**1.6 I/75 kW Simos, engine code BFQ**

from May 2002

Notes:

For information concerning

- ♦ Position of relays and fuses
- ♦ Multi-pin connections
- ♦ Control units and relays
- ♦ Earth connections

→ List of Fitting Locations!

For information concerning

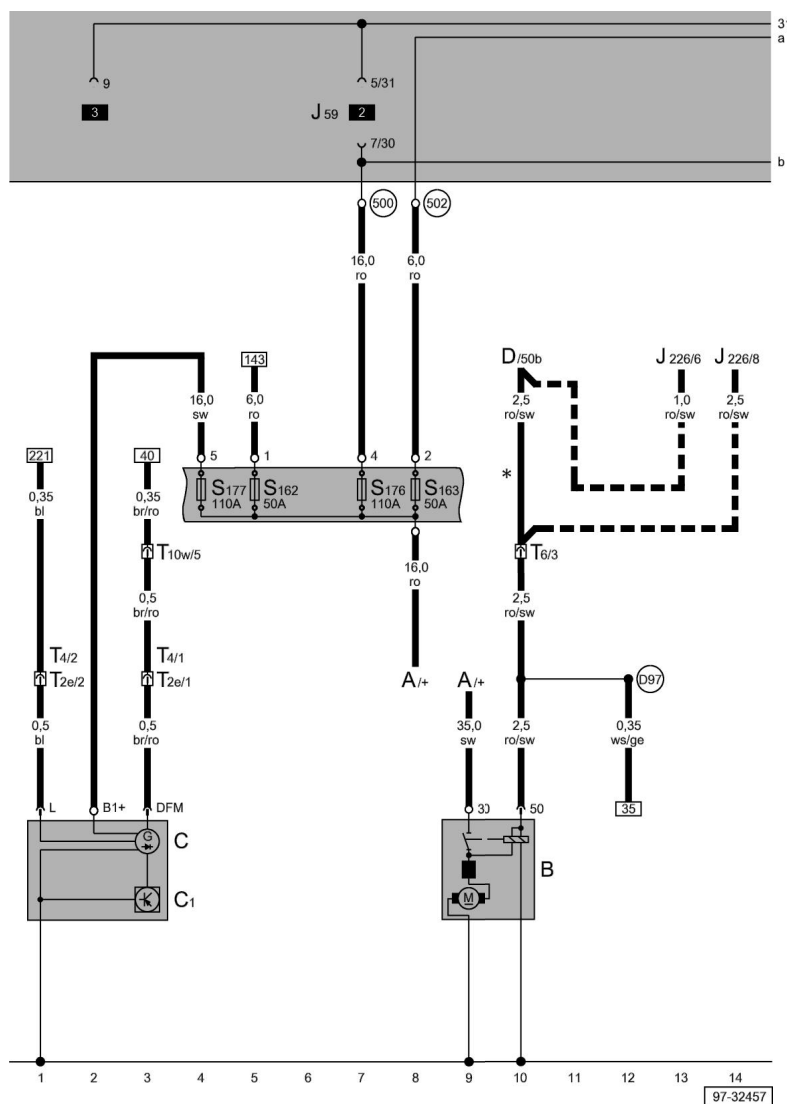
- ♦ Fault Finding Programs

→ guided fault finding

Golf/Bora

Current Flow Diagram

No. 103 / 2



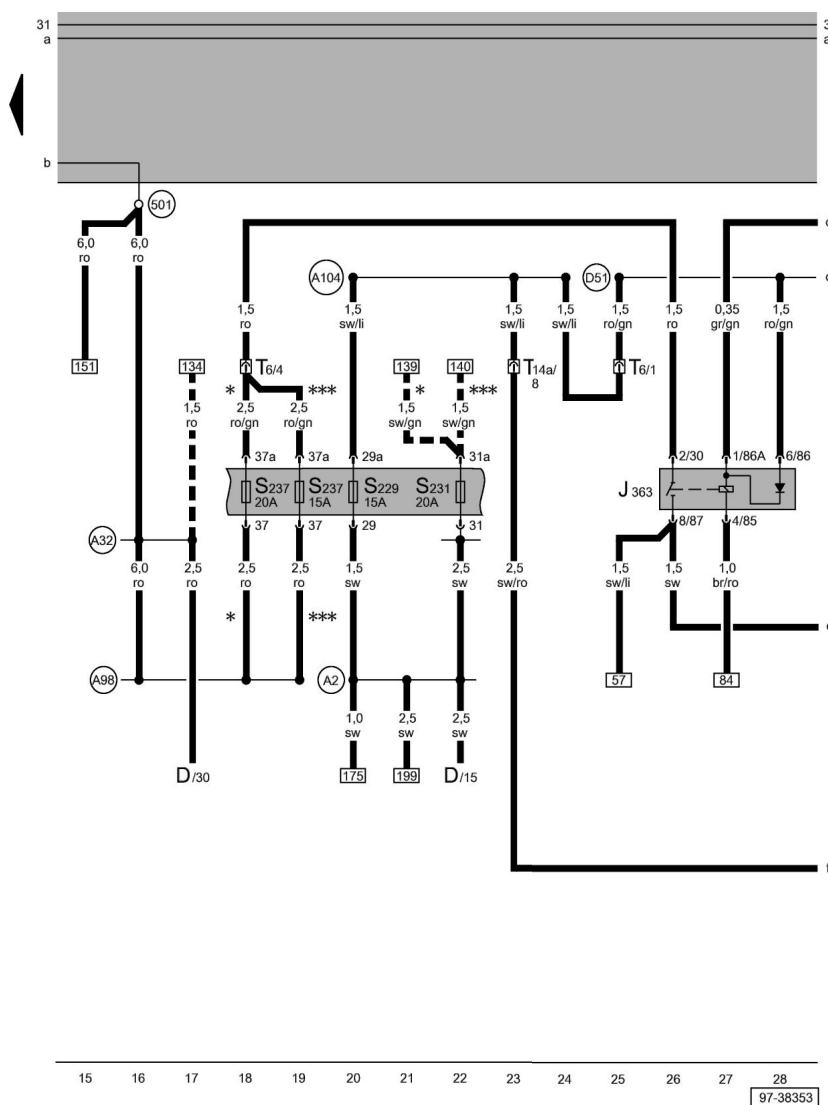
Alternator, starter

- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J59 - X-contact relief relay
- J226 - Starter inhibitor and reversing light relay, on the 13 position additional relay carrier
- S162 - Fuse 1 (30), in fuse holder on battery
- S163 - Fuse 2 (30), in fuse holder on battery
- S176 - Fuse 4 (30), in fuse holder on battery
- S177 - Fuse 5 (30), in fuse holder on battery
- T2e - 2-pin connector, near starter (in models without air conditioning system)
- T4 - 4-pin connector, near starter (in models with air conditioning system)
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- 500 - Screw connection 1 (30), on relay plate
- 502 - Screw connection (30a), on relay plate
- D97 - Connection (50), in engine compartment wiring harness
- * - only models with manual gearbox
- - models with automatic gearbox only

Golf/Bora

Current Flow Diagram

No. 103 / 3



Current supply relay for Simos control unit

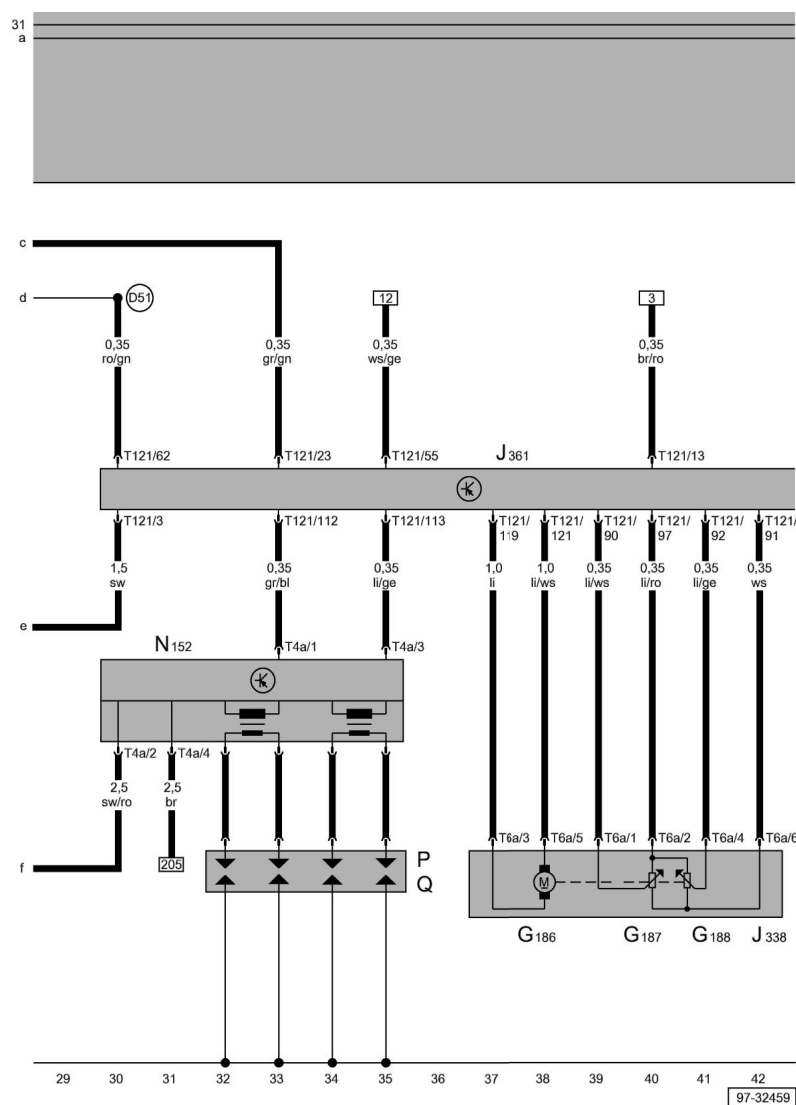
- D - Ignition/starter switch
- J363 - Current supply relay for Simos control unit, in protective housing on left in engine compartment (control number 429)
- S229 - Fuse 29 in fuse holder
- S231 - Fuse 31 in fuse holder
- S237 - Fuse 37 in fuse holder
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- 501 - Screw connection 2 (30), on relay plate
- A2 - Positive connection (15), in dash panel wiring harness
- A32 - Positive connection (30), in dash panel wiring harness
- A98 - Positive connection 4 (30), in dash panel wiring harness
- A104 - Positive connection 2 (15), in dash panel wiring harness
- D51 - Positive connection 1 (15), in engine compartment wiring harness
- * - from May 2003
- *** - up to April 2003
- - models with automatic gearbox only

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

Golf/Bora

Current Flow Diagram

No. 103 / 4



Simos control unit, ignition system, throttle valve module, throttle valve drive angle sender for electric throttle

- 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)
- J338 - Throttle valve module
- J361 - Simos control unit, in centre plenum chamber
- N152 - Ignition transformer
- P - Spark plug connector
- Q - Spark plugs
- T4a - 4-pin connector
- T6a - 6-pin connector
- T121 - 121-pin connector
- D51 - Positive connection 1 (15), in engine compartment wiring harness

Golf/Bora

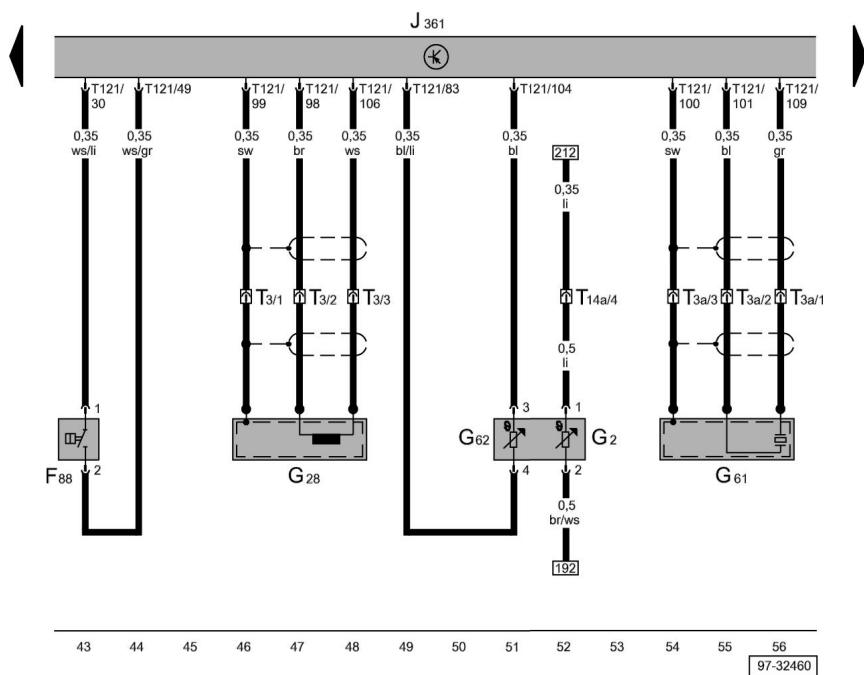
Current Flow Diagram

No. 103 / 5



Simos control unit, engine speed sender, power assisted steering pressure switch, coolant temperature sender, knock sensor

- F88 - Power assisted steering pressure switch
- G2 - Coolant temperature sender
- G28 - Engine speed sender
- G61 - Knock sensor 1
- G62 - Coolant temperature sender
- J361 - Simos control unit, in centre plenum chamber
- T3 - 3-pin connector, on front of engine
- T3a - 3-pin connector, on front of engine
- T14a - 14-pin connector, near battery
- T121 - 121-pin connector



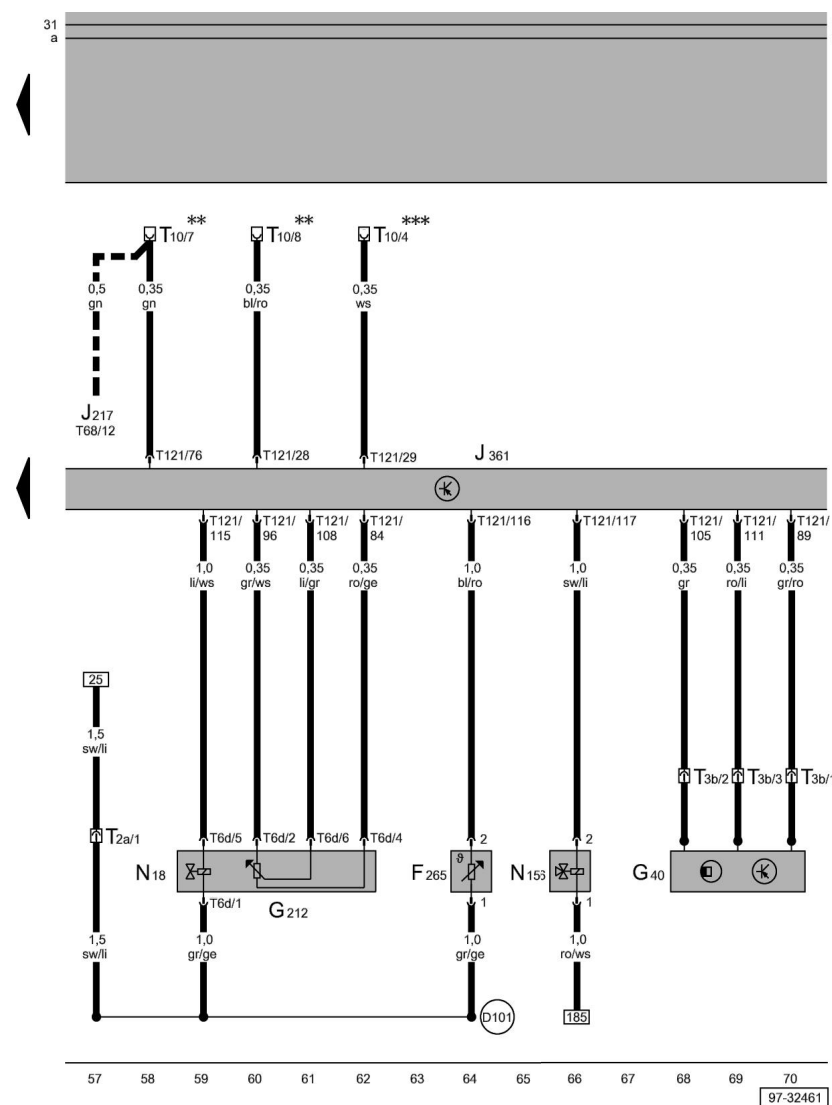
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- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

43 44 45 46 47 48 49 50 51 52 53 54 55 56
97-32460

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Current Flow Diagram

No. 103 / 6

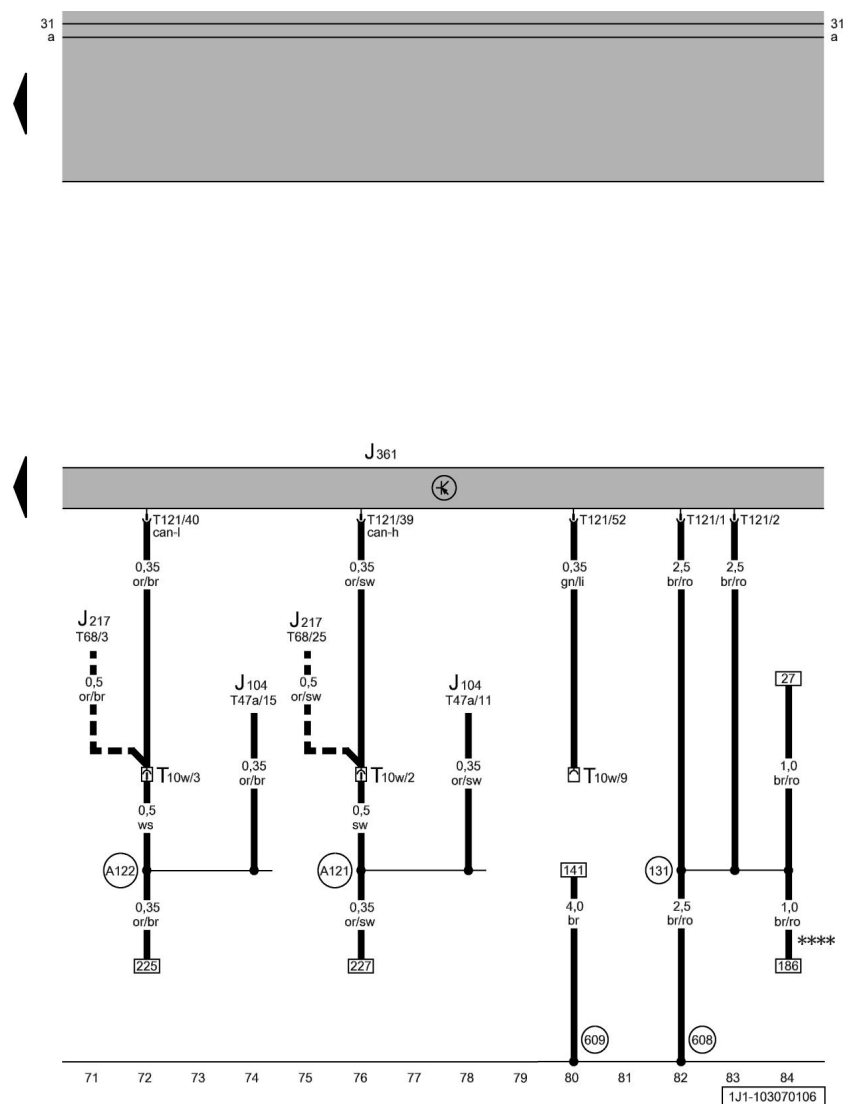


ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

Simos control unit, Hall sender, exhaust gas recirculation potentiometer, exhaust gas recirculation valve, variable intake manifold change-over valve, map-controlled engine cooling system thermostat

- F265 - Map-controlled engine cooling system thermostat
- G40 - Hall sender
- G212 - Exhaust gas recirculation potentiometer
- J217 - Automatic gearbox control unit, in centre plenum chamber
- J361 - Simos control unit, in centre plenum chamber
- N18 - Exhaust gas recirculation valve
- N156 - Variable intake manifold change-over valve
- T2a - 2-pin connector, in cable channel left in engine compartment
- T3b - 3-pin connector, on front of engine
- T6d - 6-pin connector
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T68 - 68-pin connector
- T121 - 121-pin connector
- D101 - Connection 1, in engine compartment wiring harness

- ** - connection air conditioning system
- - models with automatic gearbox only
- *** - radiator fan control unit connection



Simos control unit

- J104 - ABS/ABS control unit with EDL
- J217 - Automatic gearbox control unit
- J361 - Simos control unit, in centre plenum chamber
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- T47a - 47-pin connector, on ABS/ABS control unit with EDL/ ASR/ ESP
- T68 - 68-pin connector
- T121 - 121-pin connector
- 131 - Earth connection -2-, in engine compartment wiring harness
- 608 - Earth point, in centre of plenum chamber
- 609 - Earth point, on right in plenum chamber
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness

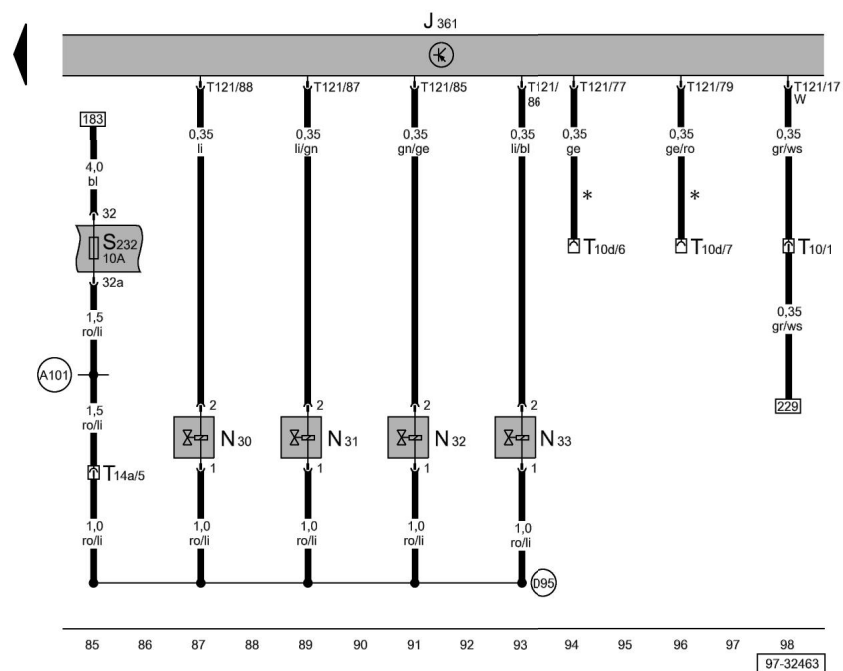
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

- - models with automatic gearbox only
- **** - models with heater element for crankcase breather only

Golf/Bora

Current Flow Diagram

No. 103 / 8



Simos control unit, injectors

- J361 - Simos control unit, in centre plenum chamber
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- S232 - Fuse 32 in fuse holder
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T10d - 10-pin connector, green, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- T121 - 121-pin connector
- A101 - Connection 3 (87), in dash panel wiring harness

- D95 - Connection (injectors), in engine compartment wiring harness

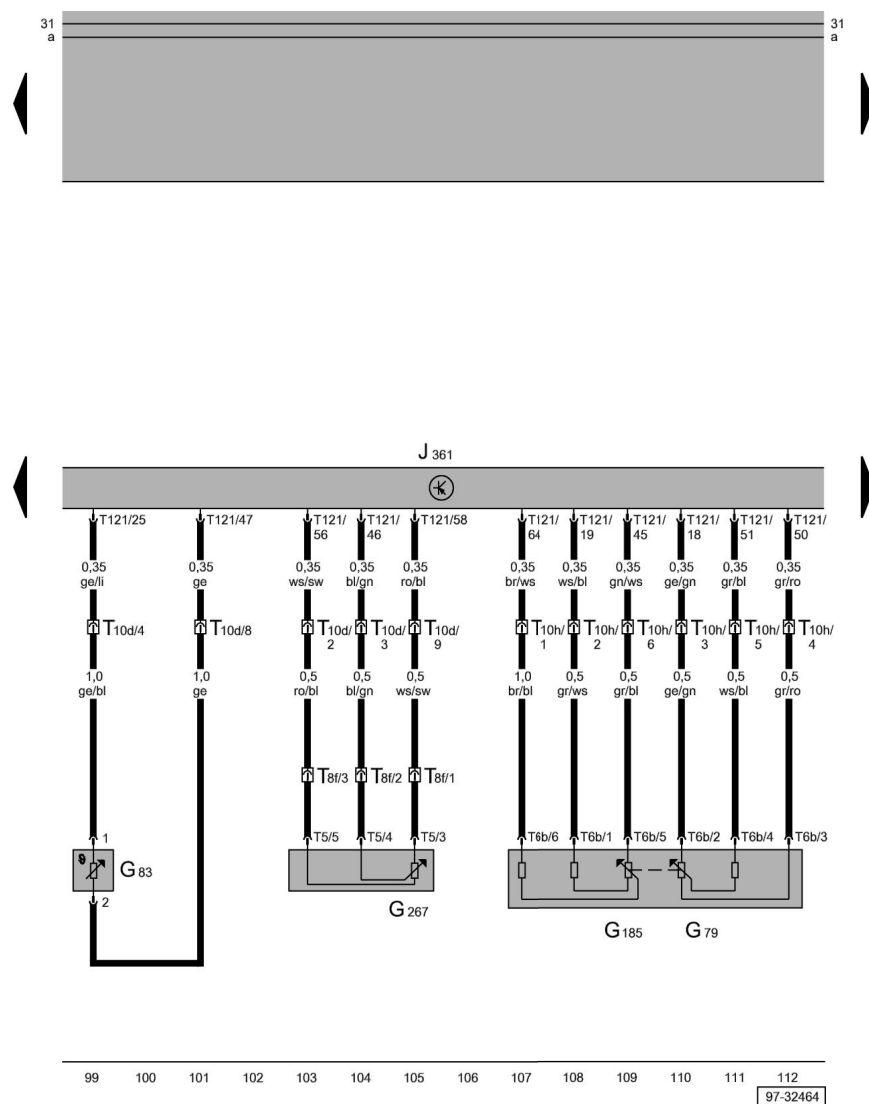
- * - Radiator fan control unit connection

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

Golf/Bora

Current Flow Diagram

No. 103 / 9



Simos control unit, radiator outlet coolant temperature sender, potentiometer, temperature selection rotary knob, accelerator position sender

- G79 - Accelerator position sender
- G83 - Radiator outlet coolant temperature sender
- G185 - Accelerator position sender -2-
- G267 - Potentiometer, temperature selection rotary knob
- J361 - Simos control unit, in centre plenum chamber
- T5 - 5-pin connector
- T6b - 6-pin connector
- T8f - 8-pin connector, behind centre dash panel
- T10d - 10-pin connector, green, in connector protective housing, on left in plenum chamber
- T10h - 10-pin connector, blue, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector

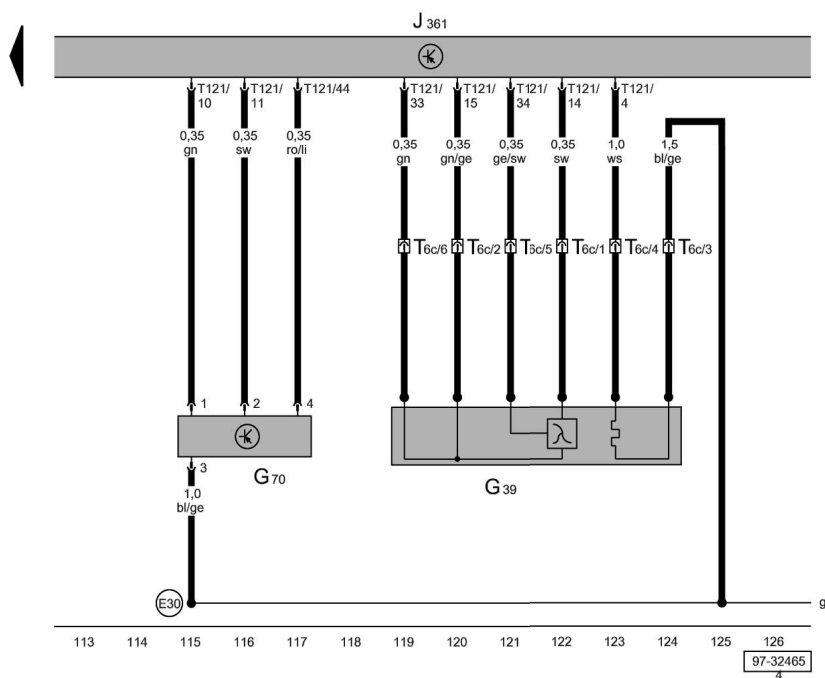
Golf/Bora

Current Flow Diagram

No. 103 / 10

Simos control unit, air mass meter, lambda probe

- G39 - Lambda probe
- G70 - Air mass meter
- J361 - Simos control unit, in centre plenum chamber
- T6c - 6-pin connector, near catalytic converter
- T121 - 121-pin connector
- E30 - Connection (87a), in engine wiring harness



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

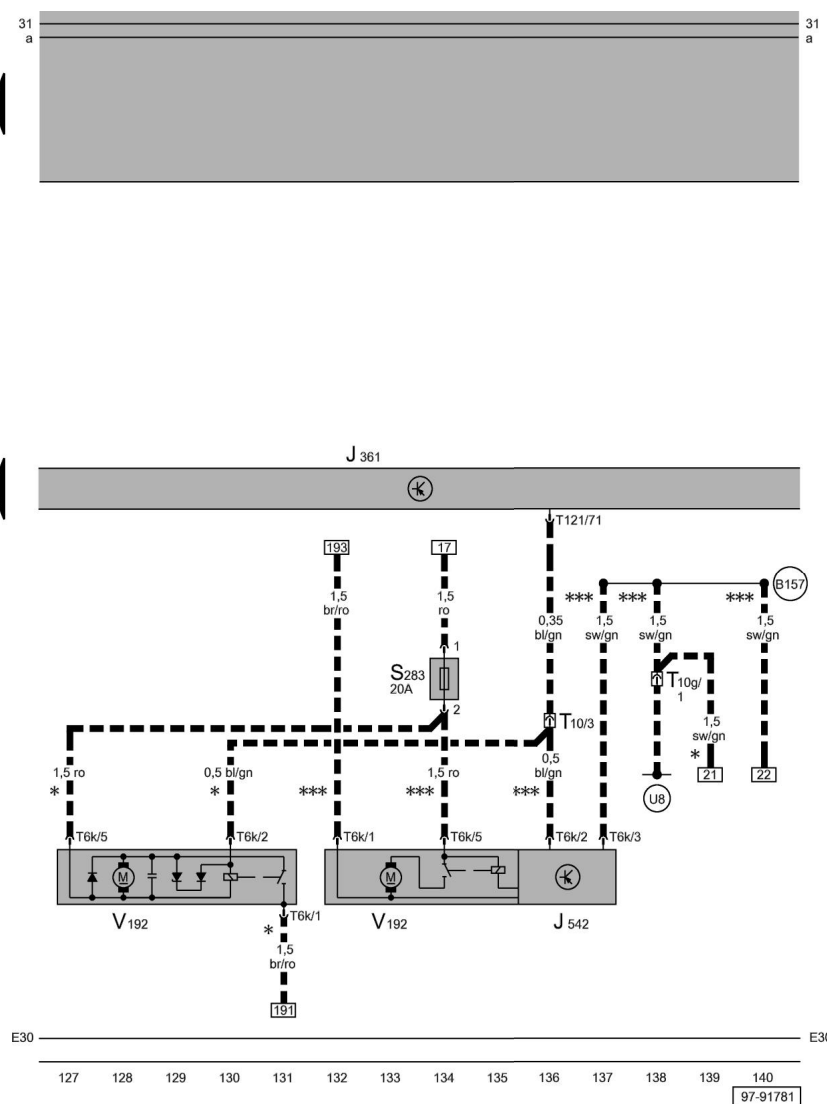
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Current Flow Diagram

No. 103 / 11

Simos control unit, brake servo control unit, vacuum pump for brakes

- J361 - Simos control unit, in centre plenum chamber
- J542 - Brake servo control unit
- S283 - Brake vacuum pump fuse, above the relay plate
- T6k - 6-pin connector
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T10g - 10-pin connector, grey, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector
- V192 - Vacuum pump for brakes
- B157 - Positive connection 3 (15a), in interior wiring harness
- U8 - Positive connection (15a), in automatic gearbox wiring harness
- * - from May 2003
- *** - up to April 2003
- - models with automatic gearbox only

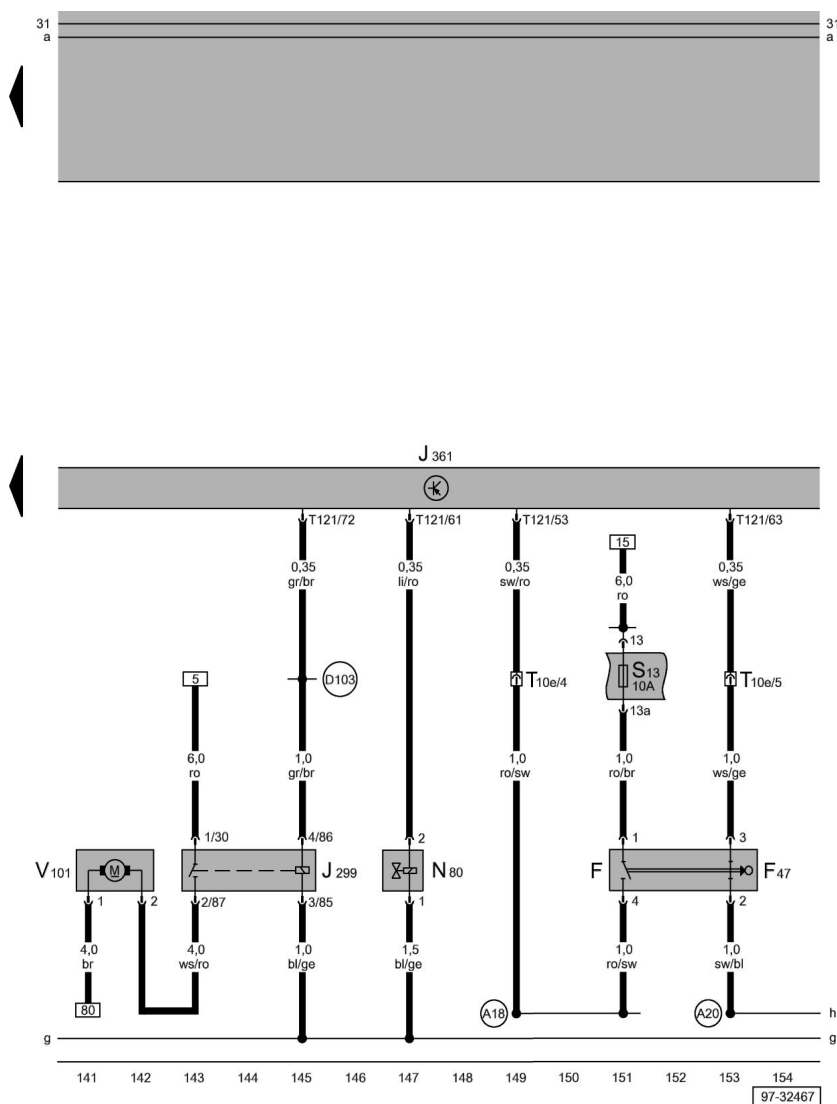


ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

Golf/Bora

Current Flow Diagram

No. 103 / 12



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

Simos control unit, secondary air pump motor, cruise control system brake pedal switch, brake light switch, active charcoal filter system solenoid valve

- F - Brake light switch
- F47 - Cruise control system brake pedal switch
- J299 - Secondary air pump relay, in protective housing on left in engine compartment (control number 100)
- J361 - Simos control unit, in centre plenum chamber
- N80 - Activated charcoal filter system solenoid valve 1
- S13 - Fuse 13 in fuse holder
- T10e - 10-pin connector, black, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector
- V101 - Secondary air pump motor
- A18 - Connection (54), in dash panel wiring harness
- A20 - Connection (15a), in dash panel wiring harness
- D103 - Connection 3, in engine compartment wiring harness
- D104 - Positive connection 2 (30a), in engine compartment wiring harness

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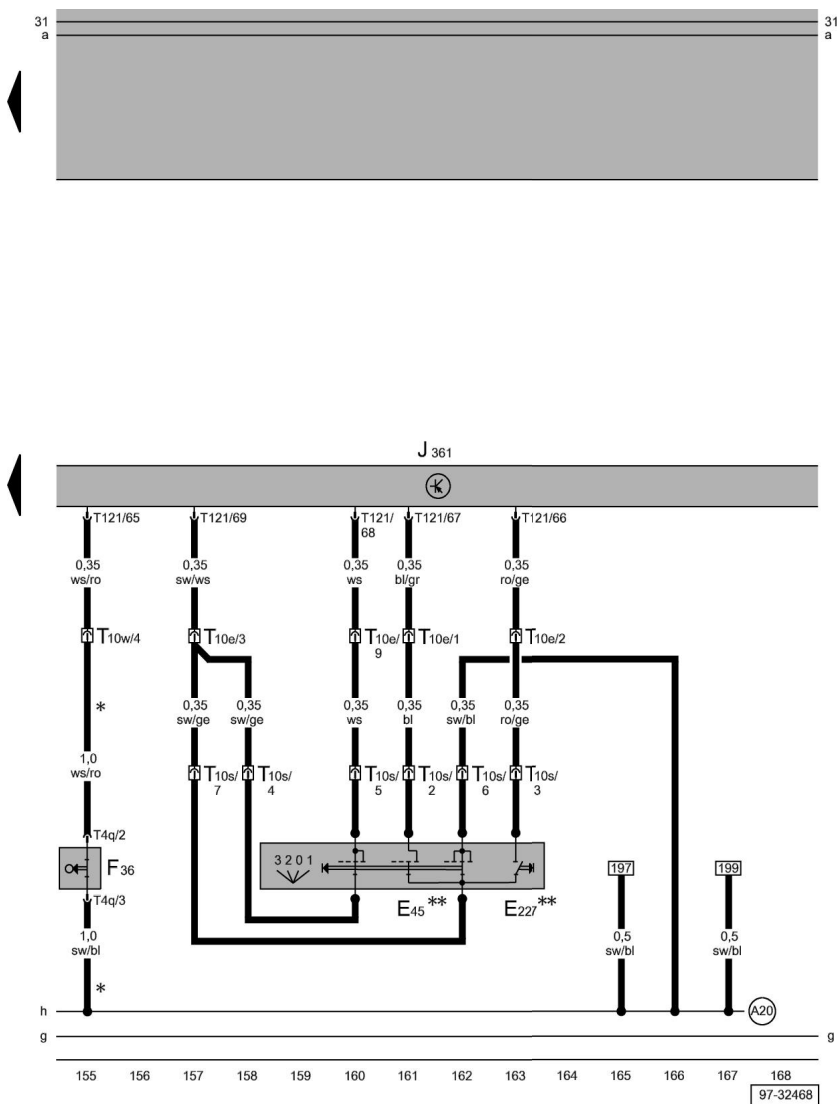
Current Flow Diagram

No. 103 / 13

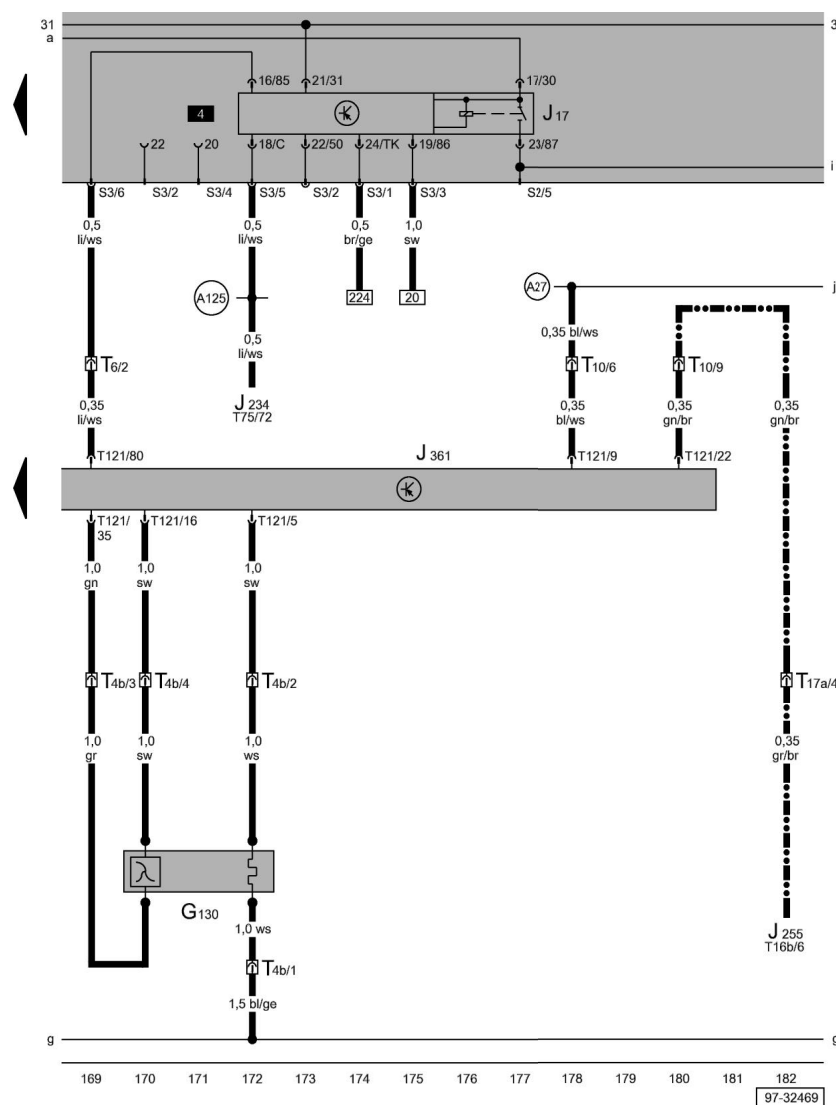
Simos control unit, cruise control system switch, clutch pedal switch

- E45 - Cruise control system switch**
- E227 - Cruise control system (CCS) SET button**
- F36 - Clutch pedal switch*
- J361 - Simos control unit, in centre plenum chamber
- T4q - 4-pin connector
- T10e - 10-pin connector, black, in connector protective housing, on left in plenum chamber
- T10s - 10-pin connector, next to steering column
- T10w - 10-pin connector, white, in connector protective housing, on left in plenum chamber
- T121 - 121-pin connector
- A20 - Connection (15a), in dash panel wiring harness

- * - only models with manual gearbox
- ** - only models with GND, models with multifunction display □
Current Flow Diagram multifunction steering wheel for cruise control system and radio



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



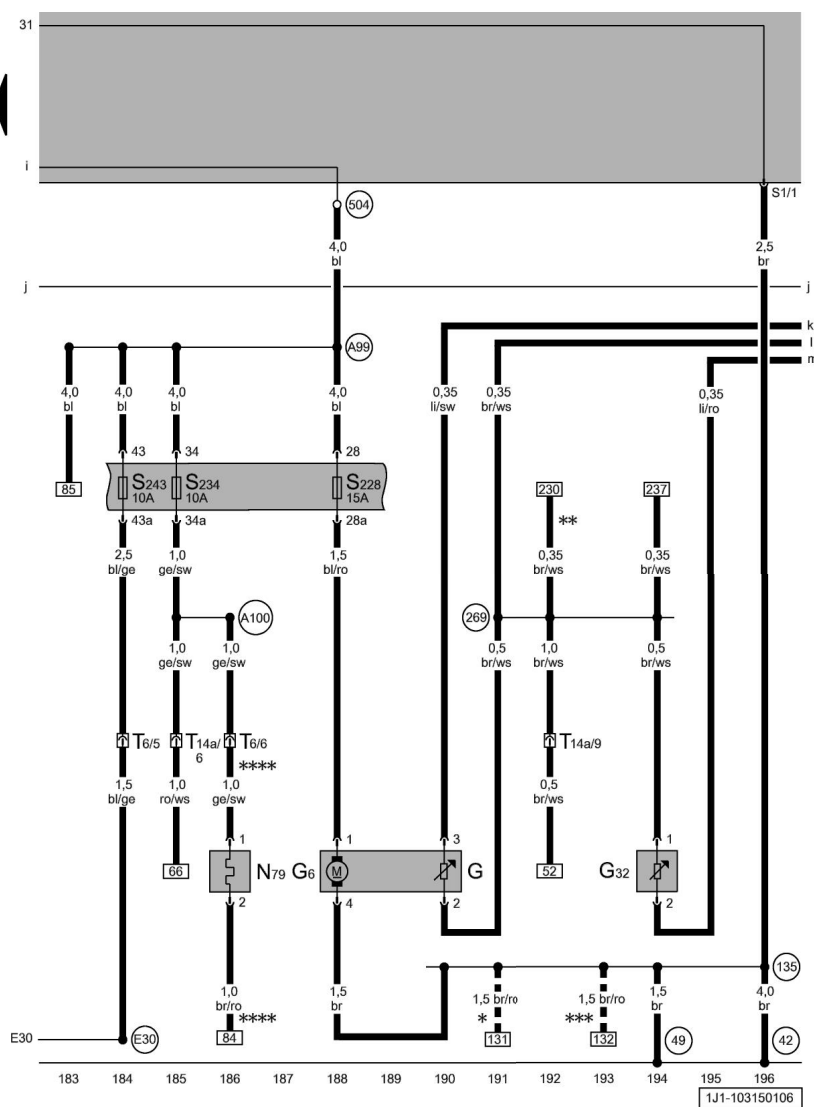
Simos control unit, lambda probe after catalytic converter, fuel pump relay

- G130 - Lambda probe after catalytic converter
- J17 - Fuel pump relay
- J234 - Airbag control unit, behind the lower console
- J255 - Climatronic control unit
- J361 - Simos control unit, in centre plenum chamber
- T4b - 4-pin connector, near catalytic converter
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T10 - 10-pin connector, orange, in connector protective housing, on left in plenum chamber
- T16b - 16-pin connector
- T17a - 17-pin connector, behind centre dash panel
- T75 - 75-pin connector
- T121 - 121-pin connector
- A27 - Connection (speed signal), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- - only models with Climatronic

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

Current Flow Diagram

No. 103 / 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

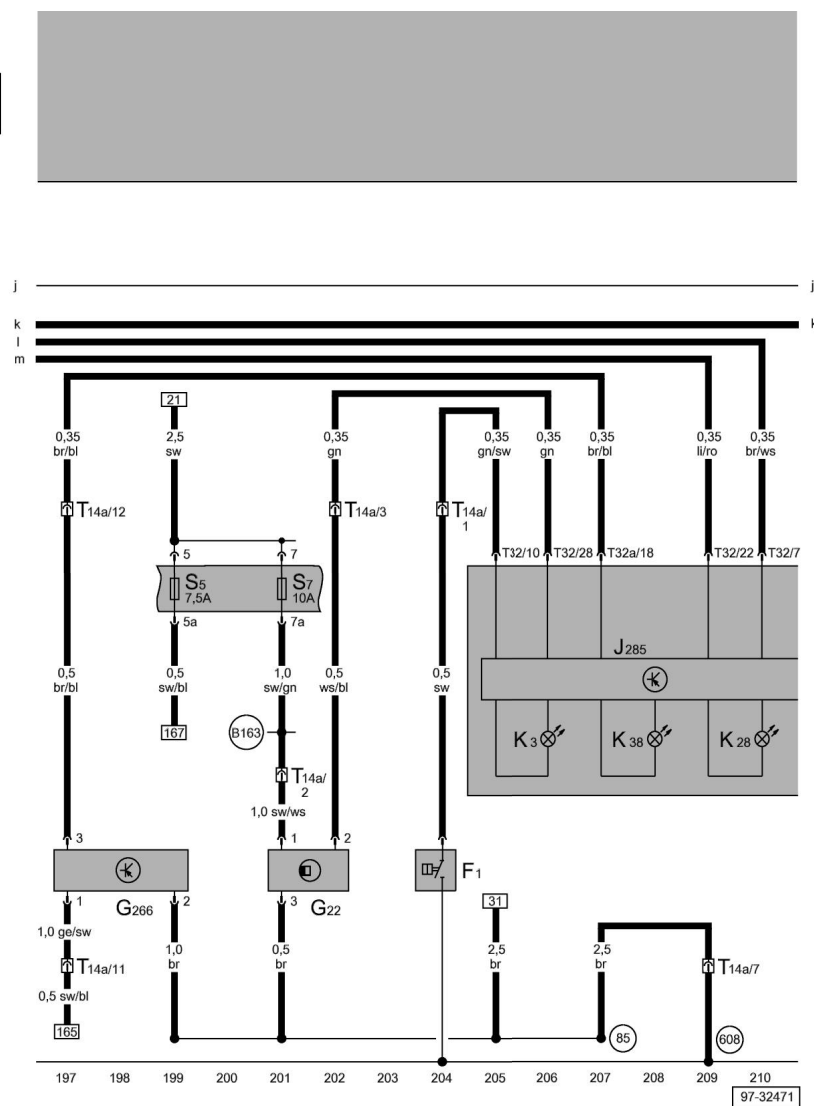
Fuel pump, fuel gauge sender, coolant shortage indicator sender, heater element for crankcase breather

- G - Fuel gauge sender
- G6 - Fuel pump
- G32 - Coolant shortage indicator sender
- N79 - Heater element for crankcase breather
- S228 - Fuse 28 in fuse holder
- S234 - Fuse 34 in fuse holder
- S243 - Fuse 43 in fuse holder
- T6 - 6-pin connector, brown, in connector protective housing, on left in plenum chamber
- T14a - 14-pin connector, near battery
- 42 - Earth point, next to steering column
- 49 - Earth point, on steering column
- 135 - Earth connection 2, in dash panel wiring harness
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness
- 504 - Screw connection (87F), on relay plate
- A99 - Connection 1 (87), in dash panel wiring harness
- A100 - Connection 2 (87), in dash panel wiring harness
- E30 - Connection (87a), in engine wiring harness
- * - from May 2003
- *** - up to April 2003
- - models with automatic gearbox only
- ** - only models without Climatronic
- **** - models with heater element for crankcase breather only

Golf/Bora

Current Flow Diagram

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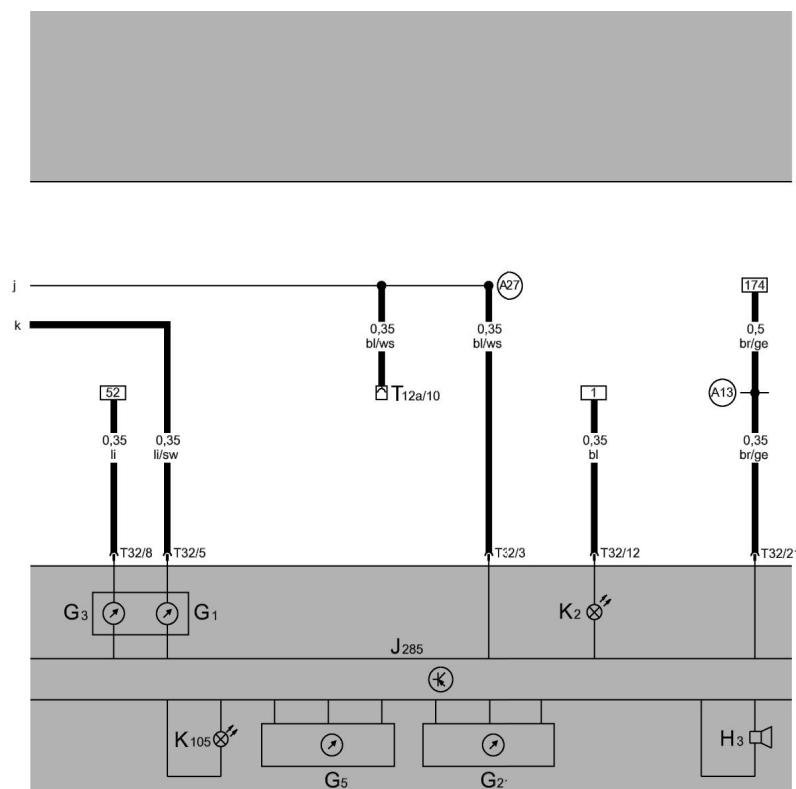
Dash panel insert, oil pressure warning, oil level/oil temperature sender, speedometer sender, coolant temperature/coolant shortage warning lamp

- F1 - Oil pressure switch
- G22 - Speedometer sender (Hall sender, on gearbox)
- G266 - Oil level and oil temperature sender
- J285 - Control unit with display in dash panel insert
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K38 - Oil level warning lamp*
- S5 - Fuse 5 in fuse holder
- S7 - Fuse 7 in fuse holder
- T14a - 14-pin connector, near battery
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- 85 - Earth connection -1-, in engine compartment wiring harness
- 608 - Earth point, in centre of plenum chamber
- B163 - Positive connection 1 (15), in interior wiring harness
- * - only flexible service interval display

Golf/Bora

Current Flow Diagram

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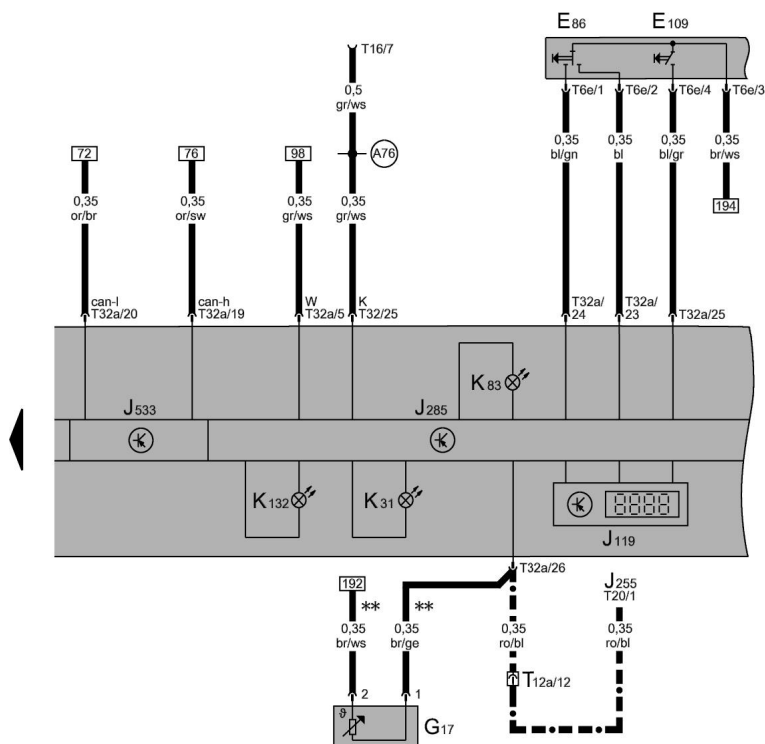
Dash panel insert, coolant temperature gauge, fuel gauge, rev. counter, speedometer, alternator warning lamp

- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G21 - Speedometer
- H3 - Warning buzzer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- K105 - Reserve fuel warning lamp
- T12a - 12-pin connector, Climatronic connection only
- T32 - 32-pin connector, blue
- A13 - Connection (door contact switch), in dash panel wiring harness
- A27 - Connection (speed signal), in dash panel wiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
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Current Flow Diagram

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Dash panel insert, electronic power control fault lamp, cruise control system warning lamp, multifunction display, ambient temperature indicator, exhaust emissions warning lamp, self-diagnosis connection

- E86 - Multifunction display call-up button
- E109 - Multifunction display memory switch
- G17 - Ambient temperature sensor
- J119 - Multifunction display
- J255 - Climatronic control unit
- J285 - Control unit in dash panel insert
- J533 - Data bus diagnostic interface, in dash panel insert
- K31 - Cruise control system warning lamp
- K83 - Exhaust emissions warning lamp
- K132 - Electric power control fault lamp
- T6e - 6-pin connector
- T12a - 12-pin connector, behind centre dash panel
- T16 - 16-pin connector, in centre dash panel, self-diagnosis connection
- T20 - 20-pin connector
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- A76 - Connection (diagnosis wire K), in dash panel wiring harness

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

- ** - only models without Climatronic
- - only models with Climatronic