

Golf/Vento

Current Flow Diagram

No. 19 / 1

Edition 08.2006

1.9 l/81 kW - Turbodiesel engine, engine code AFN

from January 1996

1.9 l/81 kW - Turbodiesel engine, engine code AVG

from January 2000

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

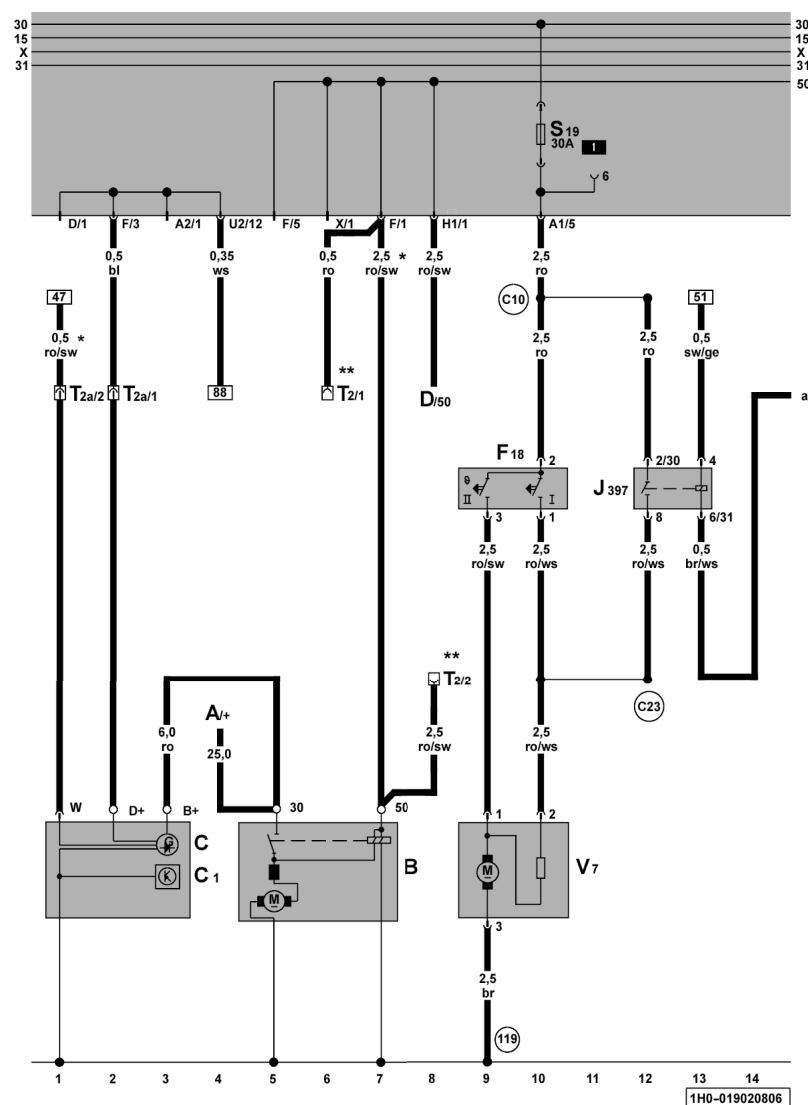
- ◆ Fault Finding Programs

→ guided fault finding

Golf/Vento

Current Flow Diagram

No. 19 / 2



Starter, alternator, radiator fan

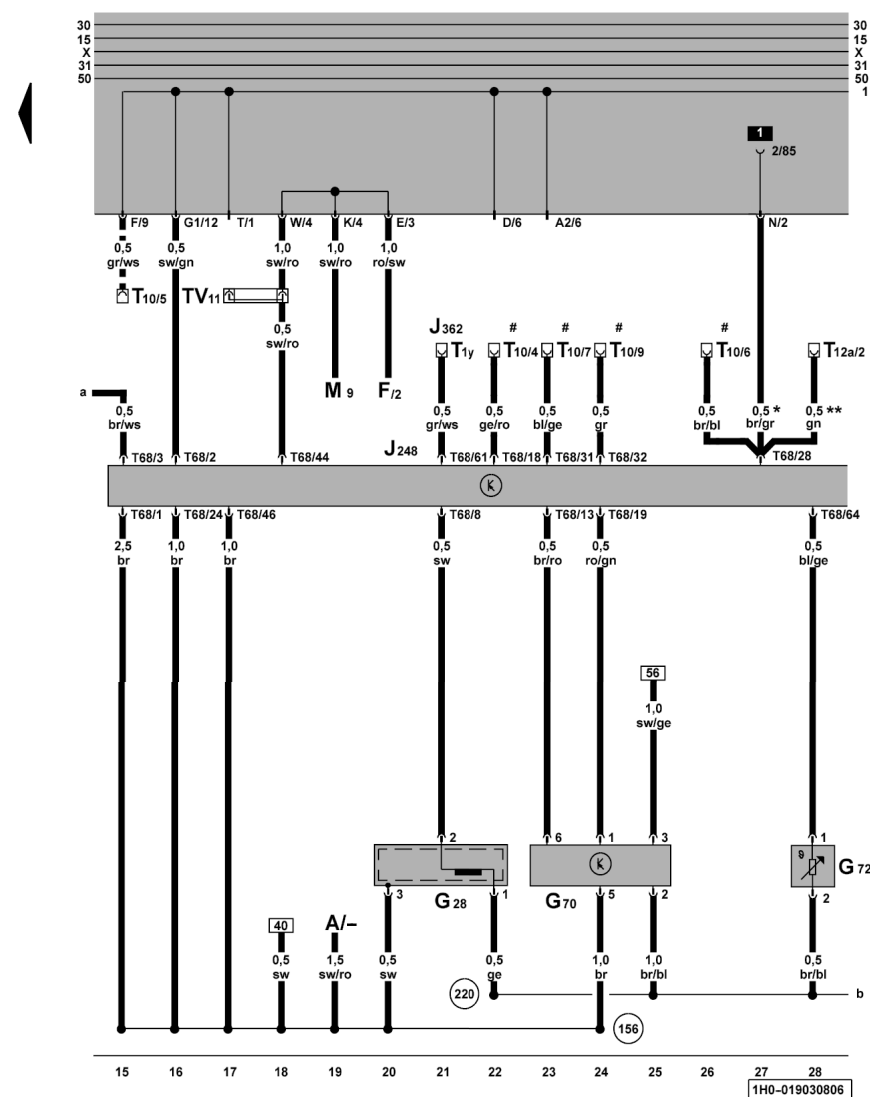
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- F18 - Thermal switch for radiator fan
- J397 - Radiator fan run-on relay (53), above the relay plate
- T2a - 2-pin connector, near battery
- V7 - Radiator fan
- 119 - Earth connection 1, in headlight wiring harness
- C10 - Positive connection 1 (30), in headlight wiring harness
- C23 - Connection (radiator fan speed I), in headlight wiring harness
- * - only manual gearbox
- ** - only automatic gearbox

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

Golf/Vento

Current Flow Diagram

No. 19 / 3



Diesel direct injection system control unit, engine speed sender, air mass meter

- A - Battery
- F - Brake light switch
- G28 - Engine speed sender
- G70 - Air mass meter, in engine compartment, front right
- G72 - Intake manifold temperature sender
- J248 - Diesel direct injection system control unit, in centre plenum chamber
- J362 - Immobilizer control unit
- M9 - Left brake light bulb
- T1y - Single connector, behind the relay plate
- T10 - 10-pin connector, behind the relay plate
- T12a - 12-pin connector, behind the relay plate
- TV11 - Terminal 54 wiring junction, above the relay plate
- 156 - Earth connection, in diesel direct injection wiring harness
- 220 - Earth connection (sender earth), in engine wiring harness

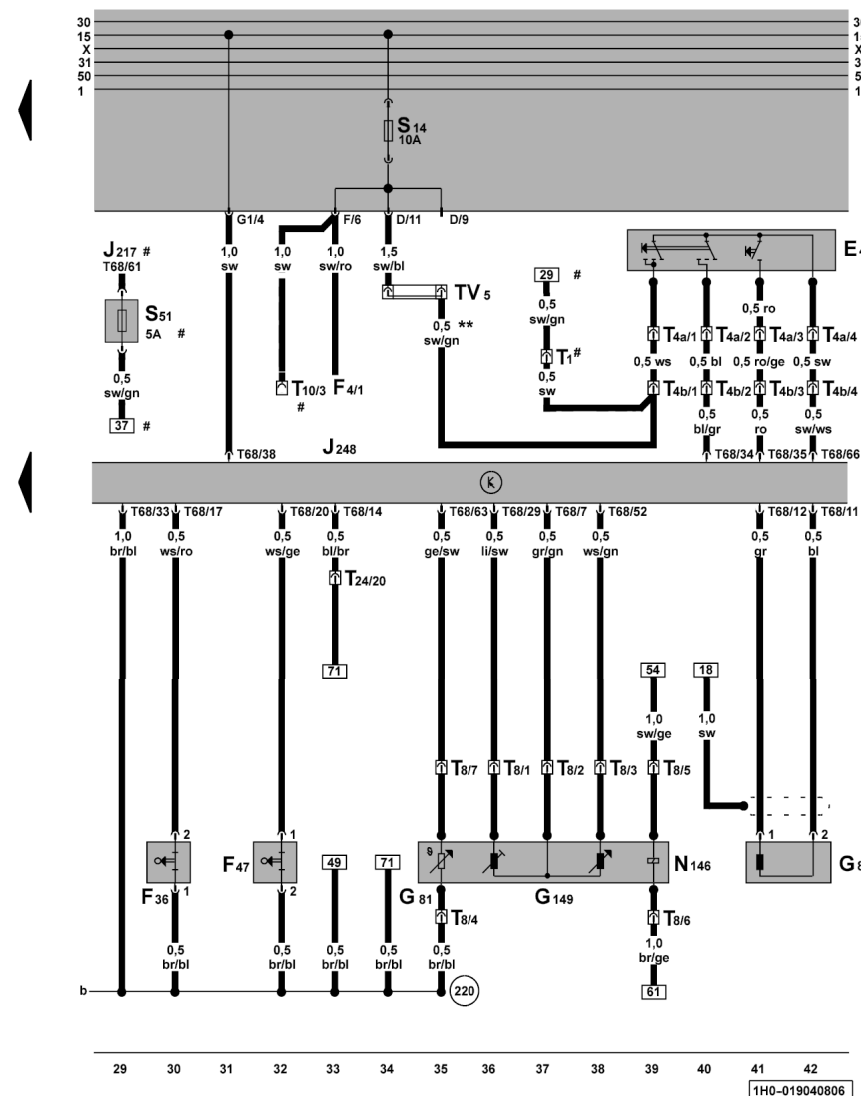
- * - only air conditioning system
- ** - only Climatronic
- # - only automatic gearbox

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/Vento

Current Flow Diagram

No. 19 / 4



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

Diesel direct injection system control unit, needle lift sender, modulating piston movement sender

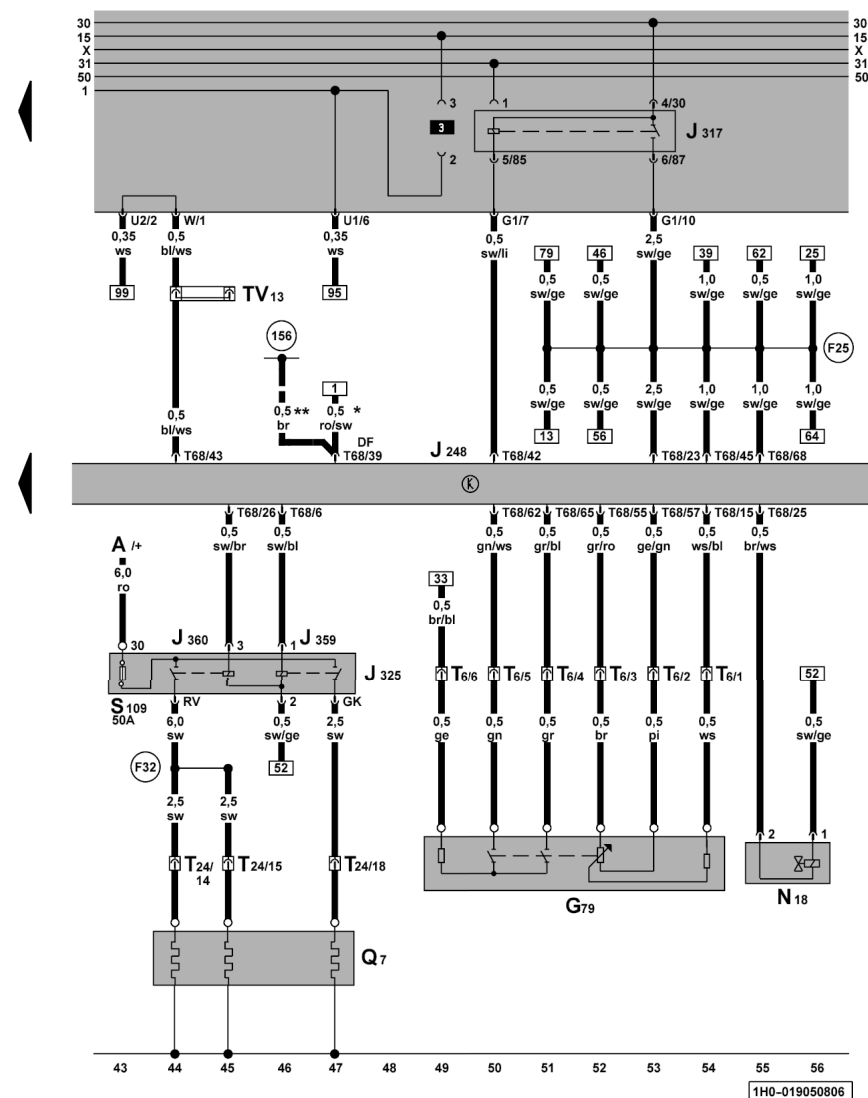
- E45 - Cruise control system switch
- F4 - Reversing light switch
- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch/diesel direct injection system
- G80 - Needle lift sender
- G81 - Fuel temperature sender
- G149 - Modulating piston movement sender
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in centre plenum chamber
- N146 - Metering adjuster
- S51 - Fuse, above the relay plate
- T1 - Single connector, behind the relay plate
- T4a - 4-pin connector, behind steering column switch trim
- T4b - 4-pin connector, next to steering column
- T8 - 8-pin connector
- T10 - 10-pin connector, behind the relay plate
- T24 - 24-pin connector, on engine
- T68 - 68-pin connector
- TV5 - Terminal 15a wiring junction
- 220 - Earth connection (sender earth), in engine wiring harness

- * - only models with cruise control system
- ** - only manual gearbox
- # - only automatic gearbox

Golf/Vento

Current Flow Diagram

No. 19 / 5



Diesel direct injection system control unit, accelerator position sender, glow plugs - coolant

- A - Battery
- G79 - Accelerator position sender
- J248 - Diesel direct injection system control unit, in centre plenum chamber
- J317 - Terminal 30 voltage supply relay
- J325 - Coolant heater element relay, on centre bulkhead
- J359 - Low heat output relay
- J360 - High heat output relay
- N18 - Exhaust gas recirculation valve, in engine compartment, front right
- Q7 - Glow plugs, coolant
- S109 - Glow plug fuse - (coolant)
- T6 - 6-pin connector, in front left footwell
- T24 - 24-pin connector, on engine
- T68 - 68-pin connector, on control unit
- TV13 - Speed signal wiring junction
- 156 - Earth connection, in diesel direct injection wiring harness
- F25 - Connection 1, in diesel direct injection system wiring harness
- F32 - Connection (glow plugs, coolant) in diesel direct injection system wiring harness
- * - only manual gearbox
- ** - only automatic gearbox

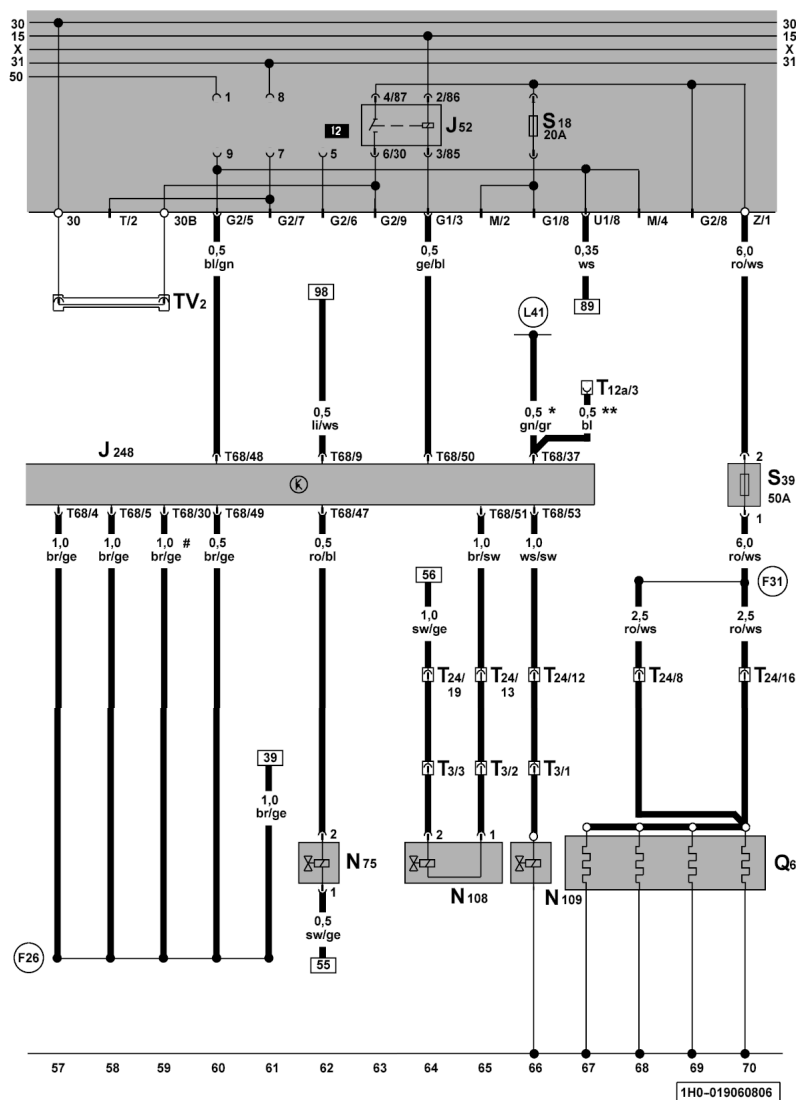
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 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
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Golf/Vento

Current Flow Diagram

No. 19 / 6



Diesel direct injection system control unit, fuel shut-off valve, glow plugs - engine

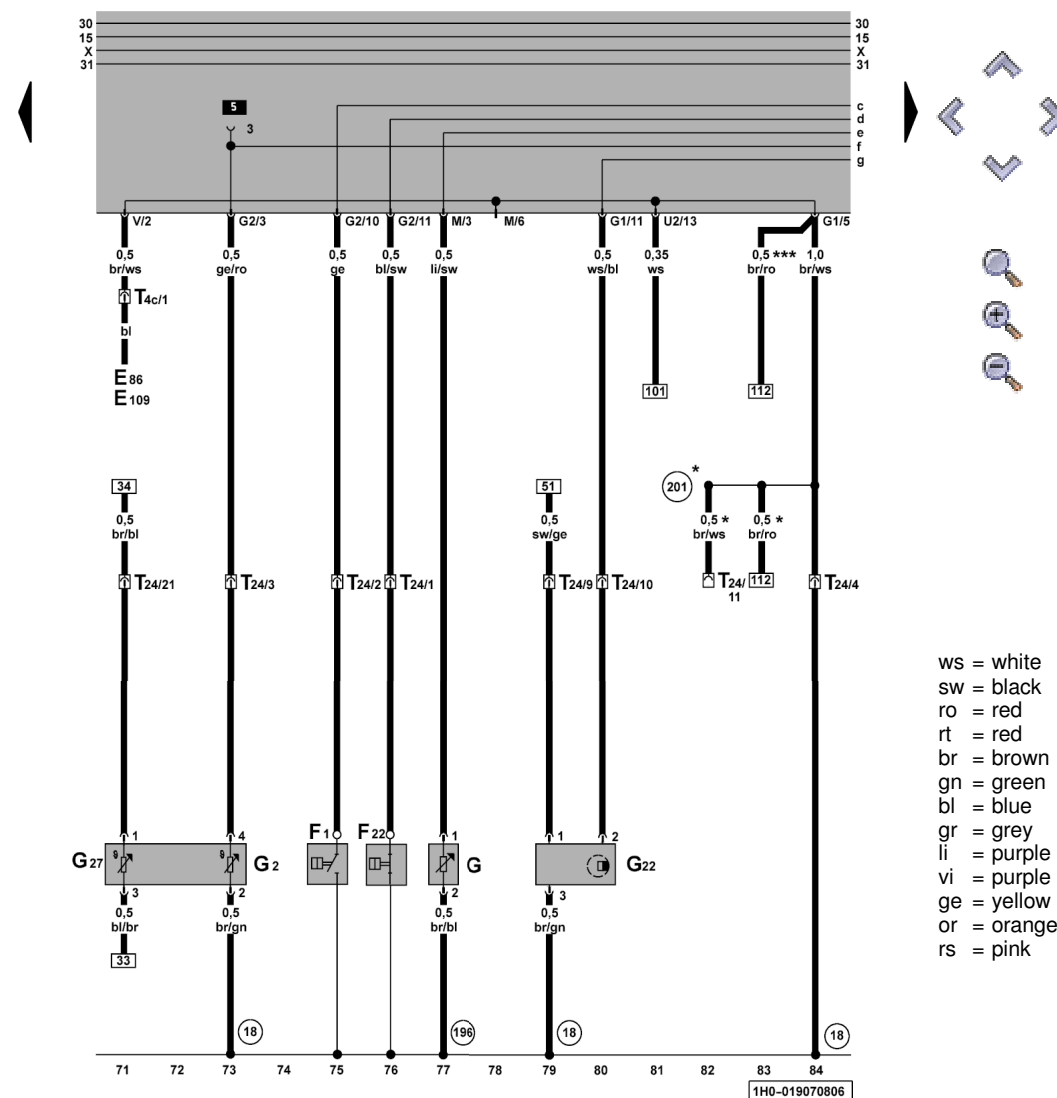
- J52 - Glow plug relay
- J248 - Diesel direct injection system control unit, in centre plenum chamber
- N75 - Charge pressure control solenoid valve
- N108 - Commencement of injection valve
- N109 - Fuel shut-off valve
- Q6 - Glow plugs - engine
- S39 - Glow plug fuse, above the relay plate
- T3 - 3-pin connector, in centre engine compartment
- T12a - 12-pin connector, behind the relay plate
- T24 - 24-pin connector, on engine
- T68 - 68-pin connector, on engine
- TV2 - Terminal 30 wiring junction, above the relay plate
- F26 - Connection 2, in diesel direct injection system wiring harness
- F31 - Connection (engine glow plugs), in diesel direct injection system wiring harness
- L41 - Connection (air conditioning system on), in air conditioning system/radiator fan wiring harness
- * - only air conditioning system
- ** - only Climatronic
- # - from March 1998 not exist

ws = white
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Golf/Vento

Current Flow Diagram

No. 19 / 7



Engine temperature sender, oil pressure switch, speedometer sender

- E86 - Multifunction display call-up button
- E109 - Multifunction display memory switch
- F1 - Oil pressure switch
- F22 - Oil pressure switch (0.3 bar)
- G - Fuel gauge sender
- G2 - Coolant temperature sender
- G22 - Speedometer sender
- G27 - Engine temperature sender
- T4c - 4-pin connector, behind steering column switch trim
- T24 - 24-pin connector, on engine
- 18 - Earth point, on engine block

- 196 - Earth connection 1, in rear wiring harness
- 201 - Earth connection 5, in engine wiring harness

* - is dropped March 1998

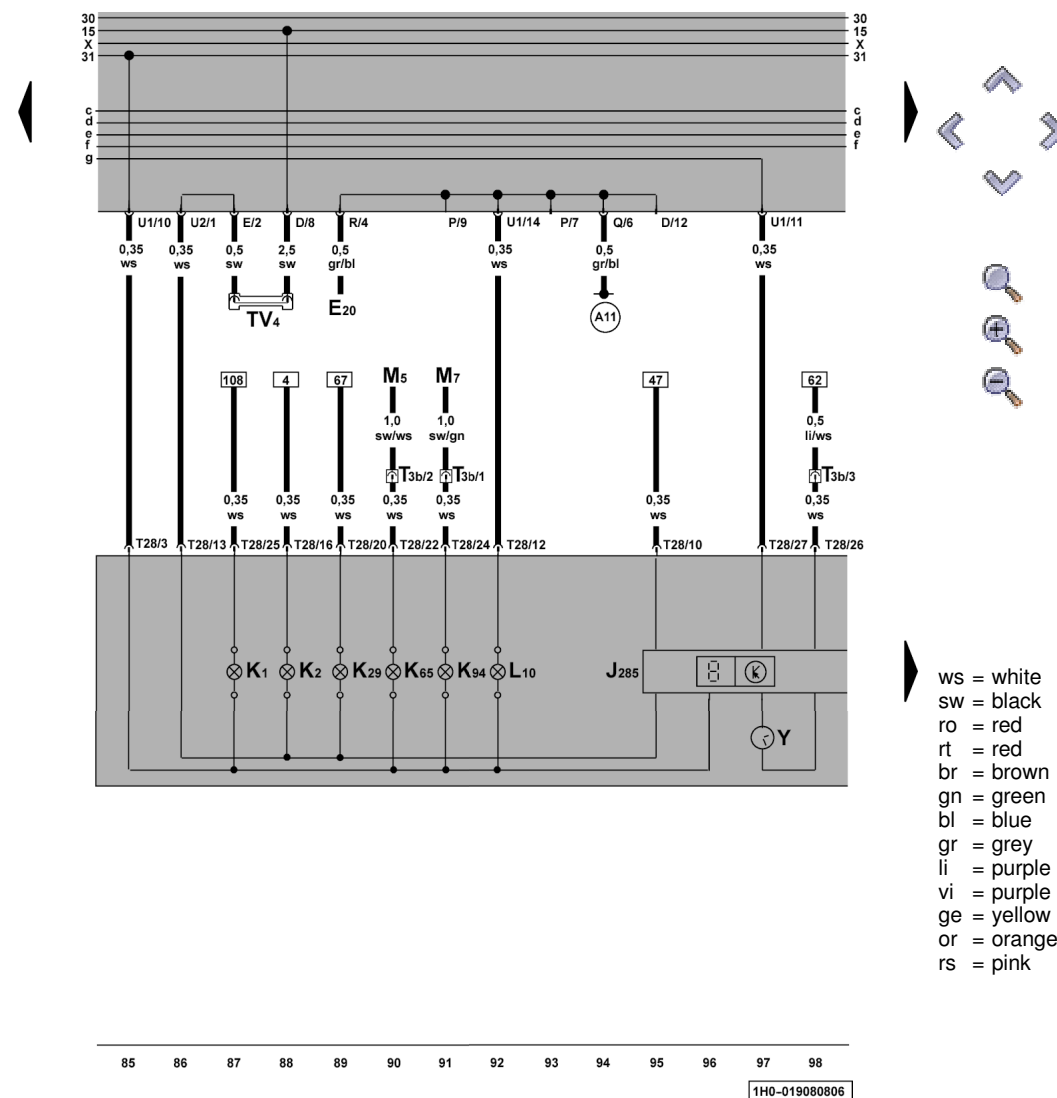
*** - from March 1998

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Golf/Vento

Current Flow Diagram

No. 19 / 8



Dash panel insert, warning lamps

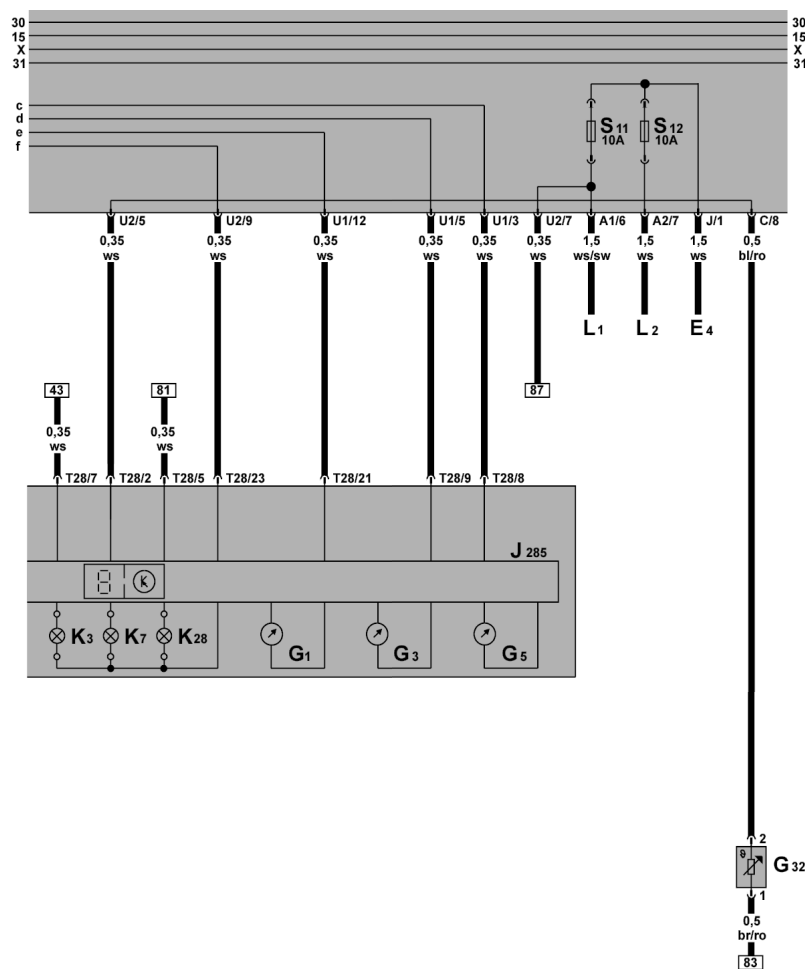
- E20 - Illumination regulators - switches and instruments
- J285 - Control unit with display in dash panel insert
- K1 - Main beam warning lamp
- K2 - Alternator warning lamp
- K29 - Glow period warning lamp
- K65 - Left turn signal warning lamp
- K94 - Right turn signal warning lamp
- L10 - Dash panel insert illumination bulb
- M5 - Front left turn signal bulb
- M7 - Front right turn signal bulb
- T3b - 3-pin connector, behind the relay plate
- T28 - 28-pin connector
- TV4 - Terminal 15 wiring junction
- Y - Analogue clock
- A11 - Positive connection (58b), in dash panel wiring harness

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Golf/Vento

Current Flow Diagram

No. 19 / 9



Dash panel insert, fuel gauge, coolant temperature gauge, rev. counter

- E4 - Headlight dipper/flasher switch
- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G32 - Coolant temperature display sender
- J285 - Control unit with display in dash panel insert
- K3 - Oil pressure warning lamp
- K7 - Dual circuit brake/handbrake warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- L1 - Left twin filament bulb
- L2 - Right twin filament bulb
- T28 - 28-pin connector, on dash panel insert