

Passat

Current Flow Diagram

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Edition 06.2001

2.0 litre/85 kW Simos, engine codes AZM

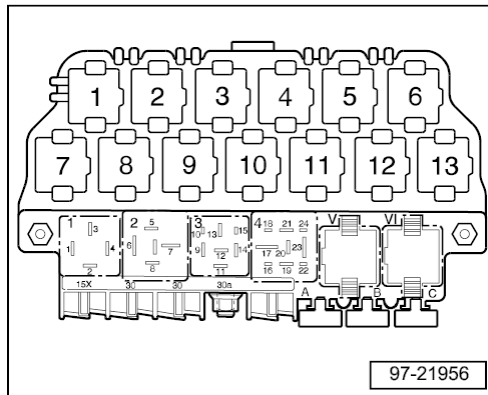
From October 2000

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 the relay plate:

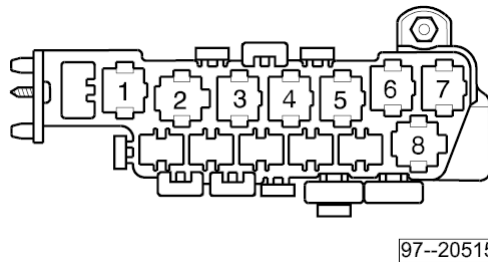
10 - Vacuum pump relay BKV (373)

Relay locations on relay plate:



4 - Fuel pump relay (409)

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



Note!

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

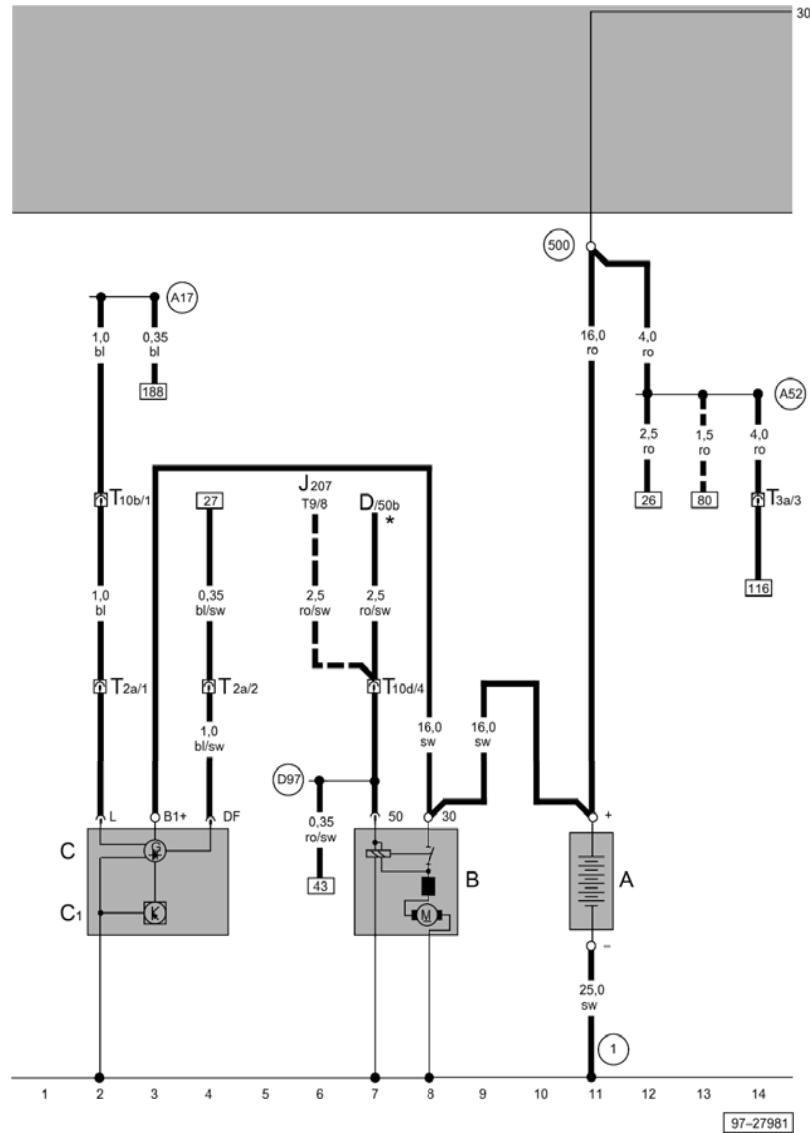
Fuse colours

30 A green

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Current Flow Diagram

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Battery, starter, alternator, voltage regulator

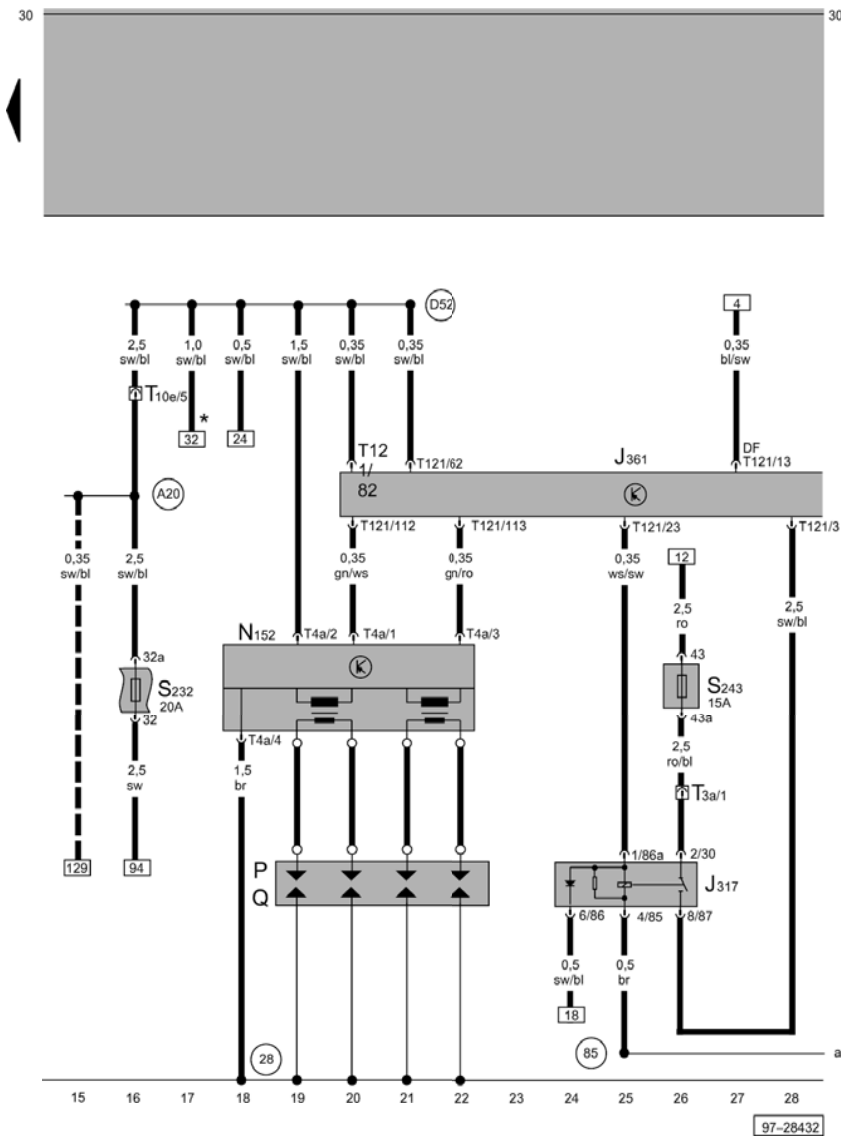
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J207 - Starter inhibitor relay
- T2a - 2-pin connector, black
- T3a - 3-pin connector, white, on protective housing for control units, on left in engine compartment
- T9 - 9-pin connector, black
- T10b - 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
- 1 - Earth strap, battery - body
- 500 - Screw connection -1- (30), on relay plate
- A17 - Connection (61), in dash panel wiring harness
- A52 - Positive (+) connection -2- (30), in dash panel wiring harness
- D97 - Connection (50), in engine compartment wiring harness, right
- * - Only models with manual gearbox
- - Only models with automatic gearbox

ws = white
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Current Flow Diagram

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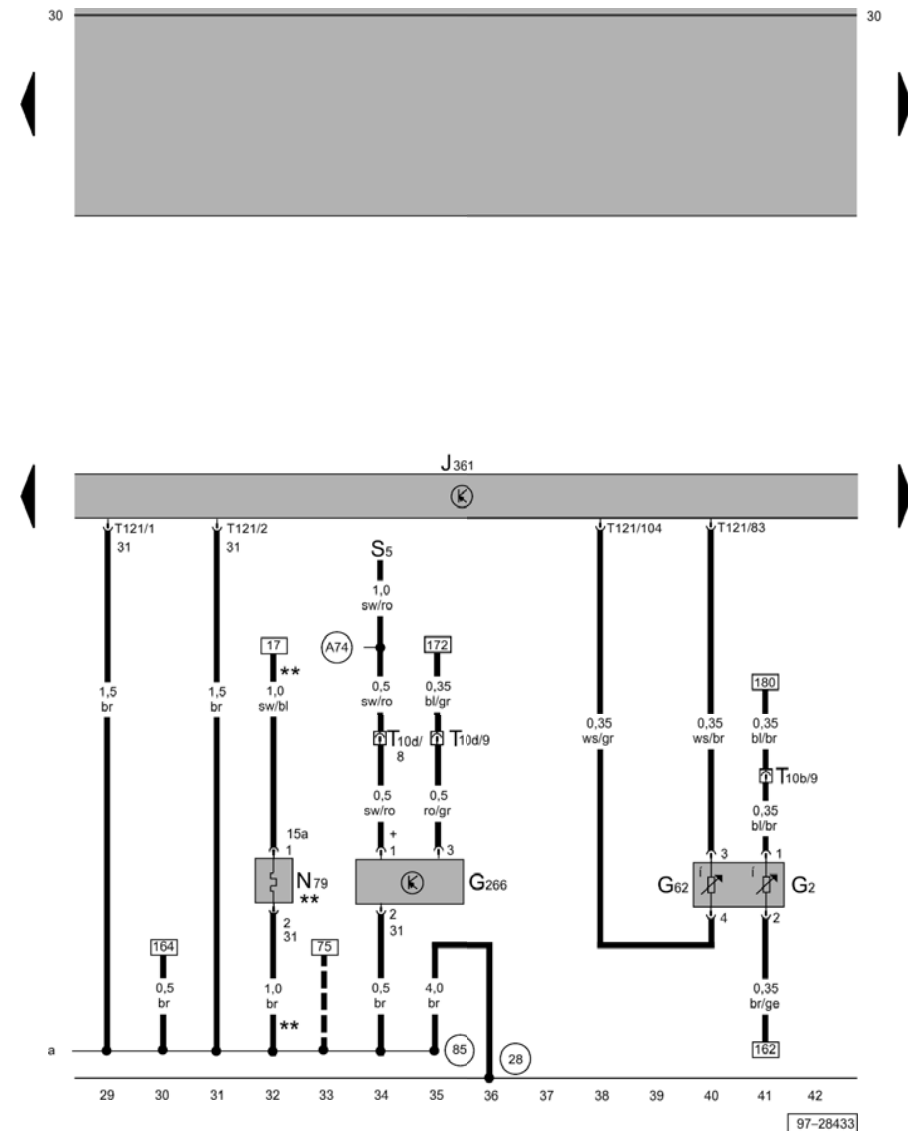
- Simos control unit, ignition system, engine speed sender**
- J317 - Terminal 30 voltage supply relay, control number, in protective housing for control units
 - J361 - Simos control unit, in protective housing, on left in engine compartment
 - N152 - Ignition transformer
 - P - Spark plug connector
 - Q - Spark plugs
 - S232 - Fuse in fuse box
 - S243 - Fuse in fuse box
 - T3a - 3-pin connector, white, on protective housing for control units, on left in engine compartment
 - T4a - 4-pin connector, black, on ignition coils for output stages
 - T10e - 10-pin connector, orange, on protective housing for control units, on left in engine compartment
 - T121 - 121-pin connector, on Simos control unit
 - 28 - Earth point, on bulkhead, left
 - 85 - Earth connection -1-, in engine compartment wiring harness
 - A20 - Connection (15a), in dash panel wiring harness
 - D52 - Positive (+) connection (15a), in engine compartment wiring harness
 - - Only models with cruise control system (CCS)
 - * - Does not apply all equipment

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Current Flow Diagram

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Simos control unit, coolant temperature sender, oil level/oil temperature sender

- G2 - Coolant temperature sender
- G62 - Coolant temperature sender
- G266 - Oil level/oil temperature sender
- J361 - Simos control unit, in protective housing, on left in engine compartment
- N79 - Heater element (crankcase breather), does not apply all equipment
- S5 - Fuse in relay plate fuse box
- 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
- T121 - 121-pin connector, on Simos control unit
- 28 - Earth point, on bulkhead, left
- 85 - Earth connection -1-, in engine compartment wiring harness
- A74 - Connection (15a, fuse 5), in dash panel wiring harness
- ** - Does not apply all equipment
- - Only models with automatic gearbox

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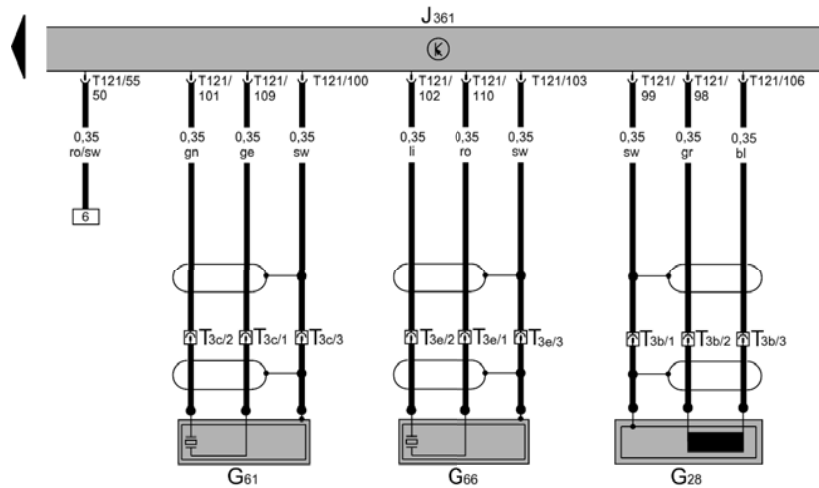
Current Flow Diagram

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Simos control unit, knock sensor, engine speed sender

- G28 - Engine speed sender
- G61 - Knock sensor I
- G66 - Knock sensor II
- J361 - Simos control unit, in protective housing, on left in engine compartment
- T3b - 3-pin connector, grey, left on bulkhead
- T3c - 3-pin connector, green, left on bulkhead
- T3e - 3-pin connector, black, on left of bulkhead
- T12 - 12-pin connector, black
- T121 - 121-pin connector, on Simos control unit
- A64 - Connection (30, rpm boost), in dash panel wiring harness



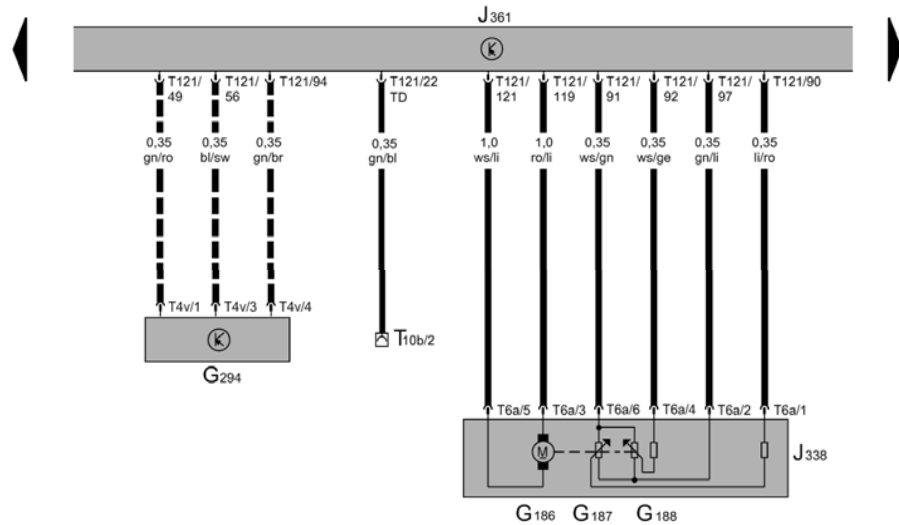
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43 44 45 46 47 48 49 50 51 52 53 54 55 56

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Current Flow Diagram

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Simos control unit, throttle valve control unit, brake servo pressure sensor

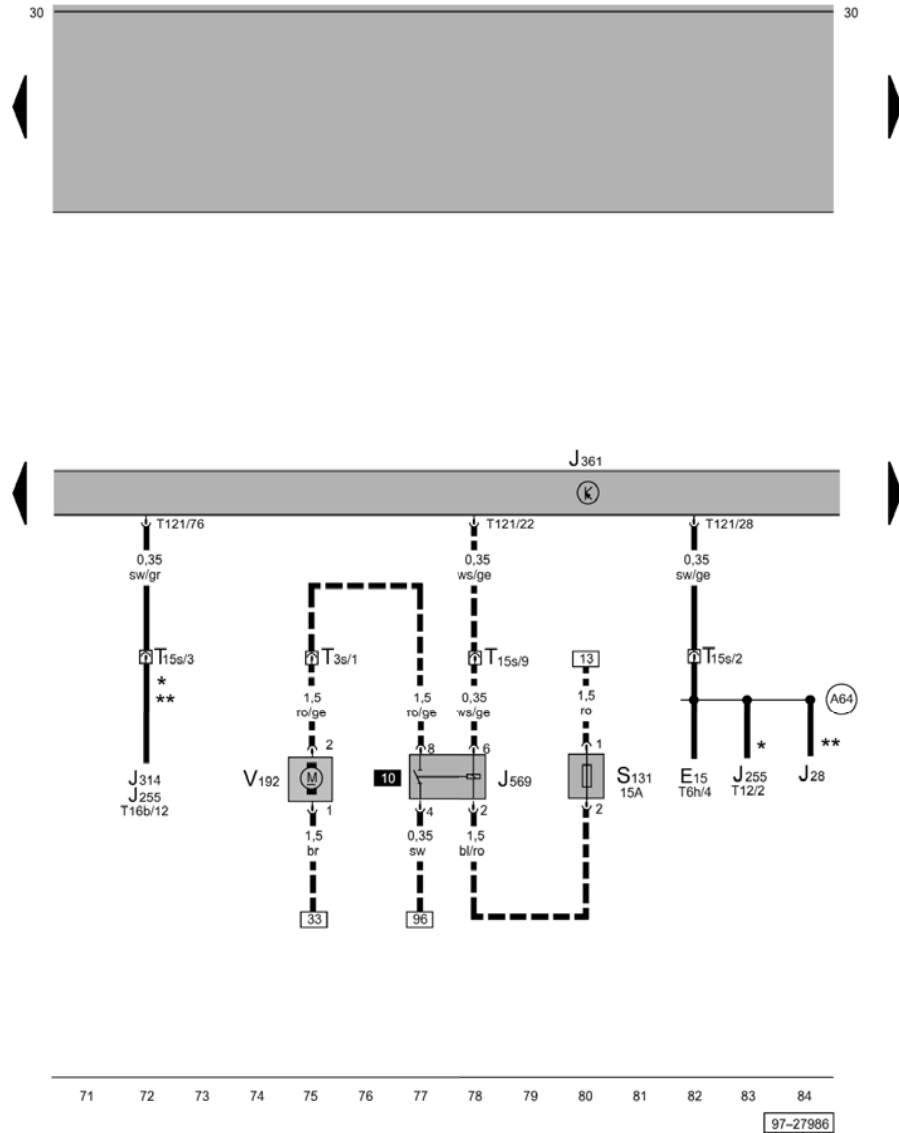
- G186 - Throttle valve drive (electric throttle operation)
- G187 - Throttle valve drive angle sender -1- (electric throttle operation)
- G188 - Throttle valve drive angle sender -2- (electric throttle operation)
- G294 - Brake servo pressure sensor
- J338 - Throttle valve control unit
- J361 - Simos control unit, in protective housing, on left in engine compartment
- T4v - 2-pin connector, black, on brake servo pressure sensor
- T6a - 6-pin connector, black, on throttle valve control unit
- T10b - 10-pin connector, black, on control unit protective housing, in engine compartment, left
- T121 - 121-pin connector, on Simos control unit
- - Only models with automatic gearbox

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Current Flow Diagram

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

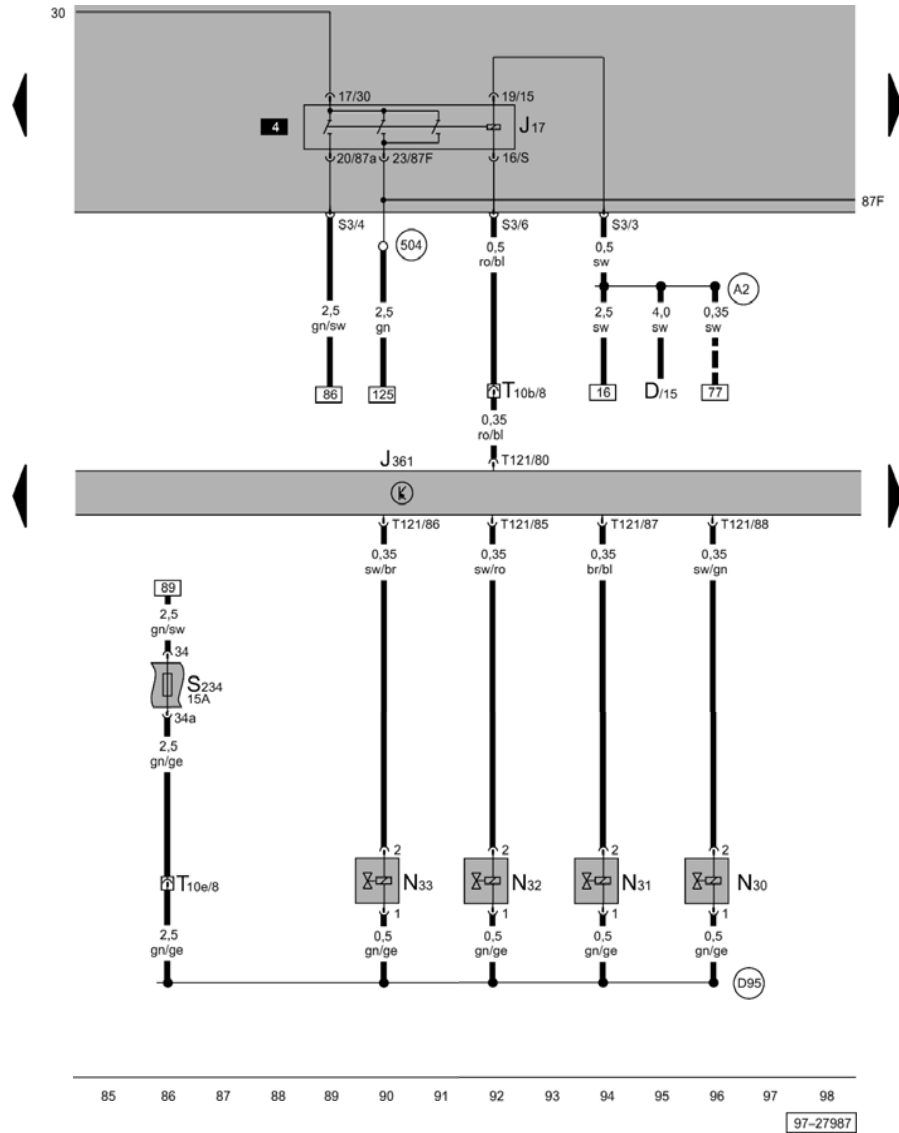
- E15 - Heated rear window switch
- J28 - Air conditioner/heater diode
- J255 - Climatronic control unit
- J314 - Air conditioner cut-off control unit
- J361 - Simos control unit, in protective housing, on left in engine compartment
- J569 - Brake servo relay
- S131 - Fuse 1
- T3s - 3-pin connector, red, on control unit protective housing, in engine compartment, left
- T6h - Single connector, black, on heated rear window switch
- T15s - 15-pin connector, red, on control unit protective housing, in engine compartment, left
- T16b - 16-pin connector, brown, on Climatronic control unit
- T121 - 121-pin connector, on Simos control unit
- V192 - Vacuum pump for brakes
- - Only models with automatic gearbox
- * - Only models with Climatronic
- ** - Only models with air conditioner



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Current Flow Diagram

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Simos control unit, fuel pump relay, injectors

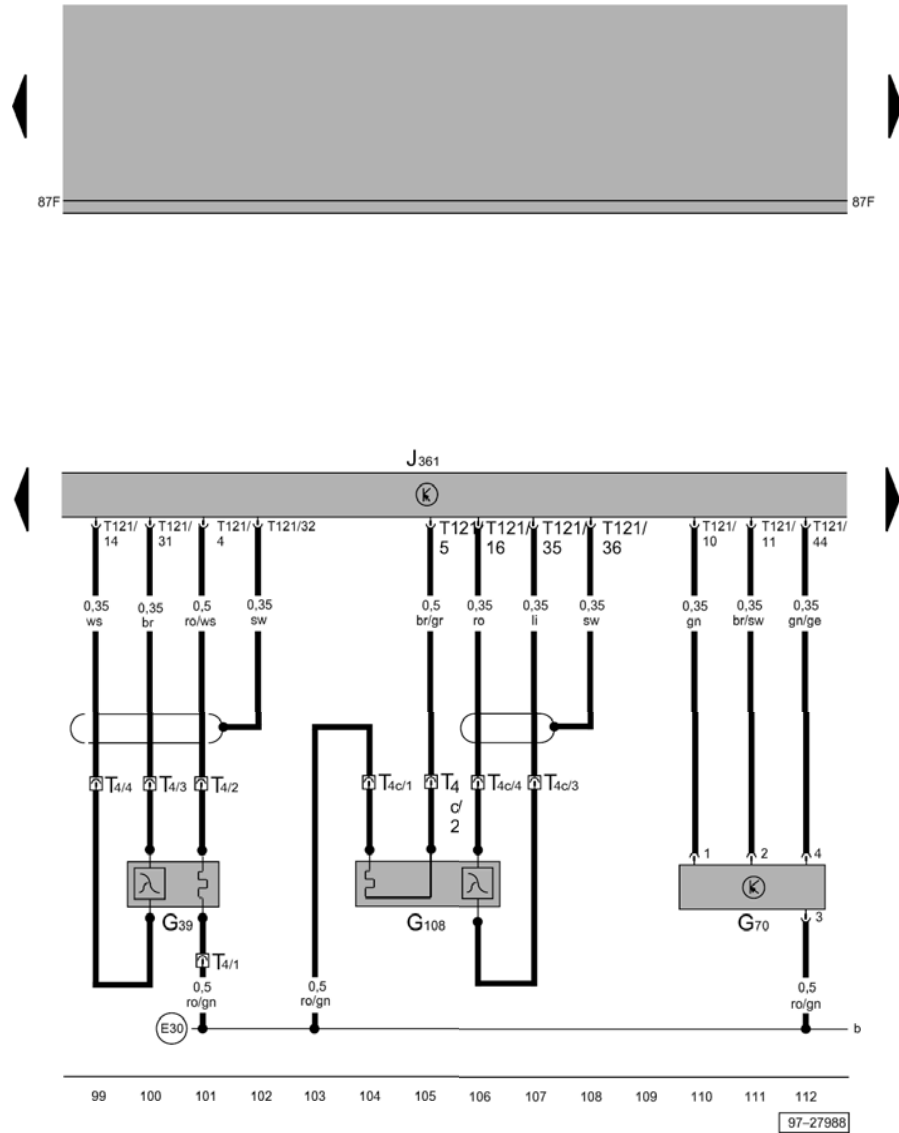
- D - Ignition/starter switch
- J17 - Fuel pump relay
- J361 - Simos control unit, in protective housing, on left in engine compartment
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- S234 - Fuse in fuse box
- T10b - 10-pin connector, black, on control unit protective housing, in engine compartment, left
- T10e - 10-pin connector, orange, on protective housing for control units, on left in engine compartment
- T121 - 121-pin connector, on Simos control unit
- 504 - Screw connection -1- (87), on relay plate
- A2 - Positive (+) connection (15), in dash panel wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness
-
-

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Current Flow Diagram

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Simos control unit, lambda probes, air mass meter

- G39 - Lambda probe
- G70 - Air mass meter
- G108 - Lambda probe II
- J361 - Simos control unit, in protective housing, on left in engine compartment
- T4 - 4-pin connector, black
- T4c - 4-pin connector, brown
- T121 - 121-pin connector, on Simos control unit
- E30 - Connection (87a), in engine wiring harness

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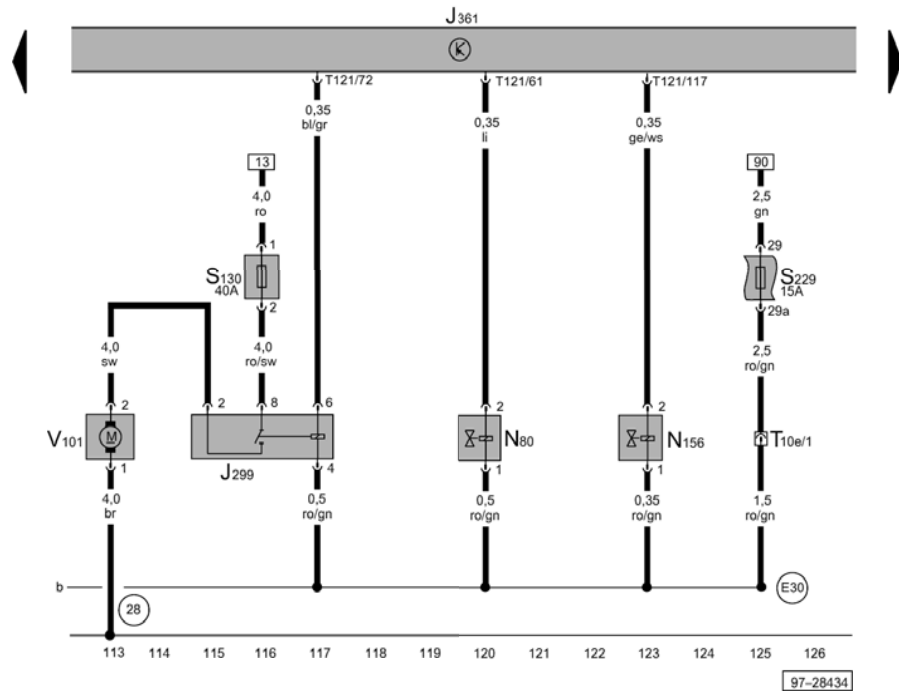
Current Flow Diagram

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Simos control unit, activated charcoal filter system solenoid valve, intake manifold change-over valve, secondary air inlet valve

- J299 - Secondary air pump relay (373), on protective housing for control units, left in engine compartment
- J361 - Simos control unit, in protective housing, on left in engine compartment
- N80 - Activated charcoal filter system solenoid valve I (pulsed)
- N156 - Intake manifold change-over valve
- S130 - Secondary air pump fuse, in protective housing for control units, left in engine compartment
- S229 - Fuse in fuse box
- T10e - 10-pin connector, orange, in protective housing for control units, on left in engine compartment
- T121 - 121-pin connector, on Simos control unit
- V101 - Secondary air pump motor
- 28 - Earth point, on bulkhead, left
- E30 - Connection (87a), in engine wiring harness

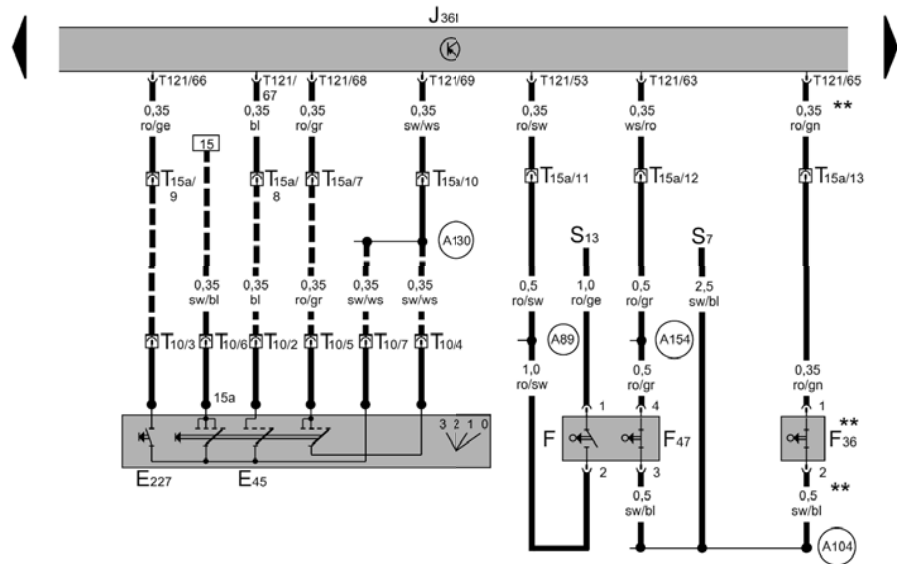


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Current Flow Diagram

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Simos control unit, cruise control system switch (CCS), brake light switch, clutch pedal switch, cruise control system brake pedal switch

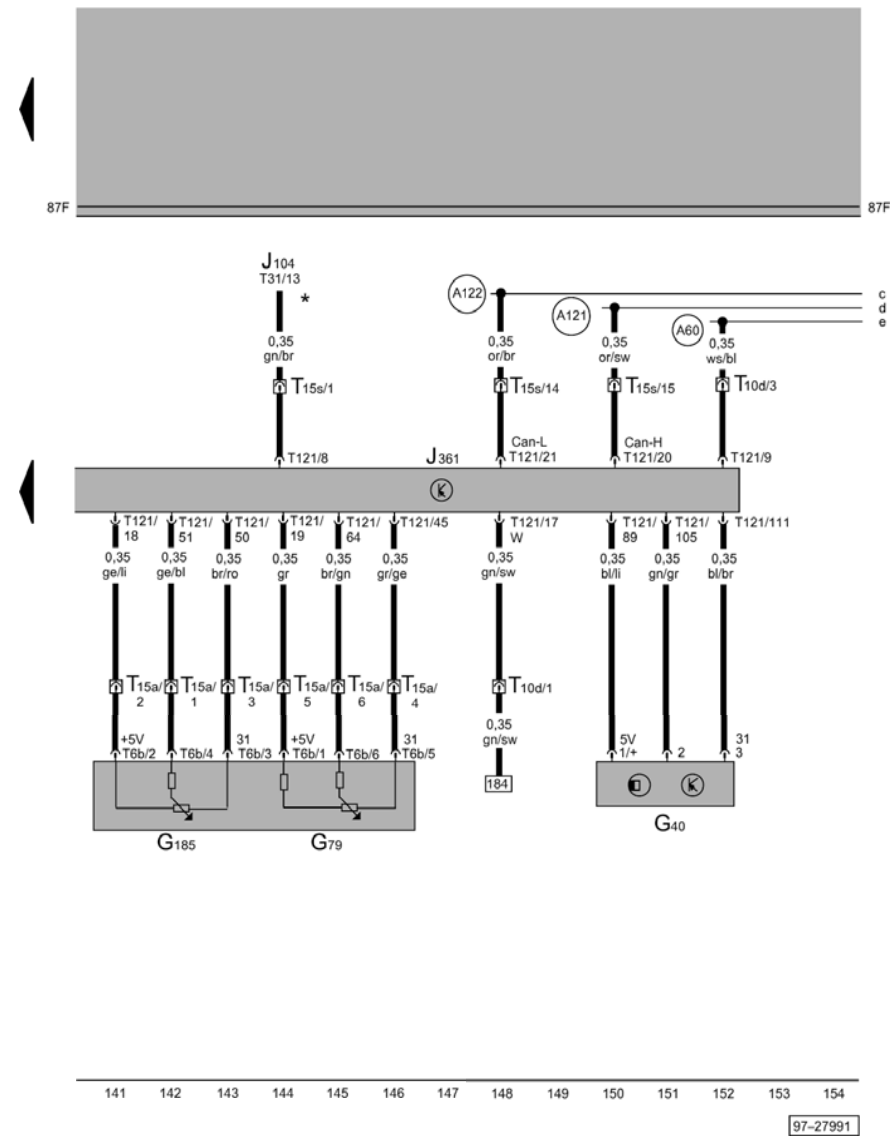
- E45 - Cruise control system switch Position 0 = OFF in detent Position 1 = OFF with button Position 2 = ON Position 3 = RES
- E227 - Cruise control system (CCS) button (Set)
- F - Brake light switch
- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch (diesel direct injection system)
- J361 - Simos control unit, in protective housing, on left in engine compartment
- S7 - Fuse in fuse box/relay plate
- S13 - Fuse in fuse box/relay plate
- T10 - 10-pin connector, black, next to steering column
- T15a - 15-pin connector, white, on protective housing for control units, on left in engine compartment
- T121 - 121-pin connector, on Simos control unit
- A89 - Connection -2- (54), in dash panel wiring harness
- A104 - Positive (+) connection -2- (15), in dash panel wiring harness
- A130 - Connection (cruise control system), in dash panel wiring harness
- A154 - Connection (brake pedal switch), in dash panel wiring harness
- - Only models with cruise control system (CCS)
- ** - Only models with manual gearbox

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Current Flow Diagram

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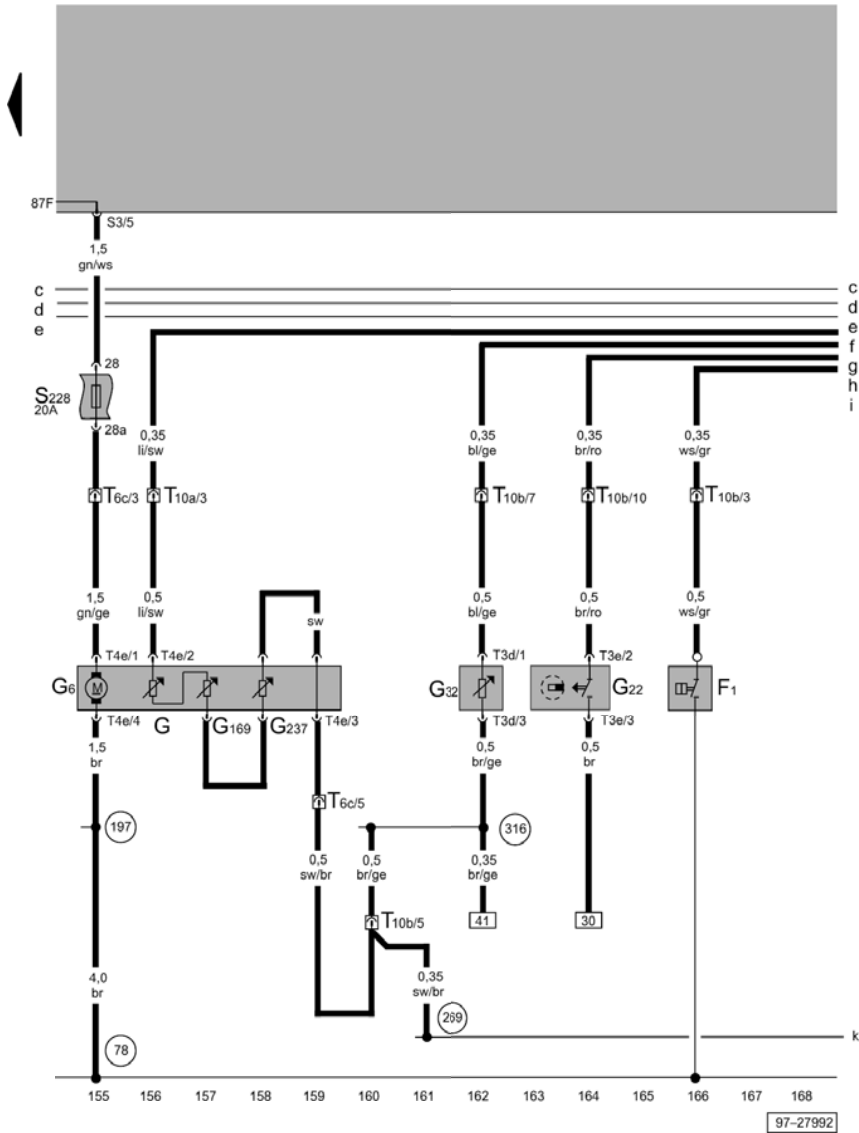
Simos control unit, accelerator pedal position sender, hall sender

- G40 - Hall sender
- G79 - Accelerator pedal position sender
- G185 - Accelerator pedal position sender -2-
- J104 - ABS with EDL control unit
- J361 - Simos control unit, in protective housing, on left in engine compartment
- T6b - 6-pin connector, on accelerator pedal position sender
- T10d - 10-pin connector, brown, on control unit protective housing, in engine compartment, left
- T15a - 15-pin connector, white, on protective housing for control units, on left in engine compartment
- T15s - 15-pin connector, red, on control unit protective housing, in engine compartment, left
- T31 - 31-pin connector, on control unit for ABS with EDL
- T121 - 121-pin connector, on Simos control unit
- A60 - Connection (vehicle speed signal), in instruments wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- * - Only models with ABS

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Current Flow Diagram

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Fuel pump, fuel gauge sender, speedometer sender, coolant shortage indicator sender, oil pressure switch

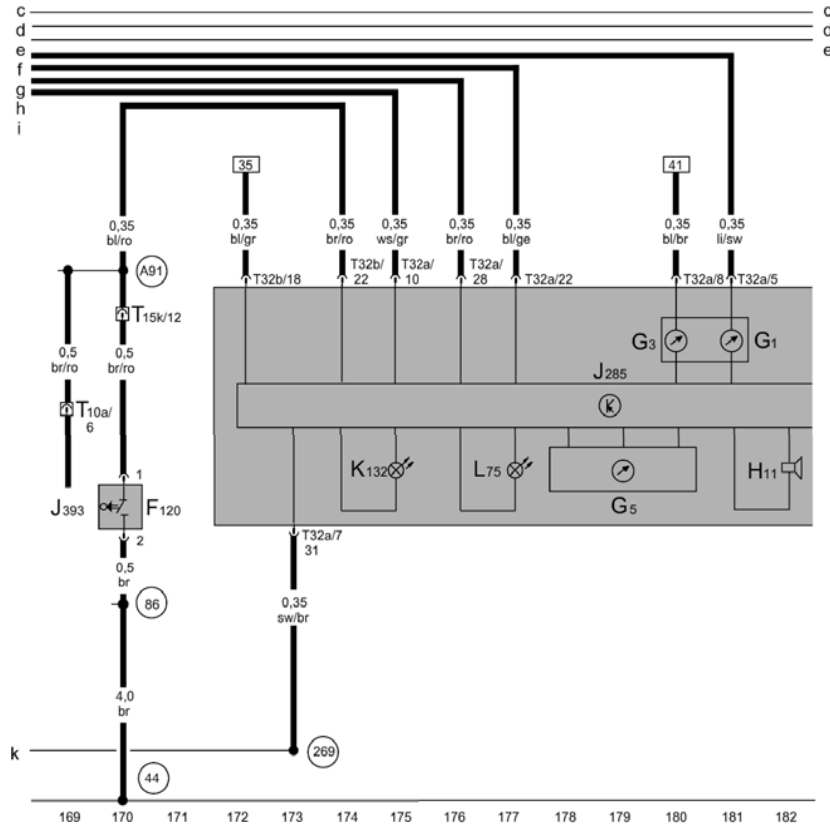
- F1 - Oil pressure switch
- G - Fuel gauge sender
- G6 - Fuel pump
- G22 - Speedometer sender, Hall sender on left in gearbox
- G32 - Coolant shortage indicator sender
- G169 - Fuel gauge sender -2-
- G237 - Fuel gauge sender -3-
- S228 - Fuse in fuse box
- T3d - 3-pin connector, black
- T3e - 3-pin connector, black
- 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
- 78 - Earth point, lower part of right B-pillar
- 197 - Earth connection -4-, in rear wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- 316 - Earth connection (sender earth -2-), in engine wiring harness

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Passat

Current Flow Diagram

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 bl = blue
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 rs = pink

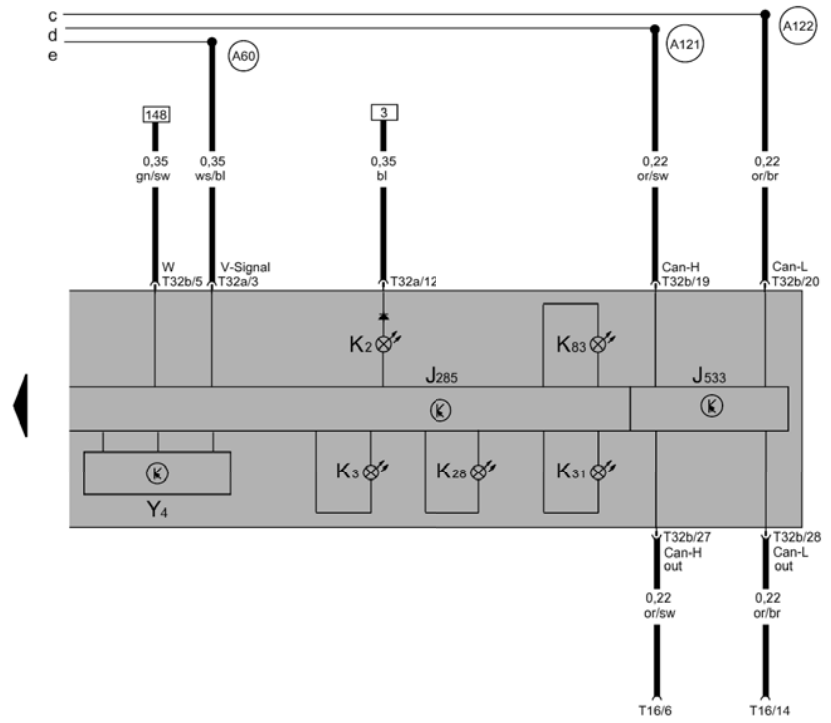
Dash panel insert, optical and acoustical oil pressure warning, coolant temperature gauge, fuel gauge, rev. counter, anti-theft alarm system contact switch

- F120 - Anti-theft alarm/rodent repellent system contact switch
- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- H11 - Oil pressure warning buzzer
- J285 - Control unit with display in dash panel insert
- J393 - Convenience system central control unit
- K132 - Electronic power control fault lamp
- L75 - Digital display illumination
- T10a - 10-pin connector, brown, connector point, left A pillar
- T15k - 15-pin connector, grey
- T32a - 32-pin connector, blue, on dash panel insert
- T32b - 32-pin connector, green, on dash panel insert
- 44 - Earth point, lower part of left A-pillar
- 86 - Earth point -1-, in rear wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- A91 - Connection (signal for dash panel insert), in dash panel wiring harness

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Current Flow Diagram

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Dash panel insert, alternator warning lamp, cruise control system warning lamp, glow period warning lamp, data bus diagnostic interface, self-diagnosis connection, odometer display, coolant shortage indicator

- J285 - Control unit with display in dash panel insert
- J533 - Data bus diagnostic interface
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K31 - Cruise control system warning lamp
- K83 - Exhaust emissions warning lamp
- T16 - 16-pin connector, near handbrake lever, self-diagnosis connection
- T32a - 32-pin connector, blue, on dash panel insert
- T32b - 32-pin connector, green, on dash panel insert
- Y4 - Odometer display
- A60 - Connection (vehicle speed signal), in instruments wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness

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