

# Audi A4

## Current Flow Diagram

**No. 109 / 1**

Edition 10.2006

### Basic equipment

- Lowline
- Highline

from model year 2006

#### Notes:

For information concerning

- ◆ Position of relays and fuses
- ◆ Multi-pin connections
- ◆ Control units and relays
- ◆ Earth connections

→ List of Fitting Locations!

For information concerning

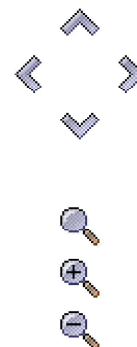
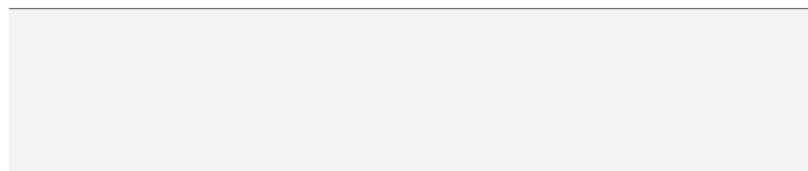
- ◆ Fault Finding Programs

→ guided fault finding

## Audi A4

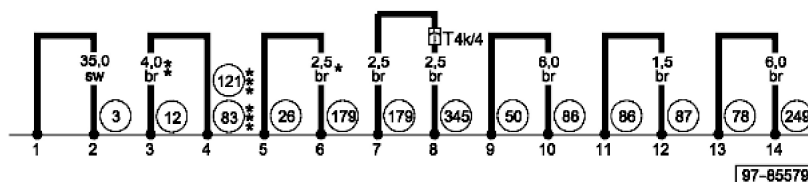
## Current Flow Diagram

No. 109 / 2



## Earth connections

- T4k - 4-pin connector, black, near front bumper
- 3 - Earth strap, engine - body
- 12 - Earth point, on left in engine compartment 📷
- 26 - Earth point, on front apron 📷
- 50 - Earth point, on left in luggage compartment 📷
- 78 - Earth point, lower part of right B-pillar 📷
- 83 - Earth connection 1, in front right wiring harness
- 86 - Earth connection 1, in rear wiring harness
- 87 - Earth connection 2, in rear wiring harness
- 121 - Earth connection 2, in front right wiring harness
- 179 - Earth connection, in left headlight wiring harness
- 249 - Earth connection 2, in interior wiring harness
- 345 - Earth connection, in bumper wiring harness
- \* - Cross-section 4.0 possible
- \*\* - Cross-section 6.0 possible
- \*\*\* - ⇒ applicable engine Current Flow Diagram



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

## Audi A4

## Current Flow Diagram

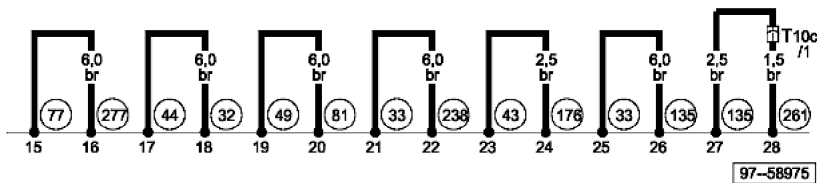
No. 109 / 3



### Earth connections

- T10c - 10-pin connector, violet, coupling station on left of A-pillar
- 32 - Earth point, on left behind dash panel insert
- 33 - Earth point, on right behind dash panel
- 43 - Earth point, lower part of right A-pillar
- 44 - Earth point, lower part of left A-pillar
- 49 - Earth point, near convenience system central control unit
- 77 - Earth point, lower part of left B-pillar
- 81 - Earth connection 1, in dash panel wiring harness
- 135 - Earth connection 2, in dash panel wiring harness
- 176 - Earth connection, in right headlight wiring harness
- 238 - Earth connection 1, in interior wiring harness
- 261 - Earth connection, in heated washer jet wiring harness
- 277 - Earth connection 3, in interior wiring harness

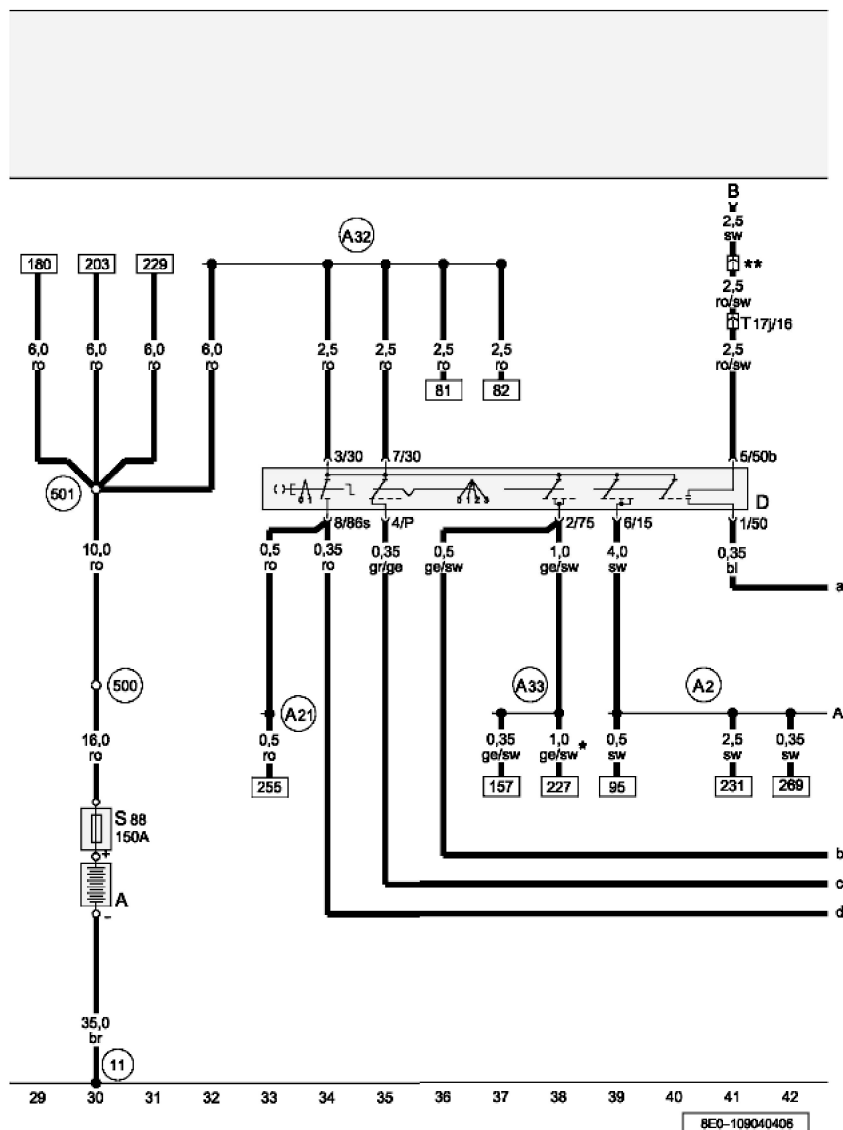
ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = purple  
 ge = yellow  
 or = orange  
 rs = pink



## Audi A4

## Current Flow Diagram

No. 109 / 4



## Ignition/starter switch, main fuse

- A - Battery
- B - Starter
- D - Ignition/starter switch
- S88 - Strip fuse
- T17j - 17-pin connector, brown, coupling station on electronics box, plenum chamber
- 11 - Earth point, in battery box
- 500 - Screw connection 1 (30), on relay plate
- 501 - Screw connection 2 (30), on relay plate
- A2 - Positive connection (15), in dash panel wiring harness
- A21 - Connection (86s), in dash panel wiring harness
- A32 - Positive connection (30), in dash panel wiring harness
- A33 - Connection (75), in dash panel wiring harness
- \* - for models with washer jet heater element only
- \*\* - ⇒ applicable engine Current Flow Diagram

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


## Audi A4

## Current Flow Diagram

No. 109 / 5





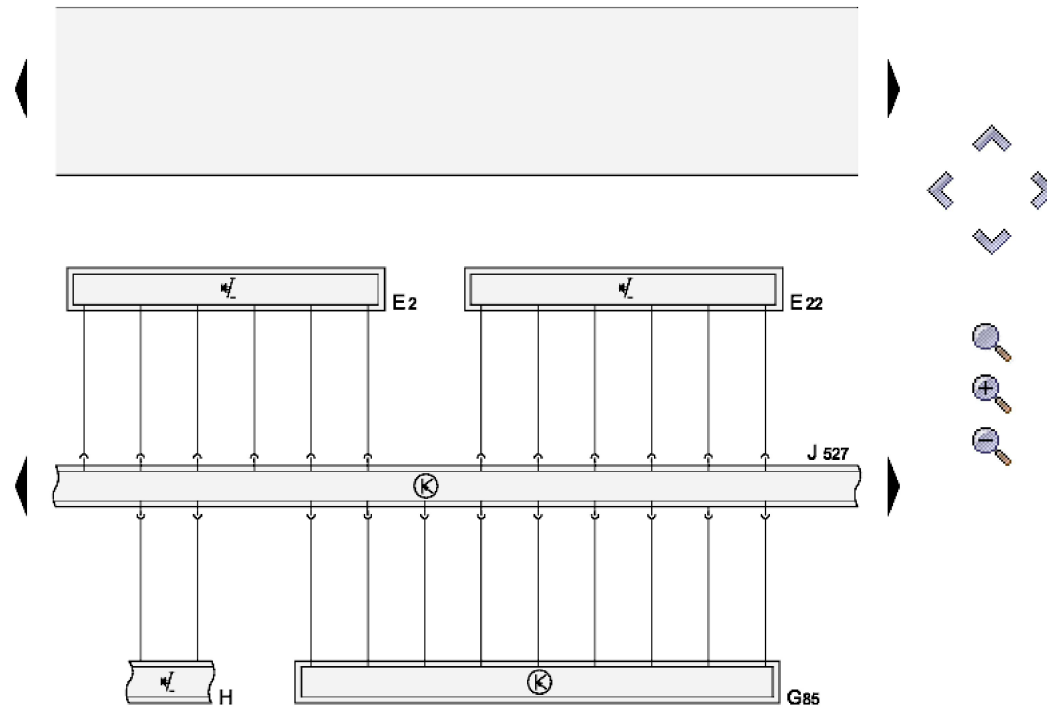
- E45 - Cruise control system switch
- J527 - Steering column electronics control unit 
- J623 - Engine control unit
- T16a - 16-pin connector, black, on steering column electronics control unit
- T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
- 135 - Earth connection 2, in dash panel wiring harness
- A2 - Positive connection (15), in dash panel wiring harness
- \* - ⇒ applicable engine Current Flow Diagram

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

## Audi A4

## Current Flow Diagram

No. 109 / 6

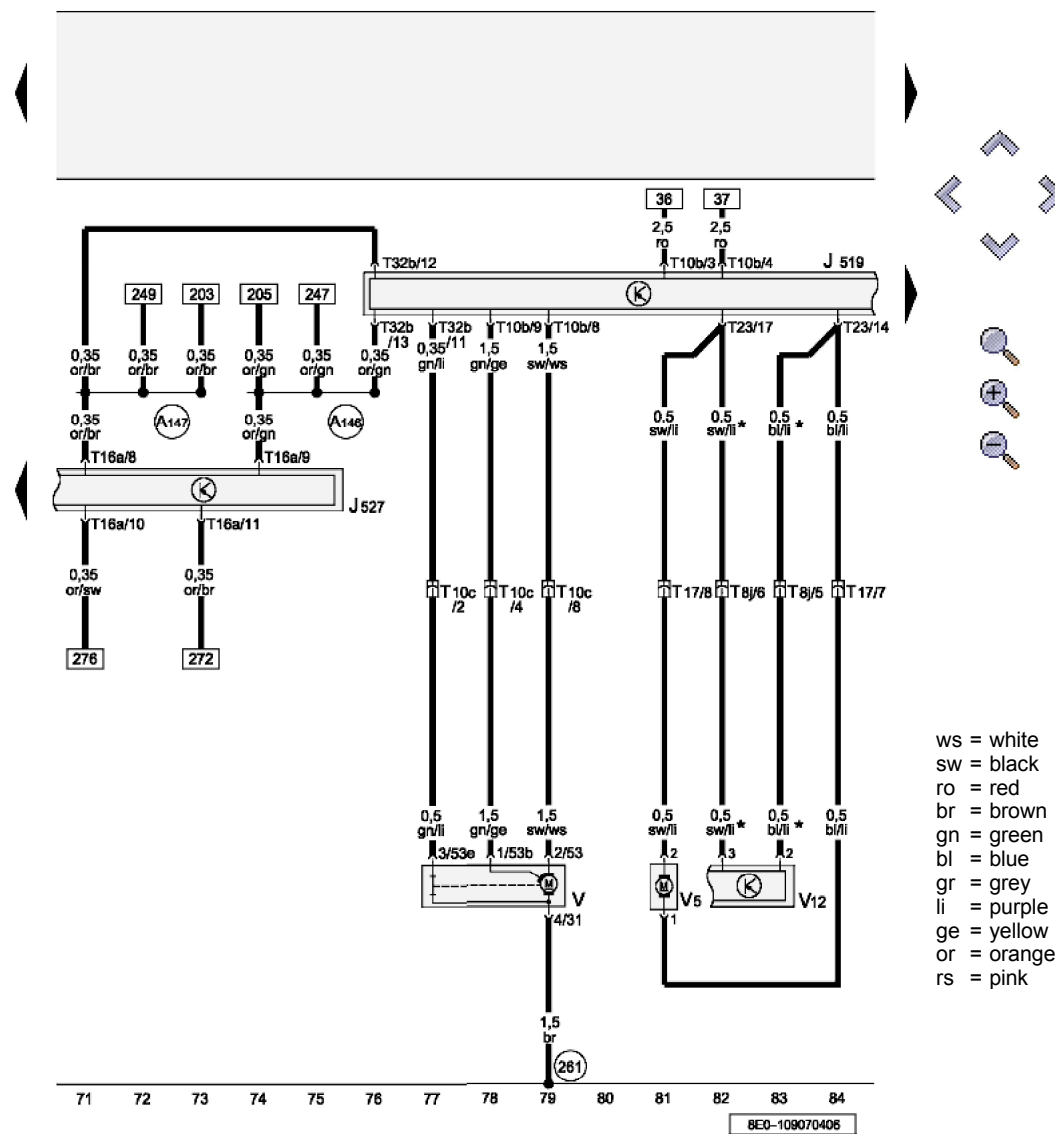


57 58 59 60 61 62 63 64 65 66 67 68 69 70  
97-55472



## Audi A4

## Current Flow Diagram

No. 109 / 7



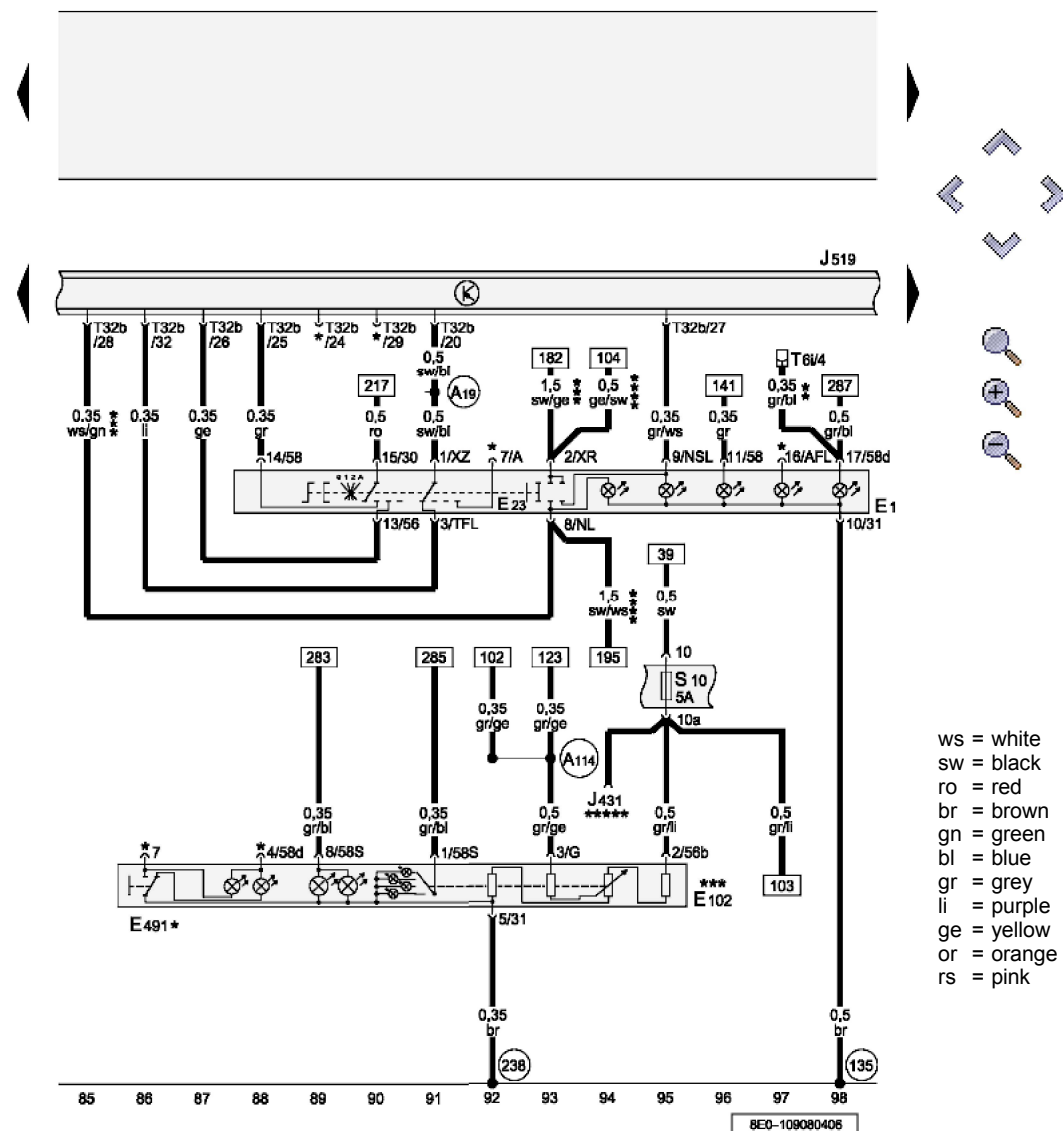
**Onboard supply control unit, steering column electronics control unit, windscreen wiper motor, washer pump, rear window wiper motor**

- J519 - Onboard supply control unit 
- J527 - Steering column electronics control unit 
- T8j - 8-pin connector, black, behind side trim on rear left
- T10b - 10-pin connector, black, on onboard supply control unit
- T10c - 10-pin connector, violet, coupling station on left of A-pillar
- T16a - 16-pin connector, black, on steering column electronics control unit
- T17 - 17-pin connector, black, coupling station on left of A-pillar
- T23 - 23-pin connector, black, on onboard supply control unit
- T32b - 32-pin connector, grey, on onboard supply control unit
- V - Windscreen wiper motor
- V5 - Washer pump
- V12 - Rear window wiper motor
- 261 - Earth connection, in heated washer jet wiring harness
- A146 - Connection (convenience CAN bus, high), in dash panel wiring harness
- A147 - Connection (convenience CAN bus, low), in dash panel wiring harness
- \* - for Avant models, ⇒ see applicable Current Flow Diagram: Avant models, rear

## Audi A4

## Current Flow Diagram

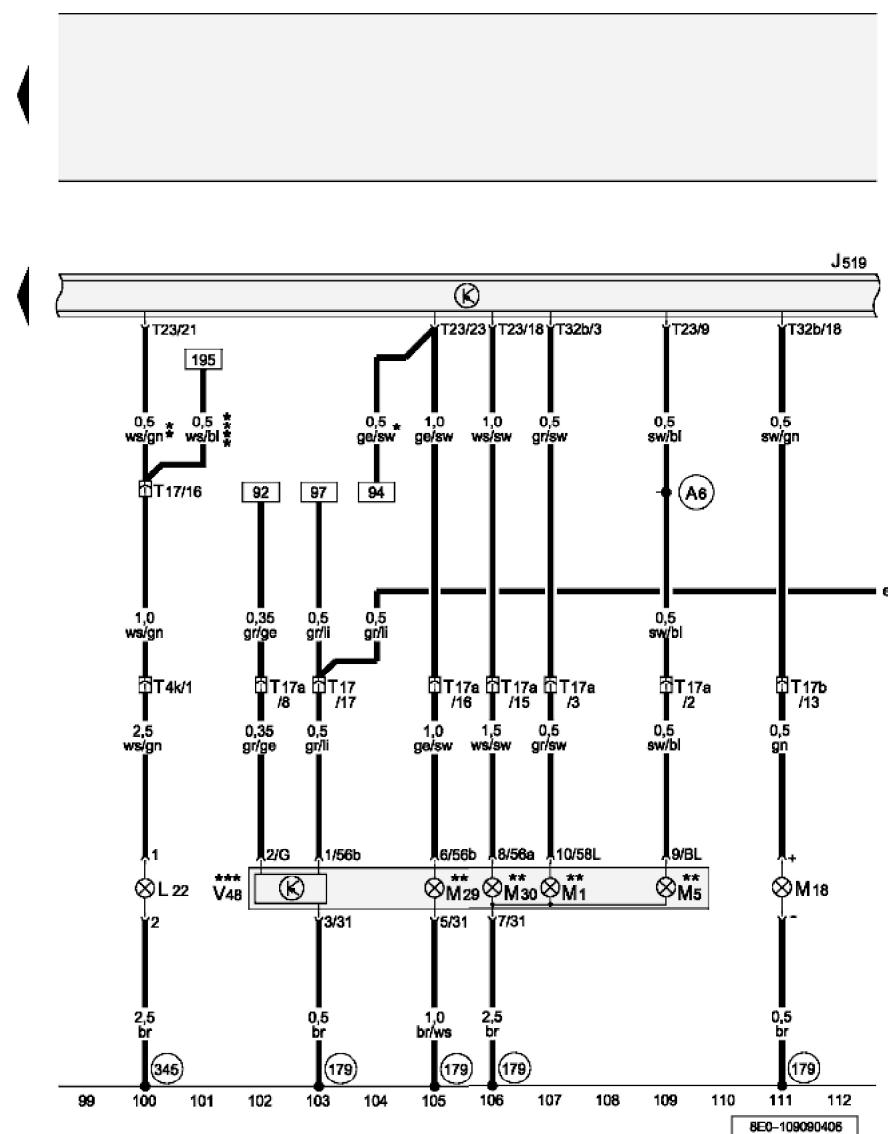
No. 109 / 8



## Audi A4

## Current Flow Diagram

No. 109 / 9



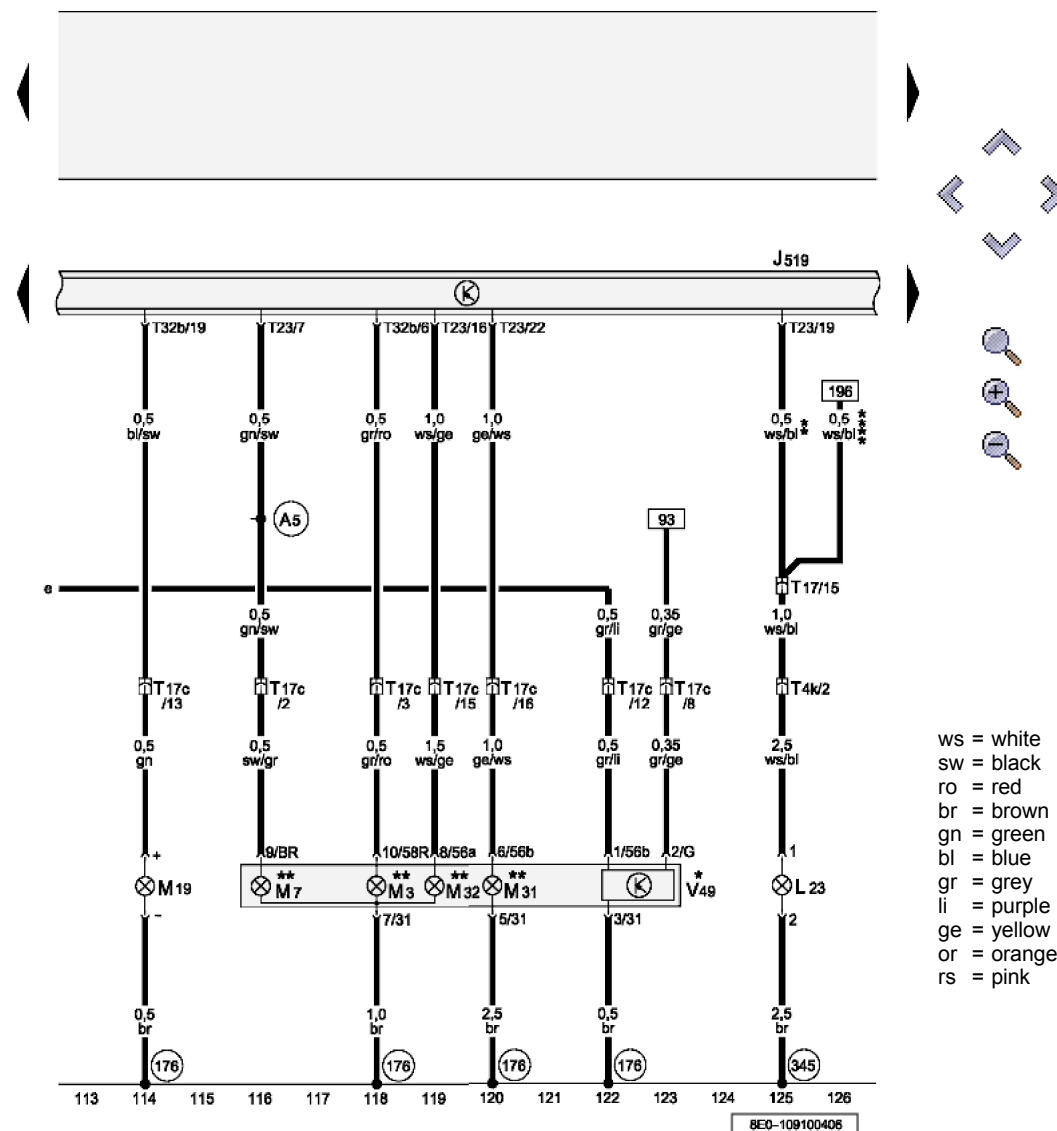
### Left headlight

- J519 - Onboard supply control unit
- L22 - Left fog light bulb
- M1 - Left side light bulb
- M5 - Front left turn signal bulb
- M18 - Left side mounted turn signal bulb
- M29 - Left dipped beam bulb
- M30 - Left main beam bulb
- T4k - 4-pin connector, black, near front bumper
- T17 - 17-pin connector, black, coupling station on left of A-pillar
- T17a - 17-pin connector, red, coupling station on left of A-pillar
- T17b - 17-pin connector, green, coupling station on left of A-pillar
- T23 - 23-pin connector, black, on onboard supply control unit
- T32b - 32-pin connector, grey, on onboard supply control unit
- V48 - Left headlight range control motor
- 179 - Earth connection, in left headlight wiring harness
- 345 - Earth connection, in bumper wiring harness
- A6 - Positive connection (left turn signal), in dash panel wiring harness
- \* - for models without headlight range control only
- \*\* - for models with headlights highline, headlights lowline only, ⇒ applicable Current Flow Diagram
- \*\*\* - for models with headlight range control only
- \*\*\*\* - ⇒ applicable Current Flow Diagram for headlight lowline

## Audi A4

## Current Flow Diagram

No. 109 / 10



## Right headlight

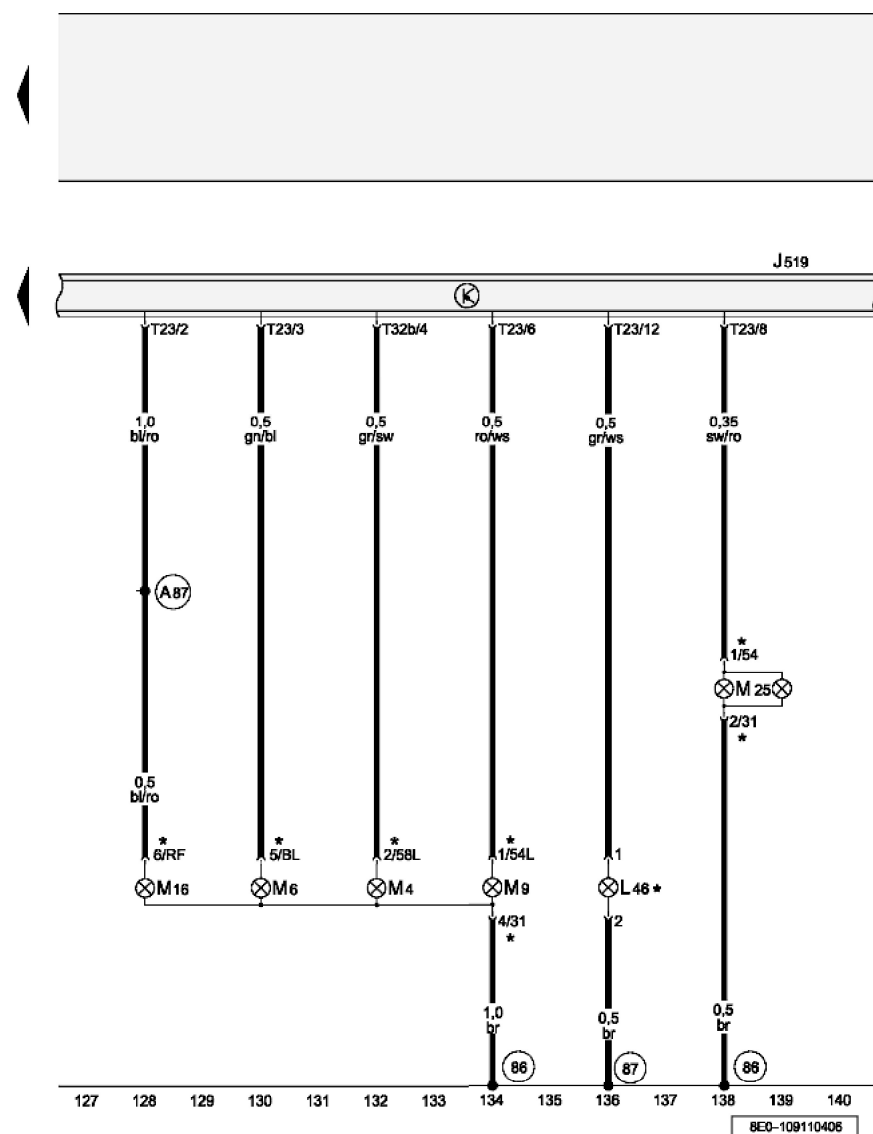
- J519 - Onboard supply control unit
- L23 - Right fog light bulb
- M3 - Right side light bulb
- M7 - Front right turn signal bulb
- M19 - Right side mounted turn signal bulb
- M31 - Right dipped beam bulb
- M32 - Right main beam bulb
- T4k - 4-pin connector, black, near front bumper
- T17 - 17-pin connector, black, coupling station on left of A-pillar
- T17c - 17-pin connector, red, coupling station on right of A-pillar
- T23 - 23-pin connector, black, on onboard supply control unit
- T32b - 32-pin connector, grey, on onboard supply control unit
- V49 - Right headlight range control motor
- 176 - Earth connection, in right headlight wiring harness
- 345 - Earth connection, in bumper wiring harness
- A5 - Positive connection (right turn signal), in dash panel wiring harness
- \* - for models with headlight range control only
- \*\* - for models with headlights highline, headlights lowline only, ⇒ applicable Current Flow Diagram
- \*\*\*\* - ⇒ applicable Current Flow Diagram for headlight lowline

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

## Audi A4

## Current Flow Diagram

No. 109 / 11



### Left reversing lights

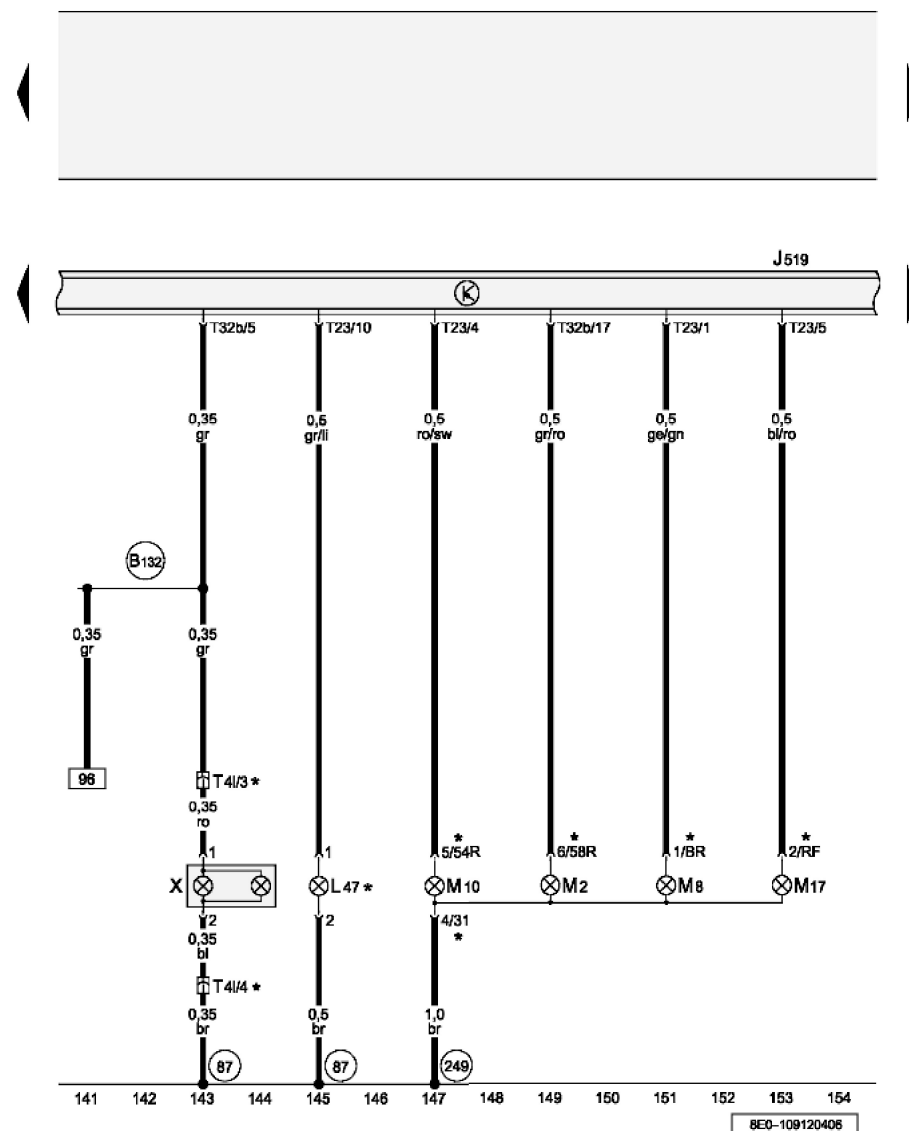
- J519 - Onboard supply control unit
- L46 - Rear left fog light bulb
- M4 - Left tail light bulb
- M6 - Rear left turn signal bulb
- M9 - Left brake light bulb
- M16 - Left reversing light bulb
- M25 - High level brake light bulb
- T23 - 23-pin connector, black, on onboard supply control unit
- T32b - 32-pin connector, grey, on onboard supply control unit
- 86 - Earth connection 1, in rear wiring harness
- A87 - Connection (RL), in dash panel wiring harness
- \* - for Avant models, ⇒ see applicable Current Flow Diagram: Avant models, rear

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

## Audi A4

## Current Flow Diagram

No. 109 / 12



## Right reversing lights

- J519 - Onboard supply control unit
- L47 - Rear right fog light bulb
- M2 - Right tail light bulb
- M8 - Rear right turn signal bulb
- M10 - Right brake light bulb
- M17 - Right reversing light bulb
- T4l - 4-pin connector, black, in rear lid
- T23 - 23-pin connector, black, on onboard supply control unit
- T32b - 32-pin connector, grey, on onboard supply control unit
- X - Number plate light
- 87 - Earth connection 2, in rear wiring harness
- 249 - Earth connection 2, in interior wiring harness
- B132 - Connection (number plate lights), in interior wiring harness
- \* - for Avant models, => see applicable Current Flow Diagram: Avant models, rear

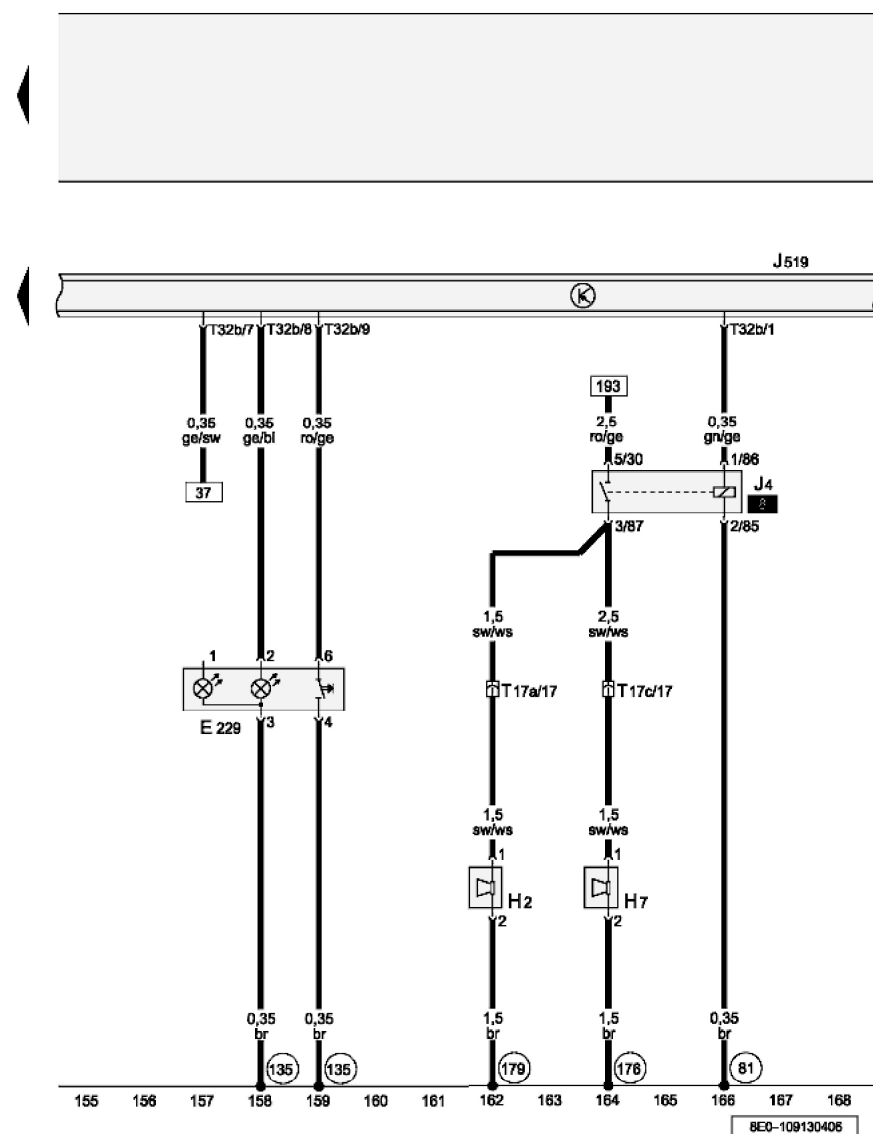
ws = white  
 sw = black  
 ro = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = purple  
 ge = yellow  
 or = orange  
 rs = pink

## Audi A4



## Current Flow Diagram

No. 109 / 13





### Hazard warning lights button, treble tone horn, bass tone horn

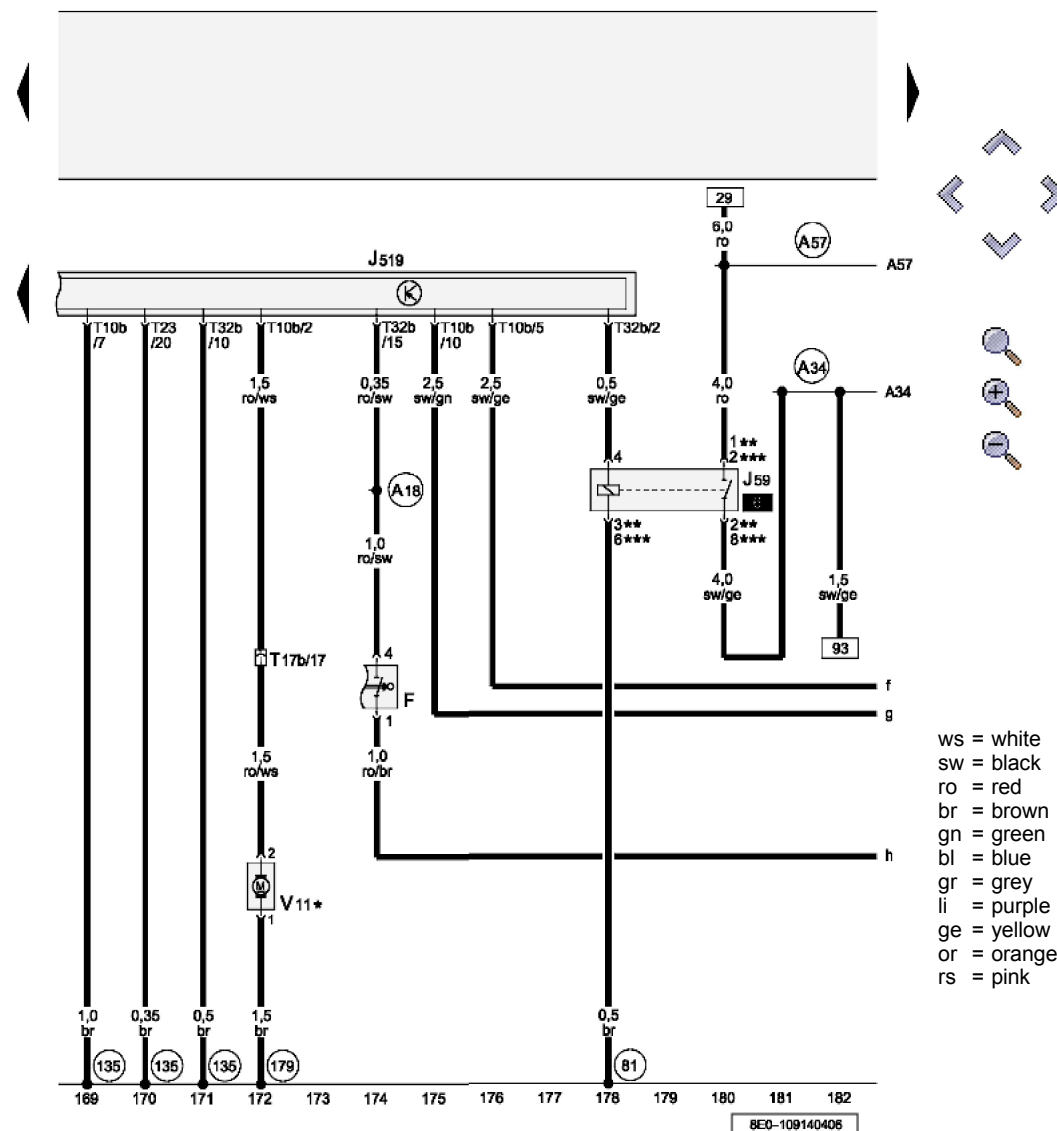
- E229 - Hazard warning lights button
- H2 - Treble tone horn
- H7 - Bass tone horn
- J4 - Dual tone horn relay 
- J519 - Onboard supply control unit 
- T17a - 17-pin connector, red, coupling station on left of A-pillar
- T17c - 17-pin connector, red, coupling station on right of A-pillar
- T32b - 32-pin connector, grey, on onboard supply control unit
- 81 - Earth connection 1, in dash panel wiring harness
- 135 - Earth connection 2, in dash panel wiring harness
- 176 - Earth connection, in right headlight wiring harness
- 179 - Earth connection, in left headlight 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 A4

## Current Flow Diagram

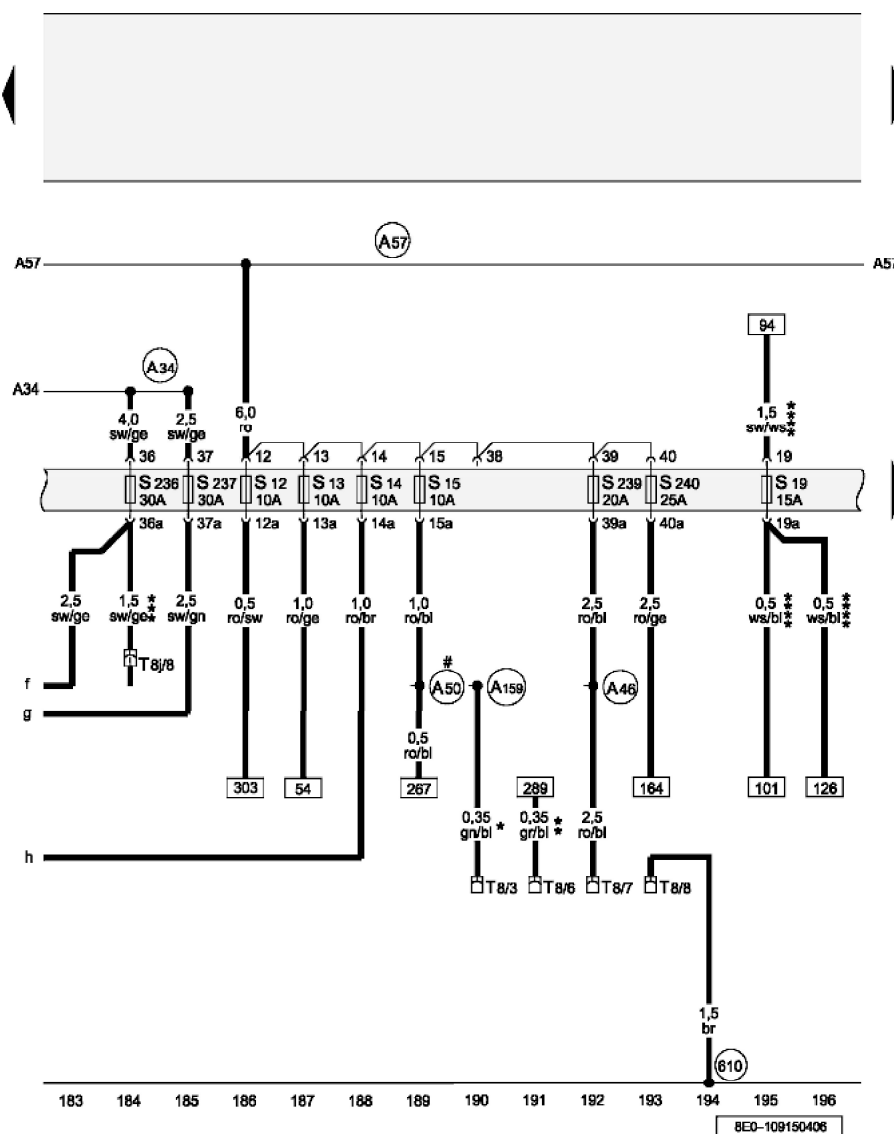
No. 109 / 14



## Audi A4

## Current Flow Diagram

No. 109 / 15



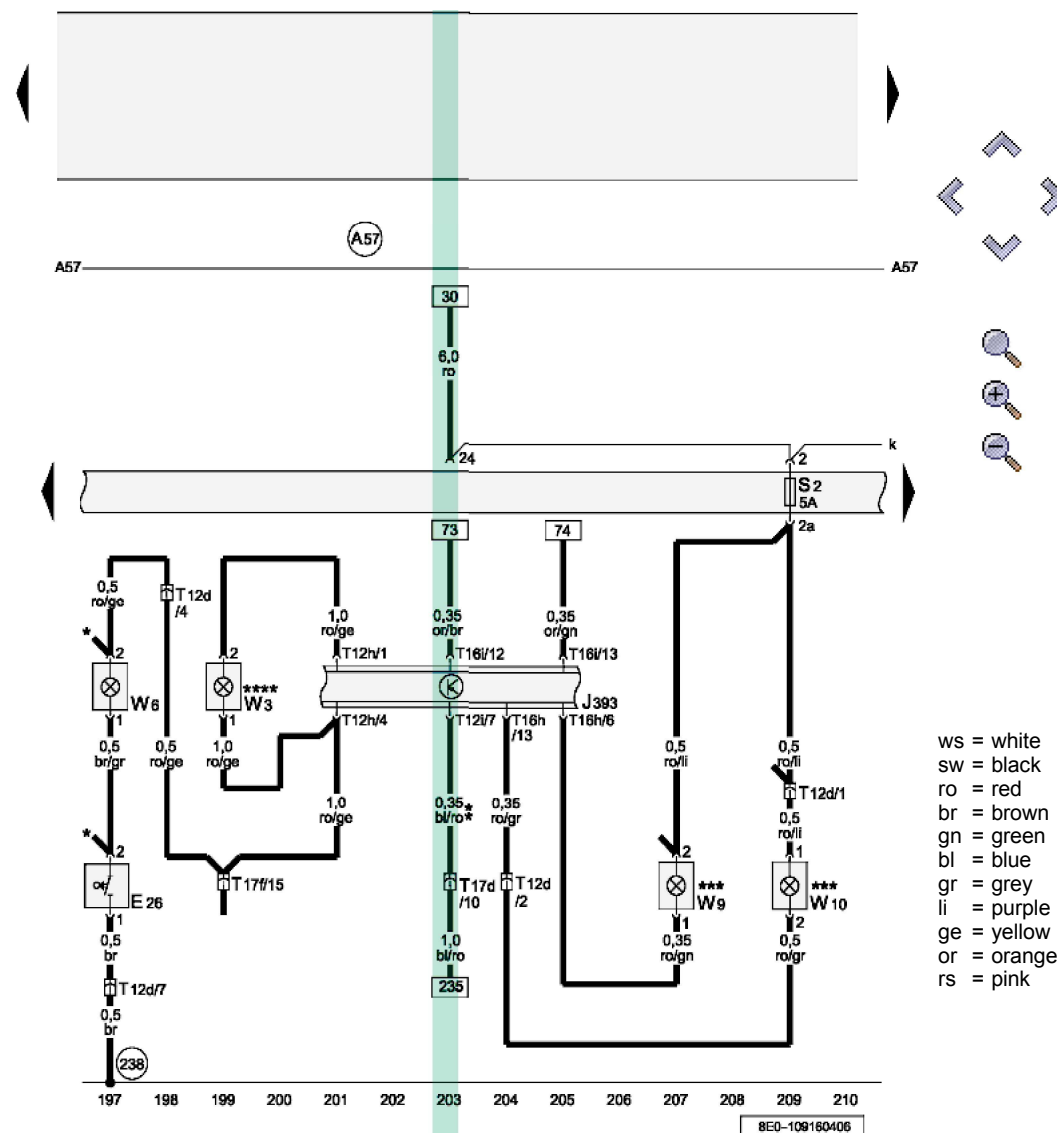
### Fuses, radio connector III

- S12 - Fuse in relay plate fuse holder
  - S13 - Fuse in relay plate fuse holder
  - S14 - Fuse in relay plate fuse holder
  - S15 - Fuse in relay plate fuse holder
  - S19 - Fuse in relay plate fuse holder
  - S236 - Fuse in fuse holder
  - S237 - Fuse in fuse holder (headlight washer system)
  - S239 - Fuse in fuse holder
  - S240 - Fuse in fuse holder
  - T8 - 8-connector, black, radio connector III
  - T8j - 8-pin connector, black, behind side trim on rear left
  - 610 - Earth point (audio), under centre console, front
- 
- A34 - Connection (75x), in dash panel wiring harness
  - A46 - Positive connection (30 - from radio), in dash panel wiring harness
  - A50 - Positive connection (30as), in dash panel wiring harness
  - A57 - Positive connection 3 (30), in dash panel wiring harness
  - A159 - Connection (L), in dash panel wiring harness
- 
- \* - for models with radio chorus, concert or symphony only
  - \*\* - for models with preparation for radio only
  - \*\*\* - for Avant models, ⇒ see applicable Current Flow Diagram: Avant models, rear
  - \*\*\*\* - ⇒ applicable Current Flow Diagram for headlight lowline
  - # - No longer fitted, phased-in modification

## Audi A4

## Current Flow Diagram

No. 109 / 16

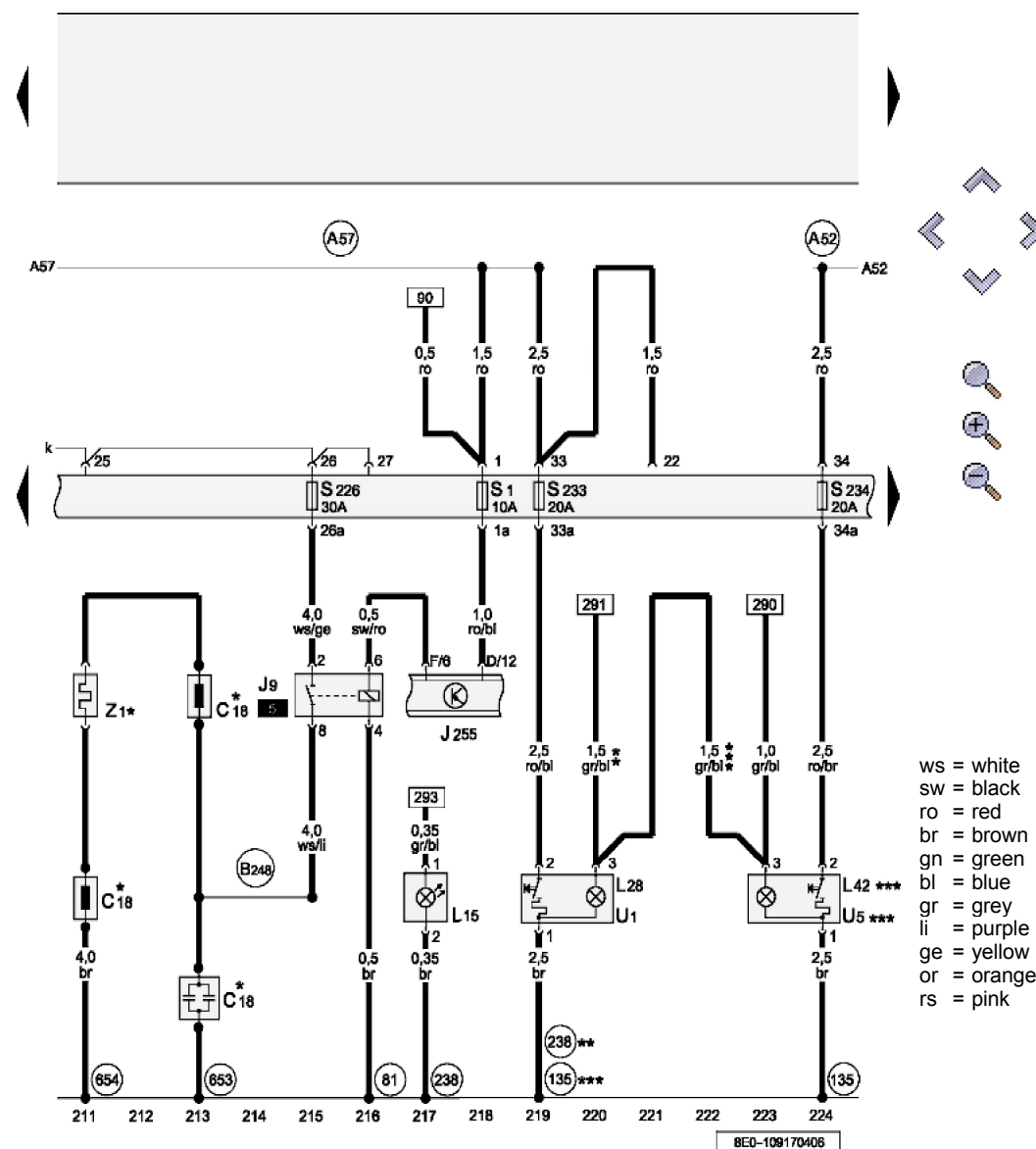
**Glove compartment light, footwell lights**

- E26 - Glove compartment light switch
- J393 - Convenience system central control unit
- S2 - Fuse in relay plate fuse holder
- T12d - 12-pin connector, brown, near glove compartment
- T12h - 12-pin connector, black, on convenience system central control unit
- T12i - 12-pin connector, black, on convenience system central control unit
- T16h - 16-pin connector, black, on convenience system central control unit
- T16i - 16-pin connector, brown, on convenience system central control unit
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- T17f - 17-pin connector, orange, coupling station on left of A-pillar
- W3 - Luggage compartment light
- W6 - Glove compartment light
- W9 - Left footwell light
- W10 - Right footwell light
- 238 - Earth connection 1, in interior wiring harness
- A57 - Positive connection 3 (30), in dash panel wiring harness
- \* - for models with key operated switch to deactivate airbag only
- \*\* - for models with manual gearbox (not for all engine versions) only
- \*\*\* - for models without 'light equipment' only
- \*\*\*\* - for Avant models ⇒ see applicable Current Flow Diagram: Avant models, rear

## Audi A4

## Current Flow Diagram

No. 109 / 17



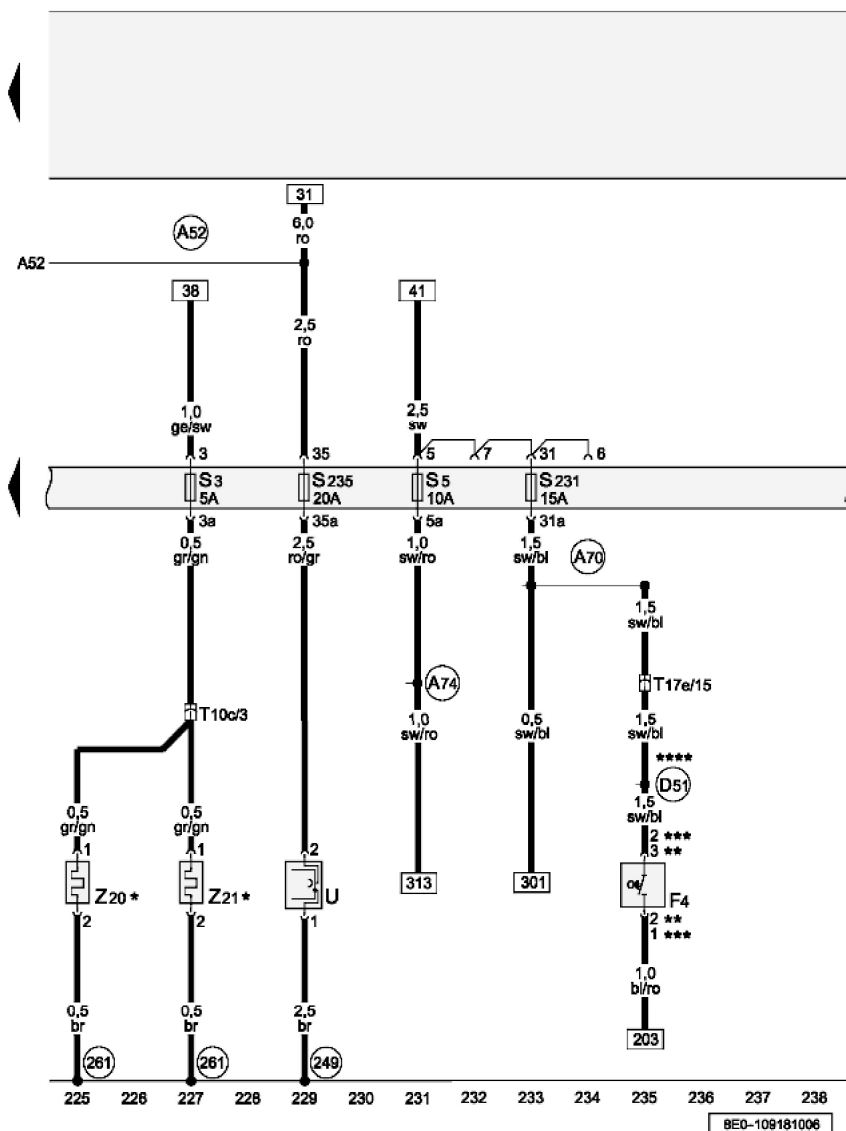
### Heated rear window, 12 V socket

- C18 - Window aerial suppression filter
- J9 - Heated rear window relay
- J255 - Climatronic control unit
- L15 - Ashtray illumination bulb
- L28 - Cigarette lighter illumination bulb
- L42 - Socket illumination bulb
- S1 - Fuse in relay plate fuse holder
- S226 - Fuse in fuse holder
- S233 - Fuse in fuse holder
- S234 - Fuse in fuse holder
- U1 - Cigarette lighter
- U5 - 12 V socket
- Z1 - Heated rear window
- 81 - Earth connection 1, in dash panel wiring harness
- 135 - Earth connection 2, in dash panel wiring harness
- 238 - Earth connection 1, in interior wiring harness
- 653 - Earth point, left D-pillar
- 654 - Earth point, right D-pillar
- A52 - Positive connection 2 (30), in dash panel wiring harness
- A57 - Positive connection 3 (30), in dash panel wiring harness
- B248 - Connection 2 (heated rear window), in interior wiring harness
- \* - for Avant models, ⇒ see applicable Current Flow Diagram: Avant models, rear
- \*\* - for models without 12 V socket only
- \*\*\* - for models with 12 V socket only

## Audi A4

## Current Flow Diagram

No. 109 / 18



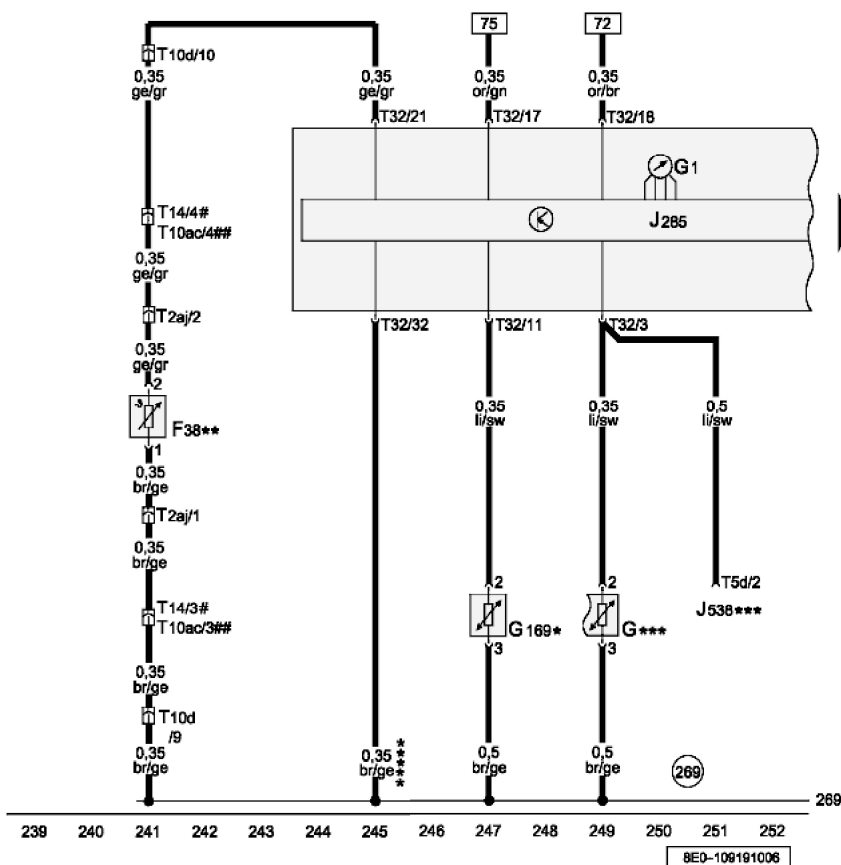
## Reversing light switch, electric socket, washer jet heater element

- F4 - Reversing light switch
- S3 - Fuse in relay plate fuse holder
- S5 - Fuse in relay plate fuse holder
- S231 - Fuse in fuse holder
- S235 - Fuse in fuse holder
- T10c - 10-pin connector, violet, coupling station on left of A-pillar
- T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
- U - Electric socket
- Z20 - Left washer jet heater element
- Z21 - Right washer jet heater element
- 249 - Earth connection 2, in interior wiring harness
- 261 - Earth connection, in heated washer jet wiring harness
- A52 - Positive connection 2 (30), in dash panel wiring harness
- A70 - Connection (15a, fuse 231), in dash panel wiring harness
- A74 - Connection (15a, fuse 5), in dash panel wiring harness
- D51 - Positive connection 1 (15), in engine compartment wiring harness
- \* - for models with washer jet heater element only
- \*\* - for models with 5-speed manual gearbox only
- \*\*\* - for models with 6-speed manual gearbox only
- \*\*\*\* - Not applicable for all engine versions, ⇒ applicable engine Current Flow Diagram

## Audi A4


## Current Flow Diagram

No. 109 / 19



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

### Control unit in dash panel insert, ambient temperature switch, fuel gauge sender, fuel gauge

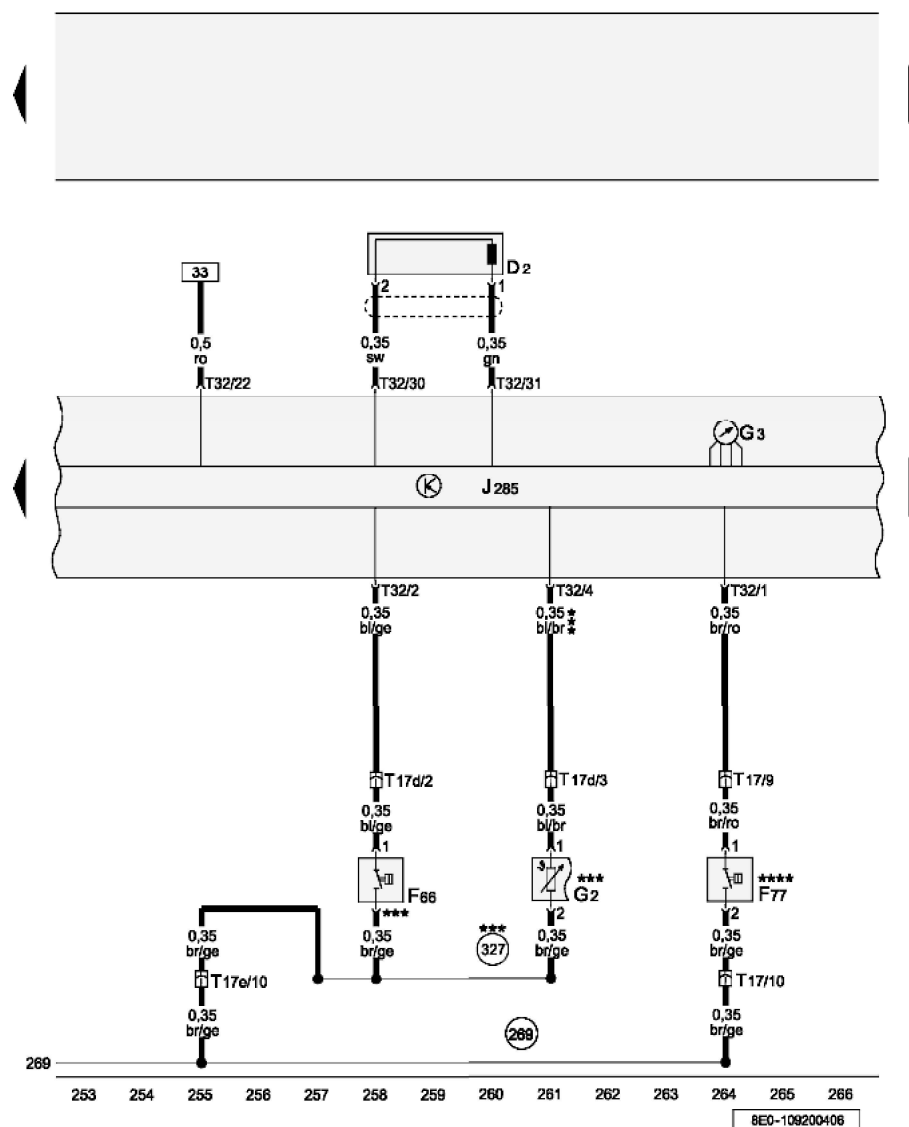
- F38 - Ambient temperature switch
- G - Fuel gauge sender
- G1 - Fuel gauge
- G169 - Fuel gauge sender 2
- J285 - Control unit in dash panel insert 
- J538 - Fuel pump control unit
- T2aj - 2-pin connector, black, in front engine compartment
- T5d - 5-pin connector, black, near fuel pump
- T10ac - 10-pin connector, black, in left engine compartment
- T10d - 10-pin connector, grey, coupling station on left of A-pillar
- T14 - 14-pin connector, black, on left in engine compartment
- T32 - 32-pin connector, blue, on dash panel insert
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness

- \* - for models with four-wheel drive only
- \*\* - For engine code BNS only
- \*\*\* - Not applicable for all engine versions, ⇒ applicable engine Current Flow Diagram
- \*\*\*\*\* - output for signal earth
- # - applicable up to model year 2006
- ## - applicable from model year 2007

## Audi A4

## Current Flow Diagram

No. 109 / 20

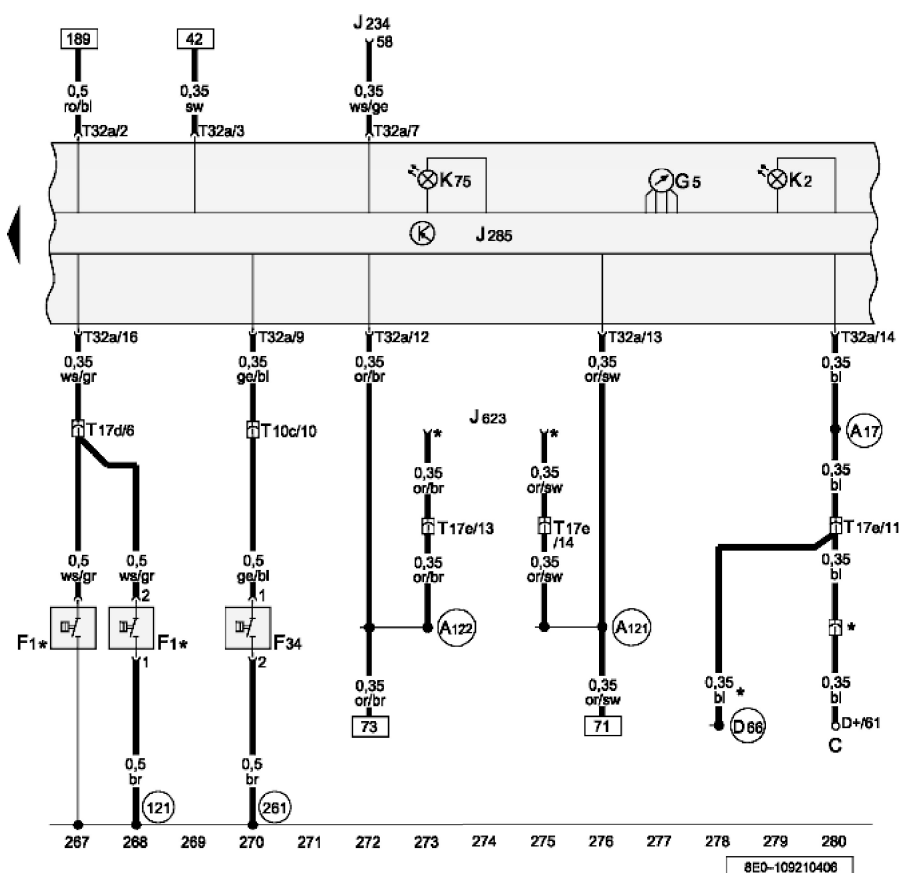


## Audi A4

## Current Flow Diagram

No. 109 / 21





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

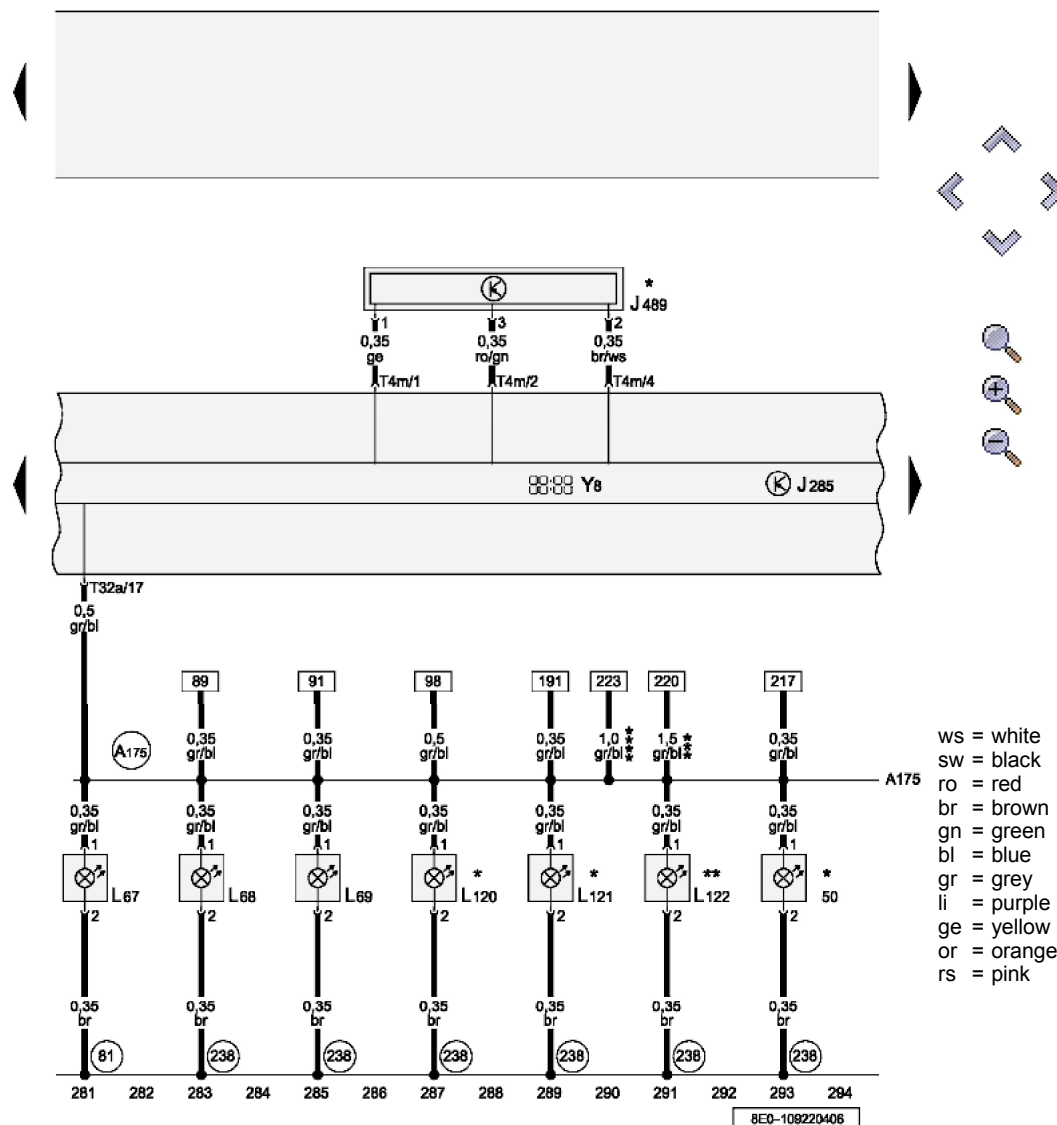
### Oil pressure switch, rev. counter

- C - Alternator
- F1 - Oil pressure switch
- F34 - Brake fluid level warning contact
- G5 - Rev. counter
- J234 - Airbag control unit
- J285 - Control unit in dash panel insert
- J623 - Engine control unit
- K2 - Alternator warning lamp
- K75 - Airbag warning lamp
- T10c - 10-pin connector, violet, coupling station on left of A-pillar
- T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
- T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
- T32a - 32-pin connector, green, on dash panel insert
- 121 - Earth connection 2, in front right wiring harness
- 261 - Earth connection, in heated washer jet wiring harness
- A17 - Connection (61), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- D66 - Positive connection (61), in engine compartment wiring harness
- \* - ⇒ applicable engine Current Flow Diagram

## Audi A4

## Current Flow Diagram

No. 109 / 22



## Dash panel vent illumination bulb, radio controlled clock

- J285 - Control unit in dash panel insert
- J489 - Radio controlled clock receiver
- L50 - Rear centre ashtray illumination bulb
- L67 - Dash panel left vent illumination bulb
- L68 - Dash panel central vent illumination bulb
- L69 - Dash panel right vent illumination bulb
- L120 - Storage compartment illumination bulb
- L121 - Cup holder illumination bulb
- L122 - Coin holder illumination bulb
- T4m - 4-pin connector, black, on dash panel insert
- T32a - 32-pin connector, green, on dash panel insert
- Y8 - Radio controlled clock
- 81 - Earth connection 1, in dash panel wiring harness

238 - Earth connection 1, in interior wiring harness

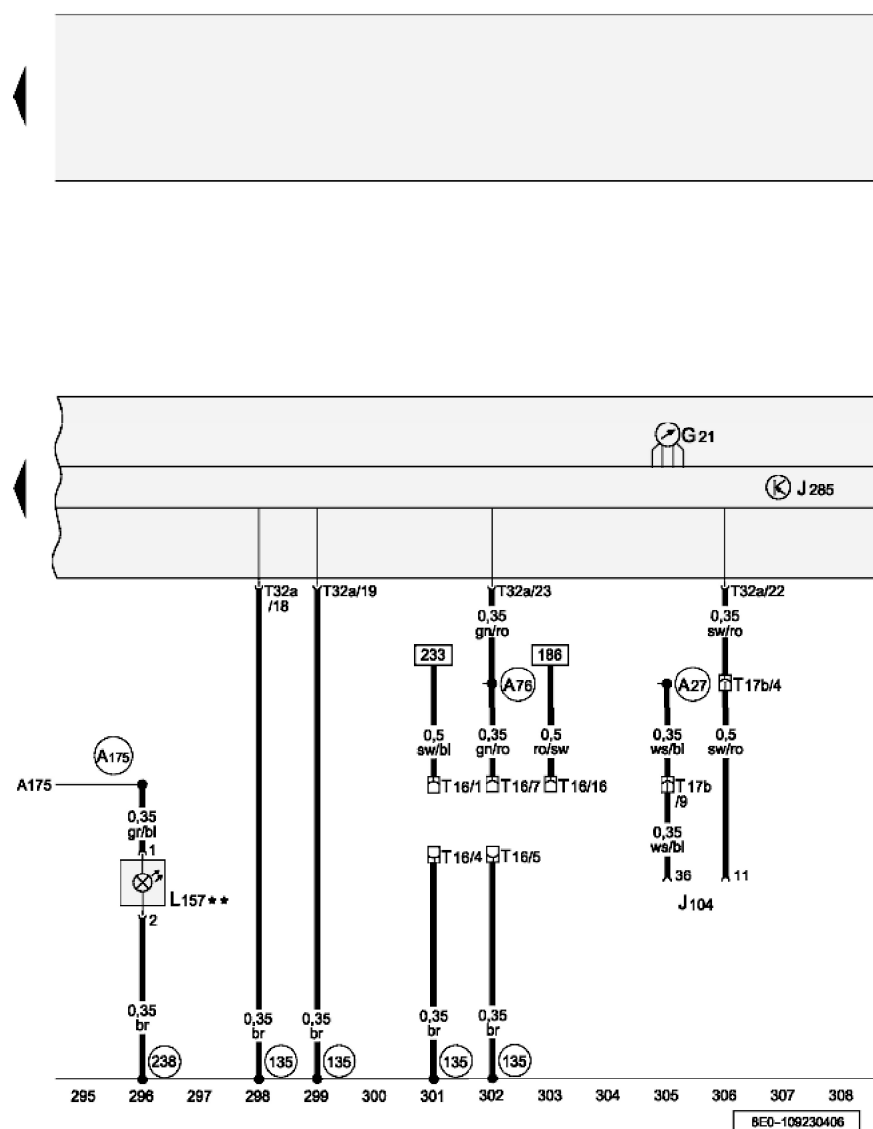
A175 - Connection (58s), in dash panel wiring harness

- \* - Depends on equipment
- \*\* - not for models with front parking aid
- \*\*\* - for models without 12 V socket only
- \*\*\*\* - for models with 12 V socket only

## Audi A4

## Current Flow Diagram

No. 109 / 23



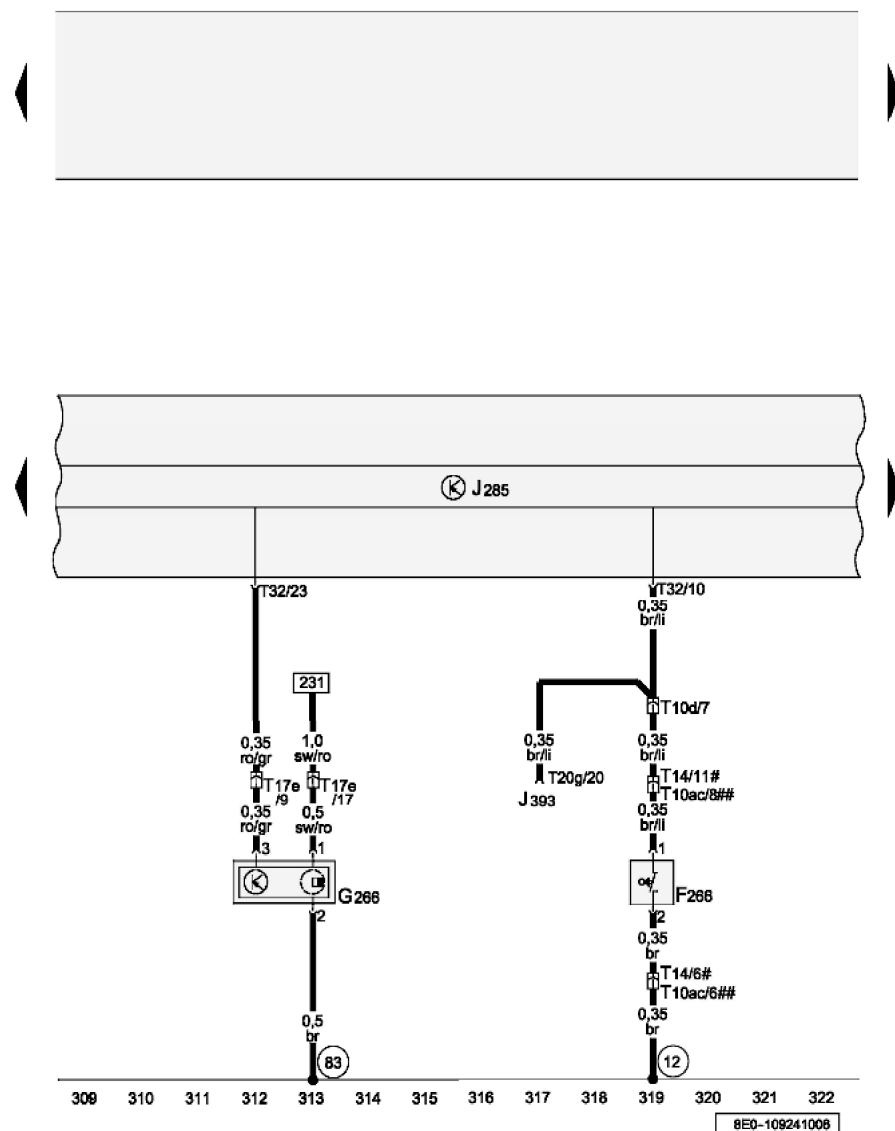
### Diagnostic connector, speedometer, illuminated centre armrest

- G21 - Speedometer
- J104 - ABS control unit
- J285 - Control unit in dash panel insert
- L157 - Illuminated centre armrest
- T16 - 16-pin connector, black, diagnostic connector
- T17b - 17-pin connector, green, coupling station on left of A-pillar
- T32a - 32-pin connector, green, on dash panel insert
- 135 - Earth connection 2, in dash panel wiring harness
- 238 - Earth connection 1, in interior wiring harness
- A27 - Connection (speed signal), in dash panel wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- A175 - Connection (58s), in dash panel wiring harness
- \*\* - for models with centre armrest only

## Audi A4

## Current Flow Diagram

No. 109 / 24



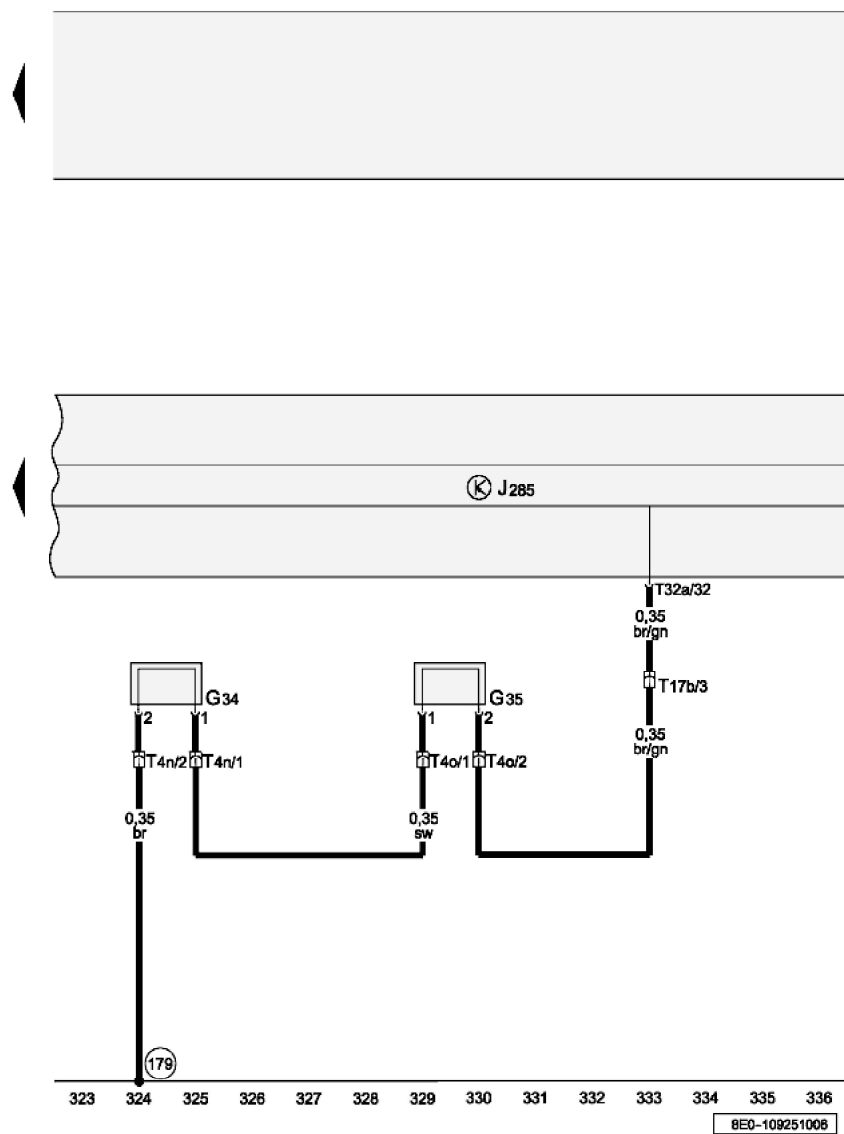
## Bonnet contact switch, oil level and oil temperature sender

- F266 - Bonnet contact switch
- G266 - Oil level and oil temperature sender
- J285 - Control unit in dash panel insert
- J393 - Convenience system central control unit
- T10d - 10-pin connector, grey, coupling station on left of A-pillar
- T10ac - 10-pin connector, black, in left engine compartment
- T14 - 14-pin connector, black, on left in engine compartment
- T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
- T20g - 20-pin connector, red, on convenience system central control unit
- T32 - 32-pin connector, blue, on dash panel insert
- 12 - Earth point, on left in engine compartment
- 83 - Earth connection 1, in front right wiring harness
- # - applicable up to model year 2006
- ## - applicable from model year 2007


## Audi A4

## Current Flow Diagram

No. 109 / 25



### Brake pad wear sender

- G34 - Front left brake pad wear sender
- G35 - Front right brake pad wear sender
- J285 - Control unit in dash panel insert 
- T4n - 4-pin connector, black, front left
- T4o - 4-pin connector, black, front right
- T17b - 17-pin connector, green, coupling station on left of A-pillar
- T32a - 32-pin connector, green, on dash panel insert
- 179 - Earth connection, in left headlight wiring harness

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