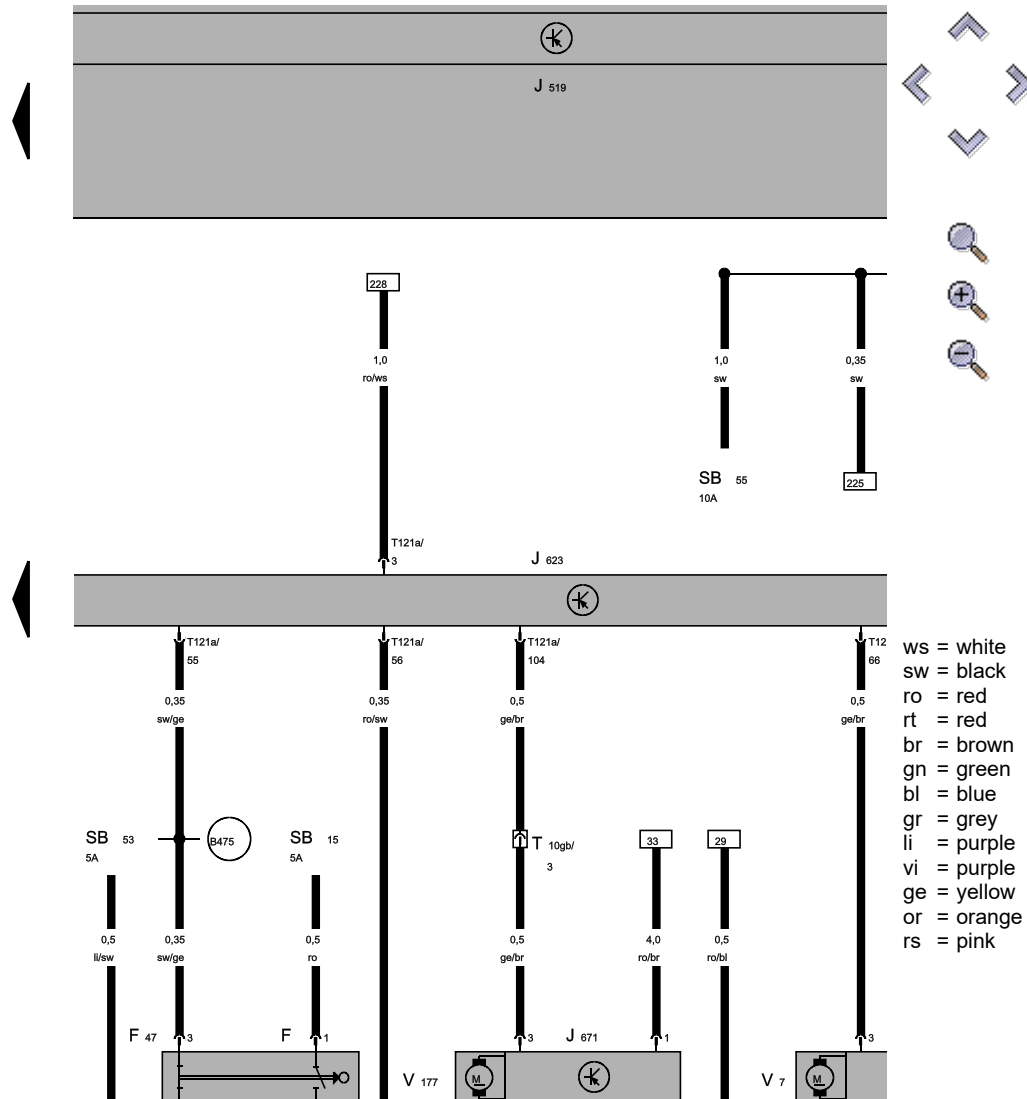
- ws = white
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- ro = red
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- br = brown
- gn = green
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- ge = yellow
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- rs = pink

G 6

Phaeton

Current Flow Diagram

No. 1 / 16



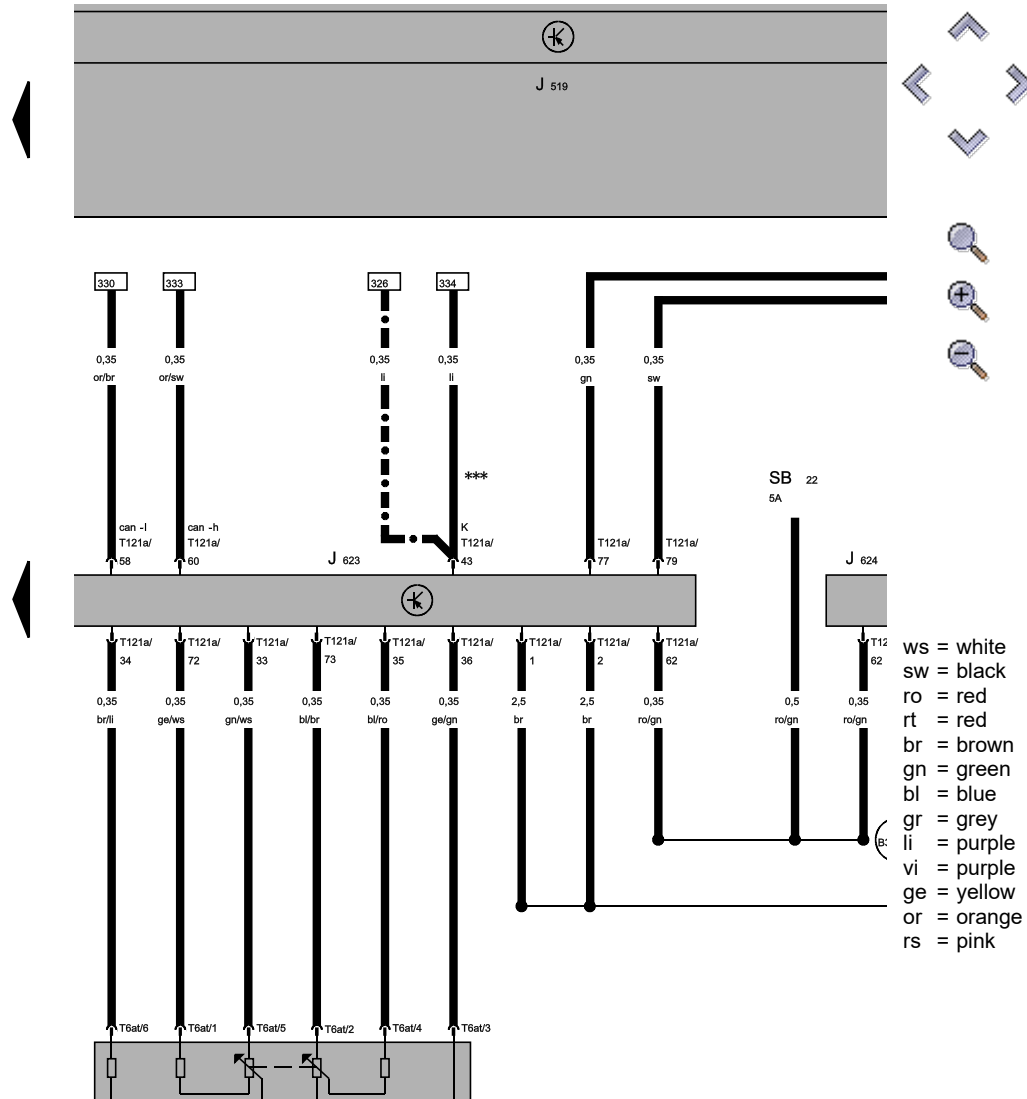
Engine control unit, brake light switch, brake pedal switch, control unit for radiator fan, control unit 2 for radiator fan, radiator fan

- F - Brake light switch
- F47 - Brake pedal switch
- J293 - Radiator fan control unit
- J519 - Onboard supply control unit
- J623 - Engine control unit
- J671 - Radiator fan control unit 2
- SB15 - Fuse 15 on fuse holder B
- SB53 - Fuse 53 on fuse holder B
- SB55 - Fuse 55 on fuse holder B
- T10gb - 10-pin connector, black, coupling point 2/gearbox
- T121a - 121-pin connector
- V7 - Radiator fan
- V177 - Radiator fan 2
- 642 - Earth point, electronically controlled fan
- B279 - Connection 3 (15a), in main wiring harness
- B335 - Connection 1 (54), in main wiring harness
- B354 - Connection 5 (87a), in main wiring harness
- B475 - Connection 11, in main wiring harness

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Current Flow Diagram

No. 1 / 17



Engine control unit, engine control unit 2, accelerator position sender

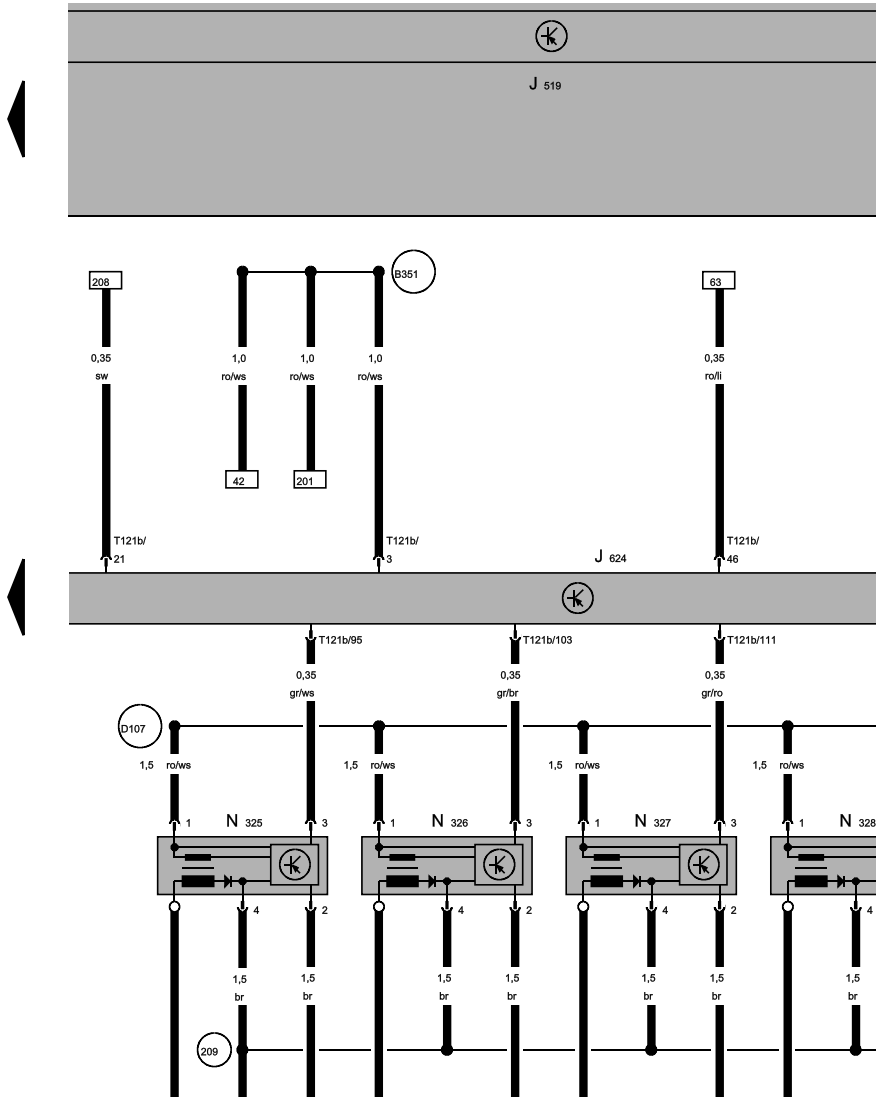
- G 79 - Accelerator position sender
- G 185 - Accelerator position sender 2
- J 519 - Onboard supply control unit
- J 623 - Engine control unit
- J 624 - Engine control unit 2
- SB 22 - Fuse 22 on fuse holder B
- T 6at - 6-pin connector
- T 121a - 121-pin connector
- T 121b - 121-pin connector
- 390 - Earth connection 25, in main wiring harness
- 647 - Earth point 3, on bulkhead
- B 329 - Connection 15 (30a), in main wiring harness
- *** - From August 2002
- - Up to July 2002

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Current Flow Diagram

No. 1 / 18



Engine control unit 2, ignition coil 7 up to 10 with output stage

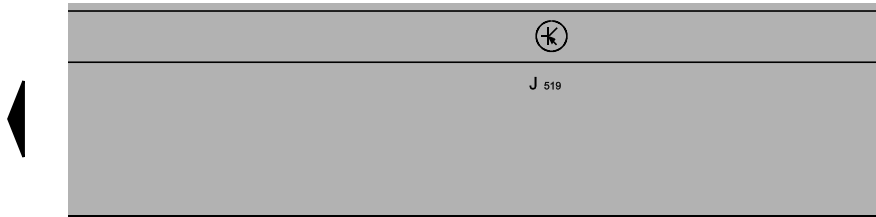
- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- N325 - Ignition coil 7 with output stage
- N326 - Ignition coil 8 with output stage
- N327 - Ignition coil 9 with output stage
- N328 - Ignition coil 10 with output stage
- P - Spark plug connector
- Q - Spark plug
- T121b - 121-pin connector
- 201 - Earth connection 5, in engine compartment wiring harness
- 209 - Earth connection 6, in engine compartment wiring harness
- 601 - Earth point, on left of cylinder head
- B351 - Connection 2 (87a), in main wiring harness
- D107 - Connection 5, in engine compartment wiring harness

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Phaeton

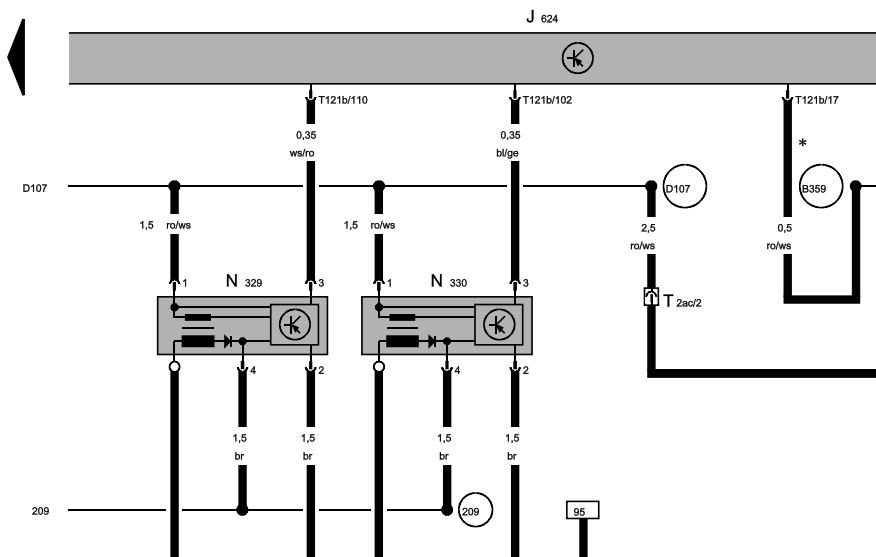
Current Flow Diagram

No. 1 / 19



Engine control unit 2, ignition coil 11 and 12 with output stage

- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- N329 - Ignition coil 11 with output stage
- N330 - Ignition coil 12 with output stage
- P - Spark plug connector
- Q - Spark plug
- T2ac - 2-pin connector, black, coupling point 1/engine prewiring harness
- T121b - 121-pin connector
- 201 - Earth connection 5, in engine compartment wiring harness
- 209 - Earth connection 6, in engine compartment wiring harness
- B359 - Connection 10 (87a), in main wiring harness
- D107 - Connection 5, in engine compartment wiring harness
- * - Only engine code BAN up to October 2003

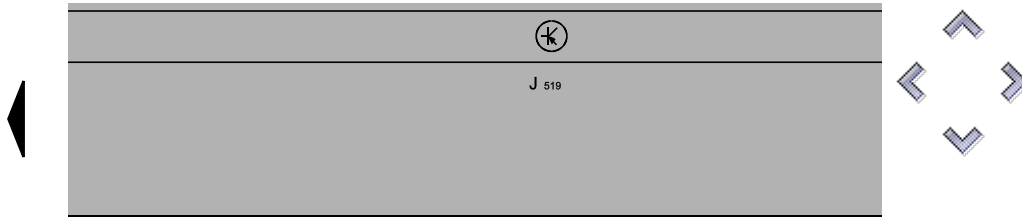


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Phaeton

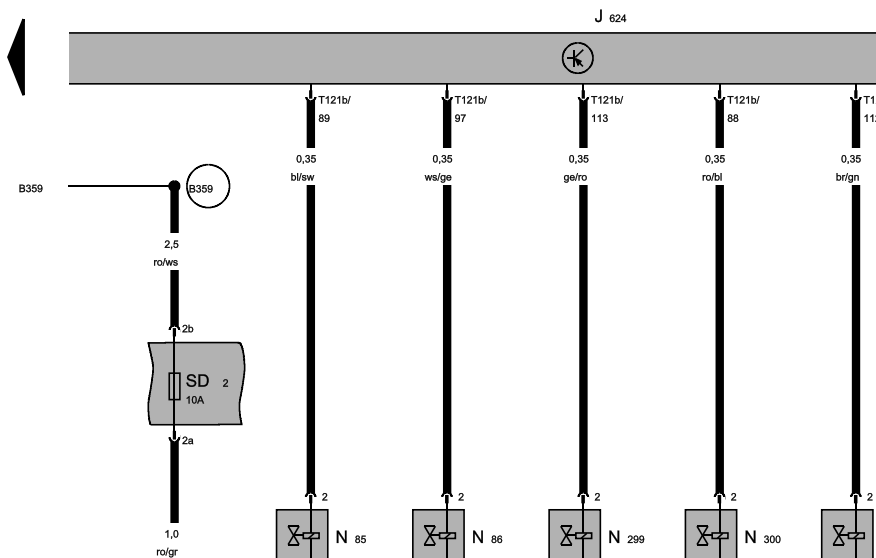
Current Flow Diagram

No. 1 / 20



Engine control unit 2, fuse SD2, injectors for cylinders 7 to 12

- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- N85 - Injector, cylinder 7
- N86 - Injector, cylinder 8
- N299 - Injector, cylinder 9
- N300 - Injector, cylinder 10
- N301 - Injector, cylinder 11
- N302 - Injector, cylinder 12
- SD2 - Fuse 2 on fuse holder D
- T8aa - 8-pin connector, black, coupling point 3/engine prewiring harness
- T121b - 121-pin connector
- B359 - Connection 10 (87a), in main wiring harness
- D137 - Connection 2 (injectors), in engine compartment wiring harness

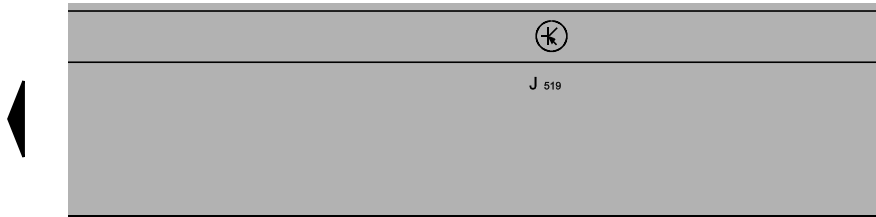


- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

Phaeton

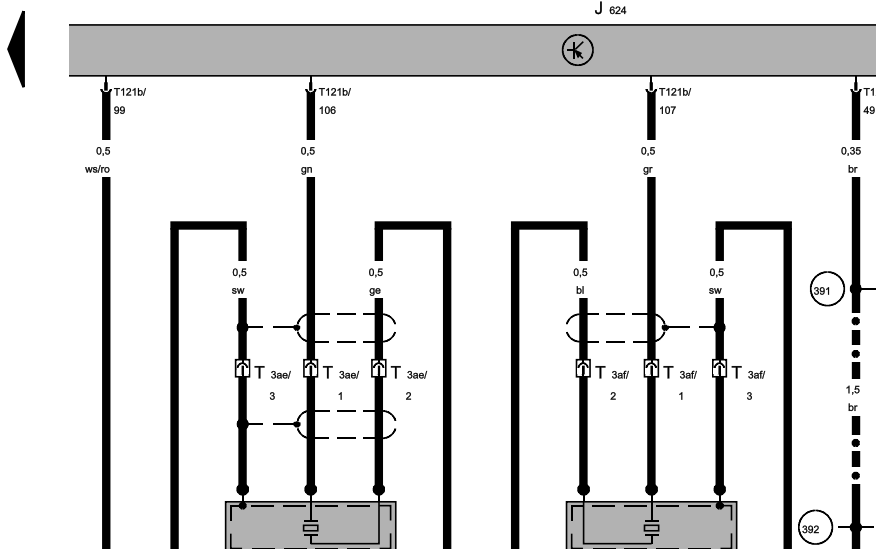
Current Flow Diagram

No. 1 / 21



Engine control unit 2, solenoid valve 2 for activated charcoal filter, knock sensor 3, knock sensor 4

- G198 - Knock sensor 3
- G199 - Knock sensor 4
- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- N333 - Activated charcoal filter system solenoid valve 2
- T3ae - 3-pin connector
- T3af - 3-pin connector
- T8aa - 8-pin connector, black, coupling point 3/engine prewiring harness
- T121b - 121-pin connector
- 391 - Earth connection 26, in main wiring harness
- 392 - Earth connection 27, in main wiring harness
- 646 - Earth point 2, on bulkhead
- D108 - Connection 6, in engine compartment wiring harness
- *** - From August 2002
- - Up to July 2002



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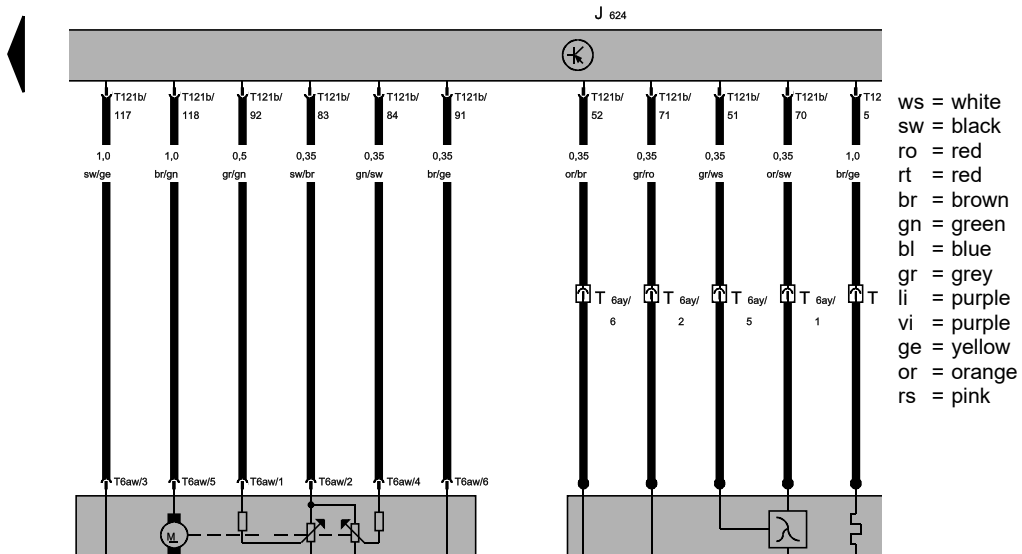
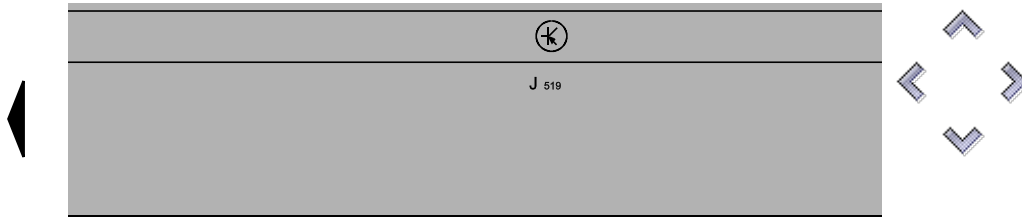
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Current Flow Diagram

No. 1 / 22

Engine control unit 2, throttle valve control module, Lambda probe 3

- G285 - Lambda probe 3
- G296 - Throttle valve drive 2
- G297 - Angle sender 1 for throttle valve drive 2
- G298 - Angle sender 2 for throttle valve drive 2
- J519 - Onboard supply control unit
- J544 - Throttle valve module 2
- J624 - Engine control unit 2
- T6aw - 6-pin connector
- T6ay - 6-pin connector, brown, coupling point 8/before plenum chamber in engine compartment
- T121b - 121-pin connector
- Z62 - Lambda probe heater 3
- B355 - Connection 6 (87a), in main wiring harness

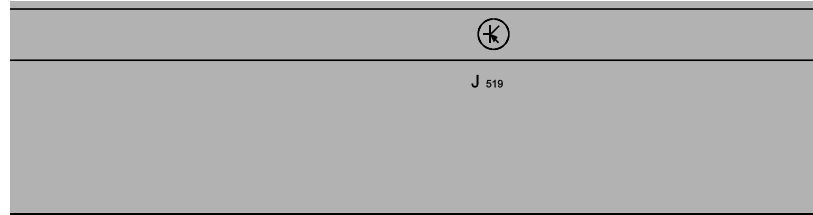


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Phaeton

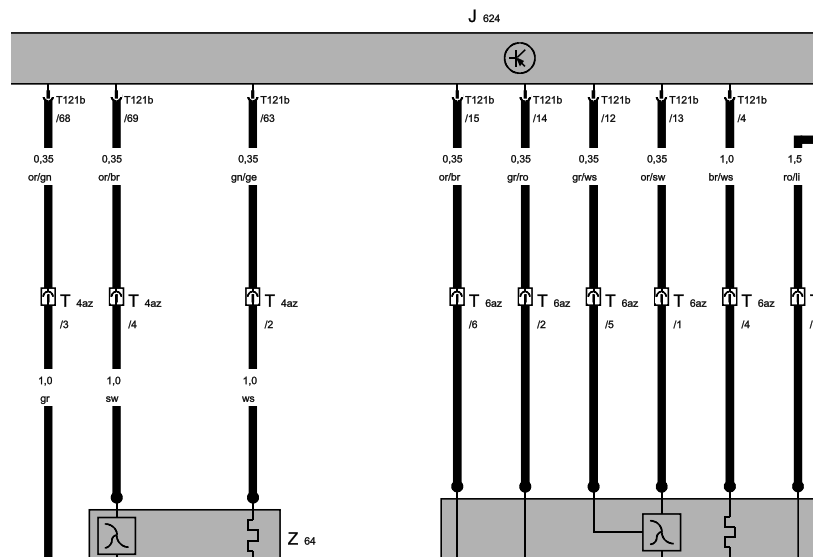
Current Flow Diagram

No. 1 / 23



Engine control unit 2, Lambda probe 3 after catalytic converter, Lambda probe 4

- G286 - Lambda probe 4
- G287 - Lambda probe 3 after catalytic converter
- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- T4az - 4-pin connector, brown, coupling point 6/before plenum chamber in engine compartment
- T6az - 6-pin connector, grey, coupling point 7/before plenum chamber in engine compartment
- T121b - 121-pin connector
- Z63 - Lambda probe heater 4
- Z64 - Lambda probe 4 heater after catalytic converter

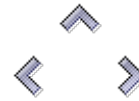
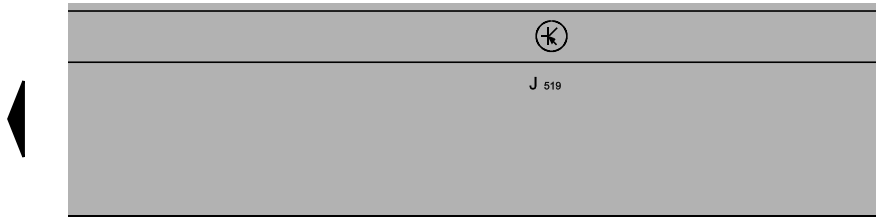


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Phaeton

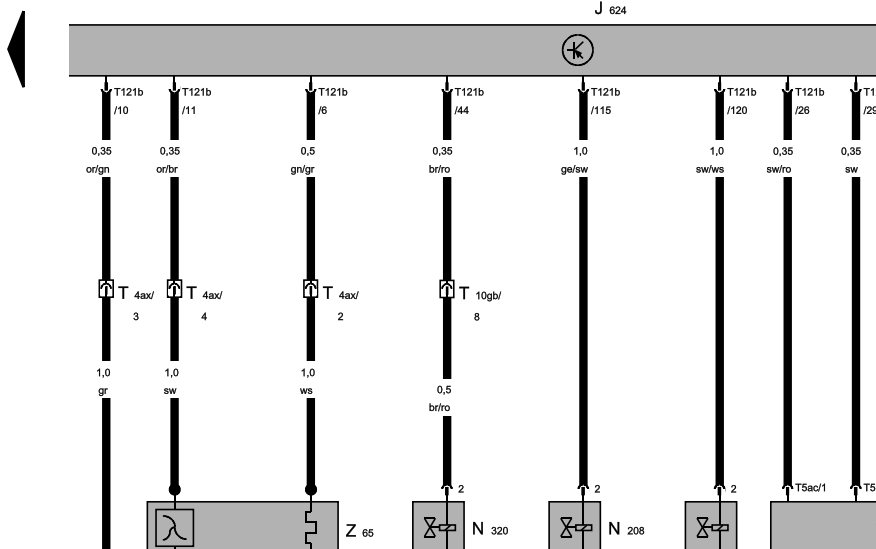
Current Flow Diagram

No. 1 / 24



Engine control unit 2, air mass meter 2, intake air temperature sender 2, Lambda probe 4 after catalytic converter, valve 2 for camshaft adjustment, secondary air inlet valve 2

- G246 - Air mass meter 2
- G288 - Lambda probe 4 after catalytic converter
- G299 - Intake air temperature sender 2
- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- N208 - Camshaft control valve 2
- N319 - Exhaust camshaft control valve 2
- N320 - Secondary air inlet valve 2
- T4ax - 4-pin connector, grey, coupling point 5/before plenum chamber in engine compartment
- T5ac - 5-pin connector
- T10gb - 10-pin connector, black, coupling point 2/gearbox
- T121b - 121-pin connector
- Z65 - Lambda probe 4 heater after catalytic converter
- B355 - Connection 6 (87a), in main wiring harness

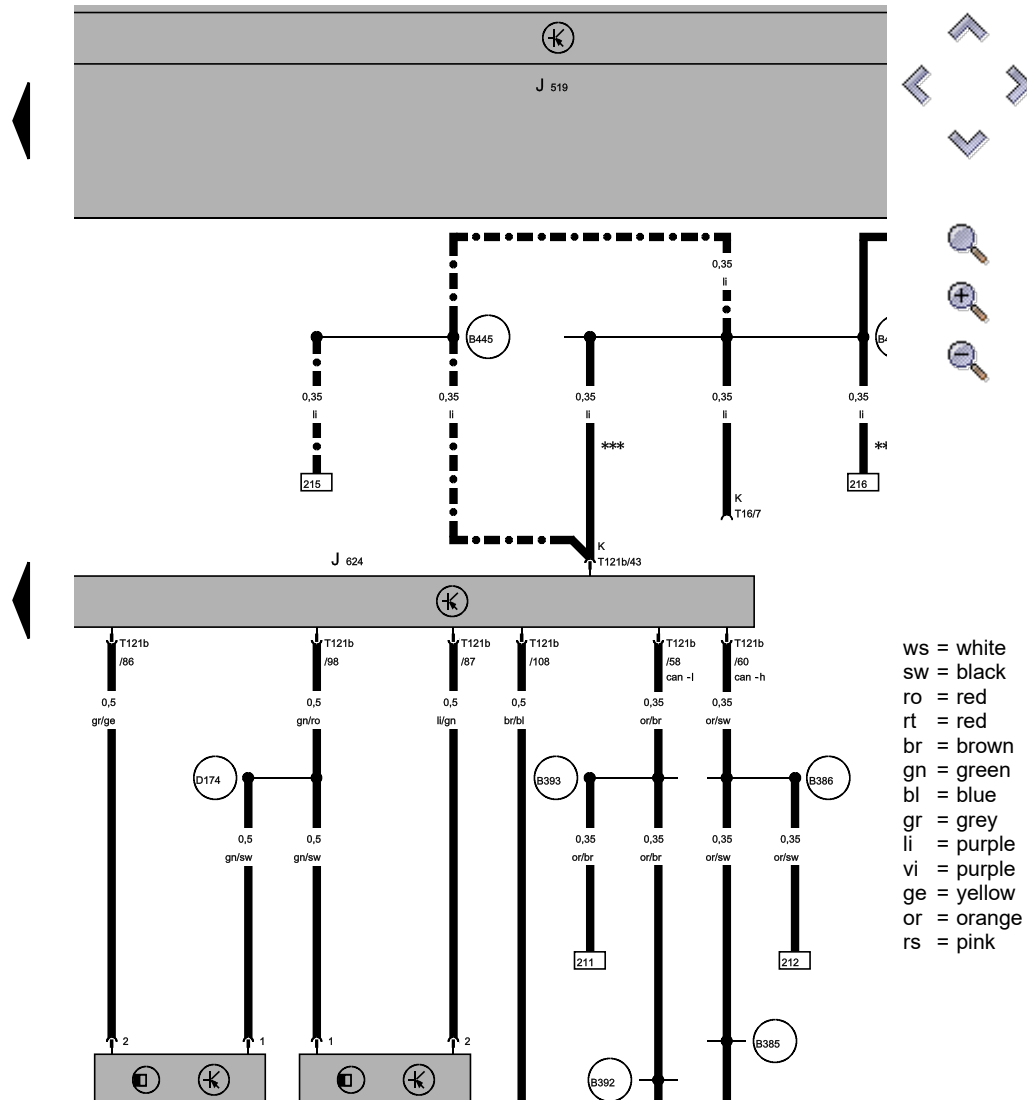


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Phaeton

Current Flow Diagram

No. 1 / 25



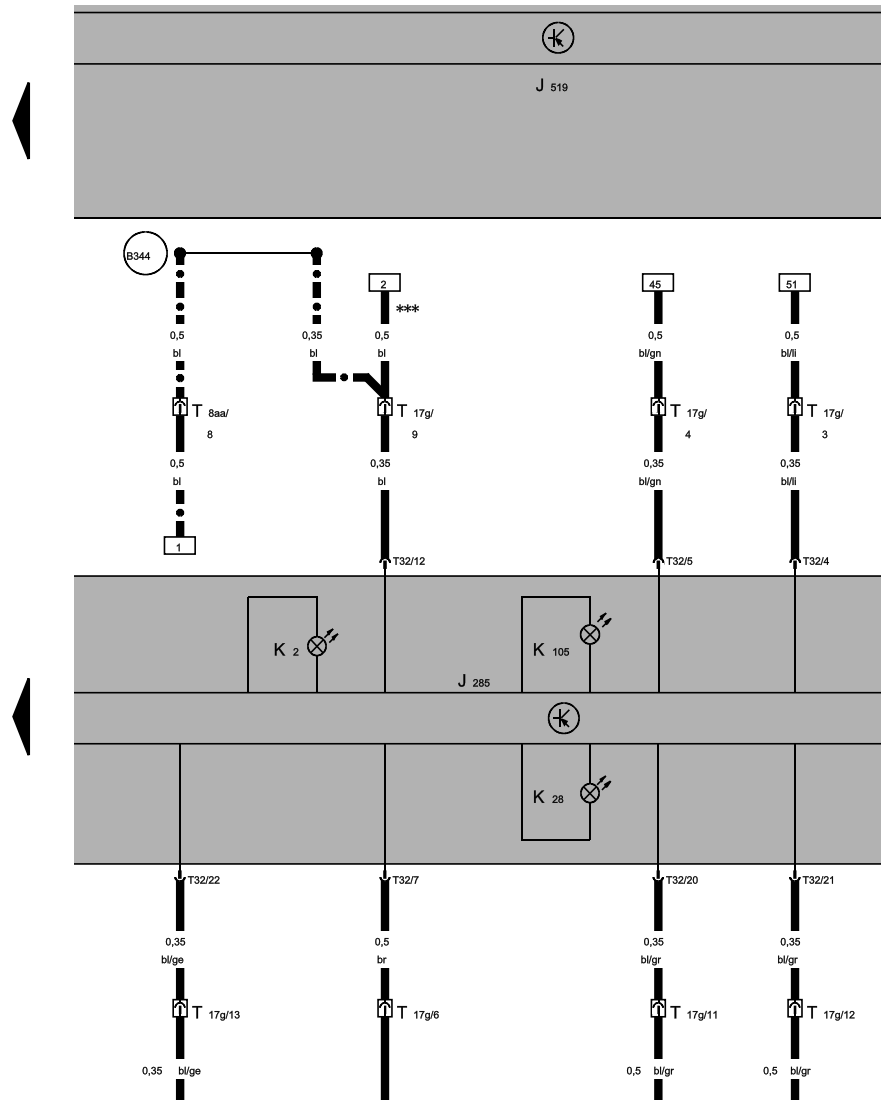
Engine control unit 2, dash panel insert, self-diagnosis connection, Hall sender 2, Hall sender 4

- G163 - Hall sender 2
- G301 - Hall sender 4
- J285 - Control unit in dash panel insert
- J519 - Onboard supply control unit
- J624 - Engine control unit 2
- T16 - 16-pin connector, on left under dash panel, self-diagnosis connection
- T17e - 17-pin connector, on left under dash panel
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- T121b - 121-pin connector
- 316 - Earth connection (sender earth 2) in engine wiring harness
- B383 - Connection 1 (powertrain CAN bus, high), in main wiring harness
- B385 - Connection 3 (powertrain CAN bus, high), in main wiring harness
- B386 - Connection 4 (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
- B393 - Connection 4 (powertrain CAN bus, low), in main wiring harness
- B444 - Connection 1 (diagnosis), in main wiring harness
- B445 - Connection 2 (diagnosis), in main wiring harness
- D174 - Connection 2 (5V) in engine prewiring harness
- *** - From August 2002
- - Up to July 2002

Phaeton

Current Flow Diagram

No. 1 / 26



Control unit in dash panel insert, sender for coolant shortage indicator, alternator warning lamp, fuel gauge sender 3 and 4, warning lamp for fuel reserve

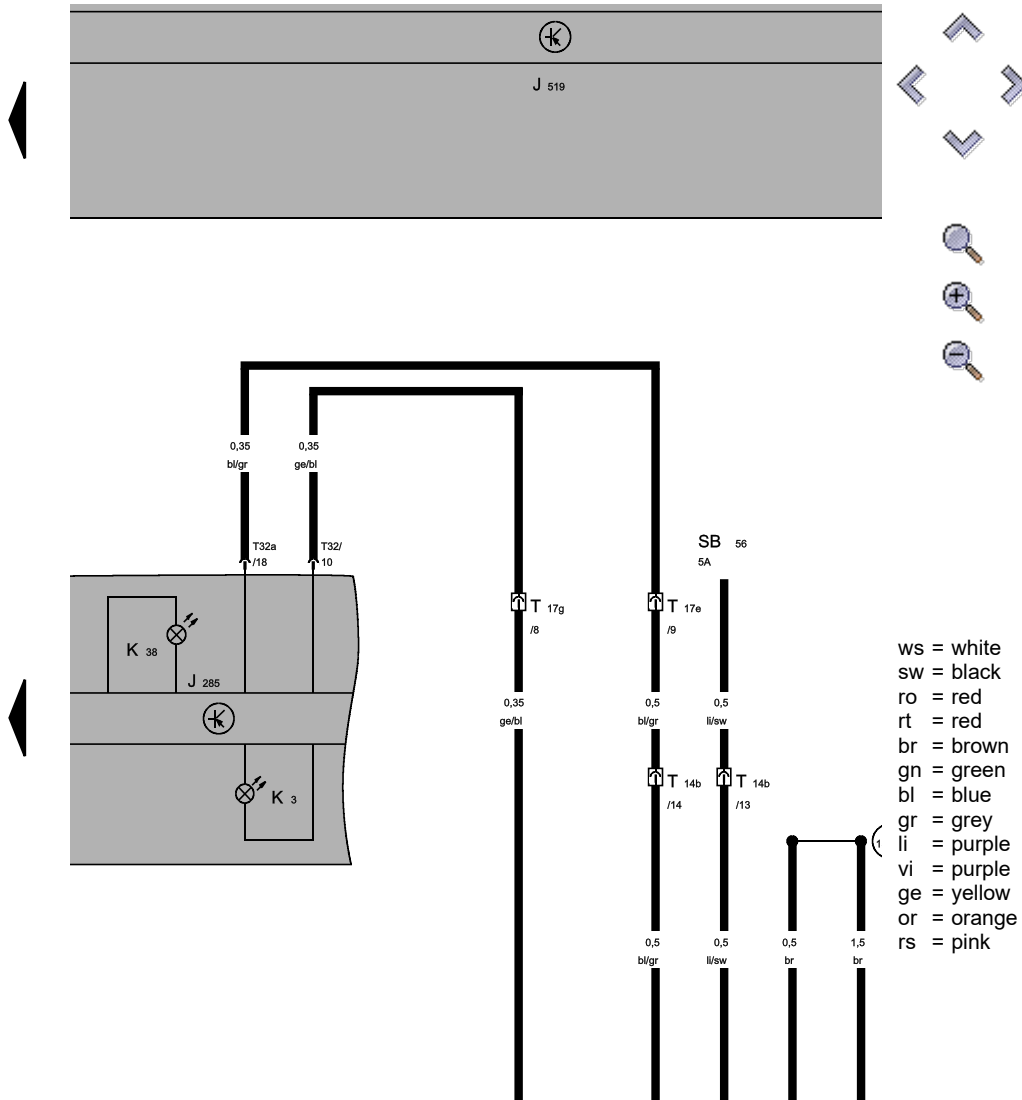
- G32 - Coolant shortage indicator sender
- G237 - Fuel gauge sender 3
- G393 - Fuel gauge sender 4
- J285 - Control unit in dash panel insert
- J519 - Onboard supply control unit
- K2 - Alternator warning lamp
- K28 - Coolant temperature and coolant shortage warning lamp
- K105 - Reserve fuel warning lamp
- T8aa - 8-pin connector, black, coupling point 3/engine prewiring harness
- T17g - 17-pin connector, on left under dash panel
- T32 - 32-pin connector, blue
- 393 - Earth connection 28, in main wiring harness
- 399 - Earth connection 34, in main wiring harness
- B344 - Connection 1 (61), in main wiring harness
- *** - From August 2002
- - Up to July 2002

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Current Flow Diagram

No. 1 / 27



Dash panel insert, oil level and oil temperature sender, oil pressure switch, oil pressure warning lamp, oil level warning lamp

- F1 - Oil pressure switch
- G266 - Oil level and oil temperature sender
- J285 - Control unit in dash panel insert
- J519 - Onboard supply control unit
- K3 - Oil pressure warning lamp
- K38 - Oil level warning lamp
- SB56 - Fuse 56 on fuse holder B
- T14b - 14-pin connector, coupling point 2/engine prewiring harness
- T17e - 17-pin connector, on left under dash panel
- T17g - 17-pin connector, on left under dash panel
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- 151 - Earth connection 1, in front wiring harness
- 650 - Earth point 6, on bulkhead

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