

Audi A8

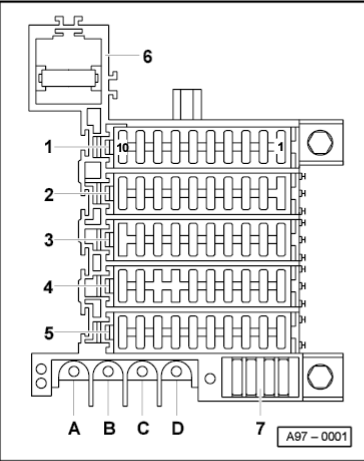
Current Flow Diagram

No. 16/1

Air conditioner with automatic control

From model year 1999

Fuse box

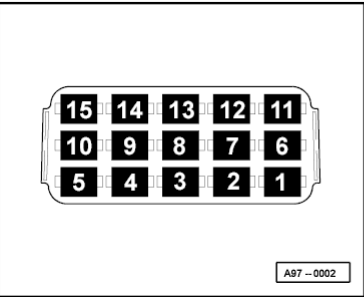


Fuse colours:

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

- 1 - Fuse carrier 1 (ST1), black
- 2 - Fuse carrier 2 (ST2), red
- 3 - Fuse carrier 3 (ST3), yellow
- 4 - Fuse carrier 4 (ST4), blue
- 5 - Fuse carrier 5 (ST5), brown
- 6 - Radiator fan fuse (S42)
- 7 - Spare fuses A, B, C, D - Screwed junctions

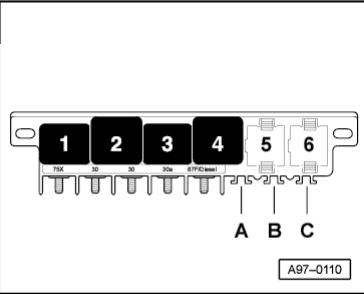
Relay carrier, electronics box, front



Position of relays:

- 7 - Solar cell isolation relay (J309)
- 14 - Magnetic coupling relay (J44)

Micro-central electrics



Position of relays:

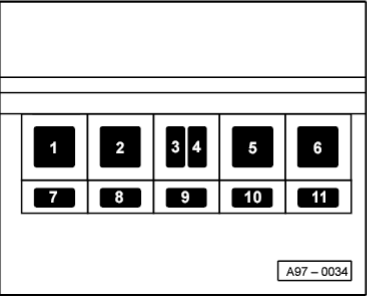
- 2 - X contact relief relay (J59)

Audi A8

Current Flow Diagram

No. 16/2

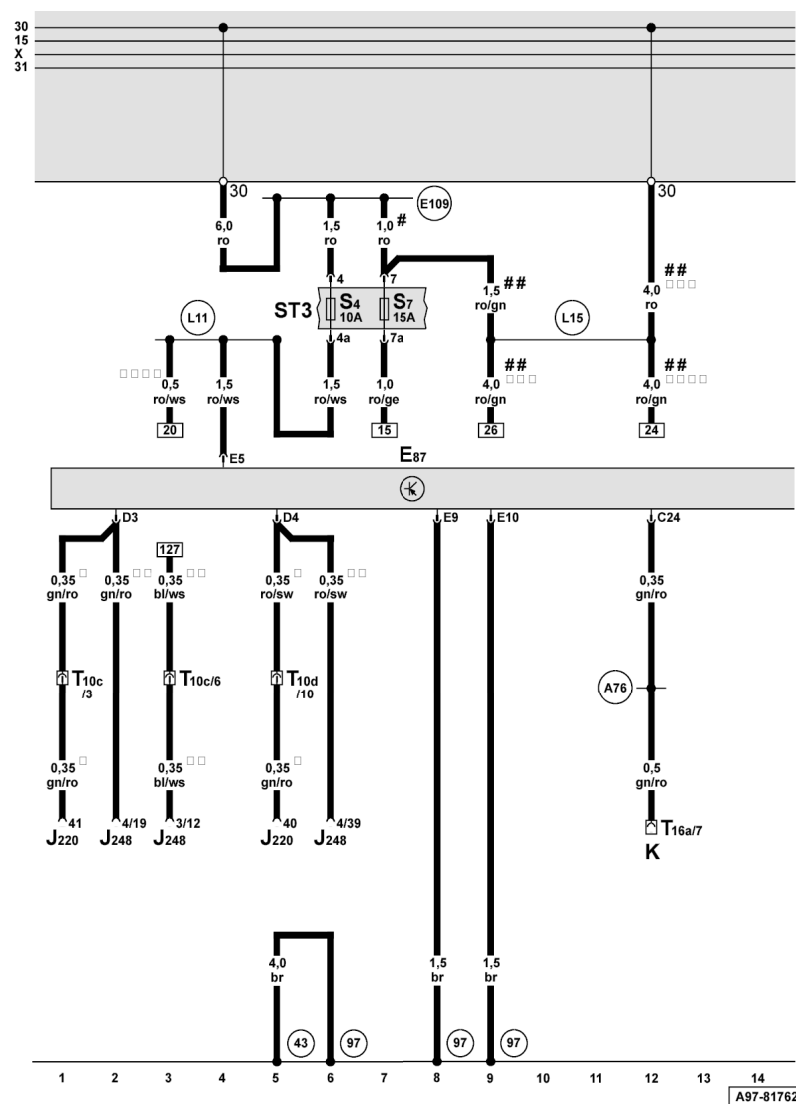
Auxiliary fuse and relay carrier,
electronics box, front passenger's footwell



Position of relays:

7 - Hot air blower single fuse (S25)

Edition 02.99



Control and display unit for air conditioner, fuses

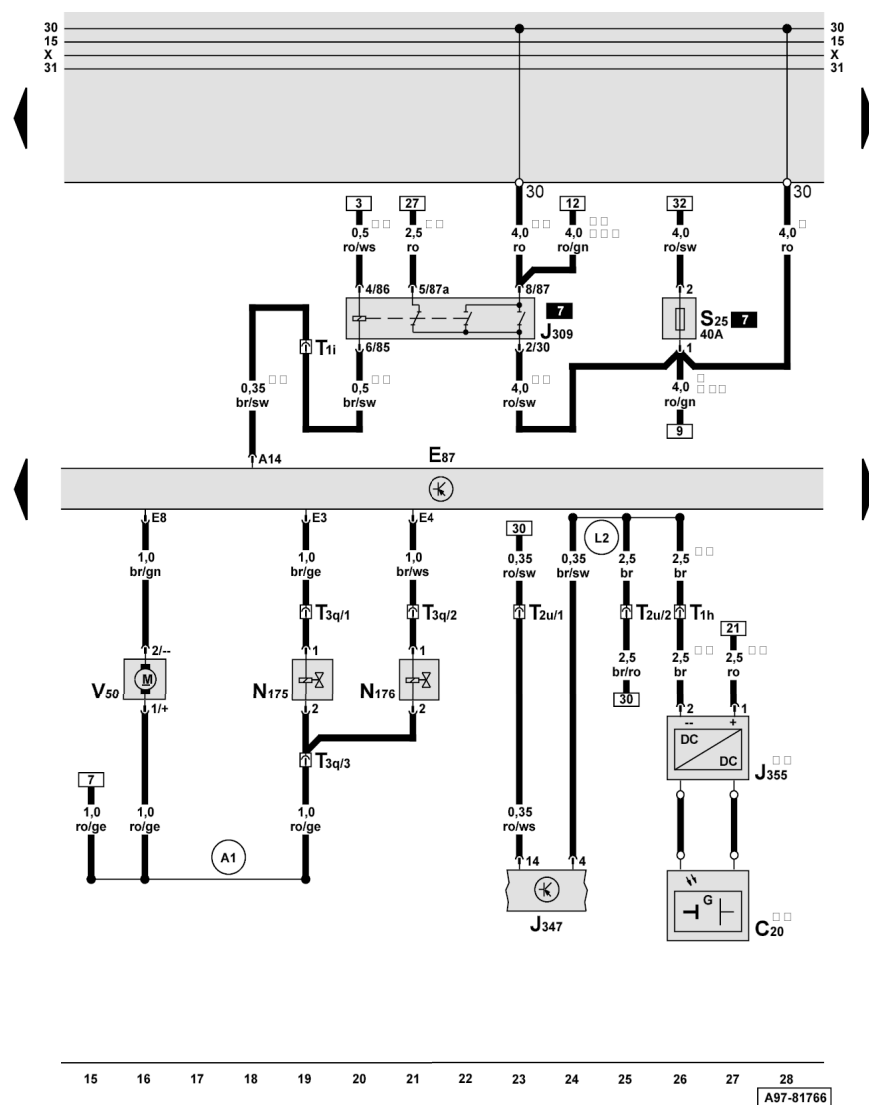
- E87 - Control and display unit for air conditioner
- J220 - Motronic control unit
- J248 - Diesel direct injection system control unit
- K - Diagnosis connection
- S4 - Fuse in fuse carrier
- S7 - Fuse in fuse carrier
- T10c - 10-pin connector, green, connector point, electronics box, plenum chamber
- T10d - 10-pin connector, red, connector point, electronics box, plenum chamber
- T16a - 16-pin connector, diagnosis connection
- 43 - Earth point, lower part of right A-pillar
- 97 - Earth connection -1-, in air conditioner wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- E109 - Connection (30, central electrics), in dash panel wiring harness
- L11 - Connection -3-, in air conditioner wiring harness
- L15 - Connection (fresh air blower), in auxiliary heater wiring harness
- * - Models with petrol engines
- ** - Models with diesel engines
- *** - Models without solar roof
- **** - Models with solar roof
- # - Models without auxiliary heater
- ## - Models with auxiliary heater

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

Audi A8

Current Flow Diagram

No. 16 / 3



Control and display unit for air conditioner, heat regulation valves, solar roof

- C20 - Solar cells
- E87 - Control and display unit for air conditioner
- J309 - Solar cell isolation relay
- J347 - Ultra-sonic sensor control unit
- J355 - Solar operation control unit
- N175 - Heat regulation valve, left
- N176 - Heat regulation valve, right
- S25 - Hot air blower single fuse
- T1h - Single connector, yellow, electronics box in footwell, front right
- T1i - Single connector, yellow, electronics box in footwell, front right
- T2u - 2-pin connector, black, electronics box in footwell, front right
- T3q - 3-pin connector, brown, in plenum chamber, left
- V50 - Coolant circulation pump
- A1 - Positive (+) connection (30a), in dash panel wiring harness
- L2 - Connection, in air conditioner wiring harness
- * - Models without solar roof
- ** - Models with solar roof
- *** - Models with auxiliary heater

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

Audi A8

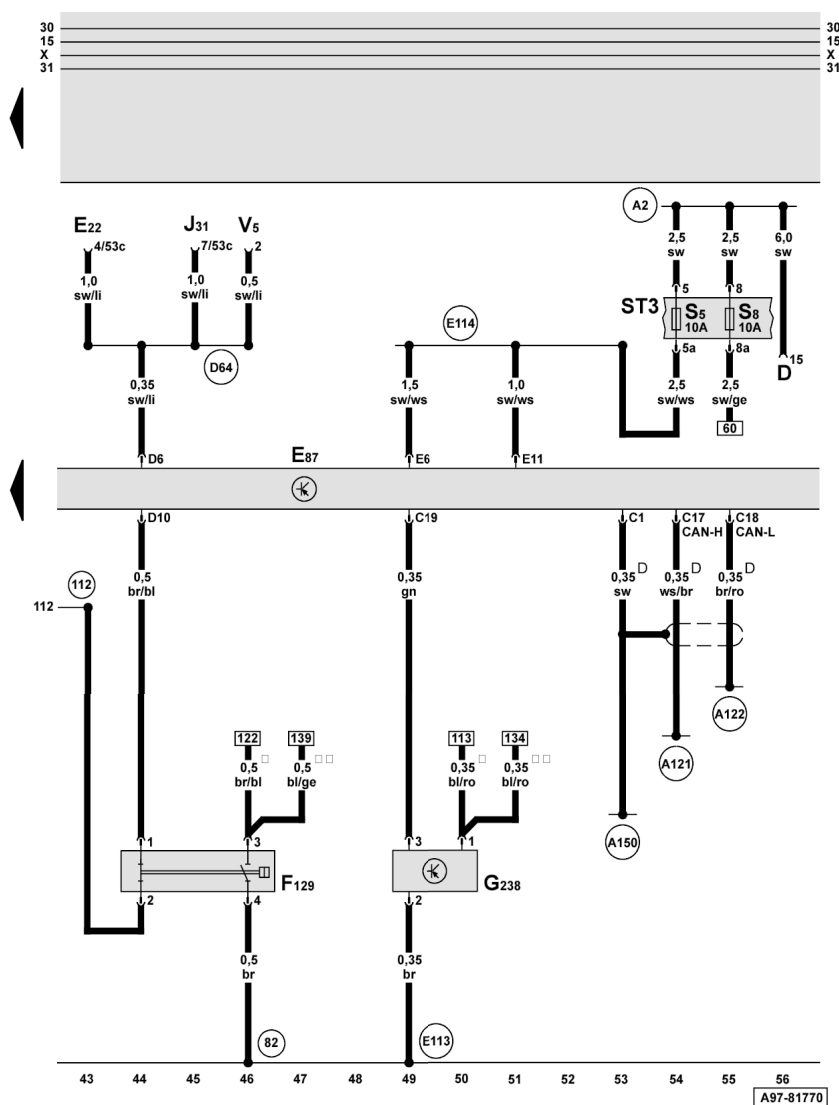
Current Flow Diagram

No. 16 / 4

Audi A8

Current Flow Diagram

No. 16 / 5



Control and display unit for air conditioner, air conditioner pressure switch, air quality sensor

- D - Ignition/starter switch
- E22 - Intermittent wiper switch
- E87 - Control and display unit for air conditioner
- F129 - Air conditioner pressure switch
- G238 - Air quality sensor
- J31 - Automatic intermittent wash/wipe relay
- S5 - Fuse in fuse carrier
- S8 - Fuse in fuse carrier
- V5 - Windscreen washer pump
- 82 - Earth connection -1-, in front left wiring harness
- 112 - Earth connection -2-, in air conditioner wiring harness
- A2 - Positive (+) connection (15), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- A150 - Connection (data bus, screening), in dash panel wiring harness
- D64 - Positive (+) connection (53c), in engine compartment wiring harness
- E113 - Earth connection, in dash panel wiring harness, right
- E114 - Connection (air conditioner - 15a), in dash panel wiring harness
- - CAN bus (data wire)
- * - Models with petrol engines
- ** - Models with diesel engines

Audi A8

Current Flow Diagram

No. 16 / 6



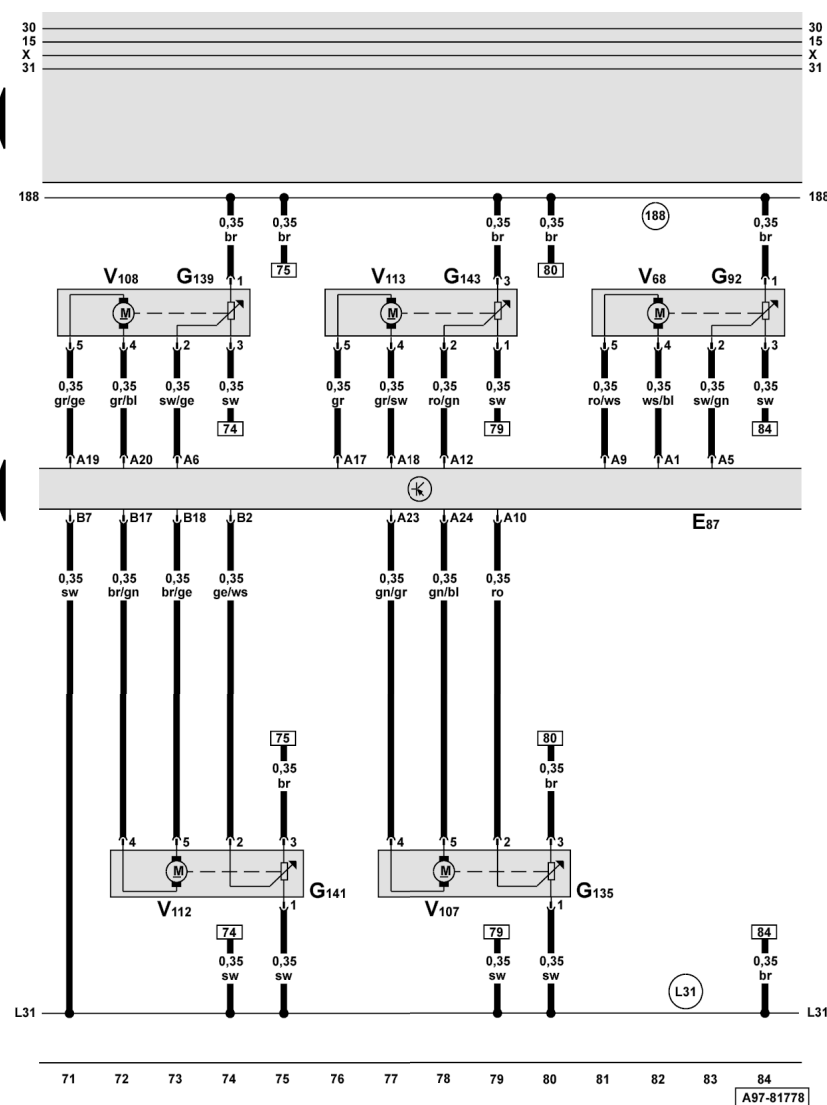
- E87 - Control and display unit for air conditioner
- G89 - Fresh air intake duct temperature sensor
- G137 - Control motor potentiometer, right central vent
- G139 - Control motor potentiometer, left footwell flap
- G150 - Left vent temperature sender
- G151 - Right vent temperature sender
- J44 - Magnetic coupling relay
- J201 - Protective diode
- N25 - Air conditioner magnetic coupling
- T1e - Single connector, green, near compressor
- V109 - Footwell flap control motor, right
- V111 - Centre vent control motor, right
- 188 - Earth connection -3-, in air conditioner wiring harness
- A139 - Connection -3- (15), in dash panel wiring harness
- L31 - Connection (5V), in air conditioner wiring harness

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

Audi A8

Current Flow Diagram

No. 16 / 7



Control and display unit for air conditioner, left footwell flap

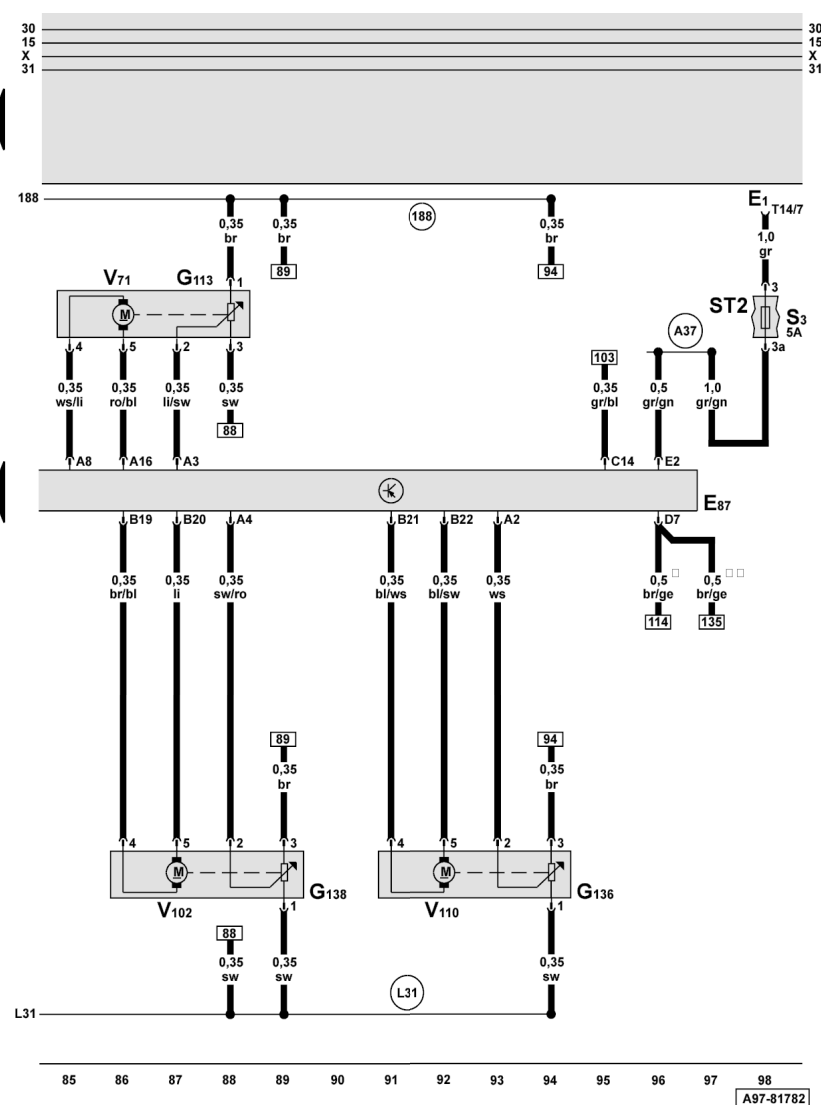
control motor, rear footwell vent control motor

- E87 - Control and display unit for air conditioner
- G92 - Control motor potentiometer, temperature flap
- G135 - Control motor potentiometer, defroster flap
- G139 - Control motor potentiometer, left footwell flap
- G141 - Control motor potentiometer, rear footwell vent
- G143 - Control motor potentiometer, air recirculation flap
- V68 - Temperature flap control motor
- V107 - Defroster flap control motor
- V108 - Footwell flap control motor, left
- V112 - Rear footwell vent control motor
- V113 - Air recirculation flap control motor
- 188 - Earth connection -3-, in air conditioner wiring harness
- L31 - Connection (5V), in air conditioner wiring harness

Audi A8

Current Flow Diagram

No. 16 / 8



Control and display unit for air conditioner, control motors for vents

- E1 - Lighting switch
- E87 - Control and display unit for air conditioner
- G113 - Control motor potentiometer, air flow flap
- G136 - Control motor potentiometer, left central vent
- G138 - Control motor potentiometer, central vent
- S3 - Fuse in fuse carrier
- T14 - 14-pin connector, purple, behind steering column switch trim
- V71 - Air flow flap control motor
- V102 - Centre vents control motor
- V110 - Centre vent control motor, left
- 188 - Earth connection -3-, in air conditioner wiring harness

A37 - Connection (58a), in dash panel wiring harness

L31 - Connection (5V), in air conditioner wiring harness

* - Models with petrol engines

** - Models with diesel engines

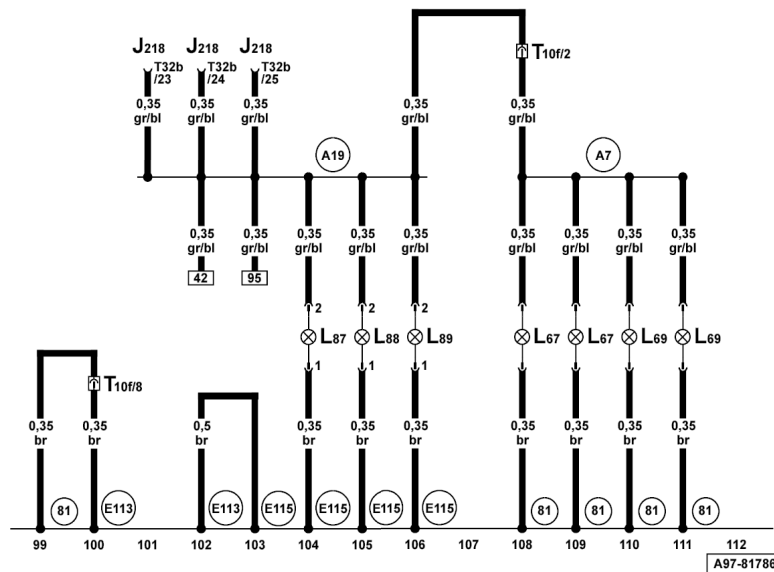
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink

No. 16 / 9



D	- Ignition/starter switch
J59	- X contact relief relay
J218	- Combi-processor in dash panel insert
L67	- Dash panel left vent illumination
L69	- Dash panel right vent illumination
L87	- Central rear vent illumination
L88	- Rear left vent illumination
L89	- Rear right vent illumination
T10f	- 10-pin connector, purple, footwell, right, at wheelhouse, behind carpet
T32b	- 32-pin connector, grey, on dash panel insert
81	- Earth connection -1-, in dash panel wiring harness
A7	- Positive (+) connection (58 D1), in dash panel wiring harness
A19	- Connection (58s), in dash panel wiring harness (switch illumination)
A34	- Connection (75x), in dash panel wiring harness
E113	- Earth connection, in dash panel wiring harness, right
E115	- Earth connection (centre console), in dash panel wiring harness

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

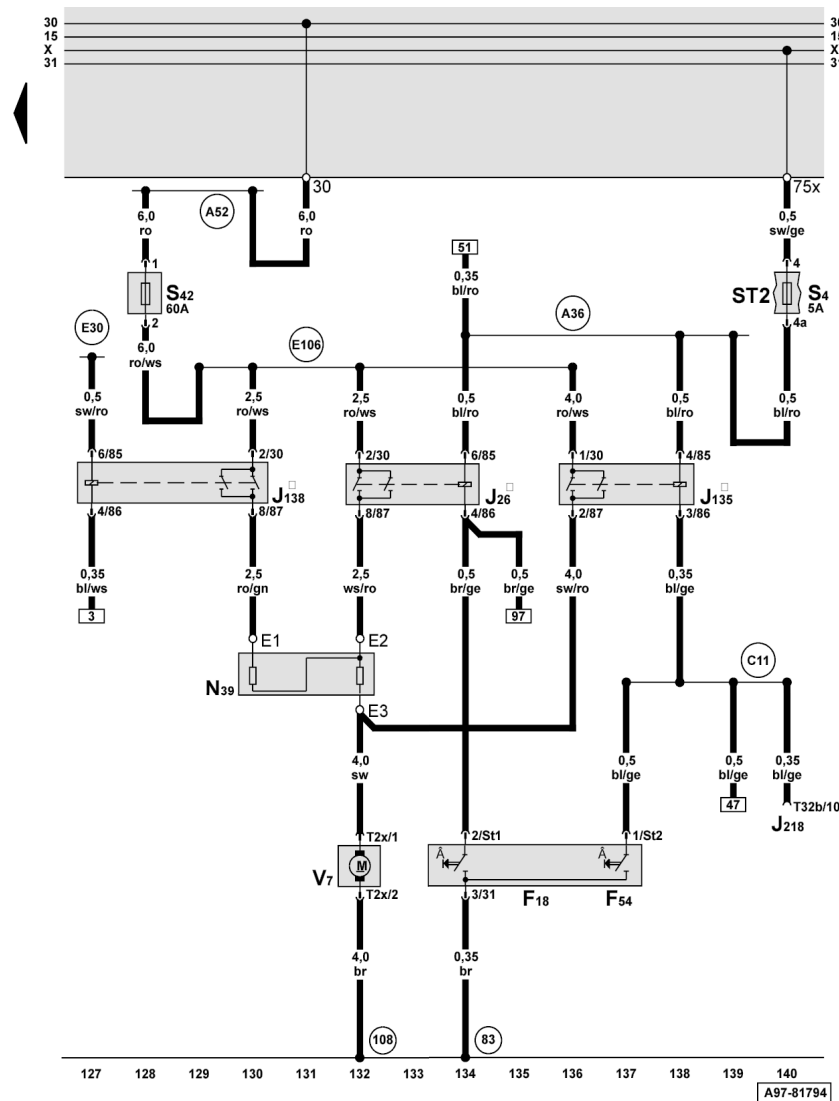


No. 16 / 10

Audi A8

Current Flow Diagram

No. 16 / 11



Engine cooling for diesel engines

- F18 - Radiator fan thermo-switch
- F54 - Radiator fan thermo-switch
- J26 - Radiator fan relay
- J135 - Radiator fan 3rd speed relay
- J138 - Radiator fan run-on relay
- J218 - Combi-processor in dash panel insert
- N39 - Radiator fan series resistor
- S4 - Fuse in fuse carrier
- S42 - Radiator fan single fuse
- T2x - 2-pin connector, brown, at radiator fan
- T32b - 32-pin connector, grey, on dash panel insert
- V7 - Radiator fan
- 83 - Earth connection -1-, in front right wiring harness

- 108 - Earth connection -2-, in front left wiring harness
- A36 - Connection (75a), in dash panel wiring harness

- A52 - Positive (+) connection -2- (30), in dash panel wiring harness

- C11 - Connection, in radiator fan wiring harness

- E30 - Connection (87a), in engine wiring harness

- E106 - Connection (30, radiator fan), in dash panel wiring harness

- * - Near ABS control unit