

# Audi A8

## Current Flow Diagram

No. 109 / 1

Edition 08.2007

### **Headlight for gaseous discharge light (Xenon, Bixenon), cornering lights and automatic headlight range control**

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!

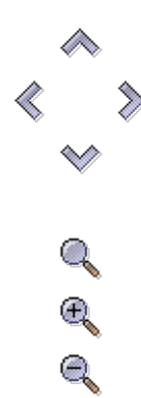
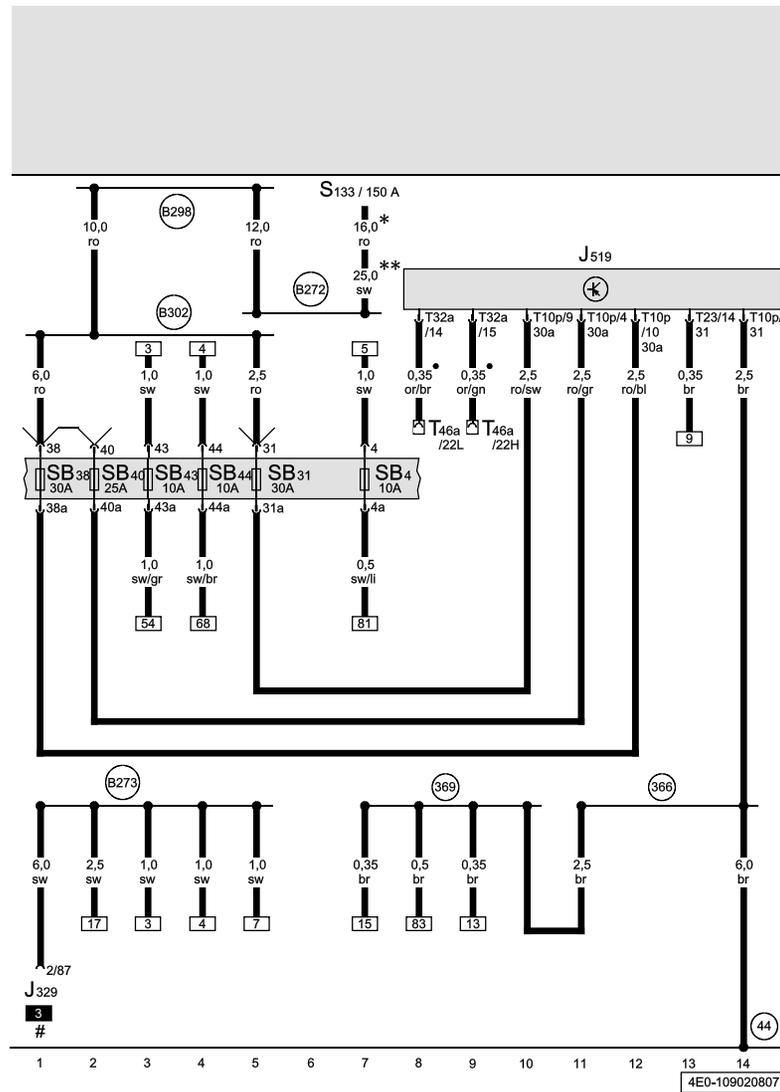
For information concerning

- ◆ Fault Finding Programs
- guided fault finding

# Audi A8

## Current Flow Diagram

# No. 109 / 2



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

### Onboard supply control unit, terminal 15 voltage supply relay, fuses

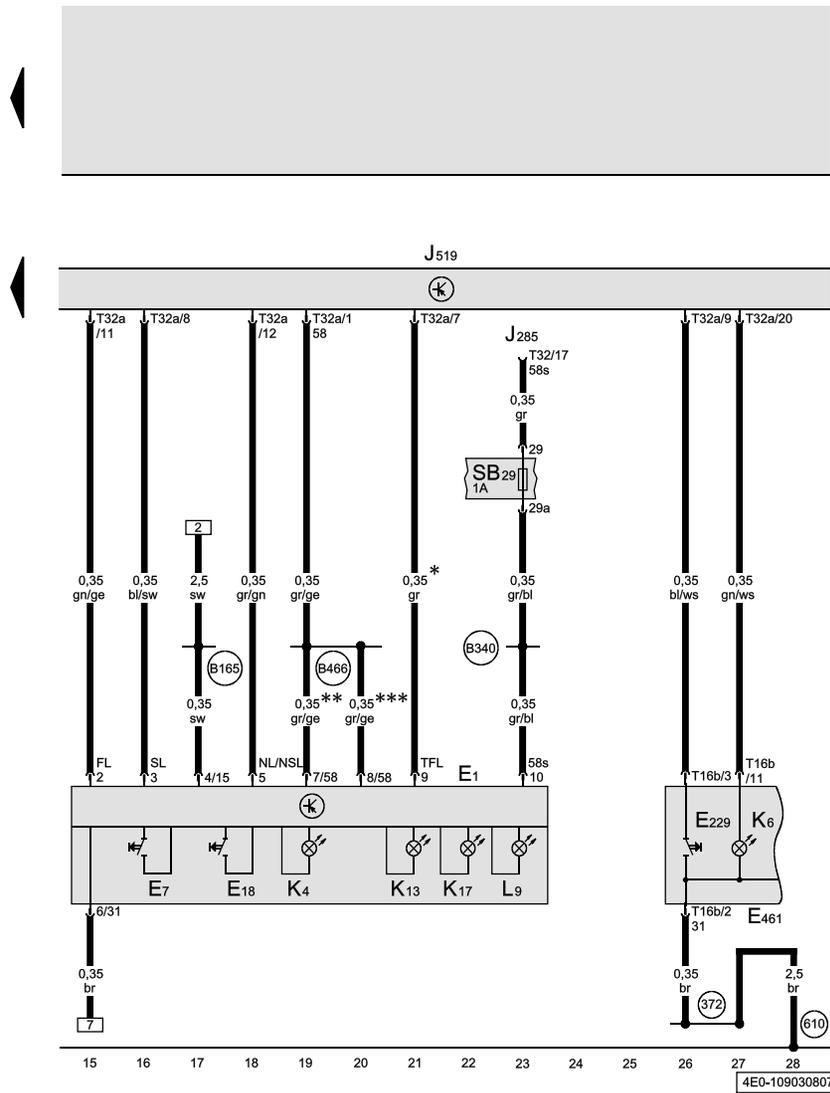
- J329 - Terminal 15 voltage supply relay
- J519 - Onboard supply control unit
- S133 - Fuse 3, 150 A, in luggage compartment, rear right
- SB4 - Fuse 4 on fuse holder B
- SB31 - Fuse 31 on fuse holder B
- SB38 - Fuse 38 on fuse holder B
- SB40 - Fuse 40 on fuse holder B
- SB43 - Fuse 43 on fuse holder B
- SB44 - Fuse 44 on fuse holder B
- T10p - 10-pin connector, black, connector A, on onboard power supply control unit
- T23 - 23-pin connector, black, connector B, on onboard power supply control unit
- T32a - 32-pin connector, connector C, on onboard supply control unit
- T46a - 46-pin connector, black, CAN separating connector left
- 44 - Earth point, lower part of left A-pillar
- 366 - Earth connection 1, in main wiring harness
- 369 - Earth connection 4, in main wiring harness
- B272 - Positive connection (30), in main wiring harness
- B273 - Positive connection (15), in main wiring harness
- B298 - Positive connection 2 (30), in main wiring harness
- B302 - Positive connection 6 (30), in main wiring harness
- - CAN bus (data wire)
- \* - models with petrol engines
- \*\* - models with diesel engines
- # - Relay and fuse carrier behind left dash panel

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# Audi A8

## Current Flow Diagram

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### Onboard power supply control unit, light switch, fog light switch, rear fog light switch, illumination bulb light switch

- E1 - Light switch
- E7 - Fog light switch
- E18 - Rear fog light switch
- E229 - Hazard warning lights button
- E461 - Operating unit in front of centre console
- J285 - Control unit in dash panel insert
- J519 - Onboard supply control unit
- K4 - Side light warning lamp
- K6 - Hazard warning light system warning lamp
- K13 - Rear fog light warning lamp
- K17 - Fog light warning lamp
- L9 - Light switch illumination bulb
- SB29 - Fuse 29 on fuse holder
- T16b - 16-pin connector, black, on operating unit in front of centre console
- T32 - 32-pin connector, blue, on dash panel insert
- T32a - 32-pin connector, connector C, on onboard supply control unit
- 372 - Earth connection 7, in main wiring harness
- 610 - Earth point (audio), under centre console, front
- B165 - Positive connection 2 (15), in interior wiring harness
- B340 - Connection 1 (58s), in main wiring harness
- B466 - Connection 2 in main wiring harness
- \* - models with day driving light
- \*\* - up to August 2007
- \*\*\* - from September 2007

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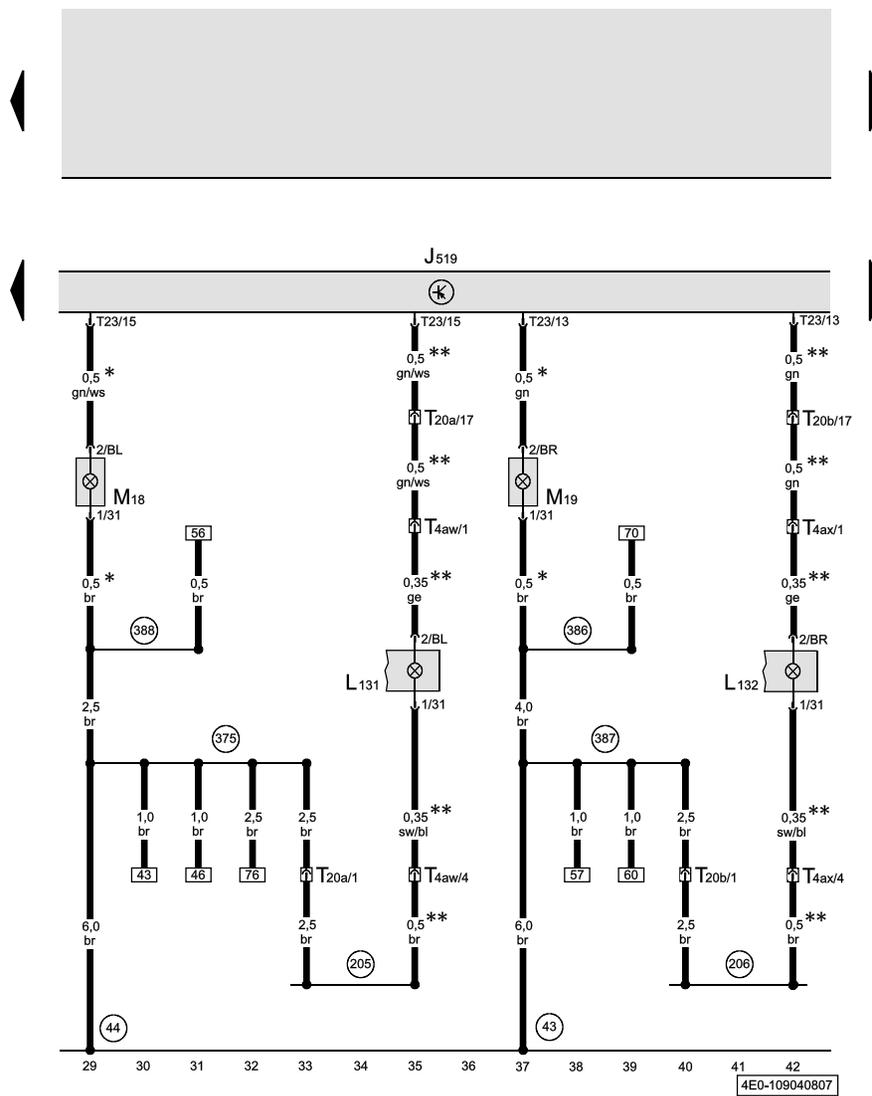
# Audi A8

## Current Flow Diagram

No. 109 / 4

**Onboard supply control unit, driver side and front passenger side exterior mirror turn signal bulb, left and right side repeater turn signal bulb**

- J519 - Onboard supply control unit 
- L131 - Driver side exterior mirror turn signal bulb
- L132 - Front passenger side exterior mirror turn signal bulb
- M18 - Left side mounted turn signal bulb
- M19 - Right side mounted turn signal bulb
- T4aw - 4-pin connector, black, in driver door
- T4ax - 4-pin connector, black, in front passenger door
- T20a - 20-pin connector, black, left A-pillar
- T20b - 20-pin connector, black, right A-pillar
- T23 - 23-pin connector, black, connector B, on onboard power supply control unit
- 43 - Earth point, lower part of right A-pillar 
- 44 - Earth point, lower part of left A-pillar 
- 205 - Earth connection, in driver door wiring harness
- 206 - Earth connection, in door wiring harness, front passenger side
- 366 - Earth connection 1, in main wiring harness
- 375 - Earth connection 10, in main wiring harness
- 387 - Earth connection 22, in main wiring harness
- 388 - Earth connection 23, in main wiring harness
- \* - up to August 2007
- \*\* - from September 2007



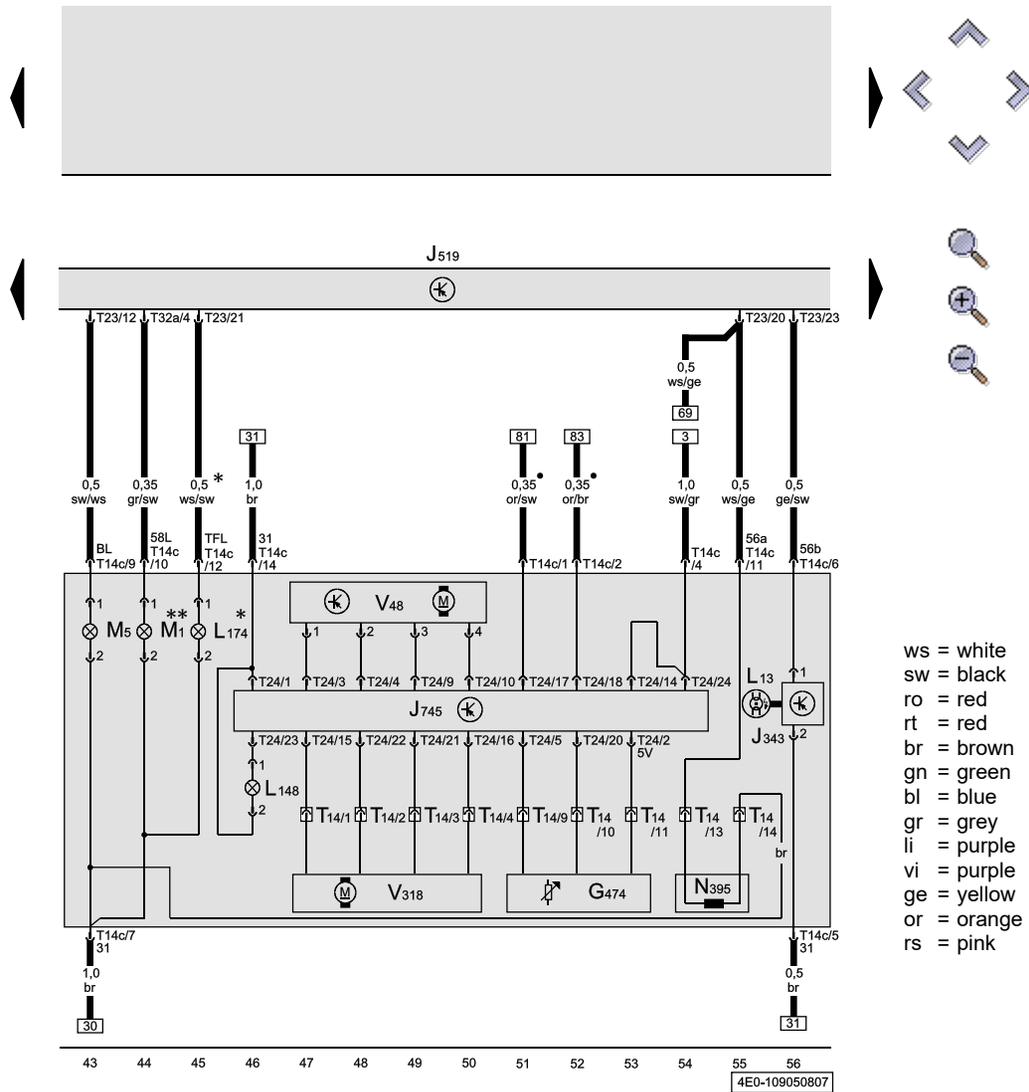
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# Audi A8

## Current Flow Diagram

# No. 109 / 5



### Left headlight, onboard supply control unit, cornering light and headlight range control unit

- G474 - Left swivel module position sensor
- J343 - Left gas discharge light control unit
- J519 - Onboard supply control unit
- J745 - Cornering light and headlight range control unit
- L13 - Left gas discharge (xenon) bulb
- L148 - Left cornering light bulb
- L174 - Left day driving light bulb
- M1 - Left side light bulb
- M5 - Front left turn signal bulb
- N395 - Left headlight screen adjustment solenoid
- T14 - 14-pin connector, in headlight
- T14c - 14-pin connector, black, on left of headlight
- T23 - 23-pin connector, black, connector B, on onboard power supply control unit
- T24 - 24-pin connector, on cornering light and headlight range control unit
- T32a - 32-pin connector, connector C, on onboard supply control unit

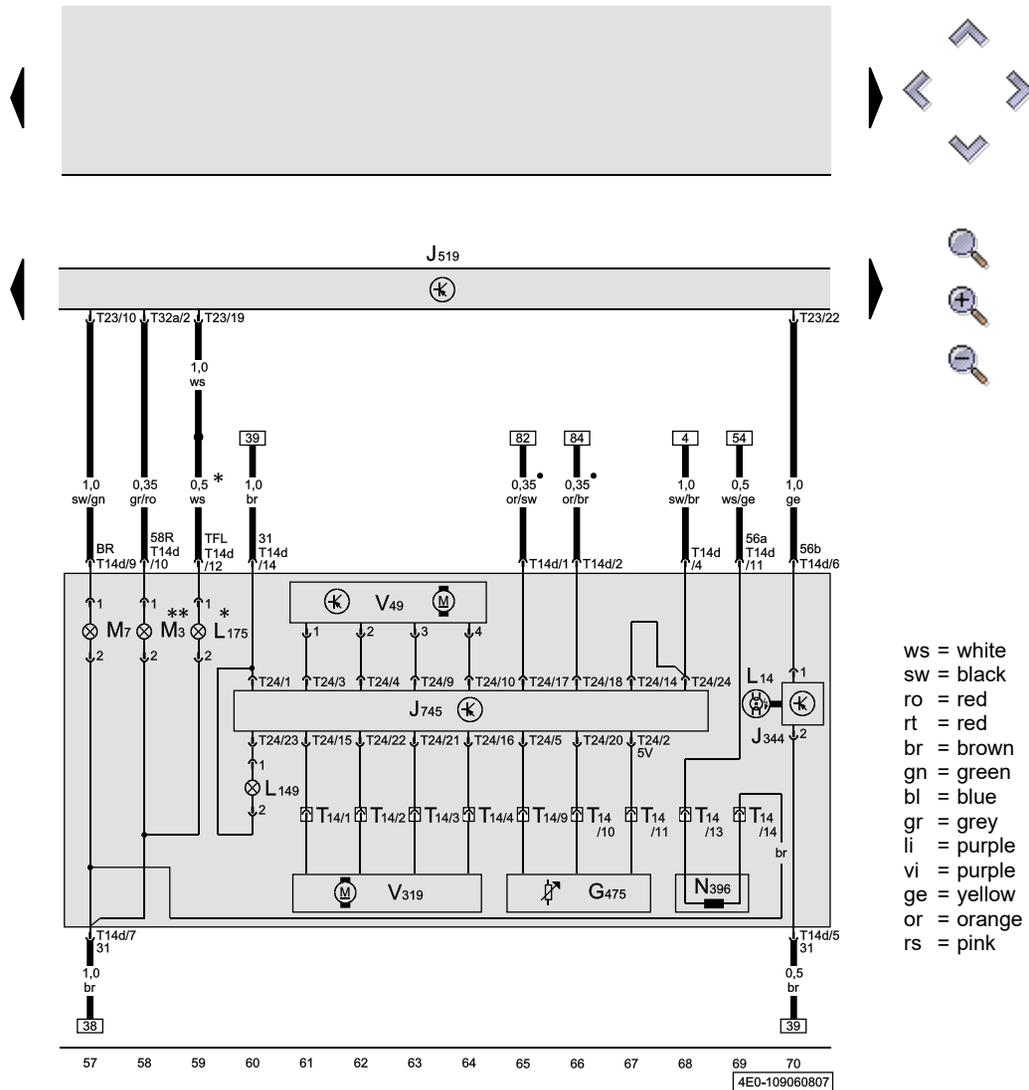
- V48 - Left headlight range control motor
- V318 - Left dynamic cornering light control motor
- - CAN bus (data wire)
- \* - models with day driving light, not 6.0 l engine BHT, BSB
- \*\* - combined LED for M1 and L174, only 6.0 l engine BHT, BSB

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# Audi A8

## Current Flow Diagram

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### Right headlight, onboard supply control unit, cornering light and headlight range control unit

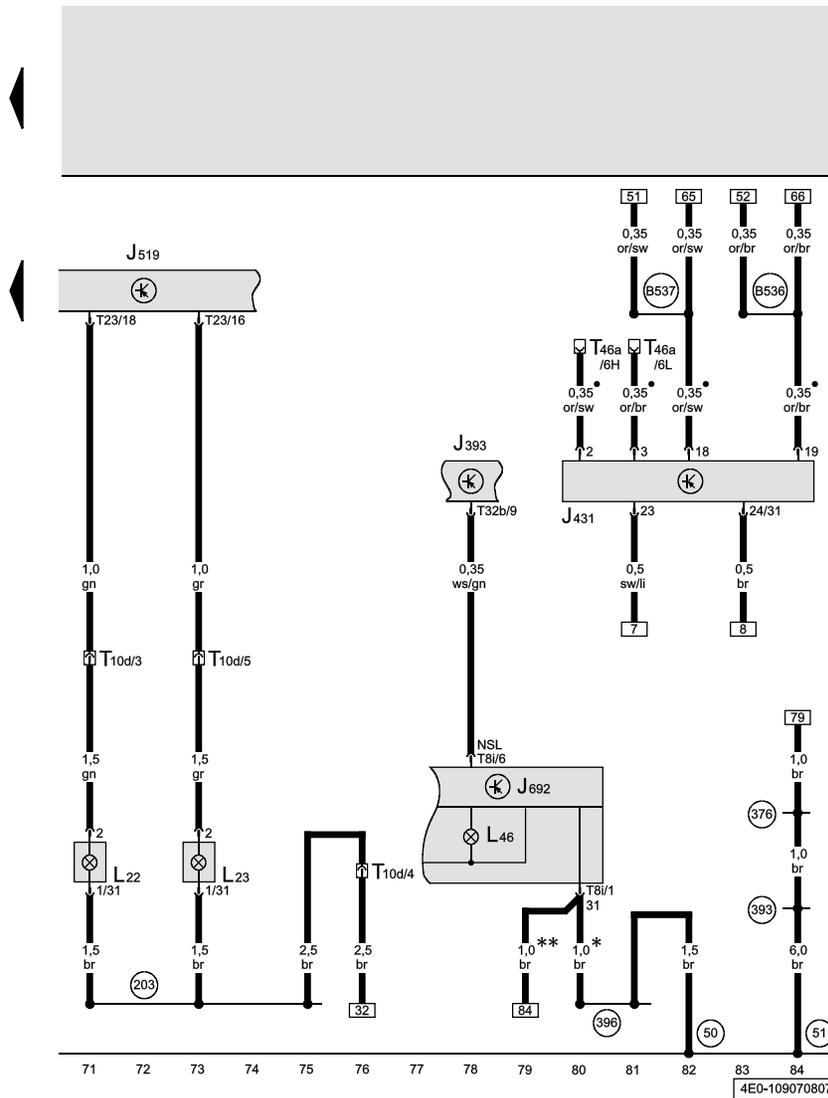
- G475 - Right swivel module position sensor
- J344 - Right gas discharge light control unit
- J519 - Onboard supply control unit
- J745 - Cornering light and headlight range control unit
- L14 - Right gas discharge (xenon) bulb
- L149 - Right cornering light bulb
- L175 - Right day driving light bulb
- M3 - Right side light bulb
- M7 - Front right turn signal bulb
- N396 - Right headlight screen adjustment solenoid
- T14 - 14-pin connector, in headlight
- T14d - 14-pin connector, black, on right of headlight
- T23 - 23-pin connector, black, connector B, on onboard power supply control unit
- T24 - 24-pin connector, on cornering light and headlight range control unit
- T32a - 32-pin connector, connector C, on onboard supply control unit
- V49 - Right headlight range control motor
- V319 - Right dynamic cornering light control motor
- - CAN bus (data wire)
- \* - models with day driving light, not 6.0 l engine BHT, BSB
- \*\* - combined LED for M3 and L175, only 6.0 l engine BHT, BSB

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# Audi A8

## Current Flow Diagram

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### Onboard supply control unit, control unit for headlight range control, left fog light bulb, right fog light bulb

- J393 - Convenience system central control unit
- J431 - Headlight range control, control unit
- J519 - Onboard supply control unit
- J692 - Tail light control unit for lights on left in rear lid
- L22 - Left fog light bulb
- L23 - Right fog light bulb
- L46 - Rear left fog light bulb
- T8i - 8-pin connector, black, connector 2, on left rear fog light, rear lid
- T10d - 10-pin connector, black, in front left engine compartment
- T23 - 23-pin connector, black, connector B, on onboard power supply control unit
- T32b - 32-pin connector, connector B, on convenience system central control unit
- T46a - 46-pin connector, black, CAN separating connector left
- 50 - Earth point, on left in luggage compartment
- 51 - Earth point, on right in luggage compartment
- 203 - Earth connection, in front fog light wiring harness
- 376 - Earth connection 11, in main wiring harness
- 393 - Earth connection 28, in main wiring harness
- 396 - Earth connection 31, in main wiring harness
- B536 - Connection 27 in main wiring harness
- B537 - Connection 28 in main wiring harness
- - CAN bus (data wire)
- \* - up to October 2005
- \*\* - from November 2005

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