

Passat

Current Flow Diagram

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Edition 05.2007

2.0 I/85 kW - Simos, engine code AZM

From October 2000

Notes:

For information concerning

- ◆ Relay and fuse assignment
- ◆ Multi-pin connectors
- ◆ Control units and relays
- ◆ Earth connections

→ List of Fitting Locations!

For information concerning

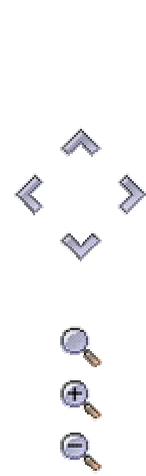
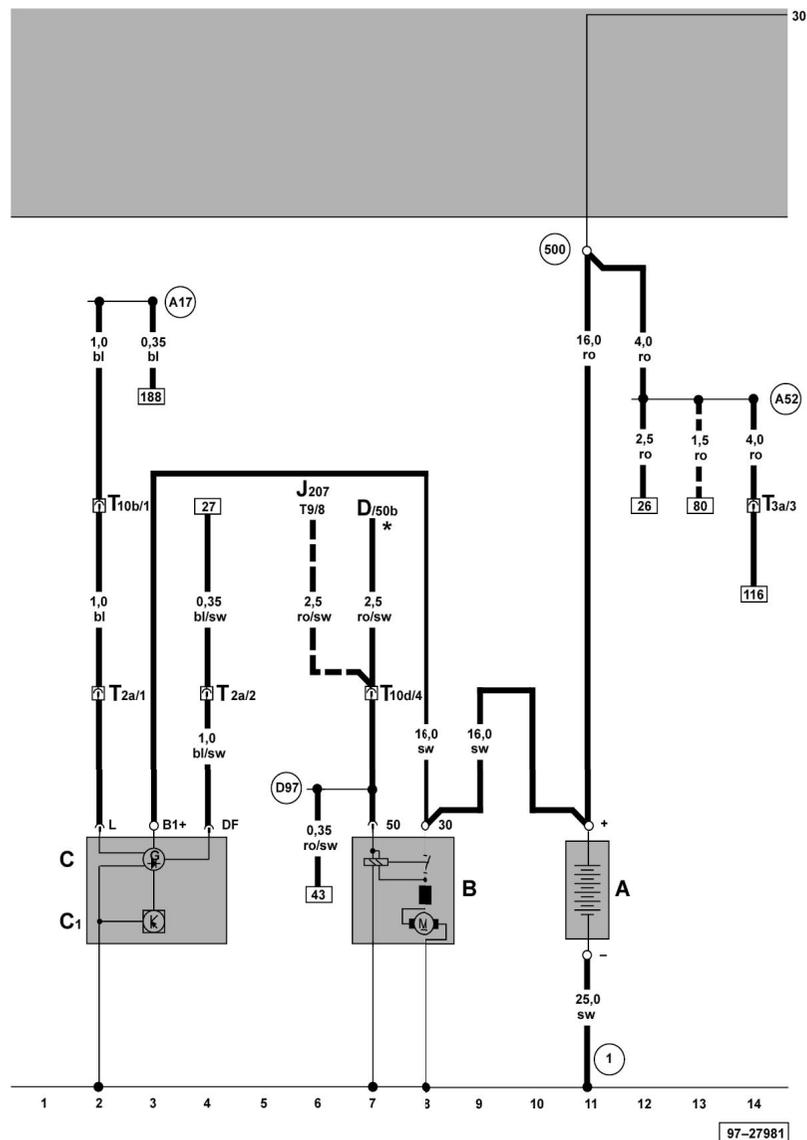
- ◆ Fault Finding Programs

→ Guided Fault Finding

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Current Flow Diagram

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Battery, starter, alternator, voltage regulator

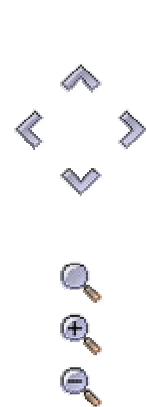
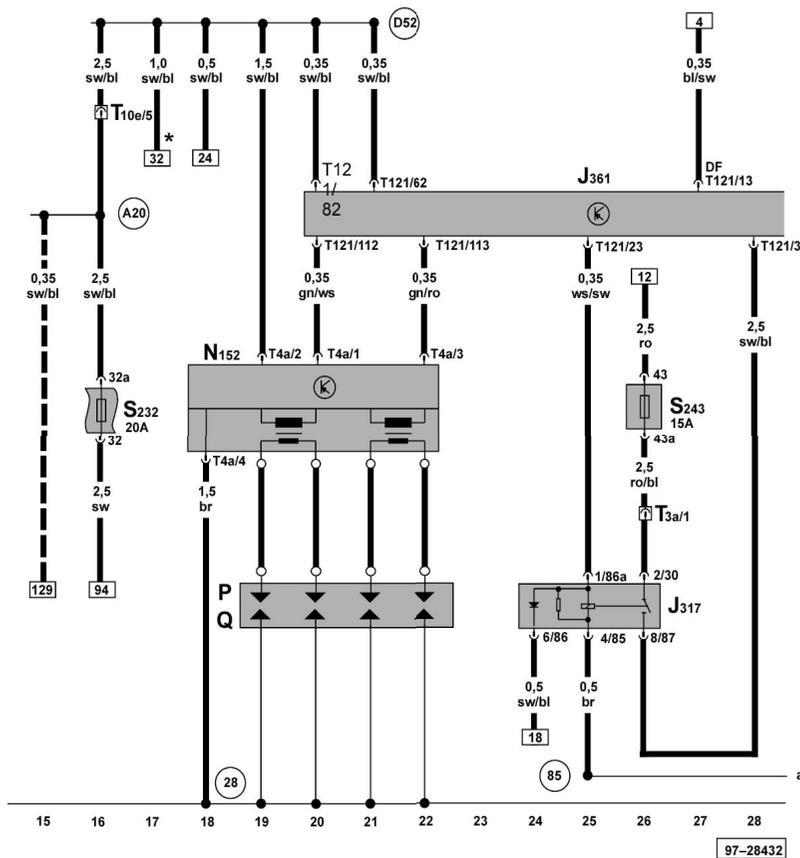
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J207 - Starter inhibitor relay
- T2a - 2-pin connector, black
- T3a - 3-pin connector, white, on protective housing for control units on left in engine compartment
- T9 - 9-pin connector, black
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10d - 10-pin connector, brown, on protective housing for control units on left in engine compartment
- 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 right wiring harness
- * - Only models with manual gearbox
- - Only models with automatic gearbox

ws = white
 sw = black
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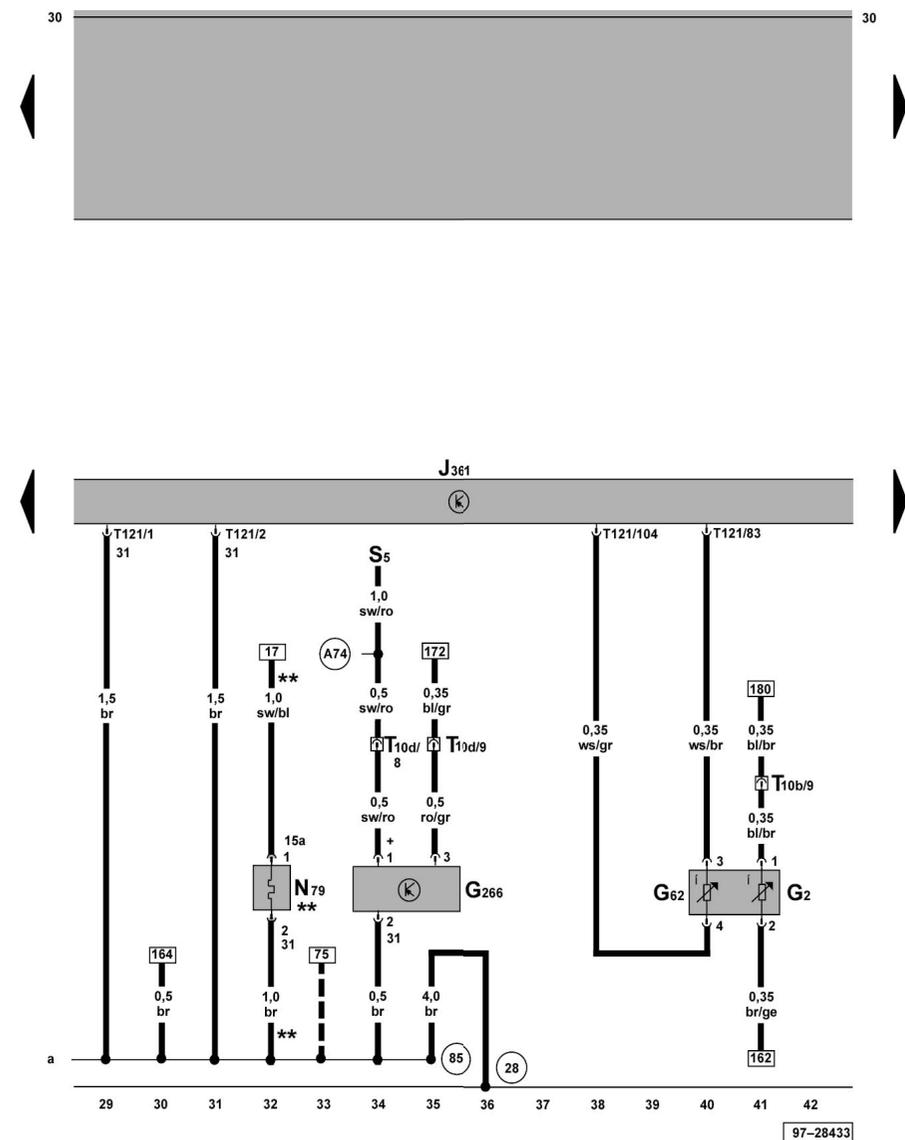
- Simos control unit, ignition system, voltage supply relay**
- J317 - Terminal 30 voltage supply relay, in protective housing for control units
 - J361 - Simos control unit, in protective housing on left in engine compartment
 - N152 - Ignition transformer
 - P - Spark plug connector
 - Q - Spark plug
 - S232 - Fuse in fuse holder
 - S243 - Fuse in fuse holder
 - T3a - 3-pin connector, white, on protective housing for control units on left in engine compartment
 - T4a - 4-pin connector, black, on output stage for ignition coils
 - 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 left on plenum chamber
 - 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)
 - * - Not with all levels of equipment

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Simos control unit, coolant temperature display sender, oil level and oil temperature sender

- G2 - Coolant temperature sender
- G62 - Coolant temperature sender
- G266 - Oil level and oil temperature sender
- J361 - Simos control unit, in protective housing on left in engine compartment
- N79 - Heater element for crankcase breather, not with all levels of equipment
- S5 - Fuse in relay plate fuse holder
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10d - 10-pin connector, brown, on protective housing for control units on left in engine compartment
- T121 - 121-pin connector, on Simos control unit
- 28 - Earth point, on left on plenum chamber
- 85 - Earth connection 1, in engine compartment wiring harness
- A74 - Connection (15a, fuse 5), in dash panel wiring harness
- ** - Not with all levels of equipment
- - Only models with automatic gearbox

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Current Flow Diagram

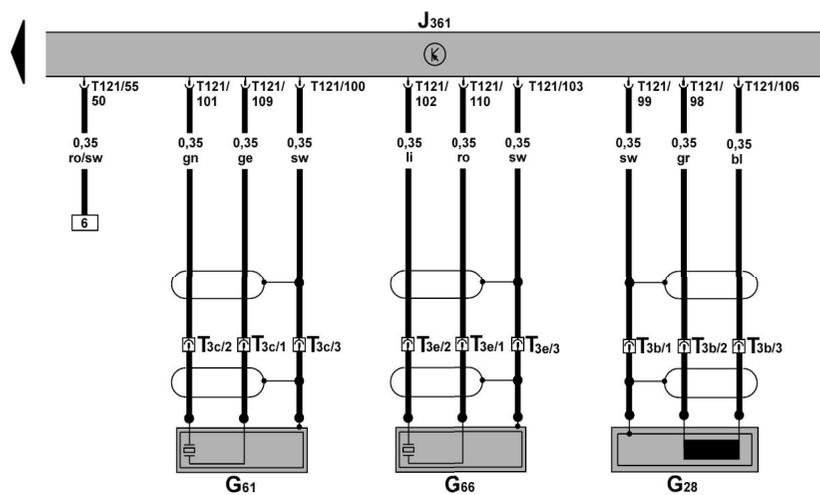
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Simos control unit, knock sensor, engine speed sender

- G28 - Engine speed sender
- G61 - Knock sensor 1
- G66 - Knock sensor 2
- J361 - Simos control unit, in protective housing on left in engine compartment
- T3b - 3-pin connector, grey, on left on bulkhead
- T3c - 3-pin connector, green, on left on bulkhead
- T3e - 3-pin connector, black, on left on bulkhead
- T12 - 12-pin connector, black
- T121 - 121-pin connector, on Simos control unit
- A64 - Connection (30, speed boost), in dash panel wiring harness



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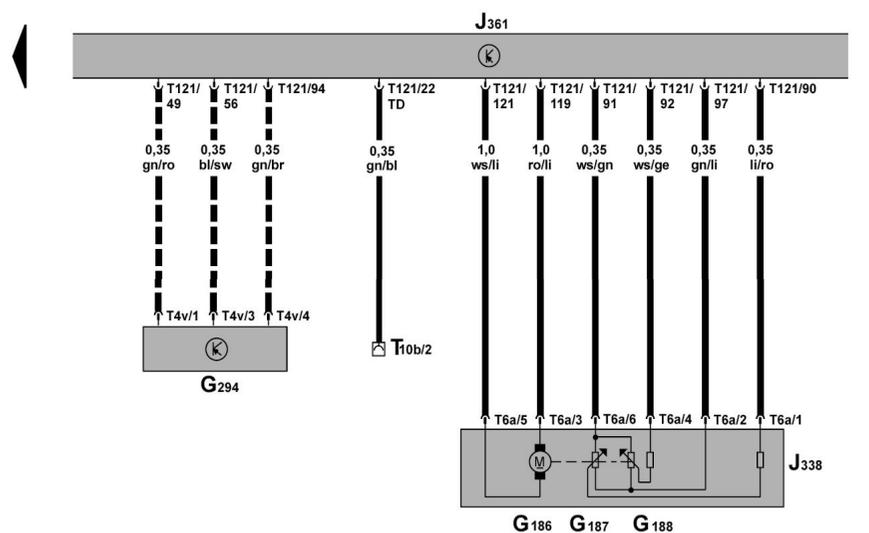
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Simos control unit, throttle valve module, brake servo pressure sensor

- 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)
- G294 - Brake servo pressure sensor
- J338 - Throttle valve module
- J361 - Simos control unit, in protective housing on left in engine compartment
- T4v - 4-pin connector, black, on brake servo pressure sensor
- T6a - 6-pin connector, black, on throttle valve control module
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T121 - 121-pin connector, on Simos control unit
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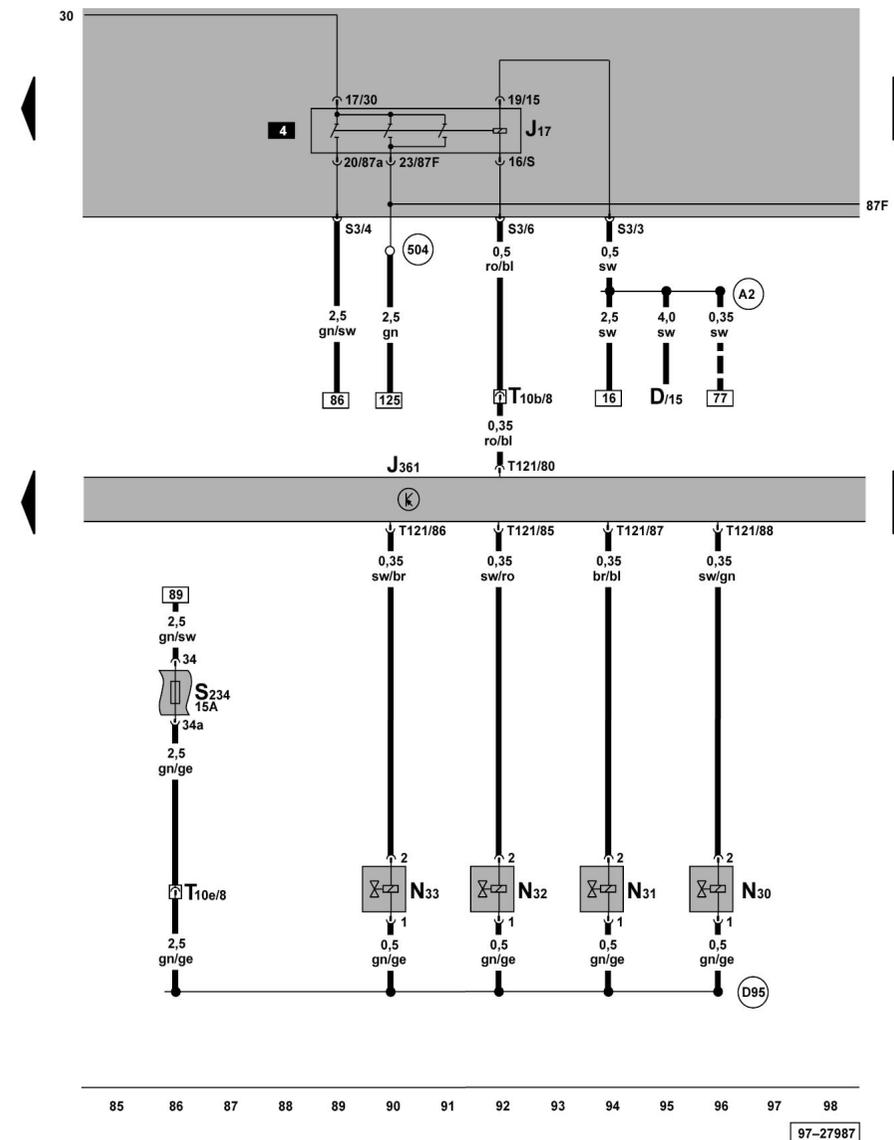
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Simos control unit, fuel pump relay, injectors

- 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 holder
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- 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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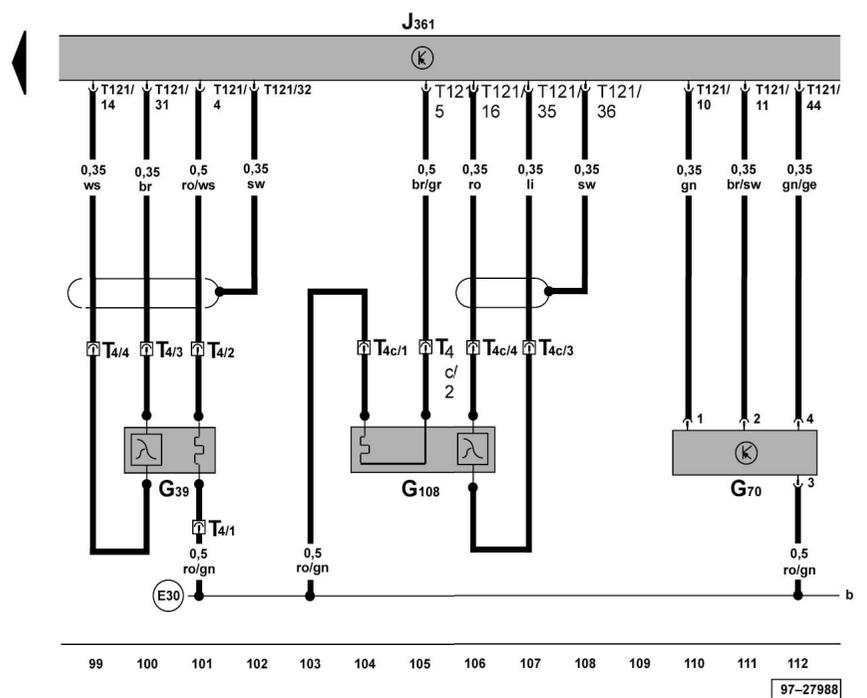
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Simos control unit, Lambda probes, air mass meter

- G39 - Lambda probe
- G70 - Air mass meter
- G108 - Lambda probe 2
- 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

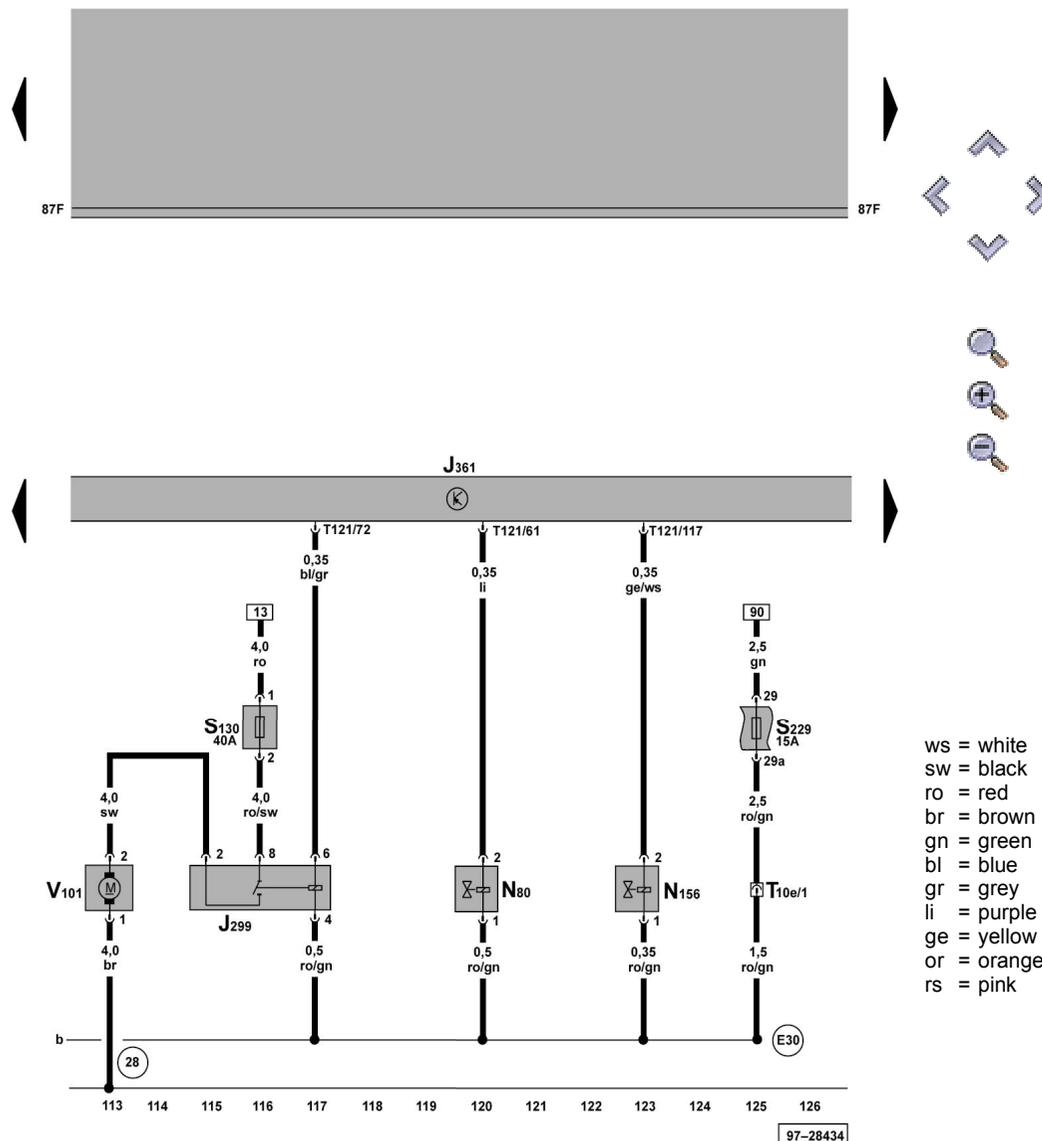


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Current Flow Diagram

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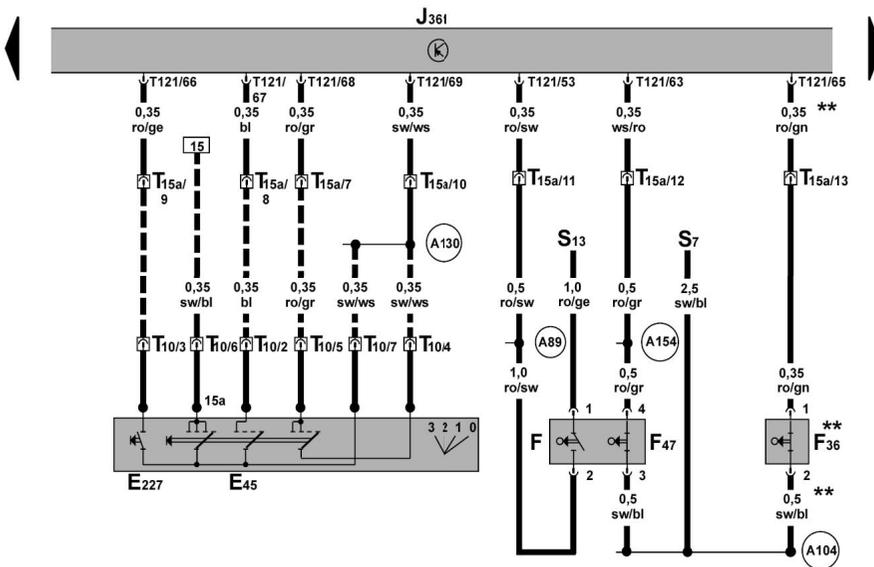


- Simos control unit, activated charcoal filter system solenoid valve, variable intake manifold changeover valve, secondary air system**
- J299 - Secondary air pump relay (373), in protective housing for control units on left in engine compartment
 - J361 - Simos control unit, in protective housing on left in engine compartment
 - N80 - Activated charcoal filter system solenoid valve 1 (pulsed)
 - N156 - Variable intake manifold changeover valve
 - S130 - Secondary air pump fuse, in protective housing for control units on left in engine compartment
 - S229 - Fuse in fuse holder
 - 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 left on plenum chamber
 - E30 - Connection (87a), in engine wiring harness

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Current Flow Diagram

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ws = white
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Simos control unit, cruise control system (CCS) switch, brake light switch, clutch pedal switch, brake pedal switch for CCS

- 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) SET button
- 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 relay plate fuse holder
- S13 - Fuse in relay plate fuse holder
- 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

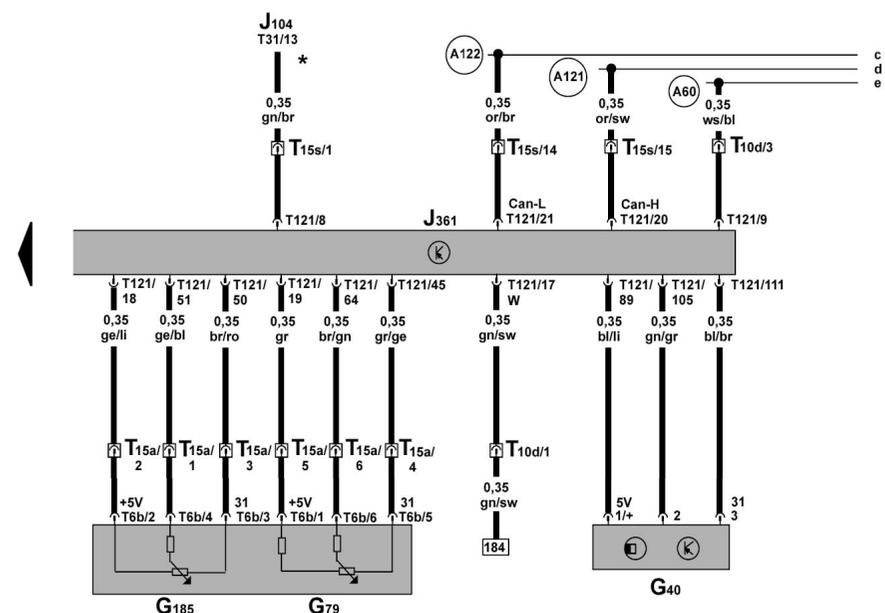
127 128 129 130 131 132 133 134 135 136 137 138 139 140

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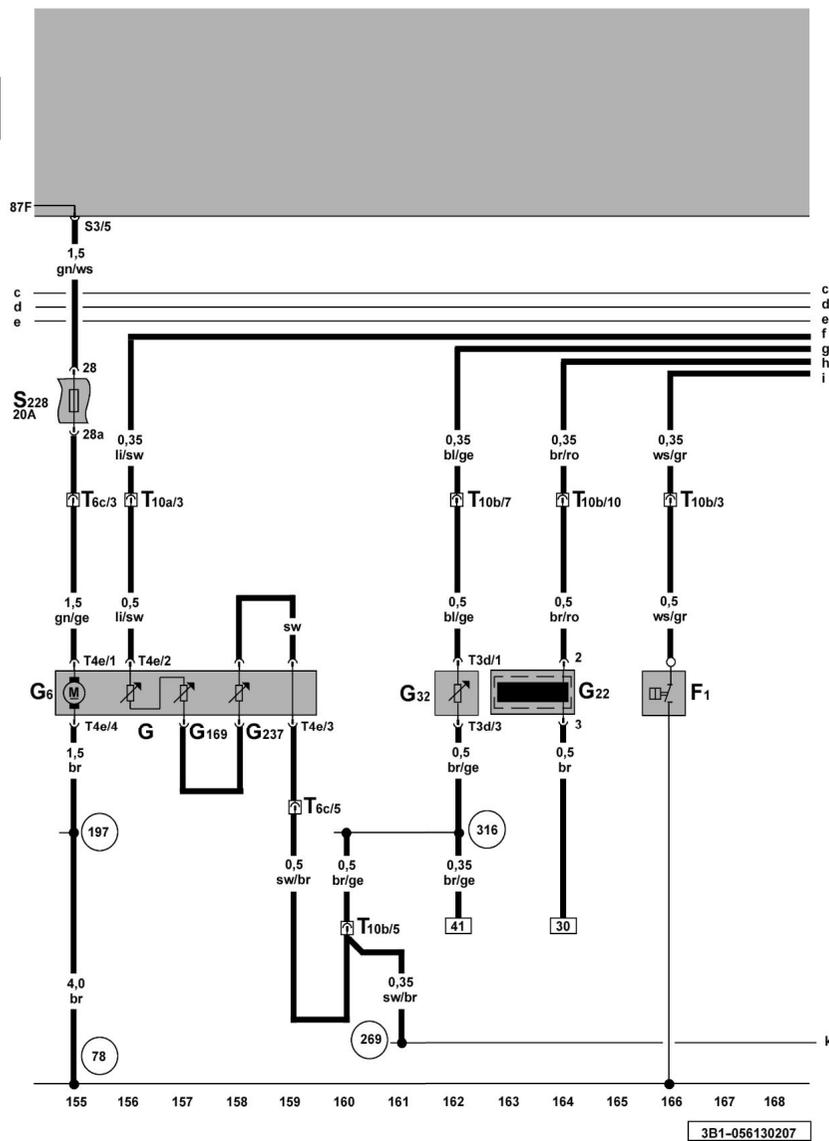
ws = white
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- Simos control unit, accelerator position sender, Hall sender**
- G40 - Hall sender
 - G79 - Accelerator position sender
 - G185 - Accelerator position sender 2
 - J104 - ABS with EDL control unit
 - J361 - Simos control unit, in protective housing on left in engine compartment
 - T6b - 6-pin connector, on accelerator position sender
 - T10d - 10-pin connector, brown, on protective housing for control units on left in engine compartment
 - T15a - 15-pin connector, white, on protective housing for control units on left in engine compartment
 - T15s - 15-pin connector, red, on protective housing for control units on left in engine compartment
 - T31 - 31-pin connector, on ABS with EDL control unit
 - T121 - 121-pin connector, on Simos control unit
 - A60 - Connection (speed signal), in dash panel 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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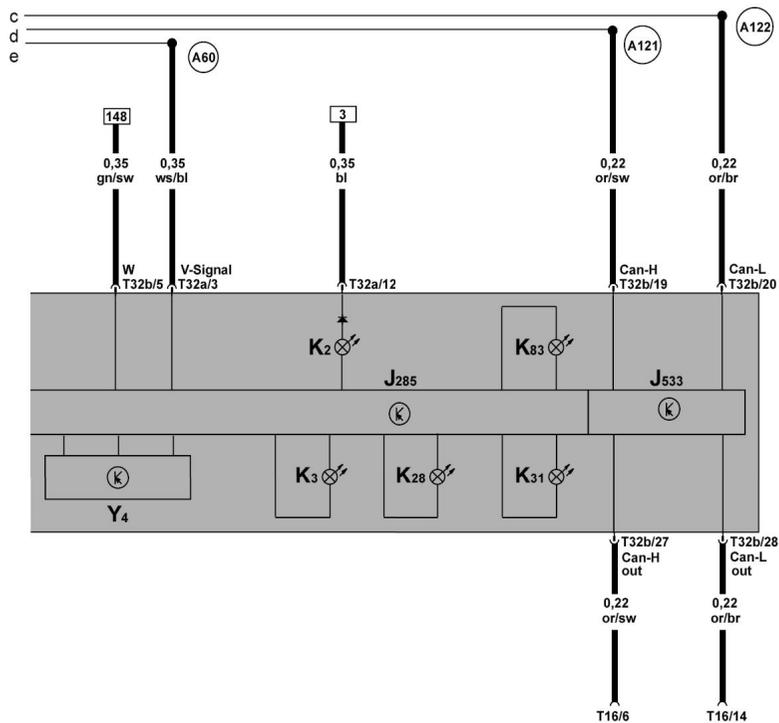


Fuel system pressurisation pump, fuel gauge sender, speedometer sender, coolant shortage indicator sender, oil pressure switch, fuel gauge senders 2 and 3

- F1 - Oil pressure switch
- G - Fuel gauge sender
- G6 - Fuel system pressurisation pump
- G22 - Speedometer sender, inductive sender on left in gearbox
- G32 - Coolant shortage indicator sender
- G169 - Fuel gauge sender 2
- G237 - Fuel gauge sender 3
- S228 - Fuse in fuse holder
- T3d - 3-pin connector, black
- T4e - 4-pin connector, black
- T6c - 6-pin connector, blue, left A-pillar coupling station
- T10a - 10-pin connector, brown, left A-pillar coupling station
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- 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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Dash panel insert, alternator warning lamp, CCS warning lamp, glow period warning lamp, data bus diagnostic interface, self-diagnosis connection, odometer display, coolant shortage indicator sender

- J285 - Display control unit, 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 (speed signal), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness

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