

Passat

Current Flow Diagram

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Edition 02.1998

1.9 ltr./66 kW turbo-diesel engine, engine codes AHU and AHH, with manual gearbox

From August 1997

1.9 ltr./81 kW turbo-diesel engine, engine codes AFN, with manual gearbox

From August 1997

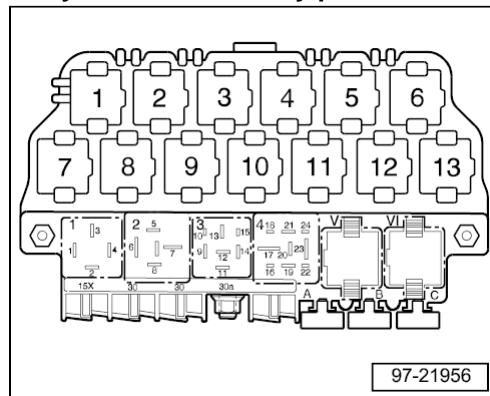
1.9 ltr./66 kW turbo-diesel engine, engine codes AHH, with manual gearbox, from August 1997

For alternatives to relay and fuse positions as well as multi-pin connector wiring - see "Fitting locations" section.

Relay locations on the 13 position additional relay carrier, above relay plate:

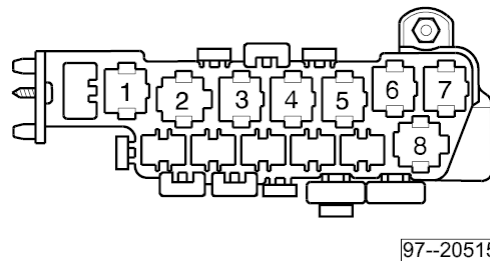
5 - Fuel pump relay (214), syncro only

Relay locations on relay plate:



4 - Glow plug relay (202)

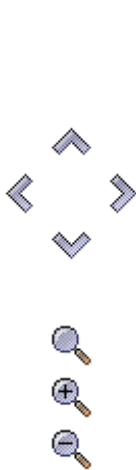
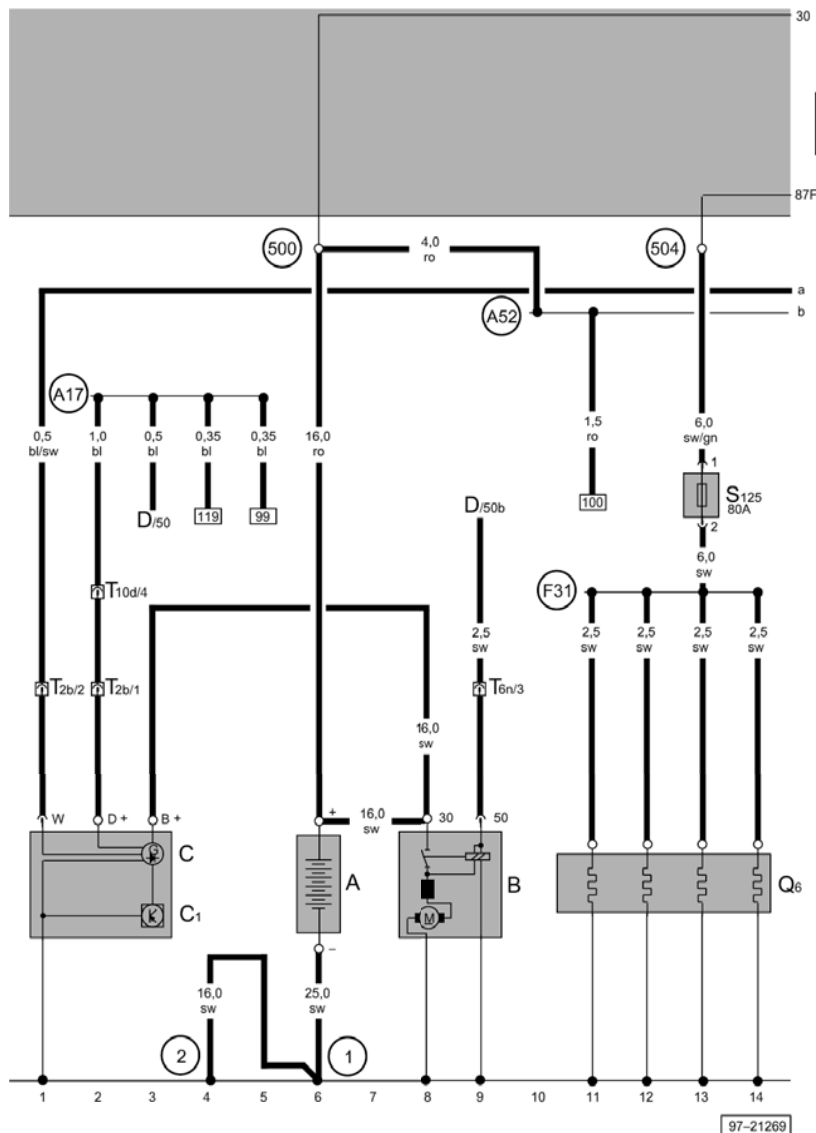
Relay locations on the 8 position additional relay carrier, behind relay plate:



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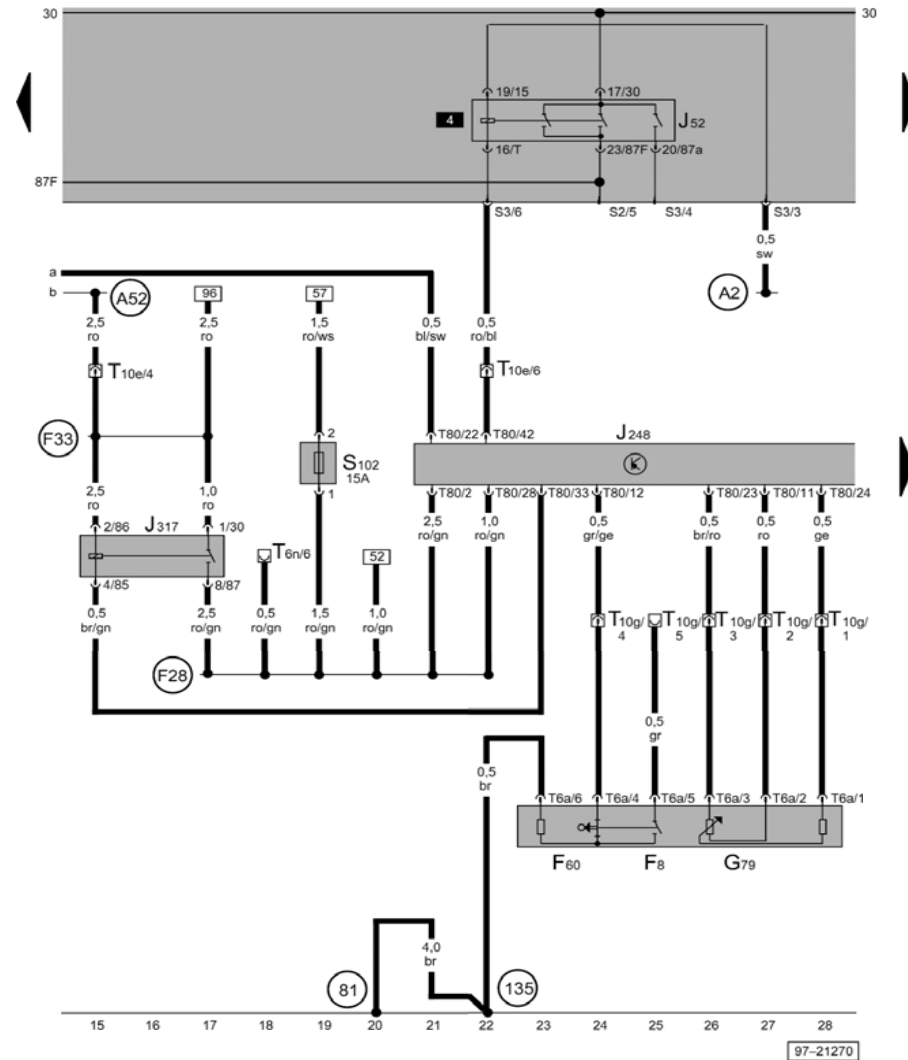
Battery, starter, alternator, glow plugs – engine

- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- Q6 - Glow plugs - engine
- S125 - Glow plugs fuse - engine, in control unit protective housing, in engine compartment, left
- T2b - 2-pin connector, blue, on engine block, right
- T6n - 6-pin connector, red, on control unit protective housing, in engine compartment, left
- T10d - 10-pin connector, brown, on control unit protective housing, in engine compartment, left
- 1 - Earth strap, battery - body
- 2 - Earth strap, gearbox - body
- 500 - Screw connection -1- (30), on relay plate
- 504 - Screw connection -1- (87F), on relay plate
- A17 - Connection (61), in dash panel wiring harness
- A52 - Positive (+) connection (30), in dash panel wiring harness
- F31 - Connection (glow plugs - engine) in diesel direct injection system wiring harness

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Current Flow Diagram

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

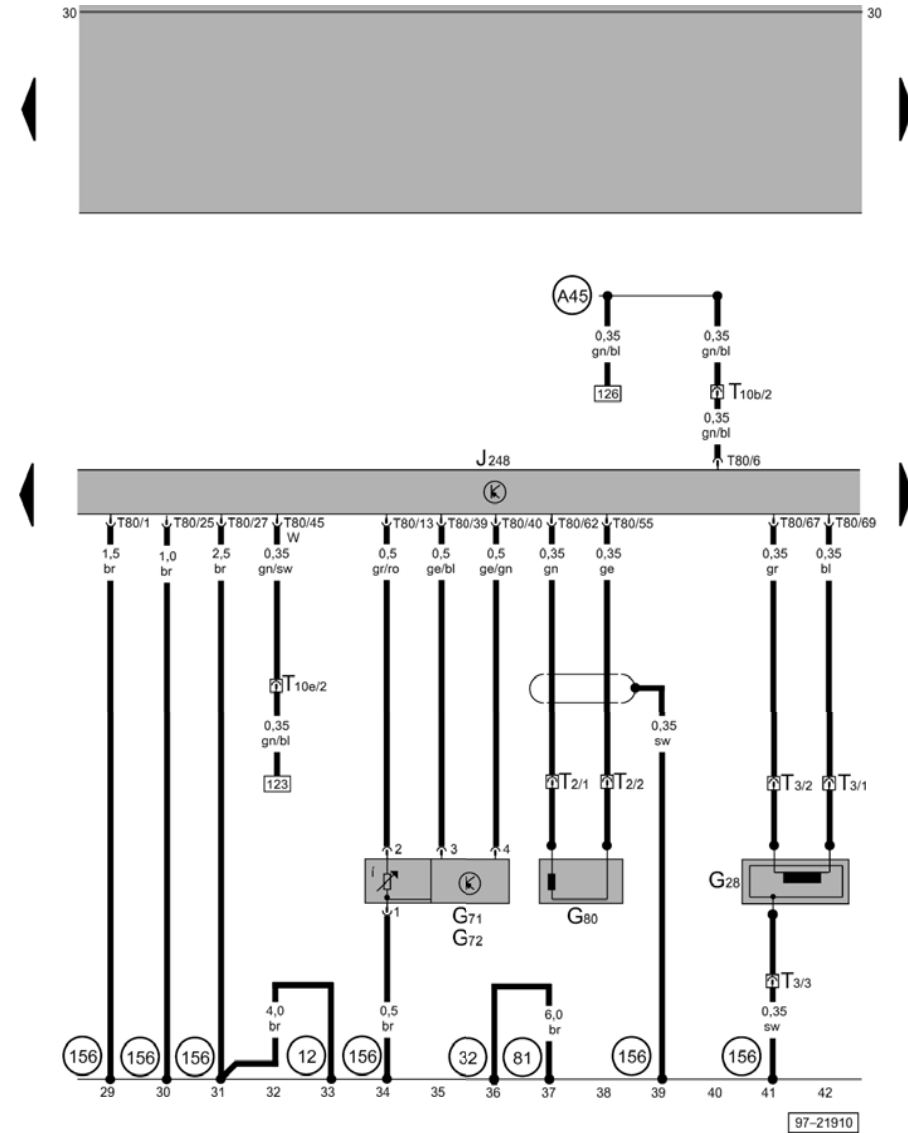
Diesel direct injection system control unit, kick-down switch, idling switch, accelerator pedal position sender

- F8 - Kick-down switch
- F60 - Idling switch
- G79 - Accelerator pedal position sender
- J52 - Glow plug relay
- J248 - Diesel direct injection system control unit, in control unit protective housing
- J317 - Terminal 30 voltage supply relay, in control unit protective housing
- S102 - Engine control unit fuse, in control unit protective housing
- T6a - 6-pin connector, on the injection pump
- T6n - 6-pin connector, red, on control unit protective housing, in engine compartment, left
- T10e - 10-pin connector, yellow, on control unit protective housing, in engine compartment, left
- T10g - 10-pin connector, white, on control unit protective housing, in engine compartment, left
- T80 - 80-pin connector, on diesel direct injection system control unit
- 81 - Earth connection -1-, in dash panel wiring harness
- 135 - Earth connection -2-, in dash panel wiring harness
- A2 - Positive (+) connection (15), in dash panel wiring harness
- A52 - Positive (+) connection (30), in dash panel wiring harness
- F28 - Connection -3-, in diesel direct injection system wiring harness
- F33 - Positive (+) connection (30), in diesel direct injection system wiring harness

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Diesel direct injection system control unit, engine speed sender, intake manifold pressure sender, needle lift sender, intake manifold temperature sender

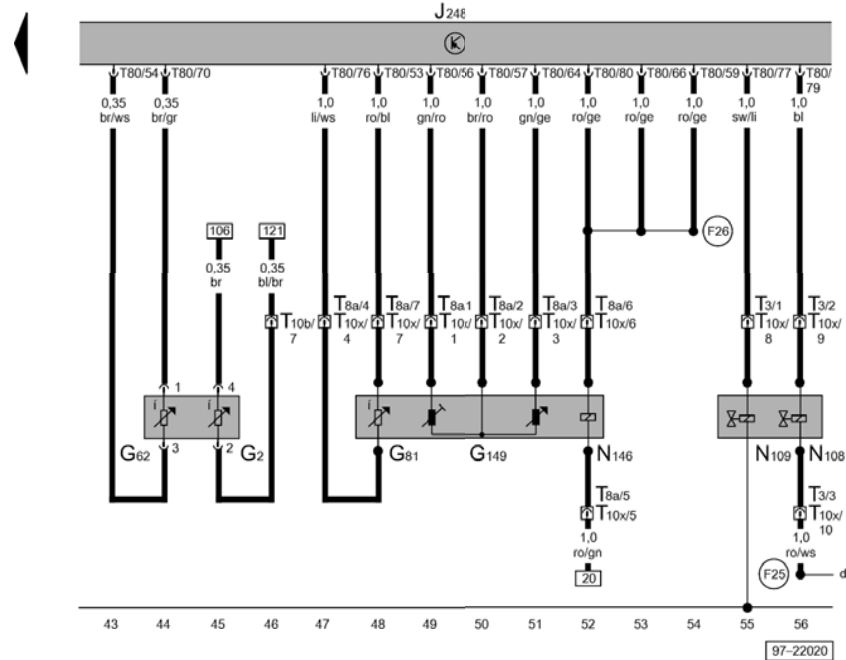
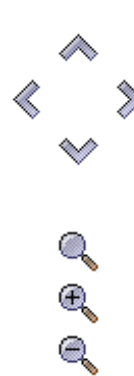
- G28 - Engine speed sender
- G71 - Intake manifold pressure sender
- G72 - Intake manifold temperature sender
- G80 - Needle lift sender
- J248 - Diesel direct injection system control unit, in control unit protective housing
- T2 - 2-pin connector, brown, near needle lift sender
- T3 - 3-pin connector, black, near engine speed sender
- T10b - 10-pin connector, black, on control unit protective housing, in engine compartment, left
- T10e - 10-pin connector, yellow, on control unit protective housing, in engine compartment, left (chamber 2 - self-diagnosis connection)
- T80 - 80-pin connector, on diesel direct injection system control unit
- 12 - Earth point, in engine compartment, left
- 32 - Earth point, behind dash panel, left
- 81 - Earth connection -1-, in dash panel wiring harness
- 156 - Earth connection, in diesel direct injection wiring harness
- A45 - Connection (engine speed signal), in dash panel wiring harness

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 rs = pink

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Diesel direct injection system control unit, coolant temperature sender, metering adjuster, modulating piston movement sender, fuel temperature sender, fuel shut-off valve, commencement of injection valve

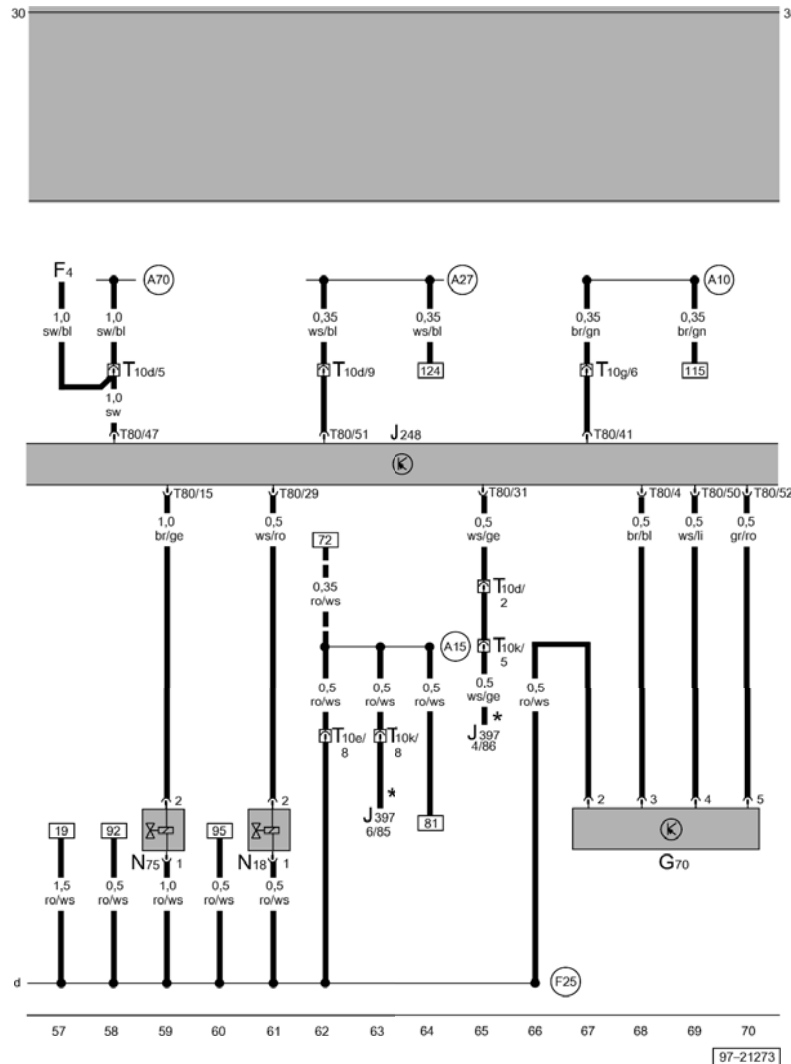
- G2 - Coolant temperature sender
- G62 - Coolant temperature sender
- G81 - Fuel temperature sender
- G149 - Modulating piston movement sender
- J248 - Diesel direct injection system control unit, in control unit protective housing
- N108 - Commencement of injection valve
- N109 - Fuel shut-off valve
- N146 - Metering adjuster
- T3 - 3-pin connector, near injection pump, only engine codes AHU and AFN
- T8a - 8-pin connector, near injection pump, only engine codes AHU and AFN
- T10b - 10-pin connector, black, on control unit protective housing, in engine compartment, left
- T10x - 10-pin connector, near injection pump, only engine codes AHH
- T80 - 80-pin connector, on diesel direct injection system control unit
- F25 - Connection -1-, in diesel direct injection system wiring harness
- F26 - Connection -2-, in diesel direct injection system wiring harness

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 ro = red
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 bl = blue
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 li = purple
 ge = yellow
 or = orange
 rs = pink

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Current Flow Diagram

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

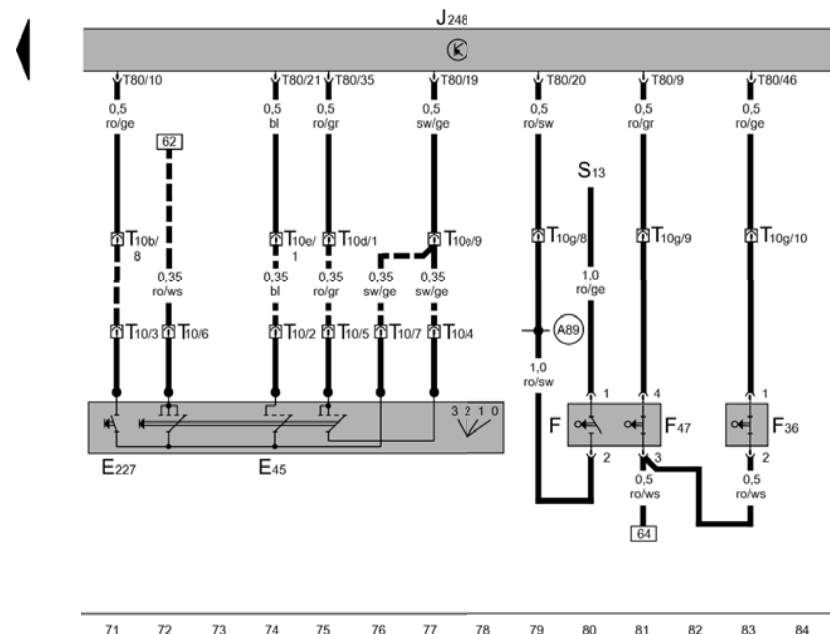
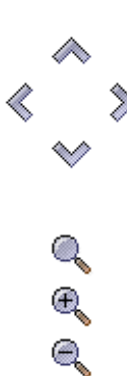
Diesel direct injection system control unit, air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve

- F4 - Reversing light switch
- G70 - Air mass meter
- J248 - Diesel direct injection system control unit, in control unit protective housing
- J397 - Radiator fan run-on relay
- N18 - Exhaust gas recirculation valve
- N75 - Charge pressure control solenoid valve
- T10d - 10-pin connector, brown, on control unit protective housing, in engine compartment, left
- T10e - 10-pin connector, yellow, on control unit protective housing, in engine compartment, left
- T10g - 10-pin connector, white, on control unit protective housing, in engine compartment, left
- T10k - 10-pin connector, grey, connector point left A-pillar
- T80 - 80-pin connector, on diesel direct injection system control unit
- A10 - Connection (glow plug control), in dash panel wiring harness
- A15 - Positive (+) connection (15), in instruments wiring harness
- A27 - Connection (speed signal), in dash panel wiring harness
- A70 - Connection (15a, fuse 231), in dash panel wiring harness
- F25 - Connection -1-, in diesel direct injection system wiring harness
- - Only models with cruise control system (CCS)
- * - Only engine codes AFN

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Current Flow Diagram

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

Diesel direct injection system control unit, cruise control system switch (CCS), brake light switch, clutch pedal switch

- E45 - Cruise control system switch Position 0 = OFF in detent Position 1 = OFF with button Position 2 = ON Position 3 = RES
- E227 - Cruise control system (CCS) button (Set)
- F - Brake light switch
- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch/diesel direct inj. system
- J248 - Diesel direct injection system control unit, in control unit protective housing
- S13 - Fuse in fuse box
- T10 - 10-pin connector, black, next to steering column
- T10b - 10-pin connector, black, on control unit protective housing, in engine compartment, left
- T10d - 10-pin connector, brown, on control unit protective housing, in engine compartment, left
- T10e - 10-pin connector, yellow, on control unit protective housing, in engine compartment, left
- T10g - 10-pin connector, white, on control unit protective housing, in engine compartment, left
- T80 - 80-pin connector, on diesel direct injection system control unit
- A89 - Connection (brake light switch), in dash panel wiring harness
-

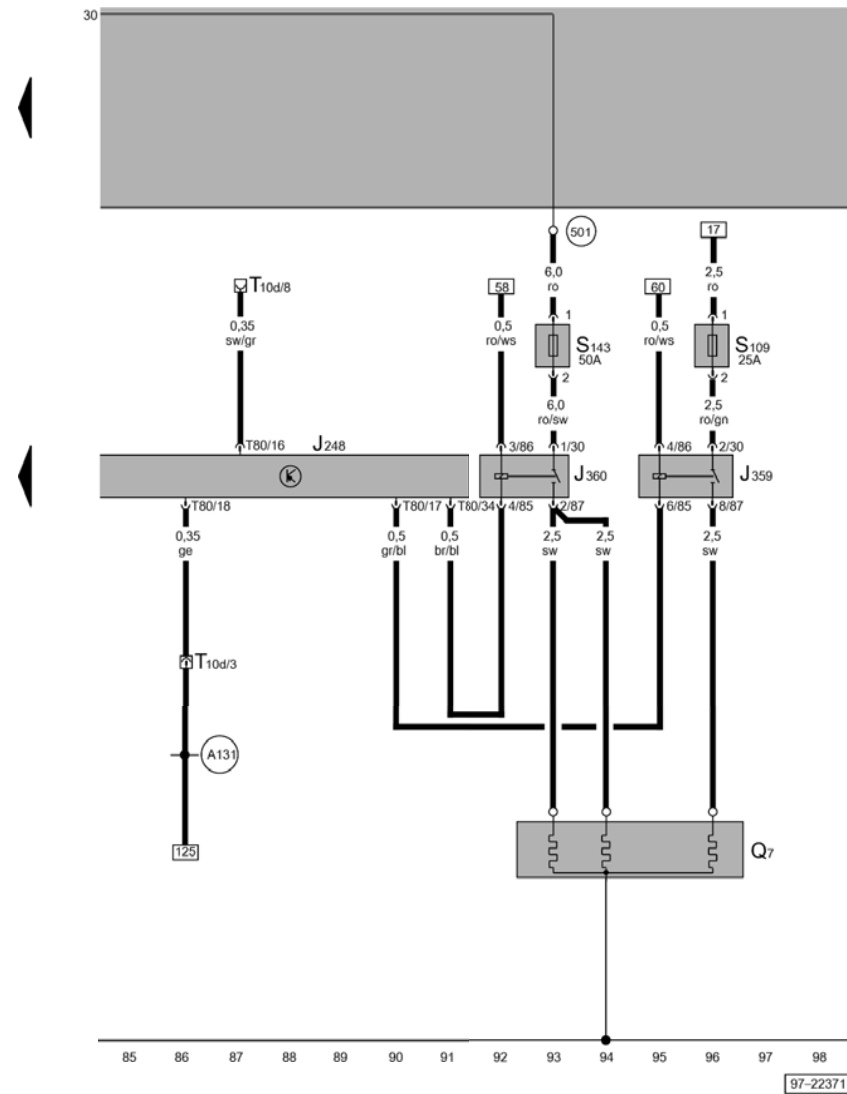
--- - Only models with cruise control system (CCS)

71 72 73 74 75 76 77 78 79 80 81 82 83 84

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Diesel direct injection system control unit, coolant heater element relay, coolant heating elements

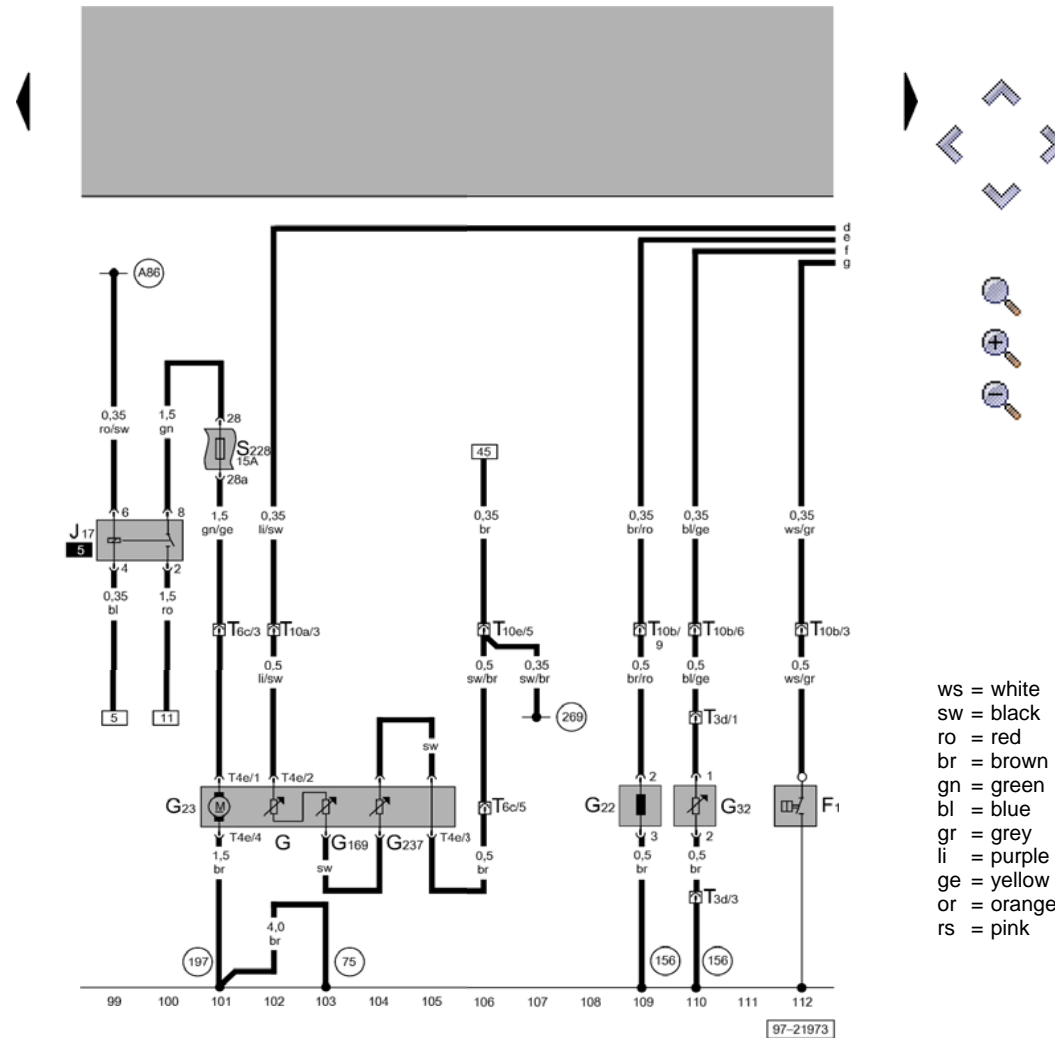
- J248 - Diesel direct injection system control unit, in control unit protective housing
- J359 - Low heat output relay, control number (373), in control unit protective housing
- J360 - High heat output relay, control number (370), in control unit protective housing
- Q7 - Coolant heating elements
- S109 - Coolant heater element fuse, in control unit protective housing
- S143 - Coolant heater element fuse 2, in control unit protective housing
- T10d - 10-pin connector, brown, on control unit protective housing, in engine compartment, left (chamber 8 -connection for air conditioner)
- 501 - Screw connection -2- (30), on relay plate
- A131 - Connection (fuel consumption signal), in dash panel wiring harness

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 bl = blue
 gr = grey
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Current Flow Diagram

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Oil pressure switch, fuel gauge sender, speedometer sender, coolant shortage indicator sender, fuel pump, fuel pump relay

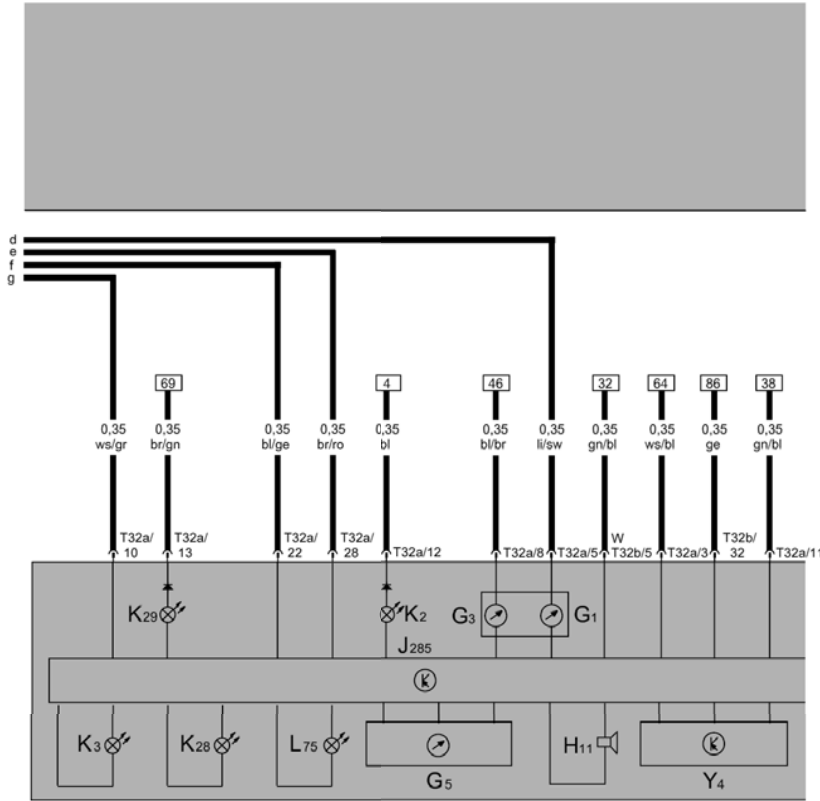
- F1 - Oil pressure switch
- G - Fuel gauge sender
- G22 - Speedometer sender, left in gearbox
- G23 - Fuel pump (syncro only)
- G32 - Coolant shortage indicator sender
- G169 - Fuel gauge sender -2- (syncro only)
- G237 - Fuel gauge sender -3- (syncro only)
- J17 - Fuel pump relay, on the 13 position additional relay carrier (syncro only) control number (214)
- S228 - Fuse in fuse box
- T3d - 3-pin connector, in engine compartment, front left
- T4e - 4-pin connector
- T6c - 6-pin connector, blue, connector point left A-pillar
- T10a - 10-pin connector, brown, connector point, left A pillar
- T10b - 10-pin connector, black, on control unit protective housing, in engine compartment, left
- T10e - 10-pin connector, yellow, on control unit protective housing, in engine compartment, left
- 75 - Earth point, rear pillar, right
- 156 - Earth connection, in diesel direct injection system wiring harness
- 197 - Earth connection -4-, in rear wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- A86 - Connection (50a), in dash panel wiring harness

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Current Flow Diagram

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Dash panel insert, optical and acoustical oil pressure warning, odometer display, coolant shortage and coolant temperature indicator, fuel gauge

- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- H11 - Oil pressure warning buzzer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K29 - Glow period warning lamp
- L75 - Digital display illumination
- T32a - 32-pin connector, blue, on dash panel insert
- T32b - 32-pin connector, green, on dash panel insert
- Y4 - Odometer display

- ws = white
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- rs = pink