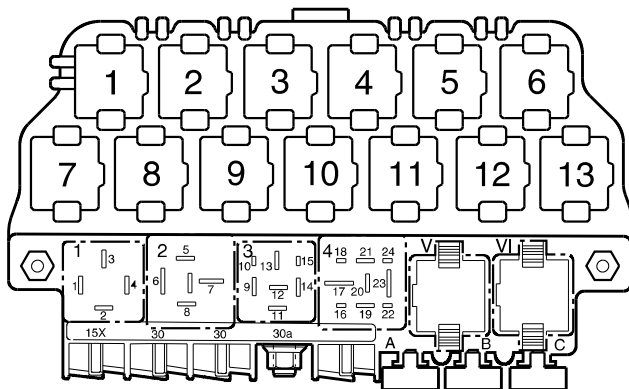


1.6 I/77 kW 4LV, engine codes BCB

From May 2002

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:



97-14163

Relay locations on relay plate:

2 - J59 - X contact relief relay (100)

4 - J17 - Fuel pump relay (409)



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

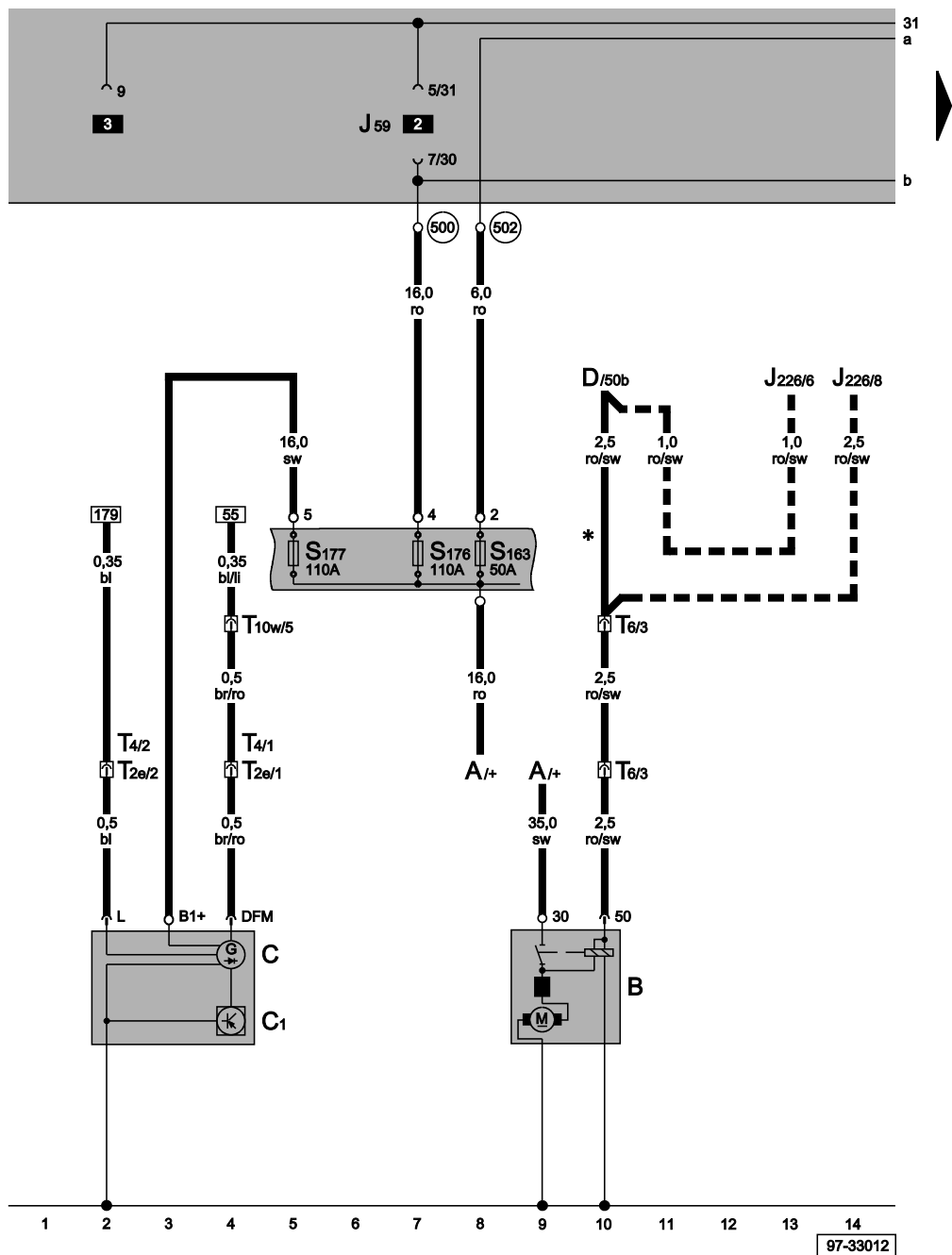
15 A - blue

10 A - red

7.5 A - brown

5 A - beige

3 A - purple



Alternator, starter

- A Battery
 - B Starter
 - C Alternator
 - C1 Voltage regulator
 - D Ignition/starter switch
 - J59 X contact relief relay
 - J226 Starter inhibitor and reversing light relay
 - S163 Fuse -2- (30), in fuse box/battery
 - S176 Fuse -4- (30), in fuse box/battery
 - S177 Fuse -5- (30), in fuse box/battery
 - T2e 2-pin connector, near starter (only models without air conditioner)
 - T4 4-pin connector, near starter (only models with air conditioner)
 - T6 6-pin connector, brown, in protective housing for connectors, on left in plenum chamber
 - T10w 10-pin connector, white, in protective housing for connectors, on left in plenum chamber
- 500 Screw connection -1- (30), on relay plate
- 502 Screw connection -1- (30a), on relay plate
- * Only models with manual gearbox
- Only models with automatic gearbox

4LV control unit (injection system), crankcase breather heater element

- D Ignition and starter switch
- J448 4AV/4CV control unit, injection system, in centre of plenum chamber
- N79 Crankcase breather heater element
- S229 Fuse 29 in fuse holder
- S237 Fuse 37 in fuse holder
- T6 6-pin connector, brown, in protective housing for connectors, on left in plenum chamber
- T14a 14-pin connector, near battery
- T121 121-pin connector

85 Earth connection 1, in engine compartment wiring harness

501 Screw connection 2 (30), on relay plate

608 Earth point, in centre of plenum chamber

A2 Positive connection (15), in dash panel wiring harness

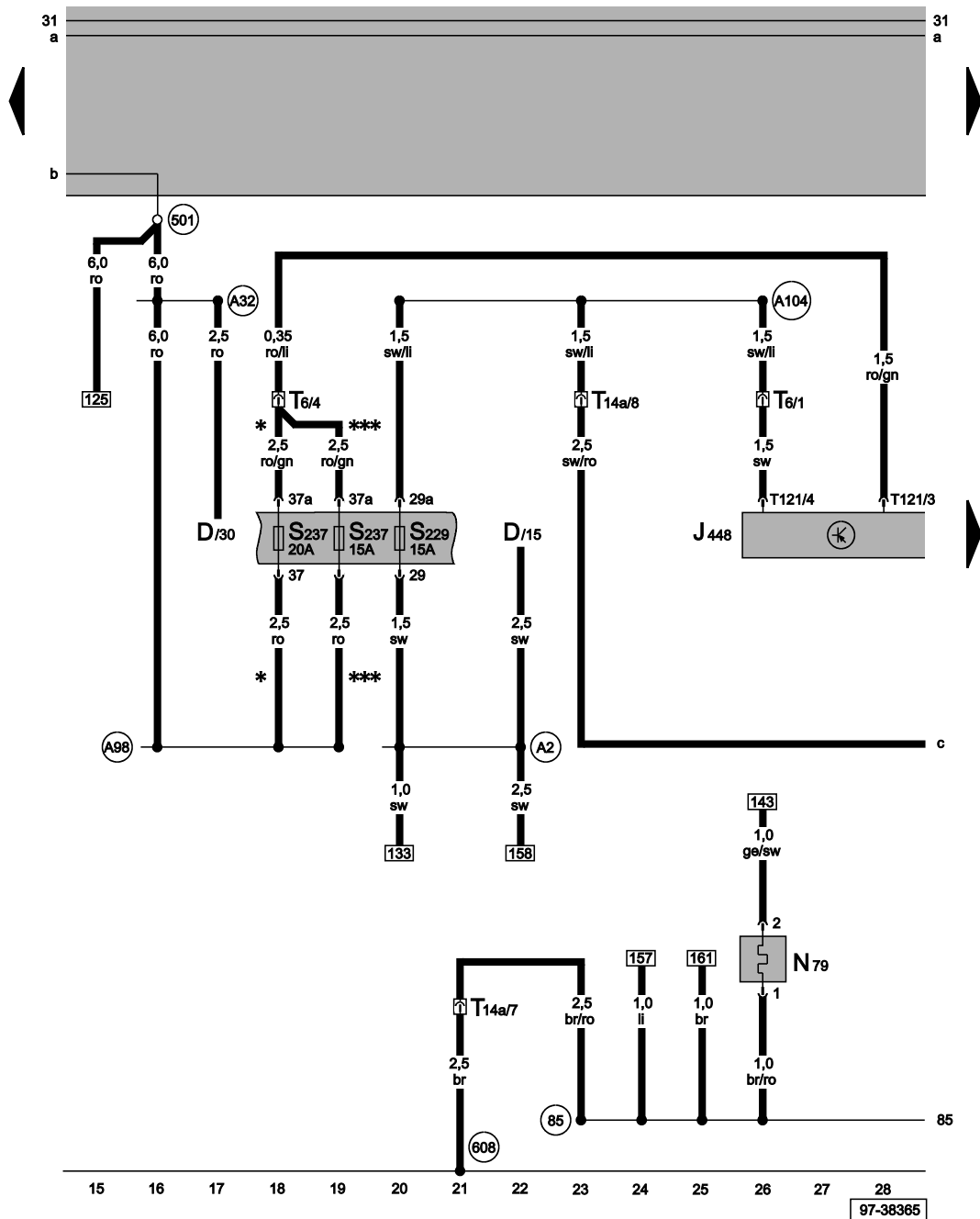
A32 Positive connection (30), in dash panel wiring harness

A98 Positive connection 4 (30), in dash panel wiring harness

A104 Positive connection 2 (15), in dash panel wiring harness

* From May 2003

*** Up to April 2003

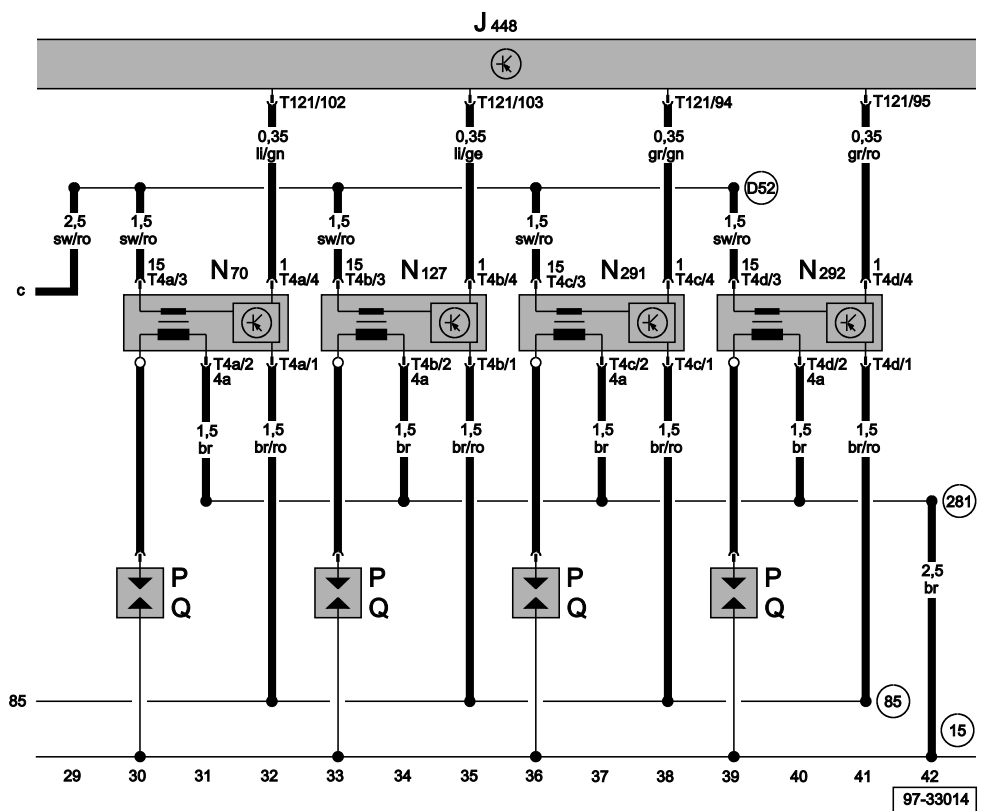
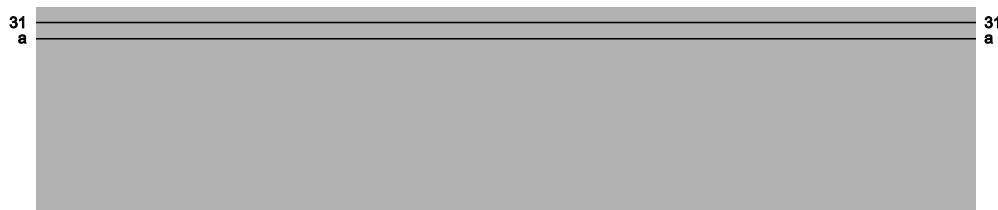


- ws = white
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- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

4LV control unit (injection system), ignition system

- J448 4LV control unit (injection system), in plenum chamber, centre
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- P Spark plug connector
- Q Spark plugs
- T4a 4-pin connector
- T4b 4-pin connector
- T4c 4-pin connector
- T4d 4-pin connector
- T121 121-pin connector

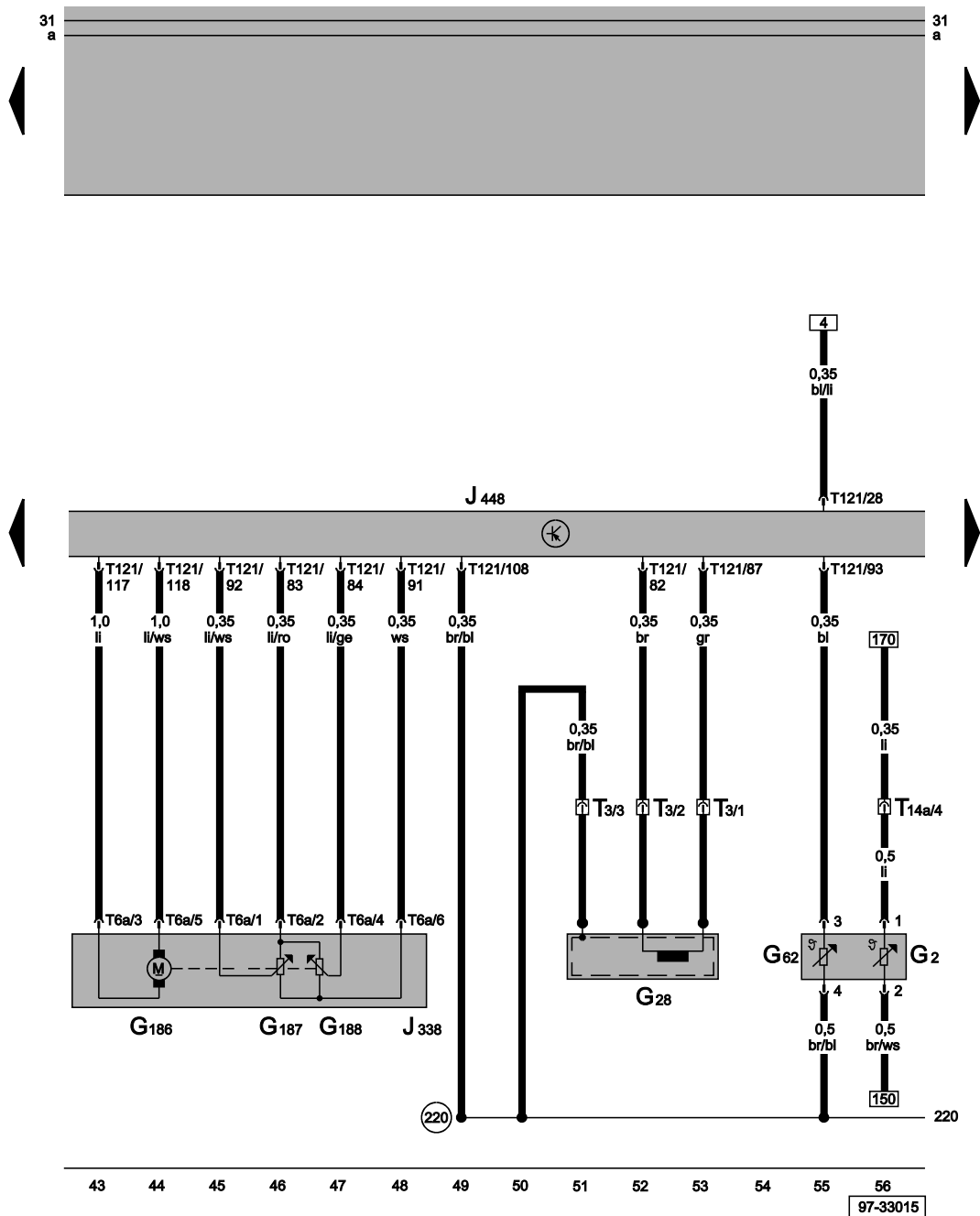
- 15 Earth point, on cylinder head
- 85 Earth connection -1-, in engine compartment wiring harness
- 281 Earth connection -1-, in engine prewiring wiring harness
- D52 Positive (+) connection (15a), in engine compartment wiring harness

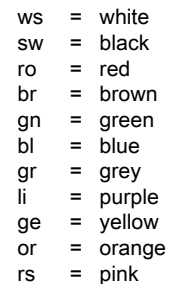


4LV control unit (injection system), throttle valve control module, engine speed sender, coolant temperature sender

- G2 Coolant temperature sender
- G28 Engine speed sender
- G62 Coolant temperature sender
- 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)
- J338 Throttle valve control unit
- J448 4LV control unit (injection system), in plenum chamber, centre
- T3 3-pin connector, on engine front
- T6a 6-pin connector
- T14a 14-pin connector, near battery
- T121 121-pin connector

(220) Earth connection (sender earth), in engine wiring harness





4LV control unit (injection system)

- J104 ABS/ABS with EDL control unit
- J217 Automatic gearbox control unit
- J448 4LV control unit (injection system), in plenum chamber, centre
- T10w 10-pin connector, white, in protective housing for connectors, on left in plenum chamber
- T47a 47-pin connector, ABS with EDL/TCS/ESP control unit
- T68 68-pin connector
- T121 121-pin connector

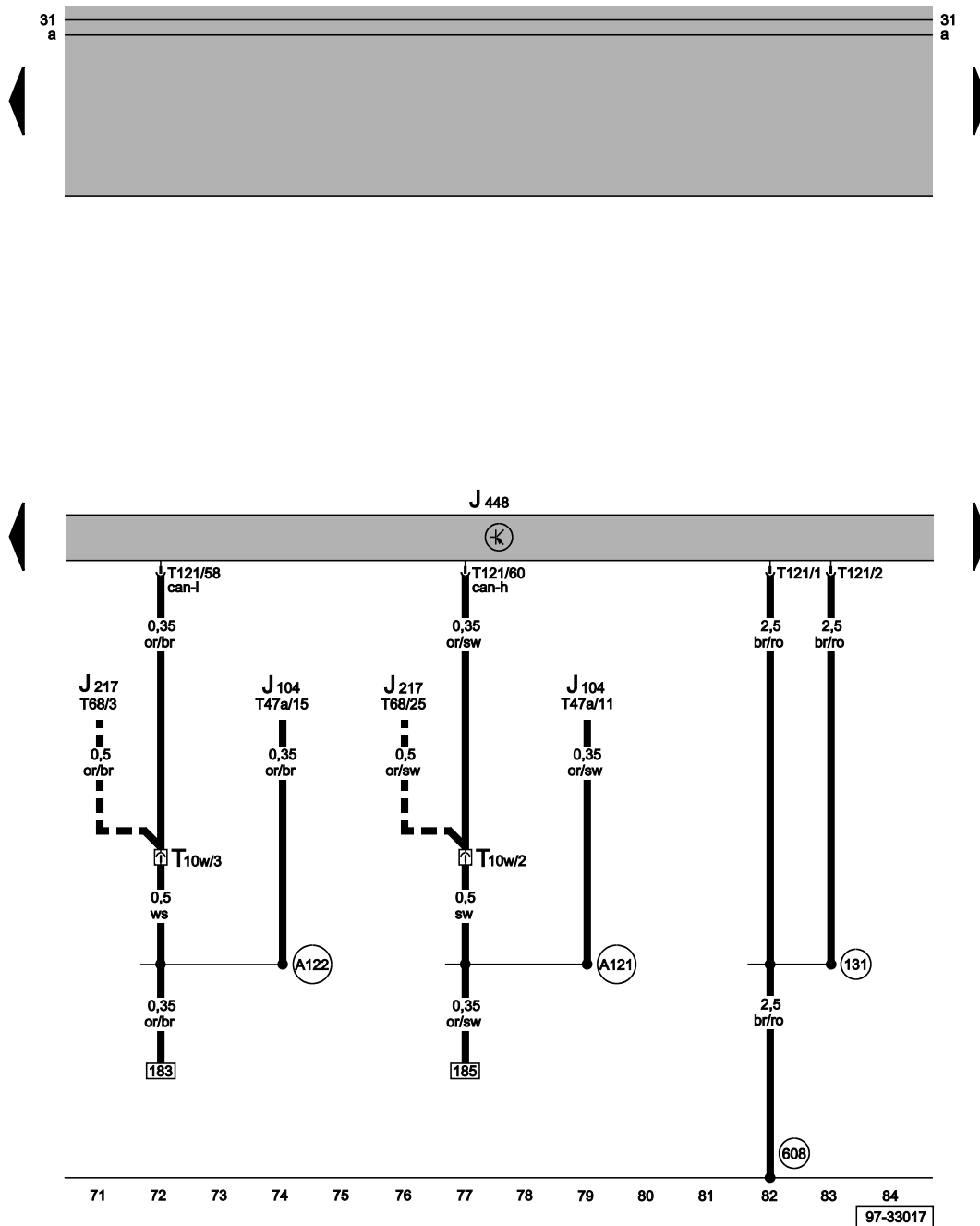
(131) Earth connection -2-, in engine compartment wiring harness

(608) Earth point, in plenum chamber, centre

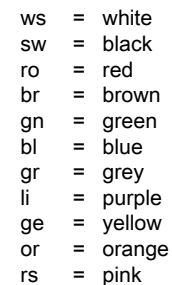
(A121) Connection (high bus), in dash panel wiring harness

(A122) Connection (low bus), in dash panel wiring harness

--- Only models with automatic gearbox



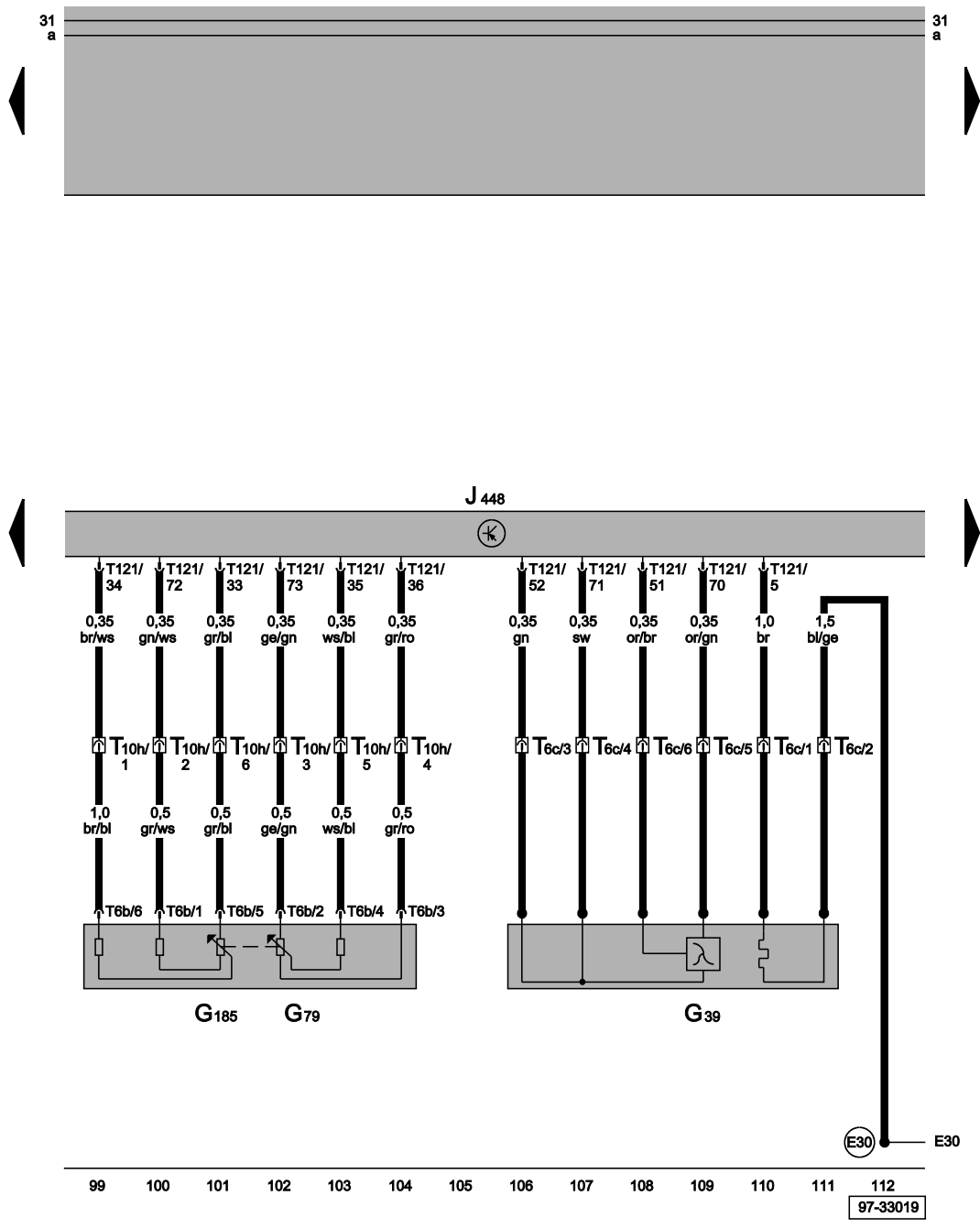
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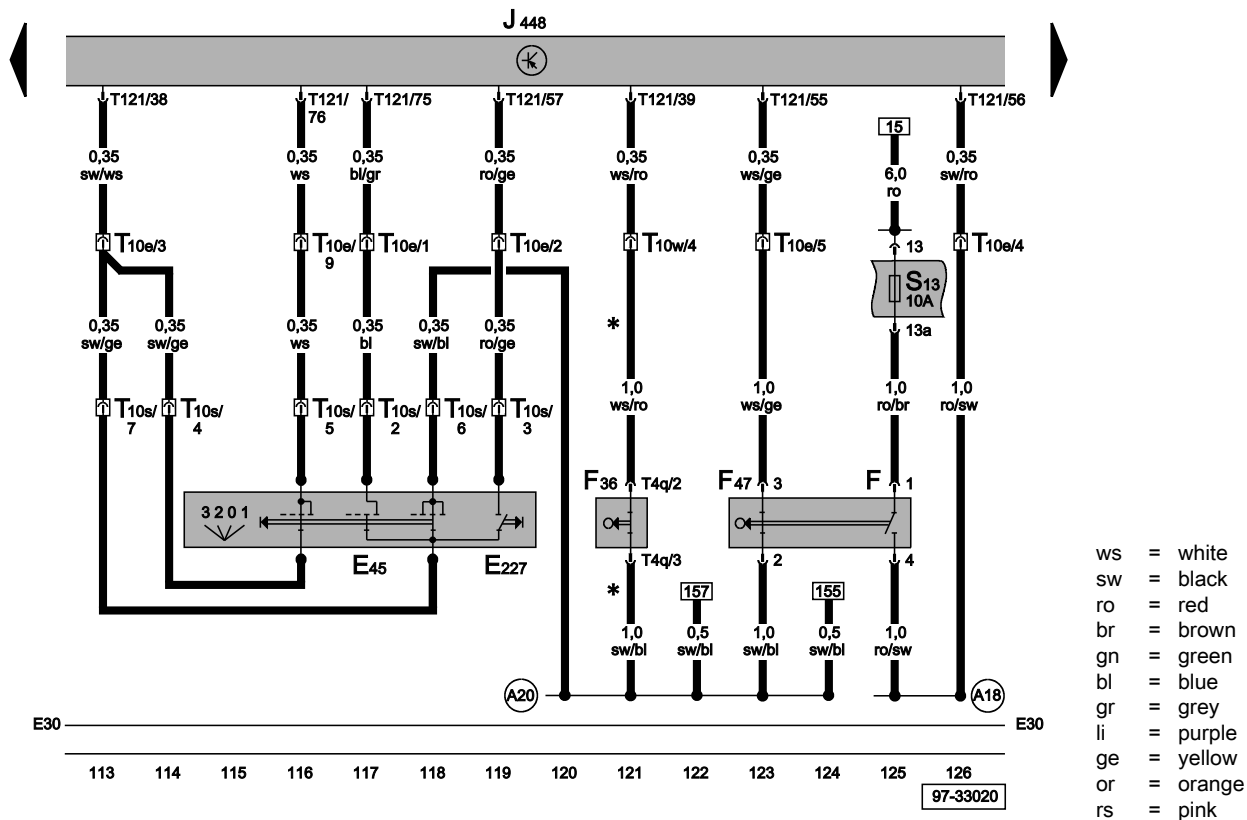
- A101 Connection -3- (87), in dash panel wiring harness
- D95 Connection (injectors), in engine compartment wiring harness
- D102 Connection -2-, in engine compartment wiring harness

4LV control unit (injection system), accelerator pedal position sender, lambda probe (before catalytic converter)

- G39 Lambda probe
- G79 Accelerator pedal position sender
- G185 Accelerator pedal position sender -2-
- J448 4LV control unit (injection system), in plenum chamber, centre
- T6b 6-pin connector
- T6c 6-pin connector, near catalyst
- T10h 10-pin connector, blue, in protective housing for connectors, on left in plenum chamber
- T121 121-pin connector
- (E30) Connection (87a), in engine wiring harness



- * Only models with manual gearbox
** Only models with CCS



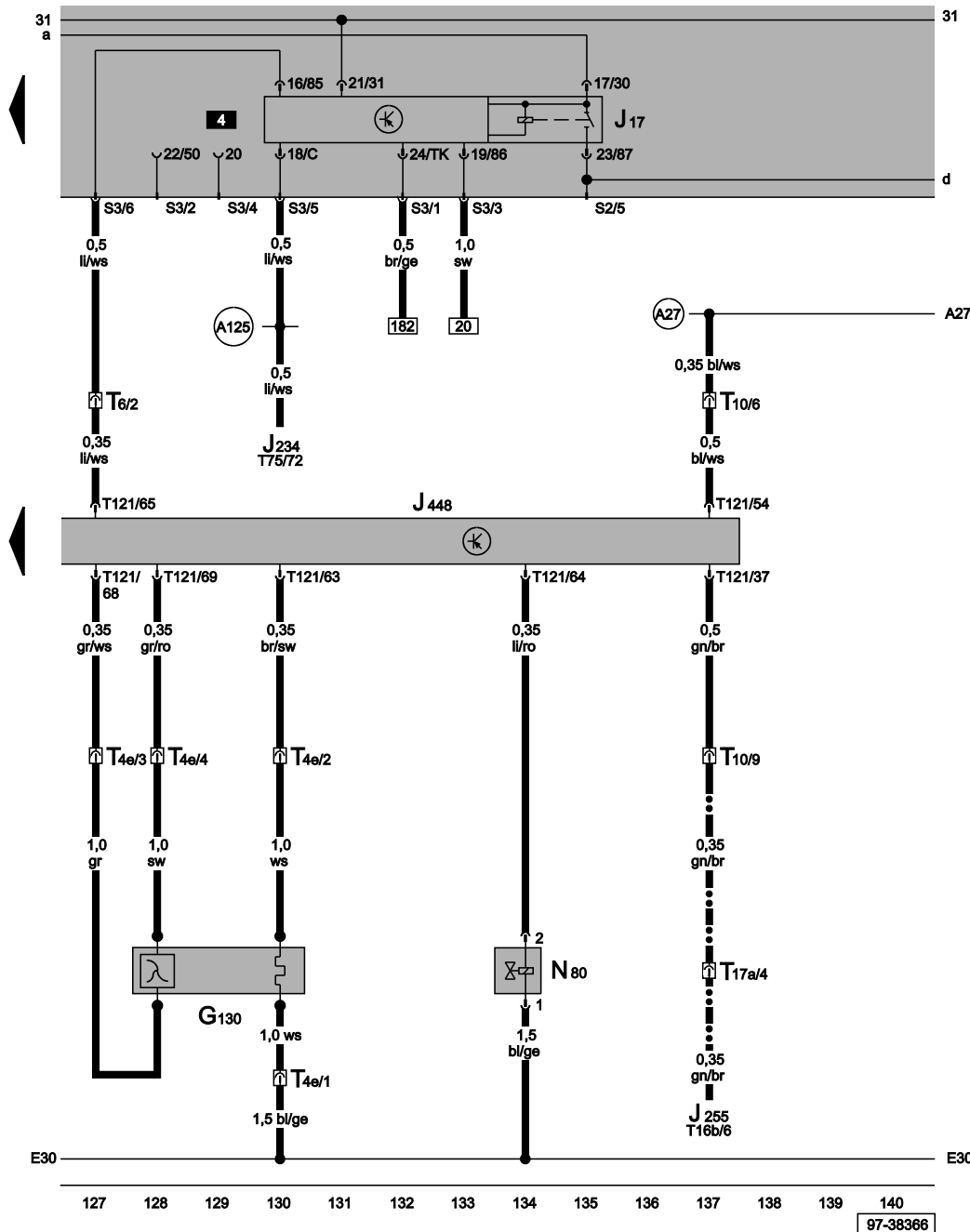
4LV control unit (injection system), fuel pump relay, lambda probe after catalytic converter, active charcoal filter, active charcoal filter solenoid valve

- G130 Lambda probe after catalytic converter
- J17 Fuel pump relay
- J234 Airbag control unit
- J255 Climatronic control unit
- J448 4AV/4CV control unit, injection system, in centre of plenum chamber
- N80 Active charcoal filter system solenoid valve 1
- T4e 4-pin connector, near catalytic converter
- T6 6-pin connector, brown, in protective housing for connectors, on left in plenum chamber
- T10 10-pin connector, orange, in protective housing for connectors on left in plenum chamber
- T16b 16-pin connector
- T17a 17-pin connector, in centre behind dash panel
- T75 75-pin connector
- T121 121-pin connector

A27 Connection (speed signal), in dash panel wiring harness

A125 Connection (crash signal), in dash panel wiring harness

--- Applies only to models fitted with Climatronic



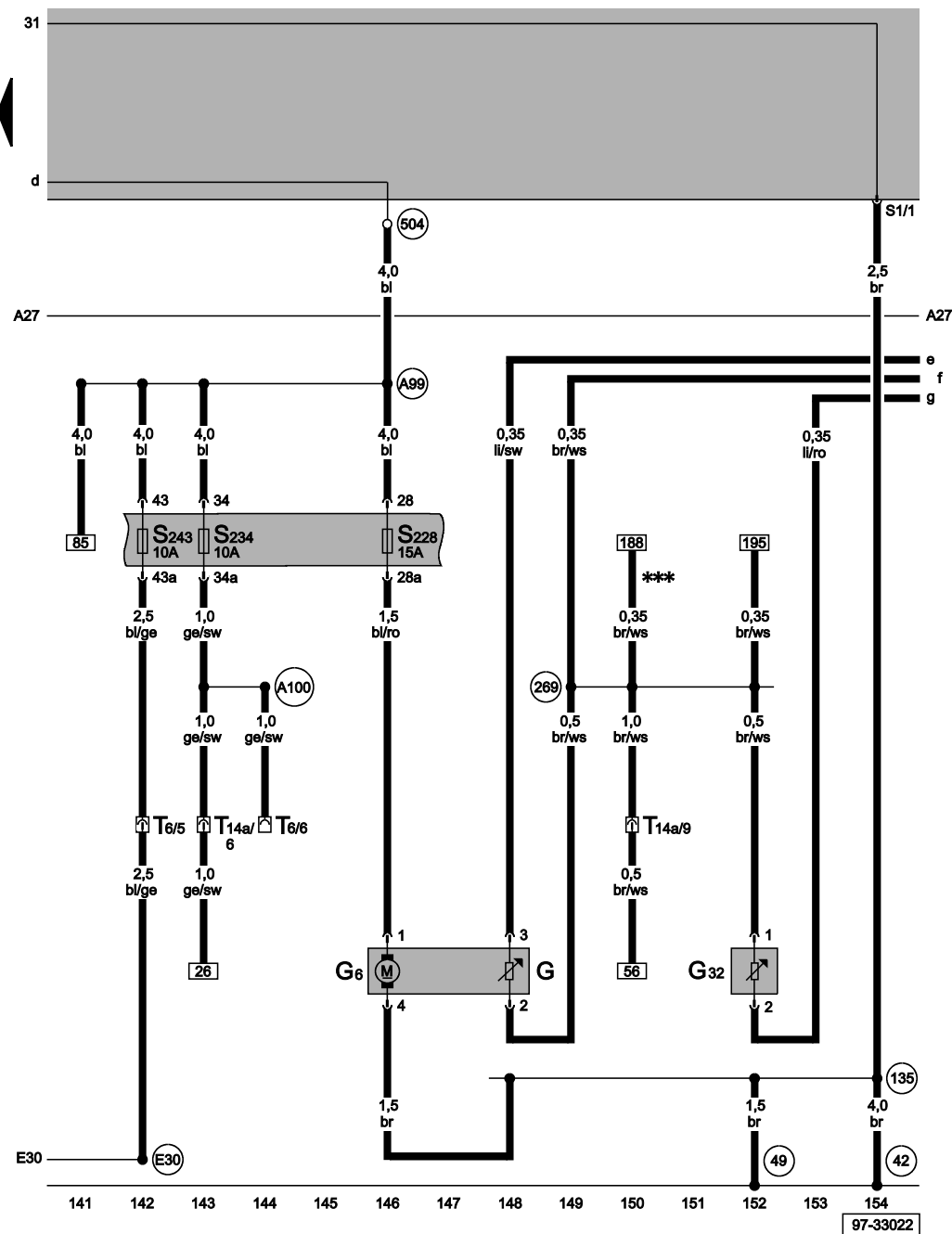
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Fuel pump, fuel gauge sender, coolant shortage indicator sender

- G Fuel gauge sender
- G6 Fuel pump
- G32 Coolant shortage indicator sender
- S228 Fuse 28 in fuse box
- S234 Fuse in fuse box
- S243 Fuse 43 in fuse box
- T6 6-pin connector, brown, in protective housing for connectors, on left in plenum chamber
- T14a 14-pin connector, near battery

- 42 Earth point, next to steering column
- 49 Earth point, next to steering column
- 135 Earth connection -2-, in dash panel wiring harness
- 269 Earth connection (sender earth) -1-, in dash panel wiring harness
- 504 Screw connection -1- (87F), on relay plate
- A99 Connection -1- (87), in dash panel wiring harness
- A100 Connection -2- (87), in dash panel wiring harness
- E30 Connection (87a), in engine wiring harness
- *** Only models without Climatronic

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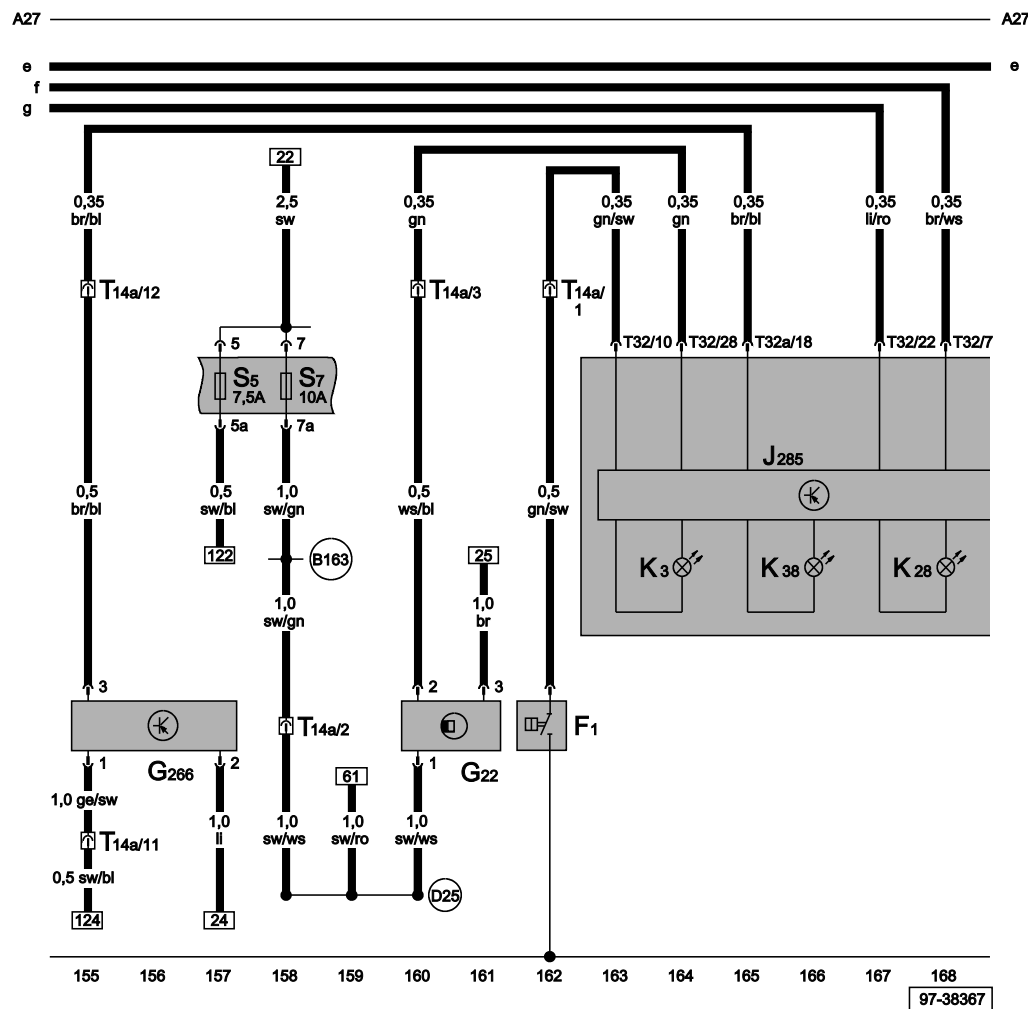
Dash panel insert, oil pressure warning, oil level and oil temperature warning, speedometer sender, coolant temperature and coolant shortage warning lamp

- F1 Oil pressure switch
- G22 Speedometer sender, on gearbox
- G266 Oil level and oil temperature sender*
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K38 Oil level warning lamp*
- S5 Fuse 5 in fuse holder
- S7 Fuse 7 in fuse holder
- T14a 14-pin connector, in cable channel on left in engine compartment
- T32 32-pin connector, blue
- T32a 32-pin connector, green

B163 Positive connection 1 (15), in interior wiring harness

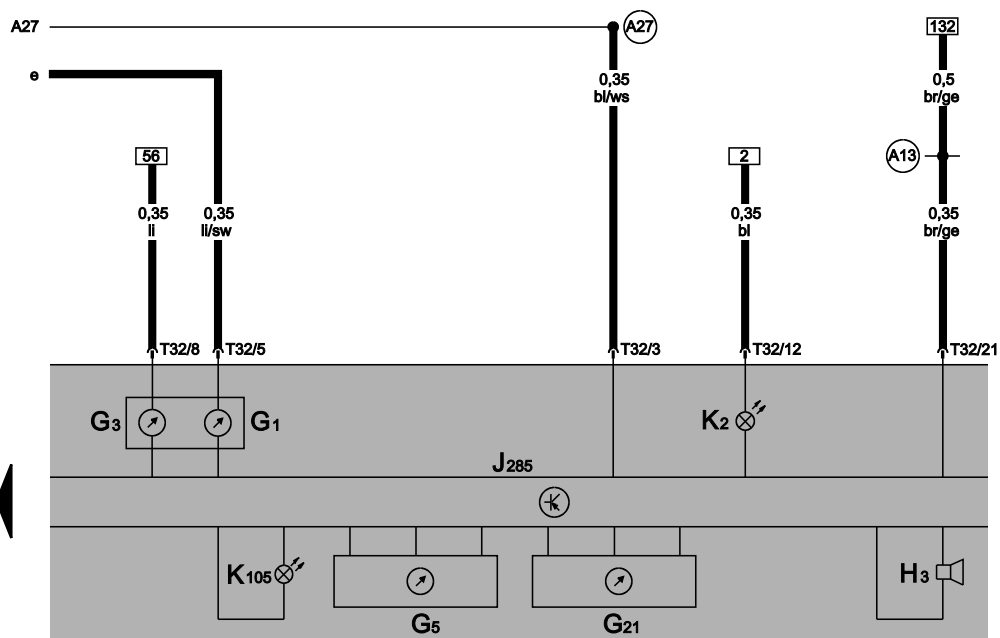
D25 Positive connection (15), in engine pre-wiring harness

* Applies only with flexible service interval display



Dash panel insert, coolant temperature and coolant shortage indicator, fuel gauge, rev. counter, speedometer, alternator warning lamp

- G1 Fuel gauge
- G3 Coolant temperature gauge
- G5 Rev. counter
- G21 Speedometer
- H3 Warning buzzer
- J285 Control unit with display in dash panel insert
- K2 Alternator warning lamp
- K105 Reserve fuel warning lamp
- T32 32-pin connector, blue
- A13 Connection (door contact switch), in dash panel wiring harness
- A27 Connection (speed signal), in dash panel wiring harness



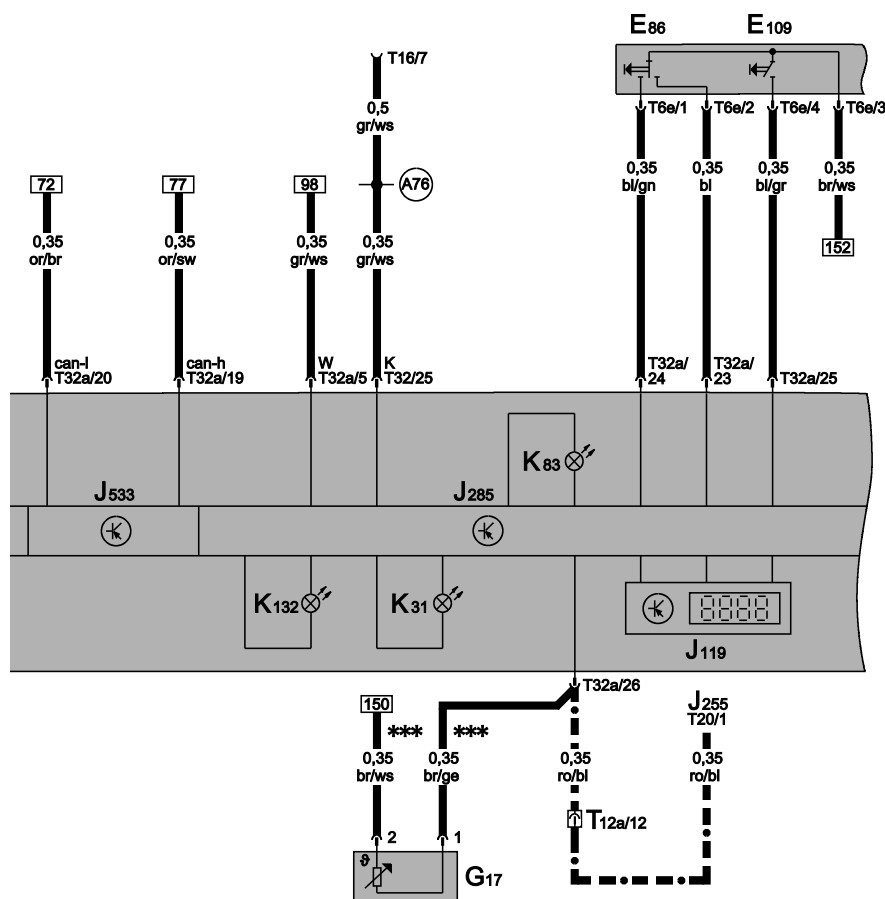
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Dash panel insert, electrically operated throttle fault lamp, CCS warning lamp, multi-function display, ambient temperature display, exhaust emissions warning lamp, diagnostic socket

- E86 Multi-function display call-up button
- E109 Multi-function display, memory switch
- G17 Ambient temperature sensor
- J119 Multi-function display
- J255 Climatronic control unit
- J285 Control unit with display in dash panel insert
- J533 Data bus diagnostic interface, in dash panel insert
- K31 Cruise control system warning lamp
- K83 Exhaust emissions warning lamp
- K132 Electronic power control fault lamp
- T6e 6-pin connector
- T12a 12-pin connector, behind dash panel, centre
- T16 16-pin connector, in dash panel centre, self-diagnosis connection
- T20 20-pin connector
- T32 32-pin connector, blue
- T32a 32-pin connector, green

A76 Connection (diagnosis wire K), in dash panel wiring harness

- *** Only models without Climatronic
- .- Only models with Climatronic



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