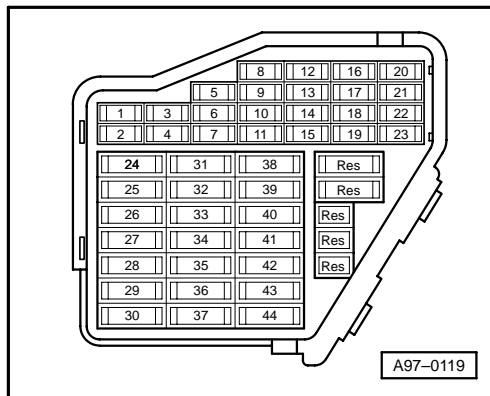


### Air conditioner with automatic control

From model year 2000

#### Fuse box

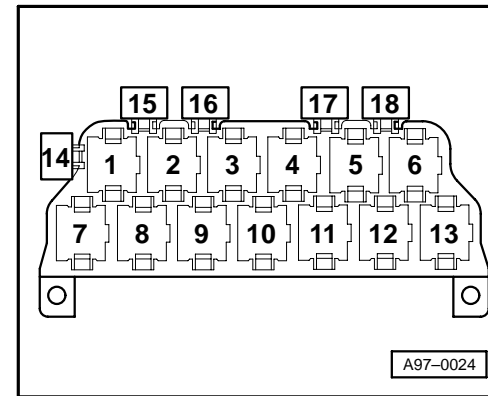


#### Fuse colours:

- 30 A - green
- 25 A - white
- 20 A - yellow
- 15 A - blue
- 10 A - red
- 7.5 A - brown
- 5 A - beige

From fuse number 23 upwards the fuses in the fuse box are designated as 223 etc. in the Current Flow Diagram.

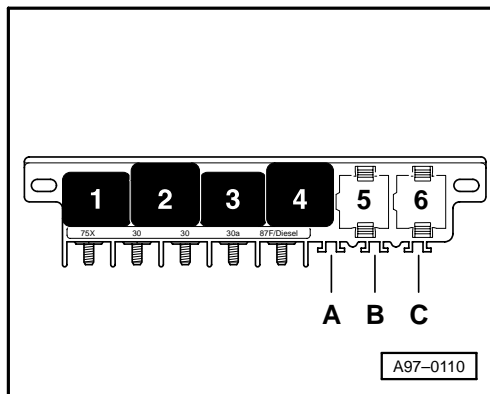
#### 13-point relay carrier



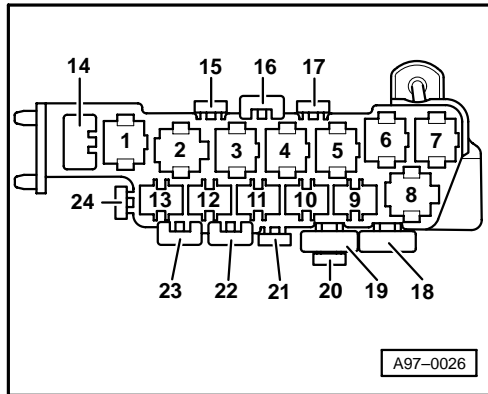
#### Position of relays:

- 3** - Solar cell isolation relay (J309)
- 5** - Magnetic coupling relay (J44)

#### Micro-central electrics

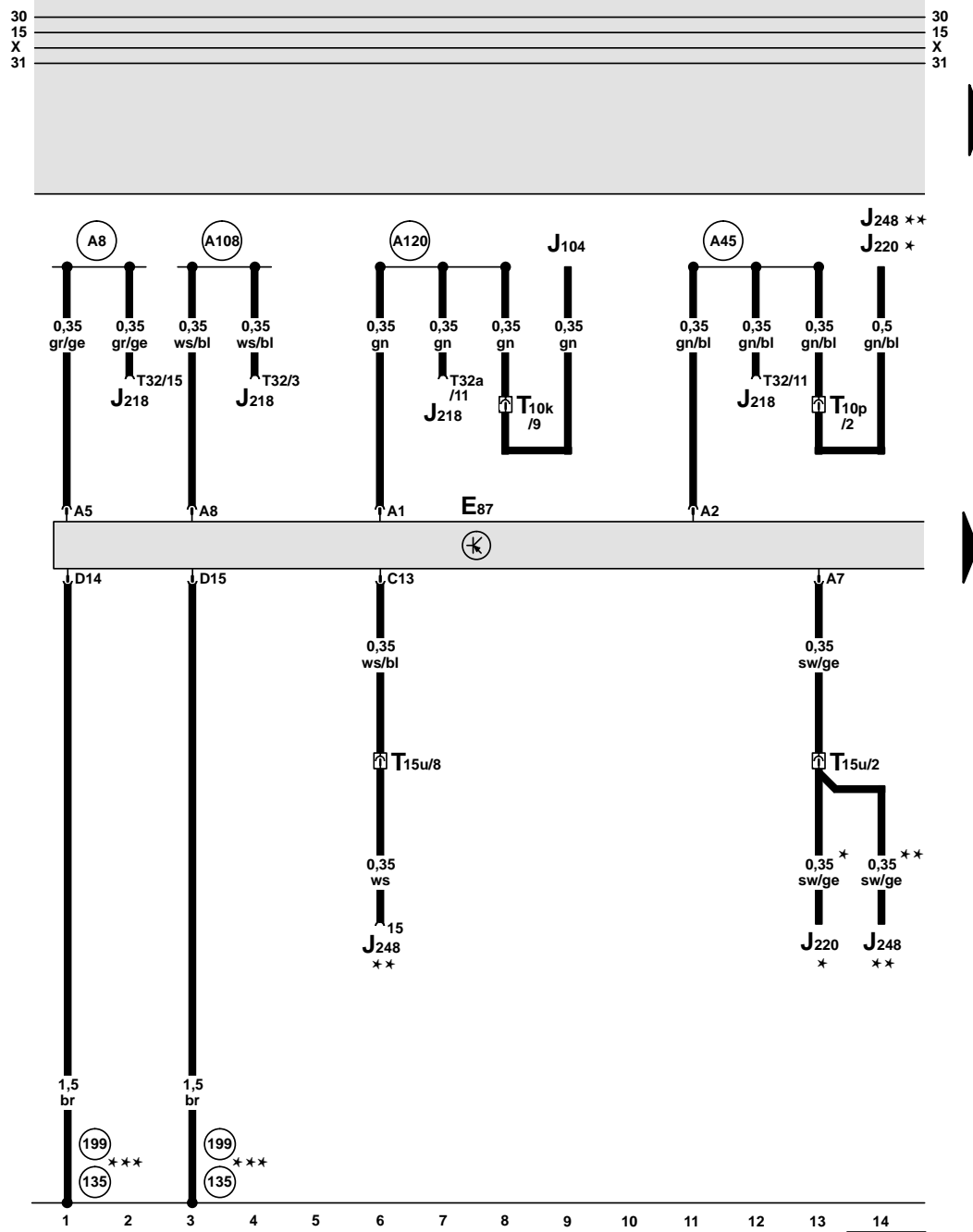


## 8-point relay carrier



## Position of relays:

- 1** - Radiator fan run-on relay (J138)
- 2** - Radiator fan 2nd speed relay (J101)
- 3** - Radiator fan relay (J26)
- 20** - Radiator fan single fuse (S42)
- 21** - Radiator fan control unit fuse (S142)



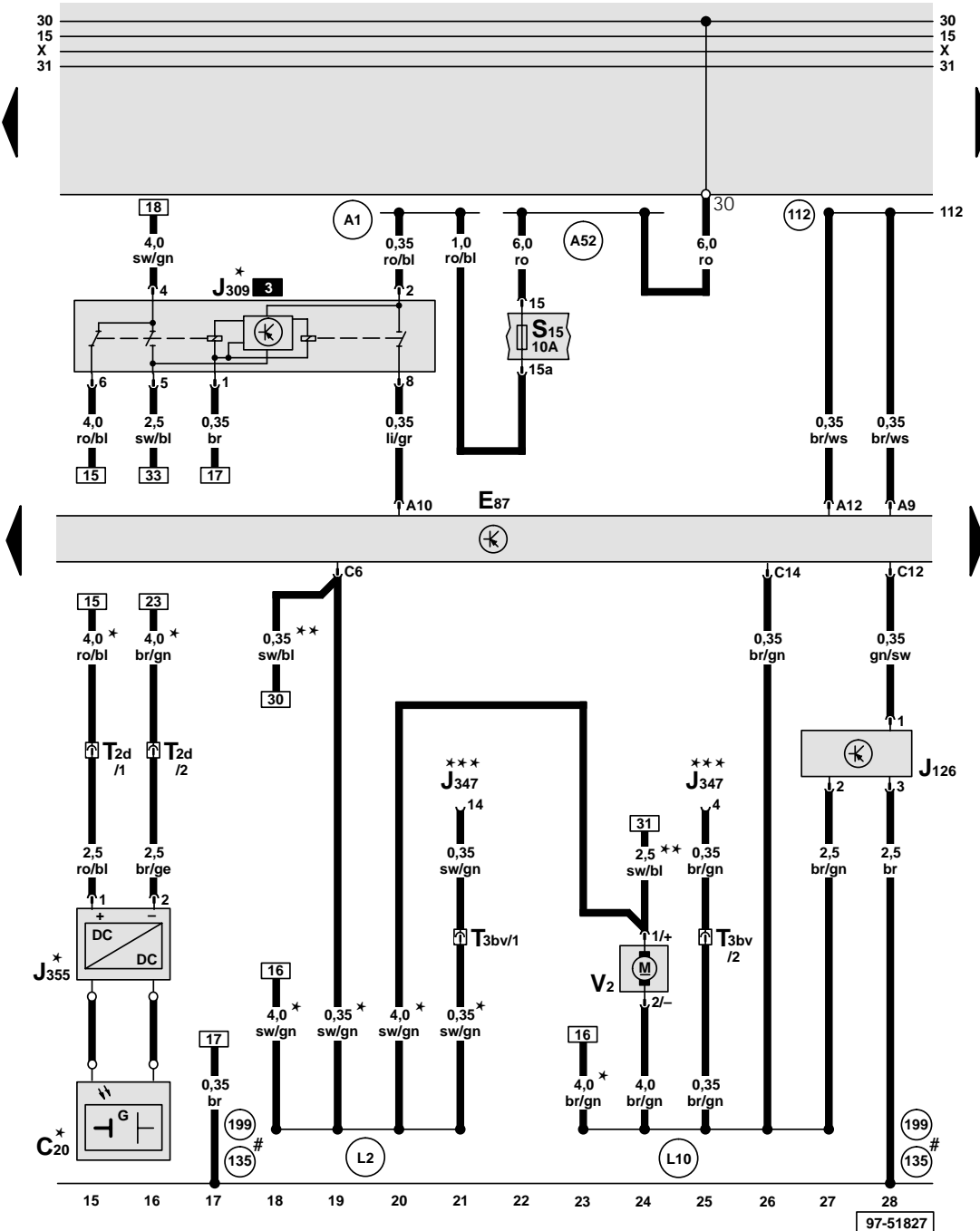
Control and display unit for air conditioner

- E87 - Control and display unit for air conditioner
- J104 - ABS with EDL control unit
- J218 - Combi-processor in dash panel insert
- J220 - Motronic control unit
- J248 - Diesel direct injection system control unit
- T10k - 10-pin connector, orange, connector point, A pillar, left
- T10p - 10-pin connector, black, connector point, electronics box, plenum chamber
- T15u - 15-pin connector, red, connector point, electronics box, plenum chamber
- T32 - 32-pin connector, blue, on dash panel insert
- T32a - 32-pin connector, green, on dash panel insert

- (135) - Earth connection -2-, in dash panel wiring harness
- (199) - Earth connection -3-, in dash panel wiring harness
- (A8) - Positive (+) connection (58d), in dash panel wiring harness (display illumination)
- (A45) - Connection (engine speed signal), in dash panel wiring harness
- (A108) - Connection (speed signal), in dash panel wiring harness
- (A120) - Connection (stationary time), in dash panel wiring harness
- \* - Models with petrol engines
- \*\* - Models with diesel engines
- \*\*\* - Both possible

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

### Vent temperature sender, fresh air blower, solar roof



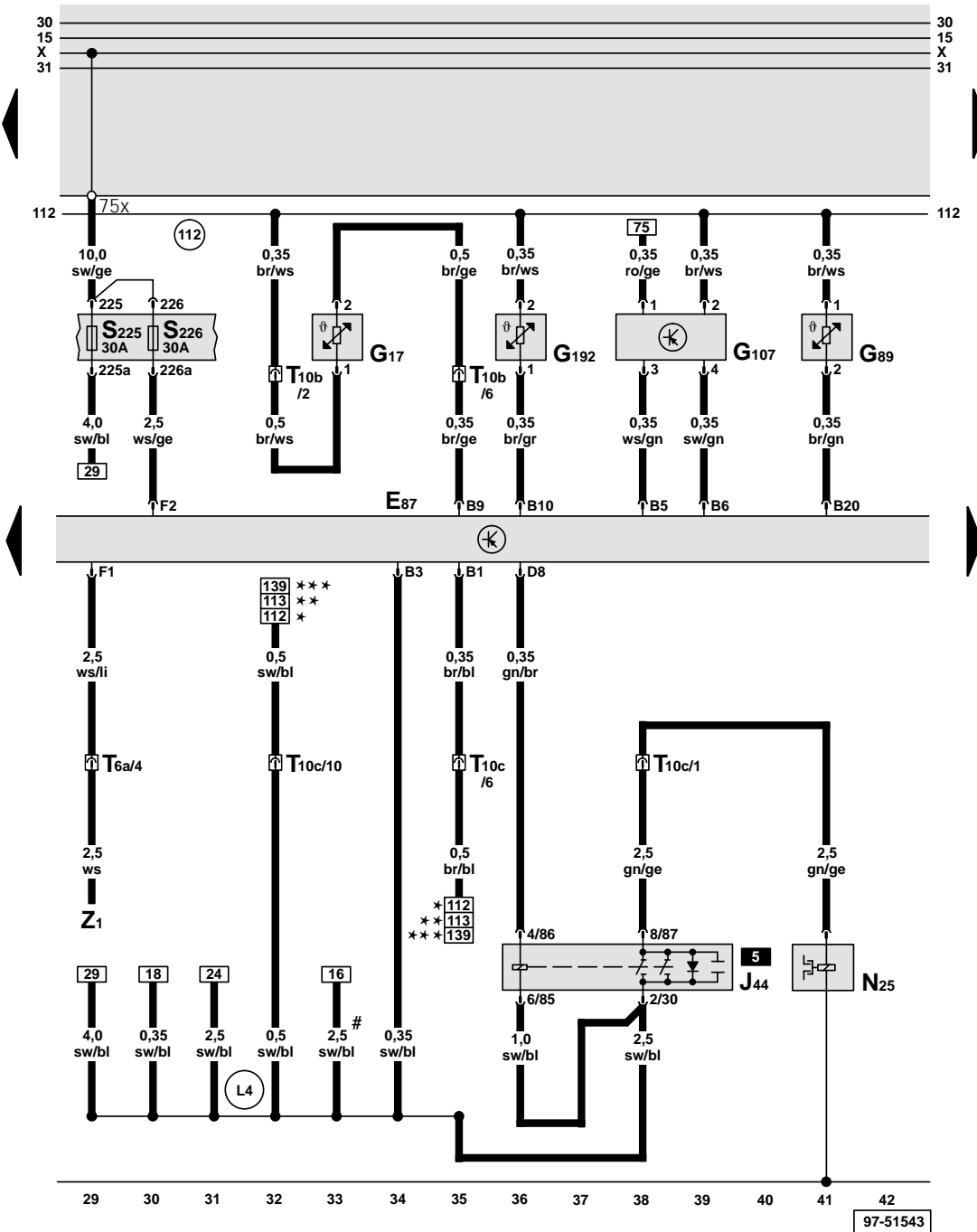
- C20 – Solar cells
- E87 – Control and display unit for air conditioner
- J126 – Fresh air blower control unit
- J309 – Solar cell isolation relay
- J347 – Ultra-sonic sensor control unit
- J355 – Solar operation control unit
- S15 – Fuse in fuse box
- T2d – 2-pin connector, blue, connector point, A pillar, left
- T3bv – 3-pin connector, orange, connector point, A pillar, right
- V2 – Fresh air blower

- (112) – Earth connection -2-, in air conditioner wiring harness
- (135) – Earth connection -2-, in dash panel wiring harness
- (199) – Earth connection -3-, in dash panel wiring harness
- (A1) – Positive (+) connection (30a), in dash panel wiring harness
- (A52) – Positive (+) connection -2- (30), in dash panel wiring harness
- (L2) – Connection, in air conditioner wiring harness
- (L10) – Connection -2-, in air conditioner wiring harness

- \* – Models with solar roof
- \*\* – Models without solar roof
- \*\*\* – Models with anti-theft alarm system
- # – Both possible

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

### Air conditioning system magnetic coupling, magnetic coupling relay, ambient temperature sensor



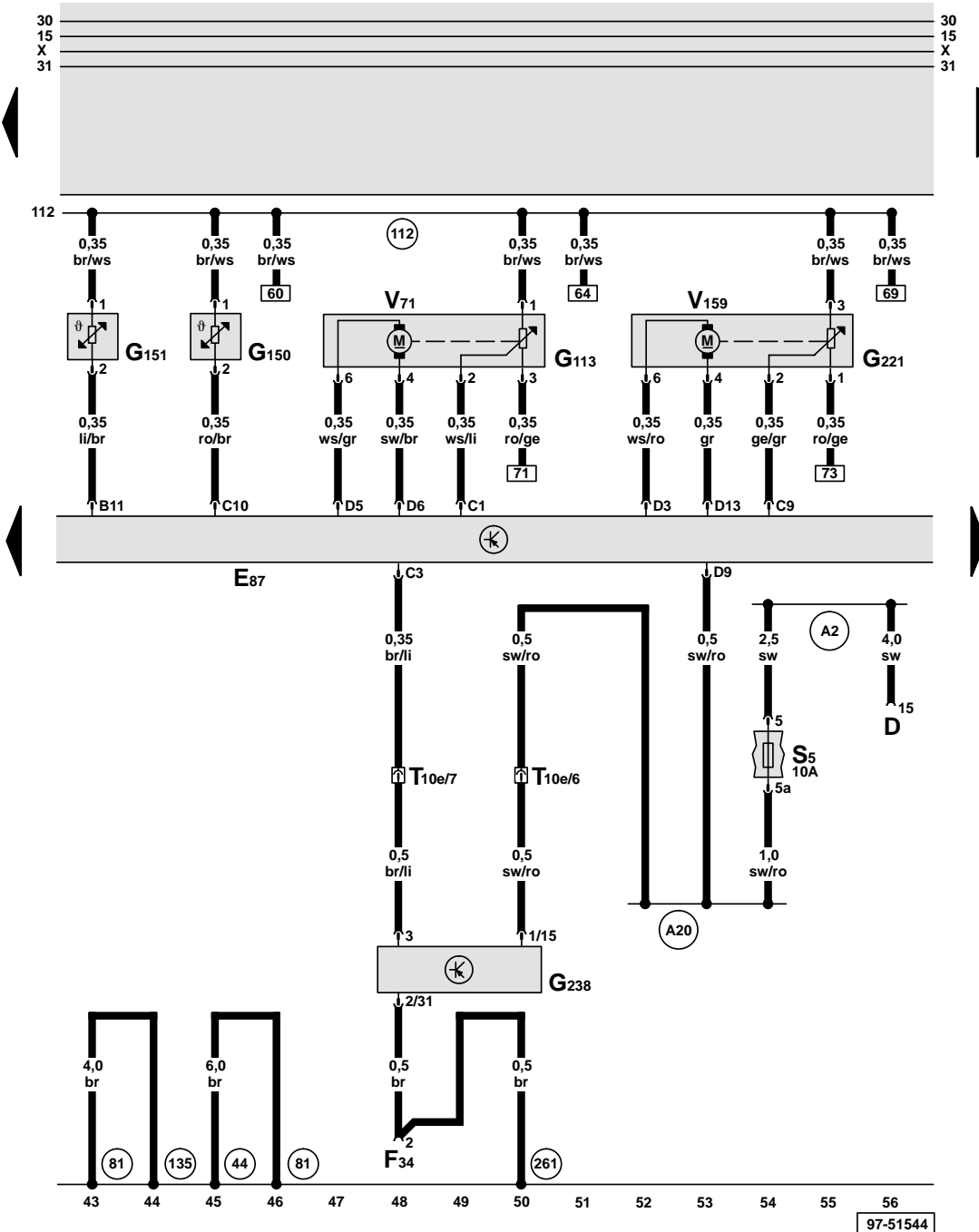
- E87 – Control and display unit for air conditioner
- G17 – Ambient temperature sensor
- G89 – Fresh air intake duct temperature sensor
- G107 – Sunlight penetration photo sensor
- G192 – Vent temperature sender, footwell
- J44 – Magnetic coupling relay
- N25 – Air conditioner magnetic coupling
- S225 – Fuse 25 in fuse box
- S226 – Fuse 26 in fuse box
- T6a – 6-pin connector, blue, connector point, A pillar, left
- T10b – 10-pin connector, red, connector point, A pillar, left
- T10c – 10-pin connector, grey, connector point, A pillar, left
- Z1 – Heated rear window

- (112) – Earth connection -2-, in air conditioner wiring harness
- (L4) – Connection (75 a), in air conditioner wiring harness

- \* – Only models with radiator fan control unit for petrol engines
- \*\* – Only models with radiator fan relay for petrol engines
- \*\*\* – Models with diesel engines
- # – Models with solar roof

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

### Air flow flap control motor, control motor for right temperature flap, vent temperature senders, air quality sensor



- D - Ignition/starter switch
- E87 - Control and display unit for air conditioner
- F34 - Brake fluid level warning contact
- G113 - Control motor potentiometer, air flow flap
- G150 - Left vent temperature sender
- G151 - Right vent temperature sender
- G221 - Control motor potentiometer, right temperature flap
- G238 - Air quality sensor
- S5 - Fuse in fuse box
- T10e - 10-pin connector, purple, connector point, A pillar, left
- V71 - Air flow flap control motor
- V159 - Temperature flap control motor, right

- (44) - Earth point, lower part of left A-pillar
- (81) - Earth connection -1-, in dash panel wiring harness
- (112) - Earth connection -2-, in air conditioner wiring harness
- (135) - Earth connection -2-, in dash panel wiring harness
- (261) - Earth connection, in heated washer jet wiring harness
- (A2) - Positive (+) connection (15), in dash panel wiring harness
- (A20) - Connection (15a), in dash panel wiring harness

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

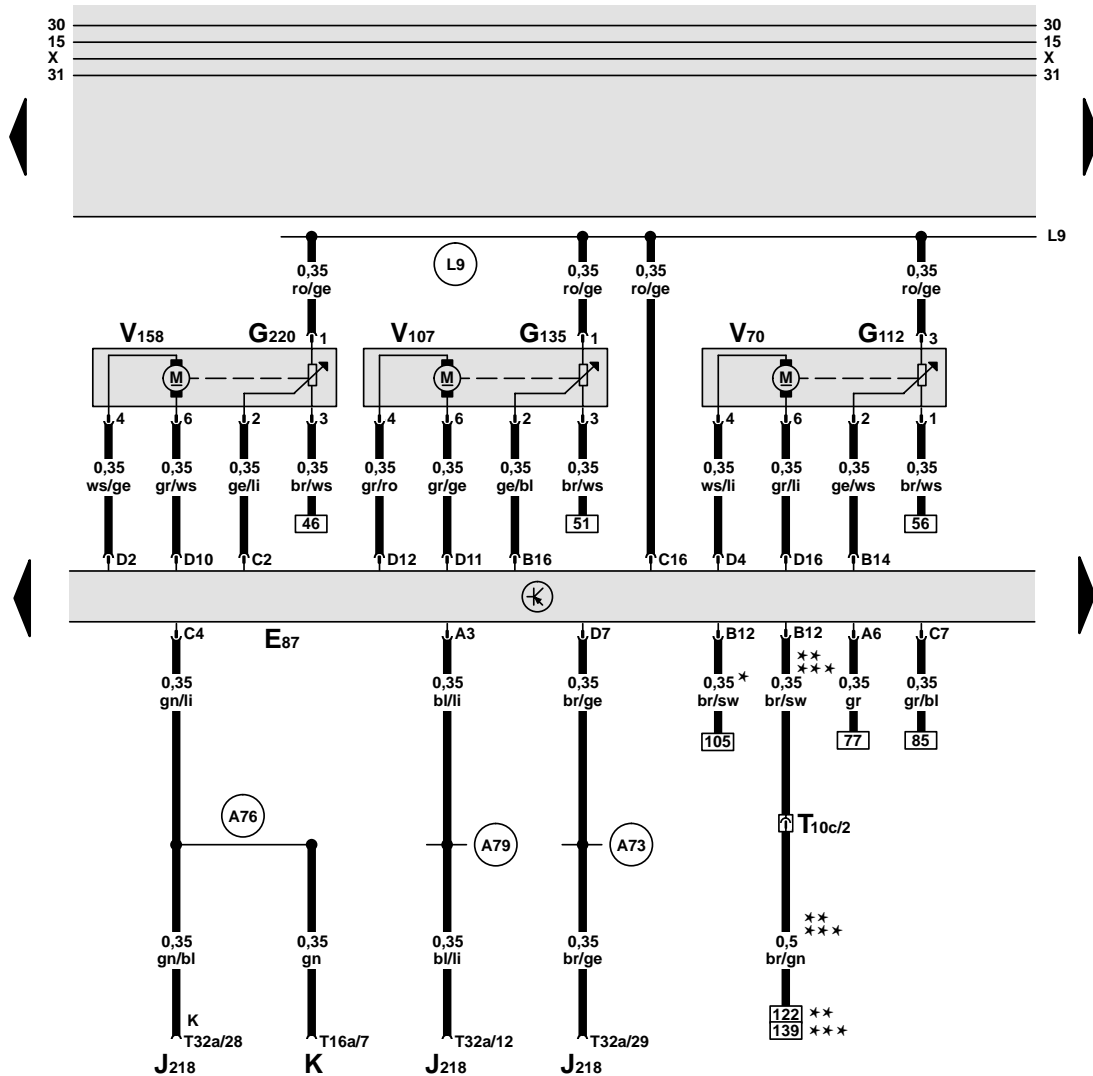
### Control motors, potentiometers

- E87 – Control and display unit for air conditioner
- G112 – Control motor potentiometer, central flap
- G135 – Control motor potentiometer, defroster flap
- G220 – Control motor potentiometer, left temperature flap
- J218 – Combi-processor in dash panel insert
- K – Diagnosis connection
- T10c – 10-pin connector, grey, connector point, A pillar, left
- T16a – 16-pin connector, diagnosis connection
- T32a – 32-pin connector, green, on dash panel insert
- V70 – Central flap control motor
- V107 – Defroster flap control motor
- V158 – Temperature flap control motor, left

- (A73) – Connection (ambient temperature display), in dash panel wiring harness
- (A76) – Connection (diagnosis wire K), in dash panel wiring harness
- (A79) – Connection (hot light switch), in dash panel wiring harness
- (L9) – Connection -1-, in air conditioner wiring harness

- \* – Only models with radiator fan control unit for petrol engines
- \*\* – Only models with radiator fan relay for petrol engines
- \*\*\* – Models with diesel engines

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



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

97-51545

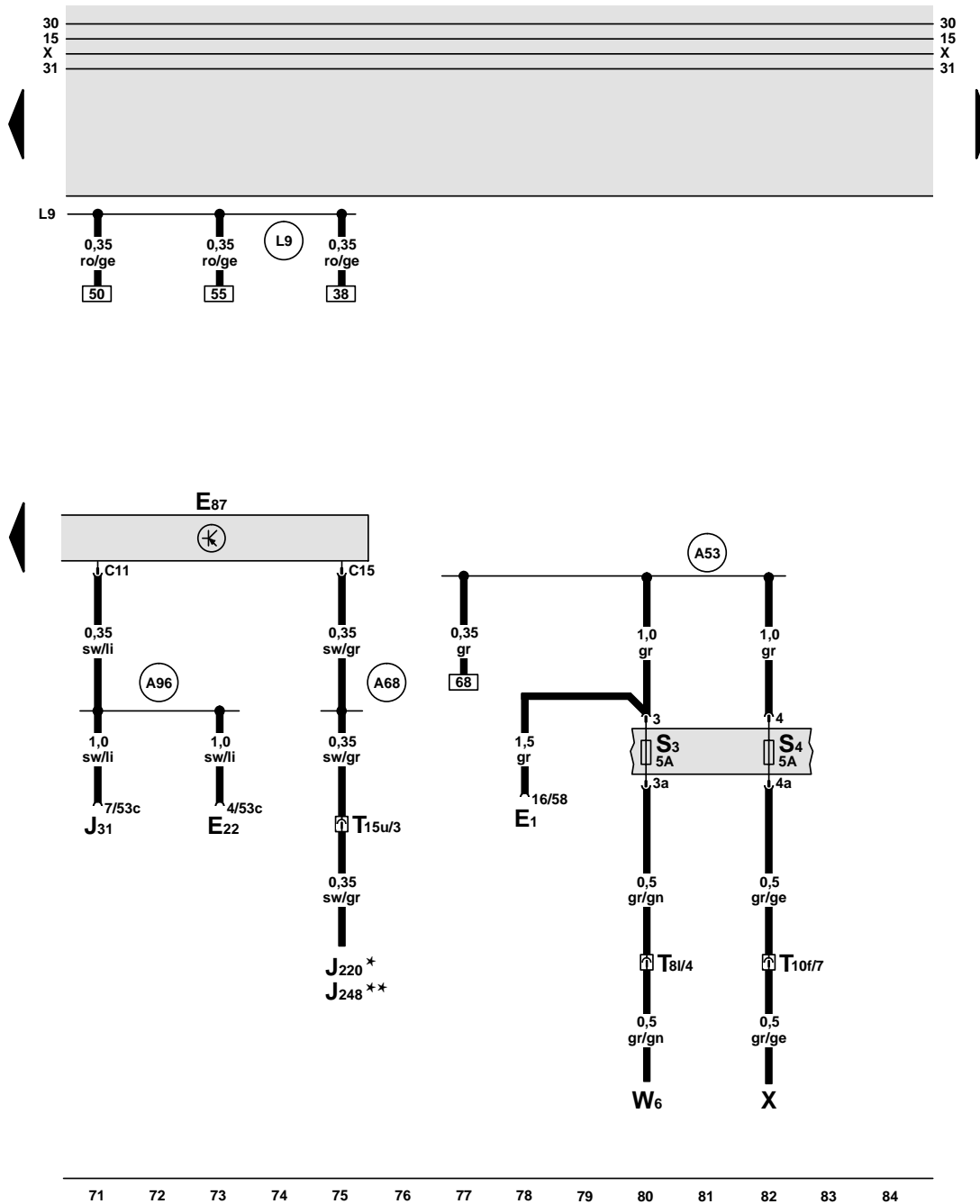
### Control and display unit for air conditioner, fuses 3, 4

- E1 - Lighting switch
- E22 - Intermittent wiper switch
- E87 - Control and display unit for air conditioner
- J31 - Automatic intermittent wash/wipe relay
- J220 - Motronic control unit
- J248 - Diesel direct injection system control unit
- S3 - Fuse in fuse box
- S4 - Fuse in fuse box
- T8I - 8-pin connector, behind dash panel, right
- T10f - 10-pin connector, brown, connector point, A pillar, left
- T15u - 15-pin connector, red, connector point, electronics box, plenum chamber
- W6 - Glove box light
- X - Number plate light

- (A53) - Positive (+) connection (58), in dash panel wiring harness
- (A68) - Connection (C15, air conditioner), in dash panel wiring harness
- (A96) - Connection (53c), in dash panel wiring harness
- (L9) - Connection -1-, in air conditioner wiring harness

- \* - Models with petrol engines
- \*\* - Models with diesel engines

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





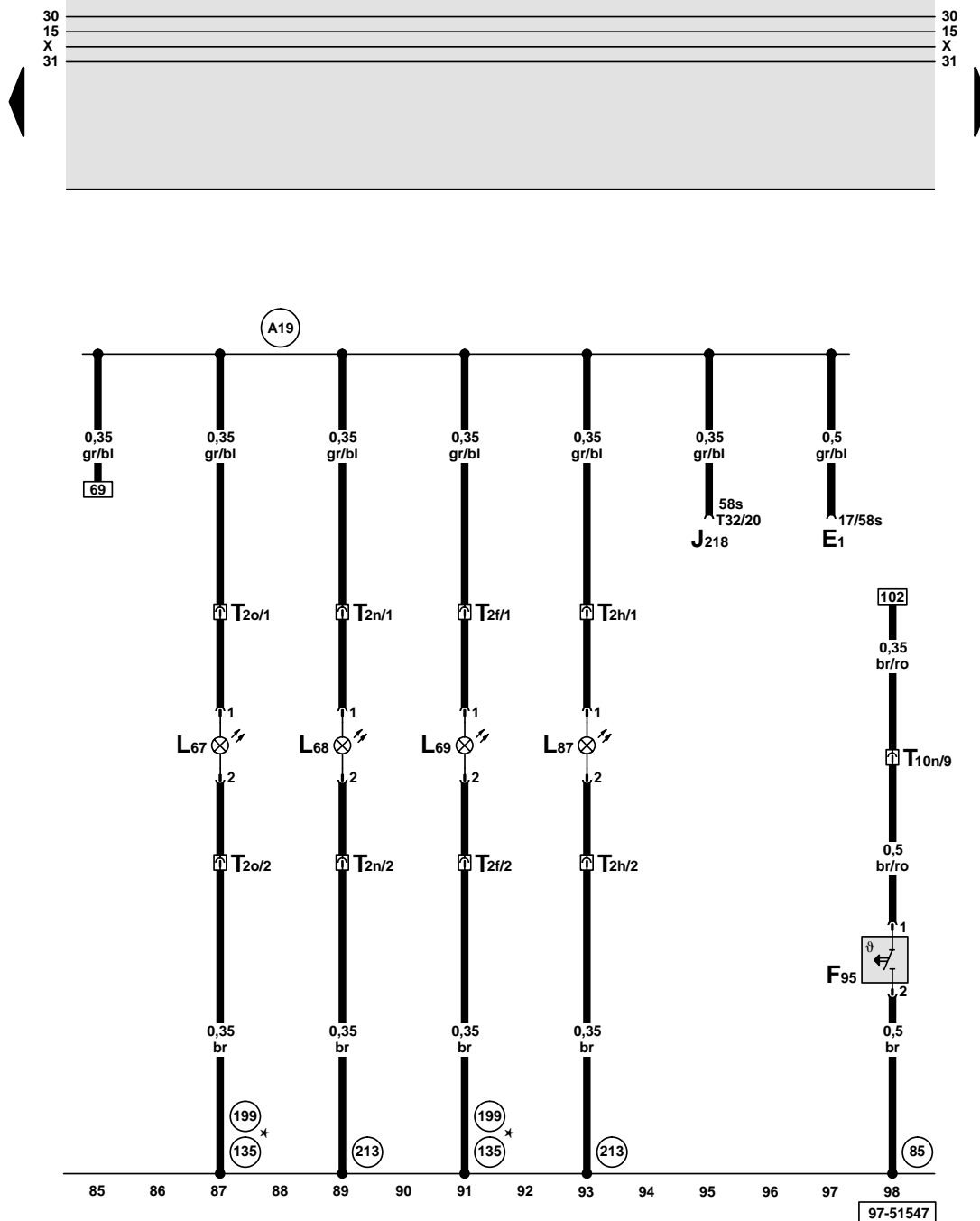
### Illumination for dash panel vents

- E1 - Lighting switch
- F95 - Thermo-switch for continued coolant circulation
- J218 - Combi-processor in dash panel insert
- L67 - Dash panel left vent illumination
- L68 - Dash panel central vent illumination
- L69 - Dash panel right vent illumination
- L87 - Central rear vent illumination
- T2f - 2-pin connector, brown, behind dash panel, right
- T2h - 2-pin connector, black, in centre console
- T2n - 2-pin connector, brown, behind dash panel, centre
- T2o - 2-pin connector, brown, behind dash panel, left
- T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
- T32 - 32-pin connector, blue, on dash panel insert

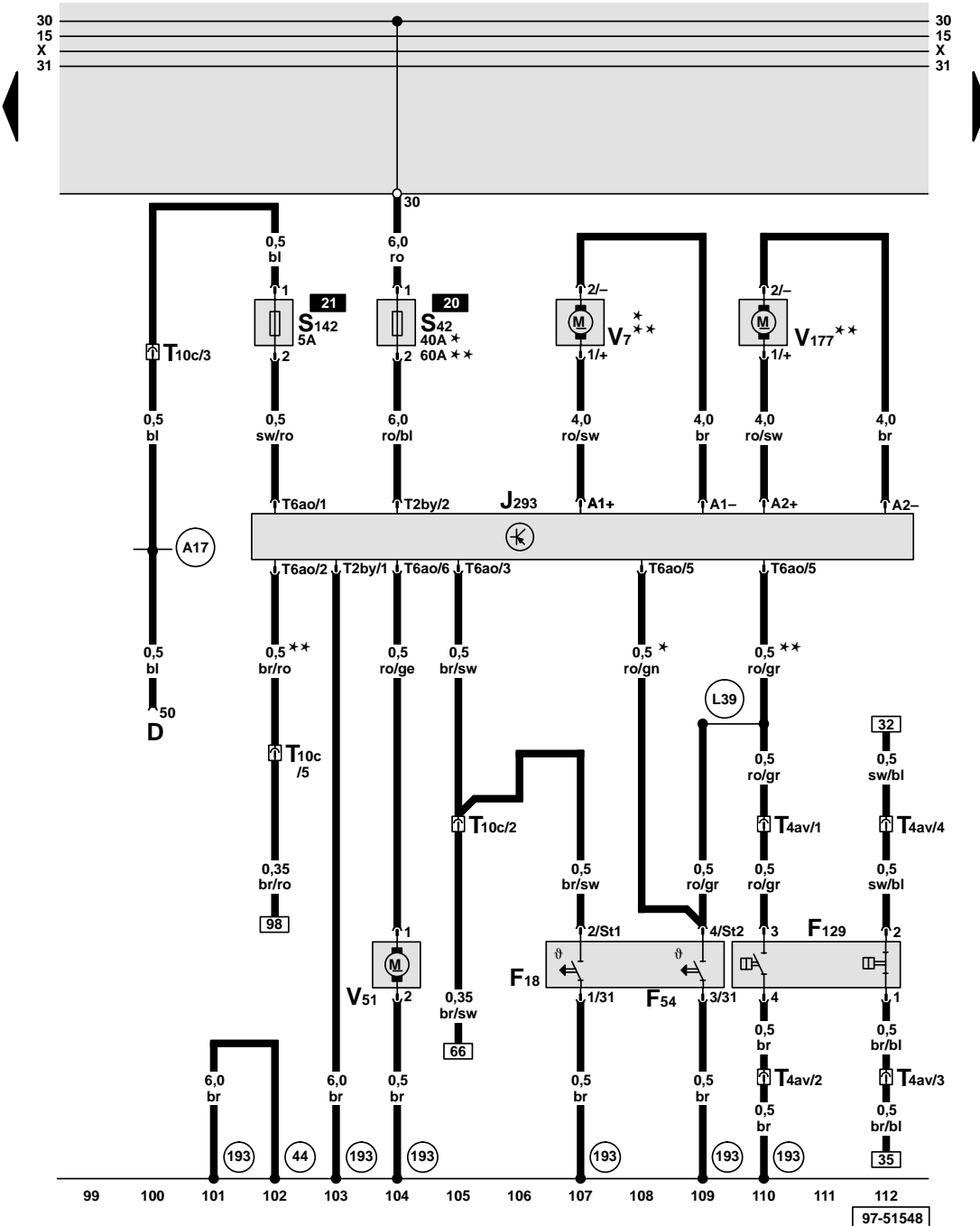
- (85) - Earth connection -1-, in engine compartment wiring harness
- (135) - Earth connection -2-, in dash panel wiring harness
- (199) - Earth connection -3-, in dash panel wiring harness
- (213) - Earth connection -4-, in dash panel wiring harness
- (A19) - Connection (58s), in dash panel wiring harness (switch illumination)

\* - Both possible

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



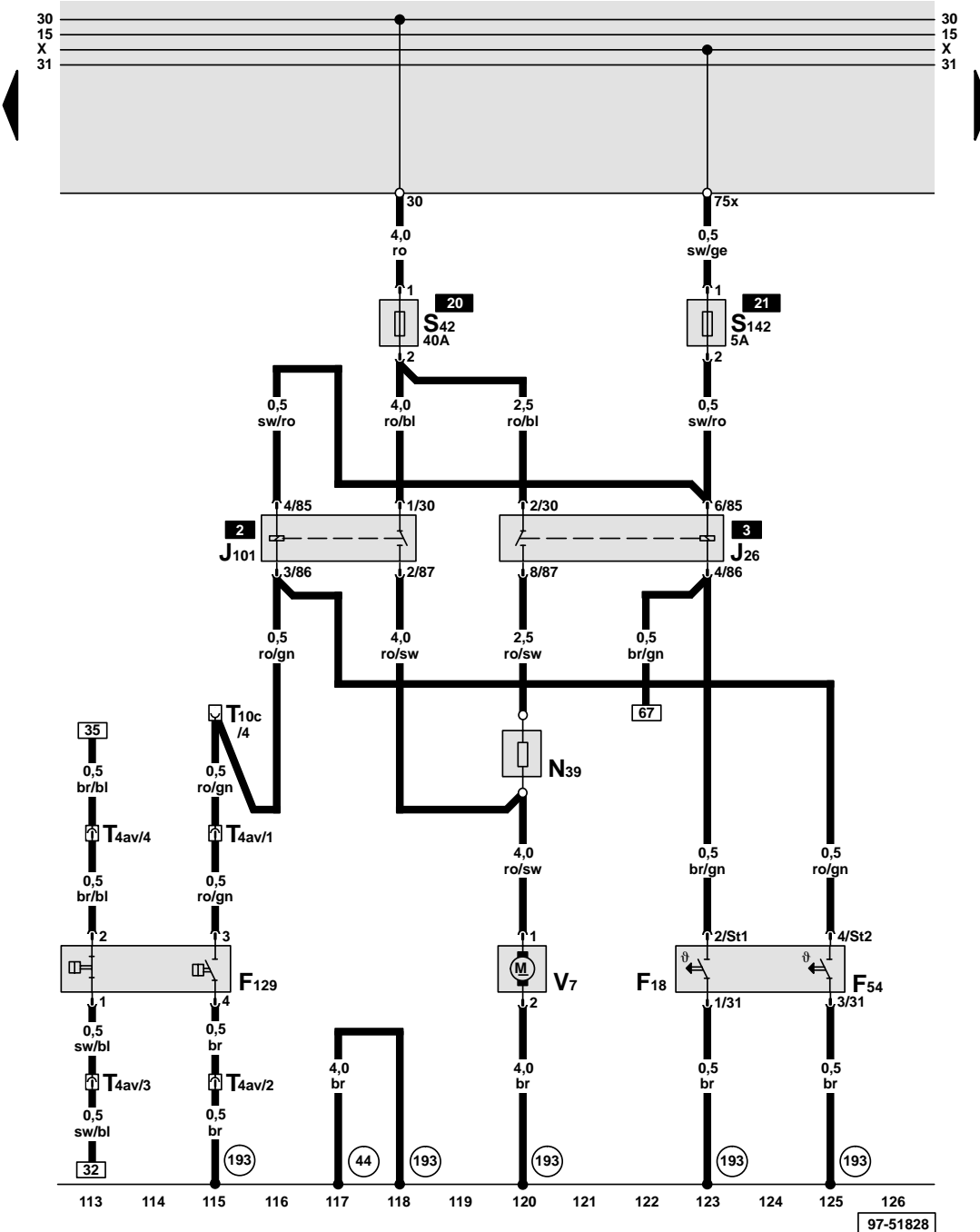
### Engine cooling with radiator fan control unit for petrol engines



- D – Ignition/starter switch
  - F18 – Radiator fan thermo-switch
  - F54 – Radiator fan thermo-switch
  - F129 – Air conditioner pressure switch
  - J293 – Radiator fan control unit, in engine compartment, front left
  - S42 – Radiator fan single fuse
  - S142 – Radiator fan control unit fuse
  - T2by – 2-pin connector, on radiator fan control unit
  - T4av – 4-pin connector, red, in engine compartment, left
  - T6ao – 6-pin connector, on radiator fan control unit
  - T10c – 10-pin connector, grey, connector point, A pillar, left
  - V7 – Radiator fan
  - V51 – Continued coolant circulation pump
  - V177 – Radiator fan -2-
- (44) – Earth point, lower part of left A pillar
  - (193) – Earth connection -1-, in radiator fan wiring harness
  - (A17) – Connection (61), in dash panel wiring harness
  - (L39) – Connection (air conditioner pressure switch) -1-, in Climatronic wiring harness
- \* – Radiator fan (300 W)
  - \*\* – Radiator fan (300 W + 200 W)

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

### Engine cooling with radiator fan relay for petrol engines



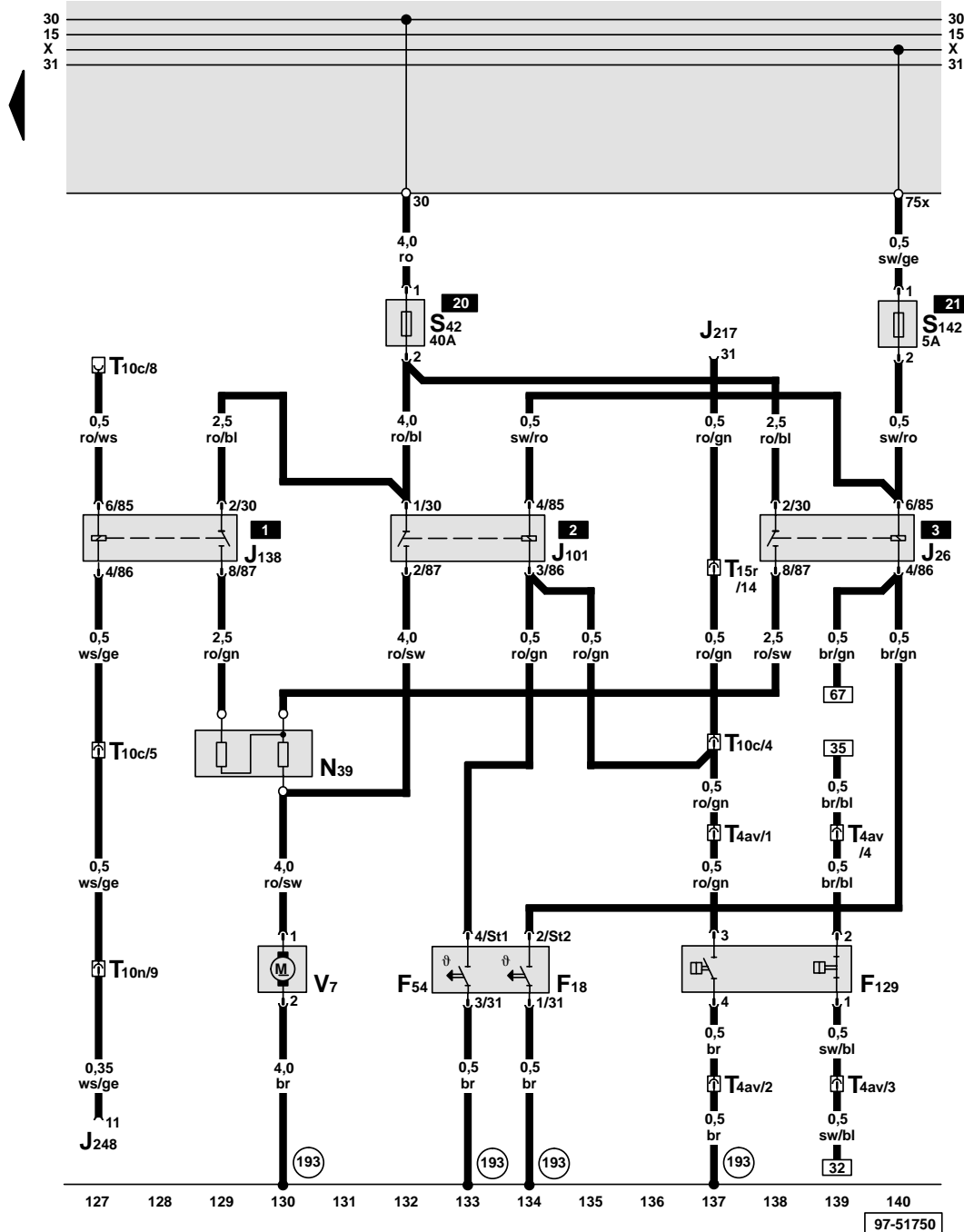
- F18 - Radiator fan thermo-switch
- F54 - Radiator fan thermo-switch
- F129 - Air conditioner pressure switch
- J26 - Radiator fan relay
- J101 - Radiator fan 2nd speed relay
- N39 - Radiator fan series resistor
- S42 - Radiator fan single fuse
- S142 - Radiator fan control unit fuse
- T4av - 4-pin connector, red, in engine compartment, left
- T10c - 10-pin connector, grey, connector point, A pillar, left
- V7 - Radiator fan
- (44) - Earth point, lower part of left A pillar
- (193) - Earth connection -1-, in radiator fan wiring harness

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

97-51828

### Engine cooling for diesel engines

- F18 - Radiator fan thermo-switch
  - F54 - Radiator fan thermo-switch
  - F129 - Air conditioner pressure switch
  - J26 - Radiator fan relay
  - J101 - Radiator fan 2nd speed relay
  - J138 - Radiator fan run-on relay
  - J217 - Automatic gearbox control unit
  - J248 - Diesel direct injection system control unit
  - N39 - Radiator fan series resistor
  - S42 - Radiator fan single fuse
  - S142 - Radiator fan control unit fuse
  - T4av - 4-pin connector, red, in engine compartment, left
  - T10c - 10-pin connector, grey, connector point, A pillar, left
  - T10n - 10-pin connector, orange, connector point, electronics box, plenum chamber
  - T15r - 15-pin connector, blue, connector point, A pillar, right
  - V7 - Radiator fan
- (193) - Earth connection -1-, in radiator fan wiring harness



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