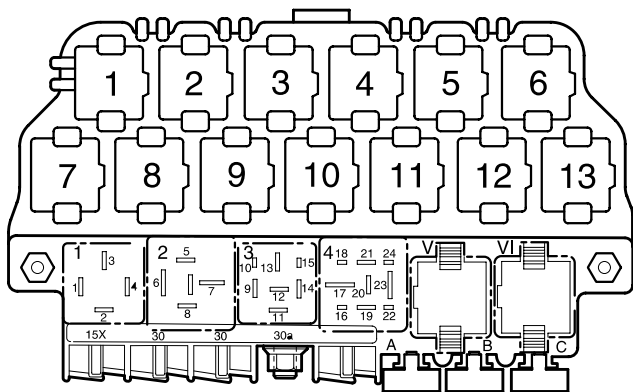


2.3 ltr./110 kW Motronic, engine code AGZ,

from August 1998

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



97-14163

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

Relay locations on relay plate:

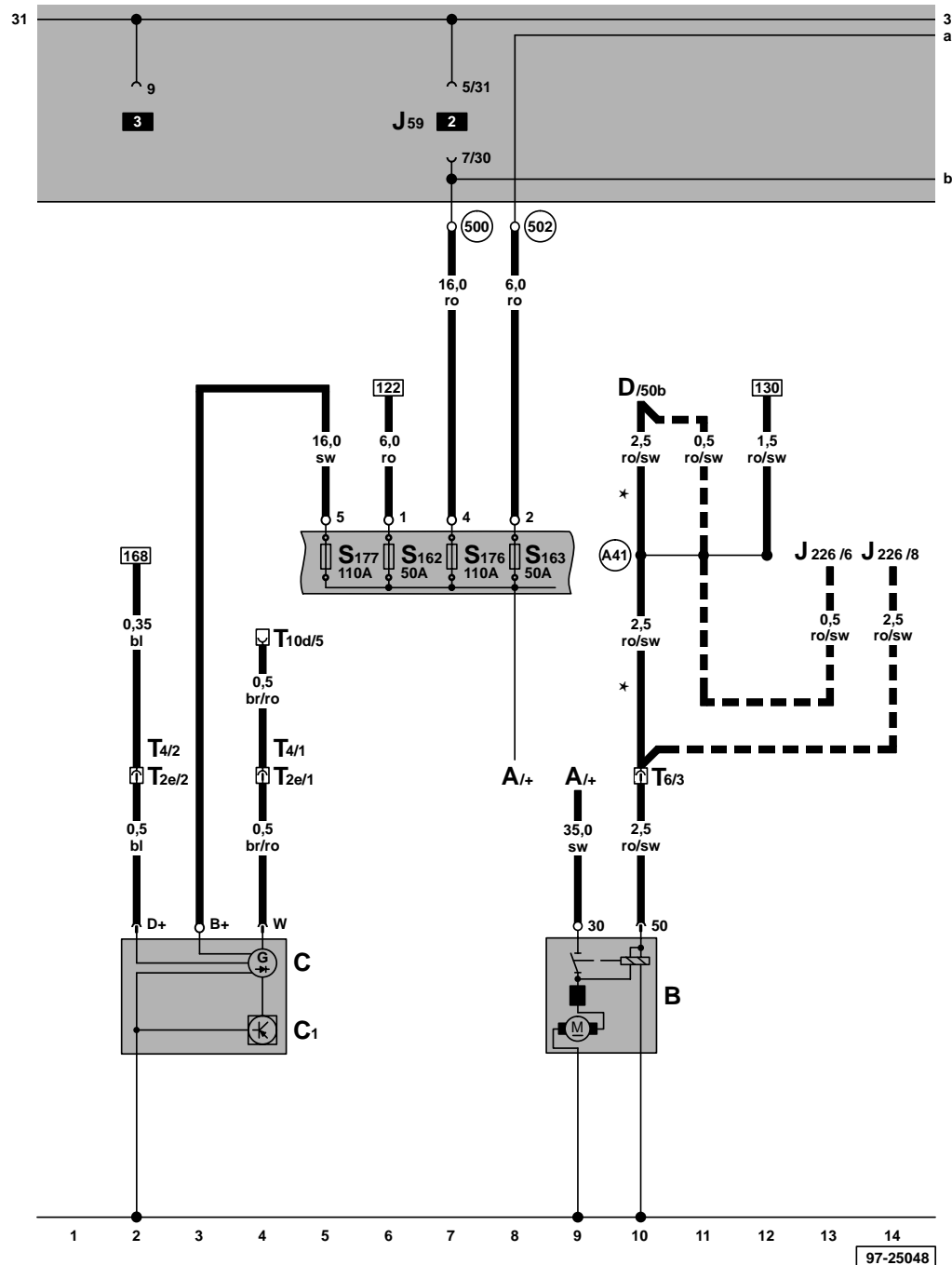
- 2** X contact relief relay (18)
- 4** Fuel pump relay (409)

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

Note:

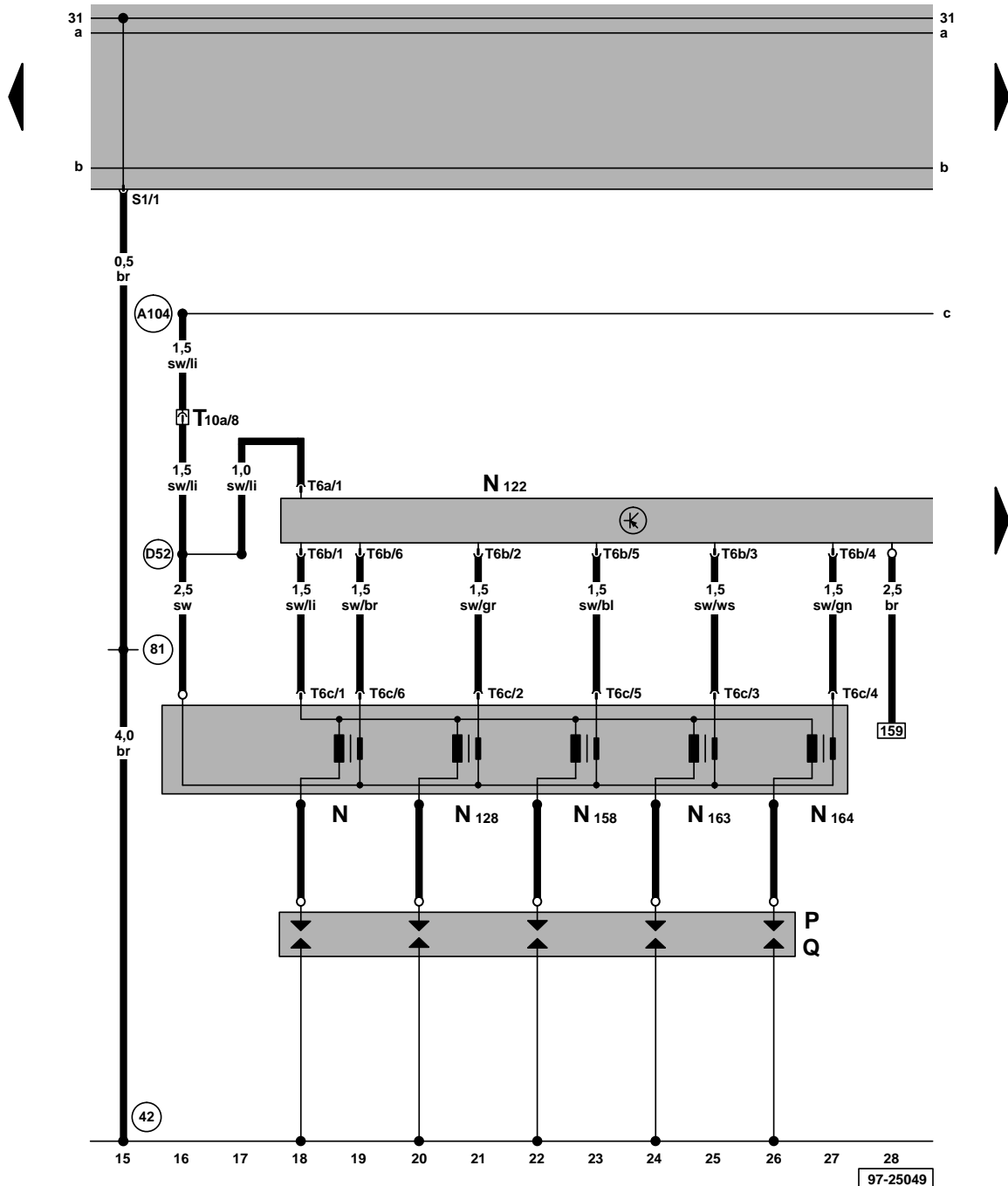
The number in brackets behind the part designation denotes the control number on the housing.



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, on 13 position additional relay carrier
- S162 - Fuse -1- (30) in battery fuse holder
- S163 - Fuse -2- (30) in battery fuse holder
- S176 - Fuse -4- (30) in battery fuse holder
- S177 - Fuse -5- (30) in battery fuse holder
- T2e - 2-pin connector, near starter (on vehicles not fitted with air conditioner)
- T4 - 4-pin connector, near starter (on vehicles fitted with air conditioner)
- T6 - 6-pin connector, brown, in protective housing for connectors, left in plenum chamber
- T10d - 10-pin connector, green, in protective housing for connectors, left in plenum chamber
- (500) - Screw connection -1- (30), on relay plate
- (502) - Screw connection -1- (30a), on relay plate
- (A41) - Positive (+) connection (50), in dash panel wiring harness
- * - For vehicles with manual gearbox only
- - For vehicles with automatic gearbox only

ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow



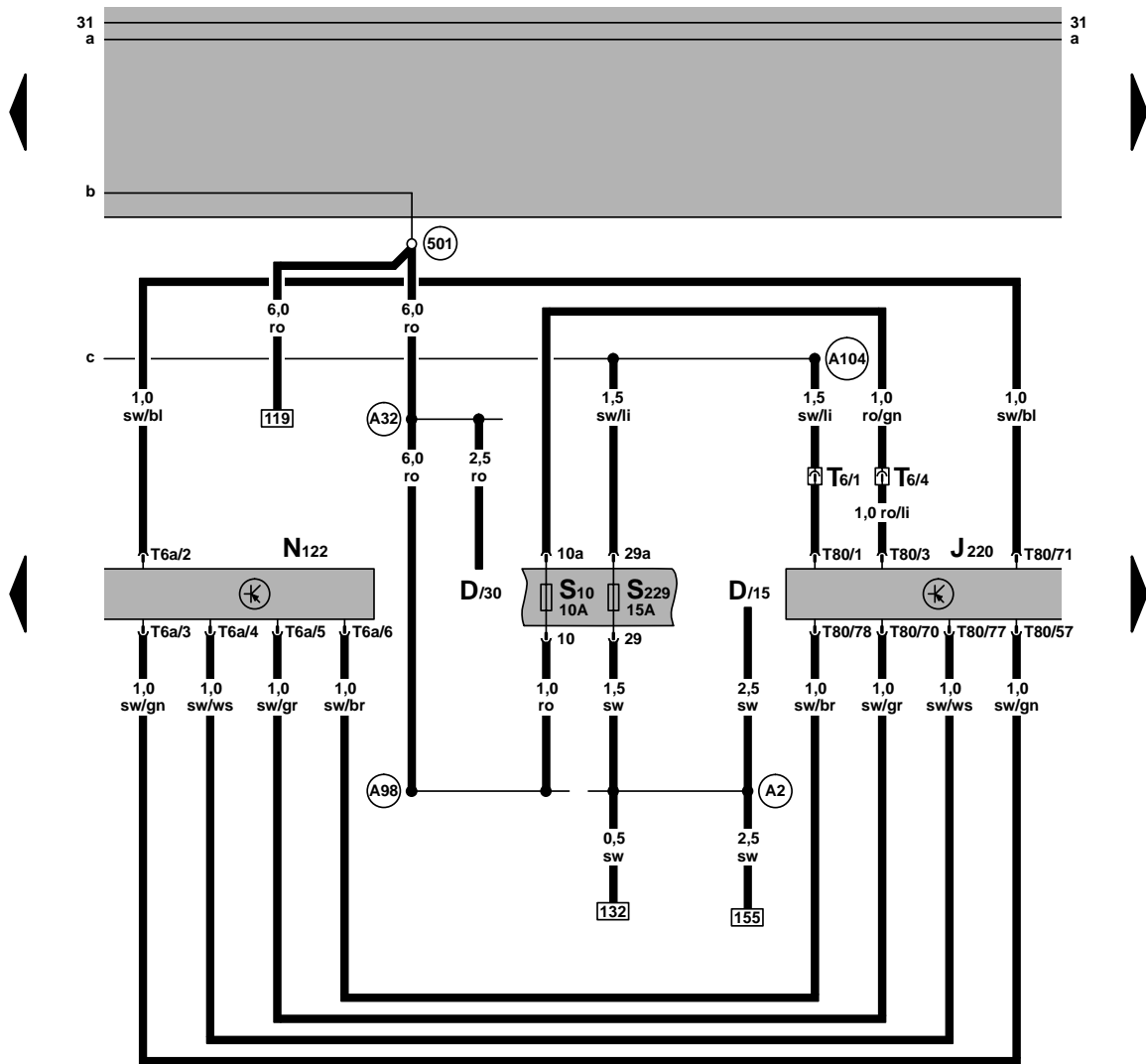
Ignition system

- N - Ignition coil 1, on cylinder head
- N122- Final output stage, rear of engine compartment
- N128- Ignition coil 2, on cylinder head
- N158- Ignition coil 3, on cylinder head
- N163- Ignition coil 4, on cylinder head
- N164- Ignition coil 5, left on cylinder head
- P - Spark plug connector
- Q - Flame plug
- T6a - 6-pin connector
- T16b - 6-pin connector
- T6c - 6-pin connector
- T10a - 10-pin connector, in cable channel left in engine compartment

- (42) - Earth point, next to steering column
- (81) - Earth connection -1-, in dash panel wiring harness
- (A104) - Positive connection -2- (15), in dash panel wiring harness
- (D52) - Positive connection (15a), in engine compartment wiring harness

ws = white
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 ge = yellow

Motronic control unit, ignition system



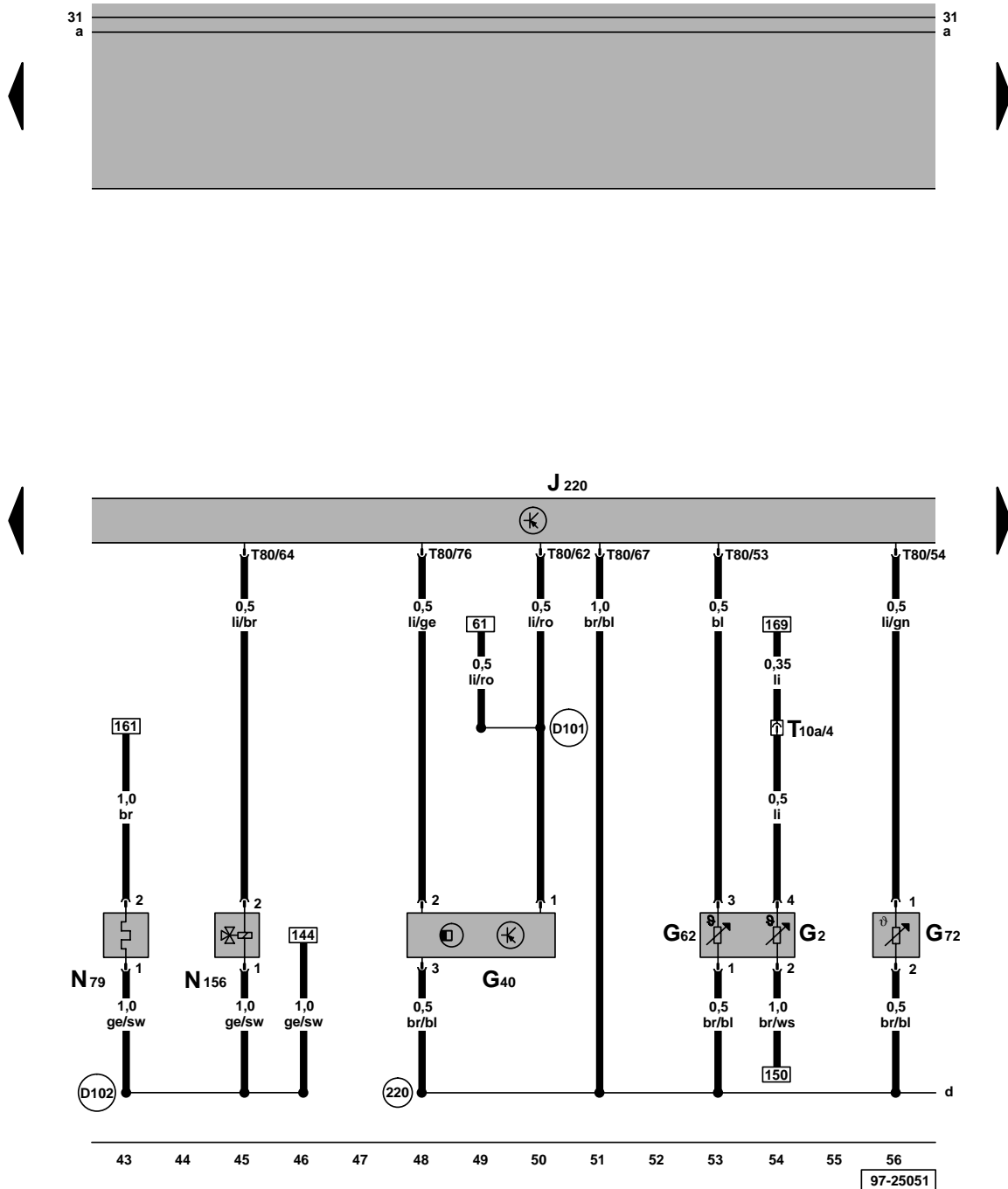
- D - Ignition/starter switch
- J220 - Motronic control unit, centre in plenum chamber
- N122 - Final output stage, rear of engine compartment
- S10 - Fuse in relay plate fuse box
- S229 - Fuse in fuse holder
- T6 - 6-pin connector, brown, in protective housing for connectors, left in plenum chamber
- T6a - 6-pin connector
- T80 - 80-pin connector
- (501) - Screw connection -2- (30), on relay plate
- (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

ws = white
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 li = lilac
 ge = yellow

Motronic control unit, coolant temperature sender, twin path intake manifold change-over valve, Hall sender, intake manifold temperature sender, crankcase breather heater element

- G2 - Coolant temperature sender
- G40 - Hall sender
- G62 - Coolant temperature sender
- G72 - Intake manifold temperature sender
- J220 - Motronic control unit, centre in plenum chamber
- N79 - Heater element (crankcase breather)
- N156 - Intake manifold change-over valve
- T10a - 10-pin connector, in cable channel left in engine compartment
- T80 - 80-pin connector

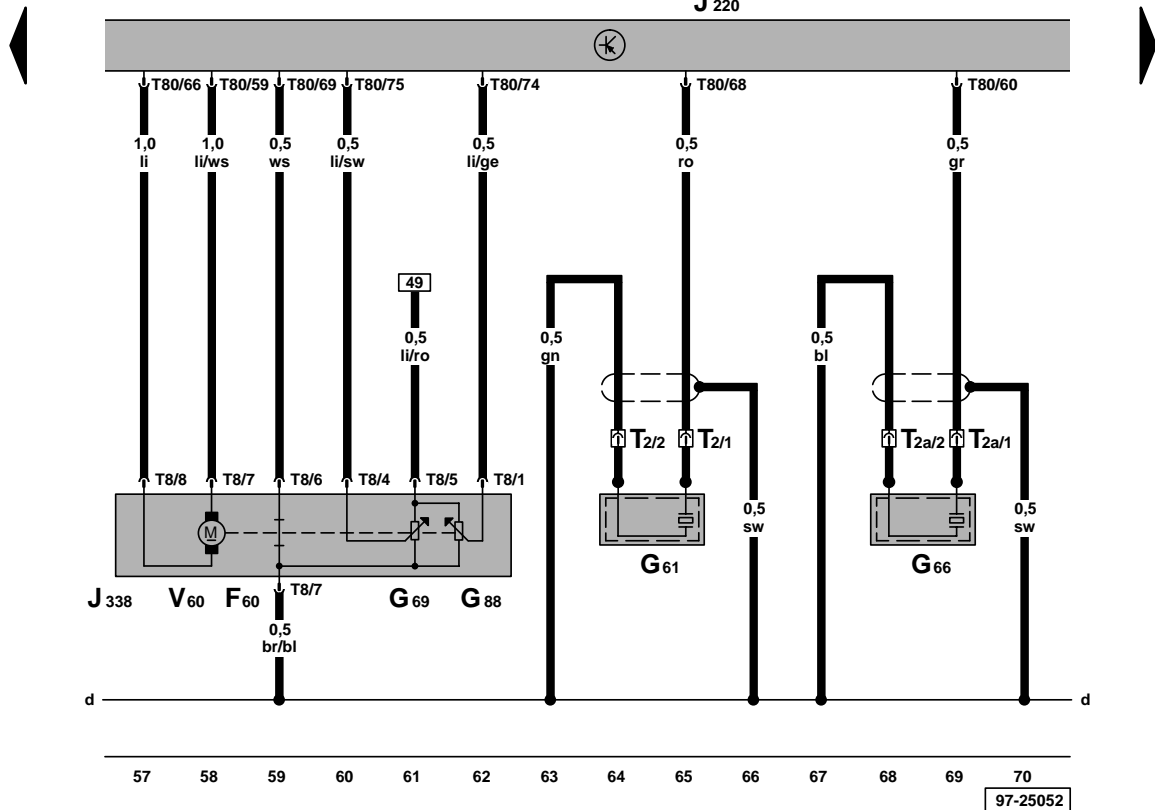
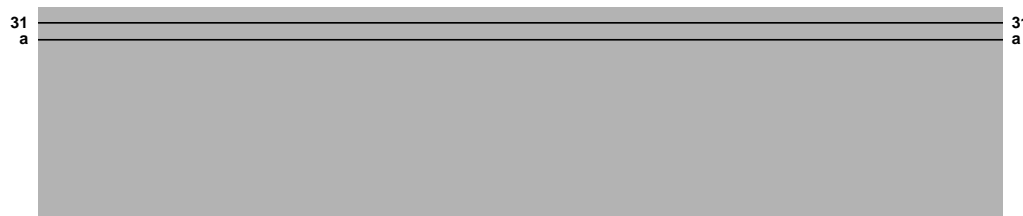
- (220) - Earth connection (sender earth), in engine wiring harness
- (D101) - Connection -1-, in engine compartment wiring harness
- (D101) - Connection -2-, in engine wiring harness



ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

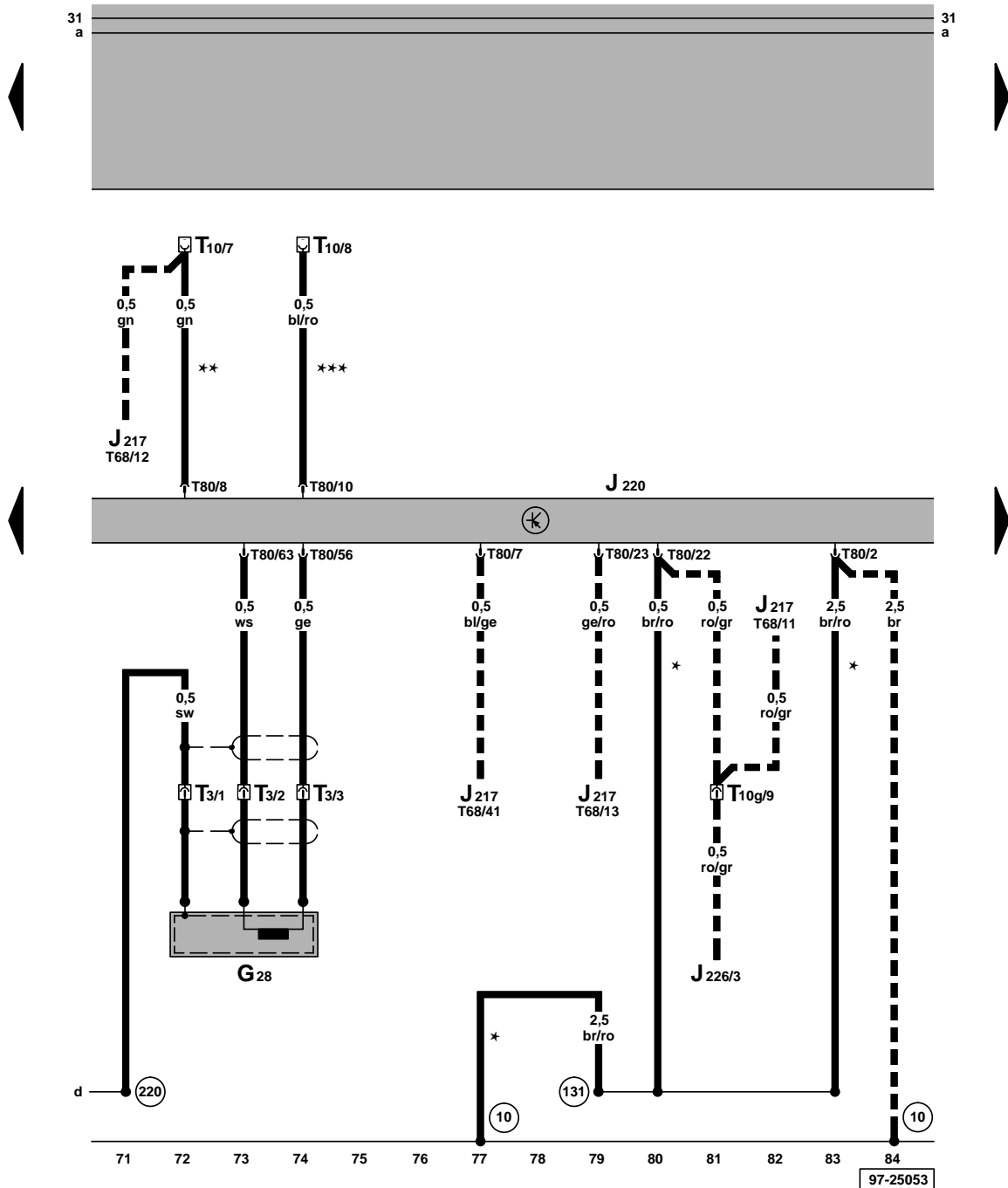
Motronic control unit, throttle valve control part, knock sensor I, knock sensor II

- F60 - Idling switch
- G61 - Knock sensor I
- G66 - Knock sensor II
- G69 - Throttle valve potentiometer
- G88 - Throttle valve positioner potentiometer
- J220 - Motronic control unit, centre in plenum chamber
- J338 - Throttle valve control unit
- T2 - 2-pin connector, rear in engine compartment
- T2a - 2-pin connector, front in engine compartment
- T8 - 8-pin connector
- T80 - 80-pin connector
- V60 - Throttle valve positioner



- ws = white
- sw = black
- ro = red
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- gn = green
- bl = blue
- gr = grey
- li = lilac
- ge = yellow

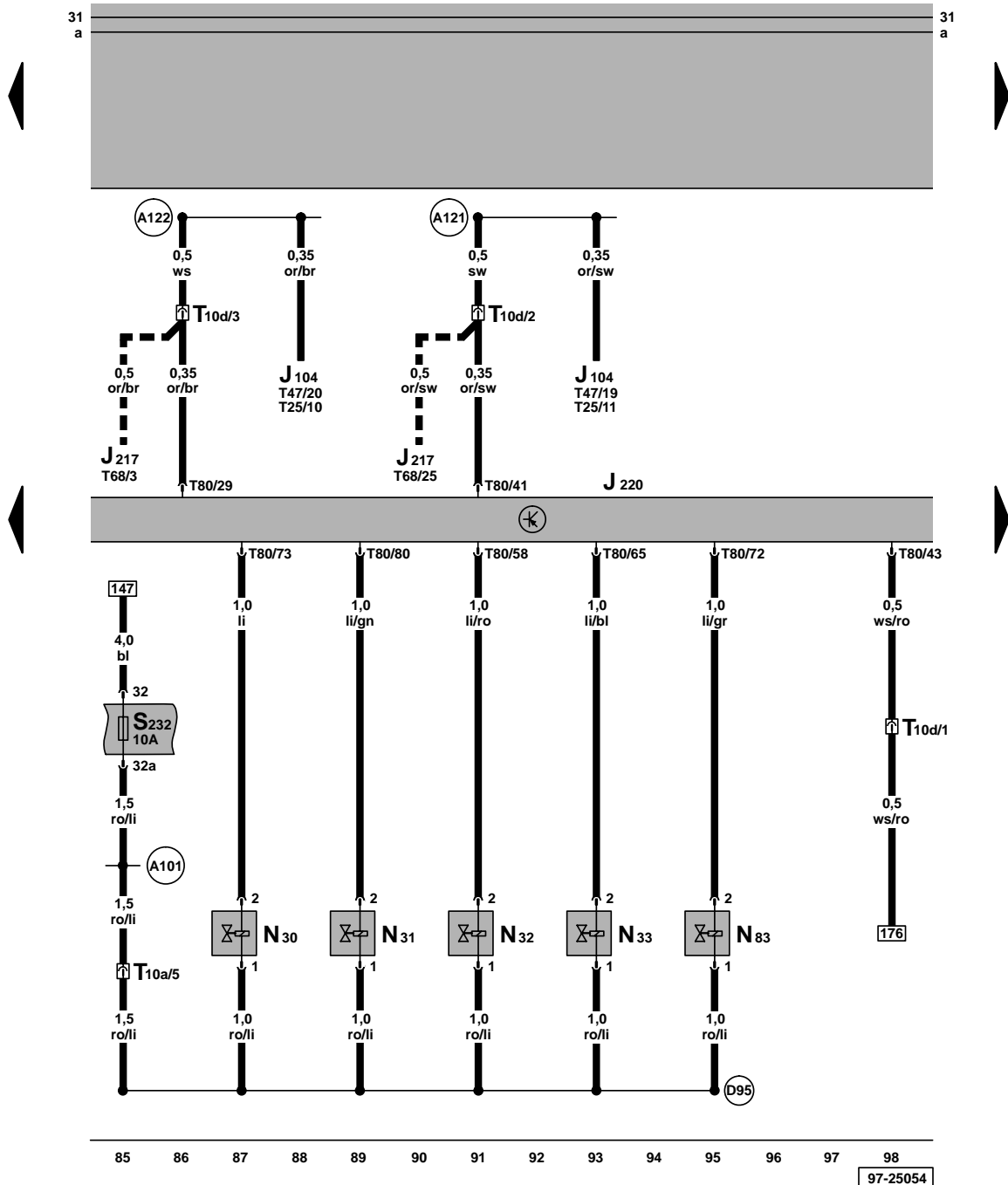
Motronic control unit, engine speed sender



ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

- G28 - Engine speed sender
- J217 - Automatic gearbox control unit, centre in plenum chamber
- J220 - Motronic control unit, centre in plenum chamber
- J226 - Starter inhibitor and reversing light relay, above central electric
- T3 - 3-pin connector, near intake manifold
- T10 - 10-pin connector, orange, in protective housing for connectors, left in plenum chamber
- T10g - 10-pin connector, grey, in protective housing for connectors, in plenum chamber, left
- T68 - 68-pin connector
- T80 - 80-pin connector
- (10) - Earth point, in plenum chamber
- (131) - Earth connection -2-, in engine compartment wiring harness
- (220) - Earth connection (sender earth), in engine wiring harness
- * - For vehicles with manual gearbox only
- ** - Compressor switch-off
- *** - Connection compressor readiness
- - For vehicles with automatic gearbox only

Motronic control unit, injectors



- J104 - ABS/ABS with EDL control unit
- J217 - Automatic gearbox control unit
- J220 - Motronic control unit, centre in plenum chamber
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- N83 - Injector, cylinder 5
- S232 - Fuse in fuse holder
- T10a - 10-pin connector, in cable channel left in engine compartment
- T10d - 10-pin connector, green, in protective housing for connectors, left in plenum chamber
- T25 - 25-pin connector, on control unit for ABS/ABS with EDL
- T47 - 47-pin connector, control unit for ABS with EDL/TCS/ESP
- T68 - 68-pin connector
- T80 - 80-pin connector

- (A101) - Connection -3- (87), in dash panel wiring harness
- (A121) - Connection (high bus), in dash panel wiring harness
- (A122) - Connection (low bus), in dash panel wiring harness
- (D95) - Connection (injectors), in engine compartment wiring harness

--- For vehicles with automatic gearbox only

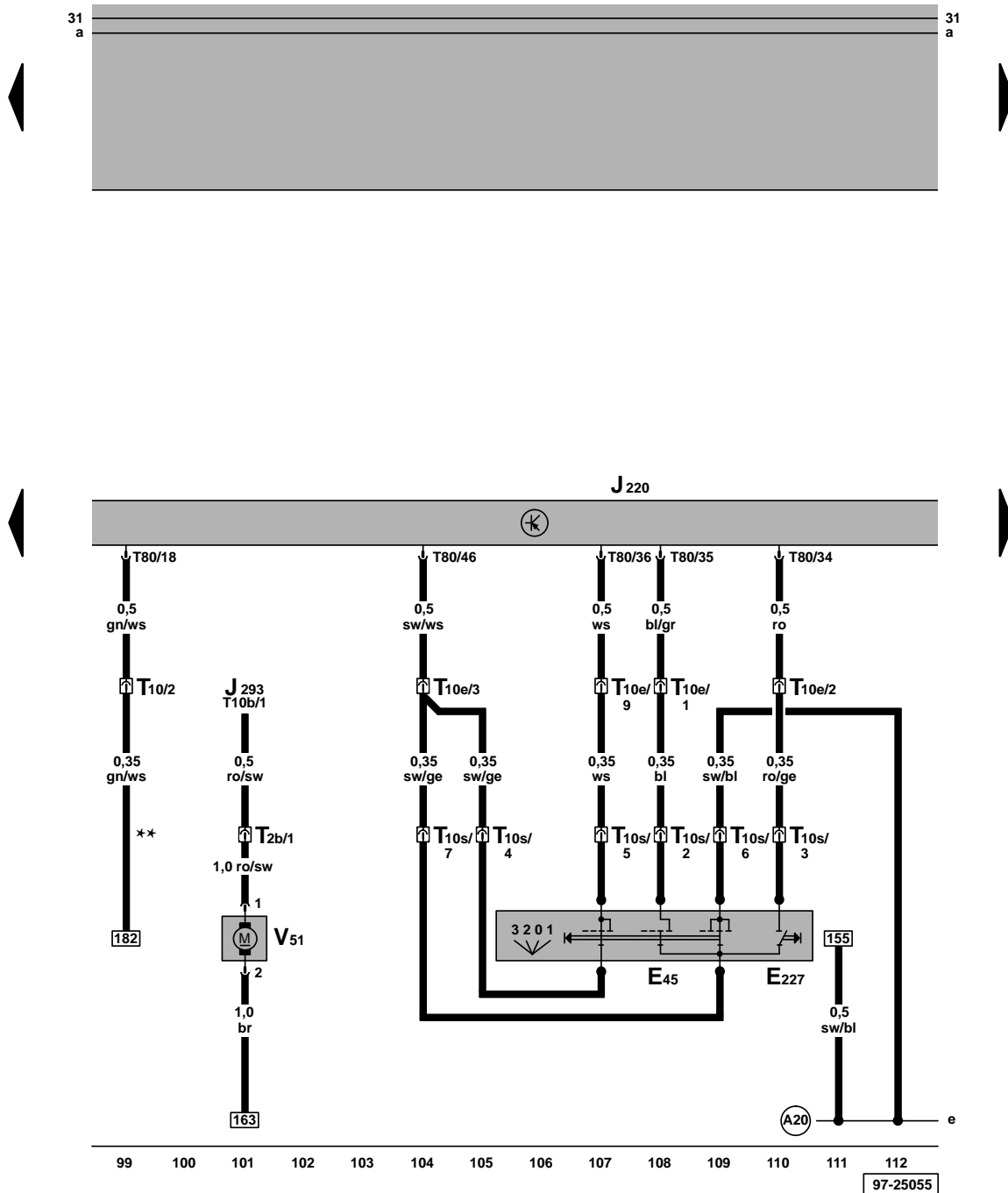
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

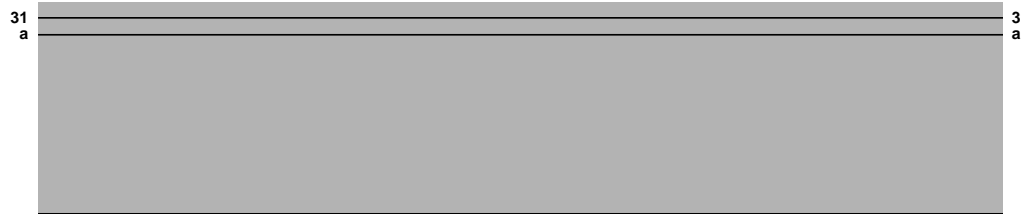
Motronic control unit, cruise control system (CCS) switch, coolant continued circulation pump

- E45 - Cruise control system switch
- E227 - Cruise control system (CCS) button (Set)
- J220 - Motronic control unit, centre in plenum chamber
- J293 - Radiator fan control unit
- T2b - 2-pin connector, in engine compartment cable channel, left
- T10 - 10-pin connector, orange, in protective housing for connectors, left in plenum chamber
- T10b - 10-pin connector
- T10e - 10-pin connector, black, in protective housing for connectors, left in plenum chamber
- T10s - 10-pin connector, next to steering column
- T80 - 80-pin connector
- V51 - Continued coolant circulation pump

(A20) - Connection (15a), in dash panel wiring harness

** - Fuel consumption signal from engine control unit, for MFI only





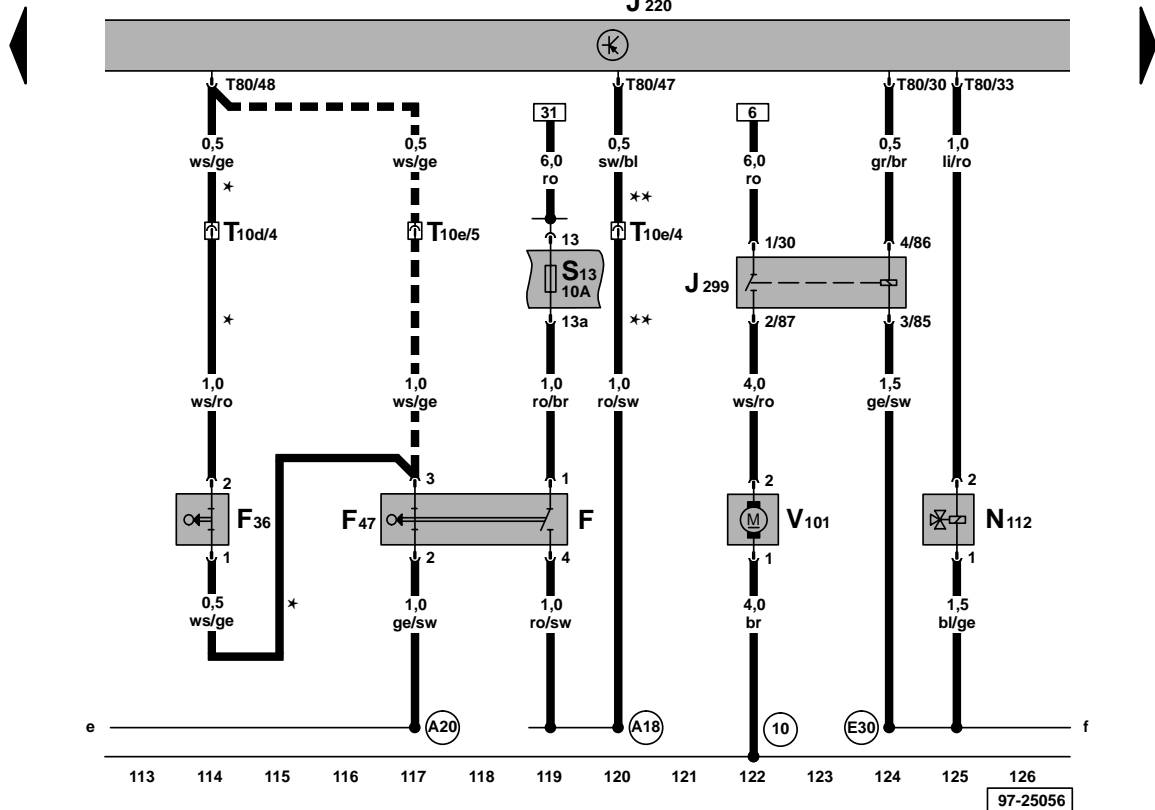
Motronic control unit, secondary air pump motor, secondary air inlet system valve, clutch pedal switch, brake pedal switch for CCS, brake light switch

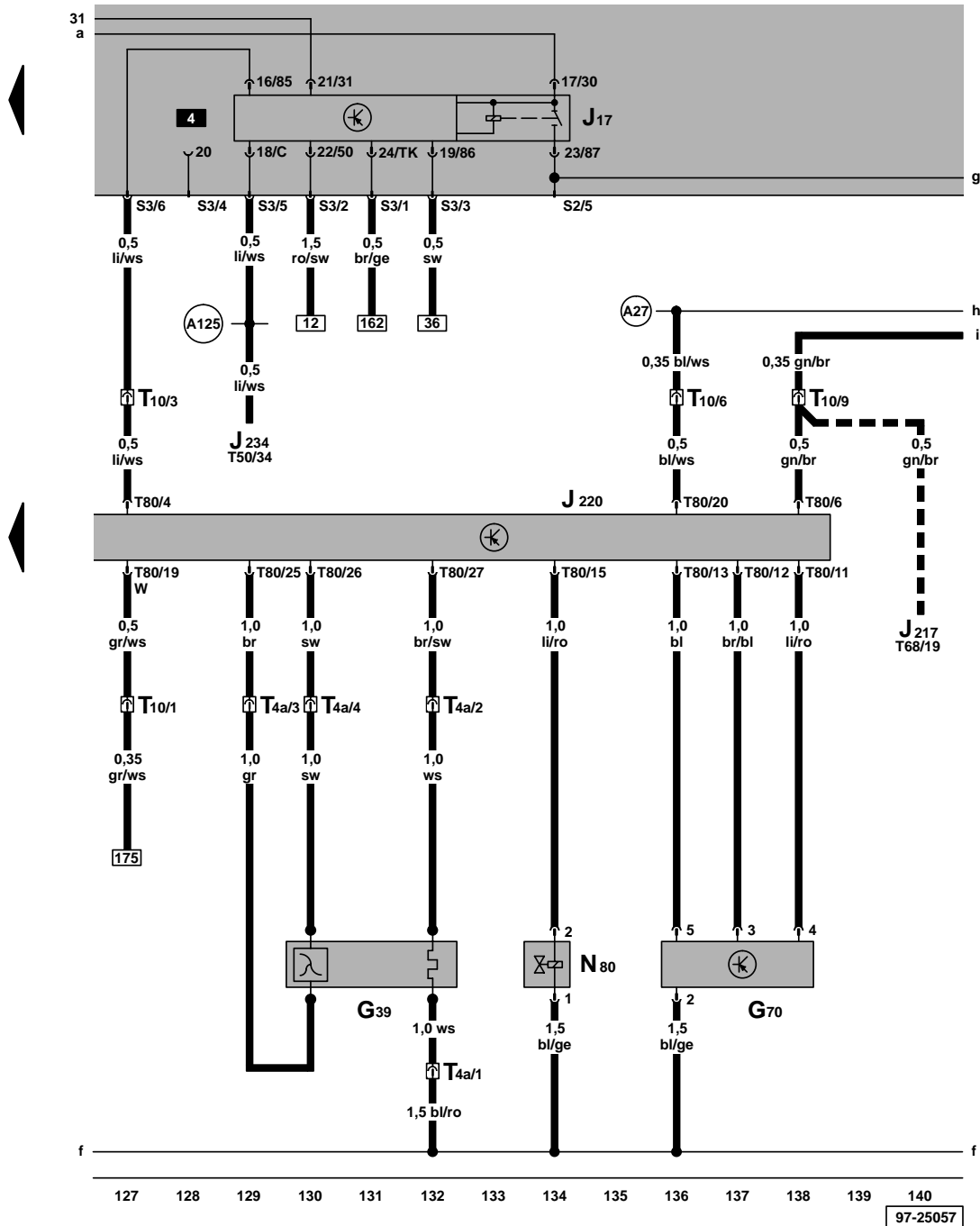
- F – Brake light switch
- F36 – Clutch pedal switch
- F47 – Cruise cont. sys. brake pedal switch
- J220 – Motronic control unit, centre in plenum chamber
- J299 – Secondary air pump relay, in protective housing, left in engine compartment (control number 100)
- N112 – Secondary air inlet valve
- S13 – Fuse in relay plate fuse box
- T10d – 10-pin connector, green, in protective housing for connectors, left in plenum chamber
- T10e – 10-pin connector, black, in protective housing for connectors, left in plenum chamber
- T80 – 80-pin connector
- V101 – Secondary air pump motor

- (10) – Earth point, in plenum chamber
- (A18) – Connection (54), in dash panel wiring harness
- (A20) – Connection (15a), in dash panel wiring harness
- (E30) – Connection (87a), in engine wiring harness

- * – For vehicles with manual gearbox only
- – For vehicles with automatic gearbox only
- ** – For vehicles with CCS only

ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow





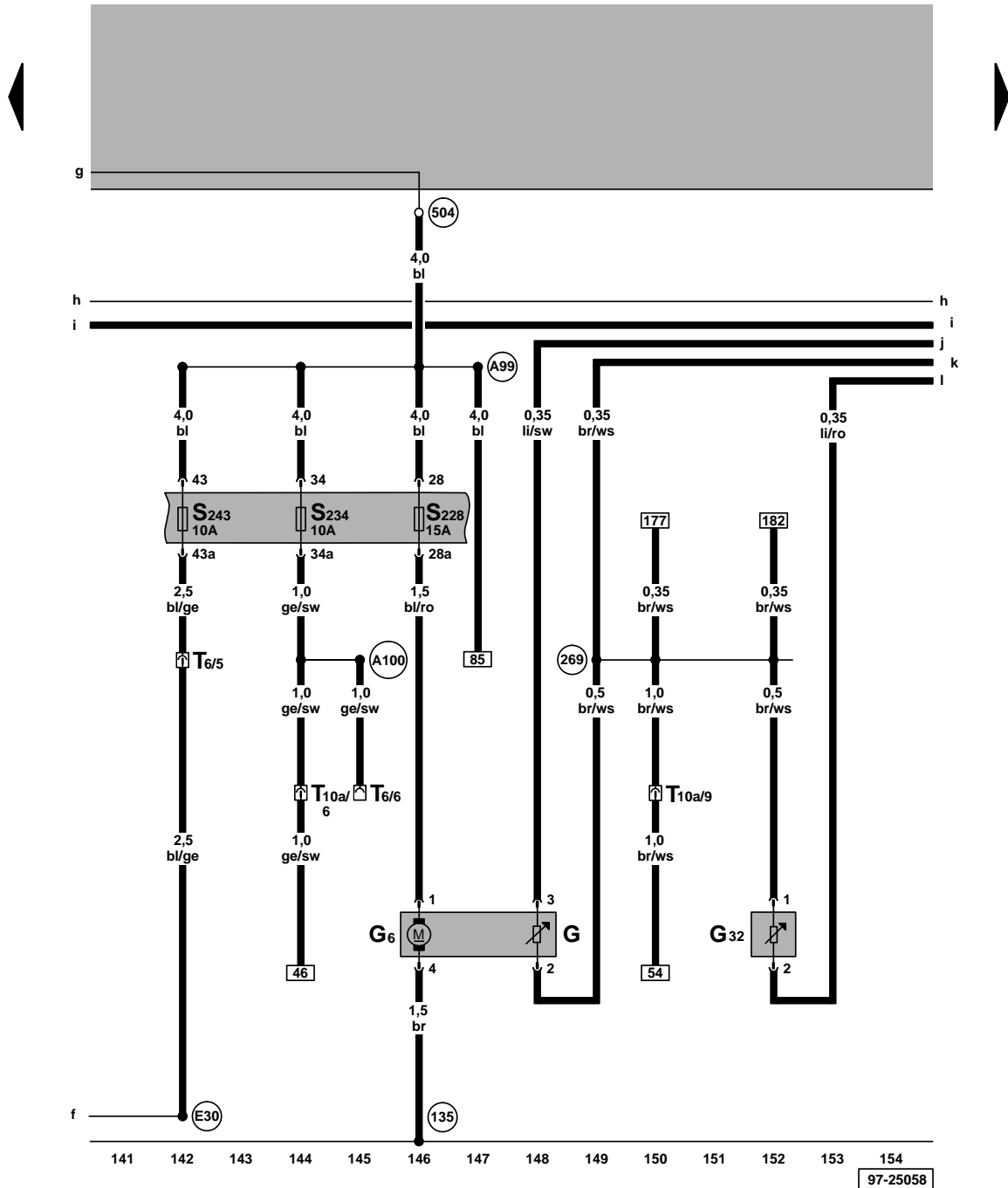
Motronic control unit, Lambda probe, air mass meter, activated charcoal filter system solenoid valve, fuel pump relay

- G39 - Lambda probe
- G70 - Air mass meter
- J17 - Fuel pump relay
- J217 - Automatic gearbox control unit, centre in plenum chamber
- J220 - Motronic control unit, centre in plenum chamber
- J234 - Airbag control unit, down behind console
- N80 - Activated charcoal filter system solenoid valve I
- T4a - 4-pin connector, in protective housing in rear of engine compartment
- T10 - 10-pin connector, orange, in protective housing for connectors, left in plenum chamber
- T50 - 50-pin connector
- T68 - 68-pin connector
- T80 - 80-pin connector
- (A27) - Connection (speed signal), in dash panel wiring harness
- (A125) - Connection (crash signal), in dash panel wiring harness

--- For vehicles with automatic gearbox only

ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

Fuel pump, fuel gauge sender, coolant shortage indicator sender



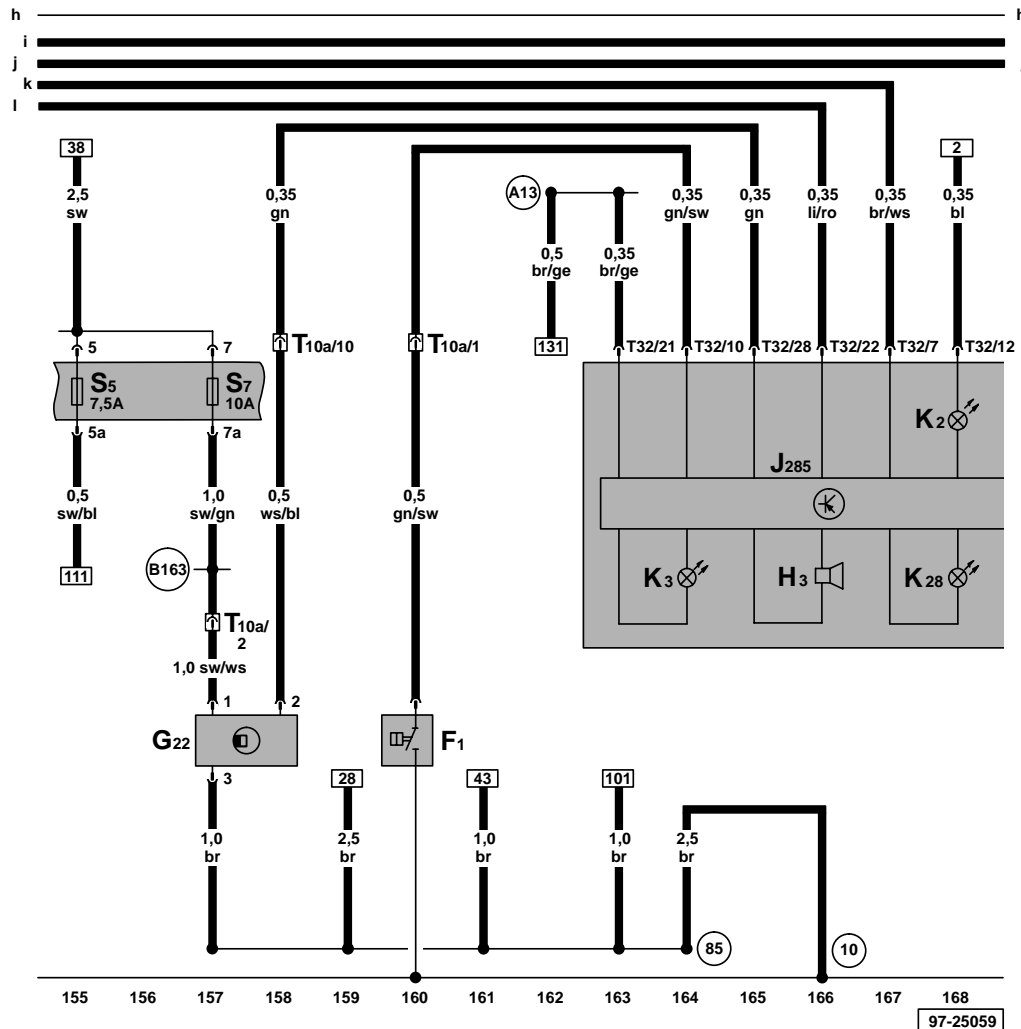
- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- G32 - Coolant shortage indicator sender
- S228 - Fuse in fuse holder
- S234 - Fuse in fuse holder
- S243 - Fuse in fuse holder
- T6 - 6-pin connector, brown, in protective housing for connectors, left in plenum chamber
- T10a - 10-pin connector, in cable channel left in engine compartment
- (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

ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

Dash panel insert, optical and acoustic oil pressure warning, speedometer sender, coolant temperature/coolant shortage warning lamp, alternator warning lamp

- F1 - Oil pressure switch
- G22 - Speedometer sender (Hall sender on gearbox)
- H3 - Buzzer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Warning lamp for coolant temperature/coolant shortage
- S5 - Fuse in relay plate fuse box
- S7 - Fuse in relay plate fuse box
- T10a - 10-pin connector, in cable channel left in engine compartment
- T32 - 32-pin connector, blue

- (10) - Earth point, in plenum chamber
- (85) - Earth connection -1-, in engine compartment wiring harness
- (A13) - Connection (door contact switch), in dash panel wiring harness
- (B163) - Positive connection -1- (15), in interior wiring harness



ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

Dash panel insert, coolant temperature gauge, fuel gauge, rev. counter, speedometer, multi-function indicator, ambient temperature display

- E86 - Multi-function display call-up button
- E109 - Multi-function display, memory switch
- G1 - Fuel gauge sender
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G17 - Ambient temperature sensor
- G21 - Speedometer
- J119 - Multi-function display
- J285 - Control unit with display in dash panel insert
- K105 - Reserve fuel warning lamp
- T6e - 6-pin connector
- T12a - 12-pin connector, connection for Climatronic only
- T16 - 16-pin connector, in centre of dash panel, self-diagnosis connection
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green

- (A27) - Connection (speed signal), in dash panel wiring harness
- (A76) - Connection (diagnosis wire K), in dash panel wiring harness

- * - Engine speed signal from engine control unit
- ** - Fuel consumption signal from engine control unit, for MFI only

ws = white
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 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

