

Sharan

Current Flow Diagram

No. 5 / 1

Edition 06.2001

1.9 ltr./66 kW Turbo diesel engine with unit injectors, engine codes AHU

From May 2000

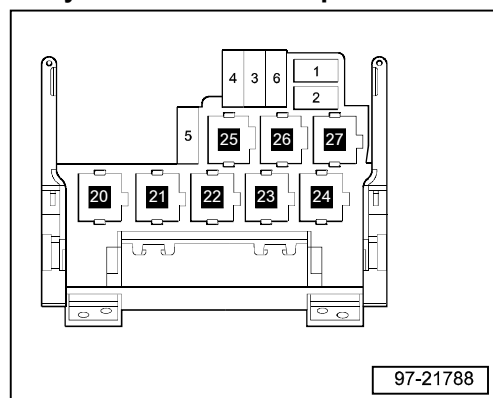
1.9 ltr./85 kW Turbo diesel engine with unit injectors, engine codes AUJ

From May 2000

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

Relay locations on the 19 position upper relay carrier behind the multi-function unit:

- 3 - Fuel pump relay (53)
- 5 - Radiator fan control unit (430)

Relay locations on the 8 position lower relay carrier behind the multi-function unit:

22 - Terminal 30 voltage supply relay (109)

24 - Glow plug relay (103)

**Note!***The number in brackets behind the part designation denotes the control number on the housing.*

Fuse colours

- 30 A - green
- 25 A - white
- 20 A - yellow
- 15 A - blue

10 A - red

7.5 A - brown

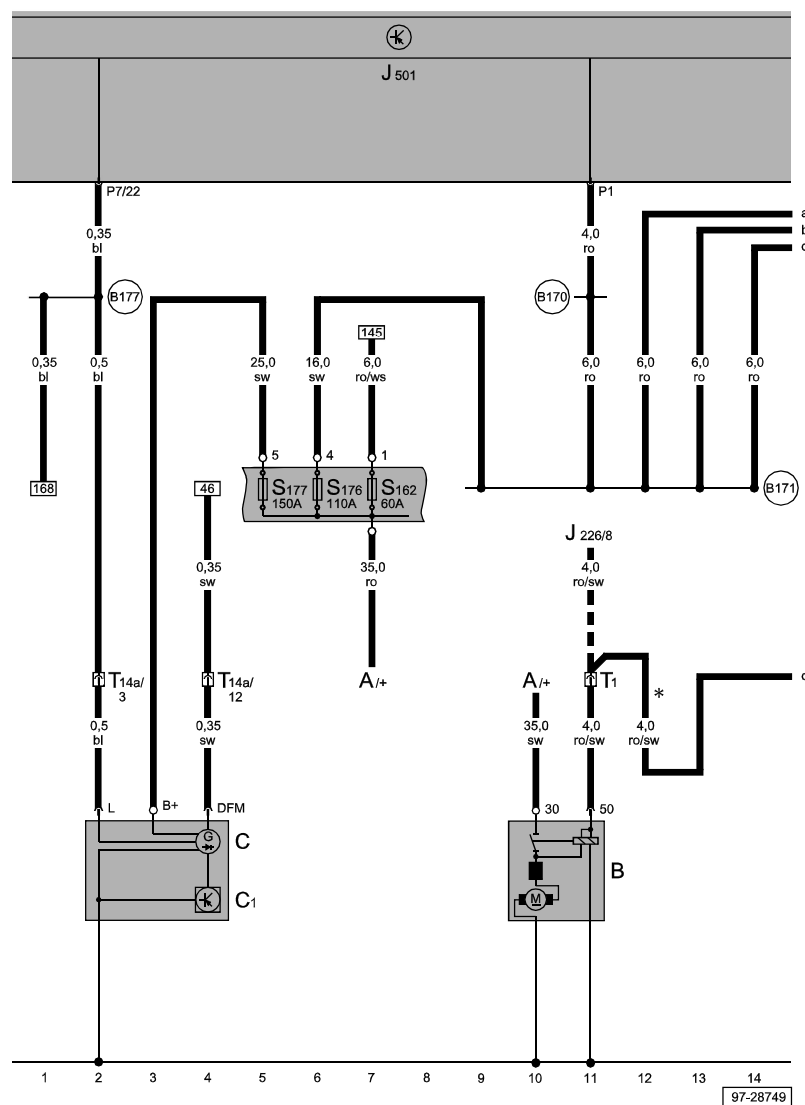
5 A - beige

3 A - lilac

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Current Flow Diagram

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**Starter, alternator**

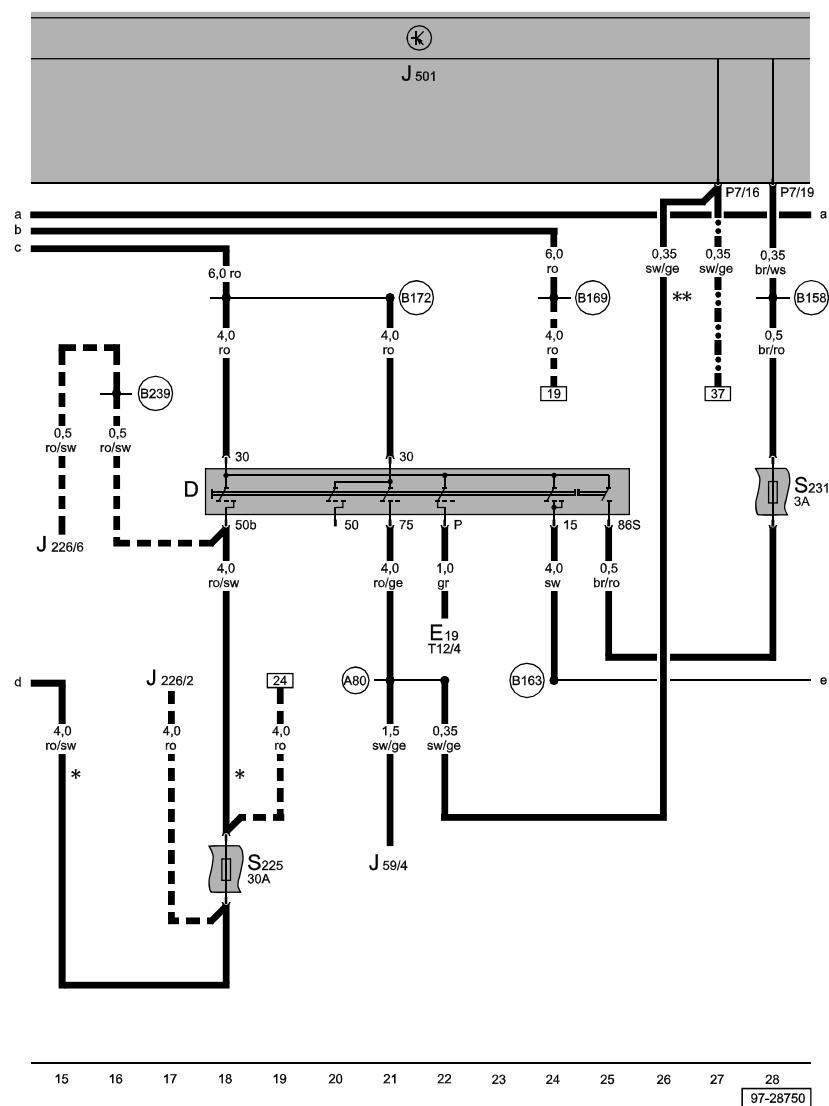
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- J226 - Starter inhibitor and reversing light relay
- J501 - Multi-function unit control unit
- S162 - Fuse -1- (30), in battery fuse box
- S176 - Fuse -4- (30), in battery fuse box
- S177 - Fuse -5- (30), in battery fuse box
- T1 - single connector, near battery
- T14a - 14-pin connector, in engine compartment, left
- B170 - Positive (+) connection -2- (30), in interior wiring harness
- B171 - Positive (+) connection -3- (30), in interior wiring harness
- B177 - Connection (61), in dash panel wiring harness
- * - Only models with manual gearbox
- - Only models with 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

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Current Flow Diagram

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**Ignition/starter switch**

- D - Ignition/starter switch
- E19 - Parking light switch
- J59 - X contact relief relay
- J226 - Starter inhibitor and reversing light relay
- J501 - Multi-function unit control unit
- S225 - Fuse in fuse box
- S231 - Fuse in fuse box
- T12 - 12-pin connector, on column switch trim
- A80 - Connection -1- (X), in dash panel wiring harness
- B158 - Connection (S), in air conditioner wiring harness
- B163 - Positive (+) connection -1- (15), in interior wiring harness
- B169 - Positive (+) connection -1- (30), in interior wiring harness
- B172 - Positive (+) connection -4- (30), in interior wiring harness
- B239 - Connection -1- (50), in interior wiring harness (up to August 2000)
- * - Only models with manual gearbox
- - Only models with automatic gearbox
- ** - From September 2000
- ...- - Up to August 2000

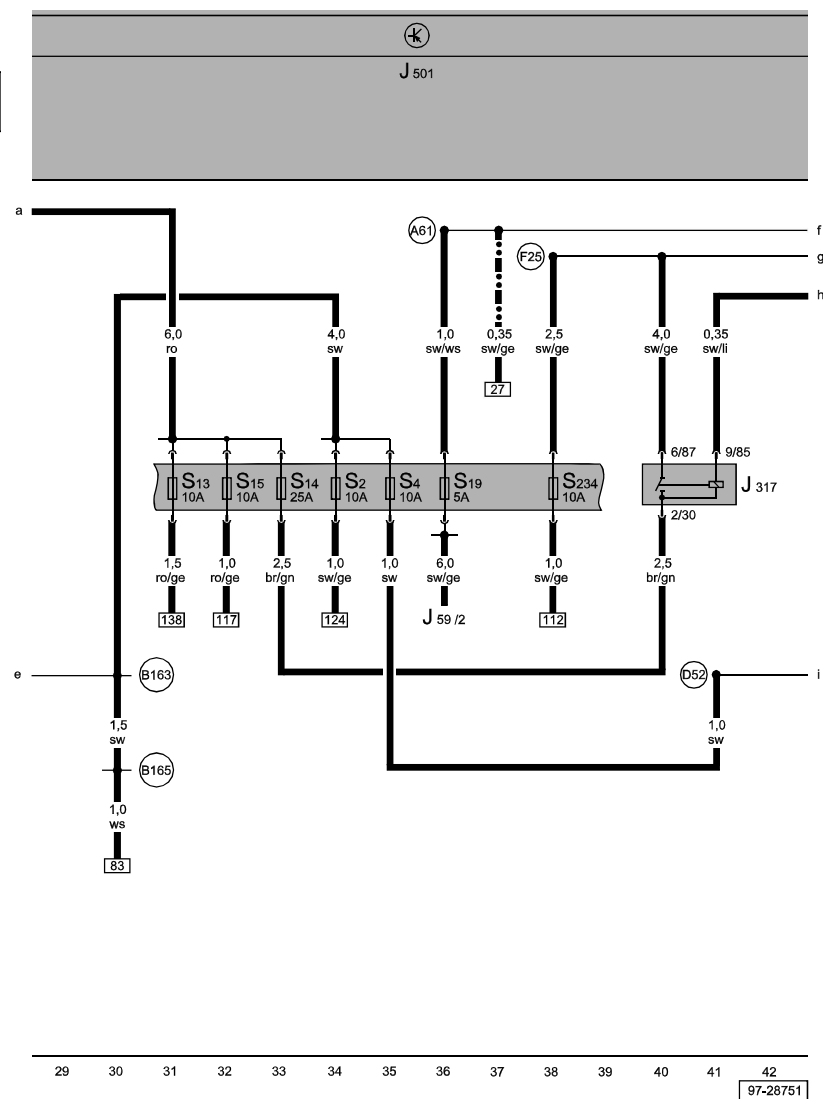
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 li = purple
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 ge = yellow
 or = orange
 rs = pink

15 16 17 18 19 20 21 22 23 24 25 26 27 28
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Current Flow Diagram

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**Terminal 30 voltage supply relay**

- J59 - X contact relief relay
- J317 - Terminal 30 voltage supply relay
- J501 - Multi-function unit control unit
- S2 - Fuse in fuse box
- S4 - Fuse in fuse box
- S13 - Fuse in fuse box
- S14 - Fuse in fuse box
- S15 - Fuse in fuse box
- S19 - Fuse in fuse box
- S234 - Fuse in fuse box
- A61 - Positive connection (X), in instrument panel wiring harness
- B163 - Positive (+) connection -1- (15), in interior wiring harness
- B165 - Positive (+) connection -2- (15), in interior wiring harness
- D52 - Positive (+) connection (15a), in engine compartment wiring harness
- F25 - Connection -1-, in diesel direct injection system wiring harness
- - Up to August 2000

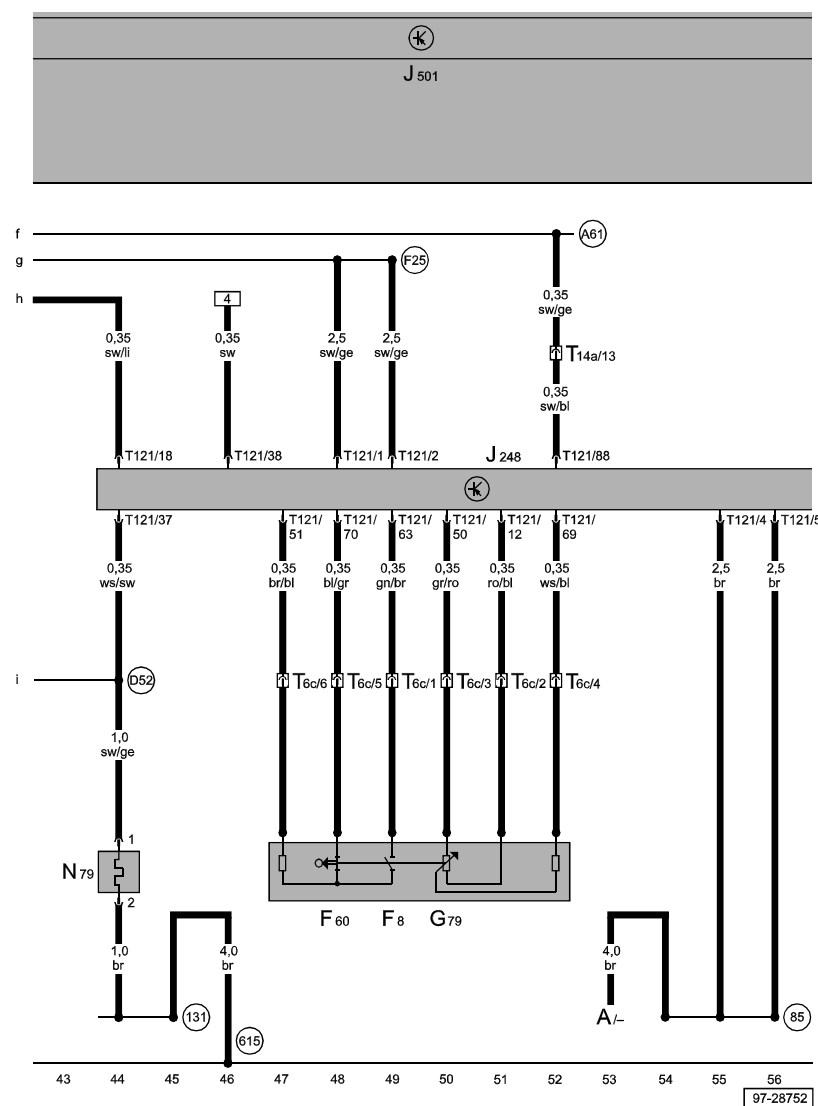
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 ge = yellow
 or = orange
 rs = pink

29 30 31 32 33 34 35 36 37 38 39 40 41 42
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Current Flow Diagram

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Diesel direct injection system control unit, accelerator pedal position sender, kick-down switch, idling switch, heater element (crankcase breather)

- A - Battery
- F8 - Kick-down switch
- F60 - Idling switch
- G79 - Accelerator pedal position sender
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J501 - Multi-function unit control unit
- N79 - Heater element (crankcase breather)
- T6c - 6-pin connector, behind airbag unit
- T14a - 14-pin connector, in engine compartment, left
- T121 - 121-pin connector
- 85 - Earth connection -1-, in engine compartment wiring harness
- 131 - Earth connection -2-, in engine compartment wiring harness
- 615 - Earth point, on left suspension strut
- A61 - Positive connection (X), in instrument panel wiring harness
- D52 - Positive (+) connection (15a), in engine compartment wiring harness
- F25 - Connection -1-, in diesel direct injection system wiring harness

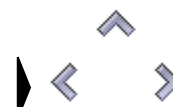
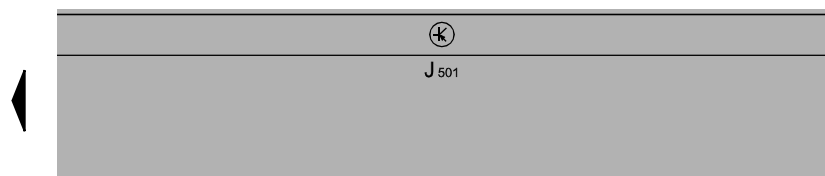
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 rs = pink

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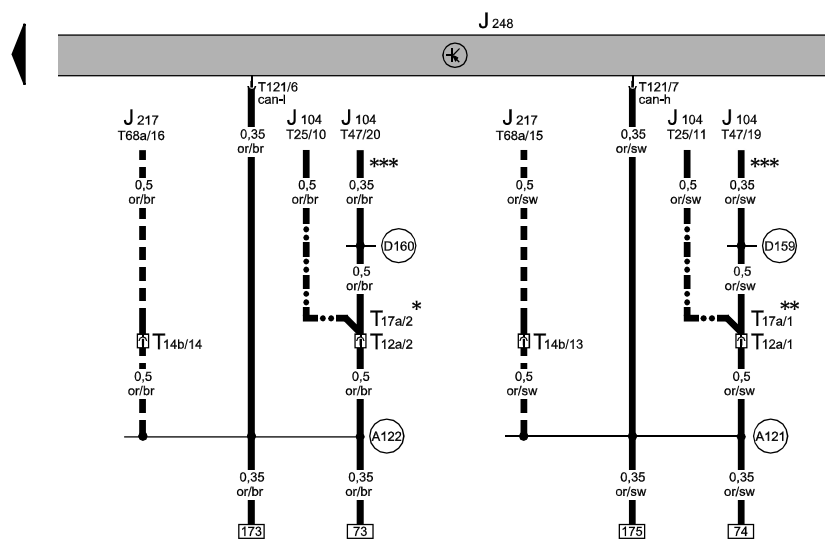
Current Flow Diagram

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**Diesel direct injection system control unit**

- J104 - ABS/ABS with ESP control unit
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J501 - Multi-function unit control unit
- T12a - 12-pin connector, behind dash panel, left (up to August 2000)
- T14b - 14-pin connector, in engine compartment, left
- T17a - 17-pin connector, behind dash panel, left (from September 2000)
- T25 - 25-pin connector, on ABS control unit
- T47 - 47-pin connector, on ABS with EDL/TCS/ESP control unit
- T68a - 68-pin connector, at models with automatic 5-speed-gearbox (AG5)
- T121 - 121-pin connector
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- D159 - Connection (high bus), in engine compartment wiring harness
- D160 - Connection (low bus), in engine compartment wiring harness

ws = white
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 ge = yellow
 or = orange
 rs = pink

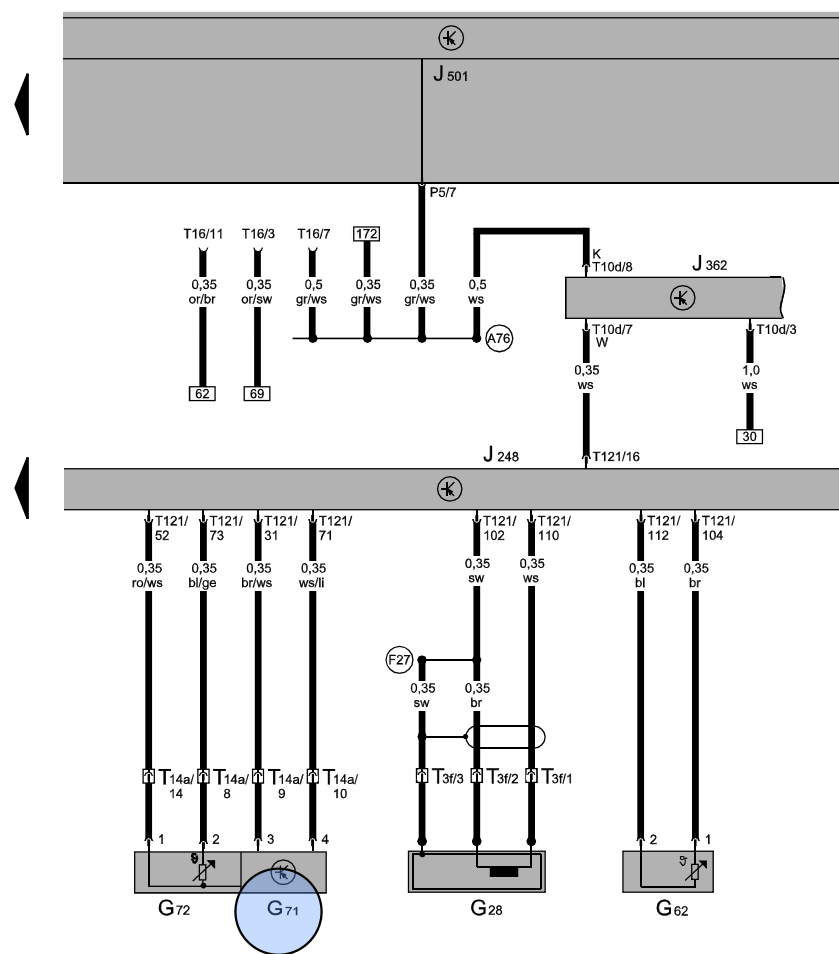


57 58 59 60 61 62 63 64 65 66 67 68 69 70
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Current Flow Diagram

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Diesel direct injection system control unit, engine speed sender, coolant temperature sender, intake manifold pressure sender, intake manifold temperature sender, immobilizer, self-diagnosis connection

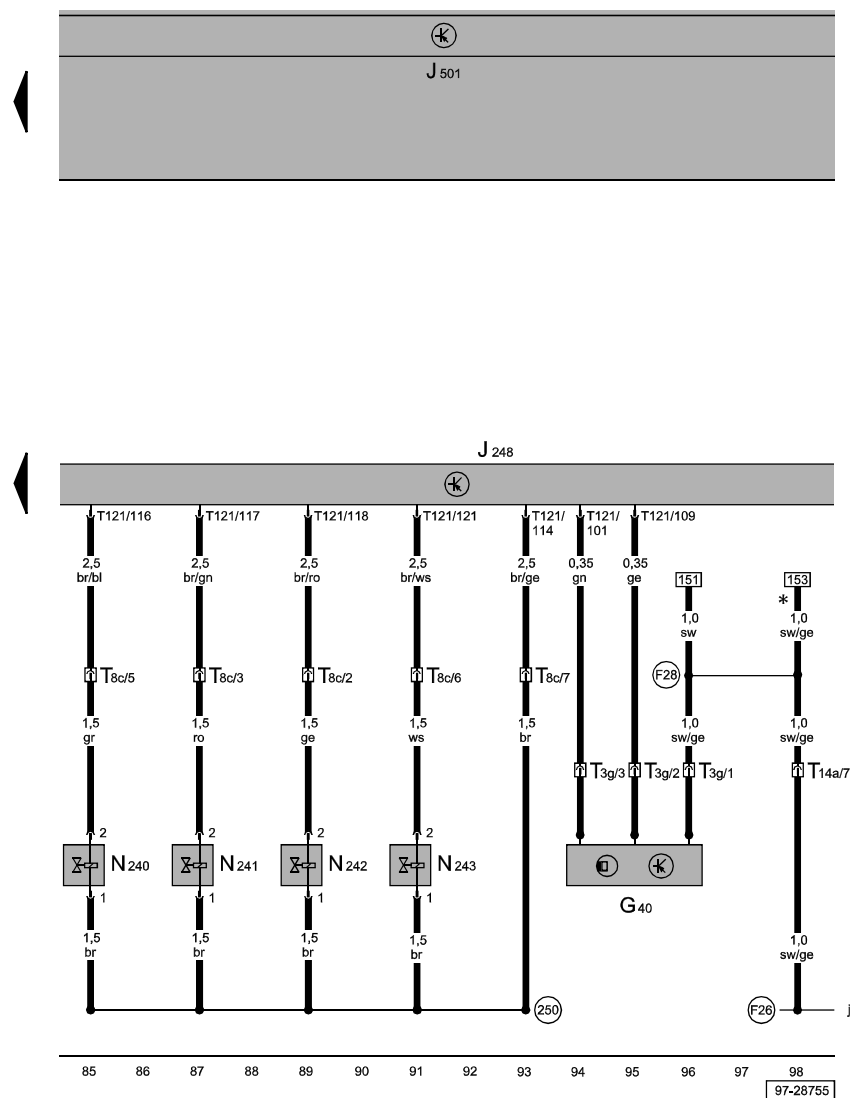
- G28 - Engine speed sender
- G62 - Coolant temperature sender
- G71** - Intake manifold pressure sender
- G72 - Intake manifold temperature sender
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J362 - Immobilizer control unit
- J501 - Multi-function unit control unit
- T3f - 3-pin connector, on engine front
- T10d - 10-pin connector
- T14a - 14-pin connector, in engine compartment, left
- T16 - 12-pin connector, under dash panel, self-diagnosis connection
- T121 - 121-pin connector
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- F27 - Connection (screening), in diesel direct injection 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
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Current Flow Diagram

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**Diesel direct injection system control unit, unit injector solenoid valve, hall sender (for camshaft position)**

- G40 - Hall sender (for camshaft position)
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J501 - Multi-function unit control unit
- N240 - Unit injector solenoid valve, No. 1 cyl.
- N241 - Unit injector solenoid valve, No. 2 cyl.
- N242 - Unit injector solenoid valve, No. 3 cyl.
- N243 - Unit injector solenoid valve, No. 4 cyl.
- T3g - 3-pin connector, on engine front
- T8c - 8-pin connector, in engine compartment, left
- T14a - 14-pin connector, in engine compartment, left
- T121 - 121-pin connector
- 250 - Earth connection, in engine wiring pre-wiring harness - Diesel
- F26 - Connection -2-, in diesel direct injection system wiring harness
- F28 - Connection -3-, in diesel direct injection system wiring harness
- * - Only models with manual gearbox

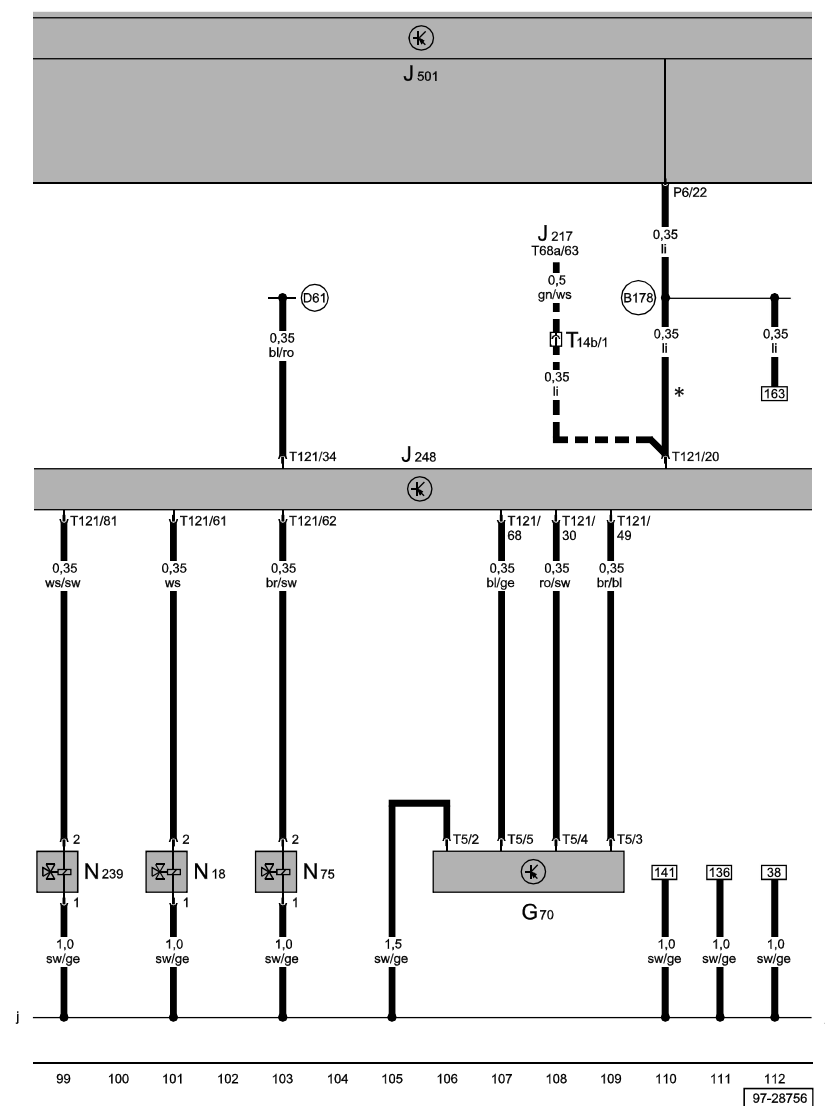
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 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

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Current Flow Diagram

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Diesel direct injection system control unit, air mass meter, exhaust gas recirculation valve, charge pressure control solenoid valve, intake manifold flap change-over valve

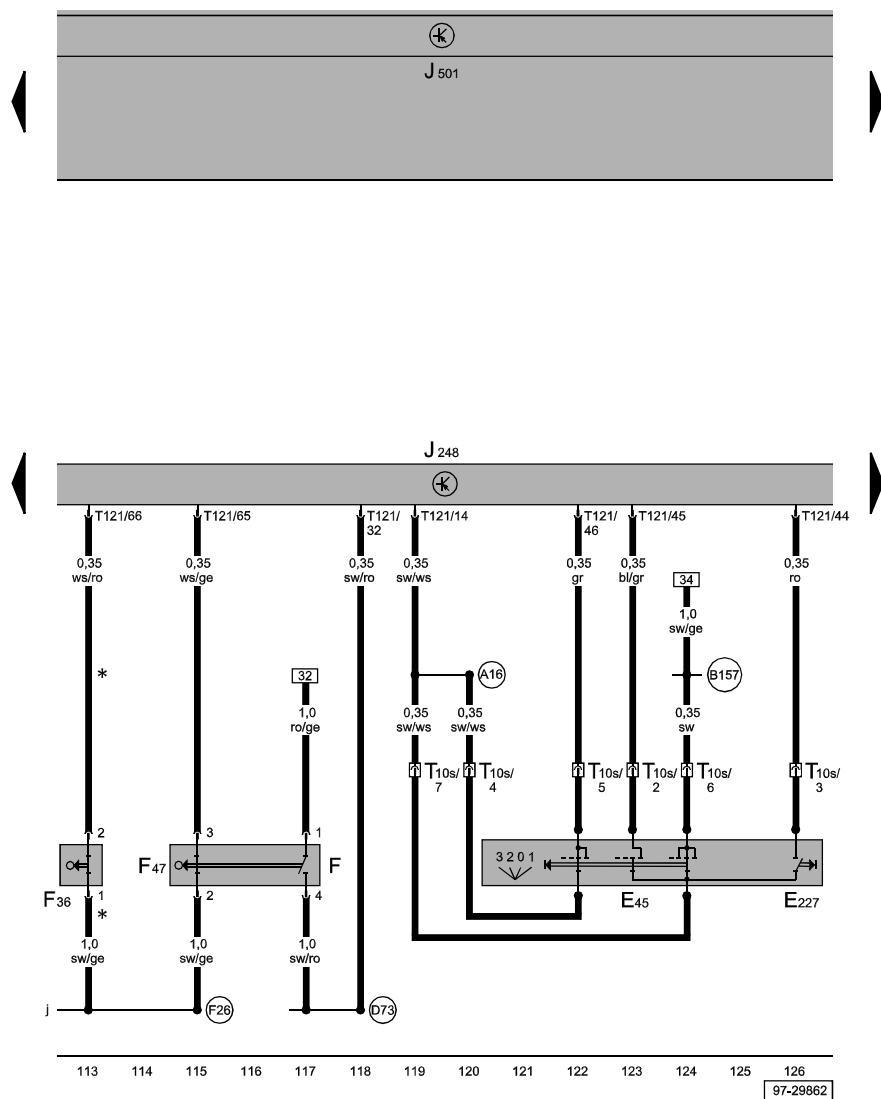
- G70 - Air mass meter
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J501 - Multi-function unit control unit
- N18 - Exhaust gas recirculation valve
- N75 - Charge pressure control solenoid valve
- N239 - Intake manifold flap change-over valve
- T5 - 5-pin connector
- T14b - 14-pin connector, in engine compartment, left
- T68a - 68-pin connector, at models with automatic 5-speed-gearbox (AG5)
- T121 - 121-pin connector
- B178 - Connection (speed signal), in interior wiring harness
- D61 - Connection (air conditioner), in engine compartment wiring harness**
- * - Only models with manual gearbox
- - Only models with automatic gearbox
- ** - ⇒ Current flow diagram air conditioner/Climatronic

ws = white
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Current Flow Diagram

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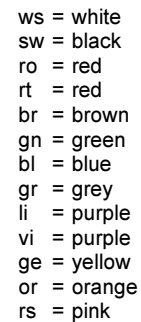
Diesel direct injection system control unit, cruise control system brake pedal switch/diesel direct injection system, clutch pedal switch, brake light switch, switch for CCS




- E45 - Switch for CCS**
- E227 - Button for cruise control system (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 engine compartment, left
- J501 - Multi-function unit control unit
- T10s - 10-pin connector, next to steering column
- T121 - 121-pin connector
- A16 - Connection (cruise control system), in dash panel wiring harness
- B157 - Positive (+) connection -3- (15a), in interior wiring harness
- D73 - Positive (+) connection (54), in engine compartment wiring harness
- F26 - Connection -2-, in diesel direct injection system wiring harness
- * - Only models with manual gearbox
- ** - Only models with CCS

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sw = black
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vi = purple
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or = orange
rs = pink

97-29862

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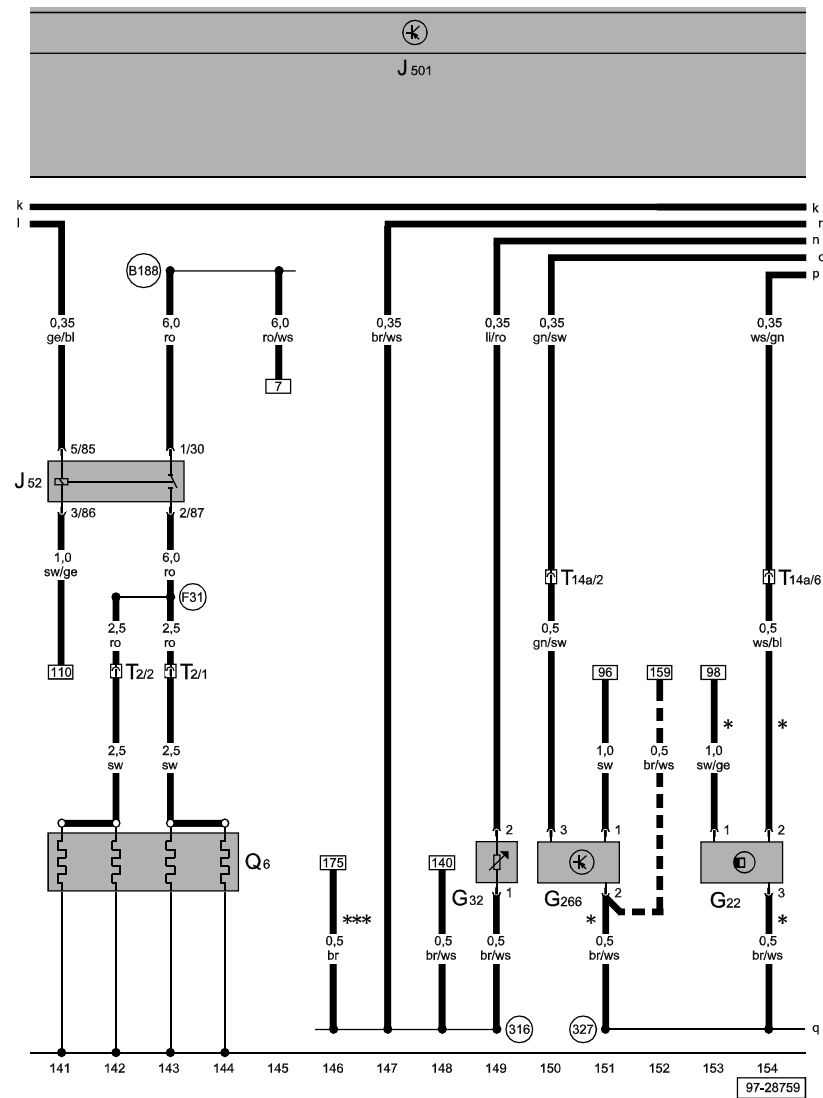


- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- G81 - Fuel temperature sender
- J17 - Fuel pump relay
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J293 - Radiator fan control unit 
- J501 - Multi-function unit control unit
- T10c - 10-pin connector
- T121 - 121-pin connector
- V51 - Continued circulation of coolant pump
- 12 - Earth point, in engine compartment, left, below the battery 
- 35 - Earth point, under front passenger's seat 
- 193 - Earth connection -1-, in coolant fan wiring harness
- B104 - Earth connection (rear right), in interior wiring harness

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Current Flow Diagram

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Glow plug relay, glow plugs - engine, speedometer sender, coolant shortage indicator sender, oil level/oil temperature sender

- G22 - Speedometer sender (Hall sender on gearbox)
- G32 - Coolant shortage indicator sender
- G266 - Oil level/oil temperature sender
- J52 - Glow plug relay
- J501 - Multi-function unit control unit
- Q6 - Glow plugs - engine
- T2 - 2-pin connector, in engine compartment, left
- T14a - 14-pin connector, in engine compartment, left
- 316 - Earth connection (sender earth -2-) in engine wiring harness
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- B188 - Positive (+) connection -5- (30), in interior wiring harness
- F31 - Connection (glow plugs - engine) in diesel direct injection system wiring harness
- * - Only models with manual gearbox
- - Only models with automatic gearbox
- *** - Only models without Climatronic

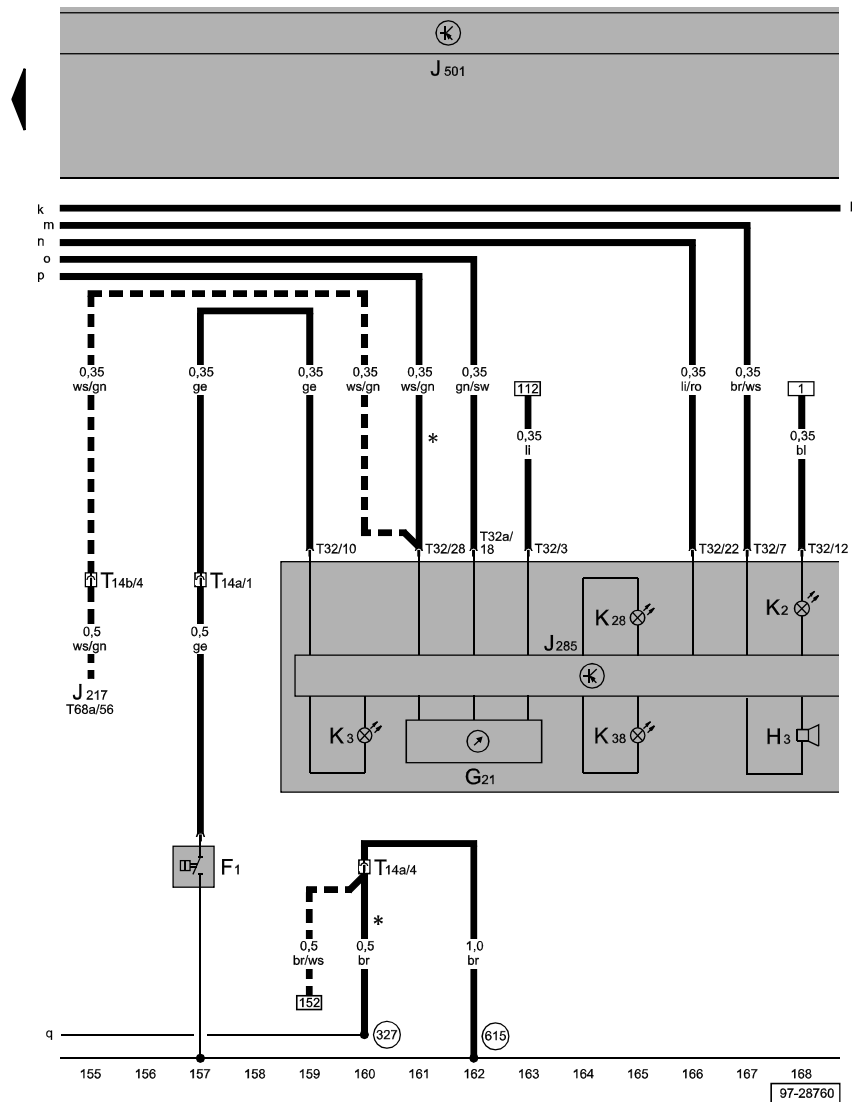
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 vi = purple
 ge = yellow
 or = orange
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Current Flow Diagram

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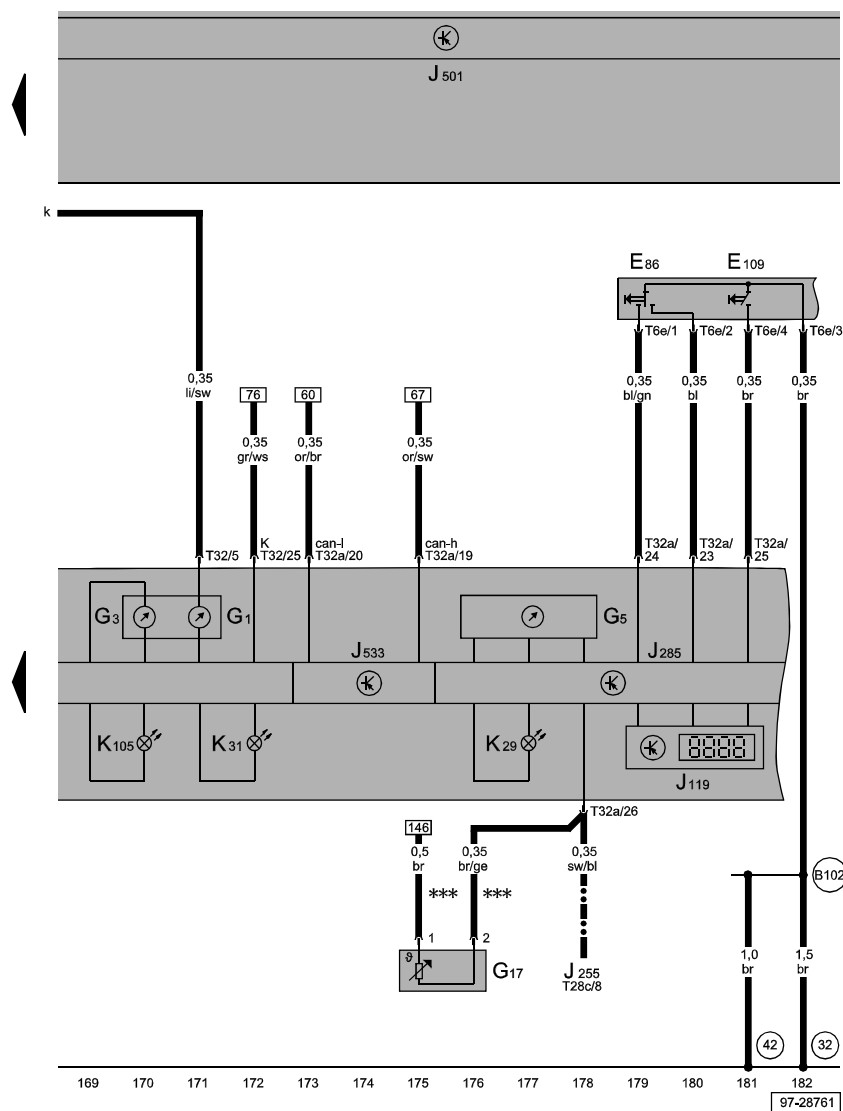
Dash panel insert, coolant temperature/coolant shortage, speedometer, alternator warning lamp, oil pressure switch, oil pressure warning

- F1 - Oil pressure switch
- G21 - Speedometer
- H3 - Warning buzzer
- J217 - Automatic gearbox control unit
- J285 - Control unit with display in dash panel insert
- J501 - Multi-function unit control unit
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K38 - Oil level warning lamp
- T14a - 14-pin connector, in engine compartment, left
- T14b - 14-pin connector, in engine compartment, left
- T32 - 32-pin connector, blue
- T32 - 32-pin connector, green
- T68a - 68-pin connector, at models with automatic 5-speed-gearbox (AG5)
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- 615 - Earth point, on suspension strut, left
- * - Only models with manual gearbox
- - Only models with automatic gearbox

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Current Flow Diagram

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Dash panel insert, cruise control system warning lamp, multi-function display, coolant temperature gauge, ambient temperature indicator, fuel gauge, rev. counter, glow period warning lamp

- E86 - Multi-function display call-up button
- E109 - Multi-function display, memory switch
- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G17 - Ambient temperature sensor, see also Current Flow Diagram Climatronic
- J119 - Multi-function display
- J255 - Climatronic control unit
- J285 - Control unit with display in dash panel insert
- J501 - Multi-function unit control unit
- J533 - Data bus diagnostic interface, in dash panel insert
- K29 - Glow period warning lamp
- K31 - Cruise control system warning lamp
- K105 - Reserve fuel warning lamp
- T6e - 6-pin connector
- T28c - 28-pin connector
- T32 - 32-pin connector, blue
- T32 - 32-pin connector, green
- 32 - Earth point, behind dash panel, left
- 42 - Earth point, on steering column
- B102 - Earth connection, in interior wiring harness, front left
- *** - Only models without Climatronic
- - Only models with Climatronic