



Basic equipment

From March 2008



Audi

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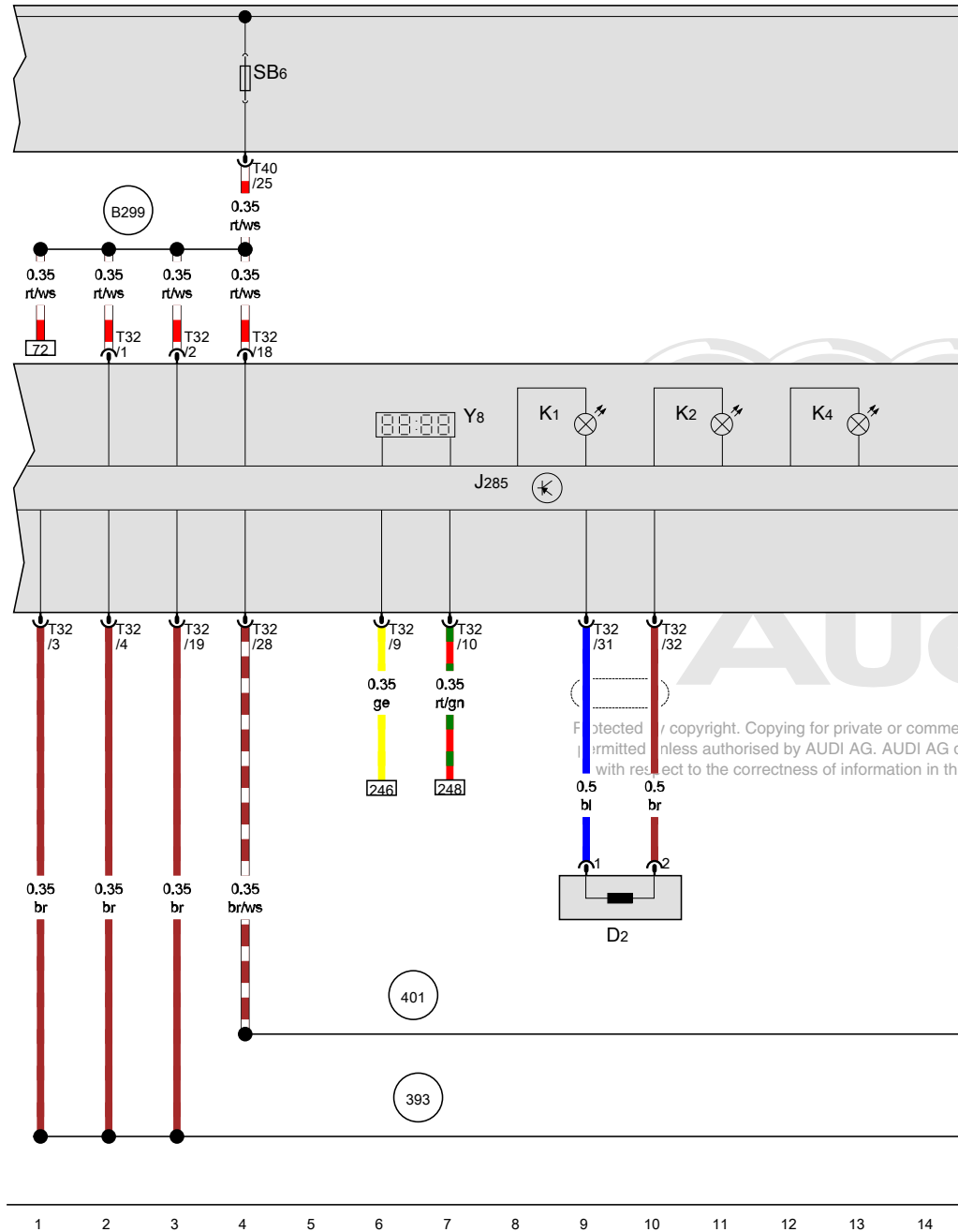
Immobiliser reader coil, Control unit in dash panel insert

- D2 Immobiliser reader coil
- J285 Control unit in dash panel insert
- K1 Main beam warning lamp
- K2 Alternator warning lamp
- K4 Side light warning lamp
- SB6 Fuse 6 on fuse holder B
- T32 32-pin connector
- T40 40-pin connector
- Y8 Radio controlled clock

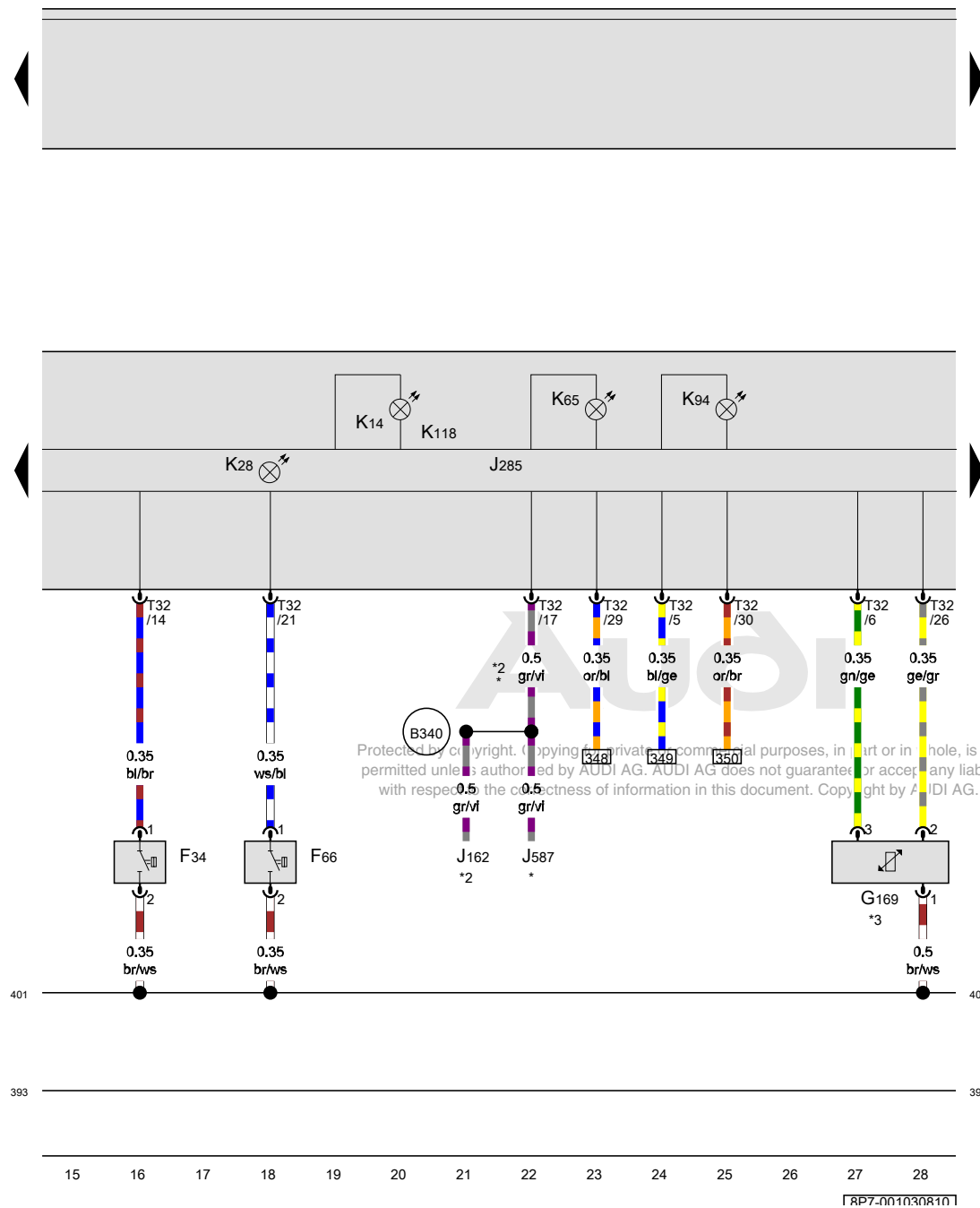
393 Earth connection 28, in main wiring harness

401 Earth connection (sender earth), in interior wiring harness

B299 Positive connection 3 (30), in main wiring harness



- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
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- or = orange
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Brake fluid level warning contact, Coolant shortage indicator switch, Fuel gauge sender 2, Control unit in dash panel insert

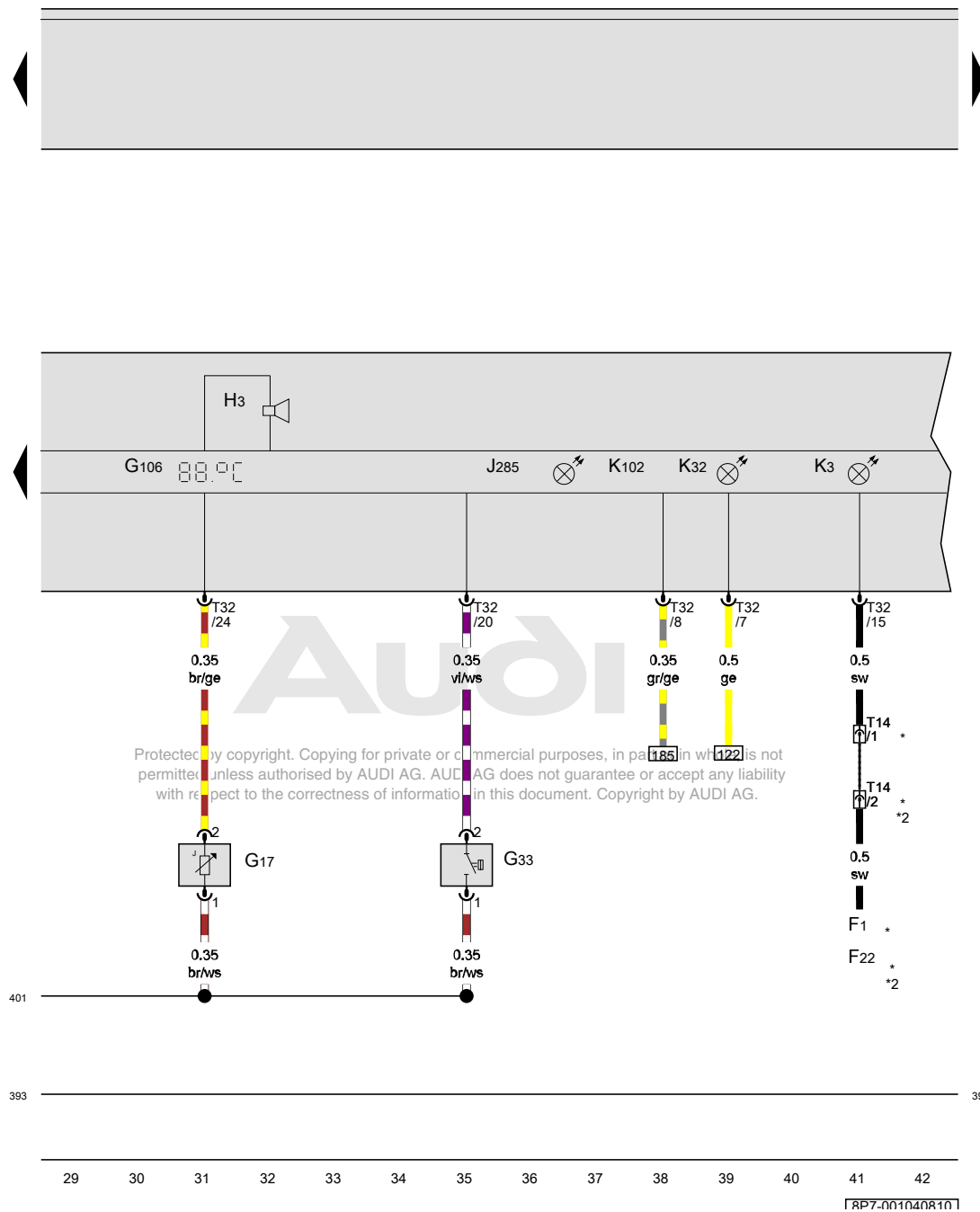
- F34 Brake fluid level warning contact
- F66 Coolant shortage indicator switch
- G169 Fuel gauge sender 2
- J162 Heater control unit
- J285 Control unit in dash panel insert
- J587 Selector lever sensors control unit
- K14 Handbrake warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K65 Left turn signal warning lamp
- K94 Right turn signal warning lamp
- K118 Brake system warning lamp
- T32 32-pin connector

393 Earth connection 28, in main wiring harness

401 Earth connection (sender earth), in interior wiring harness

B340 Connection 1 (58d), in main wiring harness

- * see applicable current flow diagram for automatic gearbox
- *2 see applicable current flow diagram for manually controlled heater
- *3 Only models with all-wheel drive



Oil pressure switch, Ambient temperature sensor, Windscreen washer fluid level sender, Control unit in dash panel insert

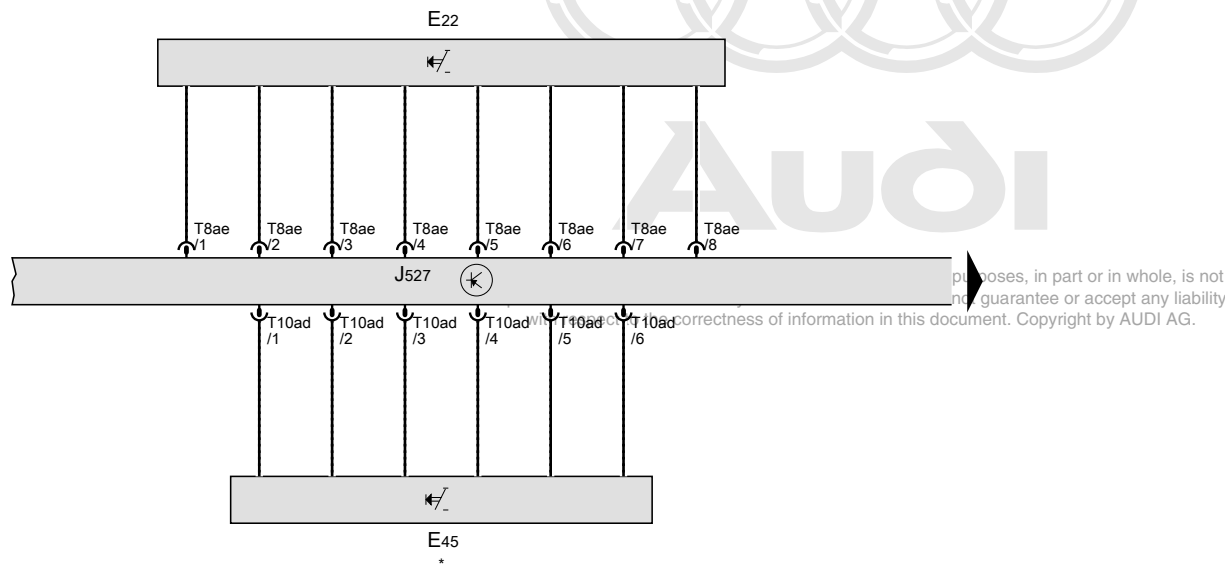
- F1 Oil pressure switch
- F22 Oil pressure switch
- G17 Ambient temperature sensor
- G33 Windscreen washer fluid level sender
- G106 Ambient temperature indicator
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K32 Brake pad warning lamp
- K102 Rear lid closed warning lamp,
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector
- 393 Earth connection 28, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- * see applicable current flow diagram for engine
- *2 According to equipment

Intermittent wiper switch, Cruise control system switch,
Steering column electronics control unit

- E22 Intermittent wiper switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- T8ae 8-pin connector
- T10ad 10-pin connector

393 Earth connection 28, in main wiring harness

* Only models with cruise control system (CCS)



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393

393

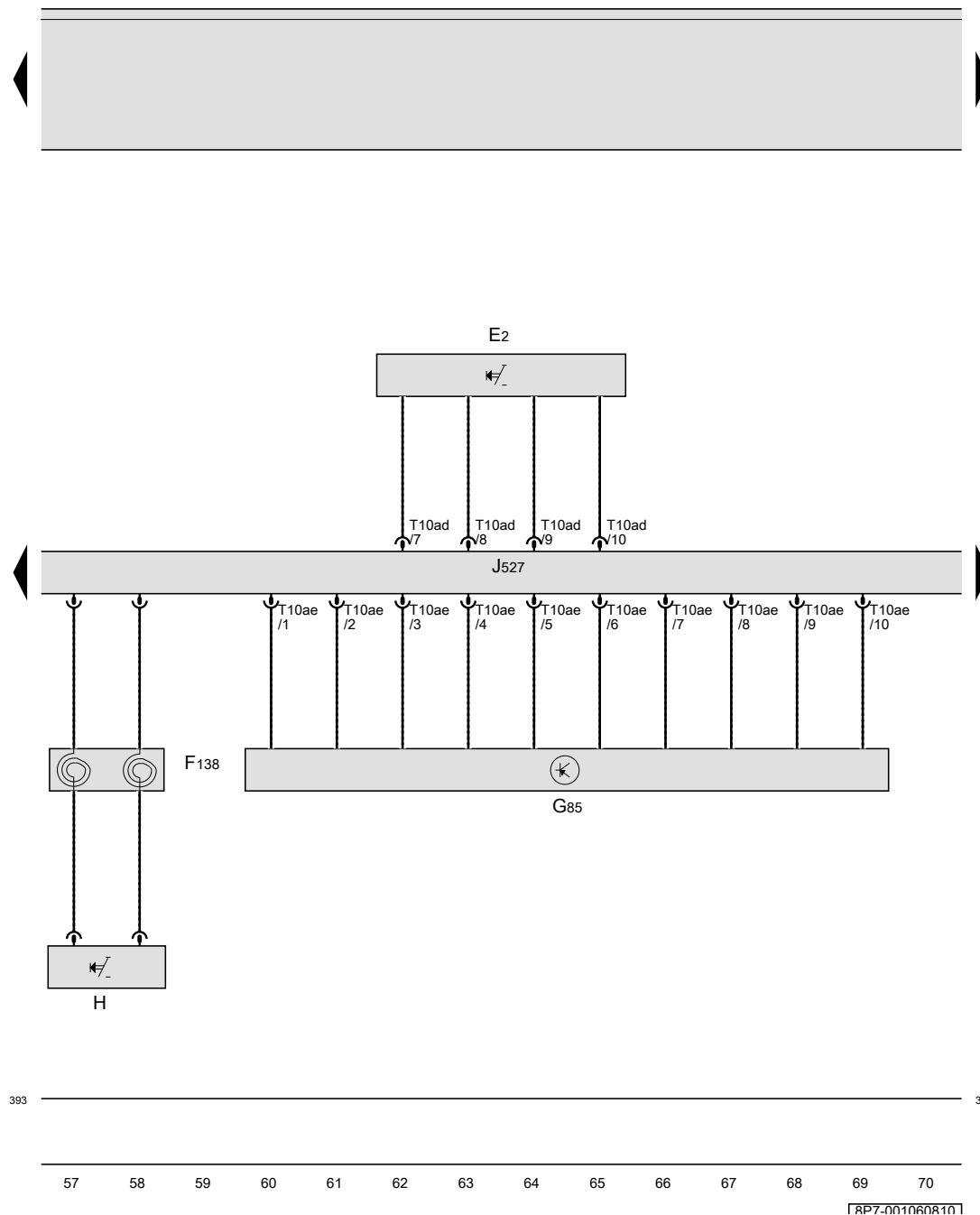
43 44 45 46 47 48 49 50 51 52 53 54 55 56

18P7-0010508101

Turn signal switch, Steering angle sender, Horn plate,
Steering column electronics control unit

- E2 Turn signal switch
- F138 Airbag coil connector and return ring with slip ring
- G85 Steering angle sender
- H Horn plate
- J527 Steering column electronics control unit
- T10ad 10-pin connector
- T10ae 10-pin connector

393 Earth connection 28, in main wiring harness



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Ignition/starter switch, Steering column electronics control unit

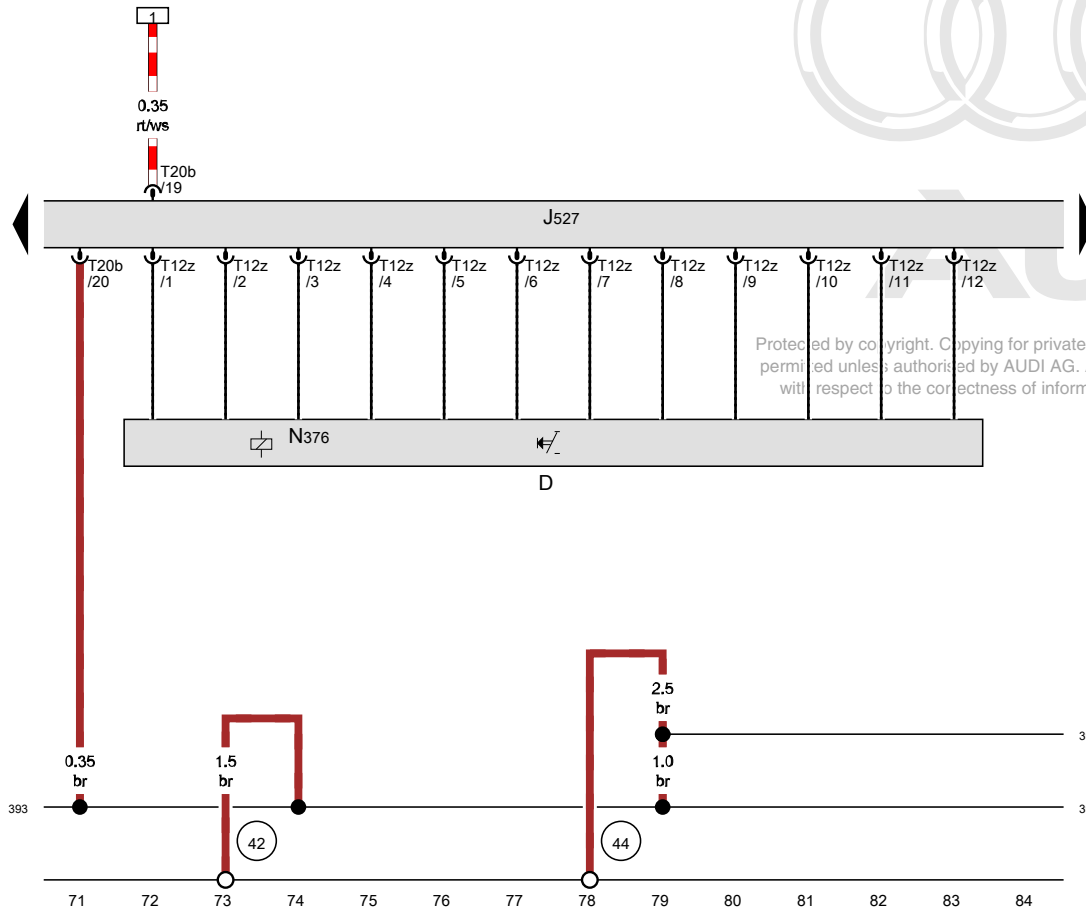
- D Ignition/starter switch
- J527 Steering column electronics control unit
- N376 Ignition key withdrawal lock solenoid
- T12z 12-pin connector
- T20b 20-pin connector

42 Earth point, next to steering column

44 Earth point, lower part of left A-pillar

392 Earth connection 27, in main wiring harness

393 Earth connection 28, in main wiring harness



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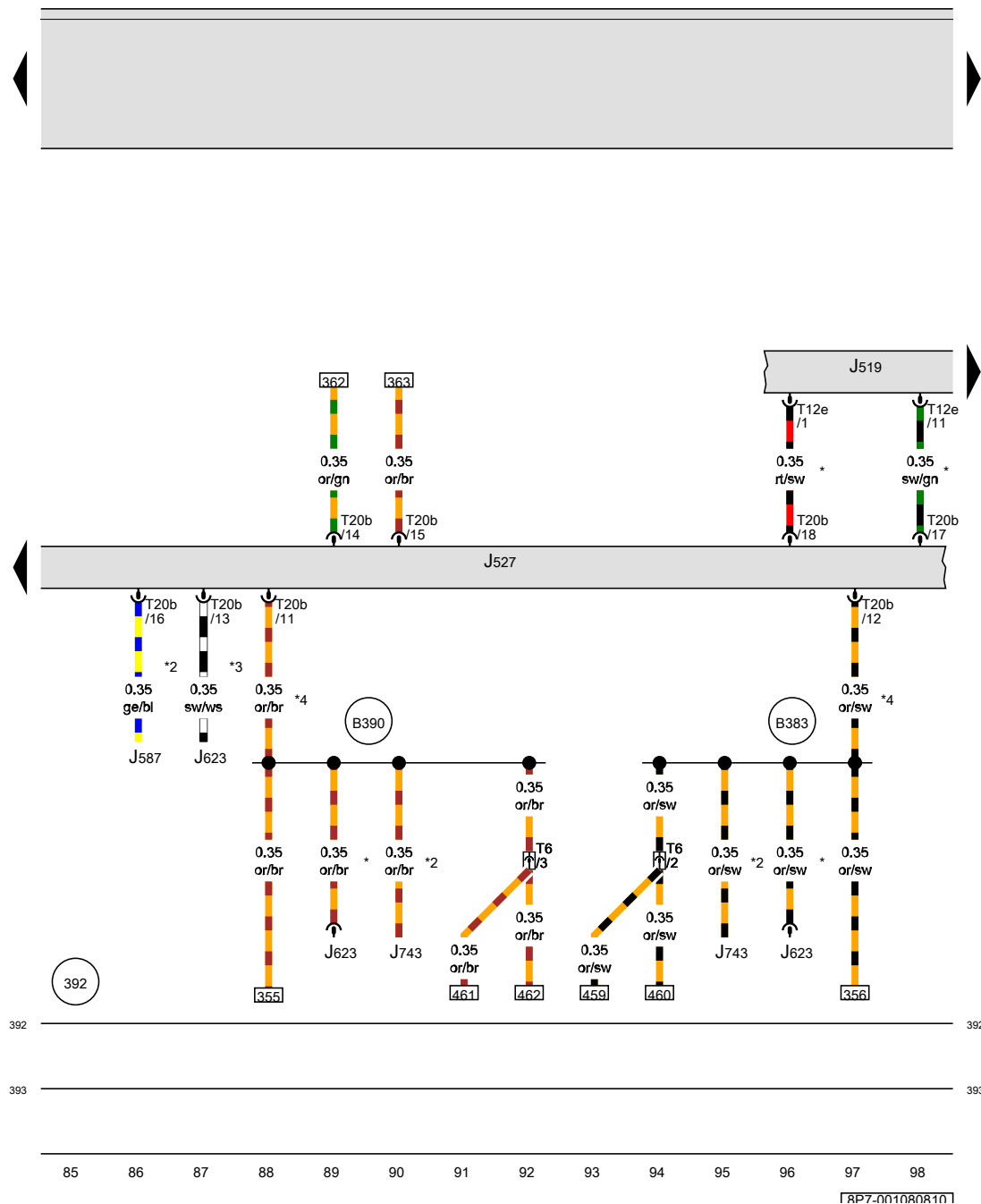
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Onboard supply control unit, Steering column electronics control unit

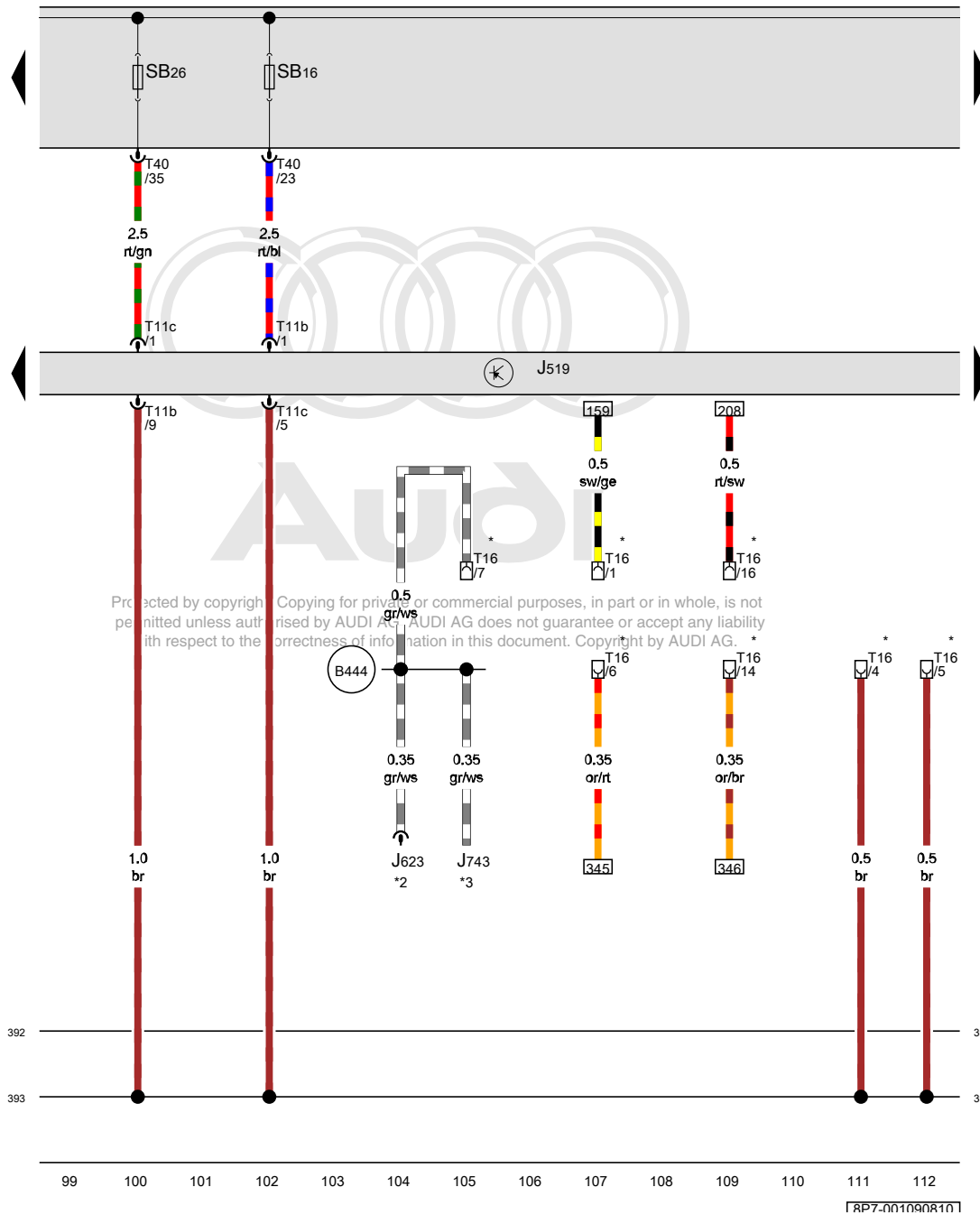
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J587 Selector lever sensors control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T6 6-pin connector, near front left longitudinal member
- T12e 12-pin connector
- T20b 20-pin connector
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

- * see applicable current flow diagram for engine
- *2 see applicable current flow diagram for automatic gearbox
- *3 Only models with cruise control system (CCS)
- *4 If fitted

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Onboard supply control unit

- J519 Onboard supply control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- SB16 Fuse 16 on fuse holder B
- SB26 Fuse 26 on fuse holder B
- T11b 11-pin connector
- T11c 11-pin connector
- T16 16-pin connector
- T40 40-pin connector

392 Earth connection 27, in main wiring harness

393 Earth connection 28, in main wiring harness

B444 Connection 1 (diagnosis), in main wiring harness

* Diagnostic connection

*2 see applicable current flow diagram for engine

*3 see applicable current flow diagram for automatic gearbox



Front left brake pad wear sender, Onboard supply control unit, Washer pump relay, Washer pump

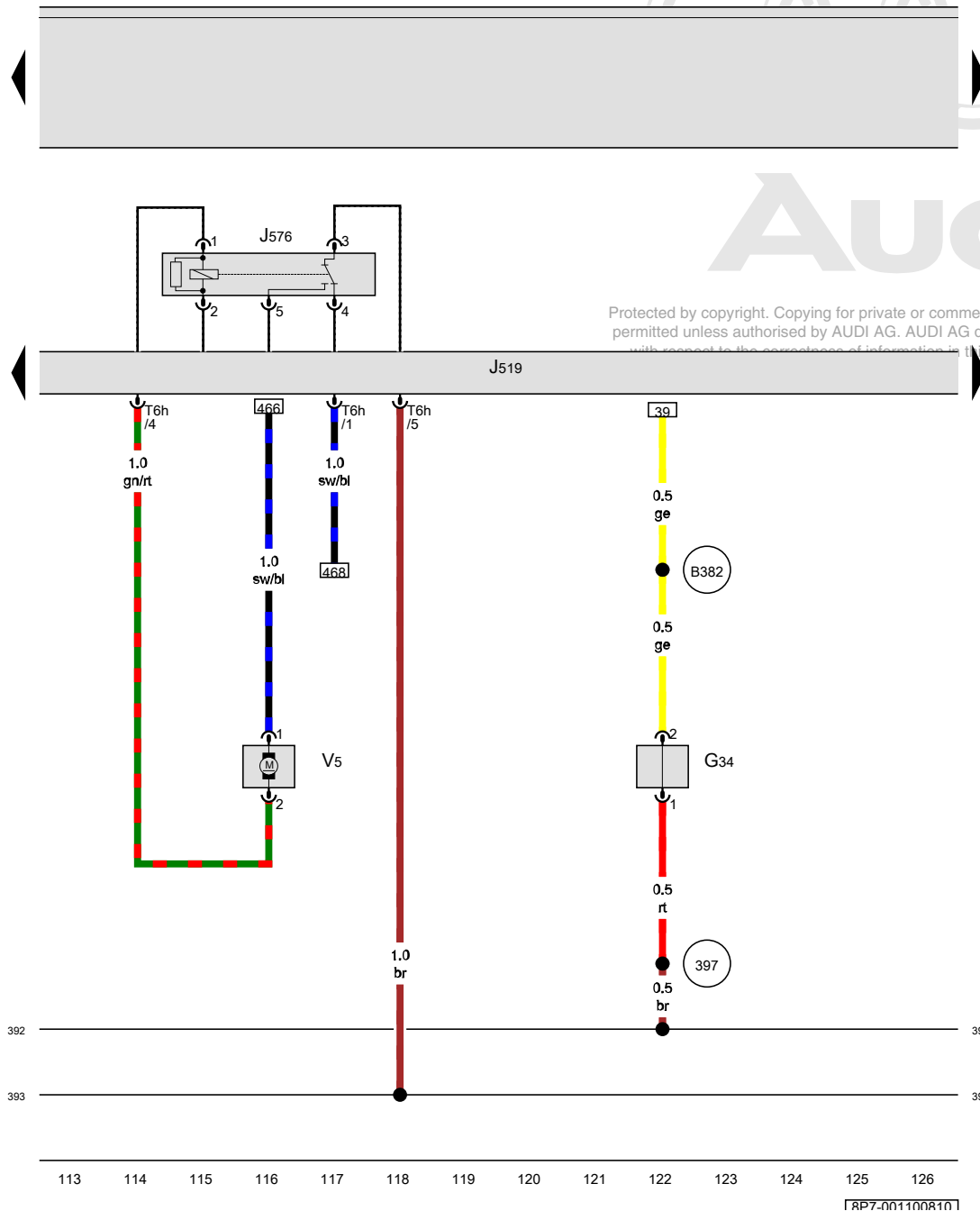
G34 Front left brake pad wear sender
J519 Onboard supply control unit
J576 Washer pump relay
T6h 6-pin connector
V5 Washer pump

392 Earth connection 27, in main wiring harness

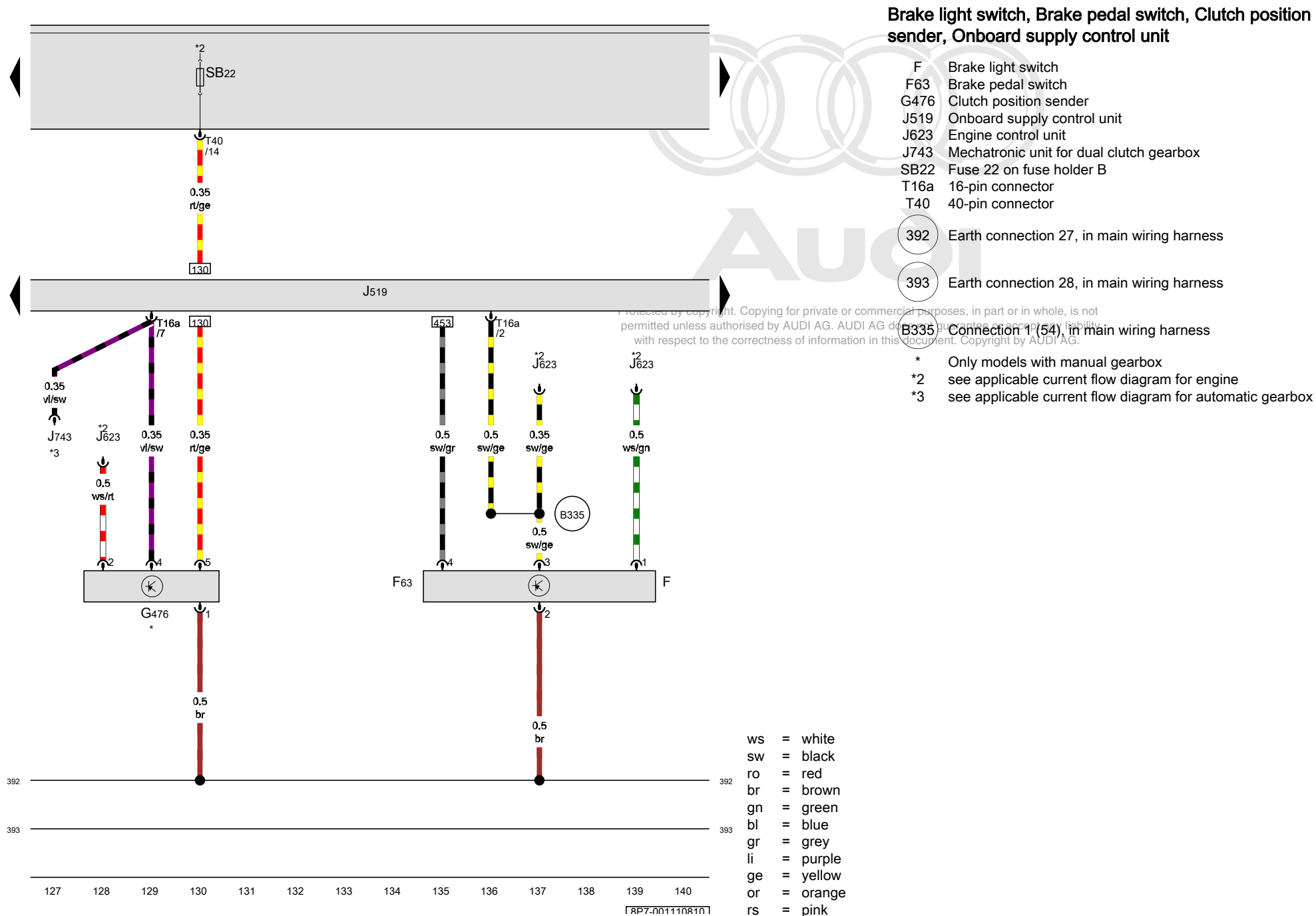
393 Earth connection 28, in main wiring harness

397 Earth connection 32, in main wiring harness

B382 Connection 4 (brake pad wear indicator), in main wiring harness



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Onboard supply control unit, Terminal 50 voltage supply relay

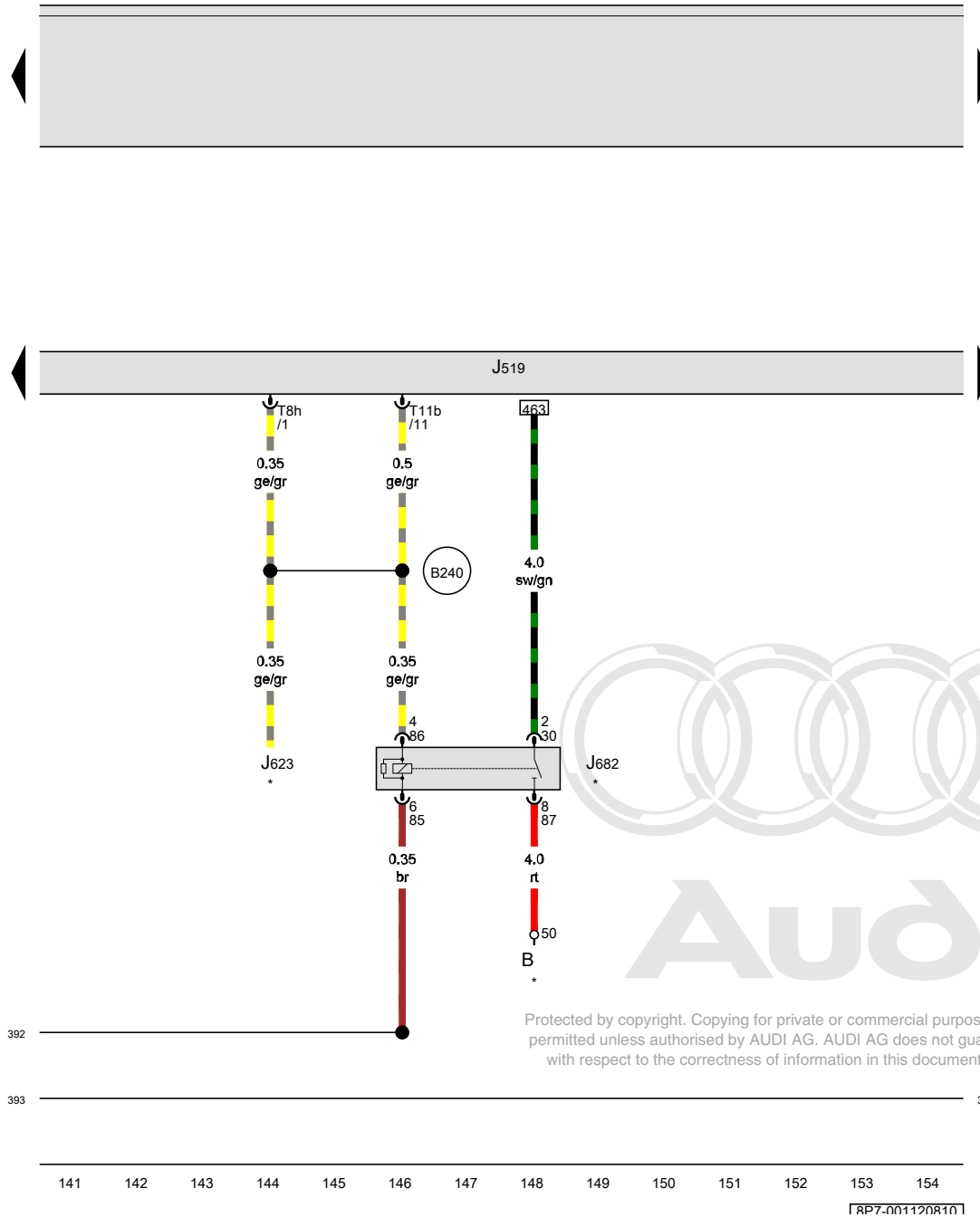
- B Starter
- J519 Onboard supply control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T8h 8-pin connector
- T11b 11-pin connector

392 Earth connection 27, in main wiring harness

393 Earth connection 28, in main wiring harness

B240 Positive connection 2 (50), in interior wiring harness

* see applicable current flow diagram for engine



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Light switch, Switch and instrument illumination regulator, Front and rear fog light switch, Onboard supply control unit

- E1 Light switch
- E20 Switch and instrument illumination regulator
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- T7 7-pin connector
- T10e 10-pin connector
- T12c 12-pin connector
- T12e 12-pin connector
- T16a 16-pin connector

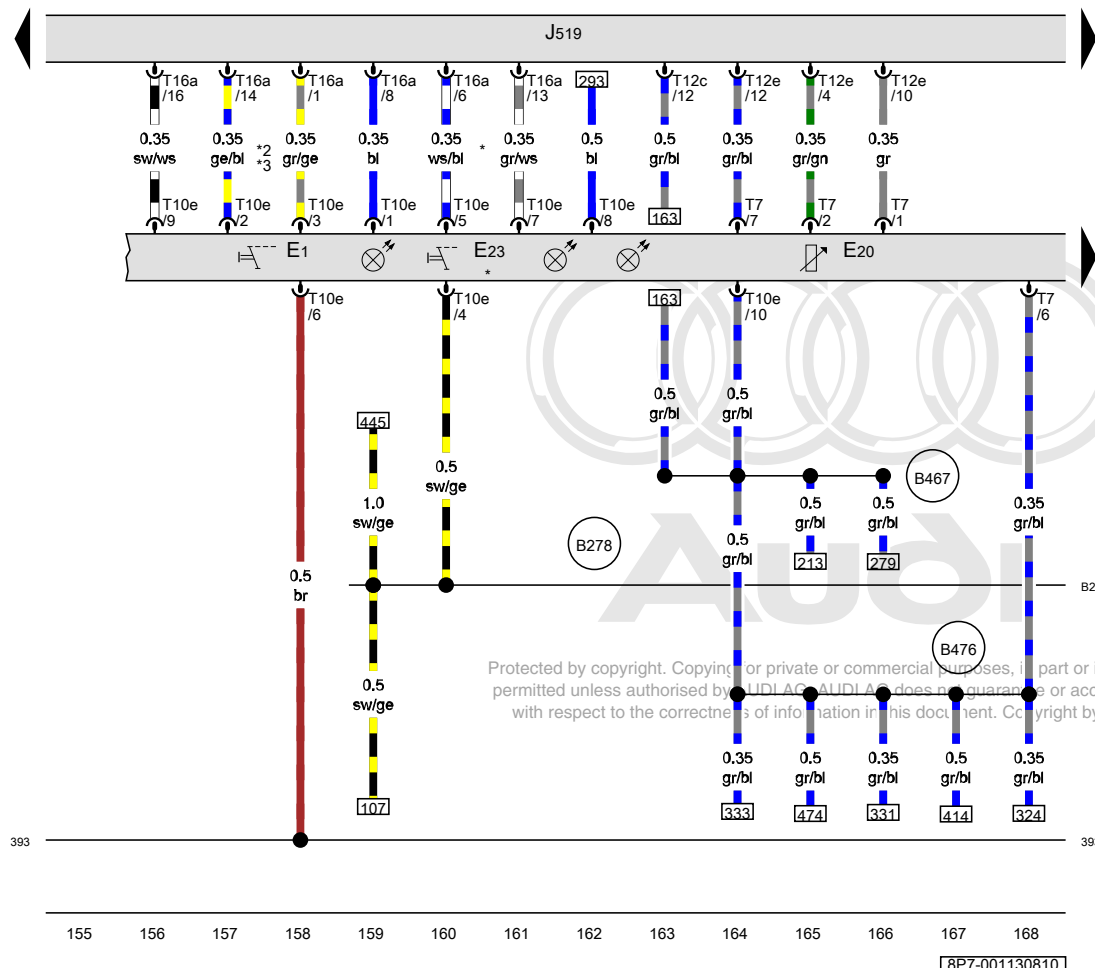
393 Earth connection 28, in main wiring harness

B278 Positive connection 2 (15a) in main wiring harness

B467 Connection 3, in main wiring harness

B476 Connection 12, in main wiring harness

- * Only models with fog lights
- *2 Only models with automatic driving lights control
- *3 Only models with daytime running lights

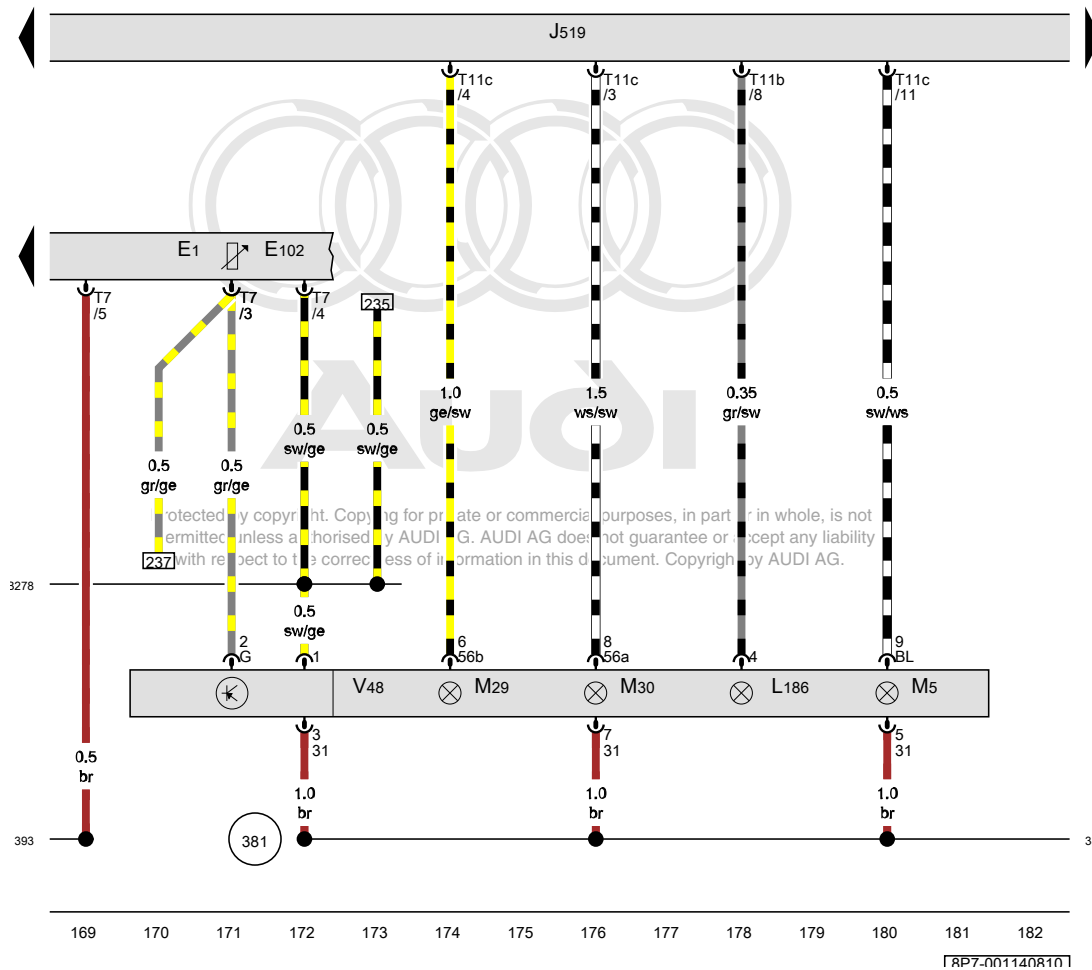


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Light switch, Headlight range control regulator, Onboard supply control unit, Bulb for left daytime driving light and side light, Front left turn signal bulb, Left headlight dipped beam bulb, Left headlight main beam bulb, Left headlight range control motor

- E1 Light switch
- E102 Headlight range control regulator
- J519 Onboard supply control unit
- L186 Bulb for left daytime driving light and side light
- M5 Front left turn signal bulb
- M29 Left headlight dipped beam bulb
- M30 Left headlight main beam bulb
- T7 7-pin connector
- T11b 11-pin connector
- T11c 11-pin connector
- V48 Left headlight range control motor

- 381 Earth connection 16, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness



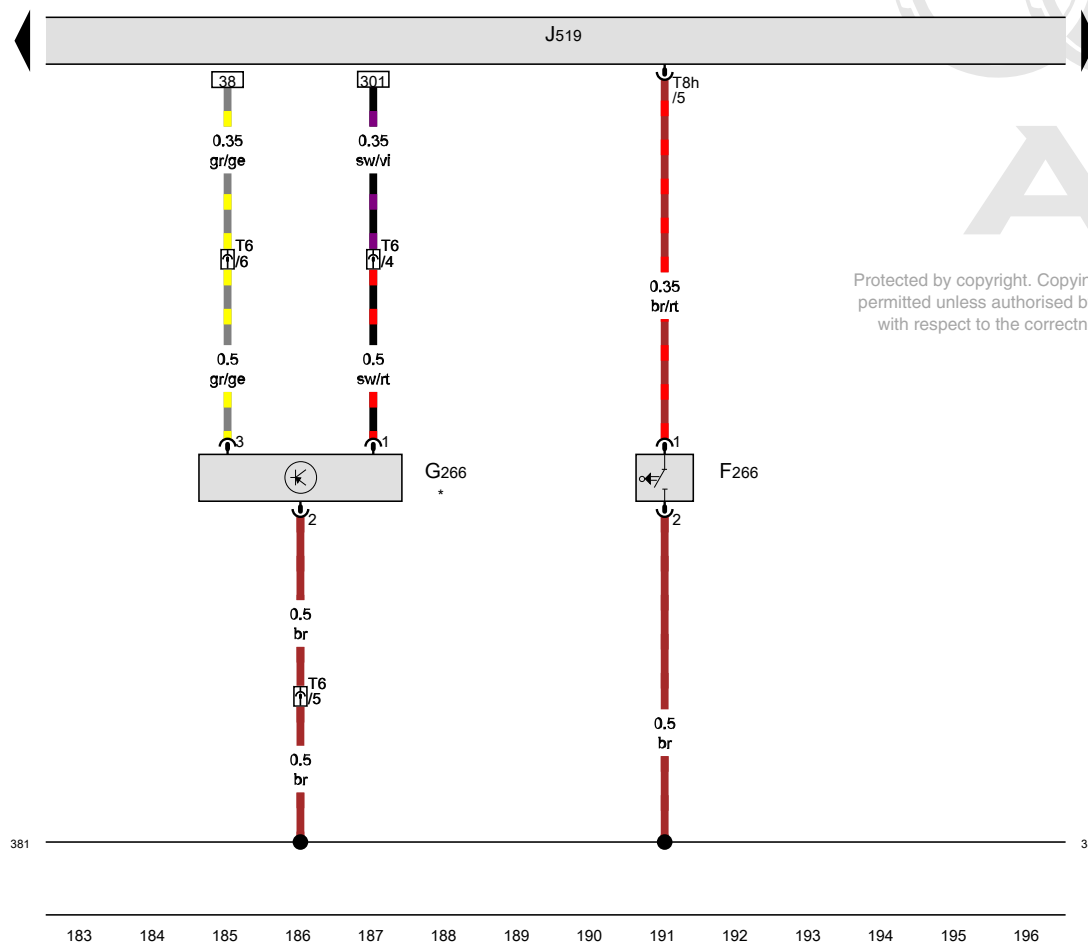
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Bonnet contact switch, Oil level and oil temperature sender, Onboard supply control unit

- F266 Bonnet contact switch
- G266 Oil level and oil temperature sender
- J519 Onboard supply control unit
- T6 6-pin connector
- T8h 8-pin connector

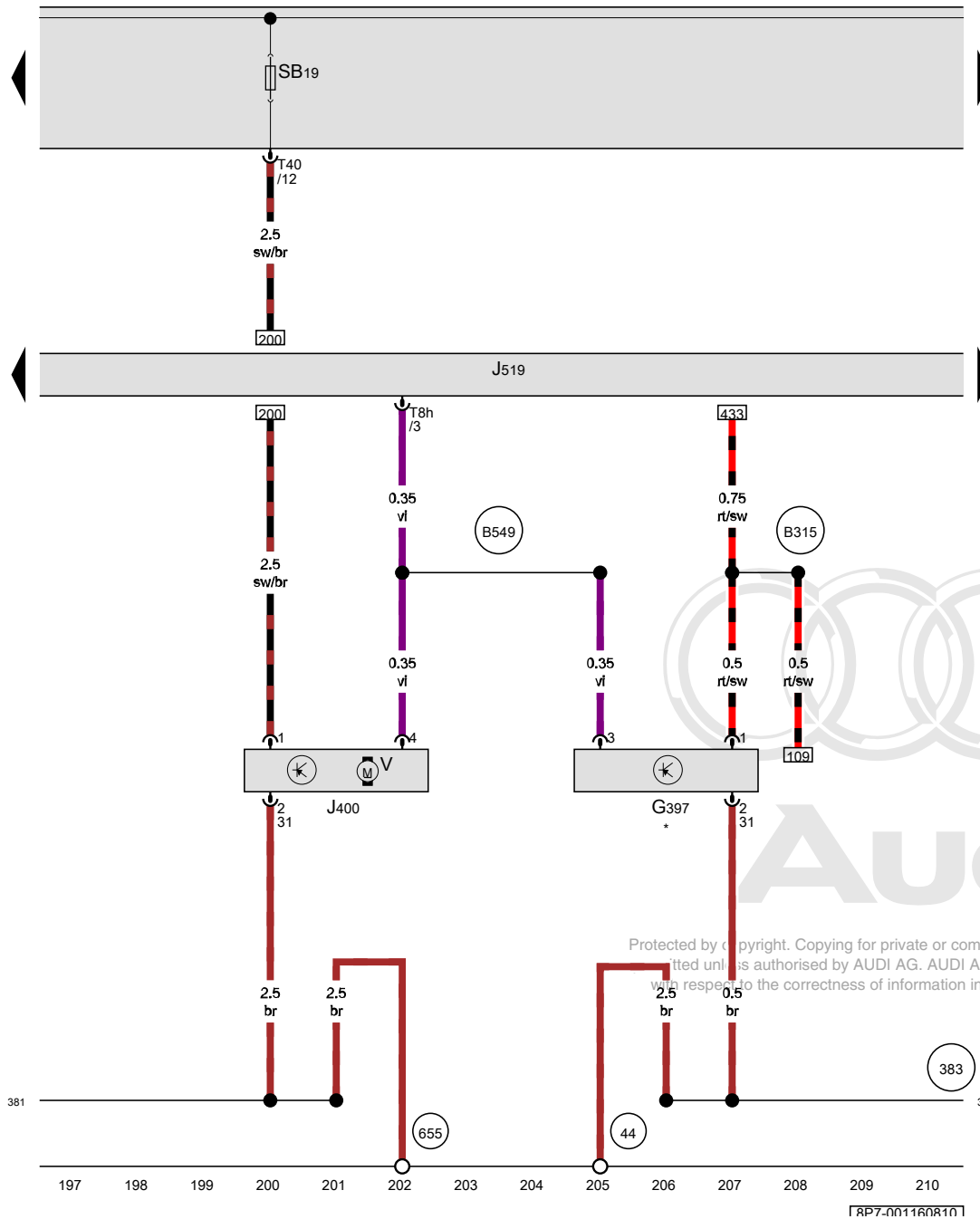
381 Earth connection 16, in main wiring harness

* Only models with extended servicing intervals (ESI)



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Rain and light sensor, Wiper motor control unit, Onboard supply control unit, Windscreen wiper motor

- G397 Rain and light sensor
- J400 Wiper motor control unit
- J519 Onboard supply control unit
- SB19 Fuse 19 on fuse holder B
- T8h 8-pin connector
- T40 40-pin connector
- V Windscreen wiper motor

- 44 Earth point, lower part of left A-pillar
- 381 Earth connection 16, in main wiring harness
- 383 Earth connection 18, in main wiring harness
- 655 Earth point, on left headlight
- B315 Positive connection 1 (30a) in main wiring harness
- B549 Connection 2 (LIN bus) in main wiring harness
- * Only models with automatic driving lights control

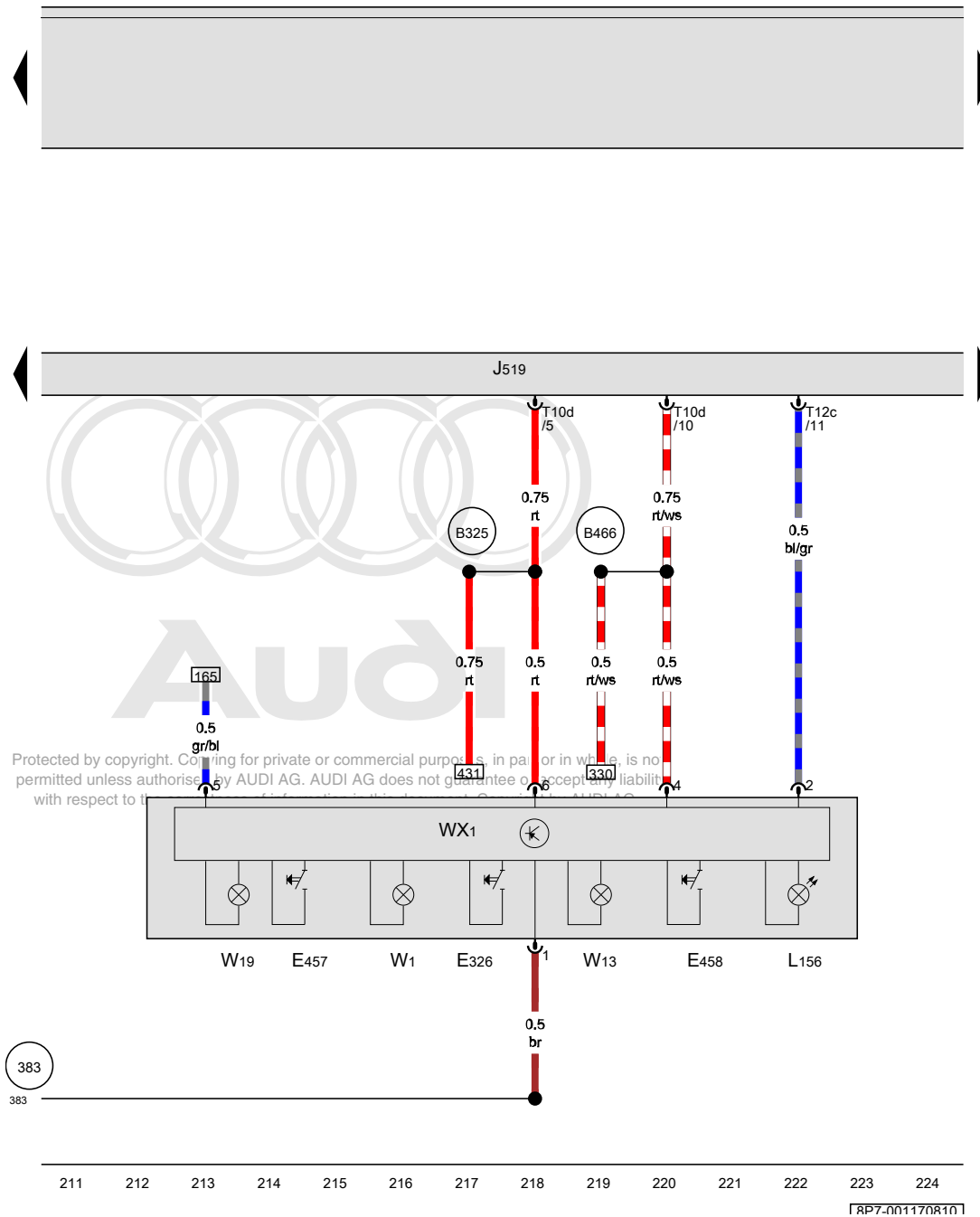
Onboard supply control unit, Front interior light

- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- L156 Switch illumination bulb
- T10d 10-pin connector
- T12c 12-pin connector
- WX1 Front interior light
- W1 Front interior light
- W13 Front passenger reading light
- W19 Driver side reading light

383 Earth connection 18, in main wiring harness

B325 Positive connection 11 (30a) in main wiring harness

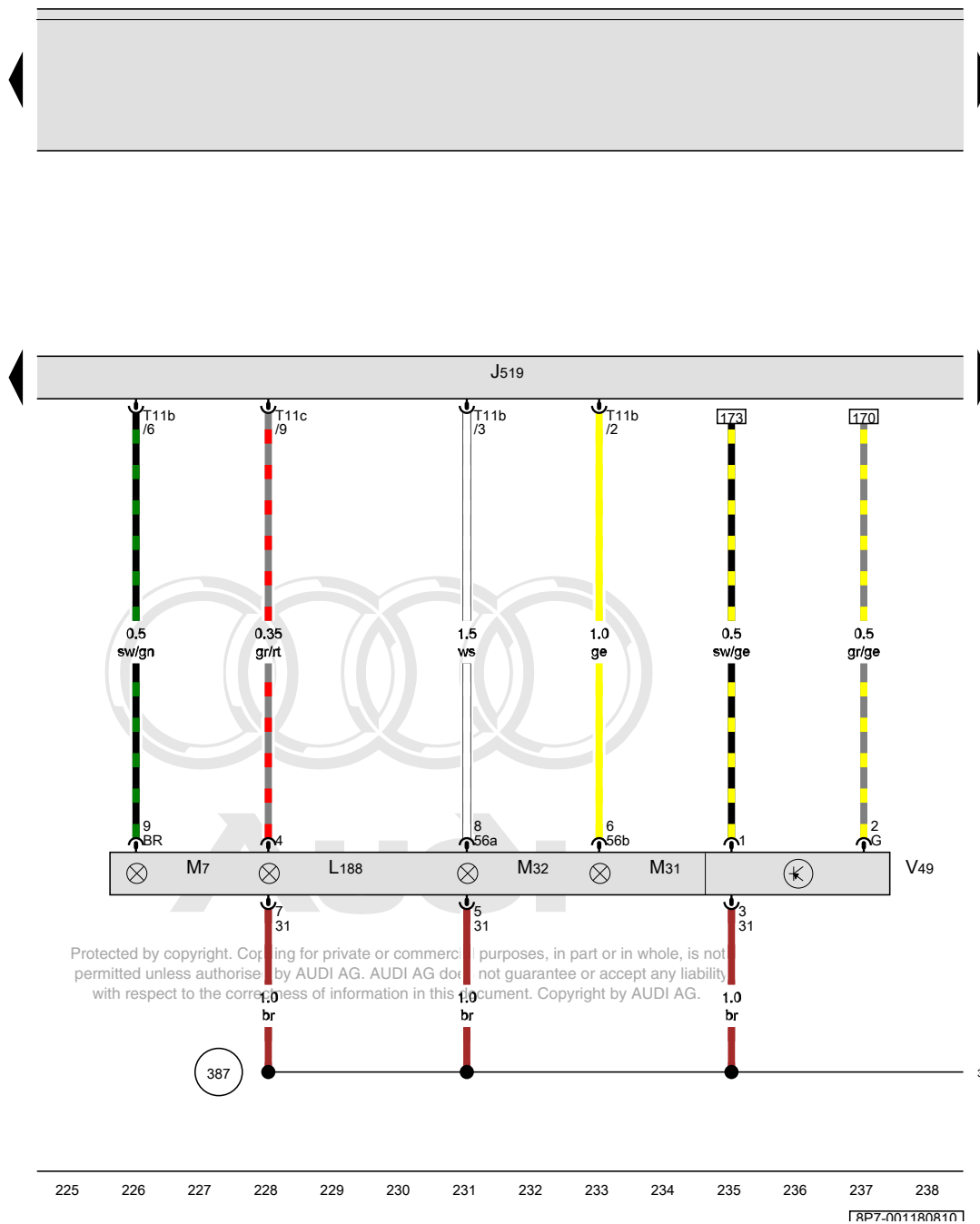
B466 Connection 2, in main wiring harness

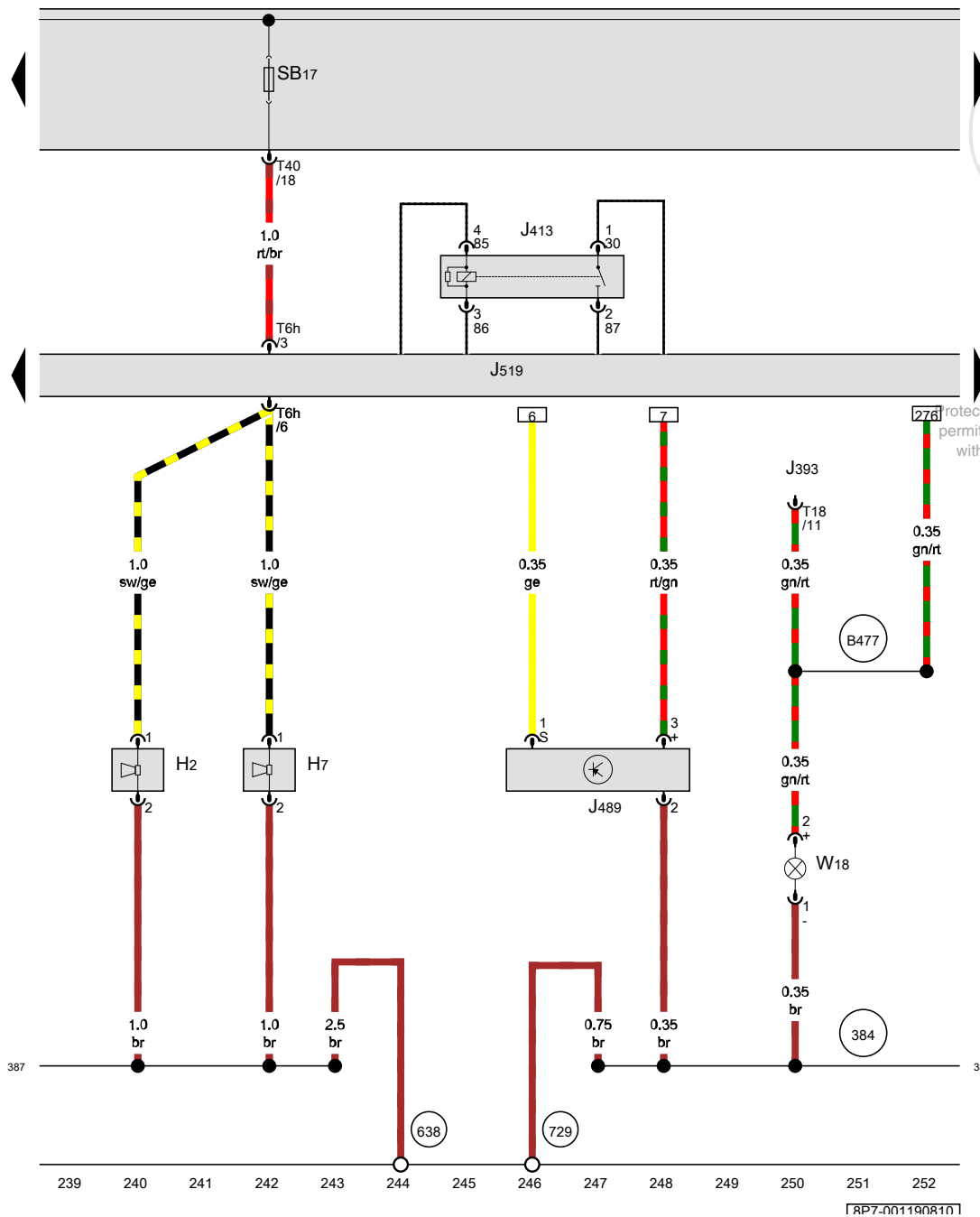


Onboard supply control unit, Bulb for right daytime driving light and side light, Front right turn signal bulb, Right headlight dipped beam bulb, Right headlight main beam bulb, Right headlight range control motor

- J519 Onboard supply control unit
- L188 Bulb for right daytime driving light and side light
- M7 Front right turn signal bulb
- M31 Right headlight dipped beam bulb
- M32 Right headlight main beam bulb
- T11b 11-pin connector
- T11c 11-pin connector
- V49 Right headlight range control motor

- 387 Earth connection 22, in main wiring harness



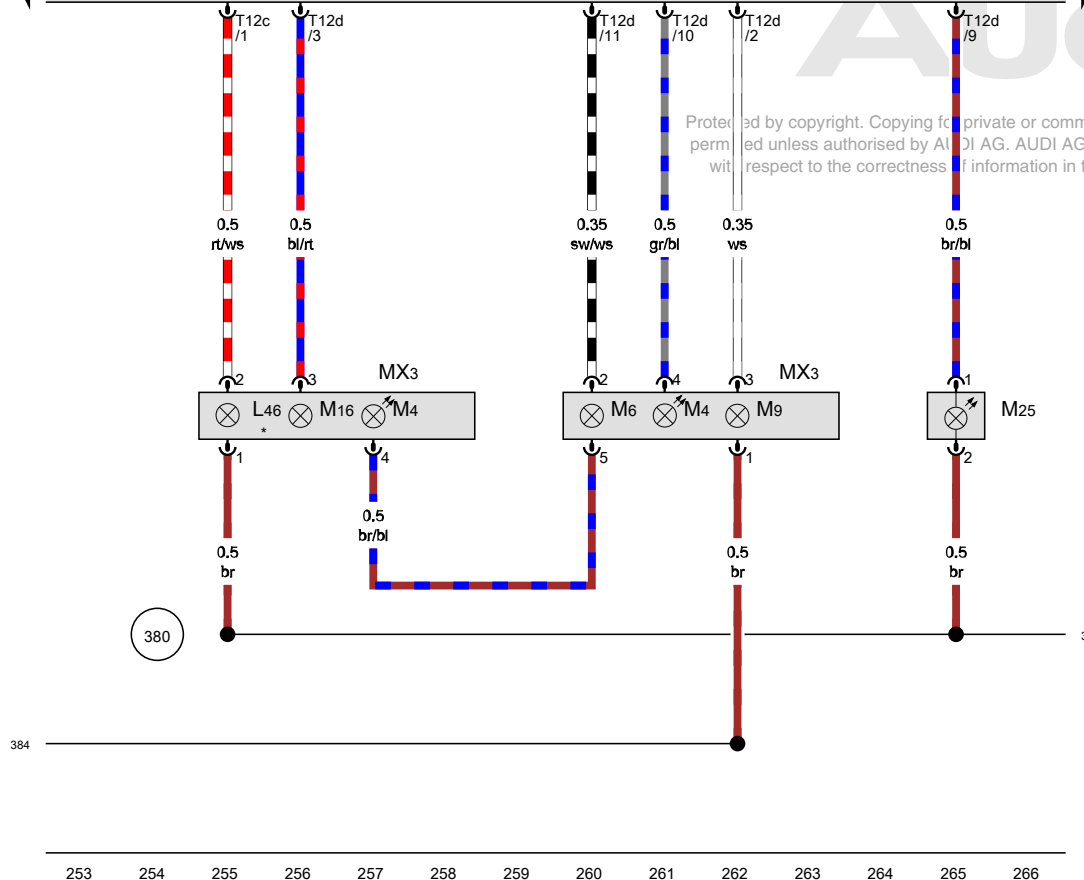
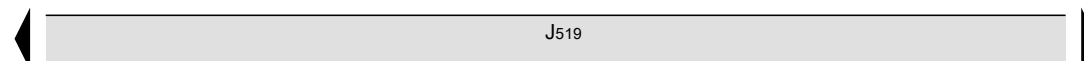


Treble horn, Bass horn, Horn relay, Radio controlled clock receiver, Onboard supply control unit, Luggage compartment light on left

- H2 Treble horn
- H7 Bass horn
- J393 Convenience system central control unit
- J413 Horn relay
- J489 Radio controlled clock receiver
- J519 Onboard supply control unit
- SB17 Fuse 17 on fuse holder B
- T6h 6-pin connector
- T18 18-pin connector
- T40 40-pin connector
- W18 Luggage compartment light on left

- 384 Earth connection 19, in main wiring harness
- 387 Earth connection 22, in main wiring harness
- 638 Earth point, on right A-pillar
- 729 Earth point, on left rear wheel housing
- B477 Connection 13, in main wiring harness

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Onboard supply control unit, Left tail light, Additional brake light bulb

- J519 Onboard supply control unit
- L46 Rear left fog light bulb
- MX3 Left tail light
- M4 Left tail light bulb
- M6 Rear left turn signal bulb
- M9 Left brake light bulb
- M16 Left reversing light bulb
- M25 Additional brake light bulb
- T12c 12-pin connector
- T12d 12-pin connector

380 Earth connection 15, in main wiring harness

384 Earth connection 19, in main wiring harness

* Only models with rear fog lights

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Onboard supply control unit, Right tail light, Electric socket, Right luggage compartment light

- J519 Onboard supply control unit
- L47 Rear right fog light bulb
- M2 Right tail light bulb
- MX4 Right tail light
- M8 Rear right turn signal bulb
- M10 Right brake light bulb
- M17 Right reversing light bulb
- T12c 12-pin connector
- T12d 12-pin connector
- U Electric socket
- W35 Right luggage compartment light

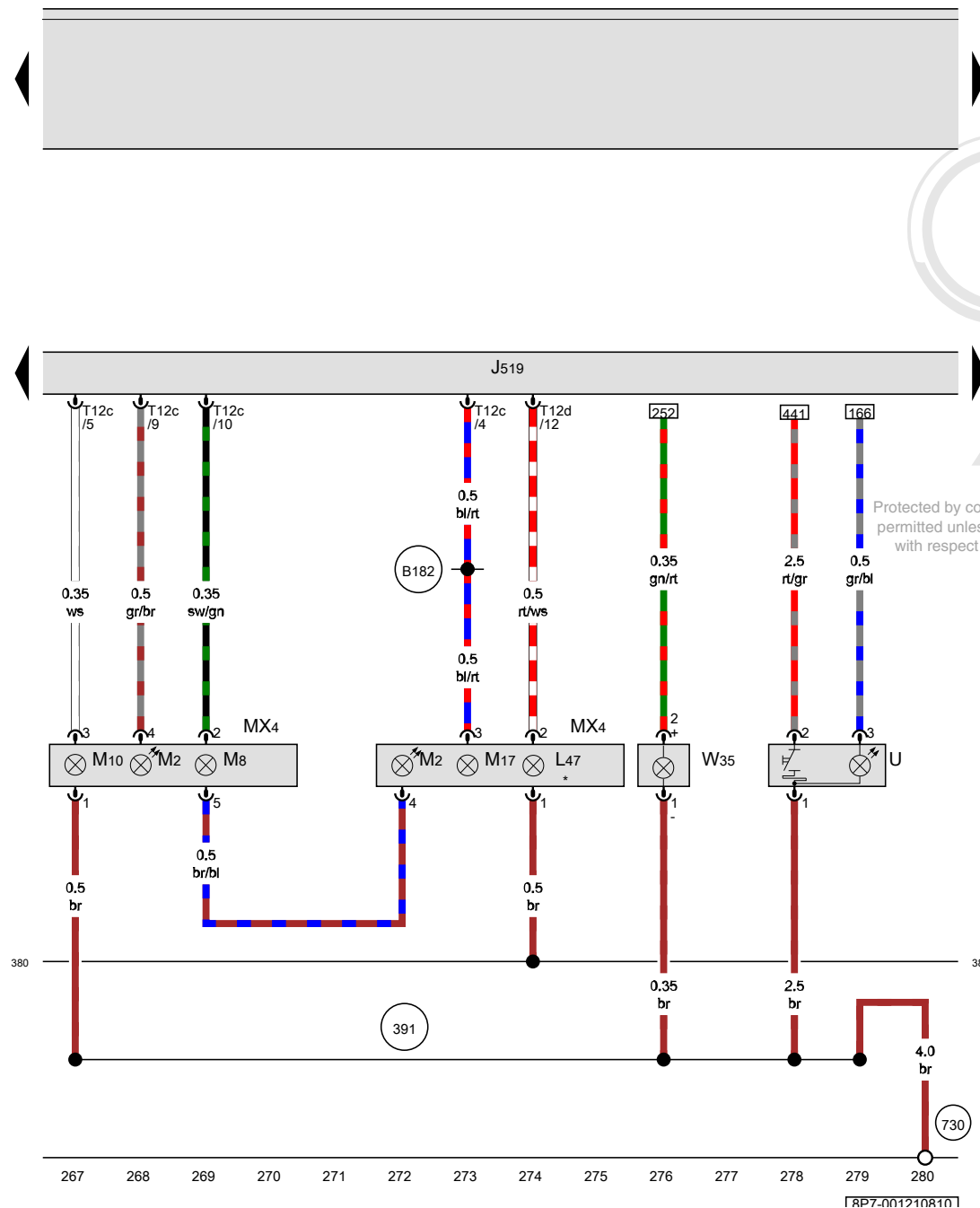
380 Earth connection 15, in main wiring harness

391 Earth connection 26, in main wiring harness

730 Earth point 1, on right rear wheel housing

B182 Connection (RL) in interior wiring harness

* Only models with rear fog lights

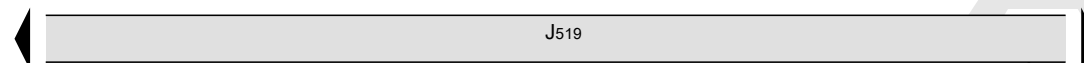


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Rear lid handle release button, Rear lid contact switch for anti-theft alarm, Onboard supply control unit, Tank filler flap locking motor, Number plate light

- E234 Rear lid handle release button
- F123 Rear lid contact switch for anti-theft alarm
- J393 Convenience system central control unit
- J519 Onboard supply control unit
- T8a 8-pin connector
- T8g 8-pin connector
- T12d 12-pin connector
- T18 18-pin connector
- V155 Tank filler flap locking motor
- X Number plate light



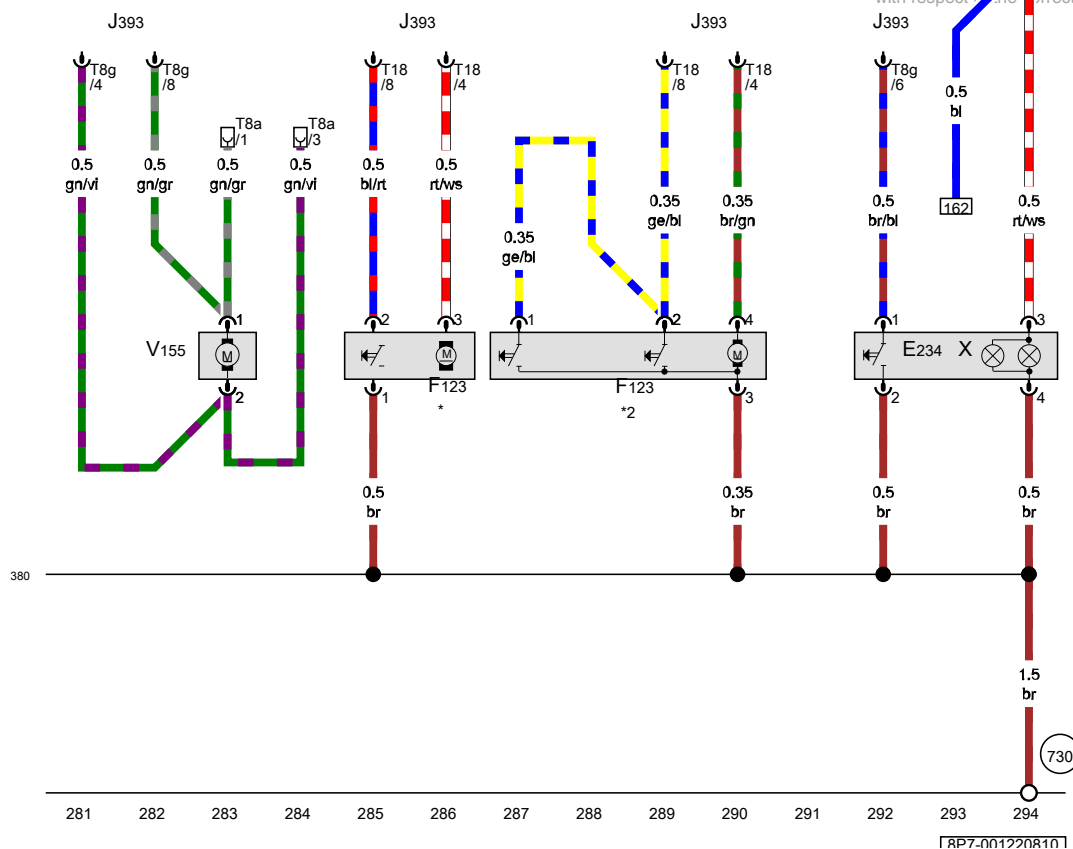
380 Earth connection 15, in main wiring harness

730 Earth point 1, on right rear wheel housing

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Up to April 2008

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Reversing light switch, Onboard supply control unit, Left washer jet heater element, Right washer jet heater element

- F4 Reversing light switch
- J162 Heater control unit
- J519 Onboard supply control unit
- T8h 8-pin connector
- T20c 20-pin connector
- Z20 Left washer jet heater element
- Z21 Right washer jet heater element

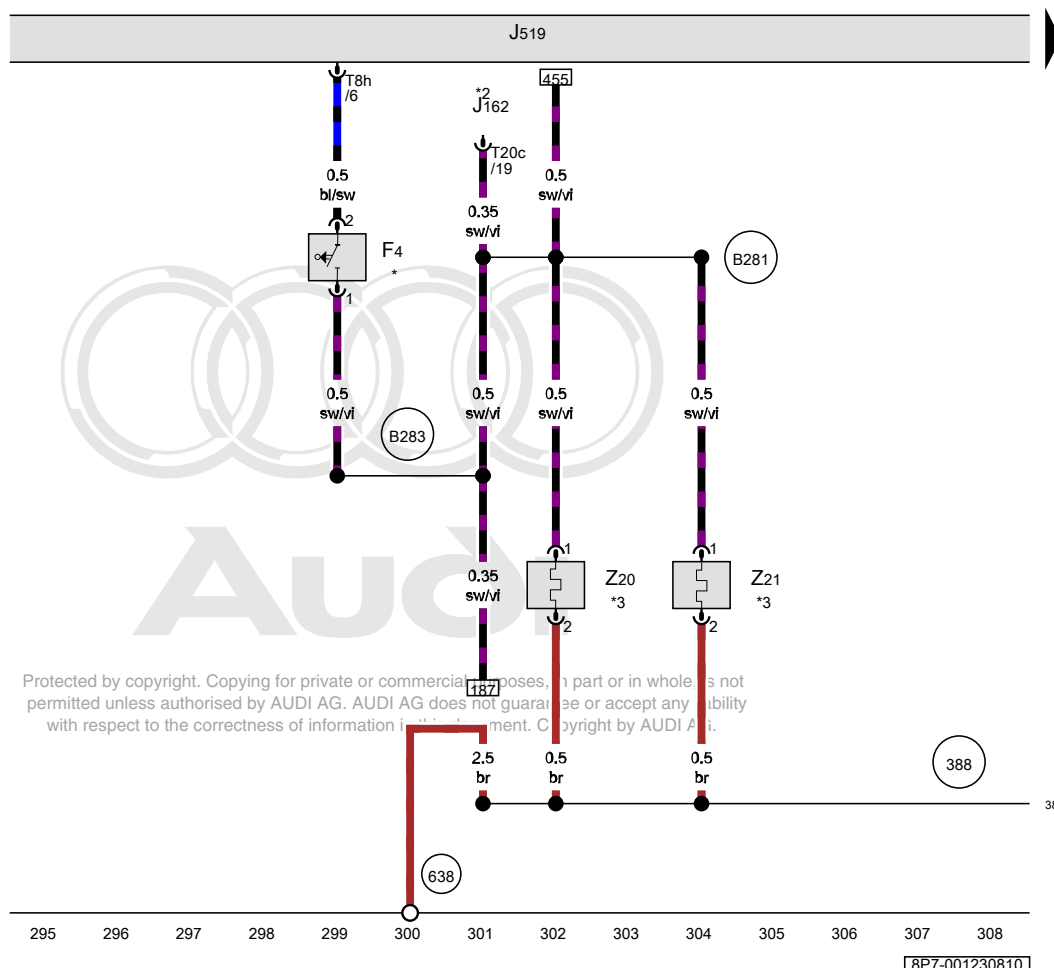
388 Earth connection 23, in main wiring harness

638 Earth point, on right A-pillar

B281 Positive connection 5 (15a) in main wiring harness

B283 Positive connection 7 (15a) in main wiring harness

- * Only models with manual gearbox
- *2 see applicable current flow diagram for manually controlled heater
- *3 Only models with heater elements for washer jets



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Heater control unit, Onboard supply control unit, Heated rear window

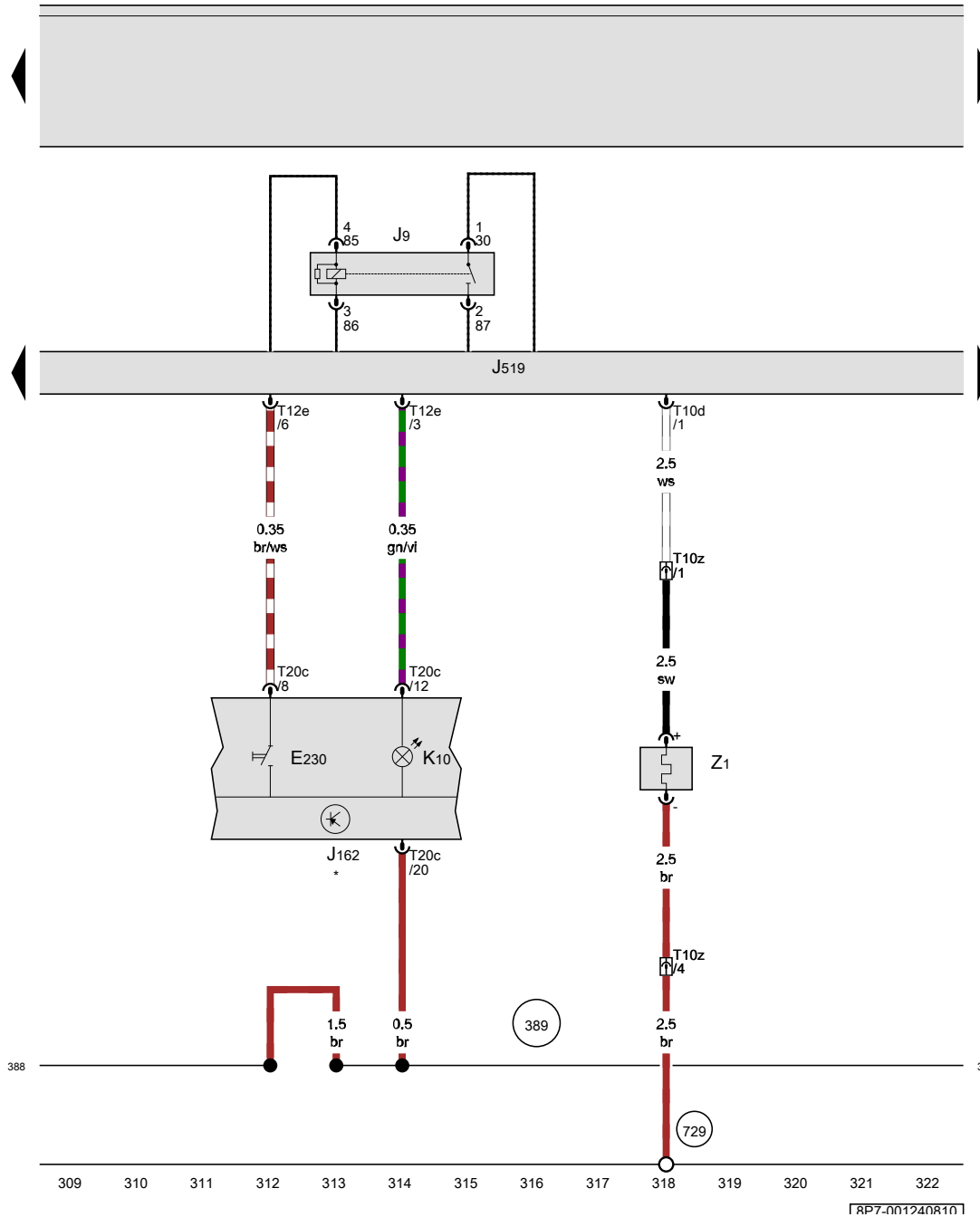
- E230 Heated rear window button
- J9 Heated rear window relay
- J162 Heater control unit
- J519 Onboard supply control unit
- K10 Heated rear window warning lamp
- T10d 10-pin connector
- T10z 10-pin connector
- T12e 12-pin connector
- T20c 20-pin connector
- Z1 Heated rear window

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

729 Earth point, on left rear wheel housing

* see applicable current flow diagram for manually controlled heater



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18P7-001240R101

Glove compartment light switch, Parking brake contact switch, Onboard supply control unit, Ashtray illumination bulb, Storage compartment illumination bulb, Glove compartment light, Right footwell light

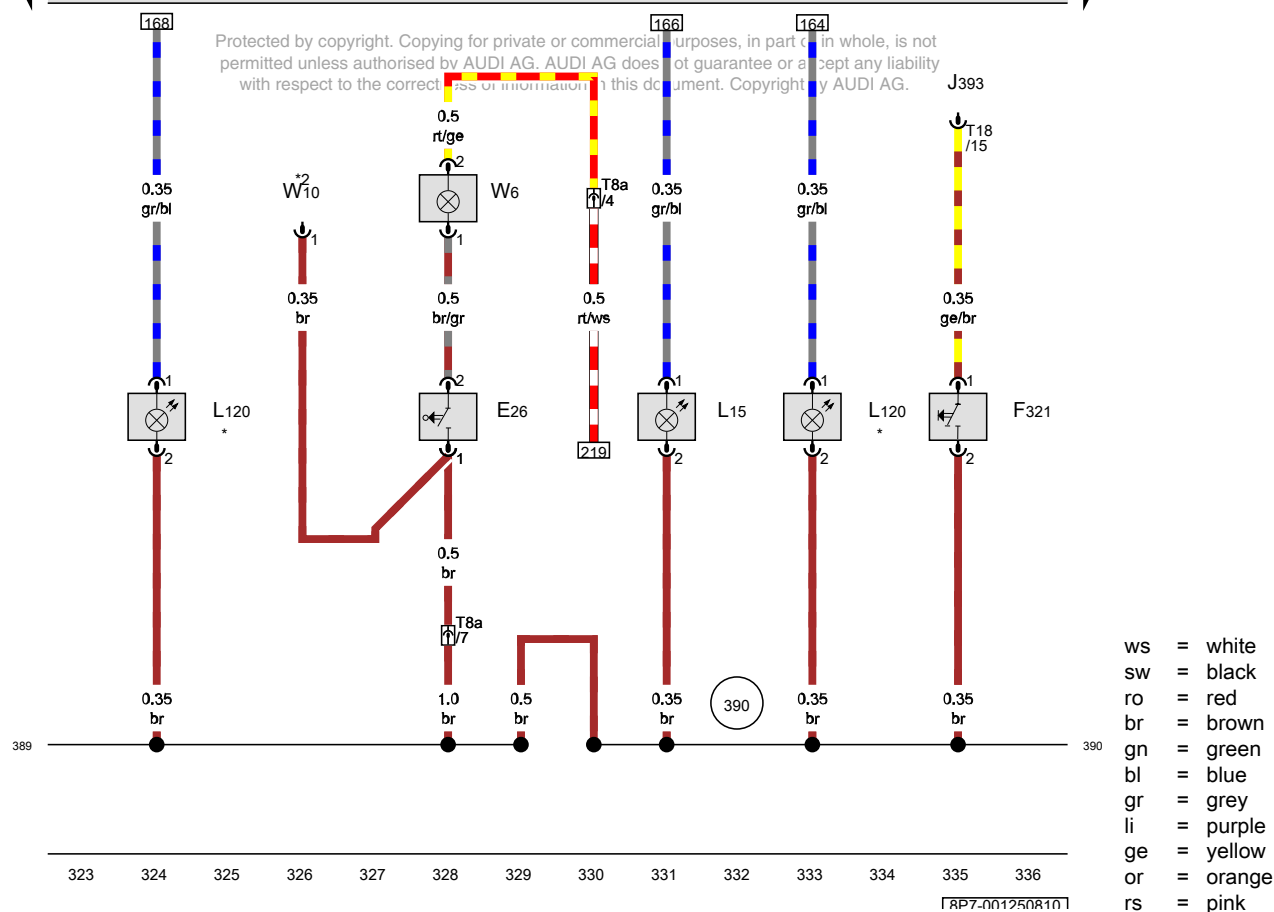
- | | |
|------|---|
| E26 | Glove compartment light switch |
| F321 | Parking brake contact switch |
| J393 | Convenience system central control unit |
| J519 | Onboard supply control unit |
| L15 | Ashtray illumination bulb |
| L120 | Storage compartment illumination bulb |
| T8a | 8-pin connector, near glove compartment |
| T18 | 18-pin connector |
| W6 | Glove compartment light |
| W10 | Right footwell light |

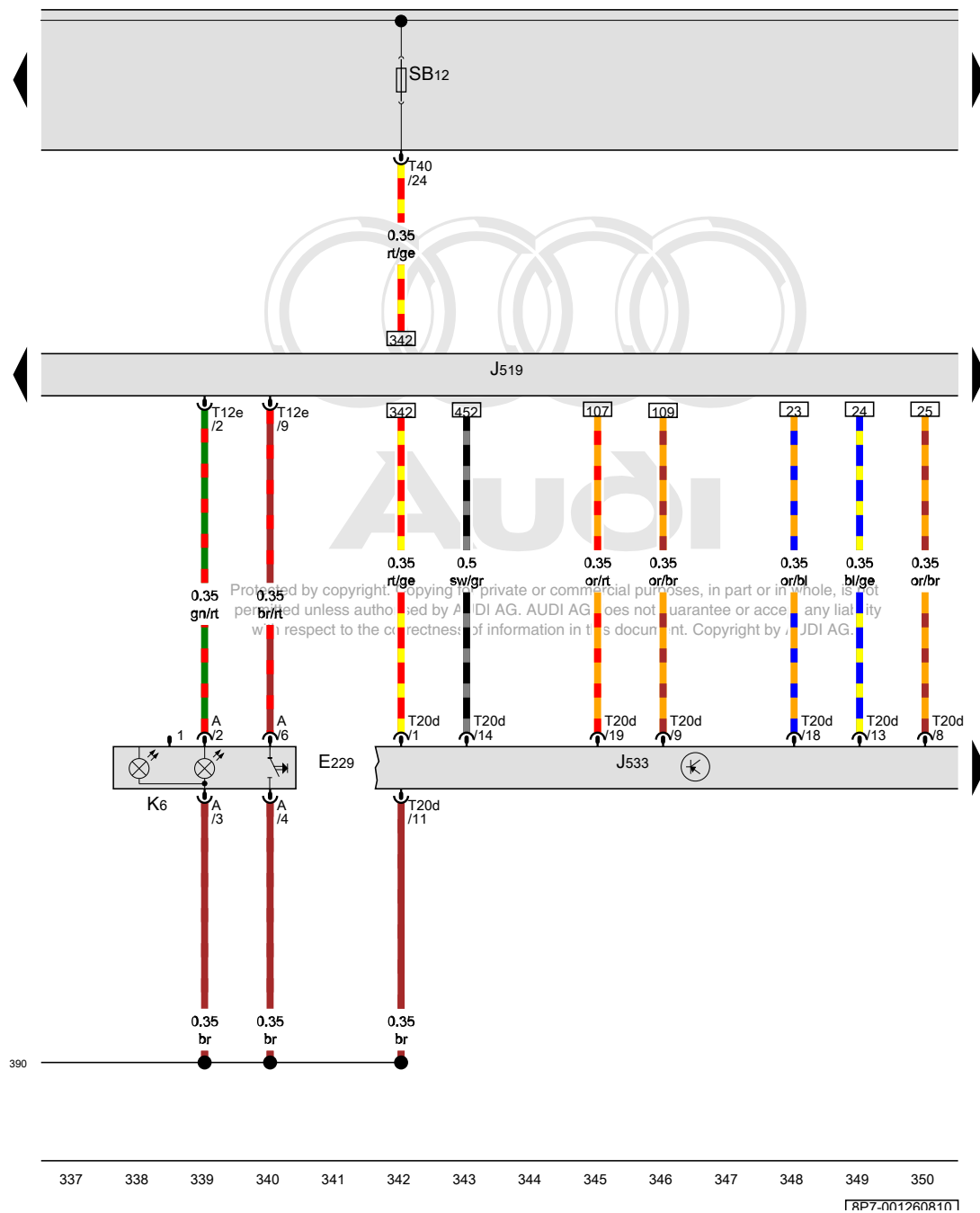
- (389) Earth connection 24, in main wiring harness

- (390) Earth connection 25, in main wiring harness

- * Optional equipment

- *2 see applicable current flow diagram for convenience system





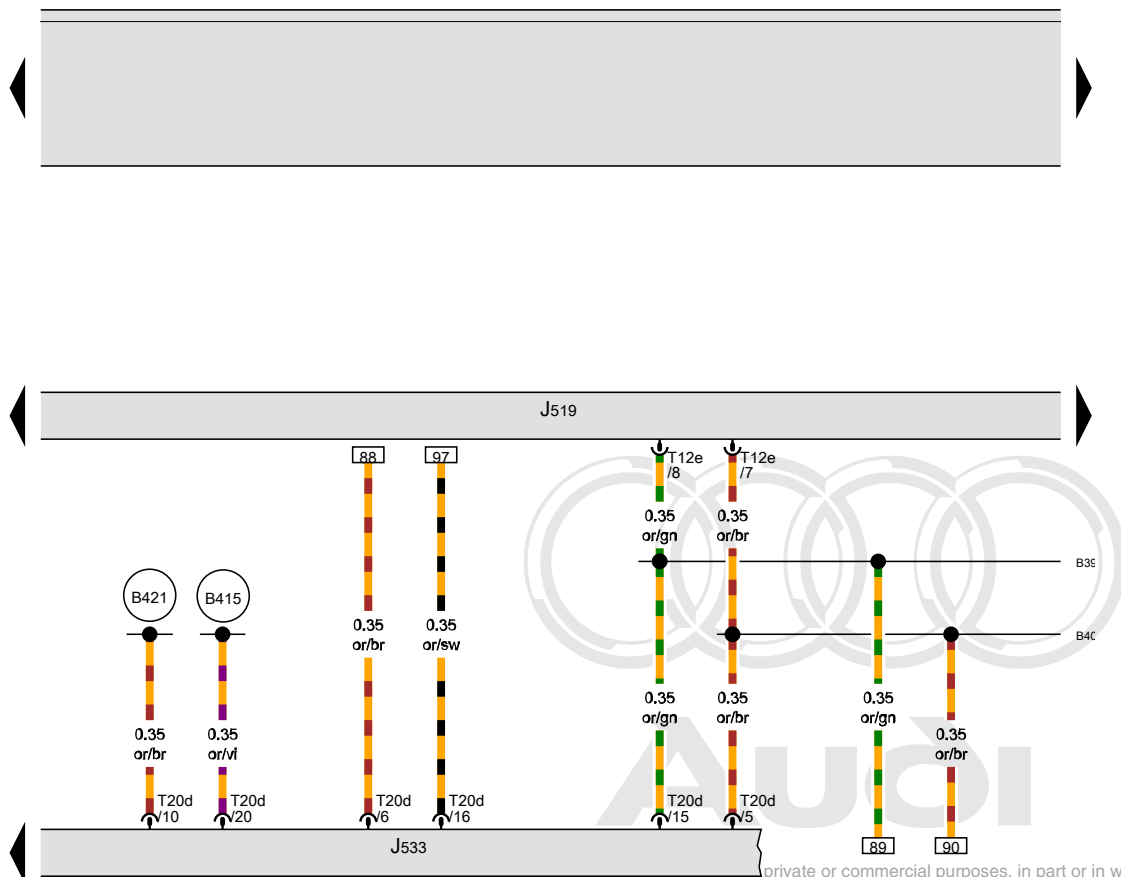
Onboard supply control unit, Data bus diagnostic interface,
Indicator lamp for hazard warning light

- E229 Hazard warning lights button
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- K6 Indicator lamp for hazard warning light
- SB12 Fuse 12 on fuse holder B
- T12e 12-pin connector
- T20d 20-pin connector
- T40 40-pin connector
- 390 Earth connection 25, in main wiring harness

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Onboard supply control unit, Data bus diagnostic interface

- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- T12e 12-pin connector
- T20d 20-pin connector
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B415 Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421 Connection 1 (infotainment CAN bus, low), in main wiring harness

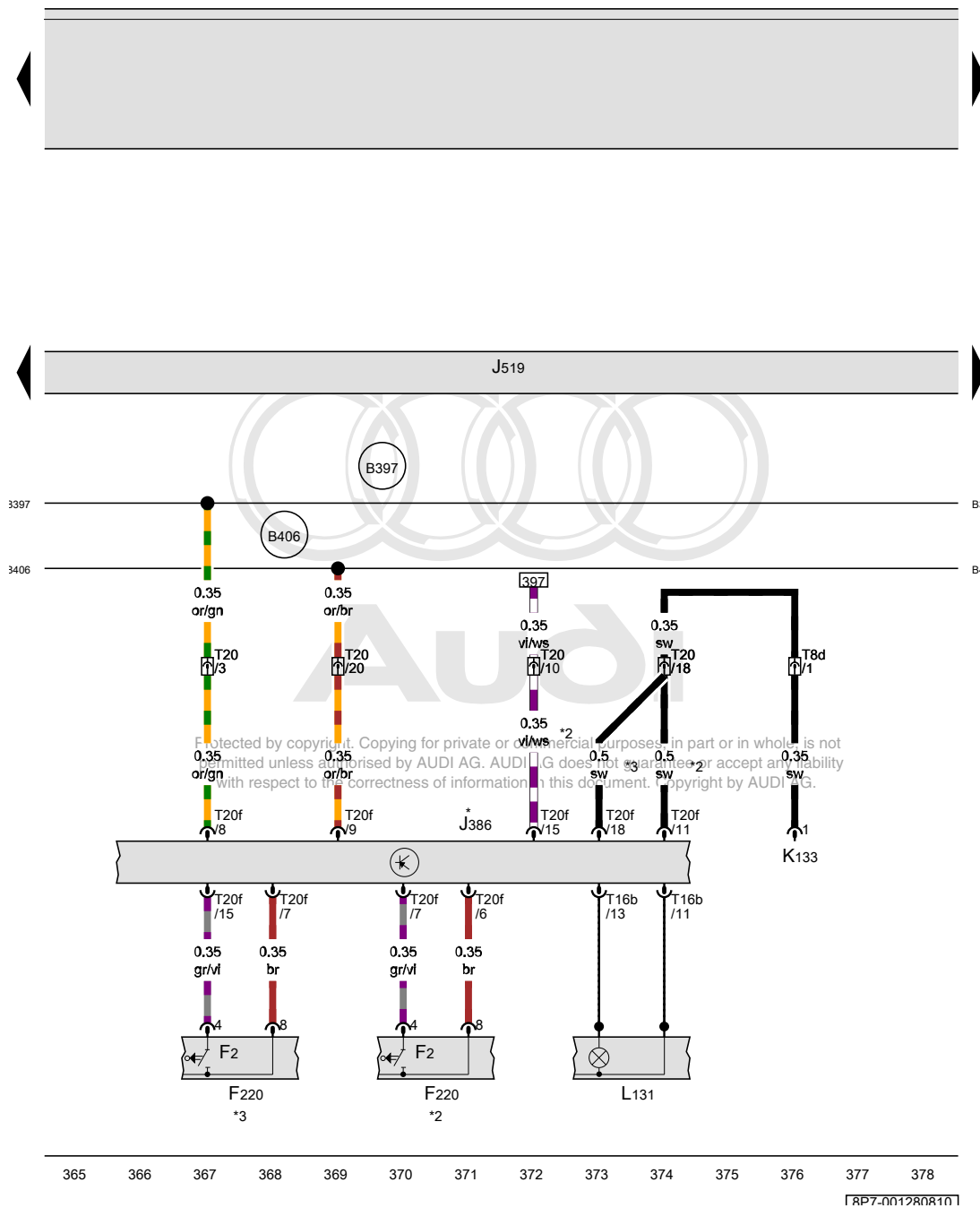


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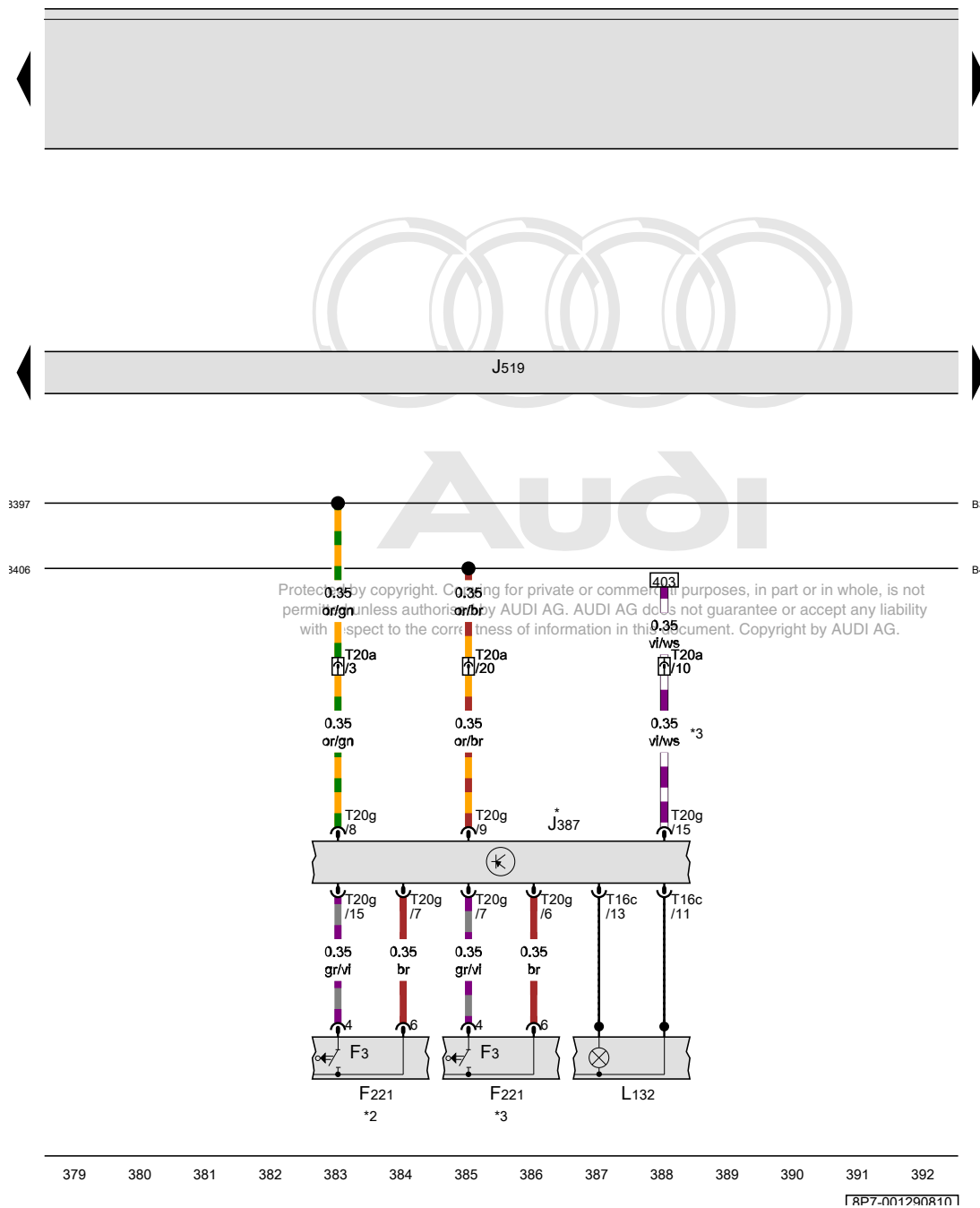
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Driver side central locking lock unit, Driver door control unit, Onboard supply control unit, Driver side turn signal repeater bulb

- F2 Driver door contact switch
- F220 Driver side central locking lock unit
- J386 Driver door control unit
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- L131 Driver side turn signal repeater bulb
- T8d 8-pin connector, behind centre console
- T16b 16-pin connector
- T20 20-pin connector, on left A-pillar
- T20f 20-pin connector
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * see applicable current flow diagram for convenience system
- *2 From May 2008
- *3 Up to April 2008

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



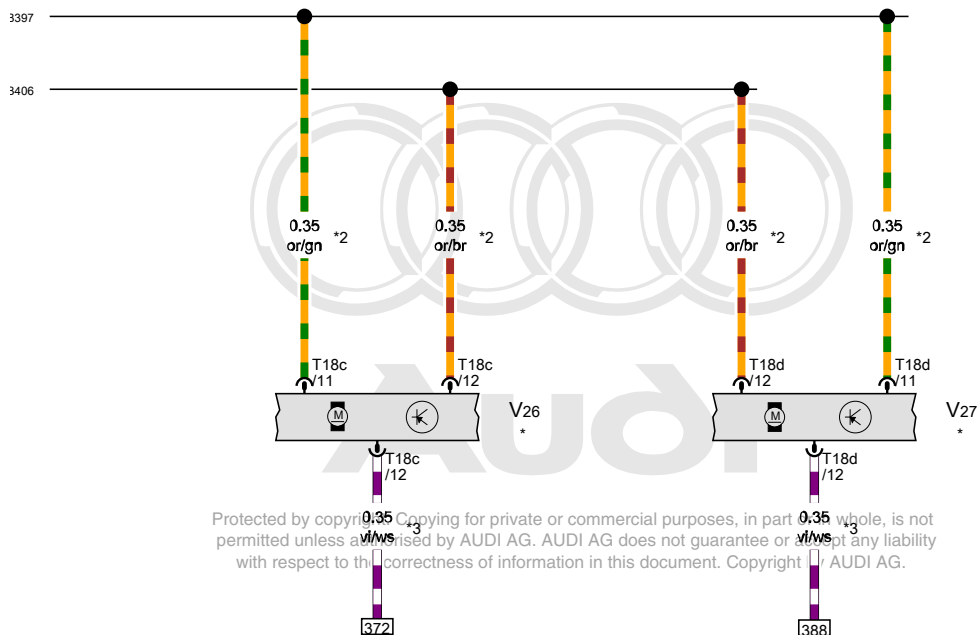
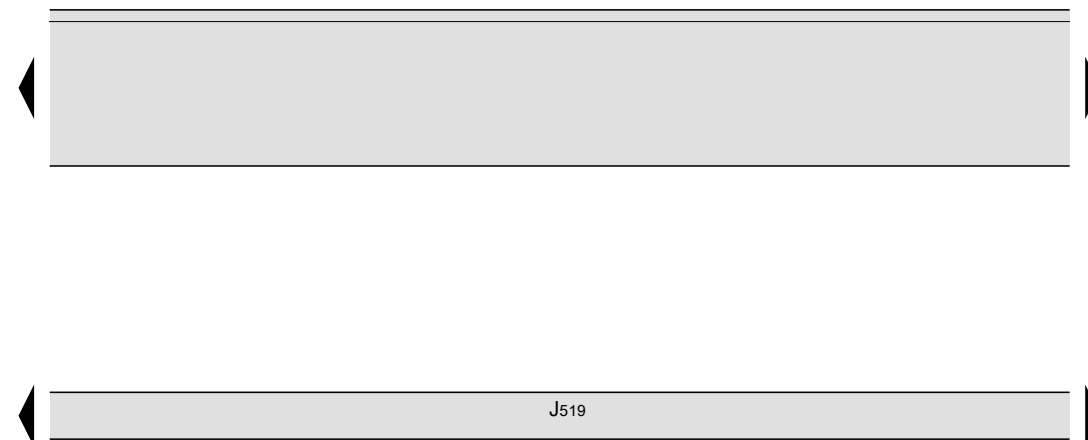
Front passenger side central locking lock unit, Front passenger door control unit, Onboard supply control unit, Front passenger side turn signal repeater bulb

- F3 Front passenger door contact switch
- F221 Front passenger side central locking lock unit
- J387 Front passenger door control unit
- J519 Onboard supply control unit
- L132 Front passenger side turn signal repeater bulb
- T16c 16-pin connector
- T20a 20-pin connector, on right A-pillar
- T20g 20-pin connector
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * see applicable current flow diagram for convenience system
- *2 Up to April 2008
- *3 From May 2008

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Onboard supply control unit, Rear left window regulator motor

- J519 Onboard supply control unit
- T18c 18-pin connector
- T18d 18-pin connector
- V26 Rear left window regulator motor
- V27 Rear right window regulator motor
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * see applicable current flow diagram for convenience system
- *2 Up to April 2008
- *3 From May 2008



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393 394 395 396 397 398 399 400 401 402 403 404 405 406

18P7-0013008101

Headlight washer system relay, Onboard supply control unit, Left fog light bulb, Right fog light bulb, Cigarette lighter, Headlight washer system pump

- J39 Headlight washer system relay
- J519 Onboard supply control unit
- L22 Left fog light bulb
- L23 Right fog light bulb
- L28 Cigarette lighter illumination bulb
- T11b 11-pin connector
- T11c 11-pin connector
- U1 Cigarette lighter
- V11 Headlight washer system pump

44 Earth point, lower part of left A-pillar

382 Earth connection 17, in main wiring harness

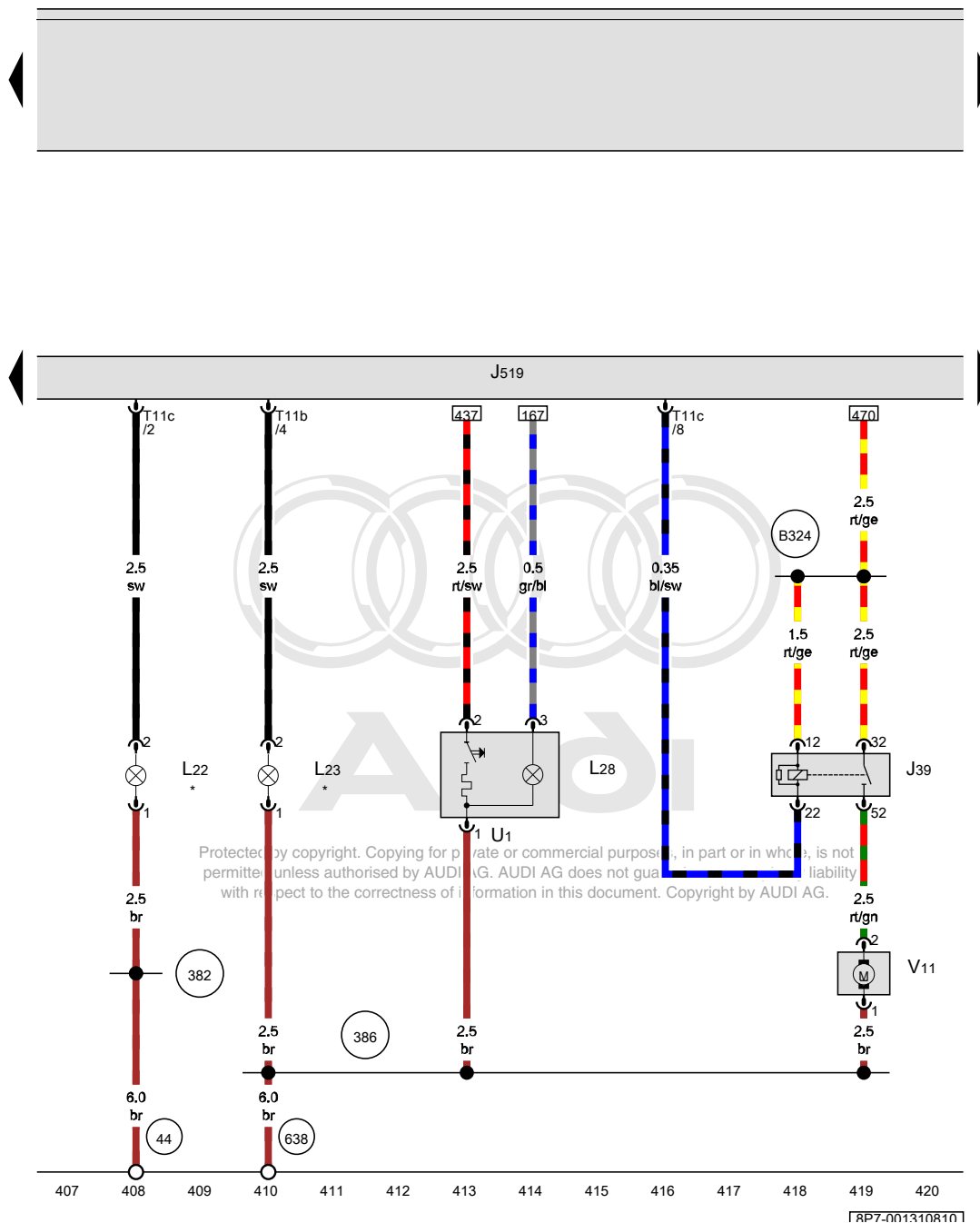
386 Earth connection 21, in main wiring harness

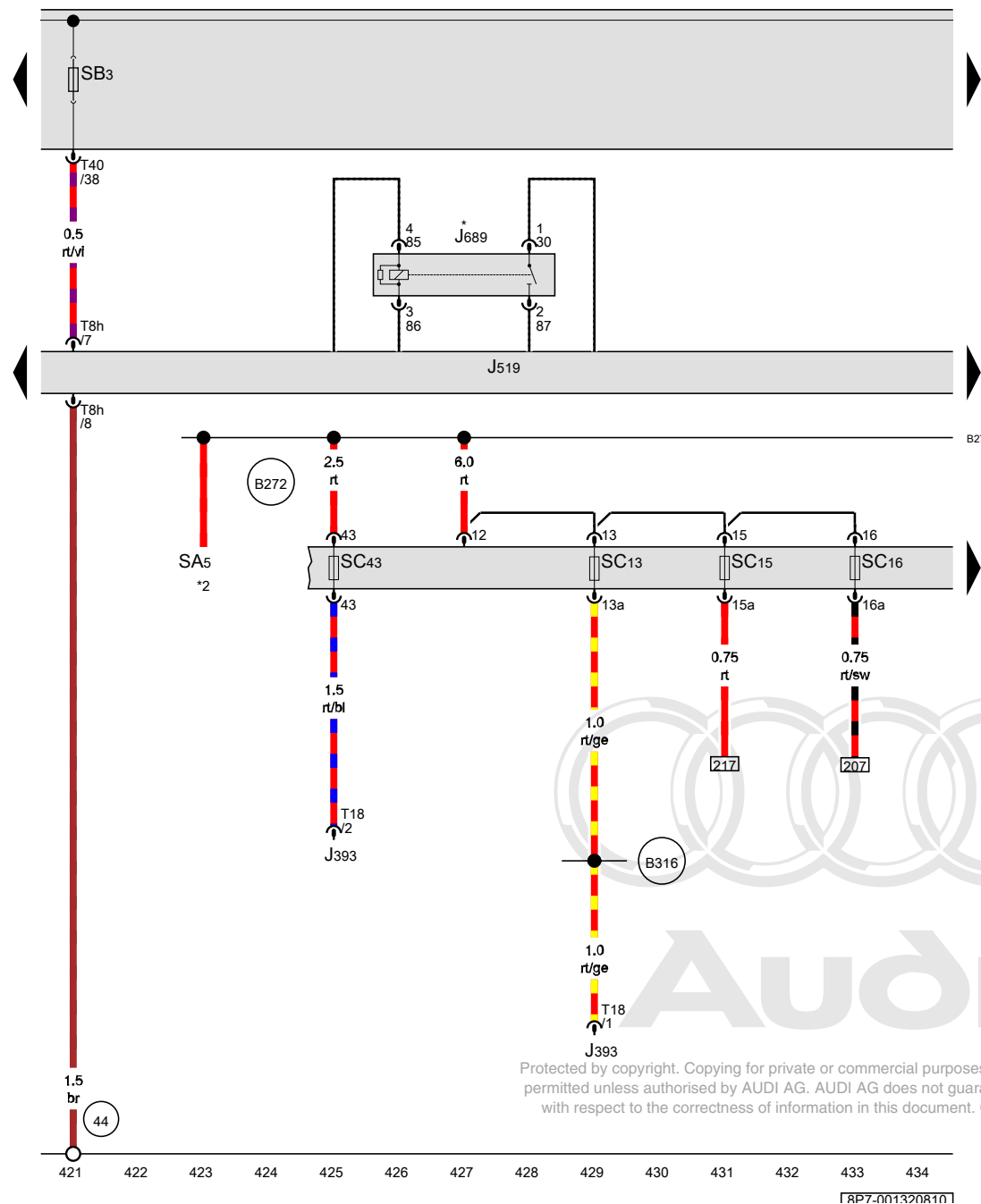
638 Earth point, on right A-pillar

B324 Positive connection 10 (30a) in main wiring harness

* Only models with fog lights

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gn = green
bl = blue
gr = grey
li = purple
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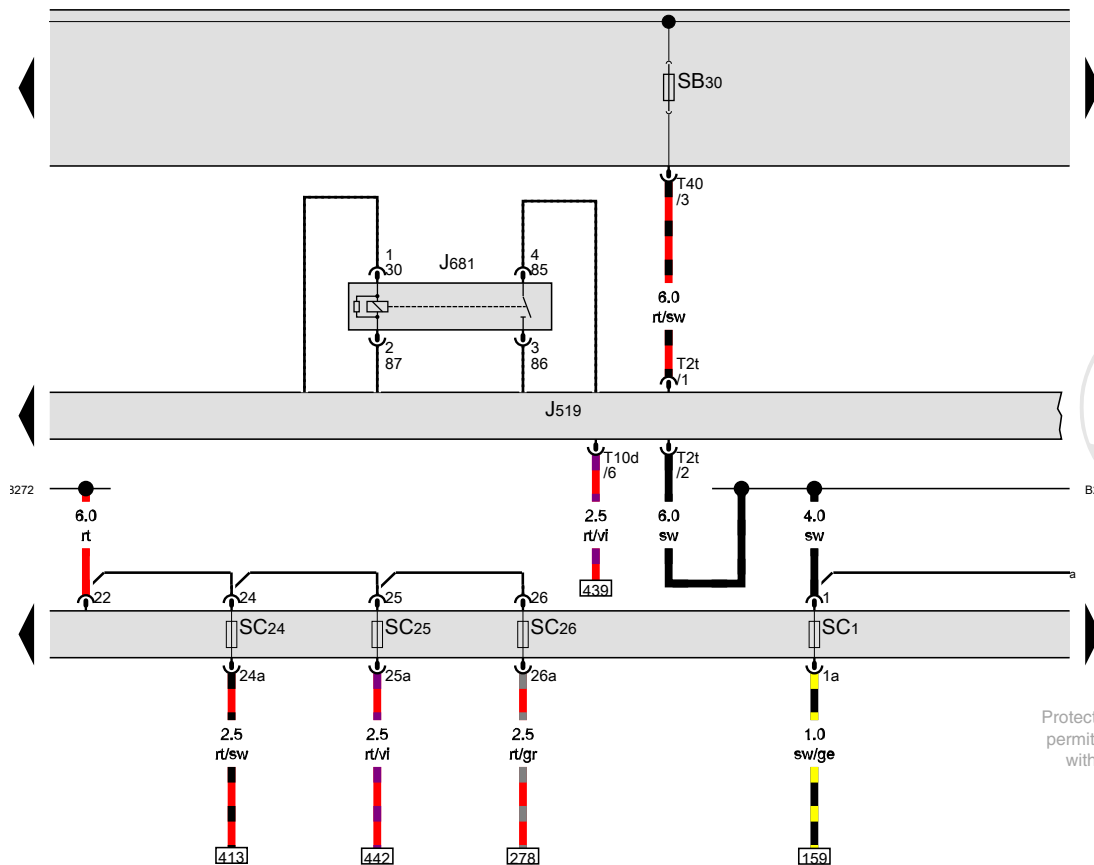
Onboard supply control unit, Terminal 30 voltage supply relay 2

- J393 Convenience system central control unit
- J519 Onboard supply control unit
- J689 Terminal 30 voltage supply relay 2
- SB3 Fuse 3 on fuse holder B
- SA5 Fuse 5 in fuse holder A
- SC13 Fuse 13 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- SC43 Fuse 43 on fuse holder C
- T8h 8-pin connector
- T18 18-pin connector
- T40 40-pin connector

- 44 Earth point, lower part of left A-pillar
- B272 Positive connection (30), in main wiring harness
- B316 Positive connection 2 (30a) in main wiring harness

- * Only models with interior light
- *2 see applicable current flow diagram for battery in engine compartment

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Onboard supply control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC1 Fuse 1 on fuse holder C
- SC24 Fuse 24 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- SC26 Fuse 26 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T10d 10-pin connector
- T40 40-pin connector

- B272 Positive connection (30), in main wiring harness
- B273 Positive connection (15), in main wiring harness

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Steering moment sender, Power steering control unit

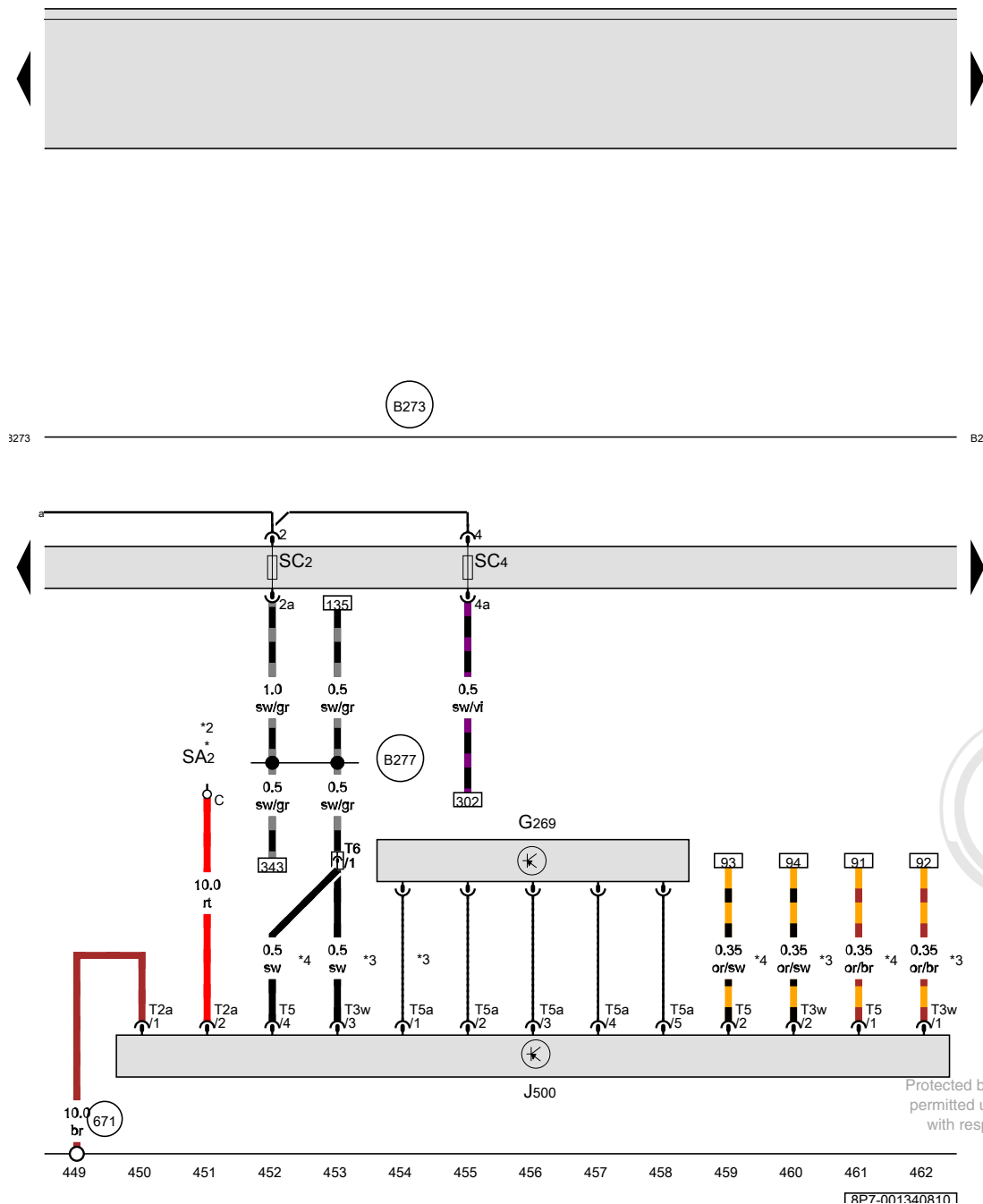
- G269 Steering moment sender
- J500 Power steering control unit
- SC2 Fuse 2 on fuse holder C
- SA2 Fuse 2 in fuse holder A
- SC4 Fuse 4 on fuse holder C
- T2a 2-pin connector
- T3w 3-pin connector
- T5 5-pin connector
- T5a 5-pin connector
- T6 6-pin connector, near front left longitudinal member

671 Earth point 1, on front of left longitudinal member

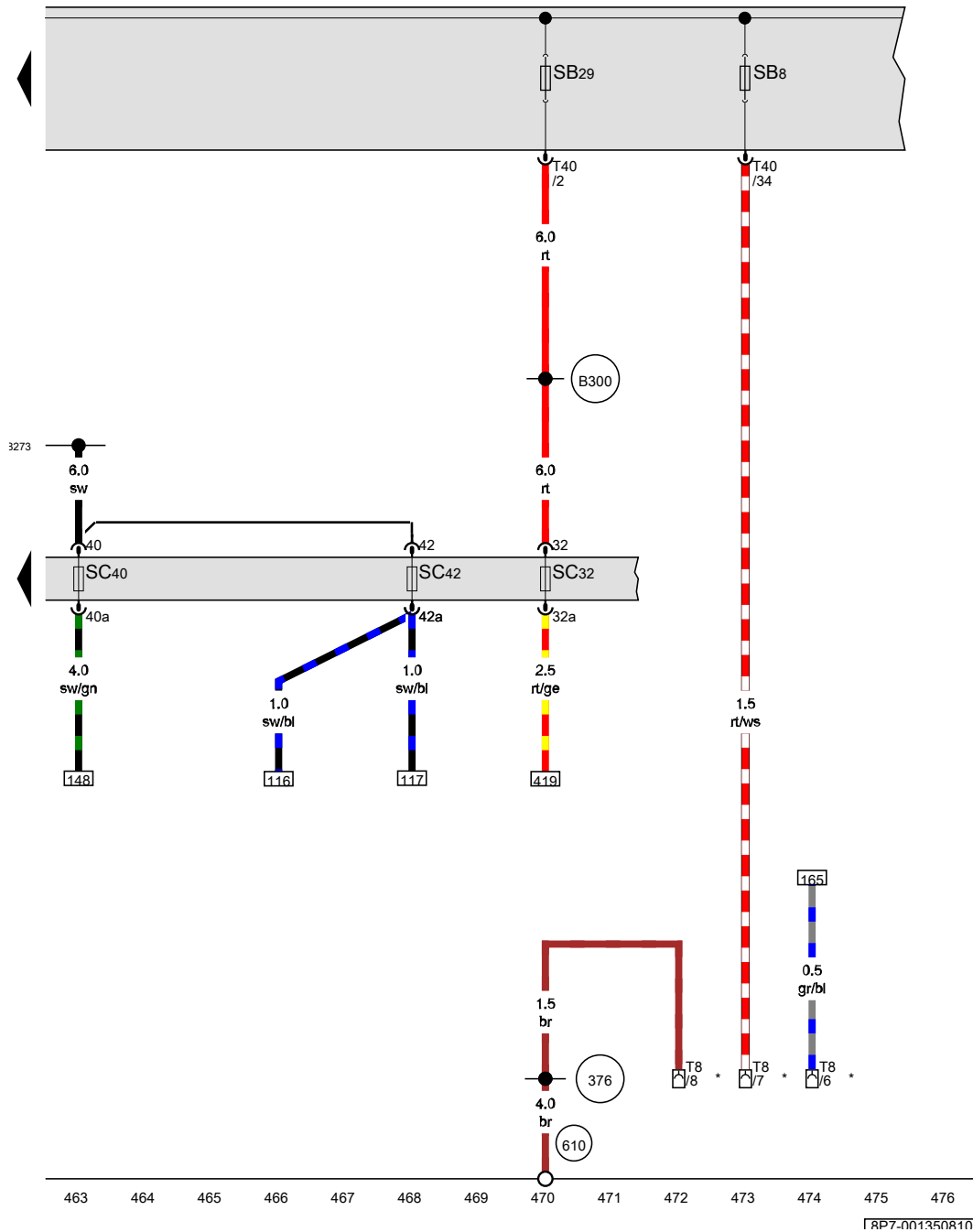
B273 Positive connection (15), in main wiring harness

B277 Positive connection 1 (15a) in main wiring harness

- * Only models with battery in engine compartment
- *2 see applicable current flow diagram
- *3 From May 2008
- *4 Up to April 2008



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Fuse 42 on fuse holder C

SB8 Fuse 8 on fuse holder B

SB29 Fuse 29 on fuse holder B

SC32 Fuse 32 on fuse holder C

SC40 Fuse 40 on fuse holder C

SC42 Fuse 42 on fuse holder C

T8 8-pin connector

T40 40-pin connector

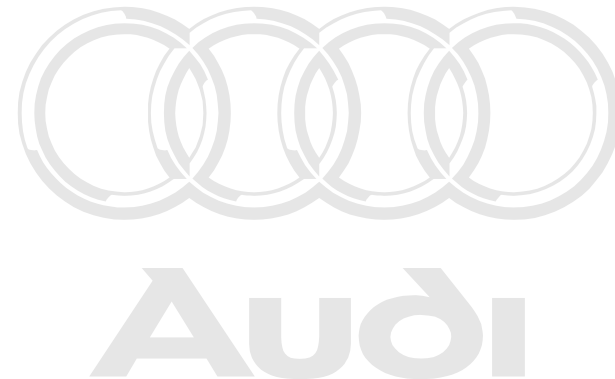
376 Earth connection 11, in main wiring harness

610 Earth point (audio), front below centre console

B273 Positive connection (15), in main wiring harness

B300 Positive connection 4 (30), in main wiring harness

* Only models with preparation for radio



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[AP7-001350810]



Convenience system

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

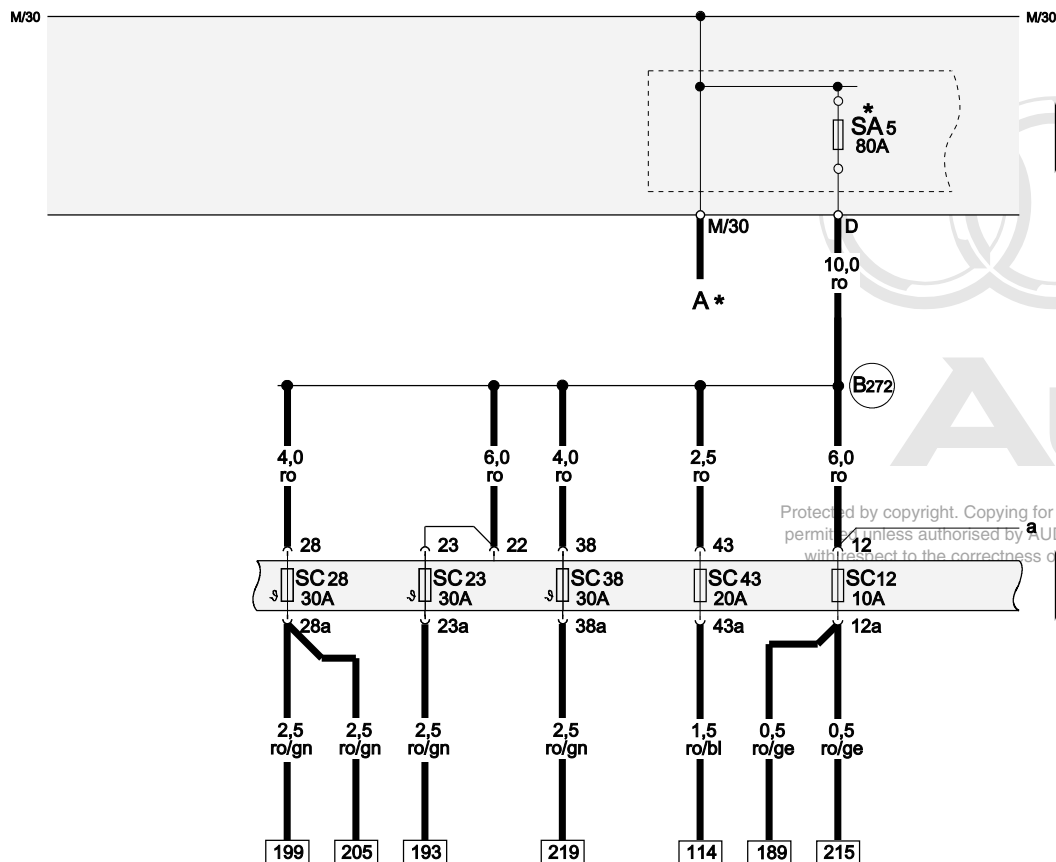
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder

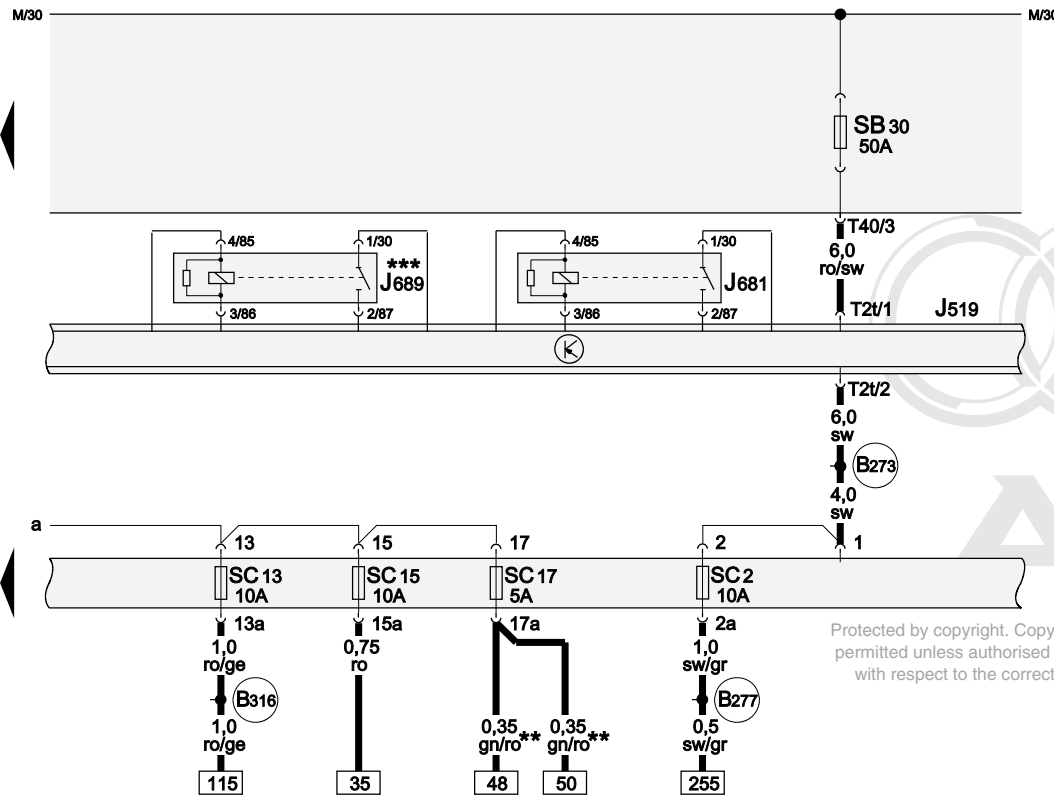
A	Battery
SA5	Fuse 5 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC28	Fuse 28 on fuse holder C
SC38	Fuse 38 on fuse holder C
SC43	Fuse 43 on fuse holder C

B272 Positive connection (30), in main wiring harness

* ⇒ applicable Current Flow Diagram with battery in engine compartment

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Fuses on fuse holder, terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J689 Terminal 30 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC17 Fuse 17 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

B273 Positive connection (15), in main wiring harness

B277 Positive connection 1 (15a), in main wiring harness

B316 Positive connection 2 (30a), in main wiring harness

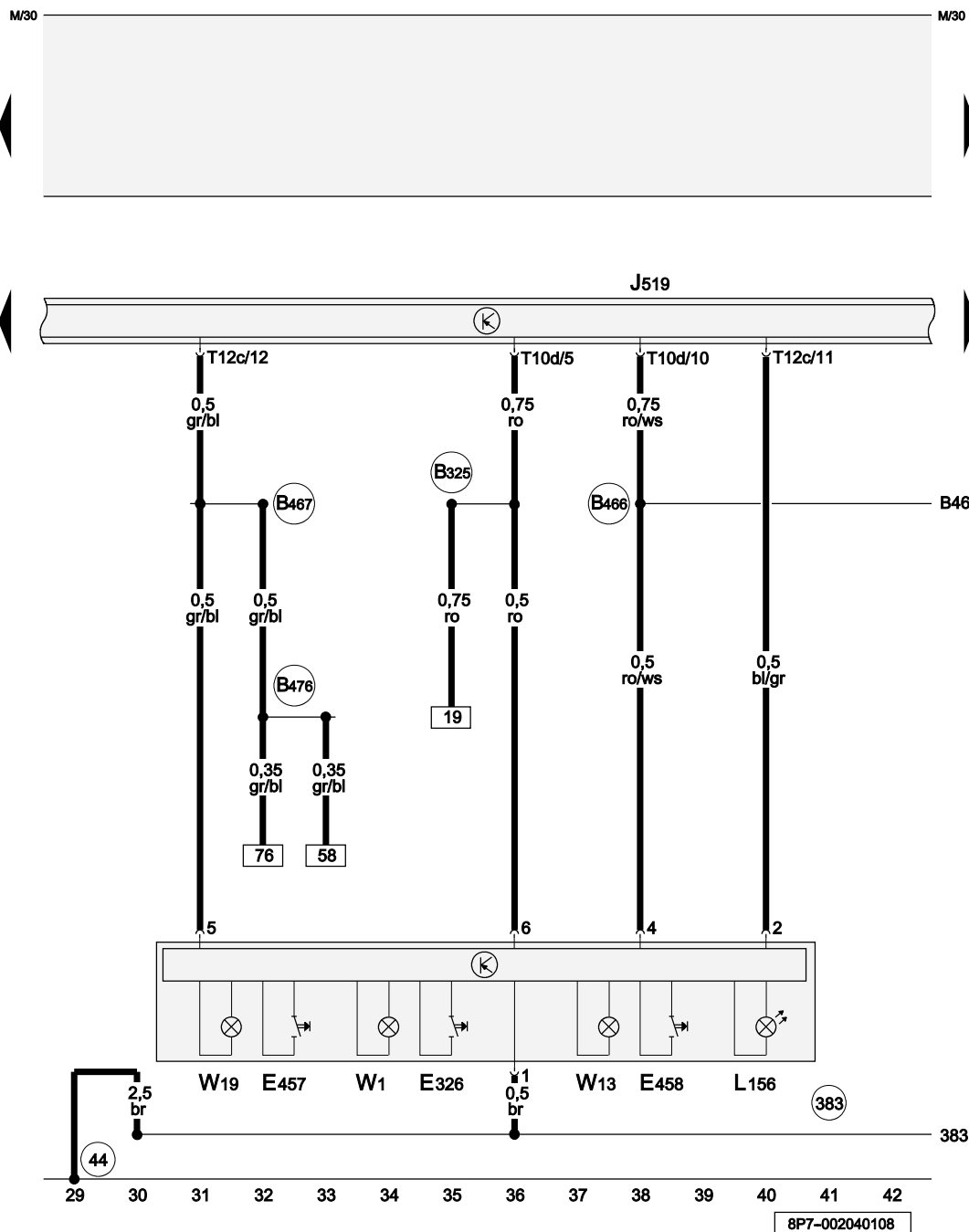
** for models with anti-theft alarm system only
*** for models with interior light only

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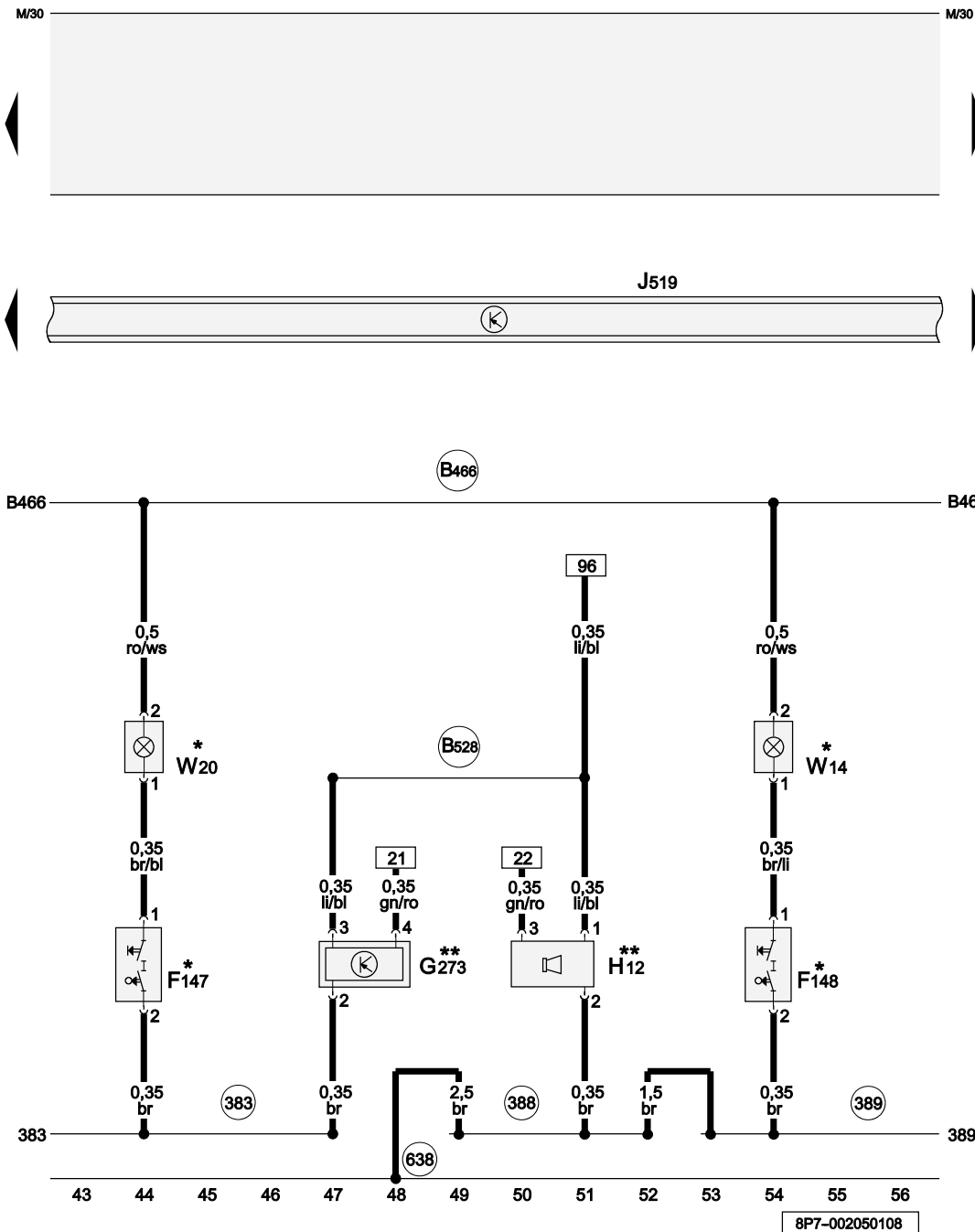


Front interior light with reading lights

- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- L156 Switch illumination bulb
- T10d 10-pin connector, black (connector K)
- T12c 12-pin connector, black (connector B)
- W1 Front interior light
- W13 Front passenger side reading light
- W19 Driver side reading light
- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- B325 Positive connection 11 (30a), in main wiring harness
- B466 Connection 2 in main wiring harness
- B467 Connection 3 in main wiring harness
- B476 Connection 12 in main wiring harness

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Vanity mirror contact switch, interior monitoring sensor, alarm horn

- F147 Driver vanity mirror contact switch
- F148 Front passenger side vanity mirror contact switch
- G273 Interior monitoring sensor
- H12 Alarm horn
- J519 Onboard supply control unit
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror

383 Earth connection 18, in main wiring harness

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

638 Earth point, right A-pillar

B466 Connection 2 in main wiring harness

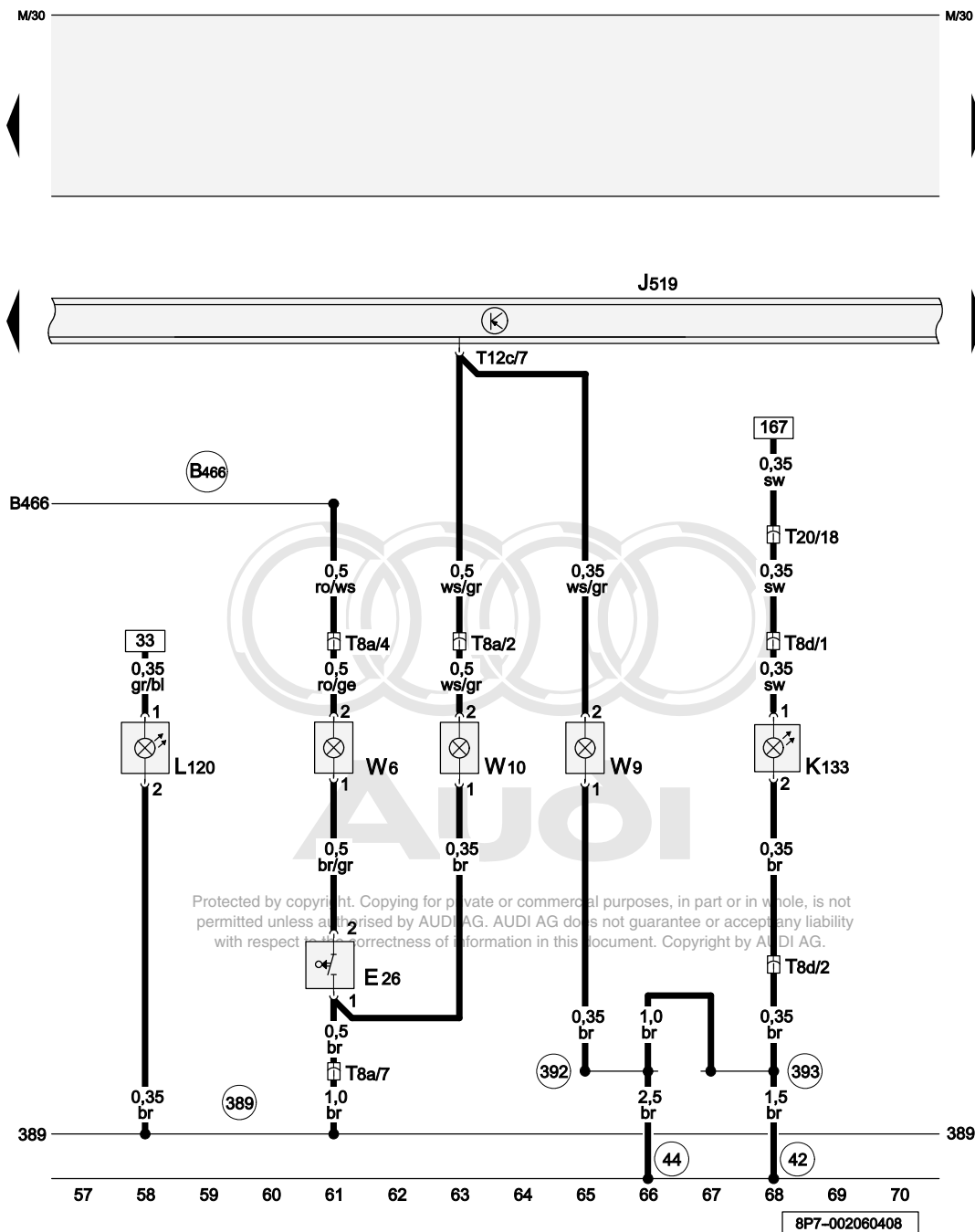
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B528 Connection 1 (LIN bus), in main wiring harness

* for models with illuminated vanity mirror without garage door operation only

** for models with anti-theft alarm system only

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gr = grey
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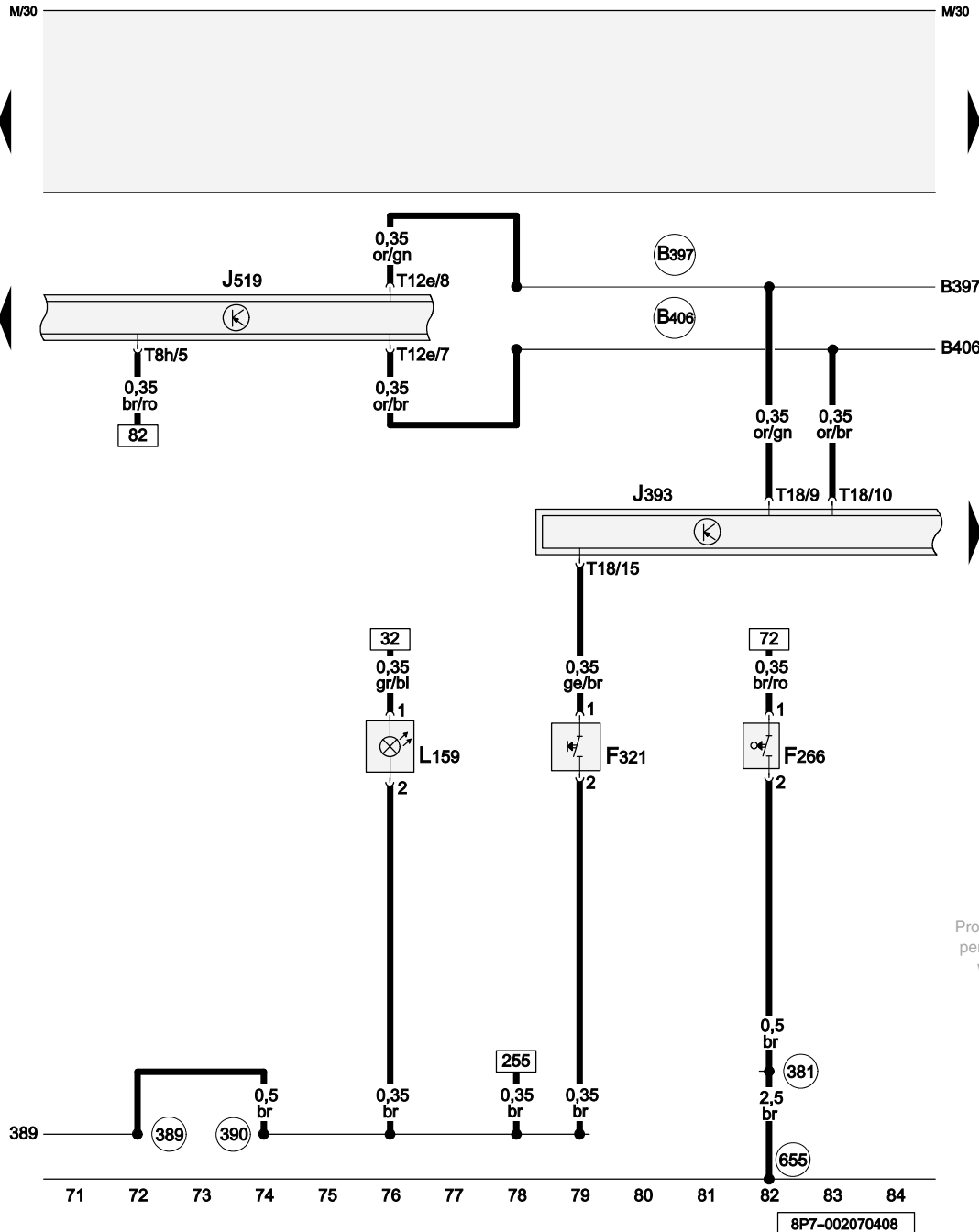


Storage compartment illumination, footwell lights, glove compartment light, central locking deadlock function warning lamp -SAFE-

- E26 Glove compartment light switch
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp
- L120 Storage compartment illumination bulb
- T8a 8-connector, black, near glove compartment
- T8d 8-pin connector, black, behind centre console
- T12c 12-pin connector, black (connector B)
- T20 20-pin connector, black, door A-pillar left
- W6 Glove compartment light
- W9 Left footwell light
- W10 Right footwell light

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 389 Earth connection 24, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B466 Connection 2 in main wiring harness

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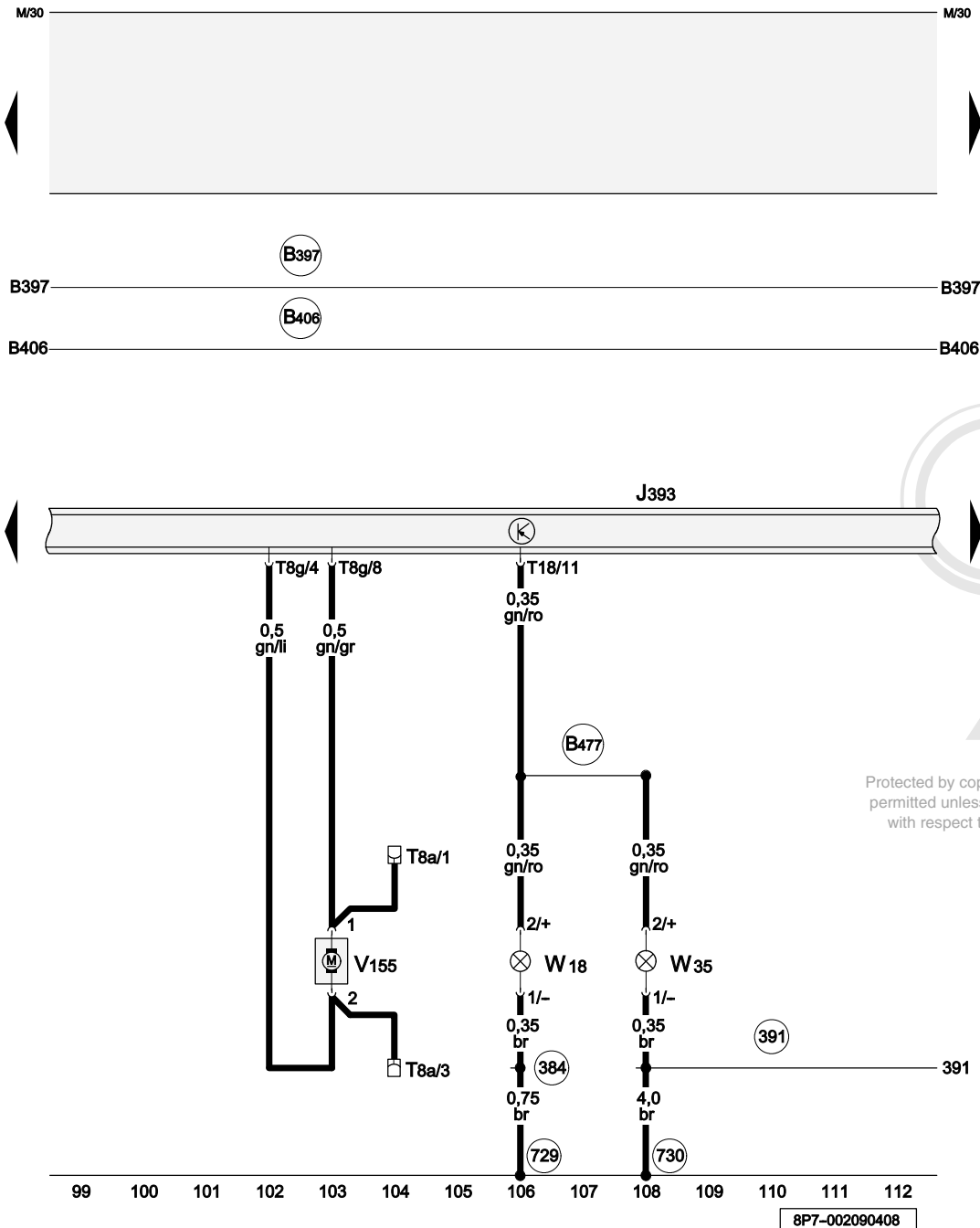
Storage compartment illumination, parking brake contact switch, bonnet contact switch

- F266 Bonnet contact switch
- F321 Parking brake contact switch
- J393 Convenience system central control unit
- J519 Onboard supply control unit
- L159 Centre console storage compartment illumination
- T8h 8-pin connector, black (connector F)
- T12e 12-pin connector, black (connector G)
- T18 18-pin connector, brown (connector A)

- 381 Earth connection 16, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 655 Earth point, on left headlight
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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Tank filler flap locking motor, luggage compartment lights

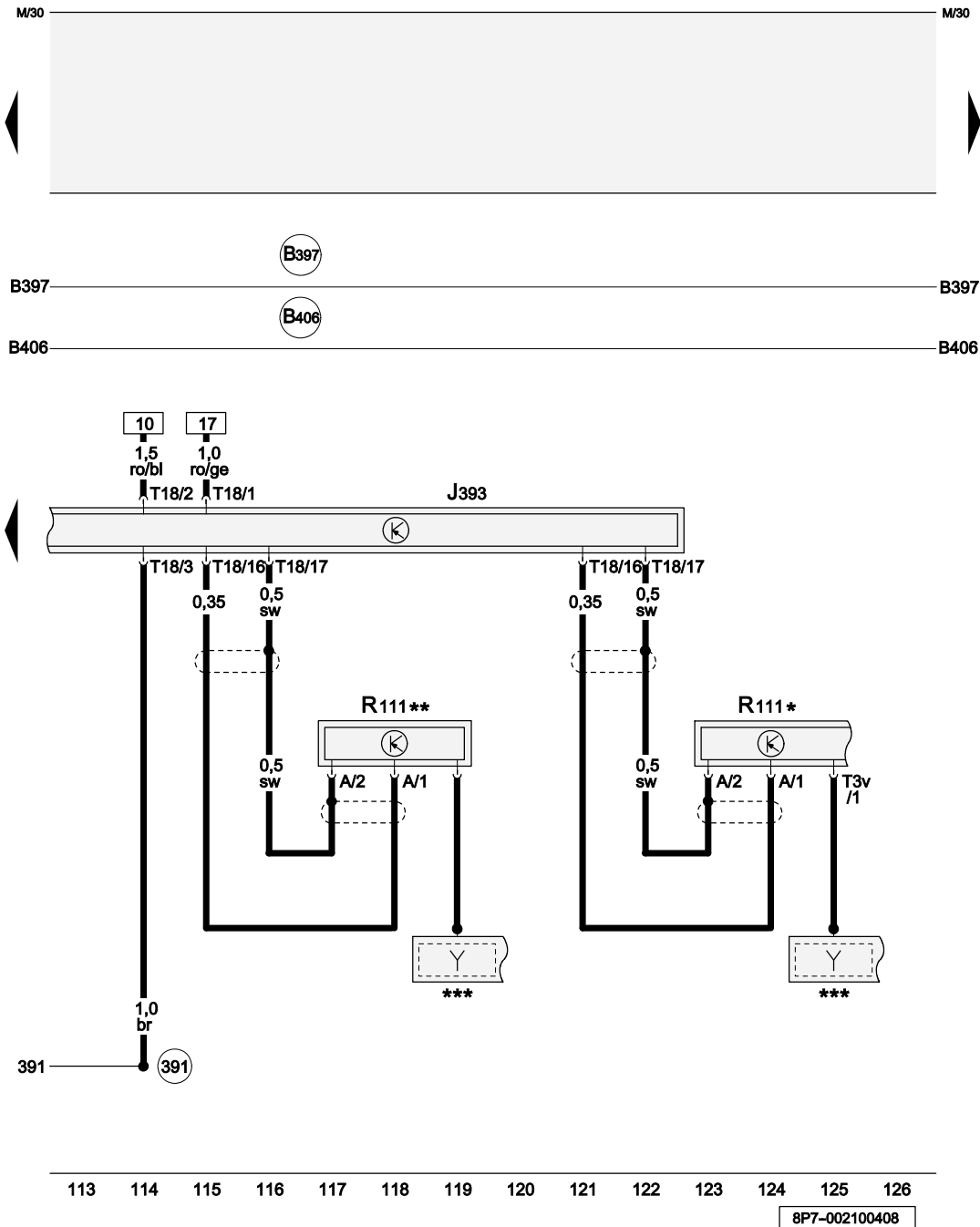
- J393 Convenience system central control unit
- T8a 8-connector, black, near glove compartment
- T8g 8-pin connector, black (connector B)
- T18 18-pin connector, brown (connector A)
- V155 Tank filler flap locking motor
- W18 Luggage compartment light on left
- W35 Right luggage compartment light

- 384 Earth connection 19, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 729 Earth point, on rear left wheel housing
- 730 Earth point 1 on rear right wheel housing
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B477 Connection 13 in main wiring harness

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Aerials

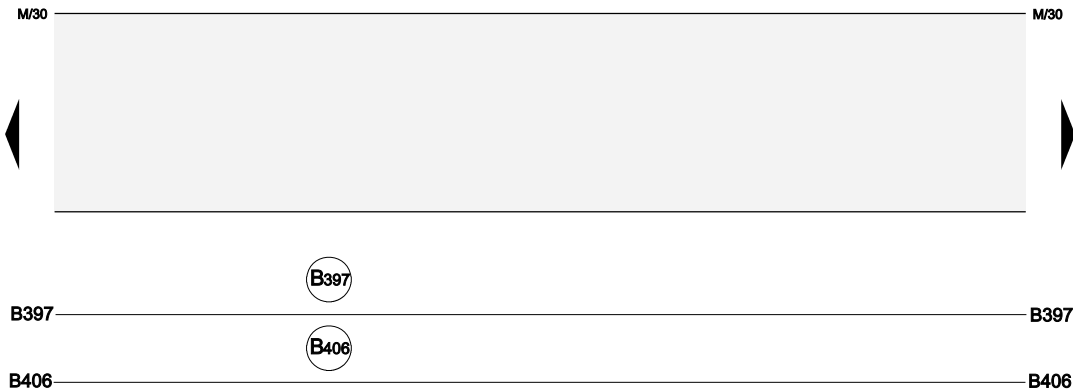
- J393 Convenience system central control unit
- R111 Aerial amplifier 2
- T3v 3-pin connector
- T18 18-pin connector, brown (connector A)

- 391 Earth connection 26, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * for models with radio or radio navigation system only
- ** not for models with radio or radio navigation system
- *** on front right windscreen



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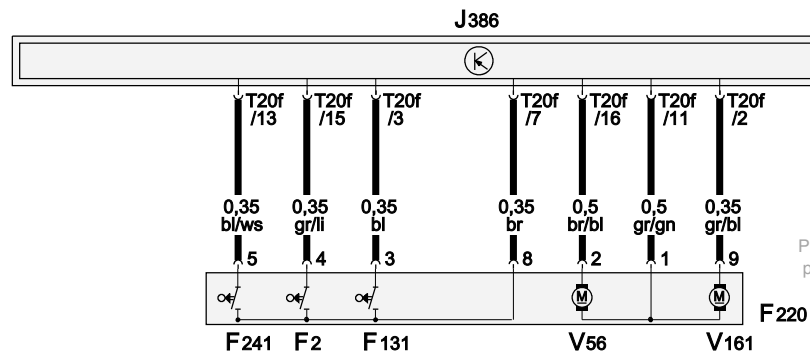


Driver side central locking lock unit

- F2 Driver door contact switch
- F131 Front left central locking actuator
- F220 Driver side central locking lock unit
- F241 Driver side contact switch in lock cylinder
- J386 Driver door control unit
- T20f 20-pin connector, black (connector A)
- V56 Driver door central locking motor
- V161 Driver door central locking deadlock function motor

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

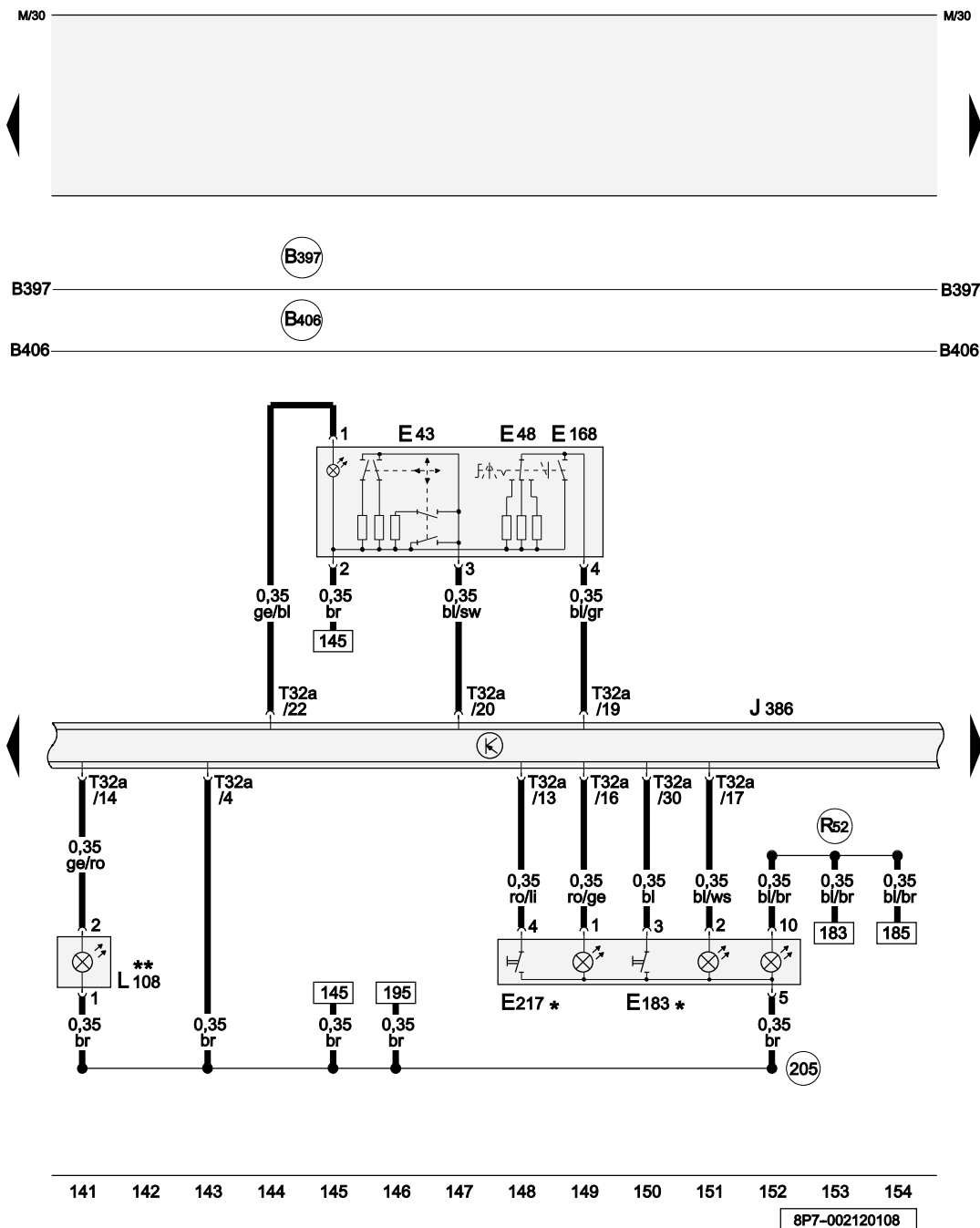


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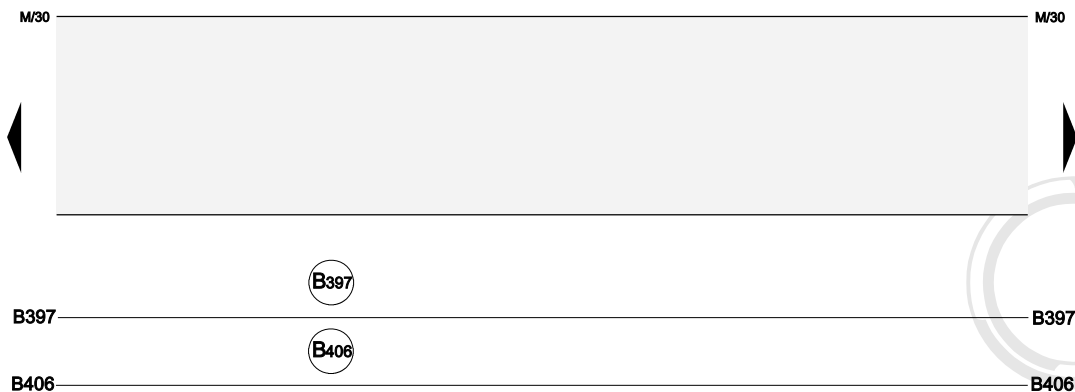


Mirror adjustment switch, alarm system off switch

- | | |
|------|--|
| E43 | Mirror adjustment switch |
| E48 | Mirror adjustment change-over switch |
| E168 | Adjustment switch for mirror with fold-in feature |
| E183 | Interior monitoring deactivation switch |
| E217 | Alarm system off switch |
| J386 | Driver door control unit |
| L108 | Driver door opener illumination bulb |
| T32a | 32-pin connector, grey (connector C) |
| 205 | Earth connection, in driver door wiring harness |
| B397 | Connection 1 (convenience CAN bus, high), in main wiring harness |
| B406 | Connection 1 (convenience CAN bus, low), in main wiring harness |
| R52 | Connection (58s), in driver side door wiring harness |
| * | for models with interior monitor only |
| ** | for models with driver door opener illumination bulb only |

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Front left entry light, interior locking button, driver side, door warning lamp, driver side

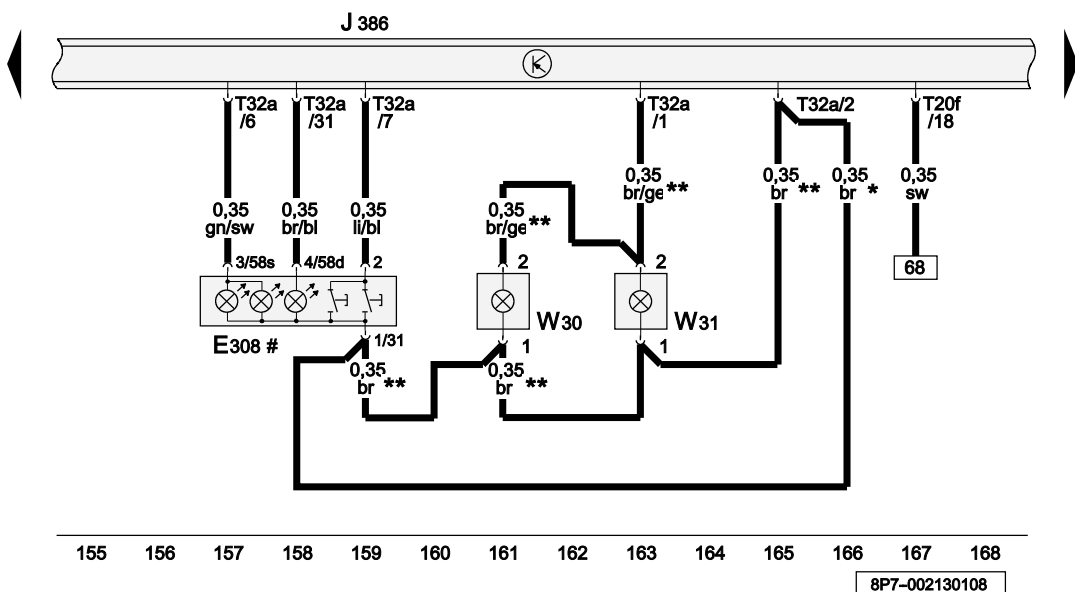
- E308 Driver side interior locking button
- J386 Driver door control unit
- T20f 20-pin connector, black (connector A)
- T32a 32-pin connector, grey (connector C)
- W30 Driver side door warning lamp
- W31 Front left entry light

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

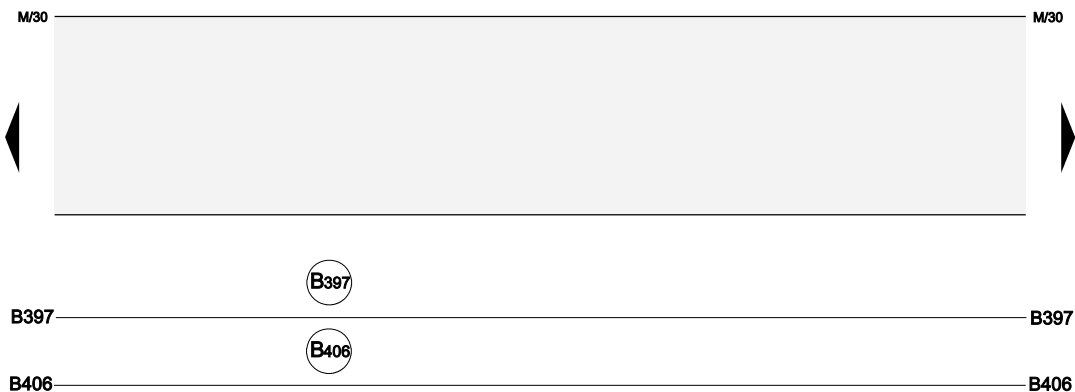
B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models without entry warning lamp and door warning lamp only
- ** for models with entry warning lamp and door warning lamp only
- # E150 is replaced by E308

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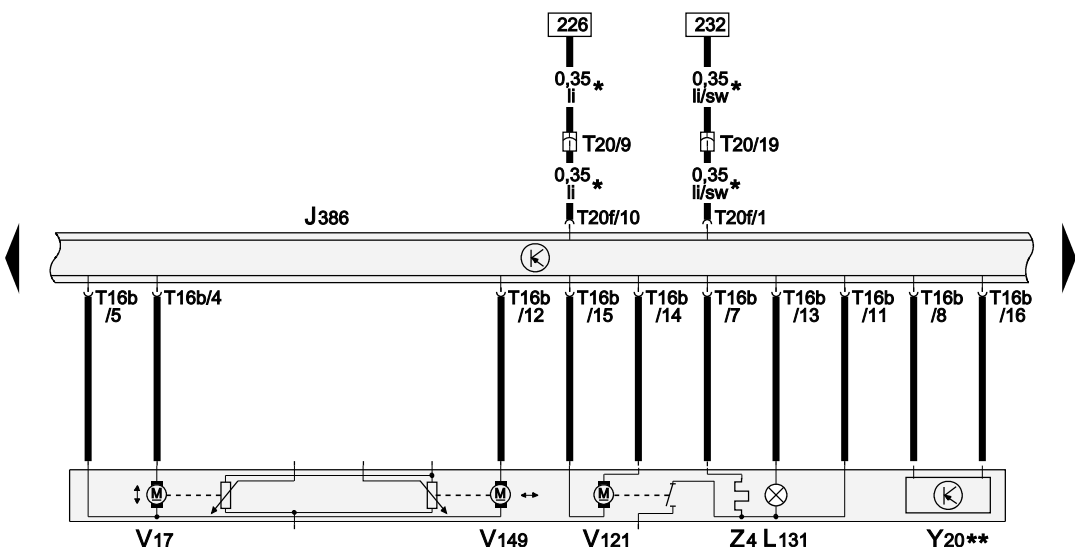
Driver side mirror adjustment motor/fold-in mirror motor, driver side exterior mirror turn signal bulb

- J386 Driver door control unit
- L131 Driver side exterior mirror turn signal bulb
- T16b 16-pin connector, (connector B)
- T20 20-pin connector, black, door A-pillar left
- T20f 20-pin connector, black (connector A)
- V17 Driver side mirror adjustment motor
- V121 Driver side fold-in mirror motor
- V149 Driver side mirror adjustment motor
- Y20 Driver side automatic anti-dazzle exterior mirror
- Z4 Driver side heated exterior mirror

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models with automatic anti-dazzle interior mirror only
- ** for models with automatic anti-dazzle exterior mirror only

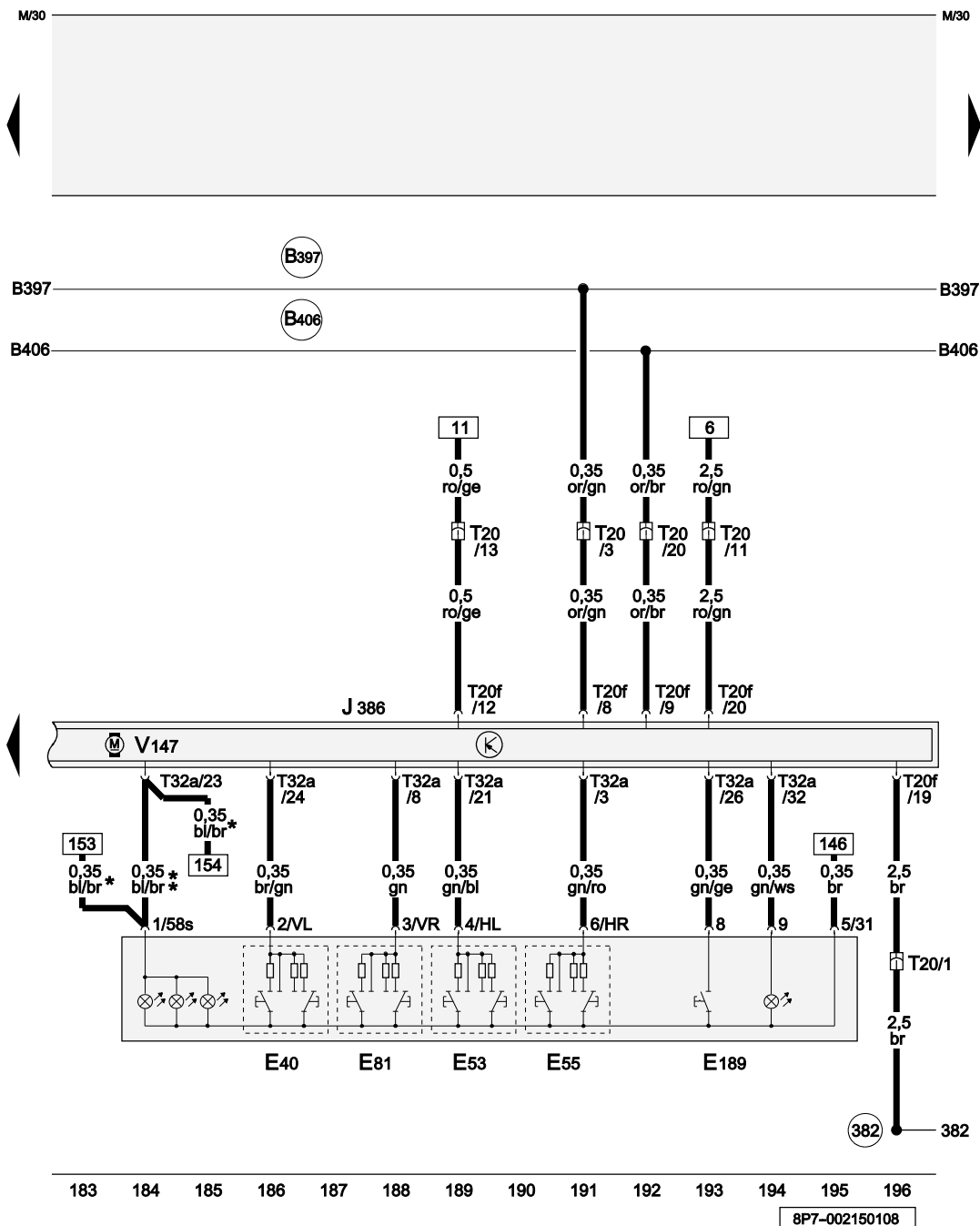


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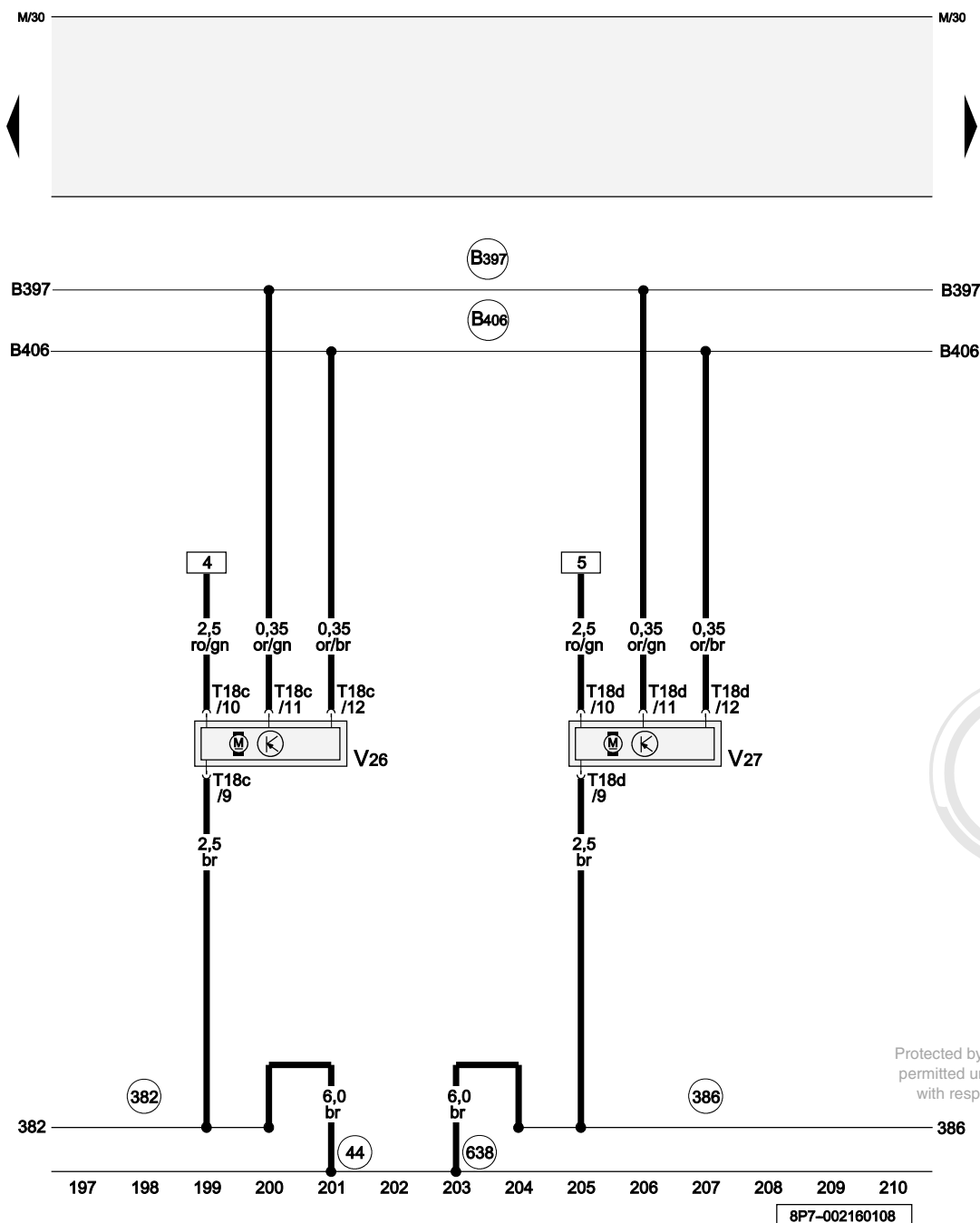


Window regulator switch, driver side

- E40 Front left window regulator switch
- E53 Rear left window regulator switch, in driver door
- E55 Rear right window regulator switch, in driver door
- E81 Front right window regulator switch in driver door
- E189 Central switch for window regulators in driver door
- J386 Driver door control unit
- T20 20-pin connector, black, door A-pillar left
- T20f 20-pin connector, black (connector A)
- T32a 32-pin connector, grey (connector C)
- V147 Driver side window regulator motor

- 382 Earth connection 17, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * for models with interior monitor only
- ** for models without interior monitor only

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Rear window regulator motor

T18c 18-pin connector, white (connector A)

T18d 18-pin connector, white (connector A)

V26 Rear left window regulator motor

V27 Rear right window regulator motor

44 Earth point, lower part of left A-pillar

(382) Earth connection 17, in main wiring harness

(386) Earth connection 21, in main wiring harness

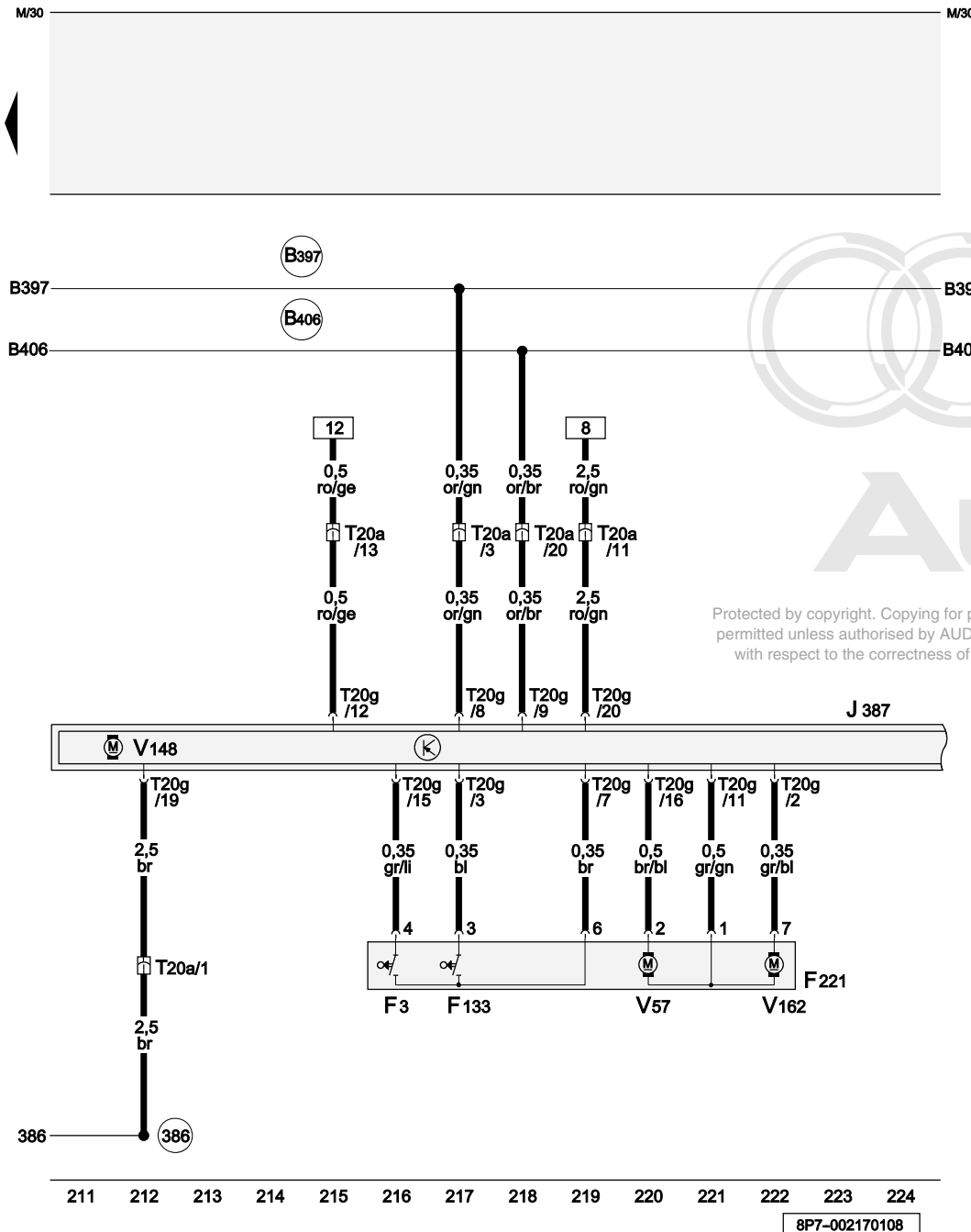
(638) Earth point, right A-pillar

(B397) Connection 1 (convenience CAN bus, high), in main wiring harness

(B406) Connection 1 (convenience CAN bus, low), in main wiring harness

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

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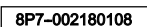
Front passenger side central locking lock unit

- F3 Front passenger door contact switch
- F133 Front right central locking actuator
- F221 Front passenger side central locking lock unit
- J387 Front passenger door control unit
- T20a 20-pin connector, black, door A-pillar right
- T20g 20-pin connector, black (connector A)
- V57 Front passenger door central locking motor
- V148 Front passenger side window regulator motor
- V162 Front passenger door central locking deadlock function motor

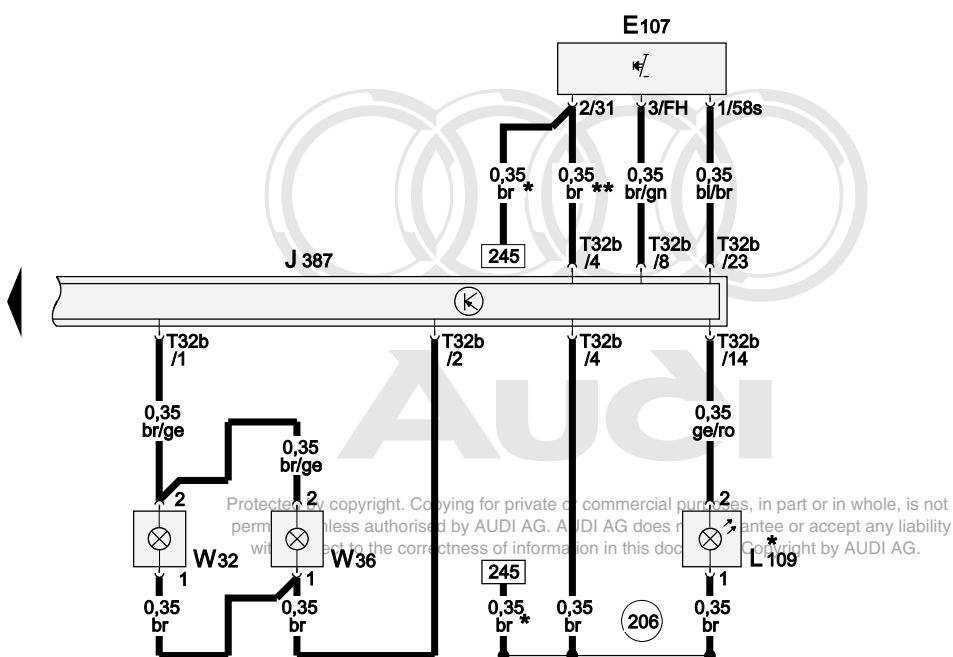
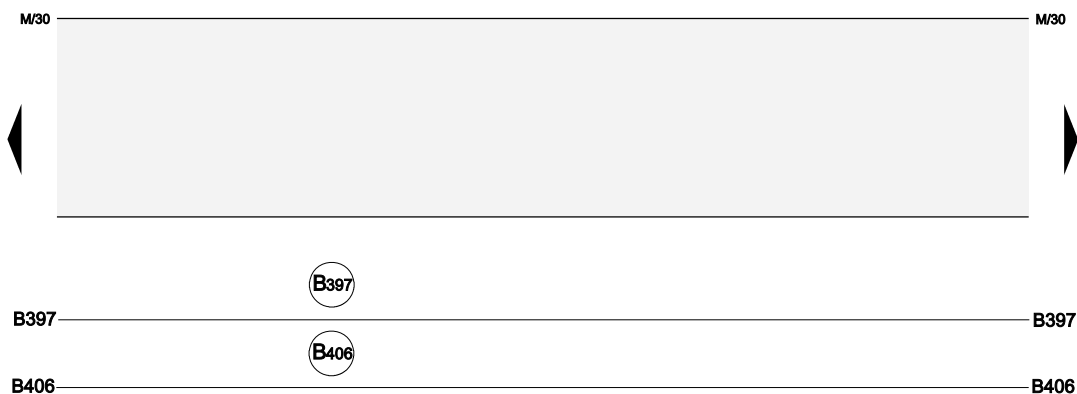
- 386 Earth connection 21, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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Front right entry light, front passenger side door warning lamp,
window regulator switch in front passenger door

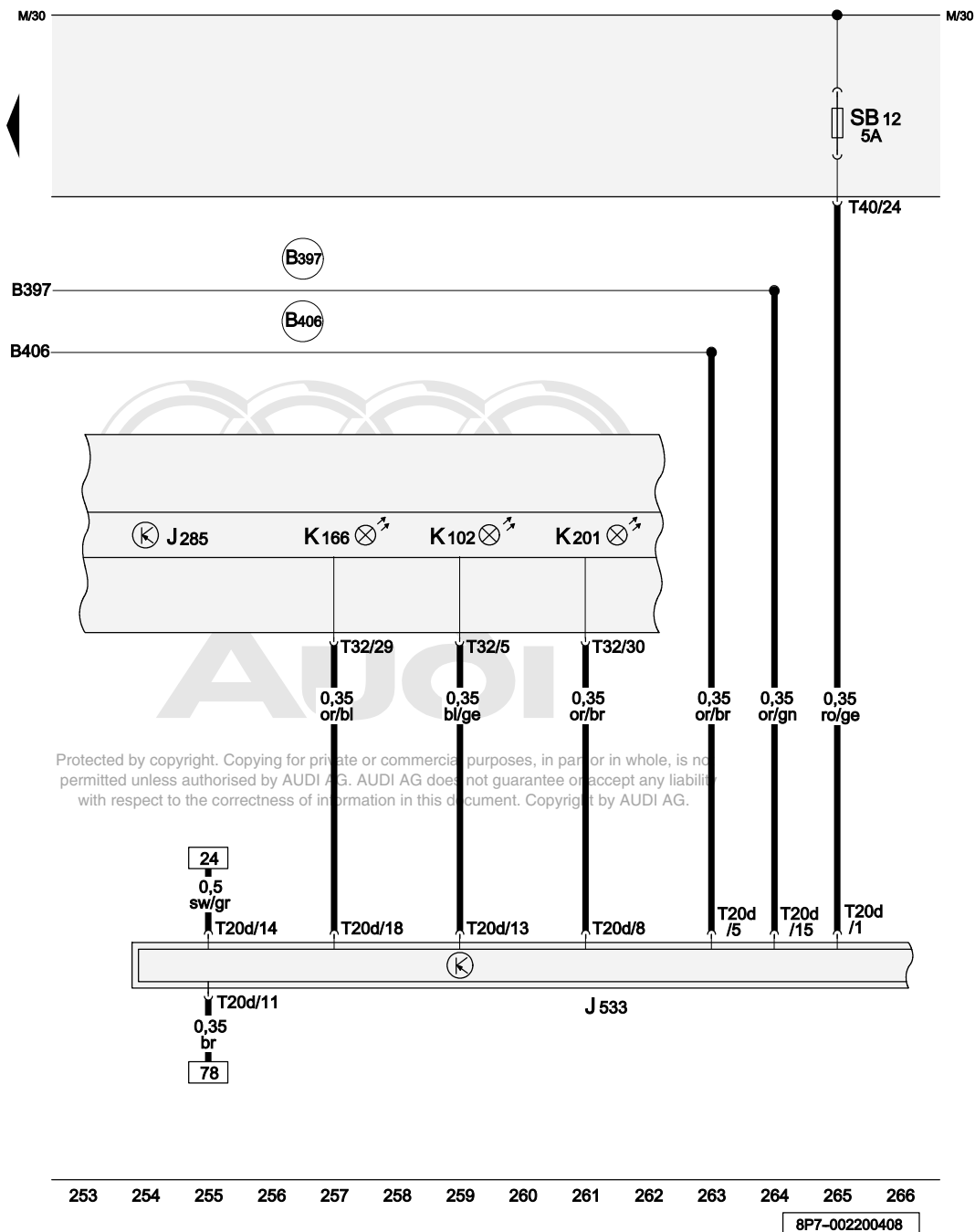
E107	Window regulator switch in front passenger door
J387	Front passenger door control unit
L109	Front passenger door opener illumination bulb
T32b	32-pin connector, grey (connector C)
W32	Front right entry light
W36	Front passenger side door warning lamp

(206) Earth connection, in door wiring harness, front passenger side

(B397) Connection 1 (convenience CAN bus, high), in main wiring harness

(B406) Connection 1 (convenience CAN bus, low), in main wiring harness

* for models with front passenger side door opener illumination only
 ** for models without front passenger side door opener illumination only



Control unit in dash panel insert, data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K102 Rear lid closed warning lamp
- K166 Door open warning lamp
- K201 Fuel tank flap lock warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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1.9 l - Diesel engine (77 kW - unit injectors - 4 cylinder), engine code BLS

from March 2008

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



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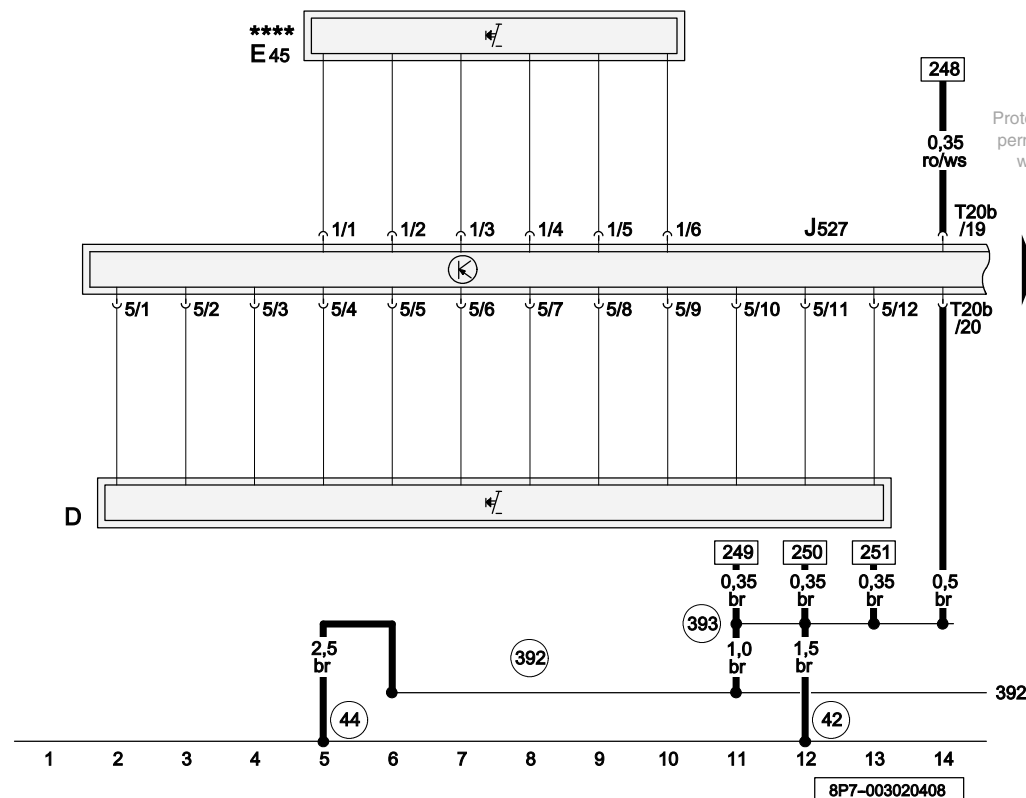


M/30

M/30

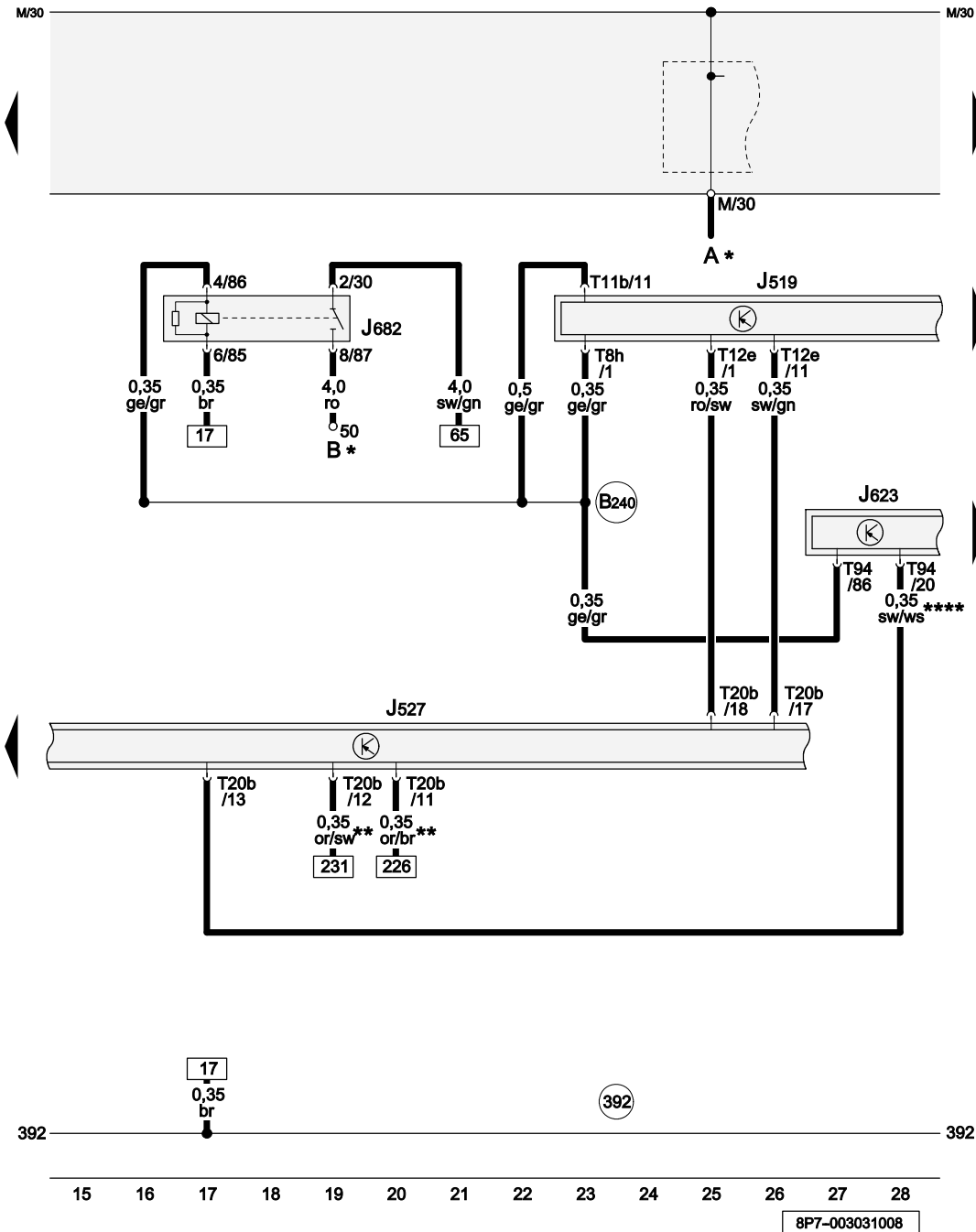
Cruise control system switch, ignition/starter switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- T20b 20-pin connector, black (connector A)
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- **** for models with cruise control system only



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Electronics box supply, terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T8h 8-pin connector, black (connector F)
- T11b 11-pin connector, black (connector A)
- T12e 12-pin connector, black (connector G)
- T20b 20-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

392 Earth connection 27, in main wiring harness

B240 Positive connection 2 (50), in interior wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

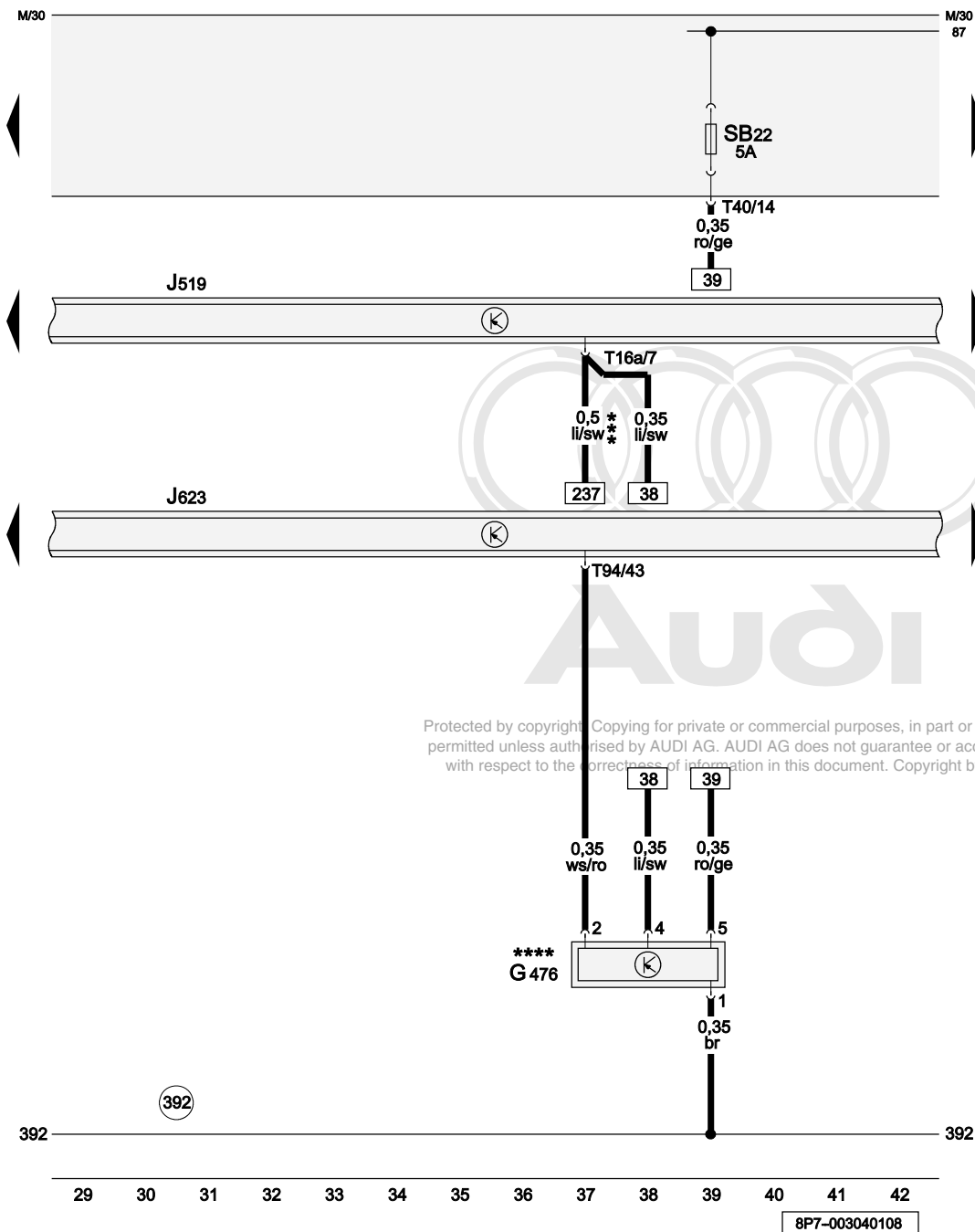
** for models with CAN bus drive train only

**** for models with cruise control system only



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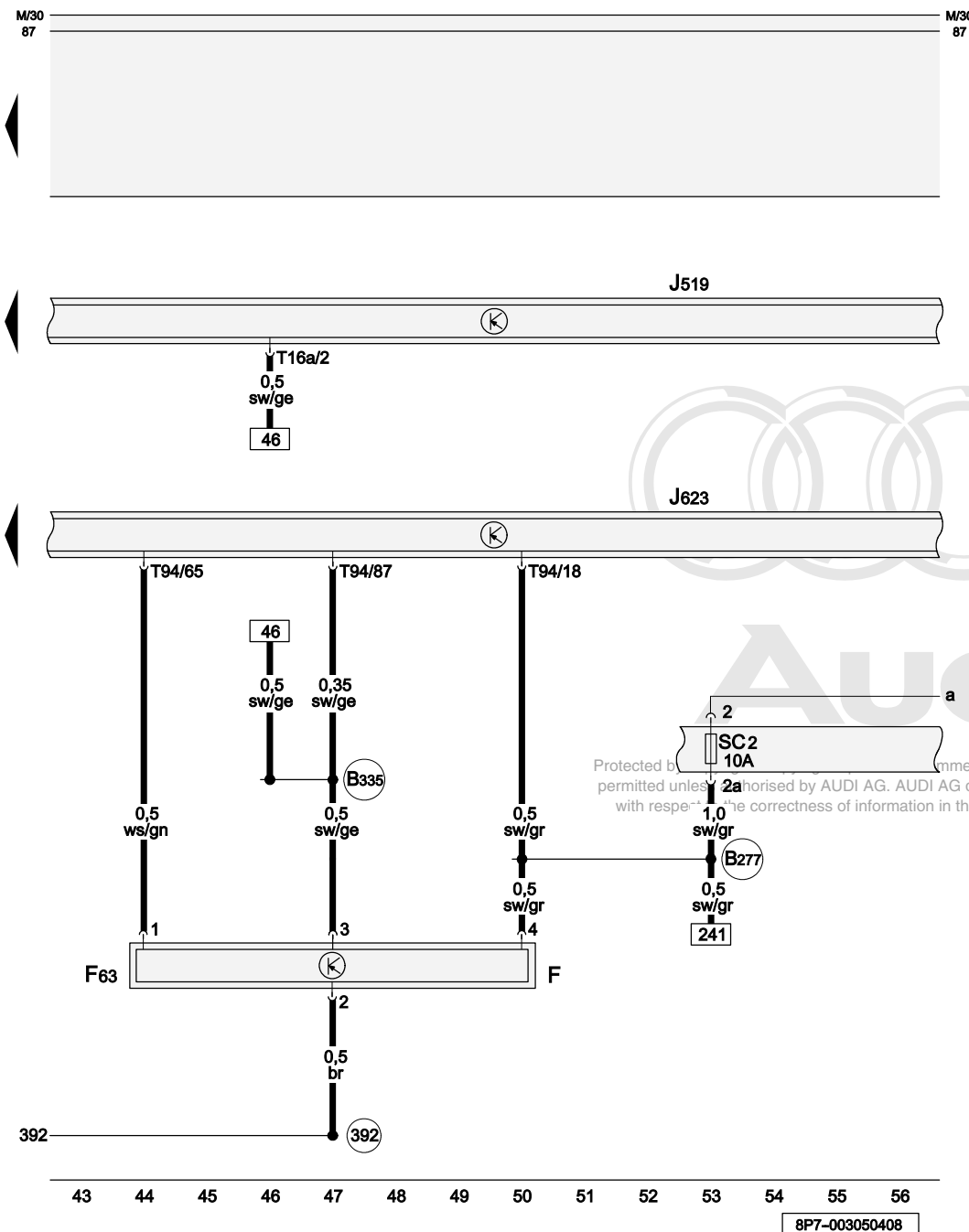


Clutch position sender

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)

392 Earth connection 27, in main wiring harness

- *** for models with automatic gearbox only
- **** for models with manual gearbox only

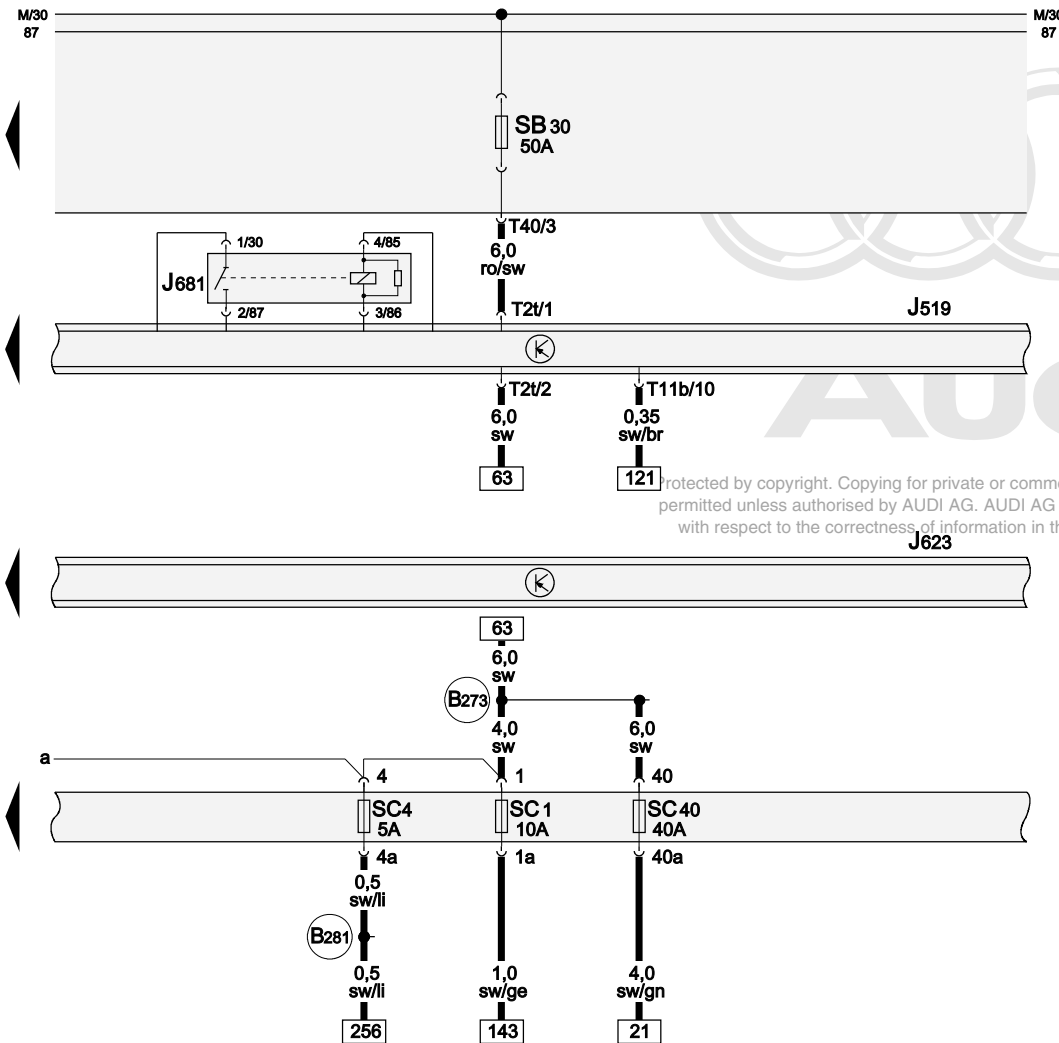


Brake light switch, brake pedal switch

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SC2 Fuse 2 on fuse holder C
- T16a 16-pin connector, black (connector E)
- T94 94-pin connector, black (connector B)

- 392 Earth connection 27, in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B335 Connection 1 (54), in main wiring harness

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Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC40 Fuse 40 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T11b 11-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

(B273) Positive connection (15), in main wiring harness

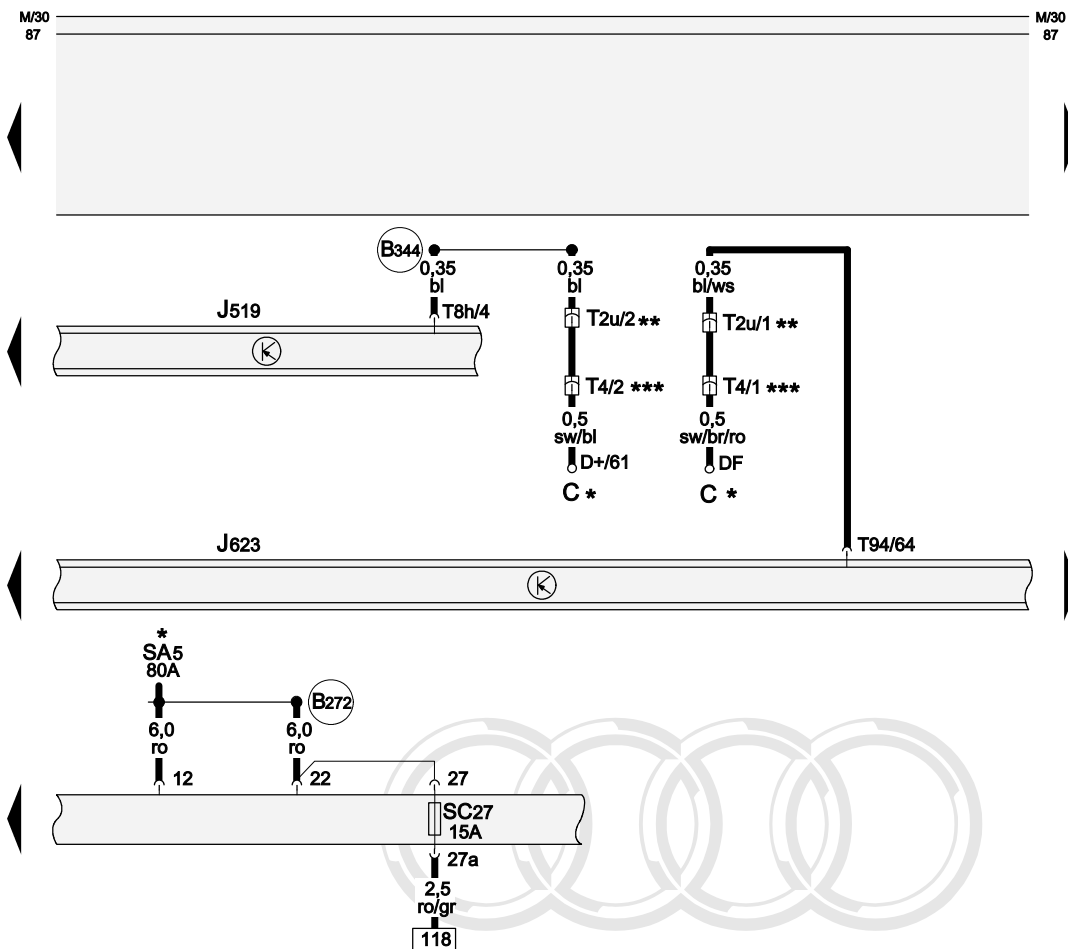
(B281) Positive connection 5 (15a), in main wiring harness

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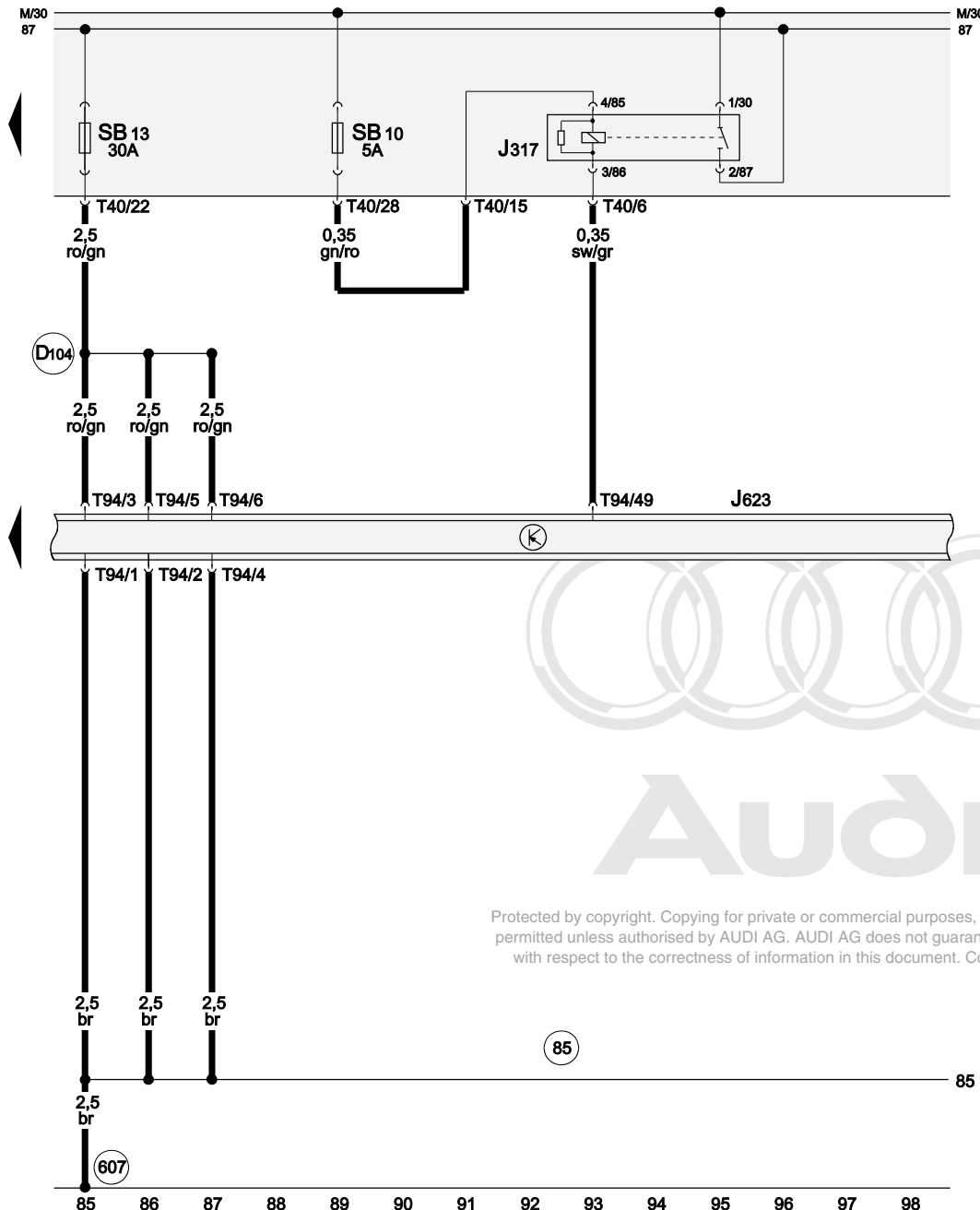


Alternator

- C Alternator
- J519 Onboard supply control unit
- J623 Engine control unit
- SA5 Fuse 5 on fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, brown, in front left engine compartment
- T4 4-pin connector, black, in front left engine compartment
- T8h 8-pin connector, black (connector F)
- T94 94-pin connector, black (connector B)
- B272 Positive connection (30), in main wiring harness
- B344 Connection 1 (61), in main wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models without air conditioning system only
- *** for models with air conditioning system only

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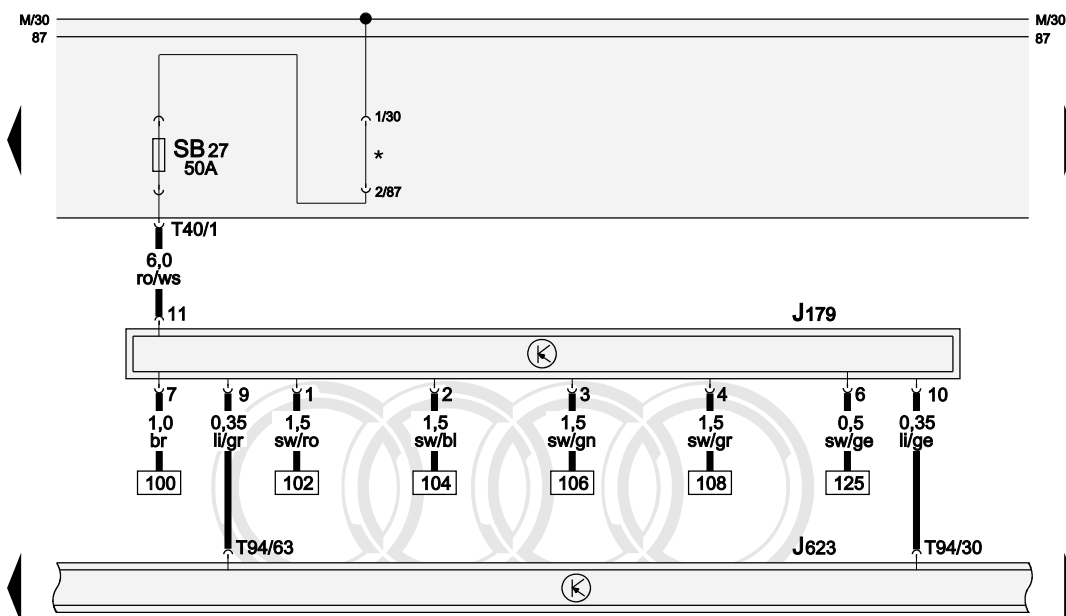
Terminal 30 voltage supply relay

- J317 Terminal 30 voltage supply relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D104 Positive connection 2 (30a), in engine compartment wiring harness

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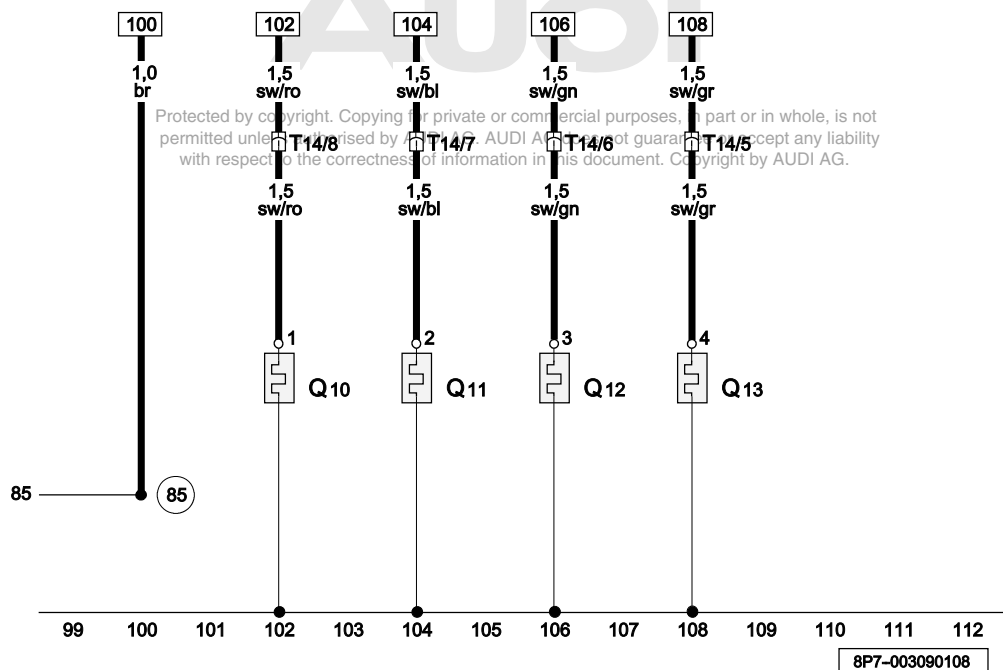
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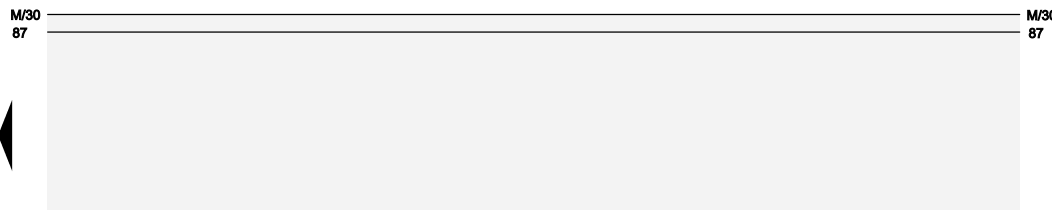
Glow plugs, automatic glow period control unit

- J179 Automatic glow period control unit
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- SB27 Fuse 27 on fuse holder B
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 85 Earth connection 1, in engine compartment wiring harness
- * electronics box, relay location 2 - bridge



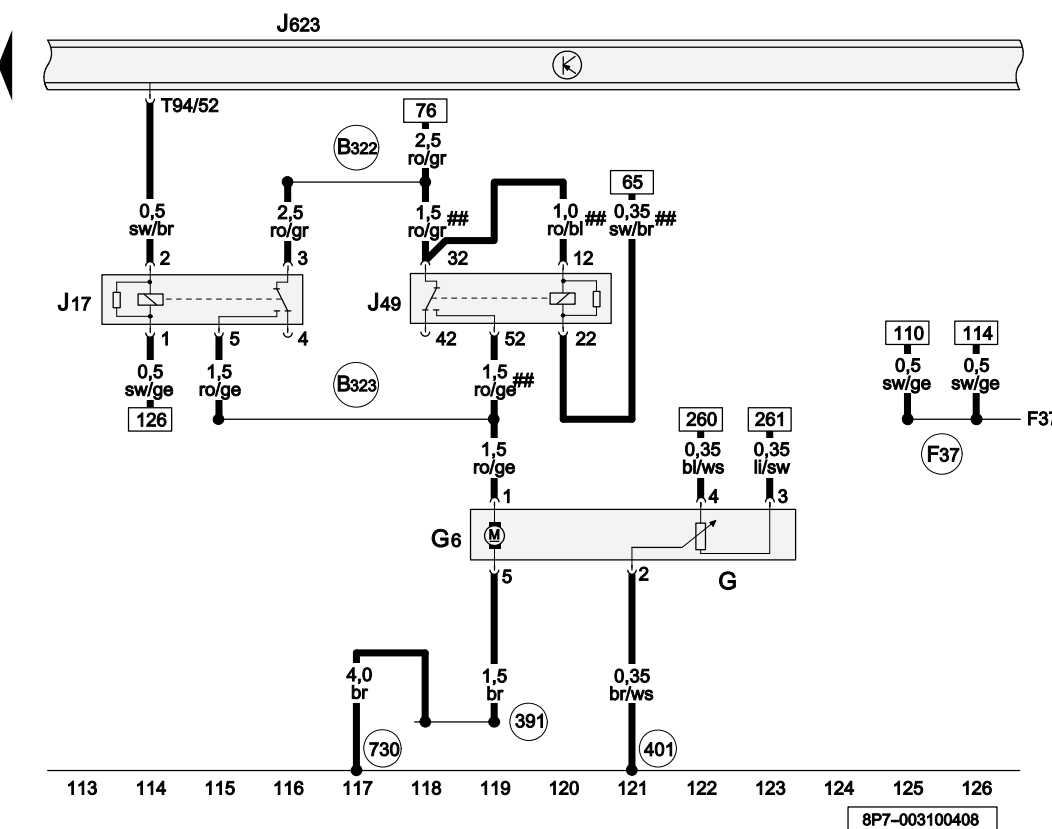
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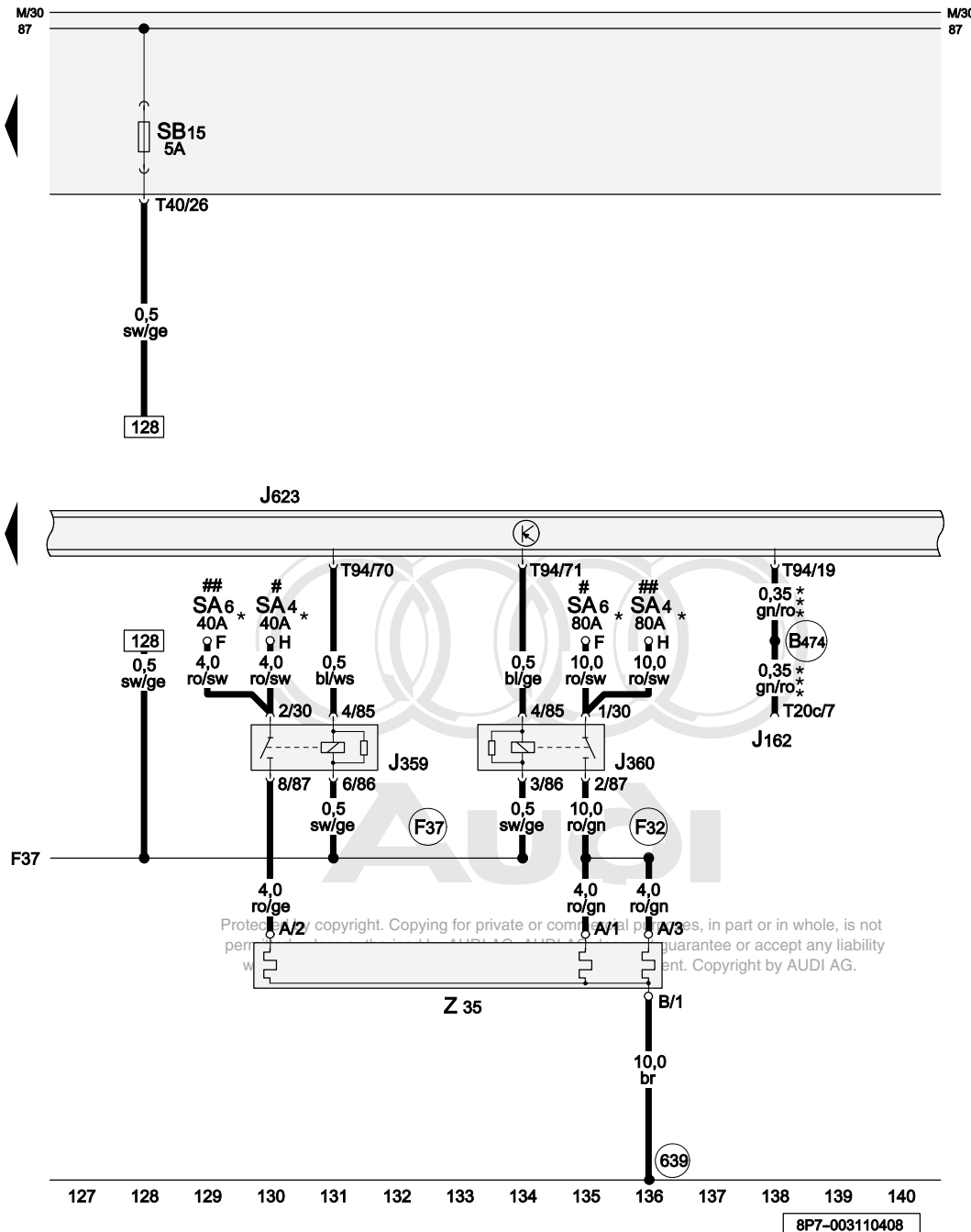
Fuel pump, fuel gauge sender

- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- J623 Engine control unit
- T94 94-pin connector, black (connector B)
- 391 Earth connection 26, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 730 Earth point 1 on rear right wheel housing
- B322 Positive connection 8 (30a), in main wiring harness
- B323 Positive connection 9 (30a), in main wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- ## for models with auxiliary heating only



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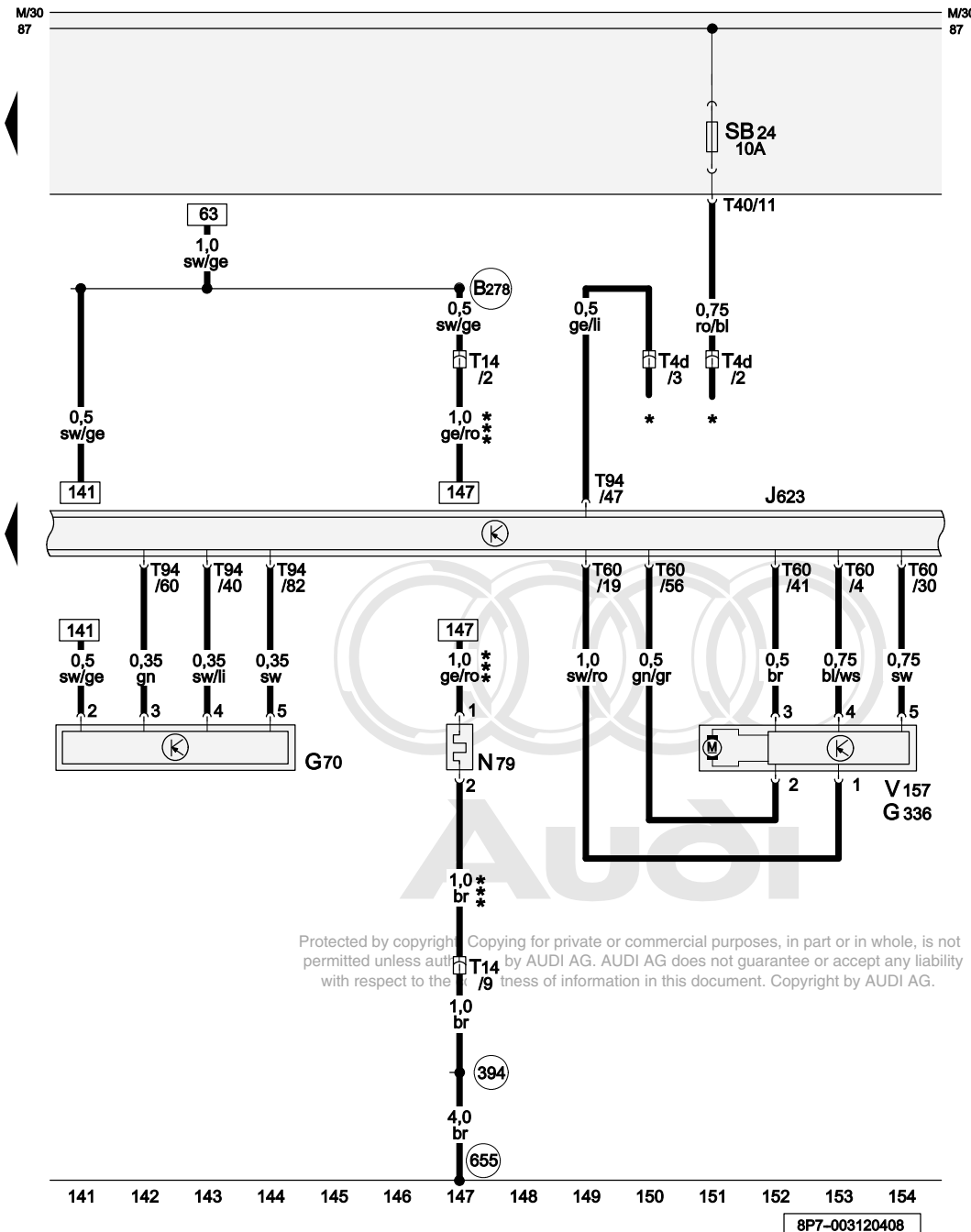


Auxiliary air heater

- J162 Heater control unit
- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z35 Auxiliary heater element

- 639 Earth point, left A-pillar
- B474 Connection 10 in main wiring harness
- F32 Connection (glow plugs, coolant) in diesel direct injection system wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- *** is dropped from November 2008
- # is dropped from November 2008
- ## applicable from November 2008

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Heater element for crankcase breather, air mass meter, intake manifold flap motor

- G70 Air mass meter
- G336 Intake manifold flap potentiometer
- J623 Engine control unit
- N79 Heater element for crankcase breather
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V157 Intake manifold flap motor

394 Earth connection 29, in main wiring harness

655 Earth point, on left headlight

B278 Positive connection 2 (15a), in main wiring harness

* ⇒ applicable Current Flow Diagram: radiator fan control
 *** for models with heater element only

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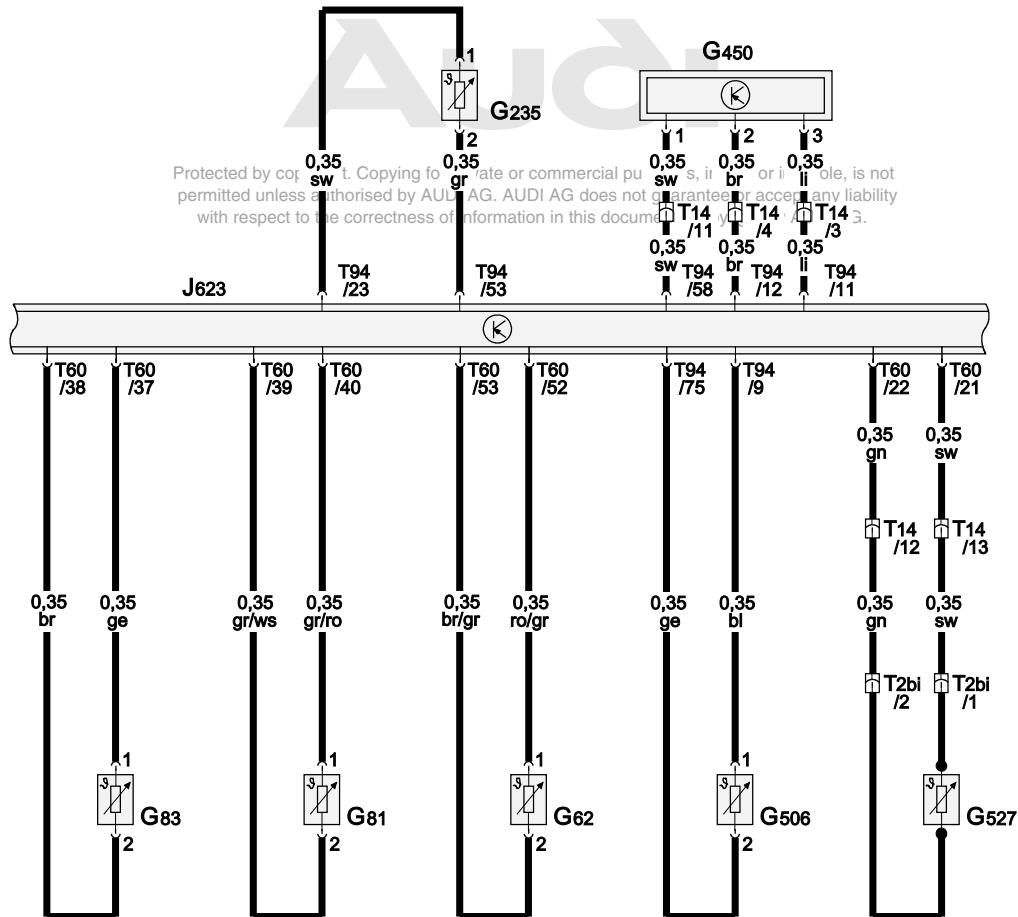
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M/30
87M/30
87

Exhaust gas pressure sensor 1, temperature sensor

- G62 Coolant temperature sender
- G81 Fuel temperature sender
- G83 Radiator outlet coolant temperature sender
- G235 Exhaust gas temperature sender 1
- G450 Exhaust gas pressure sensor 1
- G506 Temperature sender before particulate filter
- G527 Temperature sender after particulate filter
- J623 Engine control unit
- T2bi 2-pin connector, orange
- T14 14-pin connector, black, near longitudinal member, front left
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

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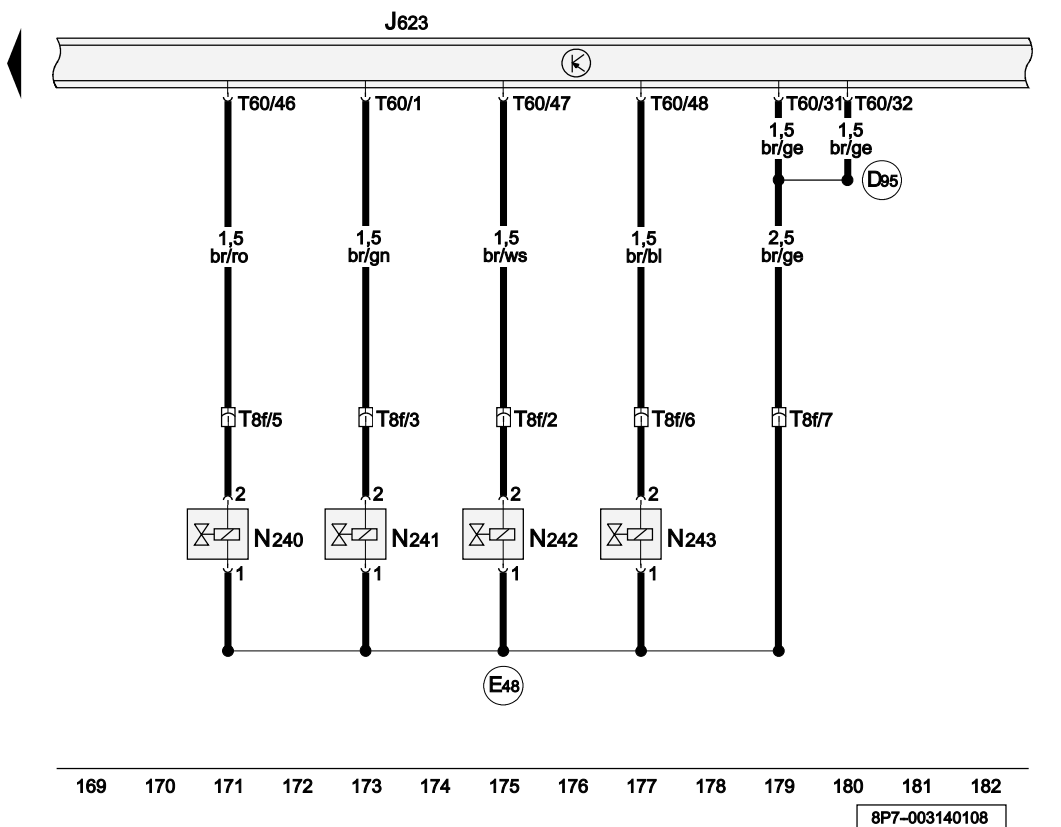
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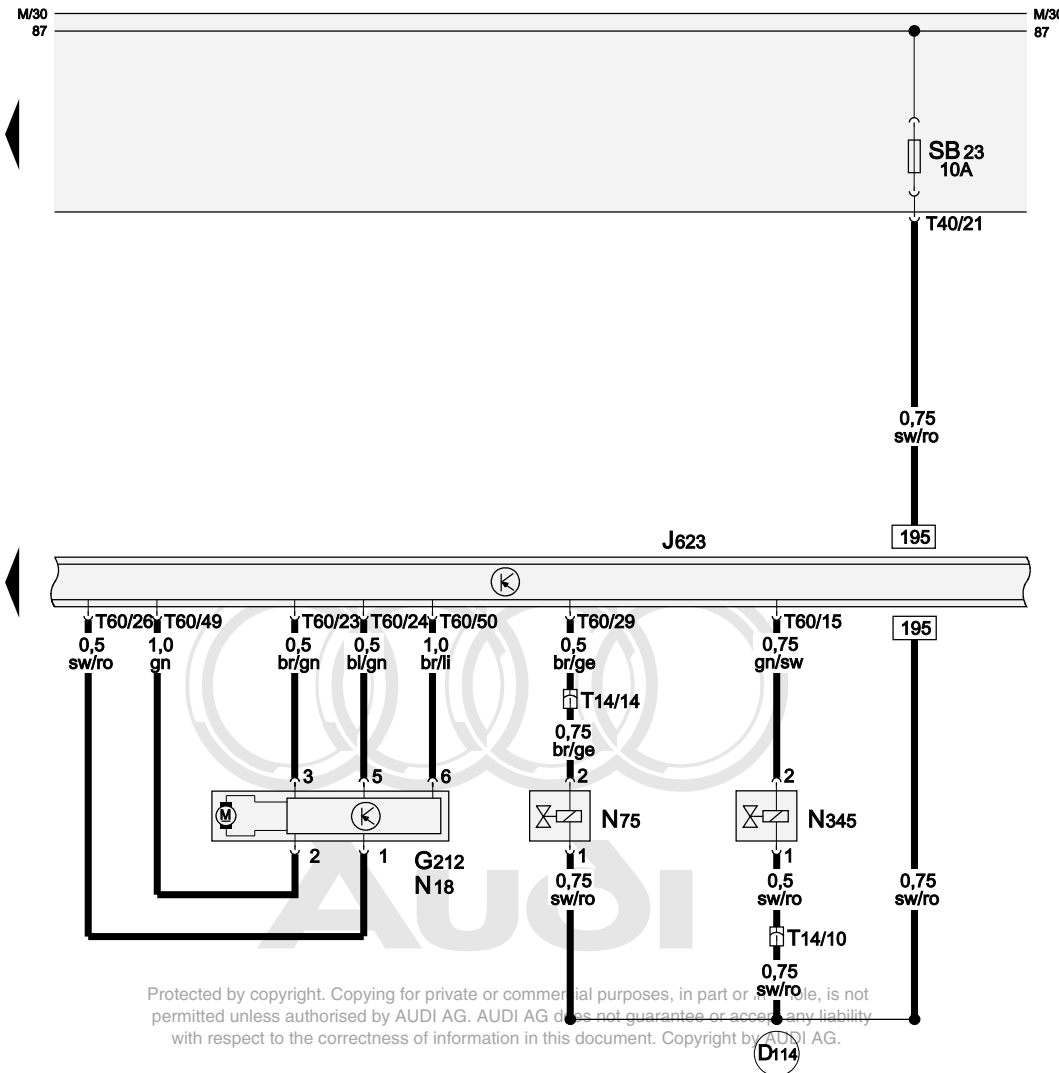


Unit injector valves

- J623 Engine control unit
- N240 Unit injector valve, No. 1 cyl.
- N241 Unit injector valve, No. 2 cyl.
- N242 Unit injector valve, No. 3 cyl.
- N243 Unit injector valve, No. 4 cyl.
- T8f 8-pin connector, black, in engine compartment
- T60 60-pin connector, black (connector A)
- D95 Connection (injectors), in engine compartment wiring harness
- E48 Connection (injectors), in injection system wiring harness

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Solenoid valves

- G212 Exhaust gas recirculation potentiometer
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- N75 Charge pressure control solenoid valve
- N345 Exhaust gas recirculation cooler change-over valve
- SB23 Fuse 23 on fuse holder B
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- D114 Connection 12, in engine compartment wiring harness

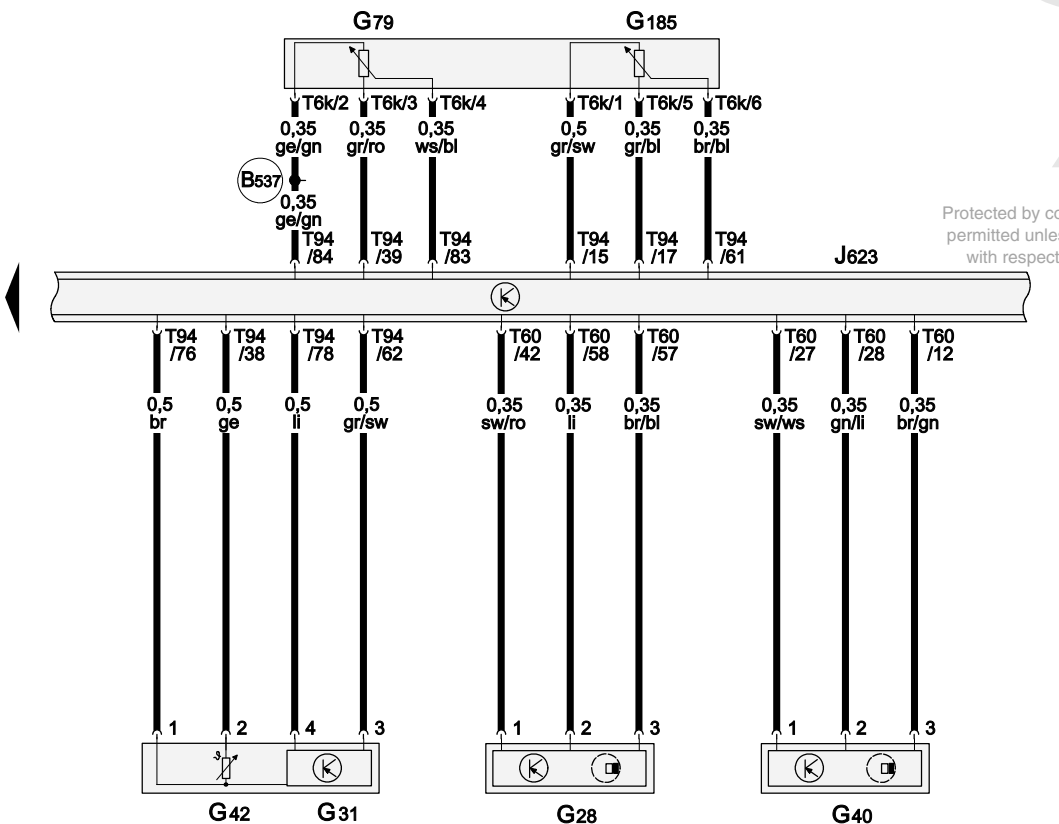


Engine speed sender, charge air pressure sender, hall sender

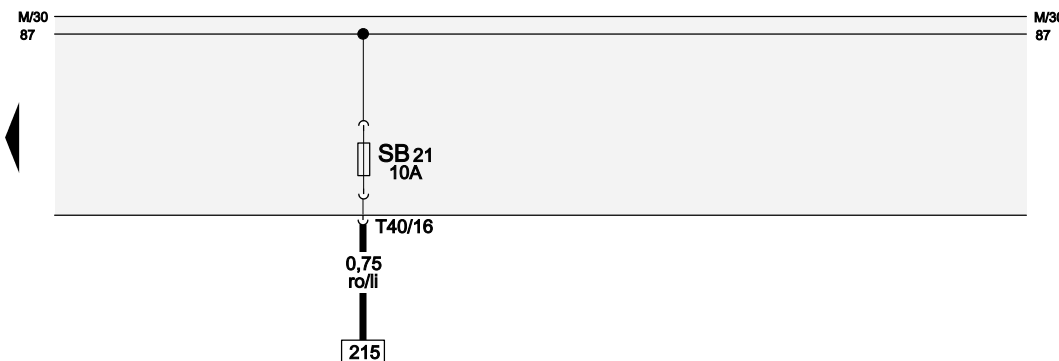
- G28 Engine speed sender
- G31 Charge air pressure sender
- G40 Hall sender
- G42 Intake air temperature sender
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- J623 Engine control unit
- T6k 6-pin connector, black, near accelerator position sender
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

B537 Connection 28 in main wiring harness

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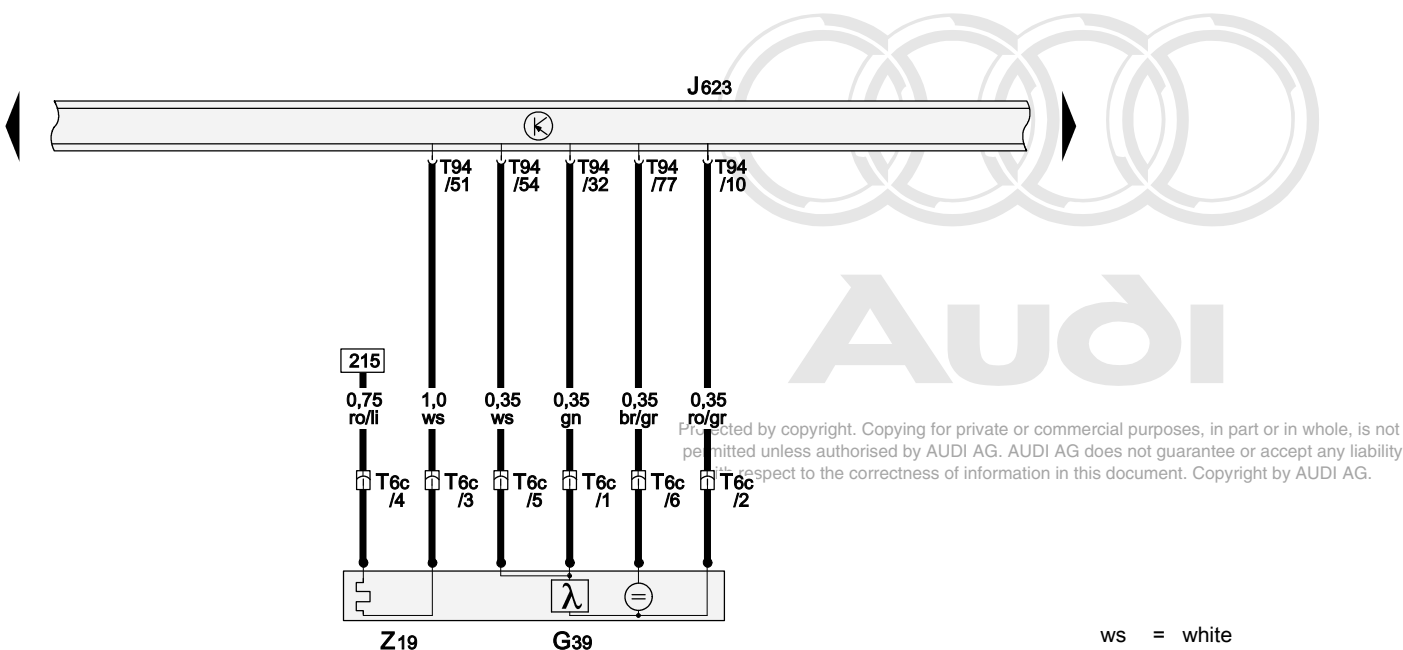


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Lambda probe

- G39 Lambda probe
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T6c 6-pin connector, black, on Lambda probe upstream of catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z19 Lambda probe heater



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Drive train CAN bus, diagnosis

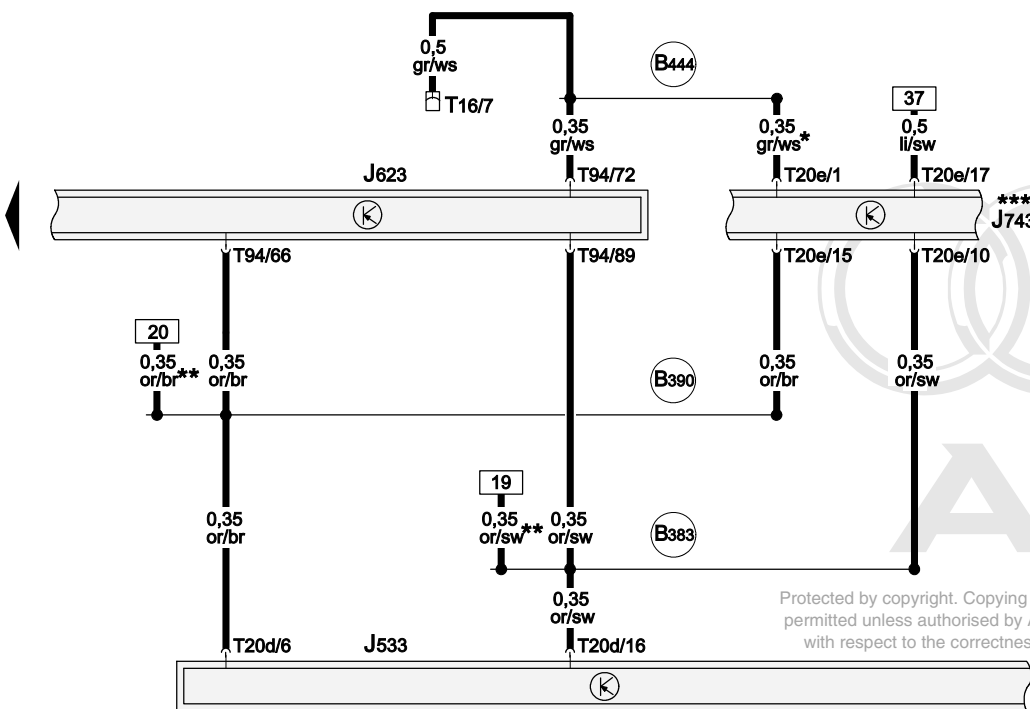
- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for direct shift gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

B383 Connection 1 (drive train CAN bus, high), in main wiring harness

B390 Connection 1 (drive train CAN bus, low), in main wiring harness

B444 Connection 1 (diagnosis), in main wiring harness

- * for models with diagnosis connection only
- ** for models with CAN bus drive train only
- *** for models with automatic gearbox only

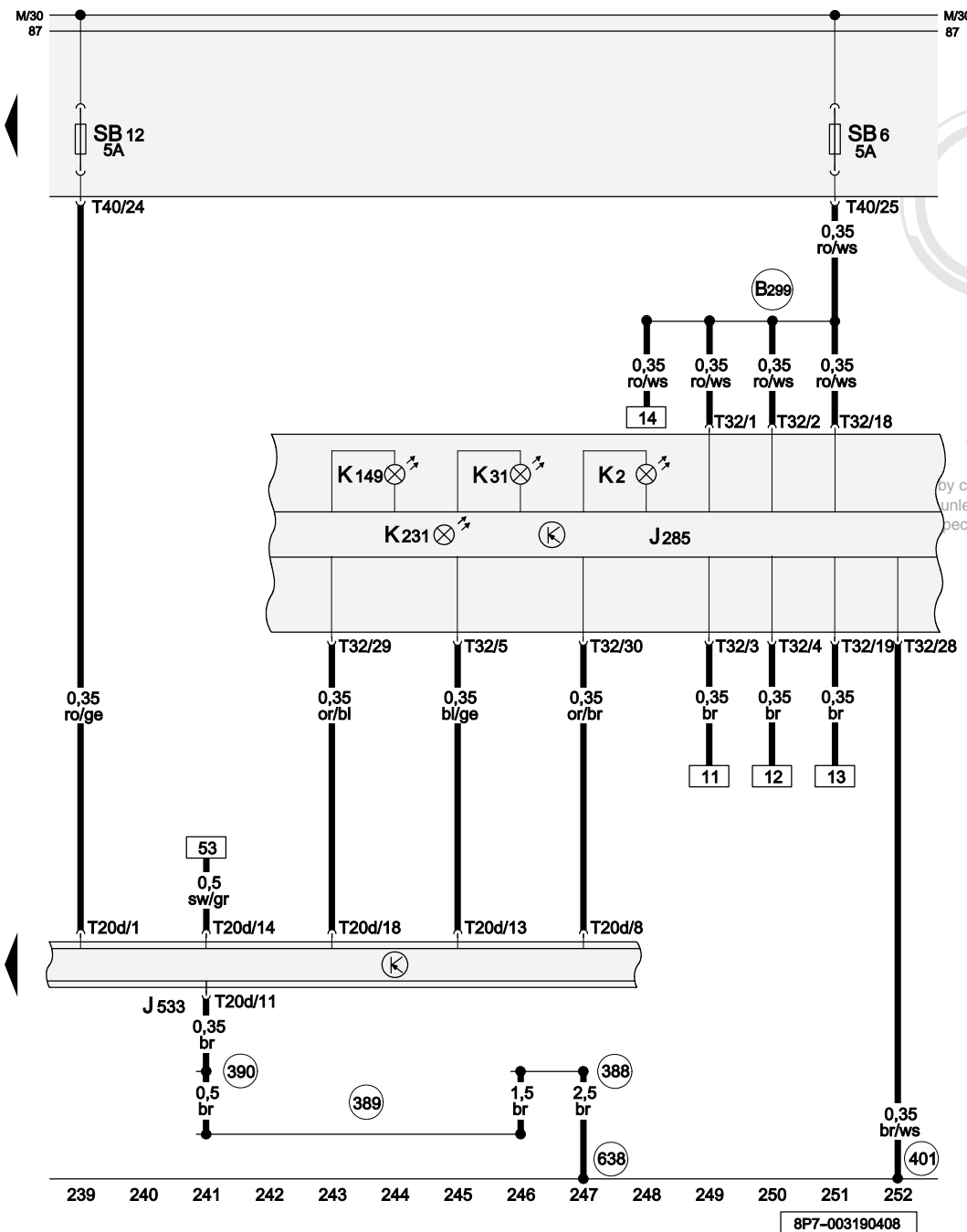


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Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- K231 Diesel particulate filter warning lamp
- SB6 Fuse 6 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 638 Earth point, right A-pillar
- B299 Positive connection 3 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, black, near longitudinal member, front left
- T14 14-pin connector, black, near longitudinal member, front left
- T32 32-pin connector, blue (connector A)

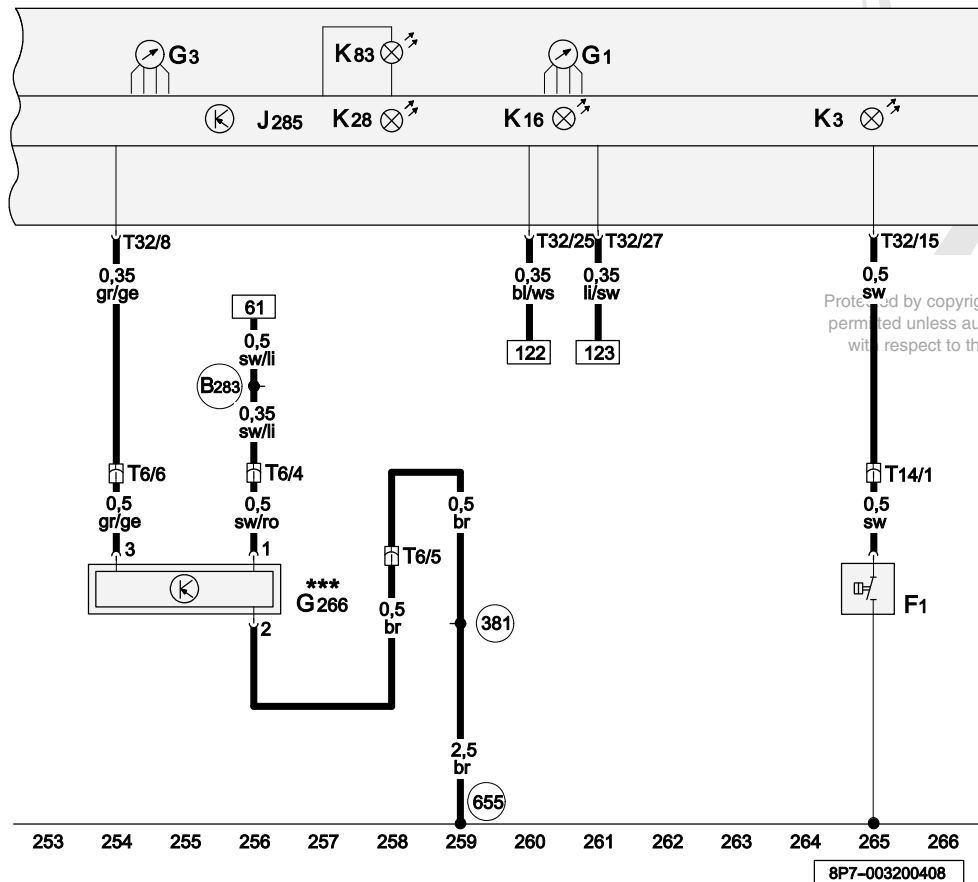
381 Earth connection 16, in main wiring harness

655 Earth point, on left headlight

B283 Positive connection 7 (15a), in main wiring harness

*** for models with extended servicing intervals (ESI) only

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2.0 I - Diesel engine (100 kW - Common Rail - 4 cylinder), engine code CBAA

from March 2008

2.0 I - Diesel engine (103 kW - Common Rail - 4 cylinder), engine code CBAB

from March 2008

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



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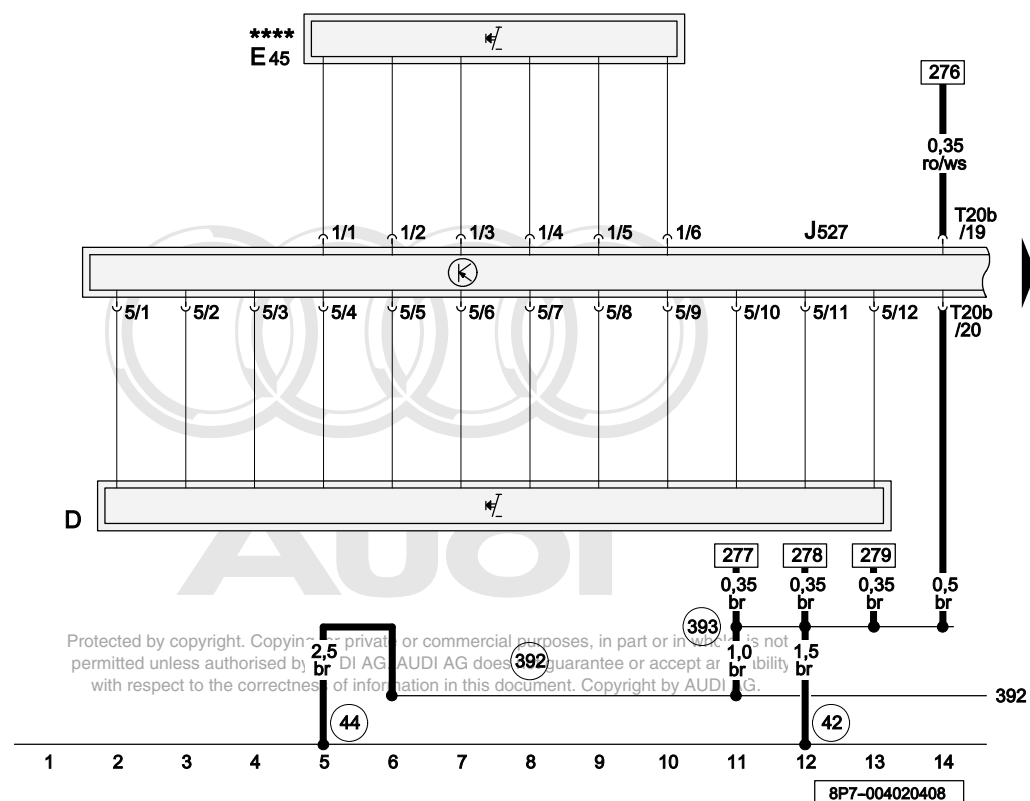
M/30

M/30

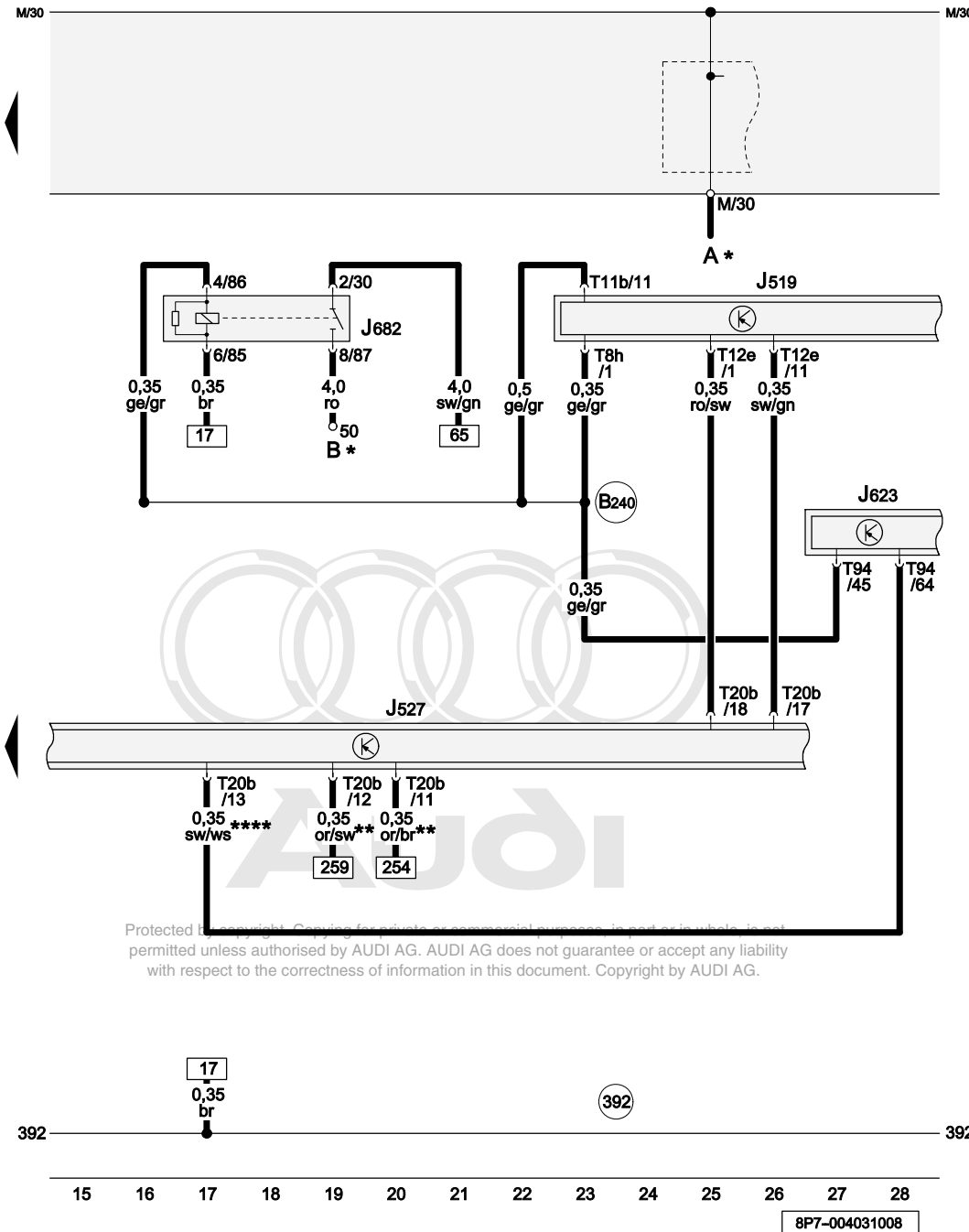
Cruise control system switch, ignition/starter switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- T20b 20-pin connector, black (connector A)

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- **** for models with cruise control system only



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Electronics box supply, terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T8h 8-pin connector, black (connector F)
- T11b 11-pin connector, black (connector A)
- T12e 12-pin connector, black (connector G)
- T20b 20-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

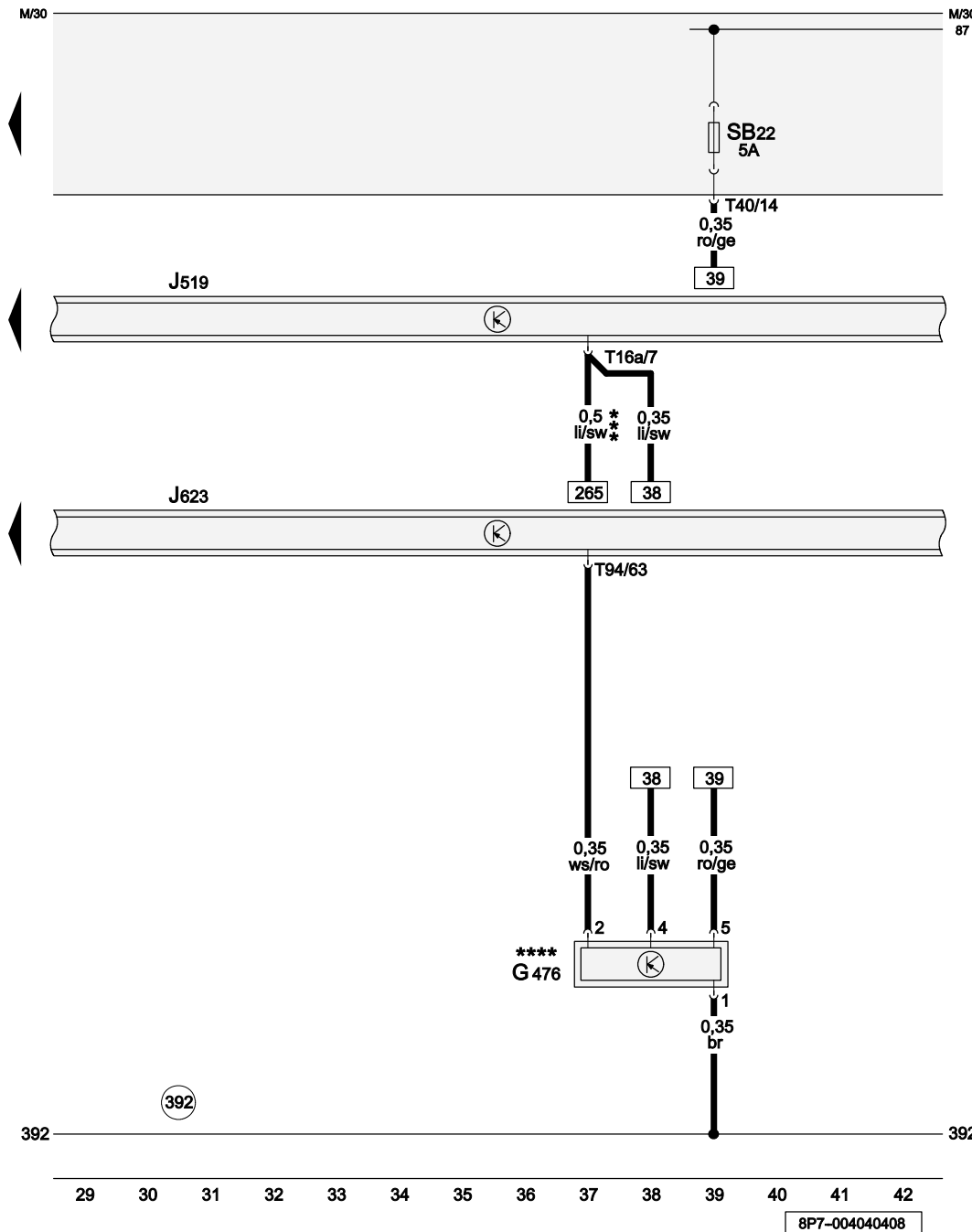
392 Earth connection 27, in main wiring harness

B240 Positive connection 2 (50), in interior wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

** for models with CAN bus drive train only

**** for models with cruise control system only



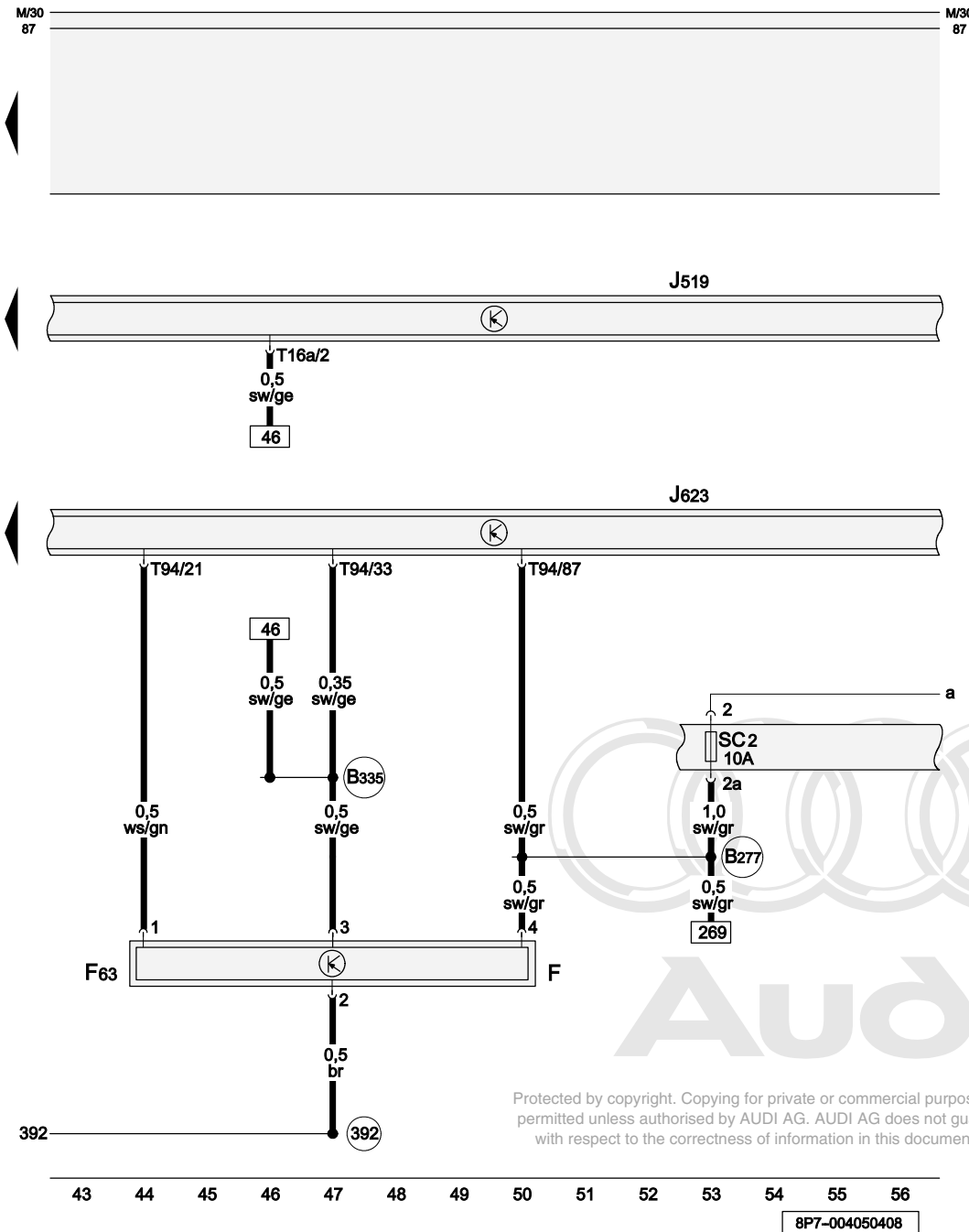
Clutch position sender

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 392 Earth connection 27, in main wiring harness
- *** for models with automatic gearbox only
- **** for models with manual gearbox only



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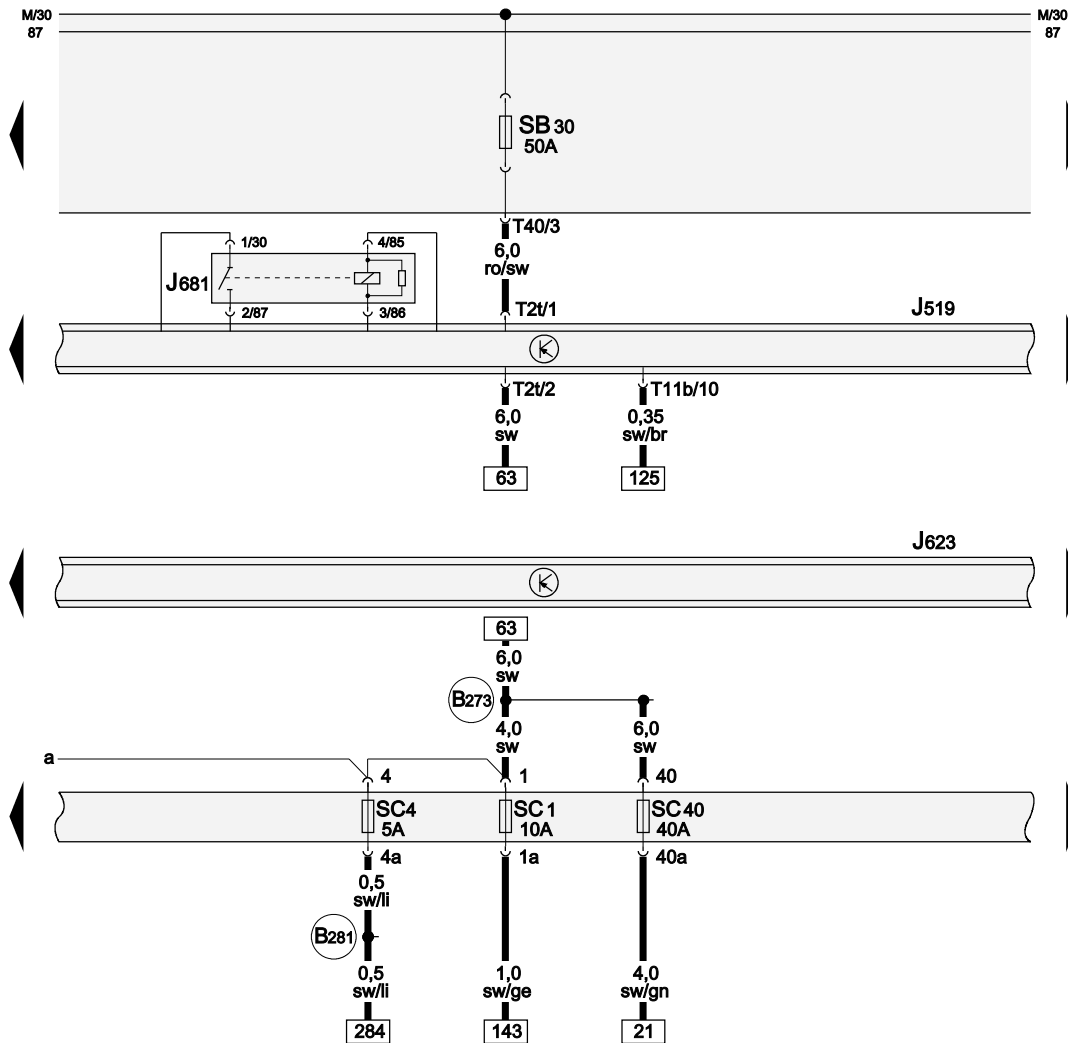


Brake light switch, brake pedal switch

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SC2 Fuse 2 on fuse holder C
- T16a 16-pin connector, black (connector E)
- T94 94-pin connector, black (connector B)
- 392 Earth connection 27, in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B335 Connection 1 (54), in main wiring harness

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8P7-004050408



Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC40 Fuse 40 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T11b 11-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

(B273) Positive connection (15), in main wiring harness

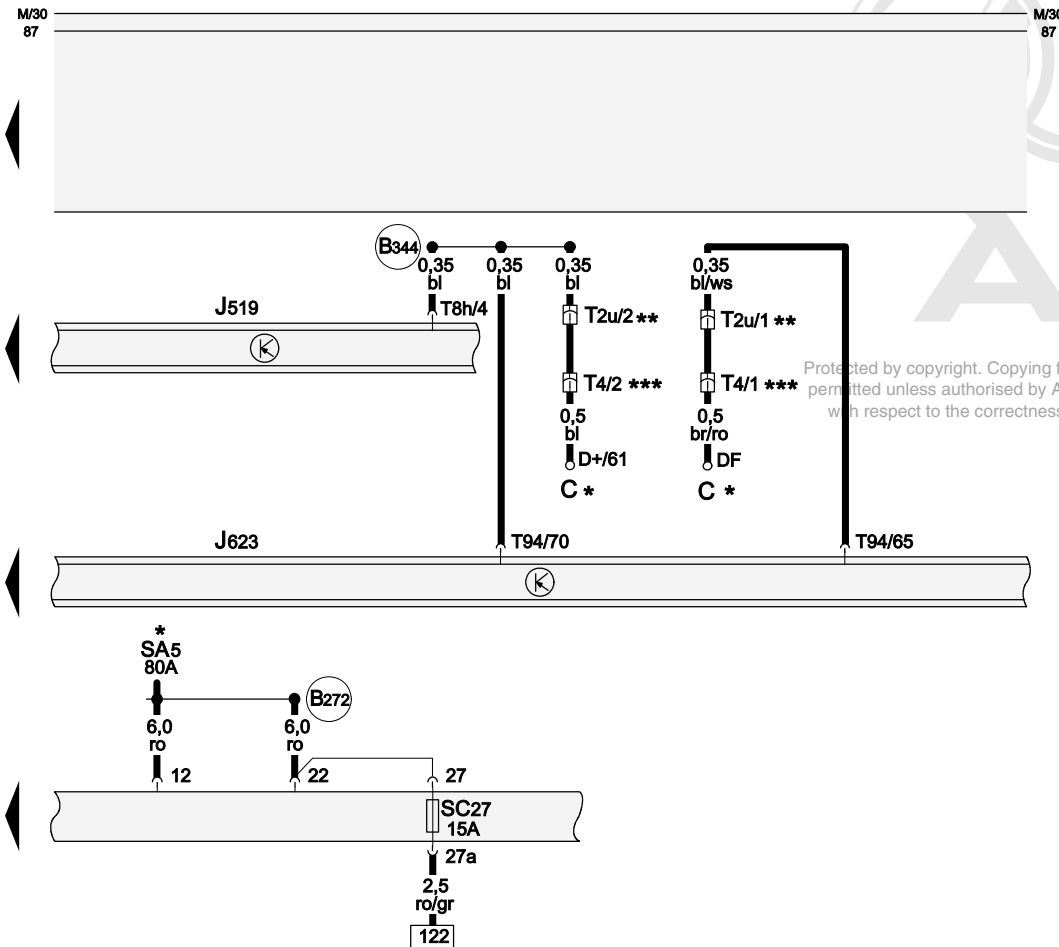
(B281) Positive connection 5 (15a), in main wiring harness

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

8P7-004060108



Alternator

- C Alternator
- J519 Onboard supply control unit
- J623 Engine control unit
- SA5 Fuse 5 on fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, brown, in front left engine compartment
- T4 4-pin connector, black, in front left engine compartment
- T8h 8-pin connector, black (connector F)
- T94 94-pin connector, black (connector B)

B272 Positive connection (30), in main wiring harness

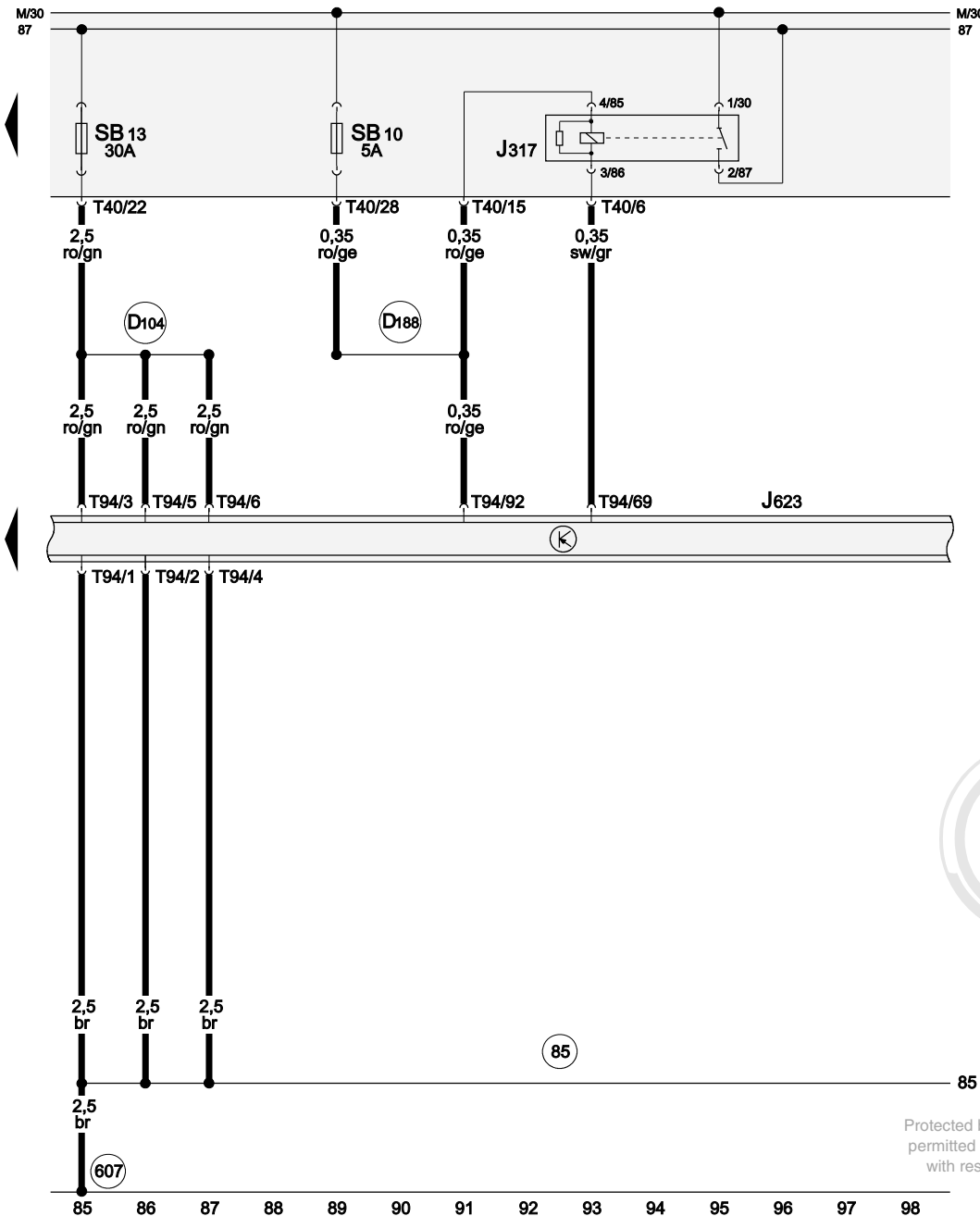
B344 Connection 1 (61), in main wiring harness

- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models without air conditioning system only
- *** for models with air conditioning system only

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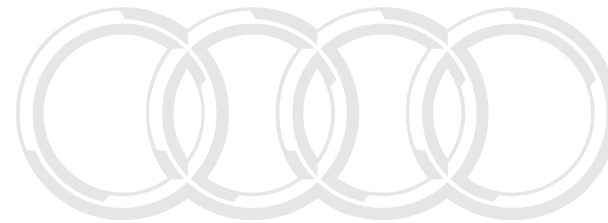
71 72 73 74 75 76 77 78 79 80 81 82 83 84

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Terminal 30 voltage supply relay

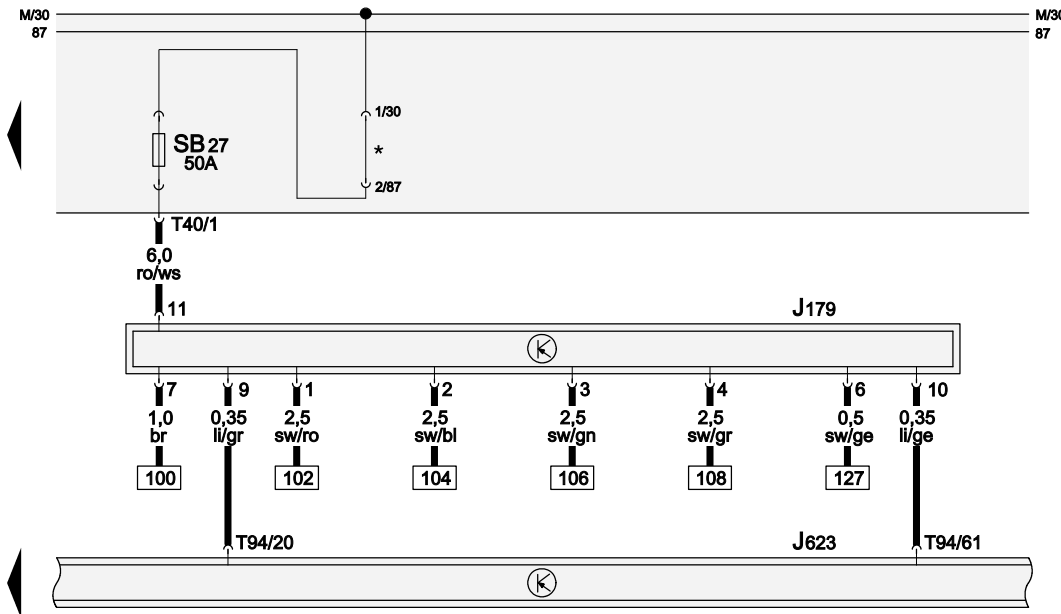
- J317 Terminal 30 voltage supply relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D104 Positive connection 2 (30a), in engine compartment wiring harness
- D188 Positive connection 3 (30a), in engine compartment wiring harness



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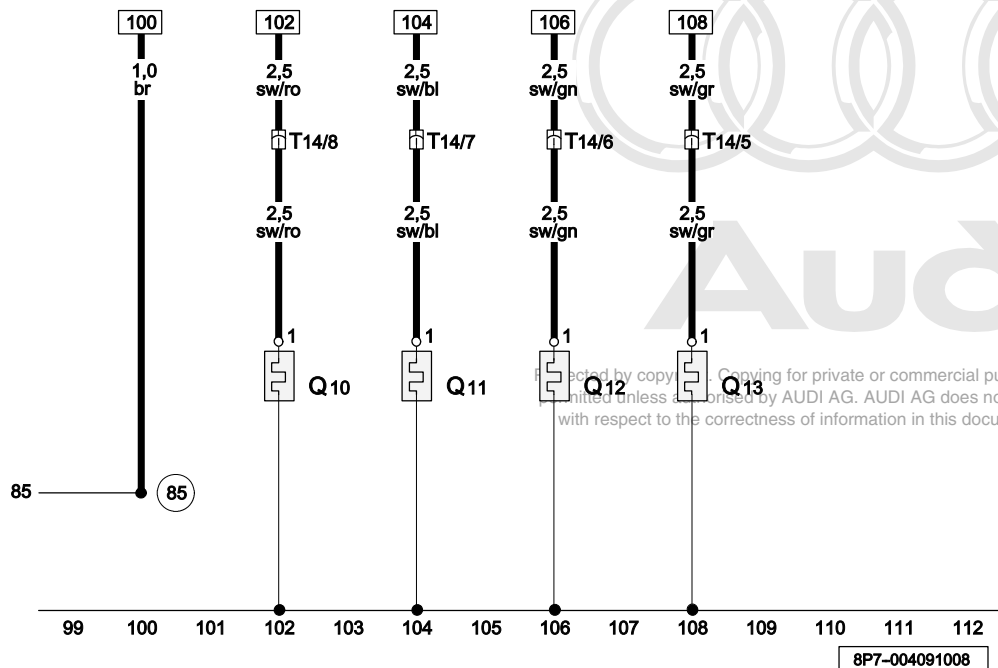
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8P7-004080108



Glow plugs, automatic glow period control unit

- J179 Automatic glow period control unit
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- SB27 Fuse 27 on fuse holder B
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 85 Earth connection 1, in engine compartment wiring harness
- * electronics box, relay location 2 - bridge



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8P7-004091008



Fuel pump, fuel gauge sender

- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- J832 Relay for supplementary fuel pump
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V393 Supplementary fuel pump

388 Earth connection 23, in main wiring harness

391 Earth connection 26, in main wiring harness

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401 Earth connection (sender earth), in interior wiring harness

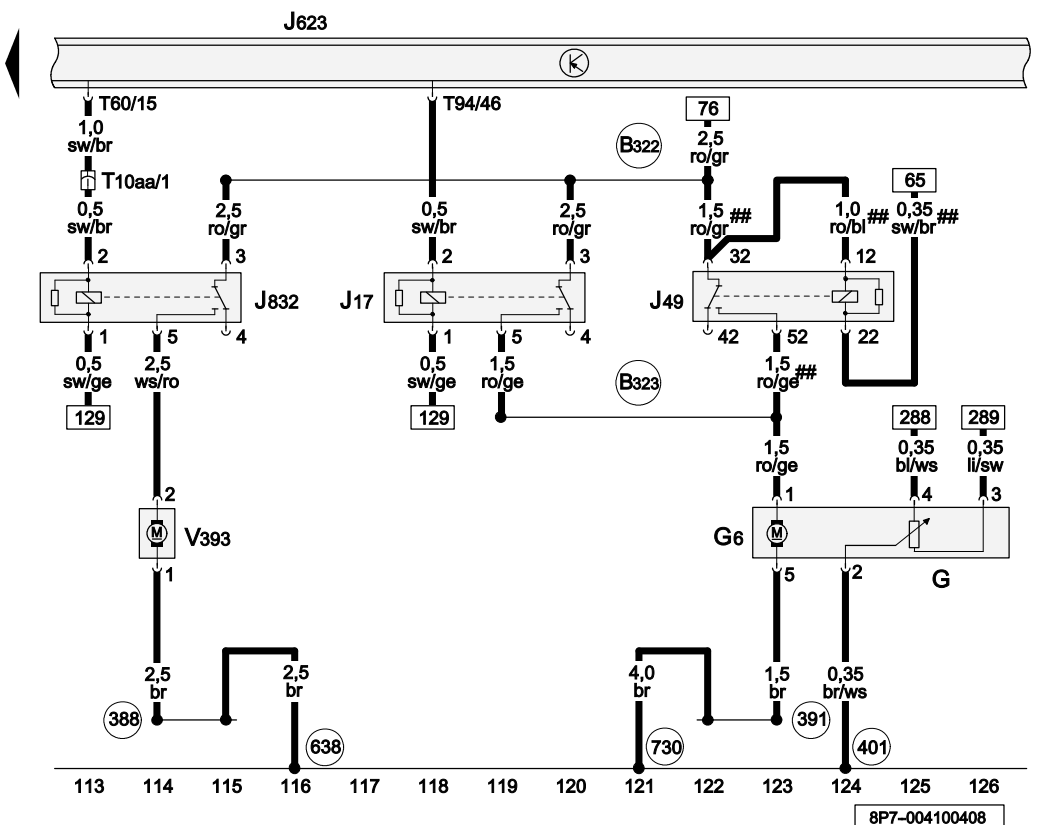
638 Earth point, right A-pillar

730 Earth point 1 on rear right wheel housing

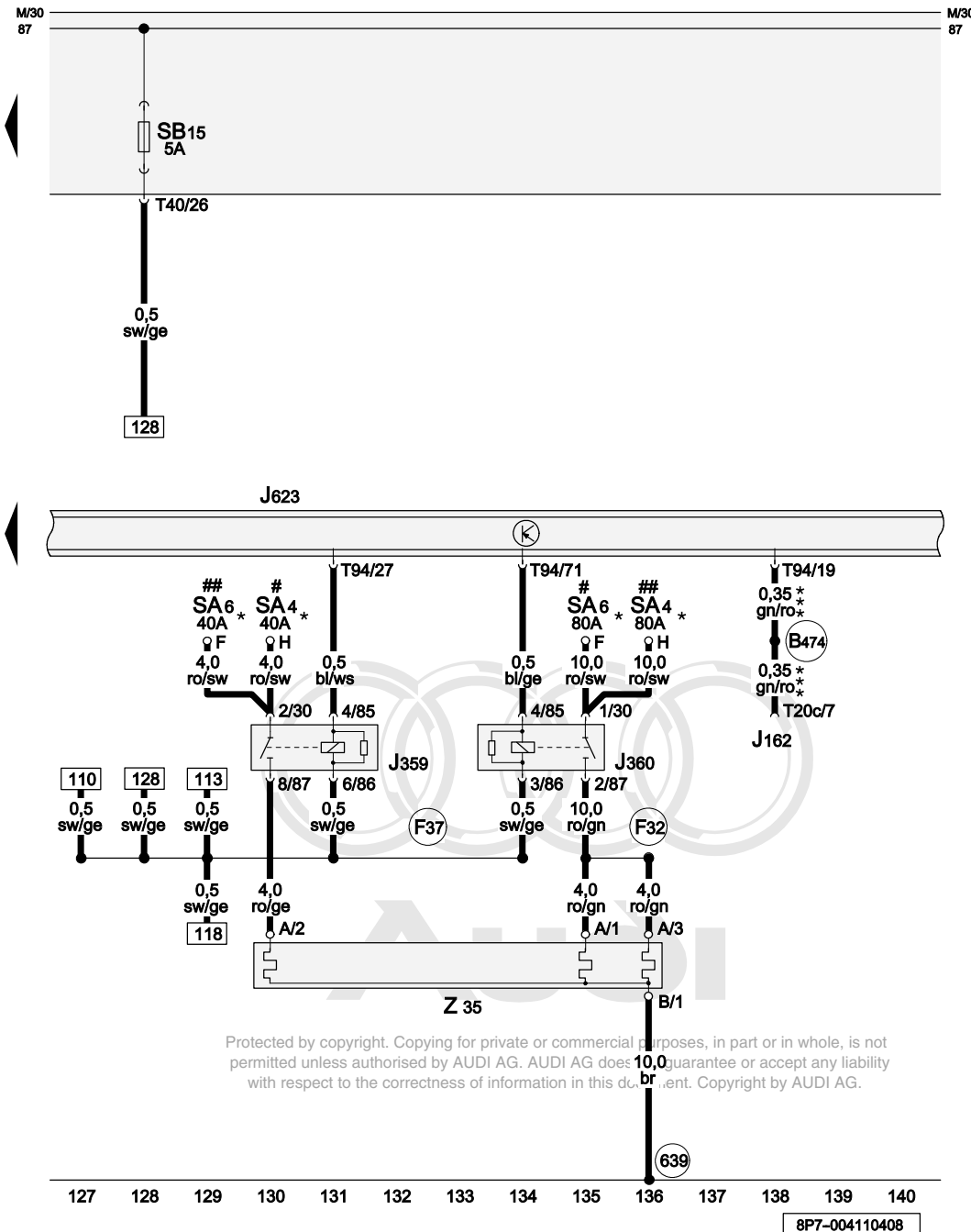
B322 Positive connection 8 (30a), in main wiring harness

B323 Positive connection 9 (30a), in main wiring harness

for models with auxiliary heating only



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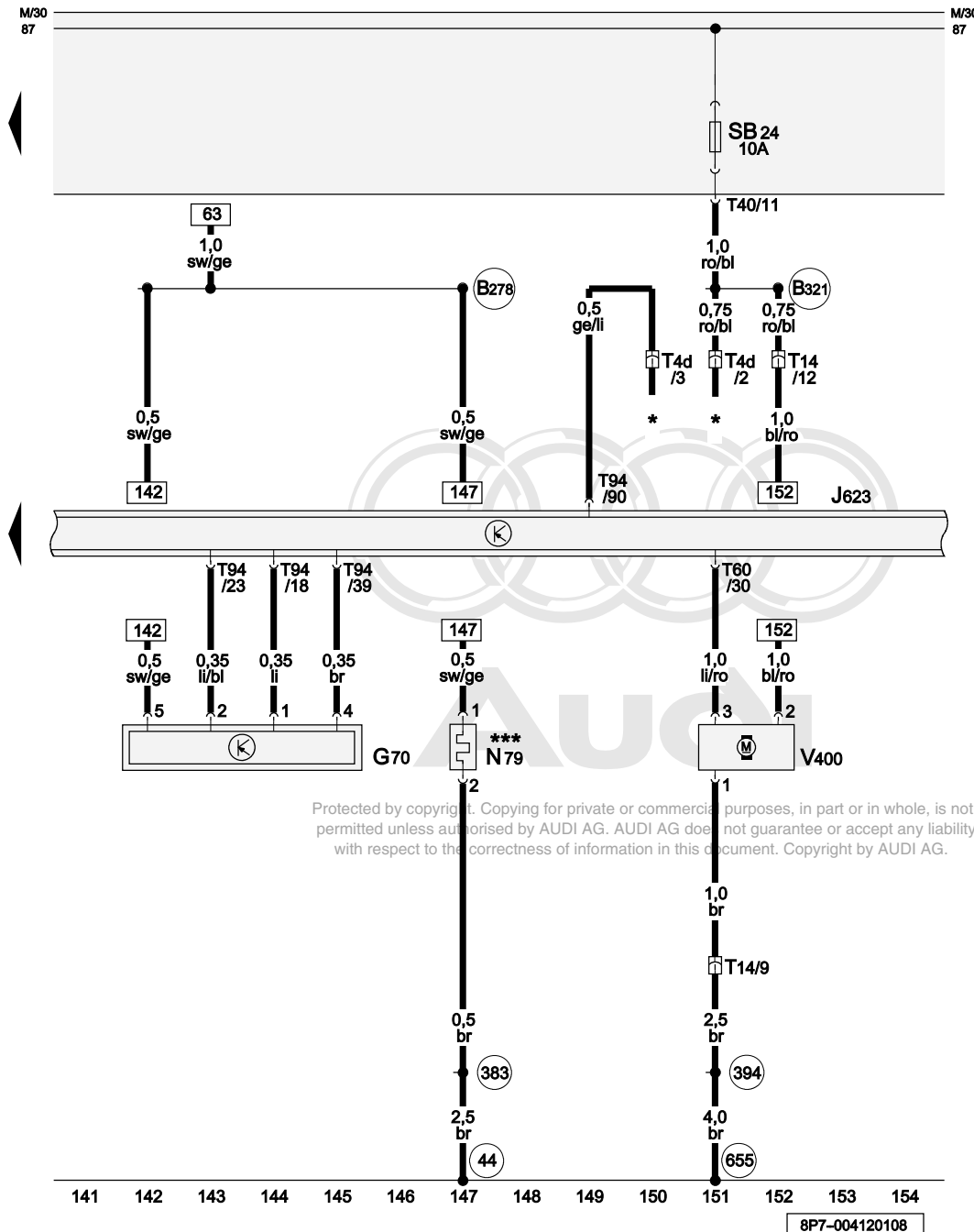


Auxiliary air heater

- J162 Heater control unit
- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z35 Auxiliary heater element

- 639 Earth point, left A-pillar
- B474 Connection 10 in main wiring harness
- F32 Connection (glow plugs, coolant) in diesel direct injection system wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- *** models with heater
- # is dropped from November 2008
- ## applicable from November 2008

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Heater element for crankcase breather, air mass meter, coolant circulation pump

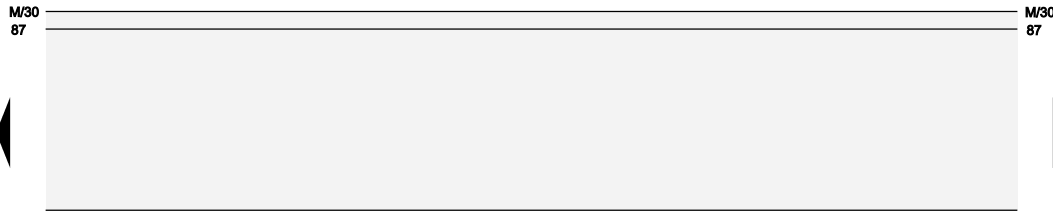
- G70 Air mass meter
- J623 Engine control unit
- N79 Heater element for crankcase breather
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V400 Pump for exhaust gas recirculation cooler

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- B278 Positive connection 2 (15a), in main wiring harness
- B321 Positive connection 7 (30a), in main wiring harness

* ⇒ applicable Current Flow Diagram: radiator fan control
 *** for models with heater element only

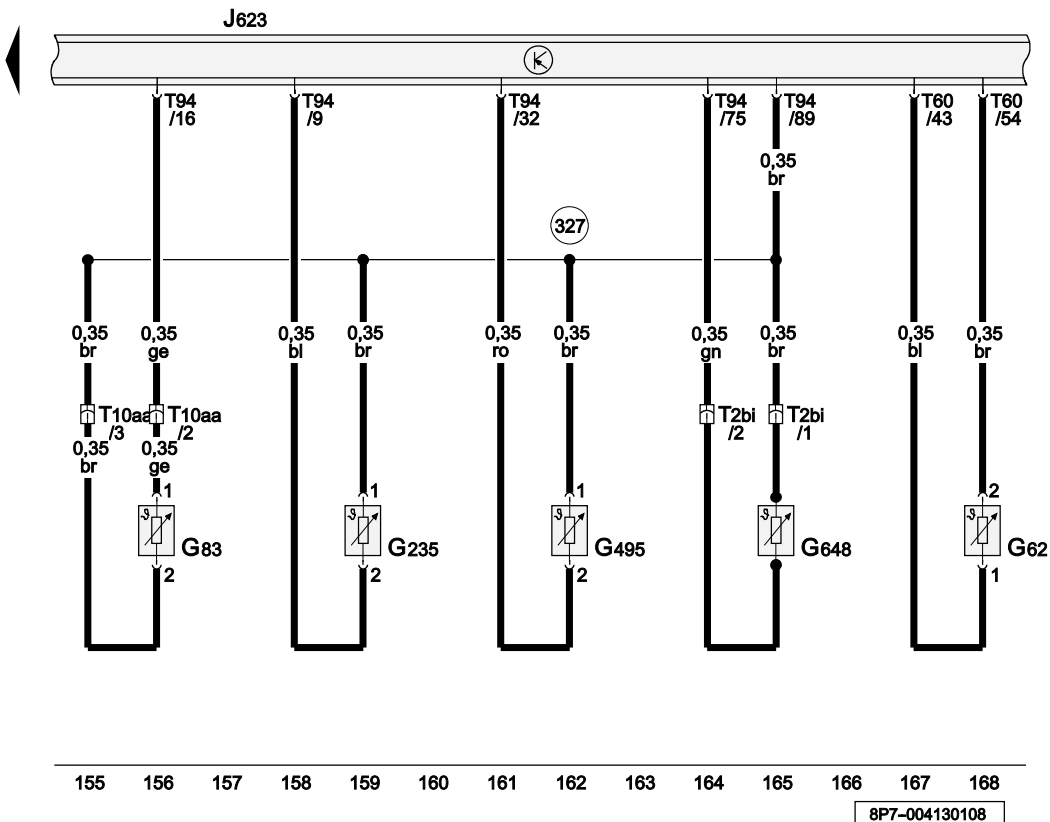
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Temperature sender

- G62 Coolant temperature sender
- G83 Radiator outlet coolant temperature sender
- G235 Exhaust gas temperature sender 1
- G495 Exhaust gas temperature sender 3
- G648 Exhaust gas temperature sender 4
- J623 Engine control unit
- T2bi 2-pin connector, orange
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- 327 Earth connection (sender earth), in engine compartment wiring harness



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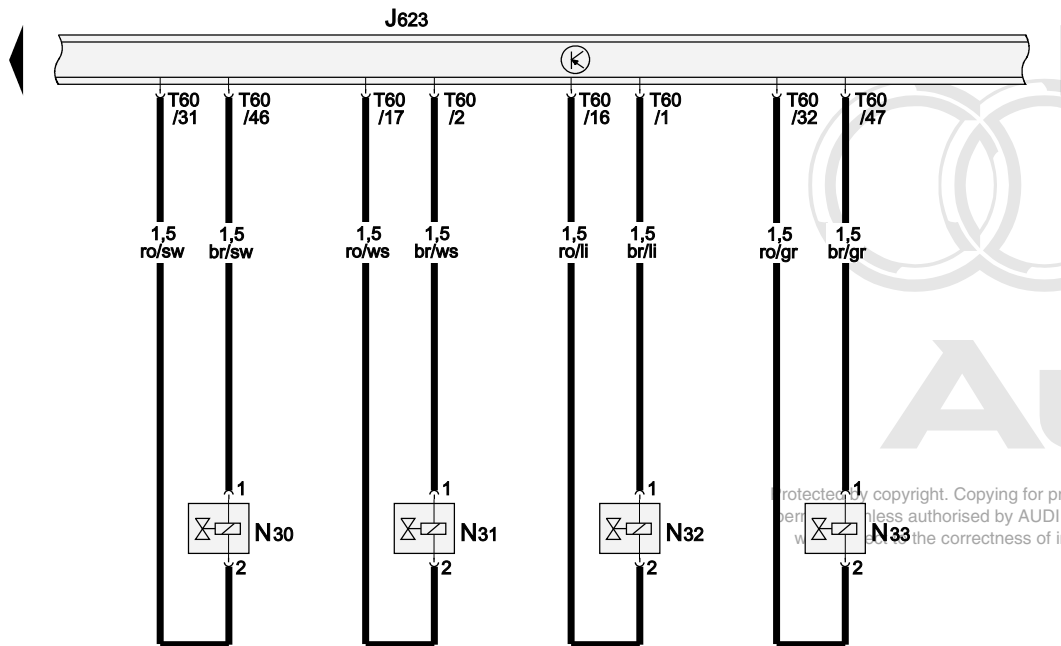
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8P7-004130108



Injectors

- J623 Engine control unit
- N30 Injector, cylinder 1
- N31 Injector, cylinder 2
- N32 Injector, cylinder 3
- N33 Injector, cylinder 4
- T60 60-pin connector, black (connector A)

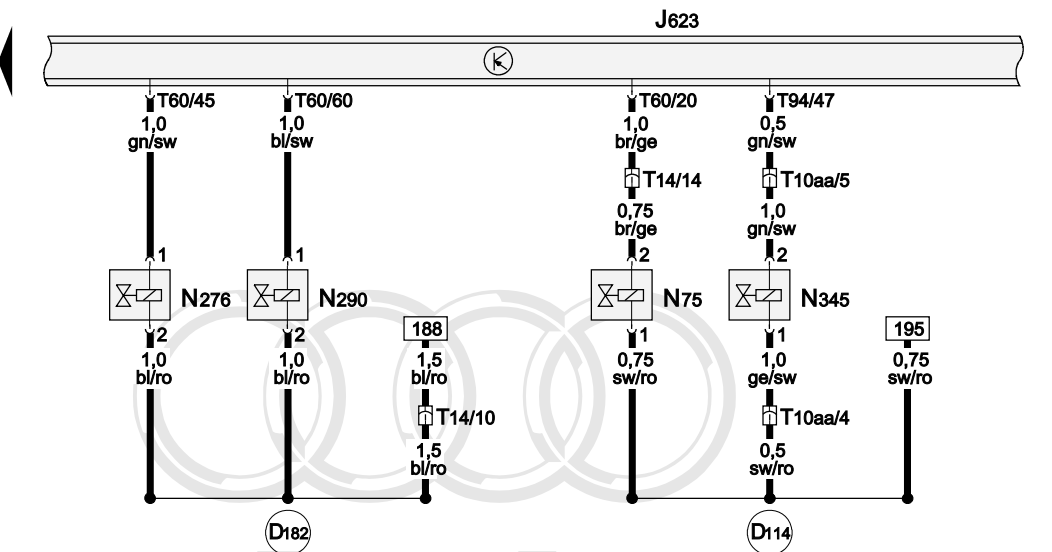
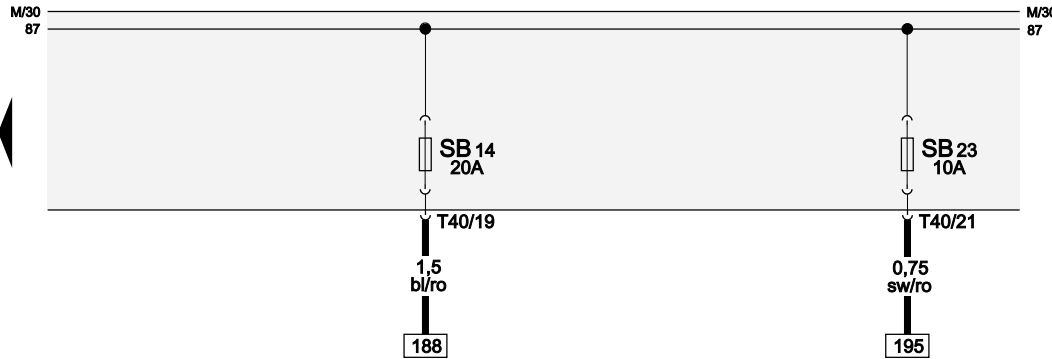


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Solenoid valves

- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N345 Exhaust gas recirculation cooler change-over valve
- N276 Fuel pressure regulating valve
- N290 Fuel metering valve
- SB14 Fuse 14 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- D114 Connection 12, in engine compartment wiring harness
- D182 Connection 3 (87a), in engine compartment wiring harness

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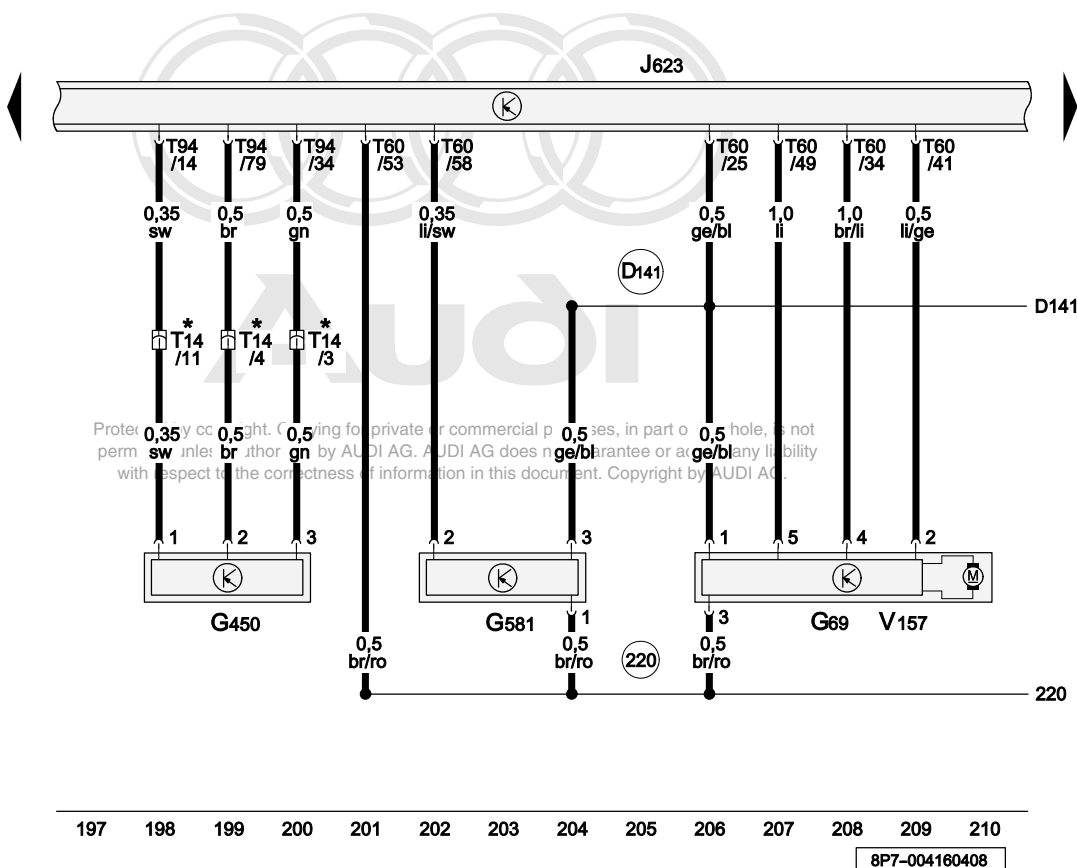
Throttle valve potentiometer, exhaust gas pressure sensor 1, position sender for charge pressure positioner, intake manifold flap motor

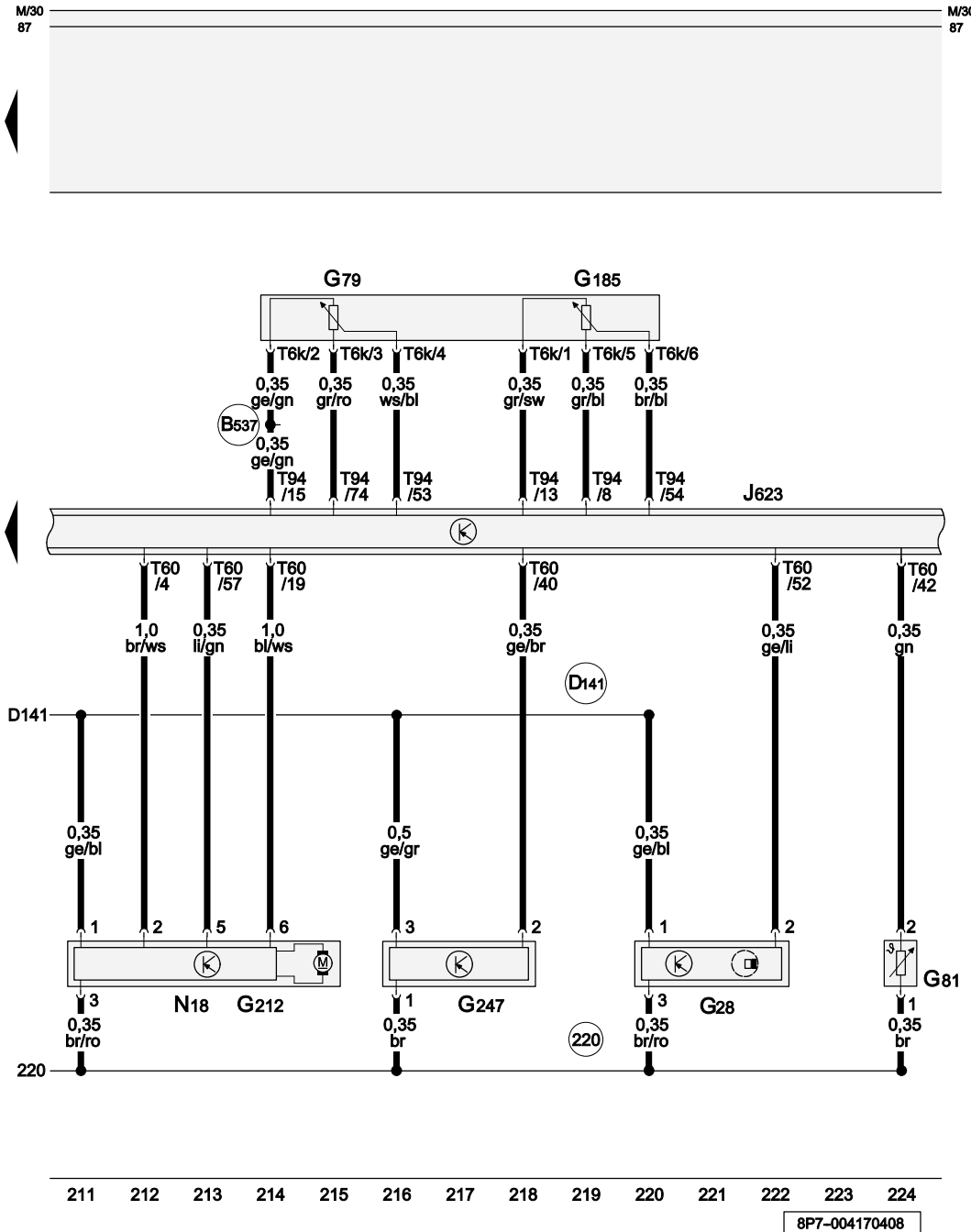
- G69 Throttle valve potentiometer
- G450 Exhaust gas pressure sensor 1
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- V157 Intake manifold flap motor
- T14 14-pin connector, black, near longitudinal member, front left
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

220 Earth connection (sender earth), in engine wiring harness

D141 Connection (5V), in engine wiring harness

* No longer fitted, phased-in modification





Accelerator position sender, exhaust gas recirculation potentiometer, fuel pressure sender, engine speed sender, fuel temperature sender

- G28 Engine speed sender
- G79 Accelerator position sender
- G81 Fuel temperature sender
- G185 Accelerator position sender 2
- G212 Exhaust gas recirculation potentiometer
- G247 Fuel pressure sender
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- T6k 6-pin connector, black, near accelerator position sender
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- 220 Earth connection (sender earth), in engine wiring harness
- B537 Connection 28 in main wiring harness
- D141 Connection (5V), in engine wiring harness

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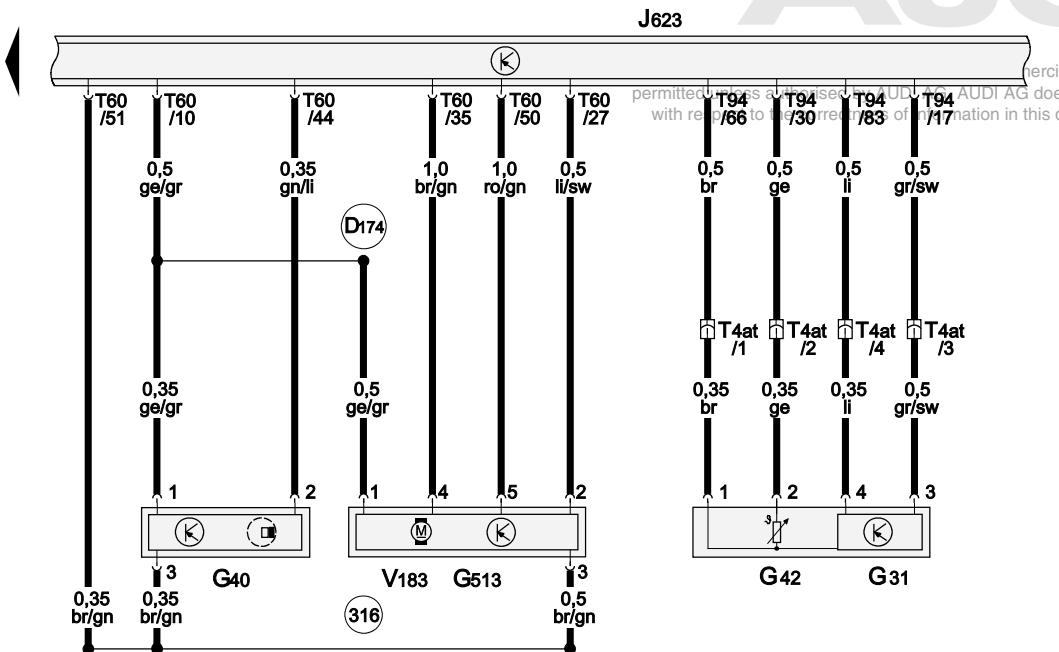


Intake air temperature sender, charge air pressure sender, variable intake manifold motor, Hall sender

- G31 Charge air pressure sender
- G40 Hall sender
- G42 Intake air temperature sender
- G513 Variable intake manifold position sender
- J623 Engine control unit
- T4at 4-pin connector, black, near starter
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V183 Variable intake manifold motor

316 Earth connection (sender earth 2), in engine wiring harness

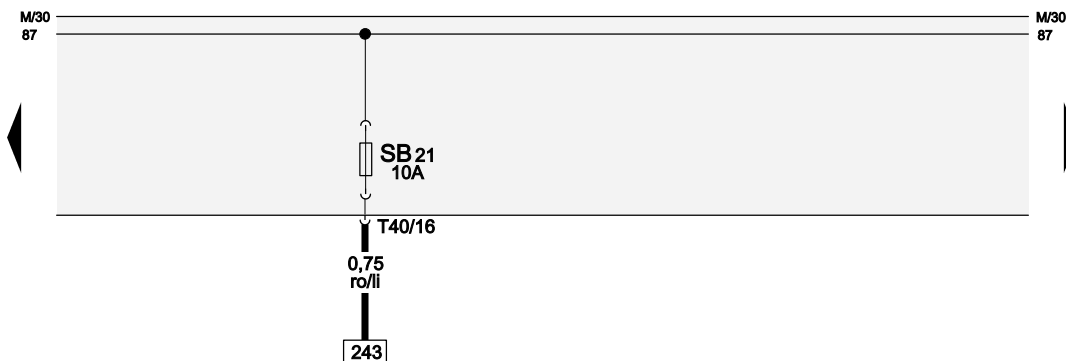
D174 Connection 2 (5V), in engine wiring harness



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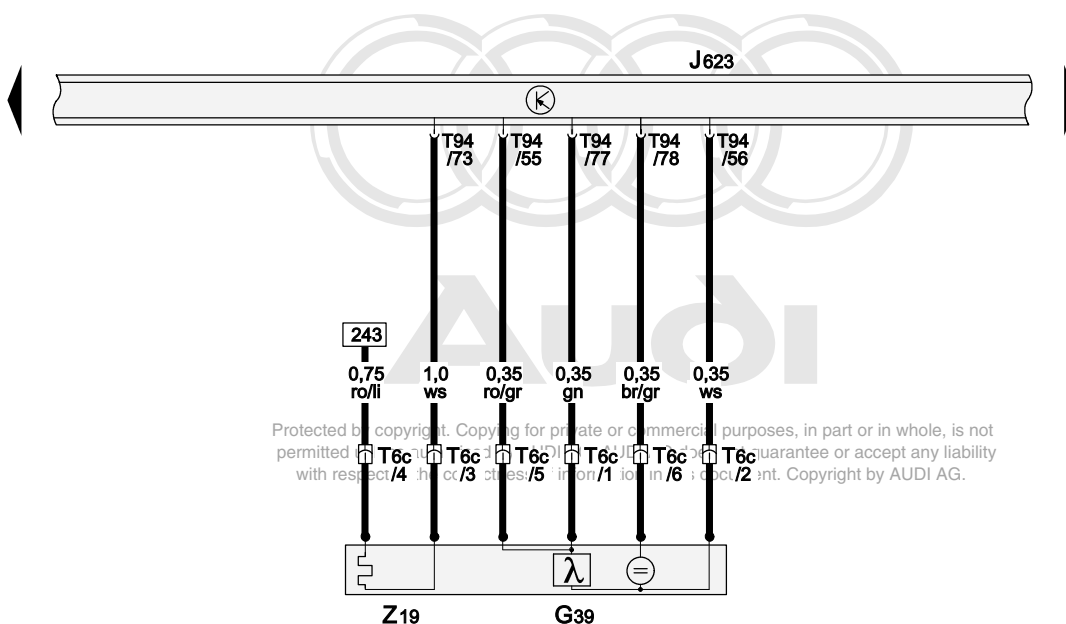
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Lambda probe

- G39 Lambda probe
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T6c 6-pin connector, black, on Lambda probe upstream of catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z19 Lambda probe heater



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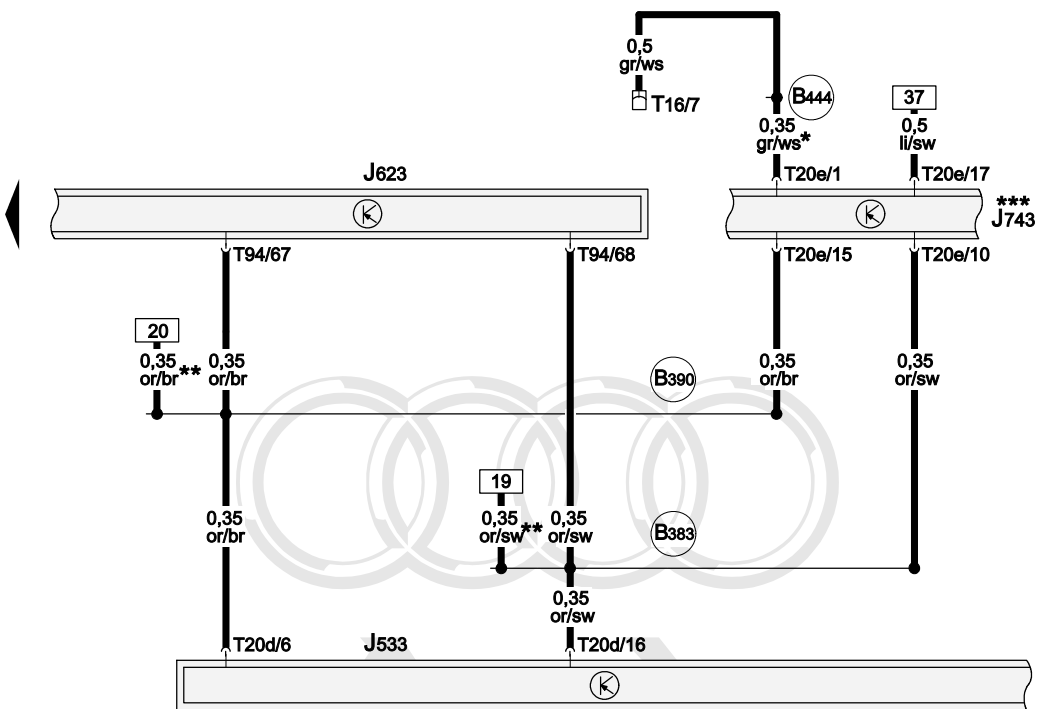
239 240 241 242 243 244 245 246 247 248 249 250 251 252

8P7-004190408



Drive train CAN bus, diagnosis

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for direct shift gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness
- * for models with diagnosis connection only
- ** for models with CAN bus drive train only
- *** for models with automatic gearbox only

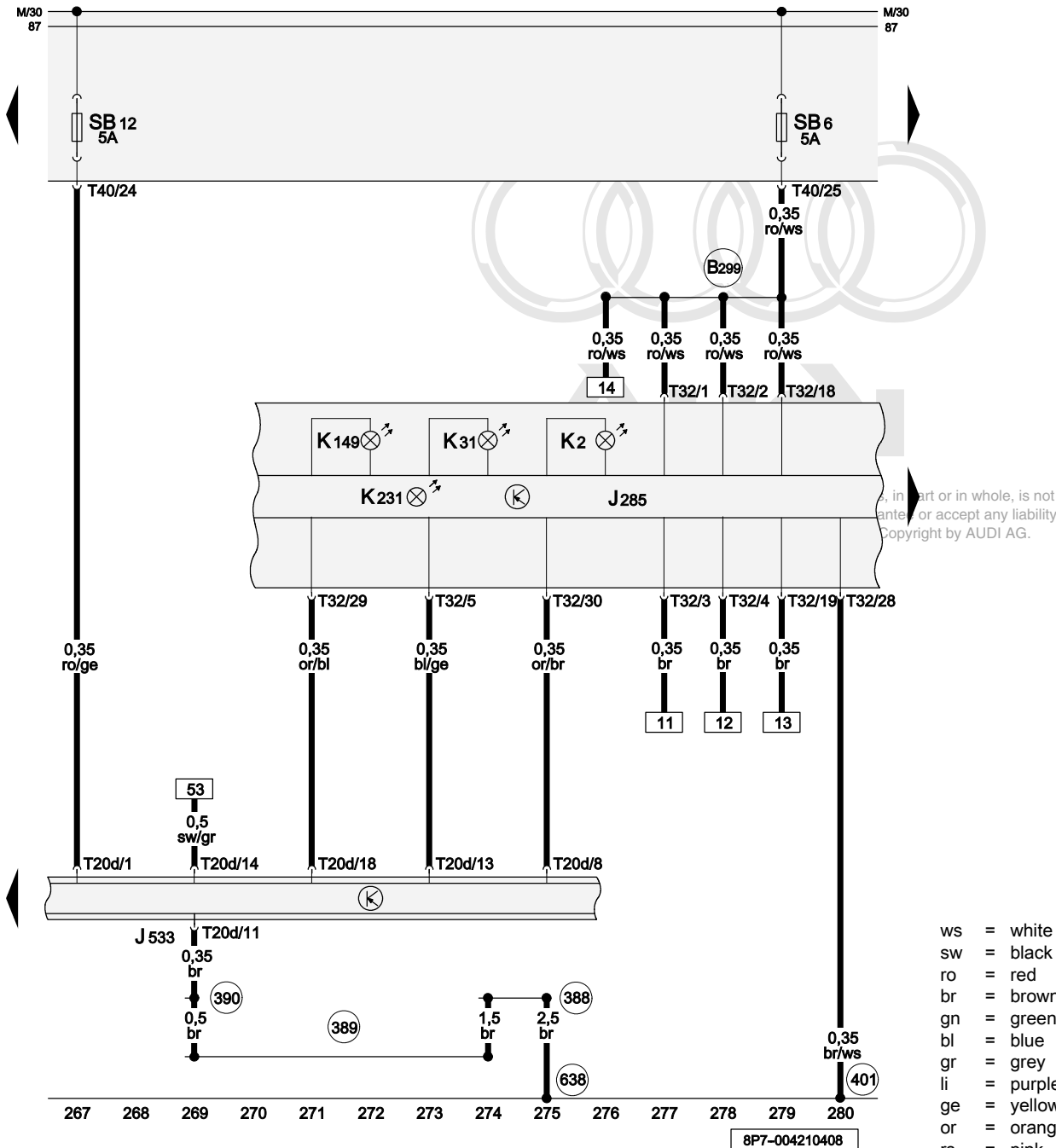


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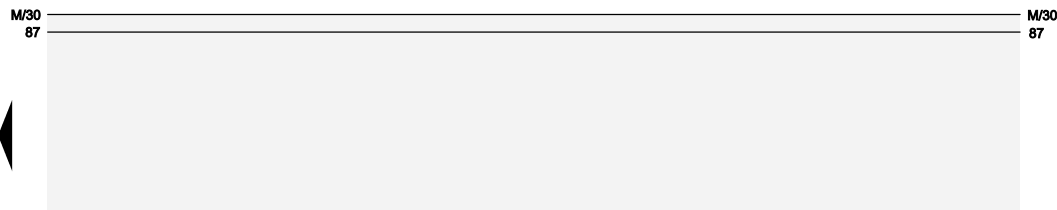
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Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- K231 Diesel particulate filter warning lamp
- SB6 Fuse 6 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 638 Earth point, right A-pillar
- B299 Positive connection 3 (30), in main wiring harness



Oil pressure switch, oil level and oil temperature sender

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, black, near longitudinal member, front left
- T14 14-pin connector, black, near longitudinal member, front left
- T32 32-pin connector, blue (connector A)

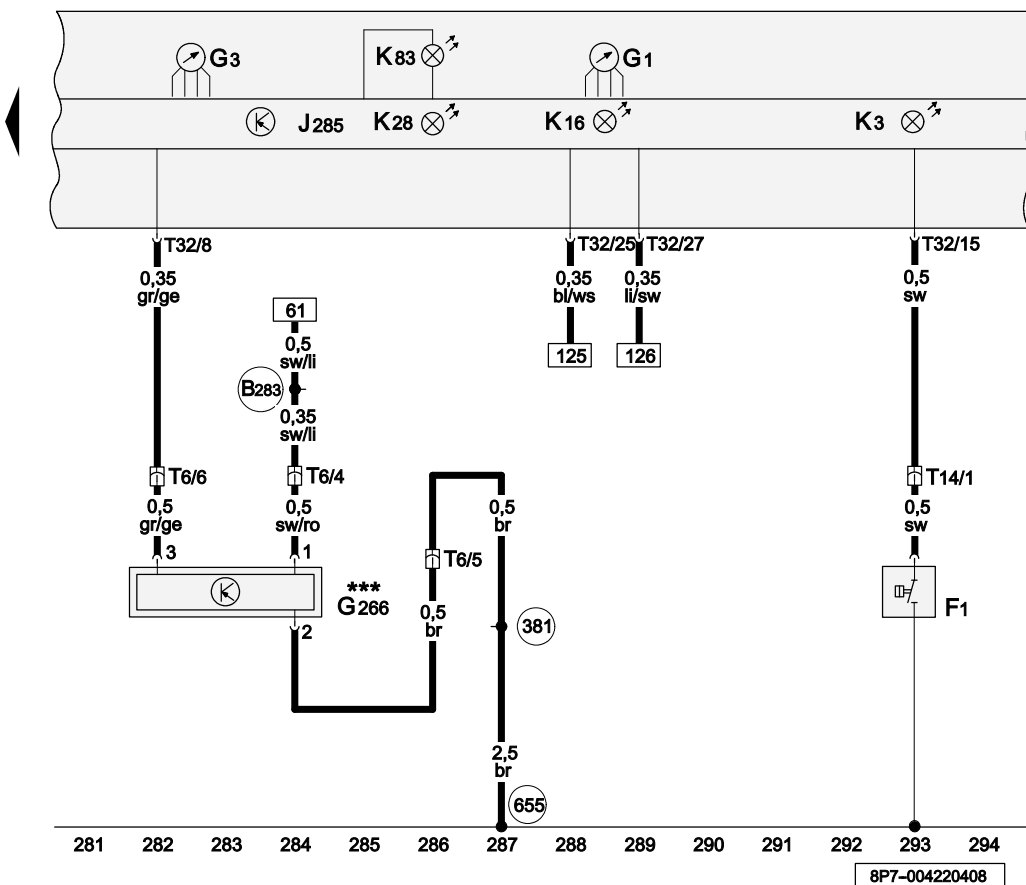
381 Earth connection 16, in main wiring harness

655 Earth point, on left headlight

B283 Positive connection 7 (15a), in main wiring harness

*** for models with extended servicing intervals (ESI) only

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1.8 l - Fuel injection engine (118 kW - TFSI - 4 cylinder), engine code BZB

from March 2008

2.0 l - Fuel injection engine (147 kW - TFSI - 4 cylinder), engine code CAWB

from March 2008

1.8 l - Fuel injection engine (118 kW - TFSI - 4 cylinder), engine code CDAA

from March 2008

2.0 l - Fuel injection engine (147 kW - TFSI - 4 cylinder), engine code CCZA

from March 2009

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



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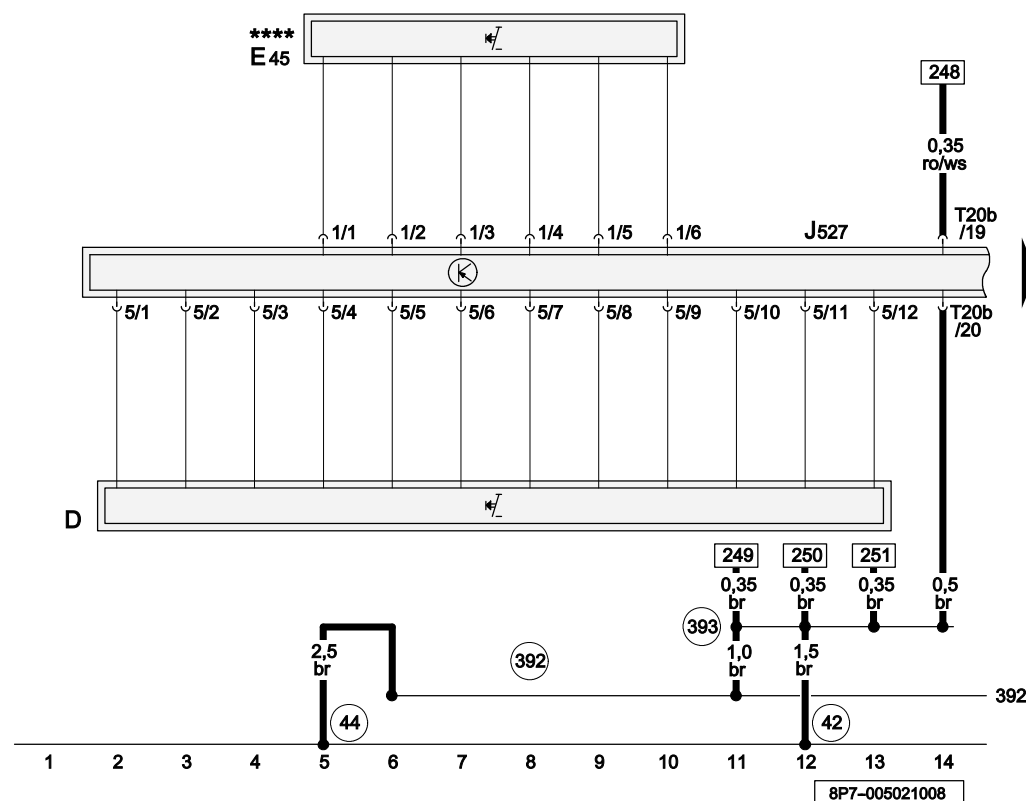
M/30

M/30

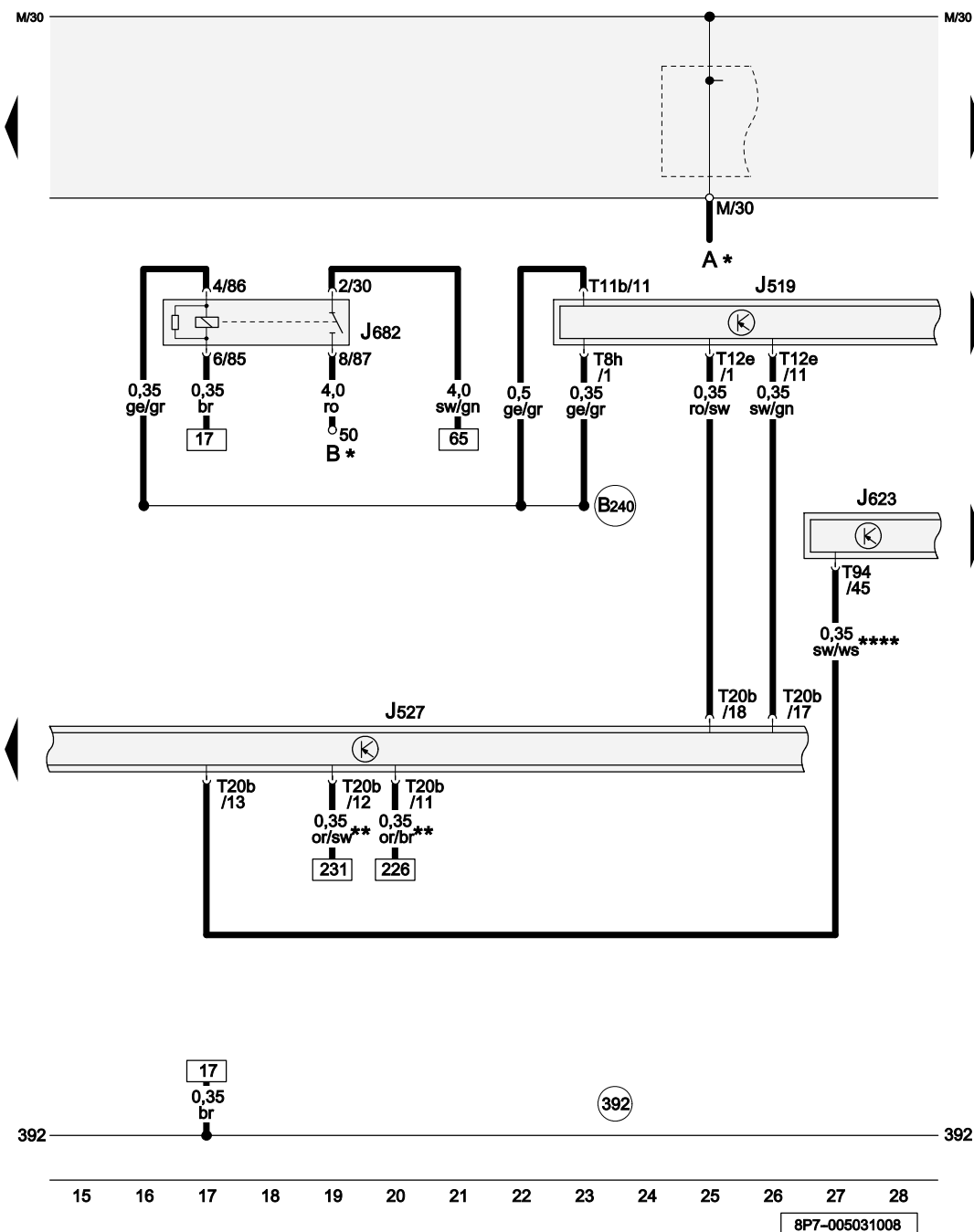
Cruise control system switch, ignition/starter switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- T20b 20-pin connector, black (connector A)
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness

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 gr = grey
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Electronics box supply, terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T8h 8-pin connector, black (connector F)
- T11b 11-pin connector, black (connector A)
- T12e 12-pin connector, black (connector G)
- T20b 20-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

392 Earth connection 27, in main wiring harness

B240 Positive connection 2 (50), in interior wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

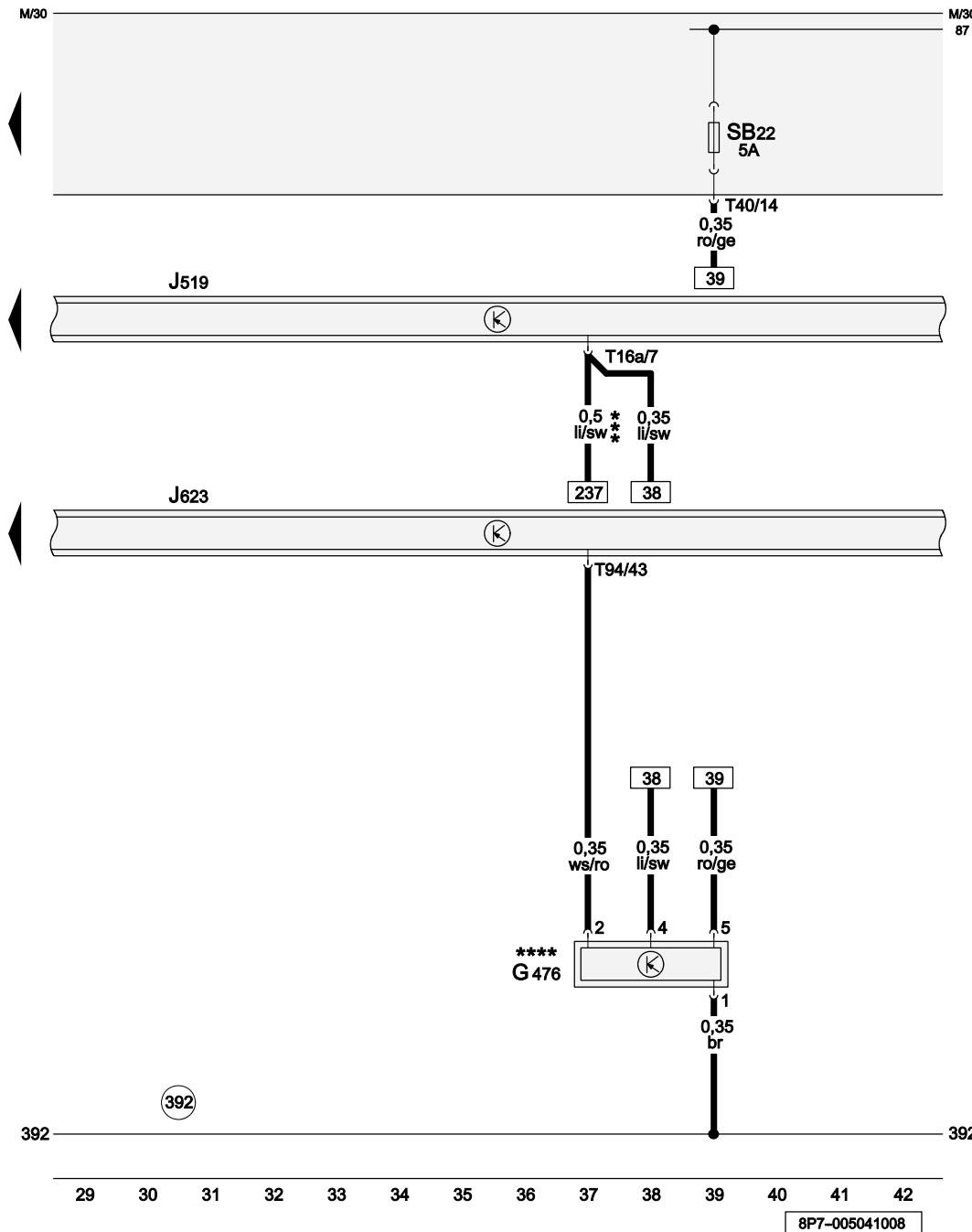
** for models with CAN bus drive train only

**** for models with cruise control system only



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Clutch position sender

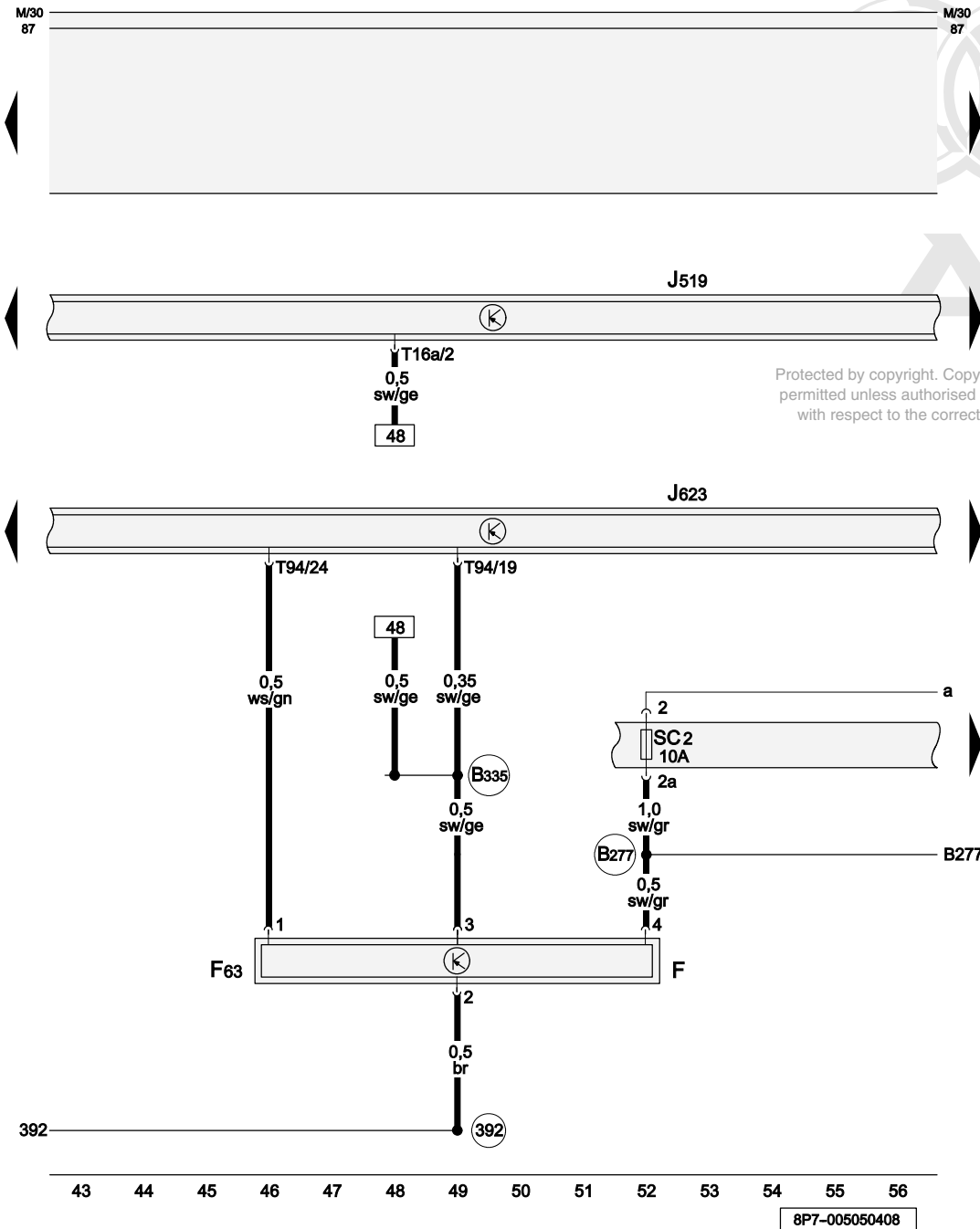
- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)

392 Earth connection 27, in main wiring harness

- *** for models with automatic gearbox only
- **** for models with manual gearbox only



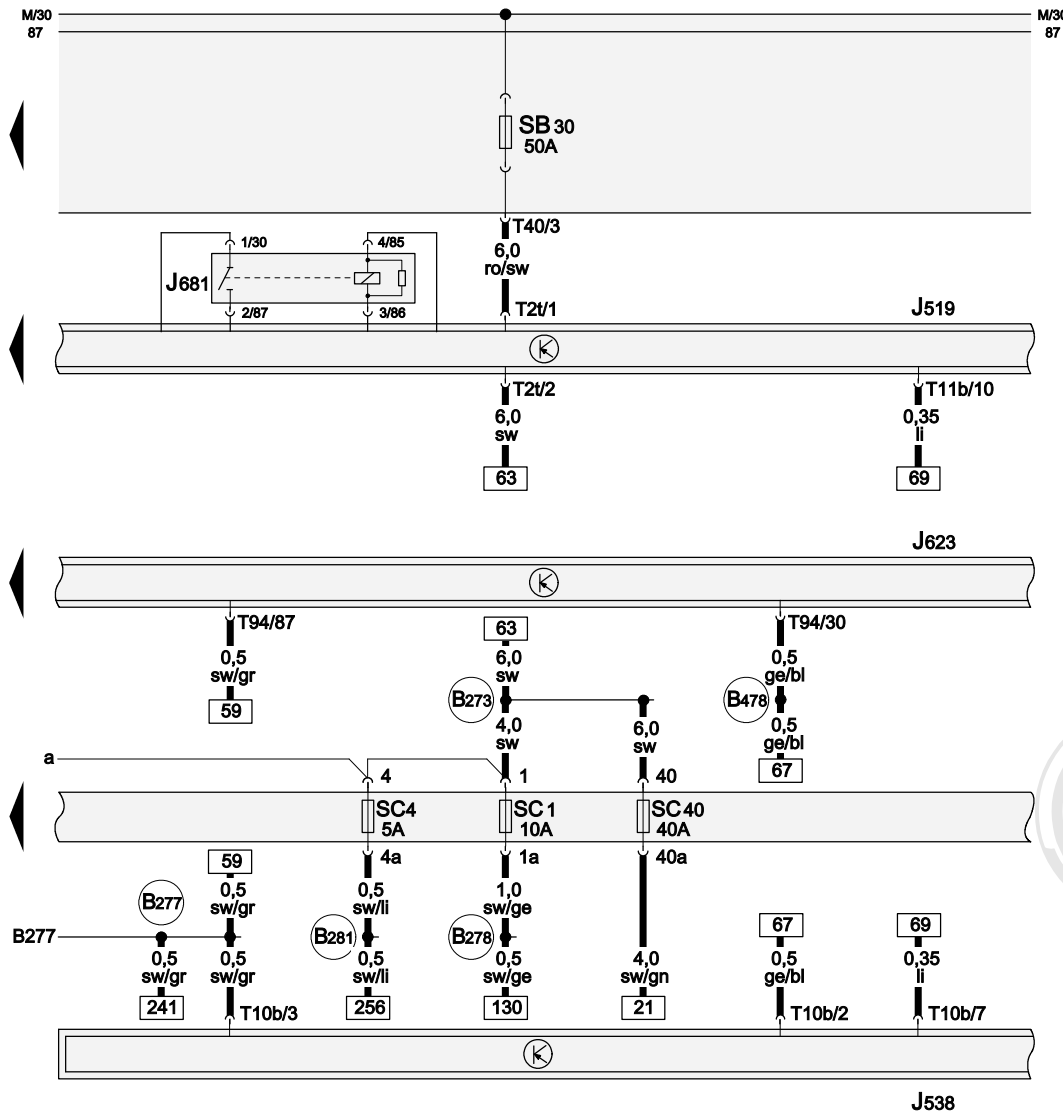
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Brake light switch, brake pedal switch

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SC2 Fuse 2 on fuse holder C
- T16a 16-pin connector, black (connector E)
- T94 94-pin connector, black (connector B)
- 392 Earth connection 27, in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B335 Connection 1 (54), in main wiring harness

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Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J538 Fuel pump control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC40 Fuse 40 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T10b 10-pin connector, black (connector A)
- T11b 11-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B478 Connection 14 in main wiring harness

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ro = red

br = brown

gn = green

bl = blue

gr = grey

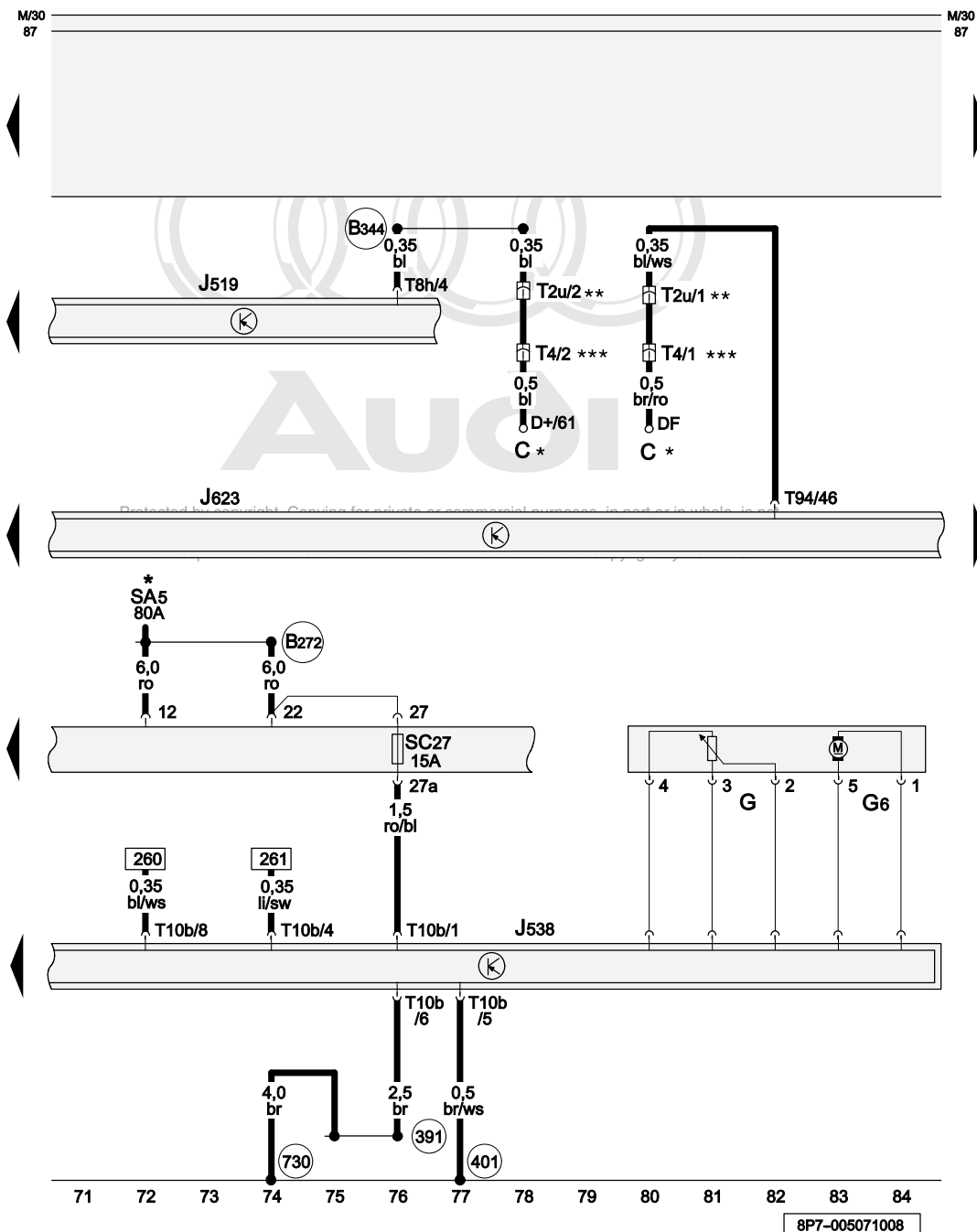
li = purple

ge = yellow

or = orange

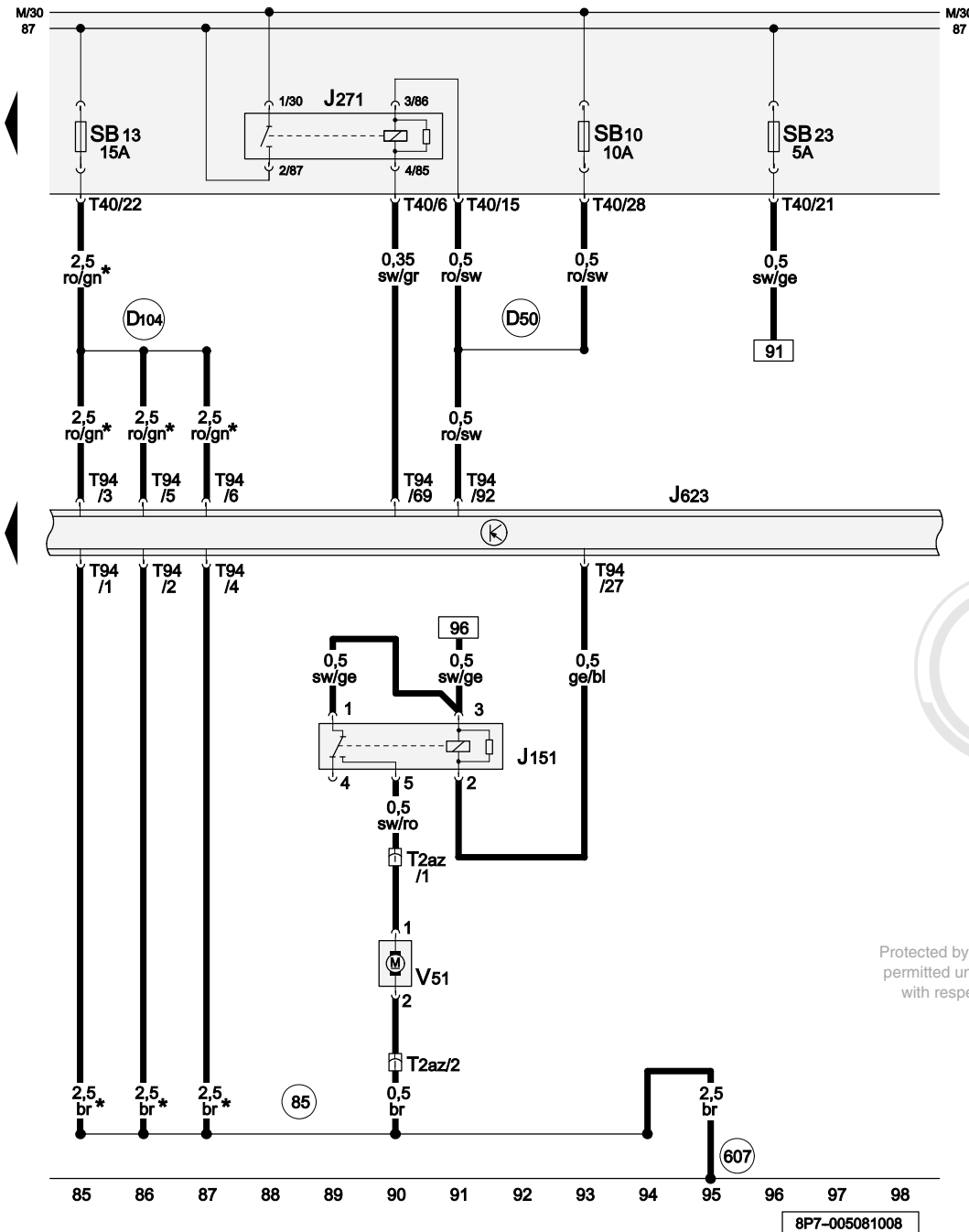
rs = pink

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Alternator, fuel gauge sender, fuel system pressurisation pump

- C Alternator
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J519 Onboard supply control unit
- J538 Fuel pump control unit
- J623 Engine control unit
- SA5 Fuse 5 on fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, brown, in front left engine compartment
- T4 4-pin connector, black, in front left engine compartment
- T8h 8-pin connector, black (connector F)
- T10b 10-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- 391 Earth connection 26, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 730 Earth point 1 on rear right wheel housing
- B272 Positive connection (30), in main wiring harness
- B344 Connection 1 (61), in main wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models without air conditioning system only
- *** for models with air conditioning system only



Motronic current supply relay, continued coolant circulation relay, continued coolant circulation pump

- J151 Continued coolant circulation relay
- J271 Motronic current supply relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T2az 2-pin connector
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- V51 Continued coolant circulation pump
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D50 Positive connection (30), in engine compartment wiring harness
- D104 Positive connection 2 (30a), in engine compartment wiring harness

* Cross-section was modified from 2.5 mm² to 1.5 mm² (phased-in modification)

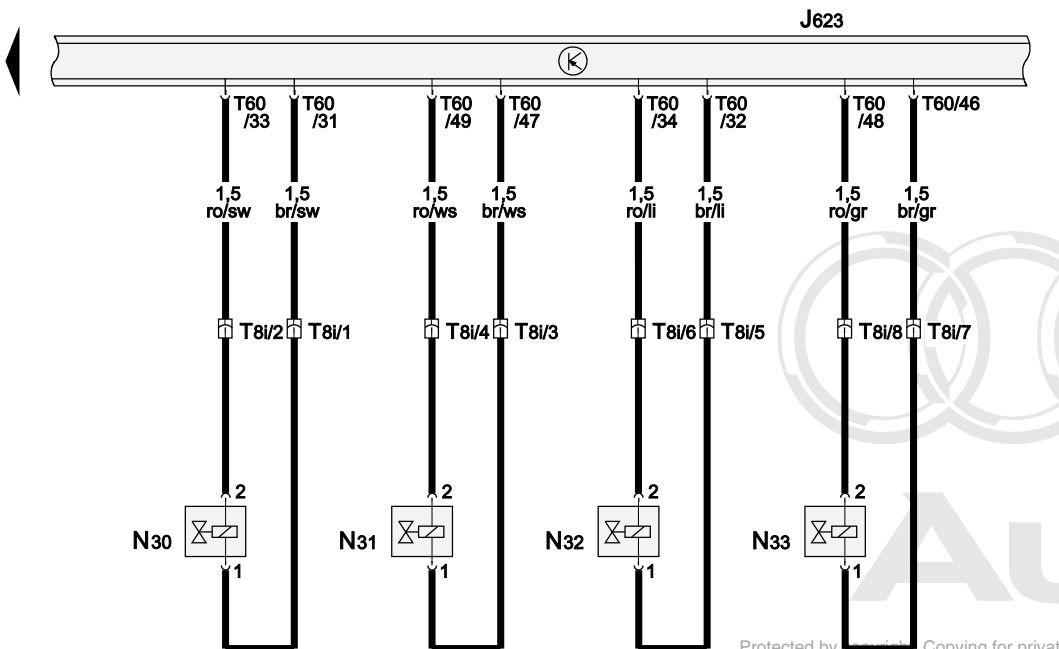
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Injectors

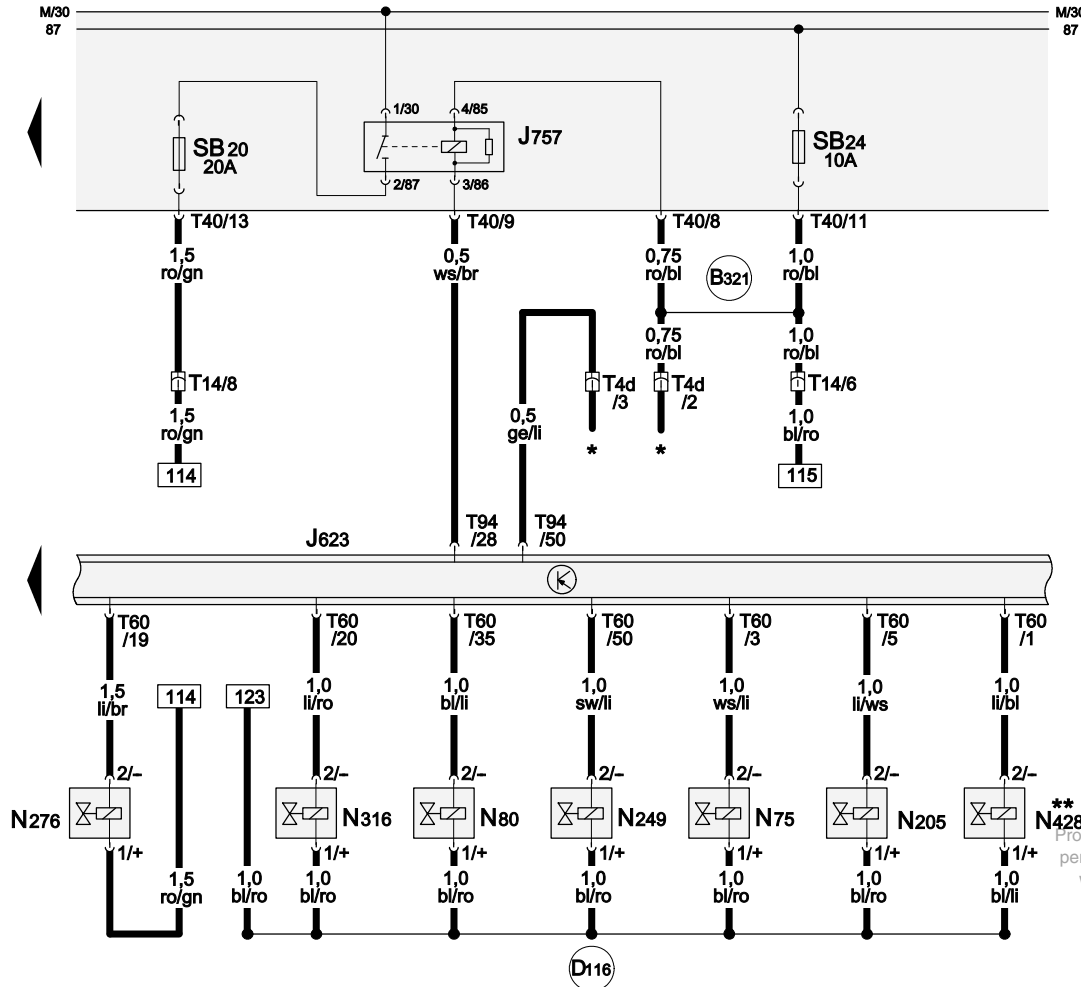
- J623 Engine control unit
- N30 Injector, cylinder 1
- N31 Injector, cylinder 2
- N32 Injector, cylinder 3
- N33 Injector, cylinder 4
- T8i 8-pin connector, black, near injectors
- T60 60-pin connector, black (connector A)



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ge = yellow
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99 100 101 102 103 104 105 106 107 108 109 110 111 112

8P7-005090108



Current supply relay, solenoid valves

- J623 Engine control unit
- J757 Engine component current supply relay
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter system solenoid valve 1
- N205 Inlet camshaft control valve 1
- N249 Turbocharger air recirculation valve
- N276 Fuel pressure regulating valve
- N316 Intake manifold flap valve
- N428 Valve for oil pressure control
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

B321 Positive connection 7 (30a), in main wiring harness

D116 Connection 14, in engine compartment wiring harness

* ⇒ applicable Current Flow Diagram: radiator fan control
 ** for models with engine codes CDAA, CCZA only

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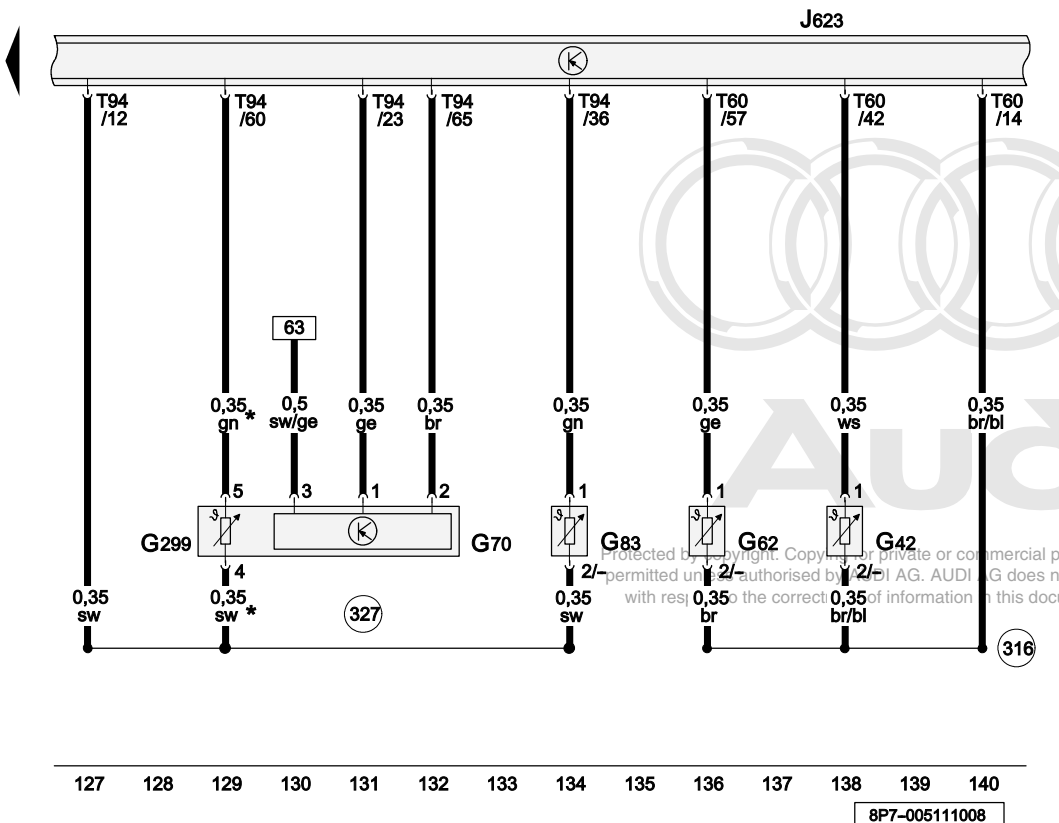
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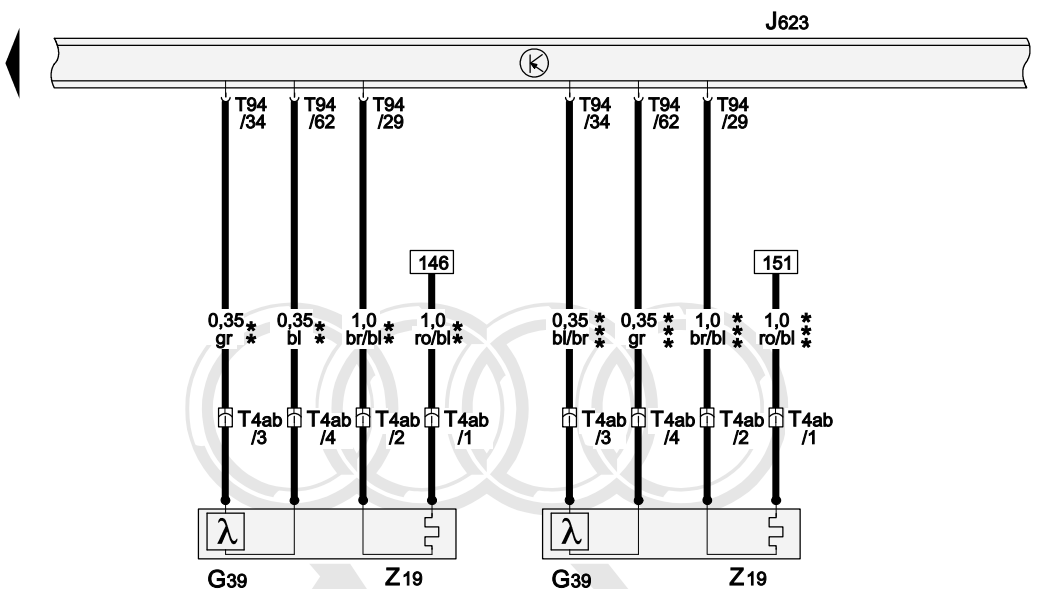
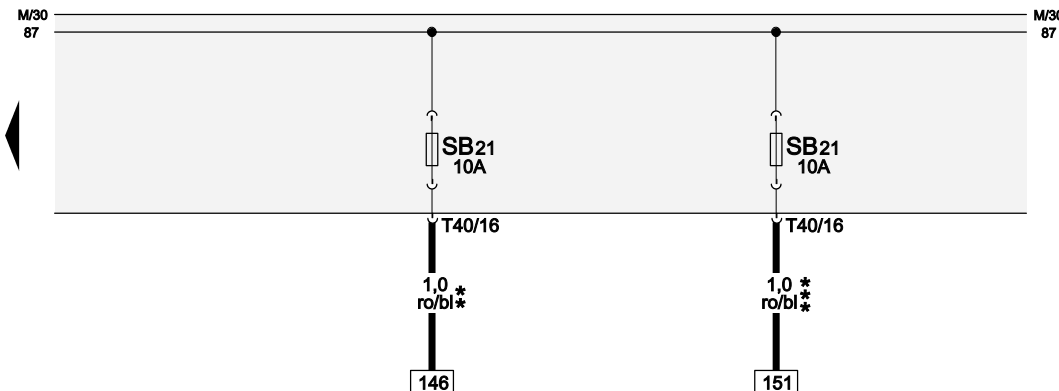


Air mass meter, temperature sender

- G42 Intake air temperature sender
- G62 Coolant temperature sender
- G70 Air mass meter
- G83 Radiator outlet coolant temperature sender
- G299 Intake air temperature sender 2
- J623 Engine control unit
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

- 316 Earth connection (sender earth 2), in engine wiring harness
- 327 Earth connection (sender earth), in engine compartment wiring harness
- * for models with engine codes CDAA, BZB only





Lambda probes

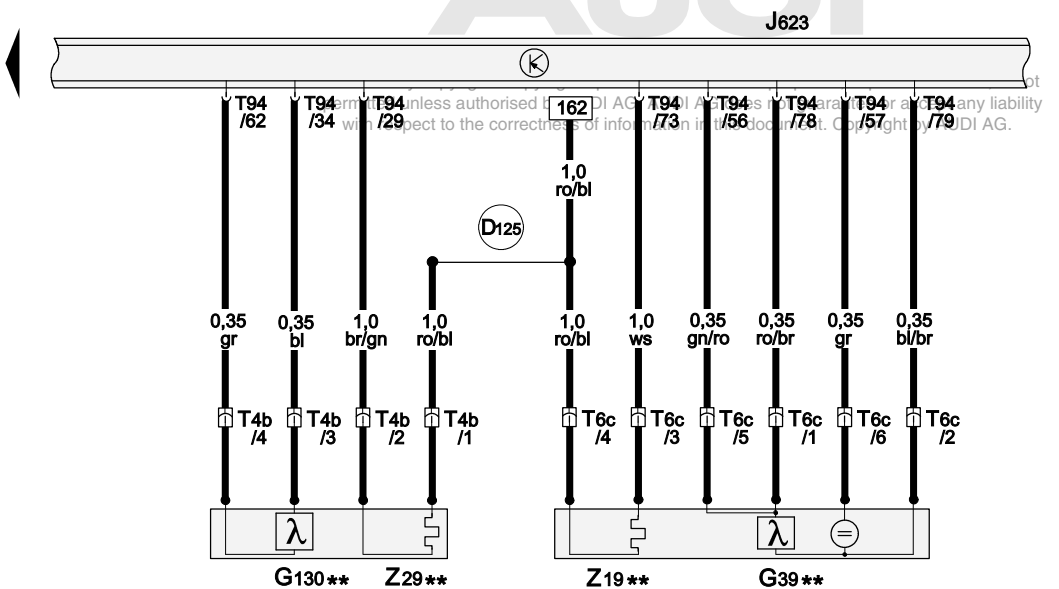
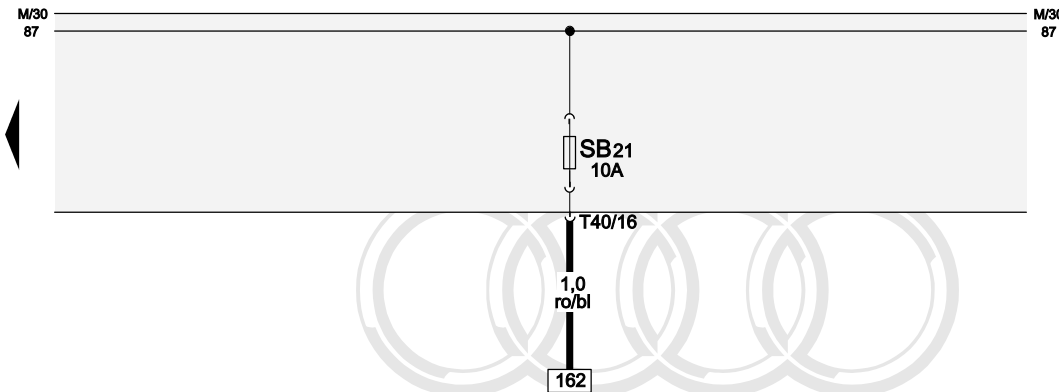
- G39 Lambda probe
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T4ab 4-pin connector, brown, on Lambda probe after catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z19 Lambda probe heater
- ** for models with engine code BZB only
- *** for models with engine code CAWB only

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141 142 143 144 145 146 147 148 149 150 151 152 153 154

8P7-005120408



Lambda probes

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T4b 4-pin connector, black, on Lambda probe after catalytic converter
- T6c 6-pin connector, black, on Lambda probe upstream of catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter

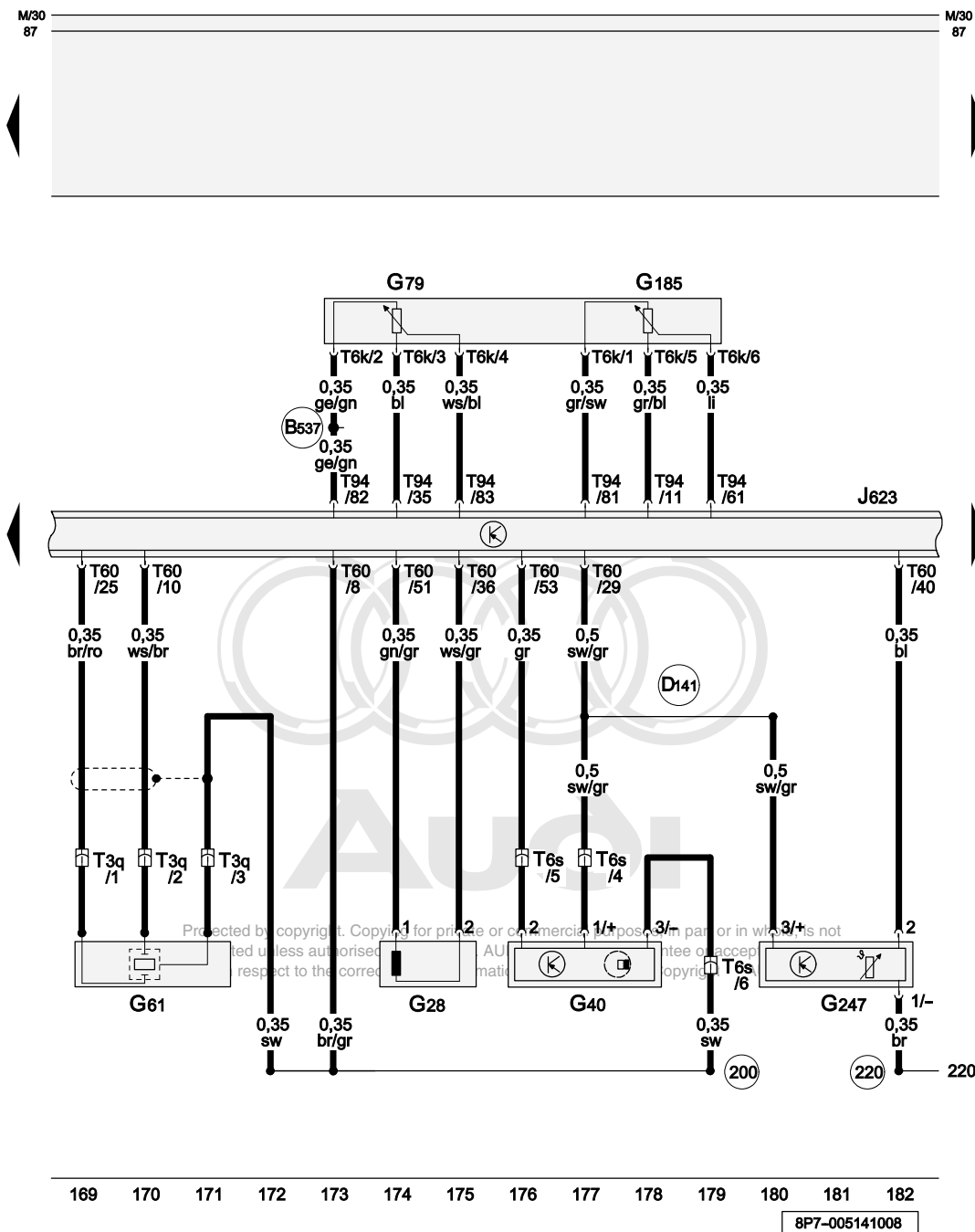
D125 Connection 23, in engine compartment wiring harness

** for models with engine codes CDAA, CCZA only

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155 156 157 158 159 160 161 162 163 164 165 166 167 168

8P7-005131008



Knock sensor, engine speed sender, Hall sender, accelerator position sender, fuel pressure sender

- | | |
|------|---|
| G28 | Engine speed sender |
| G40 | Hall sender |
| G61 | Knock sensor 1 |
| G79 | Accelerator position sender |
| G185 | Accelerator position sender 2 |
| G247 | Fuel pressure sender |
| J623 | Engine control unit |
| T3q | 3-pin connector, green, in left engine compartment (knock sensor) |
| T6k | 6-pin connector, black, near accelerator position sender |
| T6s | 6-pin connector, black, behind intake manifold |
| T60 | 60-pin connector, black (connector A) |
| T94 | 94-pin connector, black (connector B) |
| 200 | Earth connection (screening) in engine compartment wiring harness |
| 220 | Earth connection (sender earth), in engine wiring harness |
| B537 | Connection 28 in main wiring harness |
| D141 | Connection (5V), in engine wiring harness |

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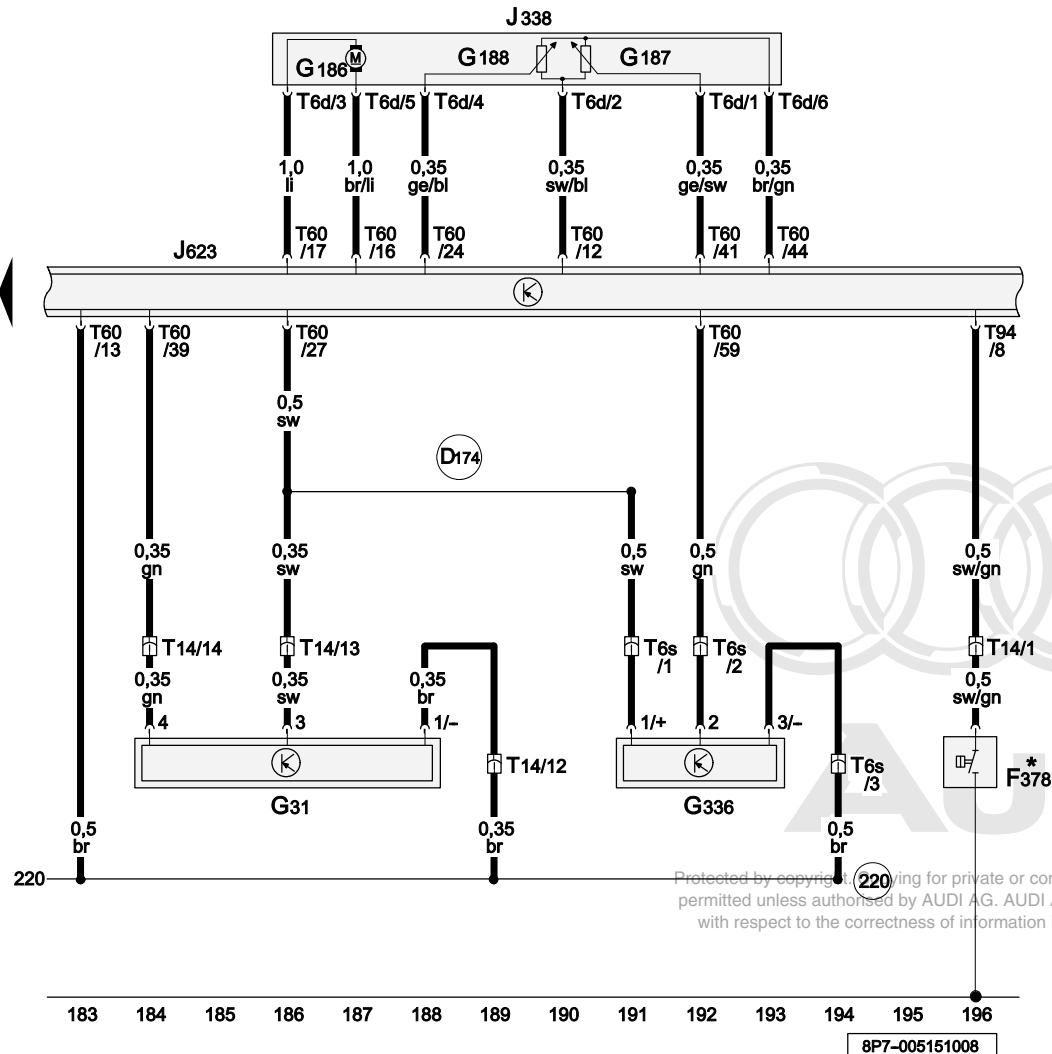
Throttle valve module, charge air pressure sender, intake manifold flap potentiometer

- F378 Oil pressure switch for reduced oil pressure
- G31 Charge air pressure sender
- G186 Throttle valve drive (electric power control)
- G187 Throttle valve drive angle sender 1 for electric throttle
- G188 Throttle valve drive angle sender 2 for electric throttle
- G336 Intake manifold flap potentiometer
- J338 Throttle valve module
- J623 Engine control unit
- T6d 6-pin connector, black, near throttle valve module
- T6s 6-pin connector, black, behind intake manifold
- T14 14-pin connector, black, near longitudinal member, front left
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

220 Earth connection (sender earth), in engine wiring harness

D174 Connection 2 (5V), in engine wiring harness

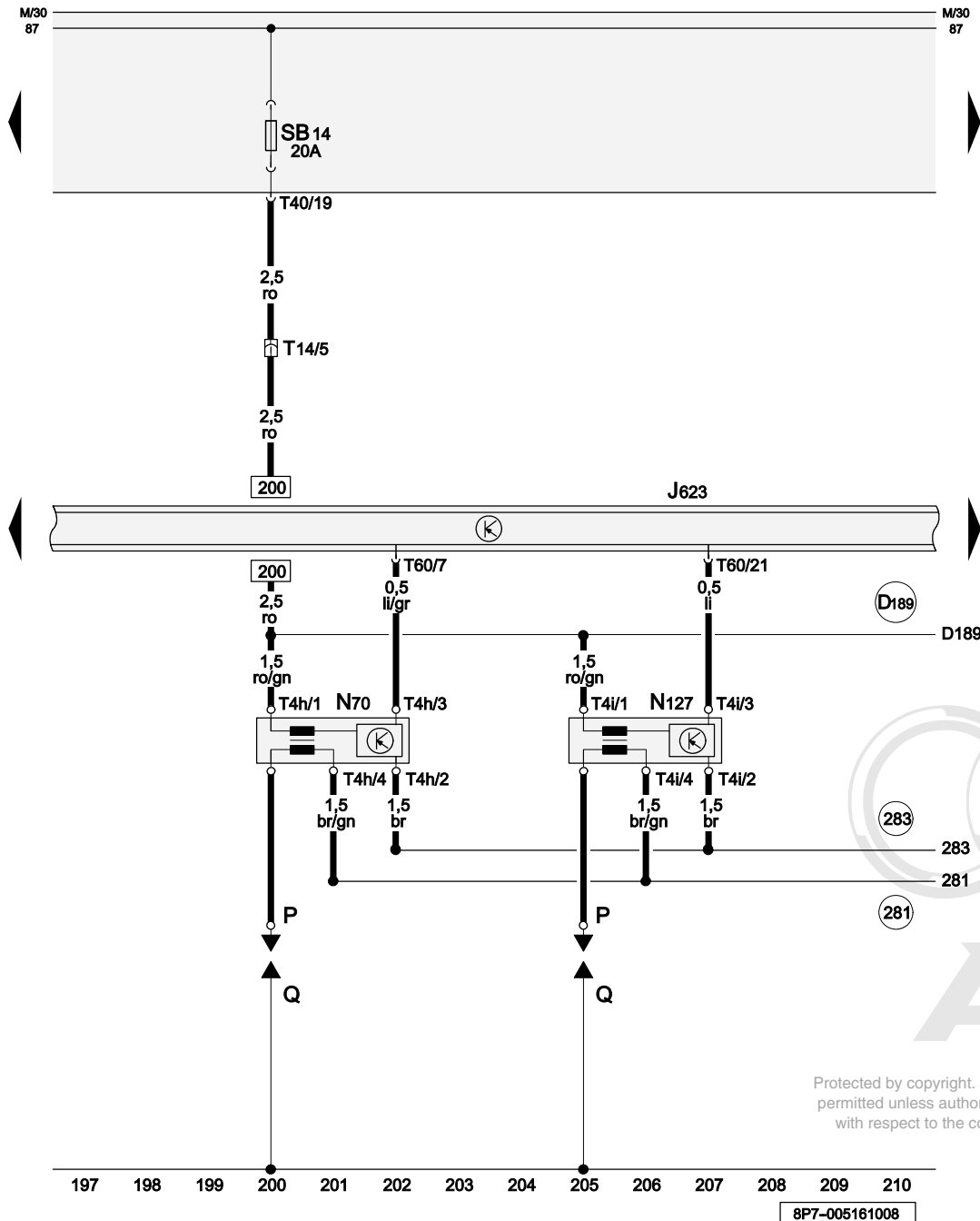
* for models with engine codes CDAA, CCZA only



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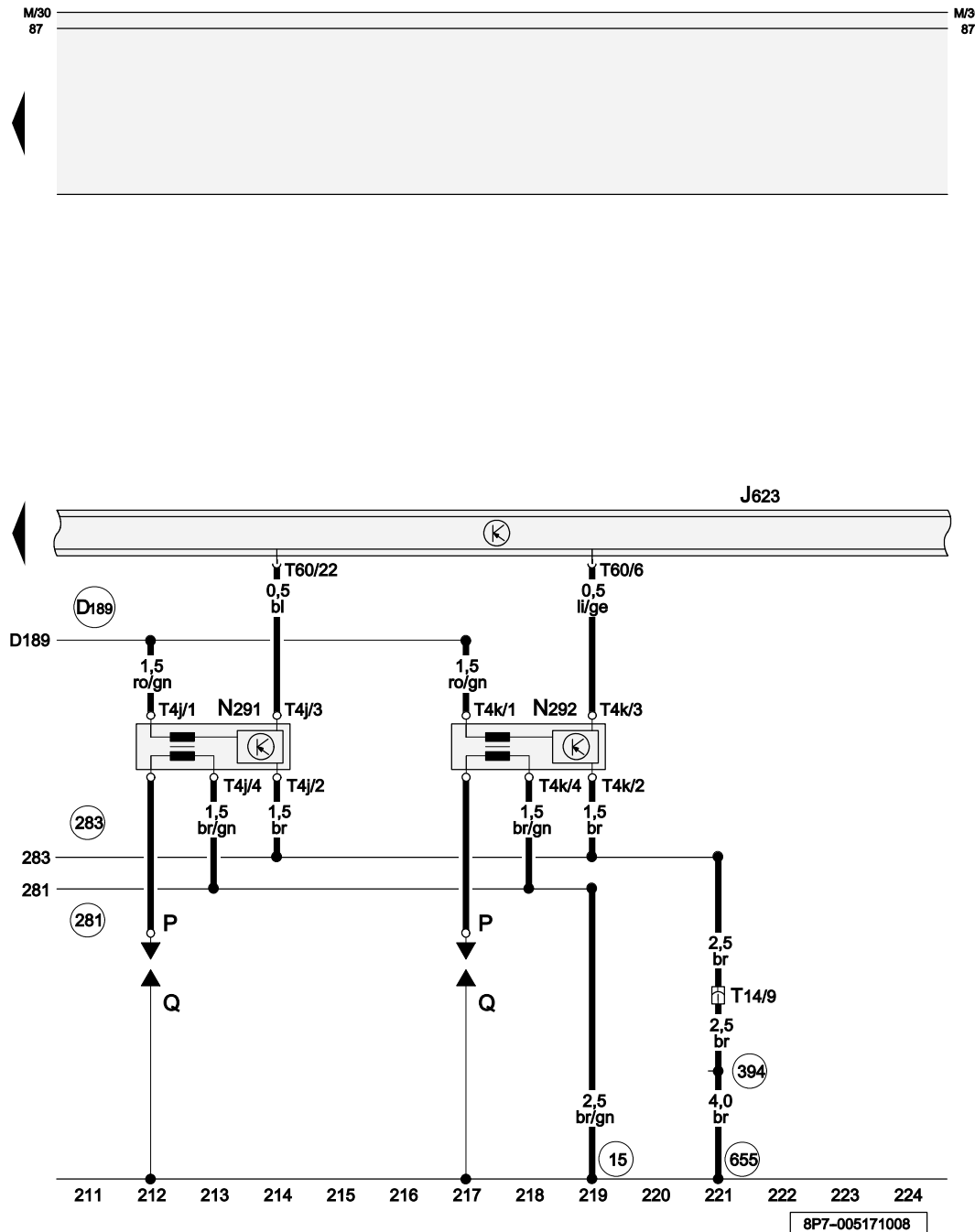
Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

- J623 Engine control unit
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- P Spark plug connector
- Q Spark plugs
- SB14 Fuse 14 on fuse holder B
- T4h 4-pin connector, black, on ignition coil 1 with output stage
- T4i 4-pin connector, black, on ignition coil 2 with output stage
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- (281) Earth connection 1, in engine harness
- (283) Earth connection 2, in engine harness
- (D189) Connection (87a), in engine wiring harness

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8P7-005161008



Ignition coils 3 and 4 with output stage, spark plug connector, spark plugs

- J623 Engine control unit
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- P Spark plug connector
- Q Spark plugs
- T4j 4-pin connector, black, on ignition coil 3 with output stage
- T4k 4-pin connector, black, on ignition coil 4 with output stage
- T14 14-pin connector, black, near longitudinal member, front left
- T60 60-pin connector, black (connector A)

- 15 Earth point, on cylinder head
- 281 Earth connection 1, in engine harness
- 283 Earth connection 2, in engine harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- D189 Connection (87a), in engine wiring harness

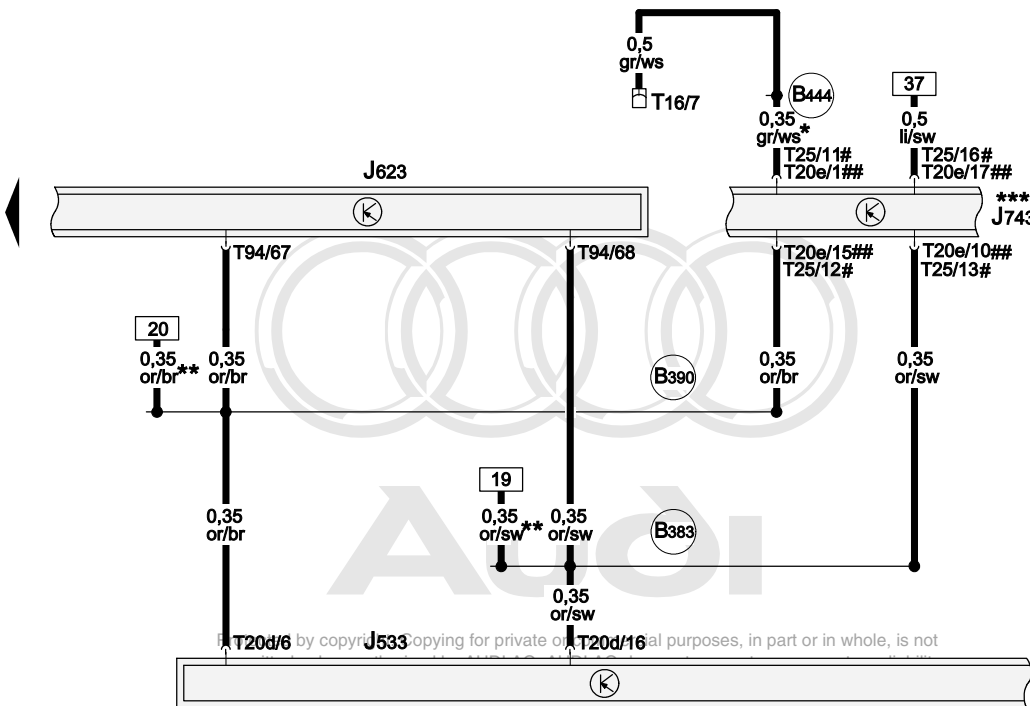
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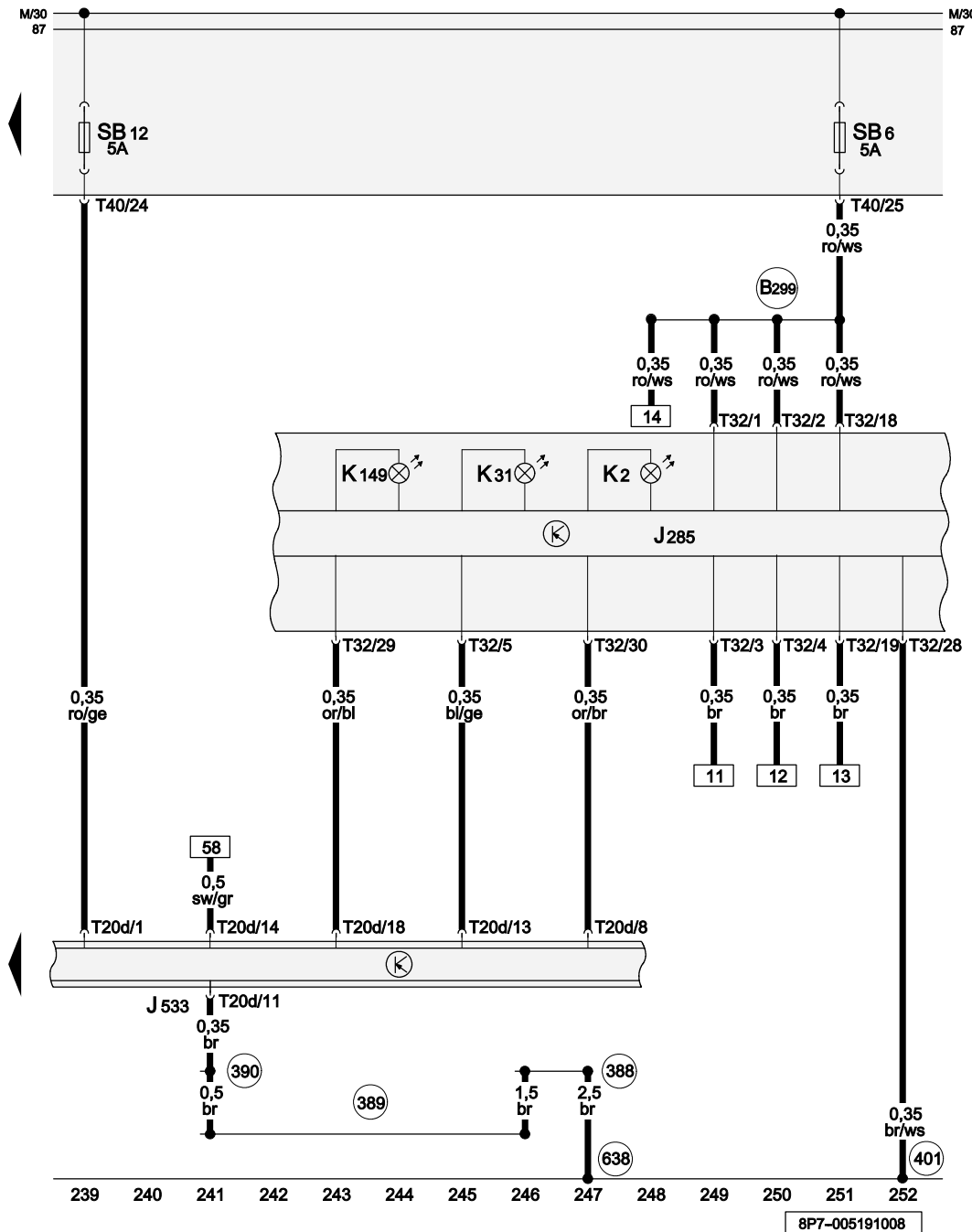
Drive train CAN bus, diagnosis

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for direct shift gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T25 25-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- (B383) Connection 1 (drive train CAN bus, high), in main wiring harness
- (B390) Connection 1 (drive train CAN bus, low), in main wiring harness
- (B444) Connection 1 (diagnosis), in main wiring harness

- * for models with diagnosis connection only
- ** for models with CAN bus drive train only
- *** for models with automatic gearbox only
- # for models with direct shift gearbox 0AM only
- ## for models with direct shift gearbox (02E) only



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Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- SB6 Fuse 6 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 638 Earth point, right A-pillar
- B299 Positive connection 3 (30), in main wiring harness

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Oil pressure switch, oil level and oil temperature sender

- F1 Oil pressure switch
- F22 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, black, near longitudinal member, front left
- T14 14-pin connector, black, near longitudinal member, front left
- T32 32-pin connector, blue (connector A)

381 Earth connection 16, in main wiring harness

655 Earth point, on left headlight

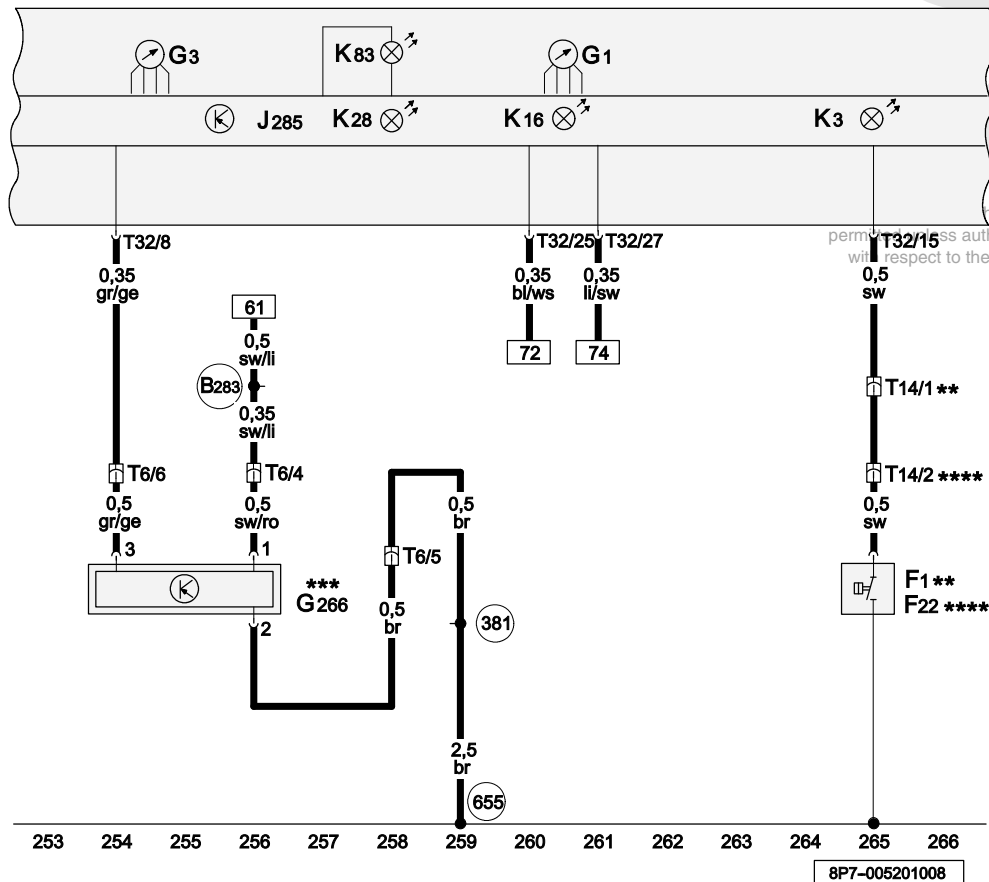
B283 Positive connection 7 (15a), in main wiring harness

** for models with engine code CAWB, BZB only

*** for models with extended servicing intervals (ESI) only

**** for models with engine codes CDAA, CCZA only

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Airbags for driver and front passenger with belt tensioners and side airbags

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

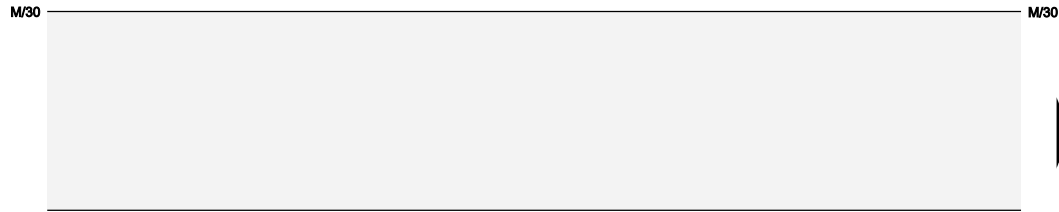
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder, front passenger side airbag deactivated warning lamp

- J234 Airbag control unit
- K145 Front passenger side airbag deactivated warning lamp
- SC2 Fuse 2 on fuse holder C
- SC3 Fuse 3 on fuse holder C
- T75 75-pin connector, yellow (connector locking green)

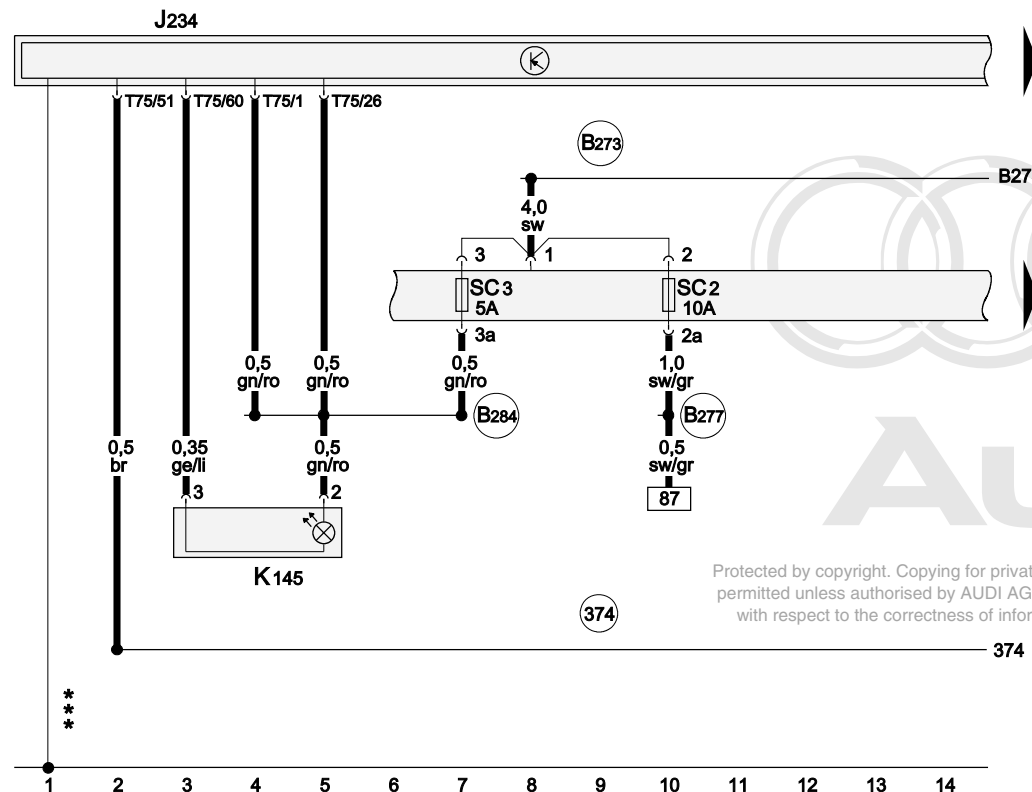
(374) Earth connection 9, in main wiring harness

(B273) Positive connection (15), in main wiring harness

(B277) Positive connection 1 (15a), in main wiring harness

(B284) Positive connection 8 (15a), in main wiring harness

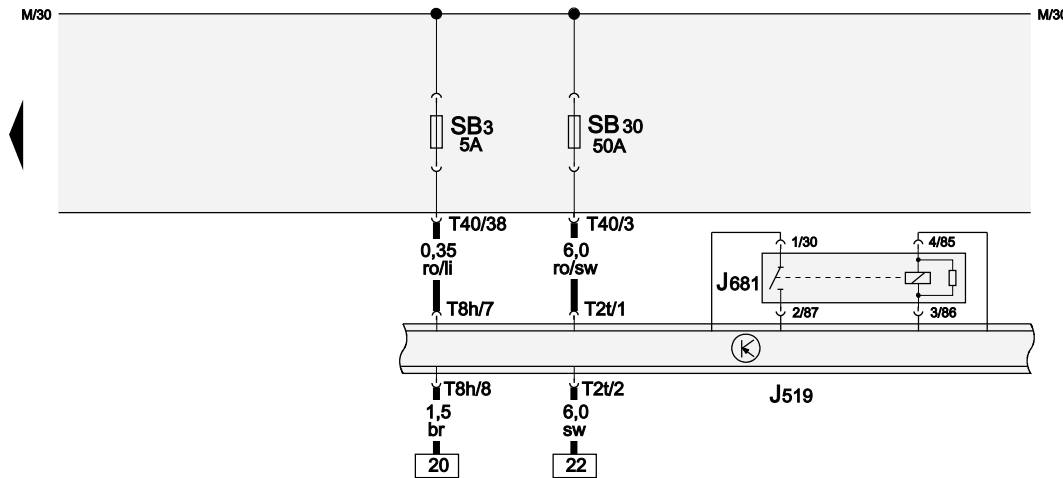
*** Earth supply via the housing from airbag control unit



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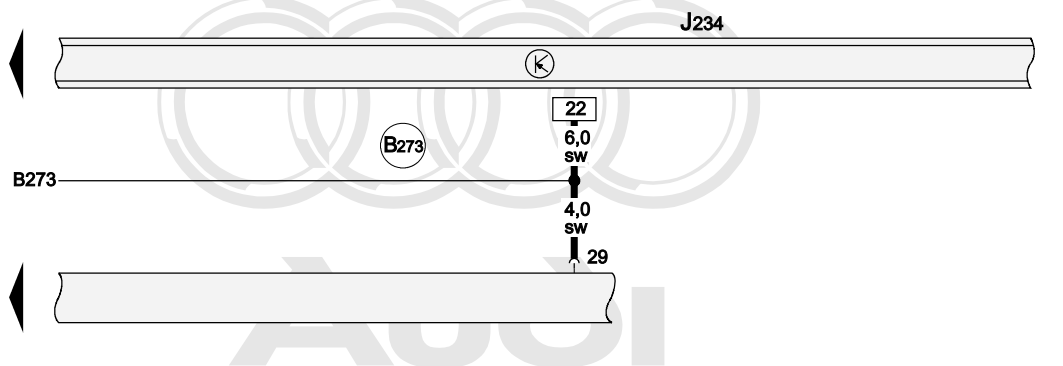
8P7-006020108



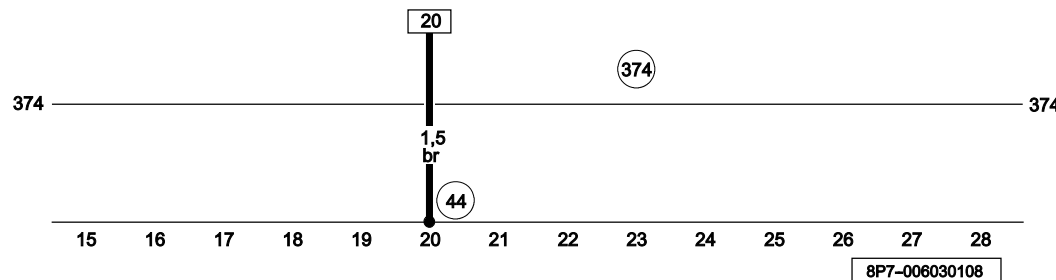
Terminal 15 voltage supply relay 2

- J234 Airbag control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB3 Fuse 3 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector, black (connector L)
- T8h 8-pin connector, black (connector F)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 44 Earth point, lower part of left A-pillar
- 374 Earth connection 9, in main wiring harness
- B273 Positive connection (15), in main wiring harness



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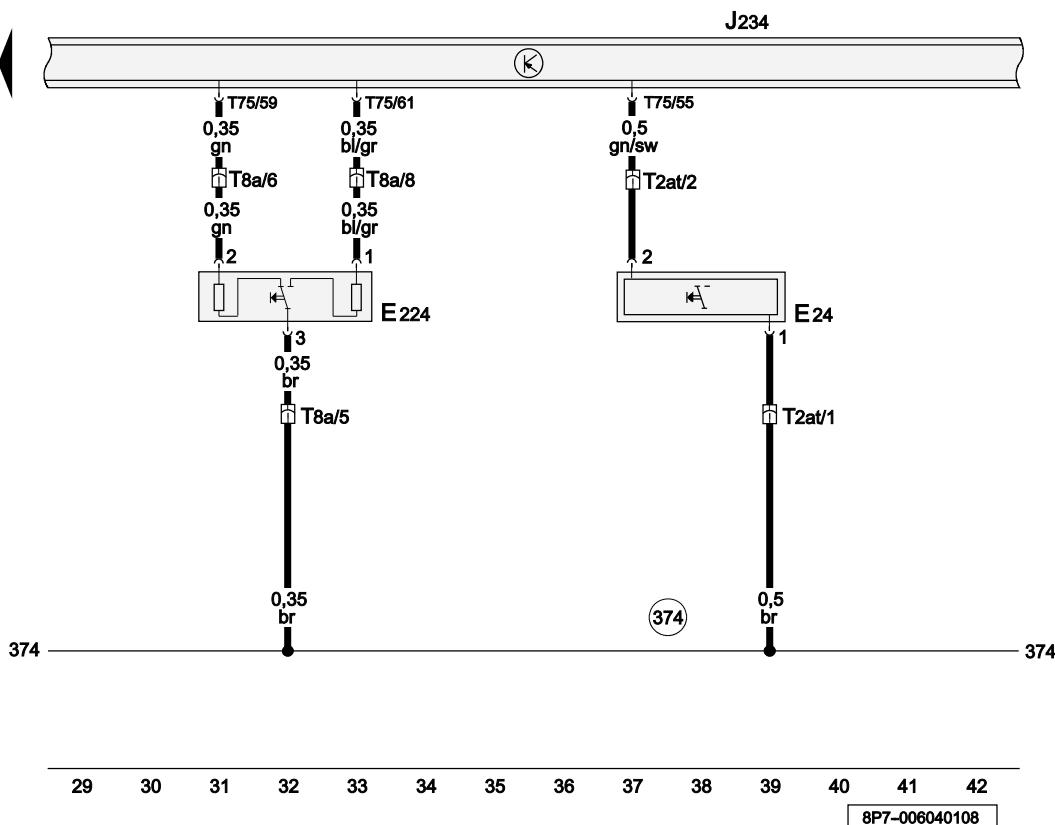
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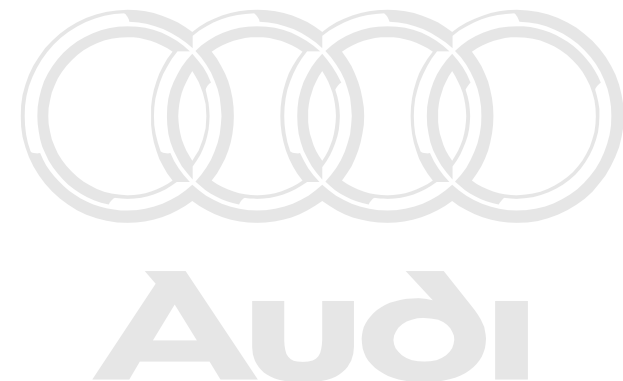


Belt switch, key operated switch to deactivate front passenger side airbag

- E24 Driver side belt switch
- E224 Key operated switch to deactivate front passenger side airbag
- J234 Airbag control unit
- T2at 2-pin connector, black, under driver seat
- T8a 8-pin connector, black, near glove compartment
- T75 75-pin connector, yellow (connector locking green)
- 374 Earth connection 9, in main wiring harness



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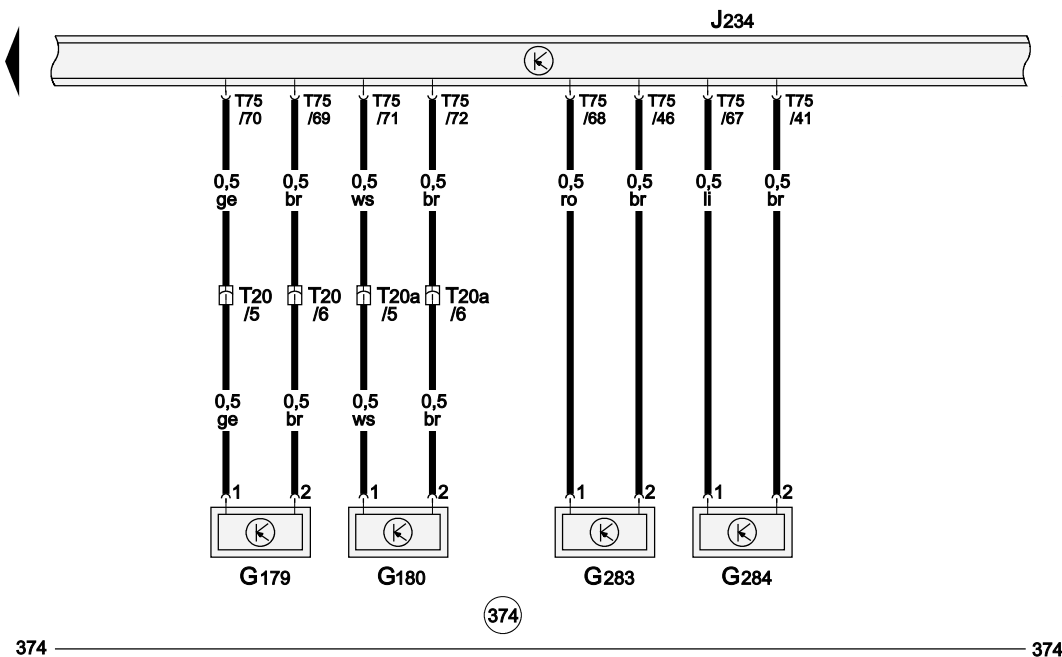
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Crash sensors

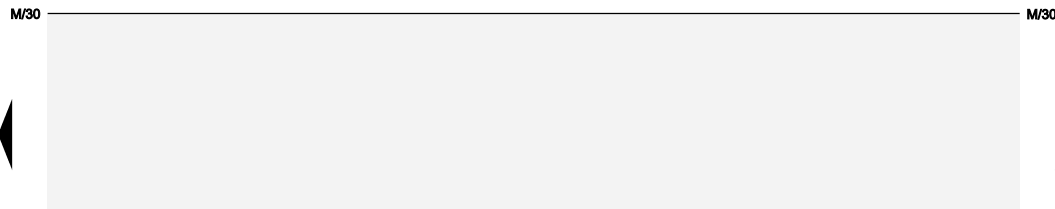
- G179 Side airbag crash sensor on driver side
- G180 Side airbag crash sensor on front passenger side
- G283 Front airbag crash sensor for driver side
- G284 Front airbag crash sensor for front passenger side
- J234 Airbag control unit
- T20 20-pin connector, black, door A-pillar left
- T20a 20-pin connector, black, door A-pillar right
- T75 75-pin connector, yellow (connector locking green)

374 Earth connection 9, in main wiring harness



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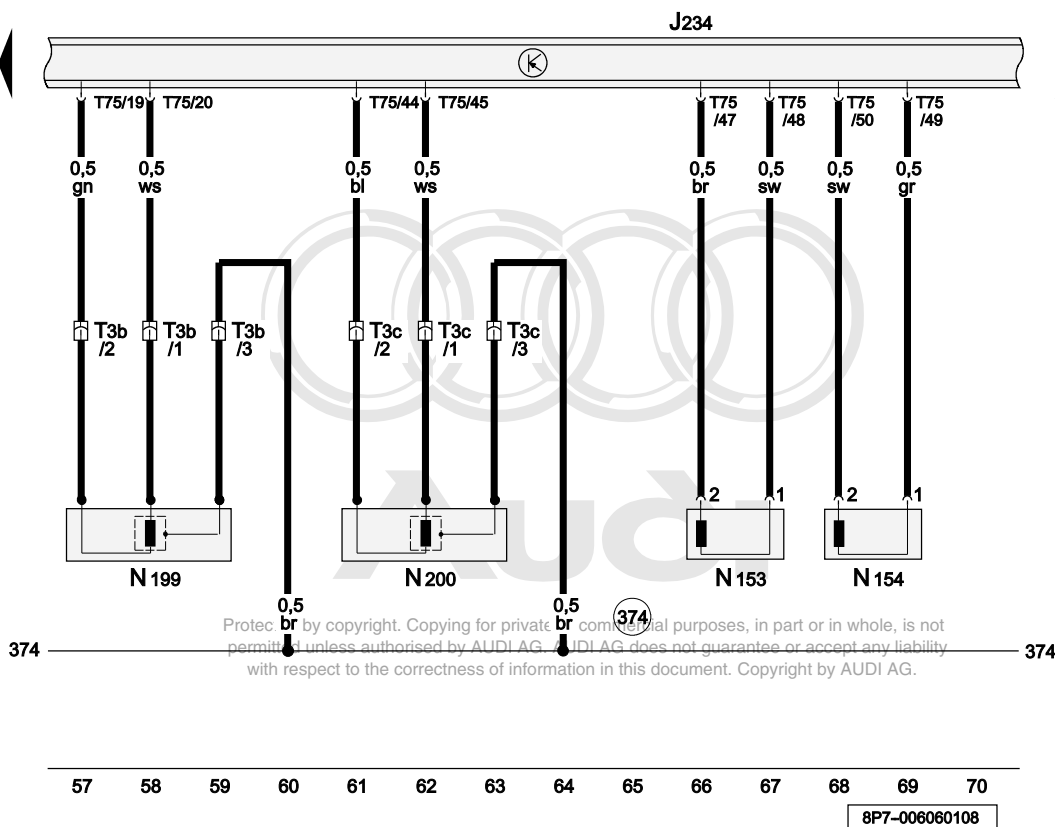


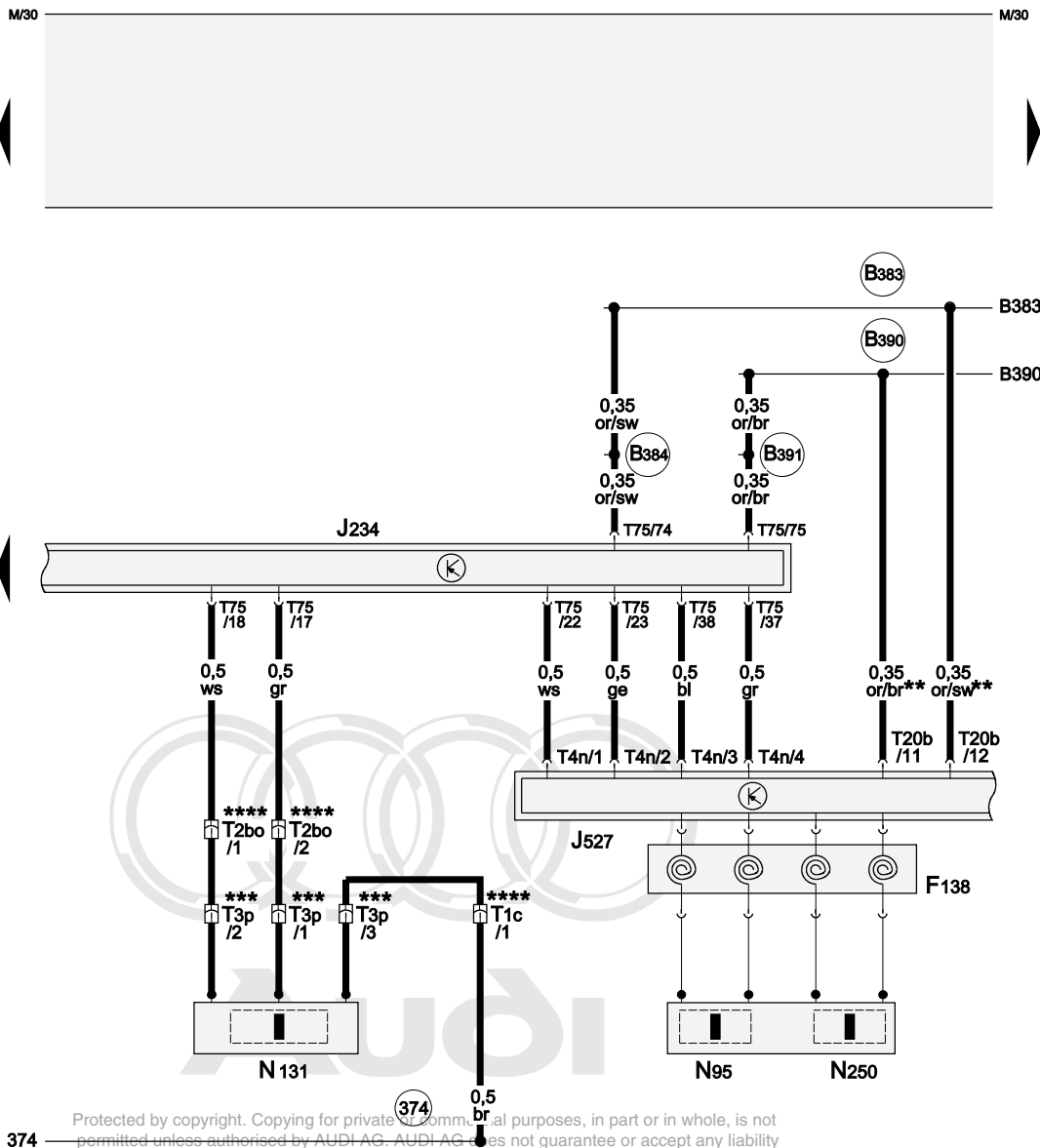


Belt tensioner igniter, side airbag igniter

- J234 Airbag control unit
- N153 Driver seat belt tensioner igniter 1
- N154 Front passenger side seat belt tensioner igniter 1
- N199 Side airbag igniter on driver side
- N200 Side airbag igniter on front passenger side
- T3b 3-pin connector, yellow, near driver seat
- T3c 3-pin connector, yellow, near front passenger seat
- T75 75-pin connector, yellow (connector locking green)

374 Earth connection 9, in main wiring harness





Driver side airbag igniter, front passenger side airbag igniter

- F138 Airbag coil connector and return spring with slip ring
- J234 Airbag control unit
- J527 Steering column electronics control unit
- N95 Driver side airbag igniter
- N131 Front passenger side airbag igniter 1
- N250 Driver side airbag igniter 2
- T1c Single connector
- T2bo 2-pin connector
- T3p 3-pin connector, yellow
- T4n 4-pin connector, yellow (connector B)
- T20b 20-pin connector, black (connector A)
- T75 75-pin connector, yellow (connector locking green)

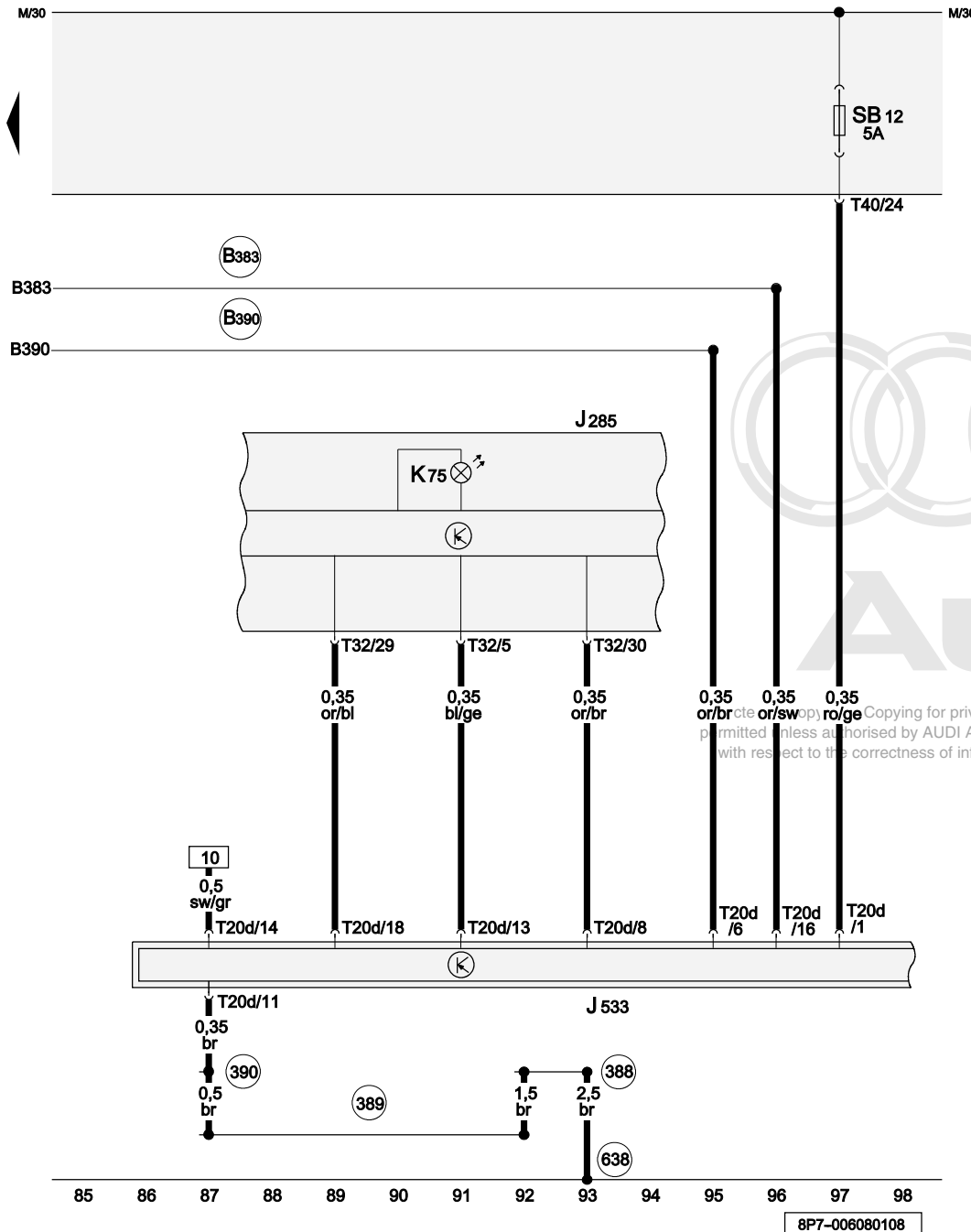
- 374 Earth connection 9, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness
- ** for models with CAN bus drive train only
- *** is dropped from March 2009
- **** applicable from March 2009

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71 72 73 74 75 76 77 78 79 80 81 82 83 84

8P7-006070108



Control unit in dash panel insert, data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K75 Airbag warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, right A-pillar
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness

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8P7-006080108



Direct shift gearbox (02E)

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

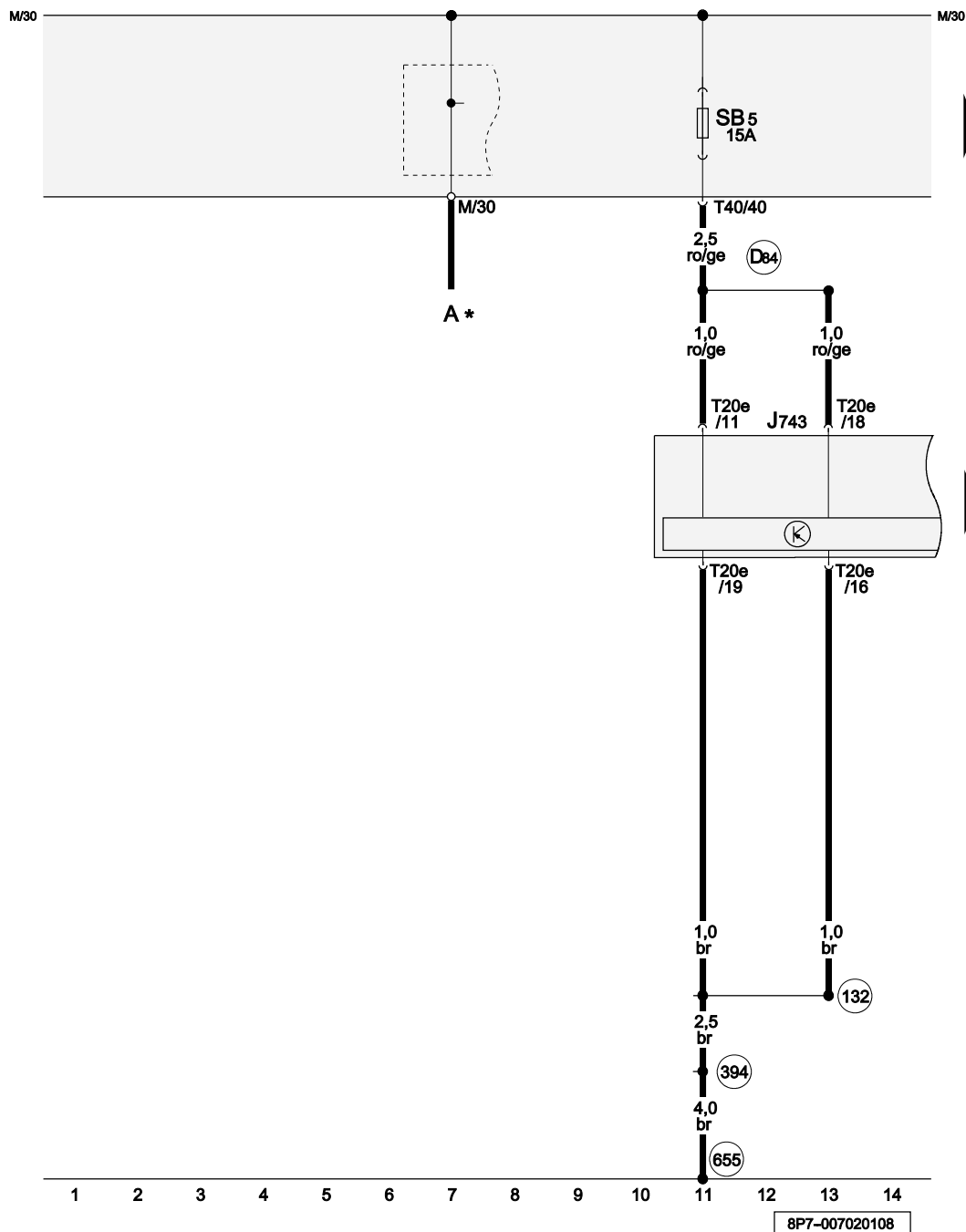
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Electronics box supply, fuse on fuse holder

- | | |
|------|---|
| A | Battery |
| J743 | Mechatronic unit for direct shift gearbox |
| SB5 | Fuse 5 on fuse holder B |
| T20e | 20-pin connector, black (connector A) |
| T40 | 40-pin connector, black, on electronics box in engine compartment (connector J) |

- (132) Earth connection 3, in engine compartment wiring harness

- (655) Earth point, on left headlight

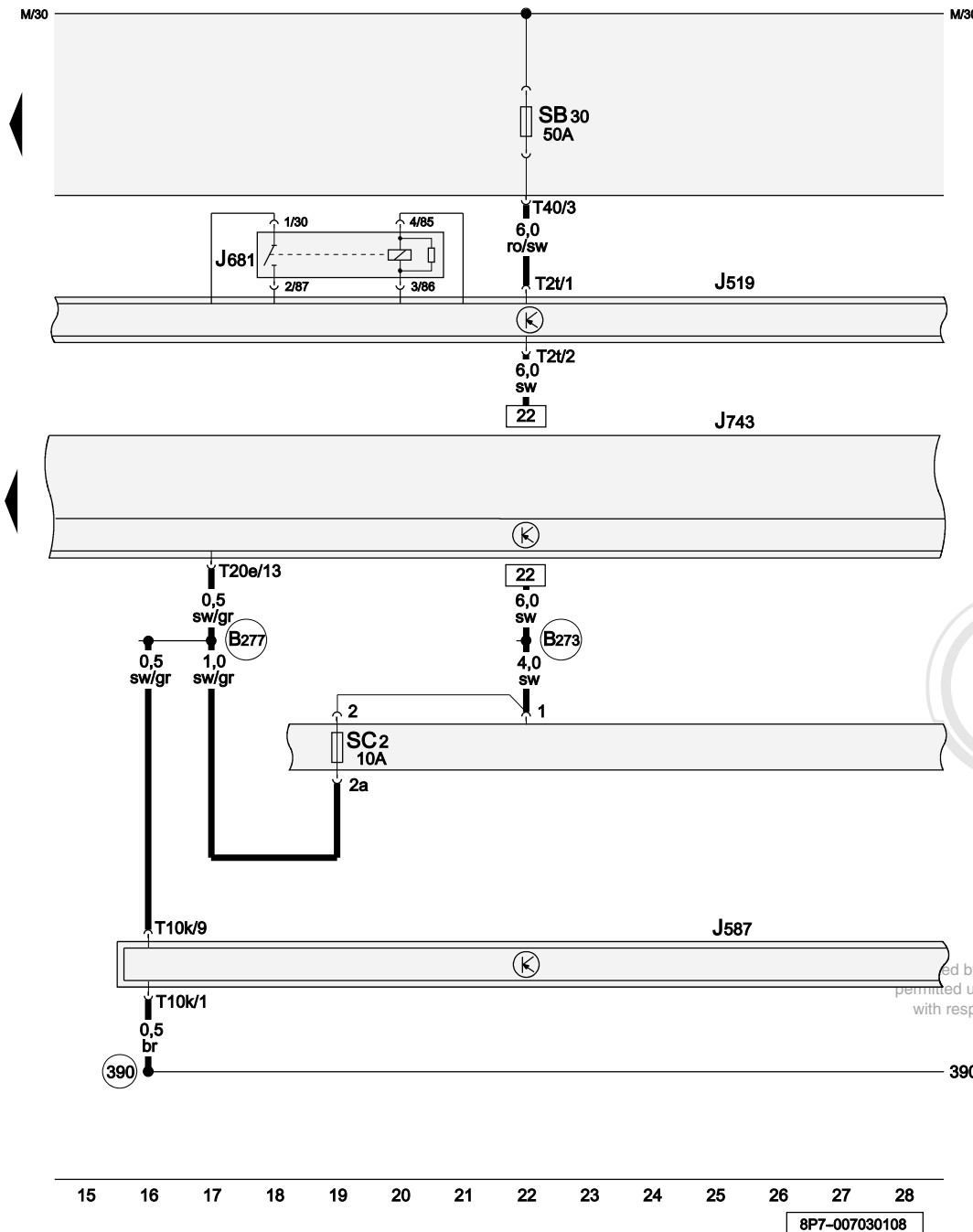
- (394) Earth connection 29, in main wiring harness

- D84 Connection (automatic gearbox), in engine compartment wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

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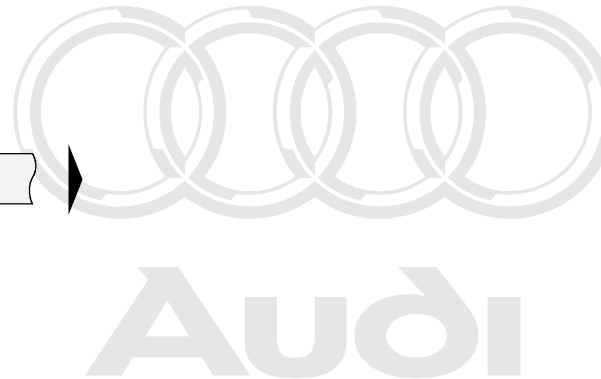
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br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
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Voltage supply, terminal 15, selector lever sensors control unit, mechatronic unit for direct shift gearbox

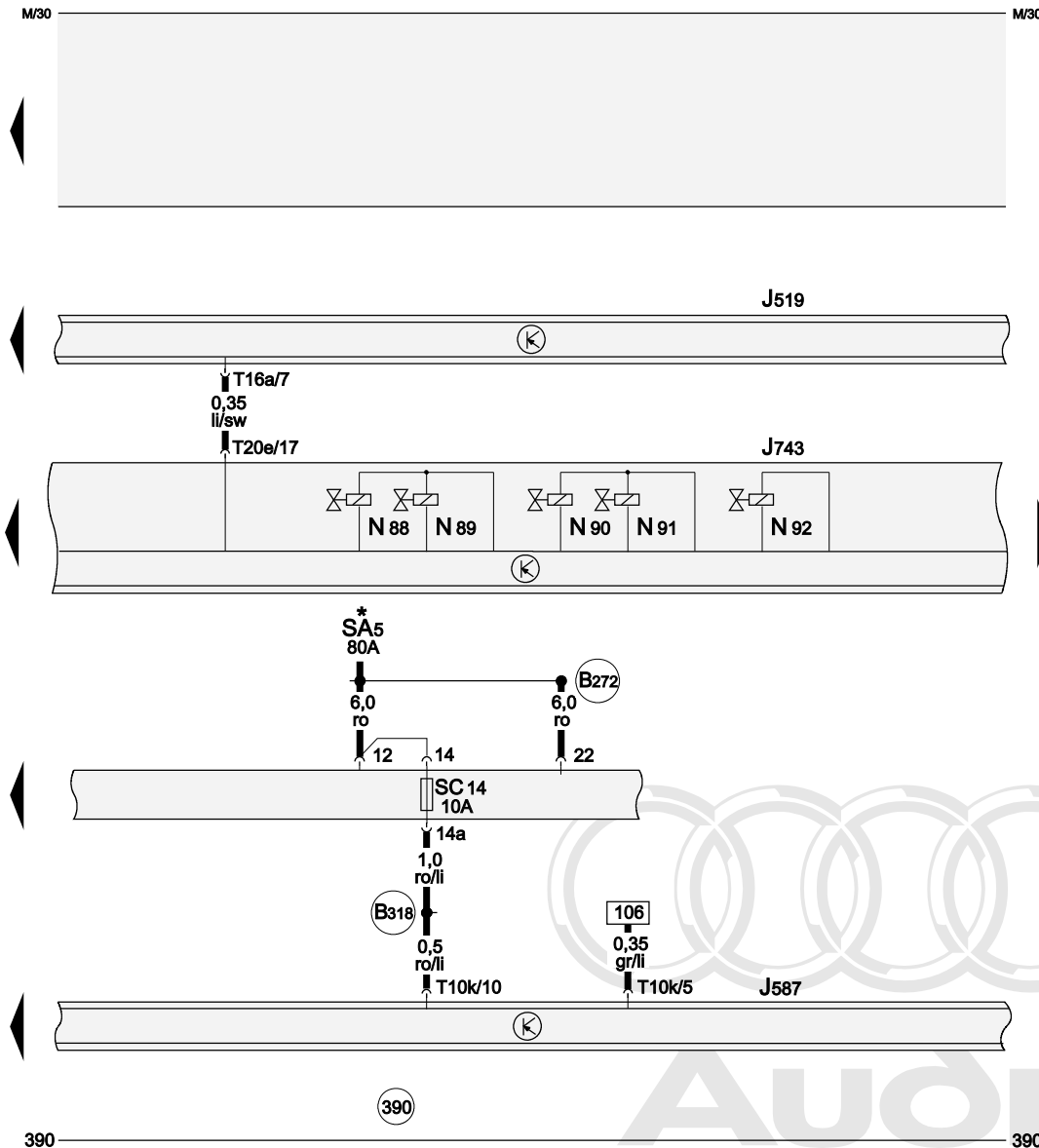
- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J681 Terminal 15 voltage supply relay 2
- J743 Mechatronic unit for direct shift gearbox
- SB30 Fuse 30 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T10k 10-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 390 Earth connection 25, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness



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Solenoid valves, voltage supply, terminal 30, selector lever sensors control unit

- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- N88 Solenoid valve 1
- N89 Solenoid valve 2
- N90 Solenoid valve 3
- N91 Solenoid valve 4
- N92 Solenoid valve 5
- SA5 Fuse 5 on fuse holder A
- SC14 Fuse 14 on fuse holder C
- T10k 10-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T16a 16-pin connector, black (connector E)

390 Earth connection 25, in main wiring harness

B272 Positive connection (30), in main wiring harness

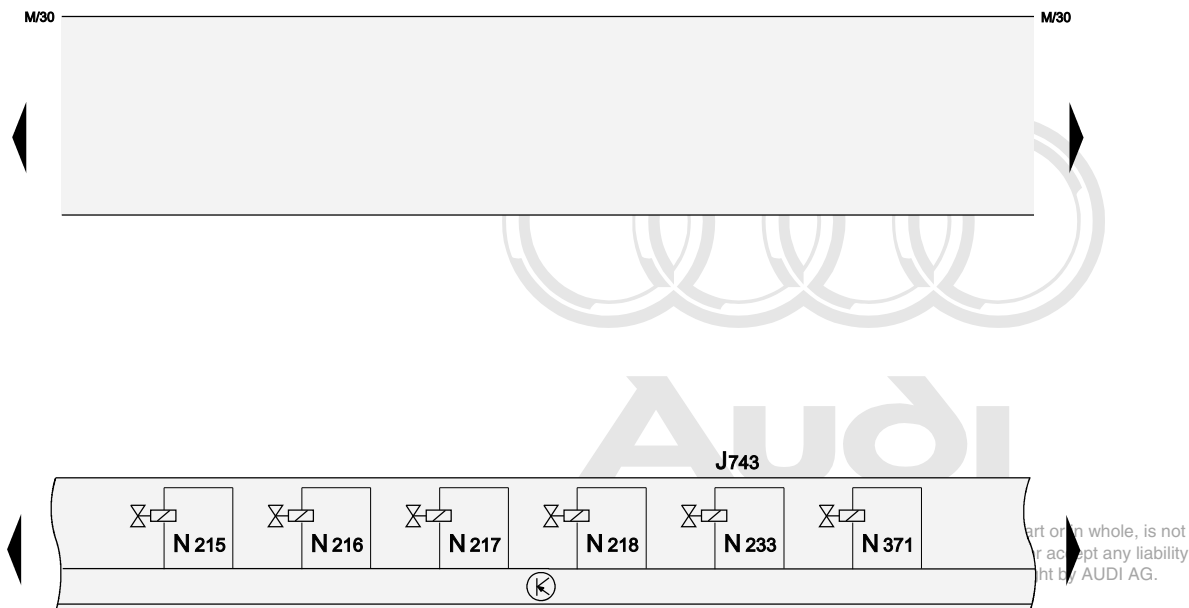
B318 Positive connection 4 (30a), in main wiring harness

* => applicable Current Flow Diagram for models with battery in engine compartment

- ws = white
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- bl = blue
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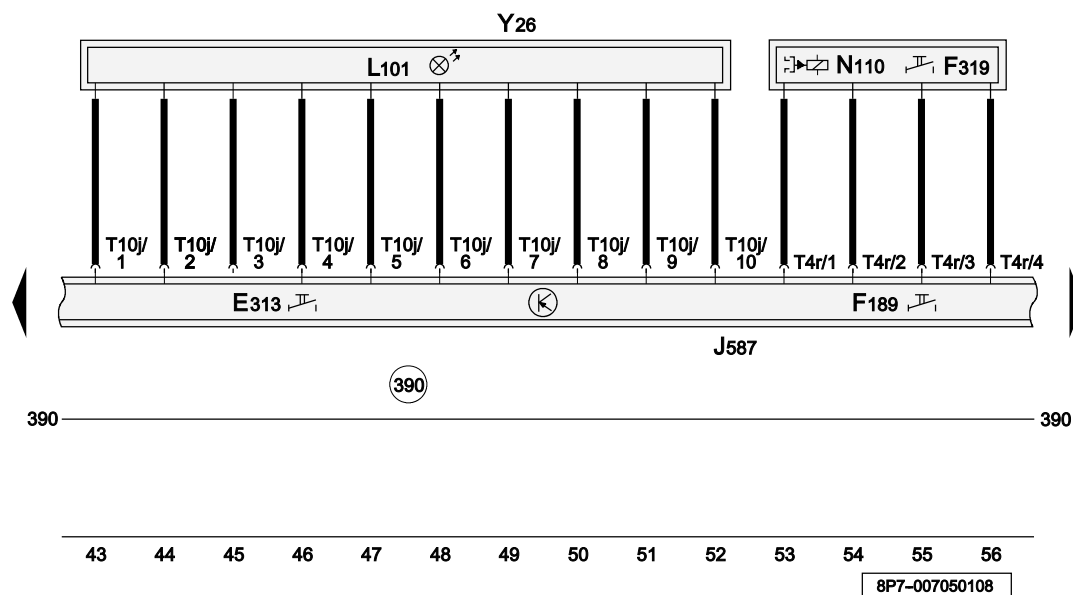
8P7-007040108



Selector lever position display, pressure regulating valves, selector lever locked in position P switch

- E313 Selector lever
- F189 Tiptronic switch
- F319 Selector lever locked in position P switch
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- L101 Selector lever display illumination bulb
- N110 Selector lever lock solenoid
- N215 Automatic gearbox pressure regulating valve 1
- N216 Automatic gearbox pressure regulating valve 2
- N217 Automatic gearbox pressure regulating valve 3
- N218 Automatic gearbox pressure regulating valve 4
- N233 Automatic gearbox pressure regulating valve 5
- N371 Automatic gearbox pressure regulating valve 6
- T4r 4-pin connector, on selector lever
- T10j 10-pin connector, black, on selector lever
- Y26 Selector lever position display

390 Earth connection 25, in main wiring harness



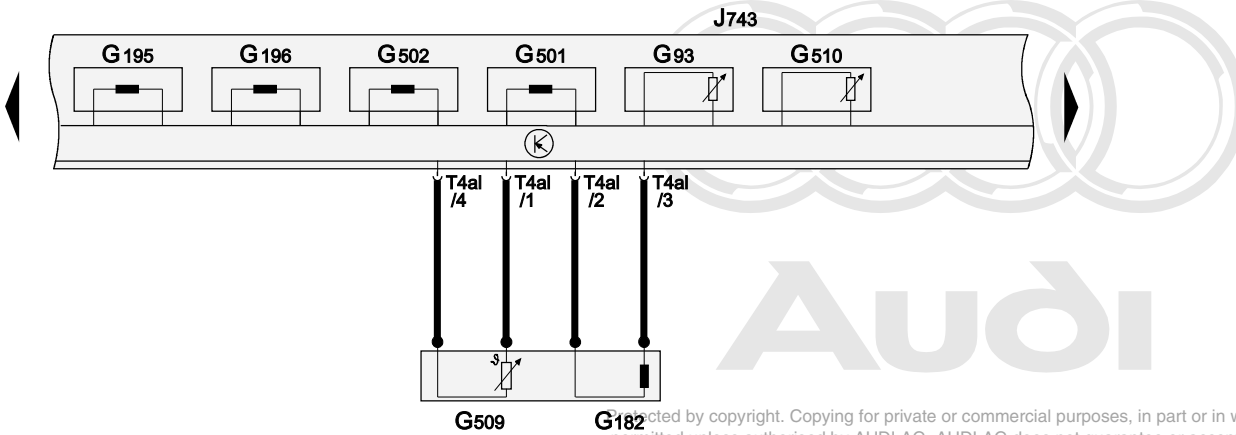
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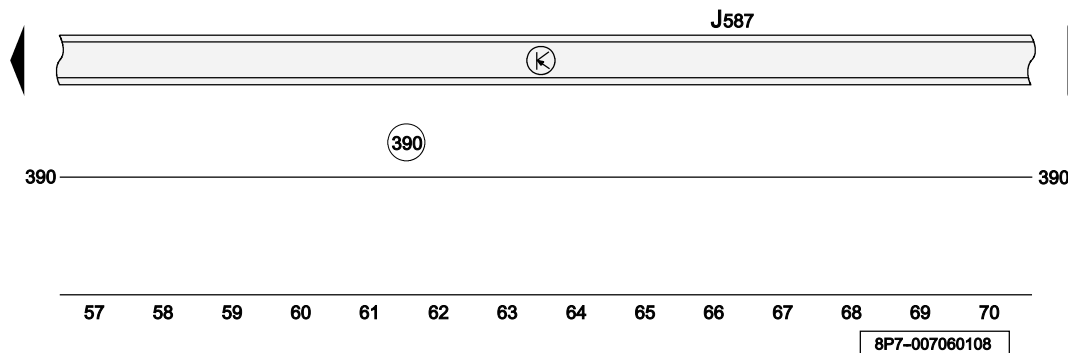
Gearbox output speed sender, temperature sensor

- G93 Gearbox oil temperature sender
- G182 Gearbox input speed sender
- G195 Gearbox output speed sender
- G196 Gearbox output speed sender 2
- G501 Input shaft speed sender 1
- G502 Input shaft speed sender 2
- G509 Clutch temperature sender
- G510 Temperature sender in control unit
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- T4al 4-pin connector

390 Earth connection 25, in main wiring harness



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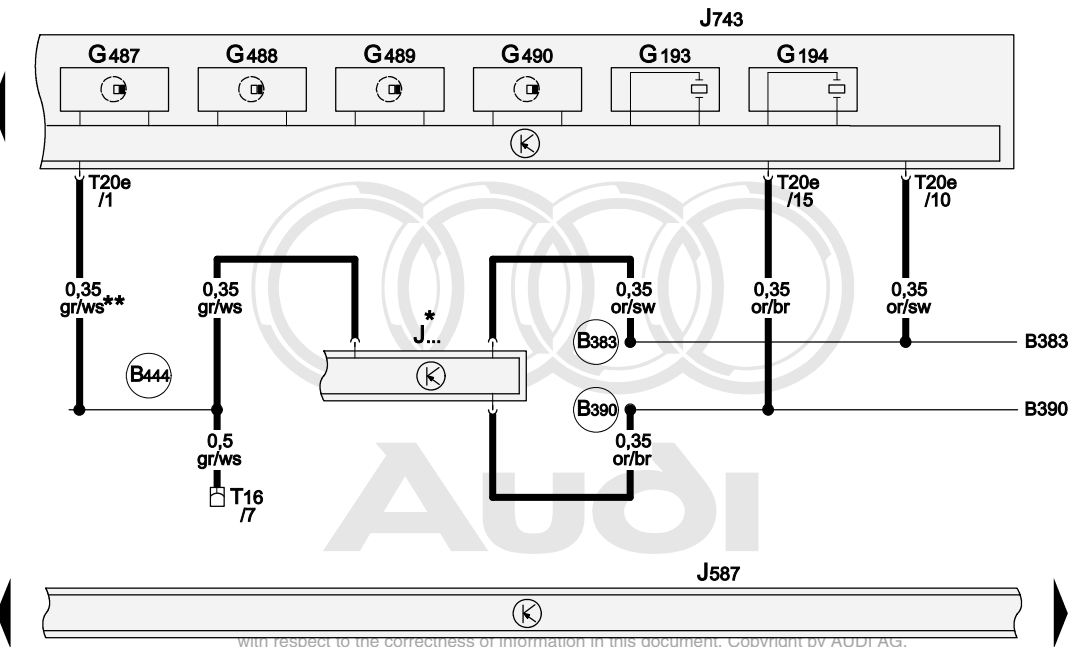


Drive train CAN bus, hydraulic pressure sender, gear selector movement sensor

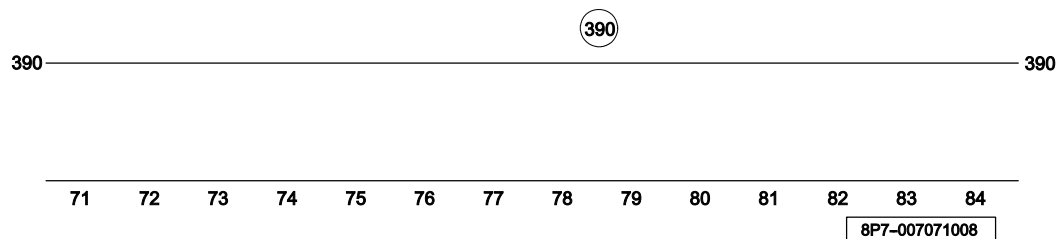
- G193 Automatic gearbox hydraulic pressure sender 1
- G194 Automatic gearbox hydraulic pressure sender 2
- G487 Gear selector movement sensor 1
- G488 Gear selector movement sensor 2
- G489 Gear selector movement sensor 3
- G490 Gear selector movement sensor 4
- J... Engine control units
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20e 20-pin connector, black (connector A)

- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness

* ⇒ applicable engine Current Flow Diagram
 ** for models with diagnosis connection only



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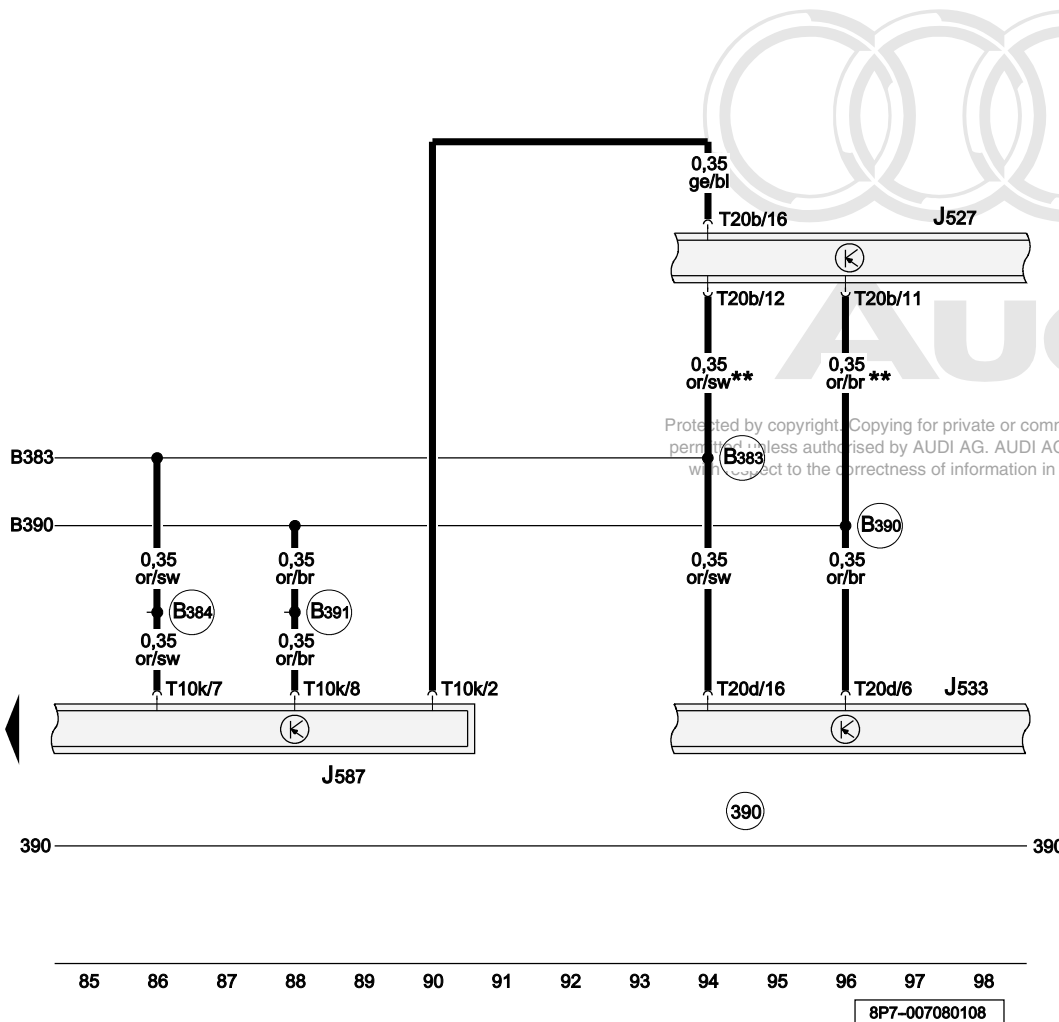




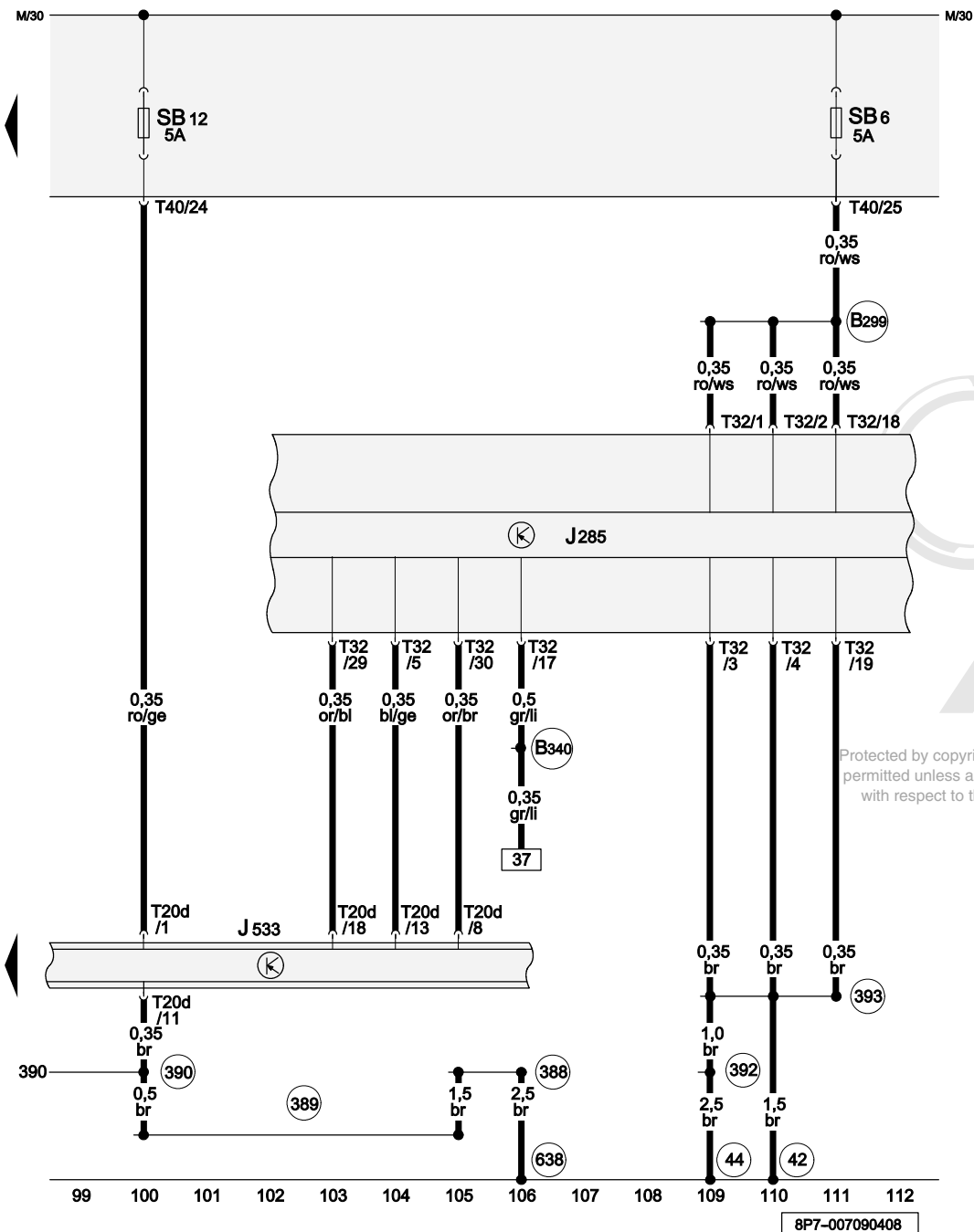
Drive train CAN bus

- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- J587 Selector lever sensors control unit
- T10k 10-pin connector, black (connector A)
- T20b 20-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)

- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness
- ** for models with CAN bus drive train only



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Data bus diagnostic interface, control unit in dash panel insert

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- 638 Earth point, right A-pillar
- B299 Positive connection 3 (30), in main wiring harness
- B340 Connection 1 (58d), in main wiring harness

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Trailer operation

from March 2008

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

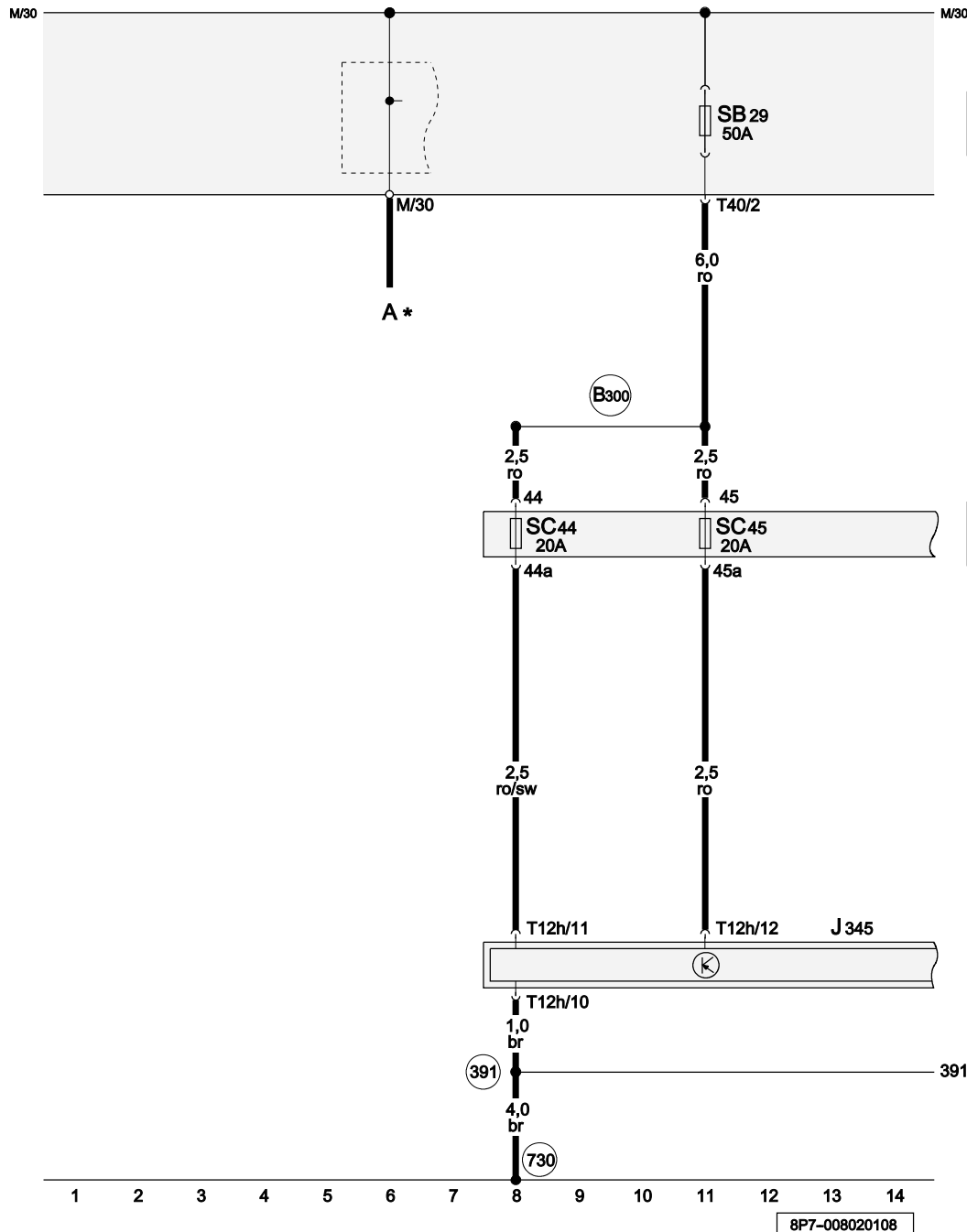
- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses, trailer detector control unit

- A Battery
- J345 Trailer detector control unit
- SB29 Fuse 29 on fuse holder B
- SC44 Fuse 44 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- T12h 12-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

391 Earth connection 26, in main wiring harness

730 Earth point 1 on rear right wheel housing

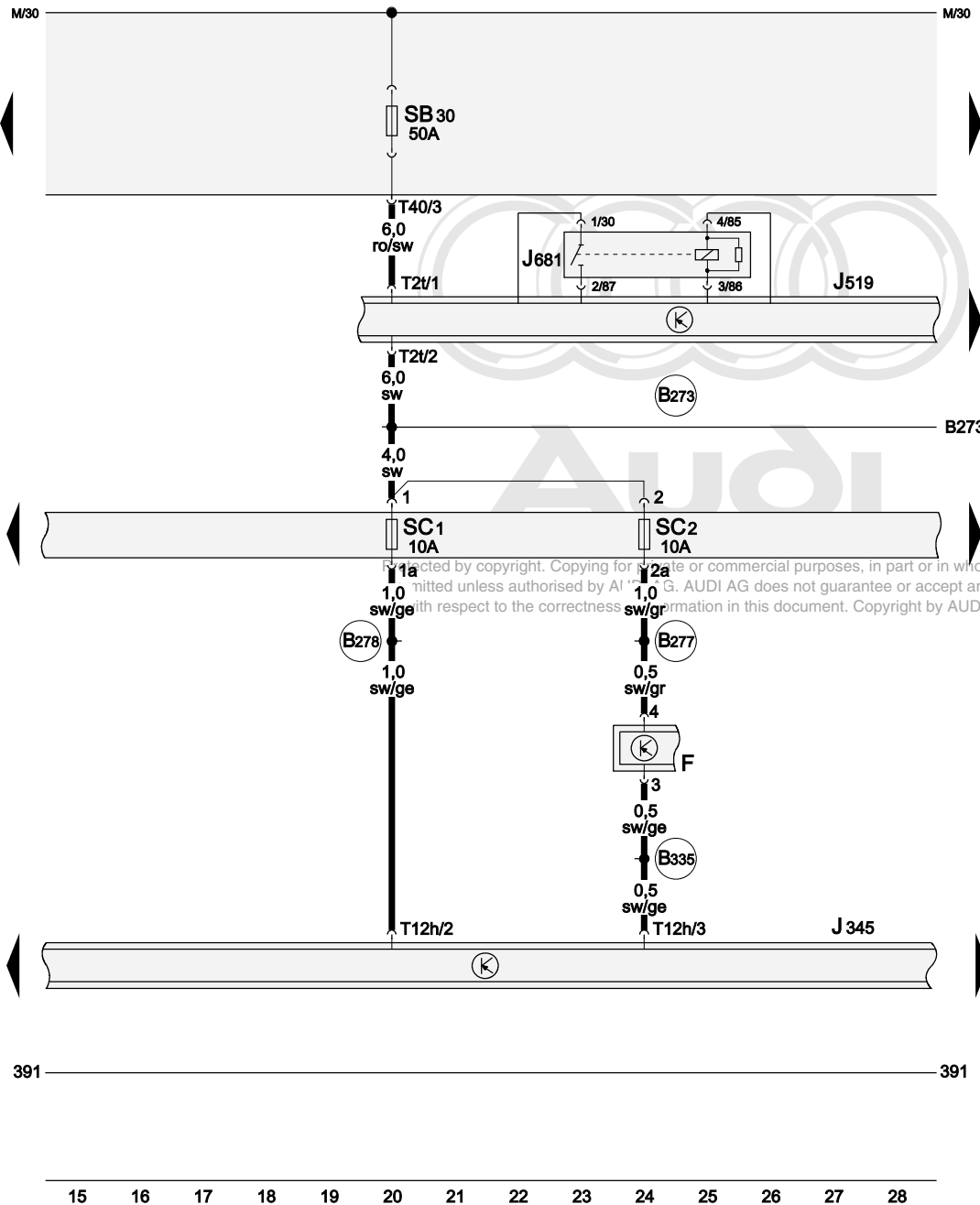
B300 Positive connection 4 (30), in main wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

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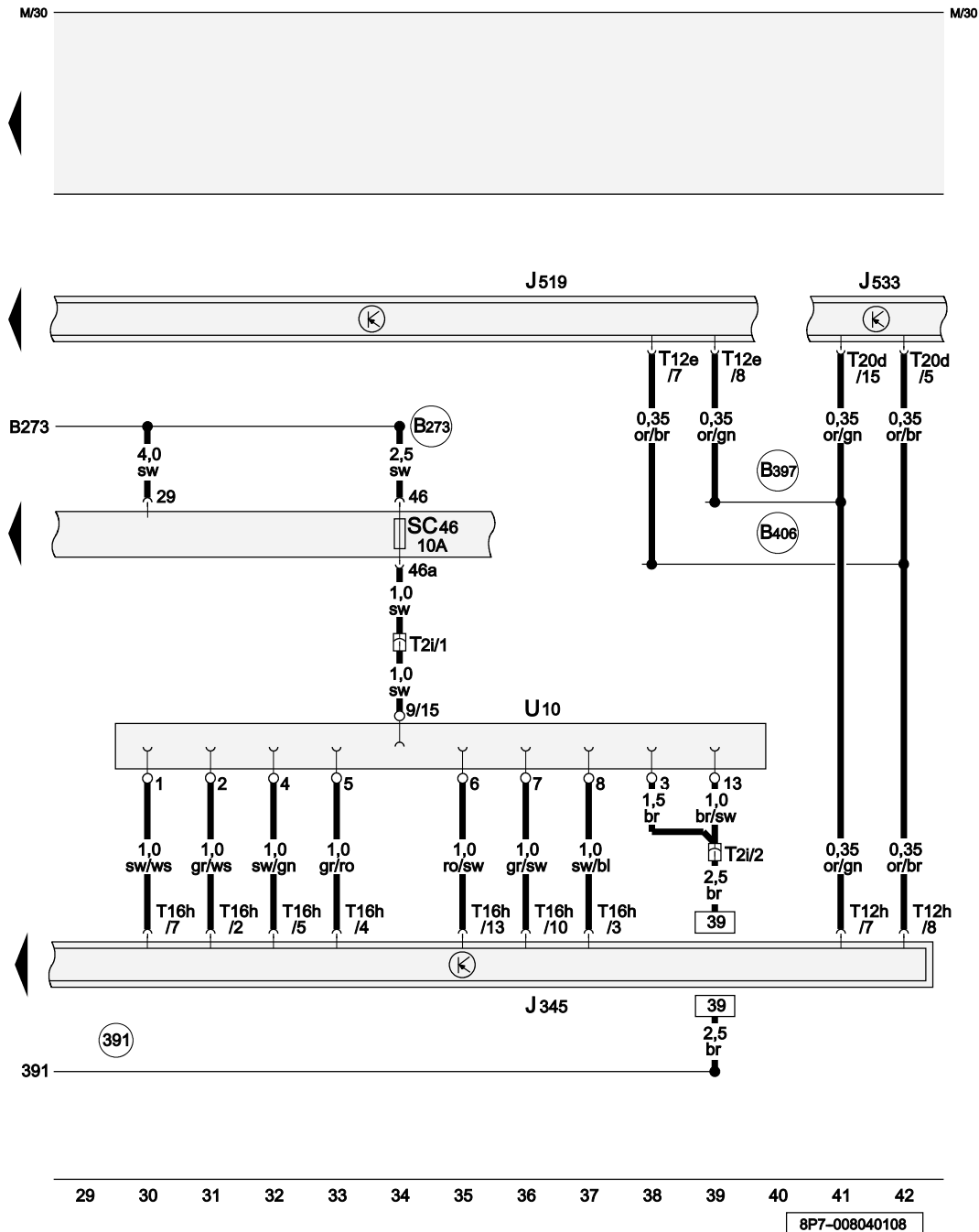
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Fuses, trailer detector control unit

- F Brake light switch
- J345 Trailer detector control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T12h 12-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B335 Connection 1 (54), in main wiring harness



Trailer detector control unit, trailer socket

- J345 Trailer detector control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- SC46 Fuse 46 on fuse holder C
- T2i 2-pin connector, black, near trailer socket
- T12e 12-pin connector, black (connector G)
- T12h 12-pin connector, red (connector B)
- T16h 16-pin connector, black (connector A, connector locking purple)
- T20d 20-pin connector, black (connector A)
- U10 Trailer socket
- 391 Earth connection 26, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

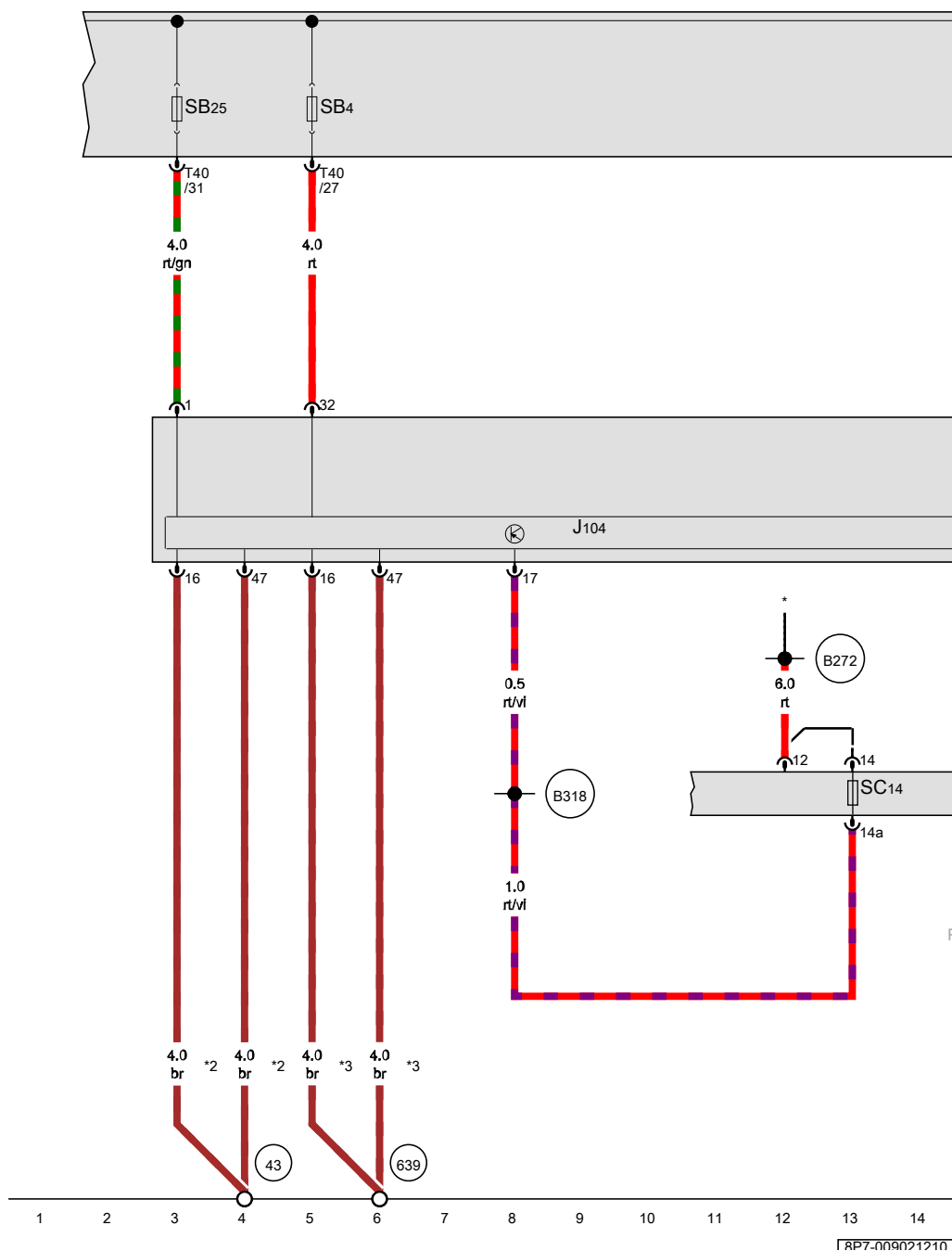
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Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and hydraulic brake servo (HBS)

From March 2008



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ABS control unit

- J104 ABS control unit
- SB4 Fuse 4 on fuse holder B
- SC14 Fuse 14 on fuse holder C
- SB25 Fuse 25 on fuse holder B
- T40 40-pin connector

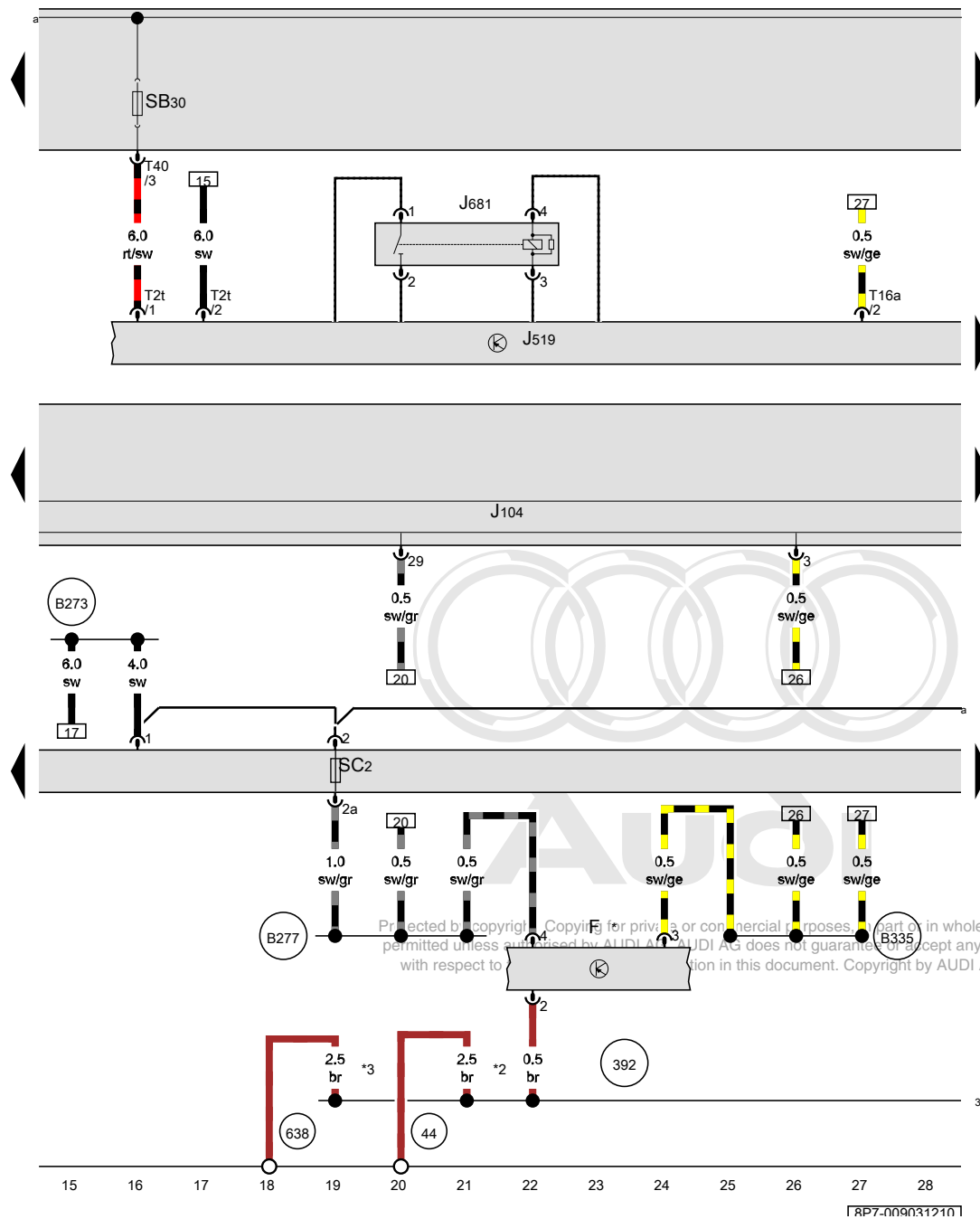
- 43 Earth point, lower part of right A-pillar
- 639 Earth point, left A-pillar
- B272 Positive connection (30), in main wiring harness
- B318 Positive connection 4 (30a) in main wiring harness

- * see applicable current flow diagram for battery in engine compartment
- *2 Only left-hand drive models
- *3 Only right-hand drive models



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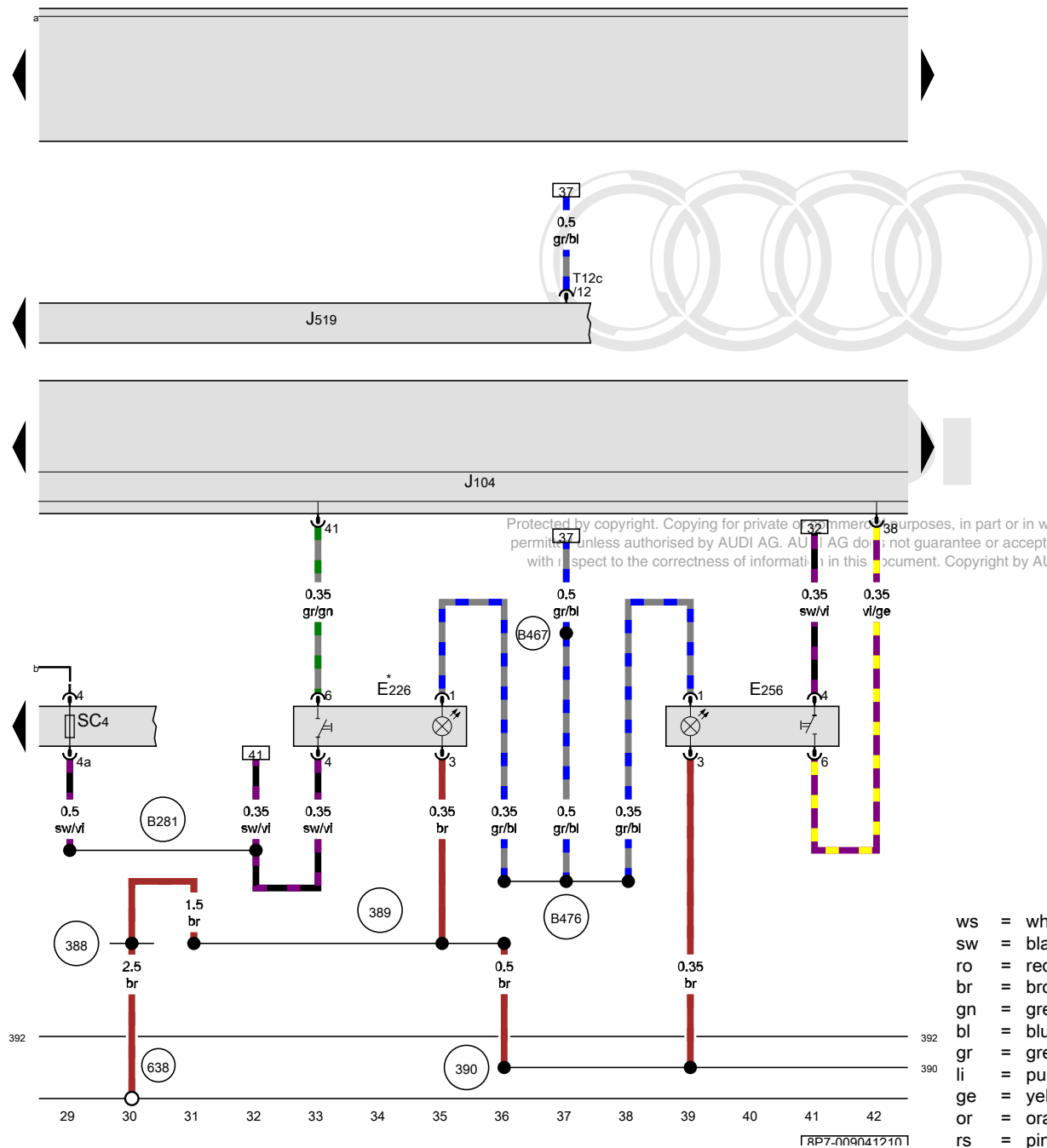
Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16a 16-pin connector
- T40 40-pin connector

- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

- * see applicable current flow diagram for engine
- *2 Only left-hand drive models
- *3 Only right-hand drive models

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rs = pink



Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

- E226 Tyre pressure monitor button
- E256 TCS and ESP button
- J104 ABS control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T12c 12-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

* If fitted



ABS control unit

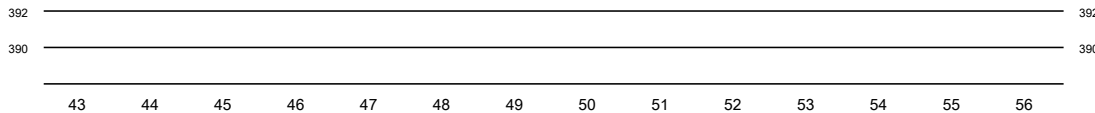
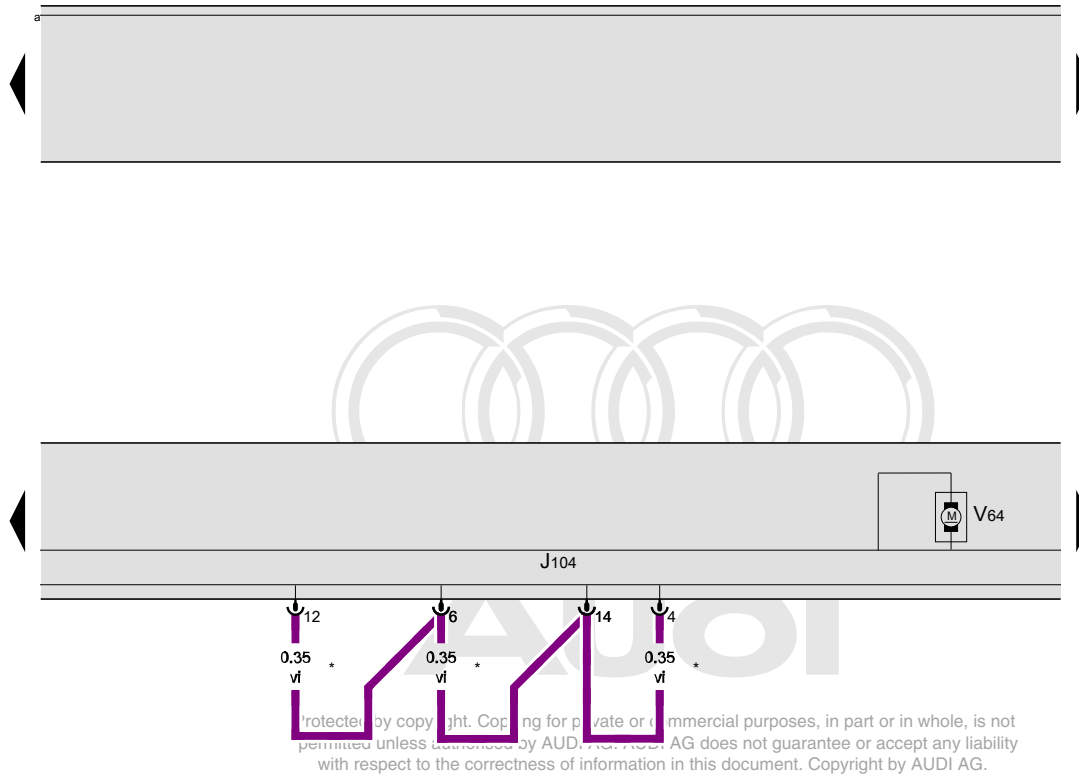
J104 ABS control unit

V64 ABS hydraulic pump

390 Earth connection 25, in main wiring harness

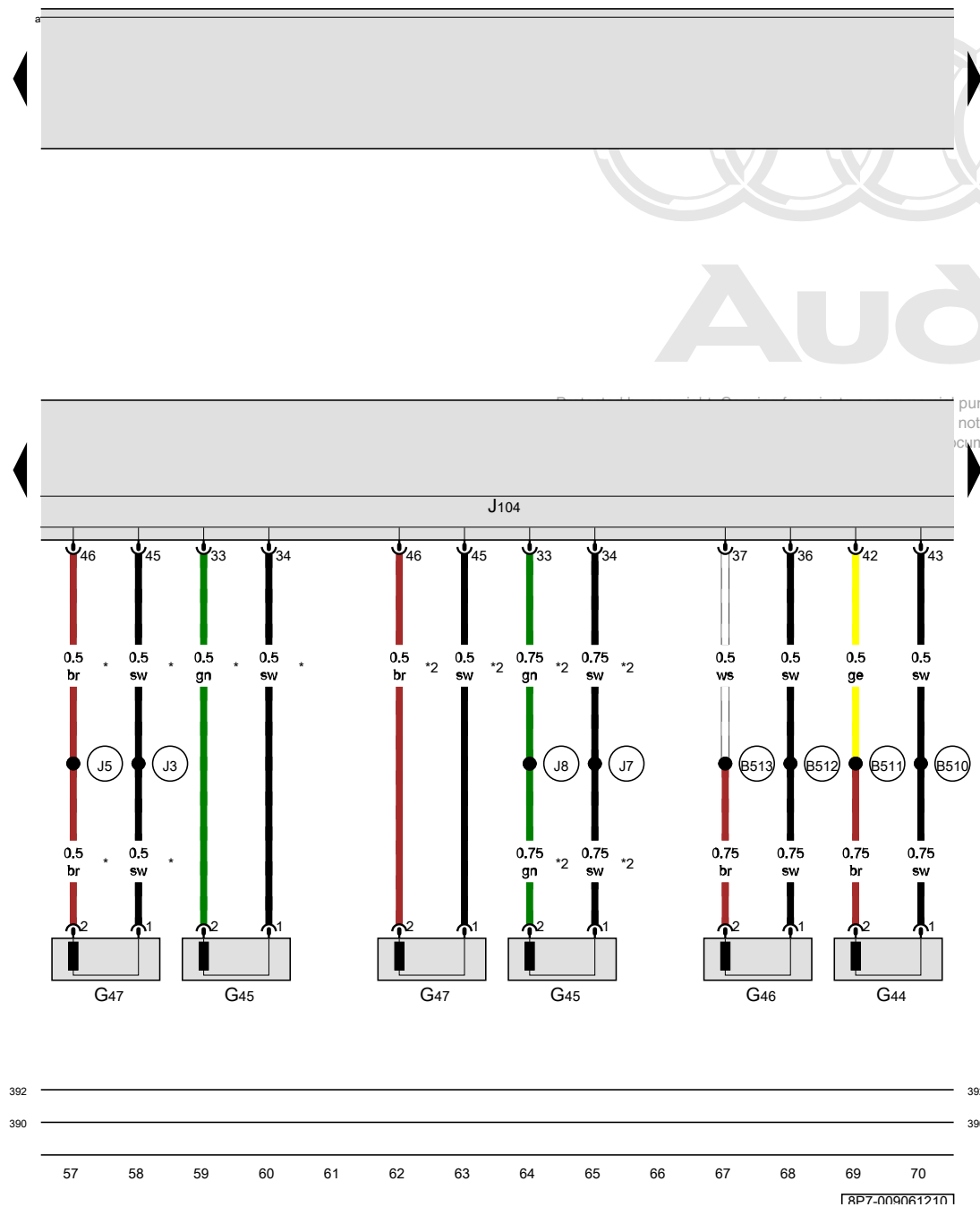
392 Earth connection 27, in main wiring harness

* According to equipment



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

18P7-0090512101



Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B510 Connection 1 (rear right speed sensor), in interior wiring harness

B511 Connection 2 (rear right speed sensor), in interior wiring harness

B512 Connection 1 (rear left speed sensor), in interior wiring harness

B513 Connection 2 (rear left speed sensor), in interior wiring harness

J3 Connection 1, in ABS wiring harness

J5 Connection 2, in ABS wiring harness

J7 Connection 3, in ABS wiring harness

J8 Connection 4, in ABS wiring harness

* Only left-hand drive models

*2 Only right-hand drive models

ESP sensor unit, Brake servo vacuum sender, ABS control unit, ABS hydraulic unit

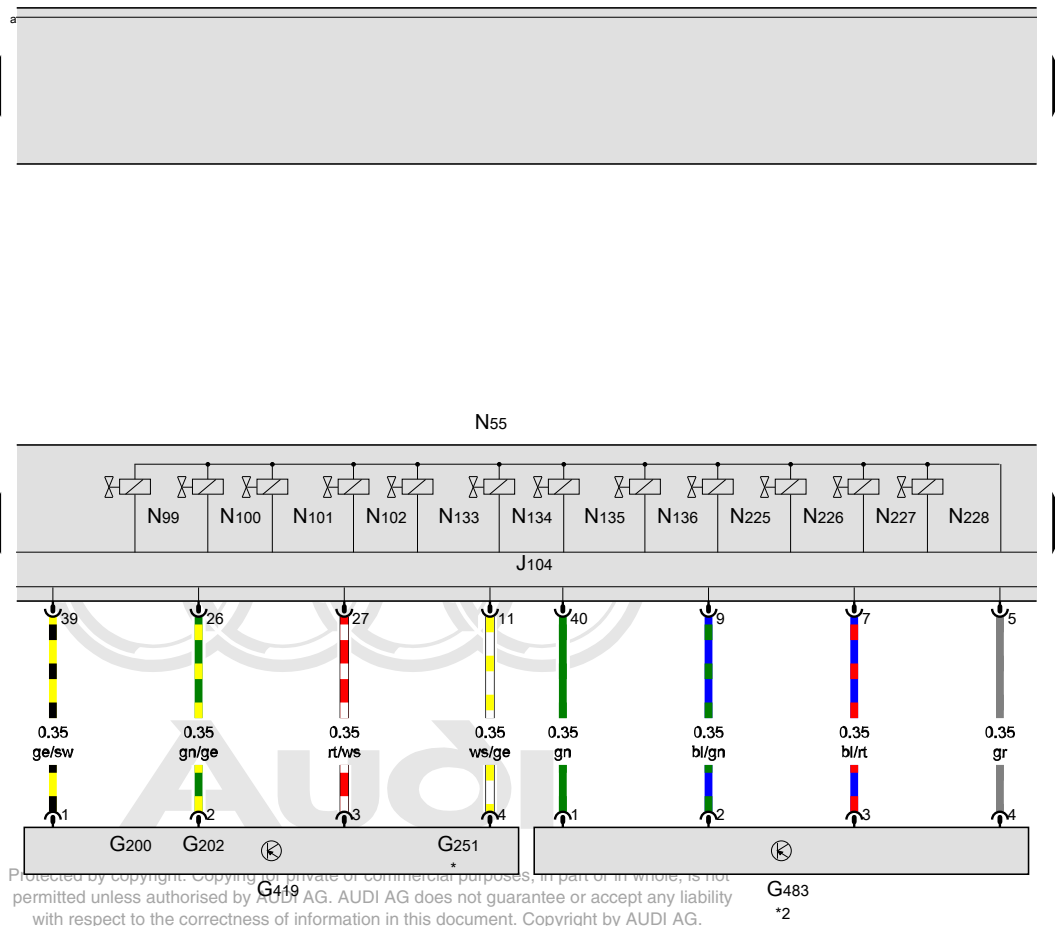
- G200 Lateral acceleration sender
- G202 Yaw rate sender
- G251 Longitudinal acceleration sender
- G419 ESP sensor unit
- G483 Brake servo vacuum sender
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

390 Earth connection 25, in main wiring harness

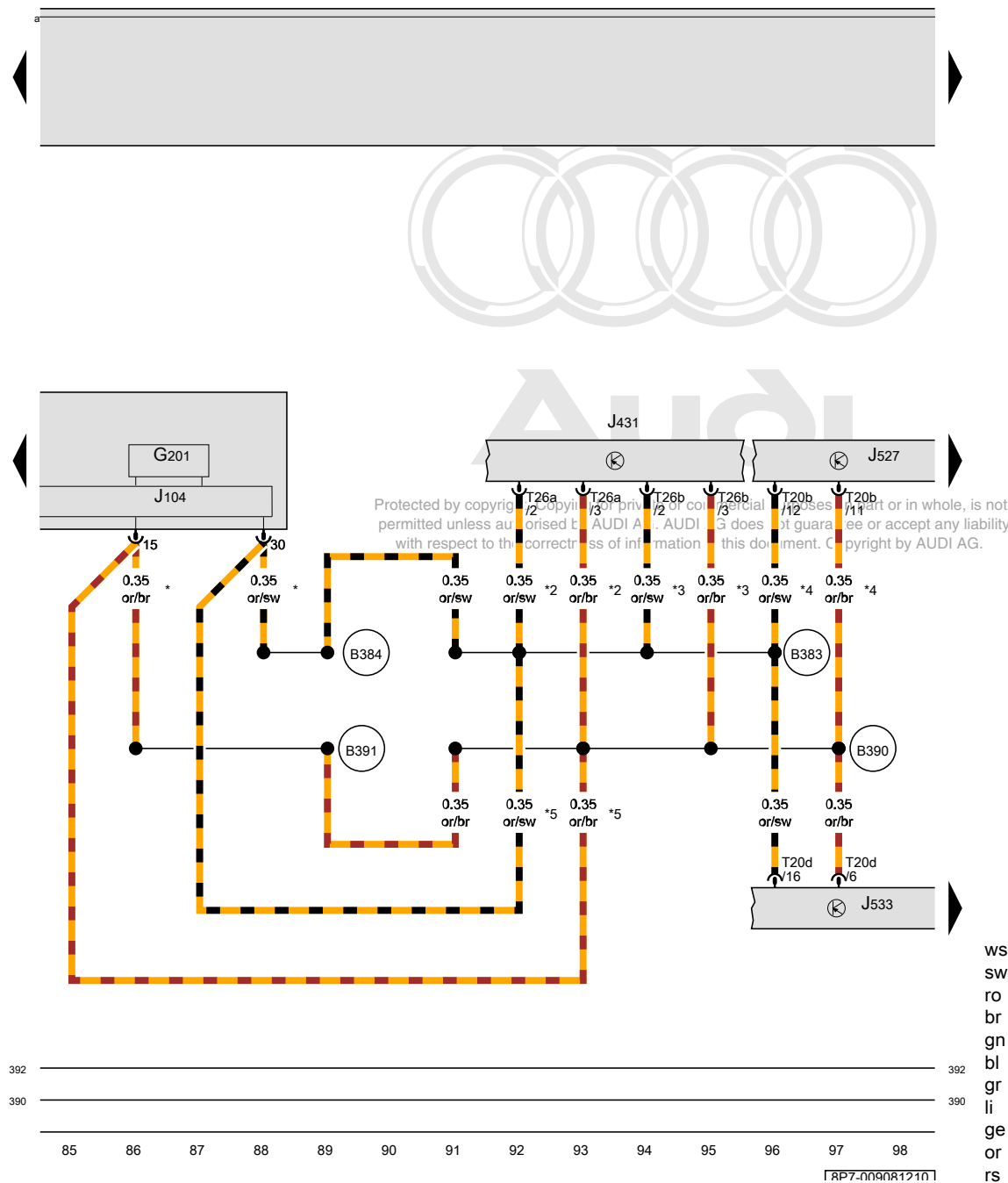
392 Earth connection 27, in main wiring harness

* Only models with all-wheel drive

*2 If fitted



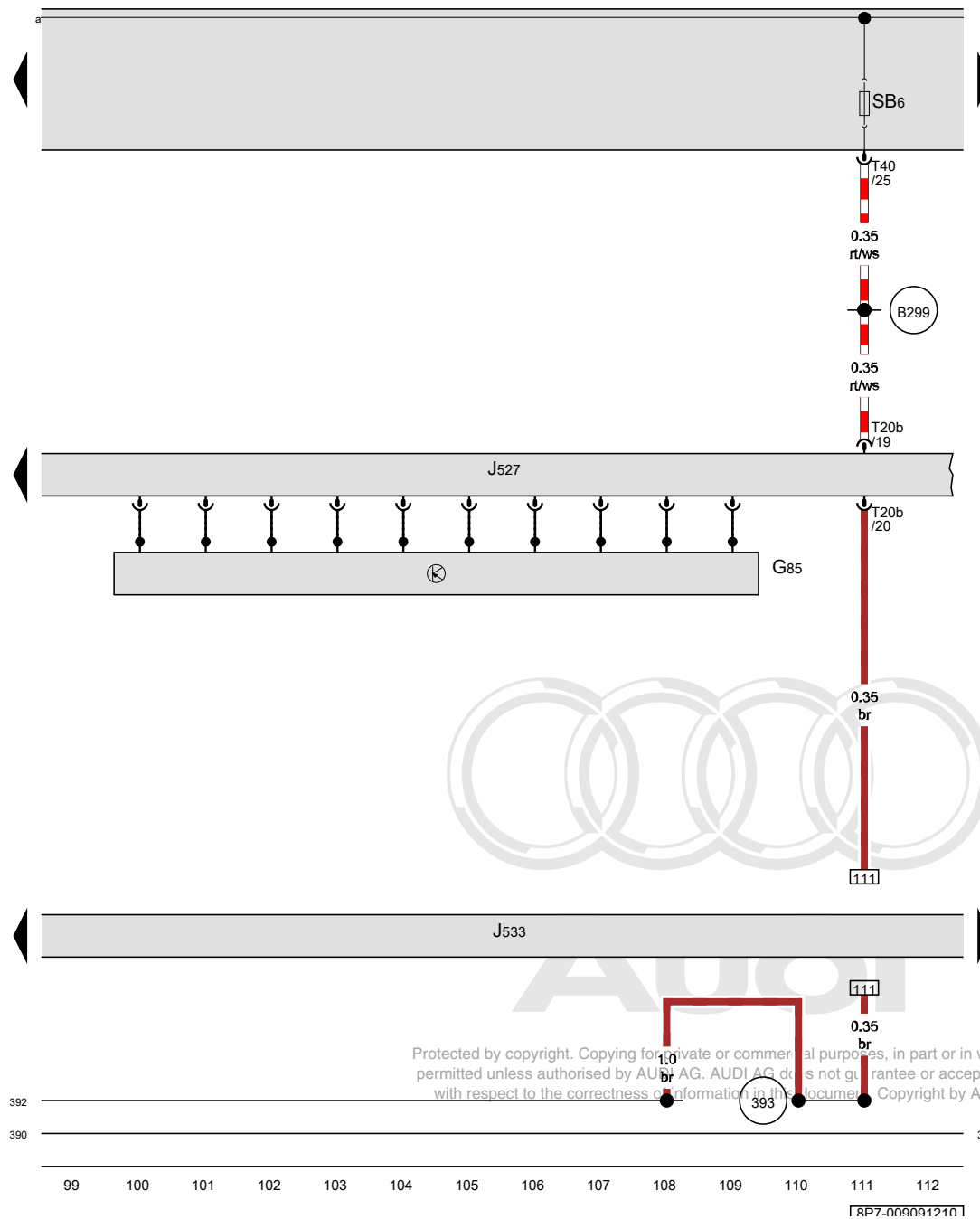
ws = white
 sw = black
 ro = red
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 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink



Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

- G201 Brake pressure sender 1
- J104 ABS control unit
- J431 Headlight range control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector

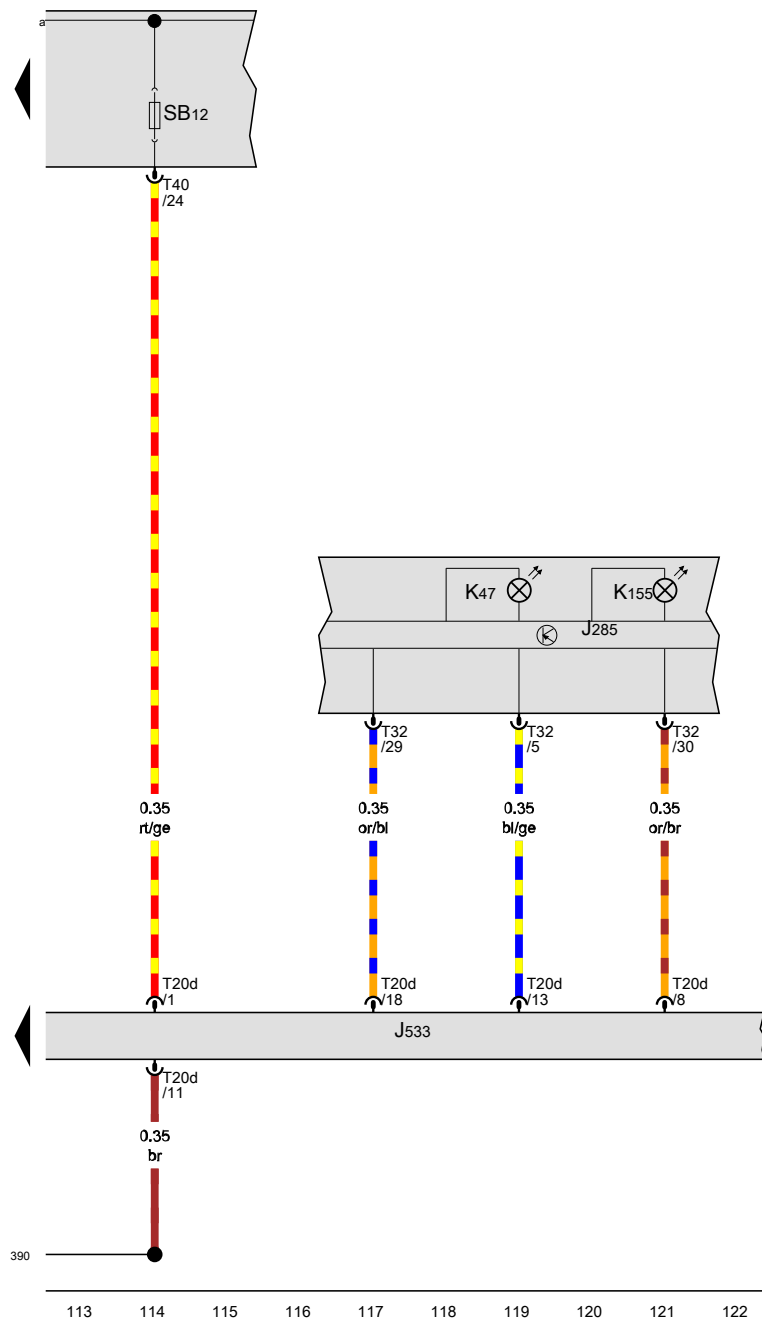
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- * Only left-hand drive models
- *2 According to equipment
- *3 Only models with dynamic cornering light
- *4 If fitted
- *5 Only right-hand drive models



Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

- G85 Steering angle sender
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B299 Positive connection 3 (30), in main wiring harness

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ro = red
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gn = green
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li = purple
ge = yellow
or = orange
rs = pink



Control unit in dash panel insert, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K47 ABS warning lamp
- K155 ESP and TCS warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

390 Earth connection 25, in main wiring harness

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- or = orange
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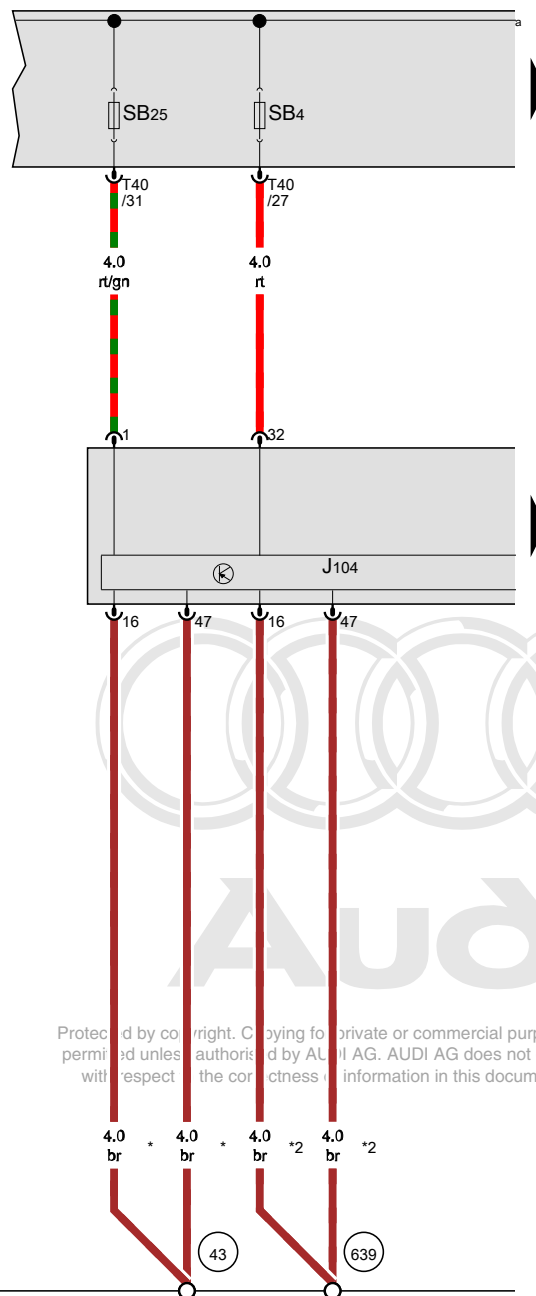
18P7-0091012101

Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and with no hydraulic brake servo (HBS)

From March 2008



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ABS control unit

J104 ABS control unit
 SB4 Fuse 4 on fuse holder B
 SB25 Fuse 25 on fuse holder B
 T40 40-pin connector

43 Earth point, lower part of right A-pillar

639 Earth point, left A-pillar

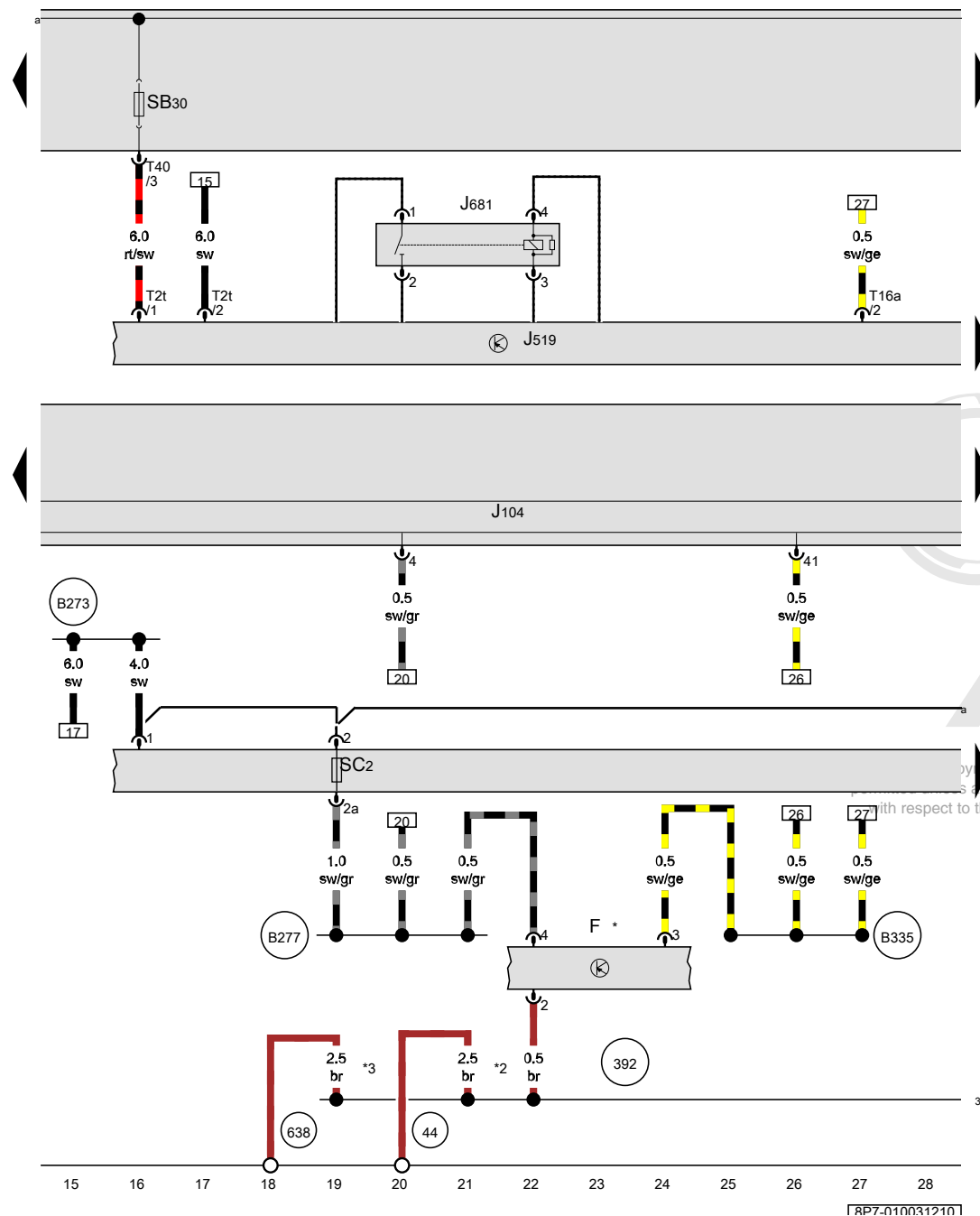
* Only left-hand drive models
 *2 Only right-hand drive models

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 or = orange
 rs = pink

1 2 3 4 5 6 7 8 9 10 11 12 13 14

18P7-0100212101



Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16a 16-pin connector
- T40 40-pin connector

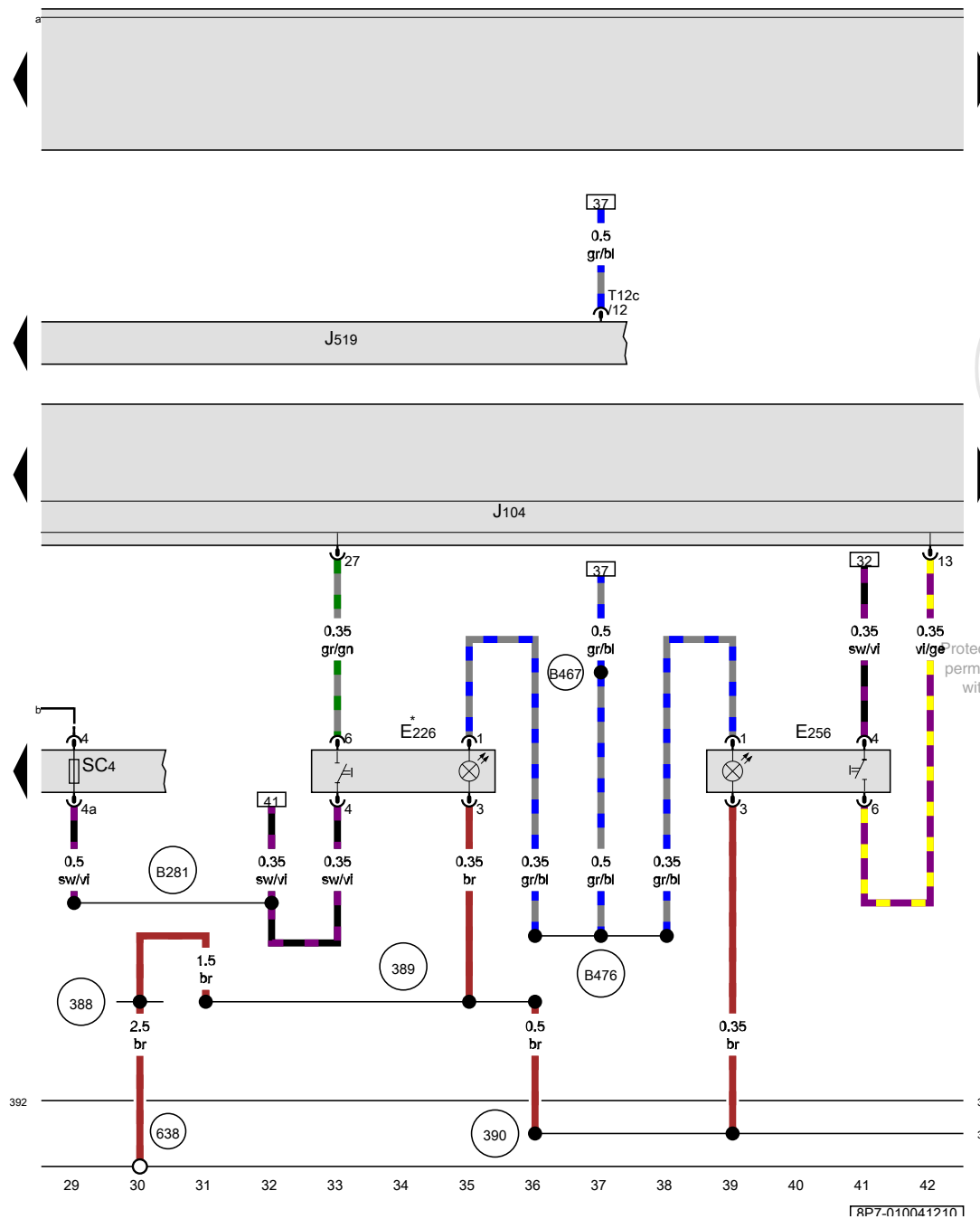
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

* see applicable current flow diagram for engine

*2 Only left-hand drive models

*3 Only right-hand drive models

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Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

- E226 Tyre pressure monitor button
- E256 TCS and ESP button
- J104 ABS control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T12c 12-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

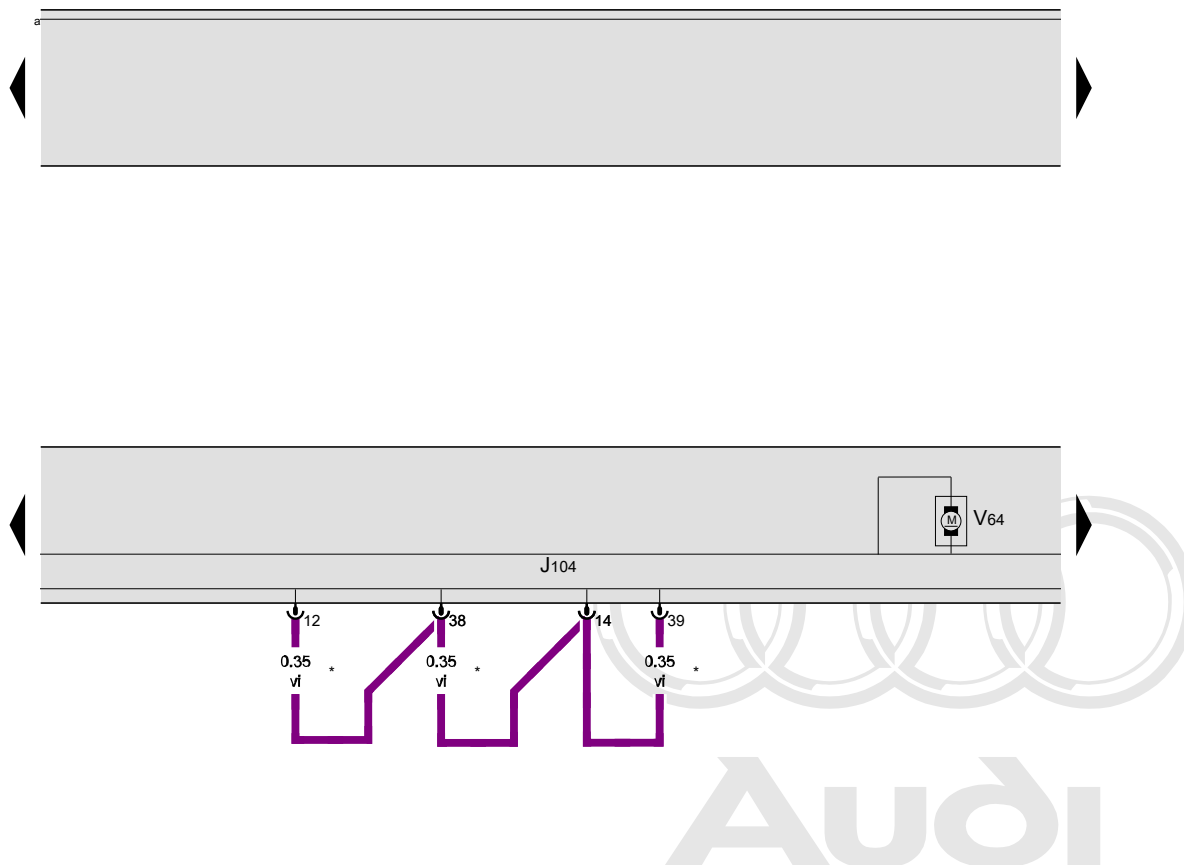
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* If fitted

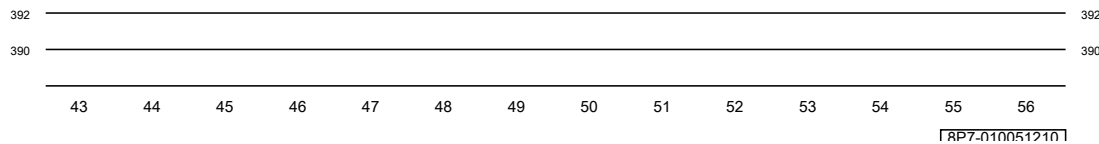
- ws = white
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- li = purple
- ge = yellow
- or = orange
- rs = pink

ABS control unit

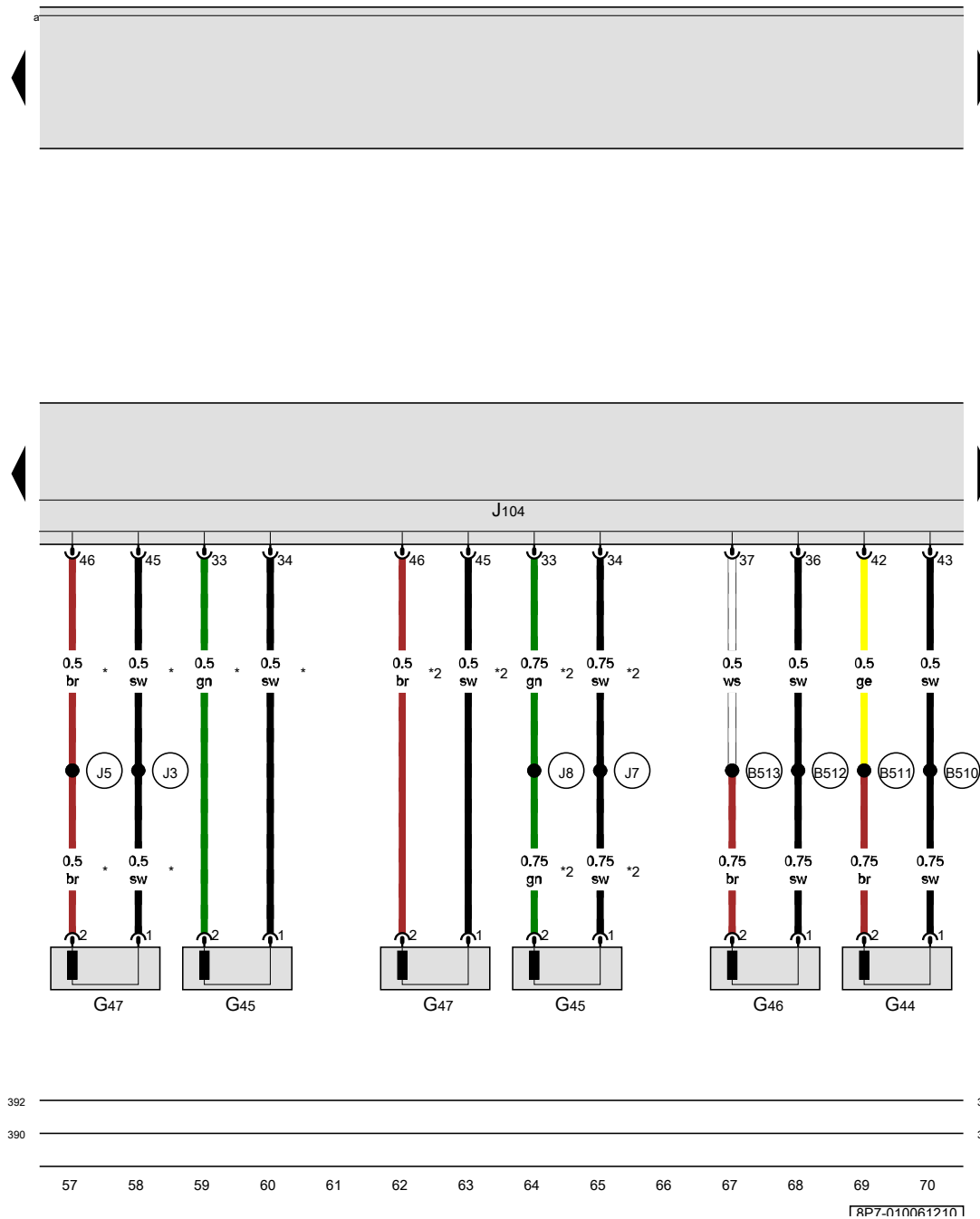
- J104 ABS control unit
- V64 ABS hydraulic pump
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- * According to equipment



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 ge = yellow
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 rs = pink



Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B510 Connection 1 (rear right speed sensor), in interior wiring harness

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B511 Connection 2 (rear right speed sensor), in interior wiring harness

B512 Connection 1 (rear left speed sensor), in interior wiring harness

B513 Connection 2 (rear left speed sensor), in interior wiring harness

J3 Connection 1, in ABS wiring harness

J5 Connection 2, in ABS wiring harness

J7 Connection 3, in ABS wiring harness

J8 Connection 4, in ABS wiring harness

* Only left-hand drive models

*2 Only right-hand drive models

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- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

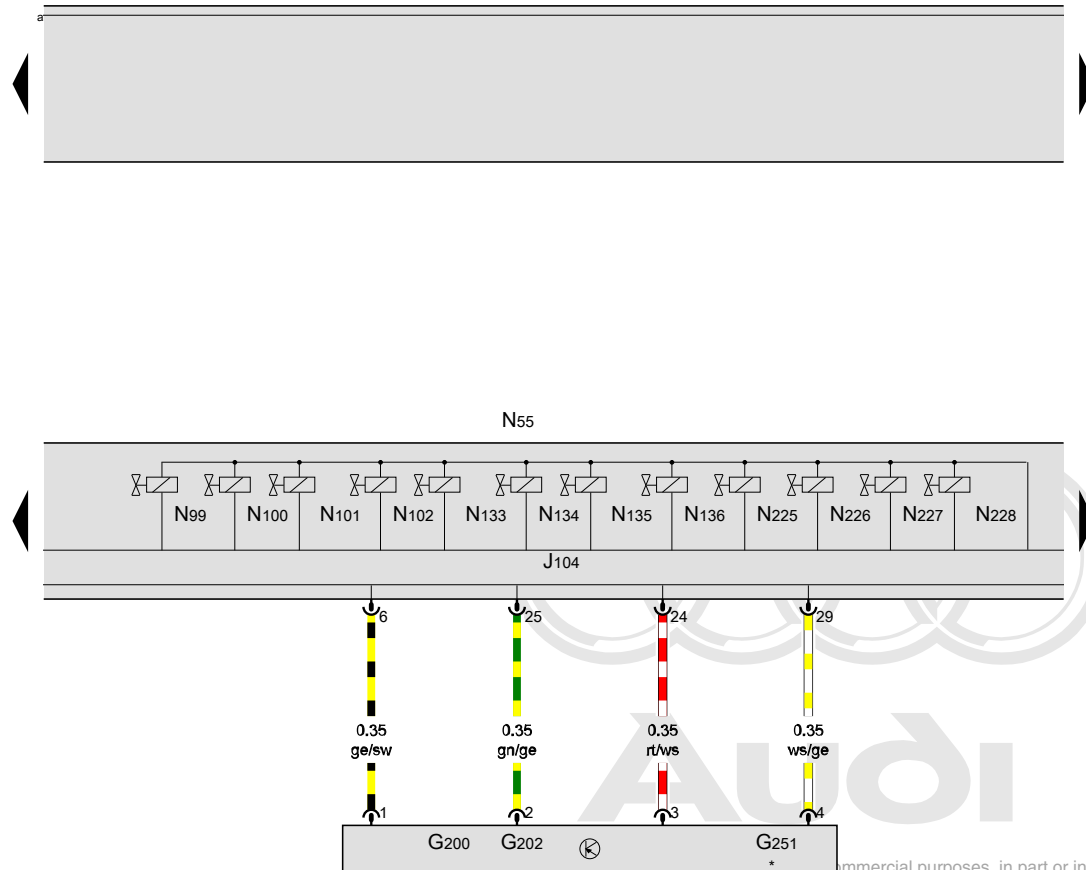
ESP sensor unit, ABS control unit, ABS hydraulic unit

- G200 Lateral acceleration sender
- G202 Yaw rate sender
- G251 Longitudinal acceleration sender
- G419 ESP sensor unit
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

* Only models with all-wheel drive



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- or = orange
- rs = pink

392	71	72	73	74	75	76	77	78	79	80	81	82	83	84	392
390															390

18P7-0100712101

Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

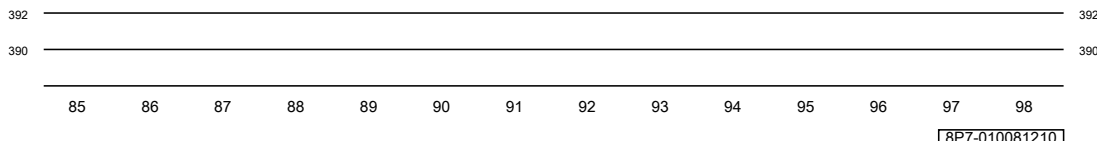
- G201 Brake pressure sender 1
- J104 ABS control unit
- J431 Headlight range control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector

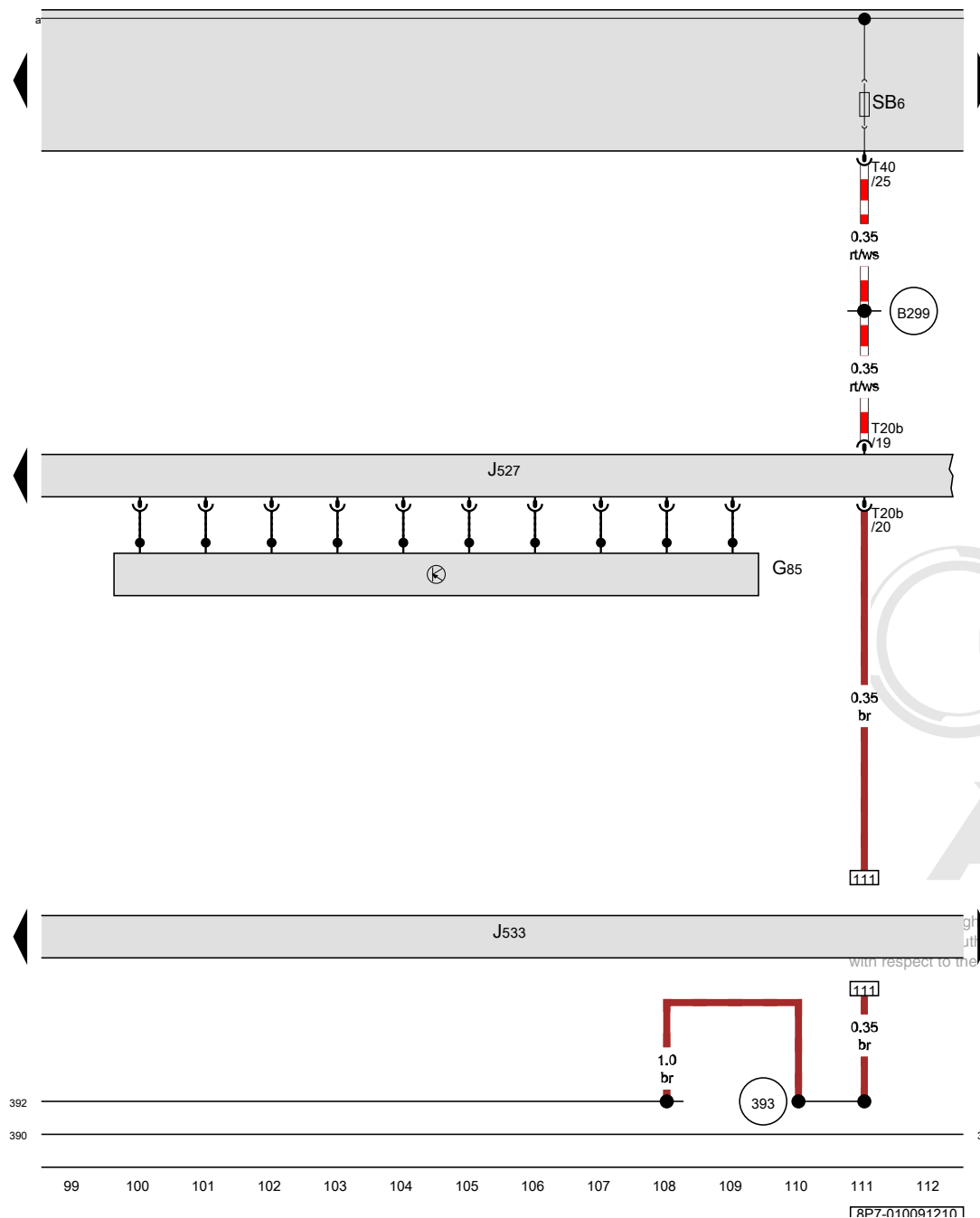
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

- * Only left-hand drive models
- *2 According to equipment
- *3 Only models with dynamic cornering light
- *4 If fitted
- *5 Only right-hand drive models

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

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Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

- G85 Steering angle sender
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B299 Positive connection 3 (30), in main wiring harness

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- ge = yellow
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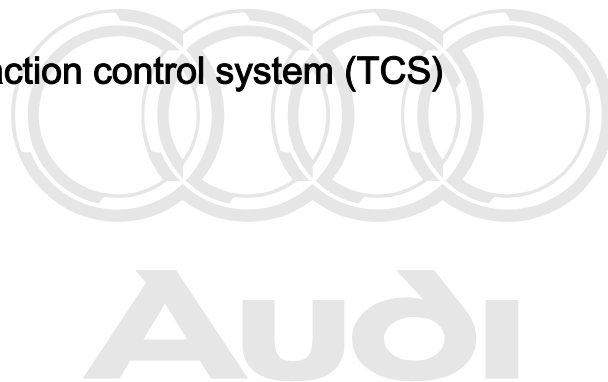
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gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector
390	Earth connection 25, in main wiring harness

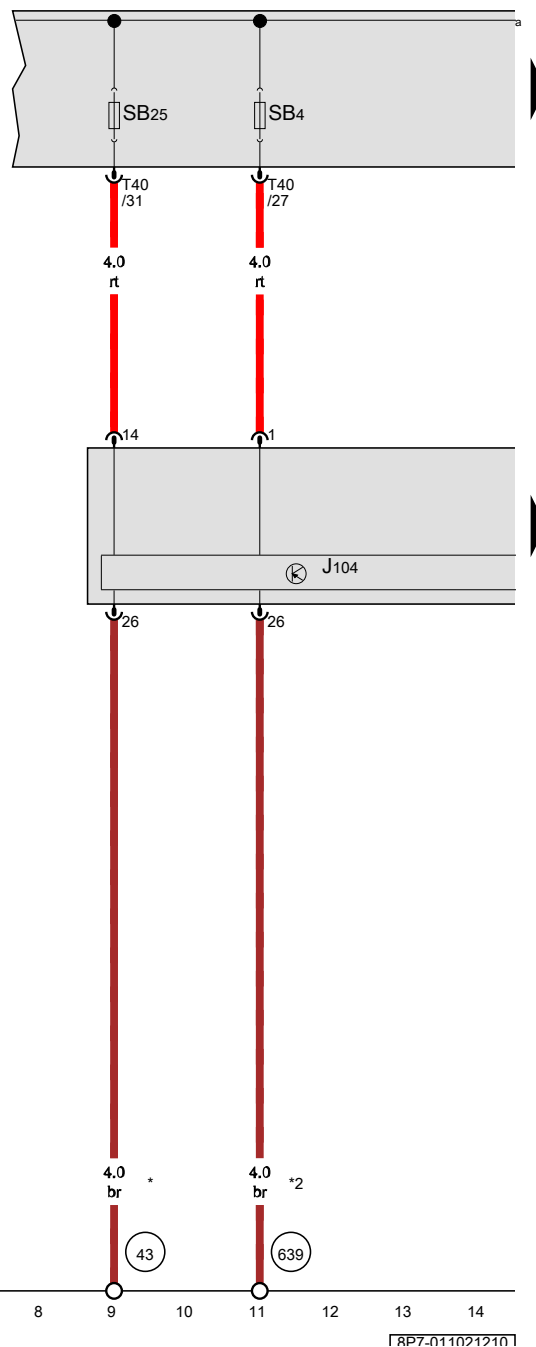


Anti-lock brake system (ABS) with traction control system (TCS)

From March 2008



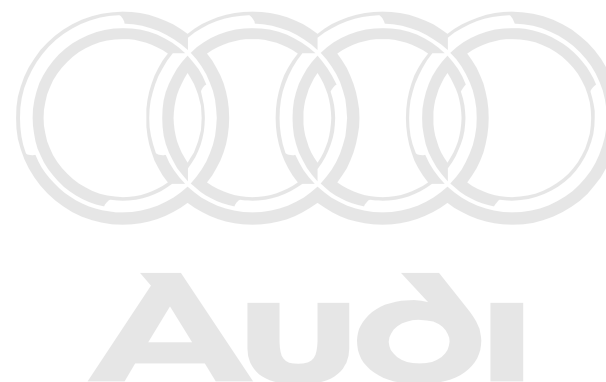
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ABS control unit

- J104 ABS control unit
- SB4 Fuse 4 on fuse holder B
- SB25 Fuse 25 on fuse holder B
- T40 40-pin connector

- 43 Earth point, lower part of right A-pillar
- 639 Earth point, left A-pillar
- * Only left-hand drive models
- *2 Only right-hand drive models



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- li = purple
- ge = yellow
- or = orange
- rs = pink

Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16a 16-pin connector
- T40 40-pin connector

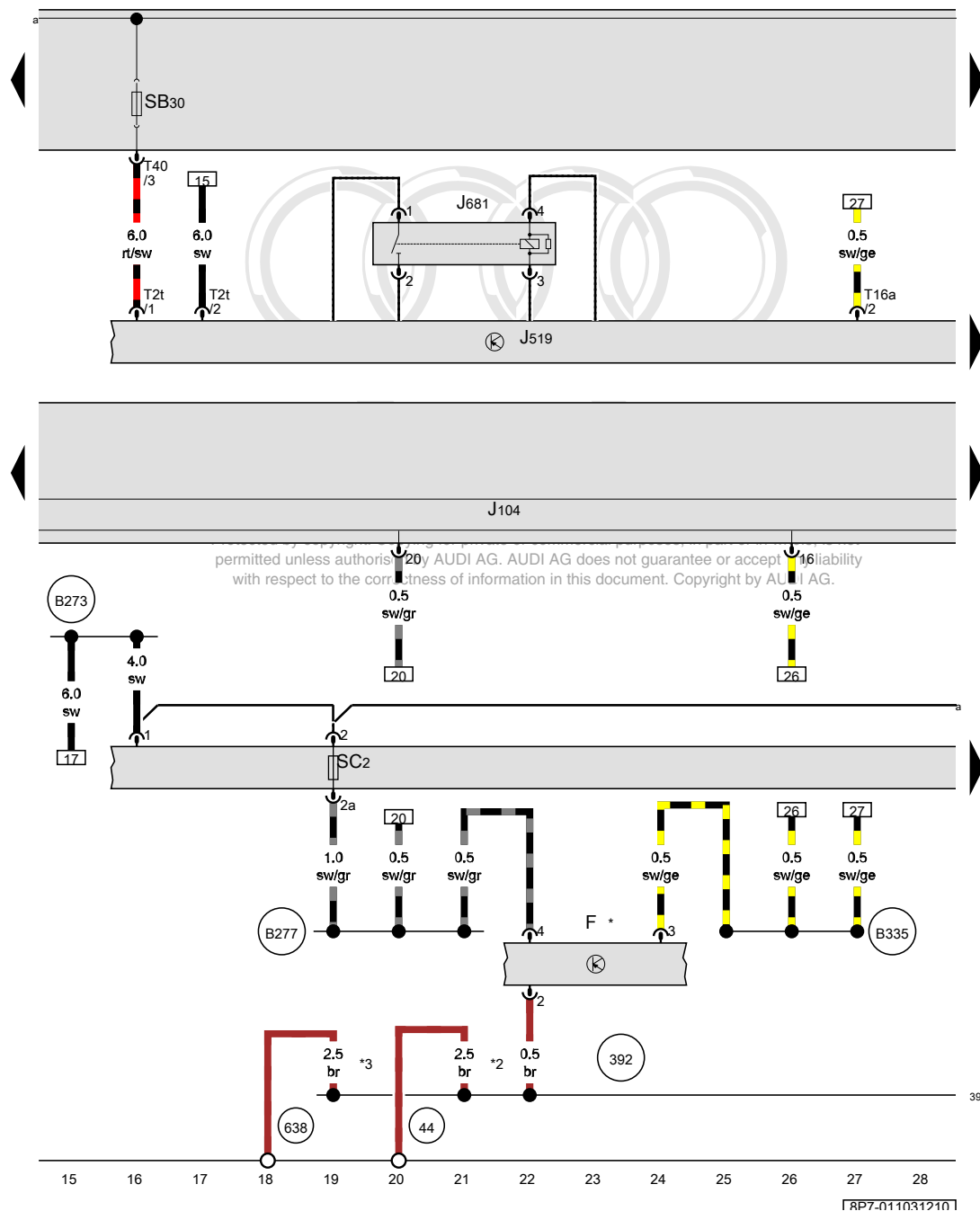
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

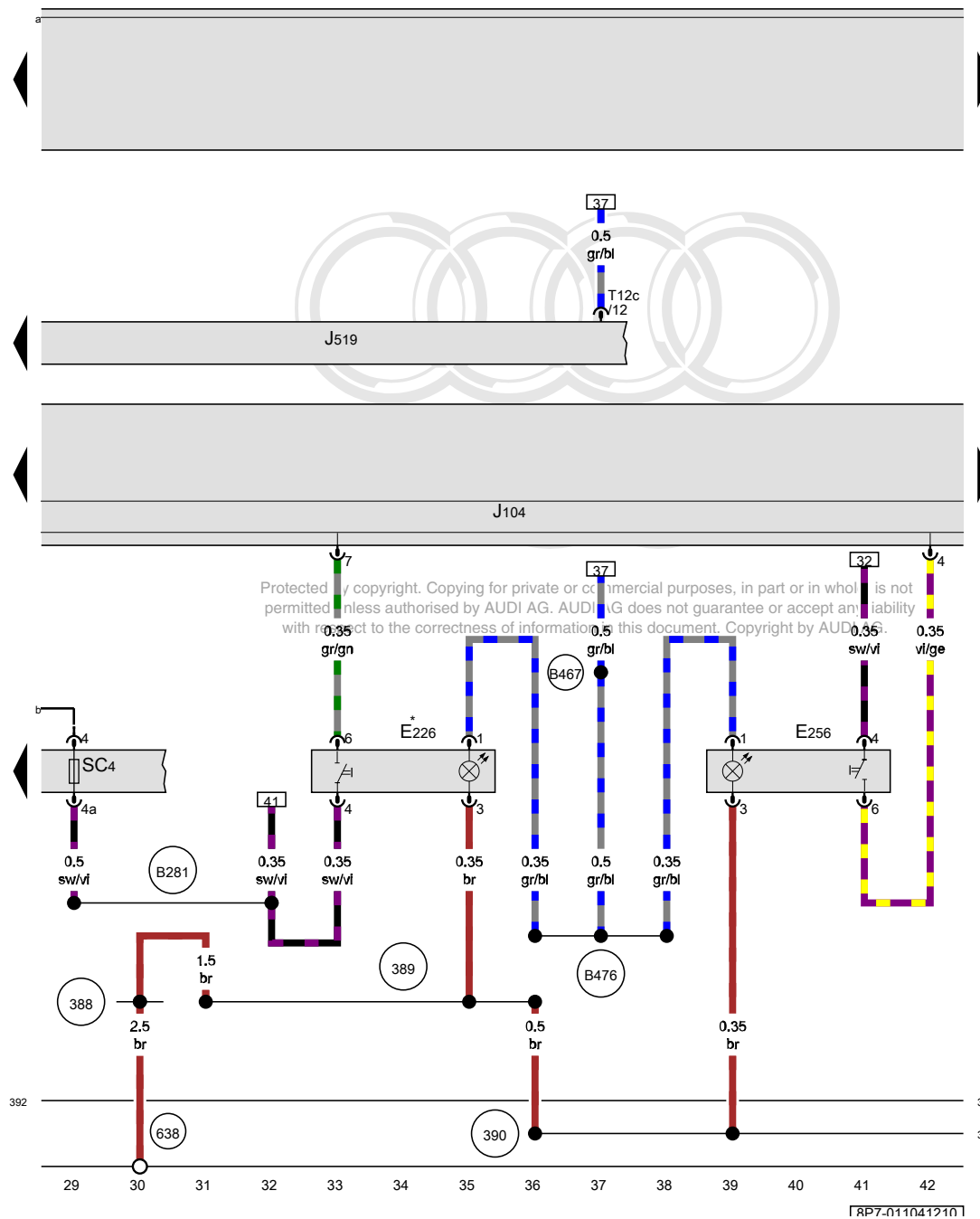
* see applicable current flow diagram for engine

*2 Only left-hand drive models

*3 Only right-hand drive models

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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink





Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

- E226 Tyre pressure monitor button
- E256 TCS and ESP button
- J104 ABS control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T12c 12-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

* If fitted

Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit
- V64 ABS hydraulic pump

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B510 Connection 1 (rear right speed sensor), in interior wiring harness

B511 Connection 2 (rear right speed sensor), in interior wiring harness

B512 Connection 1 (rear left speed sensor), in interior wiring harness

B513 Connection 2 (rear left speed sensor), in interior wiring harness

J3 Connection 1, in ABS wiring harness

J5 Connection 2, in ABS wiring harness

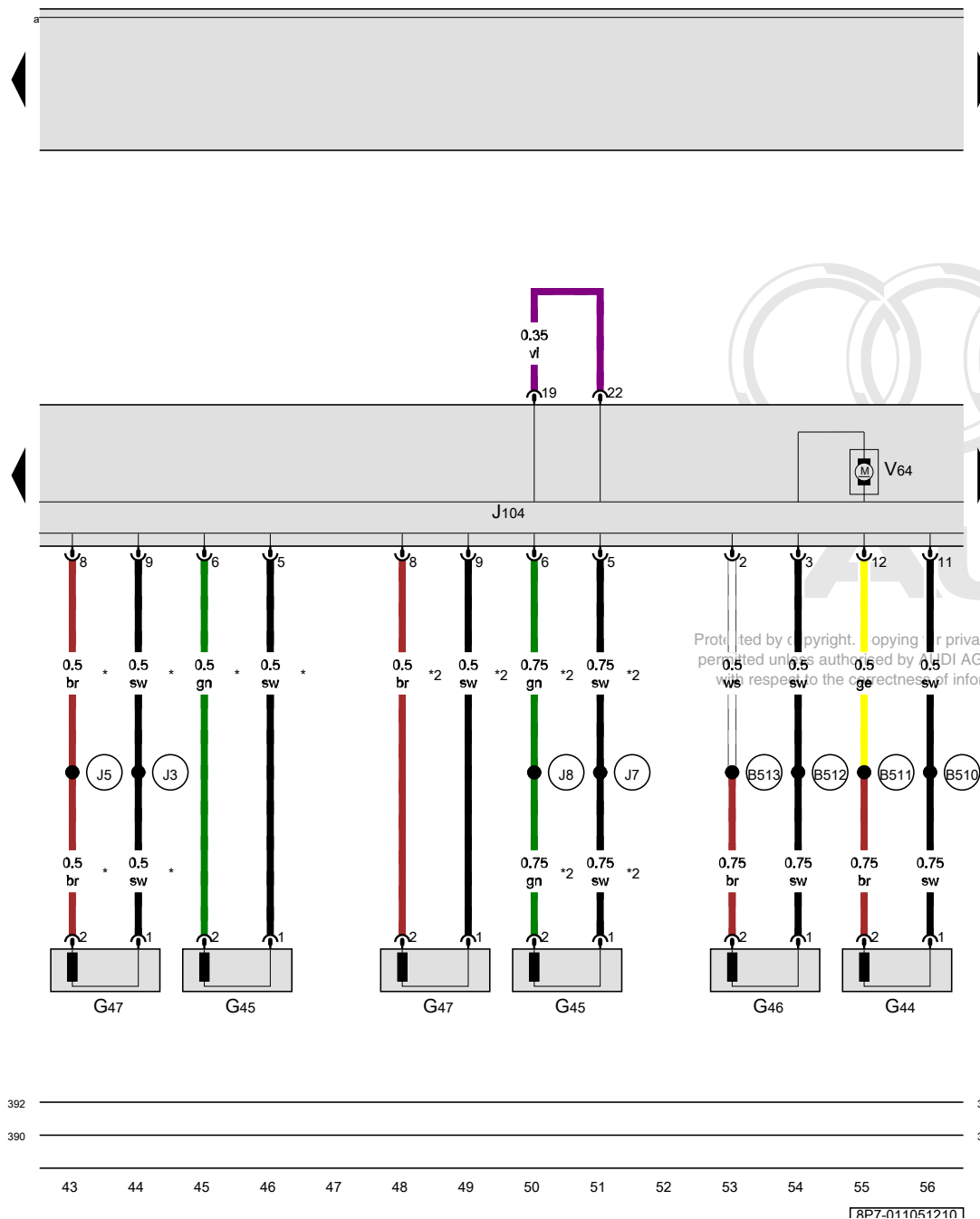
J7 Connection 3, in ABS wiring harness

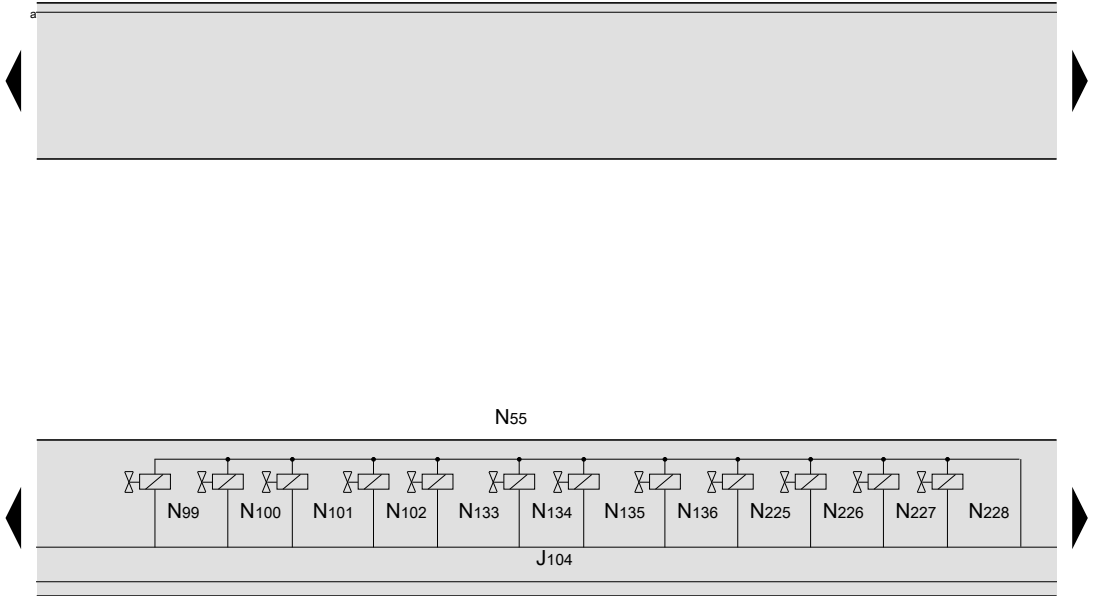
J8 Connection 4, in ABS wiring harness

* Only left-hand drive models

*2 Only right-hand drive models

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





ABS control unit, ABS hydraulic unit

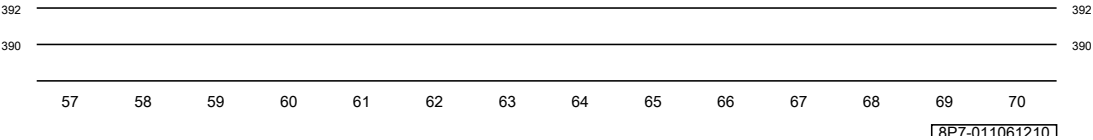
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness



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- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

- G201 Brake pressure sender 1
- J104 ABS control unit
- J431 Headlight range control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B384 Connection 2 (powertrain CAN bus, high), in main wiring harness

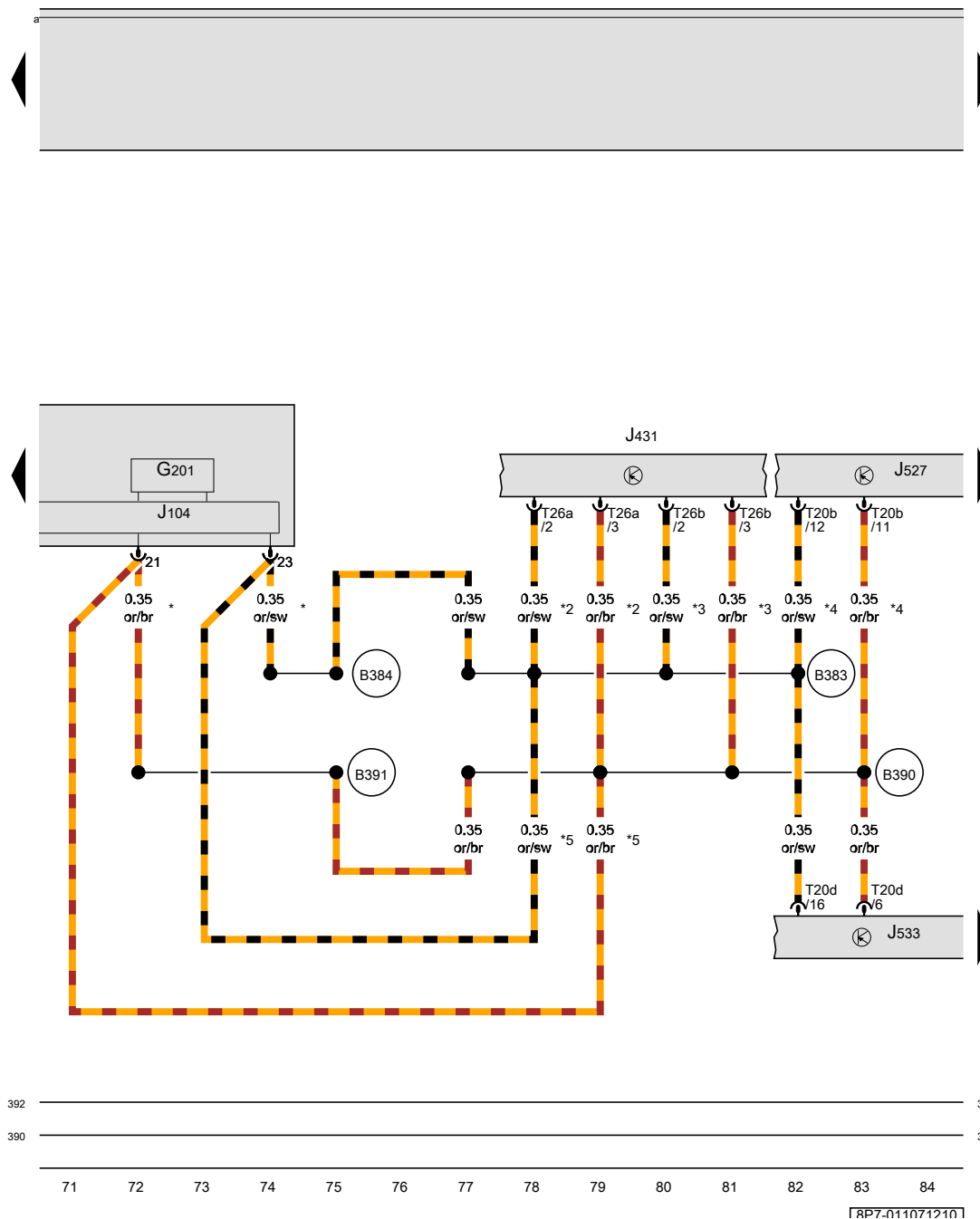
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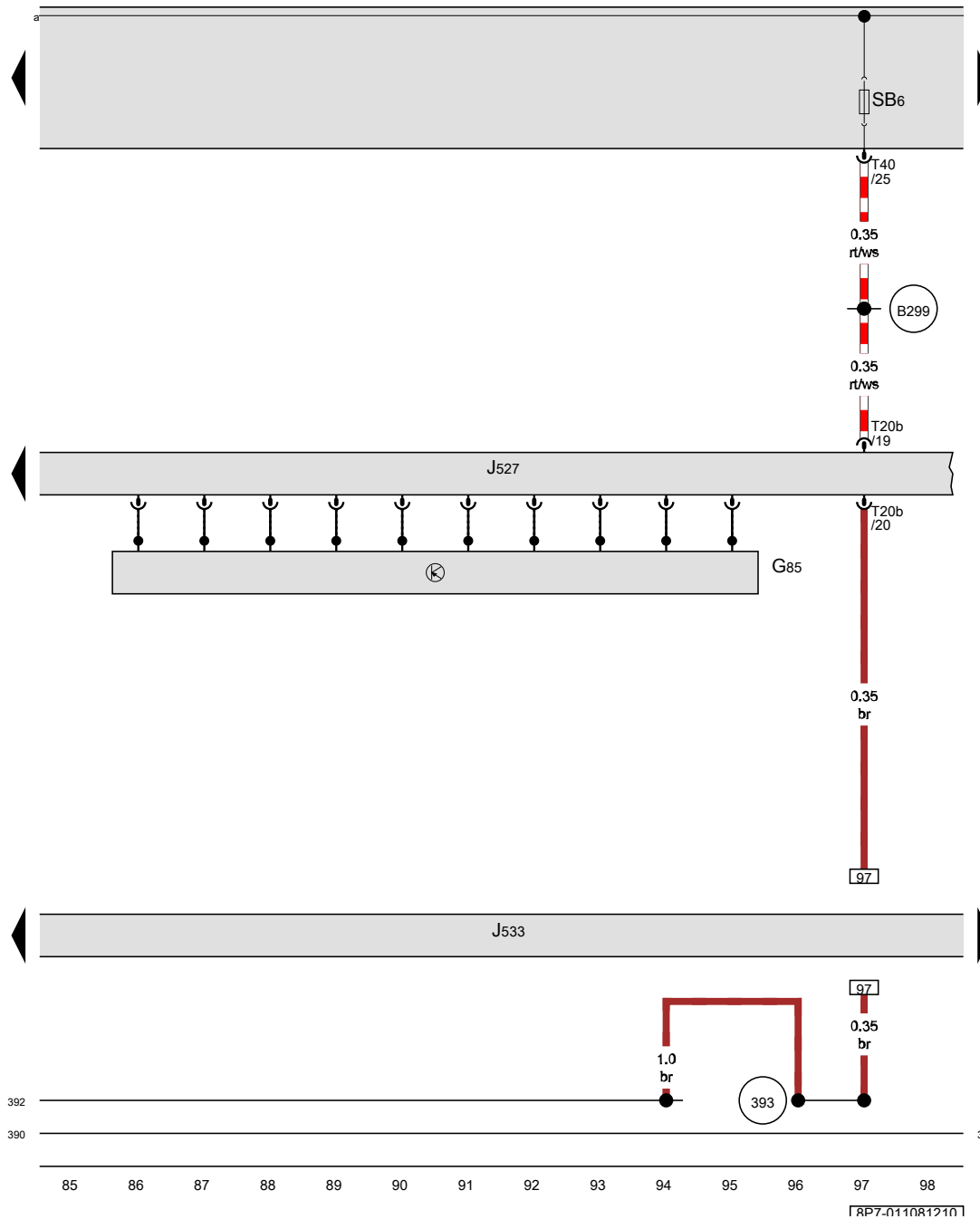
B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

- * Only left-hand drive models
- *2 According to equipment
- *3 Only models with dynamic cornering light
- *4 If fitted
- *5 Only right-hand drive models

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- li = purple
- ge = yellow
- or = orange
- rs = pink





Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

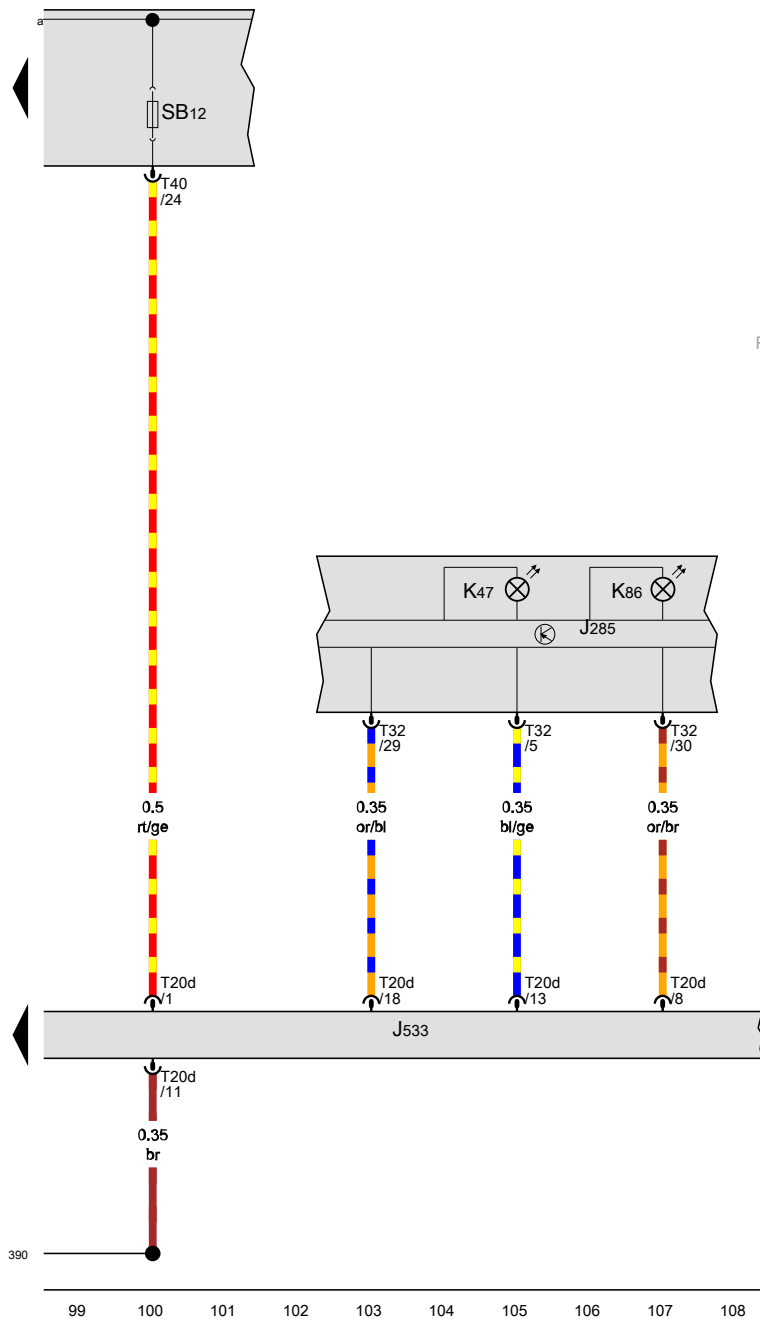
- G85 Steering angle sender
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B299 Positive connection 3 (30), in main wiring harness



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Control unit in dash panel insert, Data bus diagnostic interface, ABS warning lamp, Traction control system warning lamp

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K47 ABS warning lamp
- K86 Traction control system warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

390 Earth connection 25, in main wiring harness

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Garage door operation - (Homelink)

from March 2008

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



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M/30

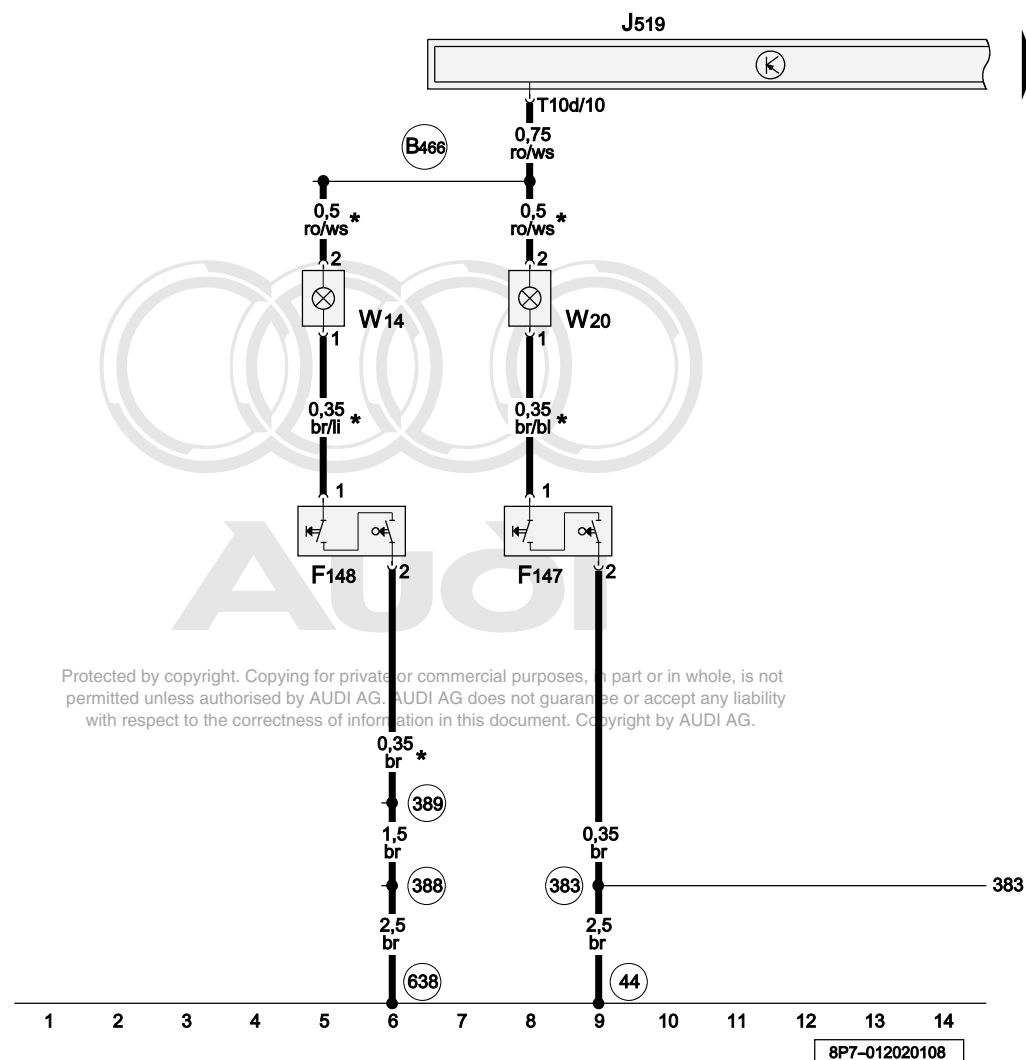
M/30

Vanity mirror

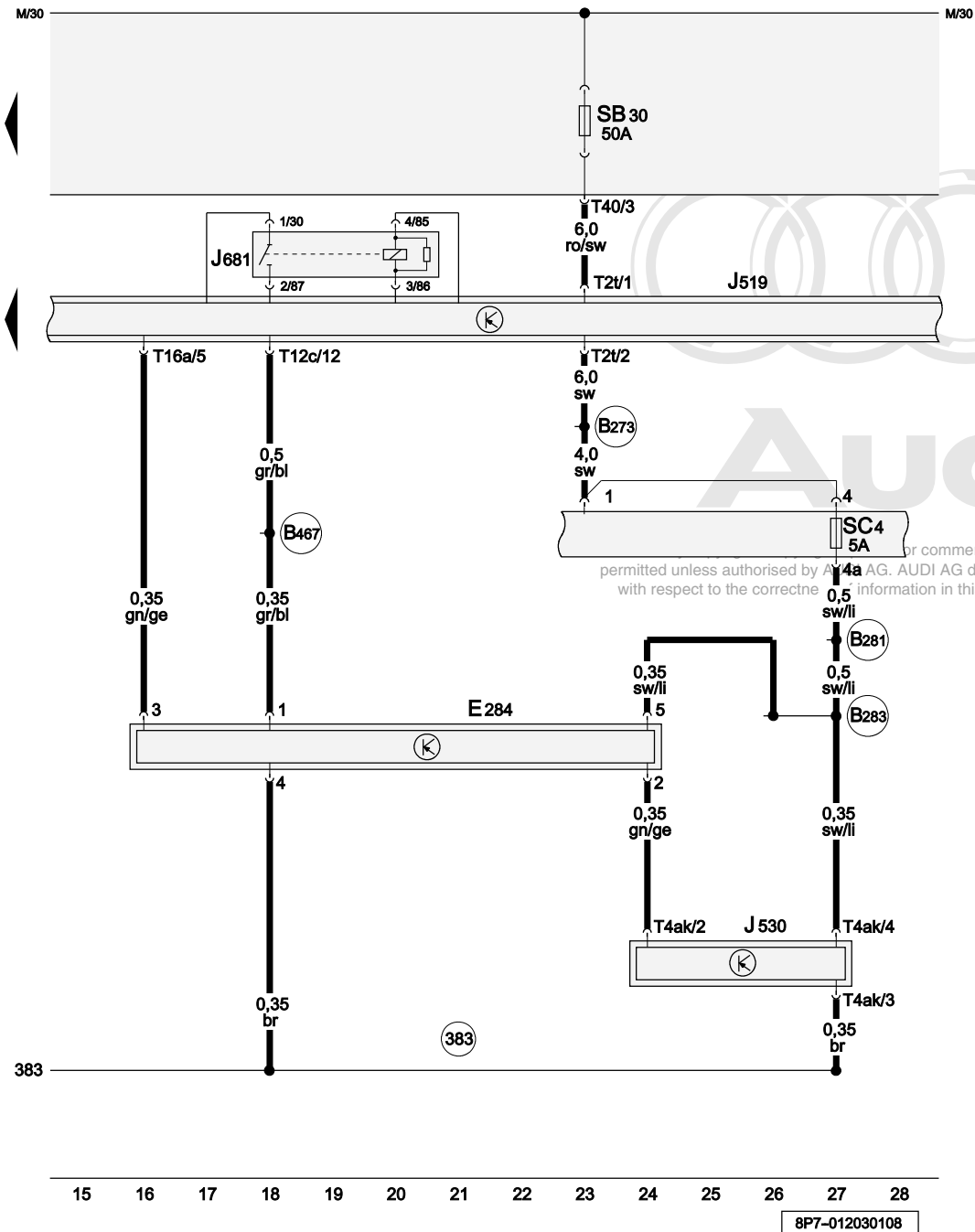
- F147 Driver vanity mirror contact switch
- F148 Front passenger side vanity mirror contact switch
- J519 Onboard supply control unit
- T10d 10-pin connector, black (connector K)
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 638 Earth point, right A-pillar
- B466 Connection 2 in main wiring harness

* models with illuminated vanity mirror only



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Garage door operating unit, garage door operation control unit

- E284 Garage door operating unit
- J519 Onboard supply control unit
- J530 Garage door operation control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T4ak 4-pin connector, black (connector A)
- T12c 12-pin connector, black (connector B)
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 383 Earth connection 18, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- B467 Connection 3 in main wiring harness

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Diagnostic connector

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

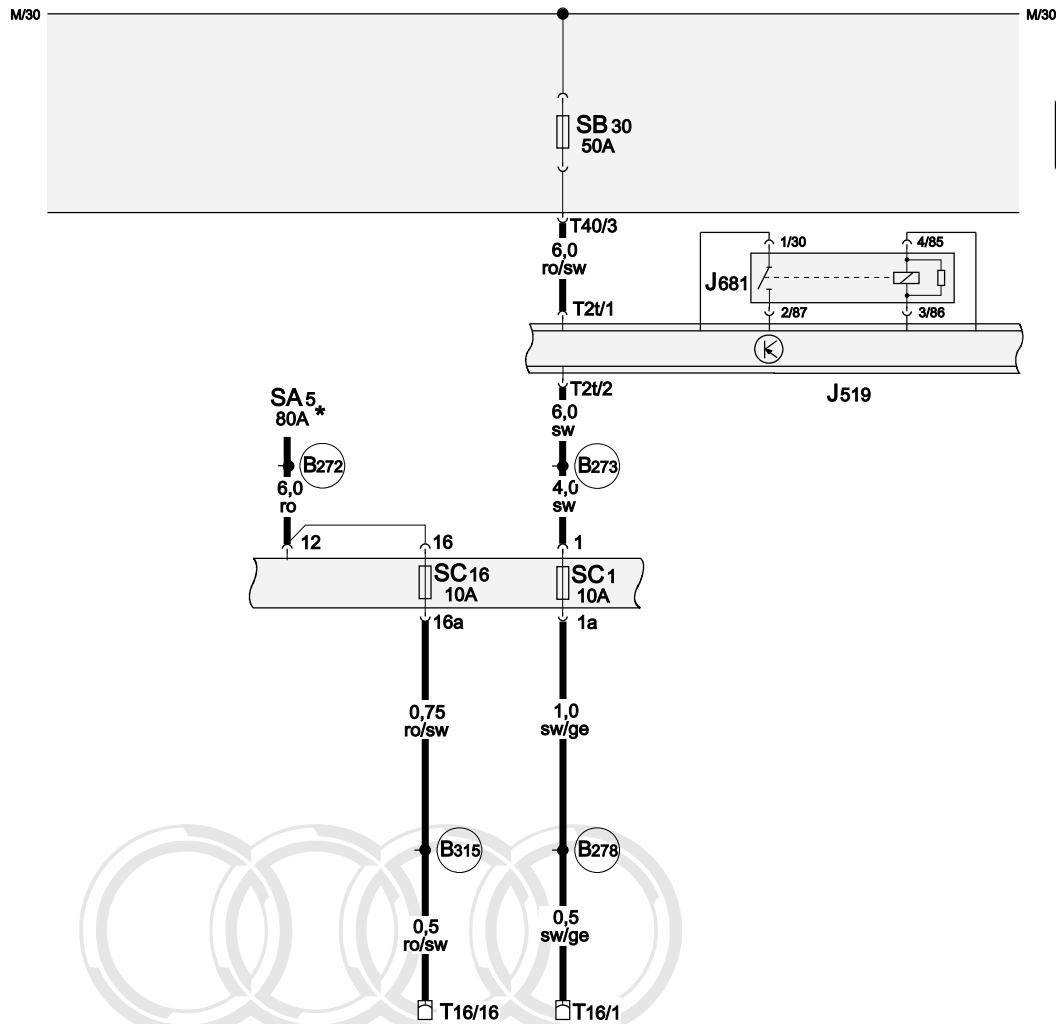
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Diagnostic connector, terminal 15 voltage supply relay 2, fuses

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SA5 Fuse 5 on fuse holder A
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

B272 Positive connection (30), in main wiring harness

B273 Positive connection (15), in main wiring harness

B278 Positive connection 2 (15a), in main wiring harness

B315 Positive connection 1 (30a), in main wiring harness

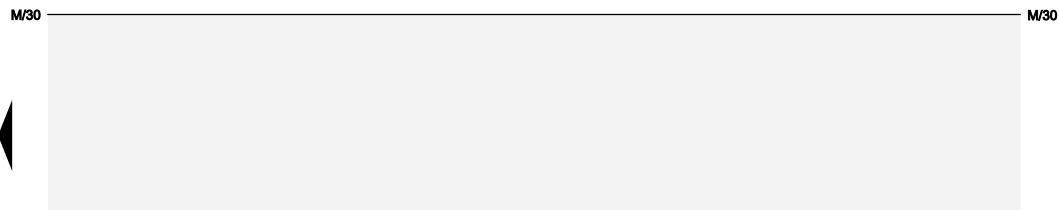
* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

8P7-013020108



Data bus diagnostic interface, diagnostic connector

- J... Engine control units
- J533 Data bus diagnostic interface
- J743 Mechatronic unit for direct shift gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)

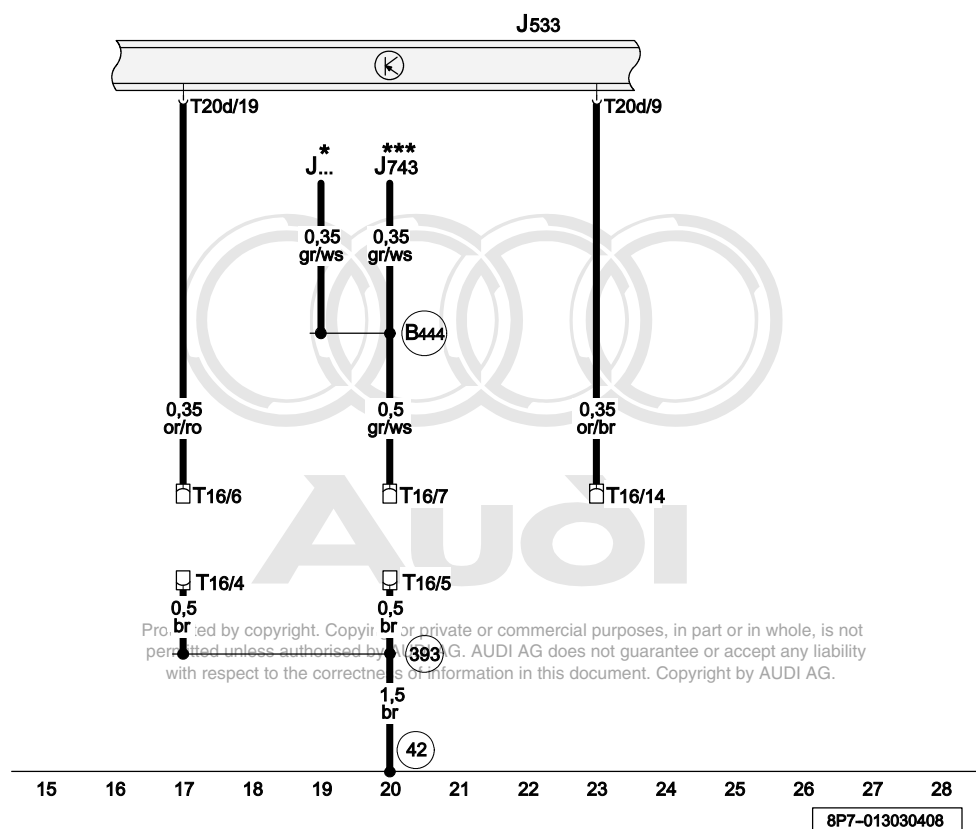
42 Earth point, next to steering column

393 Earth connection 28, in main wiring harness

B444 Connection 1 (diagnosis), in main wiring harness

* => applicable engine Current Flow Diagram

*** => applicable Current Flow Diagram: automatic gearbox



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Ultrasonic parking aid, rear

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

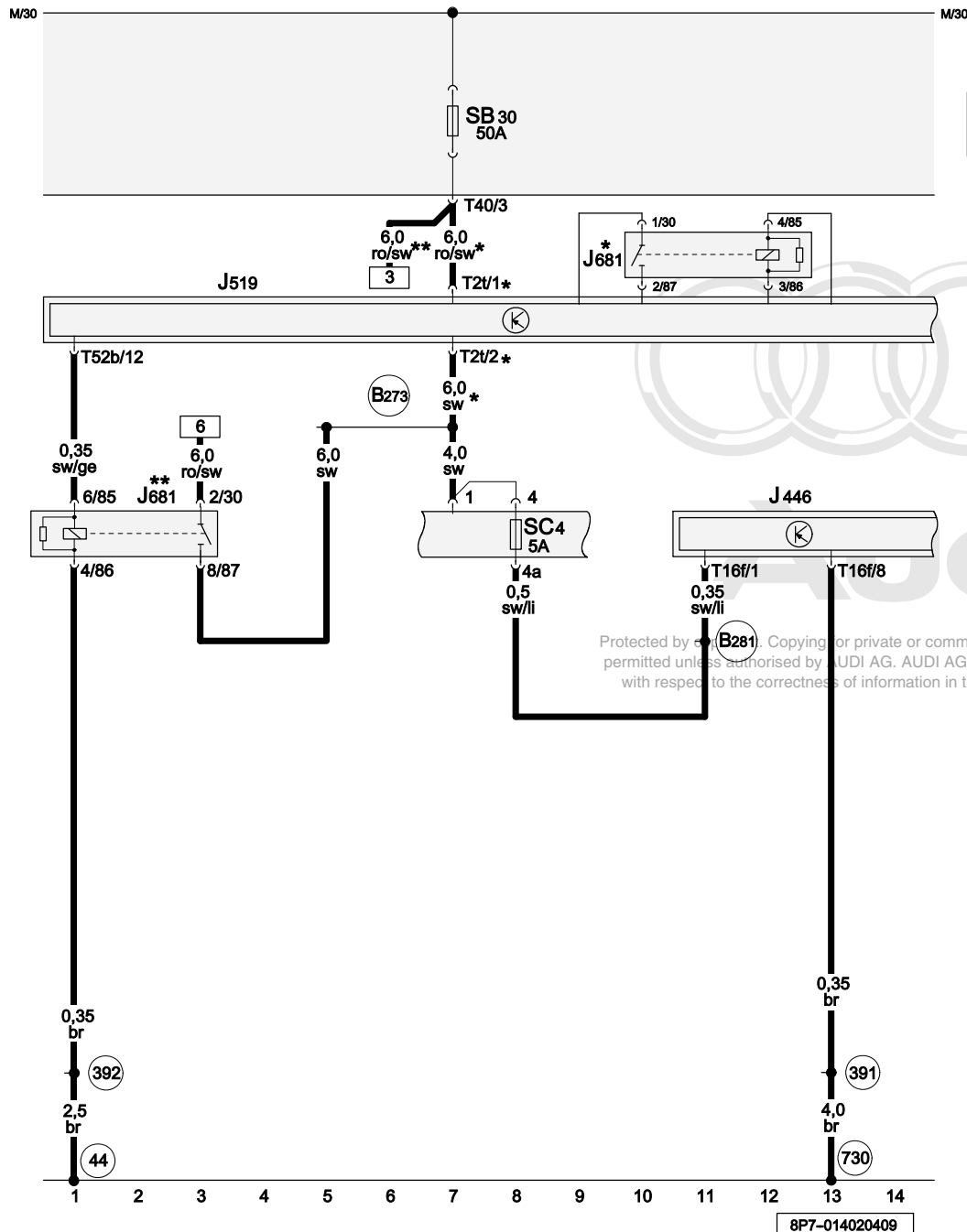
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding

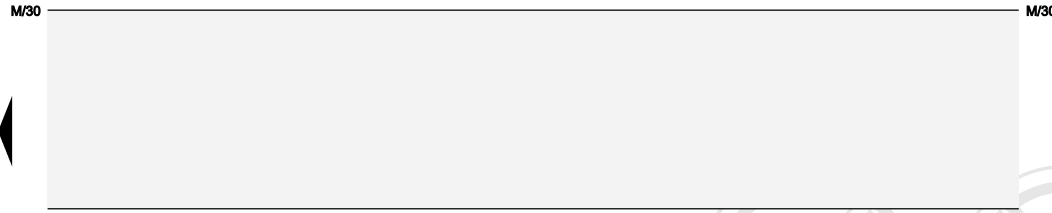


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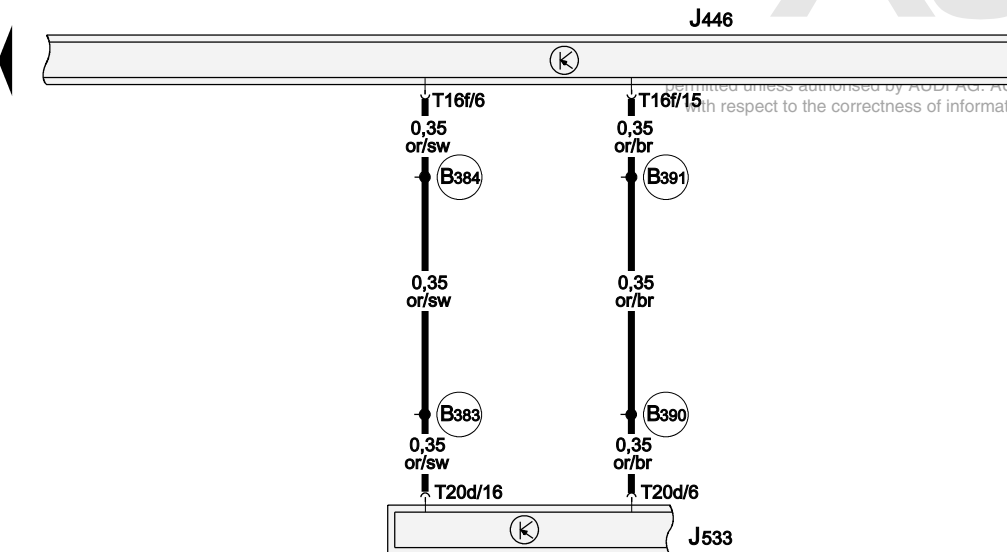
Terminal 15 voltage supply relay 2, parking aid control unit, fuses on fuse holder

- J446 Parking aid control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T16f 16-pin connector, brown (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- 44 Earth point, lower part of left A-pillar
- 391 Earth connection 26, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 730 Earth point 1 on rear right wheel housing
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- * is dropped from May 2009
- ** applicable from May 2009



Parking aid control unit, data bus diagnostic interface

- J446 Parking aid control unit
- J533 Data bus diagnostic interface
- T16f 16-pin connector, brown (connector A)
- T20d 20-pin connector, black (connector A)
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness

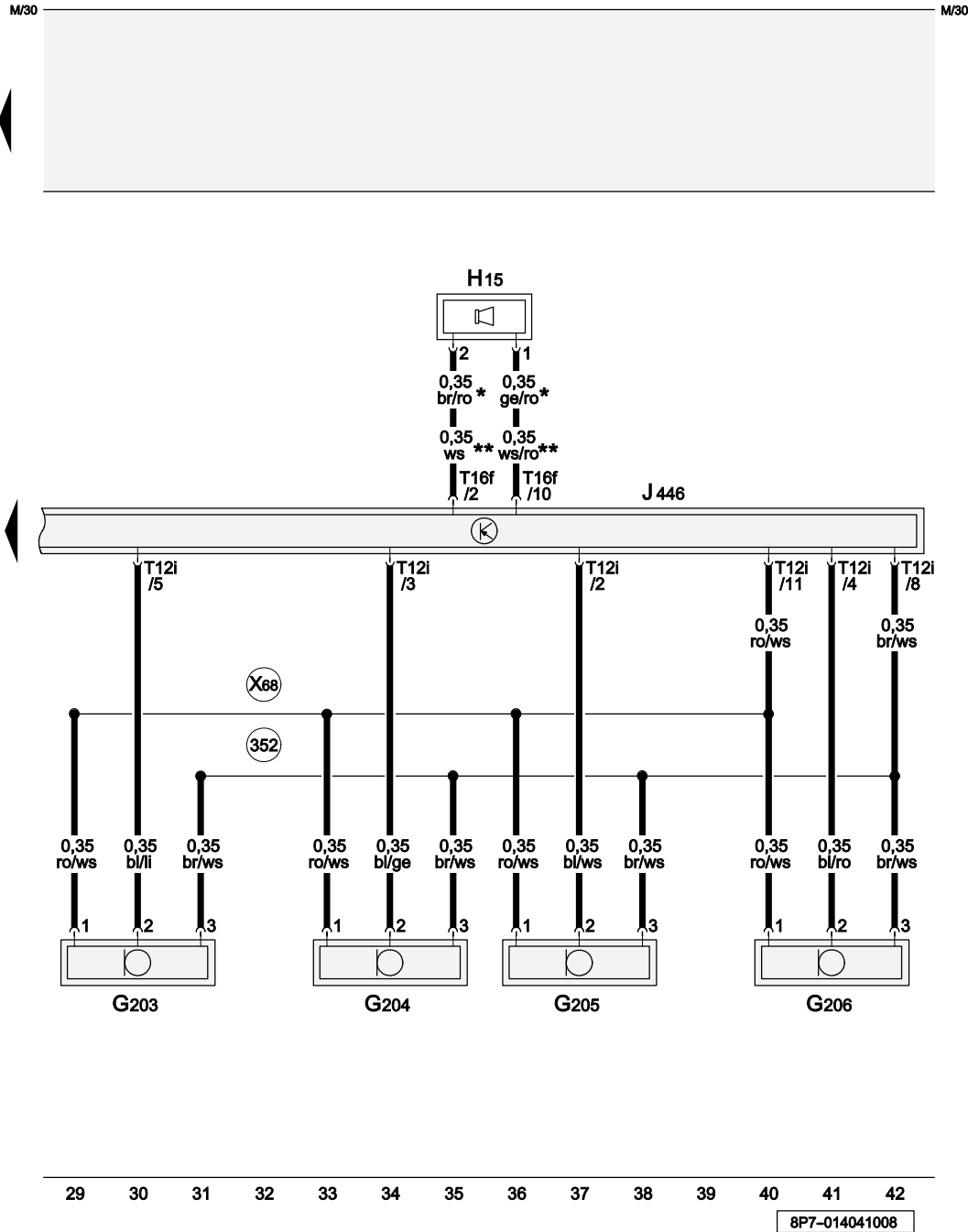


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- rs = pink

15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-014030108



Parking aid sender, parking aid warning buzzer, parking aid control unit

- G203 Rear left parking aid sender
- G204 Rear centre left parking aid sender
- G205 Rear centre right parking aid sender
- G206 Rear right parking aid sender
- H15 Rear parking aid warning buzzer
- J446 Parking aid control unit
- T12i 12-pin connector, black (connector C)
- T16f 16-pin connector, brown (connector A)

352 Earth connection (parking aid), in rear bumper wiring harness

X68 Connection (parking aid), in rear bumper wiring harness

* No longer fitted, phased-in modification
** phased-in modification

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Front and rear parking aid (PDC)

From May 2008

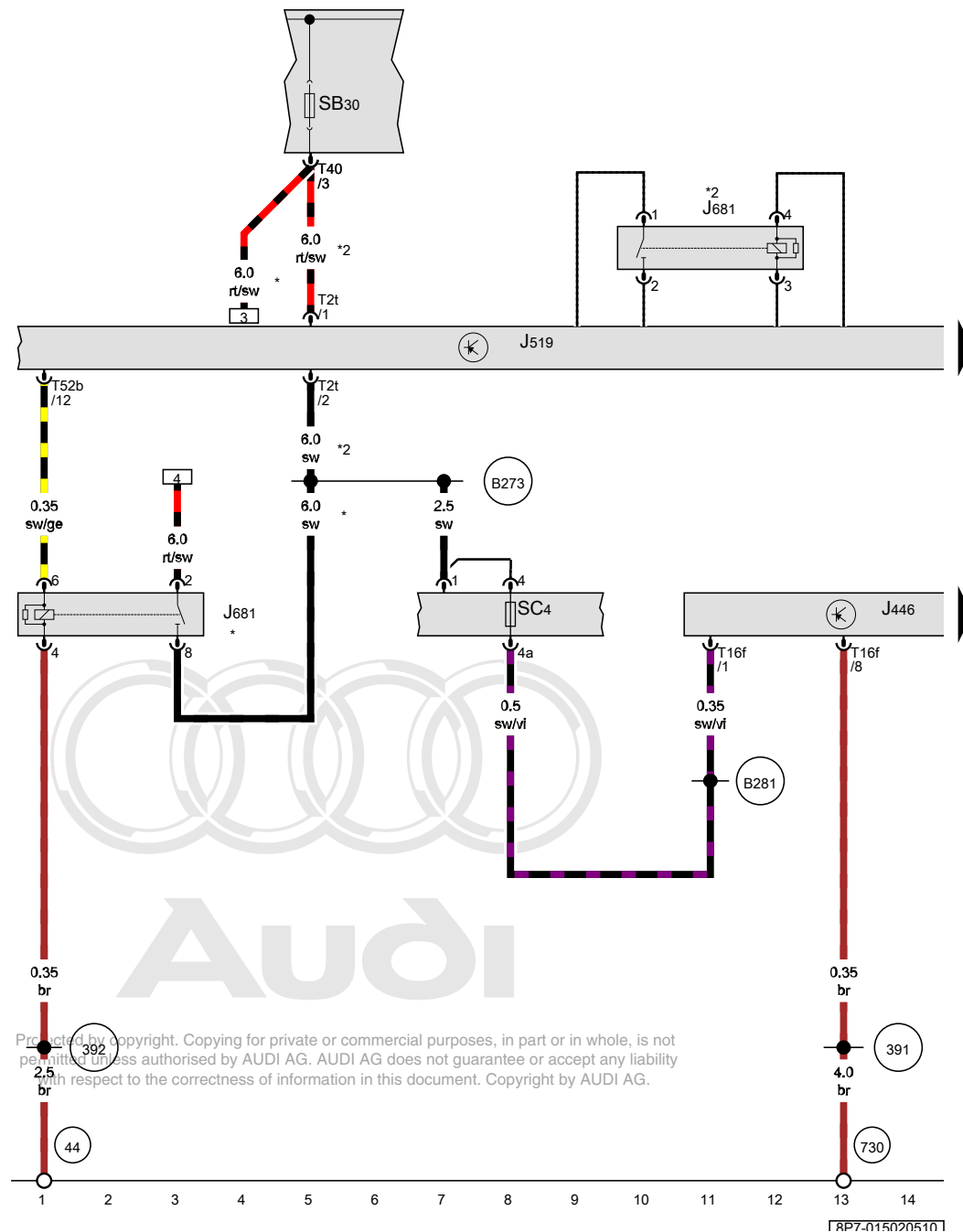


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Parking aid control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

- J446 Parking aid control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16f 16-pin connector
- T40 40-pin connector
- T52b 52-pin connector

- 44 Earth point, lower part of left A-pillar
- 391 Earth connection 26, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 730 Earth point 1, on right rear wheel housing
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a) in main wiring harness
- * From May 2009
- *2 Up to April 2009



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Parking aid button, Parking aid control unit, Onboard supply control unit, Data bus diagnostic interface

E266 Parking aid button
J446 Parking aid control unit
J519 Onboard supply control unit
J533 Data bus diagnostic interface
T10ac 10-pin connector
T12c 12-pin connector
T16f 16-pin connector
T20d 20-pin connector
T52b 52-pin connector

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

638 Earth point, on right A-pillar

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B384 Connection 2 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

B467 Connection 3, in main wiring harness

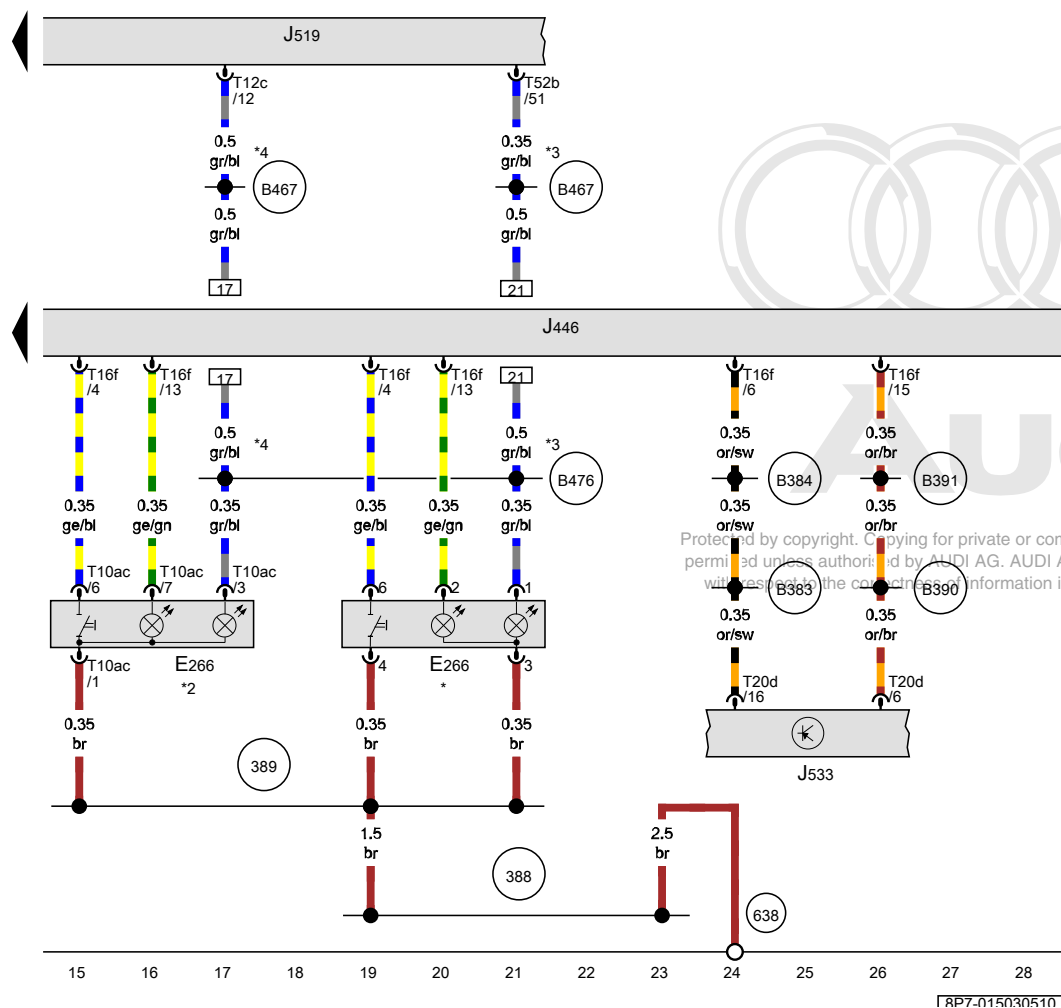
B476 Connection 12, in main wiring harness

* Gradually discontinued

*2 gradual introduction

*3 From May 2009

*4 Up to April 2009



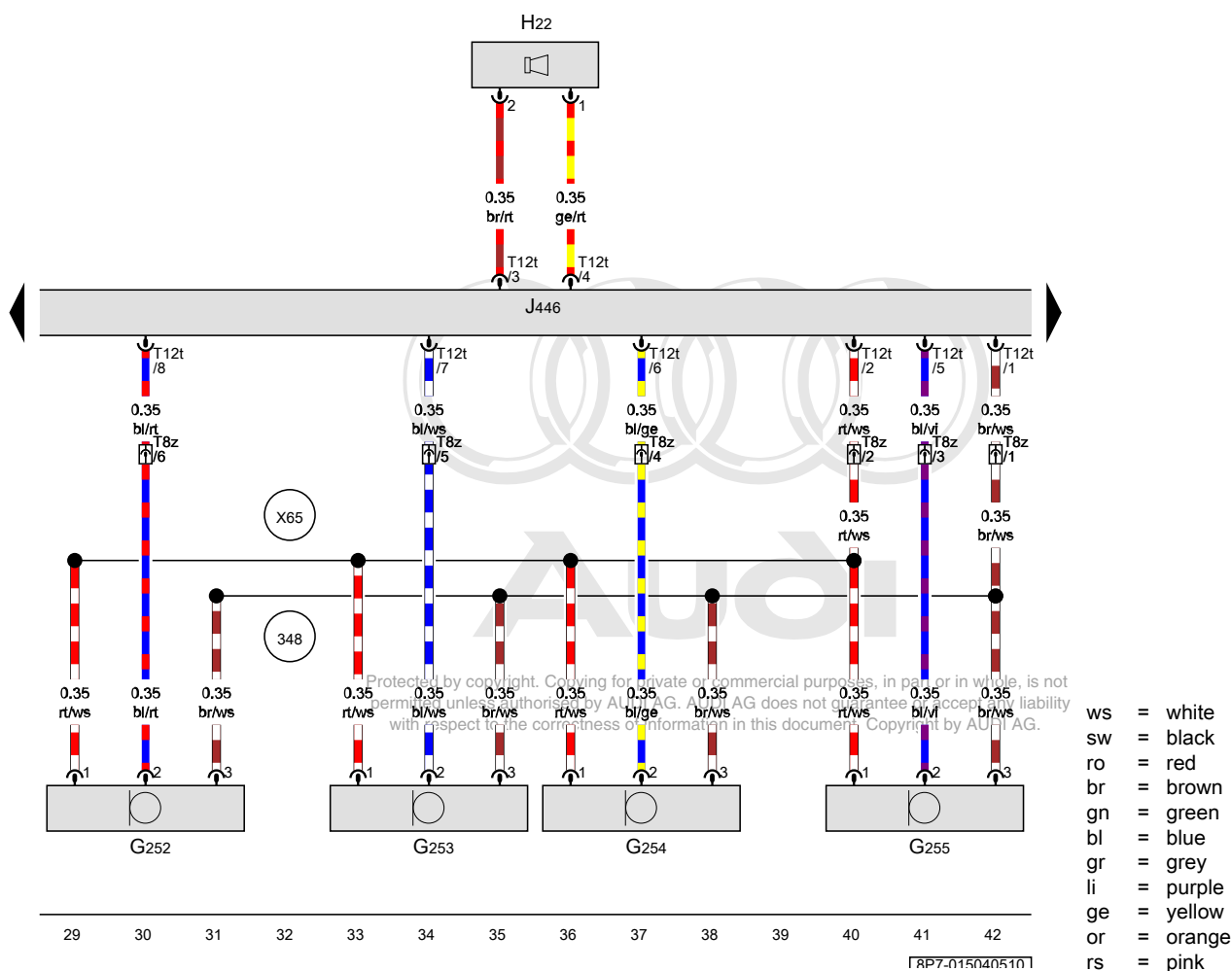
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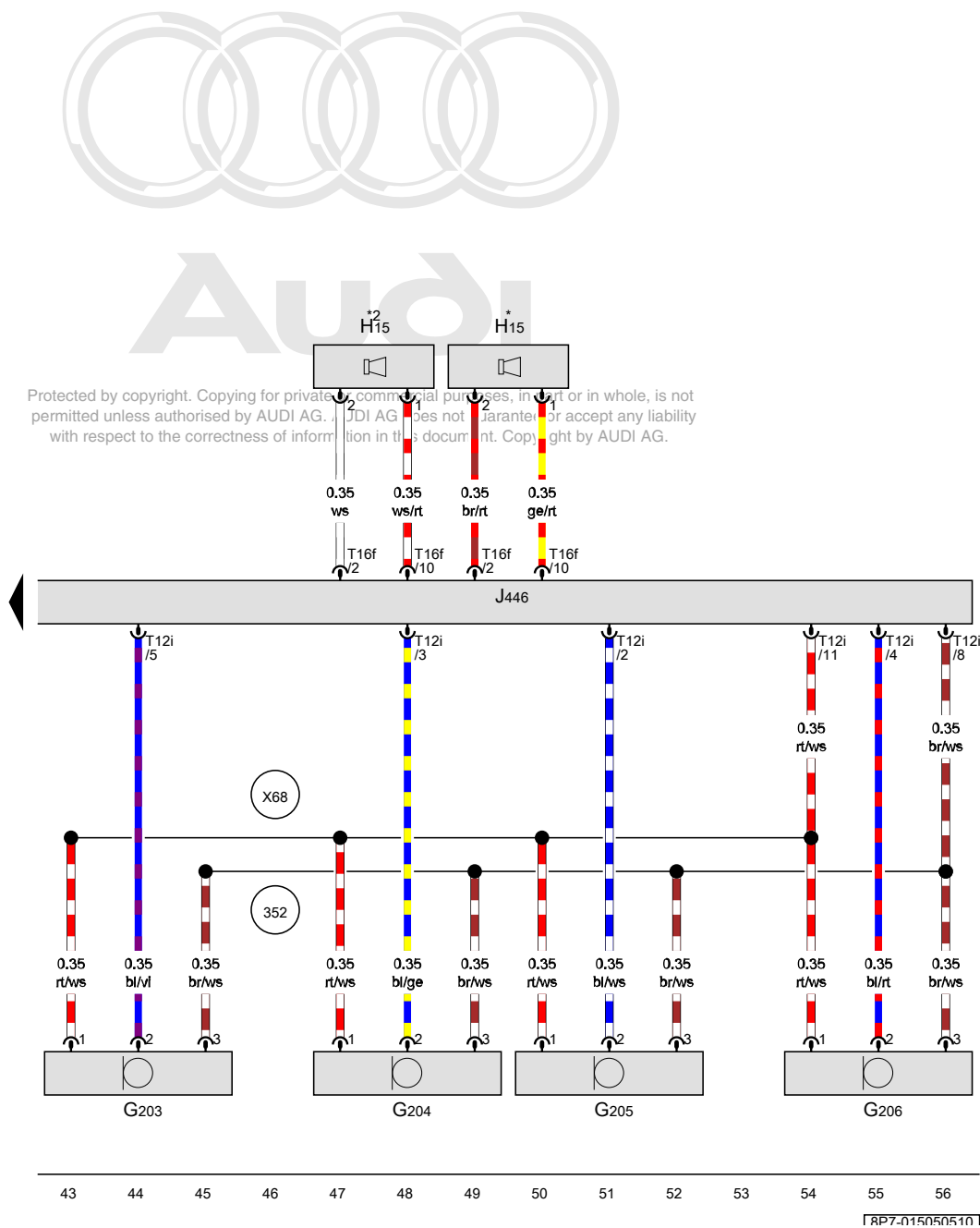
Front right parking aid sender, Front centre right parking aid sender, Front centre left parking aid sender, Front left parking aid sender, Parking aid control unit

- G252 Front right parking aid sender
- G253 Front centre right parking aid sender
- G254 Front centre left parking aid sender
- G255 Front left parking aid sender
- H22 Front parking aid warning buzzer
- J446 Parking aid control unit
- T8z 8-pin connector
- T12t 12-pin connector

348 Earth connection (parking aid), in front bumper wiring harness

X65 Connection (parking aid), in front bumper wiring harness



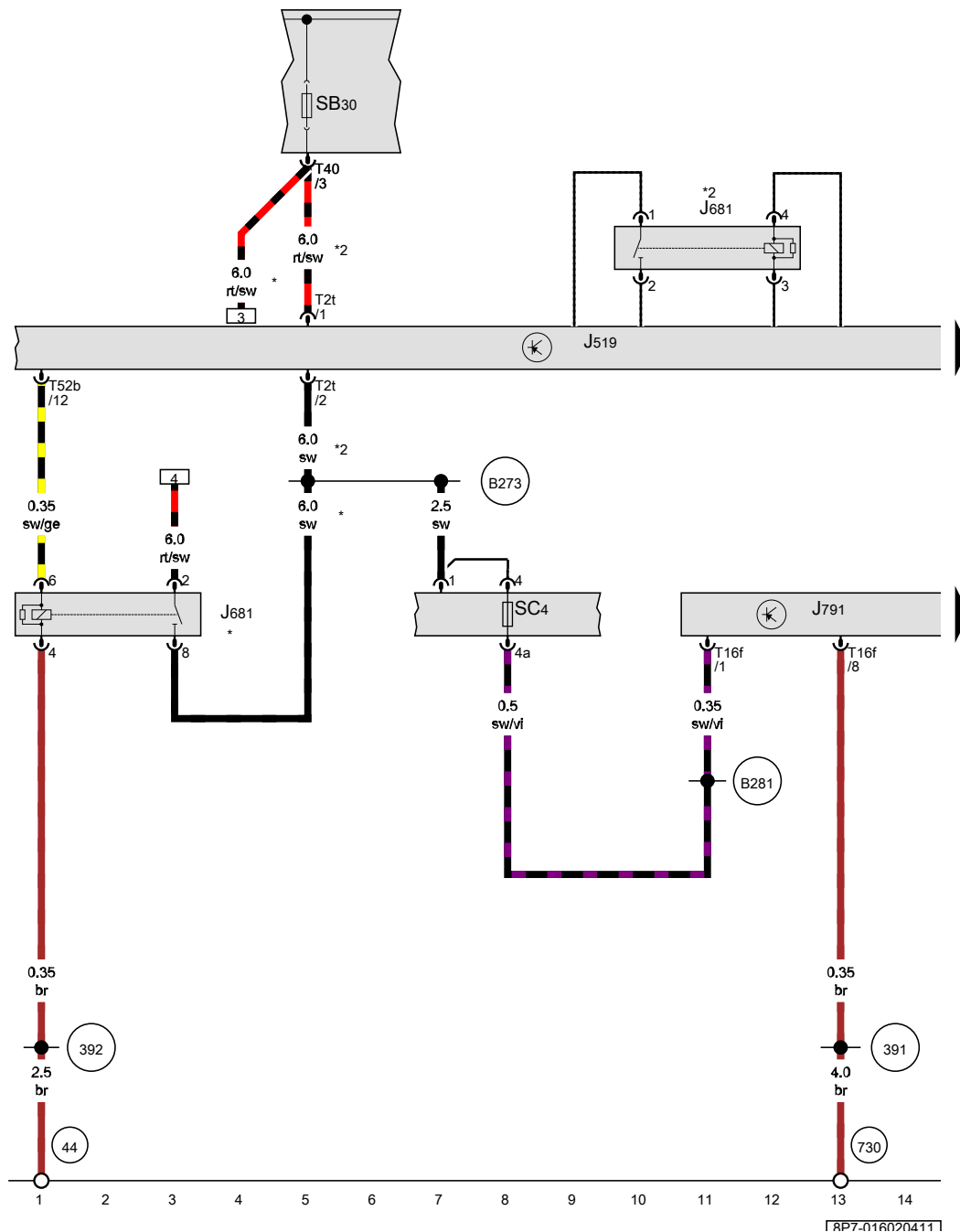


Parking aid (PDC) with park assist steering (Park Assist)

From May 2008



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Onboard supply control unit, Terminal 15 voltage supply relay 2, Park assist steering control unit

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J791 Park assist steering control unit
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16f 16-pin connector
- T40 40-pin connector
- T52b 52-pin connector

44 Earth point, lower part of left A-pillar

391 Earth connection 26, in main wiring harness

392 Earth connection 27, in main wiring harness

730 Earth point 1, on right rear wheel housing

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B273 Positive connection (15), in main wiring harness

B281 Positive connection 5 (15a) in main wiring harness

* From May 2009

*2 Up to April 2009

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- rs = pink

Parking aid button, Park assist steering button, Onboard supply control unit, Park assist steering control unit

E266 Parking aid button
E581 Park assist steering button
J519 Onboard supply control unit
J791 Park assist steering control unit
T10ac 10-pin connector
T12c 12-pin connector
T16f 16-pin connector
T52b 52-pin connector

388 Earth connection 23, in main wiring harness

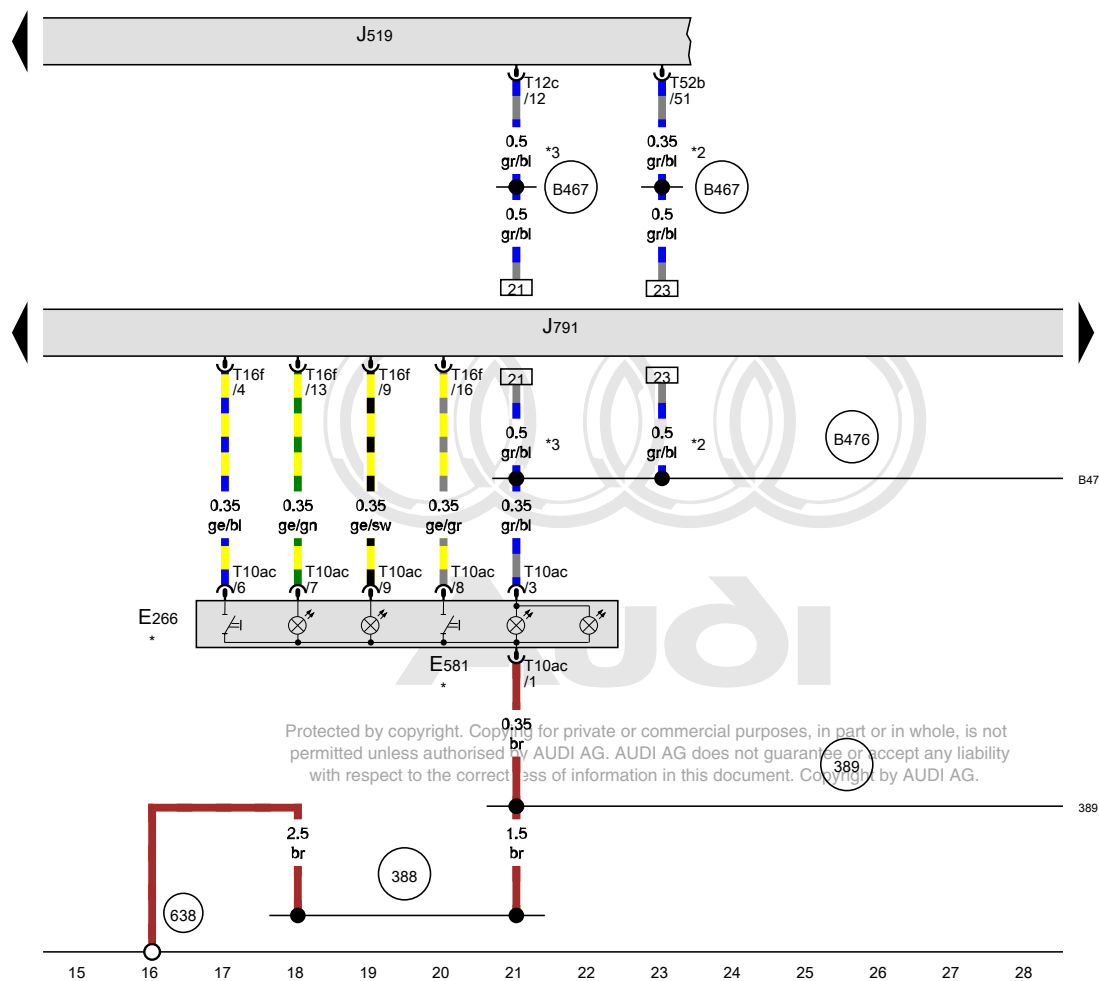
389 Earth connection 24, in main wiring harness

638 Earth point, on right A-pillar

B467 Connection 3, in main wiring harness

B476 Connection 12, in main wiring harness

* gradual introduction
*2 From May 2009
*3 Up to April 2009



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Parking aid button, Park assist steering button, Data bus diagnostic interface, Park assist steering control unit

E266 Parking aid button
E581 Park assist steering button
J533 Data bus diagnostic interface
J791 Park assist steering control unit
T16f 16-pin connector
T20d 20-pin connector

389 Earth connection 24, in main wiring harness

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B384 Connection 2 (powertrain CAN bus, high), in main wiring harness

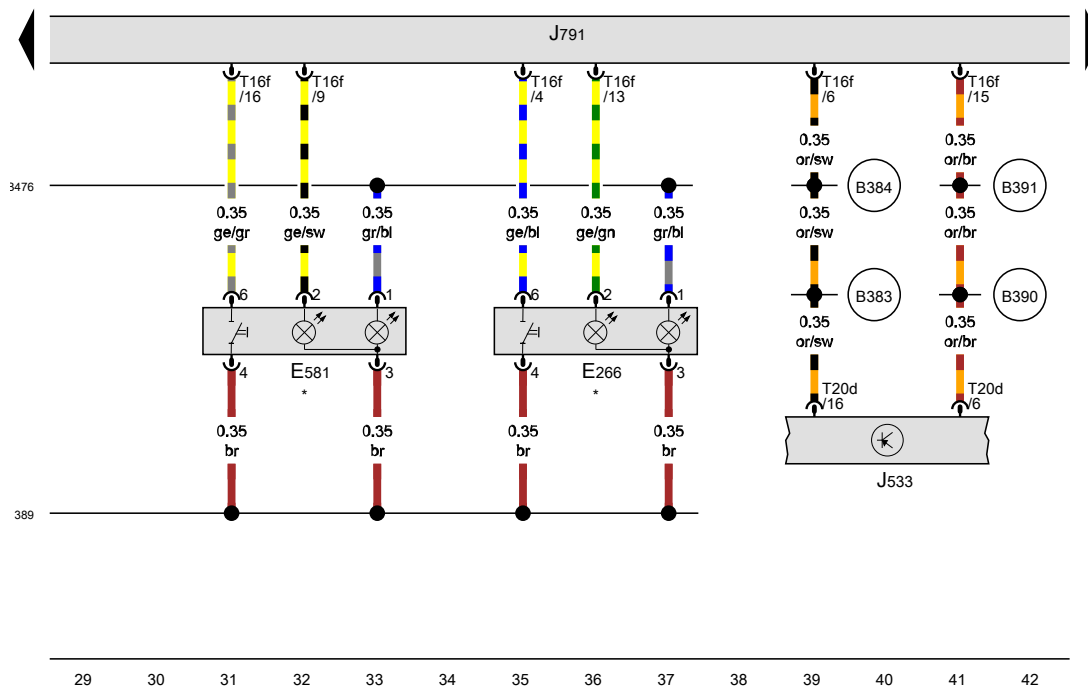
B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

B476 Connection 12, in main wiring harness

* Gradually discontinued

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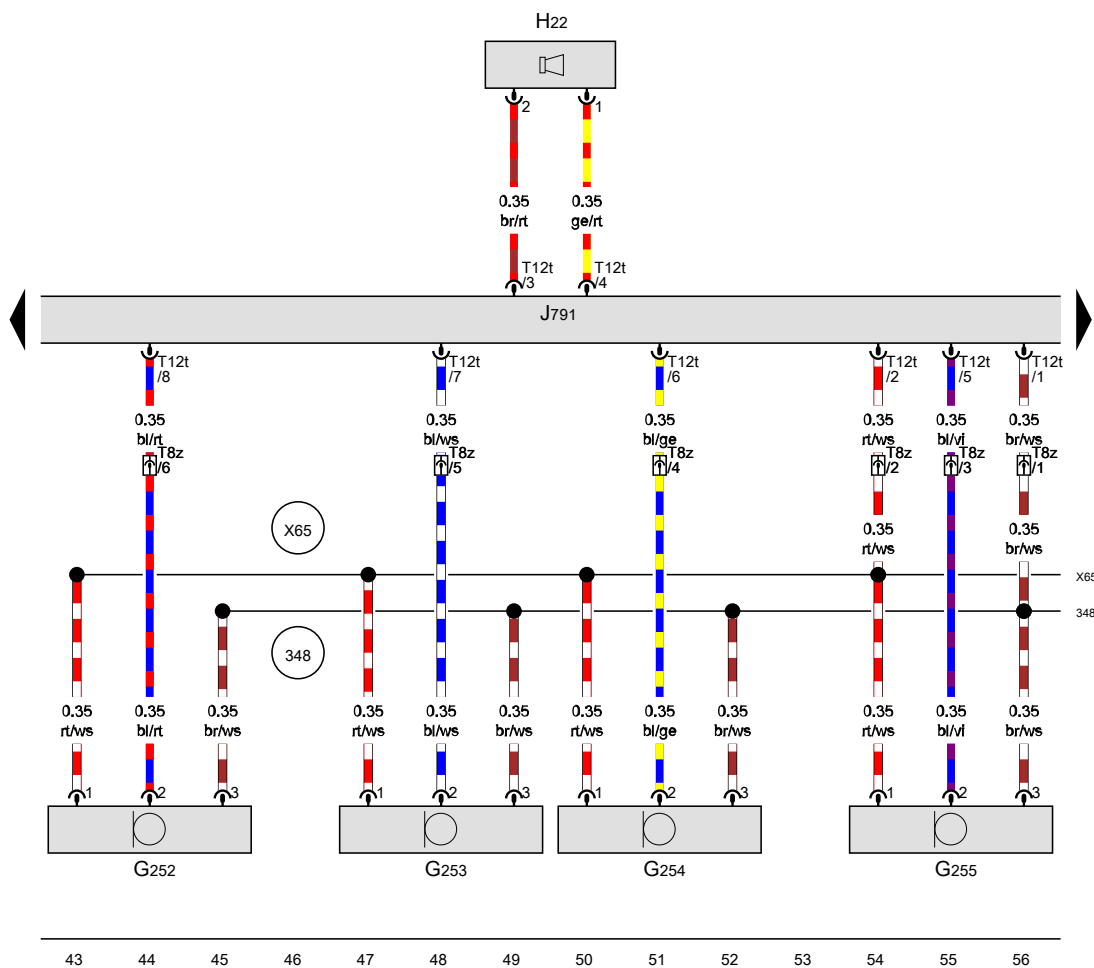
[AP7-016040411]

Front right parking aid sender, Front centre right parking aid sender, Front centre left parking aid sender, Front left parking aid sender, Park assist steering control unit

- G252 Front right parking aid sender
- G253 Front centre right parking aid sender
- G254 Front centre left parking aid sender
- G255 Front left parking aid sender
- H22 Front parking aid warning buzzer
- J791 Park assist steering control unit
- T8z 8-pin connector
- T12t 12-pin connector

348 Earth connection (parking aid), in front bumper wiring harness

X65 Connection (parking aid), in front bumper wiring harness



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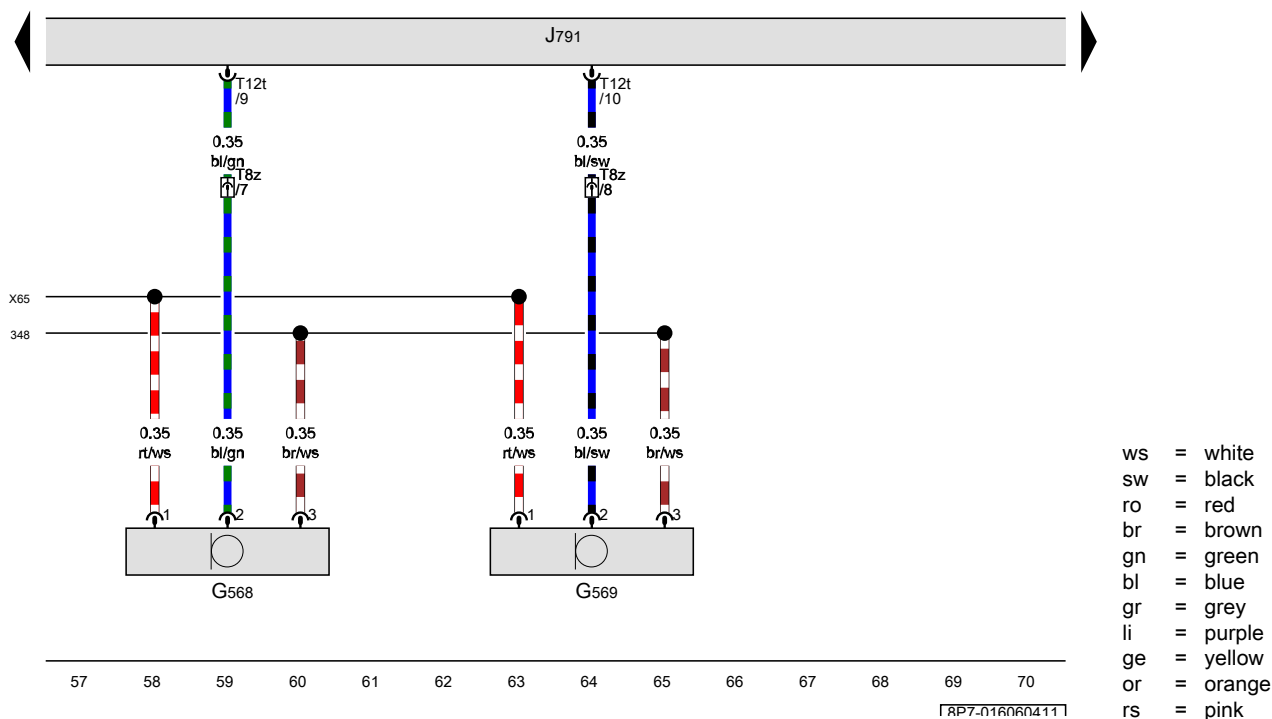


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Front left sender for park assist steering on left side of vehicle, Front right sender for park assist steering on right side of vehicle, Park assist steering control unit

- G568 Front left sender for park assist steering on left side of vehicle
- G569 Front right sender for park assist steering on right side of vehicle
- J791 Park assist steering control unit
- T8z 8-pin connector
- T12t 12-pin connector

- 348 Earth connection (parking aid), in front bumper wiring harness
- X65 Connection (parking aid), in front bumper wiring harness



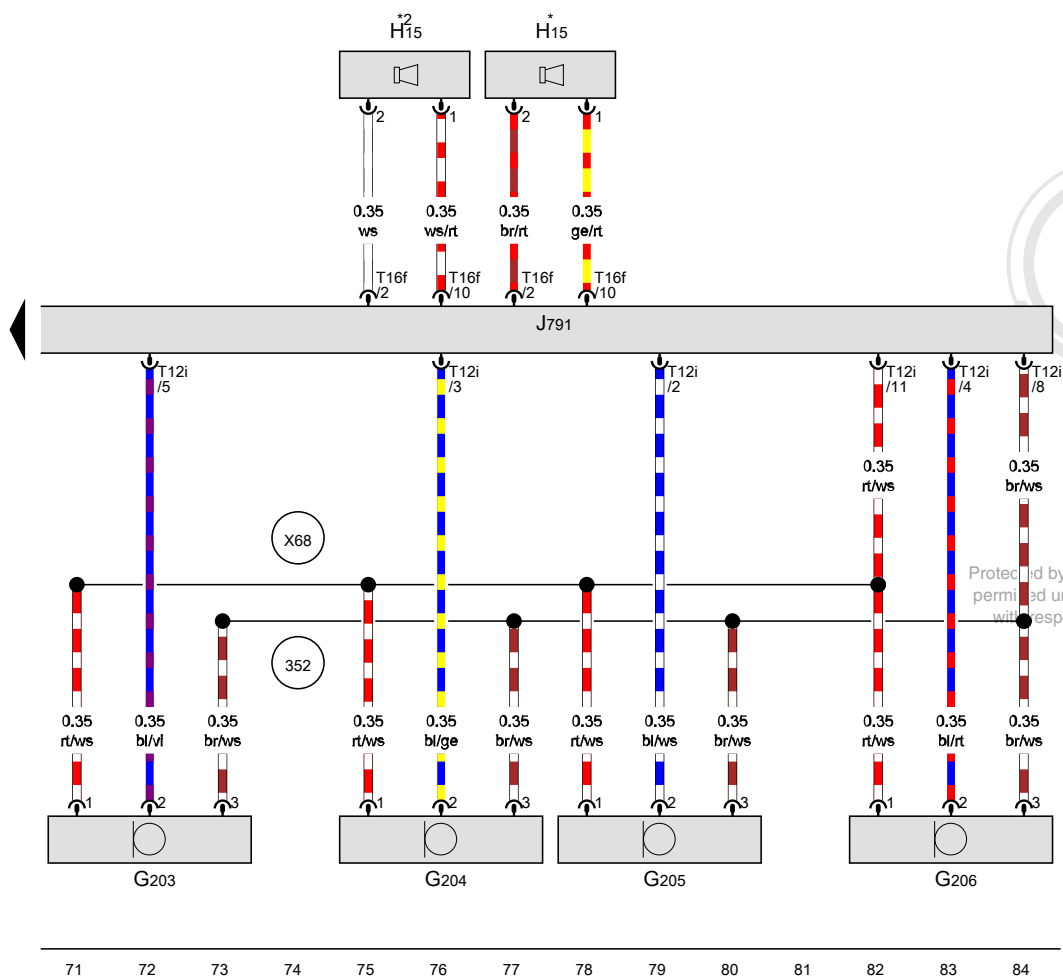
Rear left parking aid sender, Rear centre left parking aid sender, Rear centre right parking aid sender, Rear right parking aid sender, Park assist steering control unit

- G203 Rear left parking aid sender
- G204 Rear centre left parking aid sender
- G205 Rear centre right parking aid sender
- G206 Rear right parking aid sender
- H15 Rear parking aid warning buzzer
- J791 Park assist steering control unit
- T12i 12-pin connector
- T16f 16-pin connector

352 Earth connection (parking aid), in rear bumper wiring harness

X68 Positive connection (parking aid), in rear bumper wiring harness

* Gradually discontinued
*2 gradual introduction



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RP7-016070411



Air conditioner with automatic regulation

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

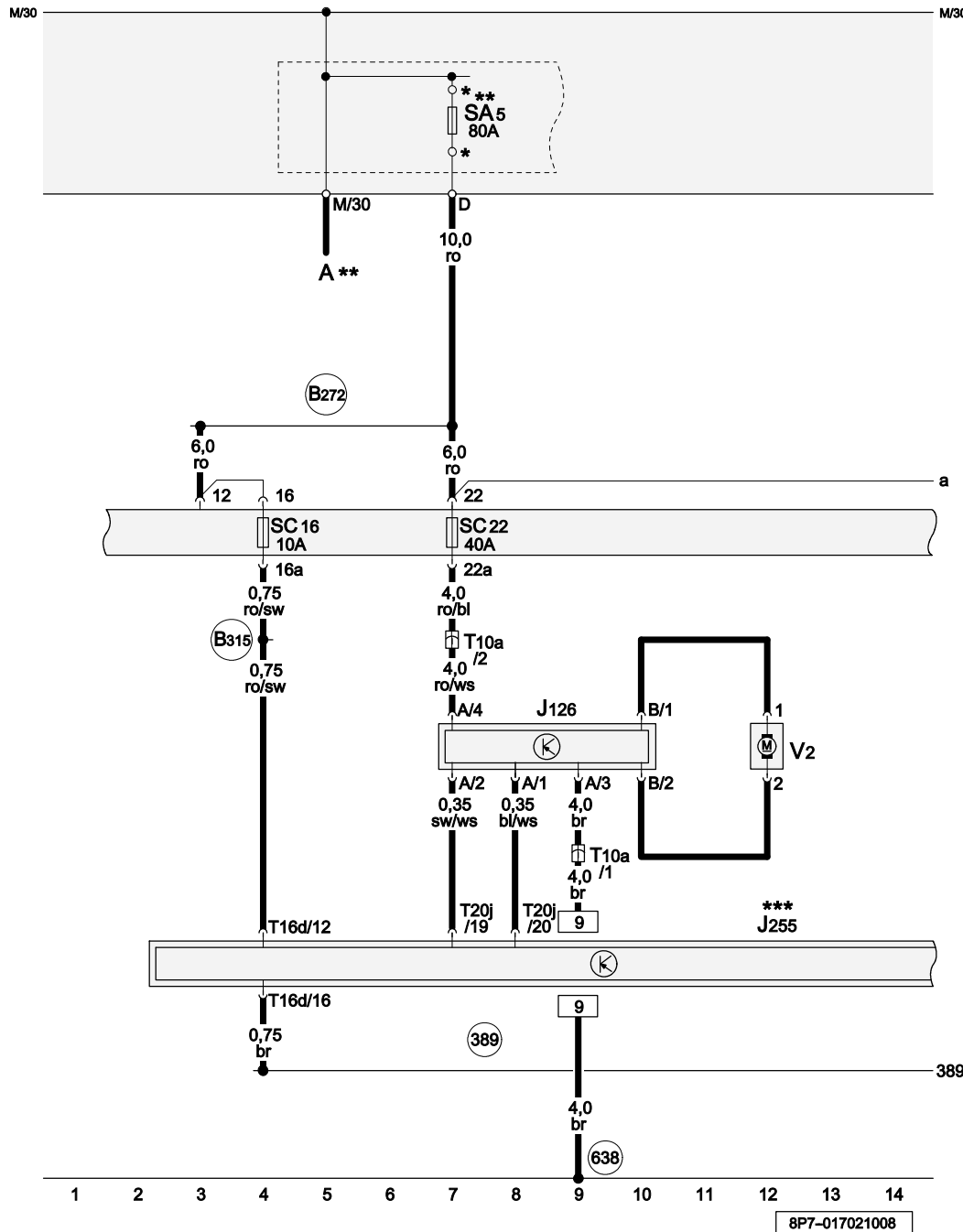
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fresh air blower control unit, fuses on fuse holder

- J126 Fresh air blower control unit
- J255 Climatronic control unit
- SA5 Fuse 5 on fuse holder A
- SC16 Fuse 16 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- T10a 10-pin connector, black, behind the glove compartment
- T16d 16-pin connector, black (connector D)
- T20j 20-pin connector, red (connector B)
- V2 Fresh air blower

389 Earth connection 24, in main wiring harness

638 Earth point, right A-pillar

B272 Positive connection (30), in main wiring harness

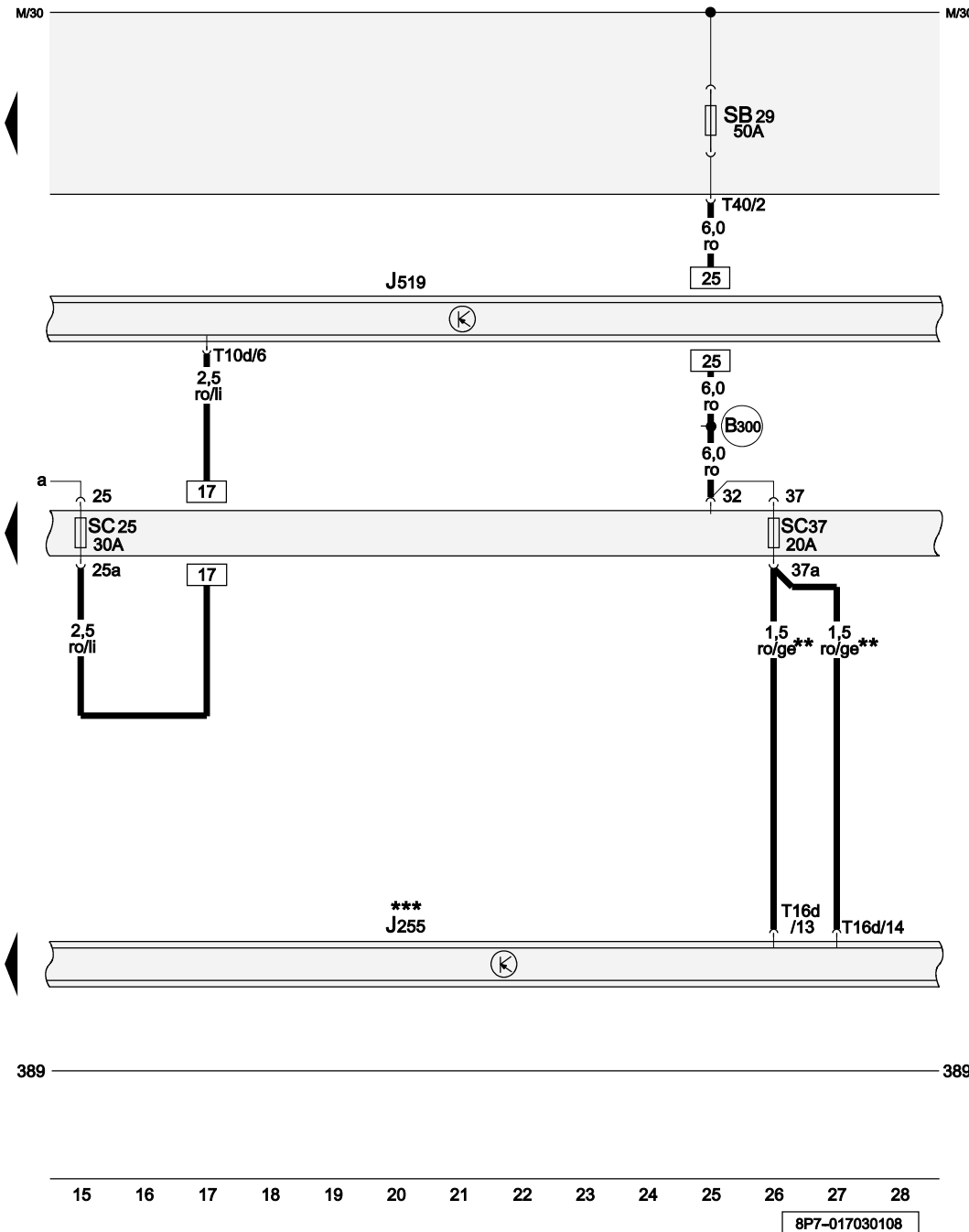
B315 Positive connection 1 (30a), in main wiring harness

* Screw connection, is dropped from November 2008
 ⇒ applicable Current Flow Diagram for models with battery in engine compartment

*** operating and display unit for air conditioning system/Climatronic

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Fuses on fuse holder

- J255 Climatronic control unit
- J519 Onboard supply control unit
- SB29 Fuse 29 on fuse holder B
- SC25 Fuse 25 on fuse holder C
- SC37 Fuse 37 on fuse holder C
- T10d 10-pin connector, black (connector K)
- T16d 16-pin connector, black (connector D)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

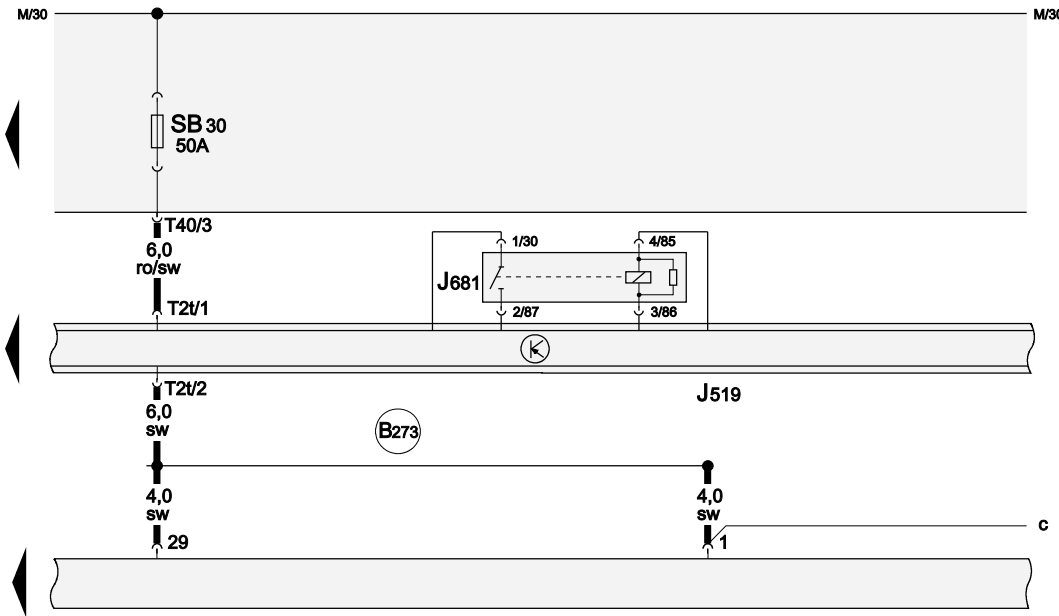
B300 Positive connection 4 (30), in main wiring harness

** for models with seat heating only

*** operating and display unit for air conditioning system/Climatronic

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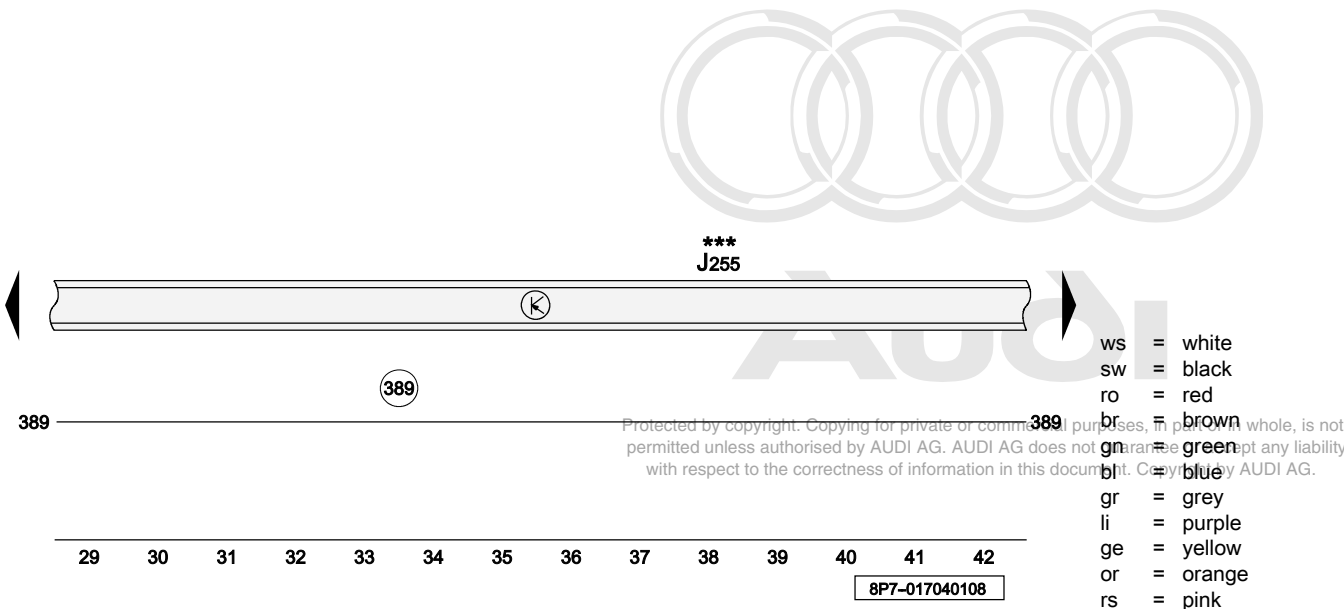
Terminal 15 voltage supply relay, fuses on fuse holder

- J255 Climatronic control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector, black (connector L)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

389 Earth connection 24, in main wiring harness

B273 Positive connection (15), in main wiring harness

*** operating and display unit for air conditioning system/Climatronic





High pressure sender, air quality sensor

- G65 High pressure sender
- G238 Air quality sensor
- J255 Climatronic control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)

638 Earth point, right A-pillar

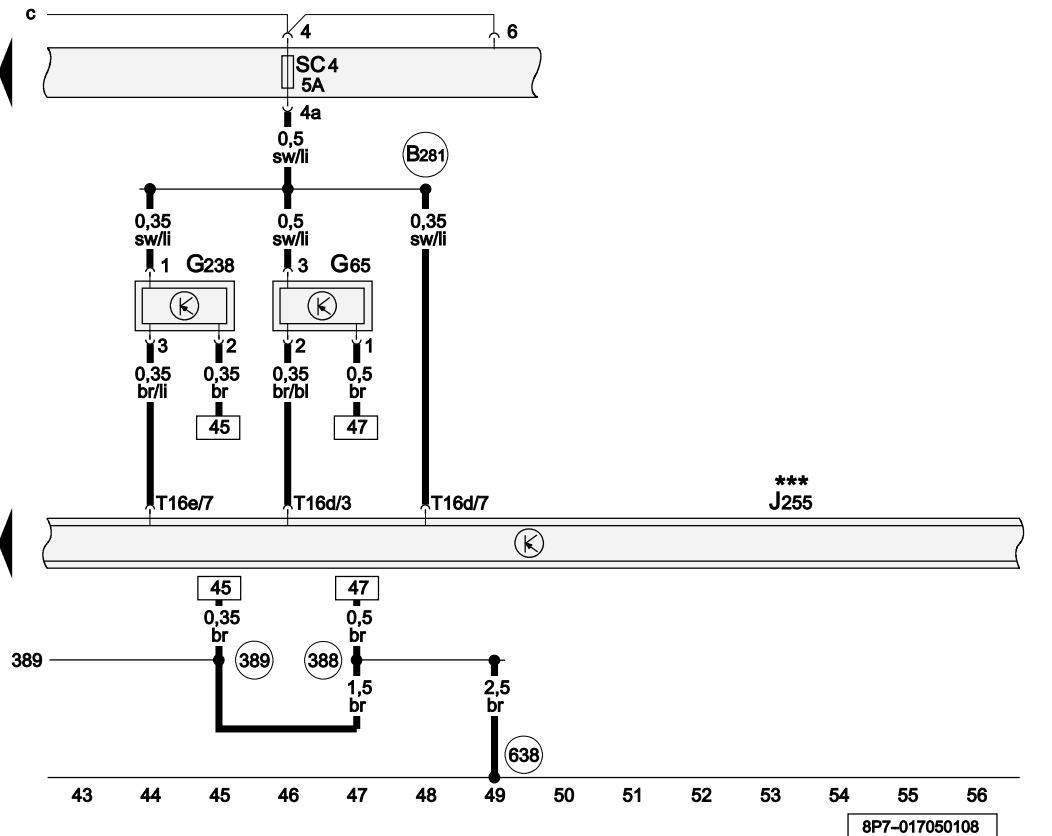
388 Earth connection 23, in main wiring harness

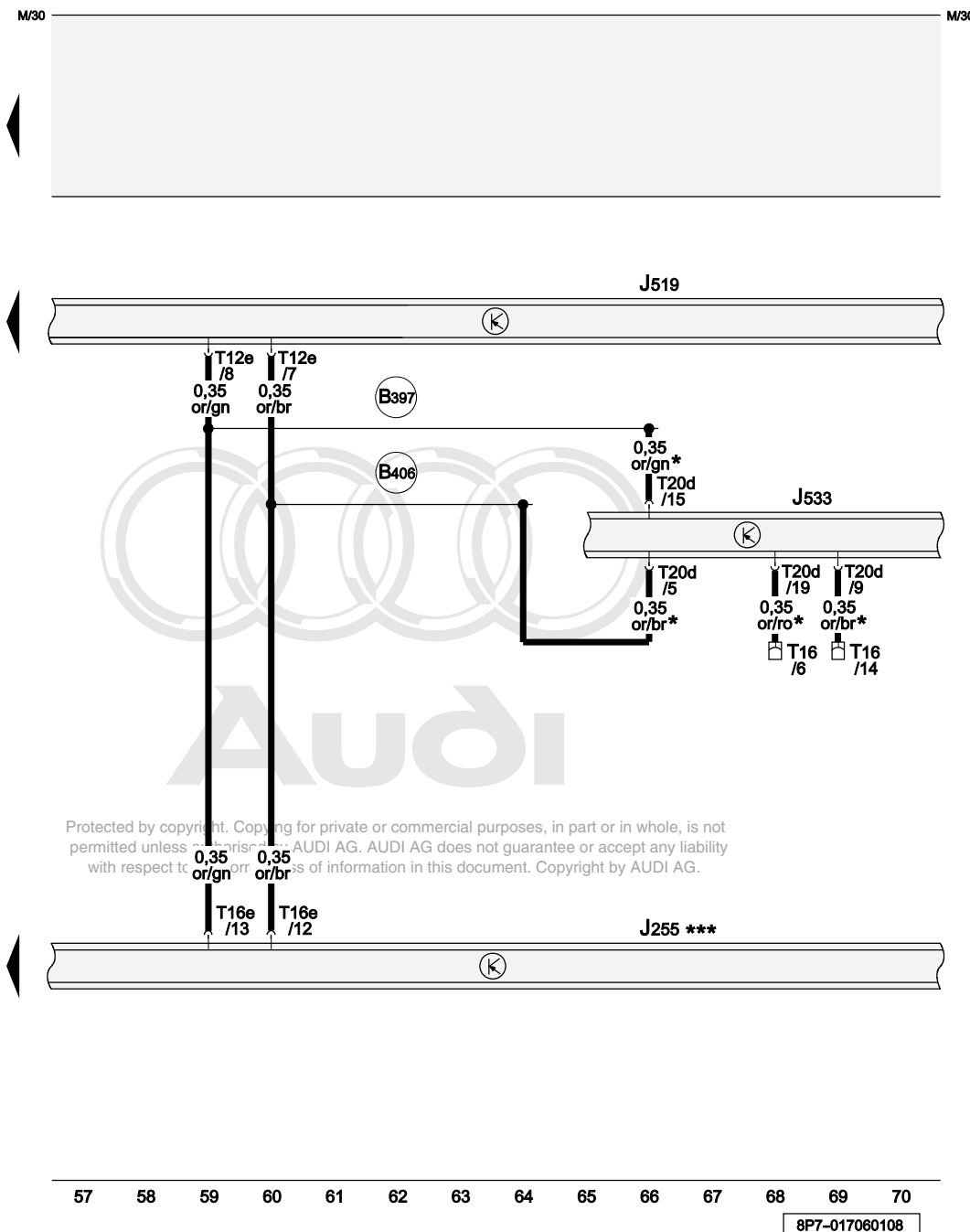
389 Earth connection 24, in main wiring harness

B281 Positive connection 5 (15a), in main wiring harness

*** operating and display unit for air conditioning system/Climatronic

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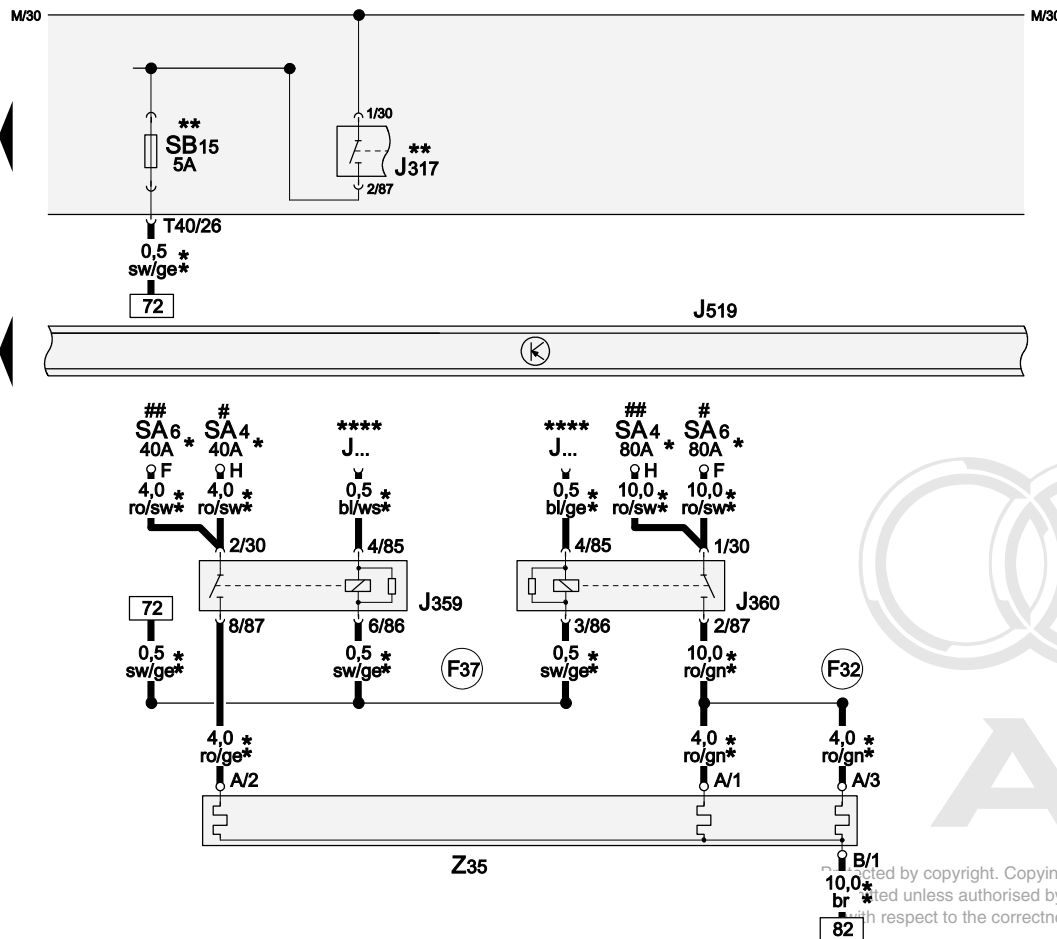




Convenience CAN bus

- J255 Climatronic control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- T12e 12-pin connector, black (connector G)
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T16e 16-pin connector, brown (connector C)
- T20d 20-pin connector, black (connector A)
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * ⇒ applicable Current Flow Diagram: diagnostic connector operating and display unit for air conditioning system/Climatronic
- ***

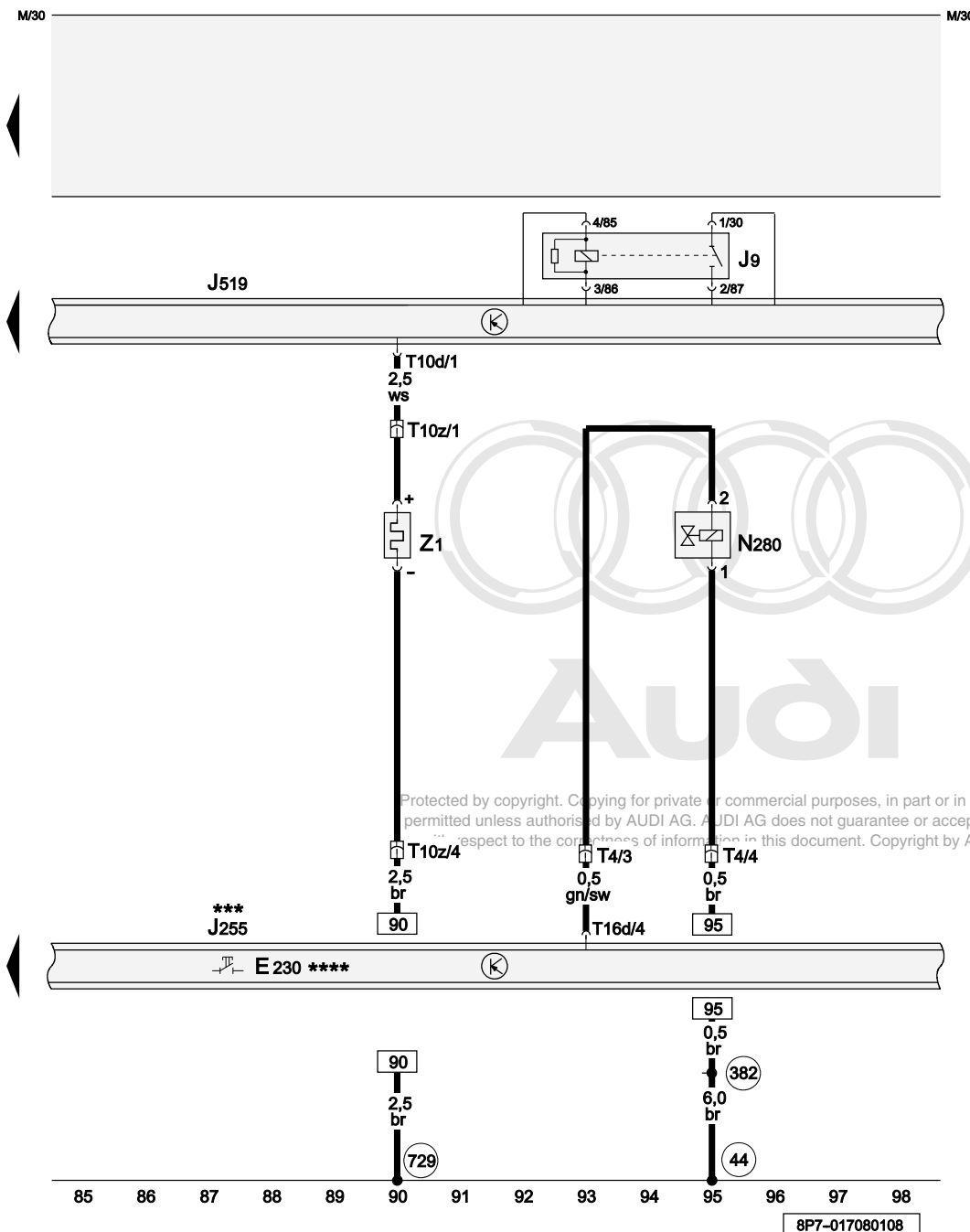
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Auxiliary air heater

- J... Engine control units
- J255 Climatronic control unit
- J317 Terminal 30 voltage supply relay
- J359 Low heat output relay
- J360 High heat output relay
- J519 Onboard supply control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- Z35 Auxiliary heater element
- 639 Earth point, left A-pillar
- F32 Connection (glow plugs, coolant) in diesel direct injection system wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models with diesel engines only
- *** operating and display unit for air conditioning system/Climatronic
- **** ⇒ applicable engine Current Flow Diagram
- # is dropped from November 2008
- ## applicable from November 2008

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



Heated rear window relay, air conditioning system compressor regulating valve

- E230 Heated rear window button
- J9 Heated rear window relay
- J255 Climatronic control unit
- J519 Onboard supply control unit
- N280 Air conditioning system compressor regulating valve
- T4 4-pin connector, black, in front left engine compartment
- T10d 10-pin connector, black (connector K)
- T10z 10-pin connector, black, behind the left rear light
- T16d 16-pin connector, black (connector D)
- Z1 Heated rear window
- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 729 Earth point, on rear left wheel housing
- *** operating and display unit for air conditioning system/Climatronic
- **** Operation for Z1 via convenience CAN bus

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

8P7-017080108



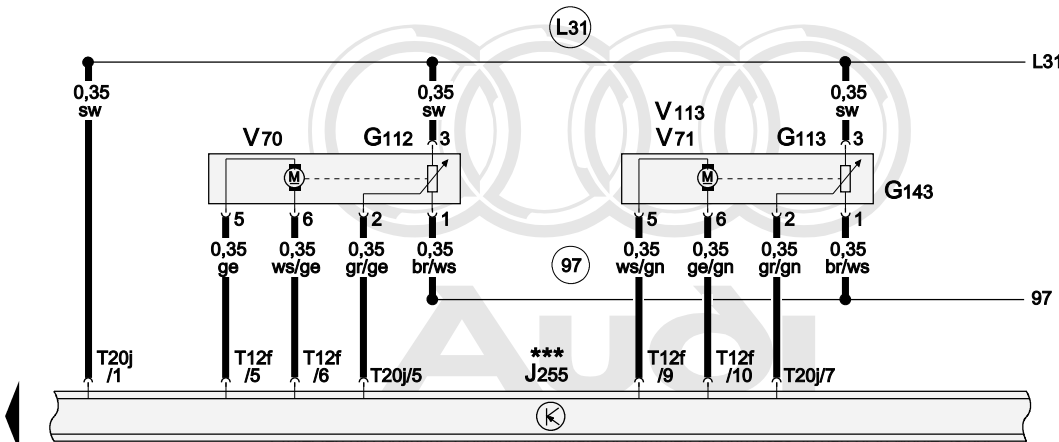
Central flap control motor, air flow flap control motor, air recirculation flap control motor

- G112 Central flap control motor potentiometer
- G113 Air flow flap control motor potentiometer
- G143 Air recirculation flap control motor potentiometer
- J255 Climatronic control unit
- T12f 12-pin connector, black (connector A)
- T20j 20-pin connector, red (connector B)
- V70 Central flap control motor
- V71 Air flow flap control motor
- V113 Air recirculation flap control motor

97 Earth connection 1, in air conditioning system wiring harness

L31 Connection (5V), in air conditioning system wiring harness

*** operating and display unit for air conditioning system/Climatronic



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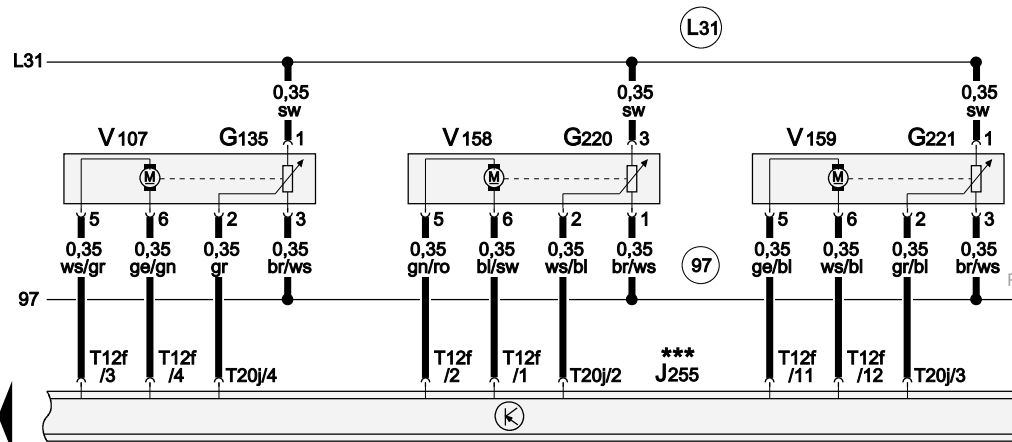
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink

99 100 101 102 103 104 105 106 107 108 109 110 111 112

8P7-017090108

**Defroster flap control motor, left temperature flap control motor, right temperature flap control motor**

- G135 Defroster flap control motor potentiometer
 - G220 Potentiometer for left temperature flap control motor
 - G221 Potentiometer for right temperature flap control motor
 - J255 Climatronic control unit
 - T12f 12-pin connector, black (connector A)
 - T20j 20-pin connector, red (connector B)
 - V107 Defroster flap control motor
 - V158 Left temperature flap control motor
 - V159 Right temperature flap control motor
- 97 Earth connection 1, in air conditioning system wiring harness
- L31 Connection (5V), in air conditioning system wiring harness
- *** operating and display unit for air conditioning system/Climatronic



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 ge = yellow
 or = orange
 rs = pink

113 114 115 116 117 118 119 120 121 122 123 124 125 126

8P7-017100108



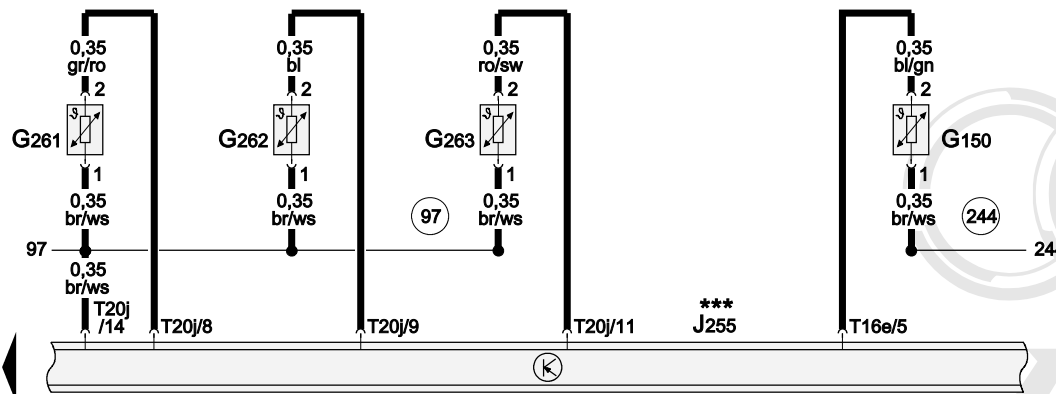
Vent temperature sender

- G150 Left vent temperature sender
- G261 Left footwell vent temperature sender
- G262 Right footwell vent temperature sender
- G263 Evaporator out-flow temperature sender
- J255 Climatronic control unit
- T16e 16-pin connector, brown (connector C)
- T20j 20-pin connector, red (connector B)

97 Earth connection 1, in air conditioning system wiring harness

244 Earth connection (sender earth), in Climatronic wiring harness

*** operating and display unit for air conditioning system/Climatronic



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- bl = blue
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127 128 129 130 131 132 133 134 135 136 137 138 139 140

8P7-017110108

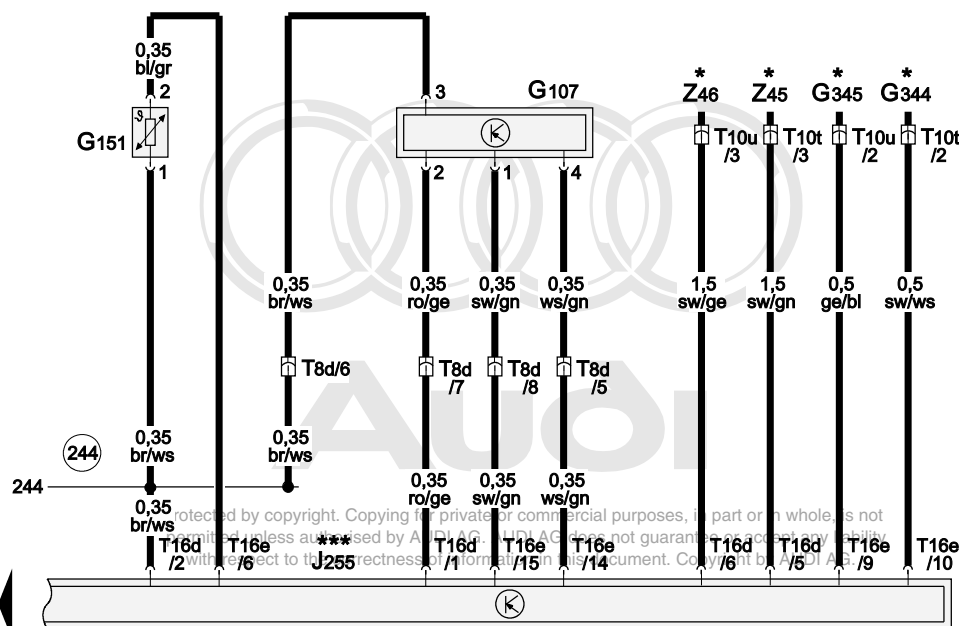
M/30 M/30

Sunlight penetration photosensor, right vent temperature sender, front seat temperature sender

- G107 Sunlight penetration photosensor
- G151 Right vent temperature sender
- G344 Front left seat temperature sender
- G345 Front right seat temperature sender
- J255 Climatronic control unit
- T8d 8-pin connector, black, behind centre console
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)
- Z45 Front left seat heating
- Z46 Front right seat heating

244 Earth connection (sender earth), in Climatronic wiring harness

- * see applicable Current Flow Diagram: seat heating
- *** operating and display unit for air conditioning system/Climatronic



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

141 142 143 144 145 146 147 148 149 150 151 152 153 154

8P7-017120108

Automatic anti-dazzle interior mirror

- ⇒ with Coming-Home
 - ⇒ without Coming-Home
- from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

- ⇒ List of Fitting Locations!

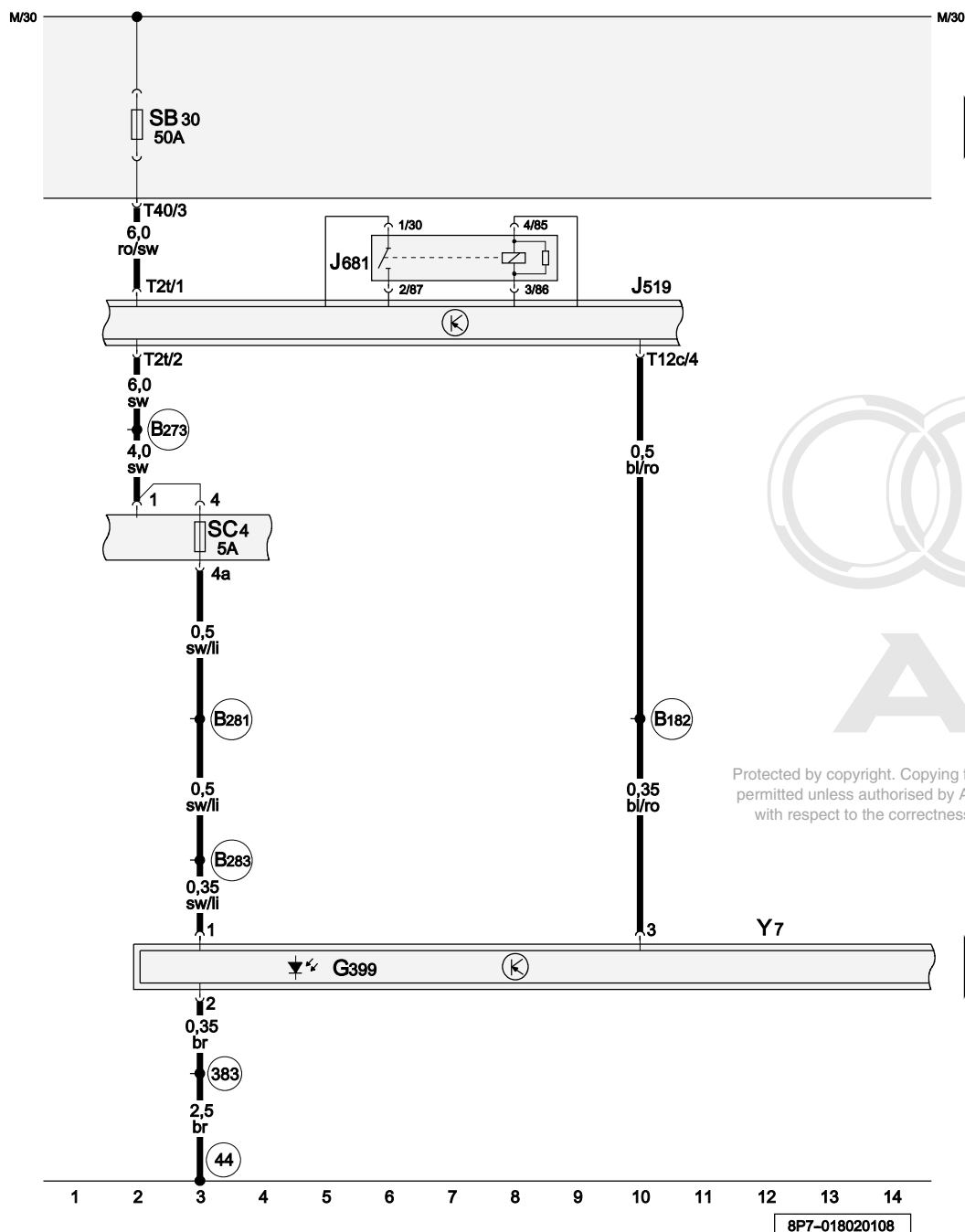
For information concerning

- ◆ Fault Finding Programs

- ⇒ guided fault finding



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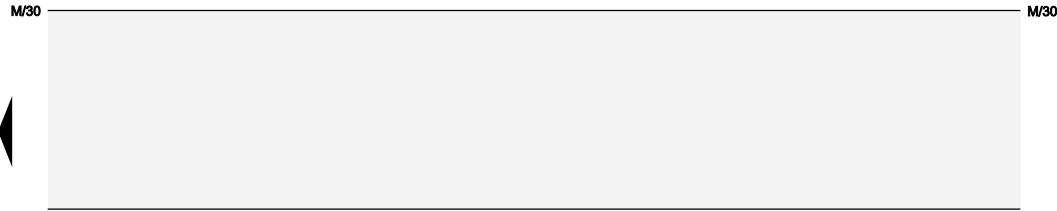


Fuses on fuse holder, terminal 15 voltage supply relay 2

- | | |
|------|---|
| G399 | Light detector sensor |
| J519 | Onboard supply control unit |
| J681 | Terminal 15 voltage supply relay 2 |
| SB30 | Fuse 30 on fuse holder B |
| SC4 | Fuse 4 on fuse holder C |
| T2t | 2-pin connector, black (connector L) |
| T12c | 12-pin connector, black (connector B) |
| T40 | 40-pin connector, black, on electronics box in engine compartment (connector J) |
| Y7 | Automatic anti-dazzle interior mirror |
| 44 | Earth point, lower part of left A-pillar |
| 383 | Earth connection 18, in main wiring harness |
| B182 | Connection (RL), in interior wiring harness |
| B273 | Positive connection (15), in main wiring harness |
| B281 | Positive connection 5 (15a), in main wiring harness |
| B283 | Positive connection 7 (15a), in main wiring harness |

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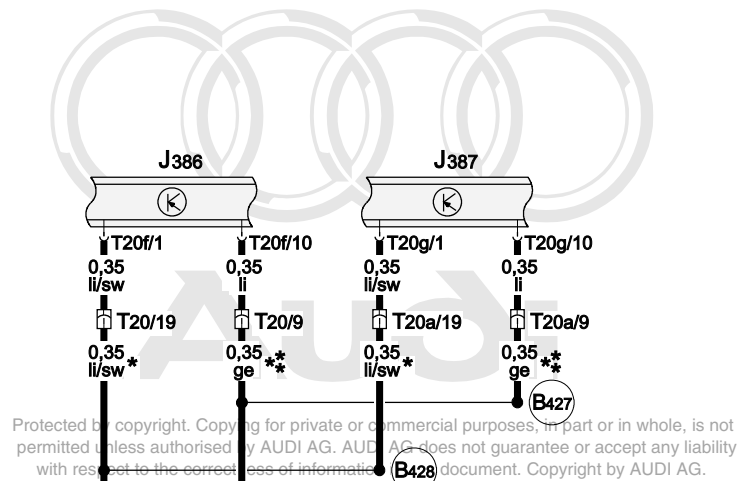
Door control units, automatic anti-dazzle interior mirror

- J386 Driver door control unit
- J387 Front passenger door control unit
- T20 20-pin connector, black, door A-pillar left
- T20a 20-pin connector, black, door A-pillar right
- T20f 20-pin connector, black (connector A)
- T20g 20-pin connector, black (connector A)
- Y7 Automatic anti-dazzle interior mirror

(B427) Connection 1 (mirror signal), in main wiring harness

(B428) Connection 2 (mirror signal), in main wiring harness

- * => applicable Current Flow Diagram: convenience system
- ** cable colour was modified from purple to yellow, phased-in modification



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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-018030108



Preparation for mobile telephone without hands-free system control unit (VDA interface)

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

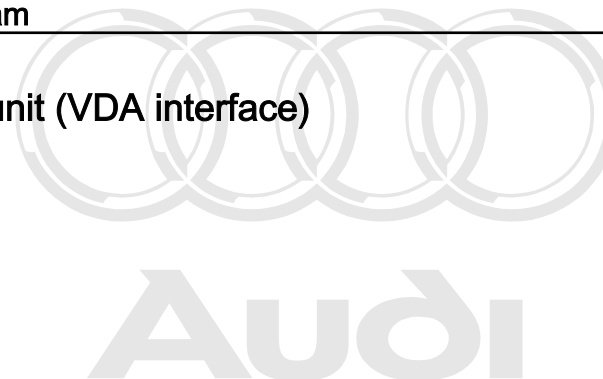
- ◆ Earth connections

⇒ List of Fitting Locations!

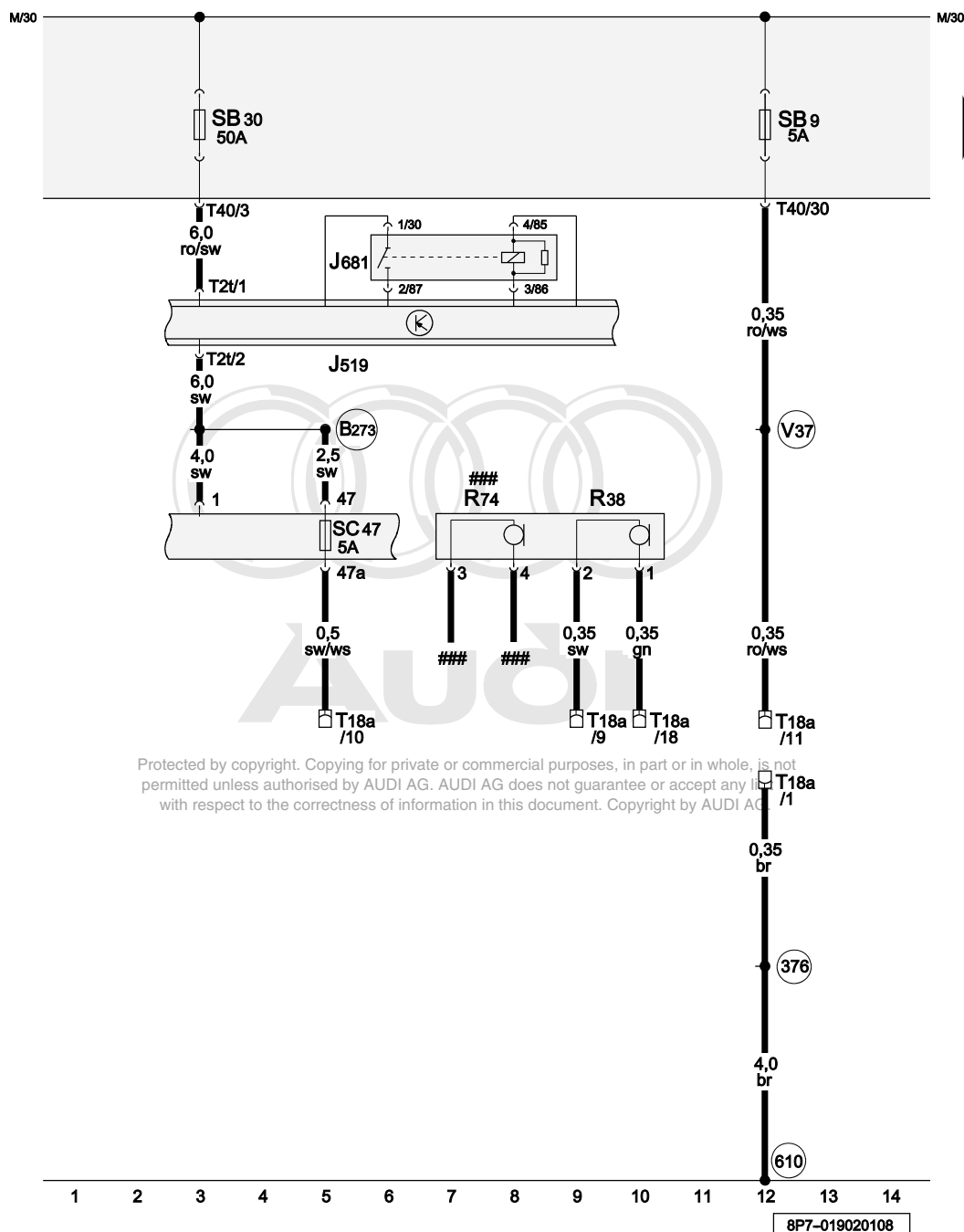
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Telephone microphone, terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- R38 Telephone microphone
- R74 Internal microphone
- SB9 Fuse 9 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC47 Fuse 47 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T18a 18-pin connector, near glove compartment (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

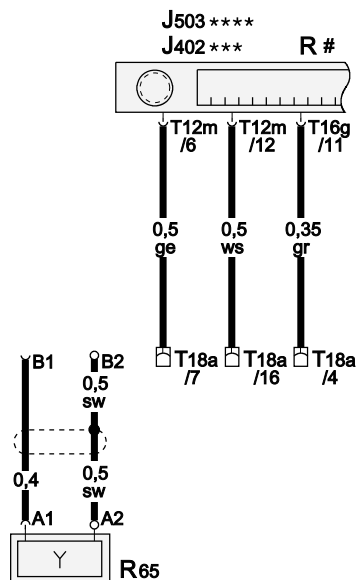
- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), under centre console, front
- B273 Positive connection (15), in main wiring harness
- V37 Positive connection (30), in communication wiring harness
- ### for models with Bose sound system only



M/30 M/30

Muting

- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation system
- R Radio
- R65 Telephone aerial
- T12m 12-pin connector, black (connector C, connector locking green)
- T16g 16-pin connector, black (connector D)
- T18a 18-pin connector, near glove compartment (connector A)
- *** for models with radio navigation system RNS-E only
- **** for models with radio navigation system RNS-low only
- # for models with radiogeneration II plus only



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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-019030108

Gas discharge headlights (bi-xenon) with automatic headlight range control, cornering light, LED daytime running lights

From March 2008



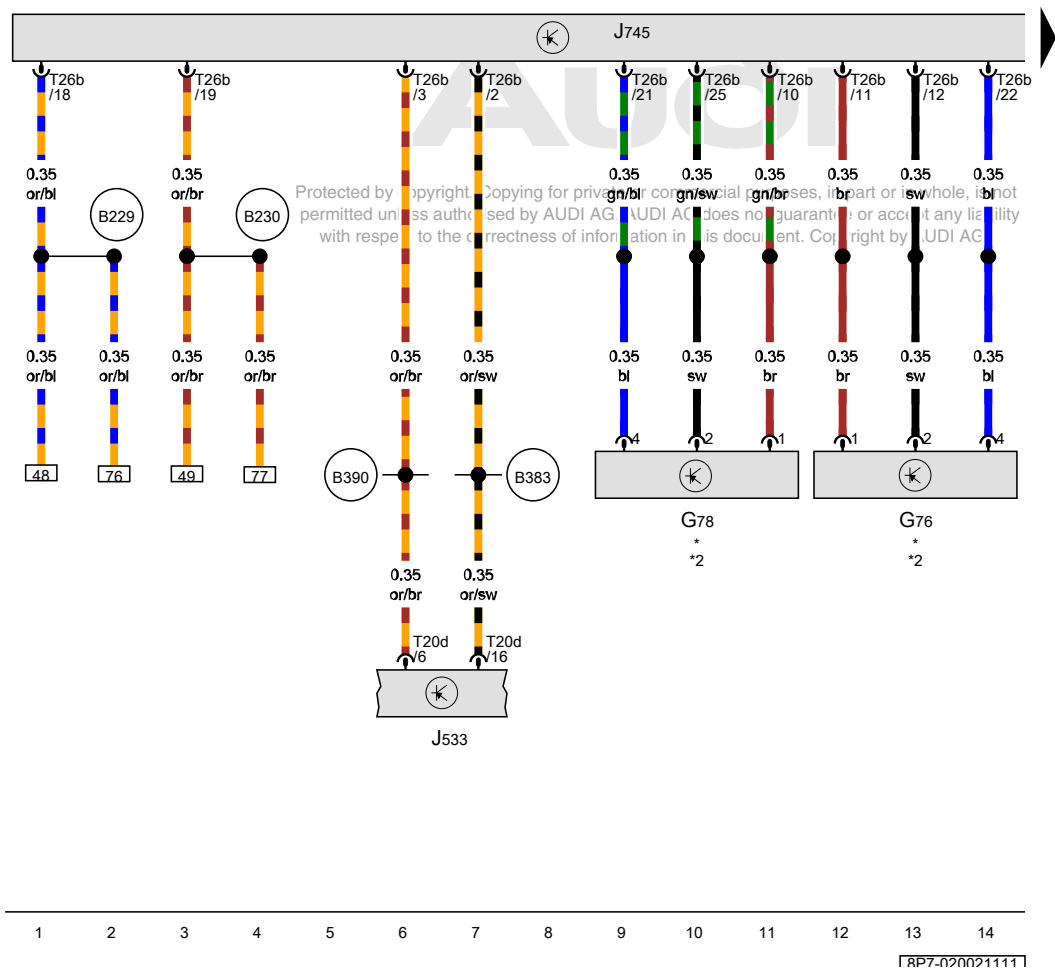
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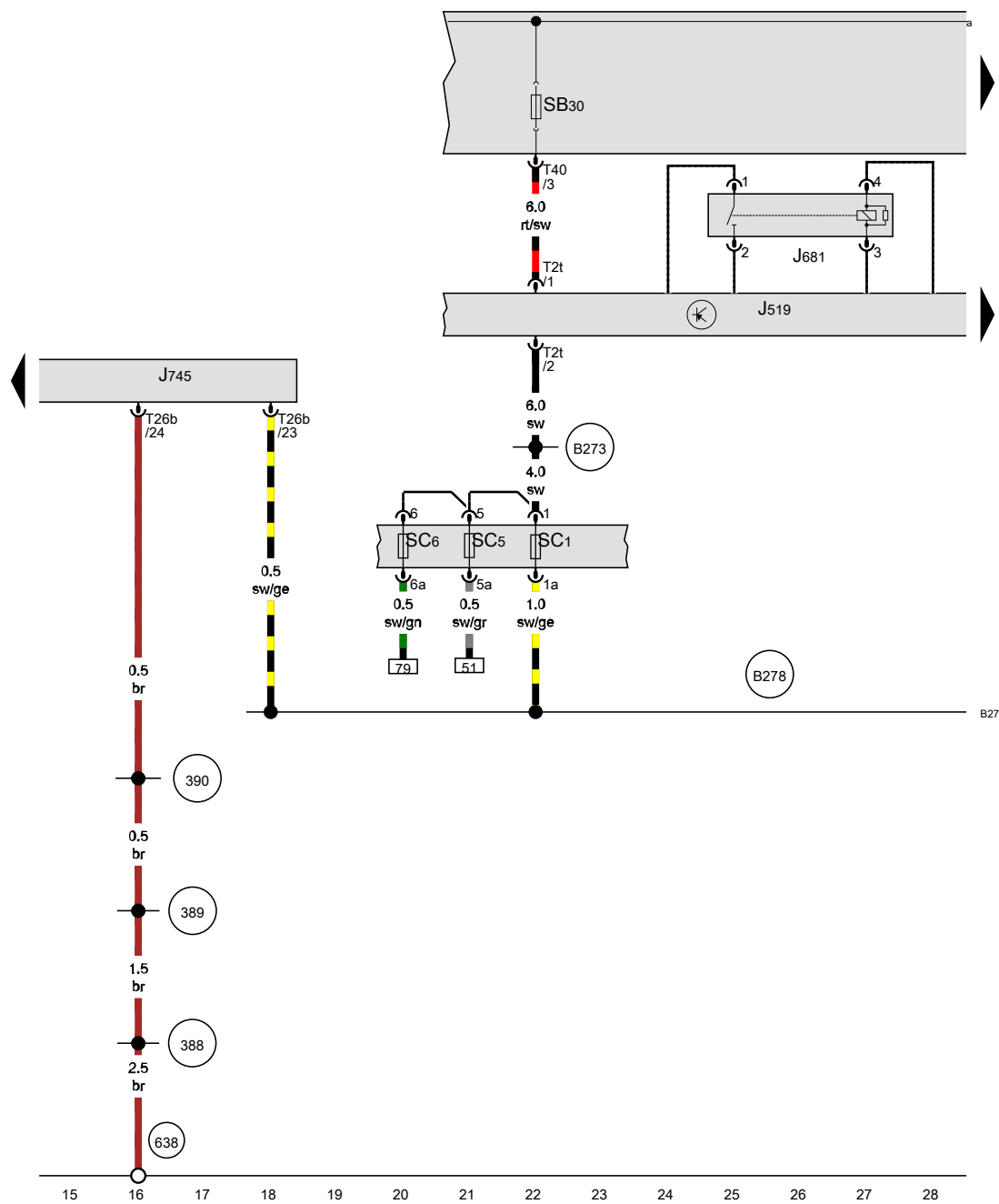
Rear left vehicle level sender, Front left vehicle level sender, Control unit for cornering light and headlight range control

- G76 Rear left vehicle level sender
- G78 Front left vehicle level sender
- J533 Data bus diagnostic interface
- J745 Control unit for cornering light and headlight range control
- T20d 20-pin connector
- T26b 26-pin connector

- (B229) Connection (high bus), in interior wiring harness
- (B230) Connection (low bus), in interior wiring harness
- (B383) Connection 1 (powertrain CAN bus, high), in main wiring harness
- (B390) Connection 1 (powertrain CAN bus, low), in main wiring harness

- * According to equipment
- *2 Only models with no electronic damping control



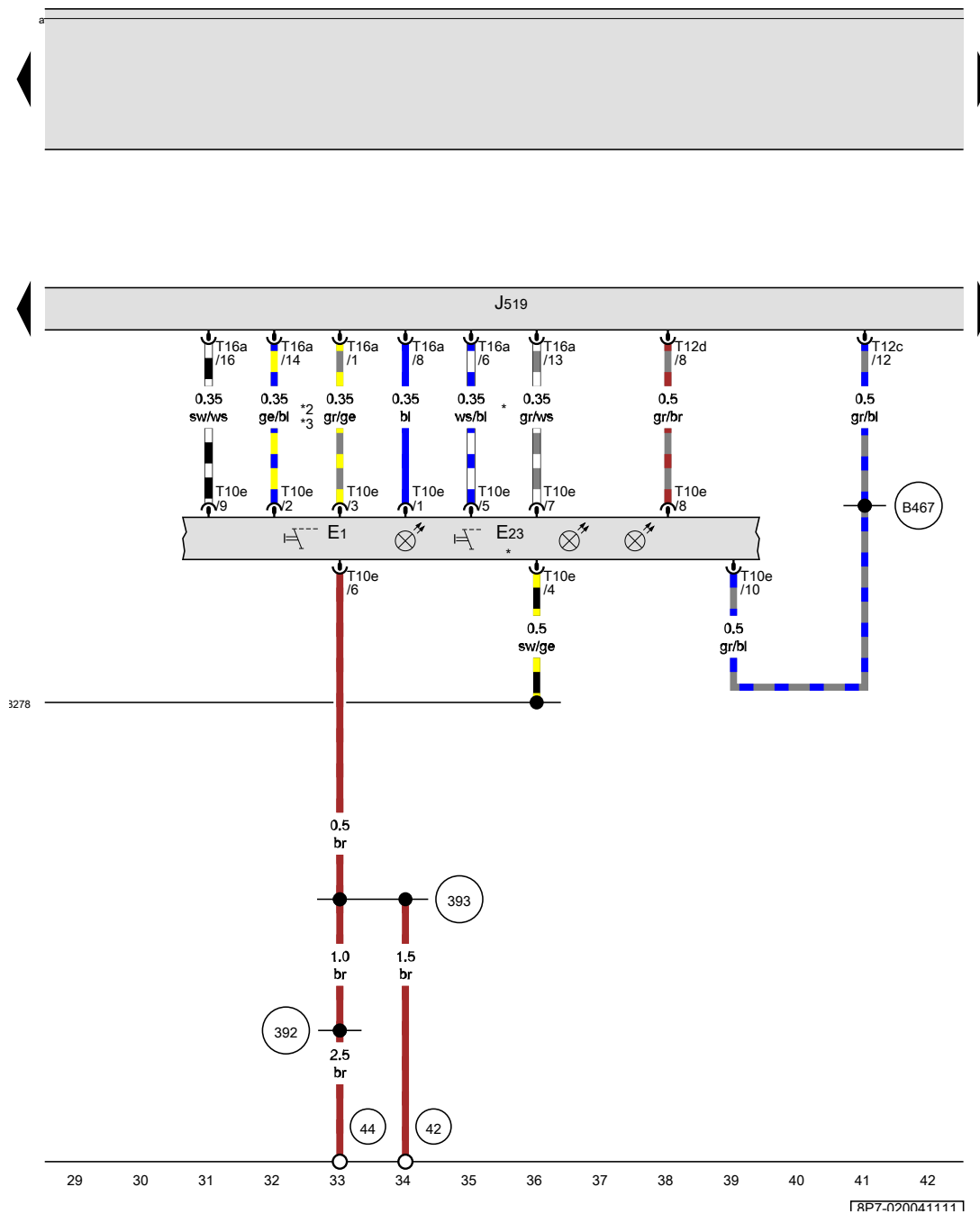


Onboard supply control unit, Terminal 15 voltage supply relay 2, Control unit for cornering light and headlight range control

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J745 Control unit for cornering light and headlight range control
- SC1 Fuse 1 on fuse holder C
- SC5 Fuse 5 on fuse holder C
- SC6 Fuse 6 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T26b 26-pin connector
- T40 40-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness

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Light switch, Front and rear fog light switch, Onboard supply control unit

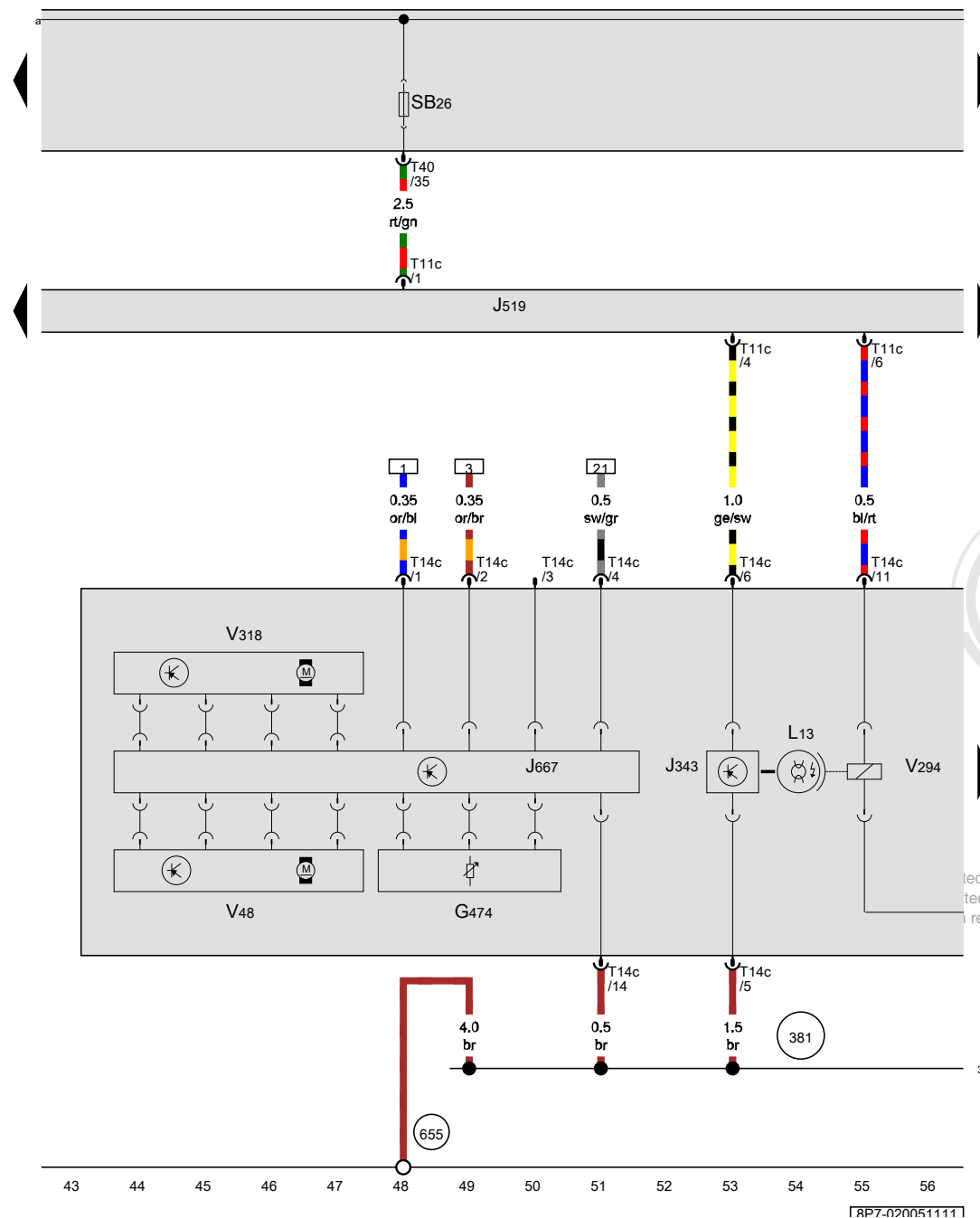
- E1 Light switch
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- T10e 10-pin connector
- T12c 12-pin connector
- T12d 12-pin connector
- T16a 16-pin connector

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- * Only models with fog lights
- *2 Only models with daytime running lights
- *3 Only models with automatic driving lights control



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- or = orange
- rs = pink



Onboard supply control unit, Output module for left headlight, Left gas discharge (xenon) bulb, Left headlight range control motor, Left dip beam screen motor, Left dynamic cornering light control motor

- G474 Left swivel module position sensor
- J343 Left gas discharge bulb control unit
- J519 Onboard supply control unit
- J667 Output module for left headlight
- L13 Left gas discharge (xenon) bulb
- SB26 Fuse 26 on fuse holder B
- T11c 11-pin connector
- T14c 14-pin connector
- T40 40-pin connector
- V48 Left headlight range control motor
- V294 Left dip beam screen motor
- V318 Left dynamic cornering light control motor

381 Earth connection 16, in main wiring harness

655 Earth point, on left headlight

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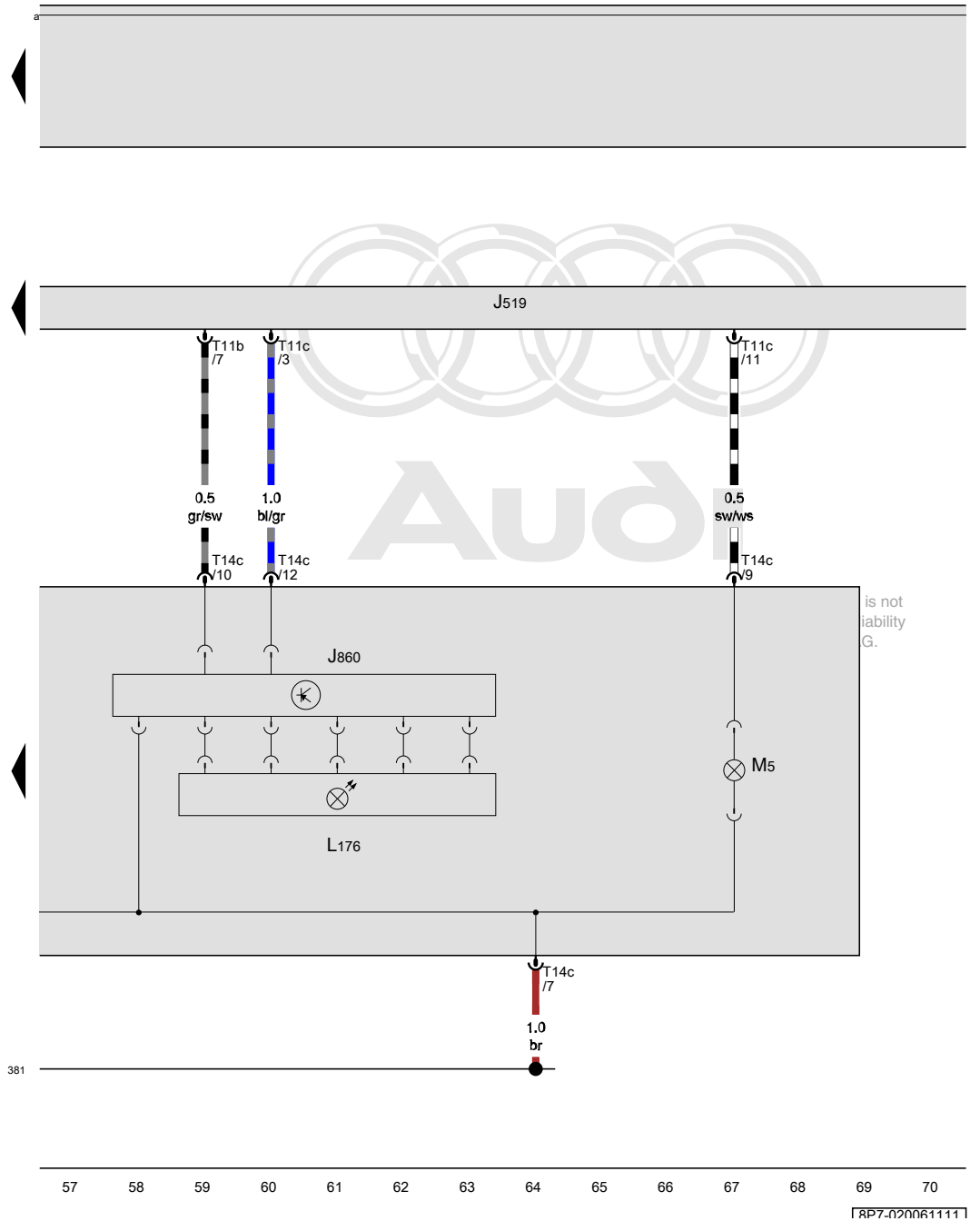
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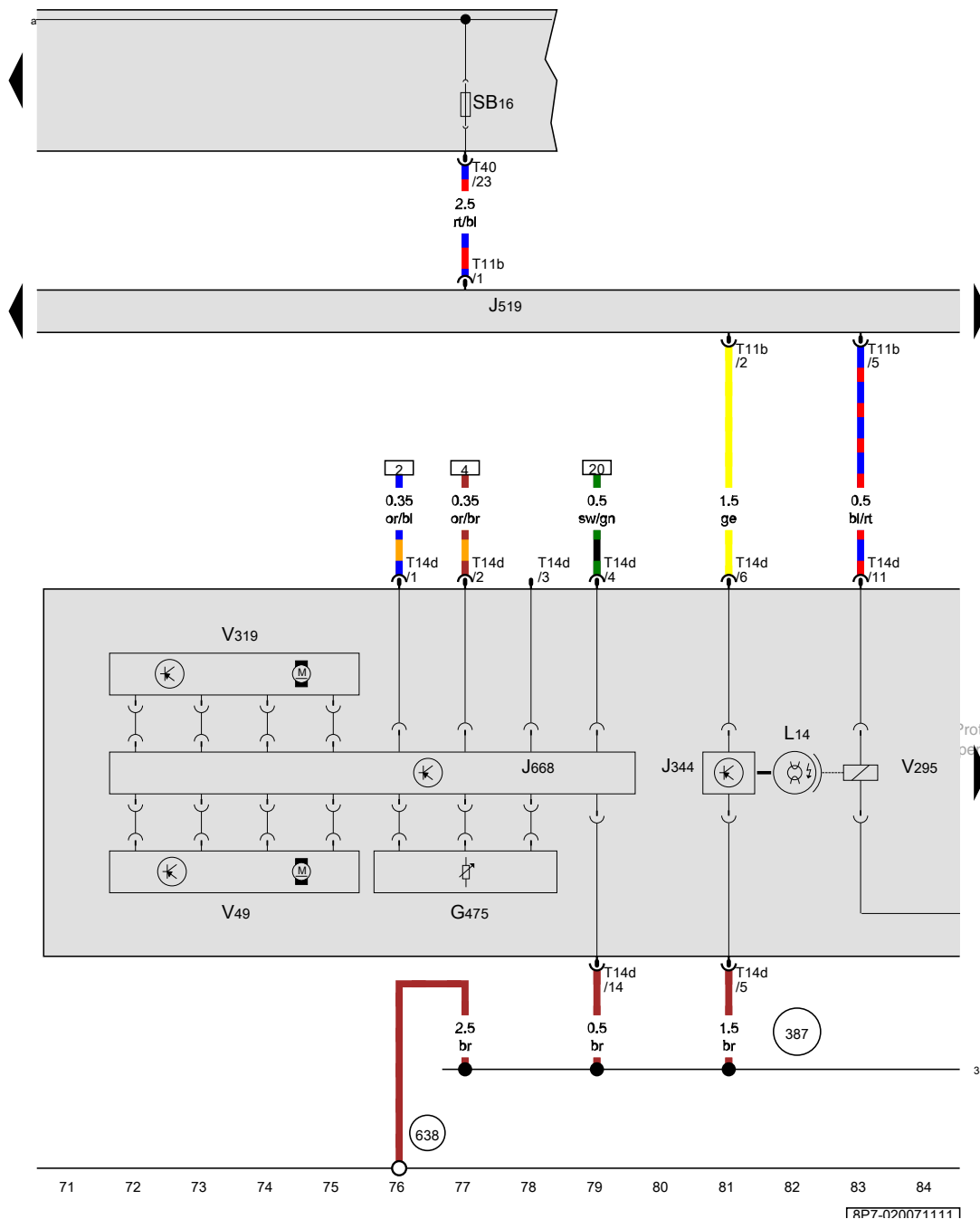
Onboard supply control unit, Left LED module for daytime running light and side light, Front left turn signal bulb

- J519 Onboard supply control unit
- J860 Control unit for left daytime running light and side light
- L176 Left LED module for daytime running light and side light
- M5 Front left turn signal bulb
- T11b 11-pin connector
- T11c 11-pin connector
- T14c 14-pin connector

381 Earth connection 16, in main wiring harness



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ro = red
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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink



Onboard supply control unit, Output module for right headlight, Right gas discharge (xenon) bulb, Right headlight range control motor, Right dip beam screen motor, Right dynamic cornering light control motor

- G475 Right swivel module position sensor
- J344 Right gas discharge bulb control unit
- J519 Onboard supply control unit
- J668 Output module for right headlight
- L14 Right gas discharge (xenon) bulb
- SB16 Fuse 16 on fuse holder B
- T11b 11-pin connector
- T14d 14-pin connector
- T40 40-pin connector
- V49 Right headlight range control motor
- V295 Right dip beam screen motor
- V319 Right dynamic cornering light control motor

- 387 Earth connection 22, in main wiring harness
- 638 Earth point, on right A-pillar

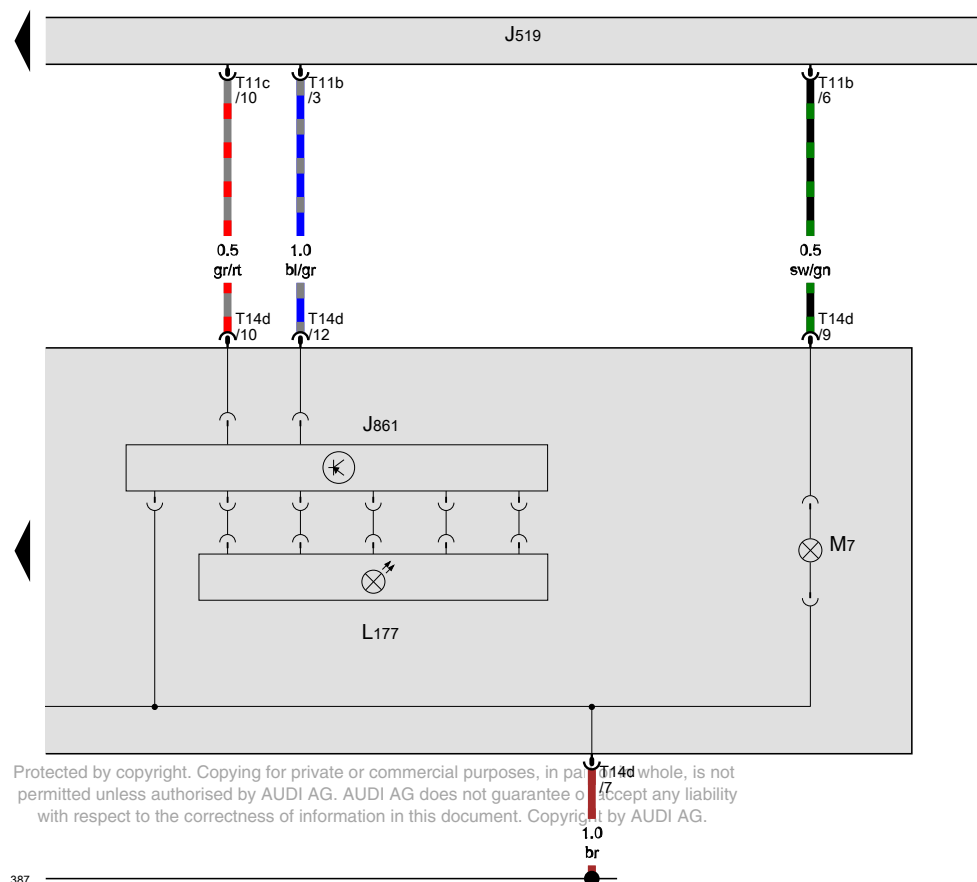
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Onboard supply control unit, Right LED module for daytime running light and side light, Front right turn signal bulb

- J519 Onboard supply control unit
- J861 Control unit for right daytime running light and side light
- L177 Right LED module for daytime running light and side light
- M7 Front right turn signal bulb
- T11b 11-pin connector
- T11c 11-pin connector
- T14d 14-pin connector

387 Earth connection 22, in main wiring harness



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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



Convertible roof

- ⇒ automatic
 - ⇒ semiautomatic
- from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

- ⇒ List of Fitting Locations!

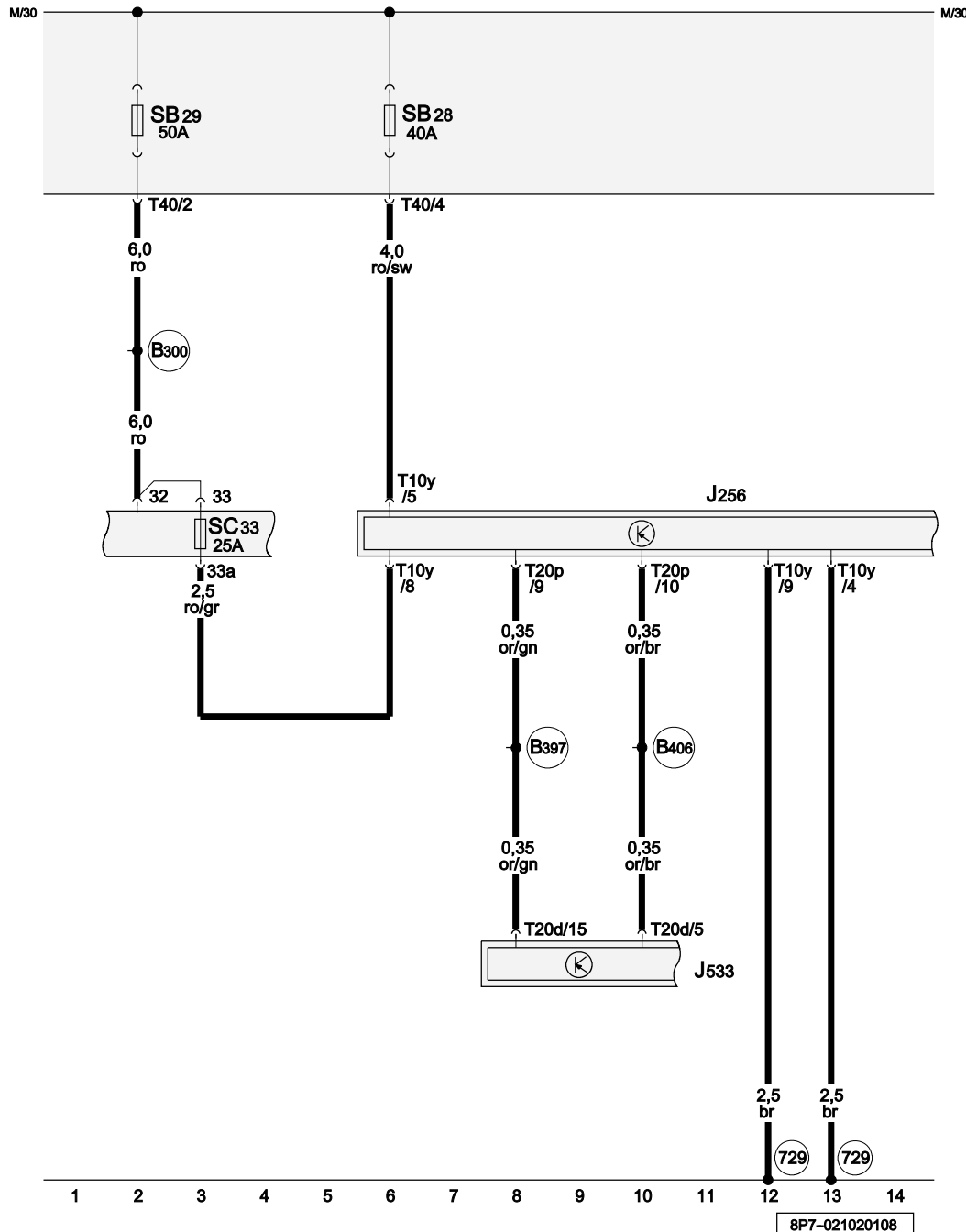
For information concerning

- ◆ Fault Finding Programs

- ⇒ guided fault finding



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Fuses on fuse holder

- J256 Convertible roof actuation control unit
- J533 Data bus diagnostic interface
- SB28 Fuse 28 on fuse holder B
- SB29 Fuse 29 on fuse holder B
- SC33 Fuse 33 on fuse holder C
- T10y 10-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)
- T20p 20-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

729 Earth point, on rear left wheel housing

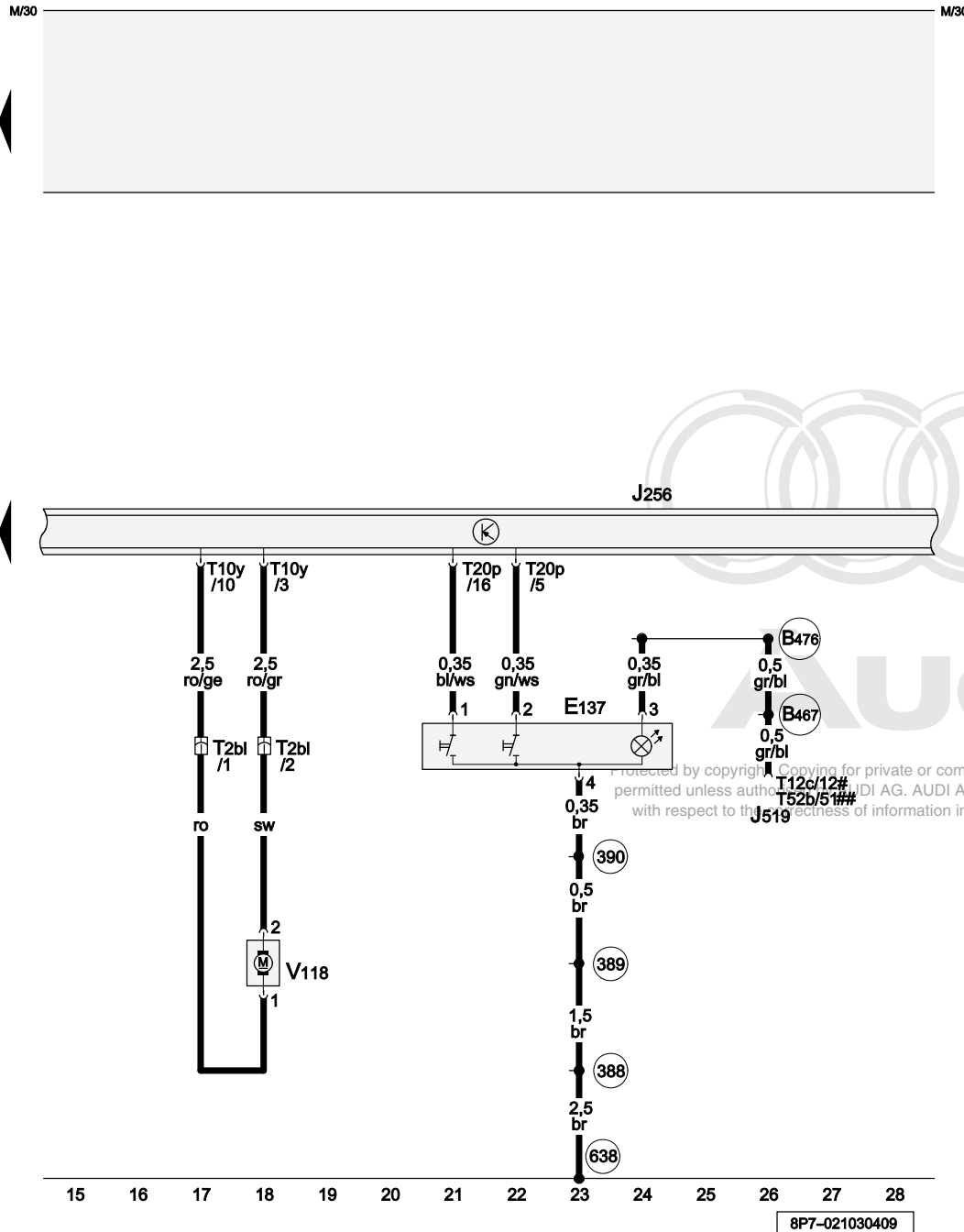
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B300 Positive connection 4 (30), in main wiring harness

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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gn = green
bl = blue
gr = grey
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Convertible roof actuation hydraulic pump, convertible roof actuation button

- E137 Convertible roof actuation switch
- J256 Convertible roof actuation control unit
- J519 Onboard supply control unit
- T2bl 2-pin connector, black
- T10y 10-pin connector, black (connector A)
- T12c 12-pin connector, black (connector B)
- T20p 20-pin connector, red (connector B)
- T52b 52-pin connector, white (connector B)
- V118 Convertible roof actuation hydraulic pump

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, right A-pillar
- B467 Connection 3 in main wiring harness
- B476 Connection 12 in main wiring harness
- # is dropped from May 2009
- ## applicable from May 2009

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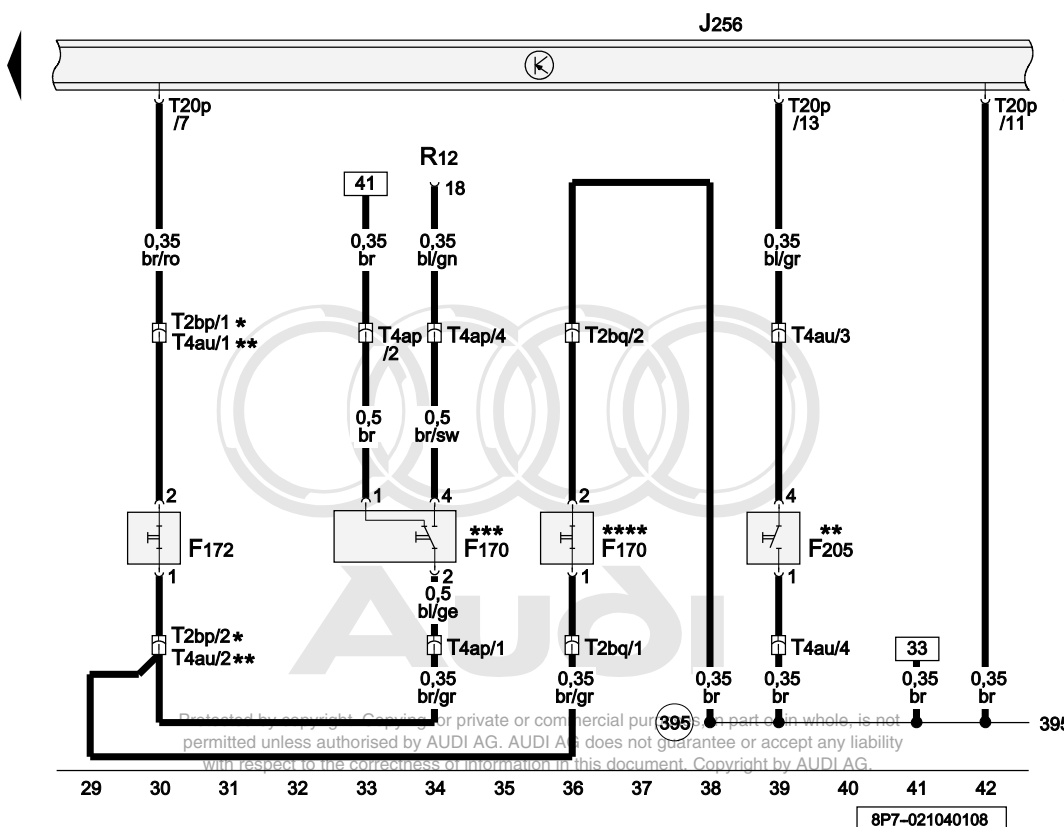


Right latch switch for convertible roof, front latch switch for convertible roof, convertible roof released switch

- F170 Right latch switch for convertible roof
- F172 Front latch switch for convertible roof
- F205 Convertible roof released switch
- J256 Convertible roof actuation control unit
- R12 Amplifier
- T2bp 2-pin connector
- T2bq 2-pin connector
- T4ap 4-pin connector
- T4au 4-pin connector
- T20p 20-pin connector, red (connector B)

395 Earth connection 30, in main wiring harness

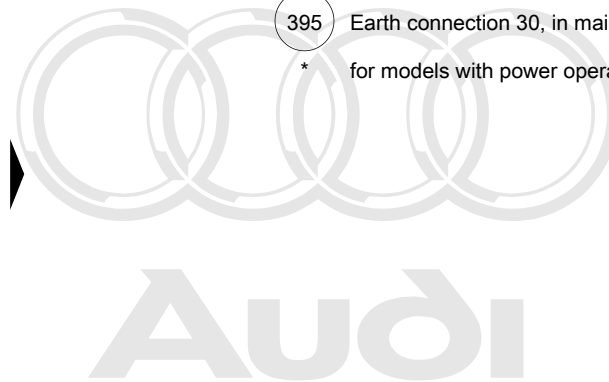
- * for models with power operated convertible top only
- ** for models with semiautomatic convertible roof only
- *** for models with Bose sound system only
- **** only models without Bose sound system



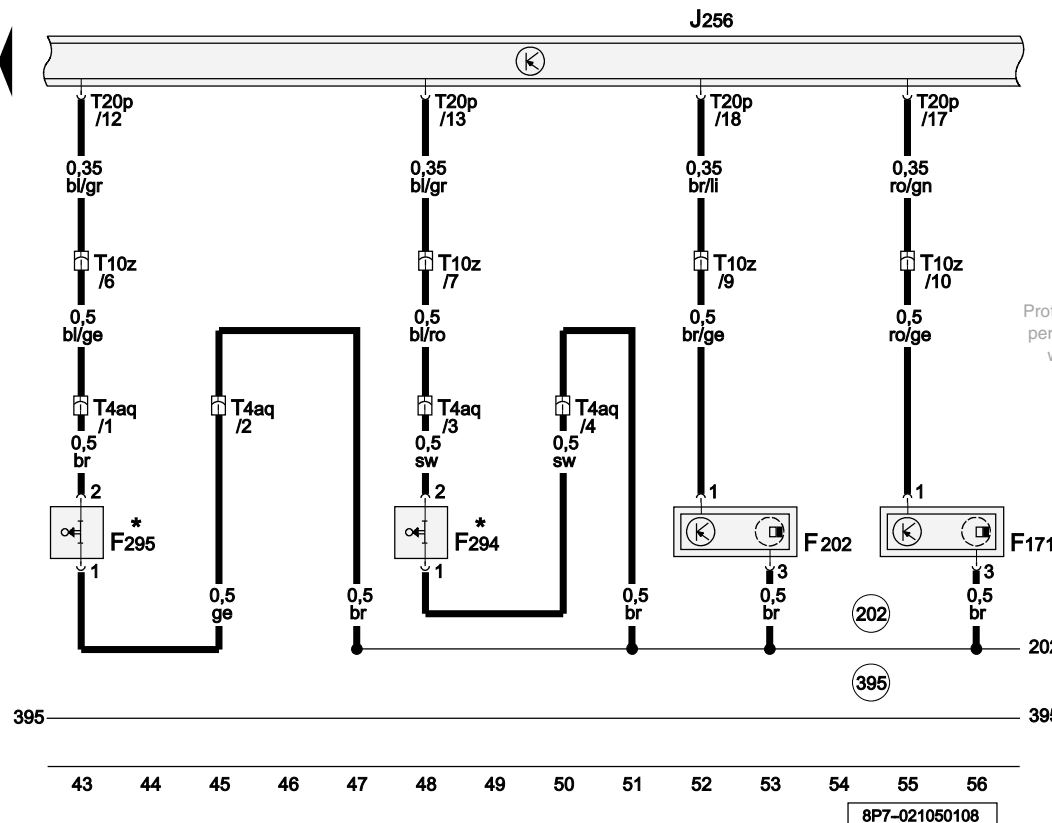


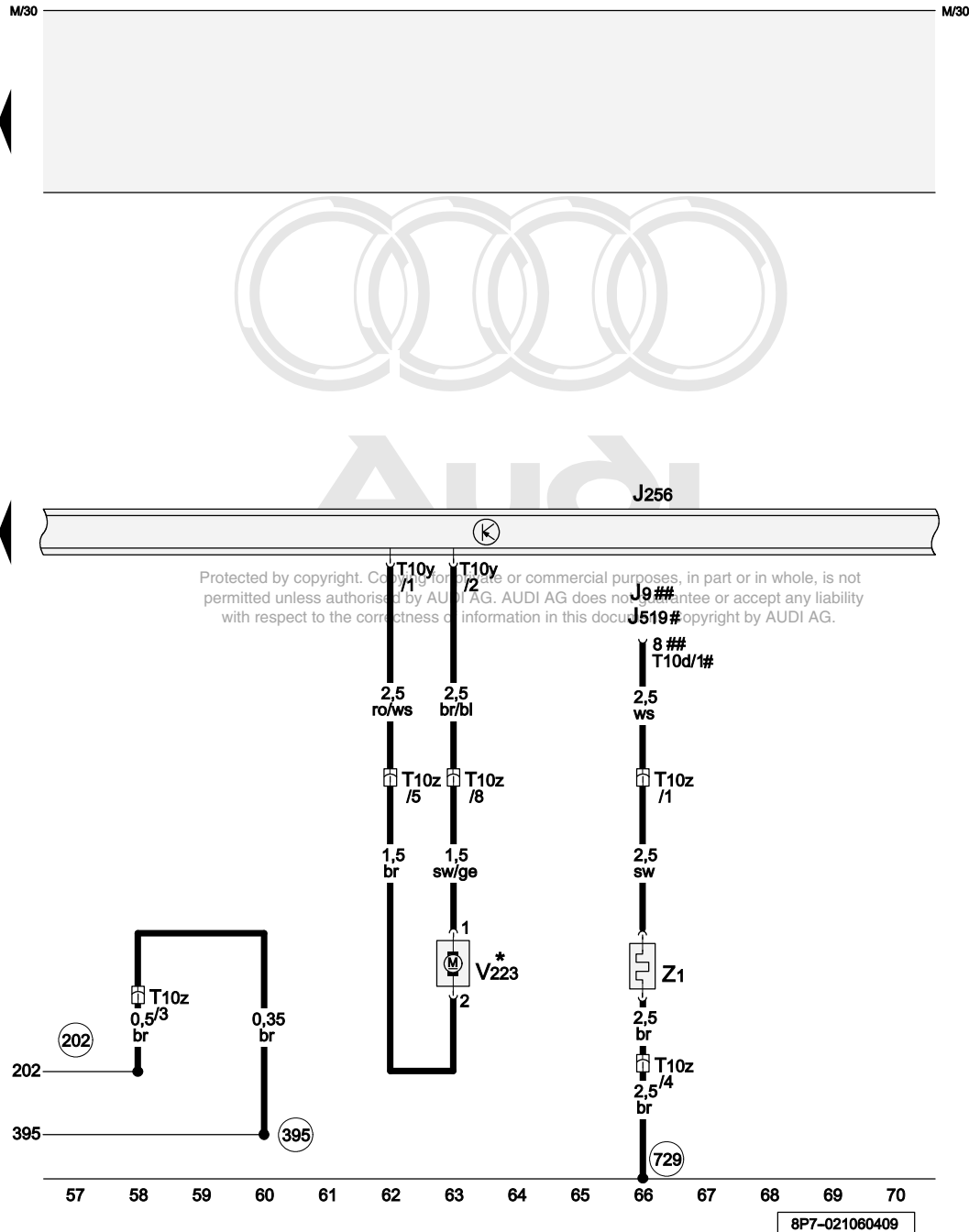
Convertible roof stowed switch, convertible roof front switch,
convertible roof latch open switch, convertible roof latch
closed switch

- F171 Convertible roof stowed switch
- F202 Convertible roof front switch
- F294 Convertible roof latch open switch
- F295 Convertible roof latch closed switch
- J256 Convertible roof actuation control unit
- T4aq 4-pin connector
- T10z 10-pin connector, black, behind the left rear light
- T20p 20-pin connector, red (connector B)
- 202 Earth connection, in convertible roof wiring harness
- 395 Earth connection 30, in main wiring harness
- * for models with power operated convertible top only



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Convertible roof lock motor, heated rear window

- J9 Heated rear window relay
- J256 Convertible roof actuation control unit
- J519 Onboard supply control unit
- T10d 10-pin connector, black (connector K)
- T10y 10-pin connector, black (connector A)
- T10z 10-pin connector, black, behind the left rear light
- V223 Convertible roof lock motor
- Z1 Heated rear window

202 Earth connection, in convertible roof wiring harness

395 Earth connection 30, in main wiring harness

729 Earth point, on rear left wheel housing

- * for models with power operated convertible top only
- # is dropped from May 2009
- ## applicable from May 2009

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gr = grey
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Battery in engine compartment

⇒ Main fuse holder, electronics box low
from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

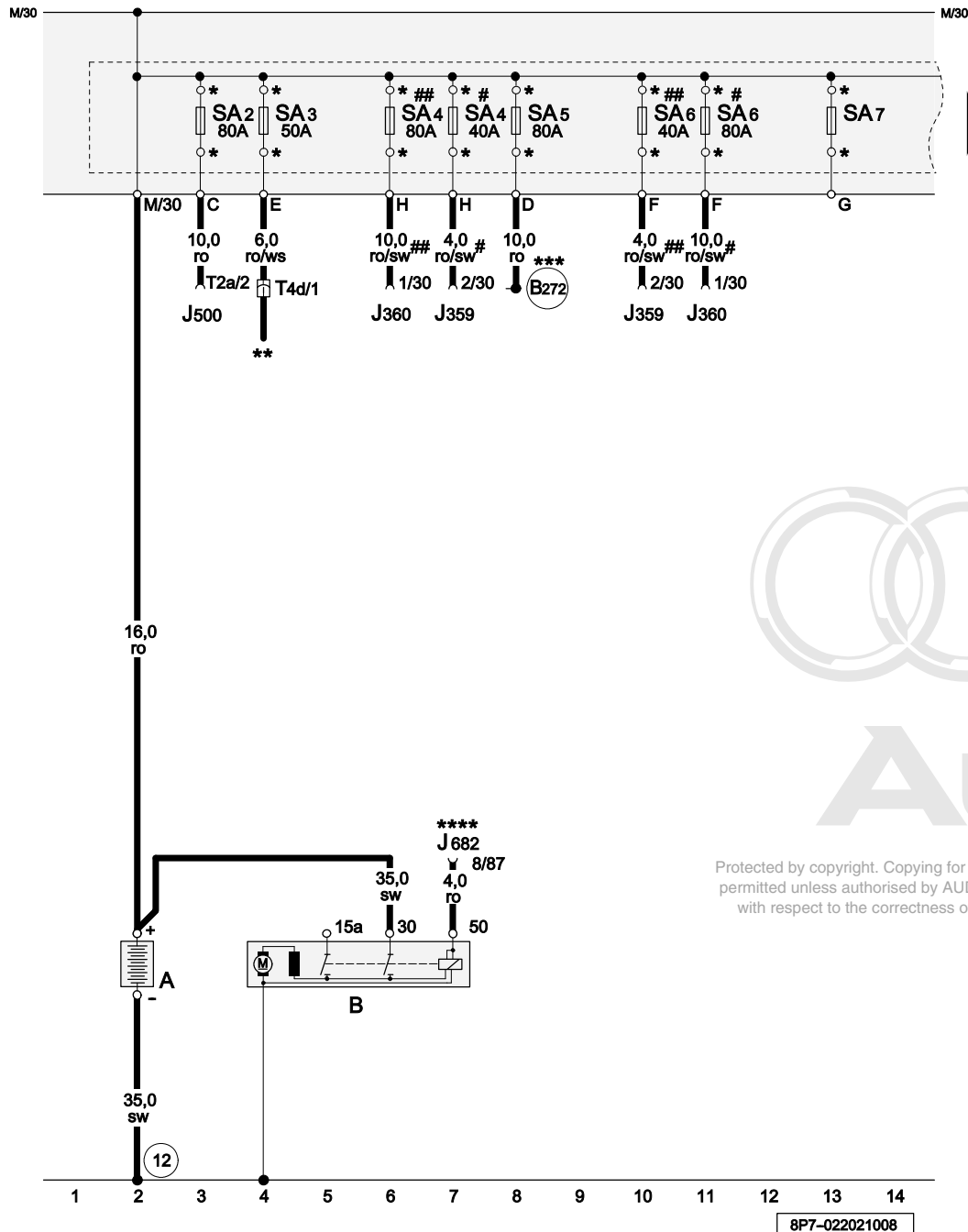
⇒ List of Fitting Locations!

For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding

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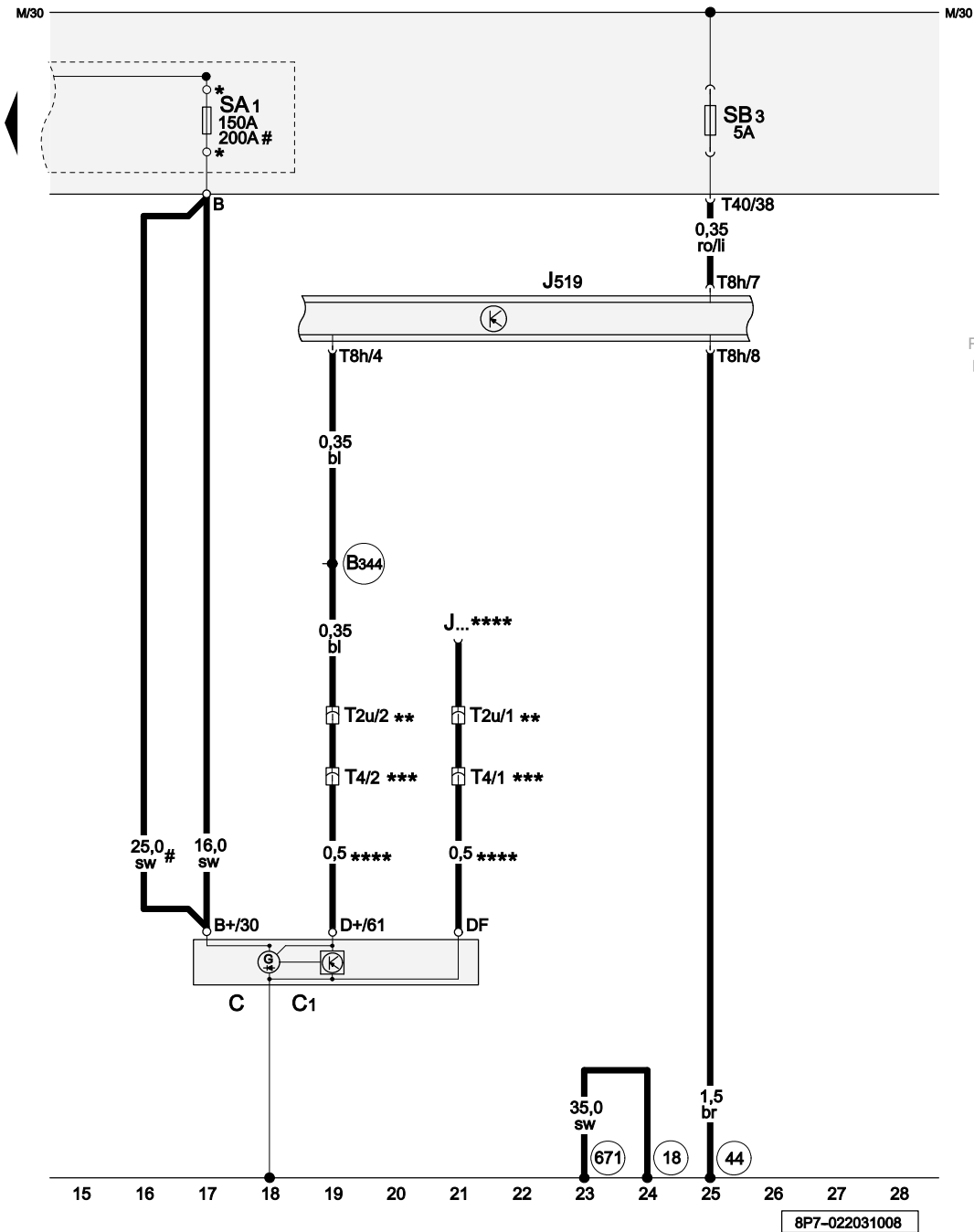


Starter, battery, fuses SA2 up to SA7

- A Battery
- B Starter
- J359 Low heat output relay
- J360 High heat output relay
- J500 Power steering control unit
- J682 Terminal 50 voltage supply relay
- SA2 Fuse 2 on fuse holder A
- SA3 Fuse 3 on fuse holder A
- SA4 Fuse 4 on fuse holder A
- SA5 Fuse 5 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SA7 Fuse 7 on fuse holder A
- T2a 2-pin connector, black (connector A)
- T4d 4-pin connector, black, on radiator fan (front end)
- 12 Earth point, on left in engine compartment
- B272 Positive connection (30), in main wiring harness
- * Screw connection, is dropped from November 2008
- ** ⇒ applicable Current Flow Diagram: radiator fan control
- *** supply for the fuses SC12 up to SC17, SC22 up to SC27, SC28, SC38, SC43
- **** ⇒ applicable engine Current Flow Diagram
- # is dropped from November 2008
- ## applicable from November 2008

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Alternator, voltage regulator, fuse SA1

J...	Engine control units
C	Alternator
C1	Voltage regulator
J519	Onboard supply control unit
SA1	Fuse 1 on fuse holder A
SB3	Fuse 3 on fuse holder B
T2u	2-pin connector, brown, in front left engine compartment
T4	4-pin connector, black, in front left engine compartment
T8h	8-pin connector, black (connector F)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)

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- 18 Earth point on engine block
- 44 Earth point, lower part of left A-pillar
- 671 Earth point 1, on front of left longitudinal member
- B344 Connection 1 (61), in main wiring harness
- * Screw connection, is dropped from November 2008
- ** for models without air conditioning system only
- *** for models with air conditioning system only
- **** => applicable engine Current Flow Diagram
- # for models with alternator (140A) only

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Manual regulation with heater

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

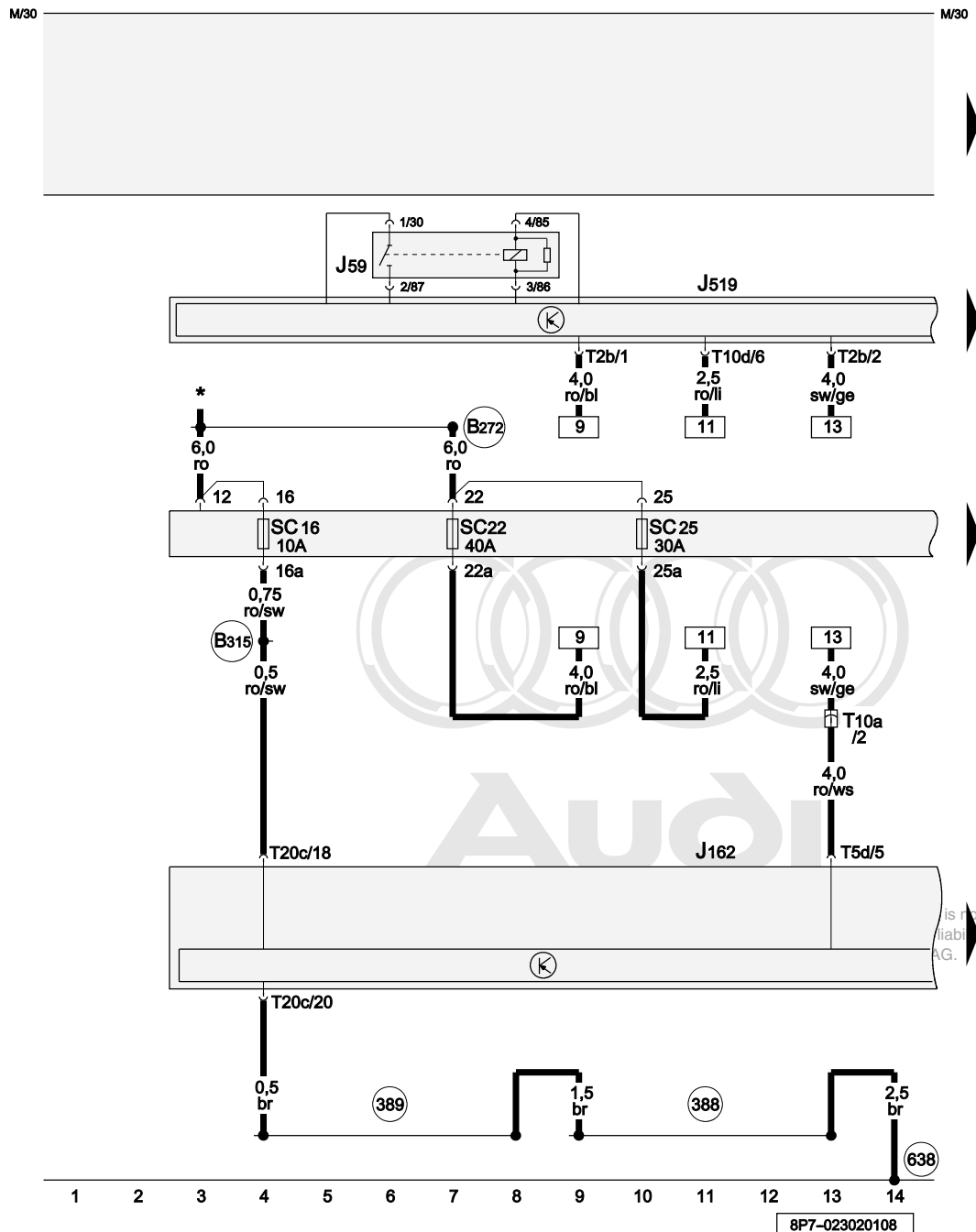
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding

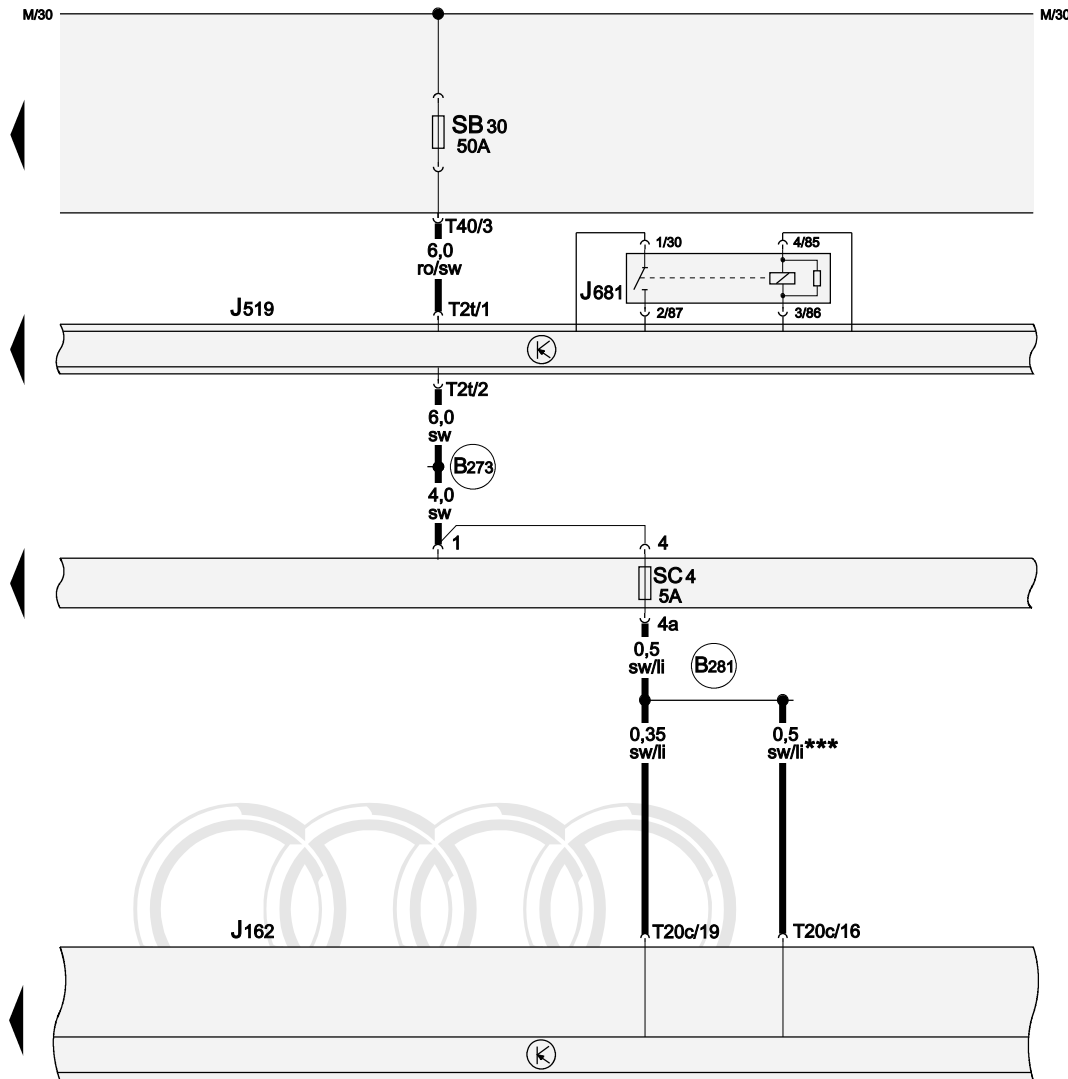


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Fuses on fuse holder, X-contact relief relay

- J59 X-contact relief relay
- J162 Heater control unit
- J519 Onboard supply control unit
- SC16 Fuse 16 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T2b 2-pin connector, brown (connector I)
- T5d 5-pin connector, black (connector C)
- T10a 10-pin connector, black, behind the glove compartment
- T10d 10-pin connector, black (connector K)
- T20c 20-pin connector, black (connector A)
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 638 Earth point, right A-pillar
- B272 Positive connection (30), in main wiring harness
- B315 Positive connection 1 (30a), in main wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment



Fuses on fuse holder, terminal 15 voltage supply relay 2

- J162 Heater control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T20c 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

(B273) Positive connection (15), in main wiring harness

(B281) Positive connection 5 (15a), in main wiring harness

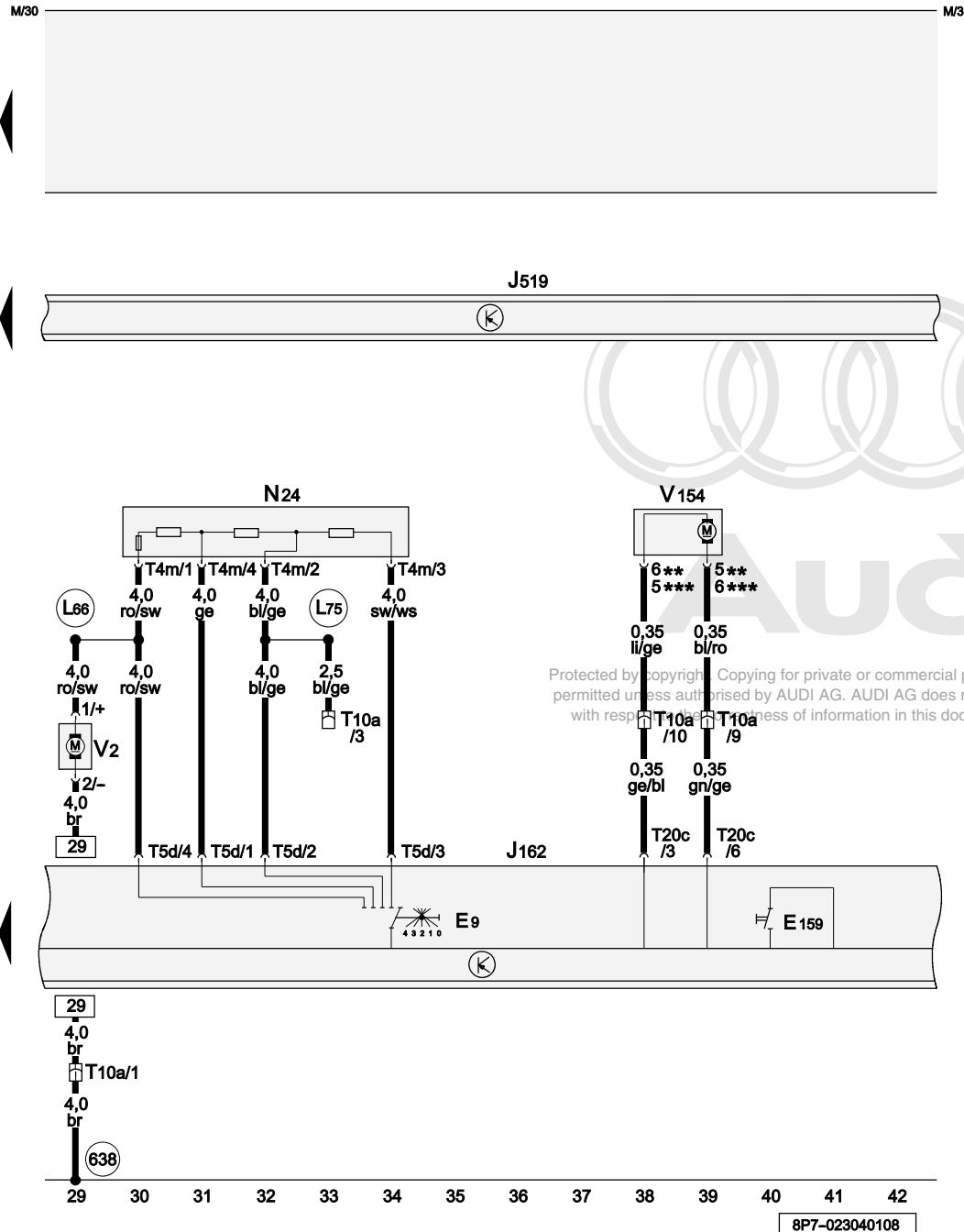
*** ⇒ applicable Current Flow Diagram: seat heating

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

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 or = orange
 rs = pink



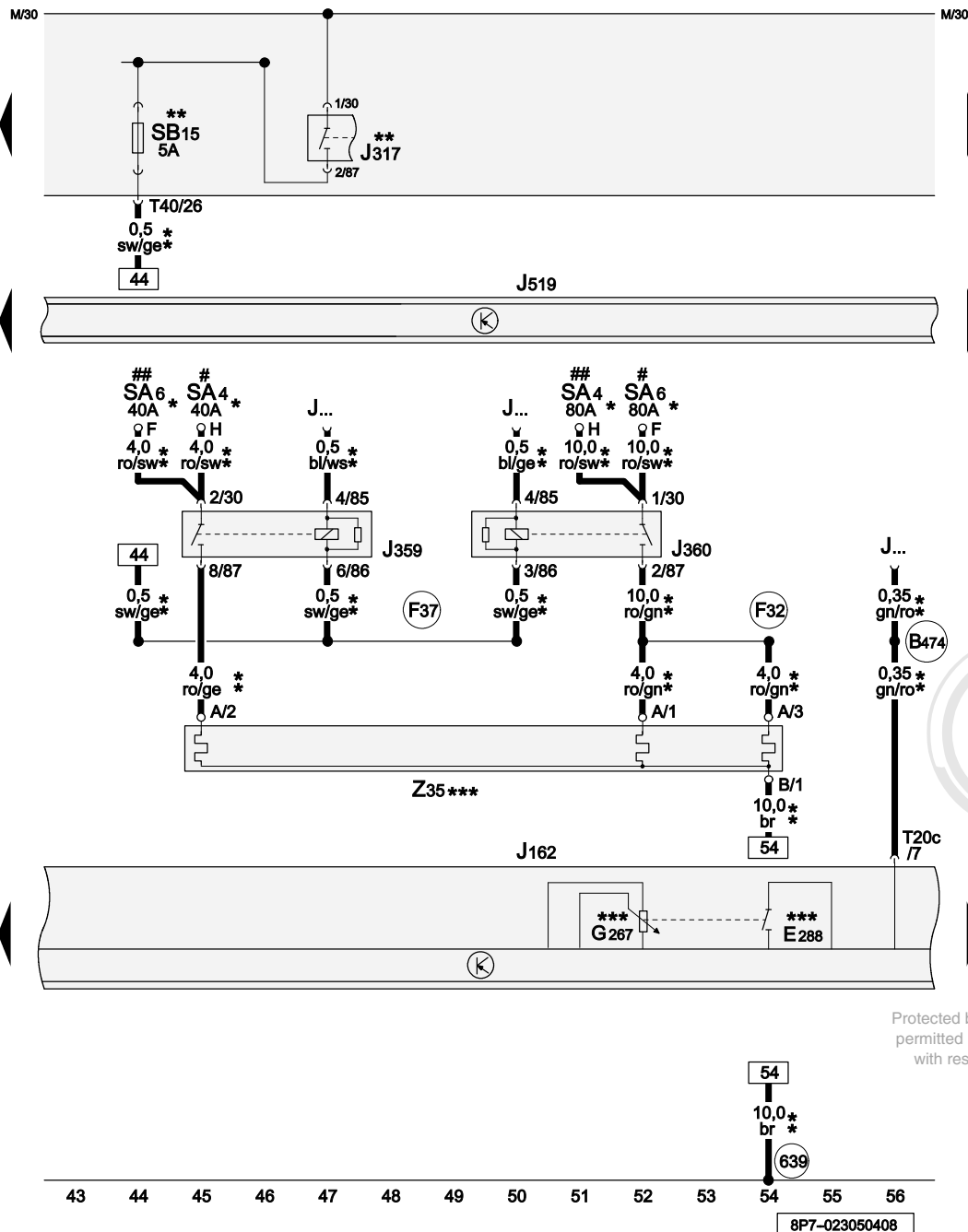
Fresh air blower, fresh air/recirculated air flap control motor

- E9 Fresh air blower switch
- E159 Fresh air/air recirculation flap switch
- J162 Heater control unit
- J519 Onboard supply control unit
- N24 Fresh air blower series resistor with overheating fuse
- T4m 4-pin connector, black (connector A)
- T5d 5-pin connector, black (connector C)
- T10a 10-pin connector, black, behind the glove compartment
- T20c 20-pin connector, black (connector A)
- V2 Fresh air blower
- V154 Fresh air/recirculated air flap control motor

- 638 Earth point, right A-pillar
- L66 Connection, in heater blower wiring harness
- L75 Connection 2, in heater blower wiring harness

- ** for right-hand drive models only
- *** for left-hand drive models only

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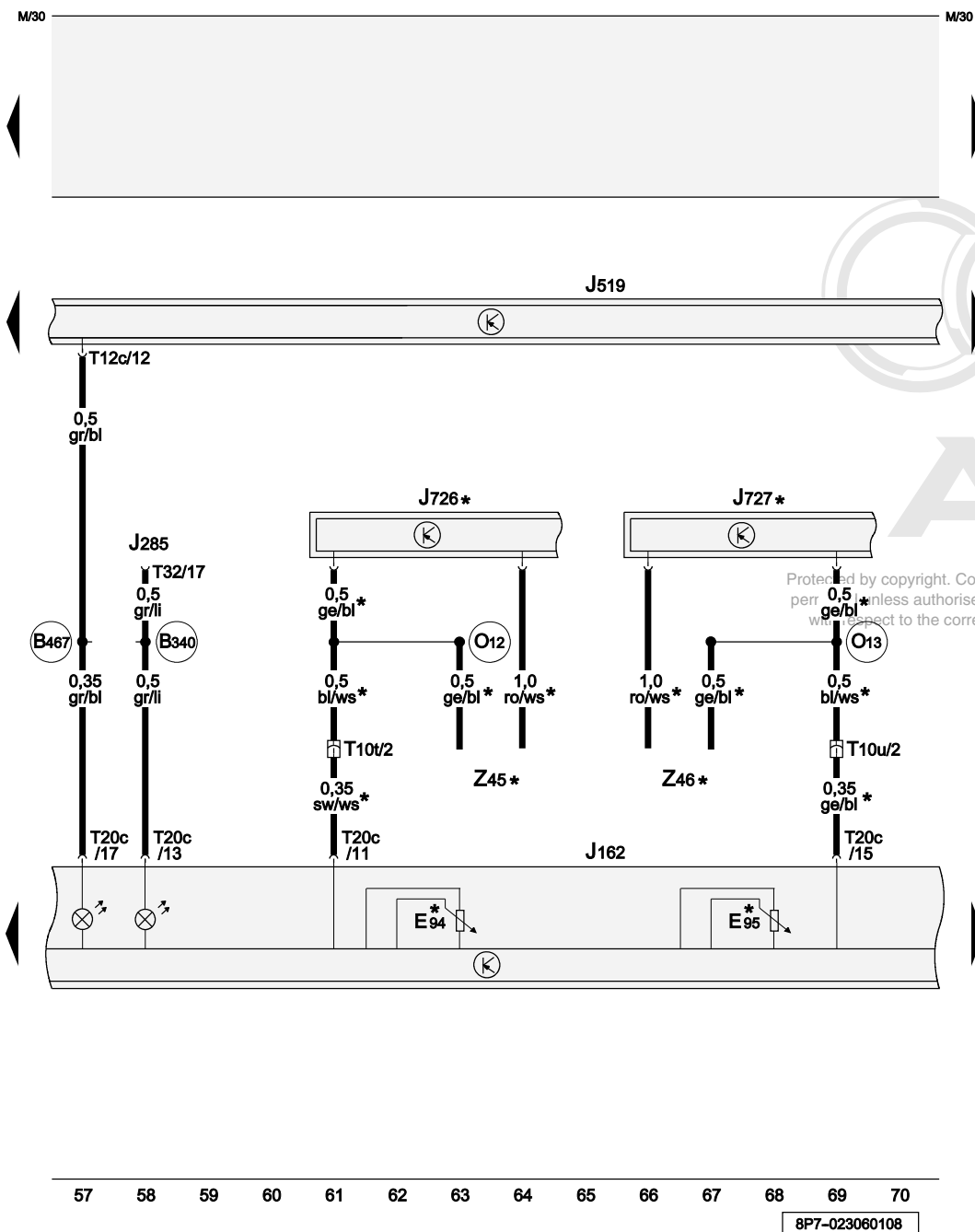


Auxiliary air heater

- E288 Auxiliary heater economy ECON button
- G267 Potentiometer for temperature selection rotary knob
- J... Engine control units
- J162 Heater control unit
- J317 Terminal 30 voltage supply relay
- J359 Low heat output relay
- J360 High heat output relay
- J519 Onboard supply control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- Z35 Auxiliary heater element
- 639 Earth point, left A-pillar
- B474 Connection 10 in main wiring harness
- F32 Connection (glow plugs, coolant) in diesel direct injection system wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models with diesel engines only
- *** for models with auxiliary air heater only
- # is dropped from November 2008
- ## applicable from November 2008

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Heated seat regulator

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- J162 Heater control unit
- J285 Control unit in dash panel insert
- J519 Onboard supply control unit
- J726 Driver seat heating control unit
- J727 Front passenger seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T12c 12-pin connector, black (connector B)
- T20c 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- Z45 Front left seat heating
- Z46 Front right seat heating

B340 Connection 1 (58d), in main wiring harness

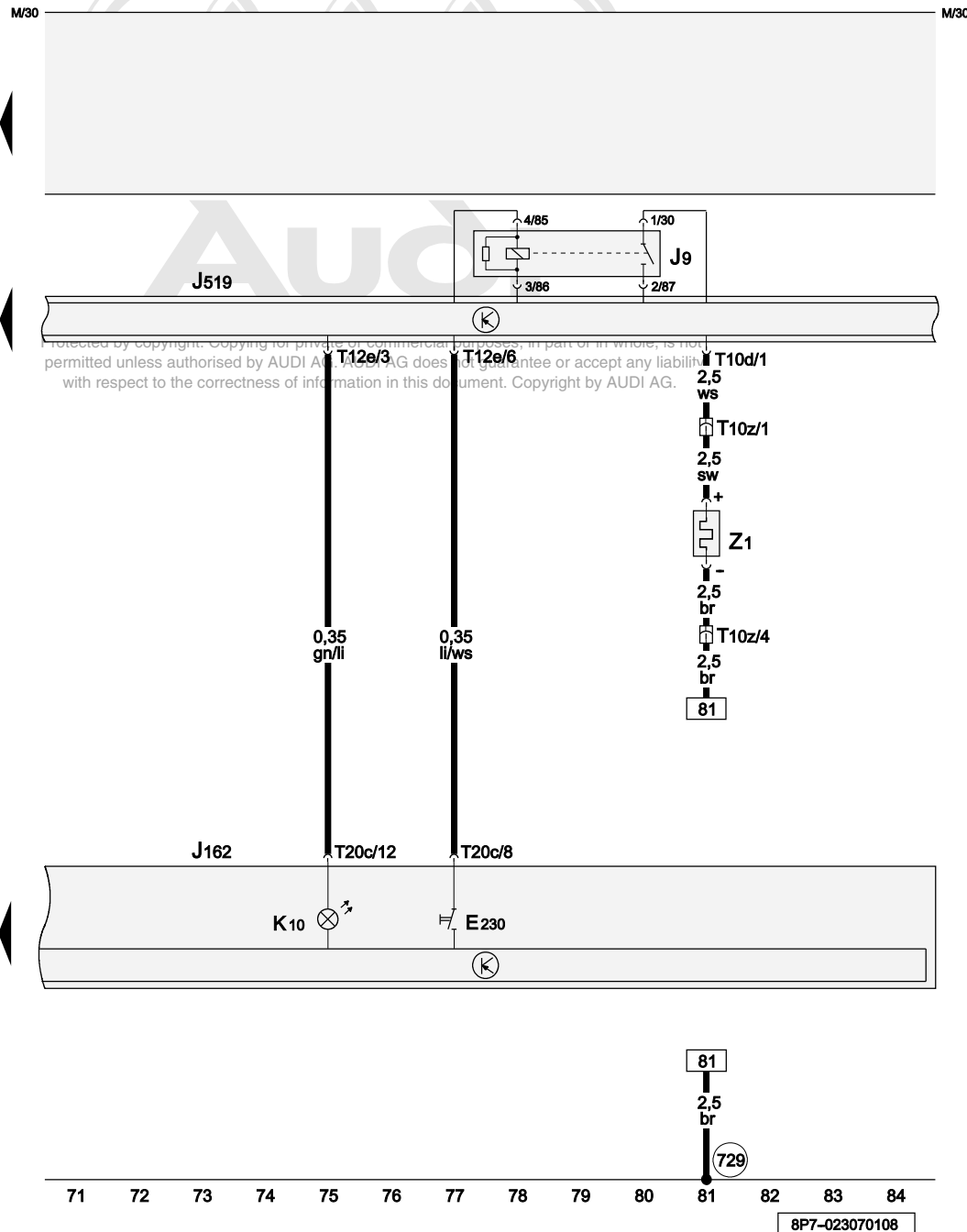
B467 Connection 3 in main wiring harness

O12 Connection 1, in seat heating wiring harness

O13 Connection 2, in seat heating wiring harness

* ⇒ applicable Current Flow Diagram: seat heating

ws = white
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Heated rear window relay, heated rear window

- E230 Heated rear window button
- J9 Heated rear window relay
- J162 Heater control unit
- J519 Onboard supply control unit
- K10 Heated rear window warning lamp
- T10d 10-pin connector, black (connector K)
- T10z 10-pin connector, black, behind the left rear light
- T12e 12-pin connector, black (connector G)
- T20c 20-pin connector, black (connector A)
- Z1 Heated rear window

- 729 Earth point, on rear left wheel housing



Air conditioner with manual regulation

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

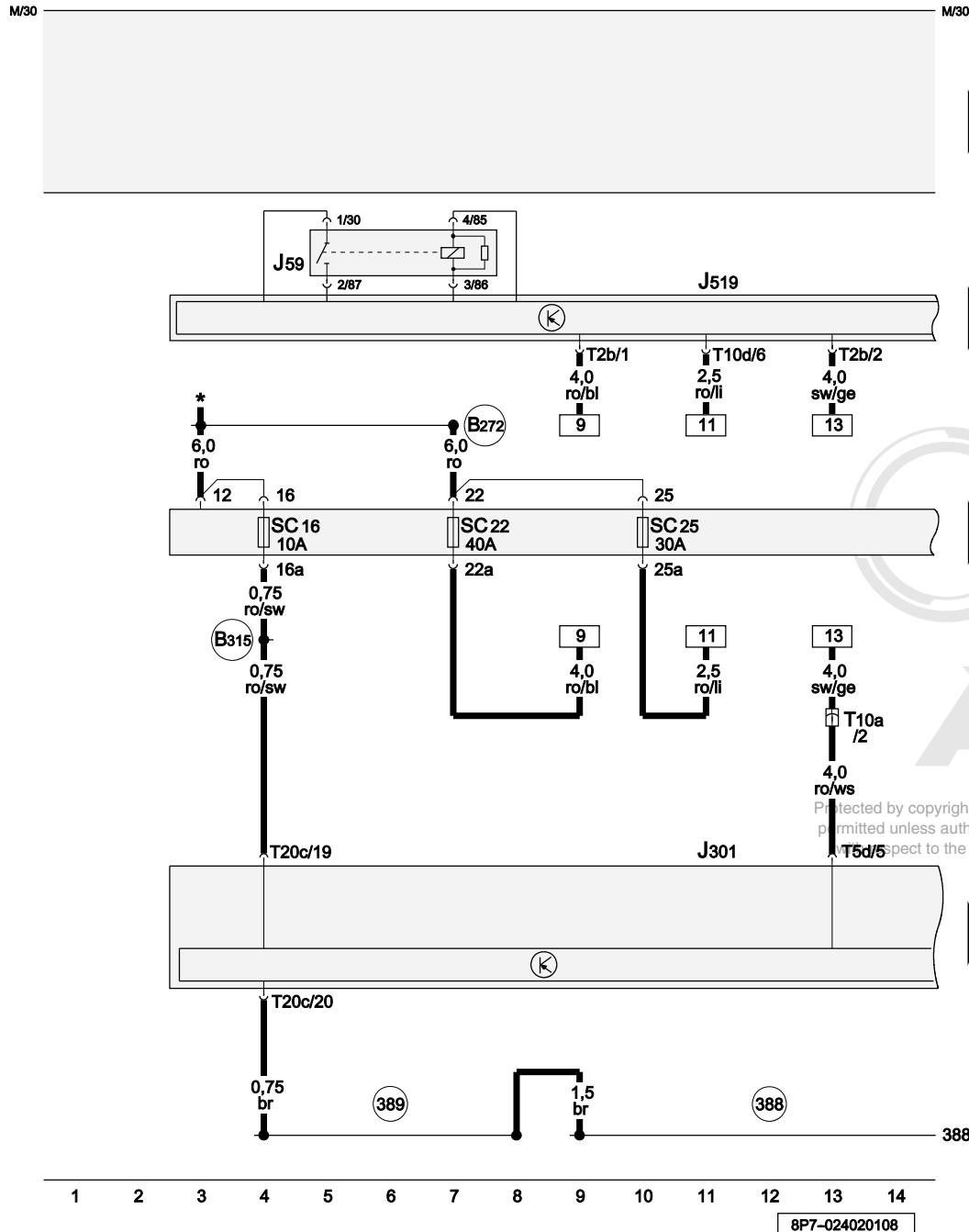
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder, X-contact relief relay

- J59 X-contact relief relay
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- SC16 Fuse 16 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T2b 2-pin connector, brown (connector I)
- T5d 5-pin connector, black (connector C)
- T10a 10-pin connector, black, behind the glove compartment
- T10d 10-pin connector, black (connector K)
- T20c 20-pin connector, black (connector A)

388 Earth connection 23, in main wiring harness

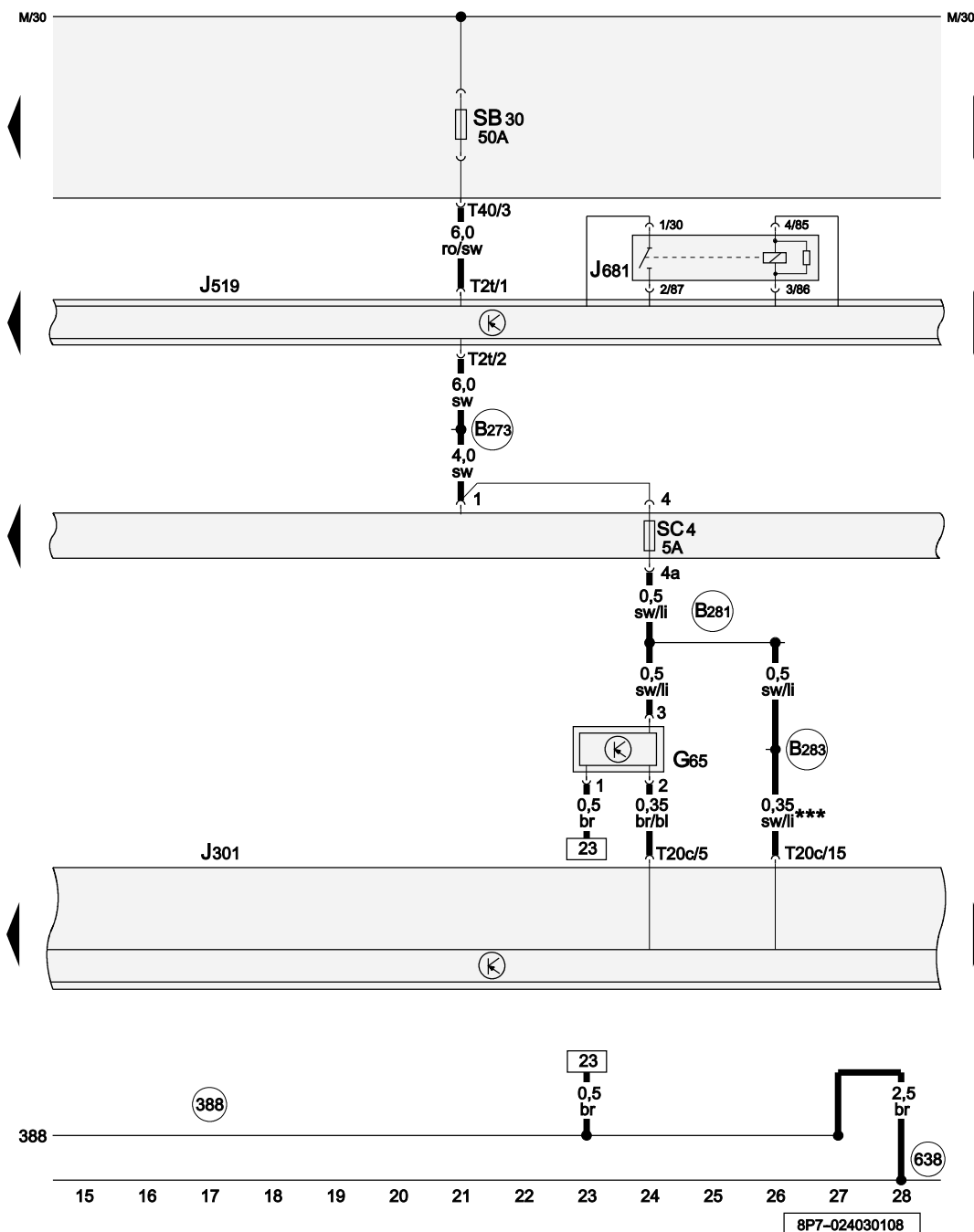
389 Earth connection 24, in main wiring harness

B272 Positive connection (30), in main wiring harness

B315 Positive connection 1 (30a), in main wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

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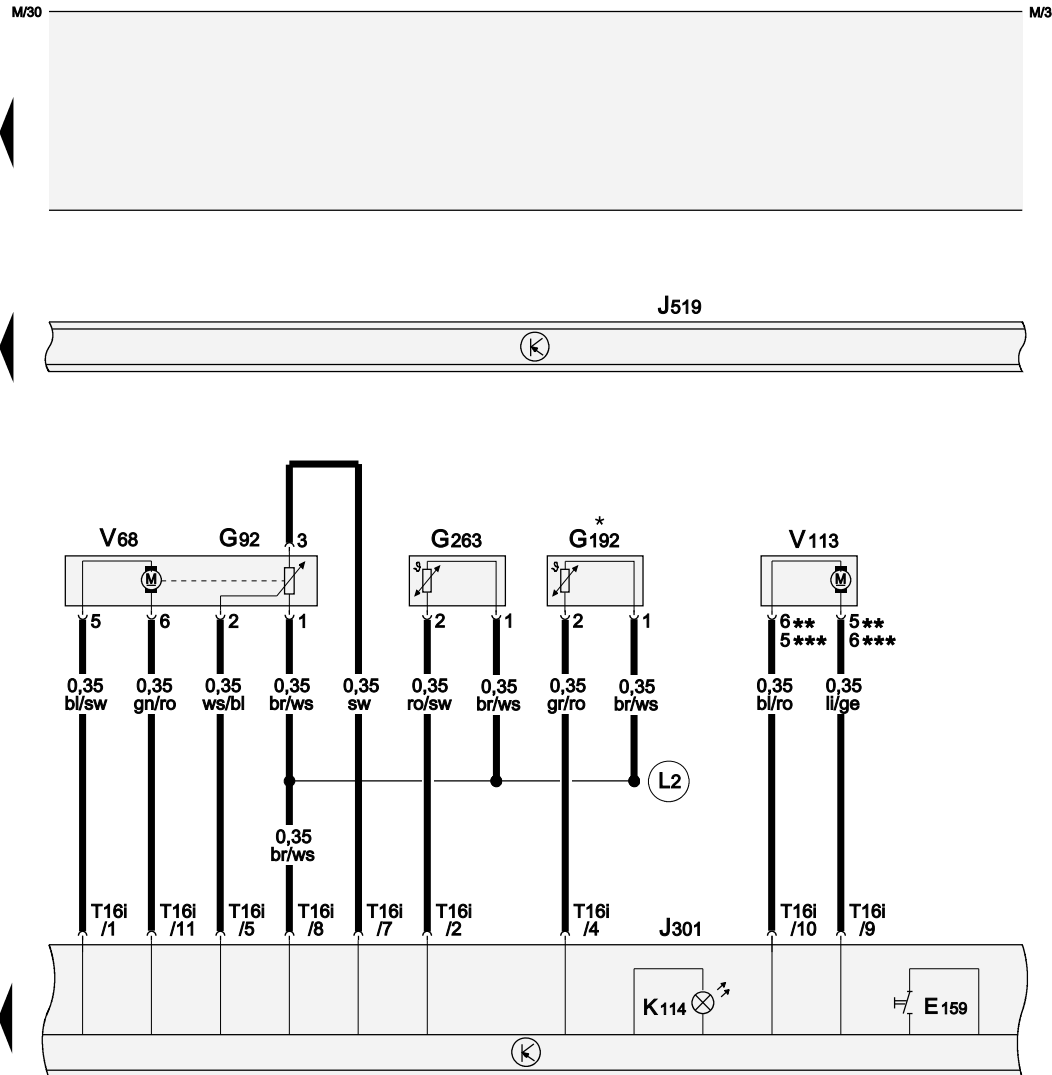
Fuses on fuse holder, terminal 15 voltage supply relay 2, high-pressure sender

- | | |
|------|---|
| G65 | High pressure sender |
| J301 | Air conditioning system control unit |
| J519 | Onboard supply control unit |
| J681 | Terminal 15 voltage supply relay 2 |
| SB30 | Fuse 30 on fuse holder B |
| SC4 | Fuse 4 on fuse holder C |
| T2t | 2-pin connector, black (connector L) |
| T20c | 20-pin connector, black (connector A) |
| T40 | 40-pin connector, black, on electronics box in engine compartment (connector J) |

- 388 Earth connection 23, in main wiring harness
 - 638 Earth point, right A-pillar
 - B273 Positive connection (15), in main wiring harness
 - B281 Positive connection 5 (15a), in main wiring harness
 - B283 Positive connection 7 (15a), in main wiring harness
- *** ⇒ applicable Current Flow Diagram: seat heating

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Vent temperature sender, temperature flap control motor, air recirculation flap control motor

- E159 Fresh air/air recirculation flap switch
- G92 Temperature flap control motor potentiometer
- G192 Footwell vent temperature sender
- G263 Evaporator out-flow temperature sender
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- K114 Fresh air and air recirculation warning lamp
- T16i 16-pin connector, black (connector B)
- V68 Temperature flap control motor
- V113 Air recirculation flap control motor

L2 Connection in air conditioning system wiring harness

- * if present
- ** for left-hand drive models only
- *** for right-hand drive models only

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29 30 31 32 33 34 35 36 37 38 39 40 41 42

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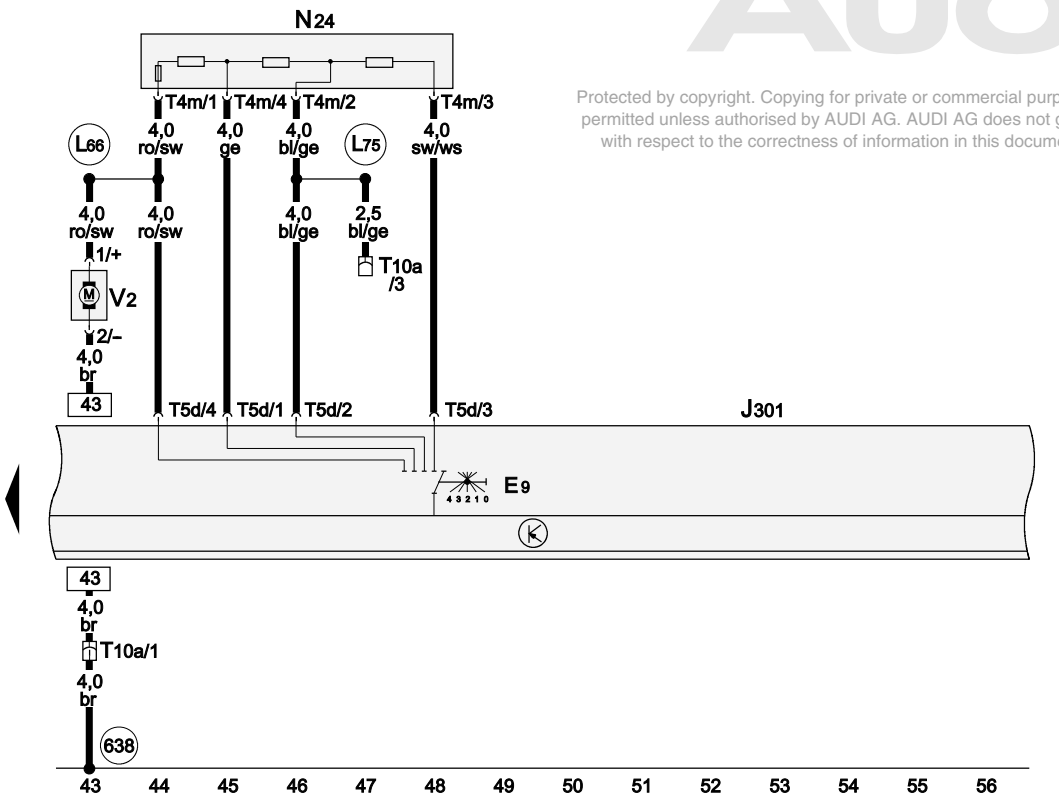
Fresh air blower series resistor with overheating fuse, fresh air blower

- E9 Fresh air blower switch
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- N24 Fresh air blower series resistor with overheating fuse
- T4m 4-pin connector, black (connector A)
- T5d 5-pin connector, black (connector C)
- T10a 10-pin connector, black, behind the glove compartment
- V2 Fresh air blower

638 Earth point, right A-pillar

L66 Connection, in heater blower wiring harness

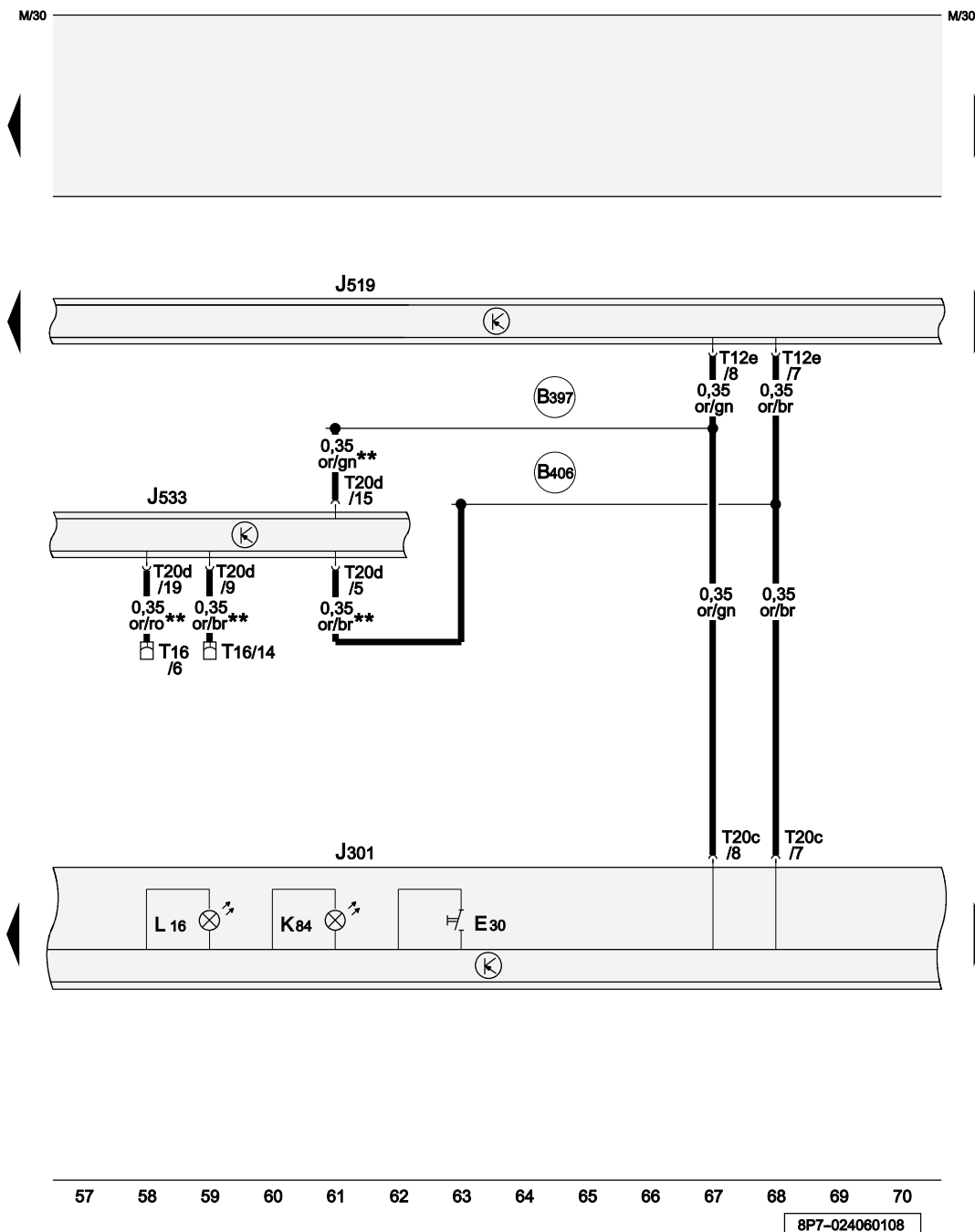
L75 Connection 2, in heater blower wiring harness



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Convenience CAN bus, data bus diagnostic interface

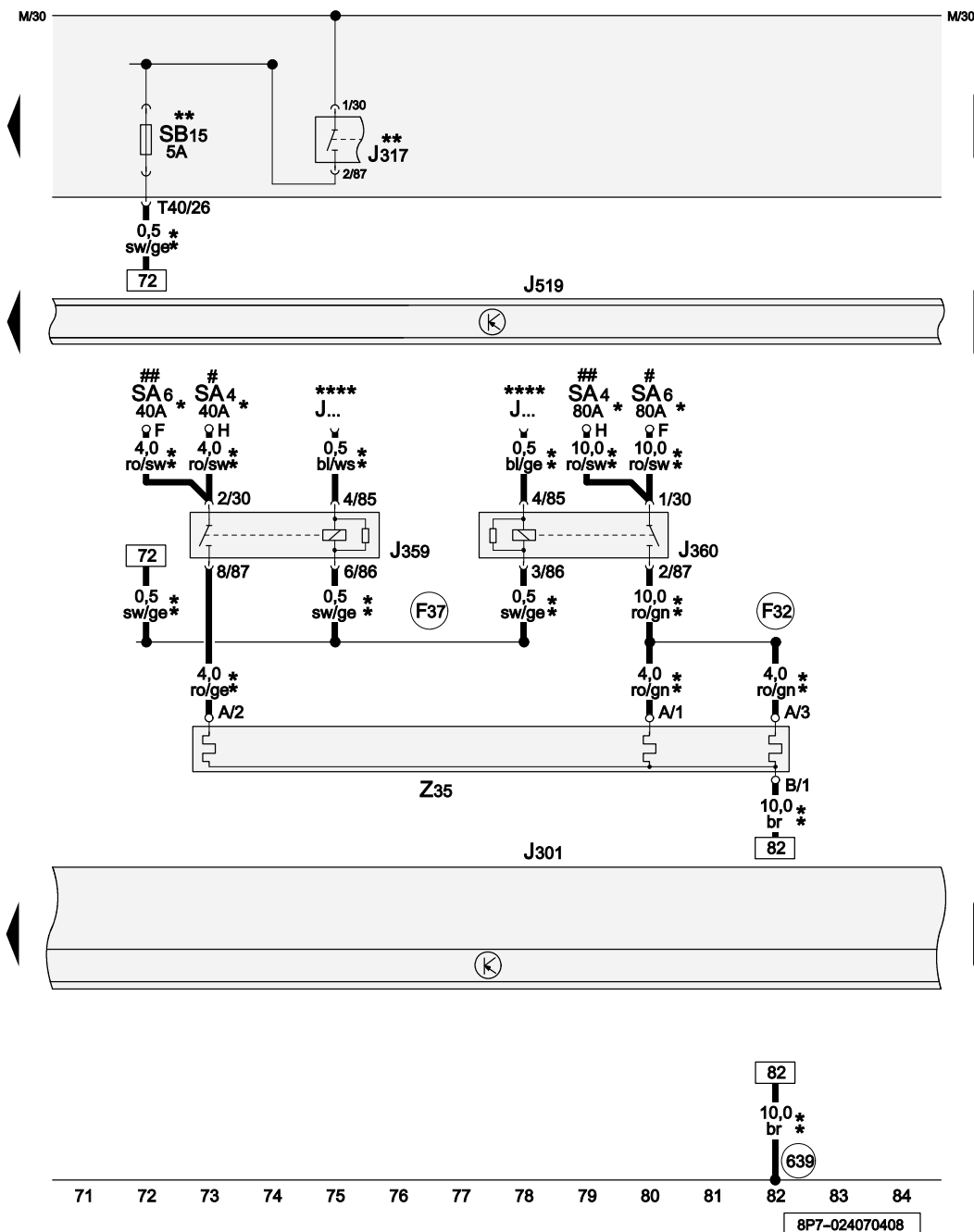
- E30 Air conditioning system switch
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- K84 Air conditioning system warning lamp
- L16 Fresh air regulator illumination bulb
- T12e 12-pin connector, black (connector G)
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20c 20-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

** = applicable Current Flow Diagram: diagnostic connector

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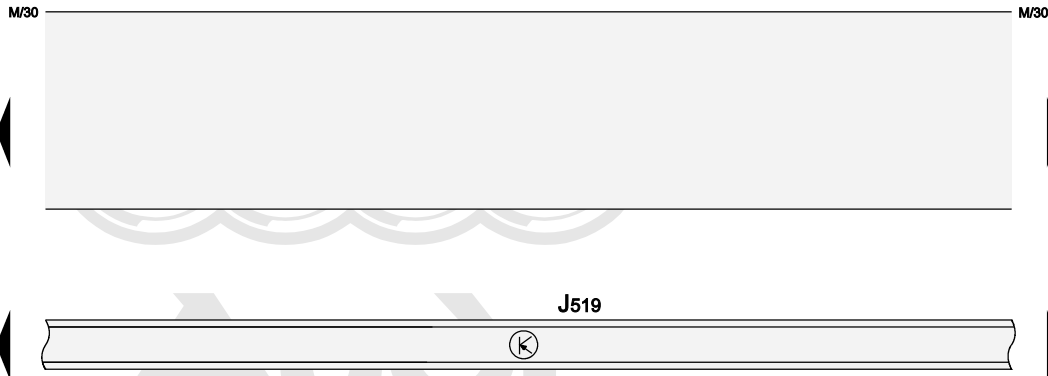


Auxiliary air heater

- J... Engine control units
- J301 Air conditioning system control unit
- J317 Terminal 30 voltage supply relay
- J359 Low heat output relay
- J360 High heat output relay
- J519 Onboard supply control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- Z35 Auxiliary heater element
- 639 Earth point, left A-pillar
- F32 Connection (glow plugs, coolant) in diesel direct injection system wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models with diesel engines only
- **** ⇒ applicable engine Current Flow Diagram
- # is dropped from November 2008
- ## applicable from November 2008

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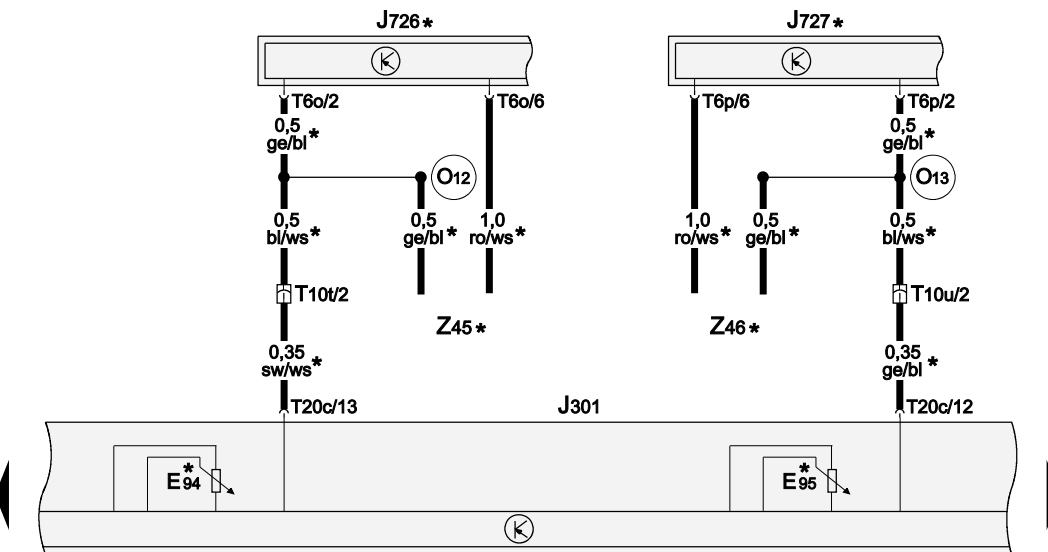
Heated seat regulator

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J726 Driver seat heating control unit
- J727 Front passenger seat heating control unit
- T6o 6-pin connector, black, on driver seat heating control unit
- T6p 6-pin connector, black, on front passenger seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T20c 20-pin connector, black (connector A)
- Z45 Front left seat heating
- Z46 Front right seat heating

O12 Connection 1, in seat heating wiring harness

O13 Connection 2, in seat heating wiring harness

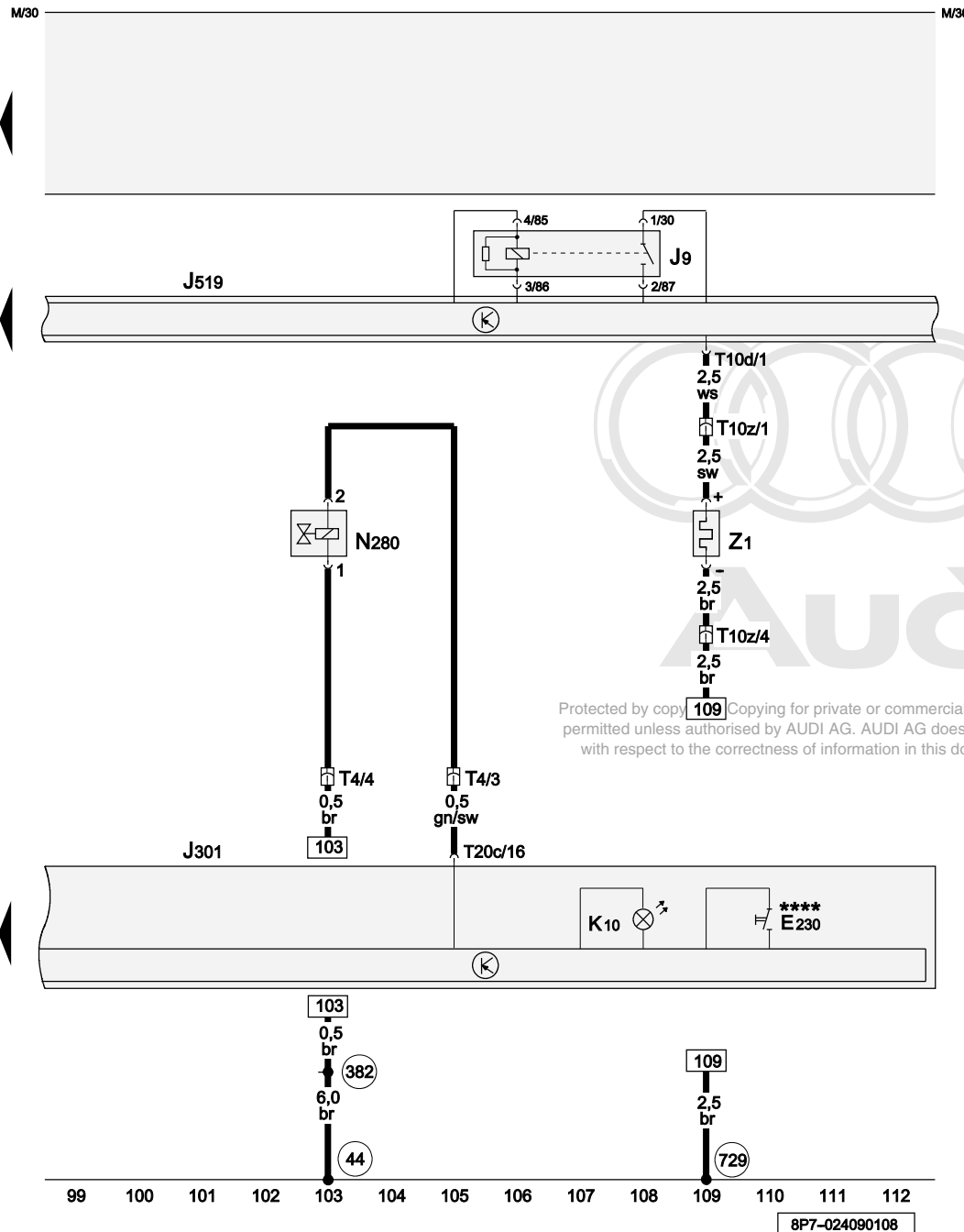
* ⇒ applicable Current Flow Diagram: seat heating



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85 86 87 88 89 90 91 92 93 94 95 96 97 98

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Heated rear window relay, heated rear window, air conditioning system compressor regulating valve

- E230 Heated rear window button
- J9 Heated rear window relay
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- K10 Heated rear window warning lamp
- N280 Air conditioning system compressor regulating valve
- T4 4-pin connector, black, in front left engine compartment
- T20c 20-pin connector, black (connector A)
- T10d 10-pin connector, black (connector K)
- T10z 10-pin connector, black, behind the left rear light
- Z1 Heated rear window

- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 729 Earth point, on rear left wheel housing
- **** Operation for Z1 via convenience CAN bus

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Preparation for mobile telephone with hands-free system

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

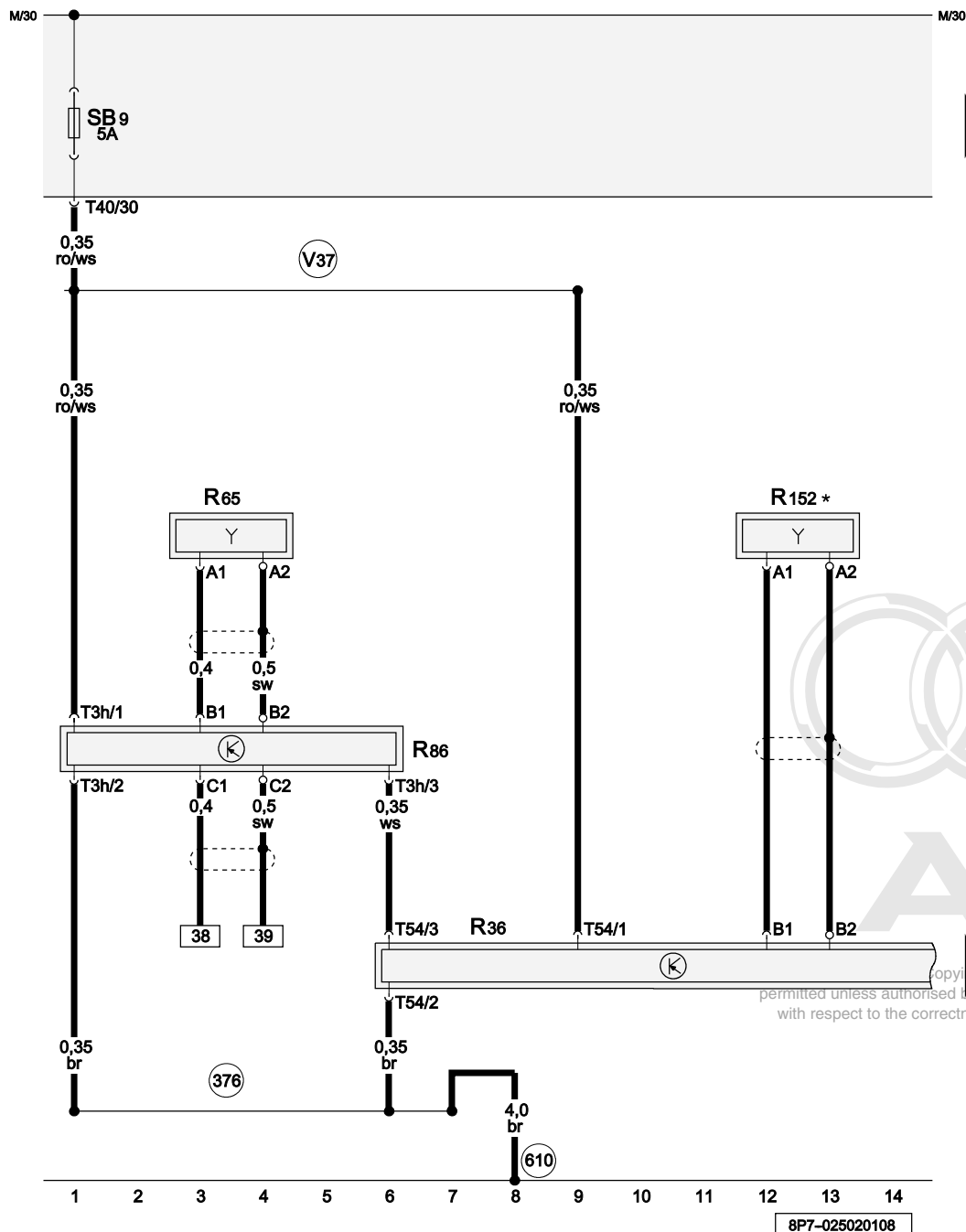
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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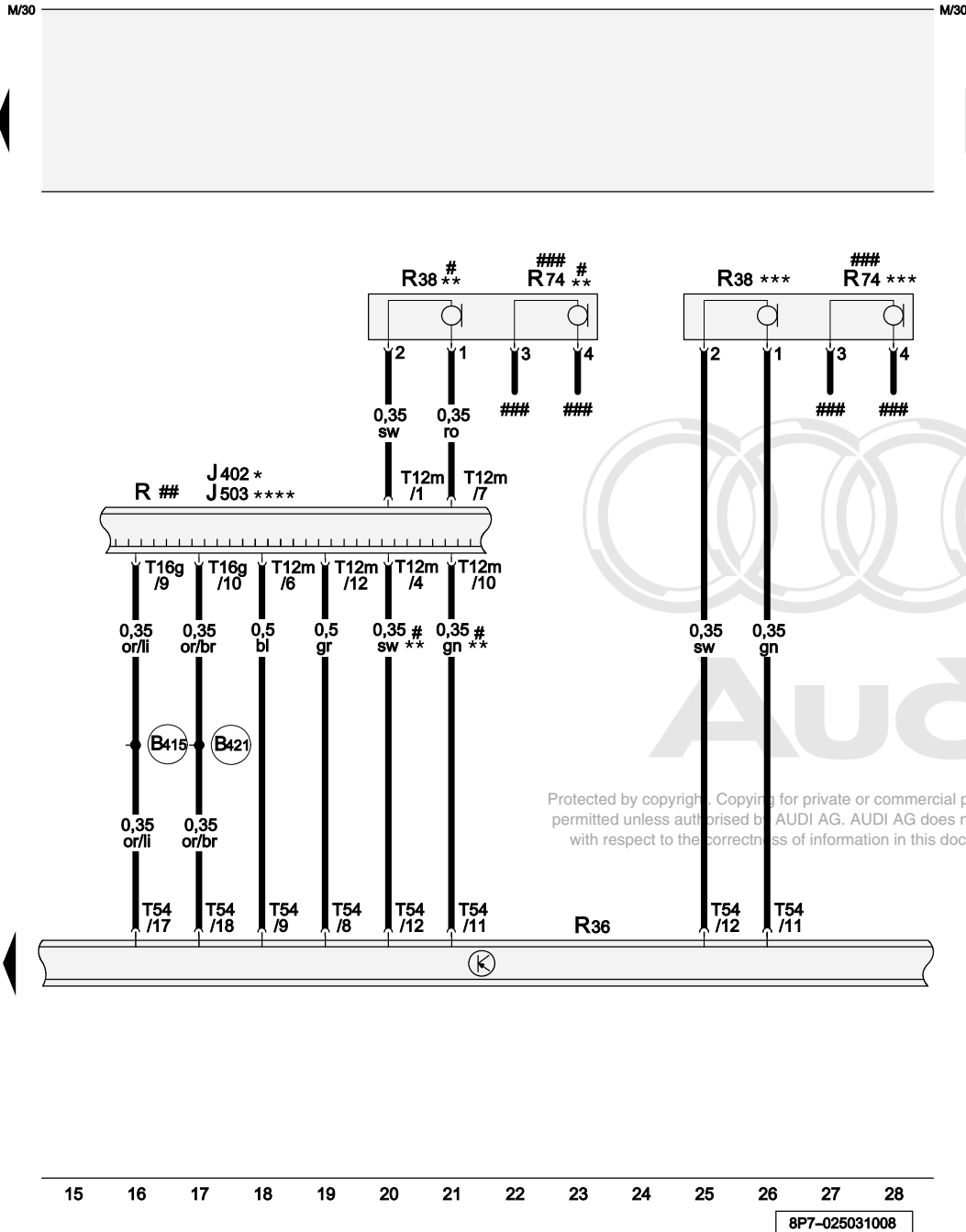
Aerial for Bluetooth, aerial for Bluetooth

- R36 Telephone transmitter and receiver unit
- R65 Telephone aerial
- R86 Aerial amplifier for mobile telephone
- R152 Aerial for Bluetooth
- SB9 Fuse 9 on fuse holder B
- T3h 3-pin connector, black, rear left on C-pillar (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T54 54-pin connector, black (connector A)
- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), under centre console, front
- V37 Positive connection (30), in communication wiring harness
- * for models with aerial for Bluetooth only

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 or = orange
 rs = pink

8P7-025020108



Telephone microphone, internal microphone

- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation system
- R Radio
- R36 Telephone transmitter and receiver unit
- R38 Telephone microphone
- R74 Internal microphone
- T12m 12-pin connector, black (connector C, connector locking green)
- T16g 16-pin connector, black (connector D)
- T54 54-pin connector, black (connector A)

- (B415) Connection 1 (infotainment CAN bus, high), in main wiring harness
- (B421) Connection 1 (infotainment CAN bus, low), in main wiring harness

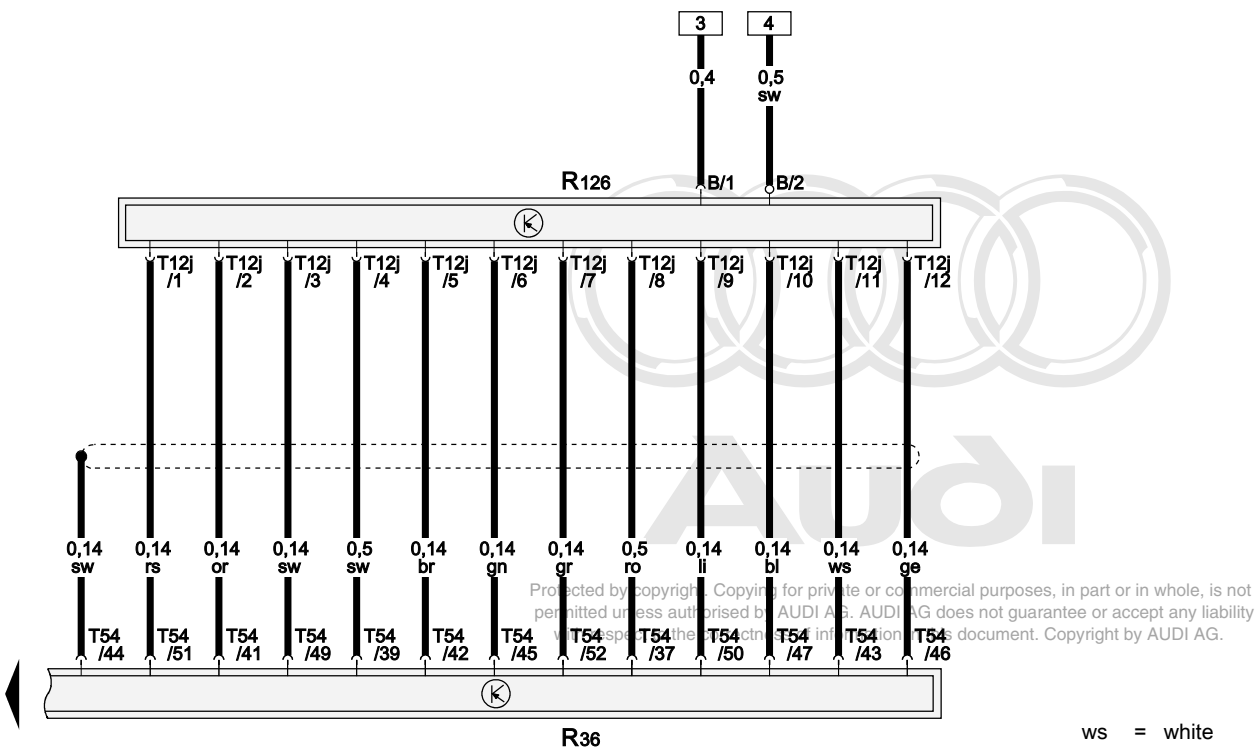
- * for models with radio navigation system RNS-E only
- ** for models with voice control only, no longer fitted, phased-in modification
- *** for models without voice control only
- **** for models with radio navigation system RNS-low only
- # not for models with radio navigation system RNS-low or radiogeneration II plus
- ## for models with radiogeneration II plus only
- ### for models with Bose sound system only

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Telephone bracket

- R36 Telephone transmitter and receiver unit
- R126 Telephone bracket
- T12j 12-pin connector, brown (connector A)
- T54 54-pin connector, black (connector A)



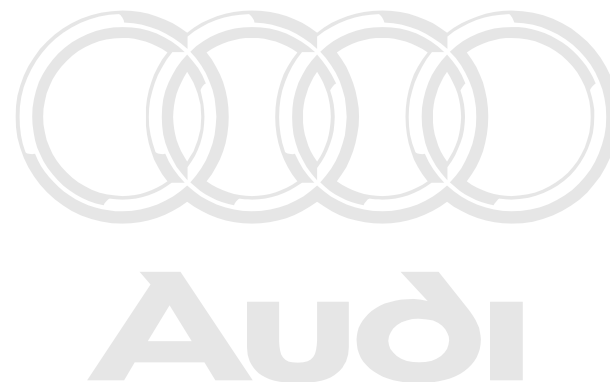
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29 30 31 32 33 34 35 36 37 38 39 40 41 42

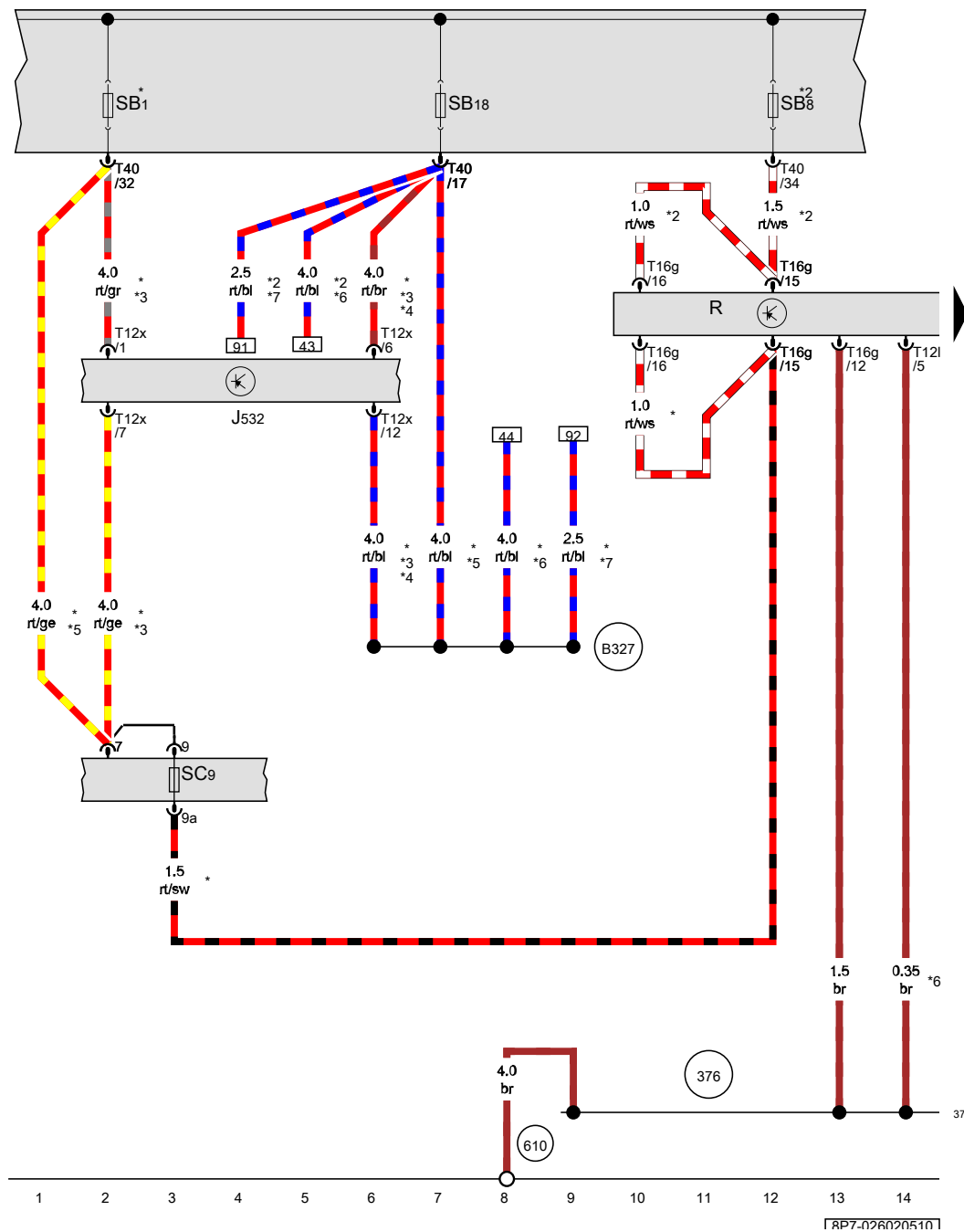
8P7-025040108

Radio system, generation II+

From March 2008



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Voltage stabiliser, Radio

- J532 Voltage stabiliser
- R Radio
- SB1 Fuse 1 on fuse holder B
- SB8 Fuse 8 on fuse holder B
- SC9 Fuse 9 on fuse holder C
- SB18 Fuse 18 on fuse holder B
- T12l 12-pin connector
- T12x 12-pin connector
- T16g 16-pin connector
- T40 40-pin connector

376 Earth connection 11, in main wiring harness

610 Earth point (audio), front below centre console

B327 Positive connection 13 (30a) in main wiring harness

- * From May 2009
- *2 Up to April 2009
- *3 Only models with start/stop system
- *4 Only models with 400 W voltage stabiliser
- *5 Only models with no start/stop system
- *6 Only models with BOSE sound system
- *7 Only models with amplifier

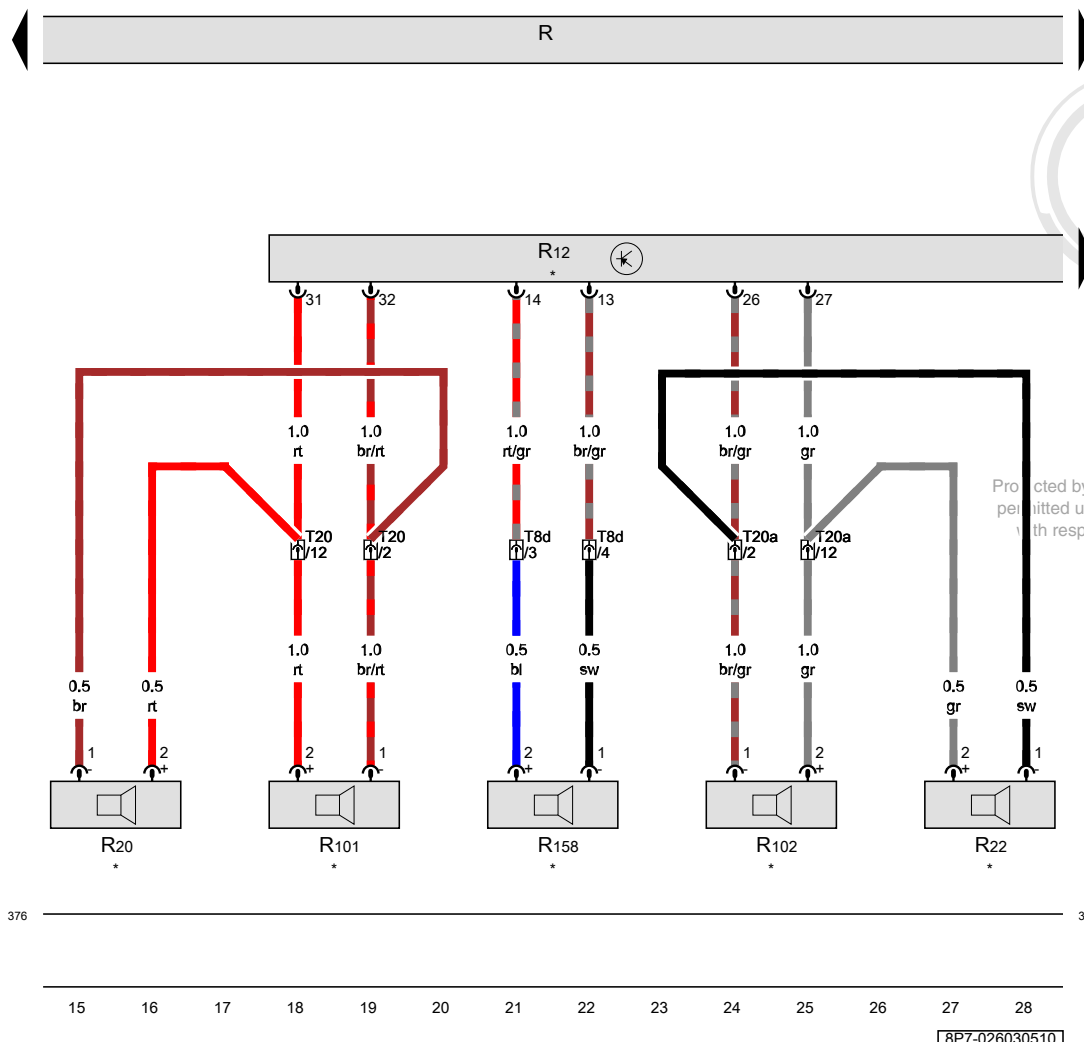
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Radio, Amplifier, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker, Centre mid-range and treble loudspeaker

- R Radio
- R12 Amplifier
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R158 Centre mid-range and treble loudspeaker
- T8d 8-pin connector, behind centre console
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar

376 Earth connection 11, in main wiring harness

* Only models with BOSE sound system

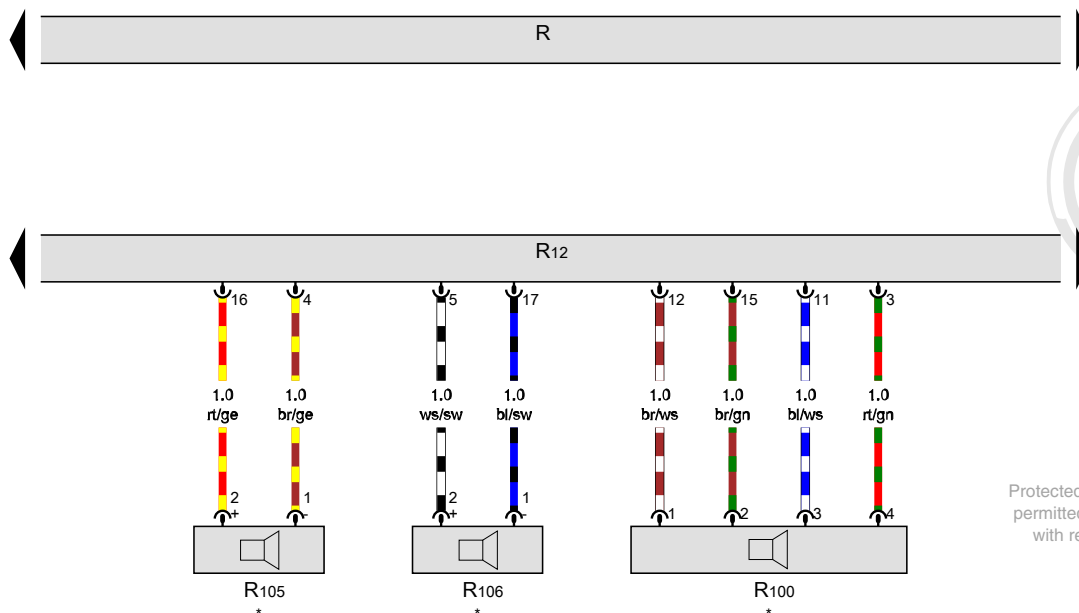


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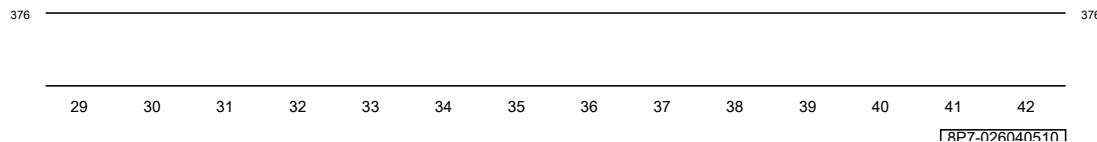
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Radio, Amplifier, Bass loudspeaker, Rear left mid-range loudspeaker, Rear right mid-range loudspeaker

- R Radio
- R12 Amplifier
- R100 Bass loudspeaker
- R105 Rear left mid-range loudspeaker
- R106 Rear right mid-range loudspeaker
- 376 Earth connection 11, in main wiring harness
- * Only models with BOSE sound system



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Radio, Amplifier, Internal microphone

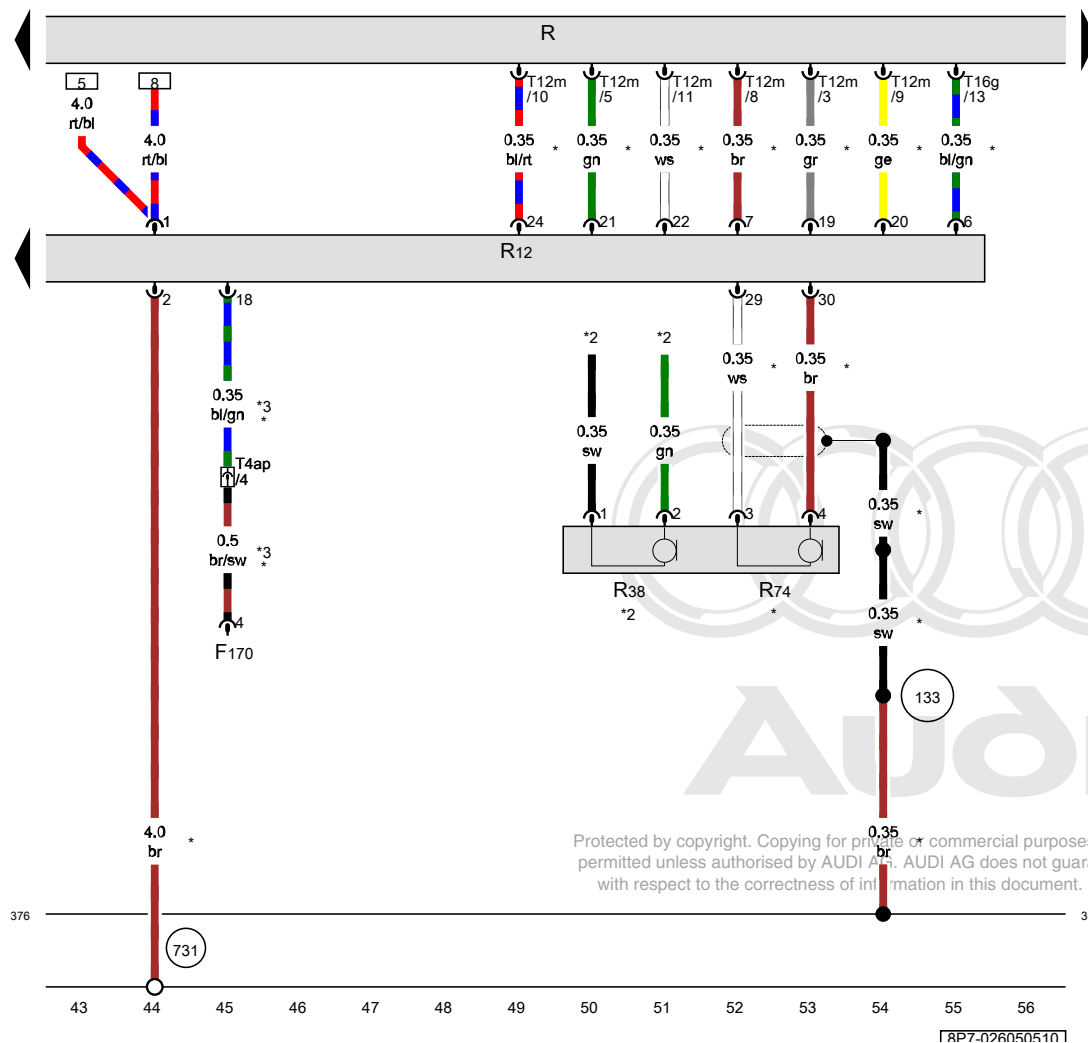
- F170 Right latch switch for convertible roof
- R Radio
- R12 Amplifier
- R38 Telephone microphone
- R74 Internal microphone
- T4ap 4-pin connector
- T12m 12-pin connector
- T16g 16-pin connector

133 Earth connection, in loudspeaker wiring harness

376 Earth connection 11, in main wiring harness

731 Earth point 2, on right rear wheel housing

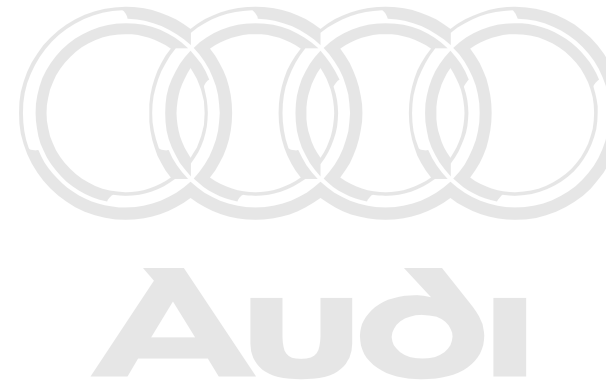
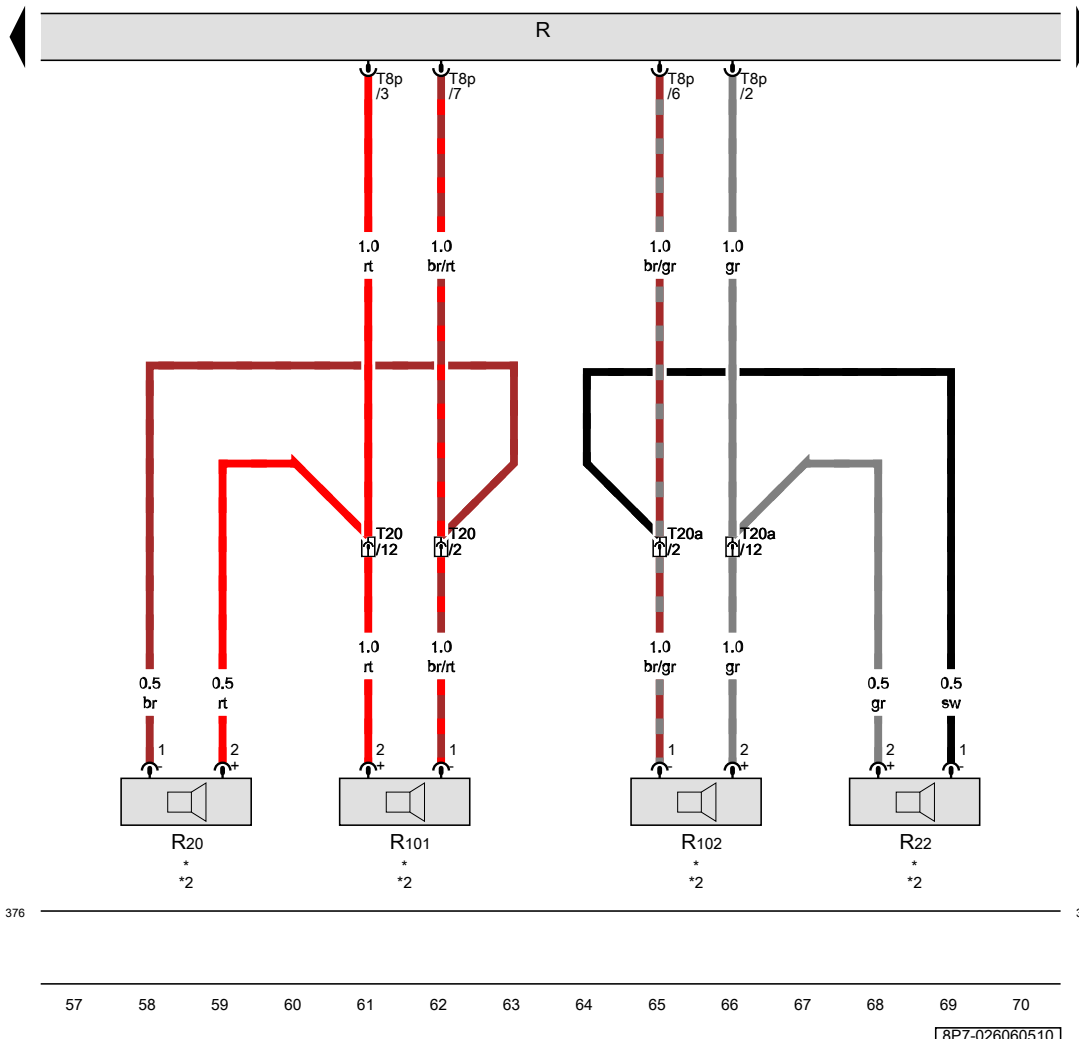
- * Only models with BOSE sound system
- *2 see applicable current flow diagram for preparation for mobile telephone
- *3 see applicable current flow diagram for convertible roof





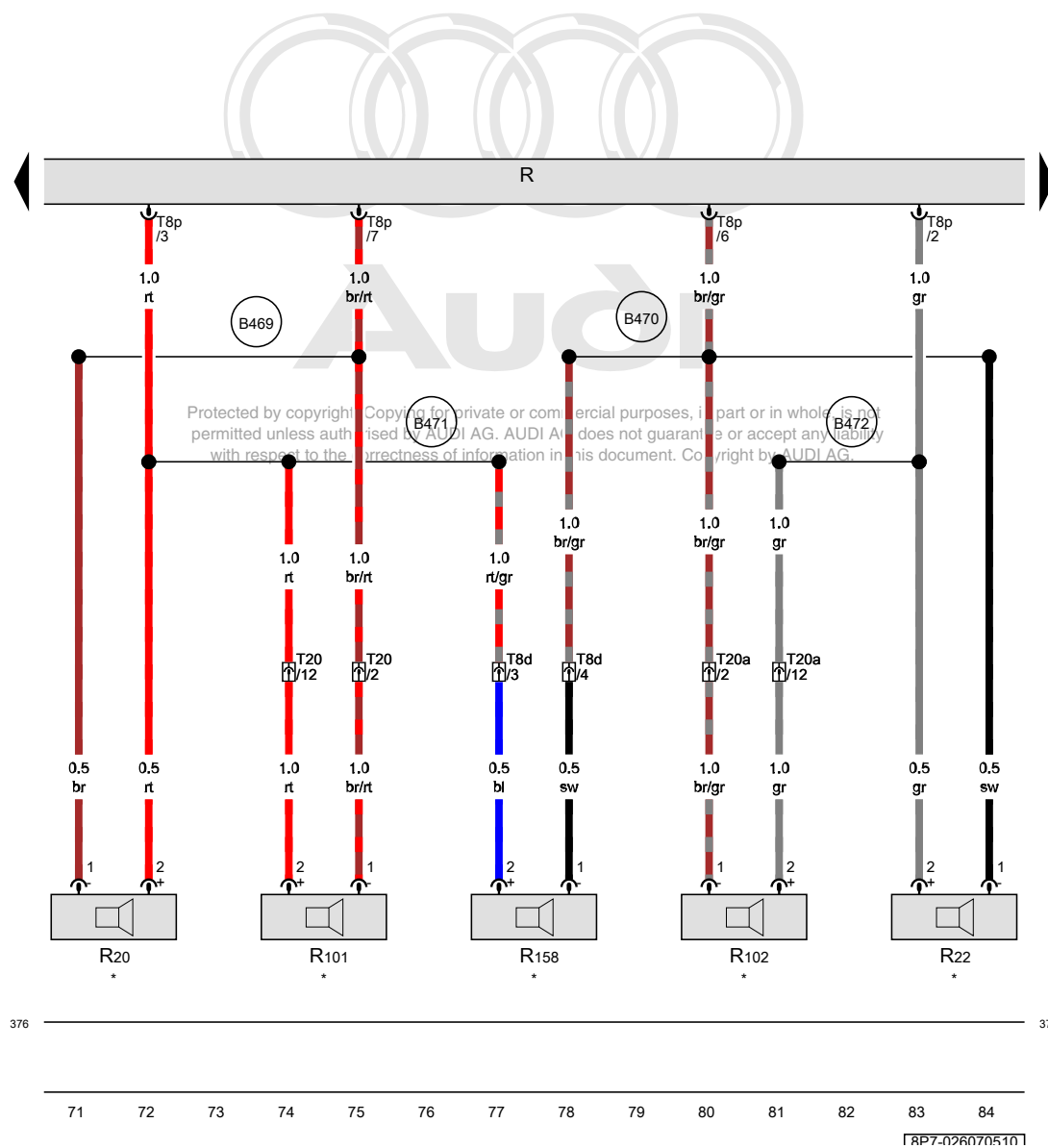
Radio, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker

- R Radio
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- T8p 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- 376 Earth connection 11, in main wiring harness
- * Only models with no amplifier
- *2 Only models with passive loudspeakers



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Radio, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker, Centre mid-range and treble loudspeaker

- R Radio
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R158 Centre mid-range and treble loudspeaker
- T8d 8-pin connector, behind centre console
- T8p 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar

- 376 Earth connection 11, in main wiring harness
- B469 Connection 5, in main wiring harness
- B470 Connection 6, in main wiring harness
- B471 Connection 7, in main wiring harness
- B472 Connection 8, in main wiring harness
- * Only models with amplifier

Radio, Amplifier, Rear left mid-range loudspeaker, Rear right mid-range loudspeaker

R Radio
R12 Amplifier
R100 Bass loudspeaker
R105 Rear left mid-range loudspeaker
R106 Rear right mid-range loudspeaker
T12m 12-pin connector
T16g 16-pin connector

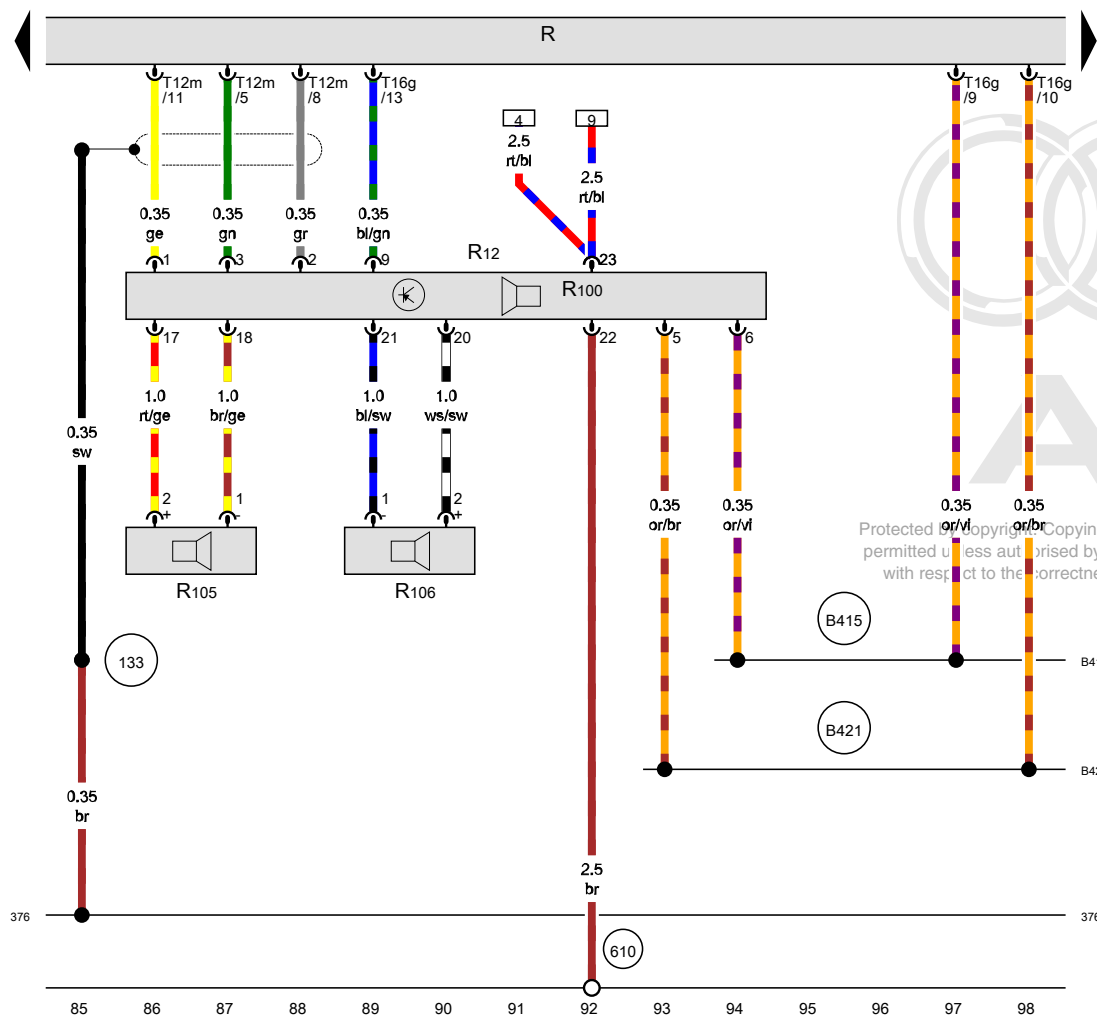
133 Earth connection, in loudspeaker wiring harness

376 Earth connection 11, in main wiring harness

610 Earth point (audio), front below centre console

B415 Connection 1 (infotainment CAN bus, high), in main wiring harness

B421 Connection 1 (infotainment CAN bus, low), in main wiring harness



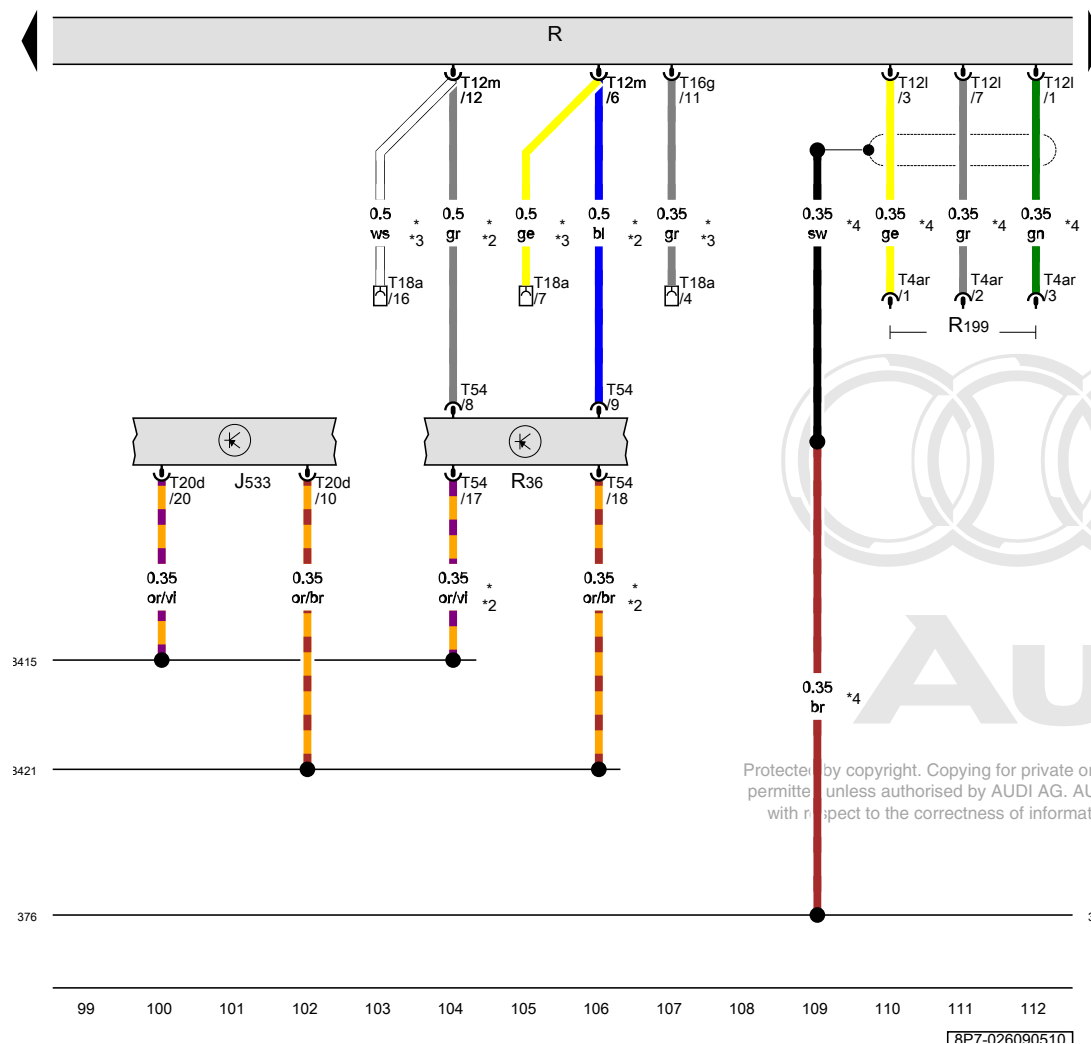
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Data bus diagnostic interface, Radio, Telephone transmitter and receiver unit, Connection for external audio sources

- J533 Data bus diagnostic interface
- R Radio
- R36 Telephone transmitter and receiver unit
- R199 Connection for external audio sources
- T4ar 4-pin connector
- T12l 12-pin connector
- T12m 12-pin connector
- T16g 16-pin connector
- T18a 18-pin connector, VDA connector
- T20d 20-pin connector
- T54 54-pin connector

- 376 Earth connection 11, in main wiring harness
- B415 Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421 Connection 1 (infotainment CAN bus, low), in main wiring harness
- * see applicable current flow diagram for preparation for mobile telephone
- *2 Optional equipment
- *3 If fitted
- *4 Only models with connection for external audio sources - AUX-IN socket



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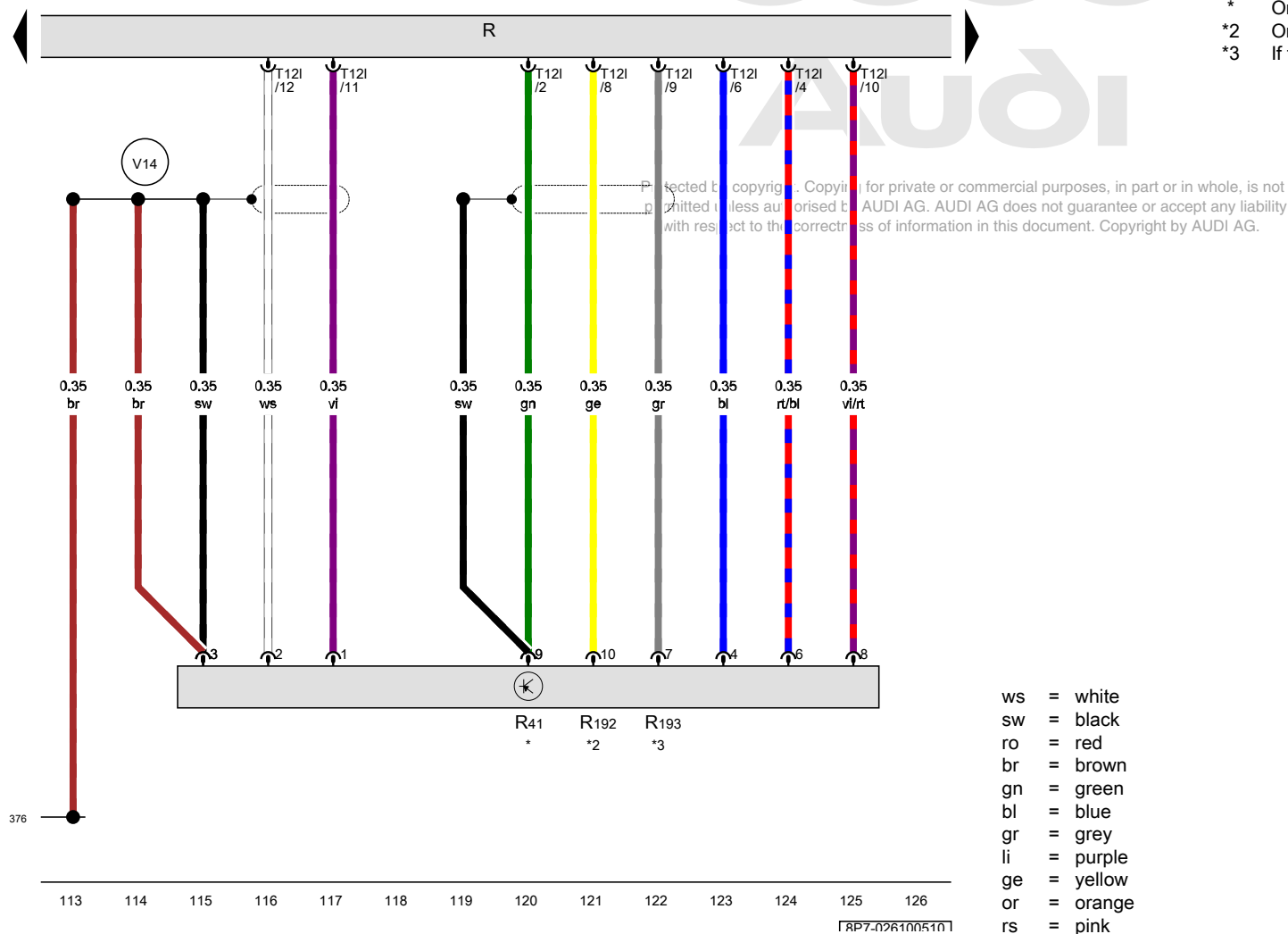
Radio, CD changer, iPod holder, USB connection retainer

- R Radio
- R41 CD changer
- R192 iPod holder
- R193 USB connection retainer
- T12l 12-pin connector

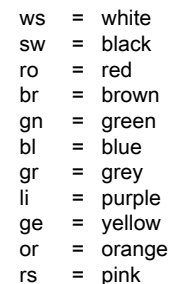
376 Earth connection 11, in main wiring harness

V14 Connection (screening), in CD changer wiring harness

- * Only models with CD changer
- *2 Only models with iPod holder
- *3 If fitted



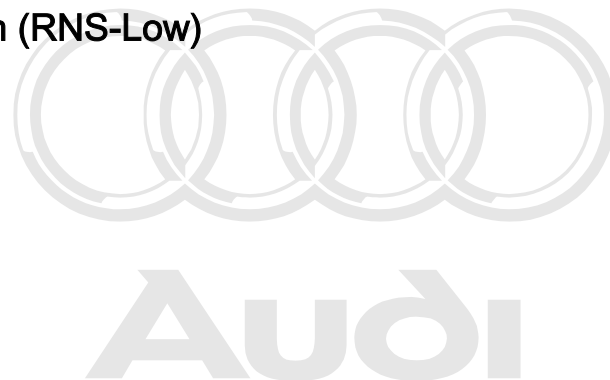
J393	Convenience system central control unit
J519	Onboard supply control unit
R	Radio
R24	Aerial amplifier
R111	Aerial amplifier 2
R252	Left windscreen aerial
R253	Right windscreen aerial
T3u	3-pin connector
T3v	3-pin connector
T18	18-pin connector
T52c	52-pin connector
*	Up to April 2009
*2	From May 2009
*3	Gradually discontinued



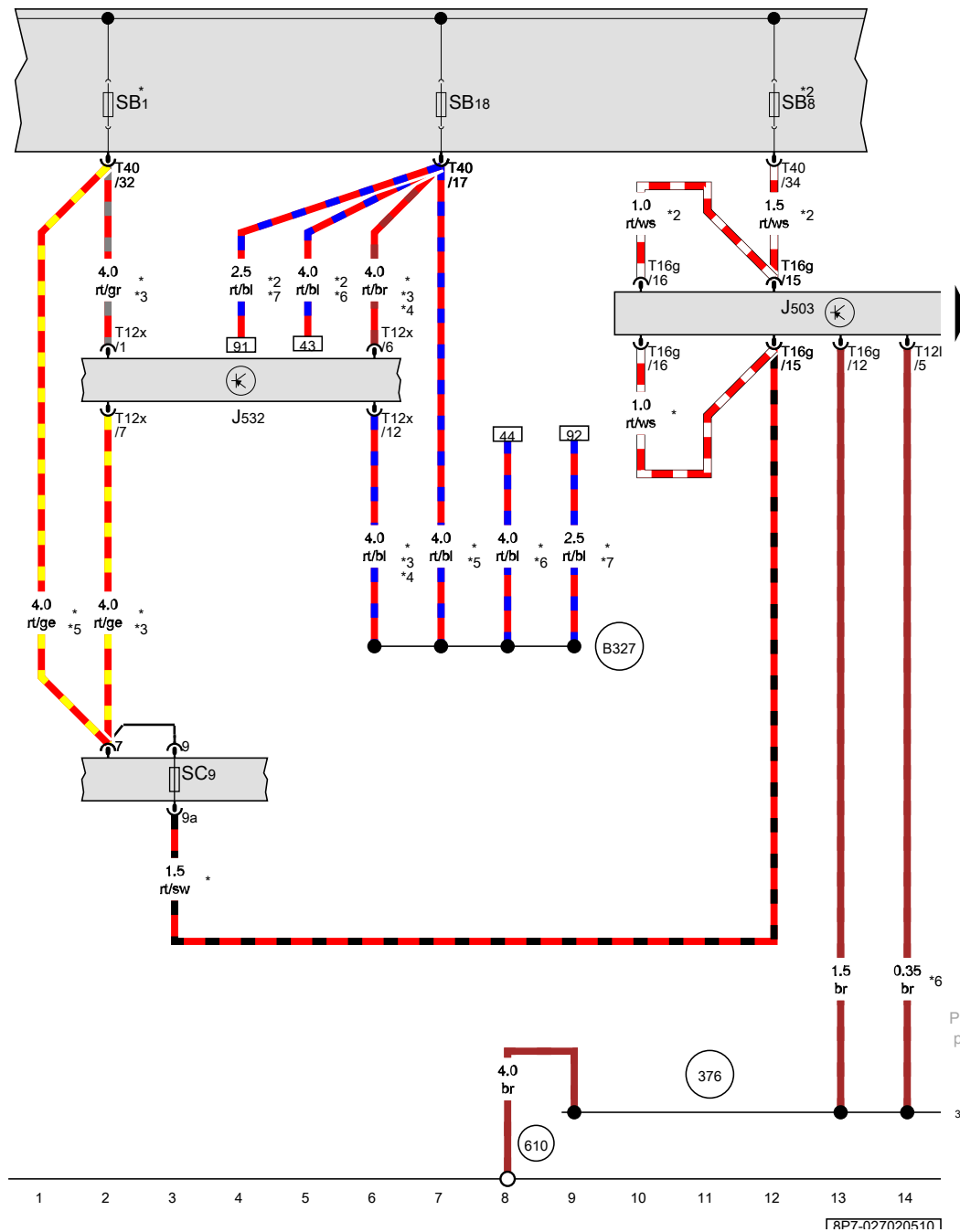


Radio navigation system (RNS-Low)

From March 2008



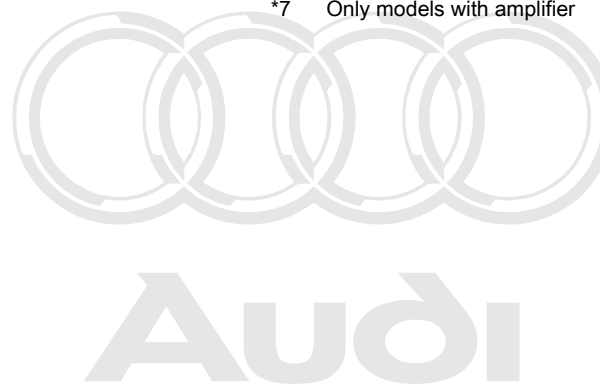
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Control unit with display for radio and navigation, Voltage stabiliser

- J503 Control unit with display for radio and navigation
- J532 Voltage stabiliser
- SB1 Fuse 1 on fuse holder B
- SB8 Fuse 8 on fuse holder B
- SC9 Fuse 9 on fuse holder C
- SB18 Fuse 18 on fuse holder B
- T12l 12-pin connector
- T12x 12-pin connector
- T16g 16-pin connector
- T40 40-pin connector

- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), front below centre console
- B327 Positive connection 13 (30a) in main wiring harness
- * From May 2009
- *2 Up to April 2009
- *3 Only models with start/stop system
- *4 Only models with 400 W voltage stabiliser
- *5 Only models with no start/stop system
- *6 Only models with BOSE sound system
- *7 Only models with amplifier



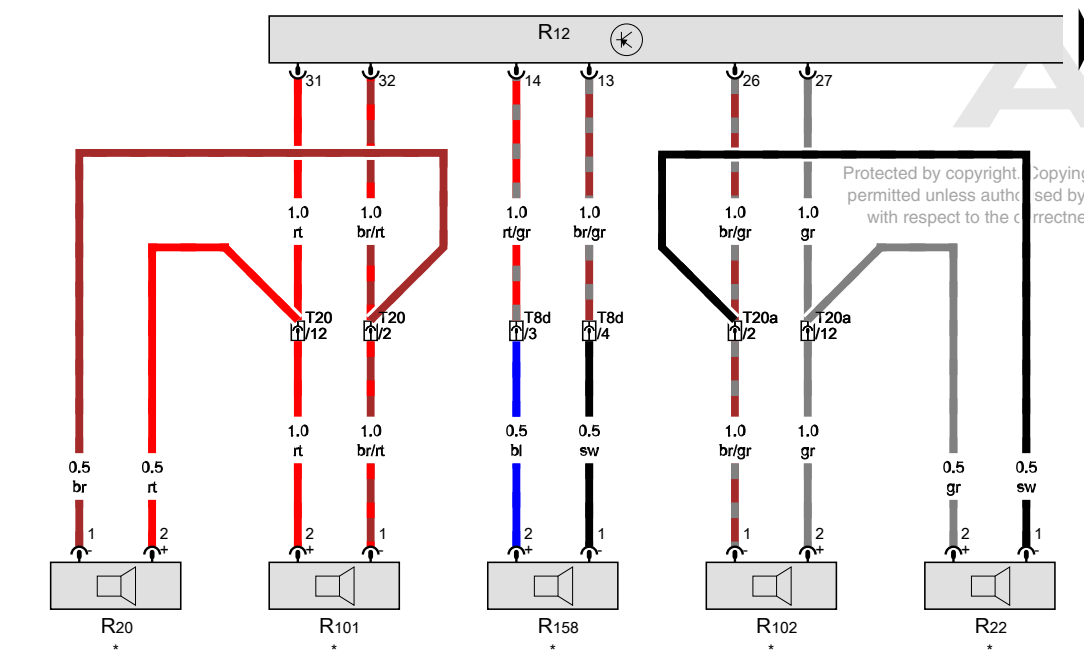
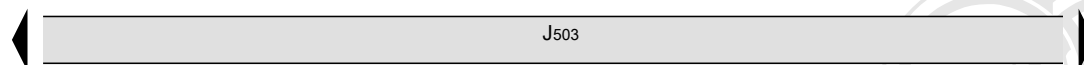
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Control unit with display for radio and navigation, Amplifier, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker, Centre mid-range and treble loudspeaker

- J503 Control unit with display for radio and navigation
- R12 Amplifier
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R158 Centre mid-range and treble loudspeaker
- T8d 8-pin connector, behind centre console
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- 376 Earth connection 11, in main wiring harness

* Only models with BOSE sound system



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376

15 16 17 18 19 20 21 22 23 24 25 26 27 28

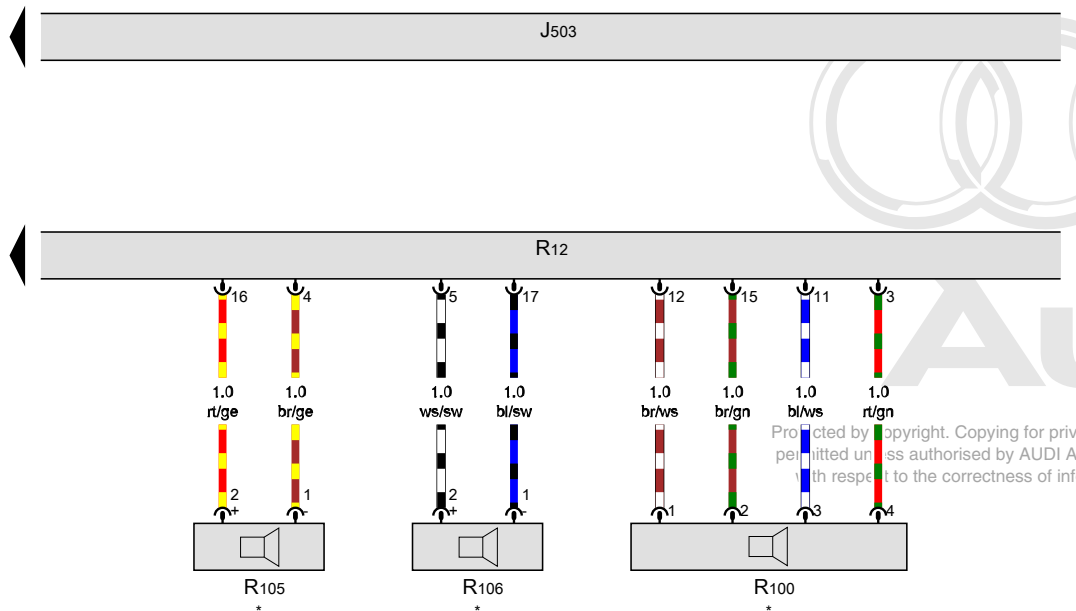
18P7-0270305101

Control unit with display for radio and navigation, Amplifier, Bass loudspeaker, Rear left mid-range loudspeaker, Rear right mid-range loudspeaker

- J503 Control unit with display for radio and navigation
- R12 Amplifier
- R100 Bass loudspeaker
- R105 Rear left mid-range loudspeaker
- R106 Rear right mid-range loudspeaker

376 Earth connection 11, in main wiring harness

* Only models with BOSE sound system



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376

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18P7-0270405101

Control unit with display for radio and navigation, Amplifier, Internal microphone

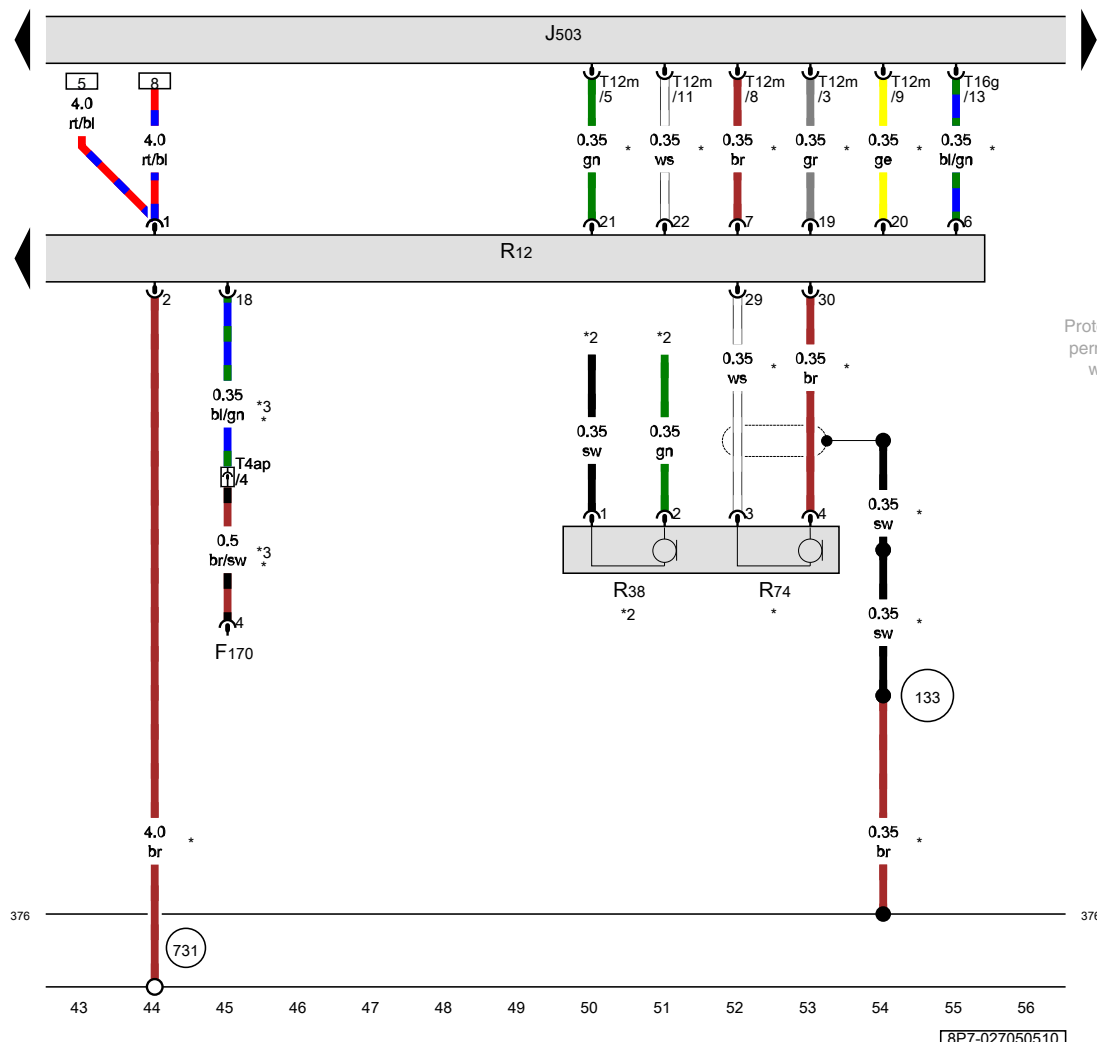
- F170 Right latch switch for convertible roof
- J503 Control unit with display for radio and navigation
- R12 Amplifier
- R38 Telephone microphone
- R74 Internal microphone
- T4ap 4-pin connector
- T12m 12-pin connector
- T16g 16-pin connector

133 Earth connection, in loudspeaker wiring harness

376 Earth connection 11, in main wiring harness

731 Earth point 2, on right rear wheel housing

- * Only models with BOSE sound system
- *2 see applicable current flow diagram for preparation for mobile telephone
- *3 see applicable current flow diagram for convertible roof

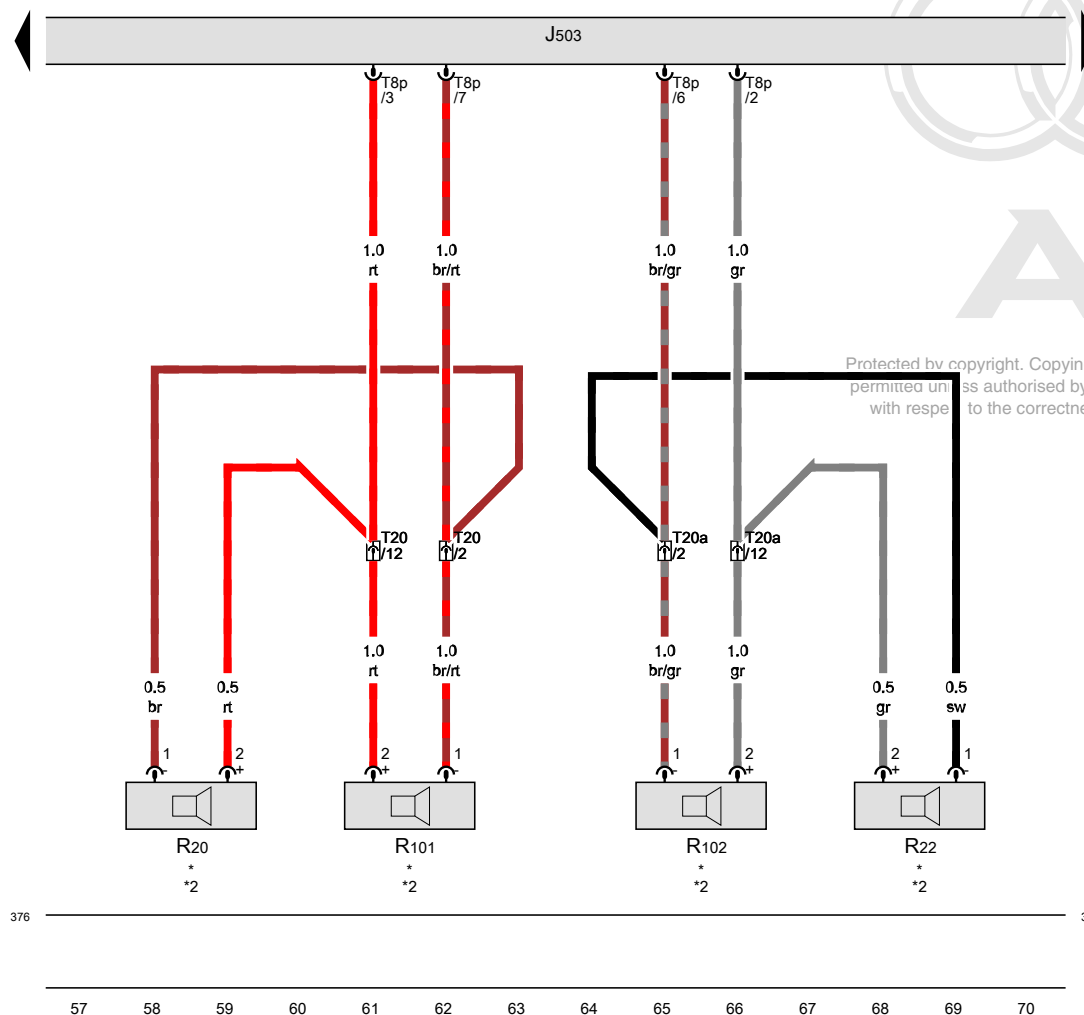


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Control unit with display for radio and navigation, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker

- J503 Control unit with display for radio and navigation
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- T8p 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- 376 Earth connection 11, in main wiring harness
- * Only models with no amplifier
- *2 Only models with passive loudspeakers



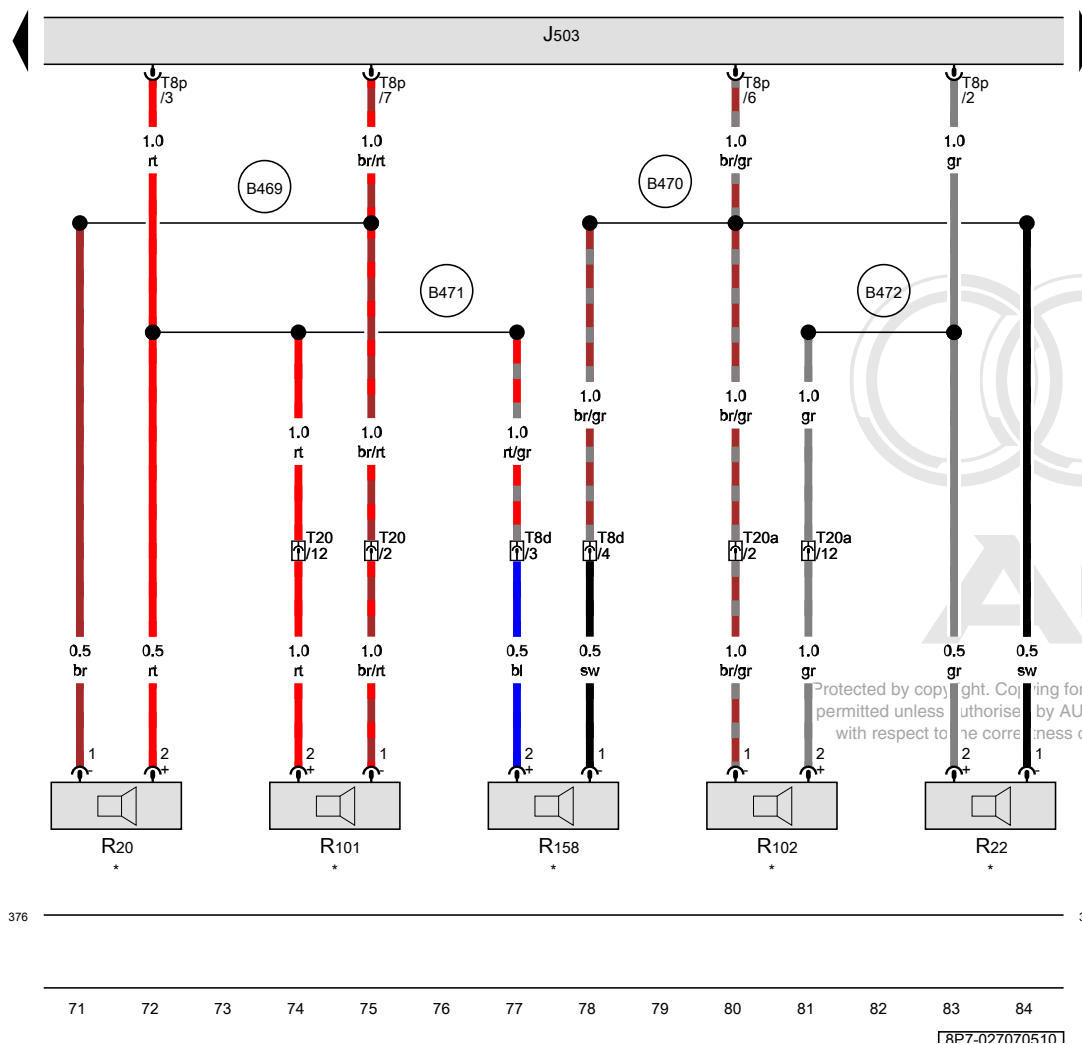
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Control unit with display for radio and navigation, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker, Centre mid-range and treble loudspeaker

- J503 Control unit with display for radio and navigation
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R158 Centre mid-range and treble loudspeaker
- T8d 8-pin connector, behind centre console
- T8p 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar

- 376 Earth connection 11, in main wiring harness
- B469 Connection 5, in main wiring harness
- B470 Connection 6, in main wiring harness
- B471 Connection 7, in main wiring harness
- B472 Connection 8, in main wiring harness
- * Only models with amplifier



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Control unit with display for radio and navigation, Amplifier, Rear left mid-range loudspeaker, Rear right mid-range loudspeaker

J503 Control unit with display for radio and navigation
R12 Amplifier
R100 Bass loudspeaker
R105 Rear left mid-range loudspeaker
R106 Rear right mid-range loudspeaker
T12m 12-pin connector
T16g 16-pin connector

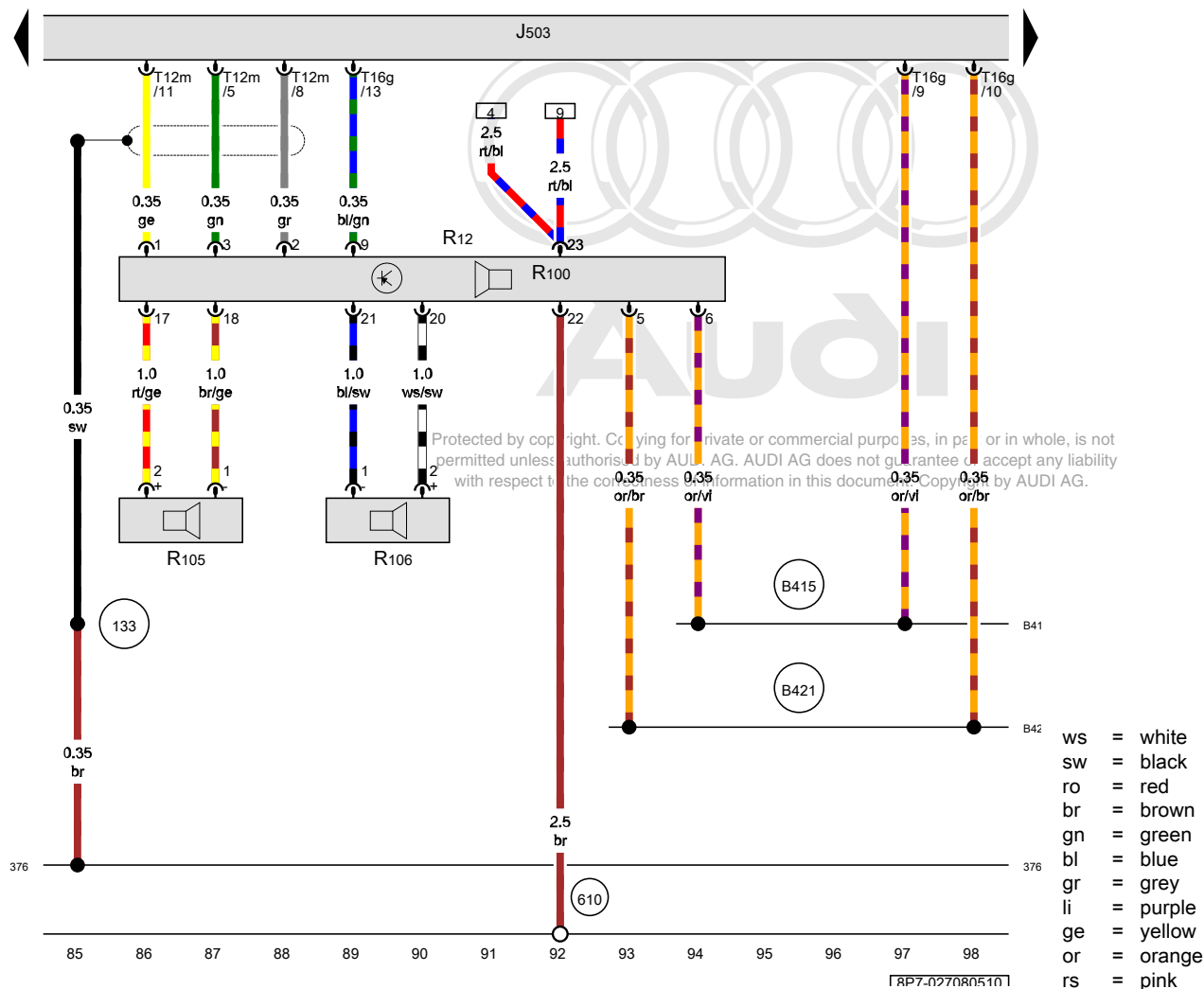
133 Earth connection, in loudspeaker wiring harness

376 Earth connection 11, in main wiring harness

610 Earth point (audio), front below centre console

B415 Connection 1 (infotainment CAN bus, high), in main wiring harness

B421 Connection 1 (infotainment CAN bus, low), in main wiring harness



Control unit with display for radio and navigation, Data bus diagnostic interface, Telephone transmitter and receiver unit, Connection for external audio sources

J503 Control unit with display for radio and navigation

J533 Data bus diagnostic interface

R36 Telephone transmitter and receiver unit

R199 Connection for external audio sources

T4ar 4-pin connector

T12| 12-pin connector

T12m 12-pin connector

T16g 16-pin connector

T18a 18-pin connector, VDA connector

T20d 20-pin connector

T200 20-pin connector
T54 54-pin connector

(376) Earth connection 11, in main wiring harness

B415 Connection 1 (infotainment CAN bus, high), in main wiring harness

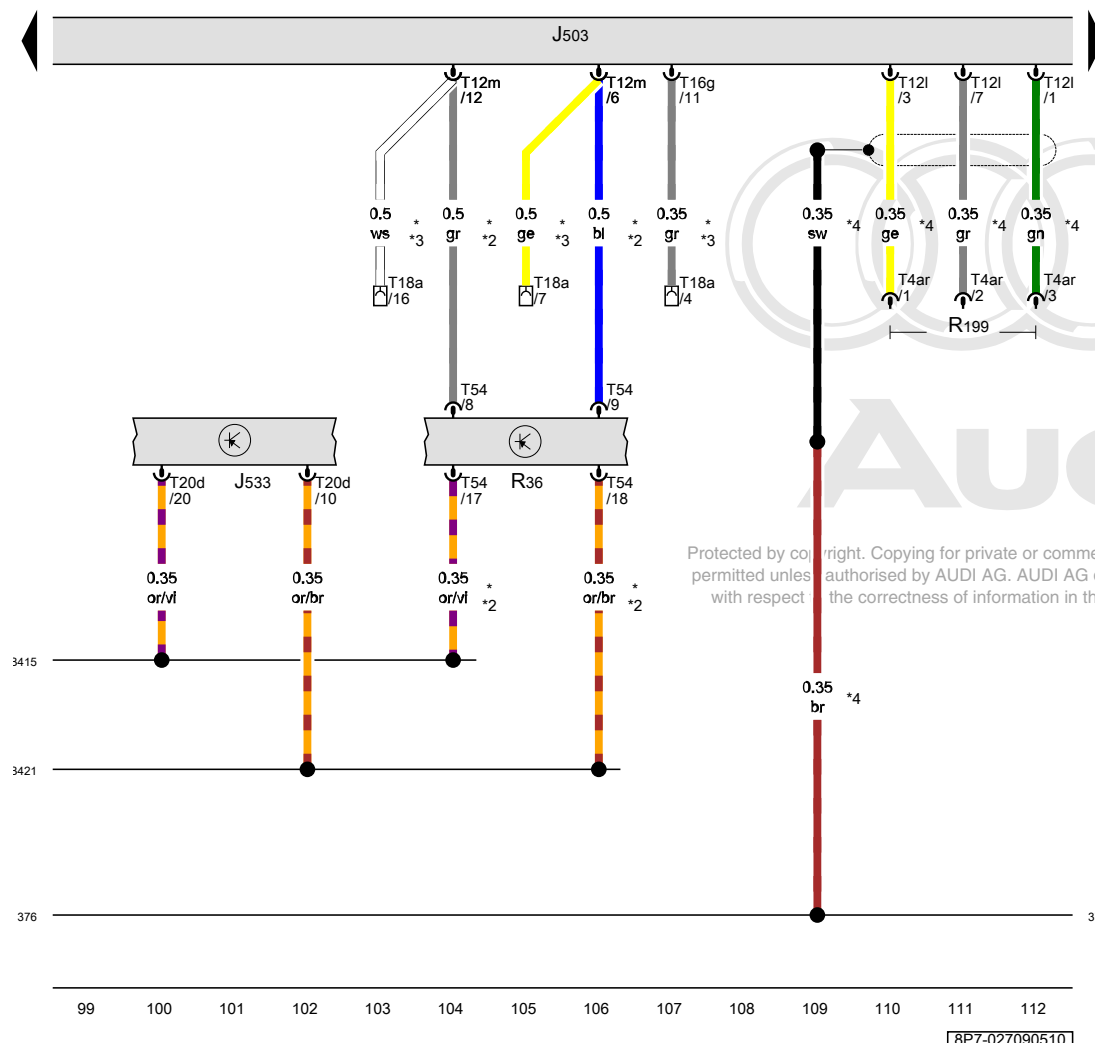
B421 Connection 1 (infotainment CAN bus, low), in main wiring harness

* see applicable current flow diagram for preparation for mobile telephone

*2 Optional equipment

*3 If fitted

*4 Only models with connection for external audio sources - AUX-IN socket



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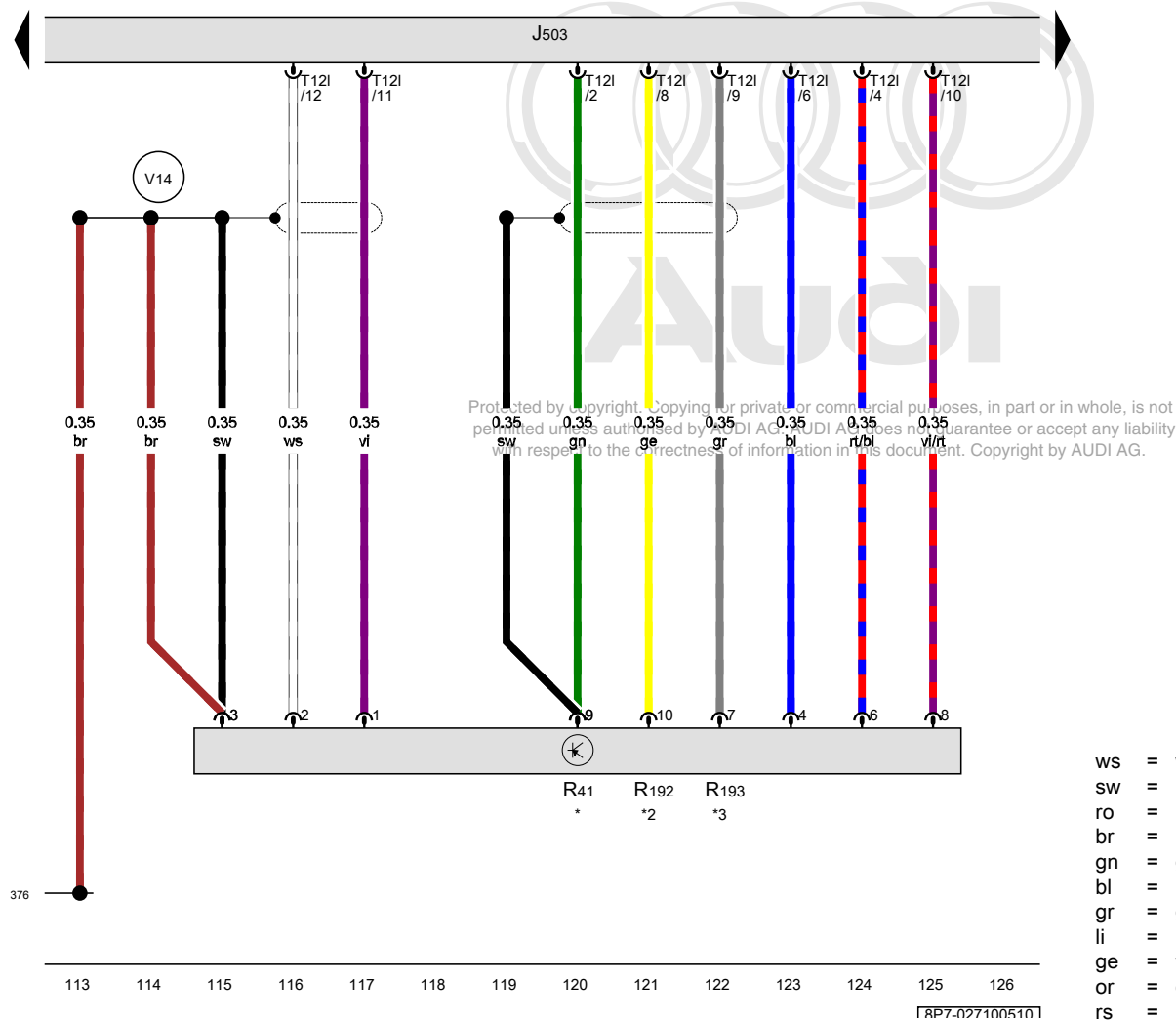
Control unit with display for radio and navigation, CD changer, iPod holder, USB connection retainer

- J503 Control unit with display for radio and navigation
- R41 CD changer
- R192 iPod holder
- R193 USB connection retainer
- T12l 12-pin connector

376 Earth connection 11, in main wiring harness

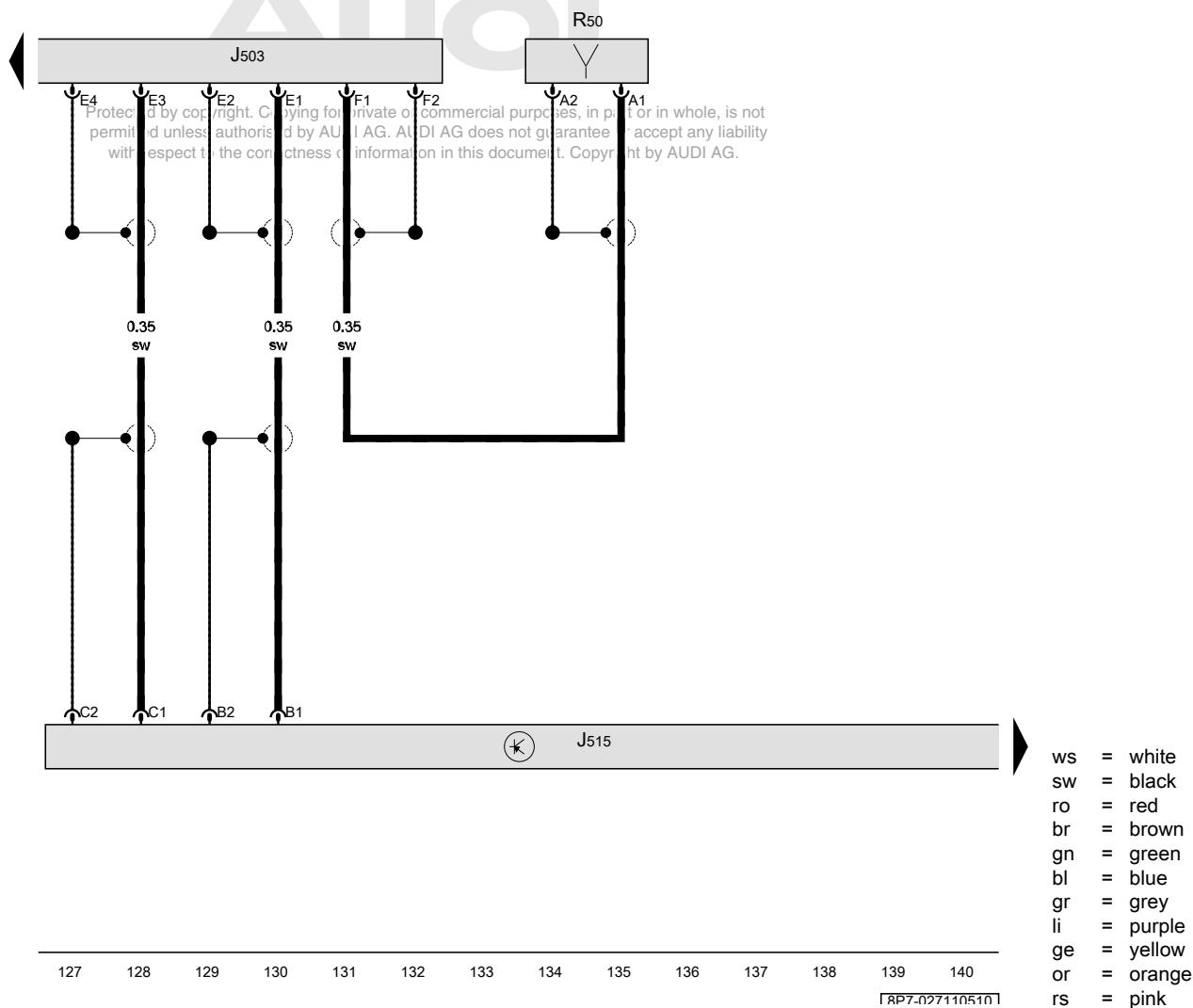
V14 Connection (screening), in CD changer wiring harness

- * Only models with CD changer
- *2 Only models with iPod holder
- *3 If fitted



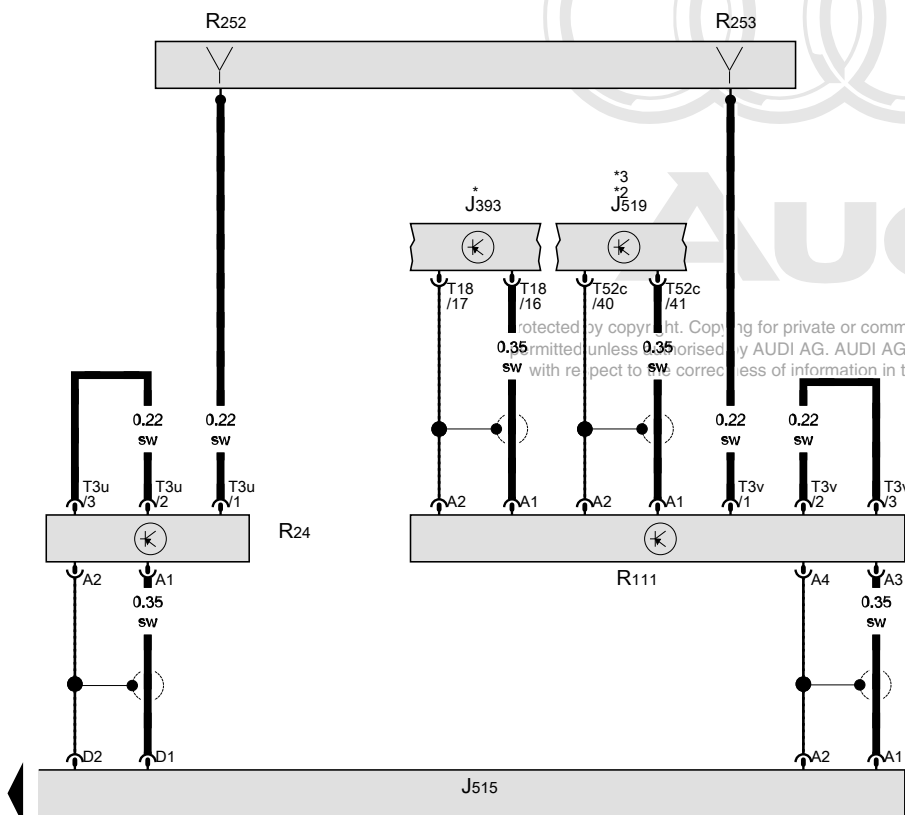
Control unit with display for radio and navigation, GPS aerial

J503 Control unit with display for radio and navigation
J515 Aerial selection control unit
R50 GPS aerial



Convenience system central control unit, Onboard supply control unit, Aerial amplifier, Aerial amplifier 2

- J393 Convenience system central control unit
- J515 Aerial selection control unit
- J519 Onboard supply control unit
- R24 Aerial amplifier
- R111 Aerial amplifier 2
- R252 Left windscreen aerial
- R253 Right windscreen aerial
- T3u 3-pin connector
- T3v 3-pin connector
- T18 18-pin connector
- T52c 52-pin connector
- * Up to April 2009
- *2 From May 2009
- *3 Gradually discontinued



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

141 142 143 144 145 146 147 148 149 150 151 152 153 154

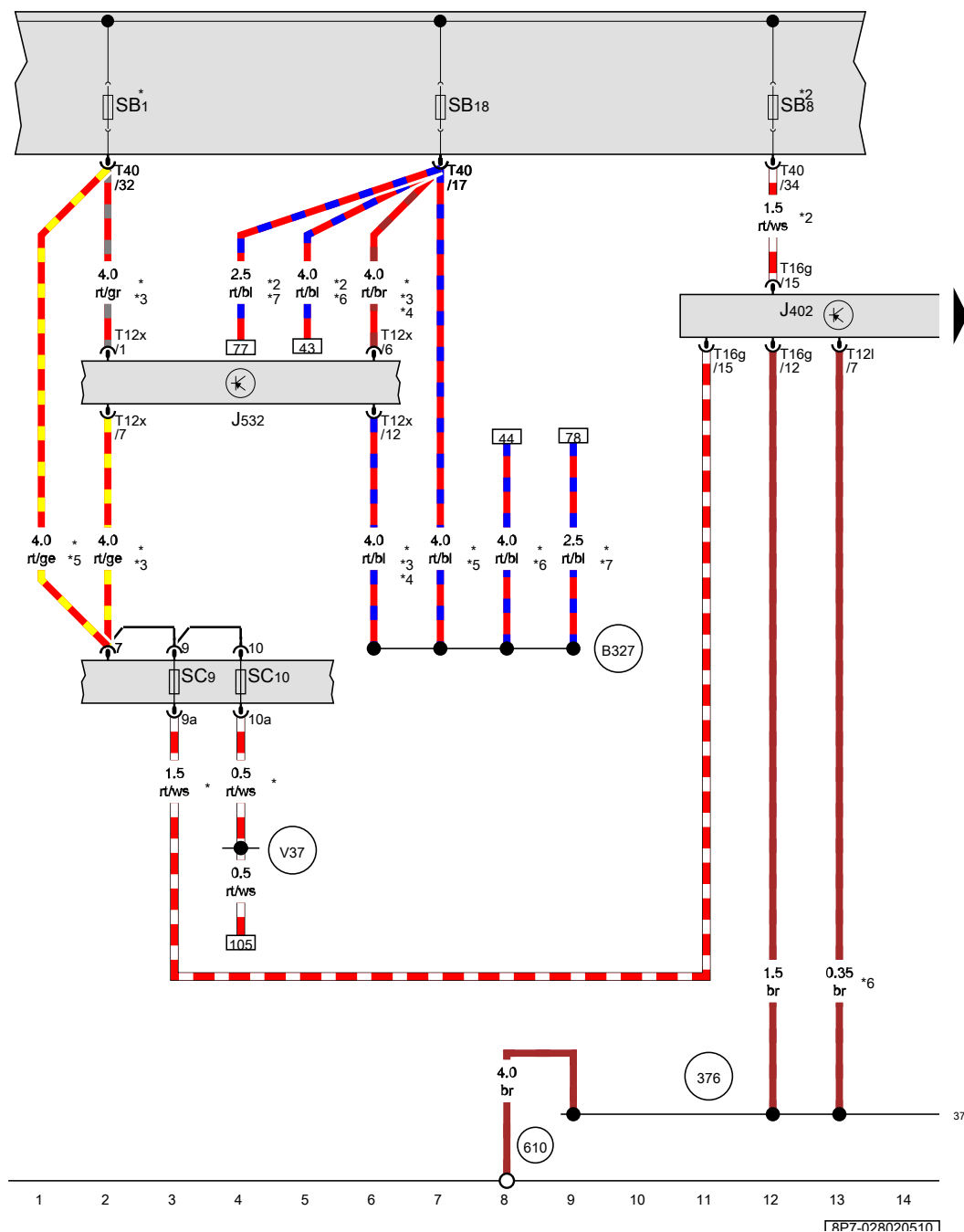
18P7-0271205101

Radio navigation system (RNS-E)

From March 2008



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Navigation operating electronics control unit, Voltage stabiliser

- J402 Navigation operating electronics control unit
- J532 Voltage stabiliser
- SB1 Fuse 1 on fuse holder B
- SB8 Fuse 8 on fuse holder B
- SC9 Fuse 9 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SB18 Fuse 18 on fuse holder B
- T12l 12-pin connector
- T12x 12-pin connector
- T16g 16-pin connector
- T40 40-pin connector

- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), front below centre console
- B327 Positive connection 13 (30a) in main wiring harness
- V37 Positive connection (30), in communication wiring harness

- * From May 2009
- *2 Up to April 2009
- *3 Only models with start/stop system
- *4 Only models with 400 W voltage stabiliser
- *5 Only models with no start/stop system
- *6 Only models with BOSE sound system
- *7 Only models with amplifier

Audi

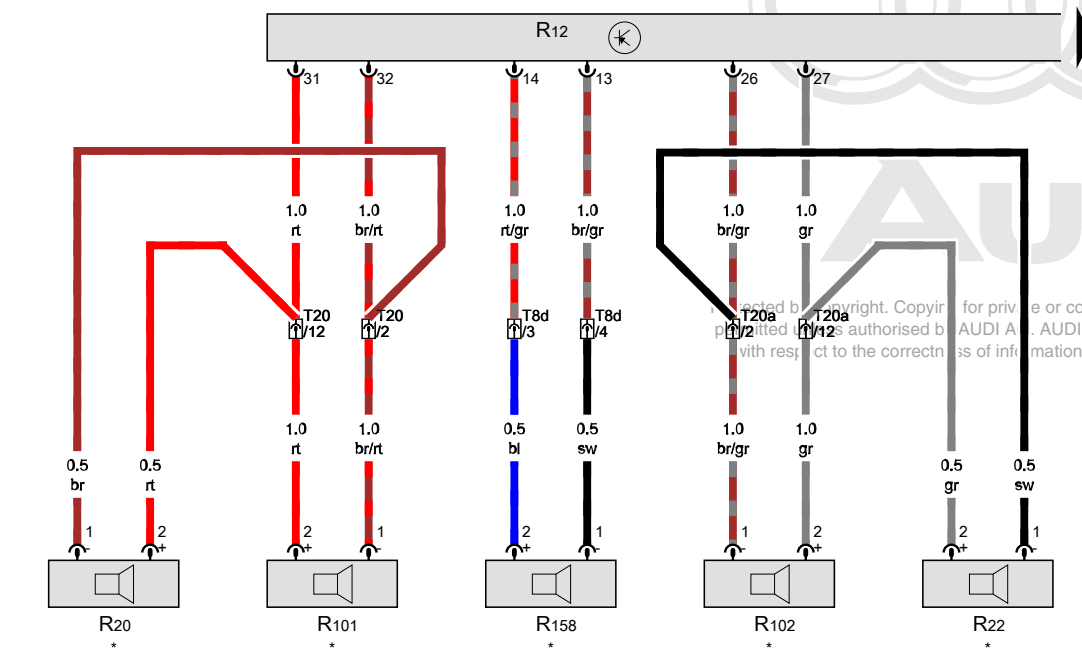
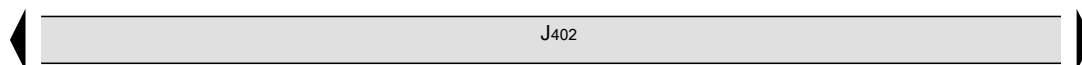
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Navigation operating electronics control unit, Amplifier, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker, Centre mid-range and treble loudspeaker

- J402 Navigation operating electronics control unit
- R12 Amplifier
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R158 Centre mid-range and treble loudspeaker
- T8d 8-pin connector, behind centre console
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar

376 Earth connection 11, in main wiring harness

* Only models with BOSE sound system



376 376

15 16 17 18 19 20 21 22 23 24 25 26 27 28

18P7-0280305101

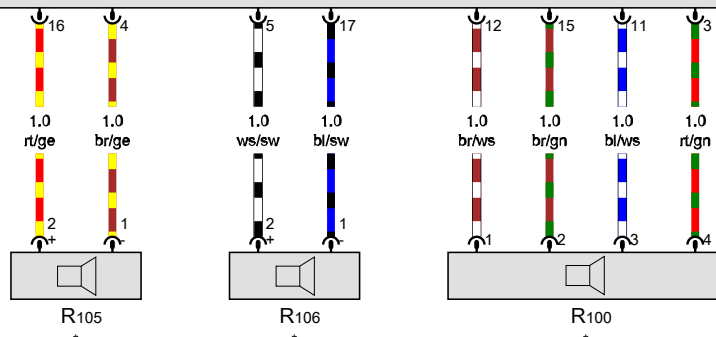
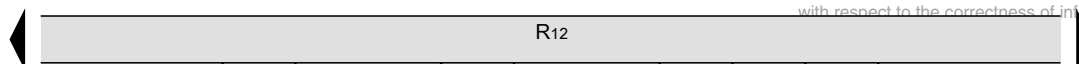
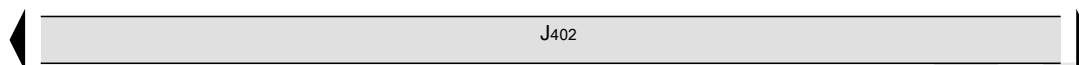
ws = white
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Navigation operating electronics control unit, Amplifier,
Bass loudspeaker, Rear left mid-range loudspeaker, Rear
right mid-range loudspeaker

J402 Navigation operating electronics control unit
R12 Amplifier
R100 Bass loudspeaker
R105 Rear left mid-range loudspeaker
R106 Rear right mid-range loudspeaker

376 Earth connection 11, in main wiring harness

* Only models with BOSE sound system



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376

29 30 31 32 33 34 35 36 37 38 39 40 41 42

18P7-0280405101

Navigation operating electronics control unit, Amplifier,
Internal microphone

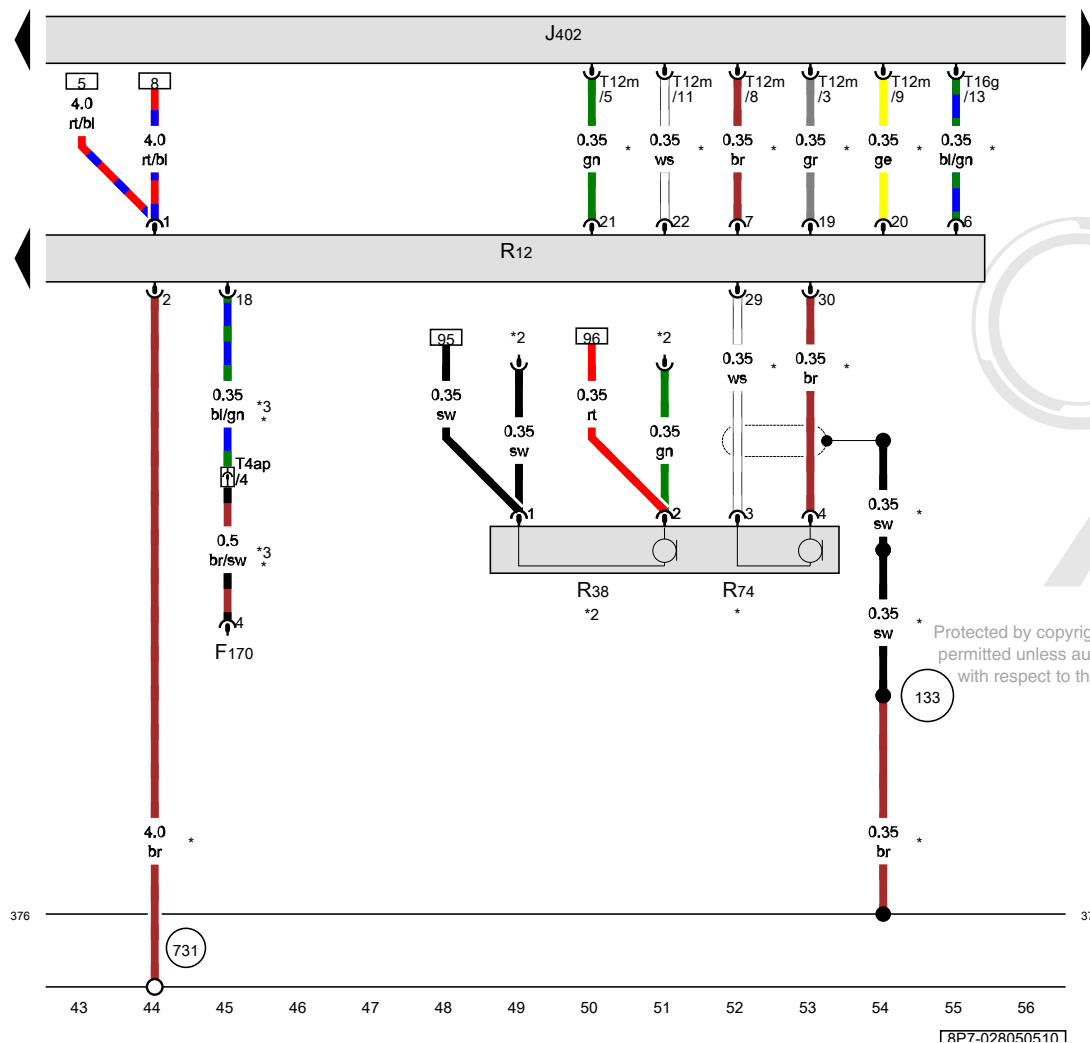
- F170 Right latch switch for convertible roof
- J402 Navigation operating electronics control unit
- R12 Amplifier
- R38 Telephone microphone
- R74 Internal microphone
- T4ap 4-pin connector
- T12m 12-pin connector
- T16g 16-pin connector

133 Earth connection, in loudspeaker wiring harness

376 Earth connection 11, in main wiring harness

731 Earth point 2, on right rear wheel housing

- * Only models with BOSE sound system
- *2 see applicable current flow diagram for preparation for mobile telephone
- *3 see applicable current flow diagram for convertible roof

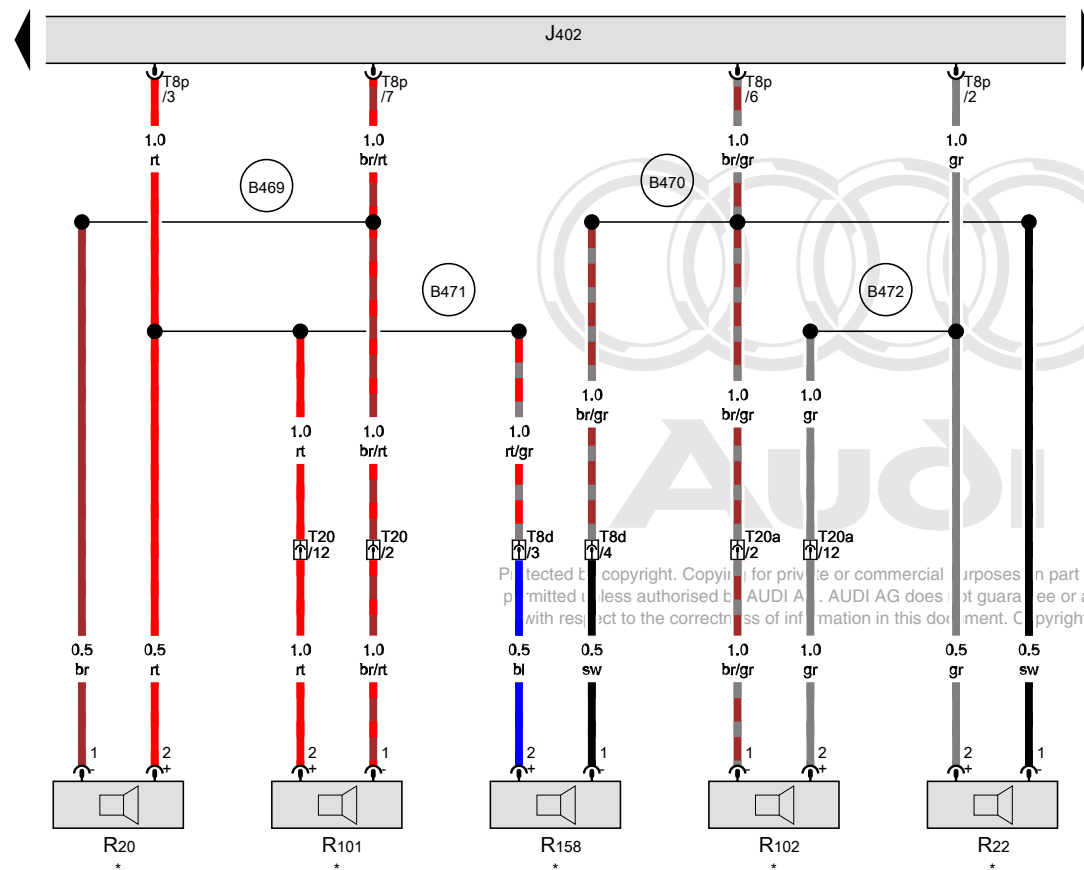


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Navigation operating electronics control unit, Front left treble loudspeaker, Front right treble loudspeaker, Front left mid-range and bass loudspeaker, Front right mid-range and bass loudspeaker, Centre mid-range and treble loudspeaker

- J402 Navigation operating electronics control unit
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R158 Centre mid-range and treble loudspeaker
- T8d 8-pin connector, behind centre console
- T8p 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar

- 376 Earth connection 11, in main wiring harness
- B469 Connection 5, in main wiring harness
- B470 Connection 6, in main wiring harness
- B471 Connection 7, in main wiring harness
- B472 Connection 8, in main wiring harness
- * Only models with amplifier



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376

376

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

18P7-0280605101

Navigation operating electronics control unit, Amplifier,
Rear left mid-range loudspeaker, Rear right mid-range
loudspeaker

J402 Navigation operating electronics control unit
R12 Amplifier
R100 Bass loudspeaker
R105 Rear left mid-range loudspeaker
R106 Rear right mid-range loudspeaker
T12m 12-pin connector
T16g 16-pin connector

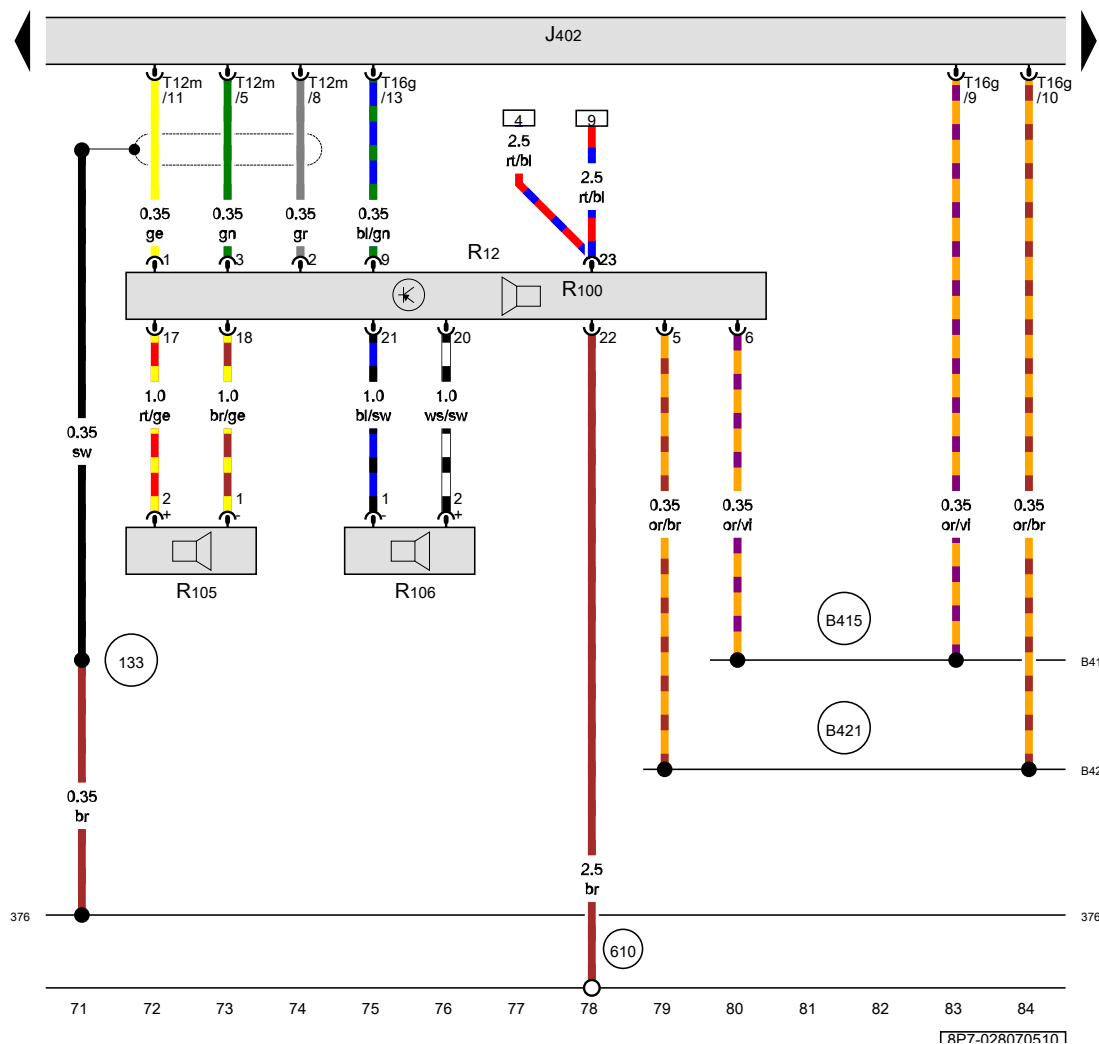
133 Earth connection, in loudspeaker wiring harness

376 Earth connection 11, in main wiring harness

610 Earth point (audio), front below centre console

B415 Connection 1 (infotainment CAN bus, high), in main wiring harness

B421 Connection 1 (infotainment CAN bus, low), in main wiring harness



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Navigation operating electronics control unit, Data bus diagnostic interface, Telephone transmitter and receiver unit

- J402 Navigation operating electronics control unit
- J533 Data bus diagnostic interface
- R36 Telephone transmitter and receiver unit
- T12m 12-pin connector
- T16g 16-pin connector
- T18a 18-pin connector, VDA connector
- T20d 20-pin connector
- T54 54-pin connector

376 Earth connection 11, in main wiring harness

B415 Connection 1 (infotainment CAN bus, high), in main wiring harness

B421 Connection 1 (infotainment CAN bus, low), in main wiring harness

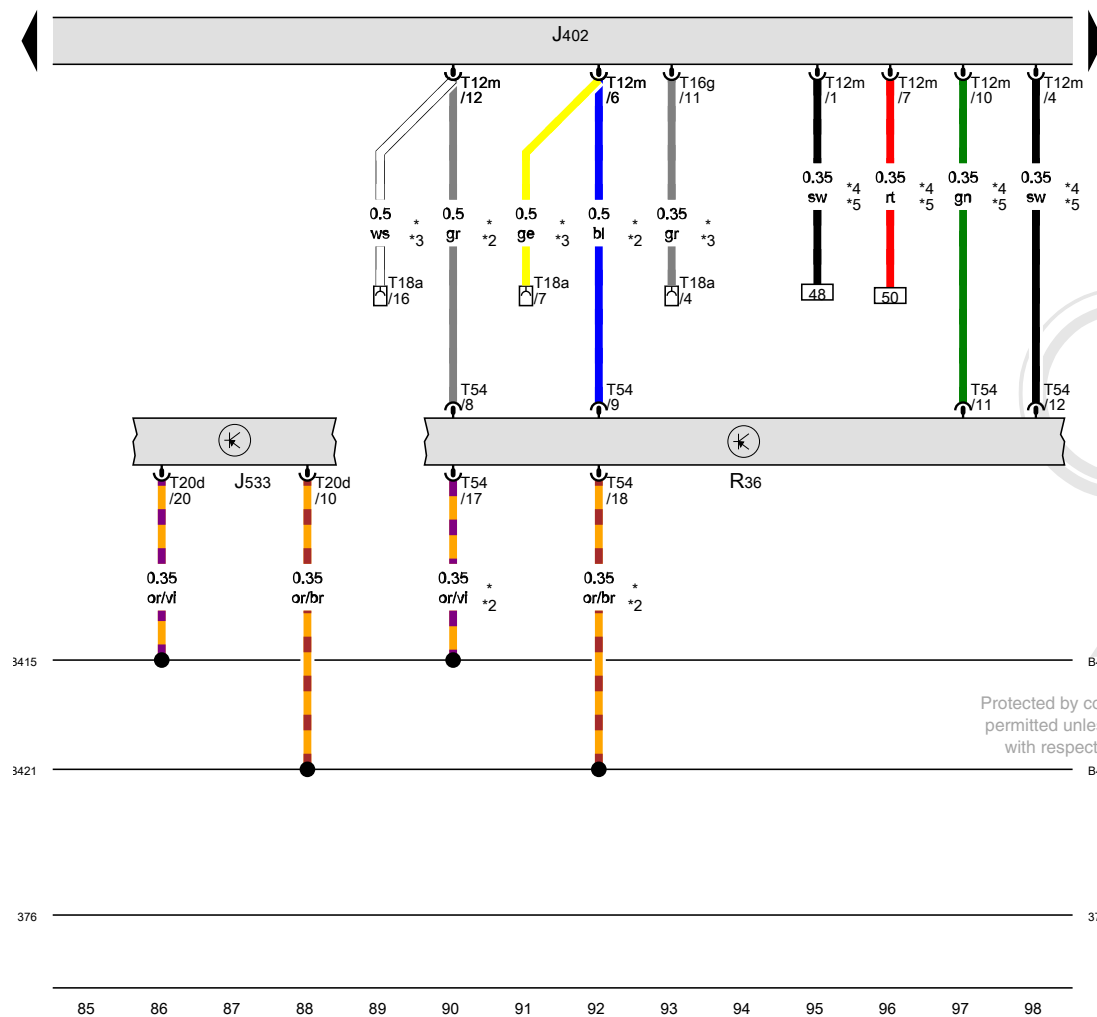
* see applicable current flow diagram for preparation for mobile telephone

*2 Optional equipment

*3 If fitted

*4 Only models with voice control

*5 Gradually discontinued



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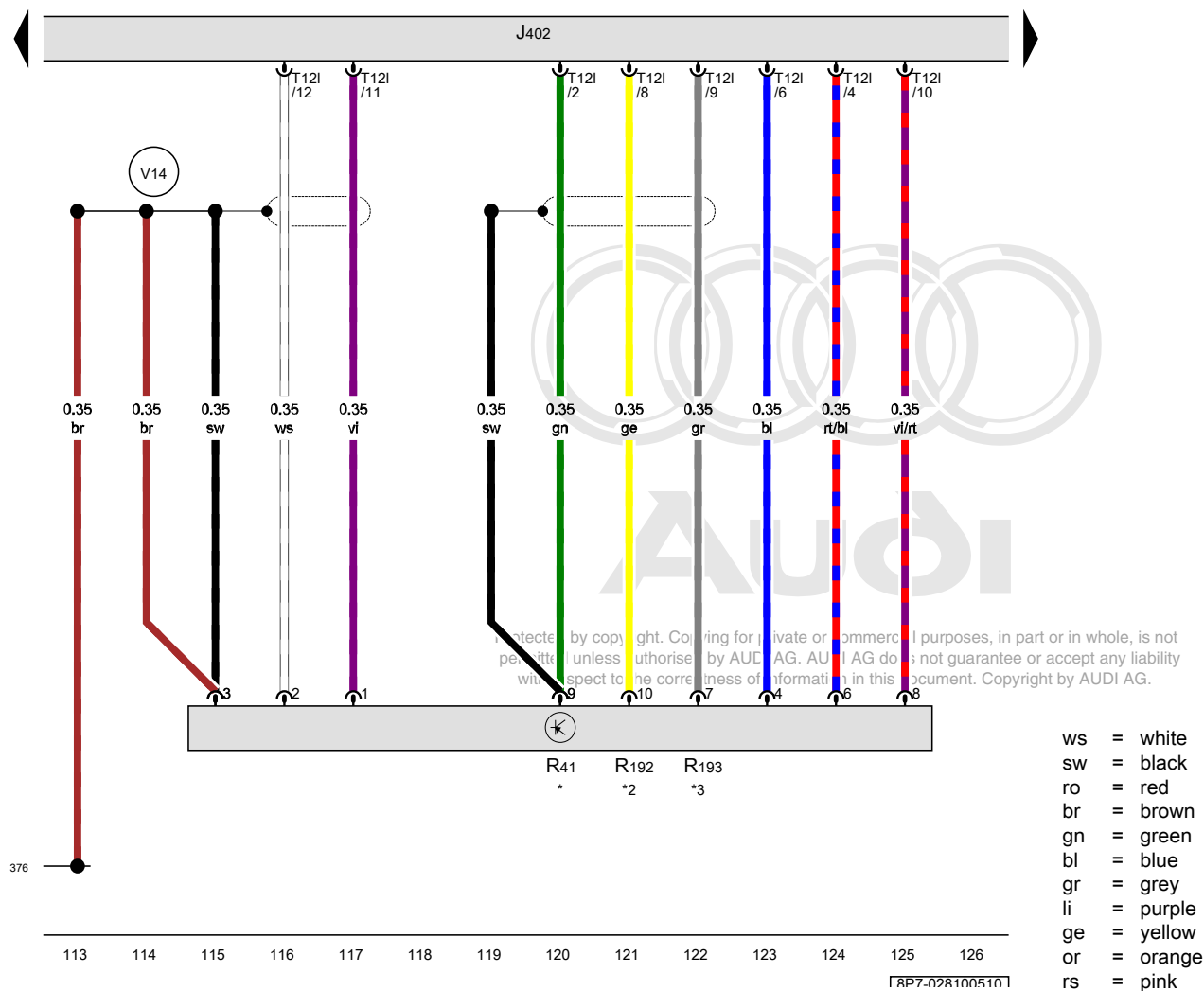
Navigation operating electronics control unit, CD changer, iPod holder, USB connection retainer

J402 Navigation operating electronics control unit
 R41 CD changer
 R192 iPod holder
 R193 USB connection retainer
 T12l 12-pin connector

376 Earth connection 11, in main wiring harness

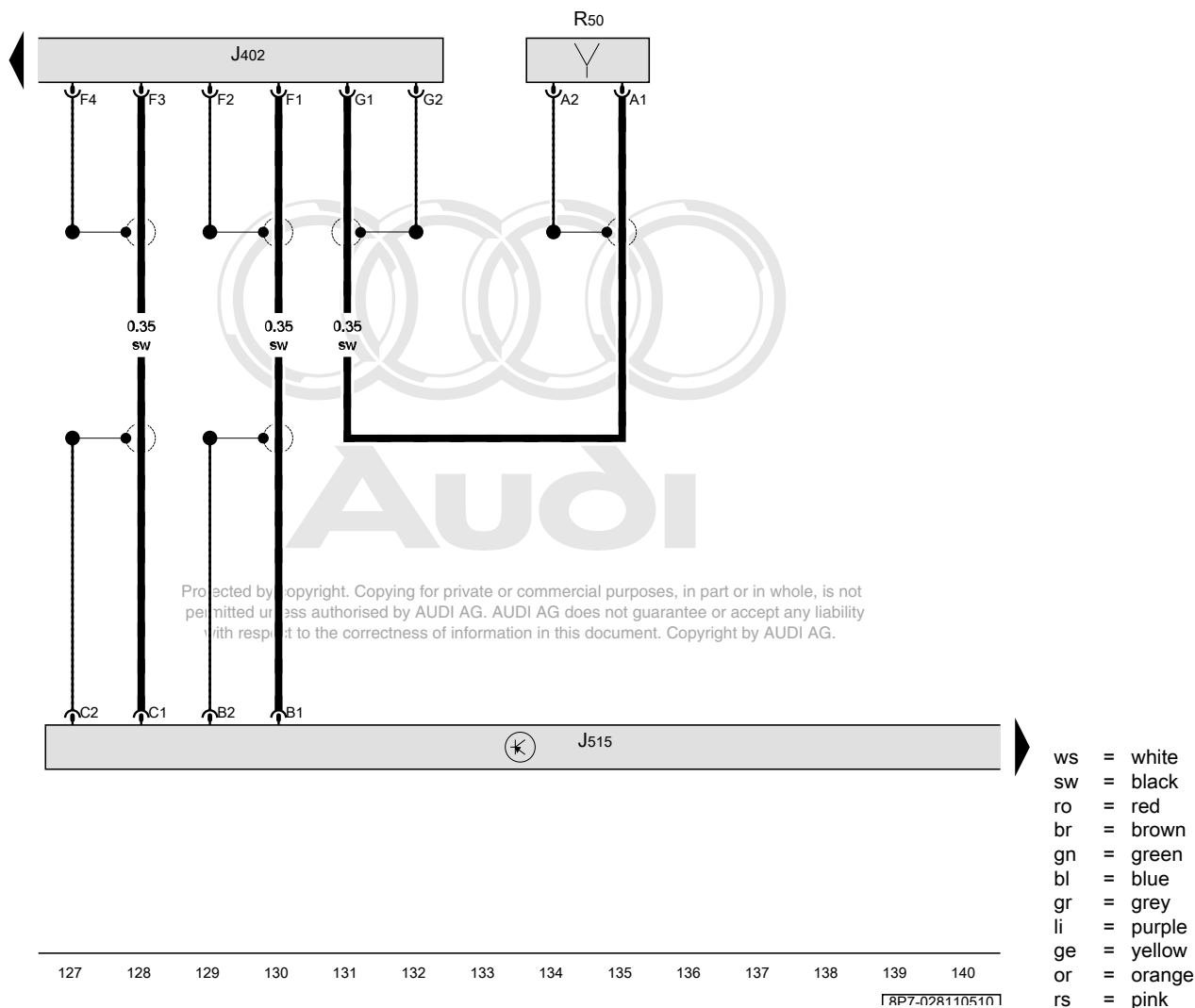
V14 Connection (screening), in CD changer wiring harness

* Only models with CD changer
 *2 Only models with iPod holder
 *3 If fitted



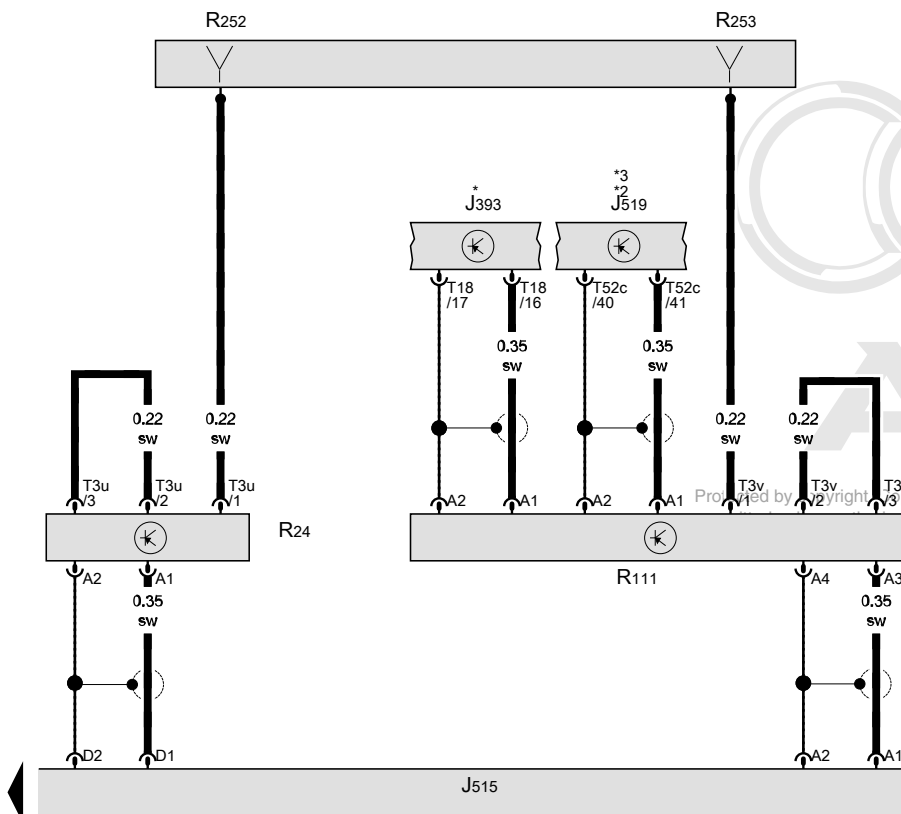
Navigation operating electronics control unit, GPS aerial

J402 Navigation operating electronics control unit
J515 Aerial selection control unit
R50 GPS aerial



Convenience system central control unit, Onboard supply control unit, Aerial amplifier, Aerial amplifier 2

- J393 Convenience system central control unit
- J515 Aerial selection control unit
- J519 Onboard supply control unit
- R24 Aerial amplifier
- R111 Aerial amplifier 2
- R252 Left windscreen aerial
- R253 Right windscreen aerial
- T3u 3-pin connector
- T3v 3-pin connector
- T18 18-pin connector
- T52c 52-pin connector
- * Up to April 2009
- *2 From May 2009
- *3 Gradually discontinued



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141 142 143 144 145 146 147 148 149 150 151 152 153 154

18P7-02R1205101

Headlight for gaseous discharge light (Xenon plus) and automatic headlight range control

from March 2008

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

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M/30

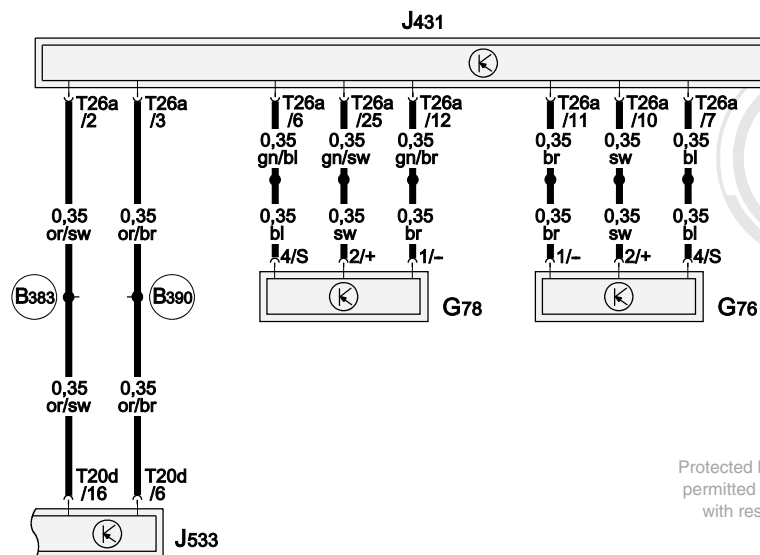
M/30

Vehicle inclination sender, data bus diagnostic interface

- G76 Rear left vehicle level sender
- G78 Front left vehicle level sender
- J431 Headlight range control, control unit
- J533 Data bus diagnostic interface
- T20d 20-pin connector, black (connector A)
- T26a 26-pin connector, black (connector A)

B383 Connection 1 (drive train CAN bus, high), in main wiring harness

B390 Connection 1 (drive train CAN bus, low), in main wiring harness

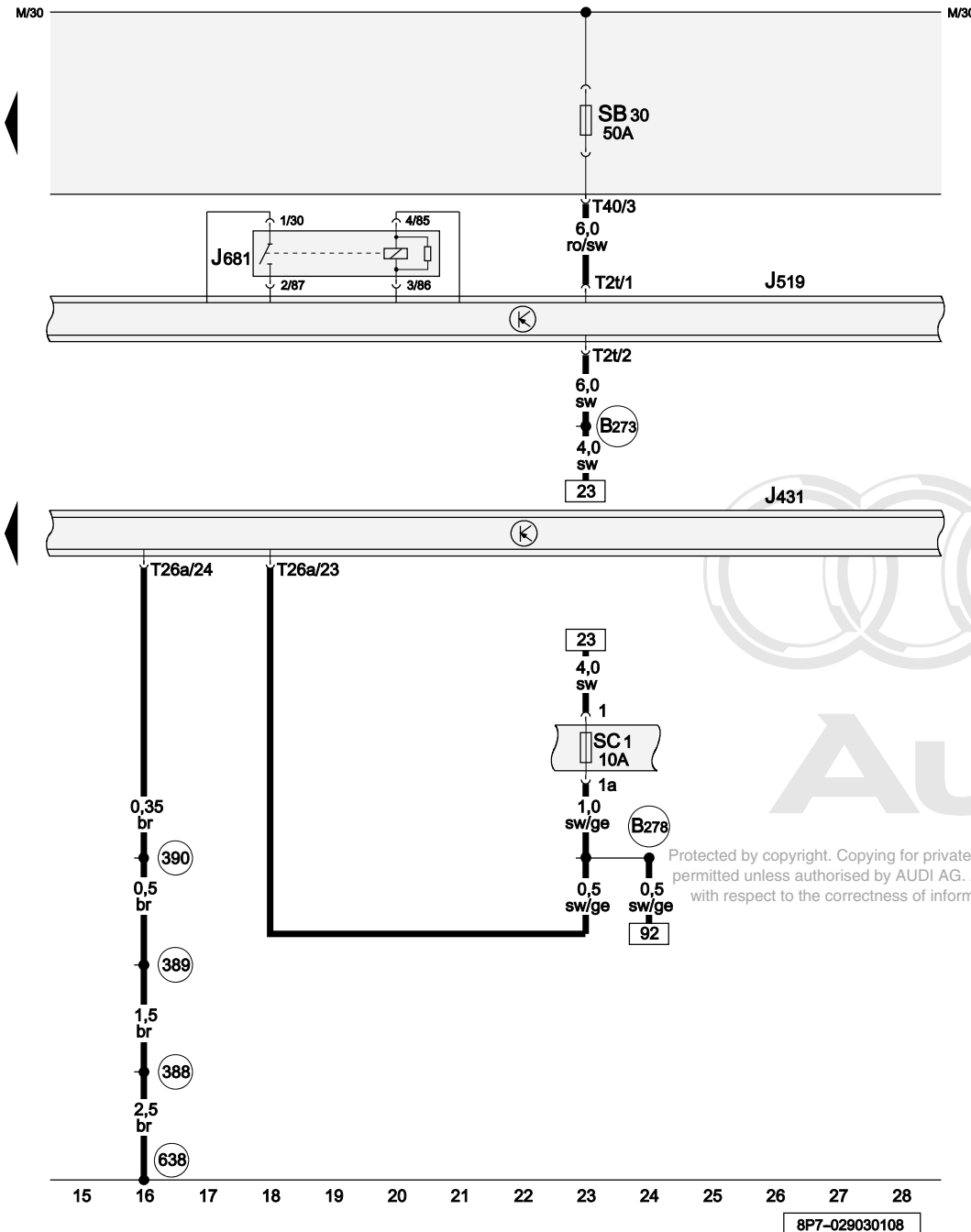


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1 2 3 4 5 6 7 8 9 10 11 12 13 14

8P7-029020108



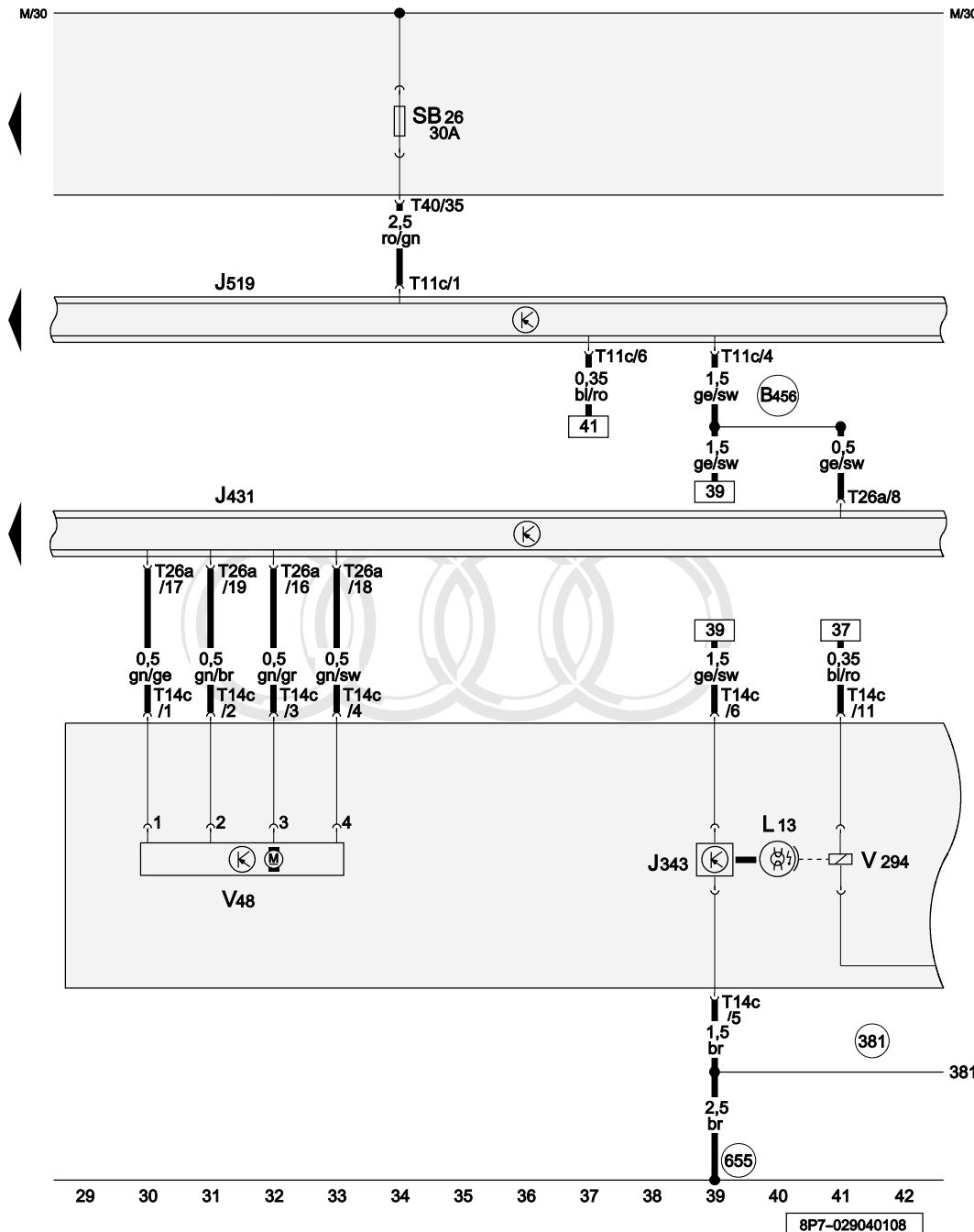
Terminal 15 voltage supply relay 2, fuses on fuse holder

- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T26a 26-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, right A-pillar
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness

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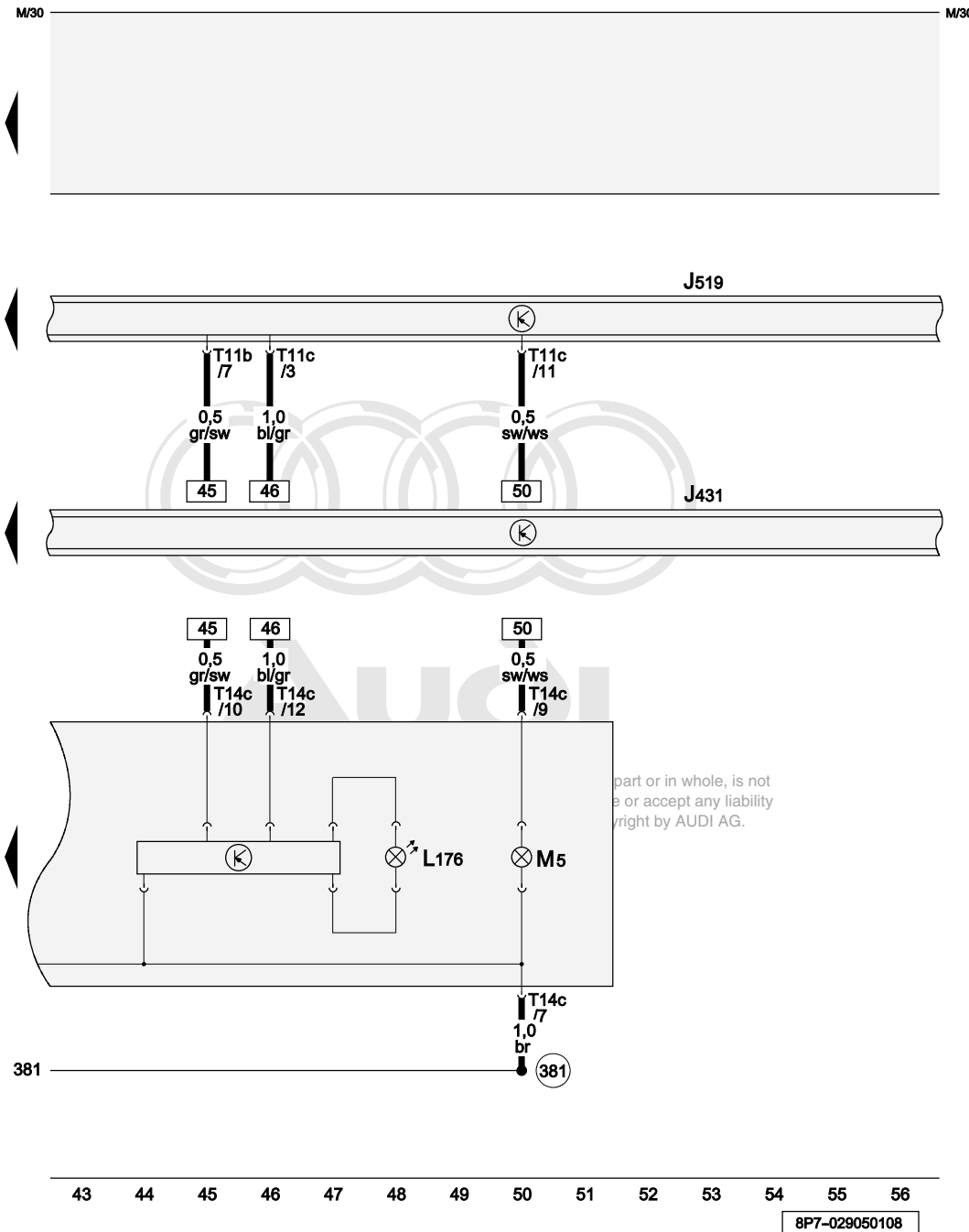
Left gas discharge bulb, left headlight range control motor, left dip beam screen

- J343 Left gas discharge light control unit
- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- L13 Left gas discharge (xenon) bulb
- SB26 Fuse 26 on fuse holder B
- T11c 11-pin connector, brown (connector D)
- T14c 14-pin connector
- T26a 26-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V48 Left headlight range control motor
- V294 Left dip beam screen motor

381 Earth connection 16, in main wiring harness

655 Earth point, on left headlight

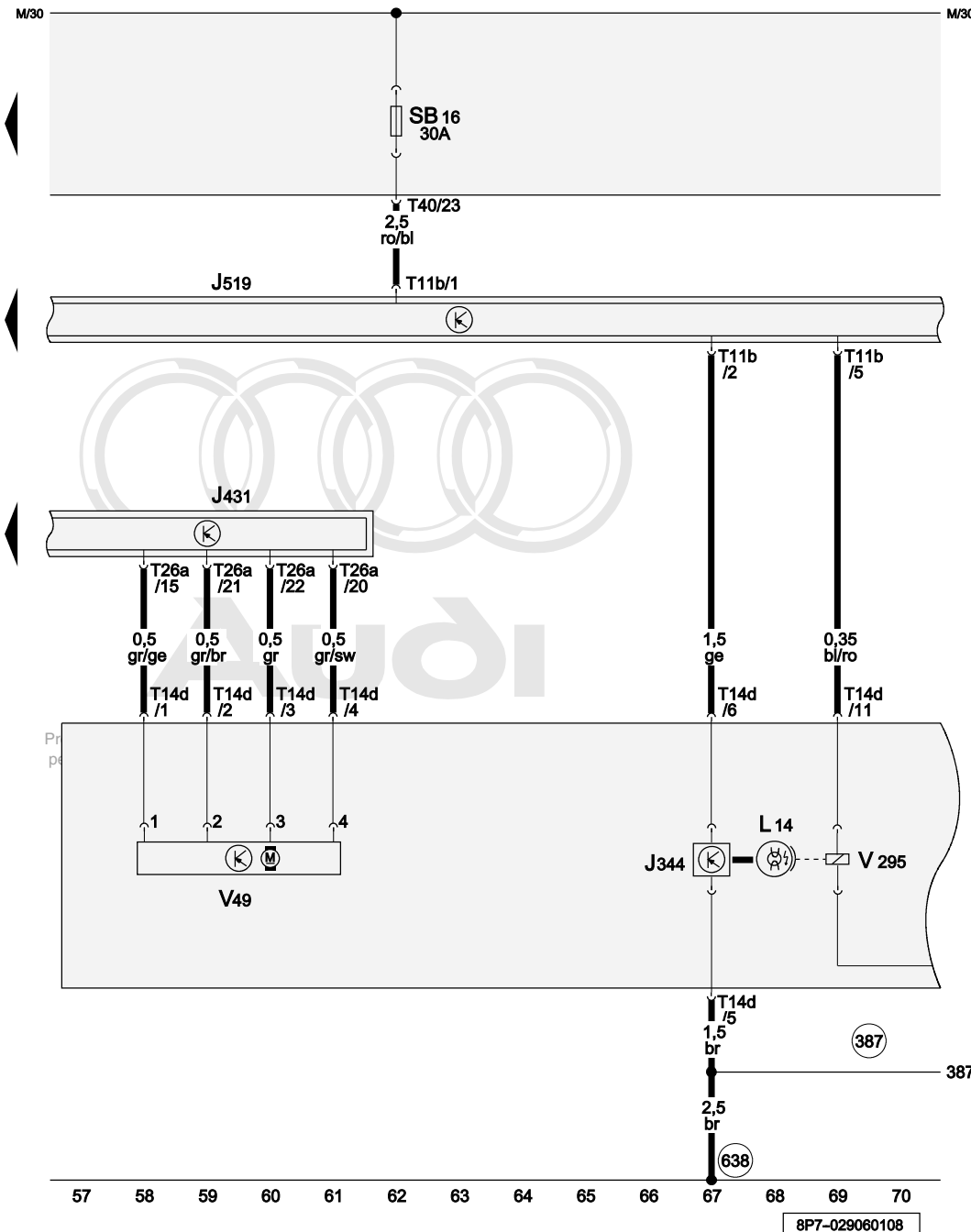
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Left LED module for daytime running light and side light, front left turn signal

- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- L176 Left LED module for daytime running light and side light
- M5 Front left turn signal bulb
- T11b 11-pin connector, black (connector A)
- T11c 11-pin connector, brown (connector D)
- T14c 14-pin connector

381 Earth connection 16, in main wiring harness

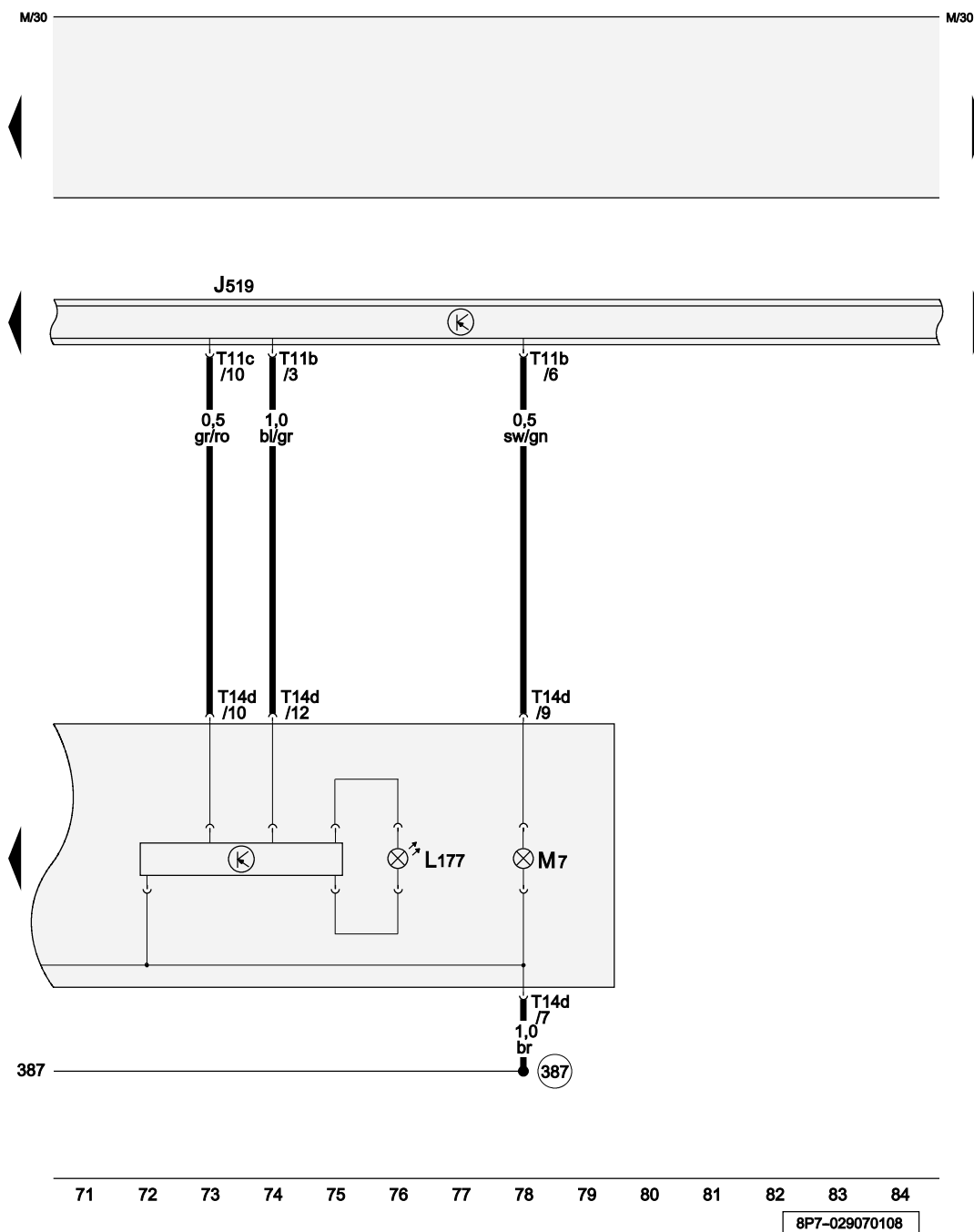


Right gas discharge bulb, right headlight range control motor, right dip beam screen

- J344 Right gas discharge light control unit
- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- L 14 Right gas discharge (xenon) bulb
- SB16 Fuse 16 on fuse holder B
- T11b 11-pin connector, black (connector A)
- T14d 14-pin connector
- T26a 26-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V49 Right headlight range control motor
- V295 Right dip beam screen motor

387 Earth connection 22, in main wiring harness

638 Earth point, right A-pillar



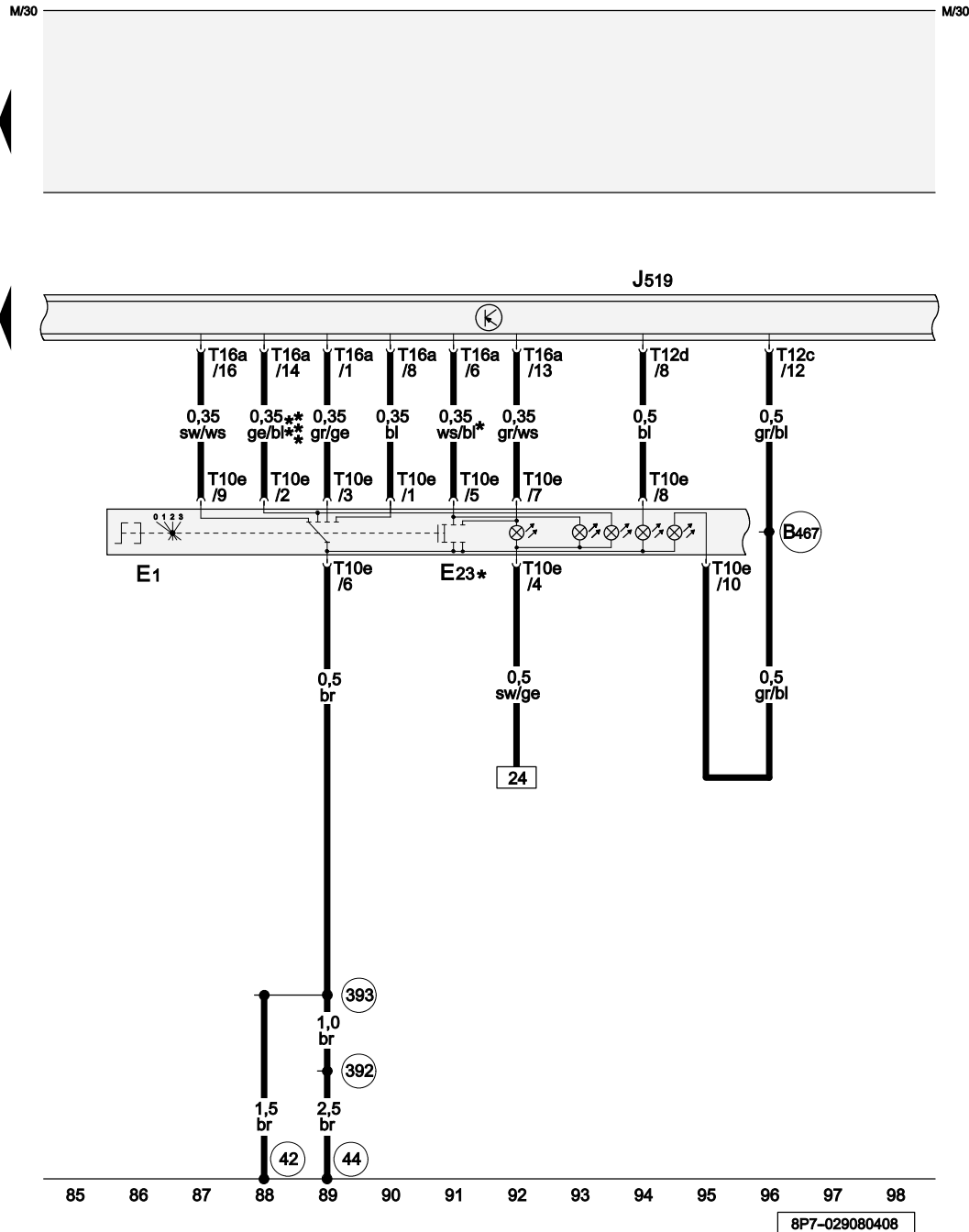
**Right LED module for daytime running light and side light,
front right turn signal**

J519	Onboard supply control unit
L177	Right LED module for daytime running light and side light
M7	Front right turn signal bulb
T11b	11-pin connector, black (connector A)
T11c	11-pin connector, brown (connector D)
T14d	14-pin connector

(387) Earth connection 22, in main wiring harness

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Light switch

- E1 Light switch
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- T10e 10-pin connector, black (connector A)
- T12c 12-pin connector, black (connector B)
- T12d 12-pin connector, brown (connector C)
- T16a 16-pin connector, black (connector E)
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B467 Connection 3 in main wiring harness

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* for models with front fog light only
 ** for models with automatic headlight switching only
 *** for models with day driving light only

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 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink



Headlight with Coming-Home

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

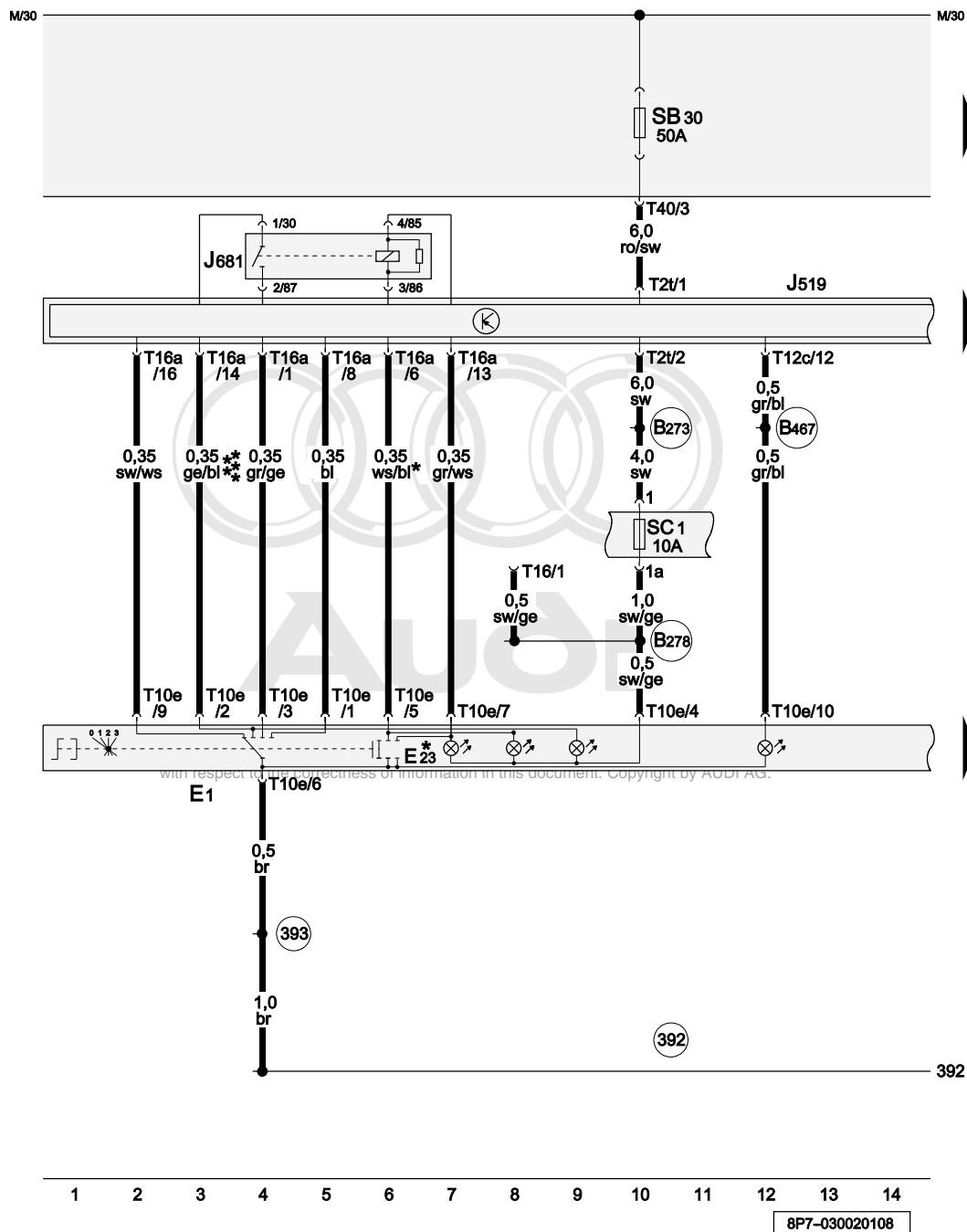
⇒ List of Fitting Locations!

For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding

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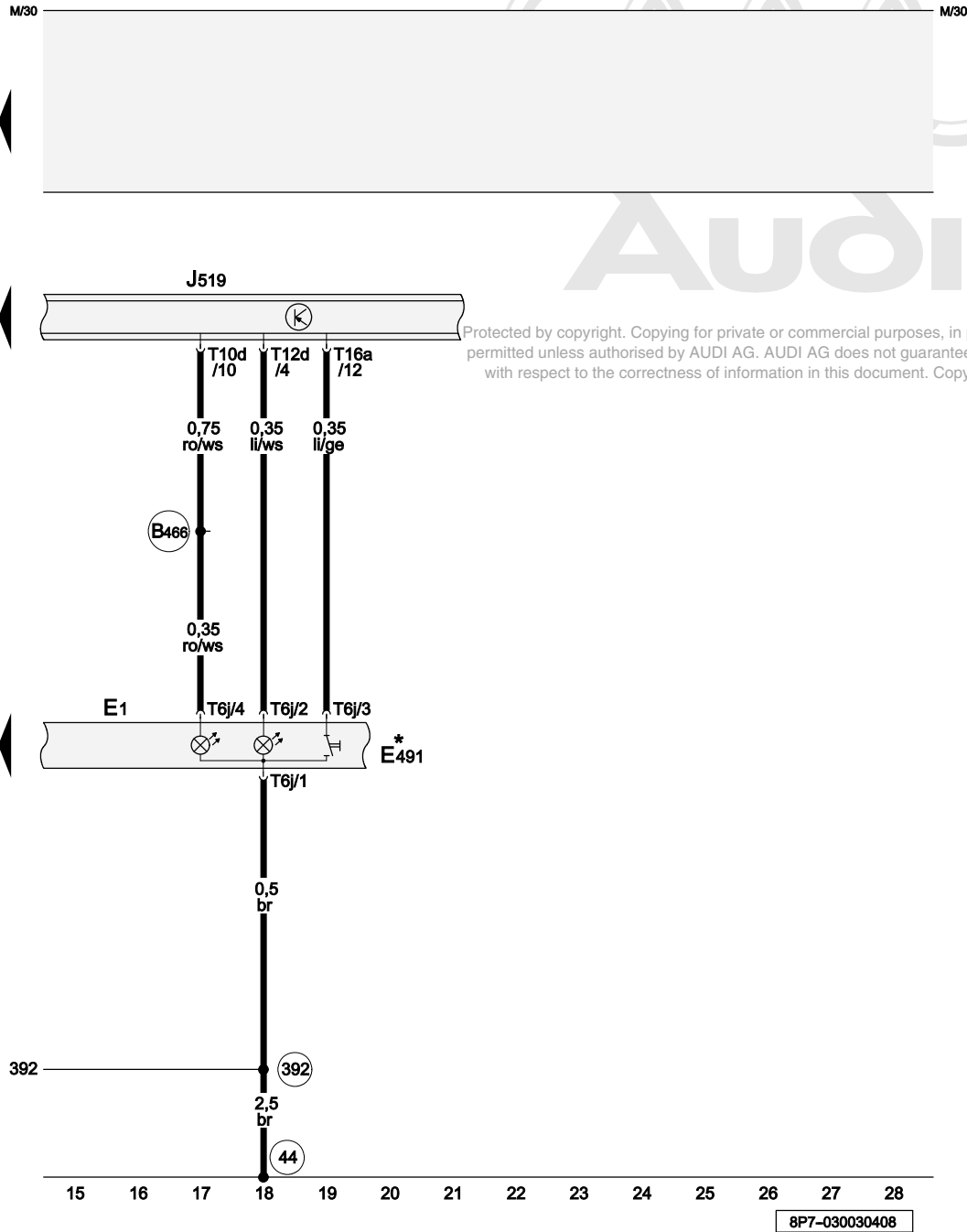
Light switch, fuses on fuse holder

- E1 Light switch
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T10e 10-pin connector, black (connector A)
- T12c 12-pin connector, black (connector B)
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B467 Connection 3 in main wiring harness

- * for models with front fog light only
- ** for models with automatic headlight switching only
- *** for models with day driving light only

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rs = pink



Light switch

- E1 Light switch
- E491 Deactivation switch for surround lighting
- J519 Onboard supply control unit
- T6j 6-pin connector, black (connector C)
- T10d 10-pin connector, black (connector K)
- T12d 12-pin connector, brown (connector C)
- T16a 16-pin connector, black (connector E)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B466 Connection 2 in main wiring harness
- * Coming-Home-switch

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gn = green
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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

8P7-030030408



Preparation for radio trade product

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

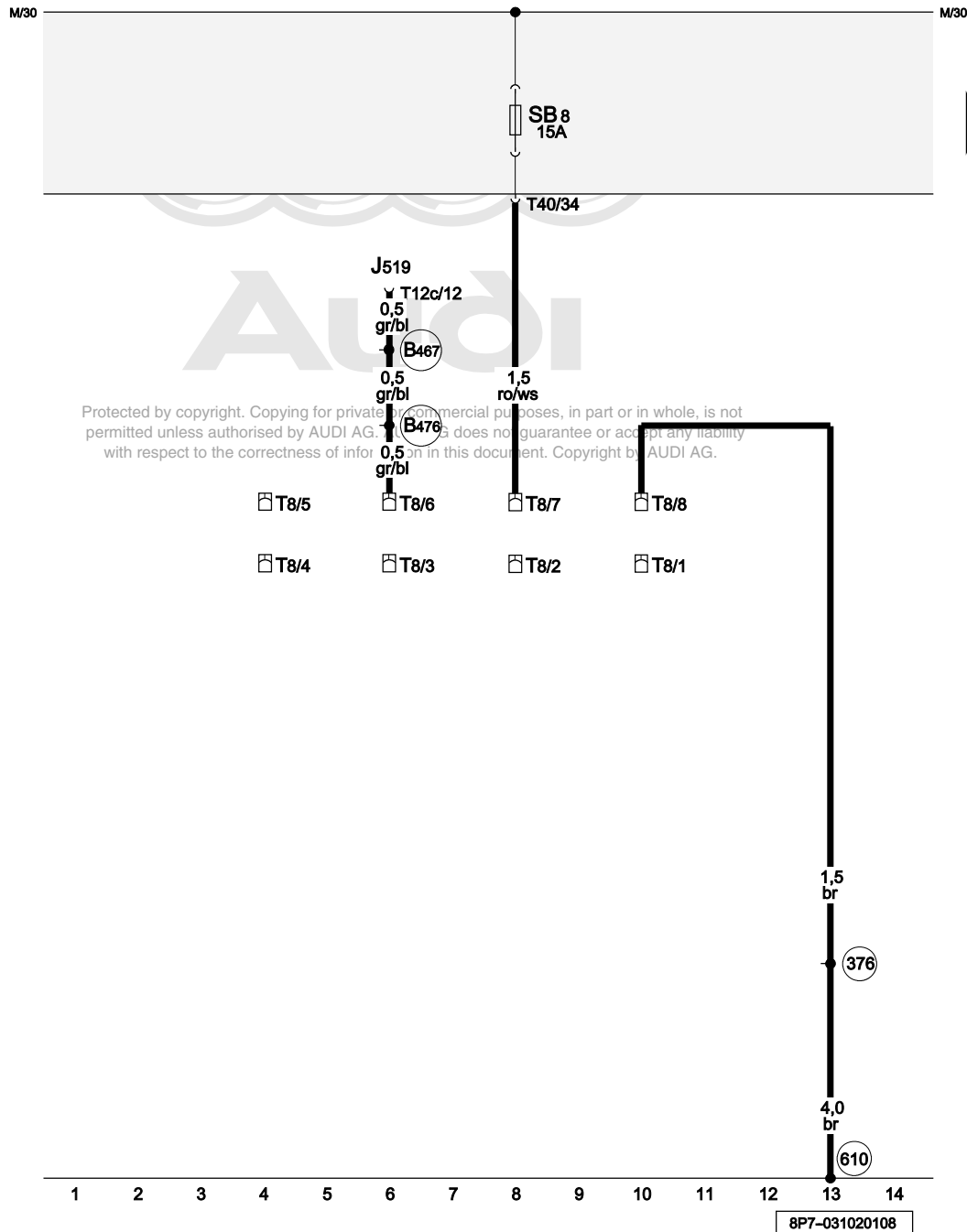
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Voltage supply

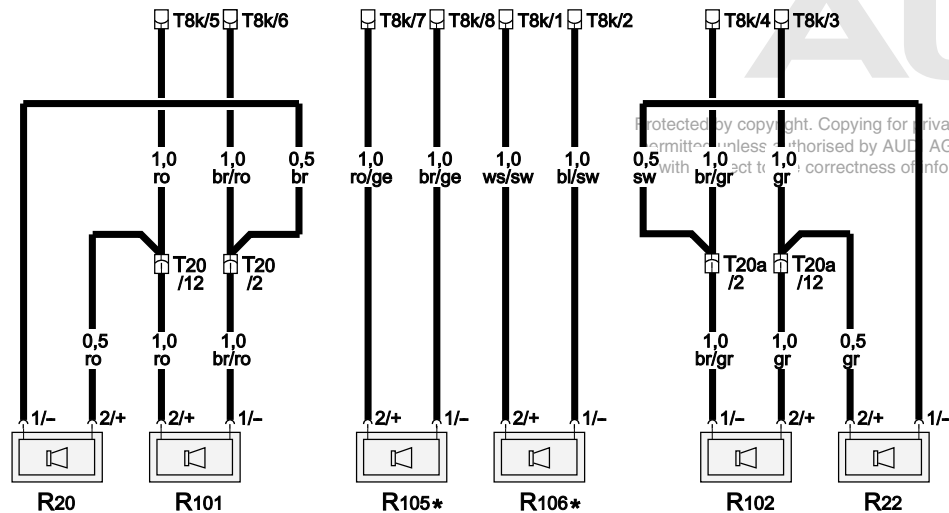
- J519 Onboard supply control unit
- SB8 Fuse 8 on fuse holder B
- T8 8-pin connector, black (connector A)
- T12c 12-pin connector, black (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), under centre console, front
- B467 Connection 3 in main wiring harness
- B476 Connection 12 in main wiring harness



Front and rear loudspeaker

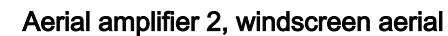
- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R105 Rear left mid-range loudspeaker
- R106 Rear right mid-range loudspeaker
- T8k 8-pin connector, brown (connector B)
- T20 20-pin connector, black, door A-pillar left
- T20a 20-pin connector, black, door A-pillar right for models with rear loudspeaker only



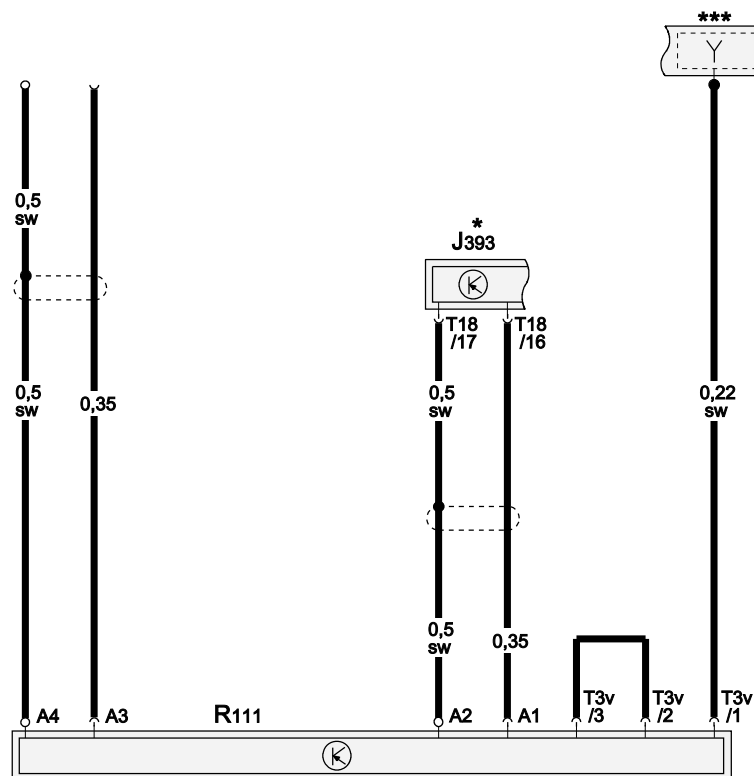
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- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-031030108



- | | |
|------|---|
| J393 | Convenience system central control unit |
| R111 | Aerial amplifier 2 |
| T3v | 3-pin connector |
| T18 | 18-pin connector, brown (connector A) |
| * | for models with central locking or anti-theft alarm system only |
| *** | windscreen aerial right |



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

ro = red
br = brown
gr = green



Lumbar support adjustment, with manual seat adjustment

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

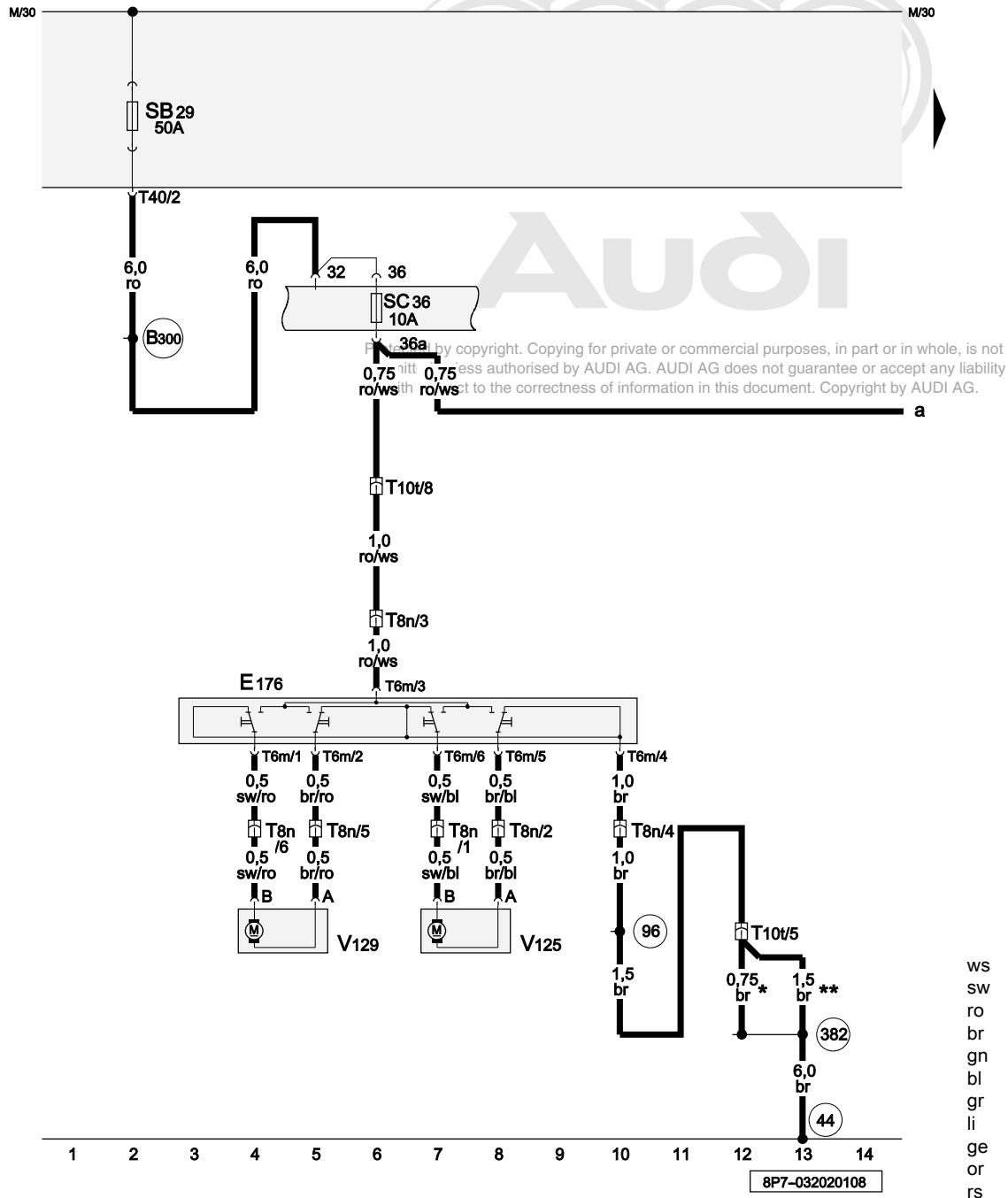
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



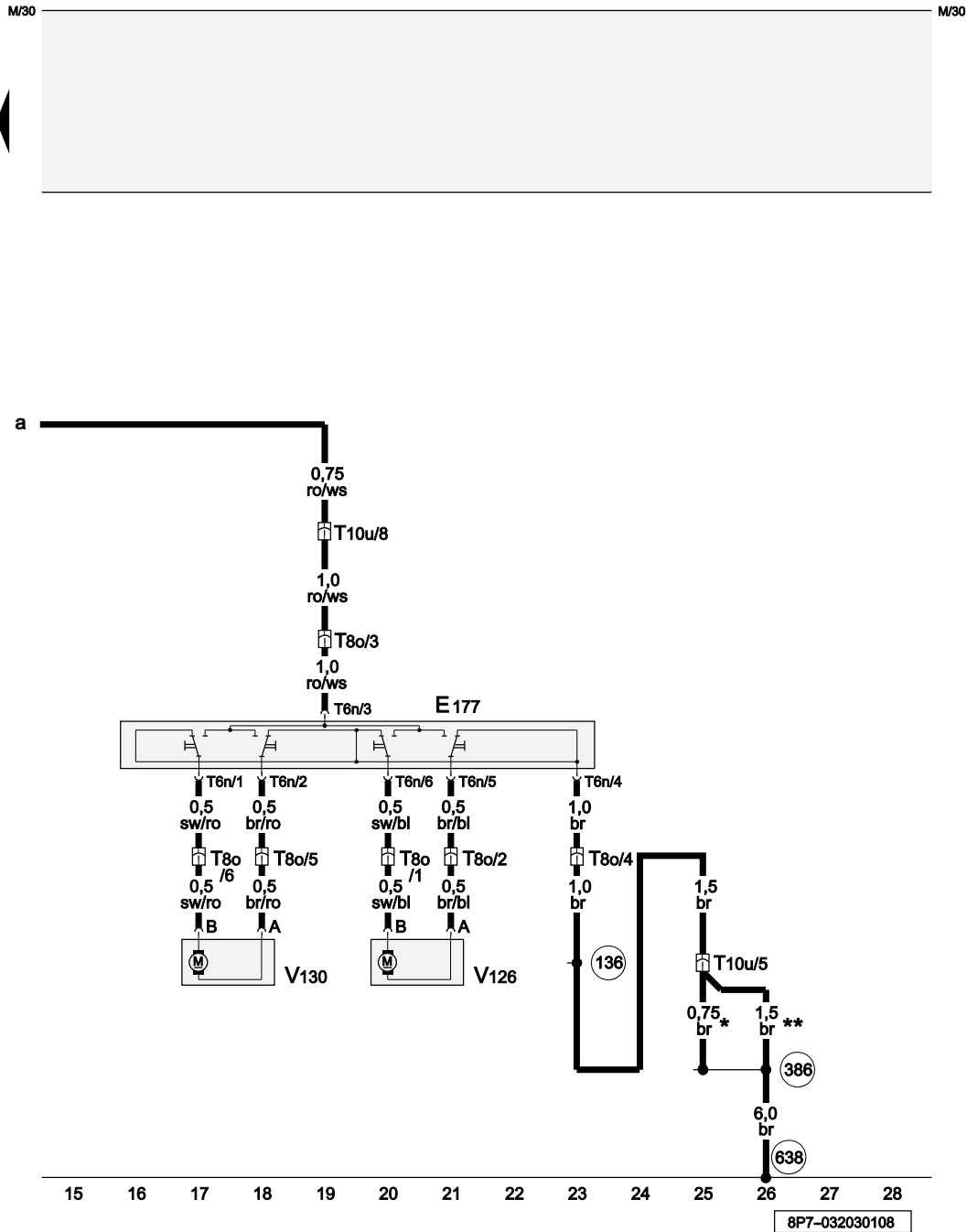
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Driver seat lumbar support adjustment

- E176 Driver seat lumbar support adjustment switch
- SB29 Fuse 29 on fuse holder B
- SC36 Fuse 36 on fuse holder C
- T6m 6-pin connector, black, on lumbar support adjustment switch, driver seat
- T8n 8-pin connector, black, under driver seat
- T10t 10-pin connector, black, under driver seat
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V125 Driver seat lumbar support longitudinal adjustment motor
- V129 Driver seat lumbar support height adjustment motor
- 44 Earth point, lower part of left A-pillar
- 96 Earth connection 1, in seat heating wiring harness
- 382 Earth connection 17, in main wiring harness
- B300 Positive connection 4 (30), in main wiring harness
- * for models without seat heating only
- ** for models with seat heating only

ws = white
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 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink



Front passenger seat lumbar support adjustment

- E177 Front passenger seat lumbar support adjustment switch
- T6n 6-pin connector, black, lumbar support adjustment switch, front passenger seat
- T8o 8-pin connector, black, under front passenger seat
- T10u 10-pin connector, black, under front passenger seat
- V126 Front passenger seat lumbar support longitudinal adjustment motor
- V130 Front passenger seat lumbar support height adjustment motor

136 Earth connection 2, in seat heating wiring harness

386 Earth connection 21, in main wiring harness

638 Earth point, right A-pillar

* for models without seat heating only

** for models with seat heating only

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Front seat heating with manual seat adjustment

⇒ only air conditioner with automatic regulation

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

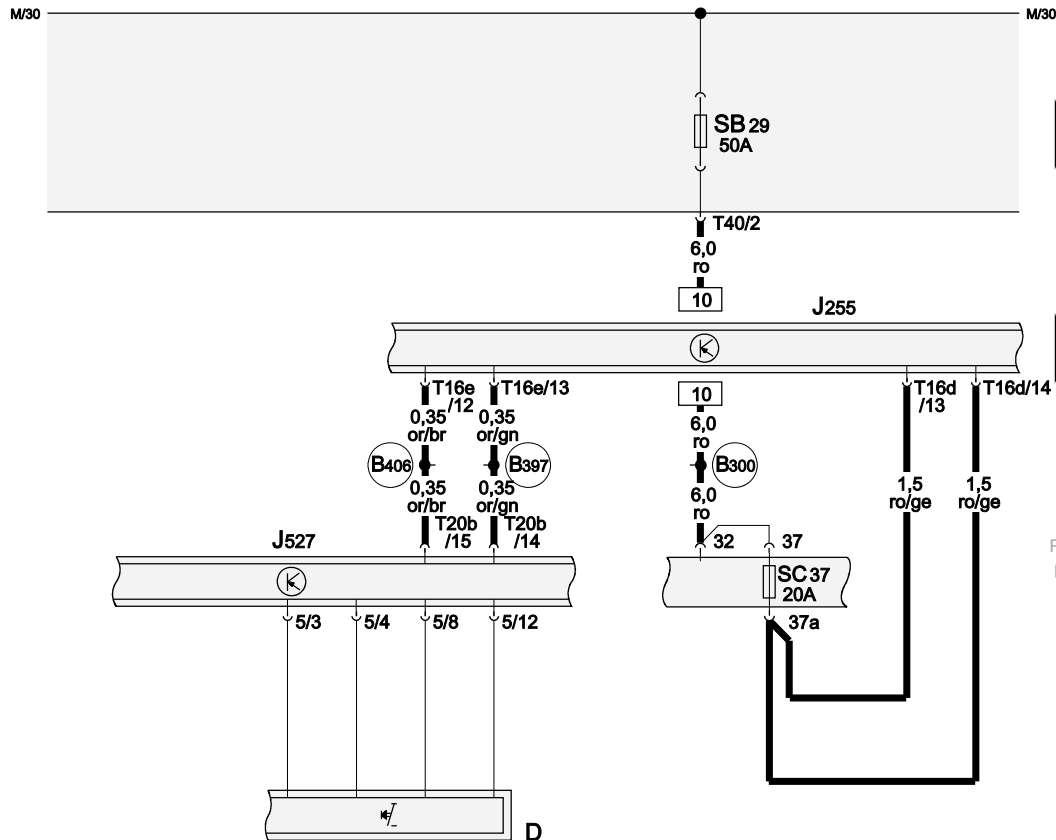
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder

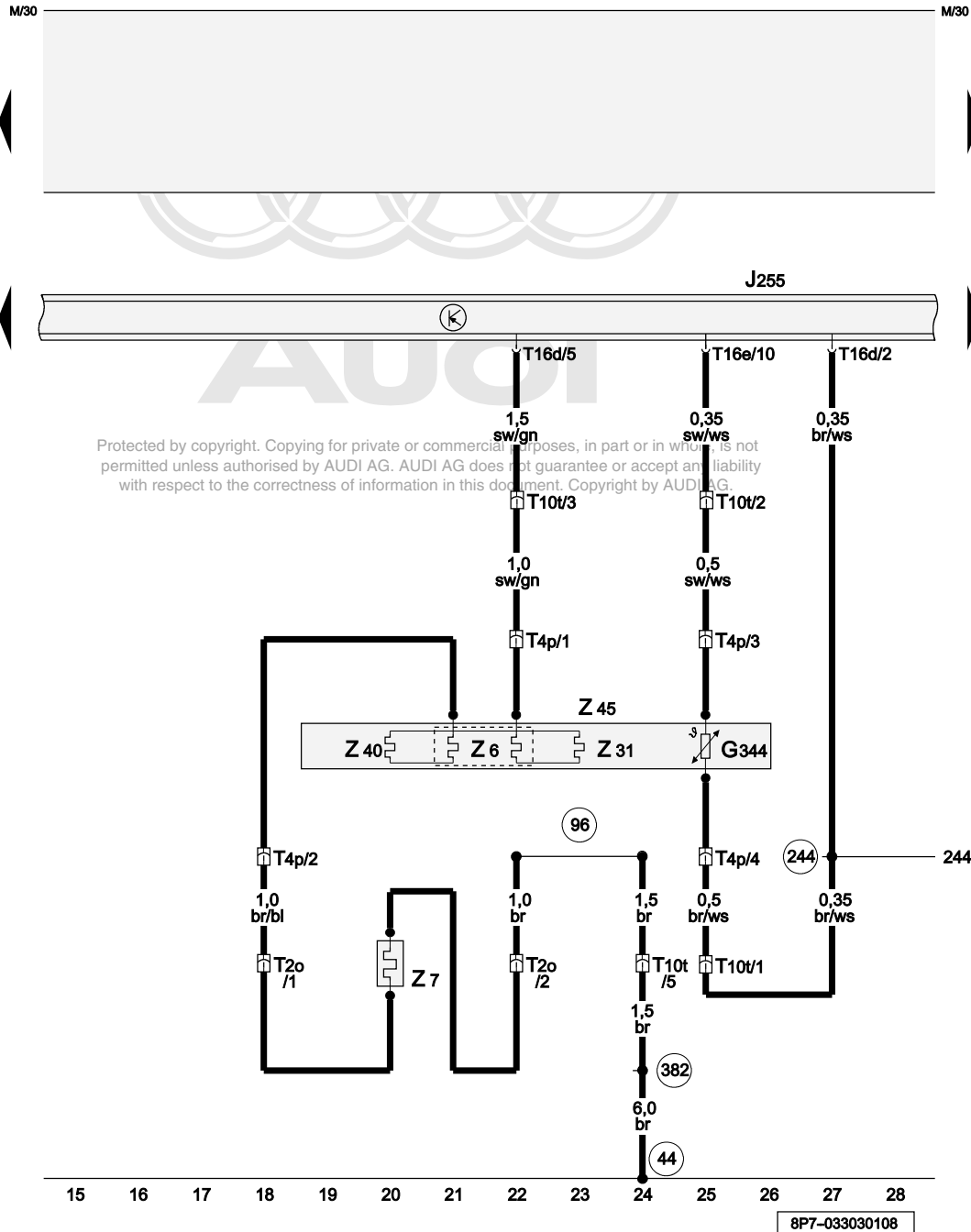
- D Ignition/starter switch
- J255 Climatronic control unit
- J527 Steering column electronics control unit
- SB29 Fuse 29 on fuse holder B
- SC37 Fuse 37 on fuse holder C
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)
- T20b 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- B300 Positive connection 4 (30), in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

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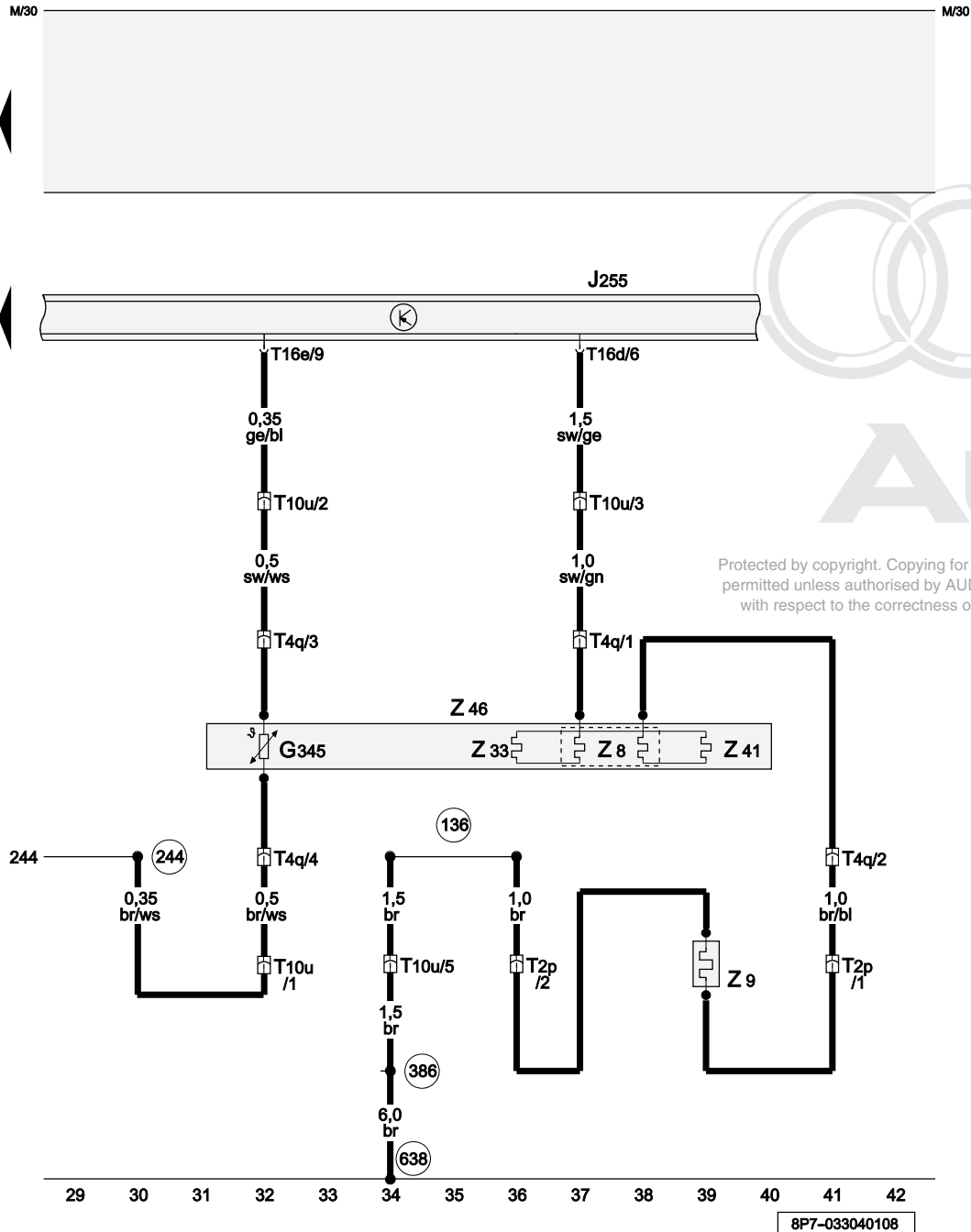


Heated driver seat cushion

- G344 Front left seat temperature sender
- J255 Climatronic control unit
- T2o 2-pin connector, black, on driver seat for heated driver seat backrest
- T4p 4-pin connector, black, on heated driver seat
- T10t 10-pin connector, black, under driver seat
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)
- Z6 Heated driver seat cushion
- Z7 Heated driver seat backrest
- Z31 Driver seat cushion lateral support heater
- Z40 Driver seat lateral support heater 2
- Z45 Front left seat heating

- 44 Earth point, lower part of left A-pillar
- 96 Earth connection 1, in seat heating wiring harness
- 244 Earth connection (sender earth), in Climatronic wiring harness
- 382 Earth connection 17, in main wiring harness

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 gn = green
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 li = purple
 ge = yellow
 or = orange
 rs = pink



Heated front passenger seat cushion

- G345 Front right seat temperature sender
- J255 Climatronic control unit
- T2p 2-pin connector, black, on front passenger seat for heated front passenger seat backrest
- T4q 4-pin connector, black, on heated front passenger seat
- T10u 10-pin connector, black, under front passenger seat
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)
- Z8 Heated front passenger seat cushion
- Z9 Heated front passenger seat backrest
- Z33 Front passenger seat lateral support heater
- Z41 Front passenger seat lateral support heater 2
- Z46 Front right seat heating

- 136 Earth connection 2, in seat heating wiring harness
- 244 Earth connection (sender earth), in Climatronic wiring harness
- 386 Earth connection 21, in main wiring harness
- 638 Earth point, right A-pillar

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8P7-033040108



Front seat heating with manual seat adjustment

- ⇒ for manual regulation with heater only
- ⇒ for air conditioner with manual regulation only

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

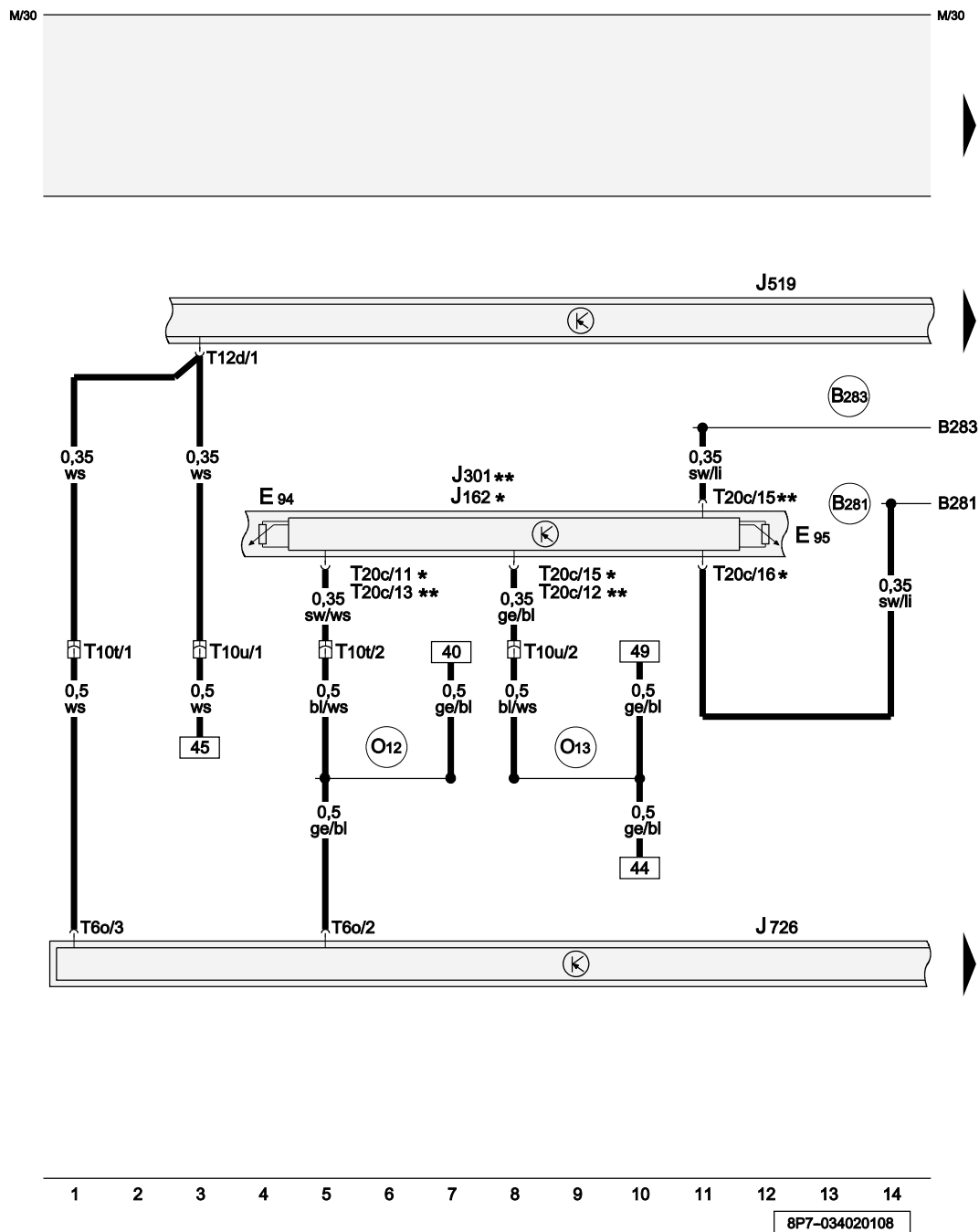
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- ⇒ List of Fitting Locations!

For information concerning

- ◆ Fault Finding Programs

- ⇒ guided fault finding



Heated driver seat regulator, heated front passenger seat regulator

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- J162 Heater control unit
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J726 Driver seat heating control unit
- T6o 6-pin connector, black, on driver seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T12d 12-pin connector, brown (connector C)
- T20c 20-pin connector, black (connector A)

B281 Positive connection 5 (15a), in main wiring harness

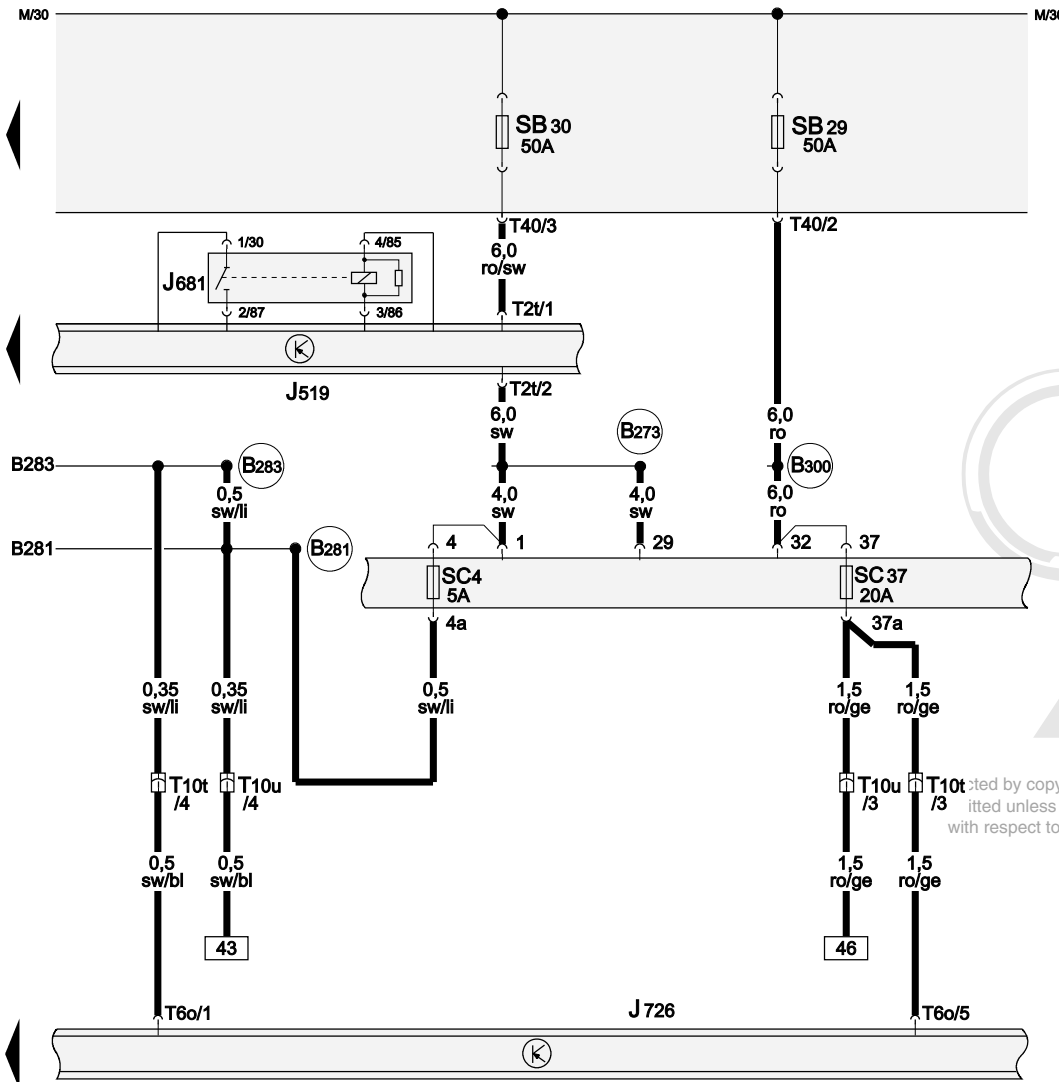
B283 Positive connection 7 (15a), in main wiring harness

O12 Connection 1, in seat heating wiring harness

O13 Connection 2, in seat heating wiring harness

* for manual regulation with heater only
** for air conditioner with manual regulation only

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Driver seat heating control unit, terminal 15 voltage supply relay 2

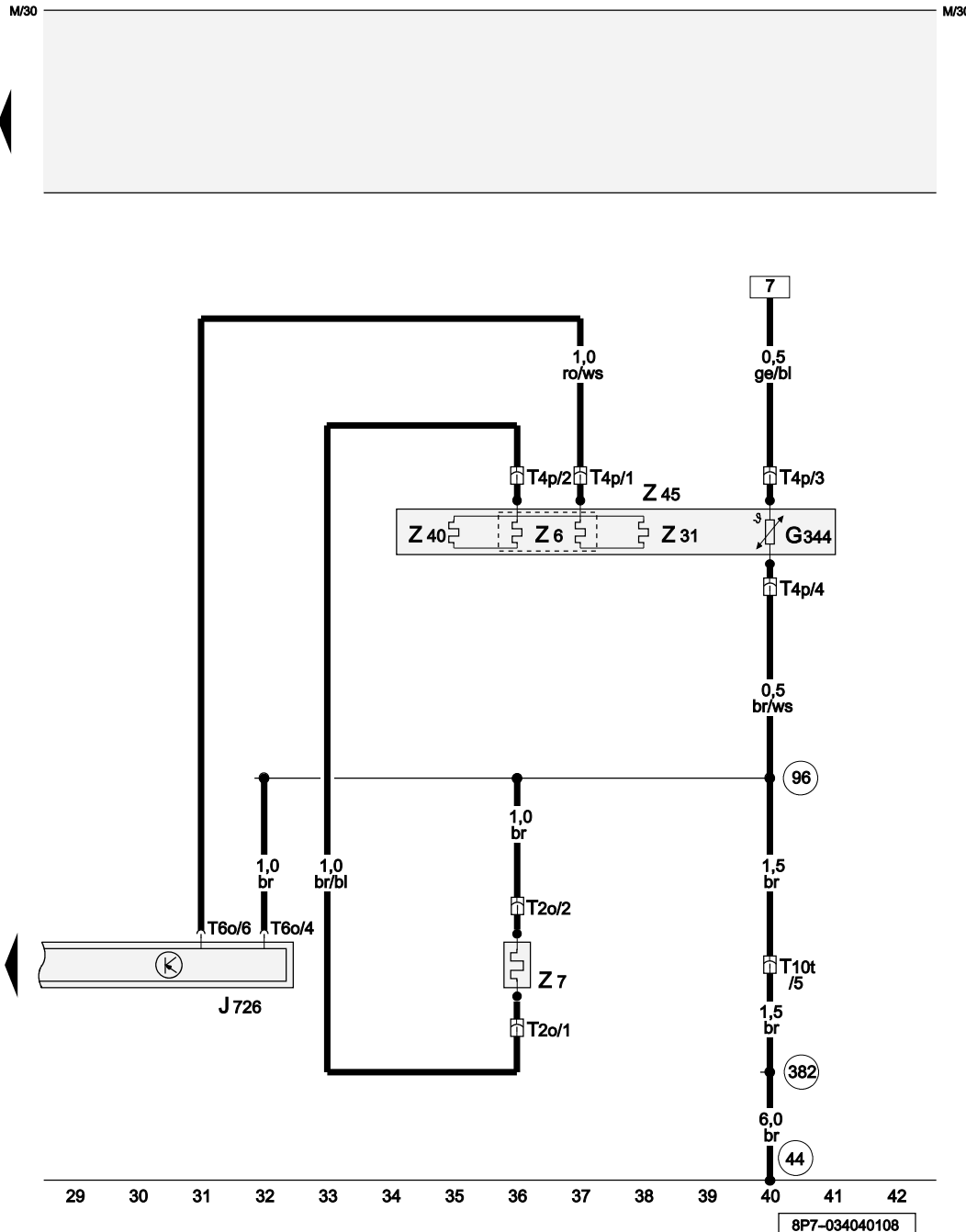
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J726 Driver seat heating control unit
- SB29 Fuse 29 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- SC37 Fuse 37 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T6o 6-pin connector, black, on driver seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- B300 Positive connection 4 (30), in main wiring harness

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

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Driver seat heating control unit, heated seat cushion for front left seat

- G344 Front left seat temperature sender
- J726 Driver seat heating control unit
- T2o 2-pin connector, black, on driver seat for heated driver seat backrest
- T4p 4-pin connector, black, on heated driver seat
- T6o 6-pin connector, black, on driver seat heating control unit
- T10t 10-pin connector, black, under driver seat
- Z6 Heated driver seat cushion
- Z7 Heated driver seat backrest
- Z31 Driver seat cushion lateral support heater
- Z40 Driver seat lateral support heater 2
- Z45 Front left seat heating

- 44 Earth point, lower part of left A-pillar
- 96 Earth connection 1, in seat heating wiring harness
- 382 Earth connection 17, in main wiring harness



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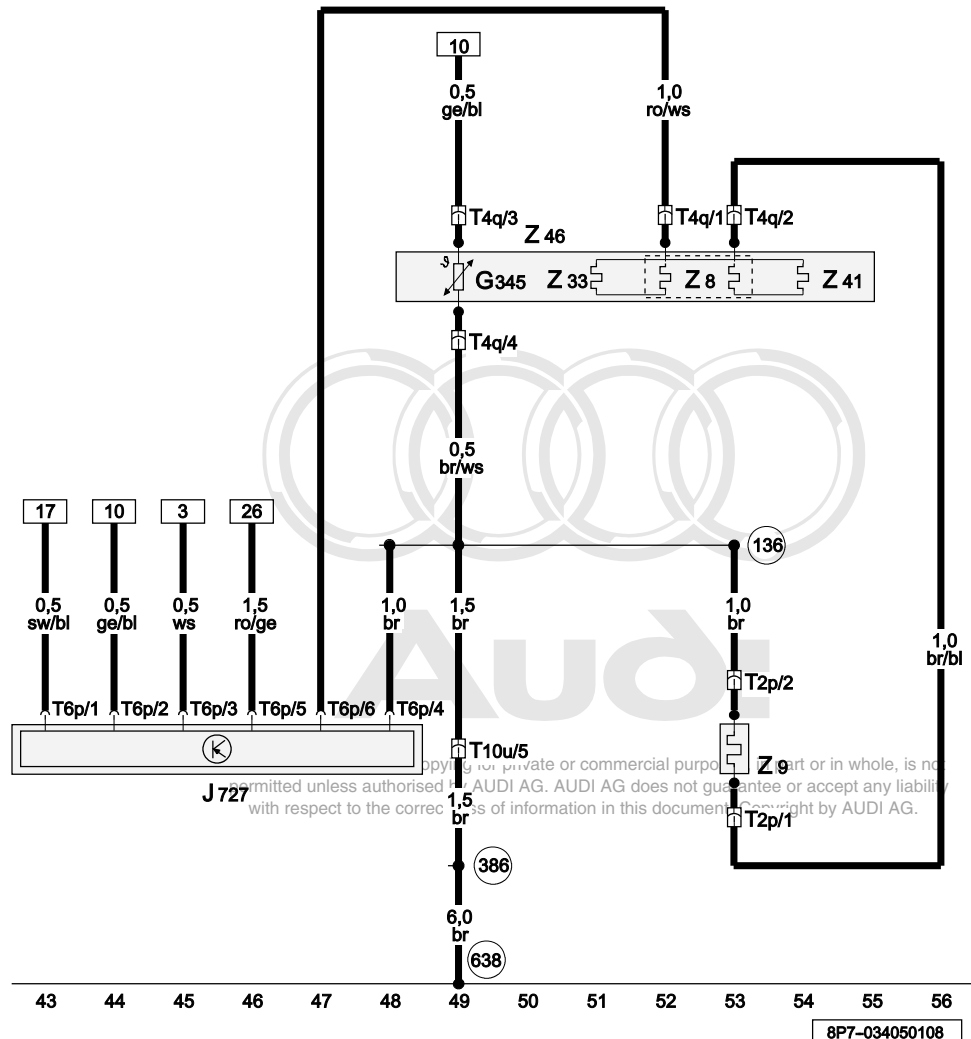
M/30

M/30

Front passenger seat heating control unit, heated seat cushion for front right seat

- G345 Front right seat temperature sender
- J727 Front passenger seat heating control unit
- T2p 2-pin connector, black, on front passenger seat for heated front passenger seat backrest
- T4q 4-pin connector, black, on heated front passenger seat
- T6p 6-pin connector, black, on front passenger seat heating control unit
- T10u 10-pin connector, black, under front passenger seat
- Z8 Heated front passenger seat cushion
- Z9 Heated front passenger seat backrest
- Z33 Front passenger seat lateral support heater
- Z41 Front passenger seat lateral support heater 2
- Z46 Front right seat heating

- 136 Earth connection 2, in seat heating wiring harness
- 386 Earth connection 21, in main wiring harness
- 638 Earth point, right A-pillar



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 rs = pink



1.6 l - Fuel injection engine (75 kW - Simos - 4 cylinder), engine code BSE

from May 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

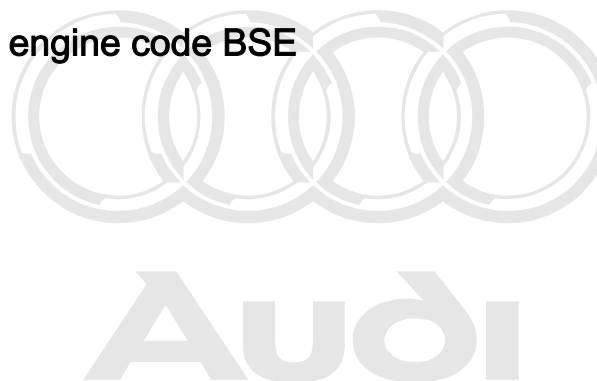
- ◆ Earth connections

⇒ List of Fitting Locations!

For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



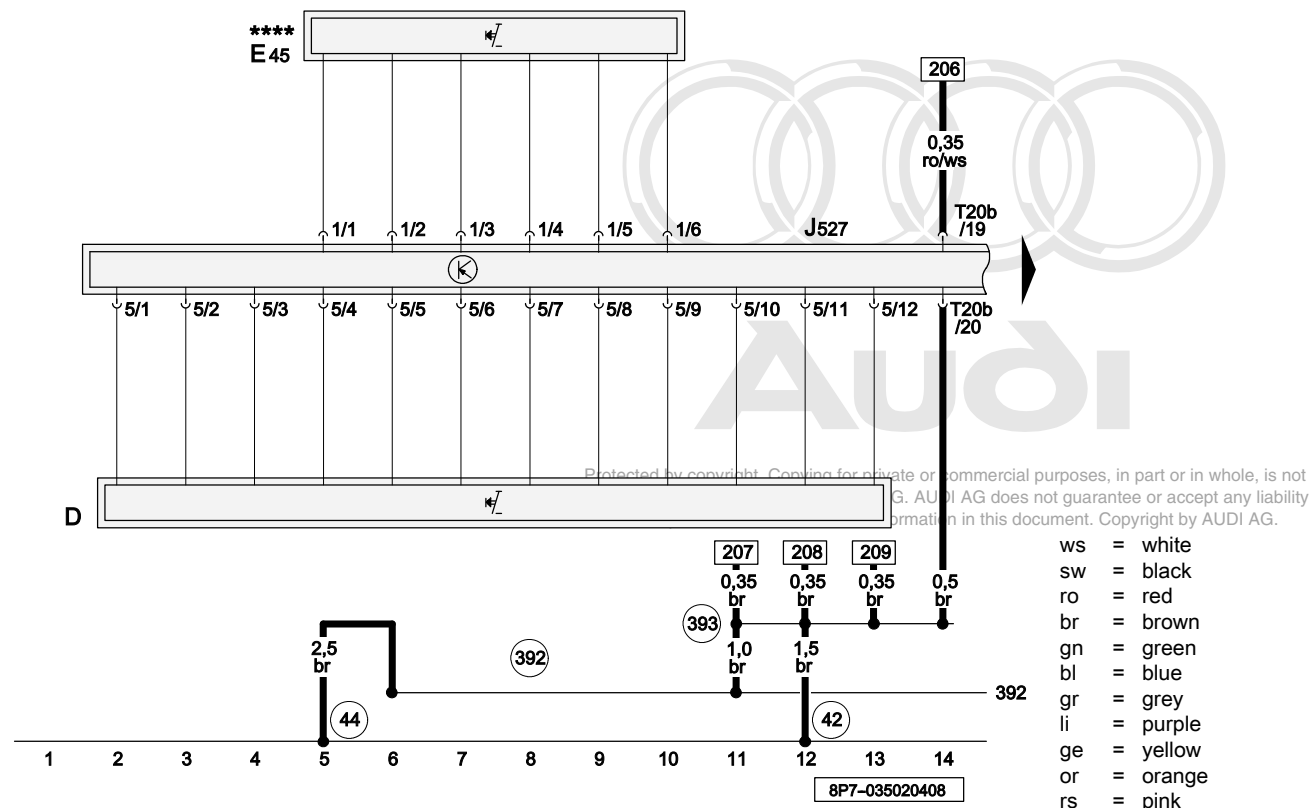
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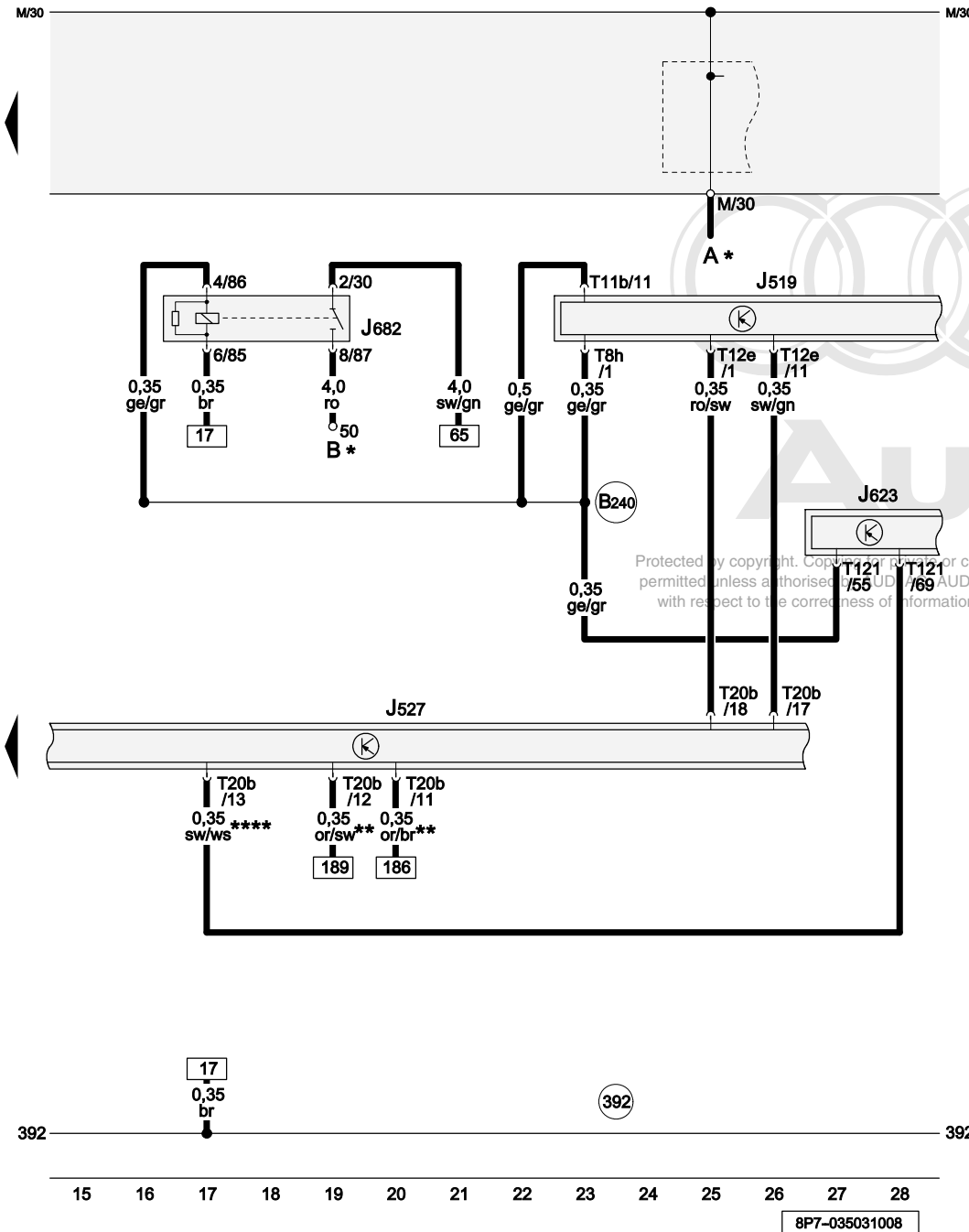
M/30

M/30

Cruise control system switch, ignition/starter switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- T20b 20-pin connector, black (connector A)
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- **** for models with cruise control system only





Electronics box supply, terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T8h 8-pin connector, black (connector F)
- T11b 11-pin connector, black (connector A)
- T12e 12-pin connector, black (connector G)
- T20b 20-pin connector, black (connector A)
- T121 121-pin connector, black, on engine control unit

392 Earth connection 27, in main wiring harness

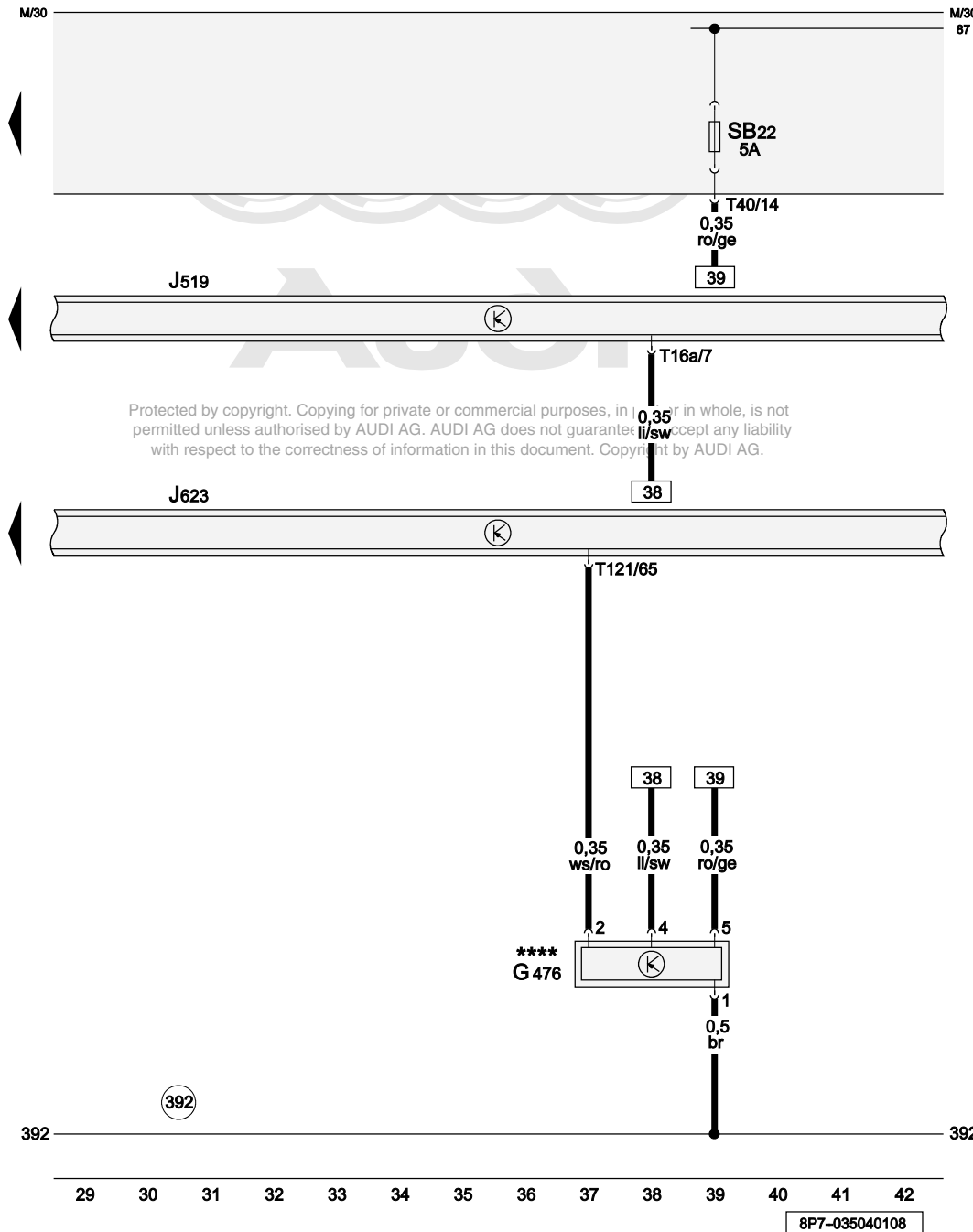
B240 Positive connection 2 (50), in interior wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

** for models with CAN bus drive train only

**** for models with cruise control system only

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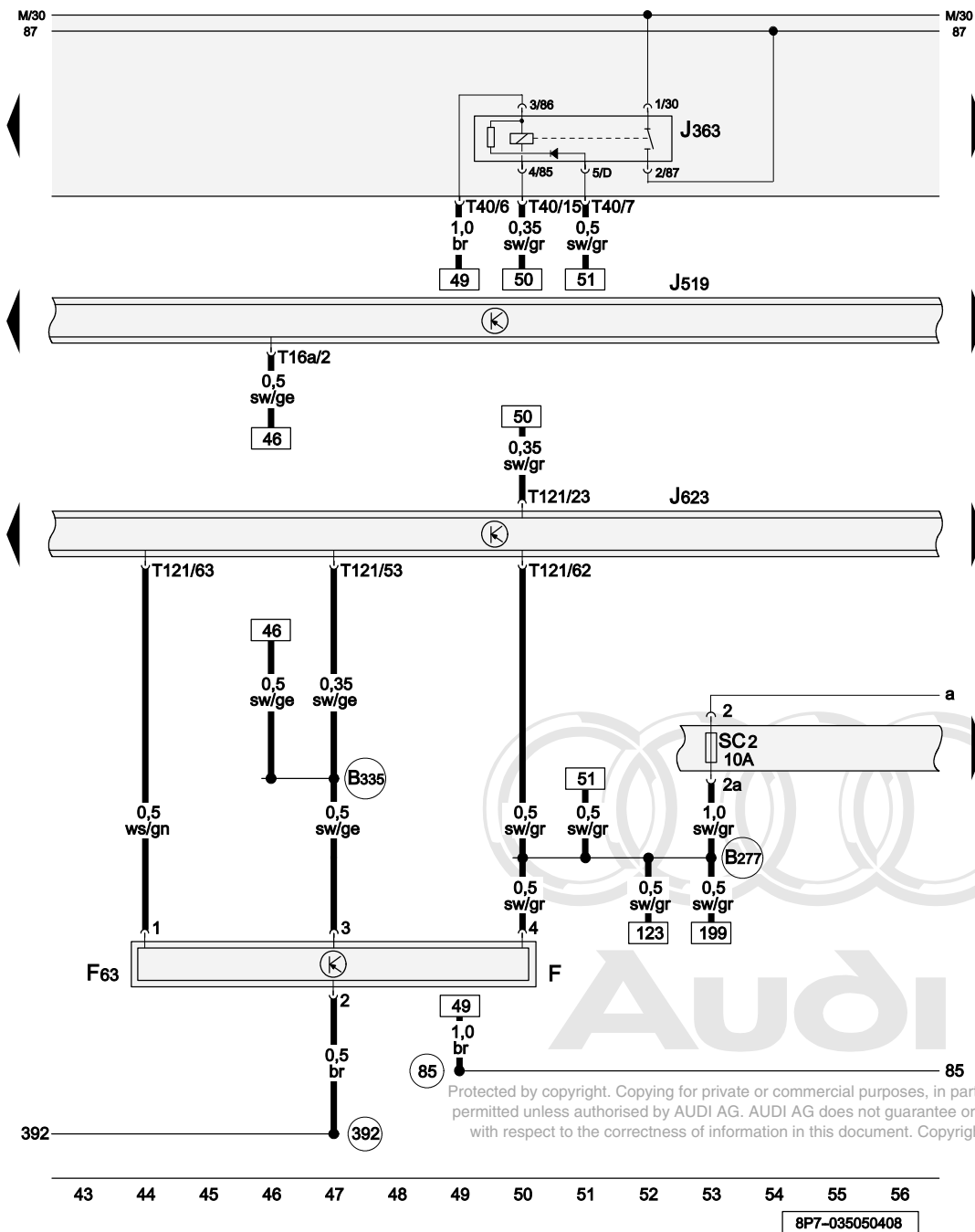
Clutch position sender

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit

392 Earth connection 27, in main wiring harness

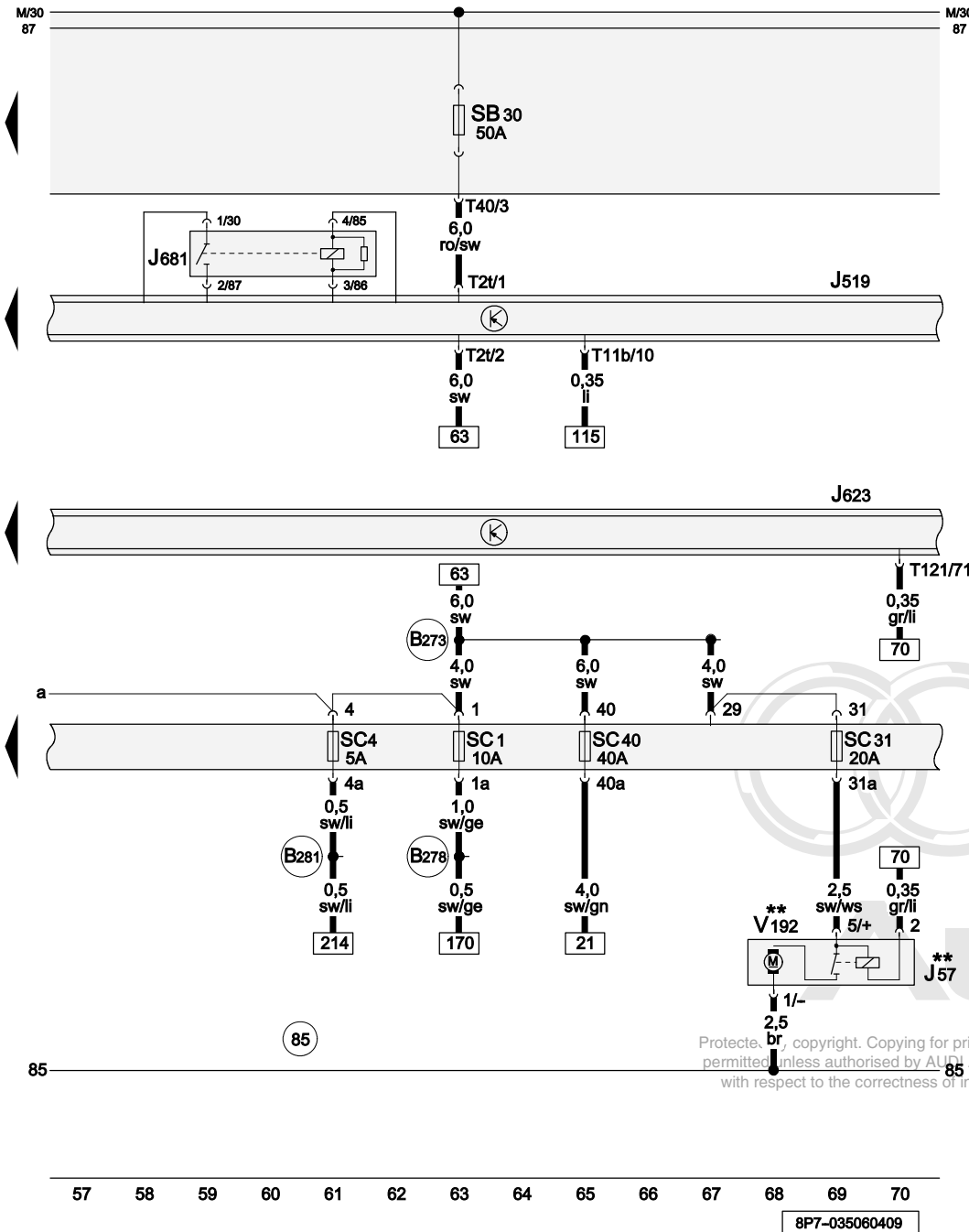
**** for models with manual gearbox only

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Brake light switch, brake pedal switch

- F Brake light switch
- F63 Brake pedal switch
- J363 Current supply relay for Simos control unit
- J519 Onboard supply control unit
- J623 Engine control unit
- SC2 Fuse 2 on fuse holder C
- T16a 16-pin connector, black (connector E)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B335 Connection 1 (54), in main wiring harness



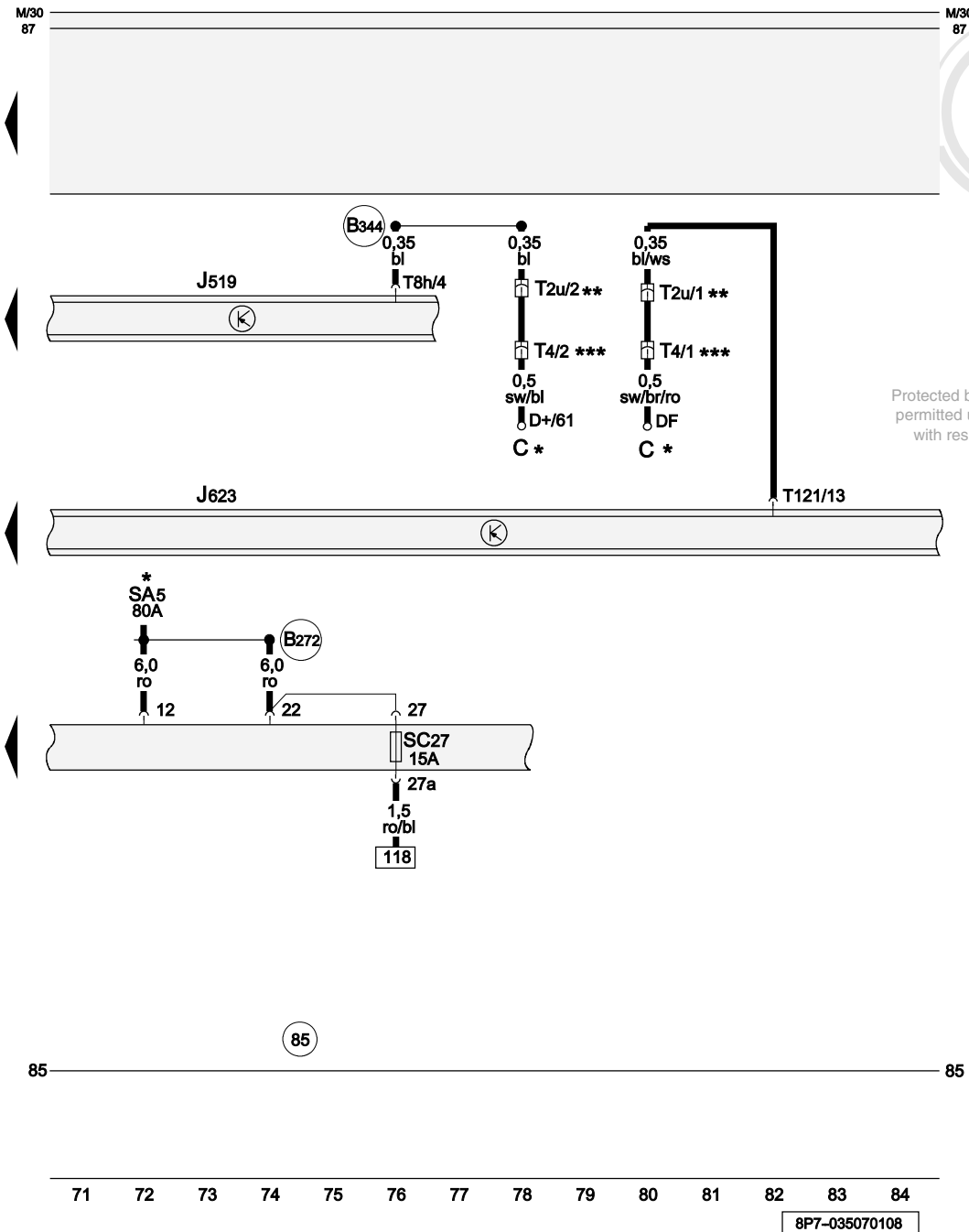
Terminal 15 voltage supply relay 2, vacuum pump relay

- J57 Vacuum pump relay
- J519 Onboard supply control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC40 Fuse 40 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T11b 11-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V192 Vacuum pump for brakes

- 85 Earth connection 1, in engine compartment wiring harness
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- ** only models with anti-lock brake system (ABS)

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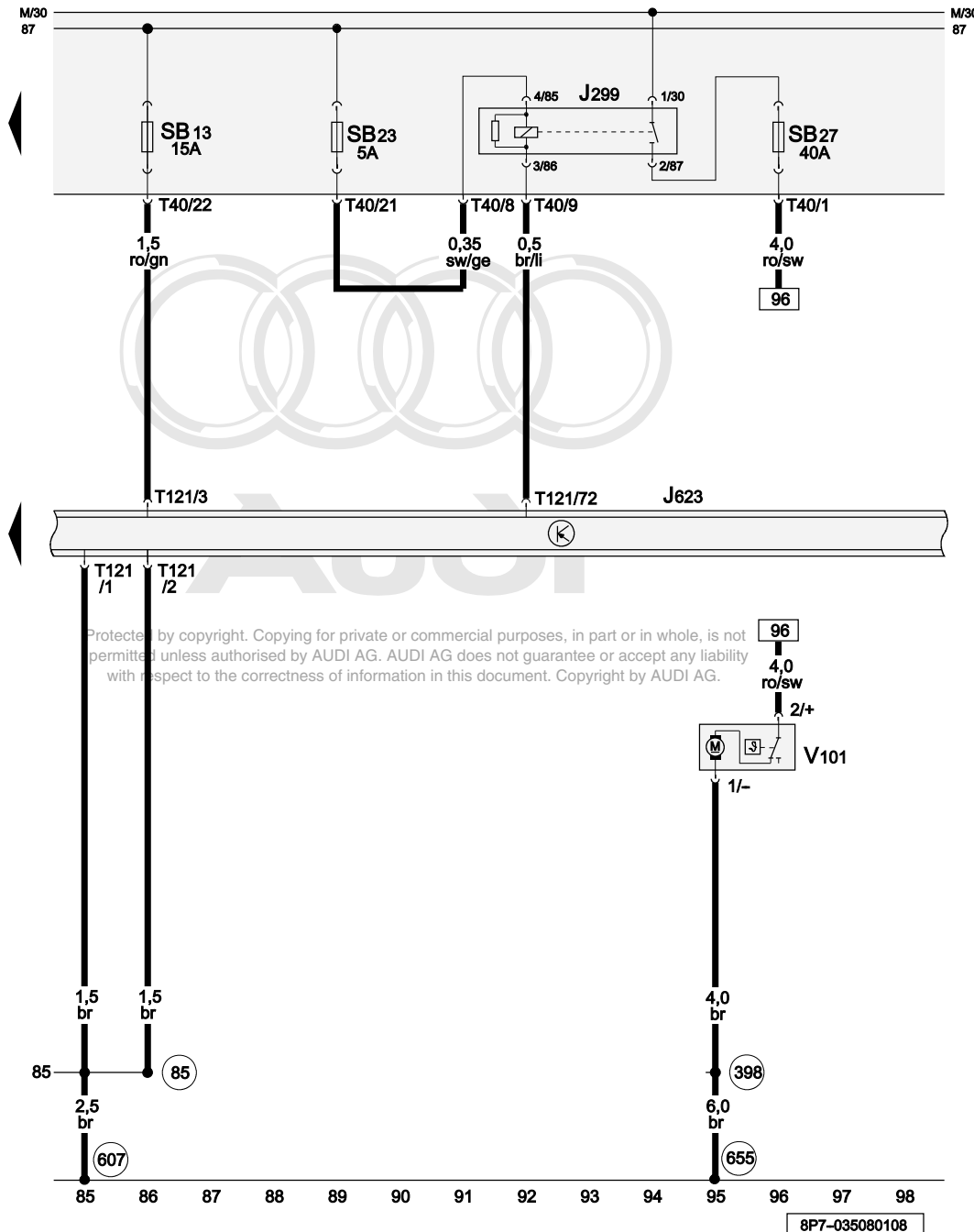
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Alternator

- C Alternator
- J519 Onboard supply control unit
- J623 Engine control unit
- SA5 Fuse 5 on fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, brown, in front left engine compartment
- T4 4-pin connector, black, in front left engine compartment
- T8h 8-pin connector, black (connector F)
- T121 121-pin connector, black, on engine control unit
- 85 Earth connection 1, in engine compartment wiring harness
- B272 Positive connection (30), in main wiring harness
- B344 Connection 1 (61), in main wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models without air conditioning system only
- *** for models with air conditioning system only

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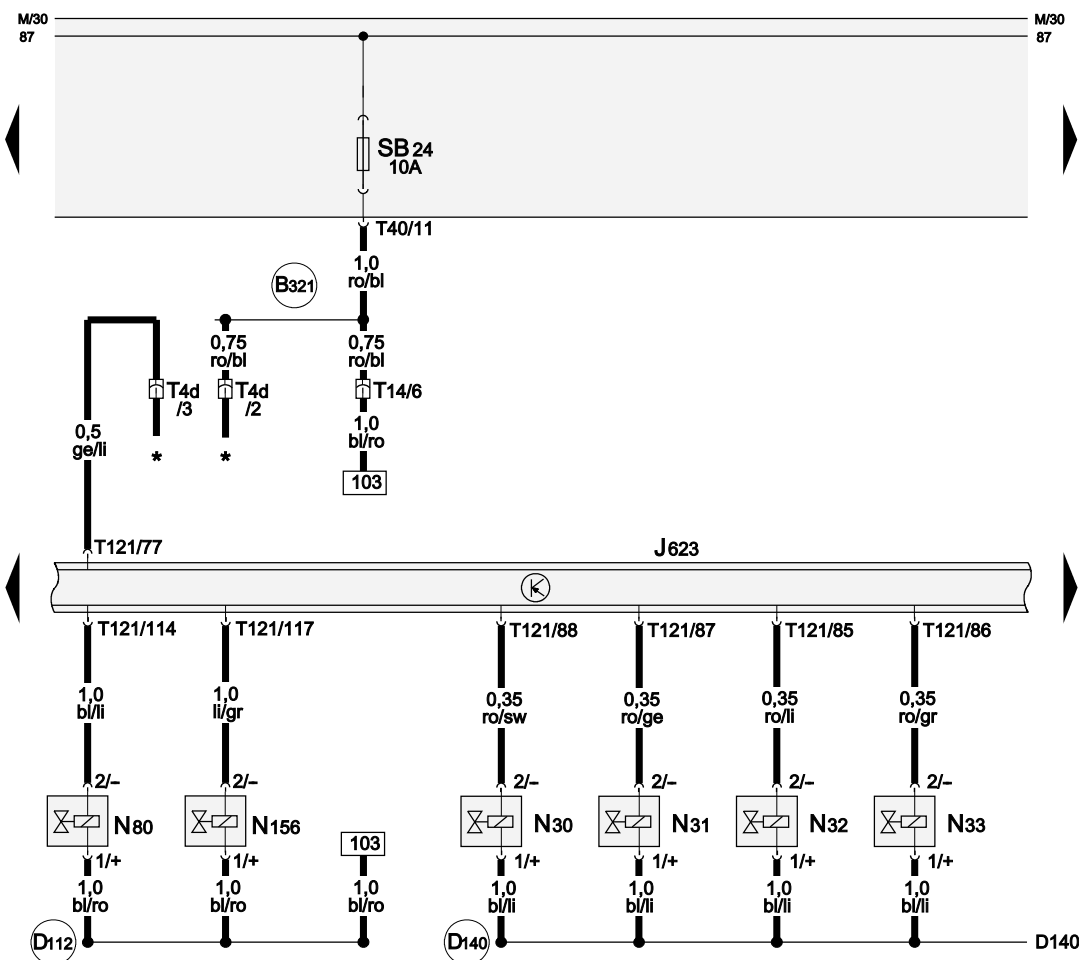


Secondary air pump relay, secondary air pump motor

- J299 Secondary air pump relay
- J623 Engine control unit
- SB13 Fuse 13 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB27 Fuse 27 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- V101 Secondary air pump motor

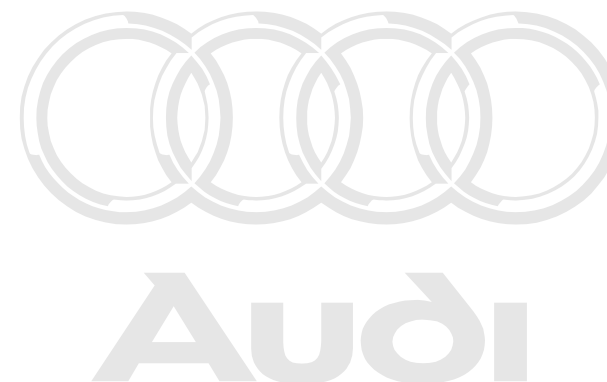
- 85 Earth connection 1, in engine compartment wiring harness
- 398 Earth connection 33, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

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Solenoid valves, injectors

- J623 Engine control unit
- N30 Injector, cylinder 1
- N31 Injector, cylinder 2
- N32 Injector, cylinder 3
- N33 Injector, cylinder 4
- N80 Activated charcoal filter system solenoid valve 1
- N156 Variable intake manifold change-over valve
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- B321 Positive connection 7 (30a), in main wiring harness
- D112 Connection 10, in engine compartment wiring harness
- D140 Connection (injectors), in engine wiring harness
- * ⇒ applicable Current Flow Diagram: radiator fan control



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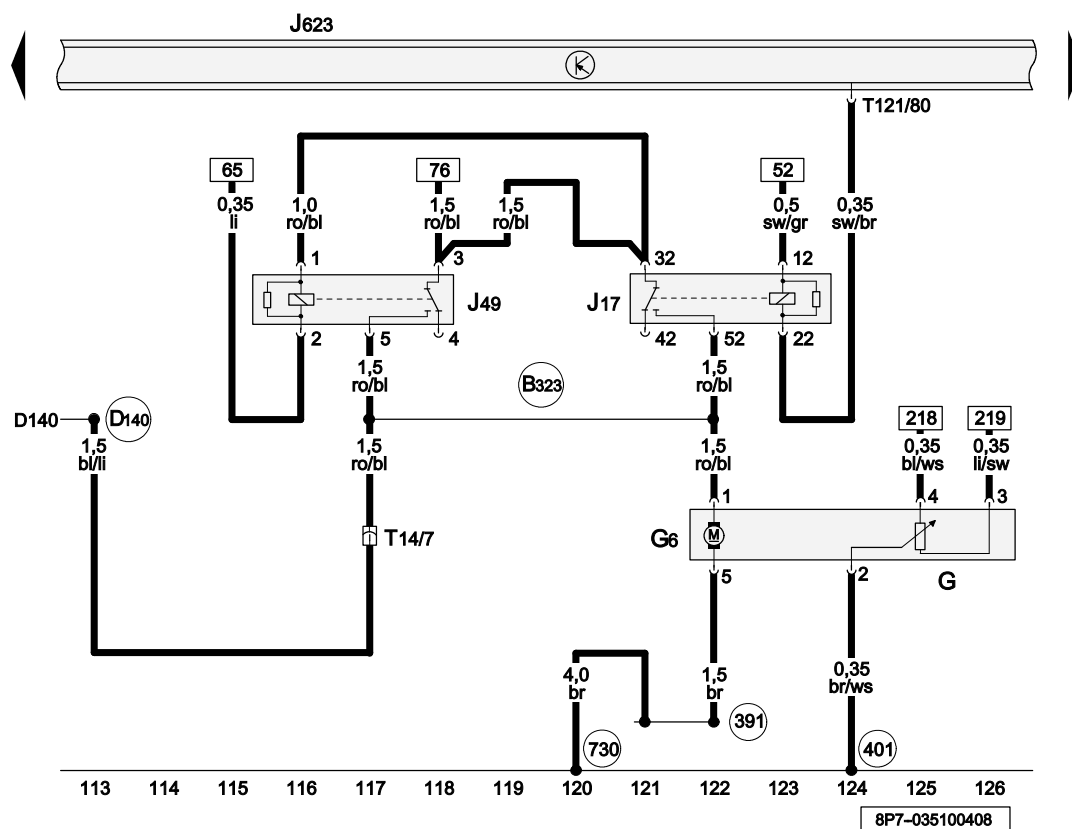
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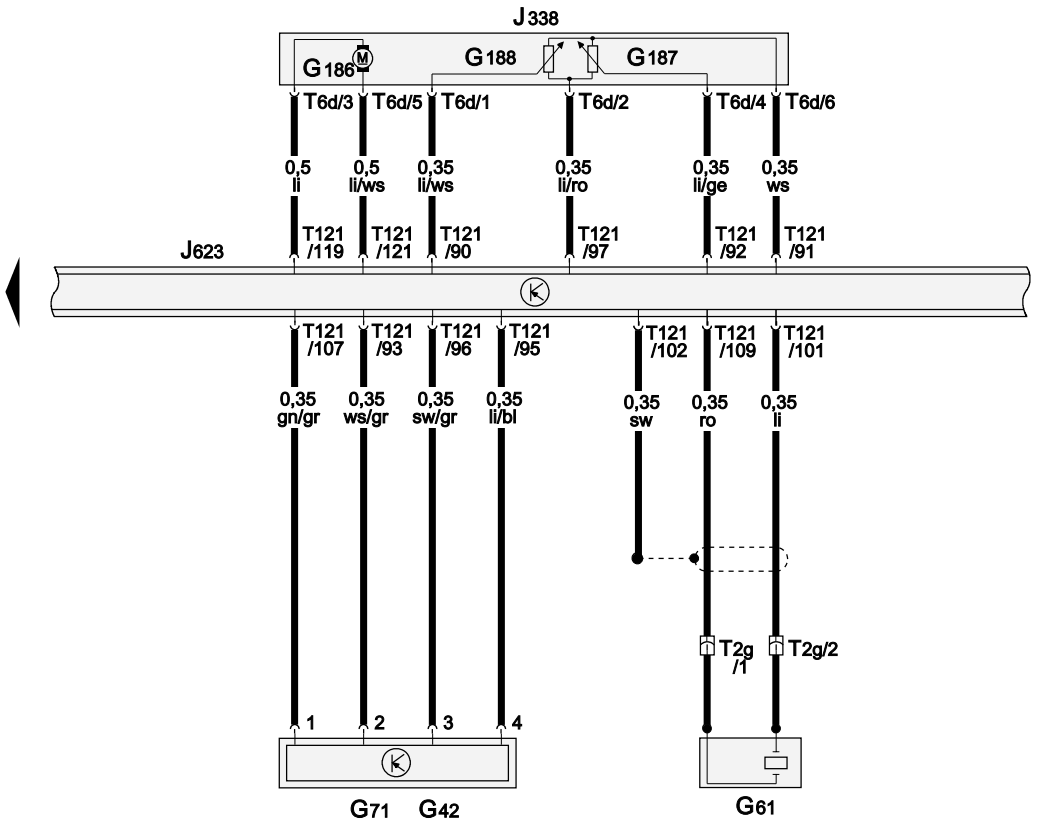
Fuel gauge sender, fuel system pressurisation pump, fuel pump relay

- | | |
|------|---|
| G | Fuel gauge sender |
| G6 | Fuel system pressurisation pump |
| J17 | Fuel pump relay |
| J49 | Electric fuel pump 2 relay |
| J623 | Engine control unit |
| T14 | 14-pin connector, black, near longitudinal member, front left |
| T121 | 121-pin connector, black, on engine control unit |
| 391 | Earth connection 26, in main wiring harness |
| 401 | Earth connection (sender earth), in interior wiring harness |
| 730 | Earth point 1 on rear right wheel housing |
| B323 | Positive connection 9 (30a), in main wiring harness |
| D140 | Connection (injectors), in engine wiring harness |



Throttle valve module, knock sensor, intake manifold pressure sender

- G42 Intake air temperature sender
- G61 Knock sensor 1
- G71 Intake manifold pressure sender
- G186 Throttle valve drive (electric power control)
- G187 Throttle valve drive angle sender 1 for electric throttle
- G188 Throttle valve drive angle sender 2 for electric throttle
- J338 Throttle valve module
- J623 Engine control unit
- T2g 2-pin connector, black, in left engine compartment (knock sensor)
- T6d 6-pin connector, black, near throttle valve module
- T121 121-pin connector, black, on engine control unit



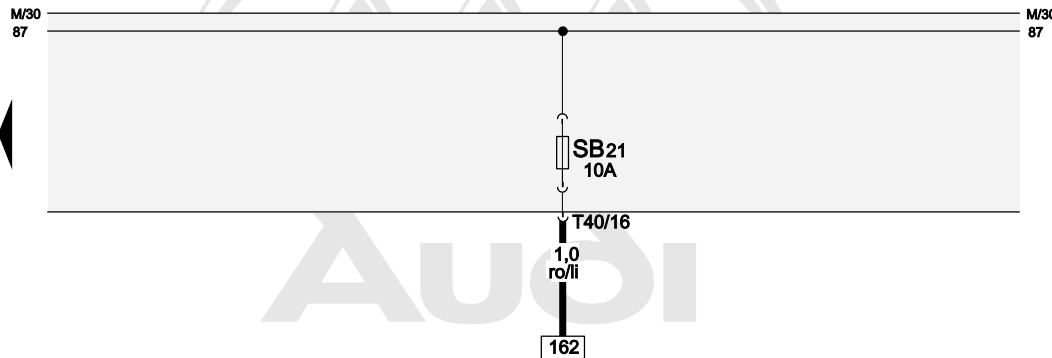
127 128 129 130 131 132 133 134 135 136 137 138 139 140

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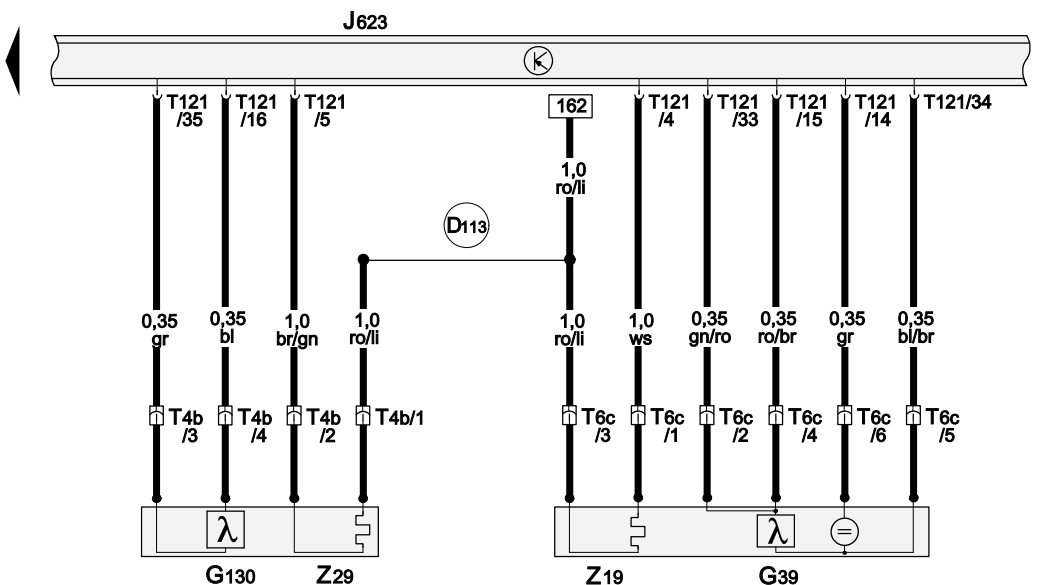


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Lambda probe, lambda probe after catalytic converter

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T4b 4-pin connector, black, on Lambda probe after catalytic converter
- T6c 6-pin connector, black, on Lambda probe upstream of catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter

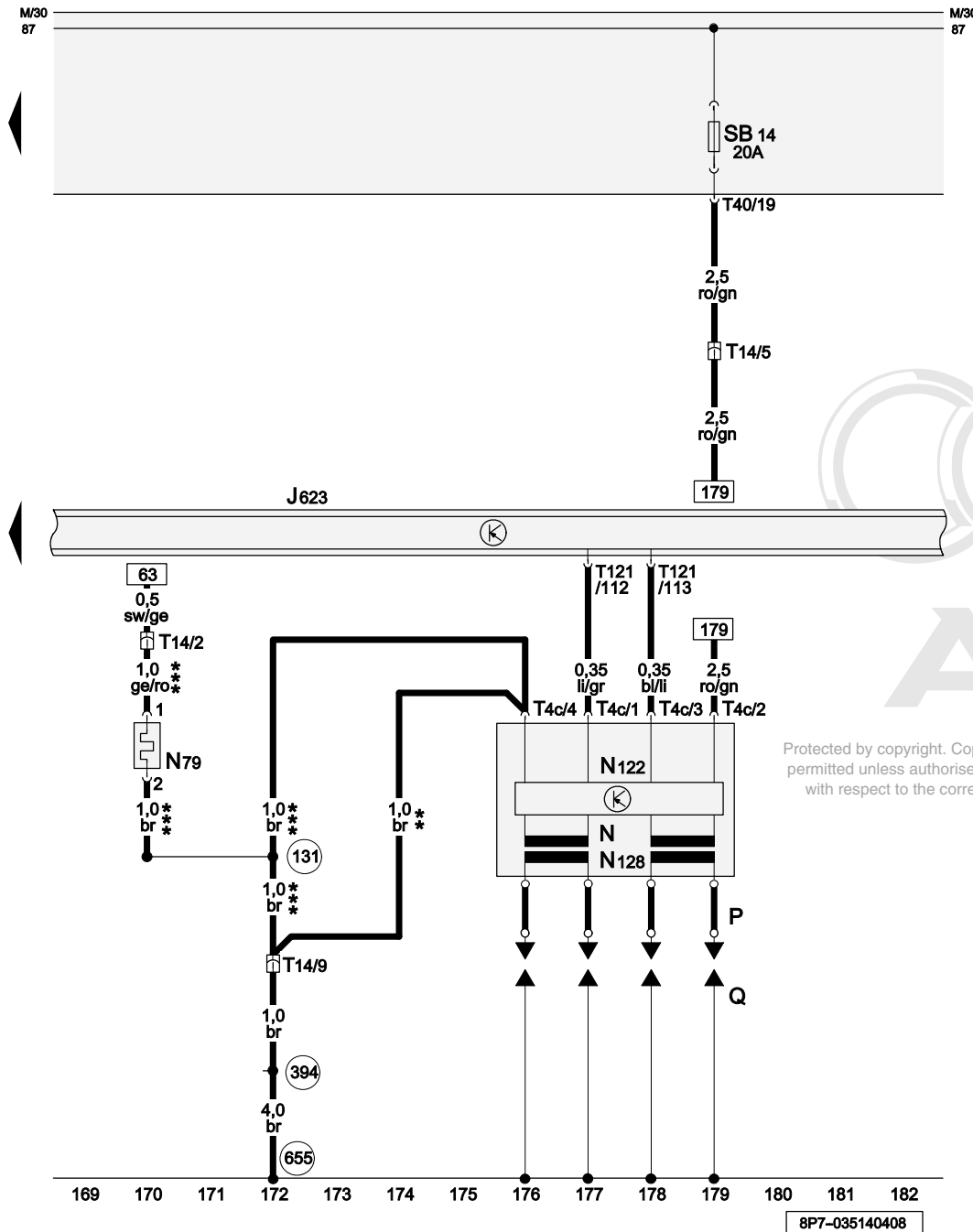
D113 Connection 11, in engine compartment wiring harness



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

155 156 157 158 159 160 161 162 163 164 165 166 167 168

8P7-035130408



Ignition coils with output stage, heater element for crankcase breather

- J623 Engine control unit
- N Ignition coil 1 with output stage
- N79 Heater element for crankcase breather
- N122 Output stage
- N128 Ignition coil 2
- P Spark plug connector
- Q Spark plugs
- SB14 Fuse 14 on fuse holder B
- T4c 4-pin connector, black, on the output stage
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit

131 Earth connection 2, in engine compartment wiring harness

394 Earth connection 29, in main wiring harness

655 Earth point, on left headlight

** for models without heater element only
 *** for models with heater element only

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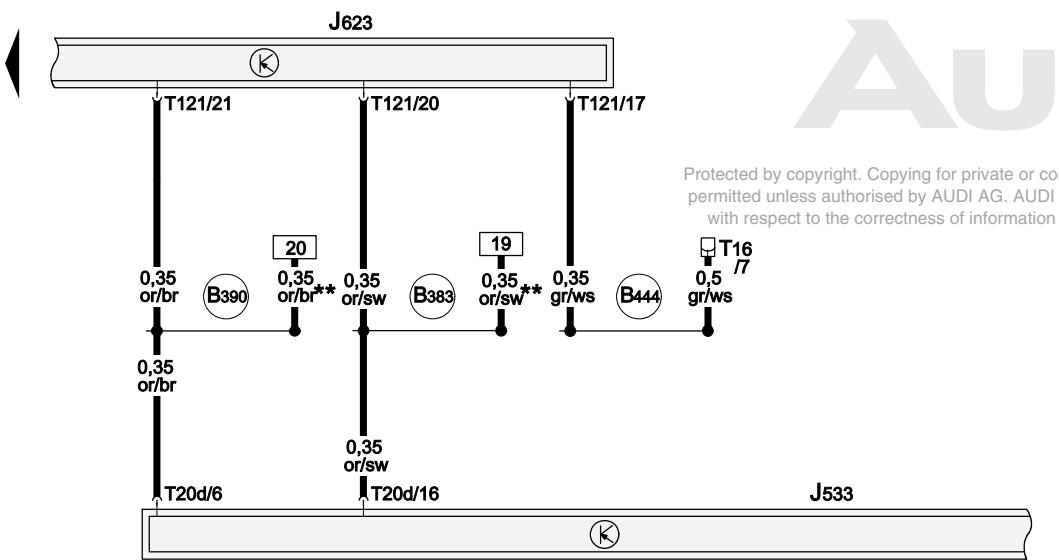
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8P7-035140408



Drive train CAN bus, diagnosis

- J533 Data bus diagnostic interface
- J623 Engine control unit
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)
- T121 121-pin connector, black, on engine control unit
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness
- ** for models with CAN bus drive train only

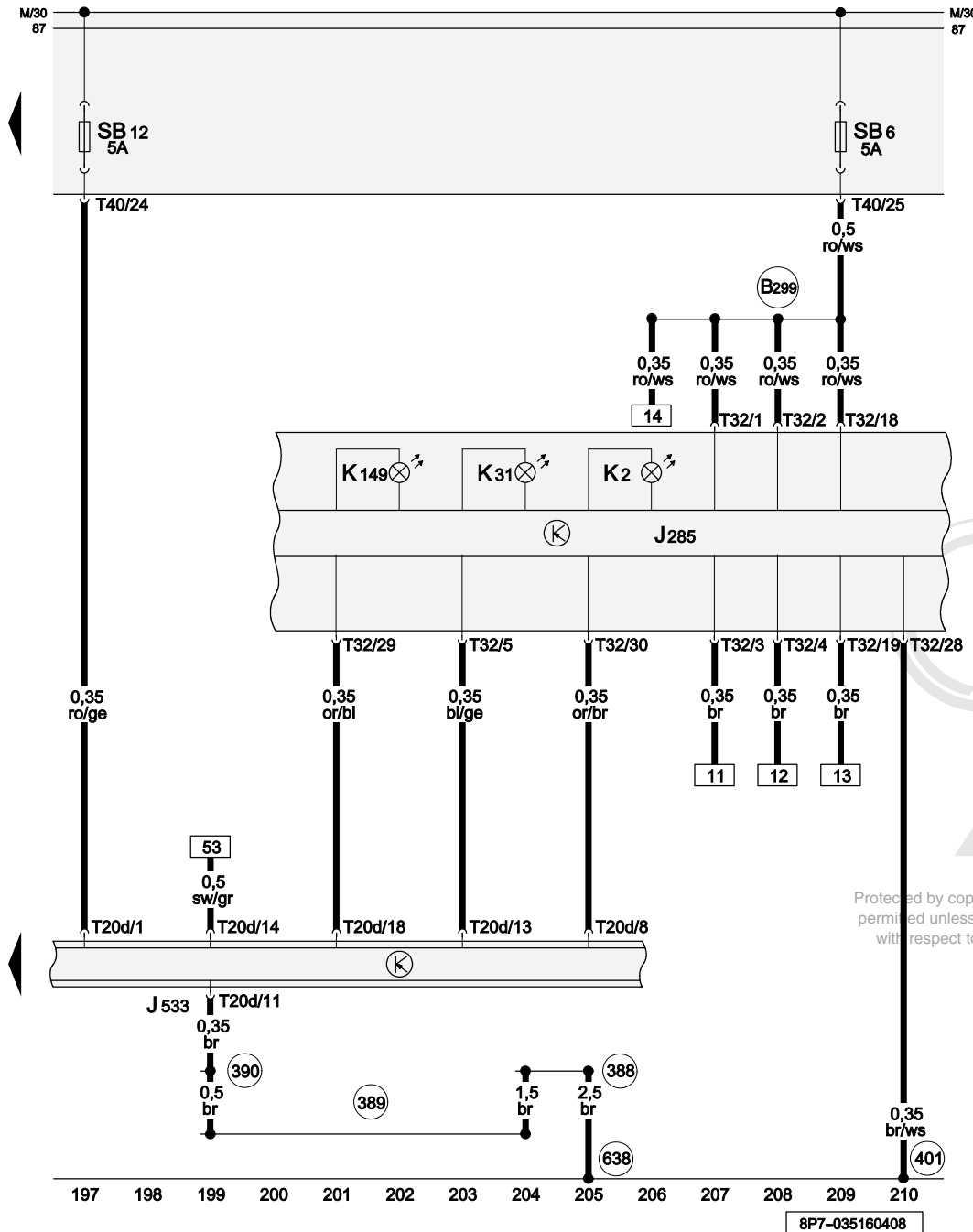


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183 184 185 186 187 188 189 190 191 192 193 194 195 196

8P7-035150408

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Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- SB6 Fuse 6 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 638 Earth point, right A-pillar
- B299 Positive connection 3 (30), in main wiring harness



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8P7-035160408



Oil pressure switch, oil level and oil temperature sender

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, black, near longitudinal member, front left
- T14 14-pin connector, black, near longitudinal member, front left
- T32 32-pin connector, blue (connector A)

381 Earth connection 16, in main wiring harness

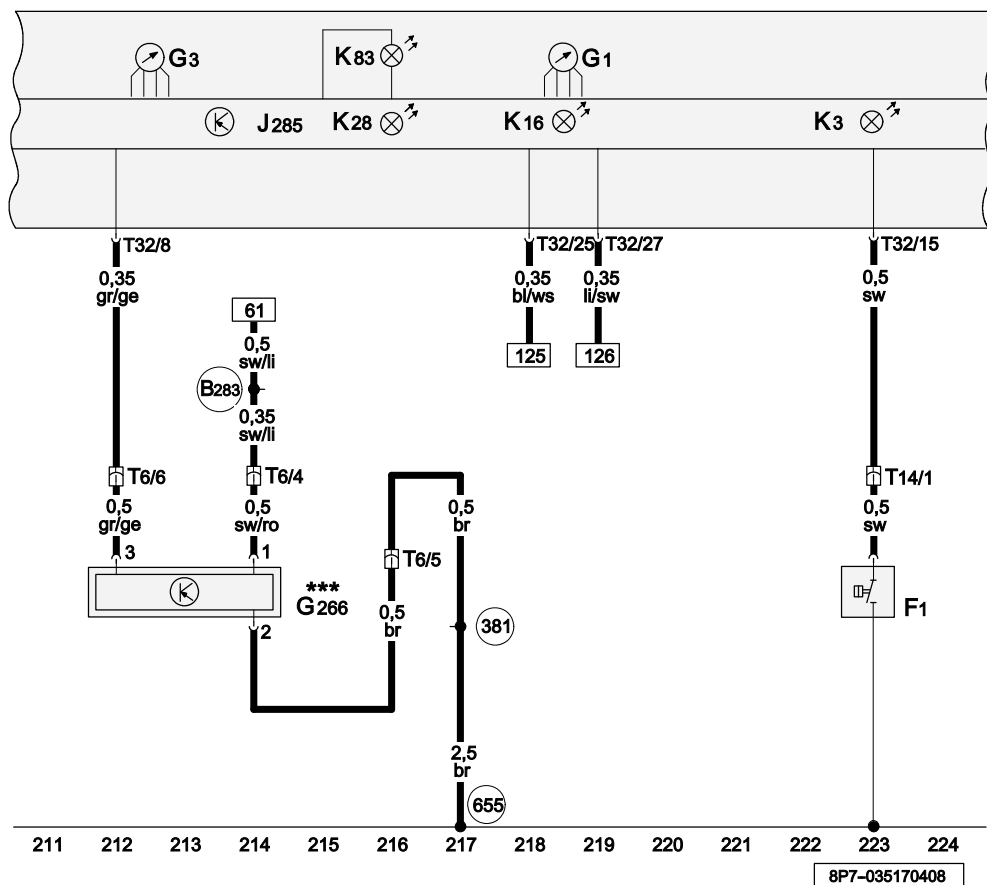
655 Earth point, on left headlight

B283 Positive connection 7 (15a), in main wiring harness

*** for models with extended servicing intervals (ESI) only



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Tyre pressure monitor

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

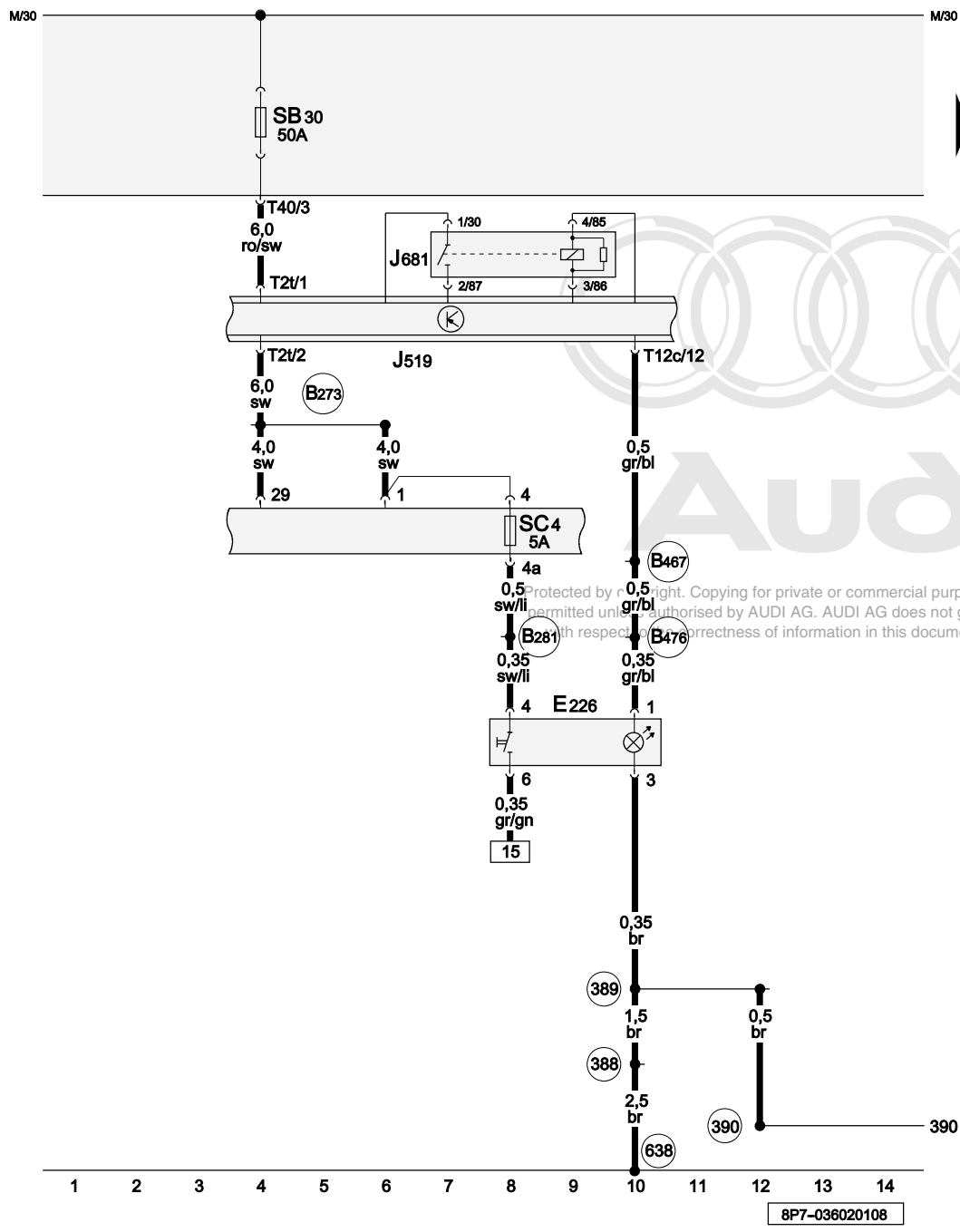
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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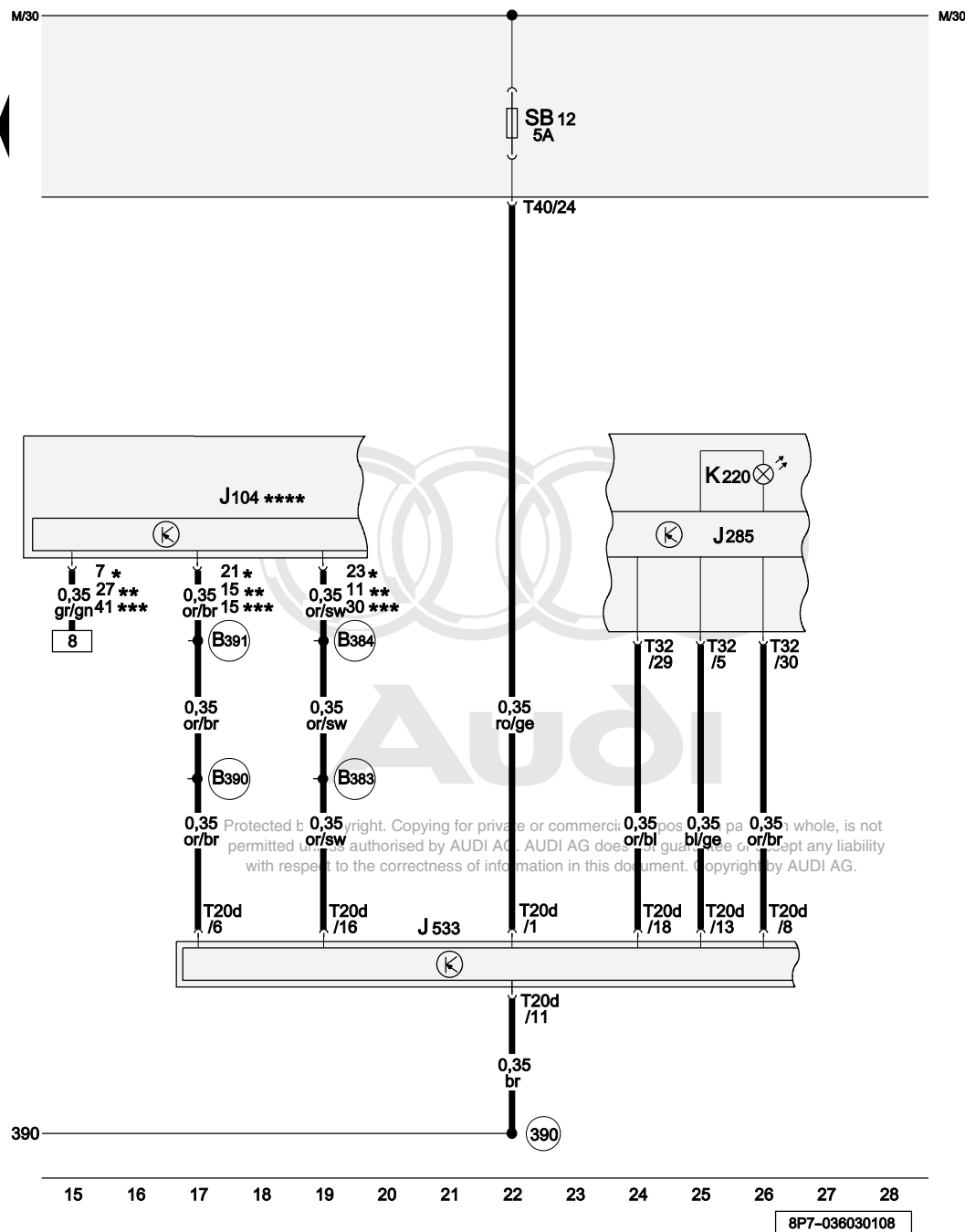


Tyre pressure monitor button

- | | |
|------|---|
| E226 | Tyre pressure monitor button |
| J519 | Onboard supply control unit |
| J681 | Terminal 15 voltage supply relay 2 |
| SB30 | Fuse 30 on fuse holder B |
| SC4 | Fuse 4 on fuse holder C |
| T2t | 2-pin connector, black (connector L) |
| T12c | 12-pin connector, black (connector B) |
| T40 | 40-pin connector, black, on electronics box in engine compartment (connector J) |

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, right A-pillar
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B467 Connection 3 in main wiring harness
- B476 Connection 12 in main wiring harness

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Control unit in dash panel insert, tyre pressure monitor warning lamp

- J104 ABS control unit
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K220 Tyre pressure monitor warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- B390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B391 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness

- * for models with anti-lock brake system (ABS) MK70 only
- ** for models with anti-lock brake system (ABS) MK60 and without hydraulic brake servo (HBV) only
- *** for models with anti-lock brake system (ABS) MK60 and hydraulic brake servo (HBV) only
- **** => applicable Current Flow Diagram: anti-lock brake system (ABS)



Interface for special functions:

from November 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

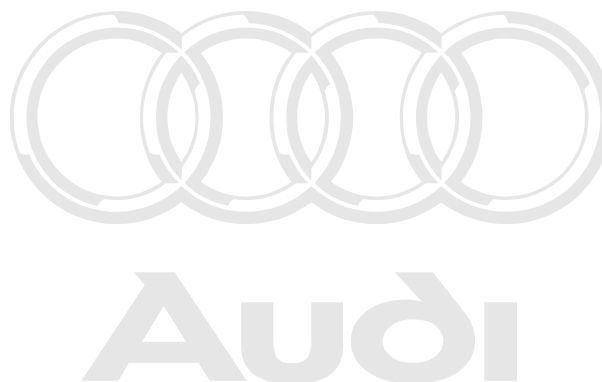
- ◆ Earth connections

⇒ List of Fitting Locations!

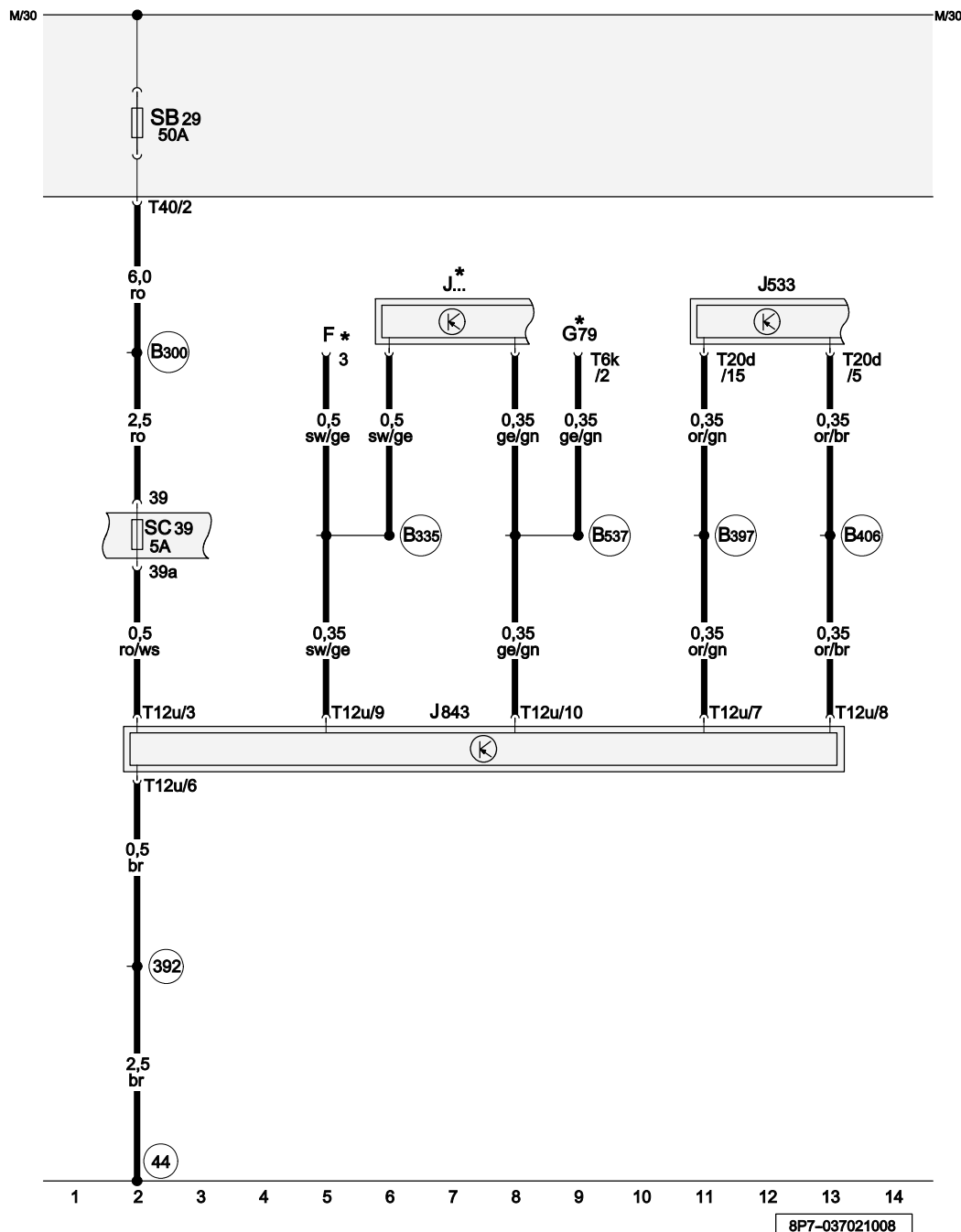
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder, interface for special functions

F	Brake light switch
G79	Accelerator position sender
J...	Engine control units
J533	Data bus diagnostic interface
J843	Interface control unit for vehicle location system
SB29	Fuse 29 on fuse holder B
SC39	Fuse 39 on fuse holder C
T6k	6-pin connector, black, near accelerator position sender
T12u	12-pin connector, brown (connector B)
T20d	20-pin connector, black (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)

- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B300 Positive connection 4 (30), in main wiring harness
- B335 Connection 1 (54), in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B537 Connection 28 in main wiring harness

* ⇒ applicable engine Current Flow Diagram

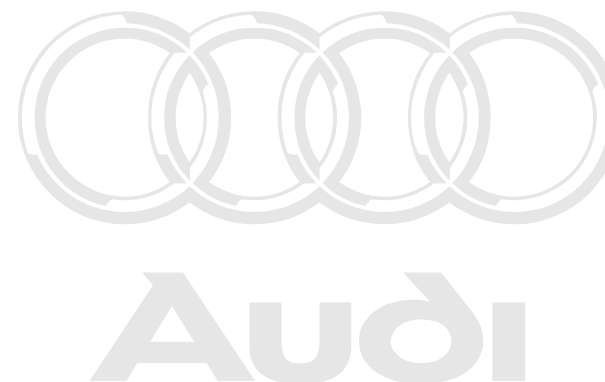
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Data bus network

From March 2008



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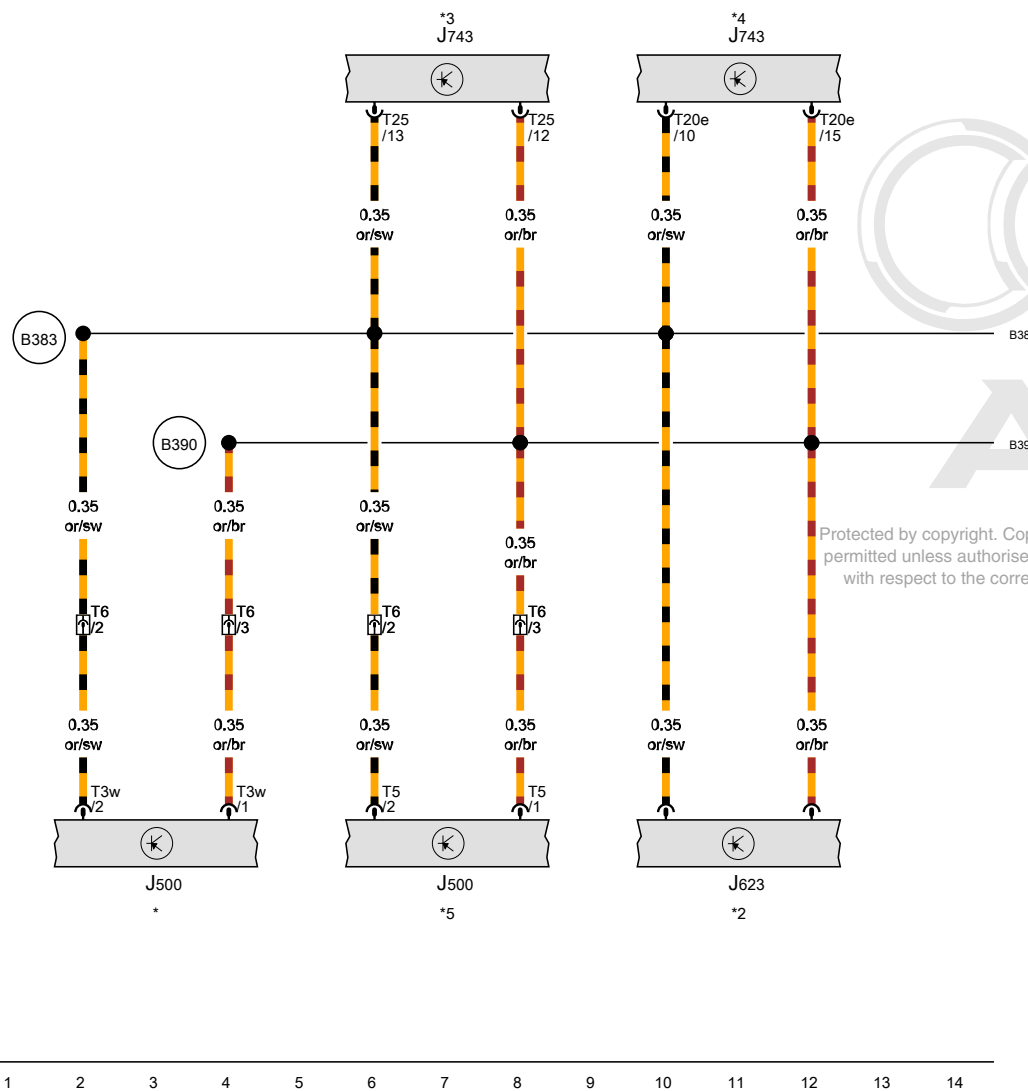
Connection 1 (powertrain CAN bus, high), in main wiring harness, Connection 1 (powertrain CAN bus, low), in main wiring harness

- J500 Power steering control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T3w 3-pin connector
- T5 5-pin connector
- T6 6-pin connector
- T20e 20-pin connector
- T25 25-pin connector

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

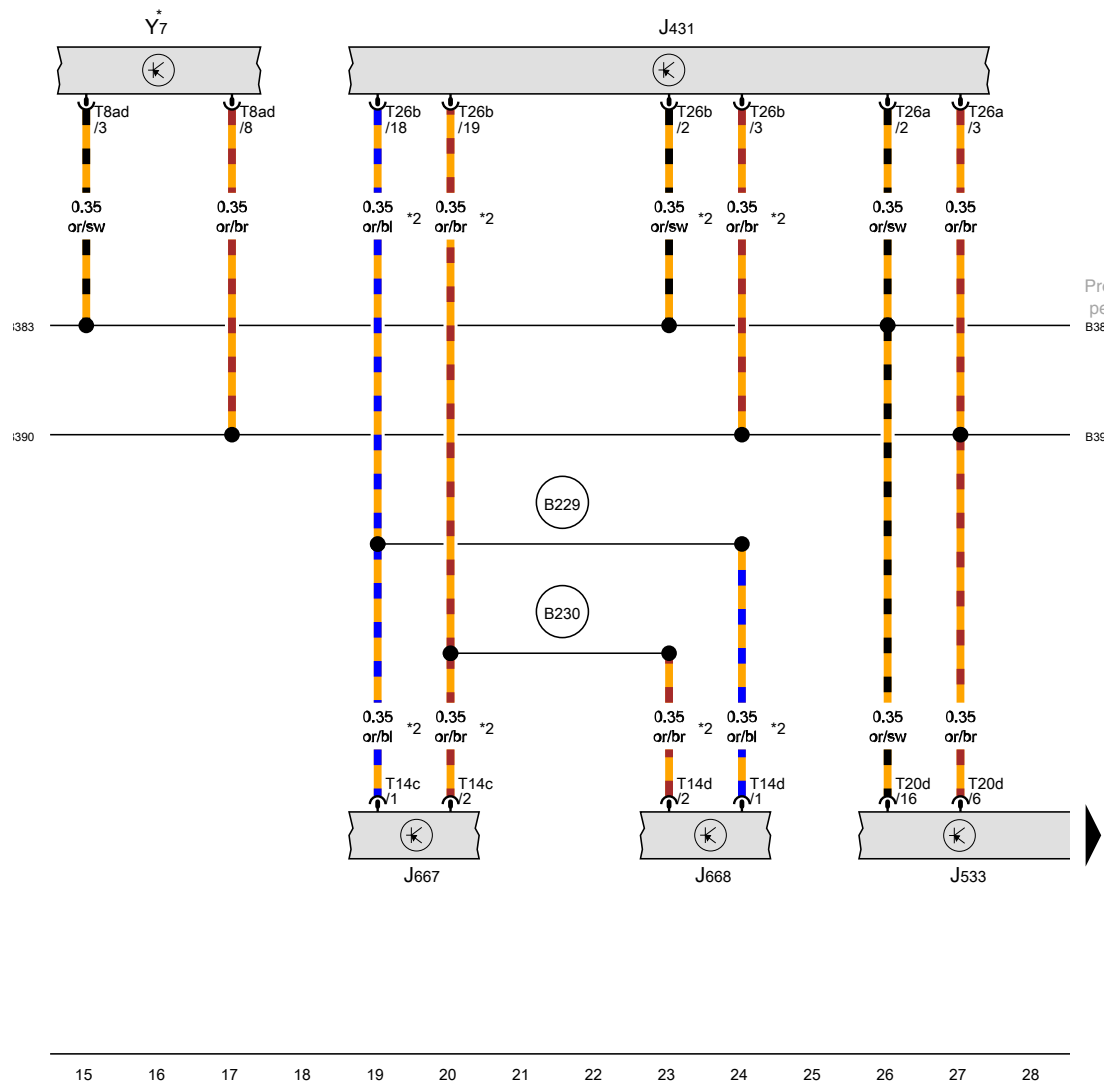
B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

- * From May 2008
- *2 see applicable current flow diagram for engine
- *3 Only models with dual clutch gearbox 0AM
- *4 Only models with dual clutch gearbox 02E
- *5 Up to April 2008



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Connection (high bus), in interior wiring harness,
 Connection (low bus), in interior wiring harness, Connection
 1 (powertrain CAN bus, high), in main wiring harness,
 Connection 1 (powertrain CAN bus, low), in main wiring
 harness

- J431 Headlight range control unit
- J533 Data bus diagnostic interface
- J667 Output module for left headlight
- J668 Output module for right headlight
- T8ad 8-pin connector
- T14c 14-pin connector
- T14d 14-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector
- Y7 Automatic anti-dazzle interior mirror

B229 Connection (high bus), in interior wiring harness

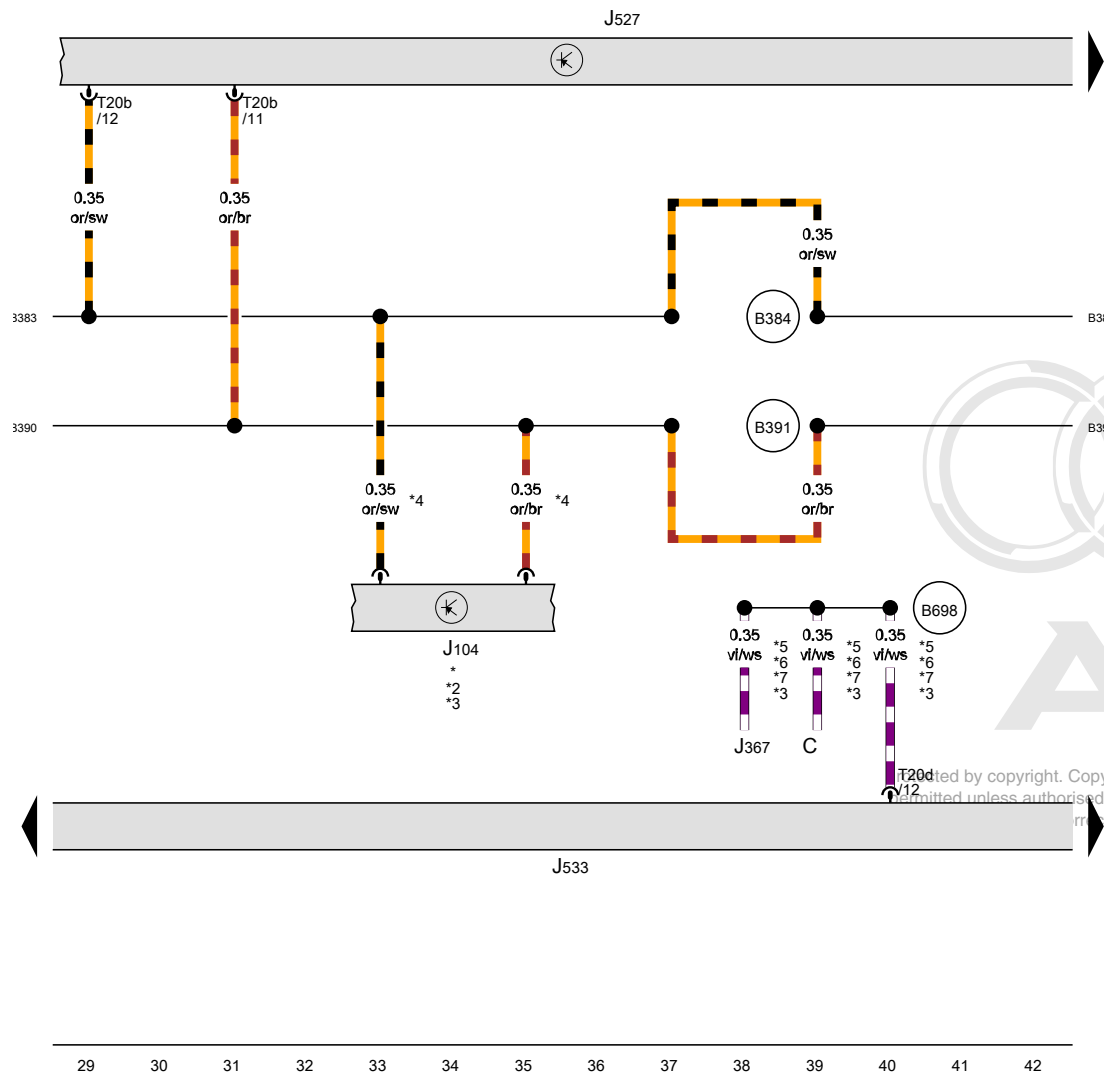
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B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

- * Only models with main beam assist
- *2 Only models with dynamic cornering light

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Connection 1 (powertrain CAN bus, high), in main wiring harness, Connection 2 (powertrain CAN bus, high), in main wiring harness, Connection 1 (powertrain CAN bus, low), in main wiring harness, Connection 2 (powertrain CAN bus, low), in main wiring harness, Connection 3 (LIN bus) in main wiring harness

- C Alternator
- J104 ABS control unit
- J367 Battery monitor control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- B698 Connection 3 (LIN bus) in main wiring harness
- * Only models with ABS and TCS
- *2 Only models with ABS/ABS and ESP
- *3 see applicable current flow diagram
- *4 Only right-hand drive models
- *5 Only models with energy recovery
- *6 Only models with start/stop system
- *7 Only models with battery in engine compartment

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sw = black
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gn = green
bl = blue
gr = grey
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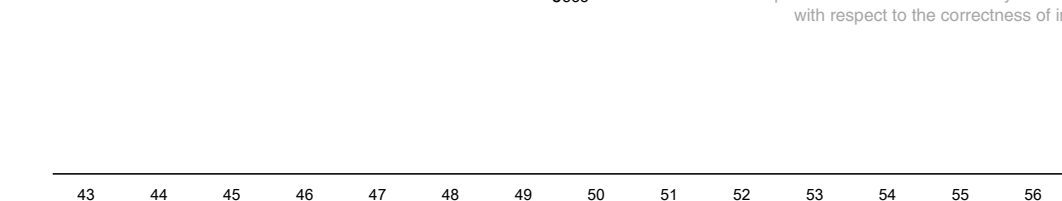
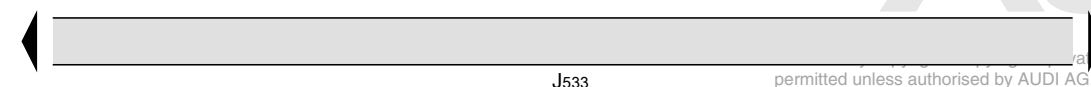
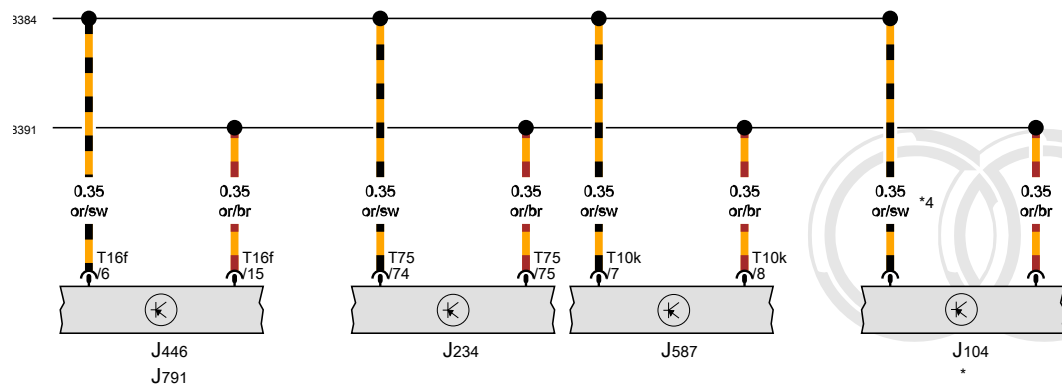
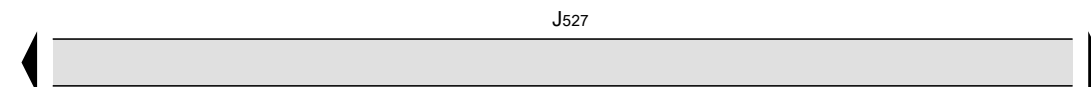
Connection 2 (powertrain CAN bus, high), in main wiring harness, Connection 2 (powertrain CAN bus, low), in main wiring harness

- J104 ABS control unit
- J234 Airbag control unit
- J446 Parking aid control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- J587 Selector lever sensors control unit
- J791 Park assist steering control unit
- T10k 10-pin connector
- T16f 16-pin connector
- T75 75-pin connector

B384 Connection 2 (powertrain CAN bus, high), in main wiring harness

B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

- * Only models with ABS and TCS
- *2 Only models with ABS/ ABS and ESP
- *3 see applicable current flow diagram
- *4 Only left-hand drive models



43 44 45 46 47 48 49 50 51 52 53 54 55 56

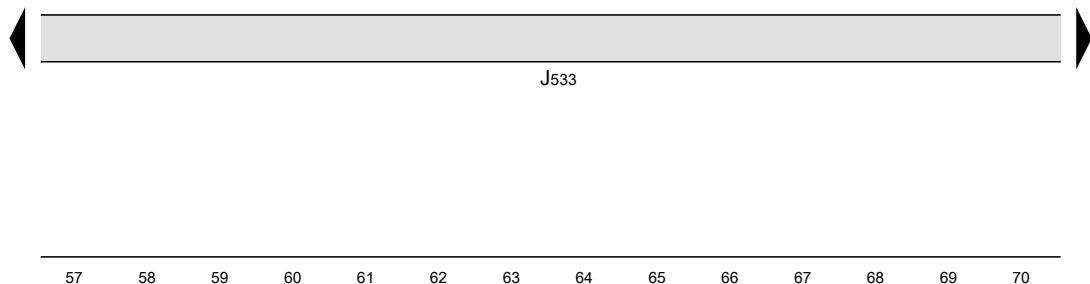
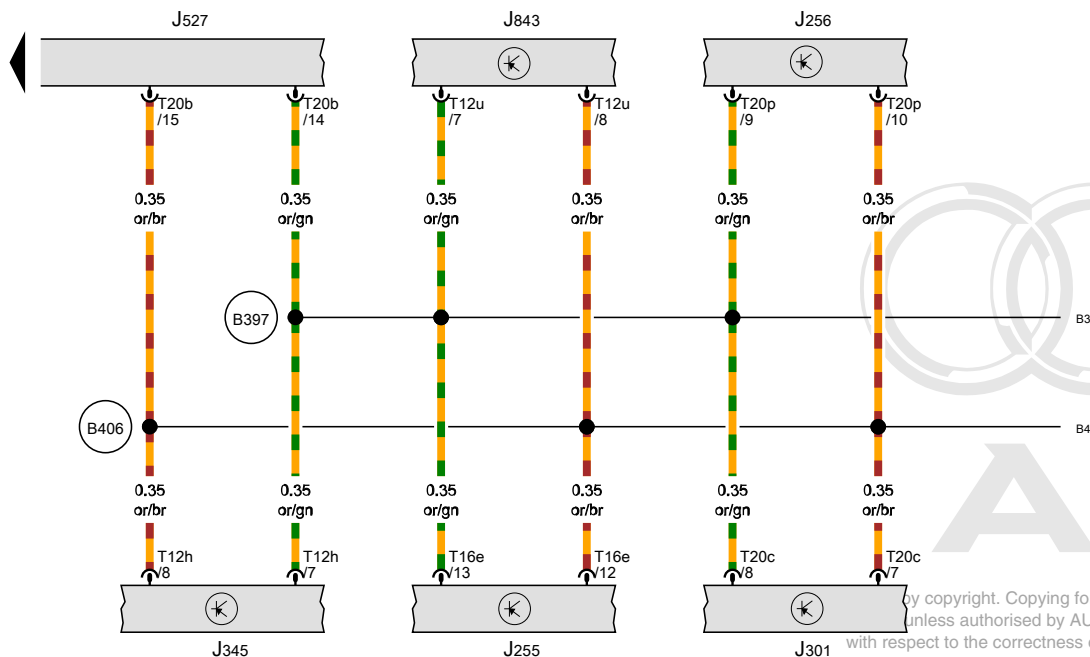
[AP7-03R050411]

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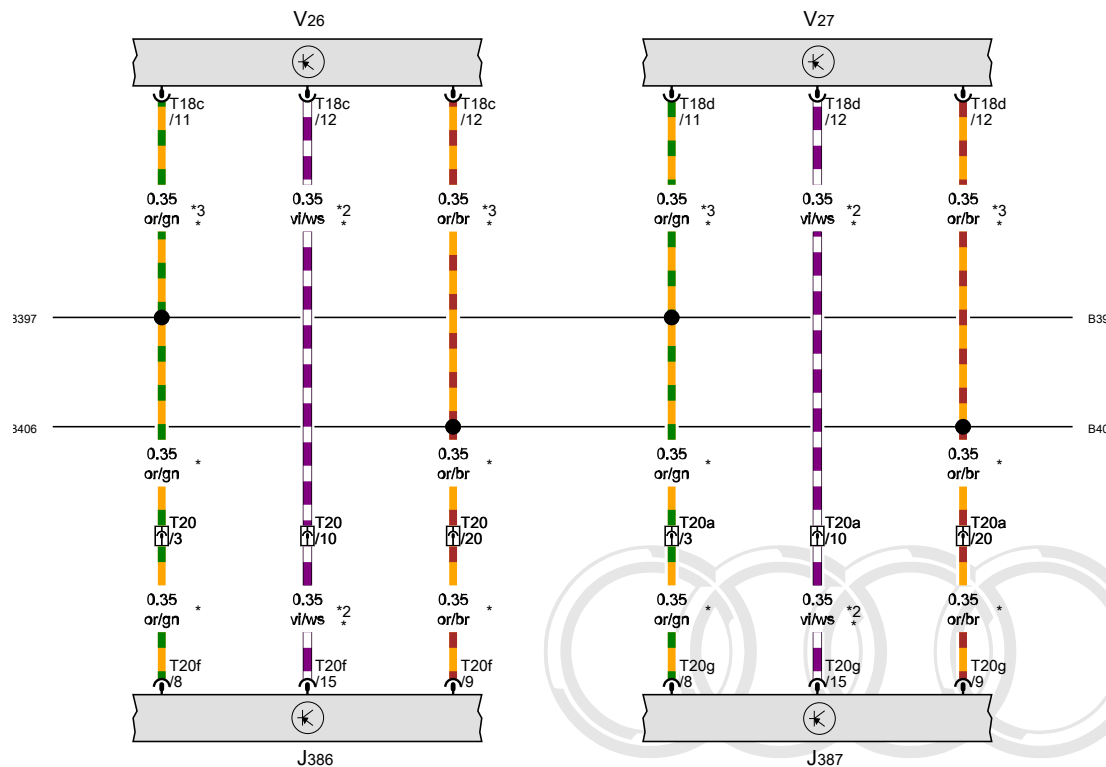
Connection 1 (convenience CAN bus, high), in main wiring harness, Connection 1 (convenience CAN bus, low), in main wiring harness

- J255 Climatronic control unit
- J256 Convertible roof actuation control unit
- J301 Air conditioning system control unit
- J345 Trailer detector control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- J843 Interface control unit for vehicle location system
- T12h 12-pin connector
- T12u 12-pin connector
- T16e 16-pin connector
- T20b 20-pin connector
- T20c 20-pin connector
- T20p 20-pin connector

- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness



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Connection 1 (convenience CAN bus, high), in main wiring harness, Connection 1 (convenience CAN bus, low), in main wiring harness

- J386 Driver door control unit
- J387 Front passenger door control unit
- J533 Data bus diagnostic interface
- T18c 18-pin connector
- T18d 18-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- T20f 20-pin connector
- T20g 20-pin connector
- V26 Rear left window regulator motor
- V27 Rear right window regulator motor

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * Only left-hand drive models
- *2 From May 2008
- *3 Up to April 2008

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[AP7-03R070411]

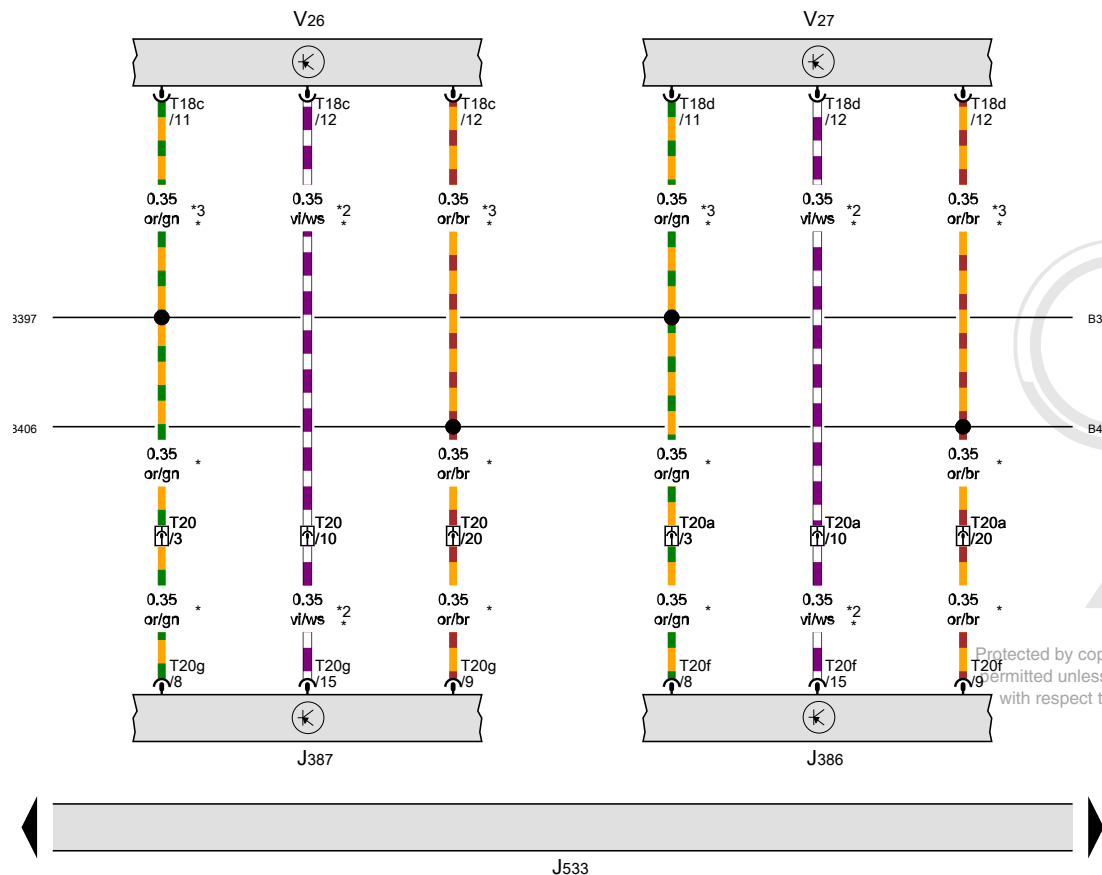
Connection 1 (convenience CAN bus, high), in main wiring harness, Connection 1 (convenience CAN bus, low), in main wiring harness

- J386 Driver door control unit
- J387 Front passenger door control unit
- J533 Data bus diagnostic interface
- T18c 18-pin connector
- T18d 18-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- T20f 20-pin connector
- T20g 20-pin connector
- V26 Rear left window regulator motor
- V27 Rear right window regulator motor

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

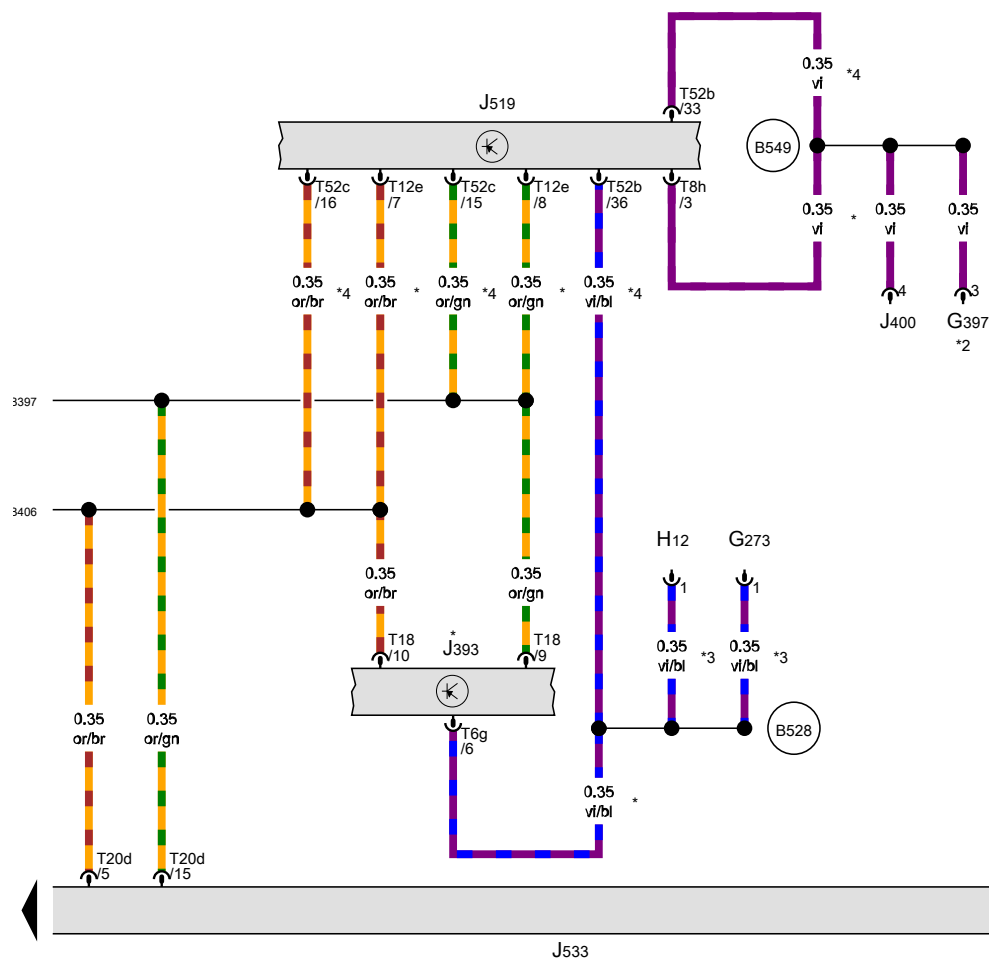
B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * Only right-hand drive models
- *2 From May 2008
- *3 Up to April 2008



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[AP7-03R0R0411]



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Connection 1 (convenience CAN bus, high), in main wiring harness, Connection 1 (convenience CAN bus, low), in main wiring harness, Connection 1 (LIN bus) in main wiring harness, Connection 2 (LIN bus) in main wiring harness

G273	Interior monitoring sensor
G397	Rain and light sensor
H12	Alarm horn
J393	Convenience system central control unit
J400	Wiper motor control unit
J519	Onboard supply control unit
J533	Data bus diagnostic interface
T6g	6-pin connector
T8h	8-pin connector
T12e	12-pin connector
T18	18-pin connector
T20d	20-pin connector
T52b	52-pin connector
T52c	52-pin connector

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

(B528) Connection 1 (LIN bus) in main wiring harness

(B549) Connection 2 (LIN bus) in main wiring harness

- * Up to April 2009
- *2 Only models with automatic driving lights control
- *3 For models with anti-theft alarm system
- *4 From May 2009

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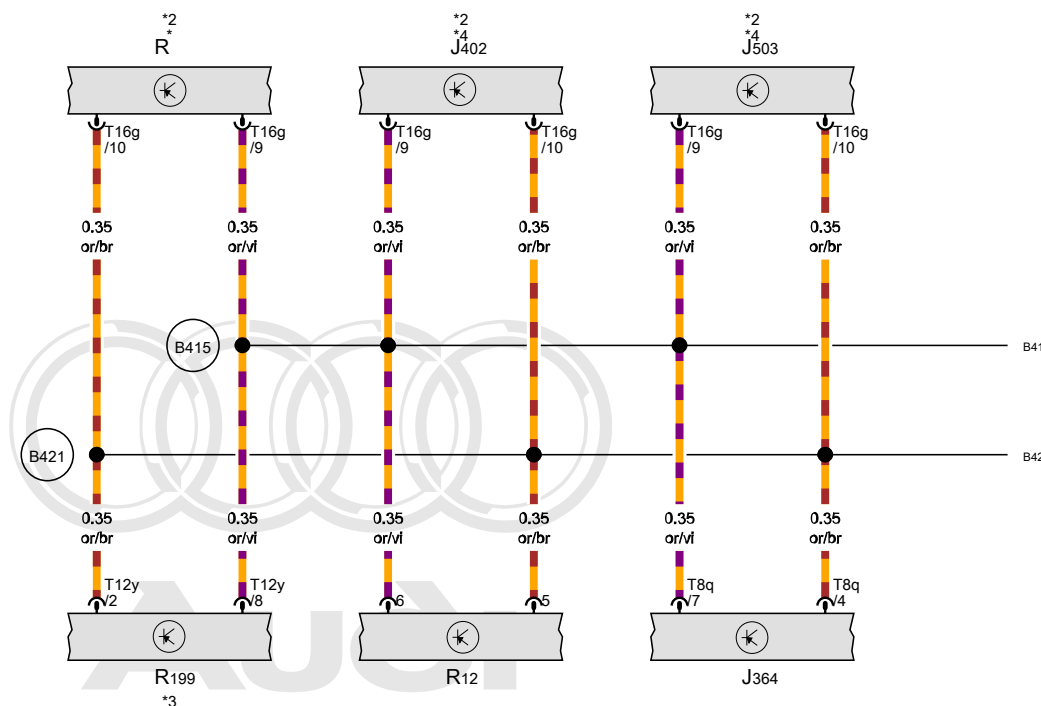
Connection 1 (infotainment CAN bus, high), in main wiring harness, Connection 1 (infotainment CAN bus, low), in main wiring harness

- J364 Auxiliary heater control unit
- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation
- J533 Data bus diagnostic interface
- R Radio
- R12 Amplifier
- R199 Connection for external audio sources
- T8q 8-pin connector
- T12y 12-pin connector
- T16g 16-pin connector

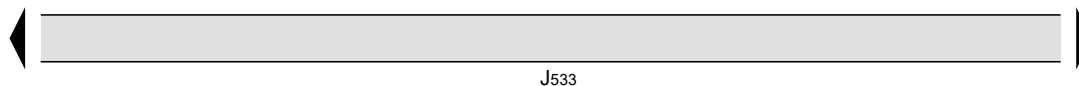
B415 Connection 1 (infotainment CAN bus, high), in main wiring harness

B421 Connection 1 (infotainment CAN bus, low), in main wiring harness

- * Only models with radio
- *2 see applicable current flow diagram
- *3 Only models with connection for external audio sources - Audi music interface
- *4 Only models with radio navigation system



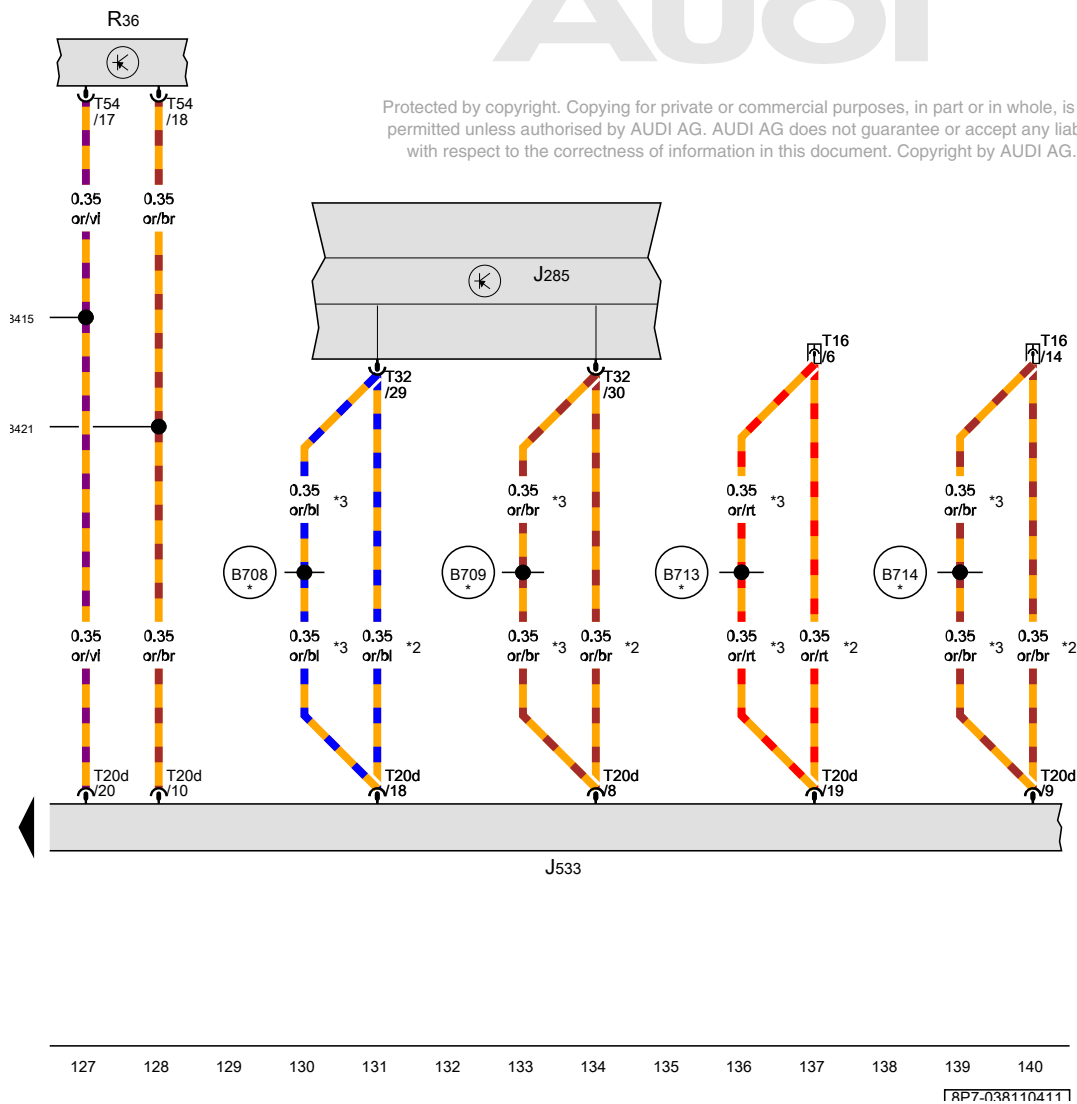
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113 114 115 116 117 118 119 120 121 122 123 124 125 126

[AP7-03R100411]



Connection 1 (infotainment CAN bus, high), in main wiring harness, Connection 1 (infotainment CAN bus, low), in main wiring harness, Connection 1 (dash panel insert CAN bus high) in main wiring harness, Connection 1 (dash panel insert CAN bus low) in main wiring harness, Connection 1 (CAN bus diagnosis, high), in main wiring harness, Connection 1 (CAN bus diagnosis, low), in main wiring harness

J285 Control unit in dash panel insert
J533 Data bus diagnostic interface
R36 Telephone transmitter and receiver unit
T16 16-pin connector
T20d 20-pin connector
T32 32-pin connector
T54 54-pin connector

- (B415) Connection 1 (infotainment CAN bus, high), in main wiring harness
- (B421) Connection 1 (infotainment CAN bus, low), in main wiring harness
- (B708) Connection 1 (dash panel insert CAN bus high) in main wiring harness
- (B709) Connection 1 (dash panel insert CAN bus low) in main wiring harness
- (B713) Connection 1 (CAN bus diagnosis, high), in main wiring harness
- (B714) Connection 1 (CAN bus diagnosis, low), in main wiring harness

* Gradually discontinued
*2 Up to April 2009
*3 From May 2009

Radiator fan control 520 W

⇒ for diesel engines with air conditioning system only

⇒ Engine code BLS

from March 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

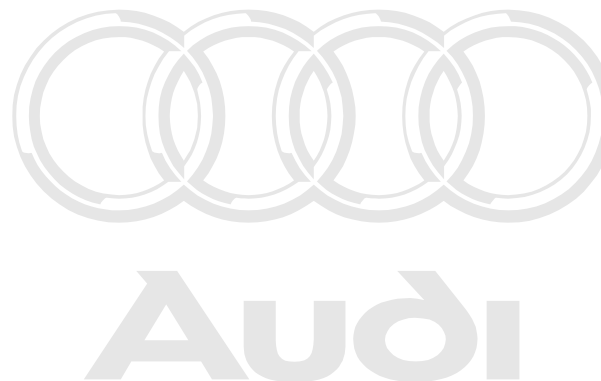
◆ Earth connections

⇒ List of Fitting Locations!

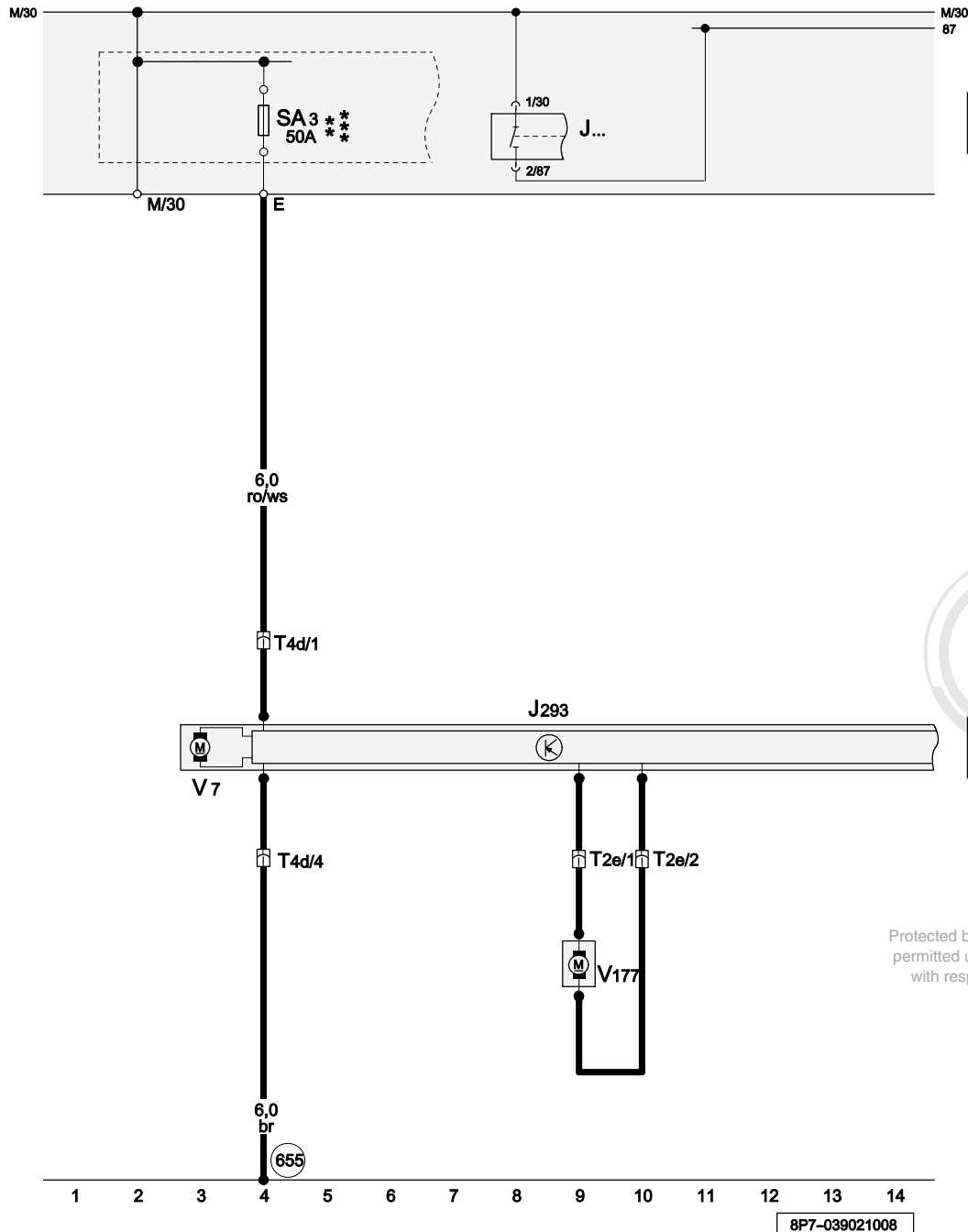
For information concerning

◆ Fault Finding Programs

⇒ guided fault finding



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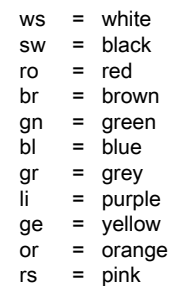


Radiator fan, radiator fan 2

- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- V7 Radiator fan
- V177 Radiator fan 2
- 655 Earth point, on left headlight
- ** depends on equipment (8Z4, 8Z5, 8Z7) with manual gearbox and trailer operation or automatic gearbox and trailer operation, engine code BLS
- *** depends on equipment (8Z6, 8Z9), engine code BLS

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G83	Radiator outlet coolant temperature sender
J...	Engine control units
J293	Radiator fan control unit
SB24	Fuse 24 on fuse holder B
T4d	4-pin connector, black, on radiator fan (front end)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
T60	60-pin connector, black (connector A)
T94	94-pin connector, black (connector B)



Radiator fan control 340 W

⇒ for diesel engines with air conditioning system only

⇒ Engine code BLS

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

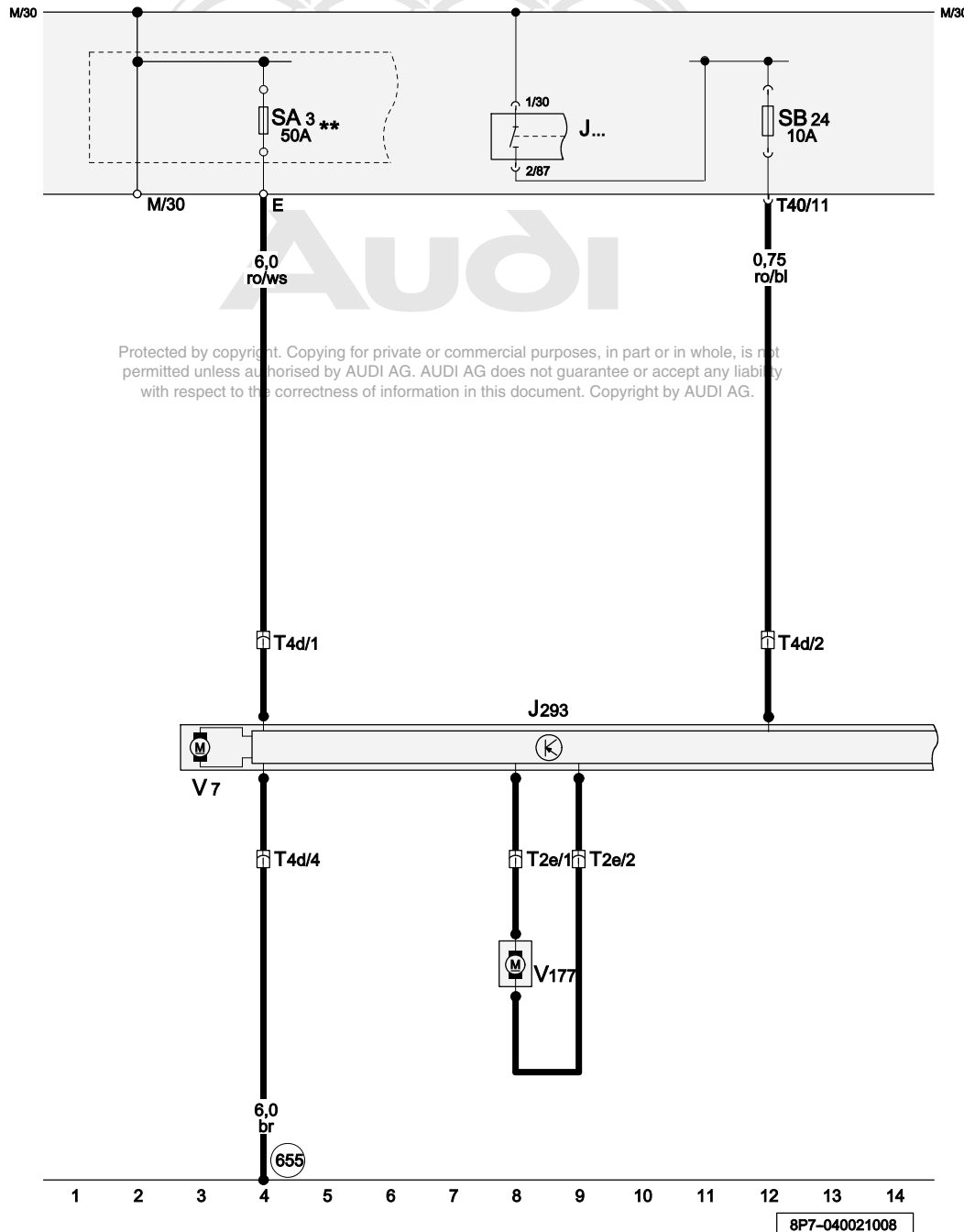
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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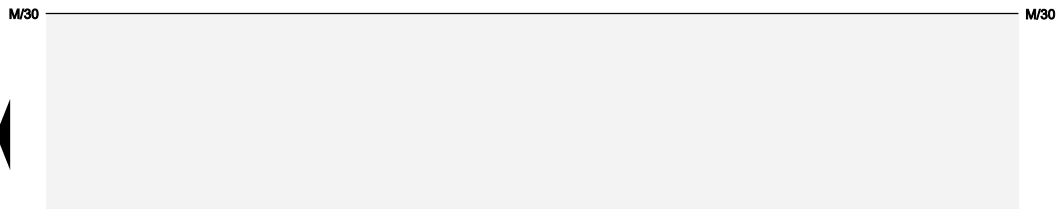
Radiator fan, radiator fan 2

- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- SB24 Fuse 24 on fuse holder B
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V7 Radiator fan
- V177 Radiator fan 2

(655) Earth point, on left headlight

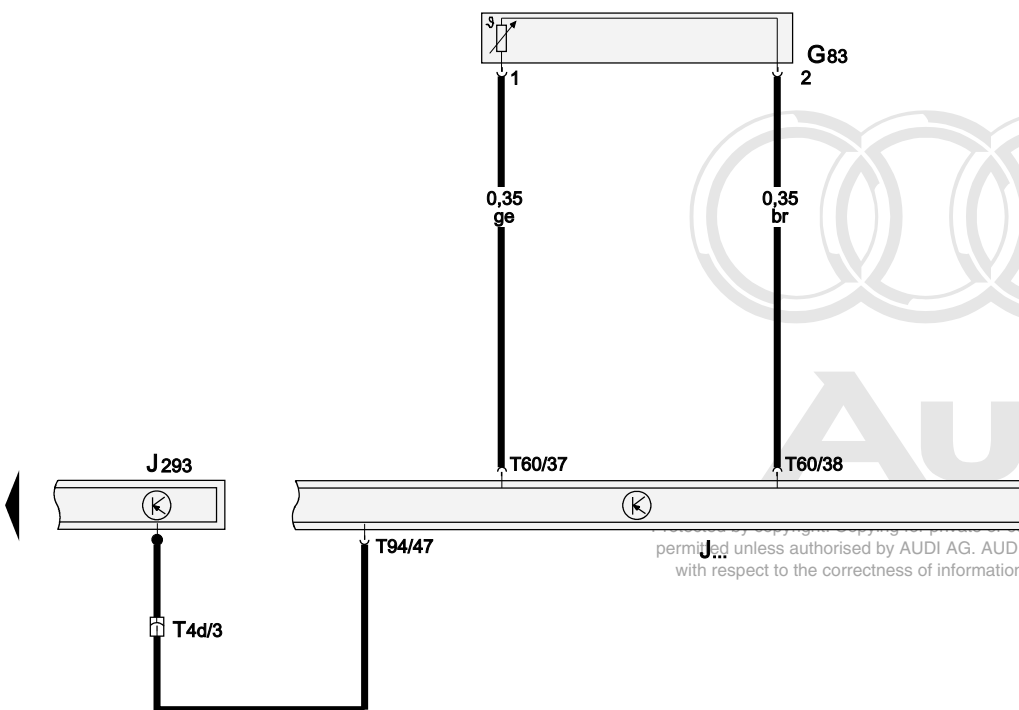
** depends on equipment (8Z4, 8Z5, 8Z7) with automatic gearbox or manual gearbox, engine code BLS

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 li = purple
 ge = yellow
 or = orange
 rs = pink



Radiator outlet coolant temperature sender

- G83 Radiator outlet coolant temperature sender
- J... Engine control units
- J293 Radiator fan control unit
- T4d 4-pin connector, black, on radiator fan (front end)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)



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- or = orange
- rs = pink

15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-040030108



Radiator fan control 340 W

⇒ for models without air conditioning system only

⇒ Engine code BLS

from March 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

◆ Earth connections

⇒ List of Fitting Locations!

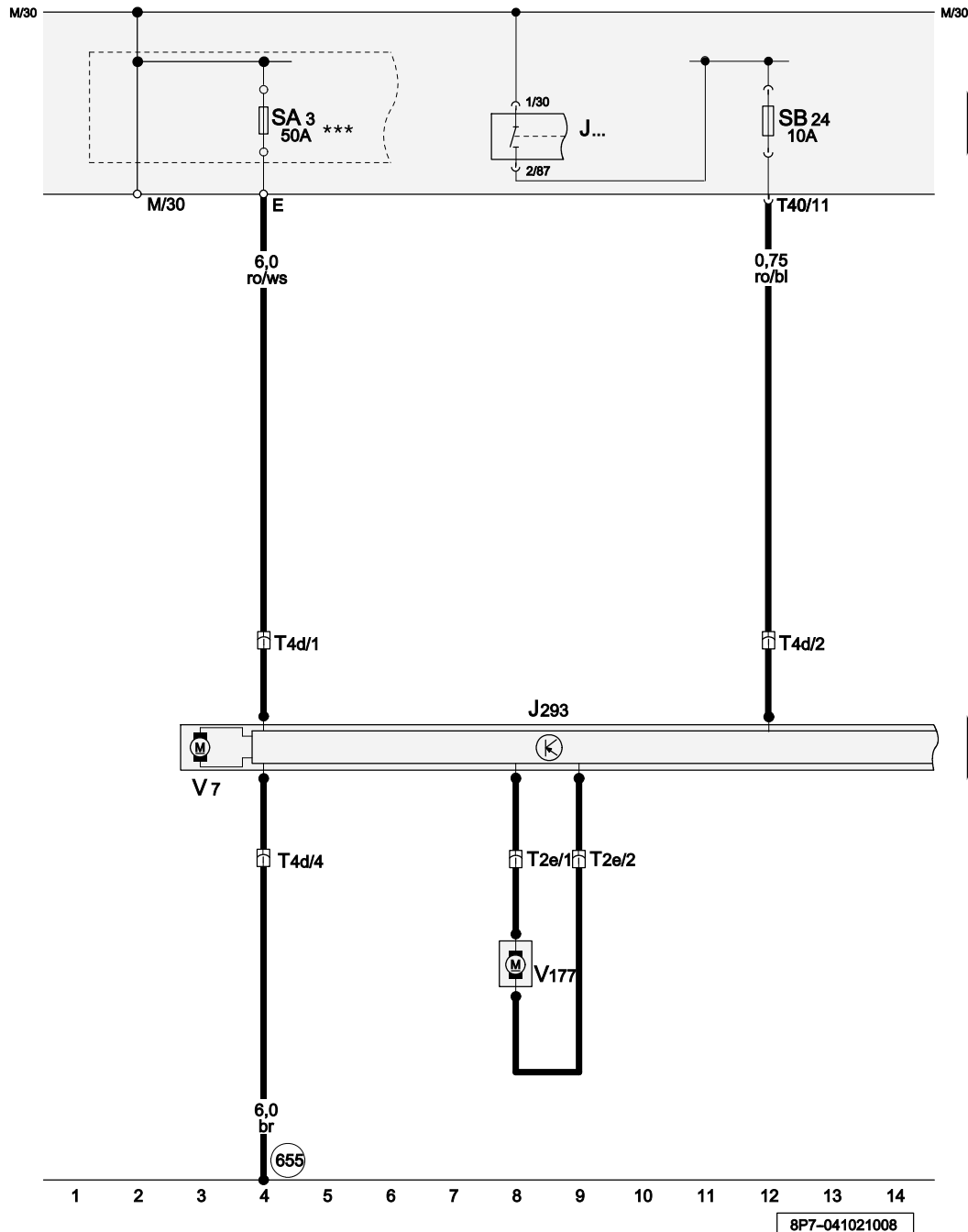
For information concerning

◆ Fault Finding Programs

⇒ guided fault finding



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Radiator fan, radiator fan 2

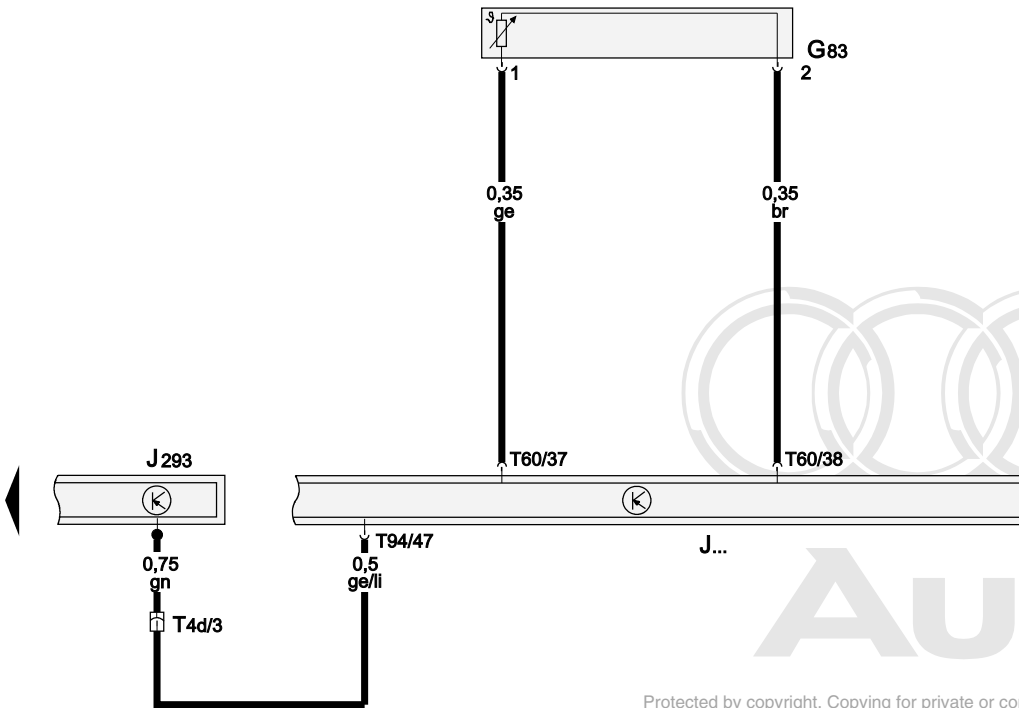
- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- SB24 Fuse 24 on fuse holder B
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V7 Radiator fan
- V177 Radiator fan 2
- (655) Earth point, on left headlight
- *** depends on equipment (8Z4, 8Z5, 8Z6, 8Z7, 8Z9), engine code BLS

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Radiator outlet coolant temperature sender

- G83 Radiator outlet coolant temperature sender
- J... Engine control units
- J293 Radiator fan control unit
- T4d 4-pin connector, black, on radiator fan (front end)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)



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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-041030108



Radiator fan control 340 W

⇒ Engine codes CBAB, CBAA

from March 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

◆ Earth connections

⇒ List of Fitting Locations!

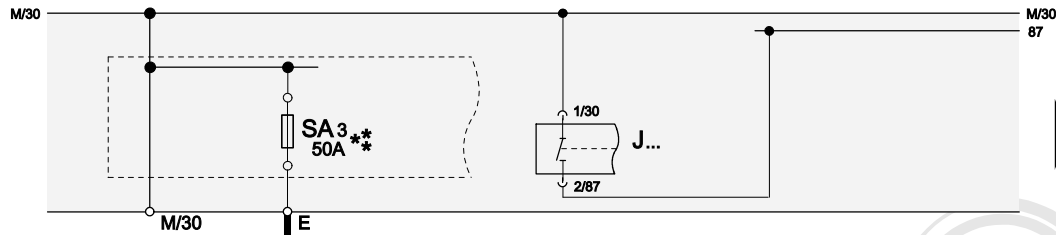
For information concerning

◆ Fault Finding Programs

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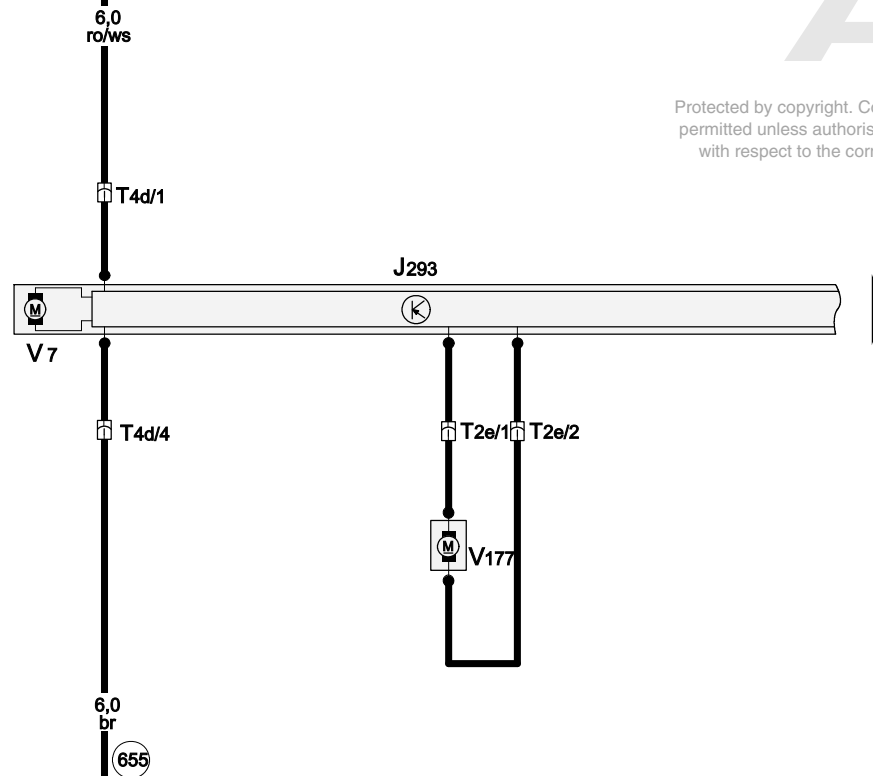
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Radiator fan, radiator fan 2

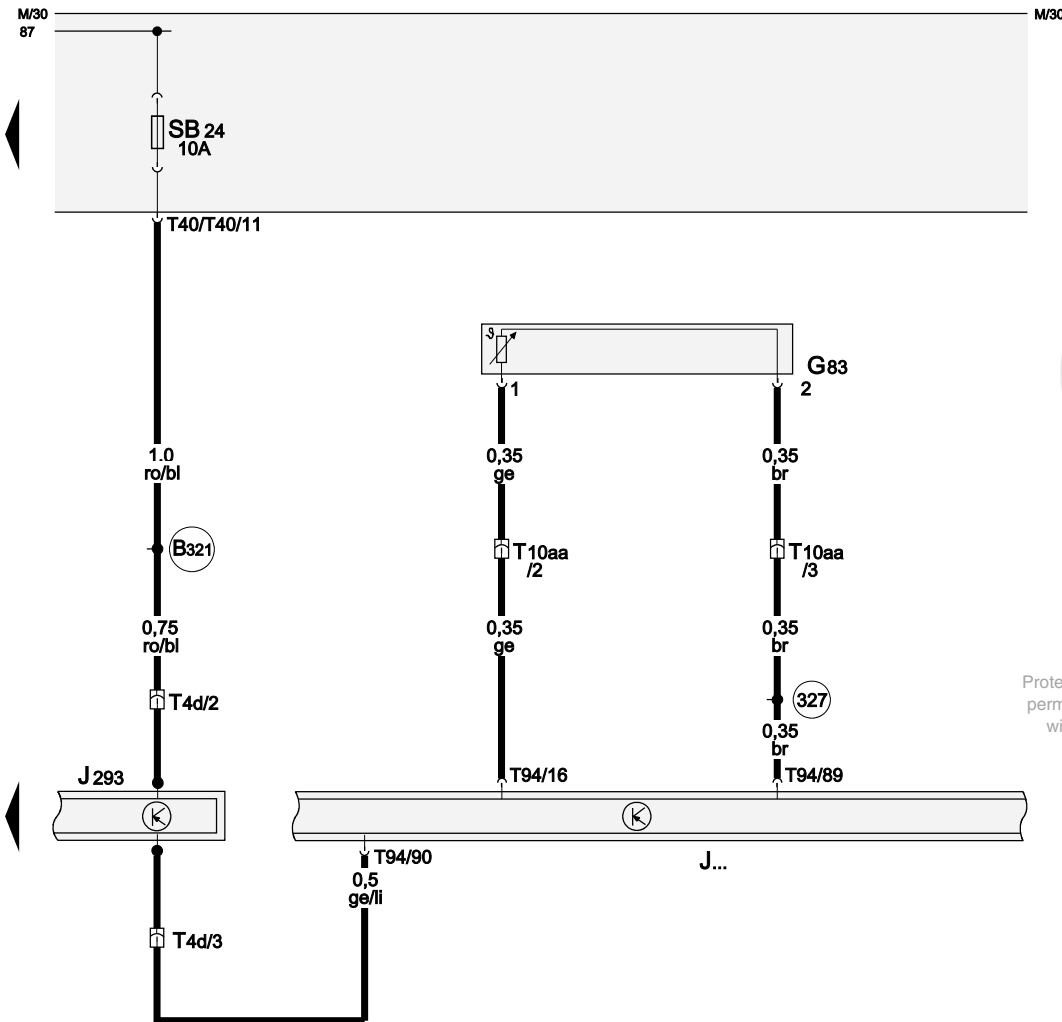
- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- V7 Radiator fan
- V177 Radiator fan 2
- 655 Earth point, on left headlight
- * depends on equipment (8Z4, 8Z5, 8Z6, 8Z7, 8Z9), with heater
- ** depends on equipment (8Z4, 8Z5, 8Z7), with air conditioning system and manual gearbox

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- rs = pink

8P7-042021008



Radiator outlet coolant temperature sender

- G83 Radiator outlet coolant temperature sender
- J... Engine control units
- J293 Radiator fan control unit
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 327 Earth connection (sender earth), in engine compartment wiring harness
- B321 Positive connection 7 (30a), in main wiring harness

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-042030108



Radiator fan control 520 W

⇒ Engine codes CBAB, CBAA

from March 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

◆ Earth connections

⇒ List of Fitting Locations!

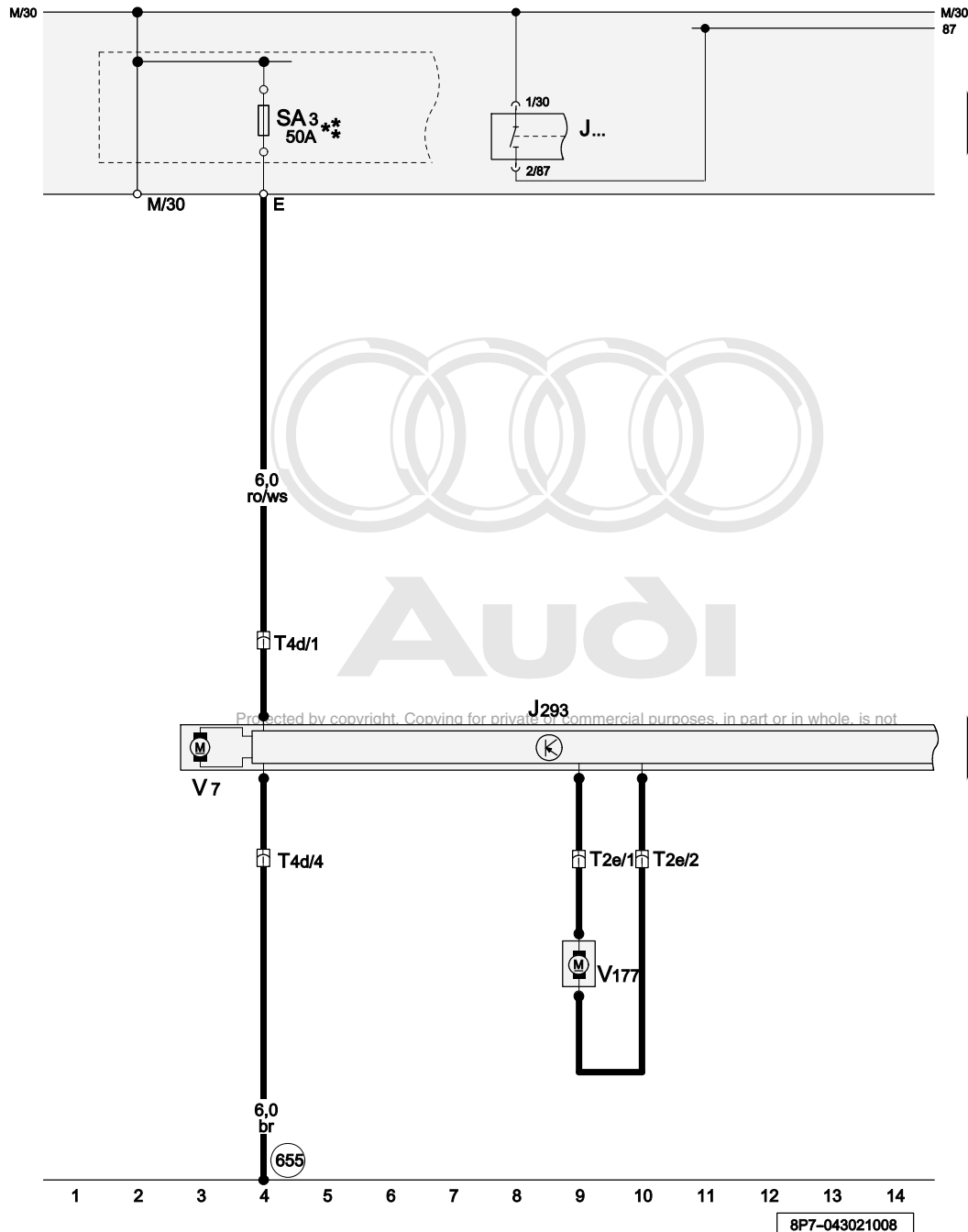
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◆ Fault Finding Programs

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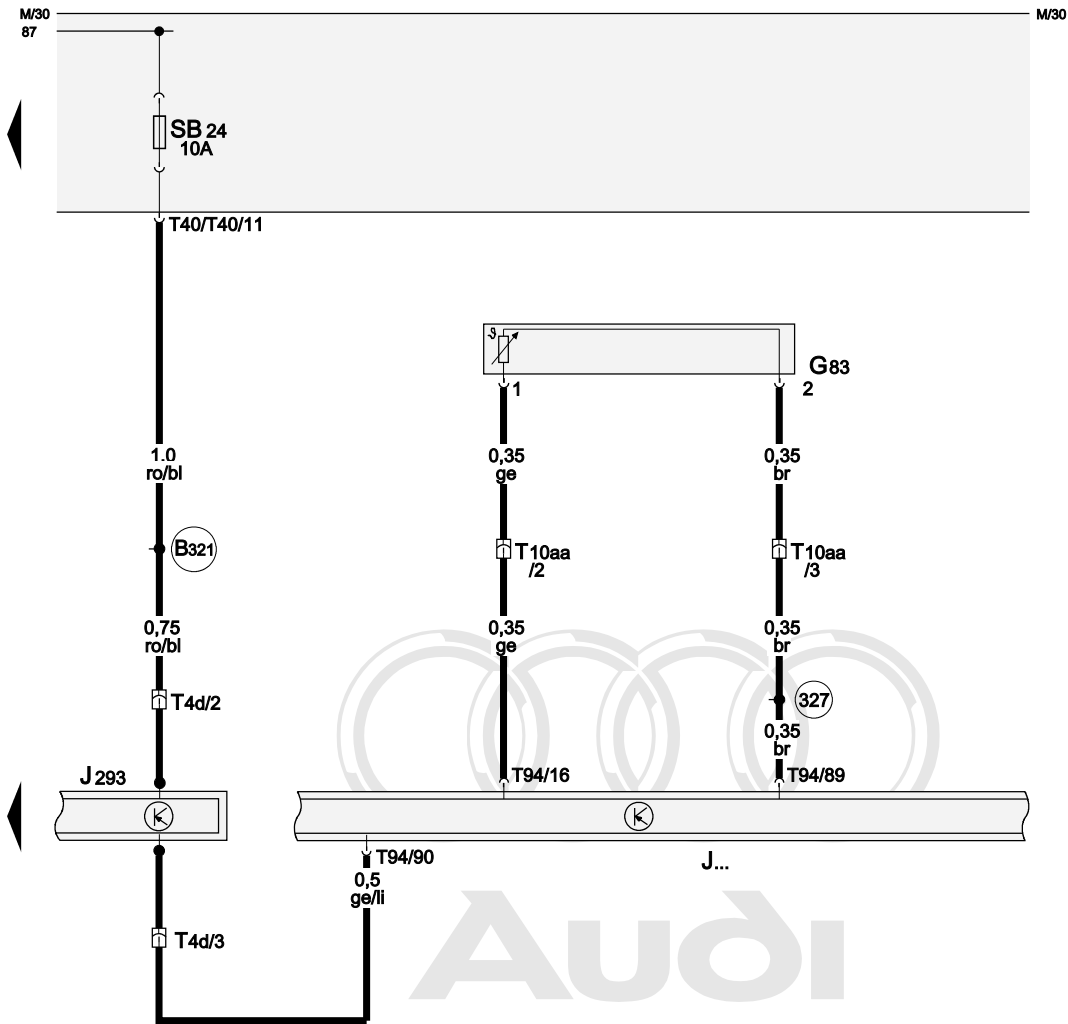


Radiator fan, radiator fan 2

- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- V7 Radiator fan
- V177 Radiator fan 2

655 Earth point, on left headlight

- * depends on equipment (8Z4, 8Z5, 8Z7) with air conditioning system and automatic gearbox or manual gearbox and trailer operation or automatic gearbox and trailer operation
- ** depends on equipment (8Z6, 8Z9), with air conditioning system



Radiator outlet coolant temperature sender

- G83 Radiator outlet coolant temperature sender
- J... Engine control units
- J293 Radiator fan control unit
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- (327) Earth connection (sender earth), in engine compartment wiring harness
- (B321) Positive connection 7 (30a), in main wiring harness

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-043030108

Radiator fan control 520 W

⇒ for petrol engines with and without air conditioning system only

⇒ Engine codes BZB, CAWB

from March 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

◆ Earth connections

⇒ List of Fitting Locations!

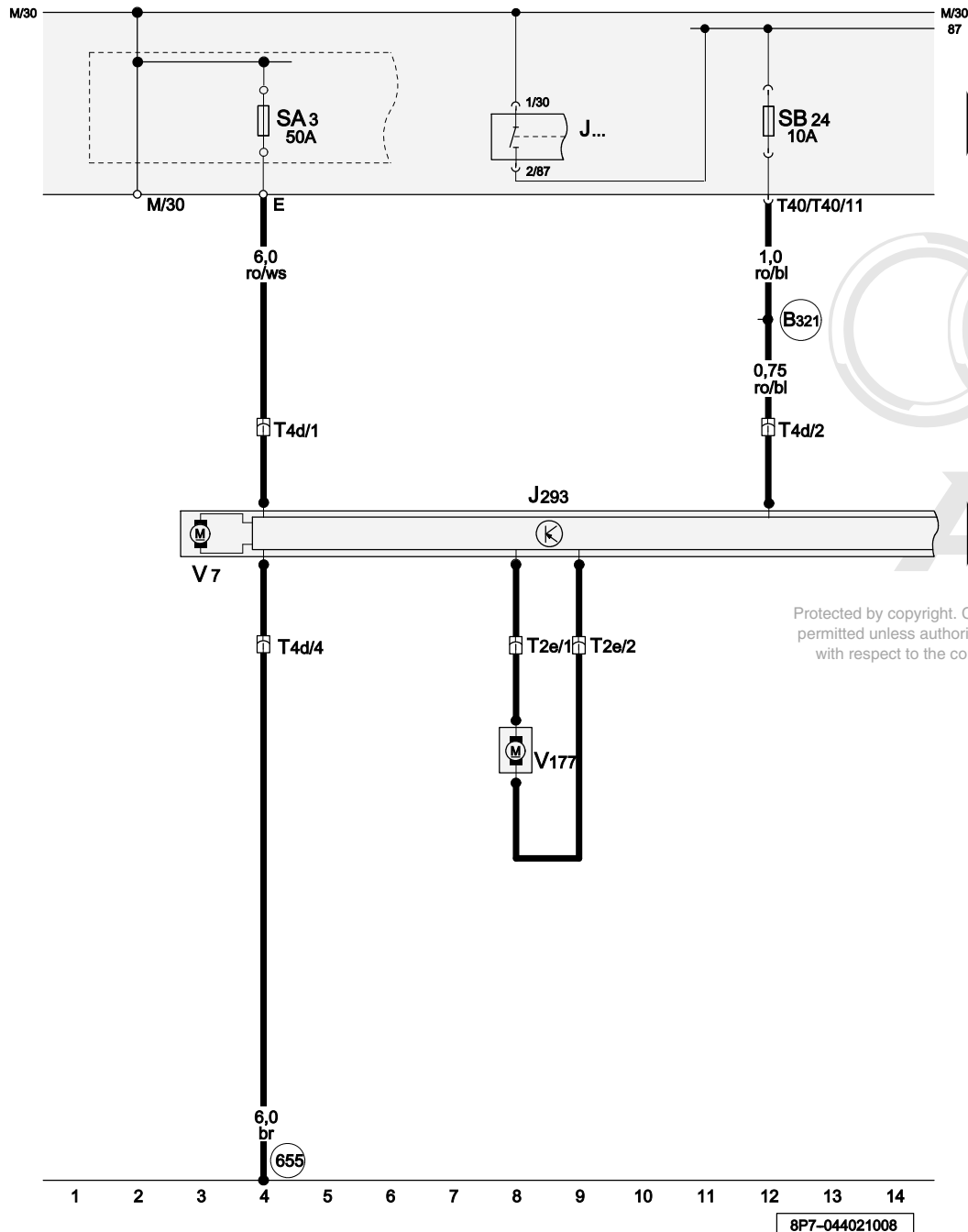
For information concerning

◆ Fault Finding Programs

⇒ guided fault finding



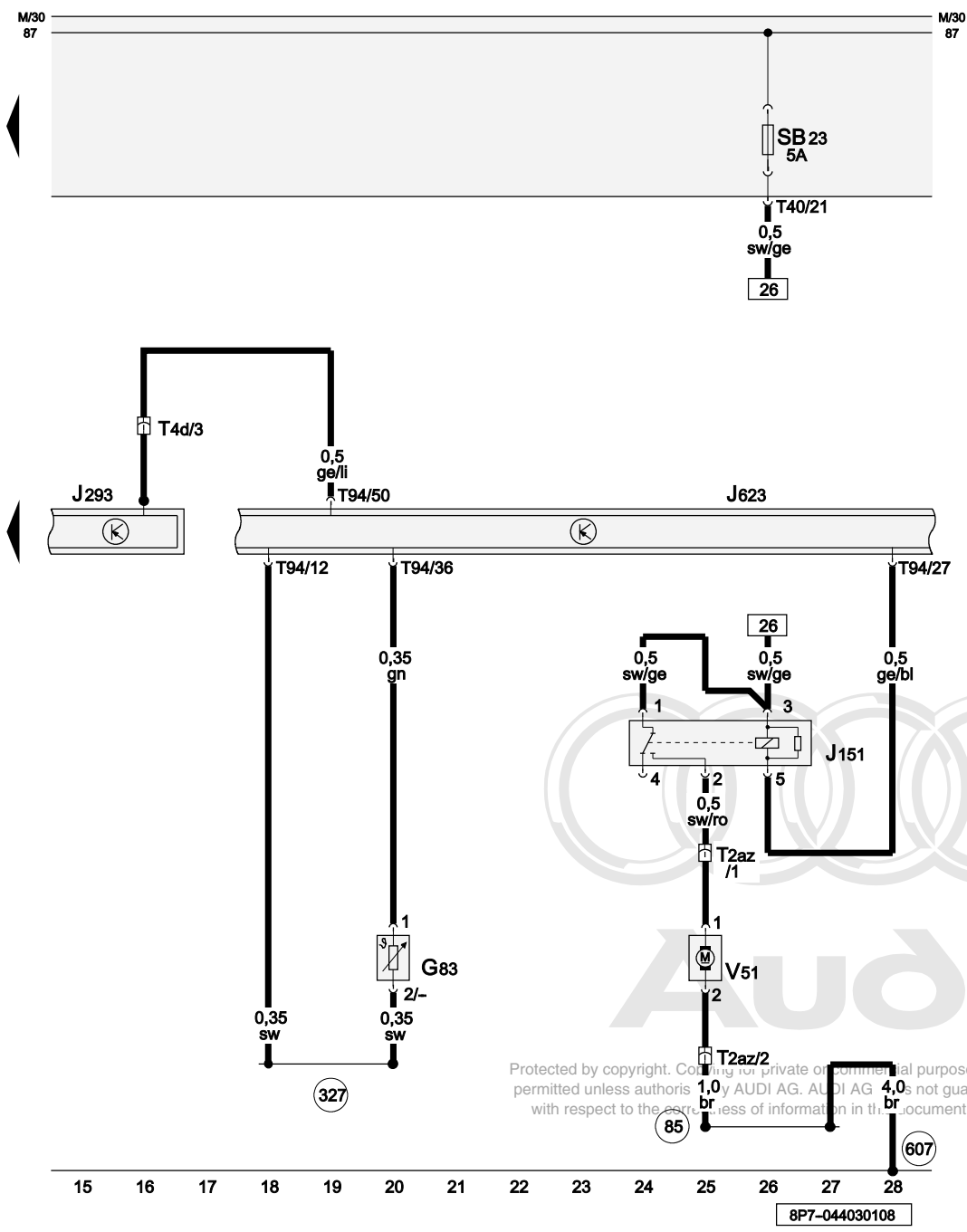
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Radiator fan, radiator fan 2

- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- SB24 Fuse 24 on fuse holder B
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V7 Radiator fan
- V177 Radiator fan 2
- 655 Earth point, on left headlight
- B321 Positive connection 7 (30a), in main wiring harness

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Radiator outlet coolant temperature sender, continued coolant circulation pump

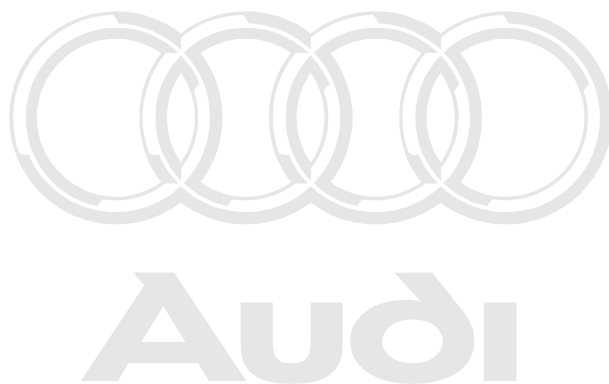
- | | |
|------|---|
| G83 | Radiator outlet coolant temperature sender |
| J151 | Continued coolant circulation relay |
| J293 | Radiator fan control unit |
| J623 | Engine control unit |
| SB23 | Fuse 23 on fuse holder B |
| T2az | 2-pin connector |
| T4d | 4-pin connector, black, on radiator fan (front end) |
| T40 | 40-pin connector, black, on electronics box in engine compartment (connector J) |
| T94 | 94-pin connector, black (connector B) |
| V51 | Continued coolant circulation pump |

- | | |
|-----|---|
| 85 | Earth connection 1, in engine compartment wiring harness |
| 327 | Earth connection (sender earth), in engine compartment wiring harness |
| 607 | Earth point, on left in plenum chamber |

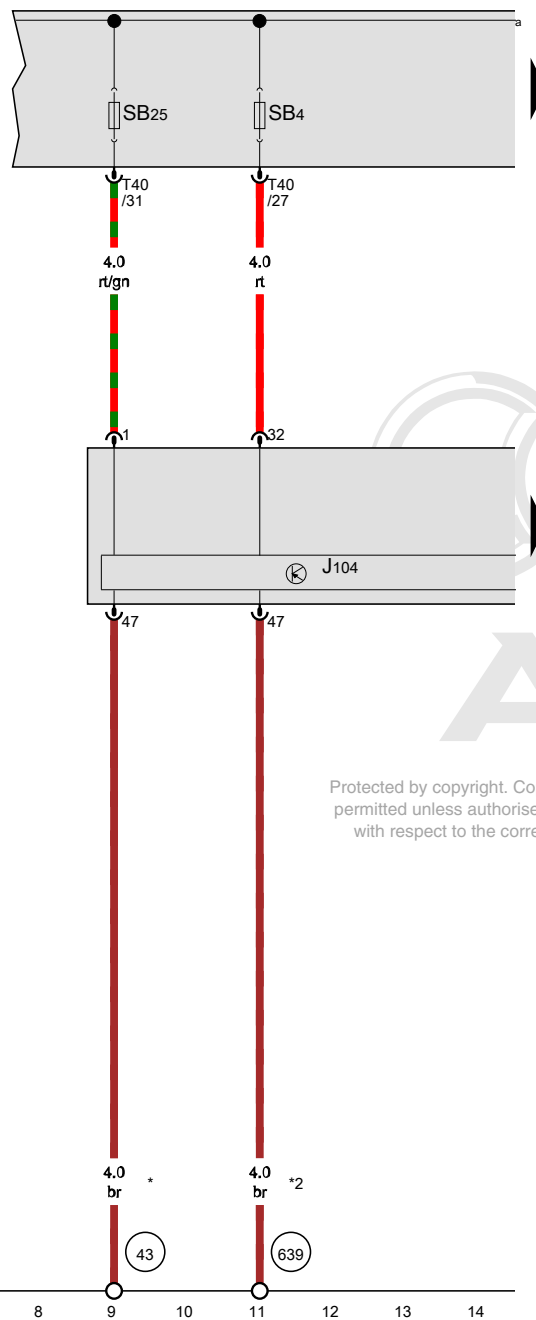
ws	=	white
sw	=	black
ro	=	red
br	=	brown
gn	=	green
bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink

Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and hydraulic brake servo (HBS)

From May 2008



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ABS control unit

J104 ABS control unit

SB4 Fuse 4 on fuse holder B

SB25 Fuse 25 on fuse holder B

T40 40-pin connector

43 Earth point, lower part of right A-pillar

639 Earth point, left A-pillar

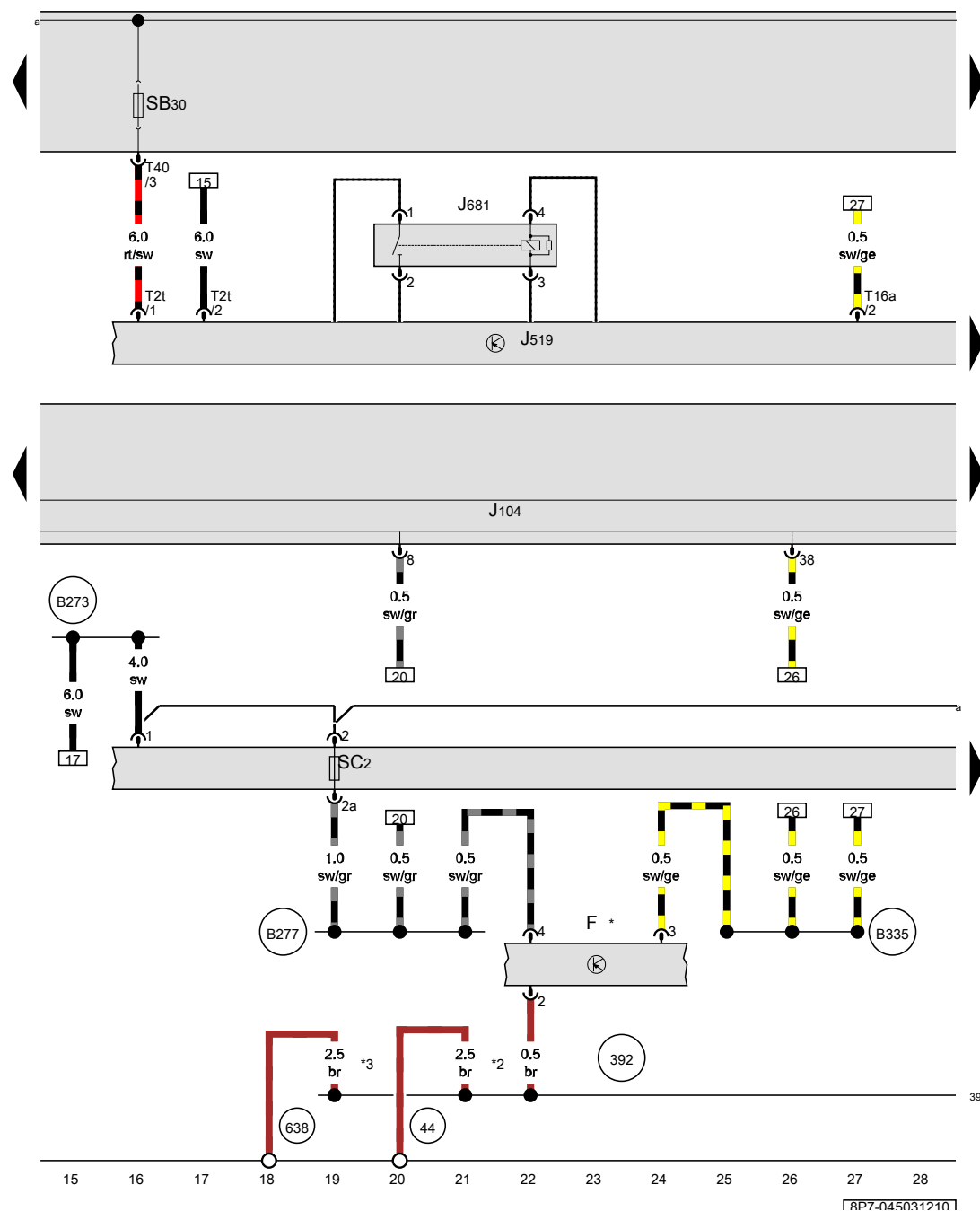
* Only left-hand drive models

*2 Only right-hand drive models

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18P7-0450212101



Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

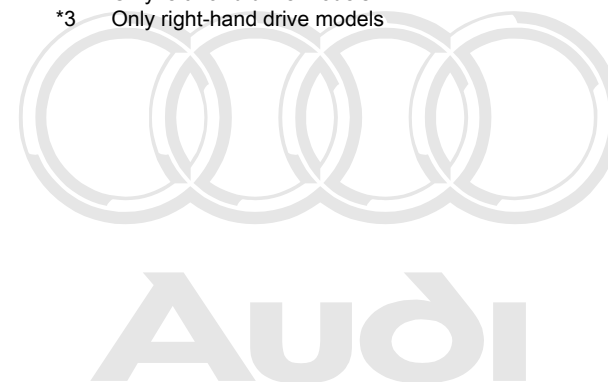
- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16a 16-pin connector
- T40 40-pin connector

- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

* see applicable current flow diagram for engine

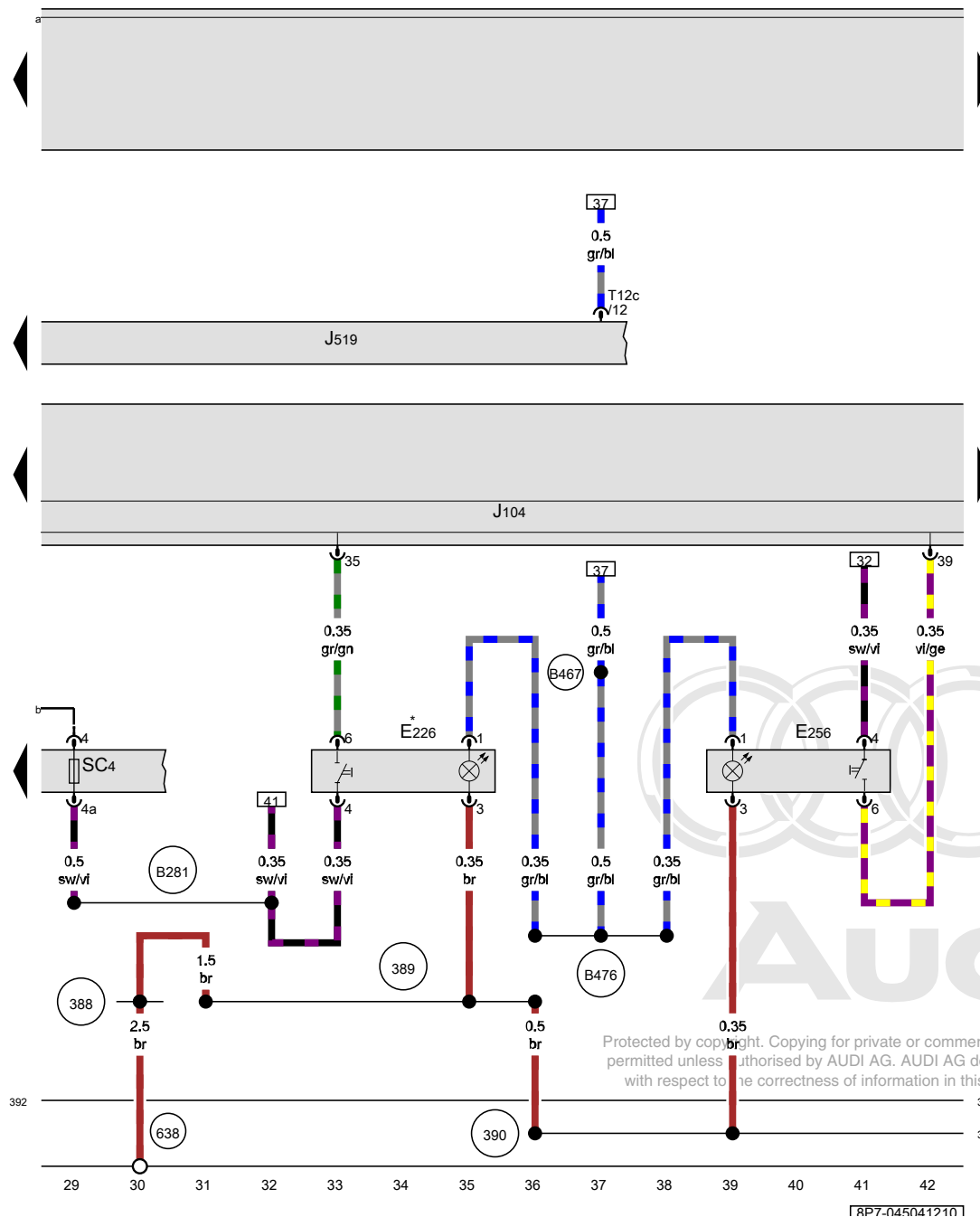
*2 Only left-hand drive models

*3 Only right-hand drive models



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Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

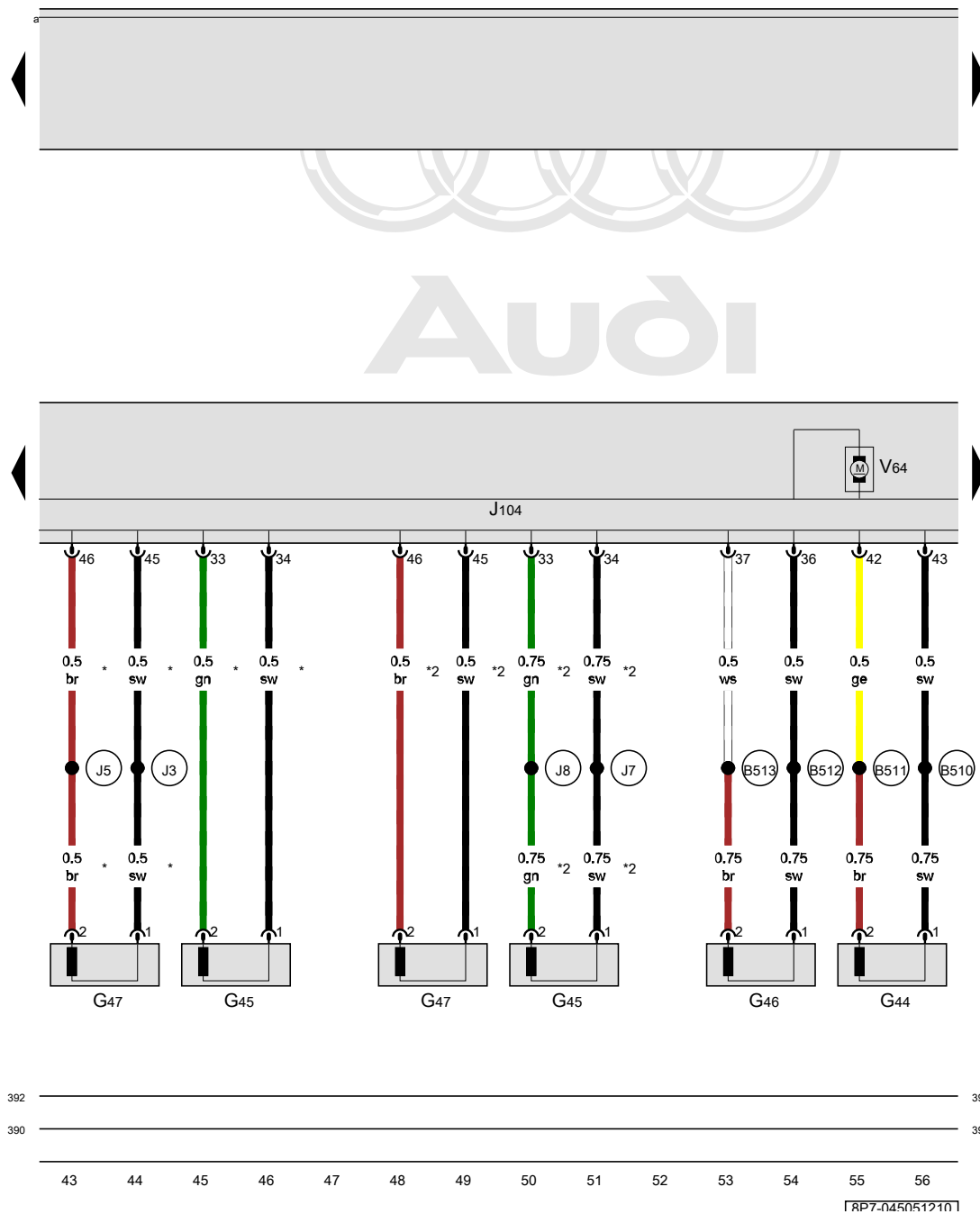
- E226 Tyre pressure monitor button
- E256 TCS and ESP button
- J104 ABS control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T12c 12-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

* If fitted

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18P7-0450412101



Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit
- V64 ABS hydraulic pump

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B510 Connection 1 (rear right speed sensor), in interior wiring harness
- B511 Connection 2 (rear right speed sensor), in interior wiring harness
- B512 Connection 1 (rear left speed sensor), in interior wiring harness
- B513 Connection 2 (rear left speed sensor), in interior wiring harness
- J3 Connection 1, in ABS wiring harness
- J5 Connection 2, in ABS wiring harness
- J7 Connection 3, in ABS wiring harness
- J8 Connection 4, in ABS wiring harness
- * Only left-hand drive models
- *2 Only right-hand drive models

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gr = grey
li = purple
ge = yellow
or = orange
rs = pink

Vacuum sender, ABS control unit, ABS hydraulic unit

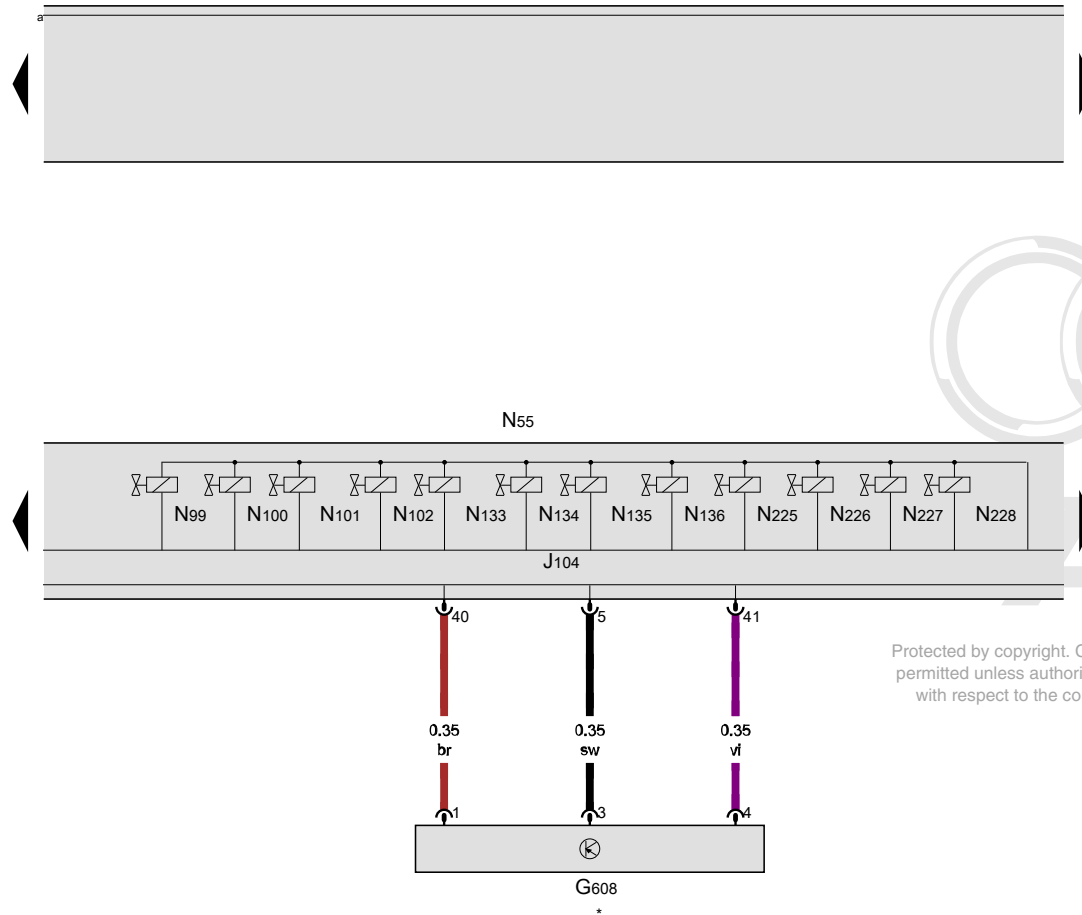
- G608 Vacuum sender
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

* According to equipment

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392	57	58	59	60	61	62	63	64	65	66	67	68	69	70	392
390															390

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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
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Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

- G201 Brake pressure sender 1
- J104 ABS control unit
- J431 Headlight range control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

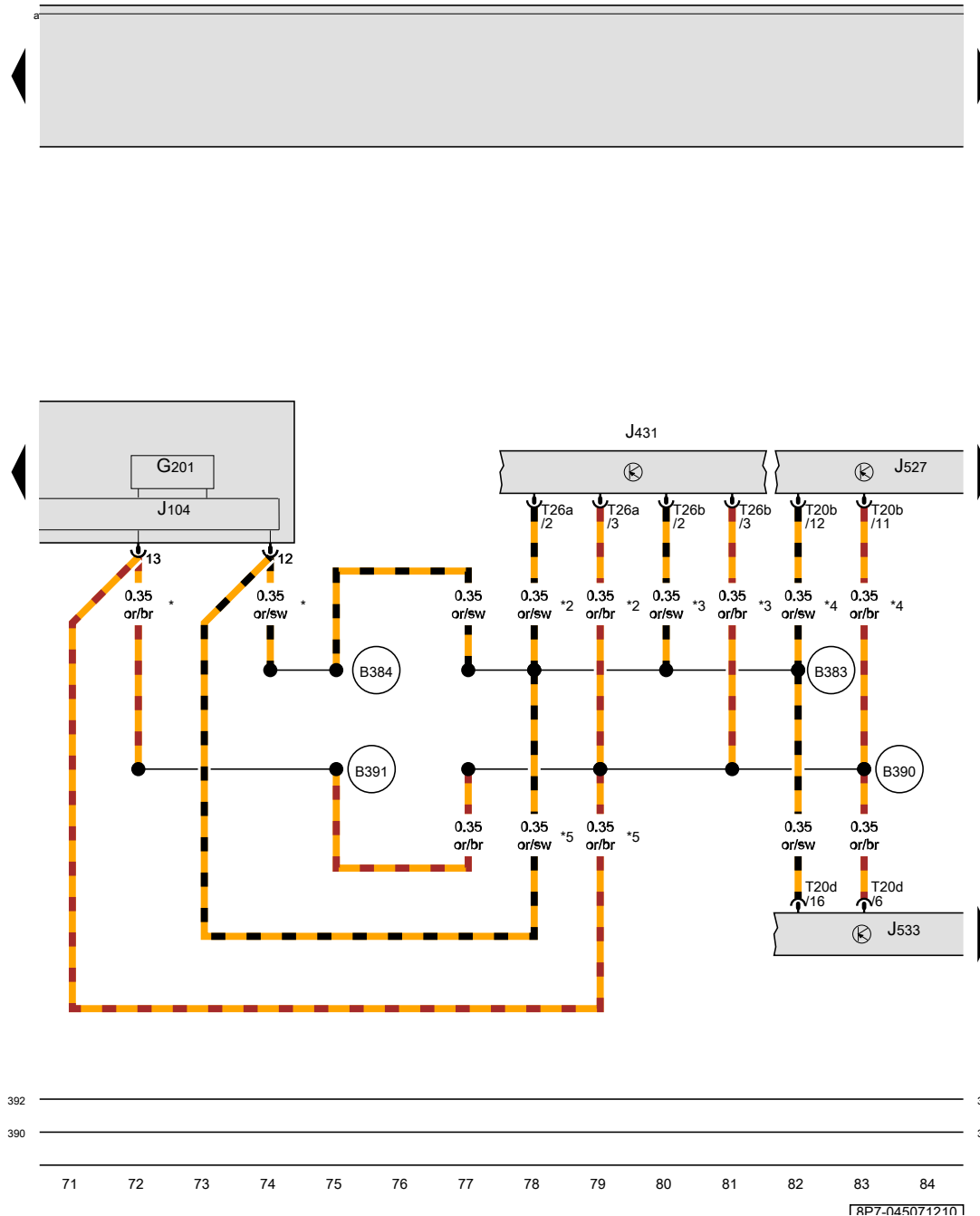
B384 Connection 2 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

- * Only left-hand drive models
- *2 According to equipment
- *3 Only models with dynamic cornering light
- *4 If fitted
- *5 Only right-hand drive models

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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
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- or = orange
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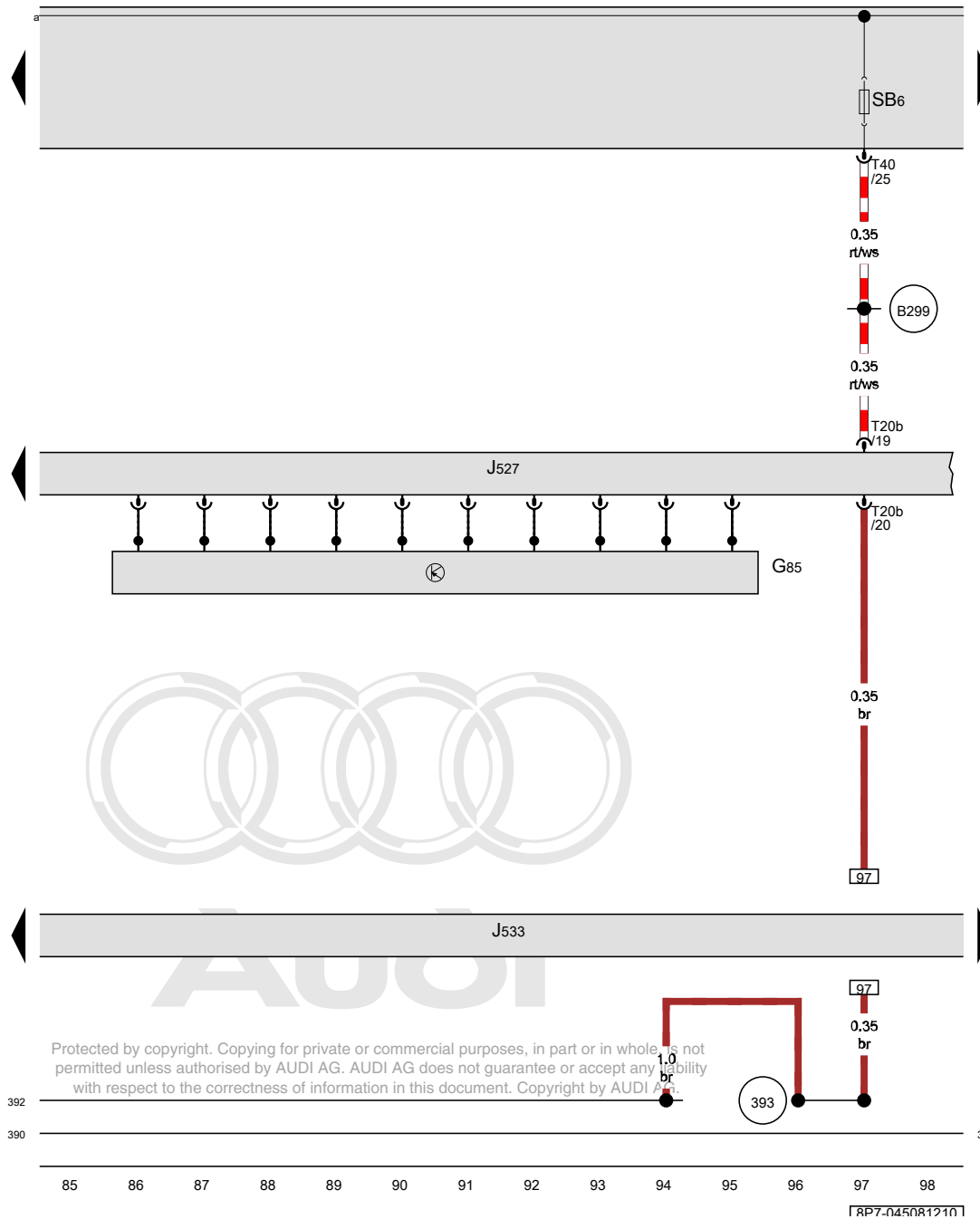
18P7-0450712101



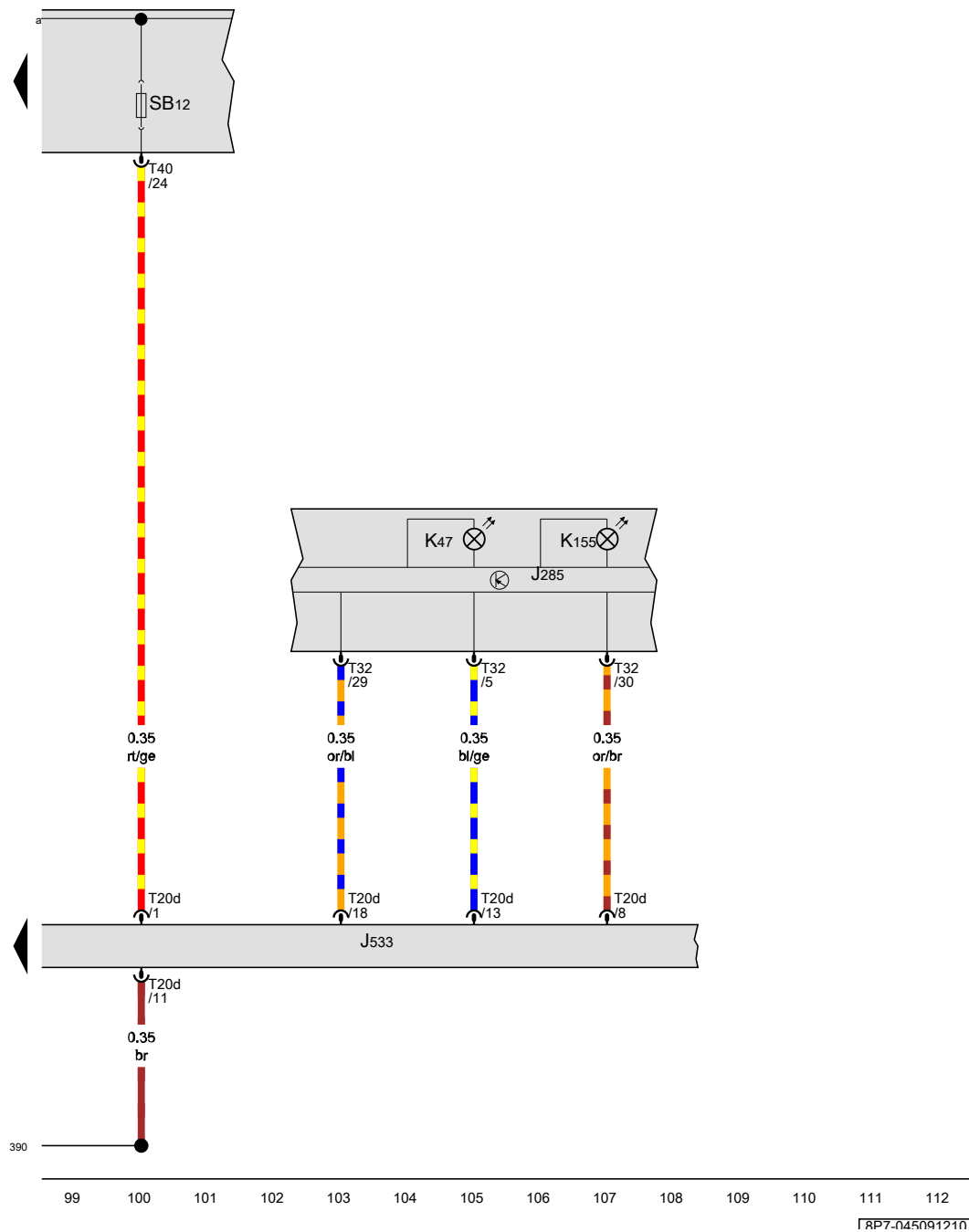
Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

- G85 Steering angle sender
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B299 Positive connection 3 (30), in main wiring harness



- 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, Data bus diagnostic interface, ABS warning lamp, ESP and TCS warning lamp

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K47 ABS warning lamp
- K155 ESP and TCS warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

390 Earth connection 25, in main wiring harness

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- or = orange
- rs = pink

Anti-lock brake system (ABS) with traction control system (TCS)

From May 2008



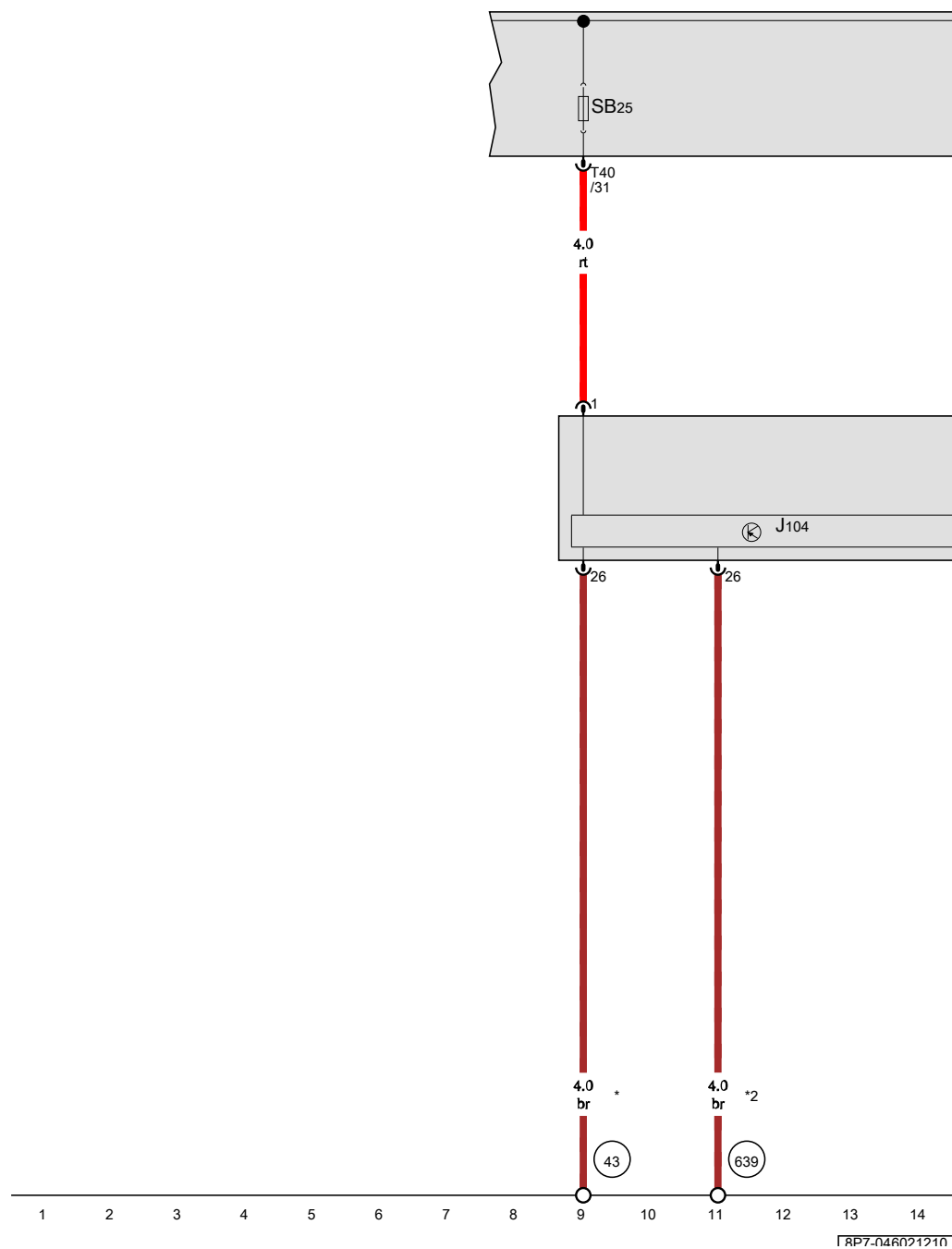
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ABS control unit

- J104 ABS control unit
- SB25 Fuse 25 on fuse holder B
- T40 40-pin connector
- 43 Earth point, lower part of right A-pillar
- 639 Earth point, left A-pillar
- * Only left-hand drive models
- *2 Only right-hand drive models



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Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

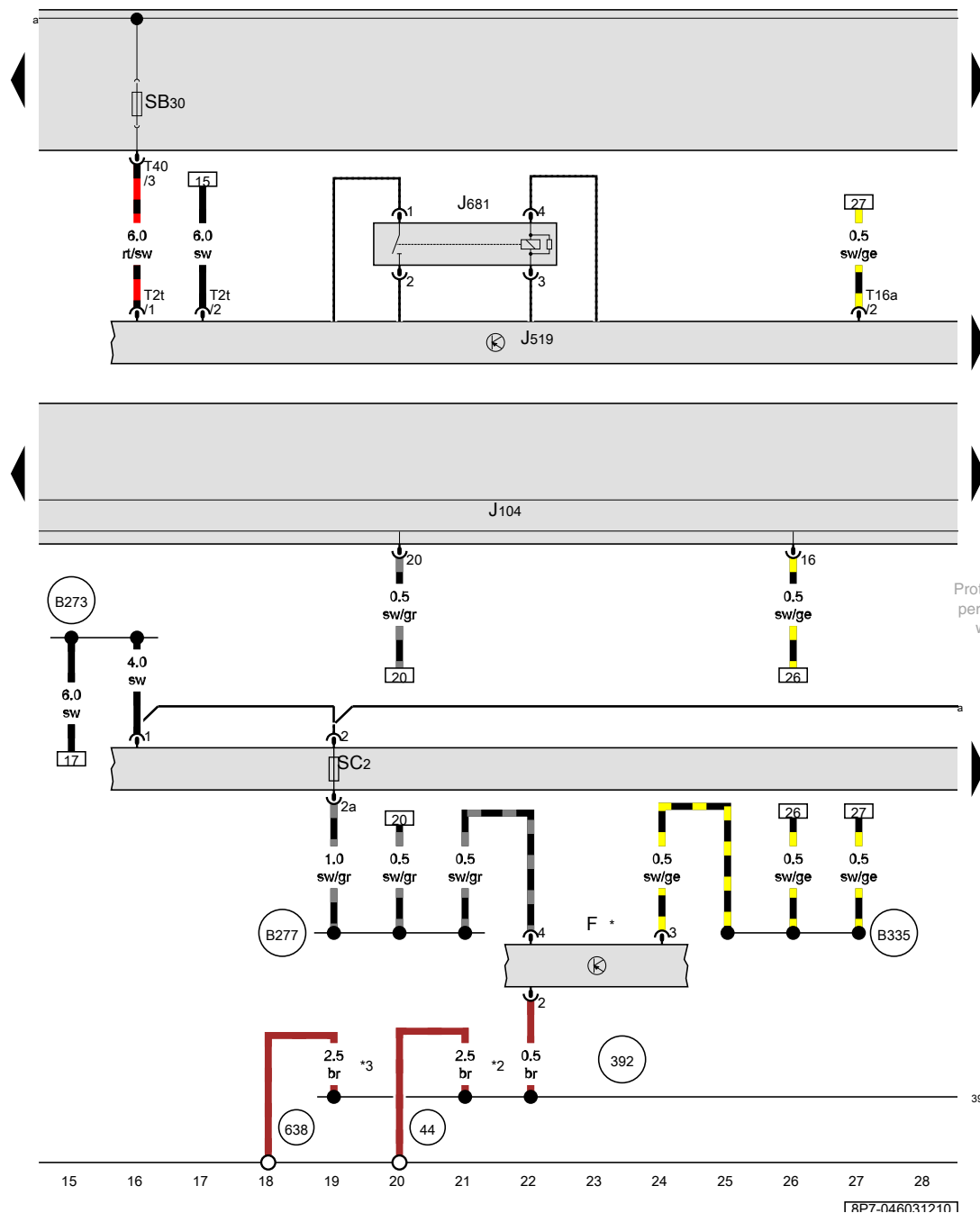
- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T2t 2-pin connector
- T16a 16-pin connector
- T40 40-pin connector

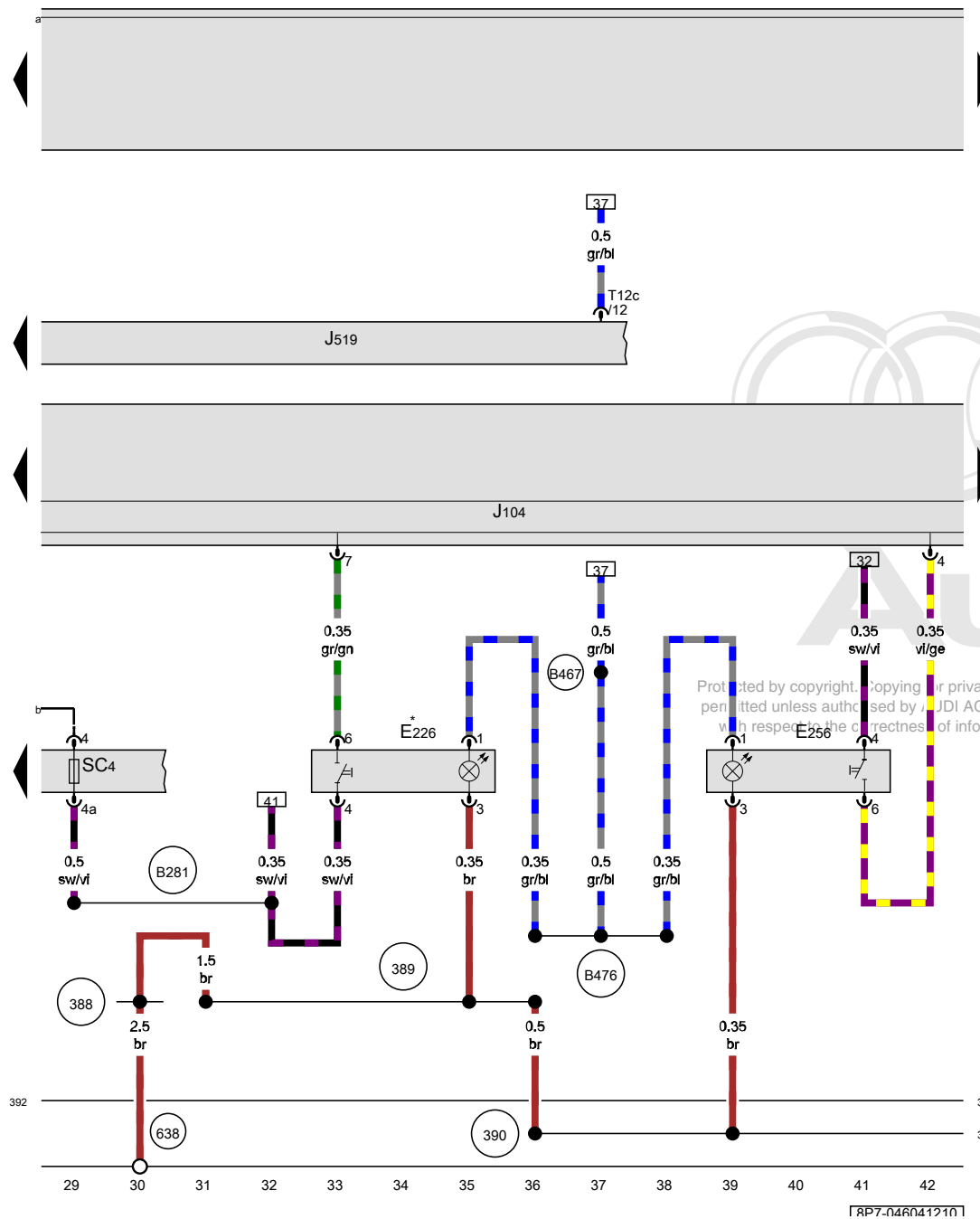
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

- * see applicable current flow diagram for engine
- *2 Only left-hand drive models
- *3 Only right-hand drive models

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- or = orange
- rs = pink





Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

- E226 Tyre pressure monitor button
- E256 TCS and ESP button
- J104 ABS control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T12c 12-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

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If fitted

18P7-0460412101

Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit
- V64 ABS hydraulic pump

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B510 Connection 1 (rear right speed sensor), in interior wiring harness

B511 Connection 2 (rear right speed sensor), in interior wiring harness

B512 Connection 1 (rear left speed sensor), in interior wiring harness

B513 Connection 2 (rear left speed sensor), in interior wiring harness

J3 Connection 1, in ABS wiring harness

J5 Connection 2, in ABS wiring harness

J7 Connection 3, in ABS wiring harness

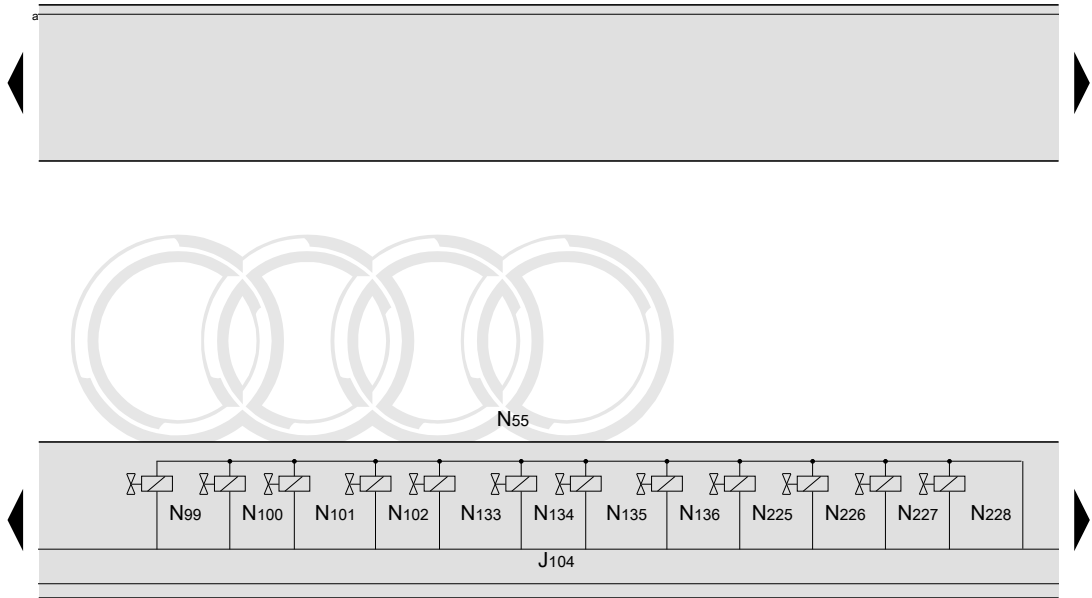
J8 Connection 4, in ABS wiring harness

* Only left-hand drive models

*2 Only right-hand drive models

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br = brown
gn = green
bl = blue
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ABS control unit, ABS hydraulic unit

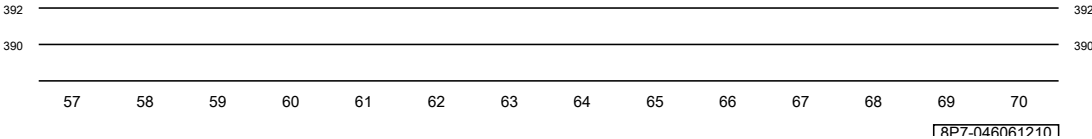
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

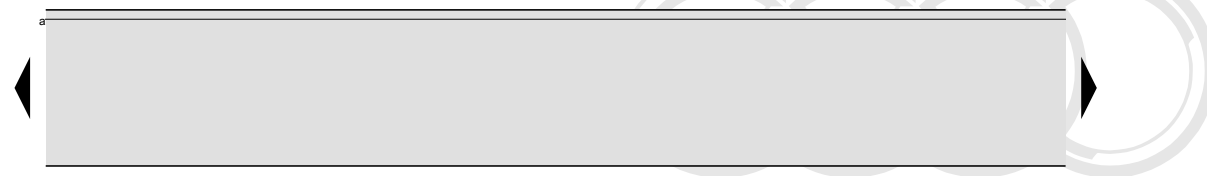
390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

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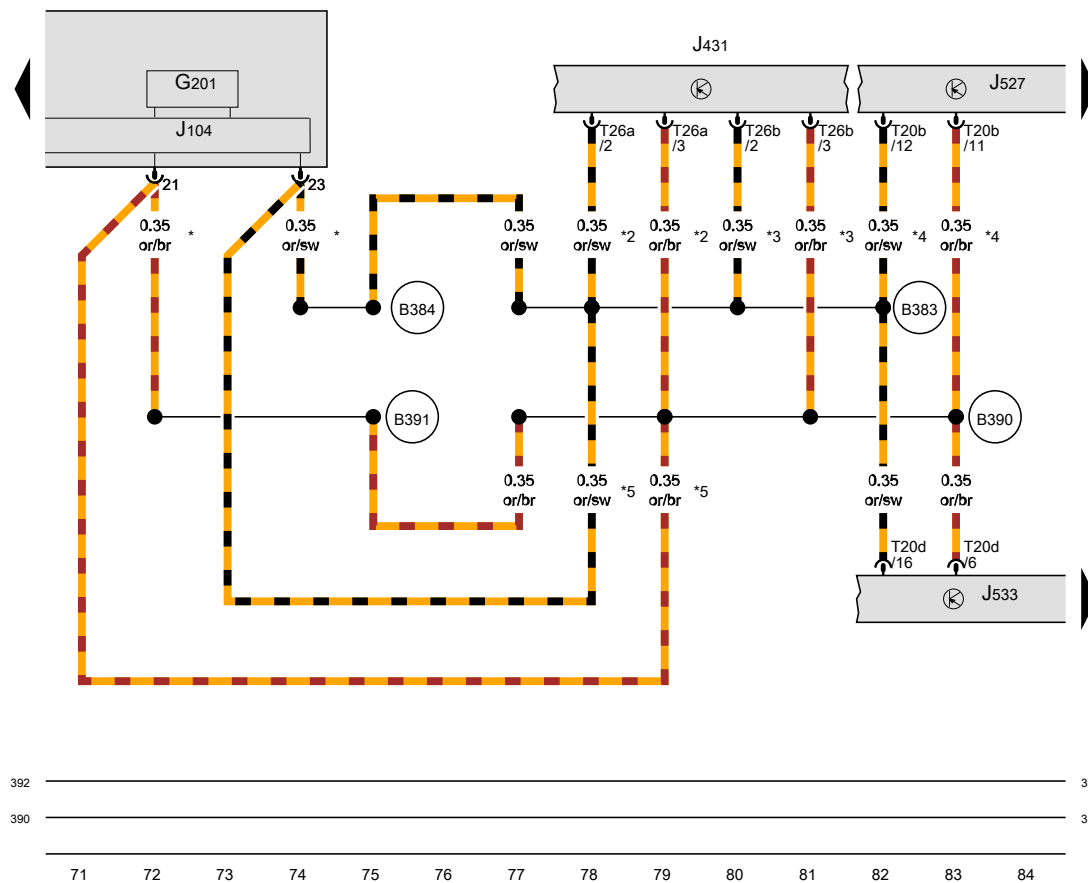
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Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

- G201 Brake pressure sender 1
- J104 ABS control unit
- J431 Headlight range control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

- * Only left-hand drive models
- *2 According to equipment
- *3 Only models with dynamic cornering light
- *4 If fitted
- *5 Only right-hand drive models

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 br = brown
 gn = green
 bl = blue
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18P7-0460712101

Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

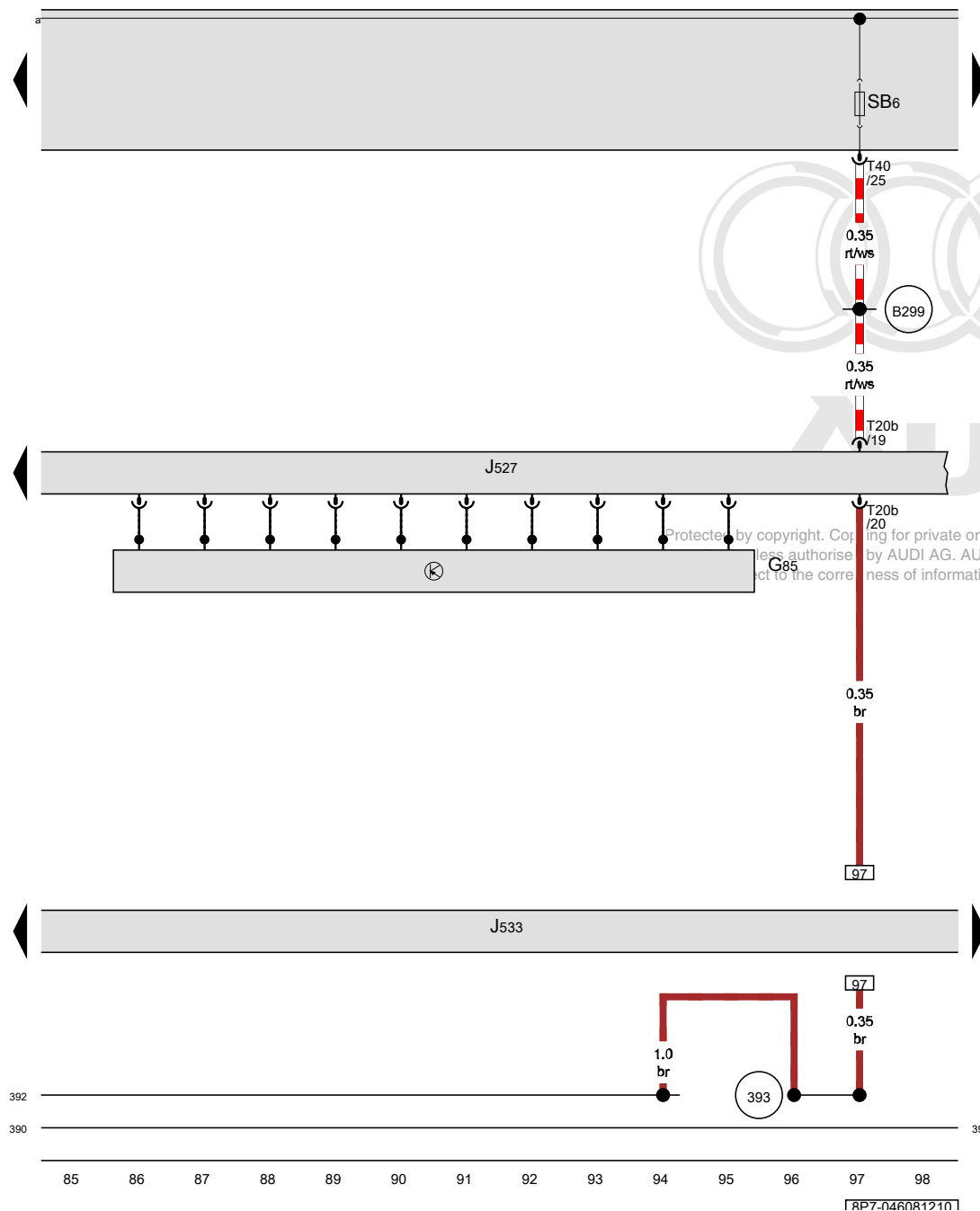
G85	Steering angle sender
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
SB6	Fuse 6 on fuse holder B
T20b	20-pin connector
T40	40-pin connector

390 Earth connection 25, in main wiring harness

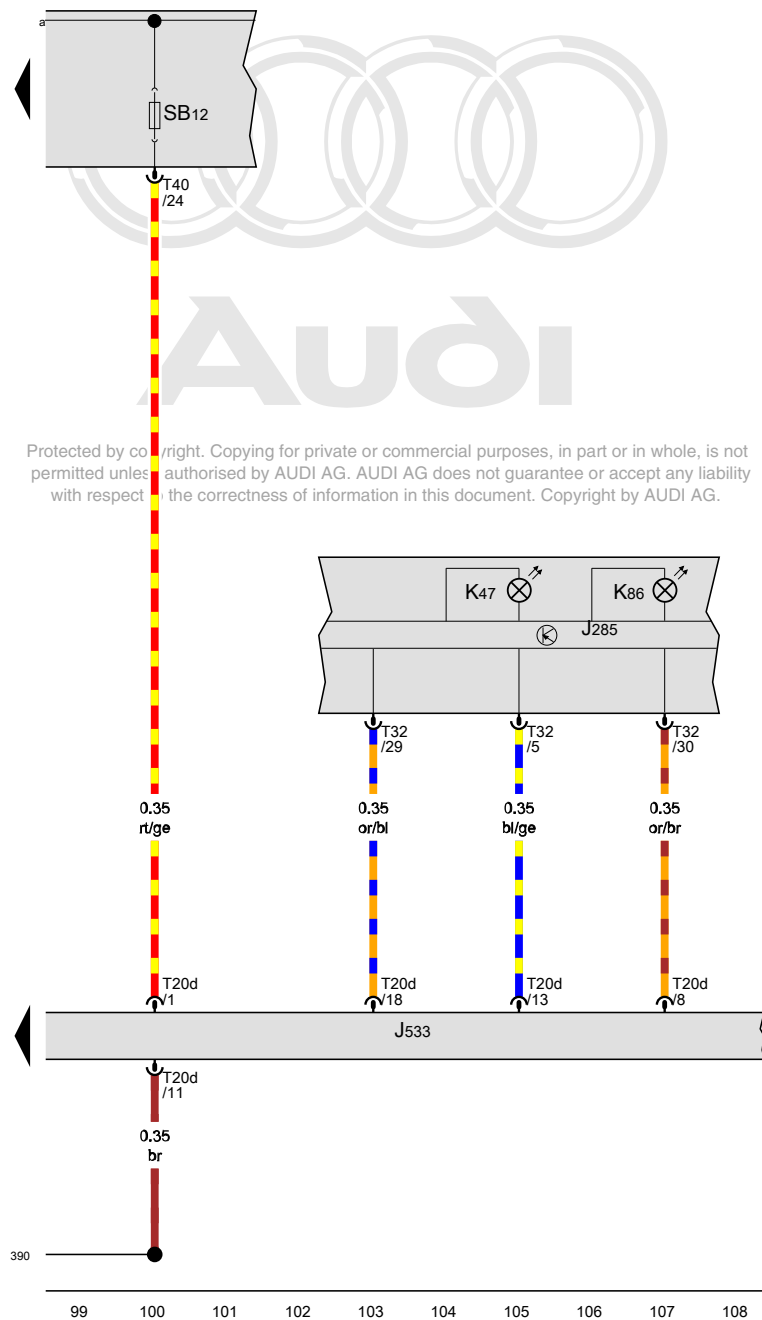
(392) Earth connection 27, in main wiring harness

(393) Earth connection 28, in main wiring harness

(B299) Positive connection 3 (30), in main wiring harness



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gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink



Control unit in dash panel insert, Data bus diagnostic interface, ABS warning lamp, Traction control system warning lamp

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K47 ABS warning lamp
- K86 Traction control system warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector
- 390 Earth connection 25, in main wiring harness

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 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink



Tyre pressure monitor

from May 2008

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

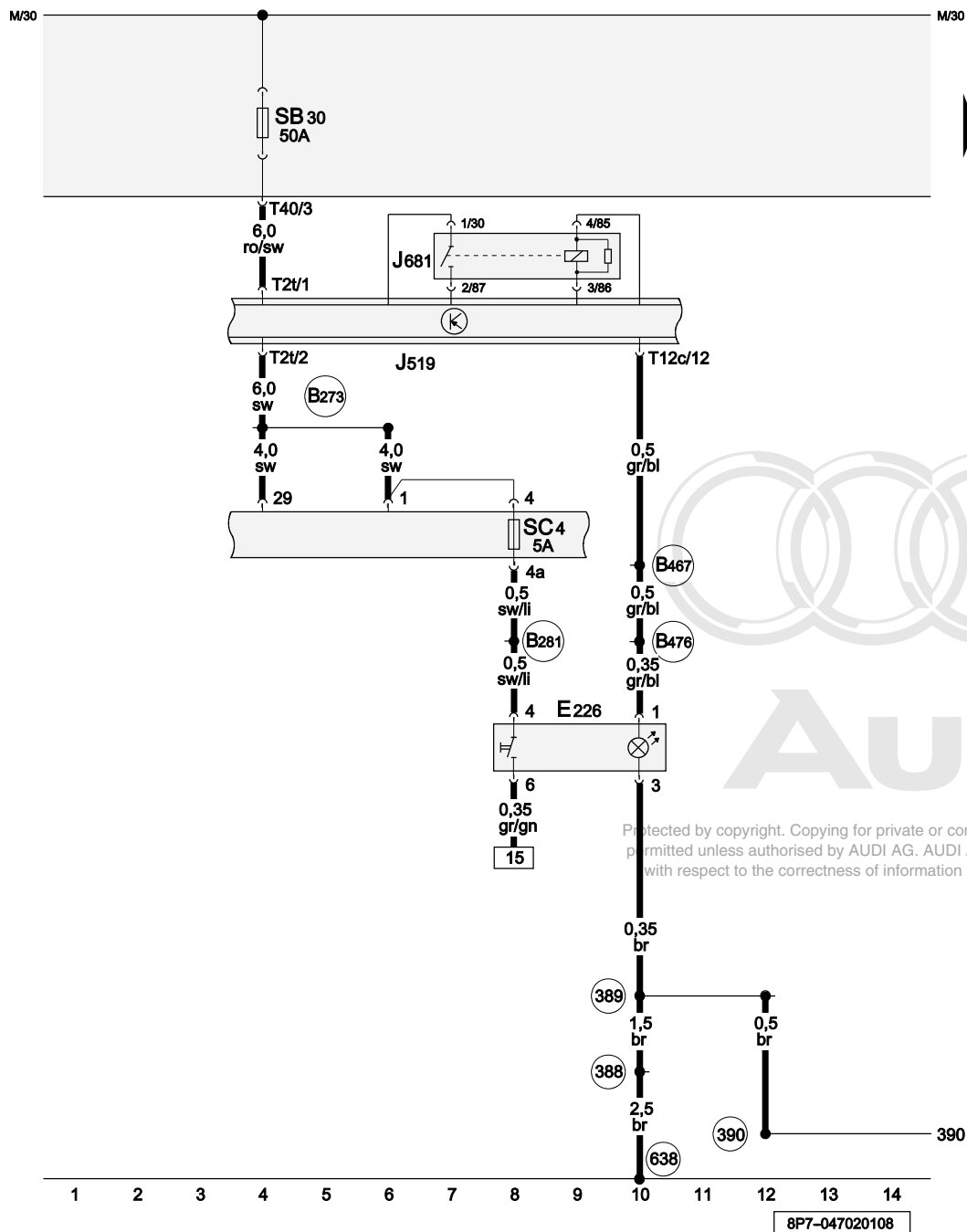
- ◆ Fault Finding Programs

⇒ guided fault finding



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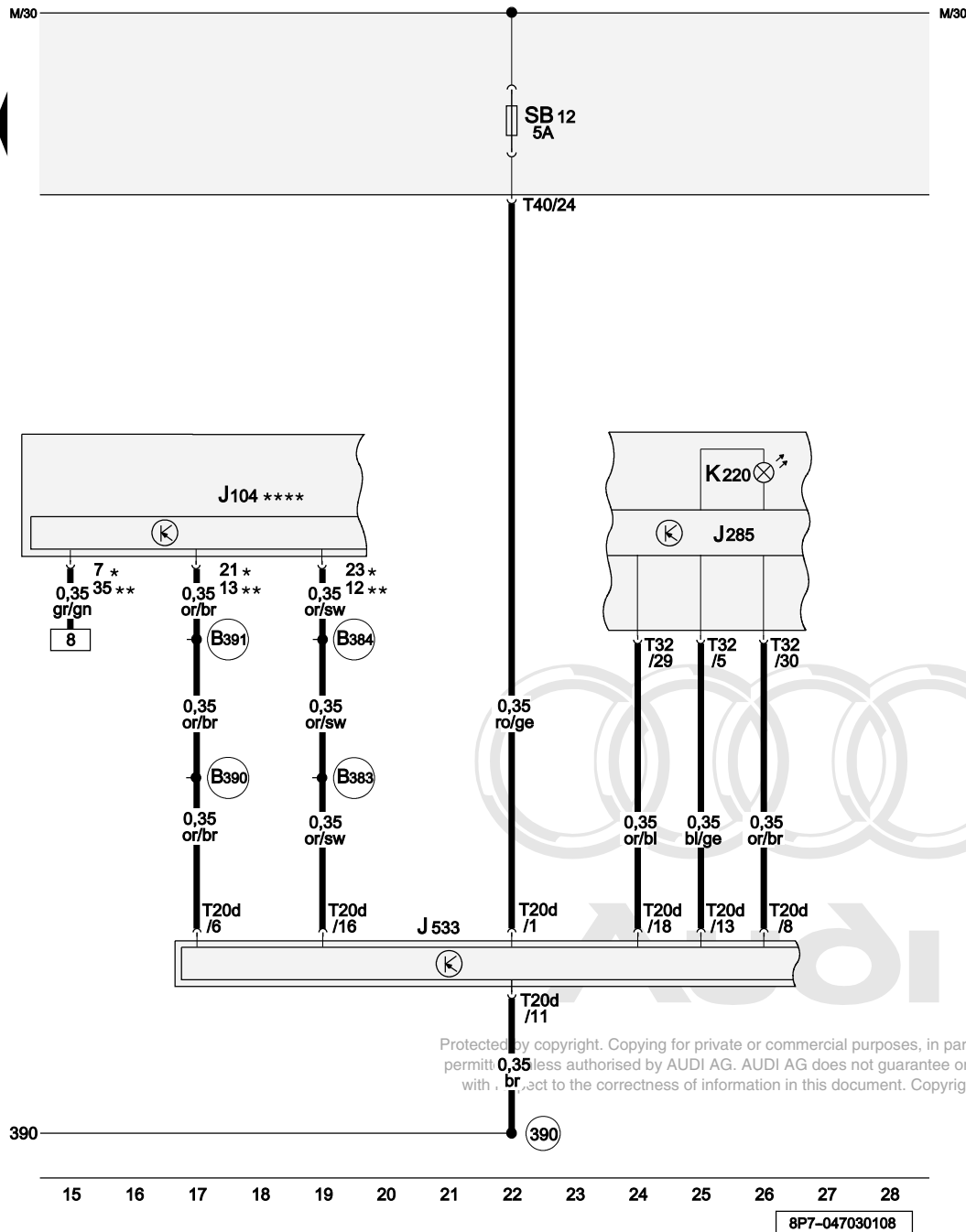
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Tyre pressure monitor button

- E226 Tyre pressure monitor button
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T12c 12-pin connector, black (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- (388) Earth connection 23, in main wiring harness
- (389) Earth connection 24, in main wiring harness
- (390) Earth connection 25, in main wiring harness
- (638) Earth point, right A-pillar
- (B273) Positive connection (15), in main wiring harness
- (B281) Positive connection 5 (15a), in main wiring harness
- (B467) Connection 3 in main wiring harness
- (B476) Connection 12 in main wiring harness



Control unit in dash panel insert, tyre pressure monitor warning lamp

- J104 ABS control unit
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K220 Tyre pressure monitor warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness

- * for models with anti-lock brake system (ABS) MK70 only
- ** for models with anti-lock brake system (ABS) MK60 only
- **** ⇒ applicable Current Flow Diagram: anti-lock brake system (ABS)

- ws = white
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- li = purple
- ge = yellow
- or = orange
- rs = pink



Convenience system

from May 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

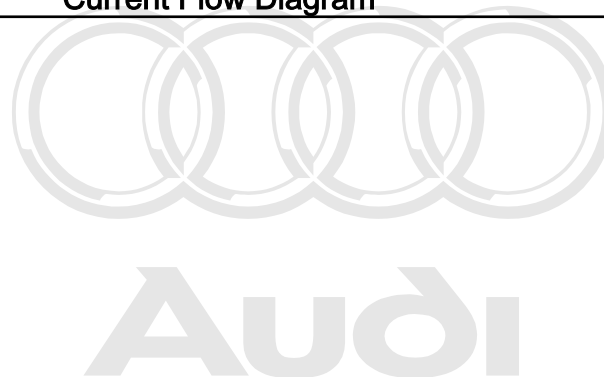
- ◆ Earth connections

⇒ List of Fitting Locations!

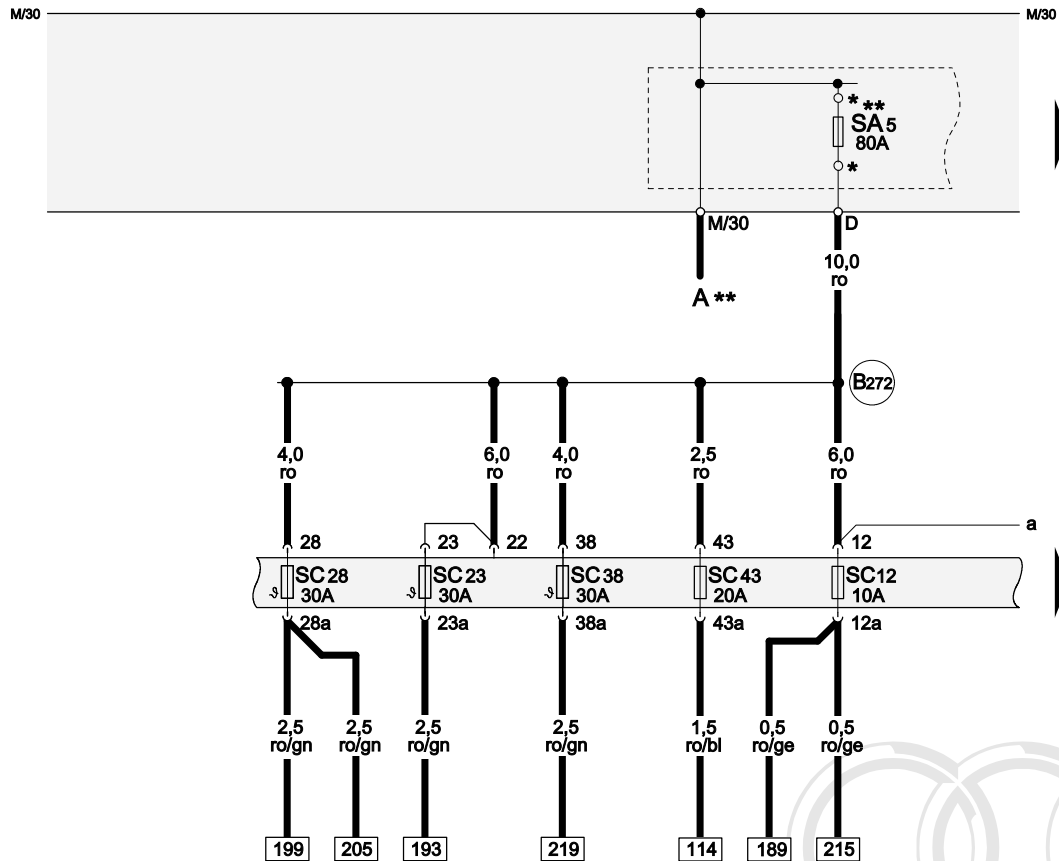
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder

A	Battery
SA5	Fuse 5 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC28	Fuse 28 on fuse holder C
SC38	Fuse 38 on fuse holder C
SC43	Fuse 43 on fuse holder C

(B272) Positive connection (30), in main wiring harness

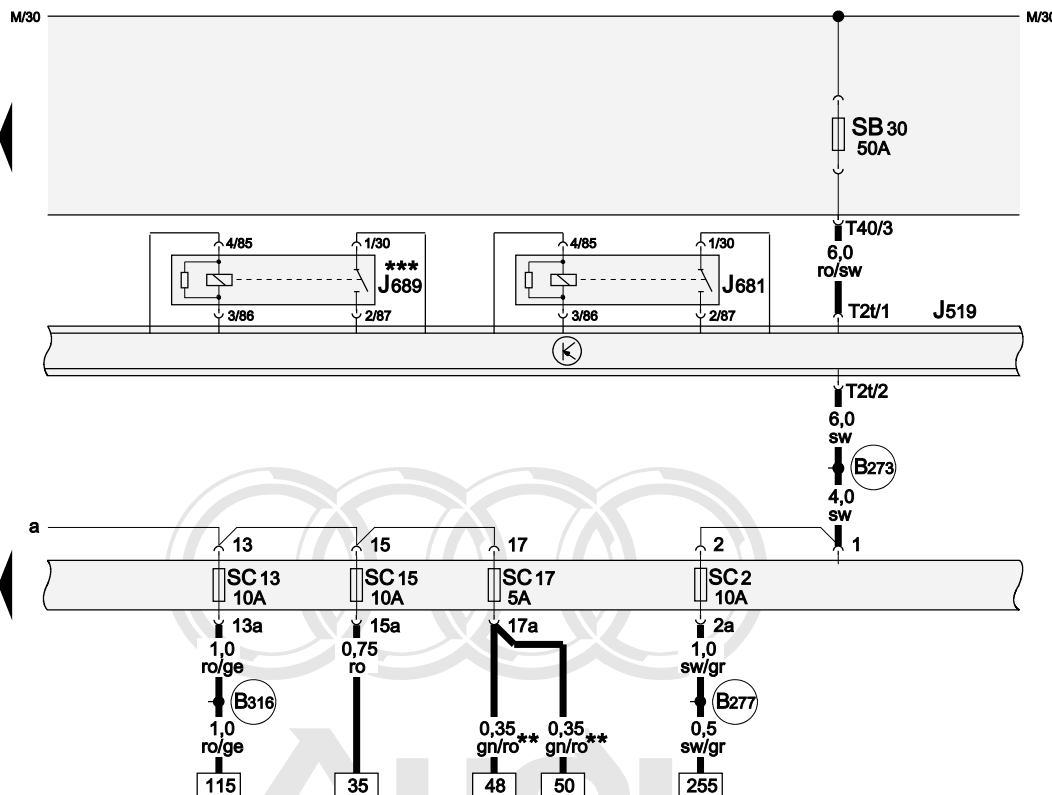
- * Screw connection, is dropped from November 2008
** ⇒ applicable Current Flow Diagram with battery in engine compartment

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

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Fuses on fuse holder, terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J689 Terminal 30 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC17 Fuse 17 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

B273 Positive connection (15), in main wiring harness

B277 Positive connection 1 (15a), in main wiring harness

B316 Positive connection 2 (30a), in main wiring harness

** for models with anti-theft alarm system only

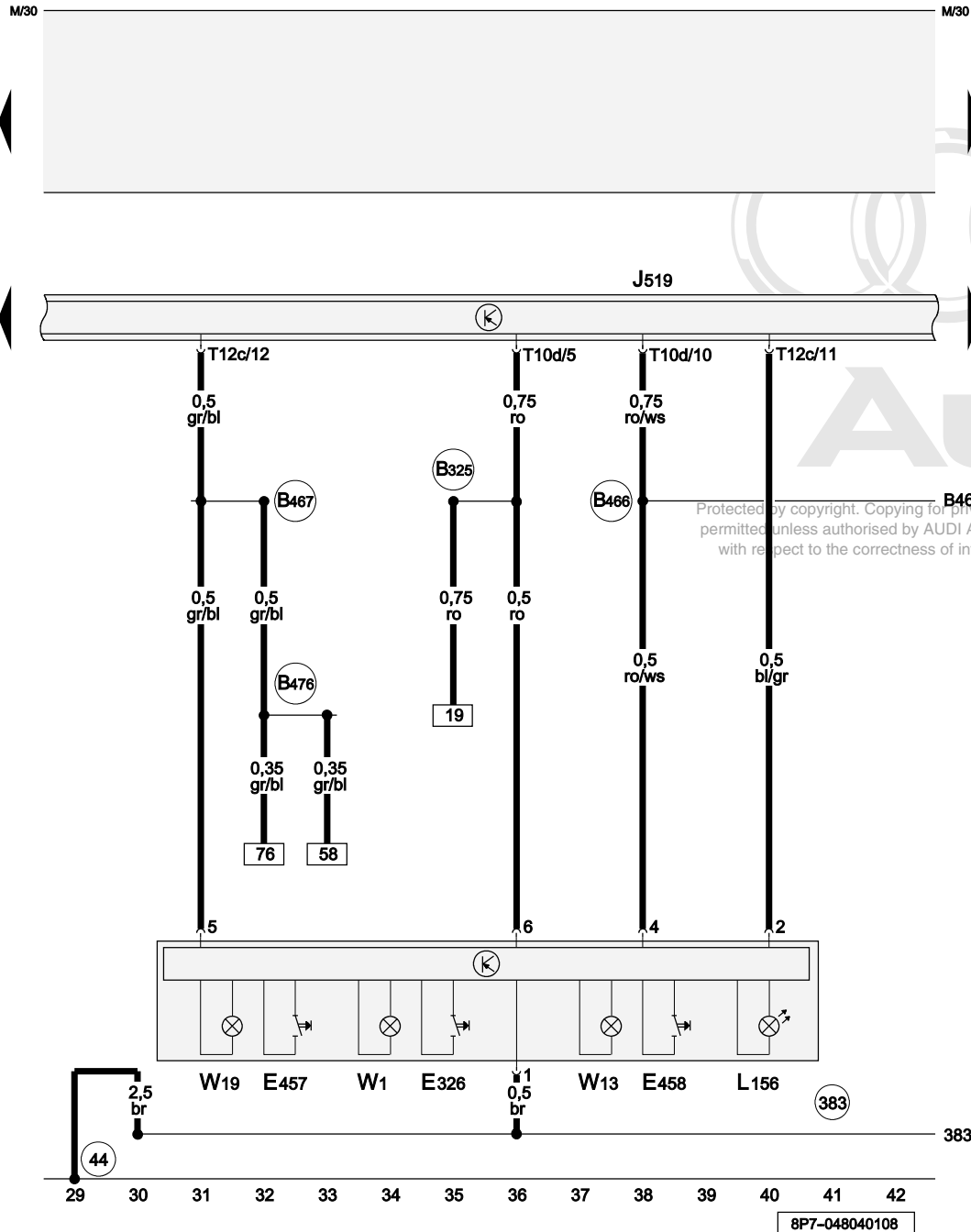
*** for models with interior light only

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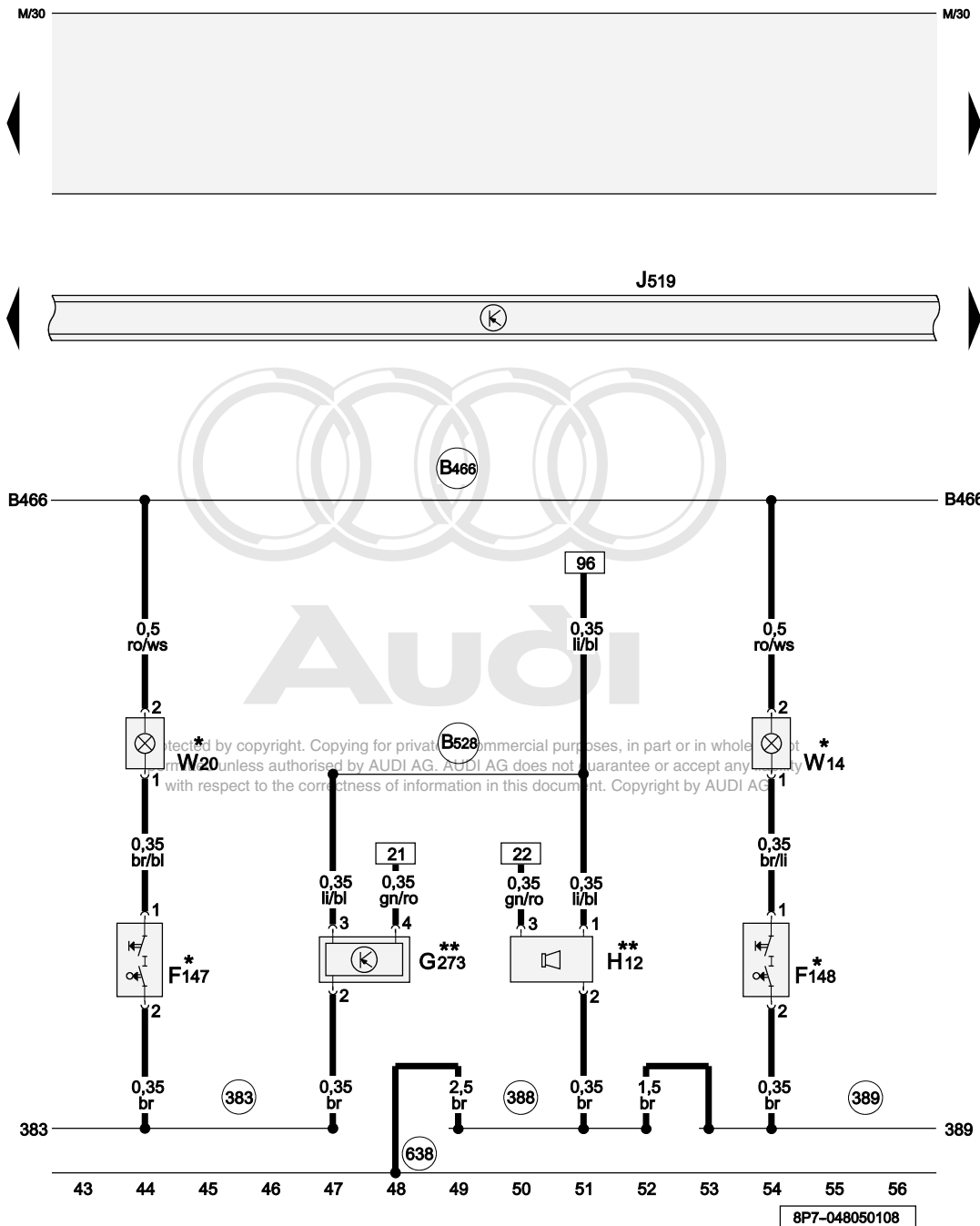
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Front interior light with reading lights

- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- L156 Switch illumination bulb
- T10d 10-pin connector, black (connector K)
- T12c 12-pin connector, black (connector B)
- W1 Front interior light
- W13 Front passenger side reading light
- W19 Driver side reading light

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- B325 Positive connection 11 (30a), in main wiring harness
- B466 Connection 2 in main wiring harness
- B467 Connection 3 in main wiring harness
- B476 Connection 12 in main wiring harness

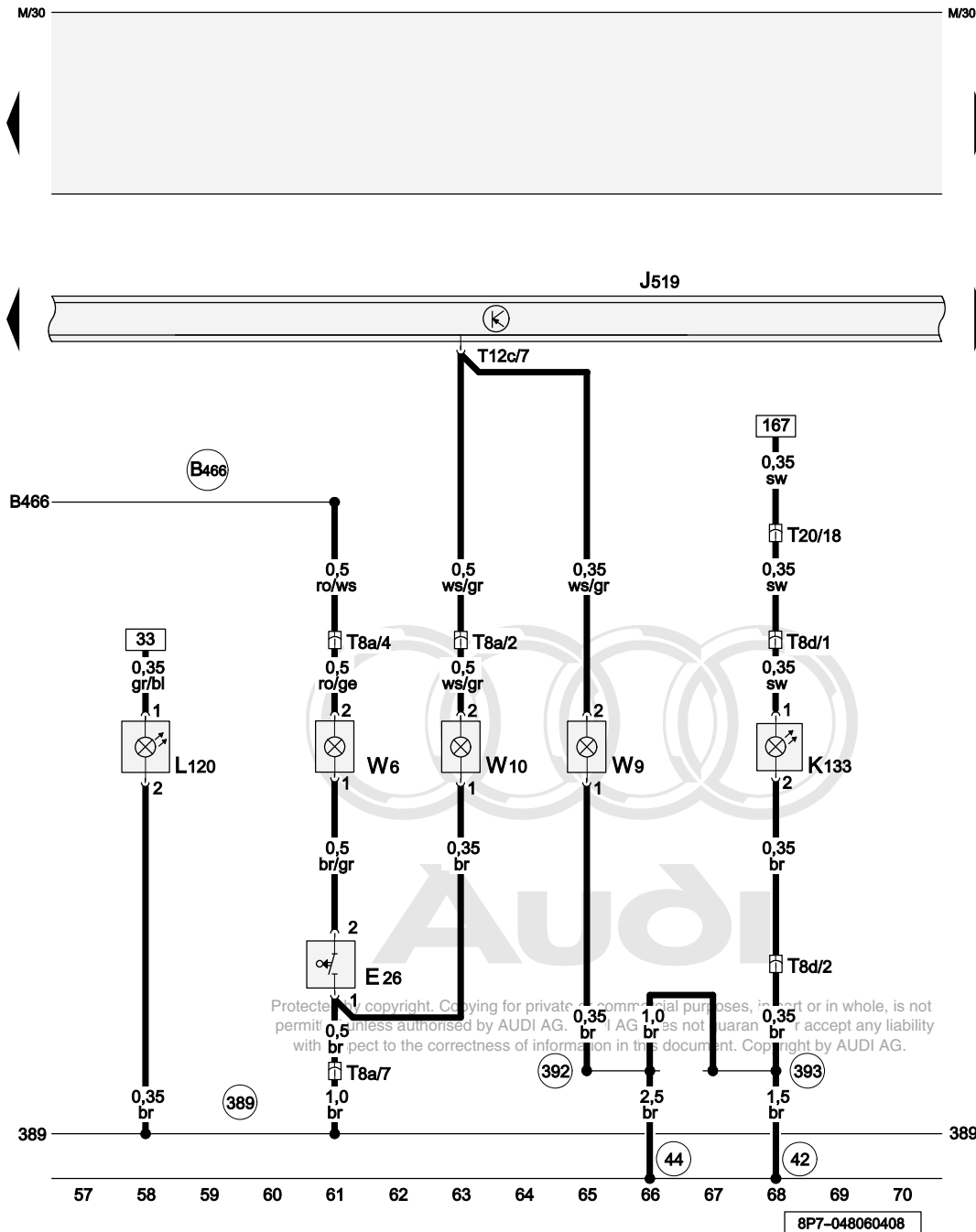


Vanity mirror contact switch, interior monitoring sensor, alarm horn

- F147 Driver vanity mirror contact switch
- F148 Front passenger side vanity mirror contact switch
- G273 Interior monitoring sensor
- H12 Alarm horn
- J519 Onboard supply control unit
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror

- 383 Earth connection 18, in main wiring harness
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 638 Earth point, right A-pillar
- B466 Connection 2 in main wiring harness
- B528 Connection 1 (LIN bus), in main wiring harness

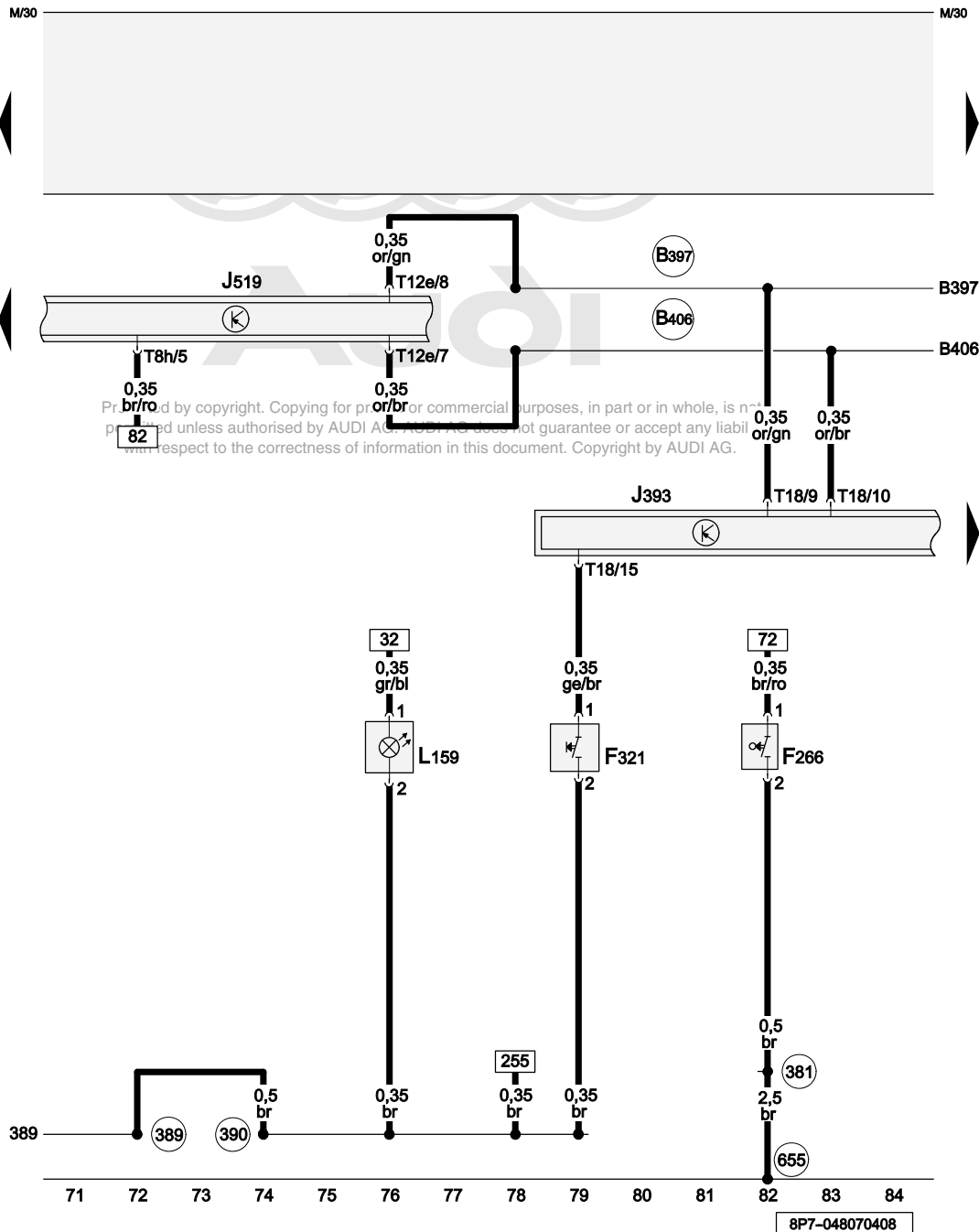
- * for models with illuminated vanity mirror without garage door operation only
- ** for models with anti-theft alarm system only



Storage compartment illumination, footwell lights, glove compartment light, central locking deadlock function warning lamp -SAFE-

- E26 Glove compartment light switch
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- L120 Storage compartment illumination bulb
- T8a 8-pin connector, black, near glove compartment
- T8d 8-pin connector, black, behind centre console
- T12c 12-pin connector, black (connector B)
- T20 20-pin connector, black, door A-pillar left
- W6 Glove compartment light
- W9 Left footwell light
- W10 Right footwell light

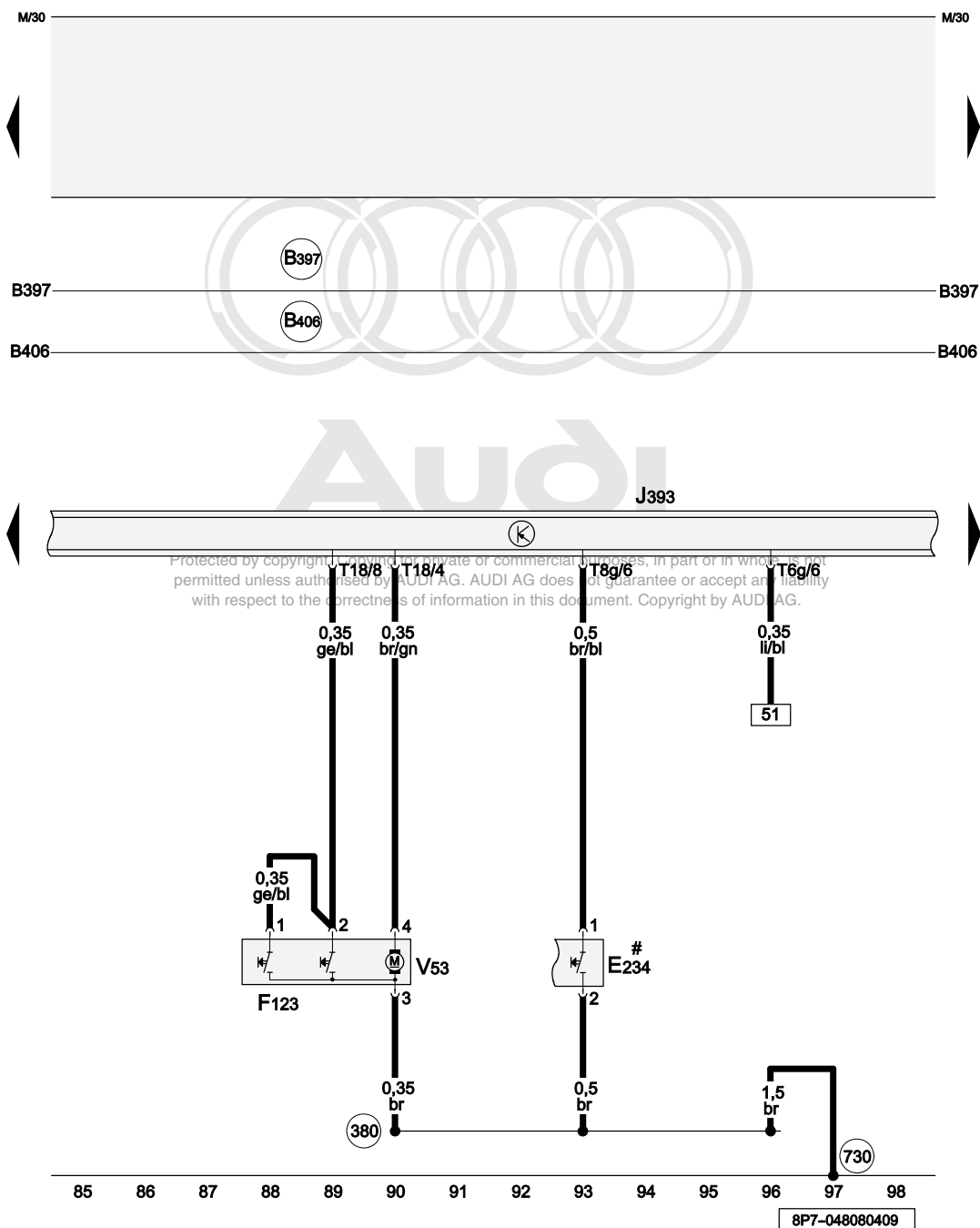
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 389 Earth connection 24, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B466 Connection 2 in main wiring harness



Storage compartment illumination, parking brake contact switch, bonnet contact switch

- F266 Bonnet contact switch
- F321 Parking brake contact switch
- J393 Convenience system central control unit
- J519 Onboard supply control unit
- L159 Centre console storage compartment illumination
- T8h 8-pin connector, black (connector F)
- T12e 12-pin connector, black (connector G)
- T18 18-pin connector, brown (connector A)

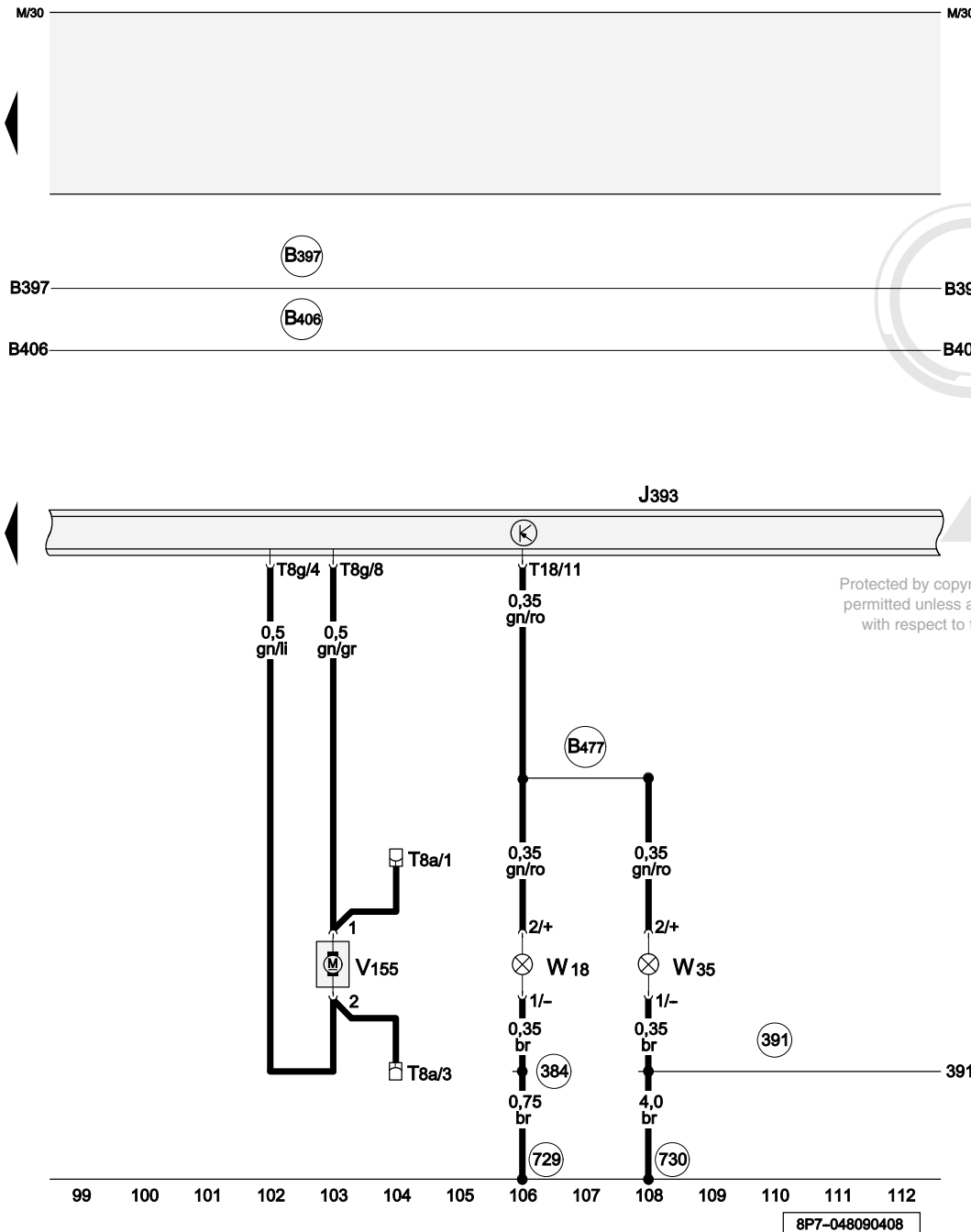
- 381 Earth connection 16, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 655 Earth point, on left headlight
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness



Rear lid handle release button, rear lid contact switch for anti-theft alarm, rear lid central locking motor

- | | |
|------|--|
| E234 | Rear lid handle release button |
| F123 | Rear lid contact switch for anti-theft alarm system |
| J393 | Convenience system central control unit |
| T6g | 6-pin connector, black (connector E) |
| T8g | 8-pin connector, black (connector B) |
| T18 | 18-pin connector, brown (connector A) |
| V53 | Rear lid central locking motor |
| 380 | Earth connection 15, in main wiring harness |
| 730 | Earth point 1 on rear right wheel housing |
| B397 | Connection 1 (convenience CAN bus, high), in main wiring harness |
| B406 | Connection 1 (convenience CAN bus, low), in main wiring harness |
| # | F248 is replaced by E234 |

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

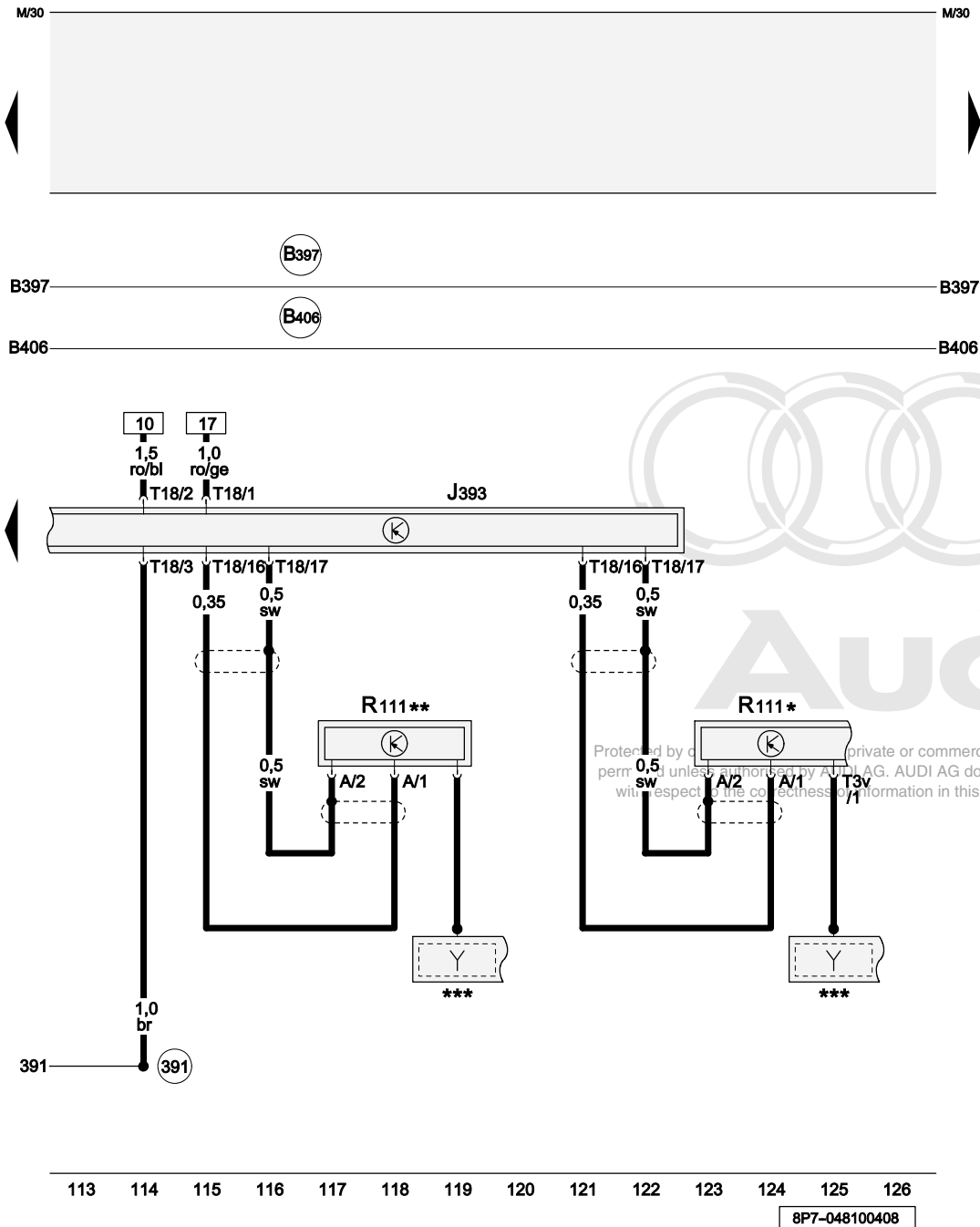


Tank filler flap locking motor, luggage compartment lights

- J393 Convenience system central control unit
- T8a 8-pin connector, black, near glove compartment
- T8g 8-pin connector, black (connector B)
- T18 18-pin connector, brown (connector A)
- V155 Tank filler flap locking motor
- W18 Luggage compartment light on left
- W35 Right luggage compartment light

- 384 Earth connection 19, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 729 Earth point, on rear left wheel housing
- 730 Earth point 1 on rear right wheel housing
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B477 Connection 13 in main wiring harness

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Aerials

- J393 Convenience system central control unit
- R111 Aerial amplifier 2
- T3v 3-pin connector
- T18 18-pin connector, brown (connector A)

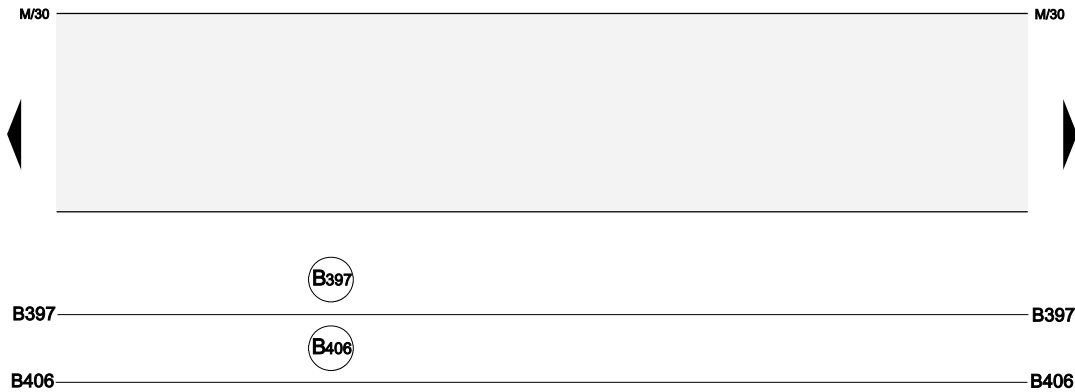
391 Earth connection 26, in main wiring harness

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models with radio or radio navigation system only
- ** not for models with radio or radio navigation system
- *** on front right windscreen

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

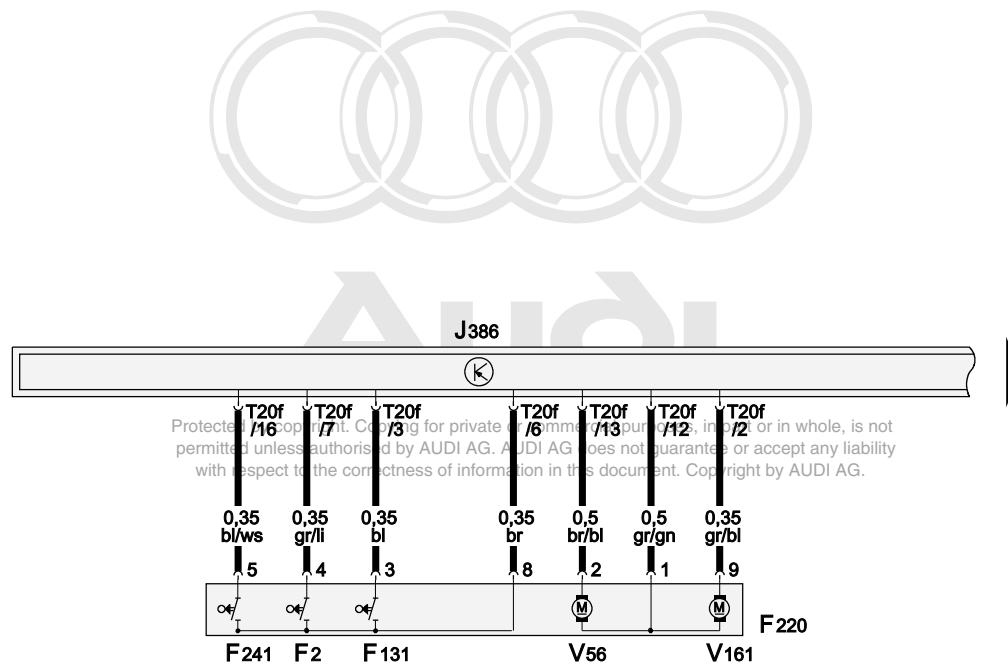


Driver side central locking lock unit

- F2 Driver door contact switch
- F131 Front left central locking actuator
- F220 Driver side central locking lock unit
- F241 Driver side contact switch in lock cylinder
- J386 Driver door control unit
- T20f 20-pin connector, black (connector A)
- V56 Driver door central locking motor
- V161 Driver door central locking deadlock function motor

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

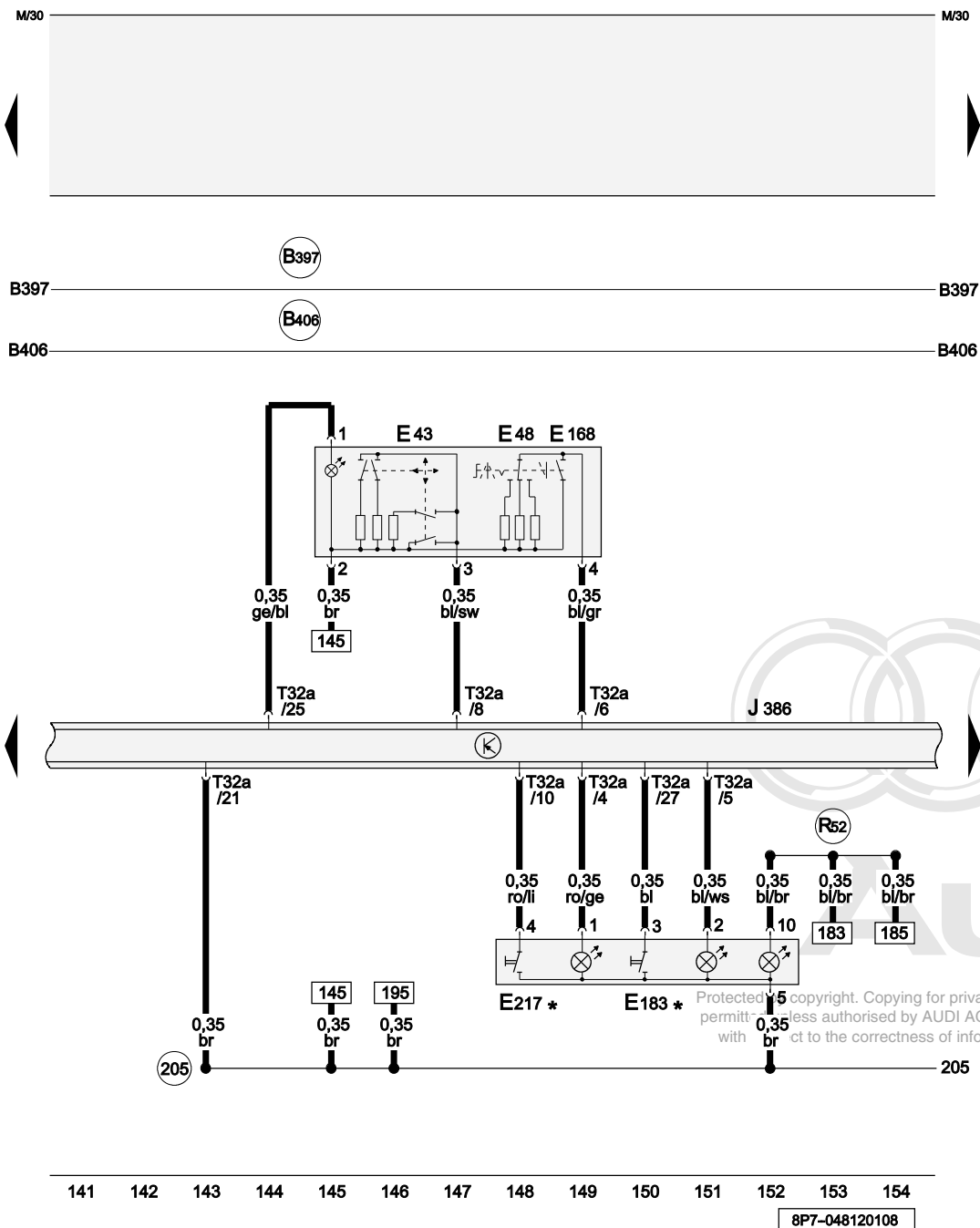


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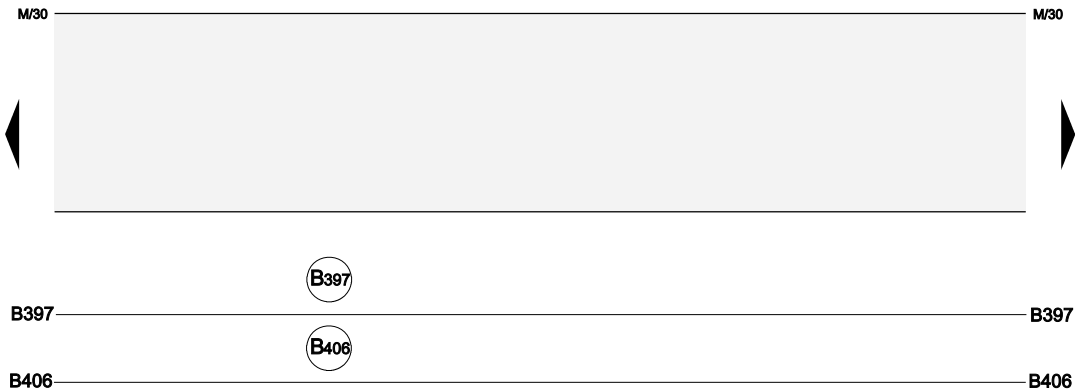
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink



Mirror adjustment switch, alarm system off switch

- E43 Mirror adjustment switch
- E48 Mirror adjustment change-over switch
- E168 Adjustment switch for mirror with fold-in feature
- E183 Interior monitoring deactivation switch
- E217 Alarm system off switch
- J386 Driver door control unit
- T32a 32-pin connector, grey (connector C)

- 205 Earth connection, in driver door wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- R52 Connection (58s), in driver side door wiring harness
- * for models with interior monitor only



Front left entry light, interior locking button, driver side, door warning lamp, driver side, driver door opener illumination

- E308 Driver side interior locking button
- J386 Driver door control unit
- L108 Driver door opener illumination bulb
- T20f 20-pin connector, black (connector A)
- T32a 32-pin connector, grey (connector C)
- W30 Driver side door warning lamp
- W31 Front left entry light

205 Earth connection, in driver door wiring harness

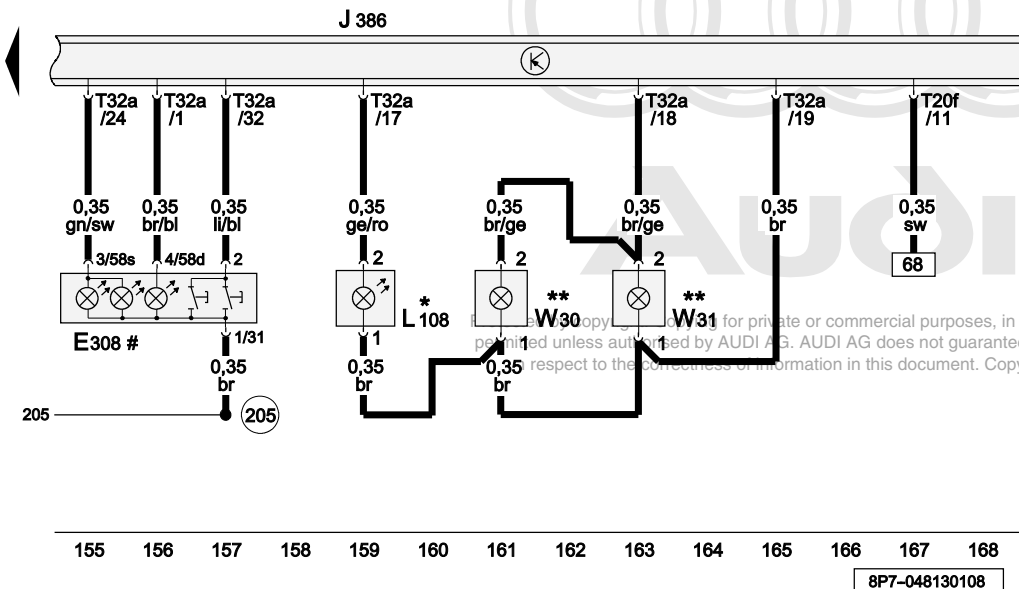
B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

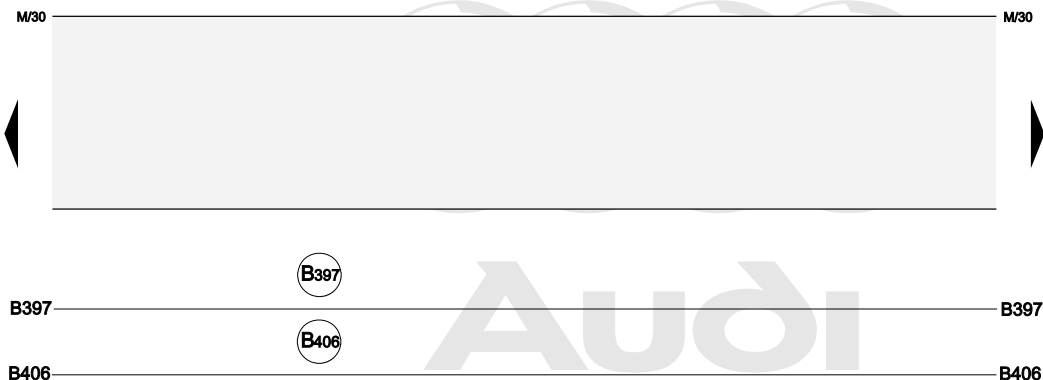
* for models with door opener illumination only

** for models with entry warning lamp and door warning lamp only

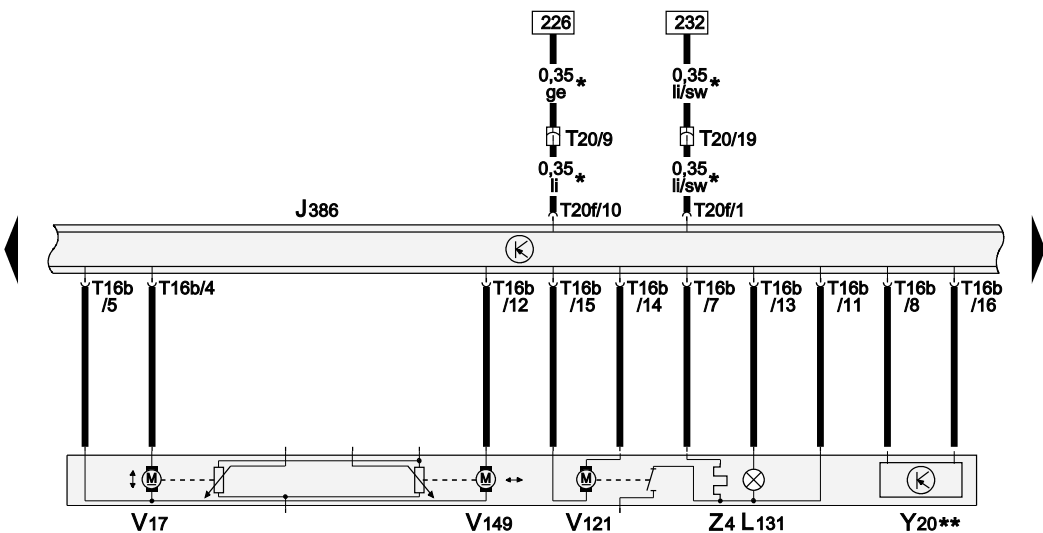
E150 is replaced by E308



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169 170 171 172 173 174 175 176 177 178 179 180 181 182

8P7-048140108

Driver side mirror adjustment motor/fold-in mirror motor, driver side exterior mirror turn signal bulb

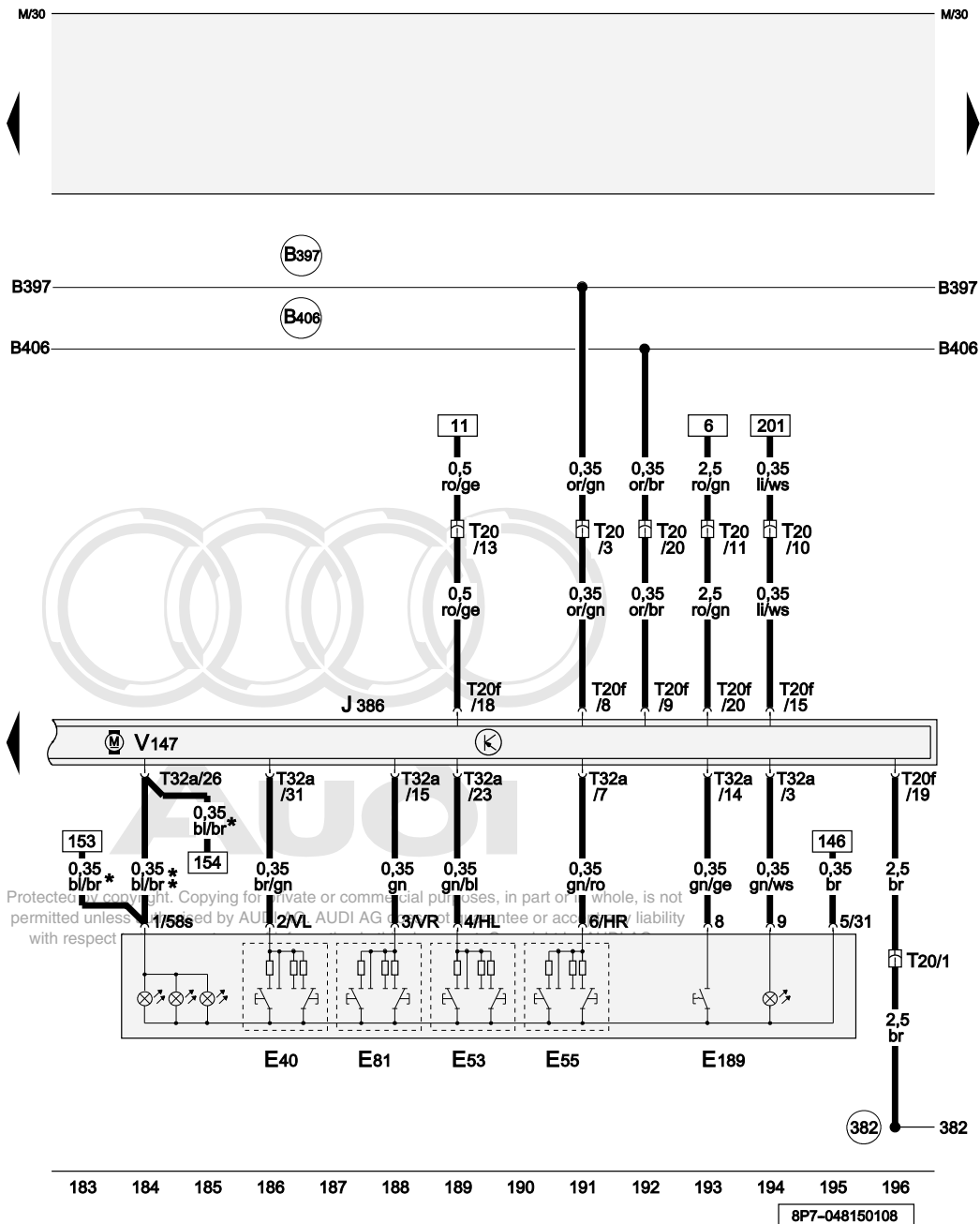
- J386 Driver door control unit
- L131 Driver side exterior mirror turn signal bulb
- T16b 16-pin connector, (connector B)
- T20 20-pin connector, black, door A-pillar left
- T20f 20-pin connector, black (connector A)
- V17 Driver side mirror adjustment motor
- V121 Driver side fold-in mirror motor
- V149 Driver side mirror adjustment motor
- Y20 Driver side automatic anti-dazzle exterior mirror
- Z4 Driver side heated exterior mirror

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models with automatic anti-dazzle interior mirror only
- ** for models with automatic anti-dazzle exterior mirror only

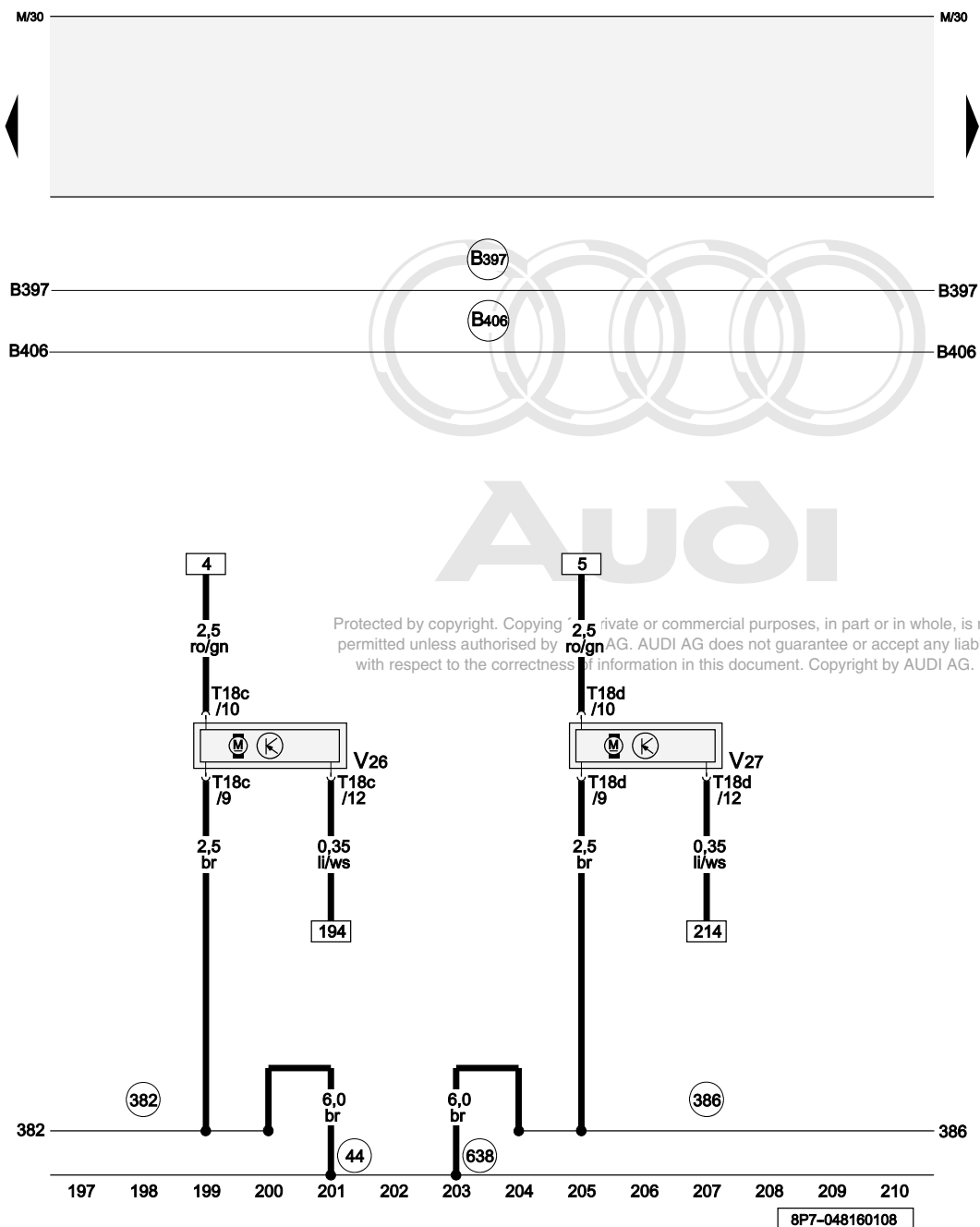
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- or = orange
- rs = pink



Window regulator switch, driver side

- E40 Front left window regulator switch
- E53 Rear left window regulator switch, in driver door
- E55 Rear right window regulator switch, in driver door
- E81 Front right window regulator switch in driver door
- E189 Central switch for window regulators in driver door
- J386 Driver door control unit
- T20 20-pin connector, black, door A-pillar left
- T20f 20-pin connector, black (connector A)
- T32a 32-pin connector, grey (connector C)
- V147 Driver side window regulator motor

- 382 Earth connection 17, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * for models with interior monitor only
- ** for models without interior monitor only

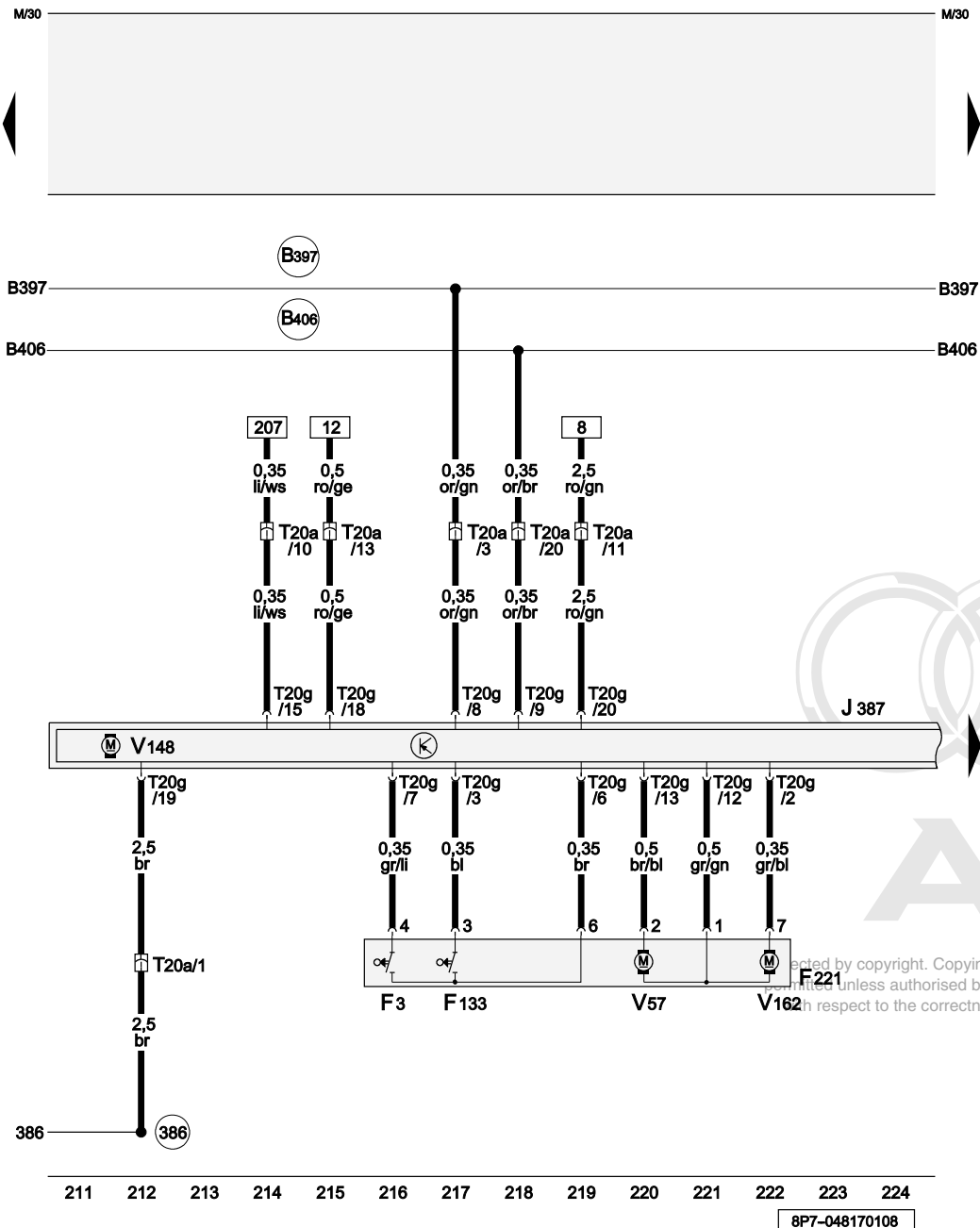


Rear window regulator motor

- T18c 18-pin connector, white (connector A)
- T18d 18-pin connector, white (connector A)
- V26 Rear left window regulator motor
- V27 Rear right window regulator motor

- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 386 Earth connection 21, in main wiring harness
- 638 Earth point, right A-pillar
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

ws = white
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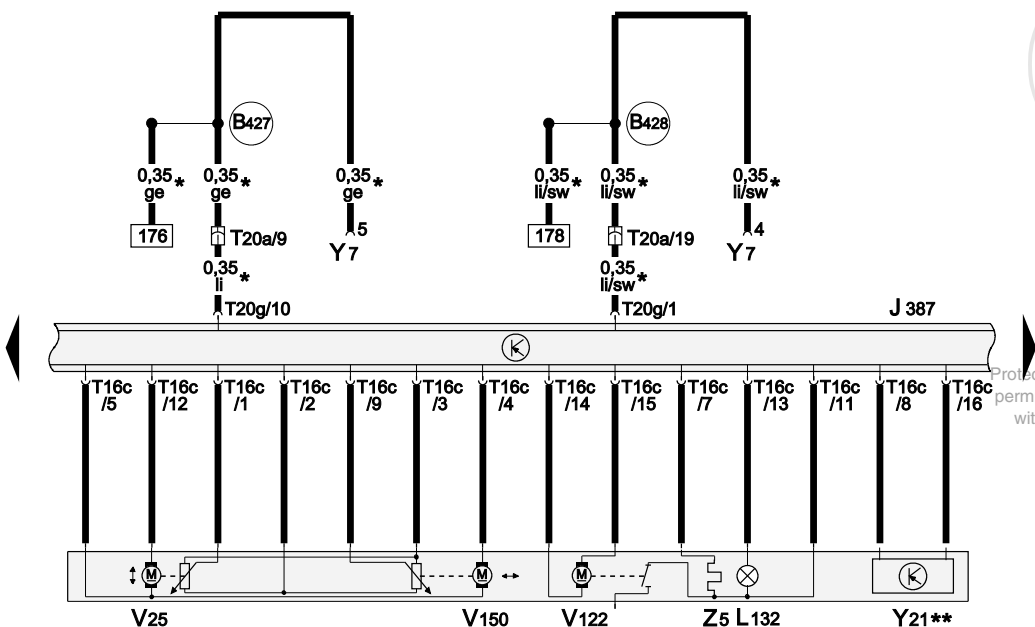
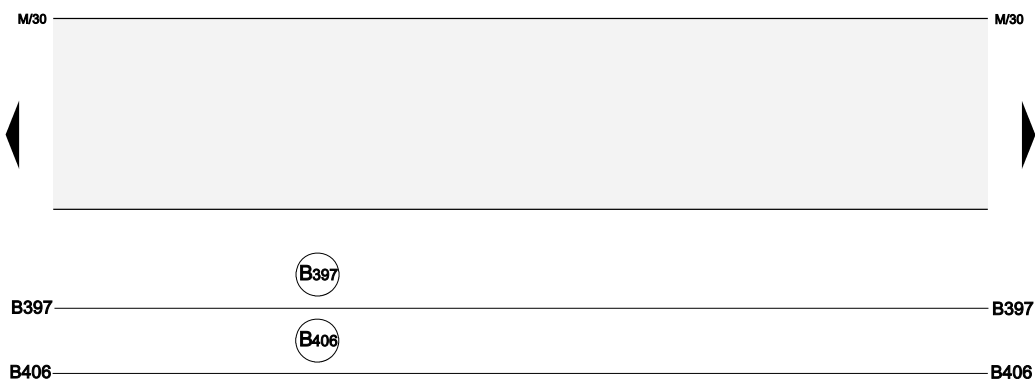


Front passenger side central locking lock unit

- F3 Front passenger door contact switch
- F133 Front right central locking actuator
- F221 Front passenger side central locking lock unit
- J387 Front passenger door control unit
- T20a 20-pin connector, black, door A-pillar right
- T20g 20-pin connector, black (connector A)
- V57 Front passenger door central locking motor
- V148 Front passenger side window regulator motor
- V162 Front passenger door central locking deadlock function motor

- 386 Earth connection 21, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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 rs = pink



Front passenger side mirror adjustment motor/fold-in mirror motor, front passenger side exterior mirror turn signal bulb

- J387 Front passenger door control unit
- L132 Front passenger side exterior mirror turn signal bulb
- T16c 16-pin connector, (connector B)
- T20a 20-pin connector, black, door A-pillar right
- T20g 20-pin connector, black (connector A)
- V25 Front passenger side mirror adjustment motor
- V122 Front passenger side fold-in mirror motor
- V150 Front passenger side mirror adjustment motor
- Y7 Automatic anti-dazzle interior mirror
- Y21 Front passenger side automatic anti-dazzle exterior mirror
- Z5 Front passenger side heated exterior mirror

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

B427 Connection 1 (mirror signal), in main wiring harness

B428 Connection 2 (mirror signal), in main wiring harness

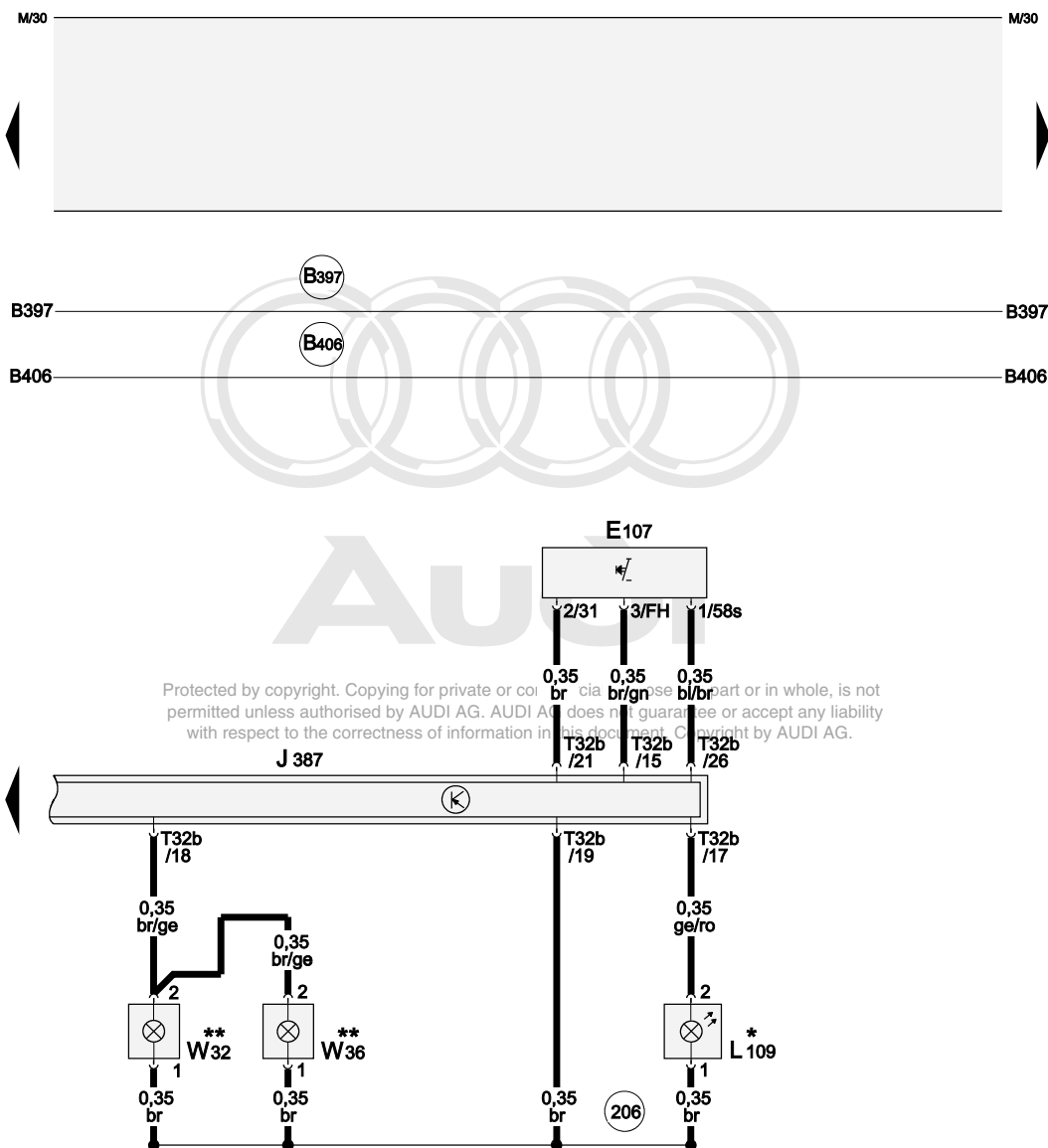
* for models with automatic anti-dazzle interior mirror only
 ** for models with automatic anti-dazzle exterior mirror only

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225 226 227 228 229 230 231 232 233 234 235 236 237 238

8P7-048180108



Front right entry light, front passenger side door warning lamp, window regulator switch in front passenger door, front passenger door opener illumination

- E107 Window regulator switch in front passenger door
- J387 Front passenger door control unit
- L109 Front passenger door opener illumination bulb
- T32b 32-pin connector, grey (connector C)
- W32 Front right entry light
- W36 Front passenger side door warning lamp

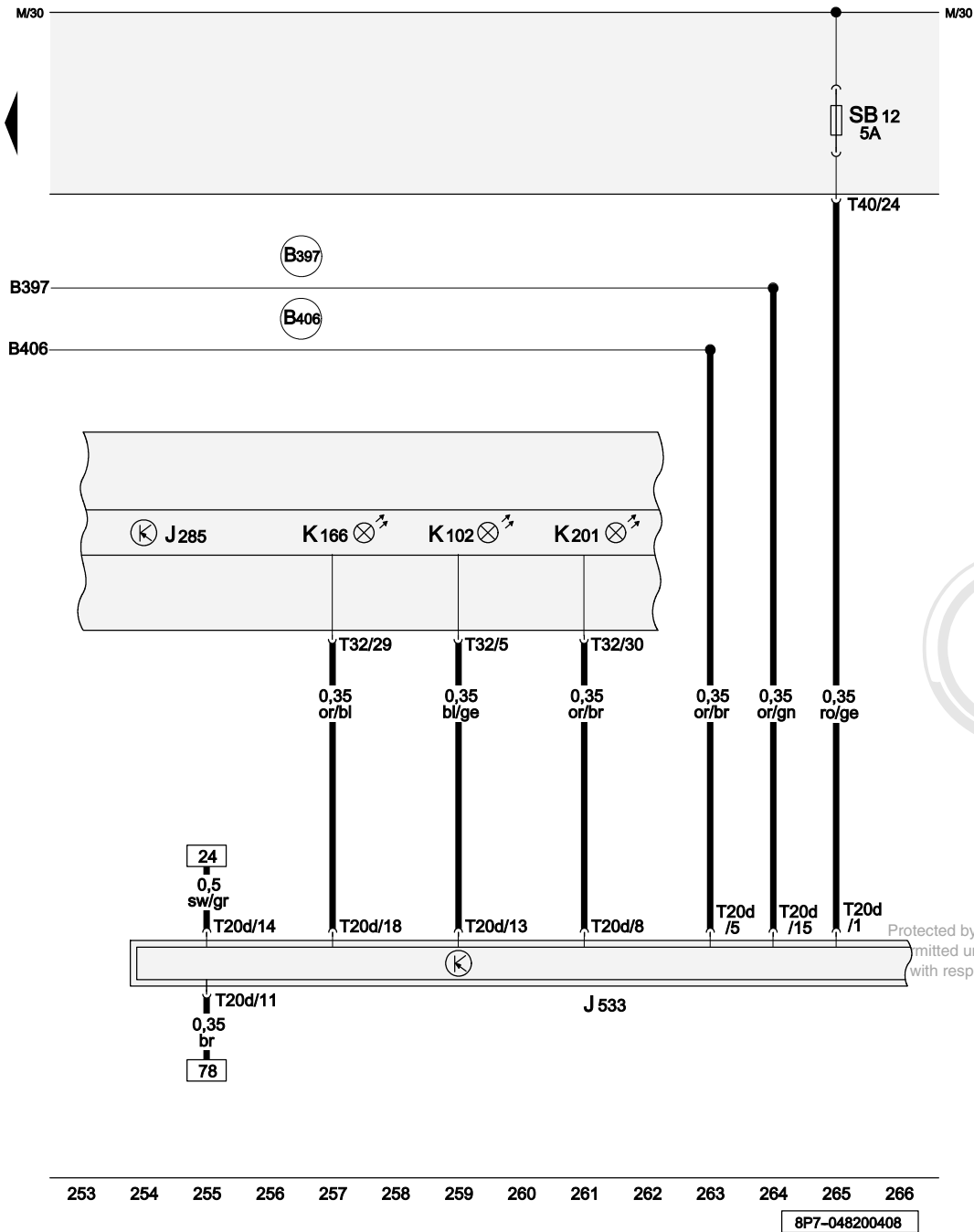
- 206 Earth connection, in door wiring harness, front passenger side
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models with door opener illumination only
- ** for models with entry warning lamp and door warning lamp only

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 rs = pink

239 240 241 242 243 244 245 246 247 248 249 250 251 252

8P7-048190108



Control unit in dash panel insert, data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K102 Rear lid closed warning lamp
- K166 Door open warning lamp
- K201 Fuel tank flap lock warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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Radiator fan control 100 W, 220 W

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

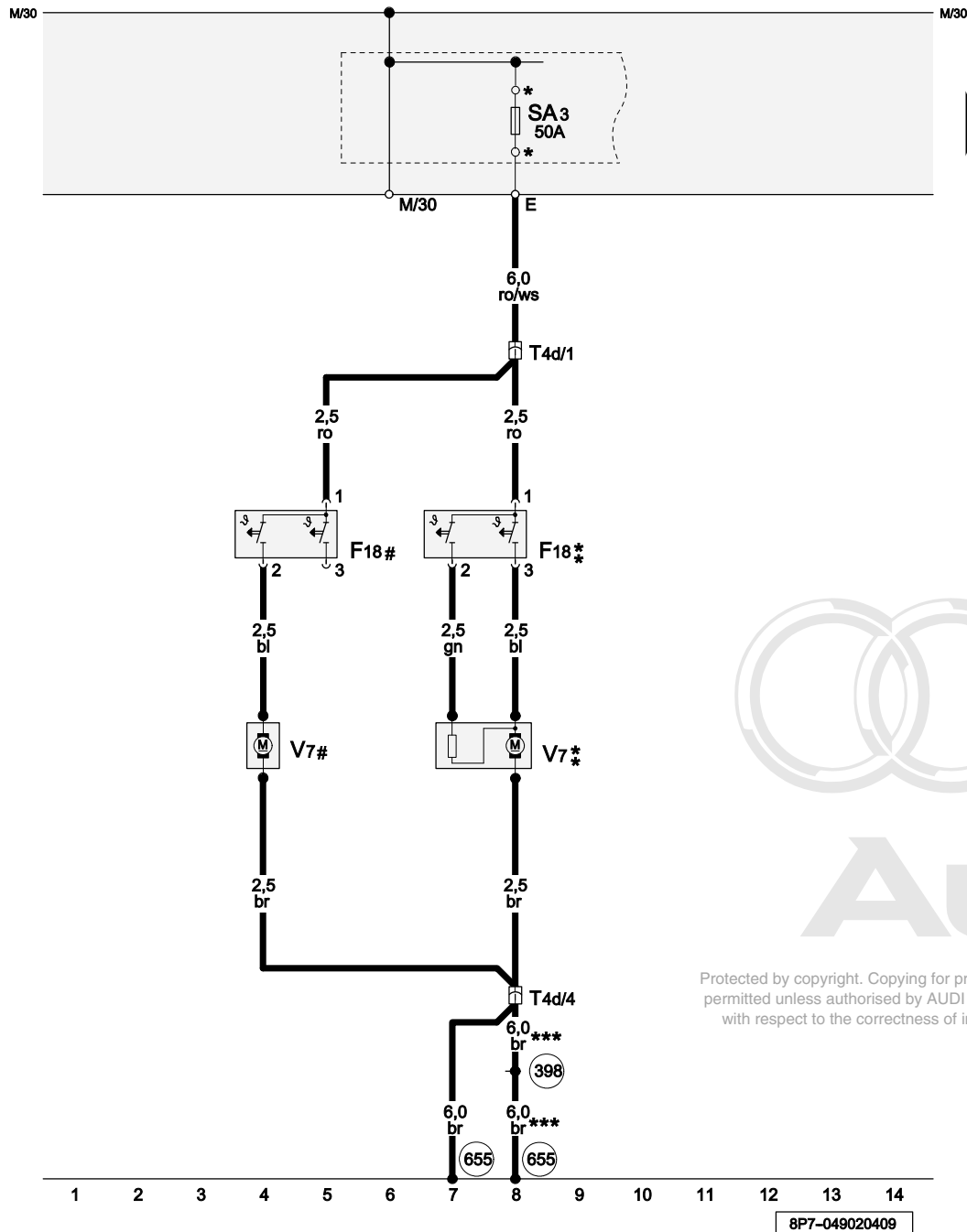
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Radiator fan

- F18 Radiator fan thermal switch
- SA3 Fuse 3 on fuse holder A
- T4d 4-pin connector, black, on radiator fan (front end)
- V7 Radiator fan

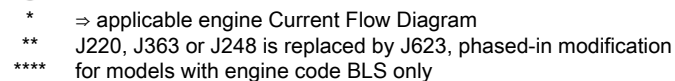
398 Earth connection 33, in main wiring harness

655 Earth point, on left headlight

- * Screw connection, is dropped from November 2008
- ** for models with 220W radiator fan only
- *** for models with exhaust concept EU4, engine codes BSE only
- # for models with 100W radiator fan only

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8P7-049020409



**** for models with engine code BLS only

rs = pink



Radiator fan control 340 W

⇒ for petrol engines with air conditioning system only

⇒ Engine code BSE

from May 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

◆ Earth connections

⇒ List of Fitting Locations!

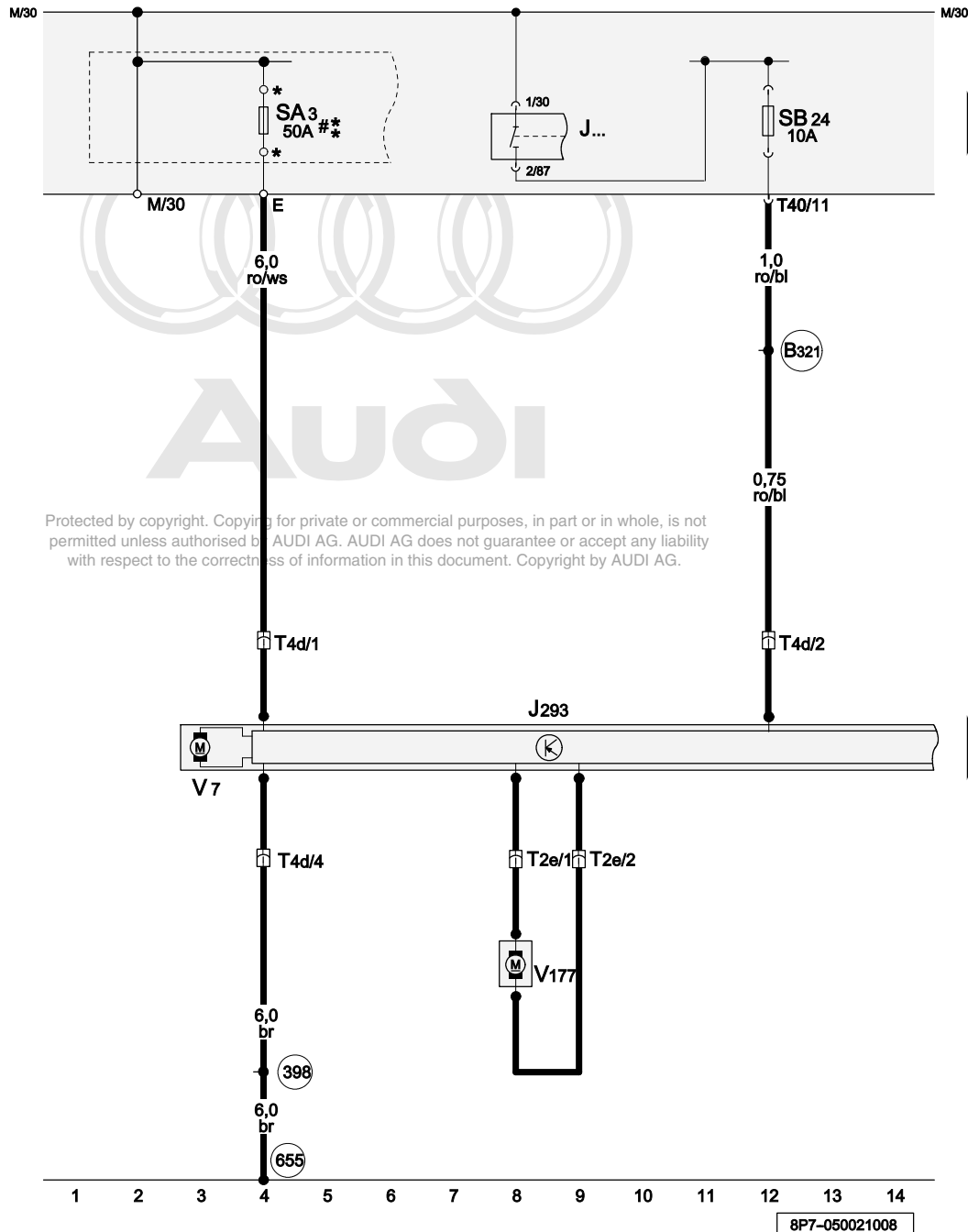
For information concerning

◆ Fault Finding Programs

⇒ guided fault finding



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Radiator fan, radiator fan 2

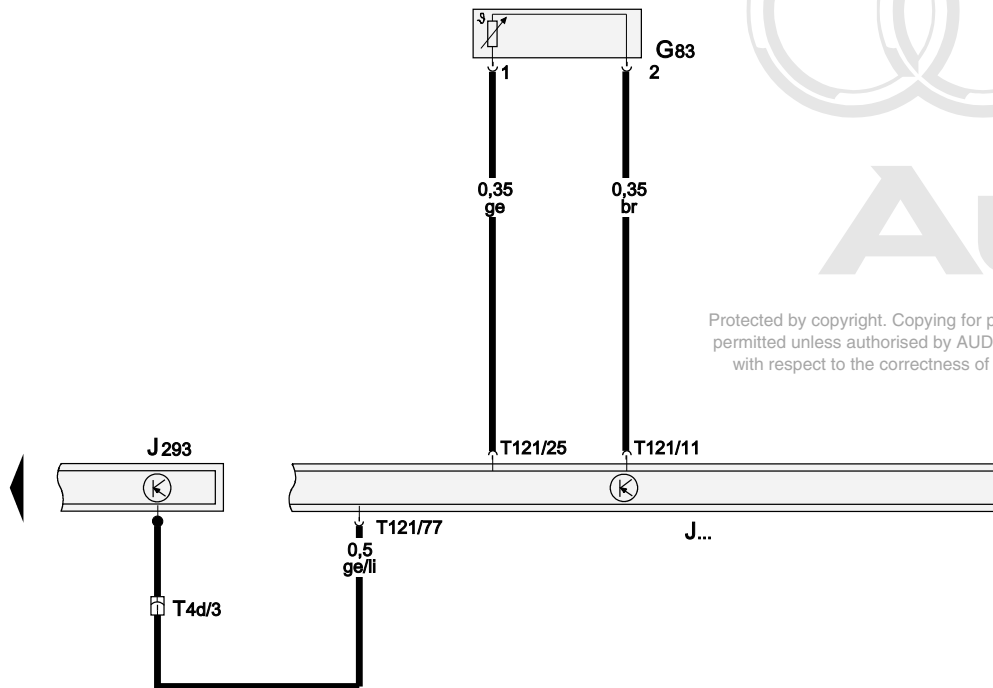
- J... Engine management relay
- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- SB24 Fuse 24 on fuse holder B
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V7 Radiator fan
- V177 Radiator fan 2
- 398 Earth connection 33, in main wiring harness
- 655 Earth point, on left headlight
- B321 Positive connection 7 (30a), in main wiring harness
- * Screw connection, is dropped from November 2008
- ** depends on equipment (8Z6, 8Z9), engine code BSE
- # depends on equipment (8Z4, 8Z5, 8Z7) with automatic gearbox or automatic gearbox with trailer operation, engine code BSE

ws = white
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Radiator outlet coolant temperature sender

- G83 Radiator outlet coolant temperature sender
- J... Engine control units
- J293 Radiator fan control unit
- T4d 4-pin connector, black, on radiator fan (front end)
- T121 121-pin connector, black, on engine control unit



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- or = orange
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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-050030108

Radiator fan control 400 W

from March 2008

Notes:

For information concerning

◆ Position of relays and fuses

◆ Multi-pin connections

◆ Control units and relays

◆ Earth connections

⇒ List of Fitting Locations!

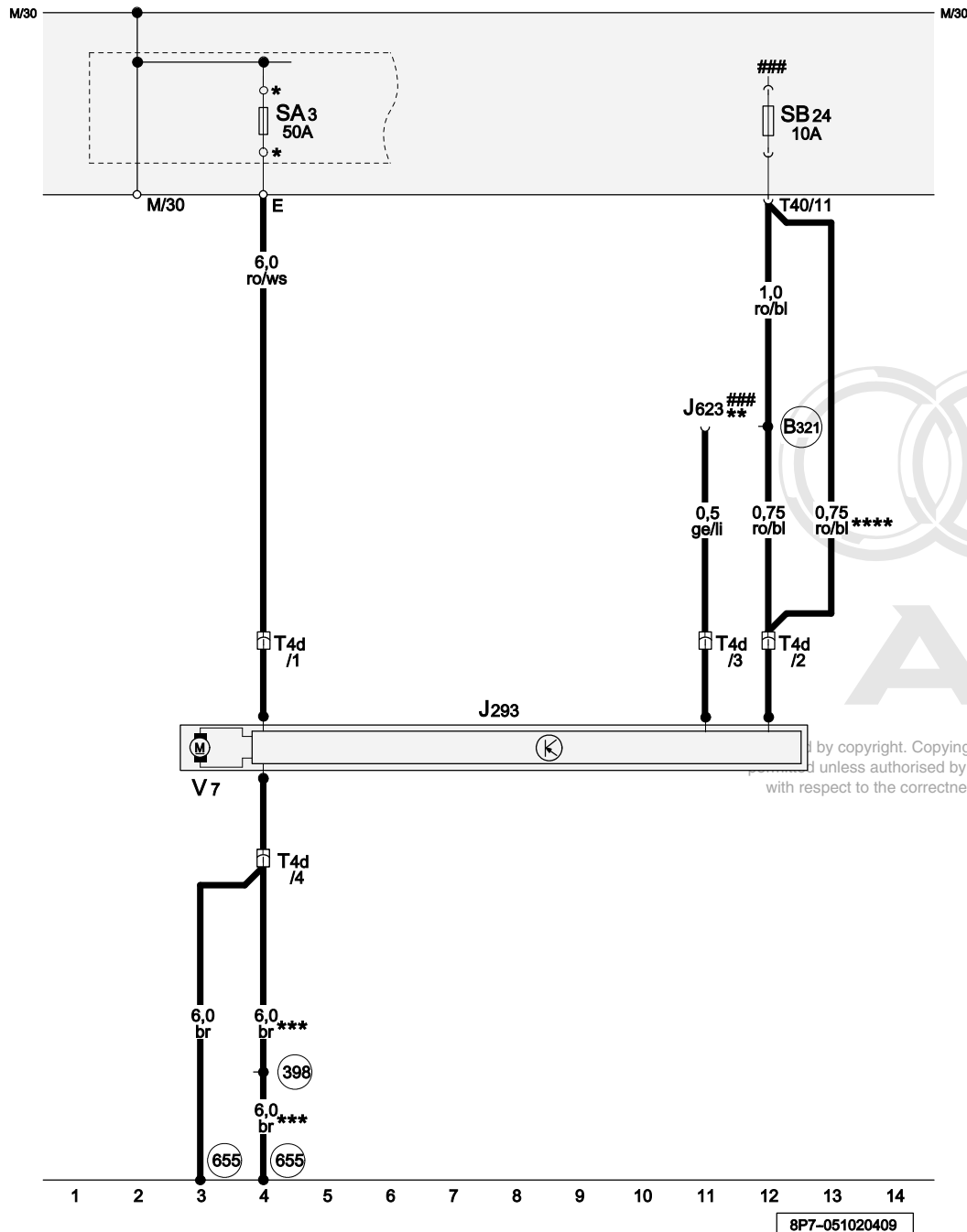
For information concerning

◆ Fault Finding Programs

⇒ guided fault finding



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Radiator fan

- J293 Radiator fan control unit
- J623 Engine control unit
- SA3 Fuse 3 on fuse holder A
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V7 Radiator fan

398 Earth connection 33, in main wiring harness

655 Earth point, on left headlight

B321 Positive connection 7 (30a), in main wiring harness

- * Screw connection, is dropped from November 2008
- ** J220, J363 or J248 is replaced by J623, phased-in modification
- *** for models with exhaust concept EU4 and engine codes BSE only
- **** for models with engine code BLS only
- ### => applicable engine Current Flow Diagram

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- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

8P7-051020409



Rear heated seat, with and without air conditioning system

from March 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

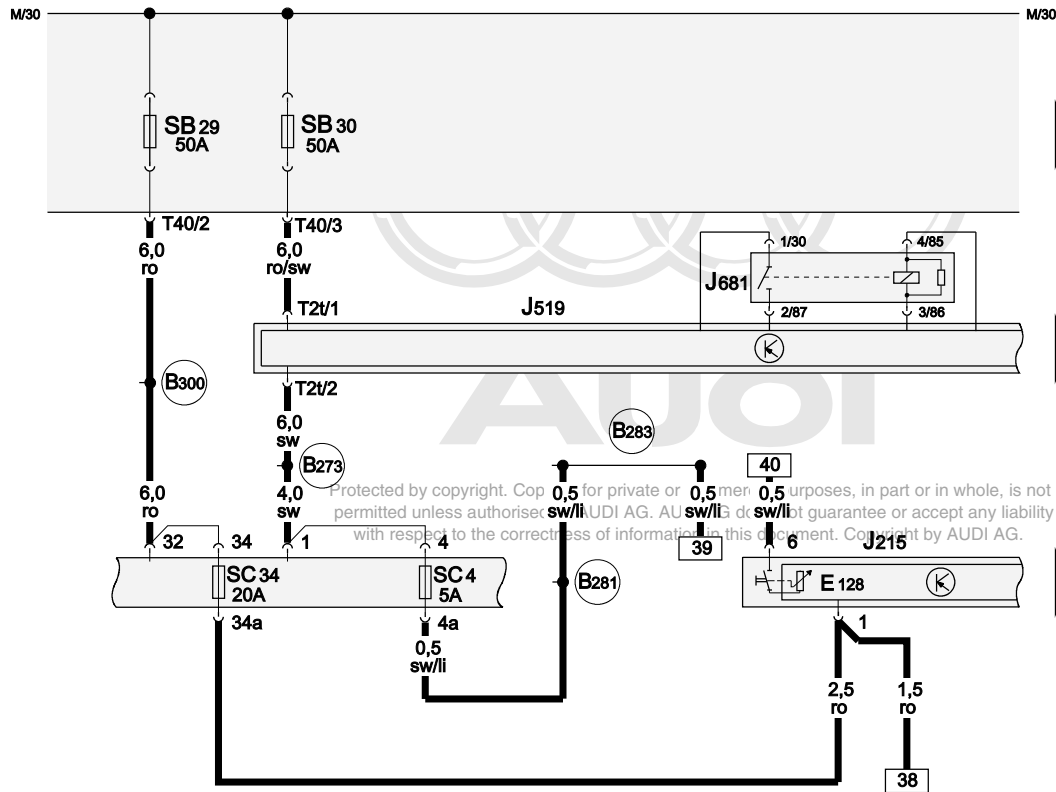
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Heated rear left seat control unit, fuse on fuse holder

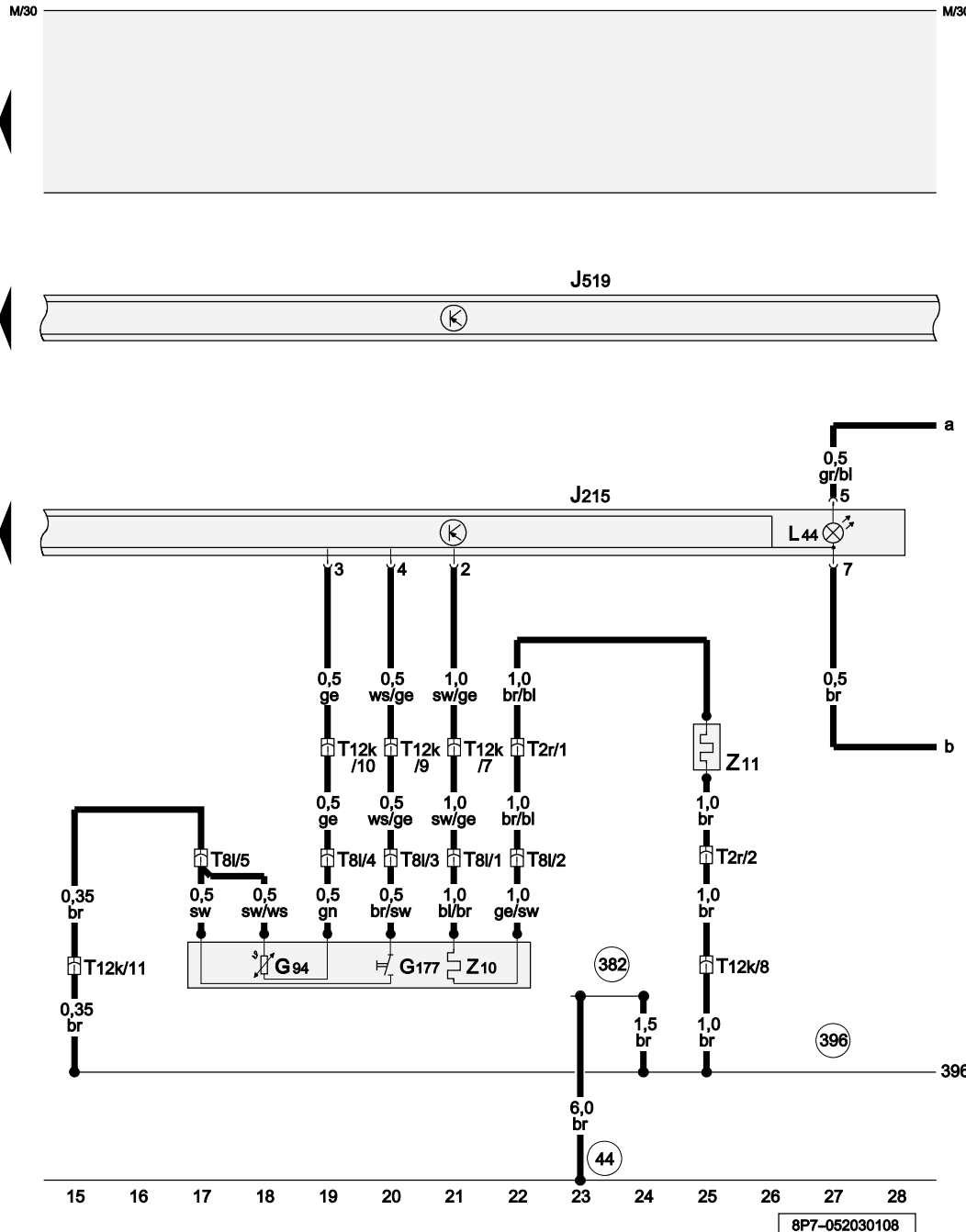
- E128 Heated rear left seat switch with regulator
- J215 Heated rear left seat control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB29 Fuse 29 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- SC34 Fuse 34 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- B300 Positive connection 4 (30), in main wiring harness

1 2 3 4 5 6 7 8 9 10 11 12 13 14

8P7-052020108

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Heated rear left seat control unit, rear left seat temperature sensor, heated bench seat cushion for rear left seat, heated backrest for rear left seat

- G94 Rear left seat temperature sensor
- G177 Rear seat occupied sensor on driver side
- J215 Heated rear left seat control unit
- J519 Onboard supply control unit
- L44 Seat heating switch illumination bulb
- T2r 2-pin connector, black, under rear seat bench
- T8l 8-pin connector, black, on rear left seat
- T12k 12-pin connector, black, under rear seat bench
- Z10 Heated rear left seat
- Z11 Heated rear left seat backrest

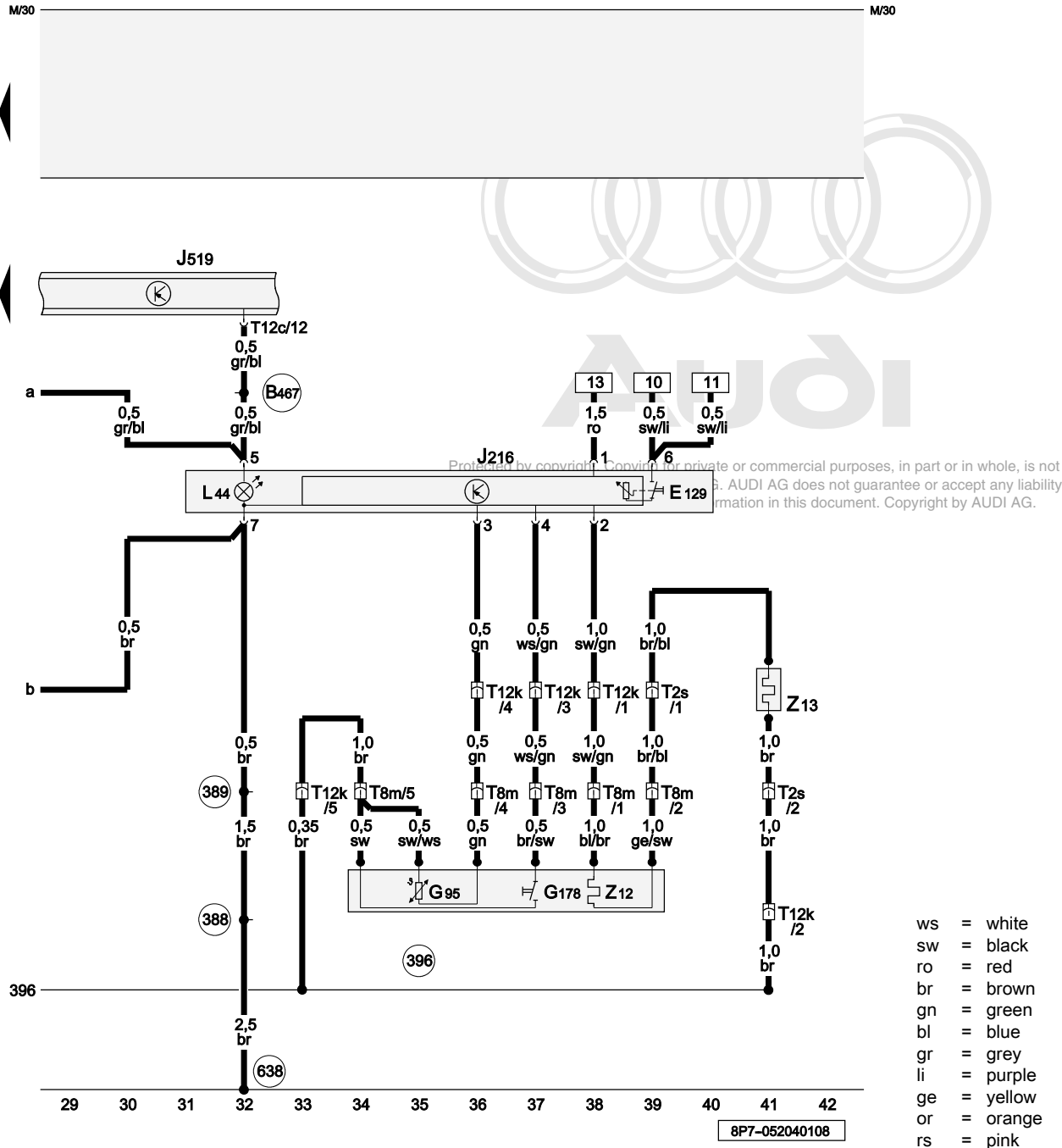
44 Earth point, lower part of left A-pillar

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382 Earth connection 17, in main wiring harness

396 Earth connection 31, in main wiring harness

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Heated rear right seat control unit, rear right seat temperature sensor, heated bench seat cushion for rear right seat, heated backrest for rear right seat

- E129 Heated rear right seat switch with regulator
- G95 Rear right seat temperature sensor
- G178 Rear seat occupied sensor on front passenger side
- J216 Heated rear right seat control unit
- J519 Onboard supply control unit
- L44 Seat heating switch illumination bulb
- T2s 2-pin connector, black, under rear seat bench
- T8m 8-pin connector, black, on rear right seat
- T12c 12-pin connector, black (connector B)
- T12k 12-pin connector, black, under rear seat bench
- Z12 Heated rear right seat
- Z13 Heated rear right seat backrest

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 396 Earth connection 31, in main wiring harness
- 638 Earth point, right A-pillar
- B467 Connection 3 in main wiring harness



Preparation for mobile telephone with hands-free system

from May 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

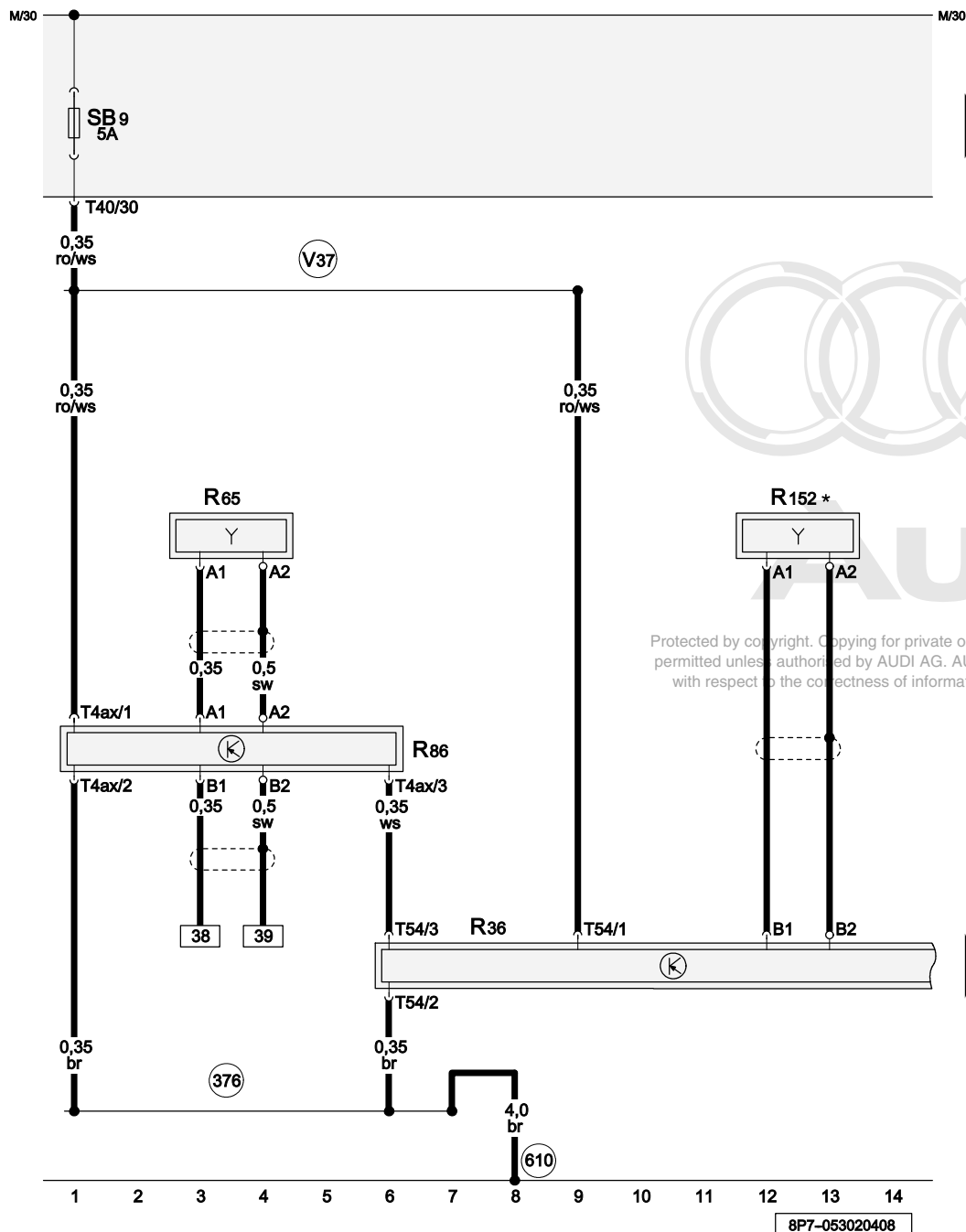
For information concerning

- ◆ Fault Finding Programs

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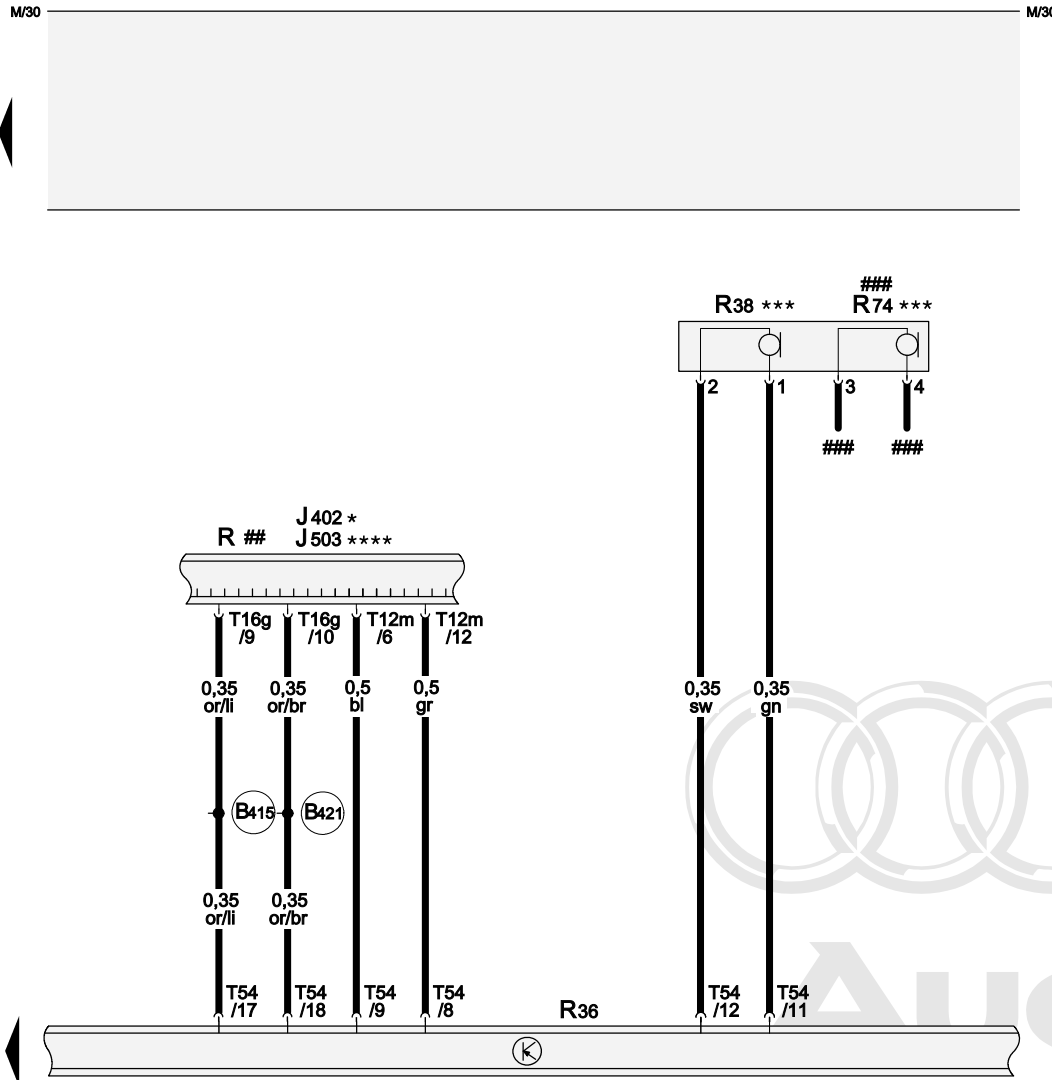


Aerial for Bluetooth, aerial for Bluetooth

- R36 Telephone transmitter and receiver unit
- R65 Telephone aerial
- R86 Aerial amplifier for mobile telephone
- R152 Aerial for Bluetooth
- SB9 Fuse 9 on fuse holder B
- T4ax 4-pin connector
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T54 54-pin connector, black (connector A)
- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), under centre console, front
- V37 Positive connection (30), in communication wiring harness
- * for models with aerial for Bluetooth only

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Telephone microphone, internal microphone

- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation system
- R Radio
- R36 Telephone transmitter and receiver unit
- R38 Telephone microphone
- R74 Internal microphone
- T12m 12-pin connector, black (connector C, connector locking green)
- T16g 16-pin connector, black (connector D)
- T54 54-pin connector, black (connector A)

- (B415) Connection 1 (infotainment CAN bus, high), in main wiring harness
- (B421) Connection 1 (infotainment CAN bus, low), in main wiring harness

- * for models with radio navigation system RNS-E only
- *** for models without voice control only
- **** for models with radio navigation system RNS-low only
- ## for models with radiogeneration II plus only
- ### for models with Bose sound system only

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-053031008



M/30

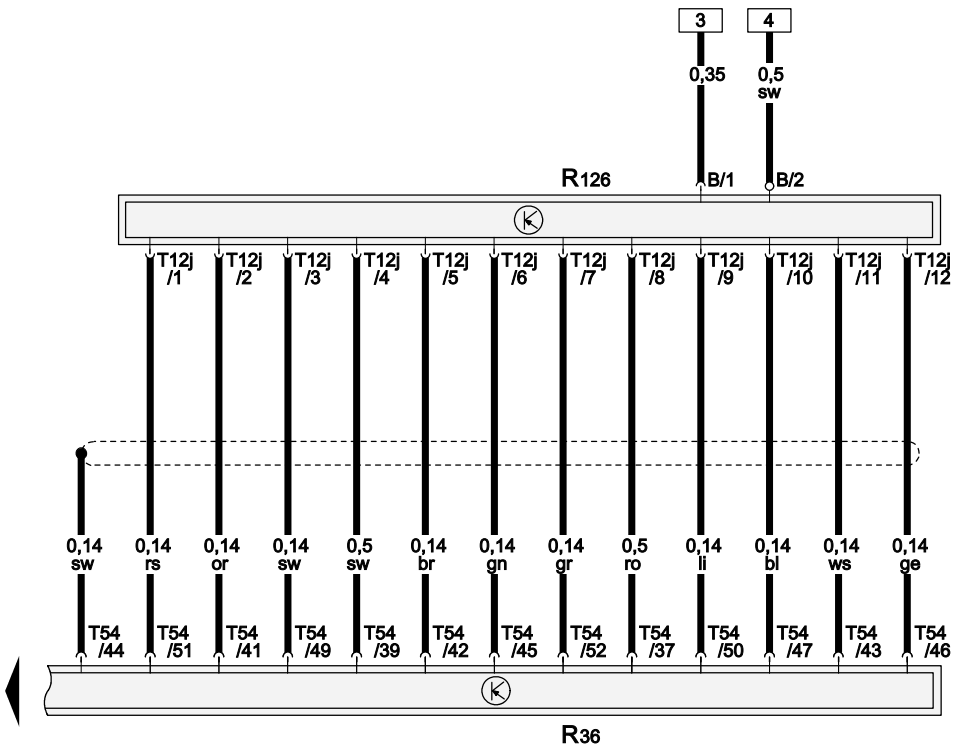
M/30

Telephone bracket

- R36 Telephone transmitter and receiver unit
- R126 Telephone bracket
- T12j 12-pin connector, brown (connector A)
- T54 54-pin connector, black (connector A)

Audi

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29 30 31 32 33 34 35 36 37 38 39 40 41 42

8P7-053040408

Preparation for mobile telephone with hands-free system

⇒ for South America, Central America equipment (9W5) only
from May 2008

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

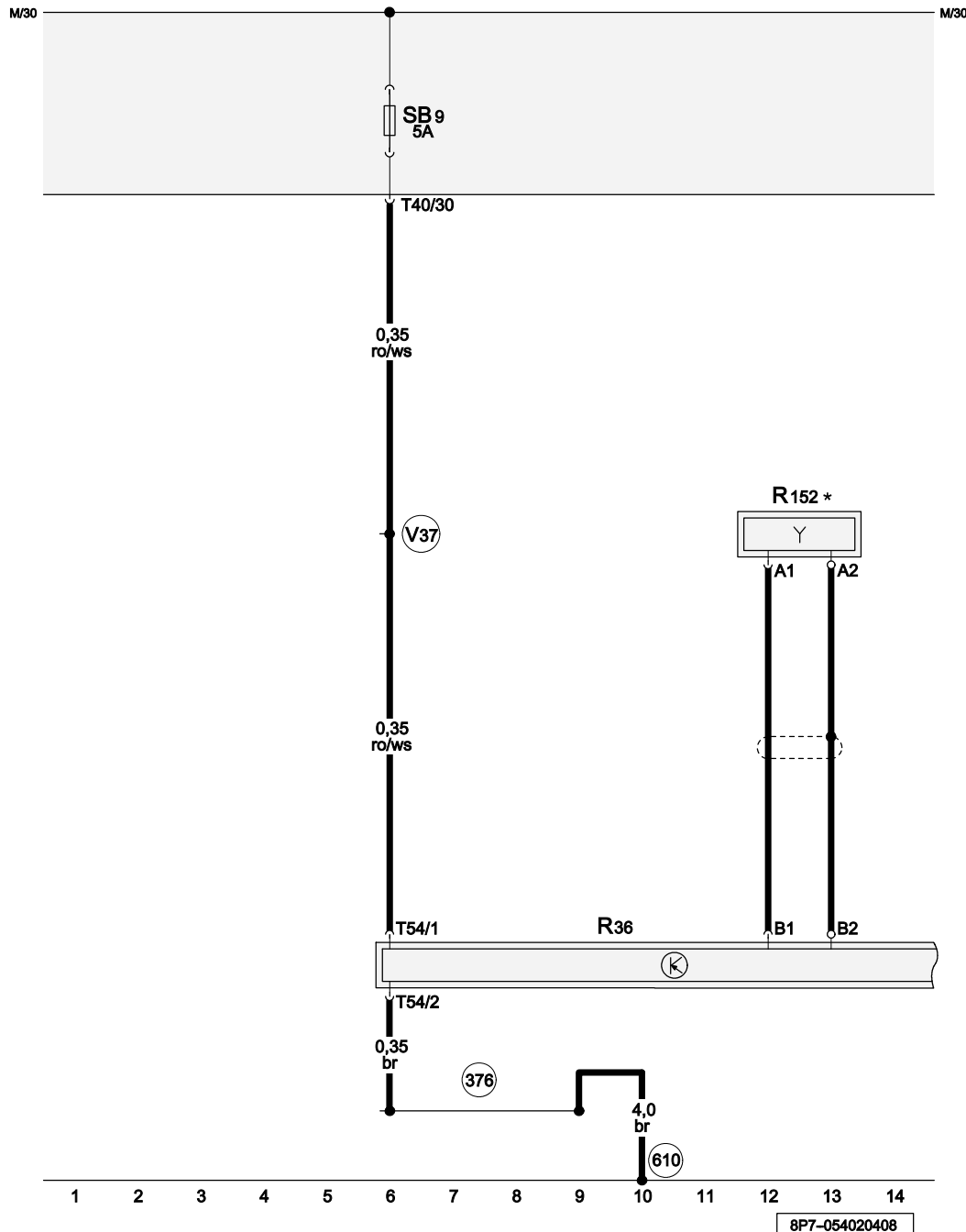
- ◆ Fault Finding Programs

⇒ guided fault finding



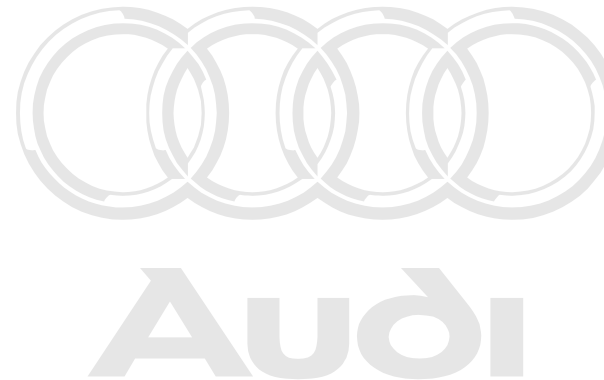
Audi

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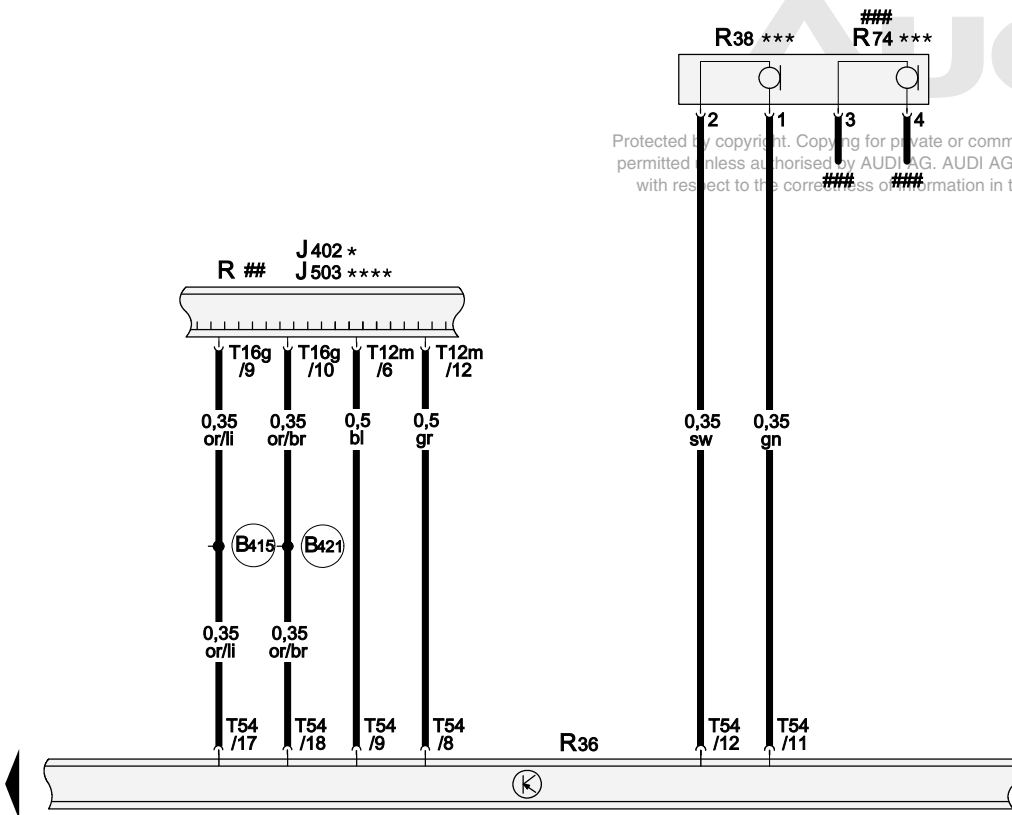
Aerial for Bluetooth, aerial for Bluetooth

- R36 Telephone transmitter and receiver unit
- R152 Aerial for Bluetooth
- SB9 Fuse 9 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T54 54-pin connector, black (connector A)
- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), under centre console, front
- V37 Positive connection (30), in communication wiring harness
- * for models with aerial for Bluetooth only



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Telephone microphone, internal microphone

- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation system
- R Radio
- R36 Telephone transmitter and receiver unit
- R38 Telephone microphone
- R74 Internal microphone
- T12m 12-pin connector, black (connector C, connector locking green)
- T16g 16-pin connector, black (connector D)
- T54 54-pin connector, black (connector A)

- B415 Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421 Connection 1 (infotainment CAN bus, low), in main wiring harness

- * for models with radio navigation system RNS-E only
- *** for models without voice control only
- **** for models with radio navigation system RNS-low only
- ## for models with radiogeneration II plus only
- ### for models with Bose sound system only

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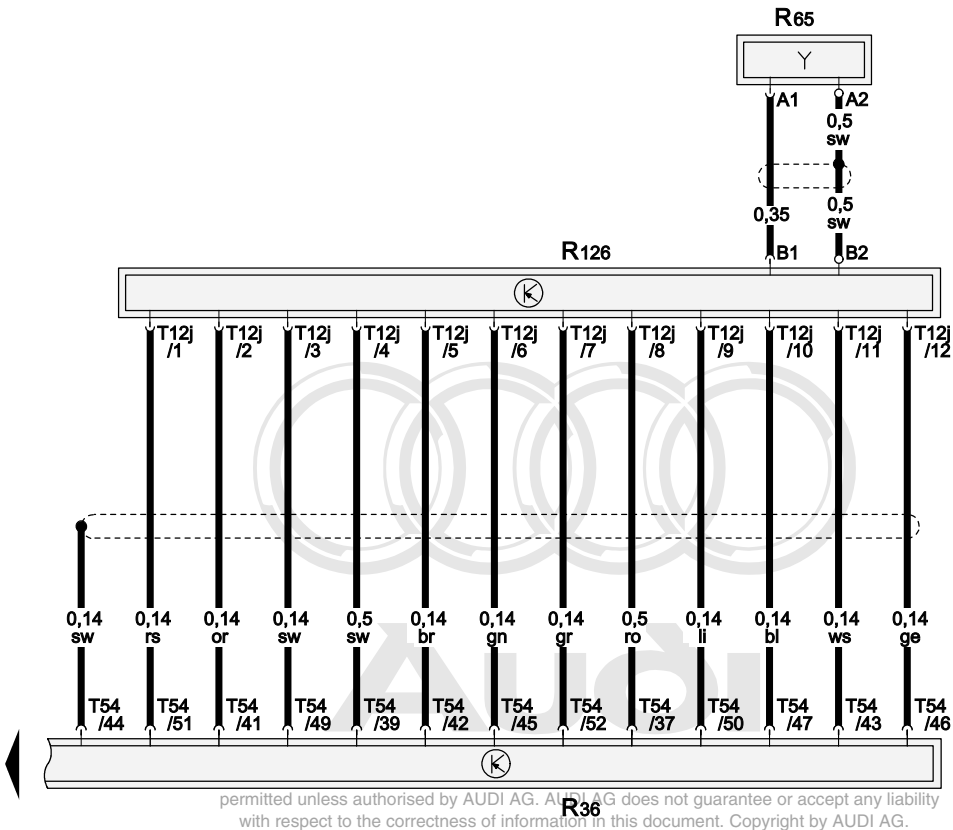
8P7-054031008

M/30

M/30

Telephone bracket

- R36 Telephone transmitter and receiver unit
- R65 Telephone aerial
- R126 Telephone bracket
- T12j 12-pin connector, brown (connector A)
- T54 54-pin connector, black (connector A)



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8P7-054040408



Trailer operation

from May 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

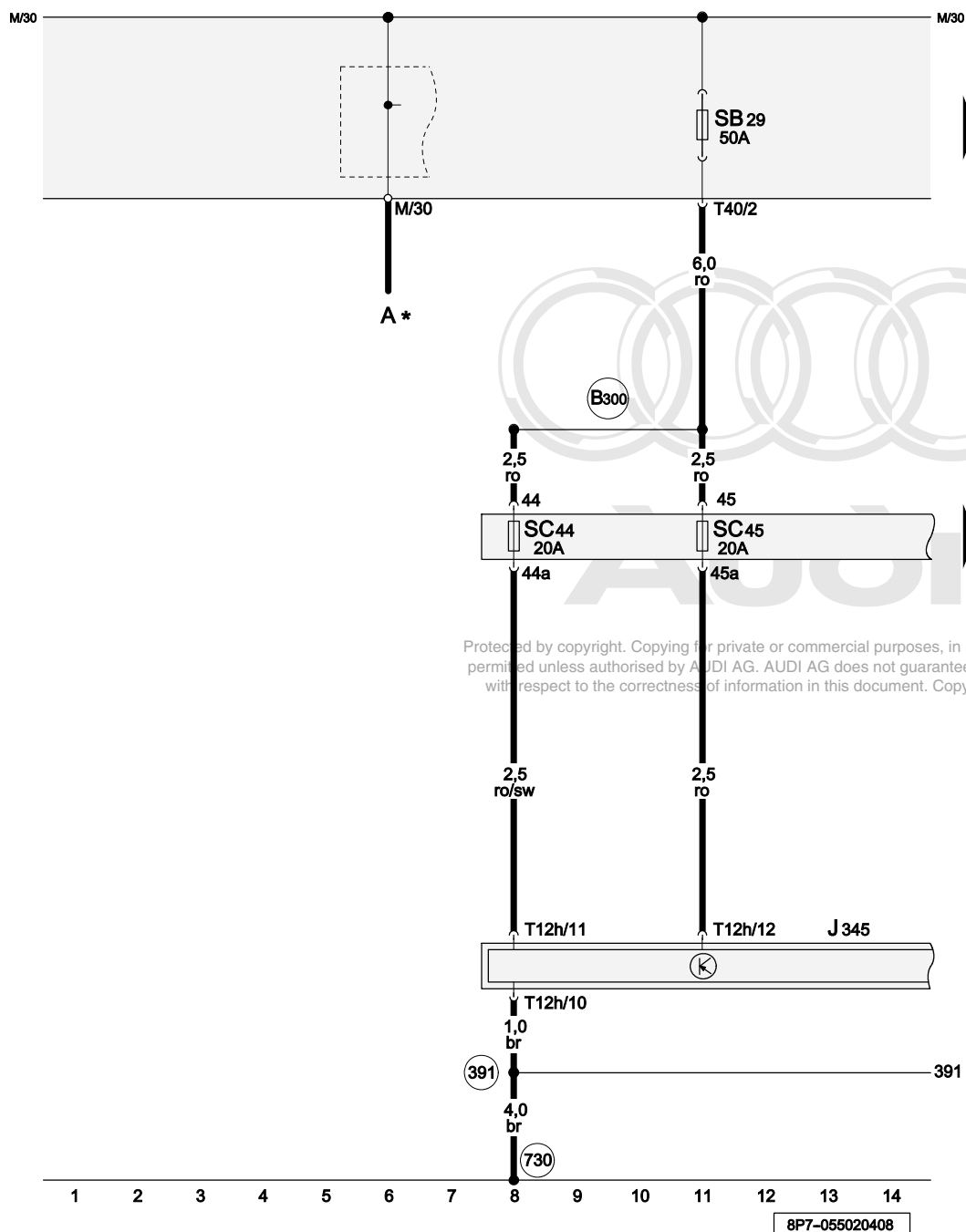
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses, trailer detector control unit

- A Battery
- J345 Trailer detector control unit
- SB29 Fuse 29 on fuse holder B
- SC44 Fuse 44 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- T12h 12-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

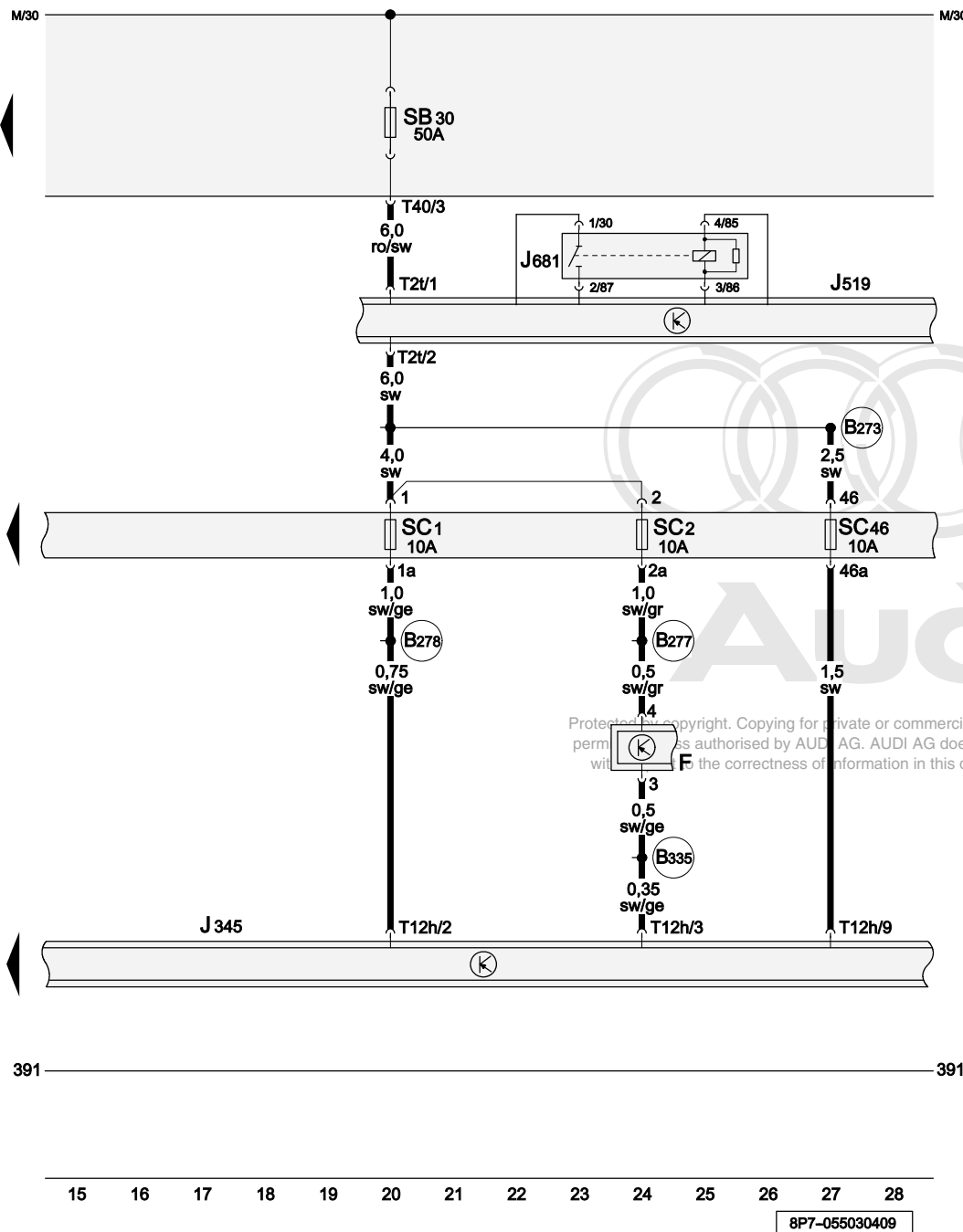
391 Earth connection 26, in main wiring harness

730 Earth point 1 on rear right wheel housing

B300 Positive connection 4 (30), in main wiring harness

* ⇒ applicable Current Flow Diagram for models with battery in engine compartment

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gn = green
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or = orange
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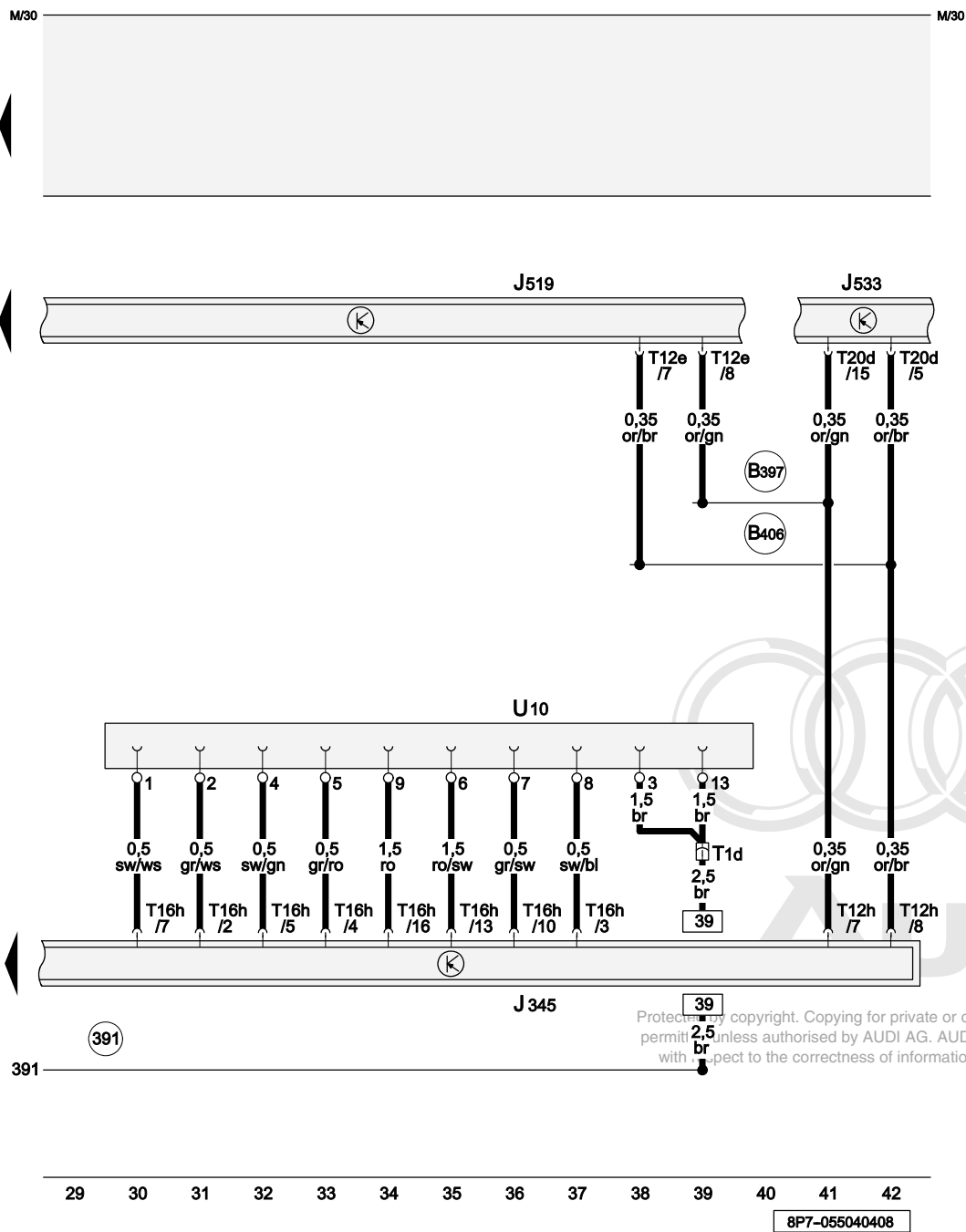


Fuses, trailer detector control unit

- F Brake light switch
- J345 Trailer detector control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- SC46 Fuse 46 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T12h 12-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- (B273) Positive connection (15), in main wiring harness
- (B277) Positive connection 1 (15a), in main wiring harness
- (B278) Positive connection 2 (15a), in main wiring harness
- (B335) Connection 1 (54), in main wiring harness

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Trailer detector control unit, trailer socket

- J345 Trailer detector control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- T1d Single connector, black, near trailer socket
- T12e 12-pin connector, black (connector G)
- T12h 12-pin connector, red (connector B)
- T16h 16-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)
- U10 Trailer socket

- 391 Earth connection 26, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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Radiator fan control 340 W, 520 W

from May 2008

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

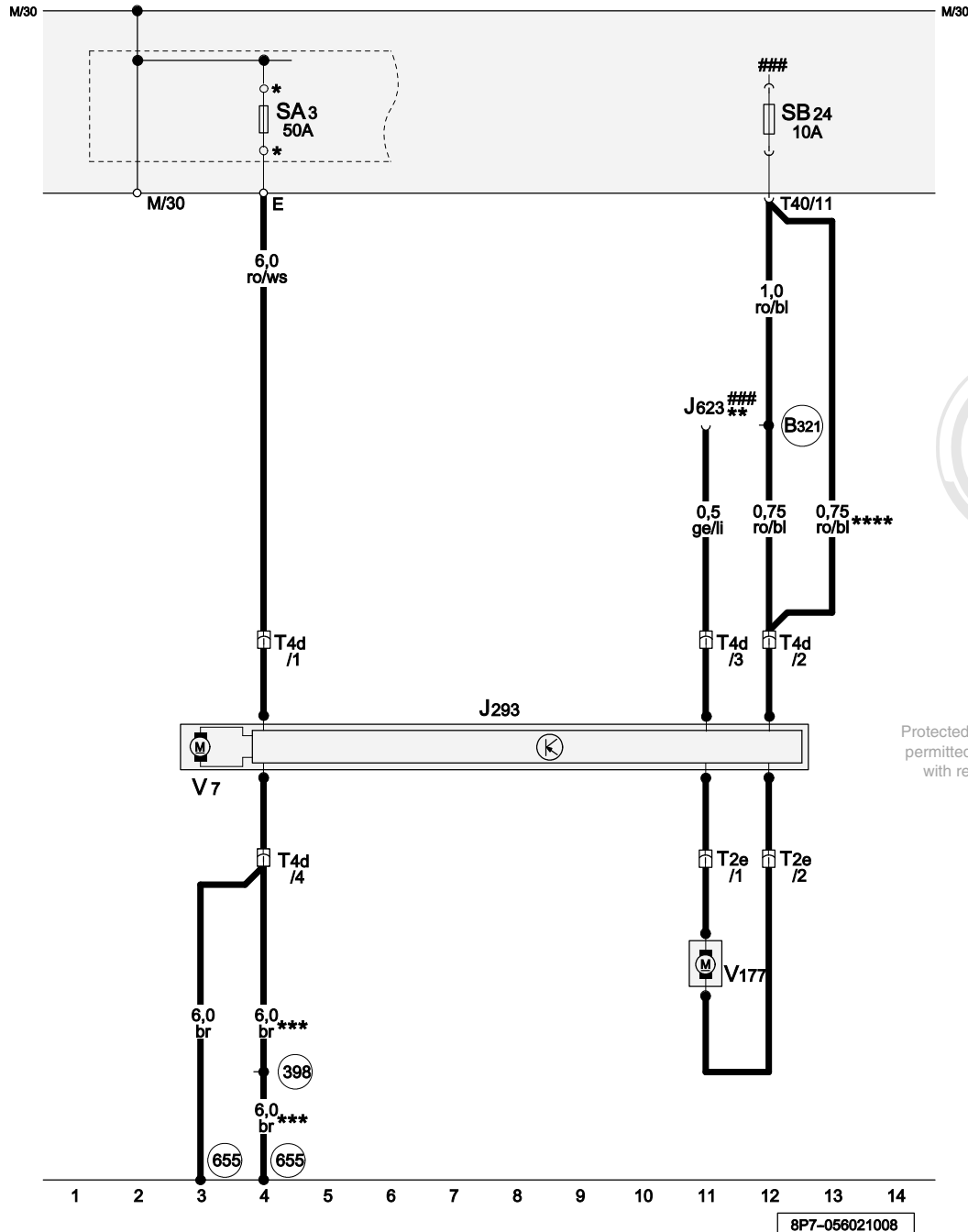
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Radiator fan, radiator fan 2

- J293 Radiator fan control unit
- SA3 Fuse 3 on fuse holder A
- SB24 Fuse 24 on fuse holder B
- T2e 2-pin connector, black, on radiator fan (front end)
- T4d 4-pin connector, black, on radiator fan (front end)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- V7 Radiator fan
- V177 Radiator fan 2

398 Earth connection 33, in main wiring harness

655 Earth point, on left headlight

B321 Positive connection 7 (30a), in main wiring harness

- * Screw connection, is dropped from November 2008
- ** J220, J363 or J248 is replaced by J623, phased-in modification
- *** for models with exhaust concept EU4 and engine codes BSE only
- **** for models with engine code BLS only
- ### => applicable engine Current Flow Diagram

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7-speed direct shift gearbox 0AM (S tronic)

from March 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

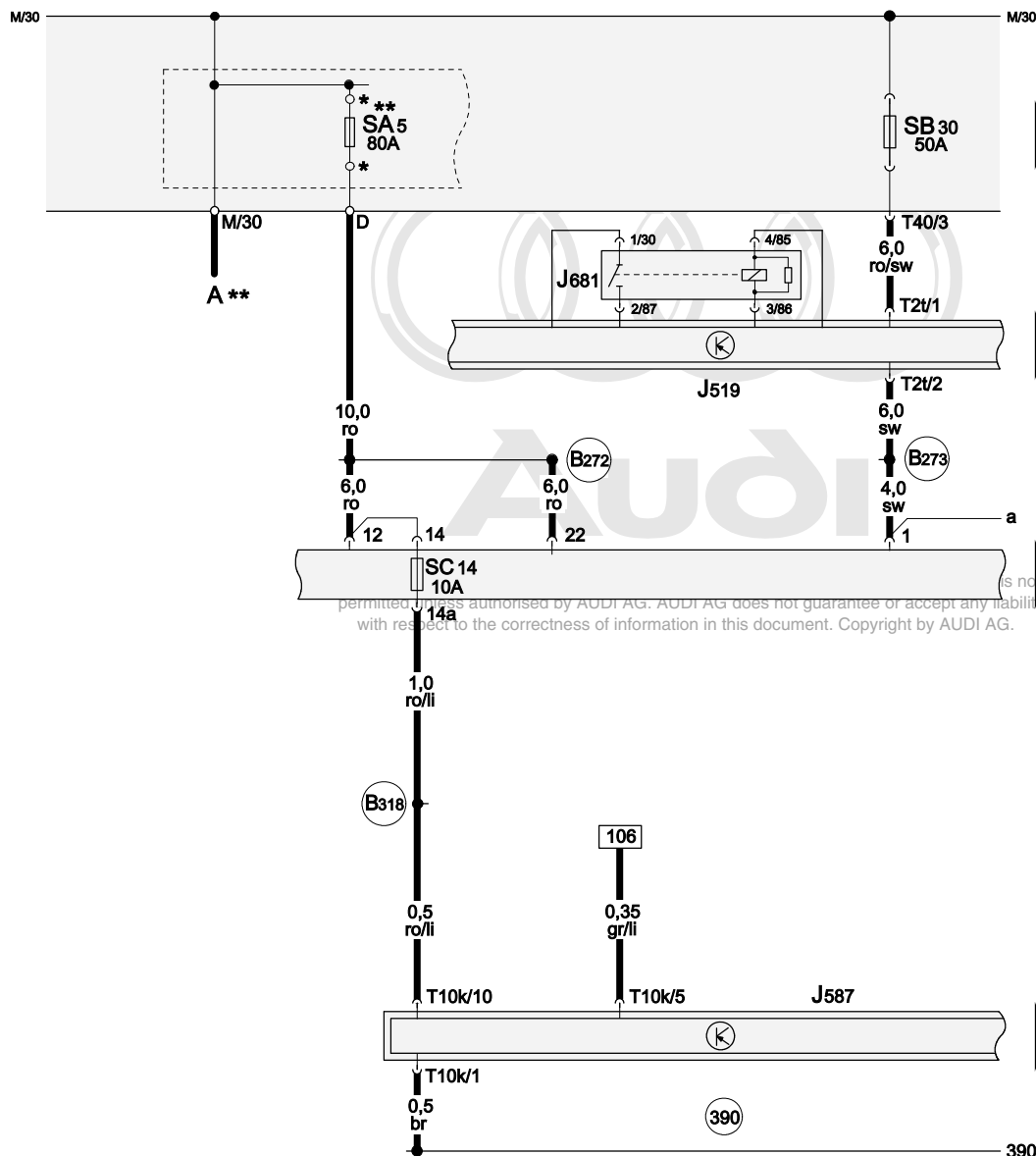
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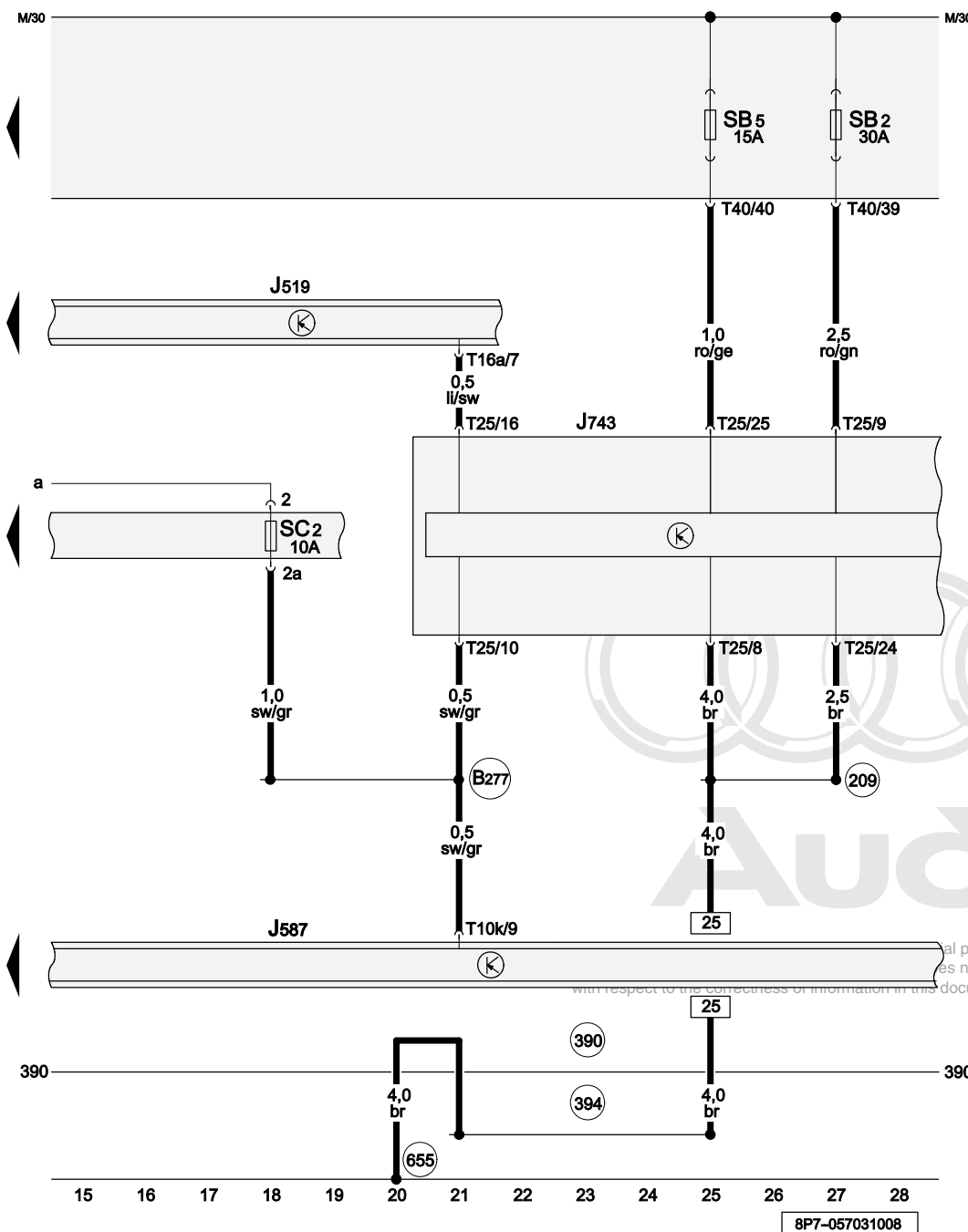


Electronics box supply, fuse on fuse holder

- A Battery
- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J681 Terminal 15 voltage supply relay 2
- SA5 Fuse 5 on fuse holder A
- SB30 Fuse 30 on fuse holder B
- SC14 Fuse 14 on fuse holder C
- T2t 2-pin connector, black (connector L)
- T10k 10-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 390 Earth connection 25, in main wiring harness
- B272 Positive connection (30), in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B318 Positive connection 4 (30a), in main wiring harness

- * Screw connection, is dropped from November 2008
- ** ⇒ applicable Current Flow Diagram for models with battery in engine compartment

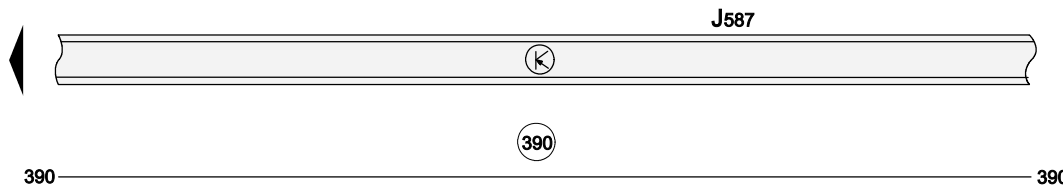
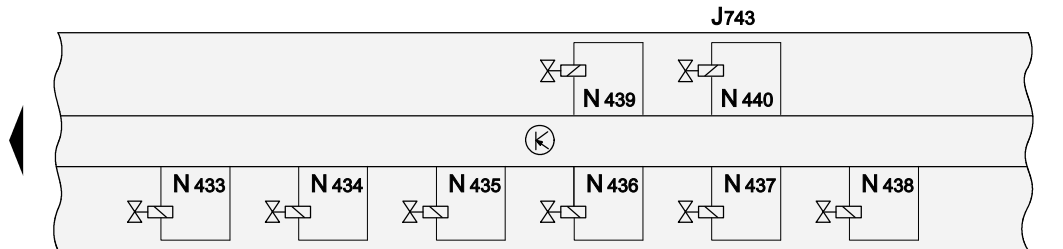


Voltage supply mechatronic unit for direct shift gearbox, selector lever sensors control unit

- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- SB2 Fuse 2 on fuse holder B
- SB5 Fuse 5 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- T10k 10-pin connector, black (connector A)
- T16a 16-pin connector, black (connector E)
- T25 25-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 209 Earth connection 6, in engine compartment wiring harness
- 390 Earth connection 25, in main wiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- B277 Positive connection 1 (15a), in main wiring harness

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Solenoid valves

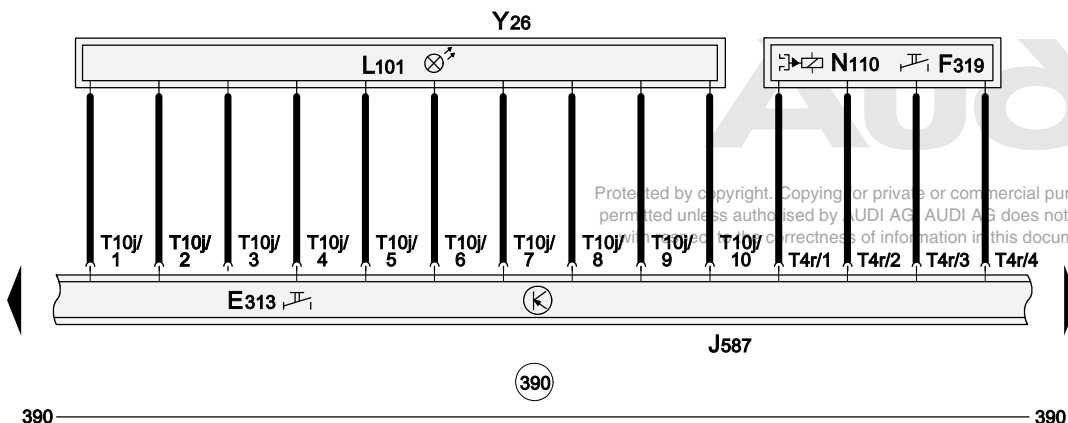
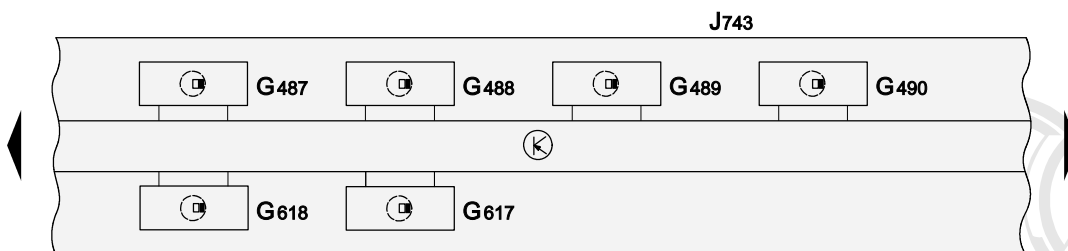
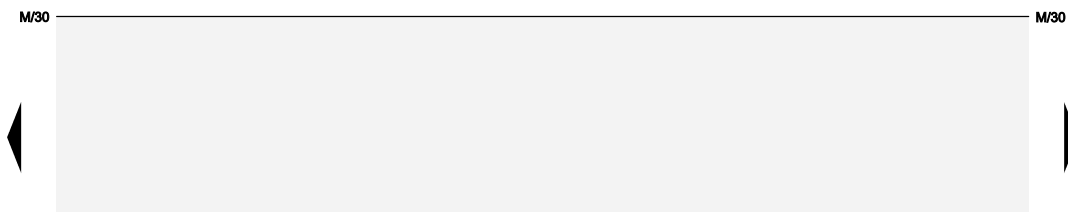
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- N433 Valve 1 in sub gearbox 1
- N434 Valve 2 in sub gearbox 1
- N435 Valve 3 in sub gearbox 1
- N436 Valve 4 in sub gearbox 1
- N437 Valve 1 in sub gearbox 2
- N438 Valve 2 in sub gearbox 2
- N439 Valve 3 in sub gearbox 2
- N440 Valve 4 in sub gearbox 2

390 Earth connection 25, in main wiring harness



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43 44 45 46 47 48 49 50 51 52 53 54 55 56
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Selector lever position display, selector lever locked in position P switch, clutch travel sender, gear selector movement sensor

- E313 Selector lever
- F319 Selector lever locked in position P switch
- G487 Gear selector movement sensor 1
- G488 Gear selector movement sensor 2
- G489 Gear selector movement sensor 3
- G490 Gear selector movement sensor 4
- G617 Clutch travel sender 1
- G618 Clutch travel sender 2
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- L101 Selector lever display illumination bulb
- N110 Selector lever lock solenoid
- T4r 4-pin connector, on selector lever
- T10j 10-pin connector, black, on selector lever
- Y26 Selector lever position display

390 Earth connection 25, in main wiring harness

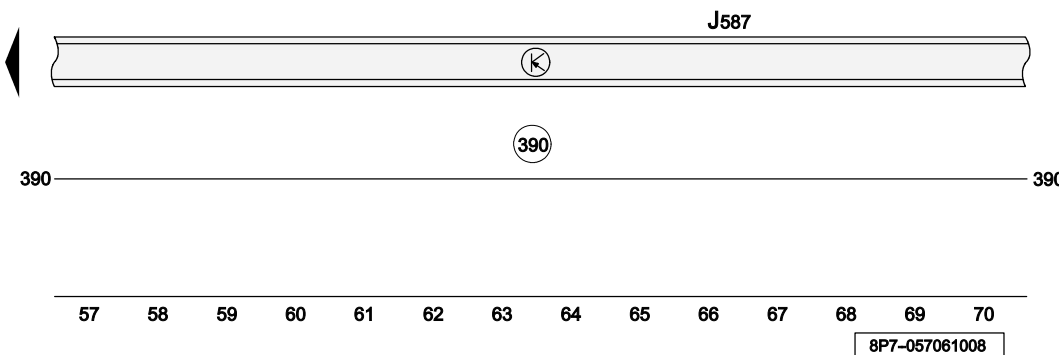
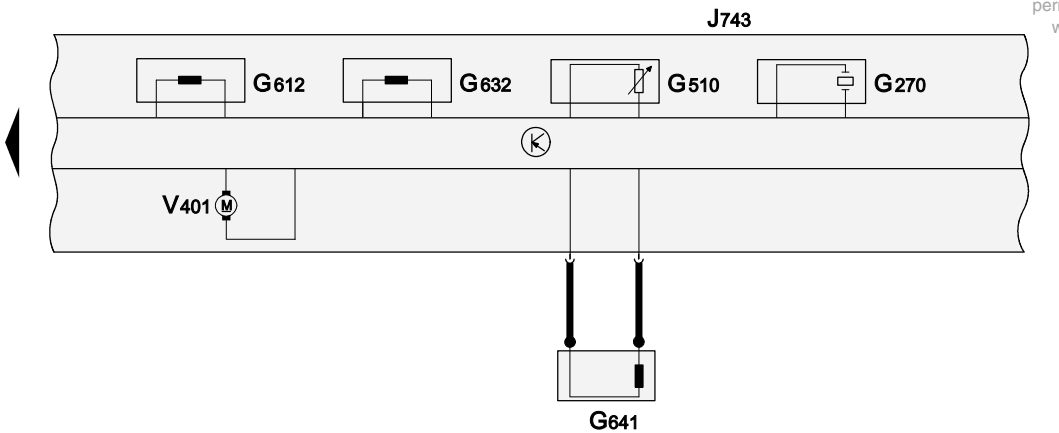
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Gearbox hydraulic pressure sender, temperature sender in control unit, gearbox input speed sender, input shaft speed sender 1, hydraulic pump motor

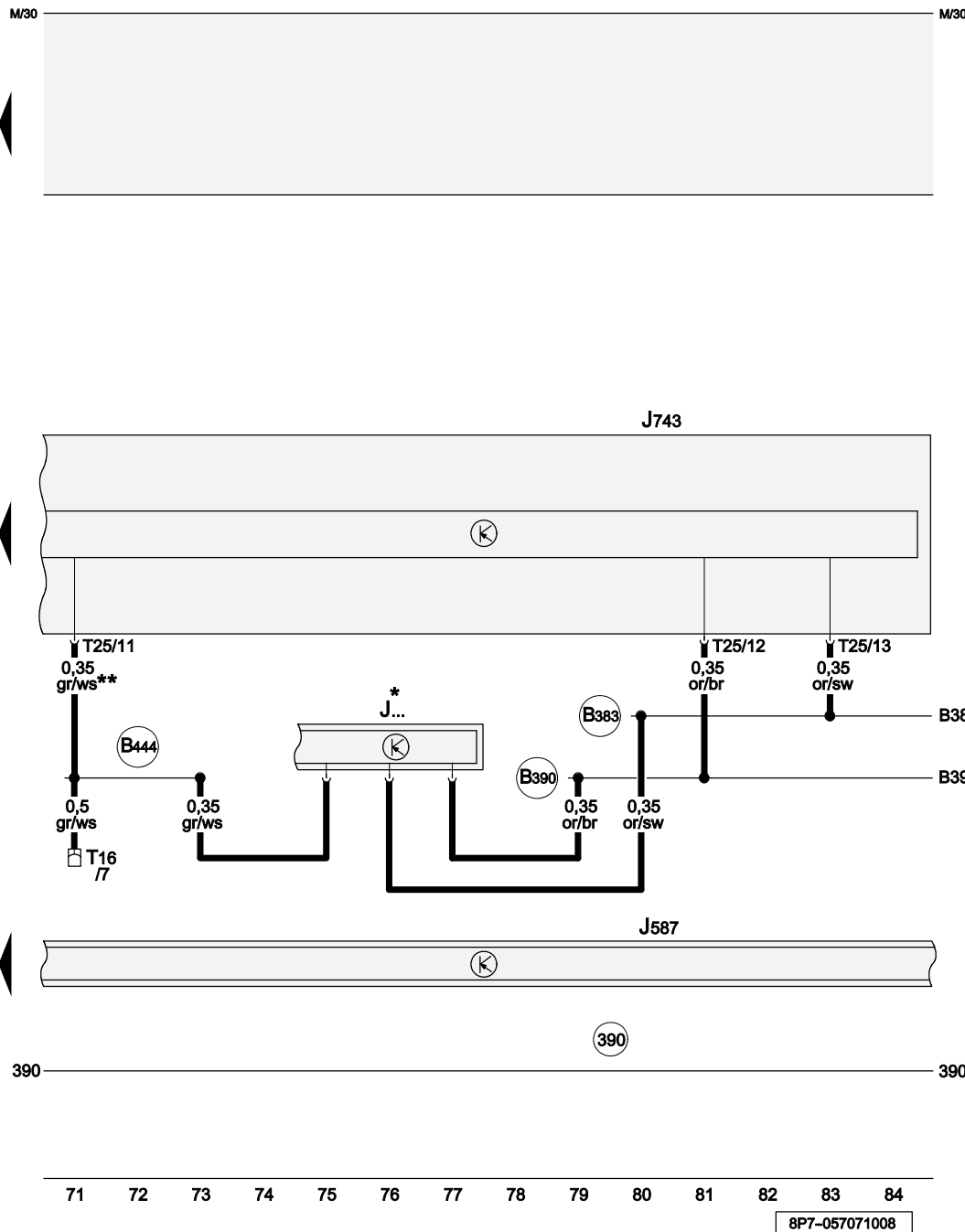
- G270 Gearbox hydraulic pressure sender
- G510 Temperature sender in control unit
- G612 Gearbox input speed sender 2
- G632 Input shaft speed sender 1
- G641 Gearbox input speed sender 3
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- V401 Hydraulic pump motor
- 390 Earth connection 25, in main wiring harness

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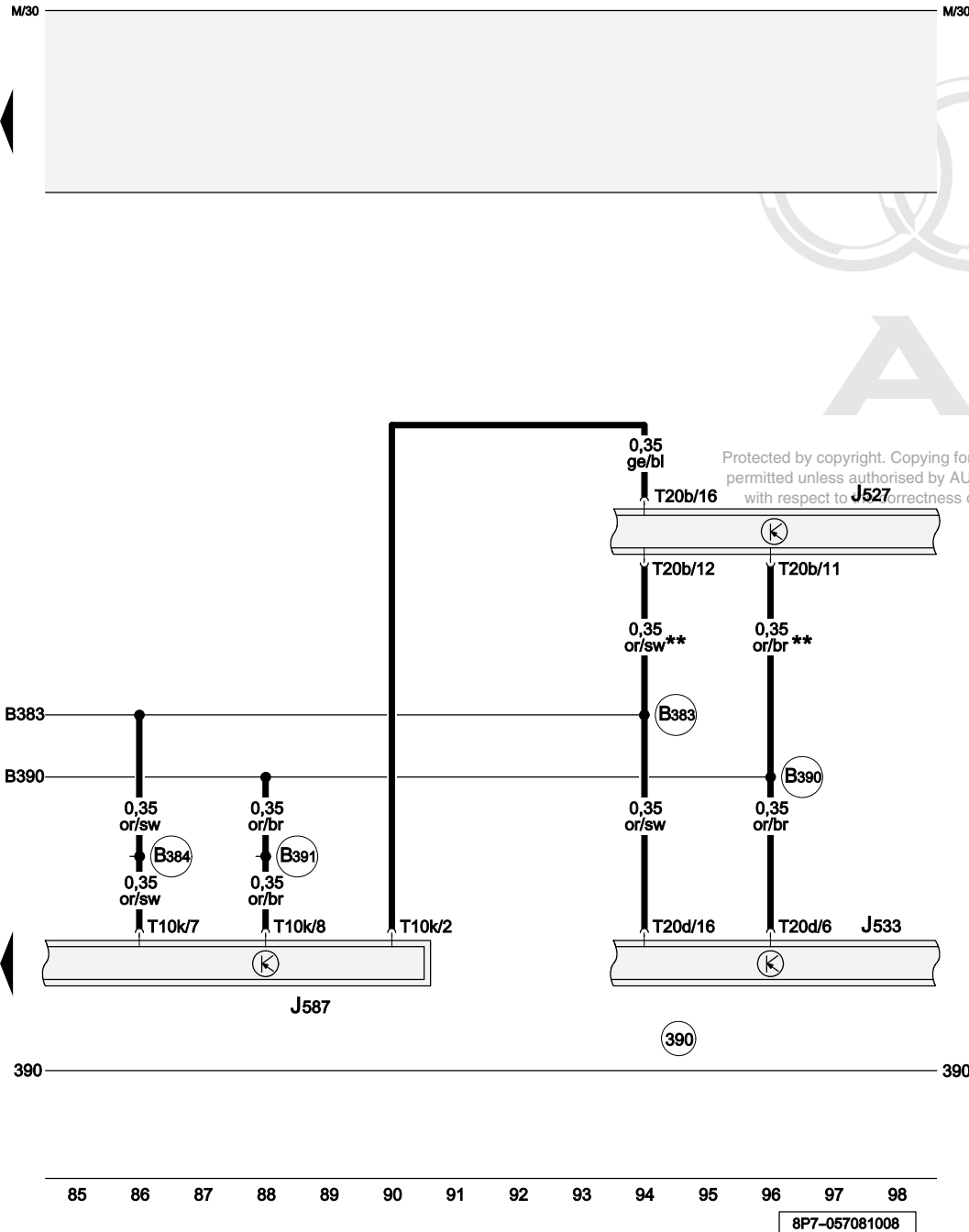


CAN bus drive train, diagnostic connector

- J... Engine control units
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for direct shift gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T25 25-pin connector, black (connector A)
- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness

* ⇒ applicable engine Current Flow Diagram
 ** for models with diagnosis connection only

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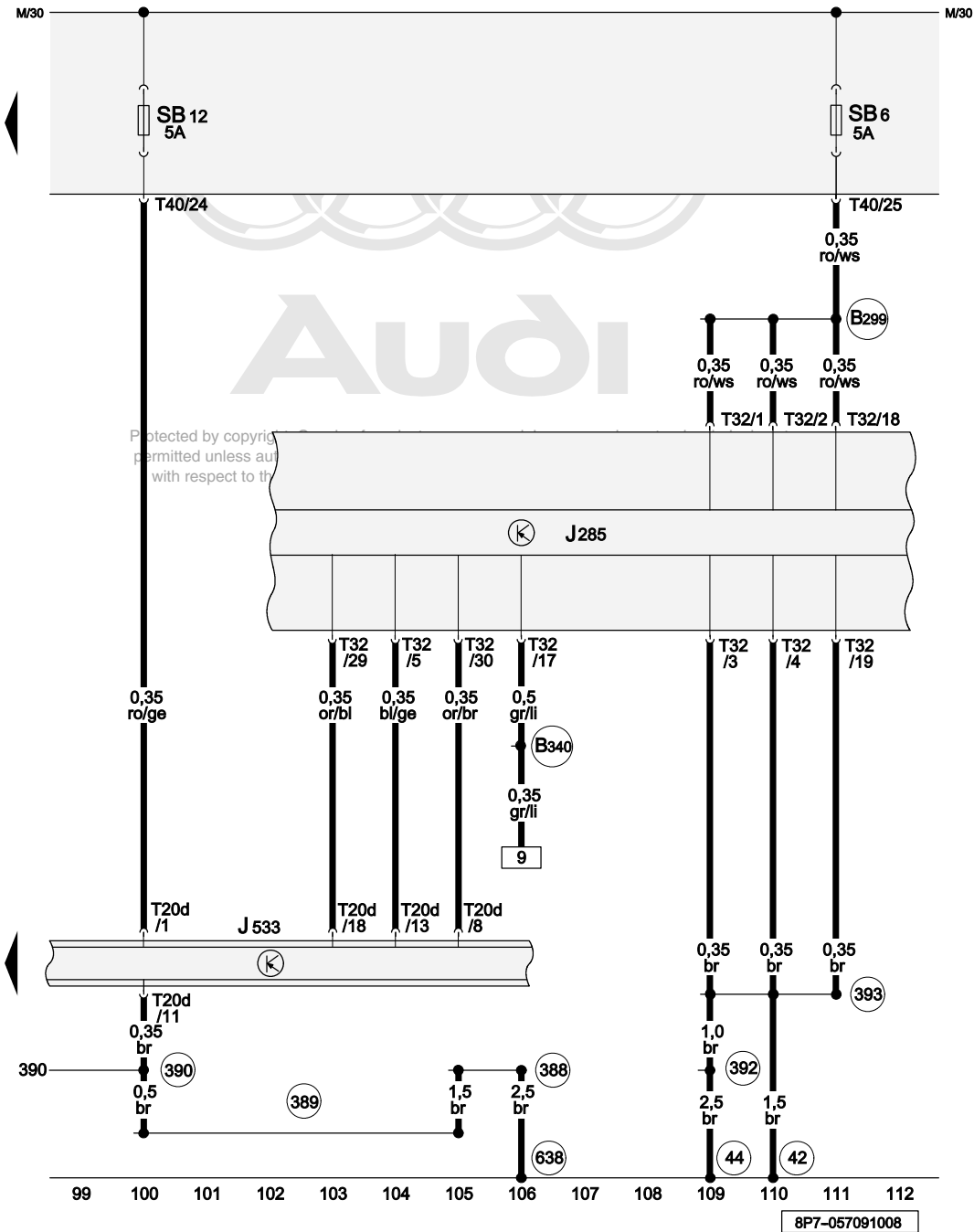


Drive train CAN bus

- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- J587 Selector lever sensors control unit
- T10k 10-pin connector, black (connector A)
- T20b 20-pin connector, black (connector A)
- T20d 20-pin connector, yellow (connector A)
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness

** for models with CAN bus drive train only

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Data bus diagnostic interface, control unit in dash panel insert

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- 638 Earth point, right A-pillar
- B299 Positive connection 3 (30), in main wiring harness
- B340 Connection 1 (58d), in main wiring harness

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Basic equipment

From May 2009

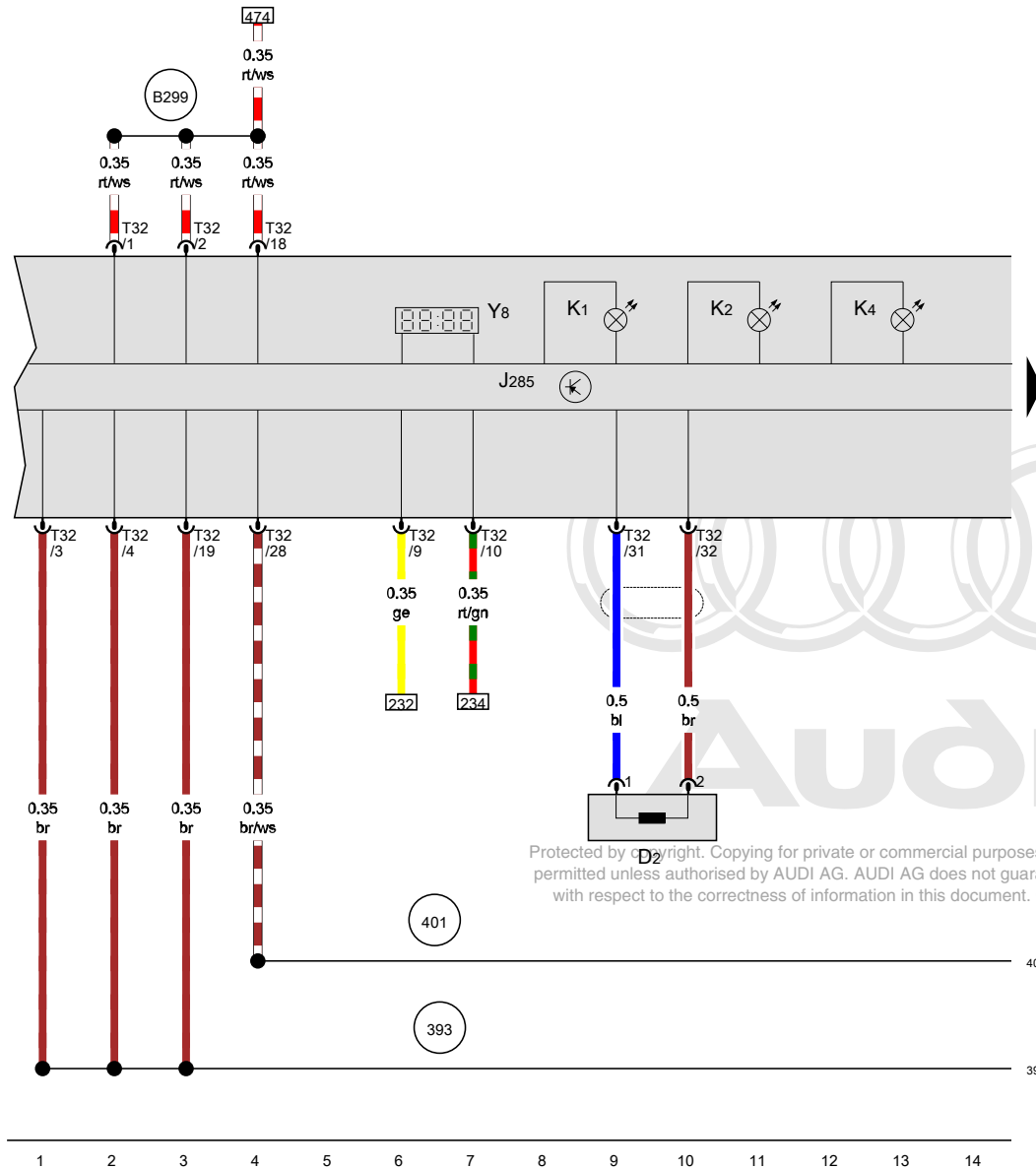


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Immobiliser reader coil, Control unit in dash panel insert

- D2 Immobiliser reader coil
- J285 Control unit in dash panel insert
- K1 Main beam warning lamp
- K2 Alternator warning lamp
- K4 Side light warning lamp
- T32 32-pin connector
- Y8 Radio controlled clock

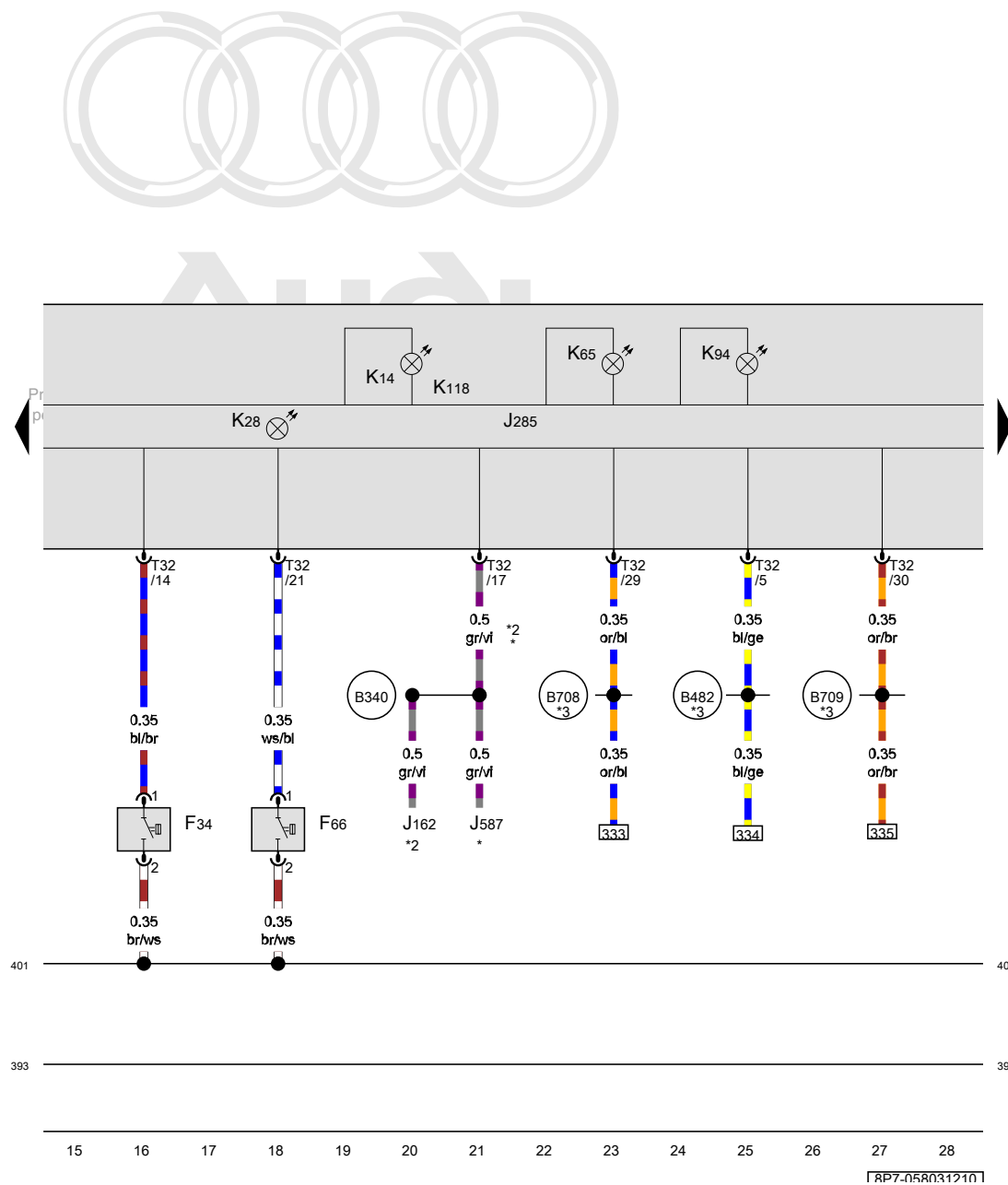
- 393 Earth connection 28, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- B299 Positive connection 3 (30), in main wiring harness



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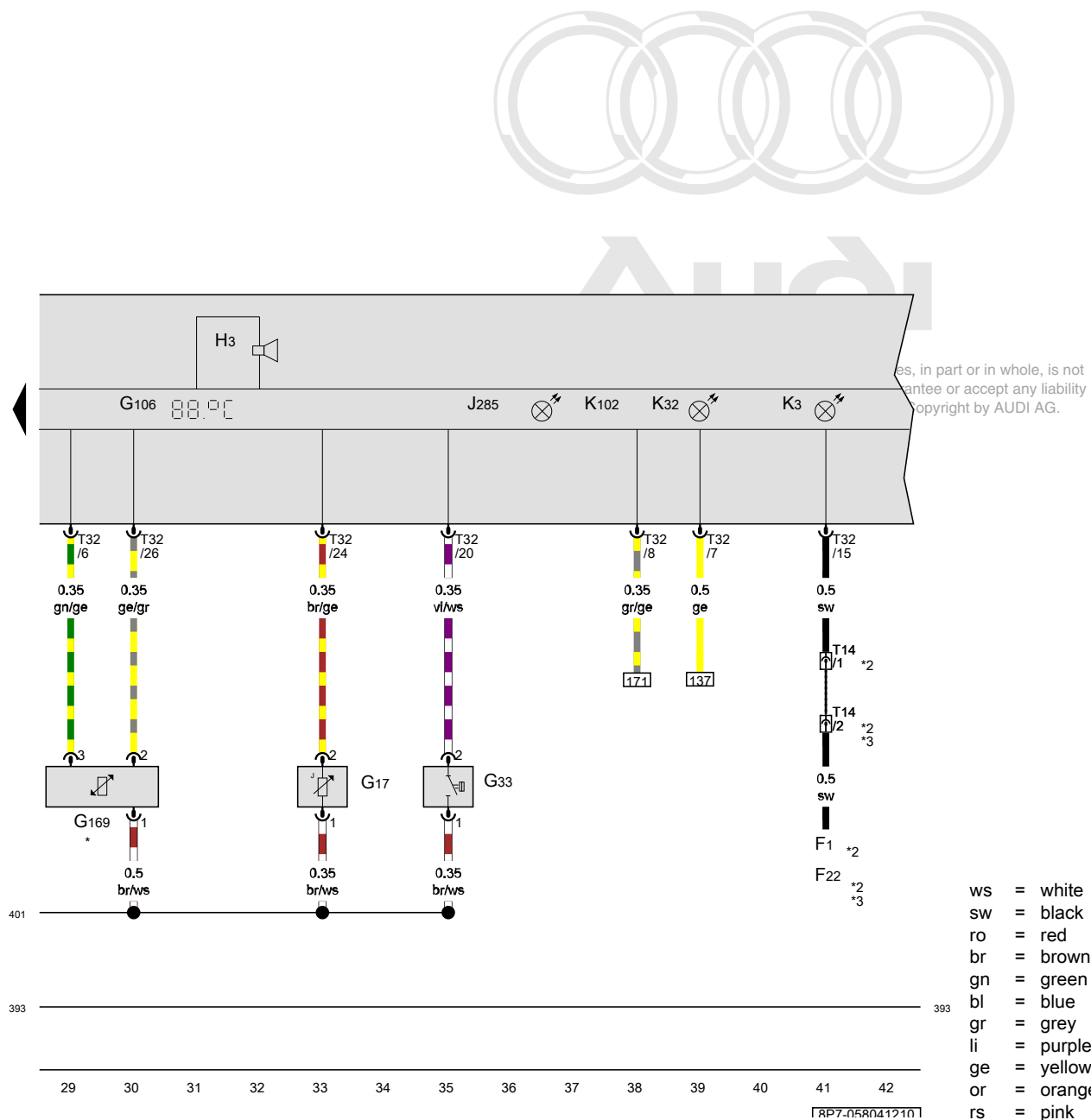


Brake fluid level warning contact, Coolant shortage indicator switch, Control unit in dash panel insert

- F34 Brake fluid level warning contact
- F66 Coolant shortage indicator switch
- J162 Heater control unit
- J285 Control unit in dash panel insert
- J587 Selector lever sensors control unit
- K14 Handbrake warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K65 Left turn signal warning lamp
- K94 Right turn signal warning lamp
- K118 Brake system warning lamp
- T32 32-pin connector

- 393 Earth connection 28, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- B340 Connection 1 (58d), in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness

- * see applicable current flow diagram for automatic gearbox
- *2 see applicable current flow diagram for manually controlled heater
- *3 Gradually discontinued



Oil pressure switch, Ambient temperature sensor,
Windscreen washer fluid level sender, Fuel gauge sender
2, Control unit in dash panel insert

- F1 Oil pressure switch
- F22 Oil pressure switch
- G17 Ambient temperature sensor
- G33 Windscreen washer fluid level sender
- G106 Ambient temperature indicator
- G169 Fuel gauge sender 2
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K32 Brake pad warning lamp
- K102 Rear lid closed warning lamp,
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector

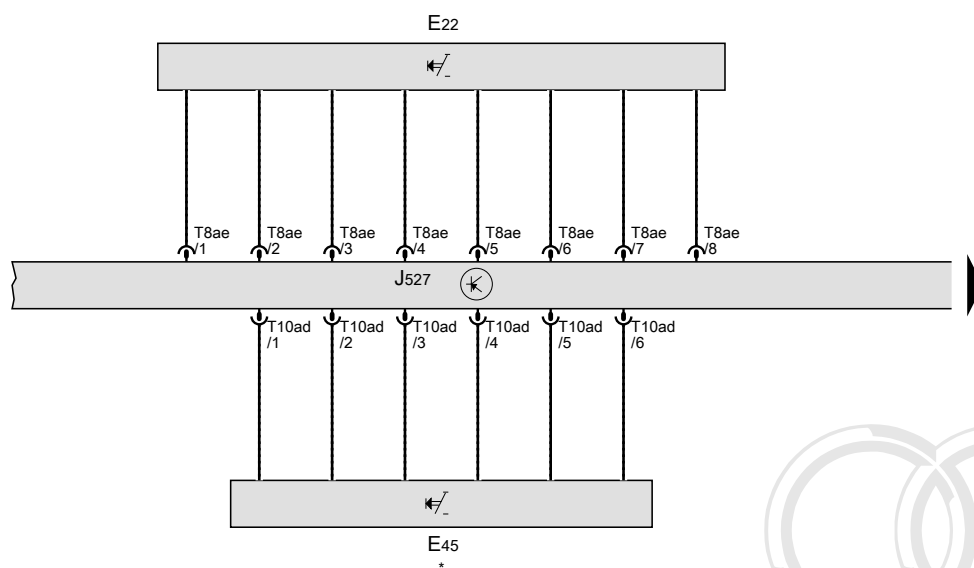
393 Earth connection 28, in main wiring harness

401 Earth connection (sender earth), in interior wiring harness

- * Only models with all-wheel drive
- *2 see applicable current flow diagram for engine
- *3 According to equipment

Intermittent wiper switch, Cruise control system switch,
Steering column electronics control unit

- E22 Intermittent wiper switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- T8ae 8-pin connector
- T10ad 10-pin connector
- 393 Earth connection 28, in main wiring harness
- * Only models with cruise control system (CCS)



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393

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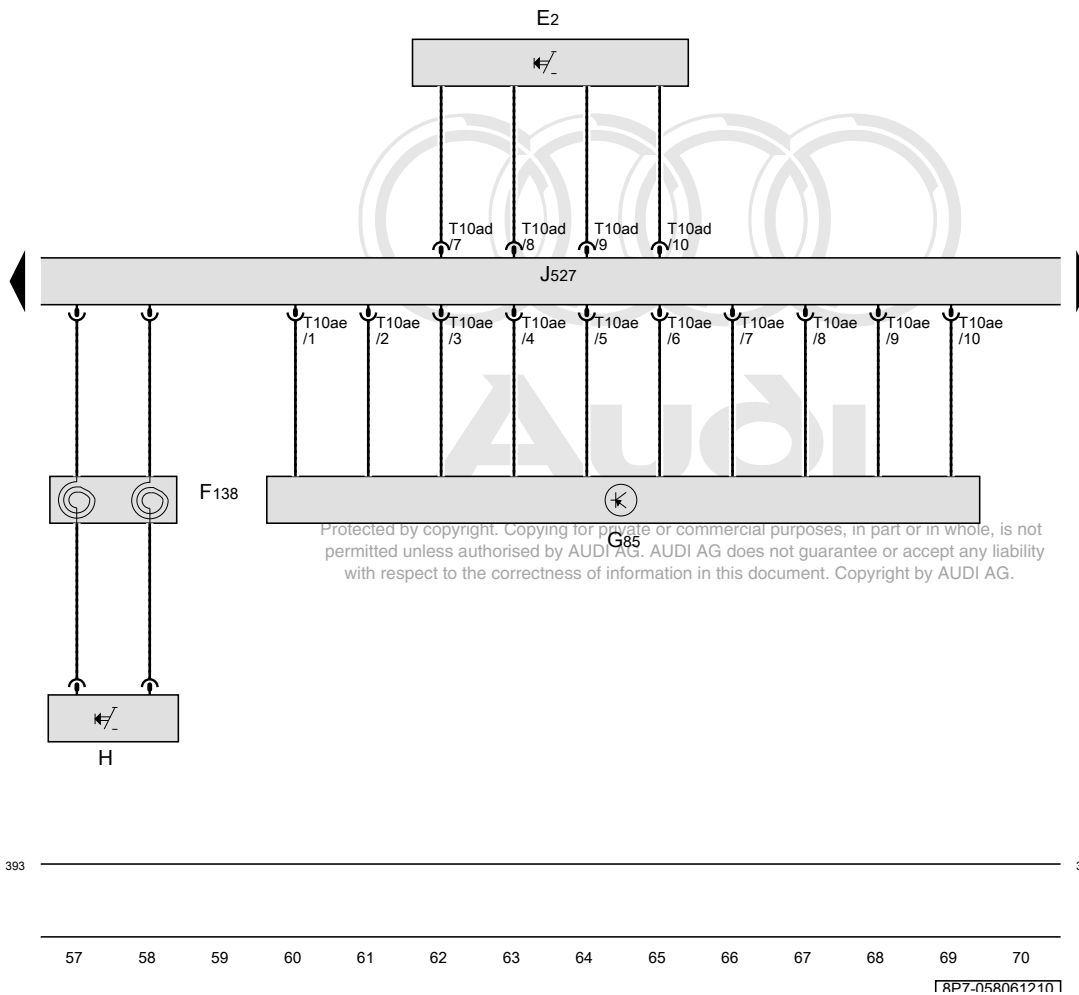
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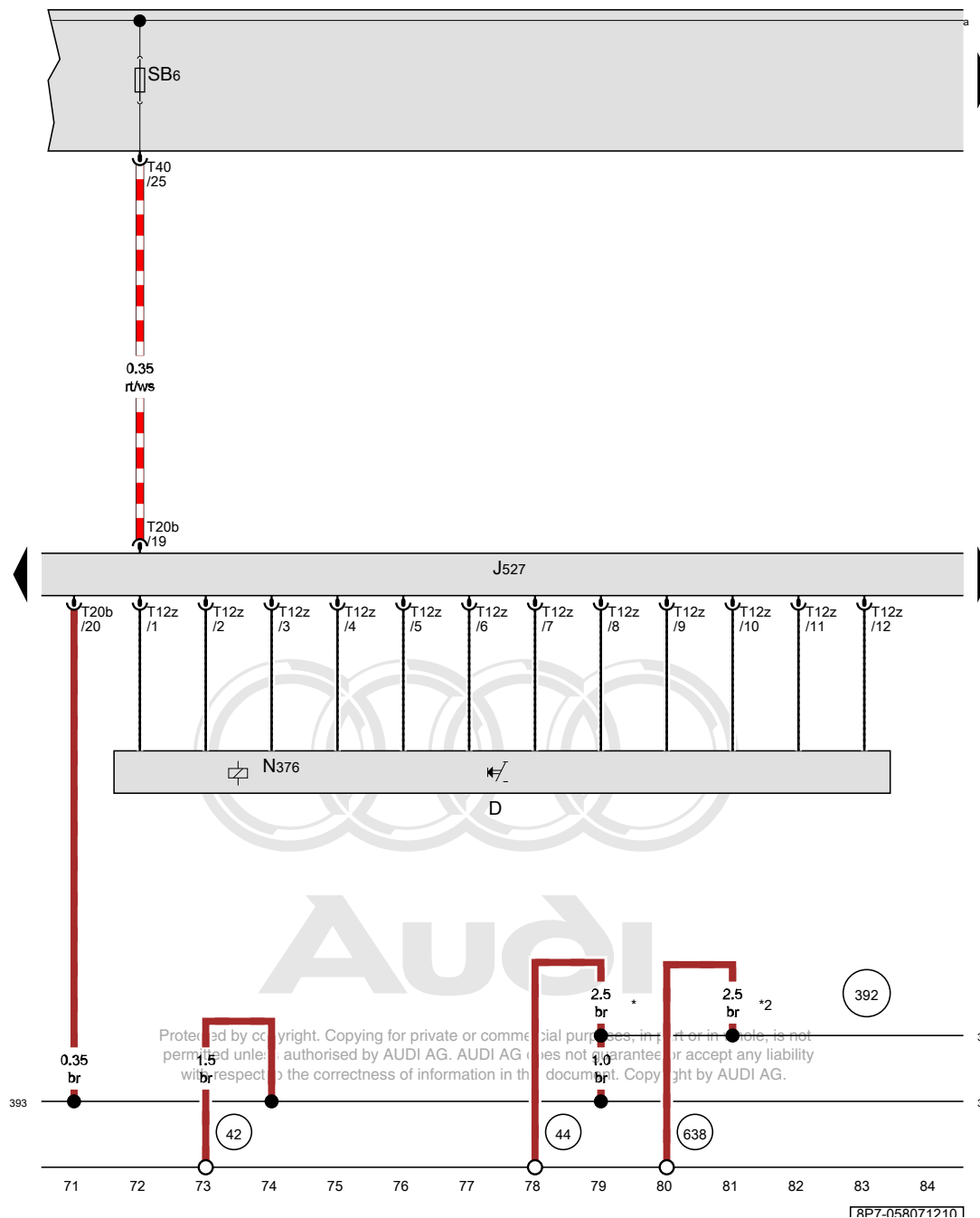
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Turn signal switch, Steering angle sender, Horn plate,
Steering column electronics control unit

- E2 Turn signal switch
- F138 Airbag coil connector and return ring with slip ring
- G85 Steering angle sender
- H Horn plate
- J527 Steering column electronics control unit
- T10ad 10-pin connector
- T10ae 10-pin connector

393 Earth connection 28, in main wiring harness



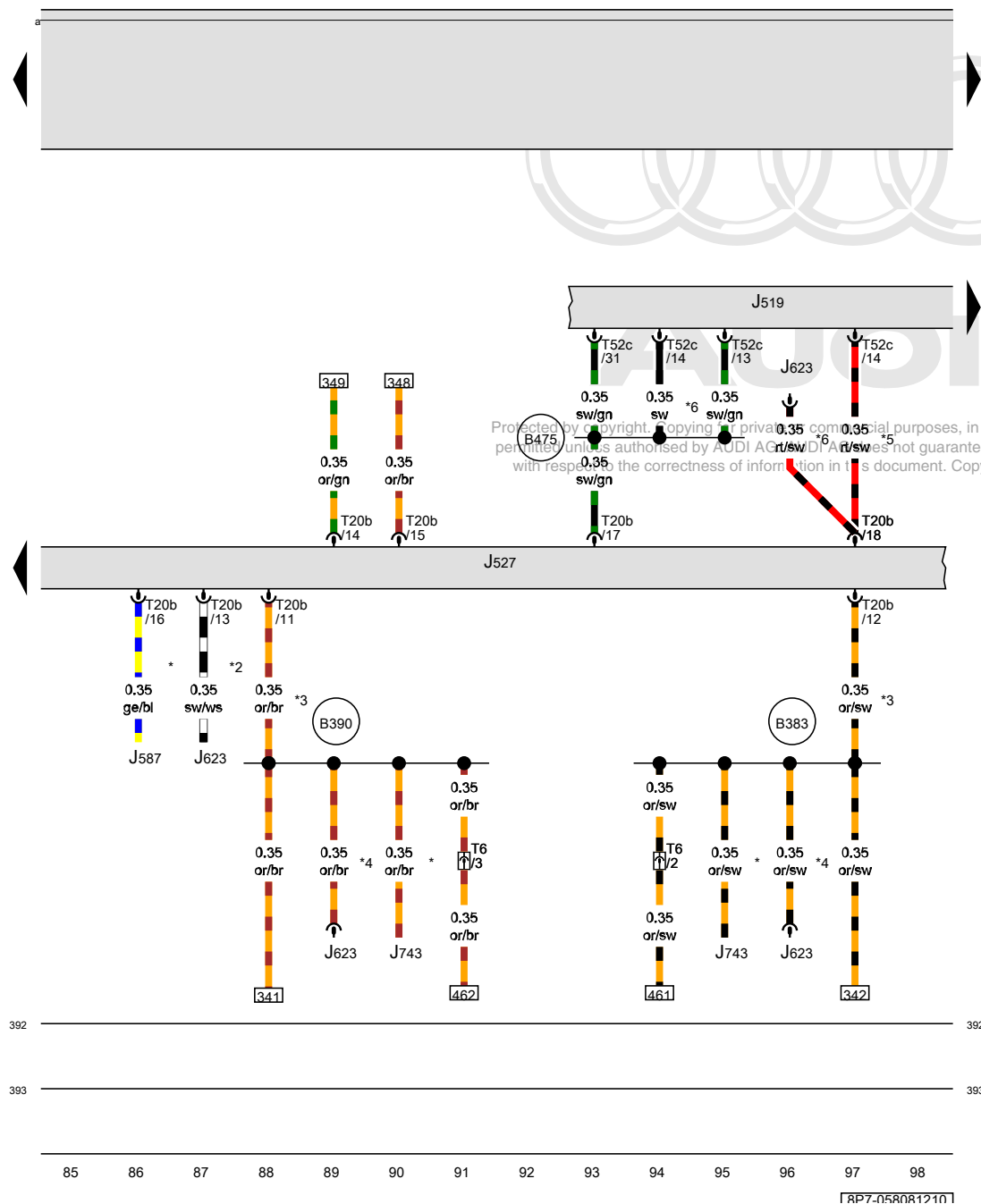


Ignition/starter switch, Steering column electronics control unit

- D Ignition/starter switch
- J527 Steering column electronics control unit
- N376 Ignition key withdrawal lock solenoid
- SB6 Fuse 6 on fuse holder B
- T12z 12-pin connector
- T20b 20-pin connector
- T40 40-pin connector

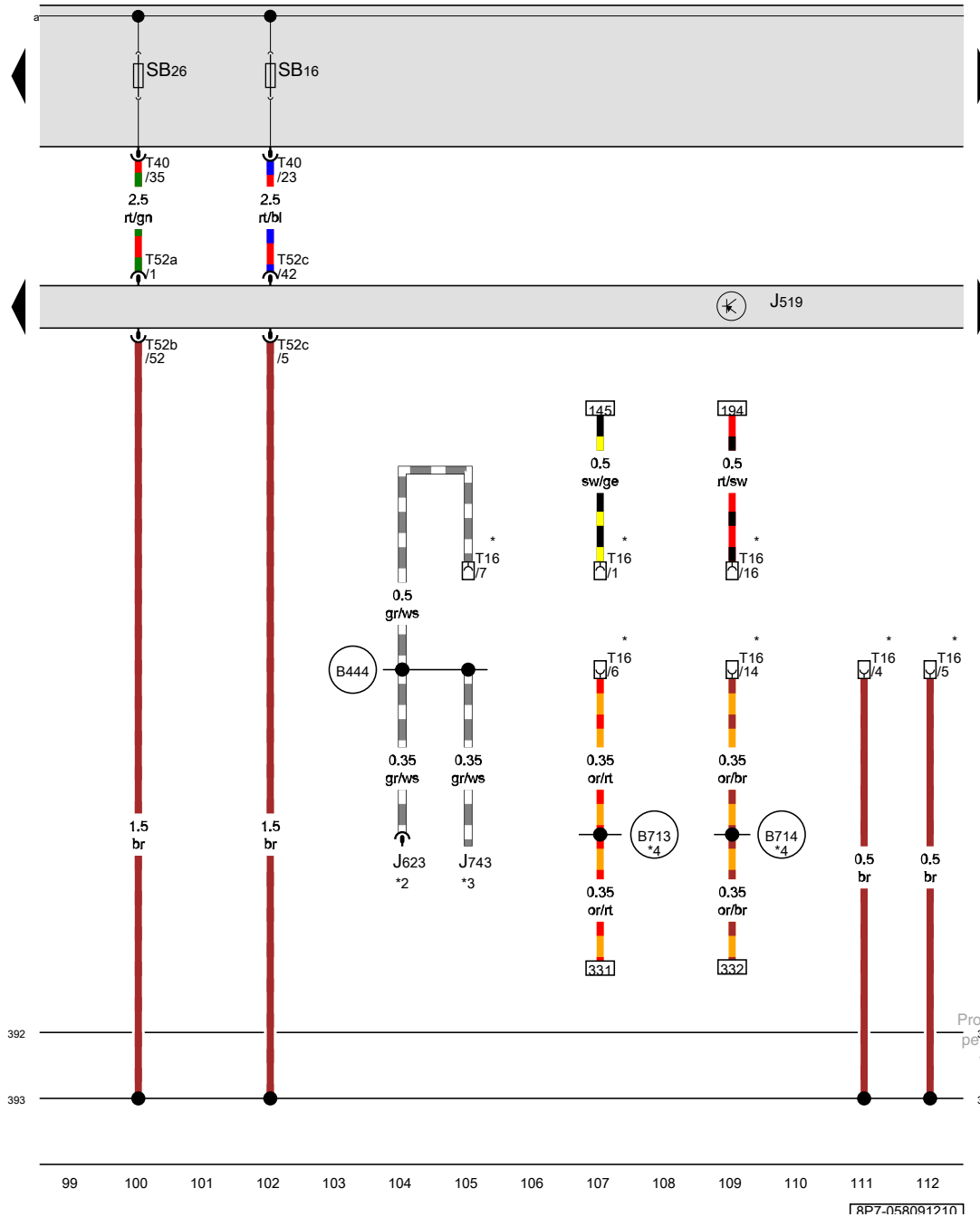
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- 638 Earth point, on right A-pillar
- * Only left-hand drive models
- *2 Only right-hand drive models

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Onboard supply control unit, Steering column electronics control unit

- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J587 Selector lever sensors control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T6 6-pin connector, near front left longitudinal member
- T20b 20-pin connector
- T52c 52-pin connector
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B475 Connection 11, in main wiring harness
- * see applicable current flow diagram for automatic gearbox
- *2 Only models with cruise control system (CCS)
- *3 If fitted
- *4 see applicable current flow diagram for engine
- *5 Only models with no start/stop system
- *6 Only models with start/stop system



Onboard supply control unit

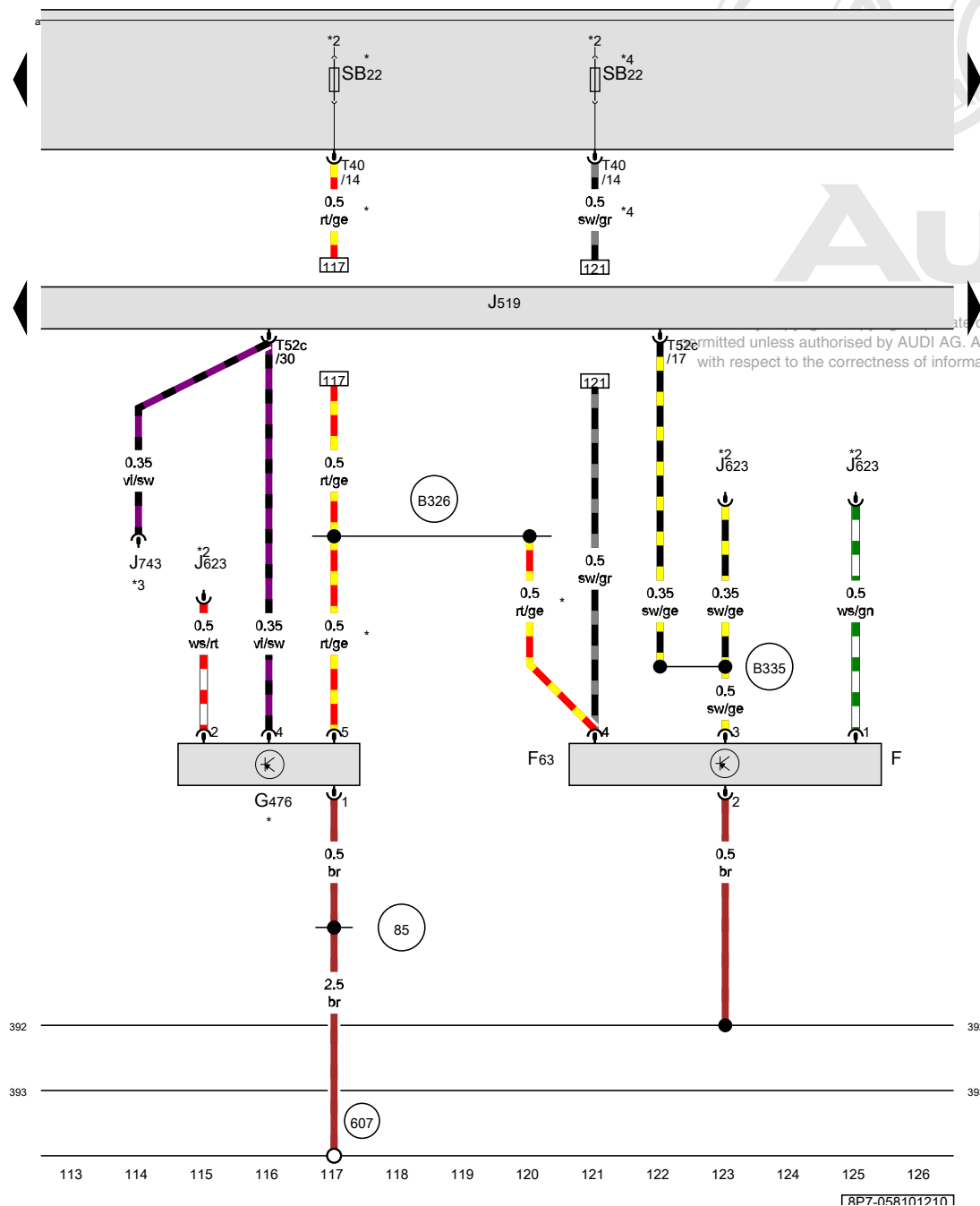
- J519 Onboard supply control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- SB16 Fuse 16 on fuse holder B
- SB26 Fuse 26 on fuse holder B
- T16 16-pin connector
- T40 40-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness
- B713 Connection 1 (CAN bus diagnosis, high), in main wiring harness
- B714 Connection 1 (CAN bus diagnosis, low), in main wiring harness

- * Diagnostic connection
- *2 see applicable current flow diagram for engine
- *3 see applicable current flow diagram for automatic gearbox
- *4 Gradually discontinued

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RP7-05A0912101



Brake light switch, Brake pedal switch, Clutch position sender, Onboard supply control unit

- F Brake light switch
- F63 Brake pedal switch
- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector

85 Earth connection 1, in engine compartment wiring harness

392 Earth connection 27, in main wiring harness

393 Earth connection 28, in main wiring harness

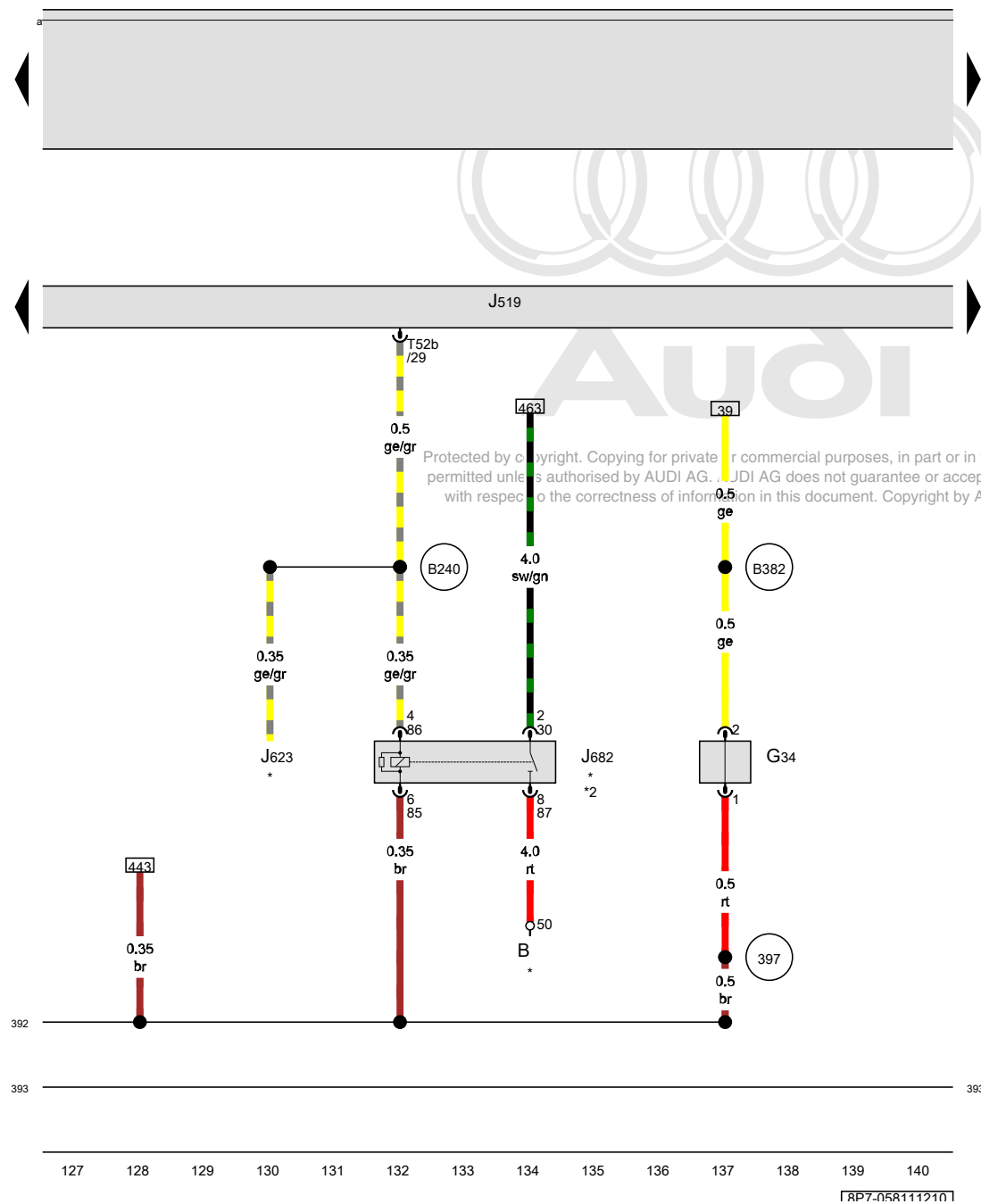
607 Earth point, on left in plenum chamber

B326 Positive connection 12 (30a) in main wiring harness

B335 Connection 1 (54), in main wiring harness

- * Only models with manual gearbox
- *2 see applicable current flow diagram for engine
- *3 see applicable current flow diagram for automatic gearbox
- *4 Only models with automatic gearbox

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



Front left brake pad wear sender, Onboard supply control unit, Terminal 50 voltage supply relay

- B Starter
- G34 Front left brake pad wear sender
- J519 Onboard supply control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T52b 52-pin connector

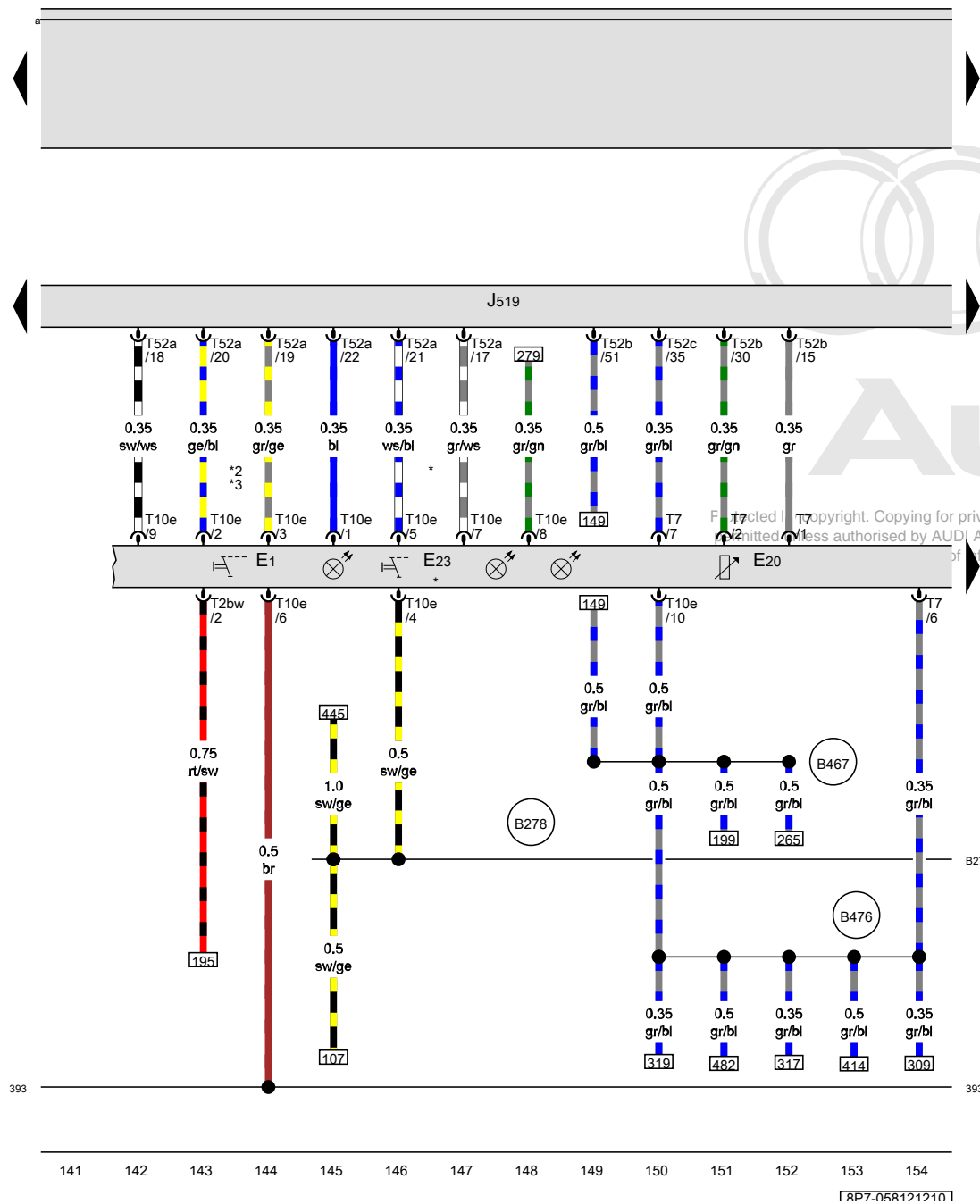
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- 397 Earth connection 32, in main wiring harness
- B240 Positive connection 2 (50), in interior wiring harness
- B382 Connection 4 (brake pad wear indicator), in main wiring harness

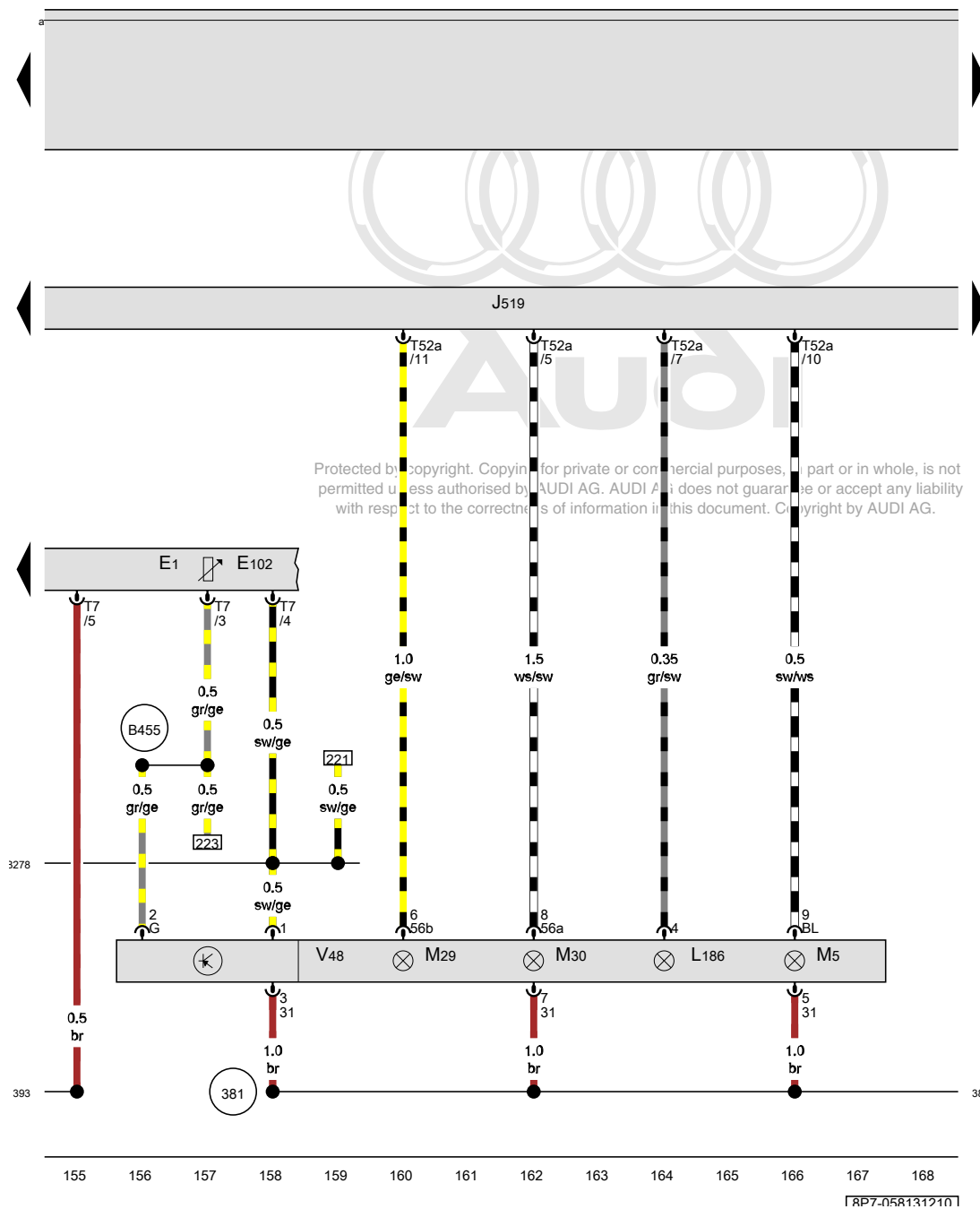
- * see applicable current flow diagram for engine
- *2 Only models with no start/stop system

Light switch, Switch and instrument illumination regulator,
Front and rear fog light switch, Onboard supply control unit

- E1 Light switch
- E20 Switch and instrument illumination regulator
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- T2bw 2-pin connector
- T7 7-pin connector
- T10e 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 393 Earth connection 28, in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness
- * Only models with fog lights
- *2 Only models with automatic driving lights control
- *3 Only models with daytime running lights





Light switch, Headlight range control regulator, Onboard supply control unit, Bulb for left daytime driving light and side light, Front left turn signal bulb, Left headlight dipped beam bulb, Left headlight main beam bulb, Left headlight range control motor

- E1 Light switch
- E102 Headlight range control regulator
- J519 Onboard supply control unit
- L186 Bulb for left daytime driving light and side light
- M5 Front left turn signal bulb
- M29 Left headlight dipped beam bulb
- M30 Left headlight main beam bulb
- T7 7-pin connector
- T52a 52-pin connector
- V48 Left headlight range control motor

- 381 Earth connection 16, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B455 Connection (HRC), in main wiring harness

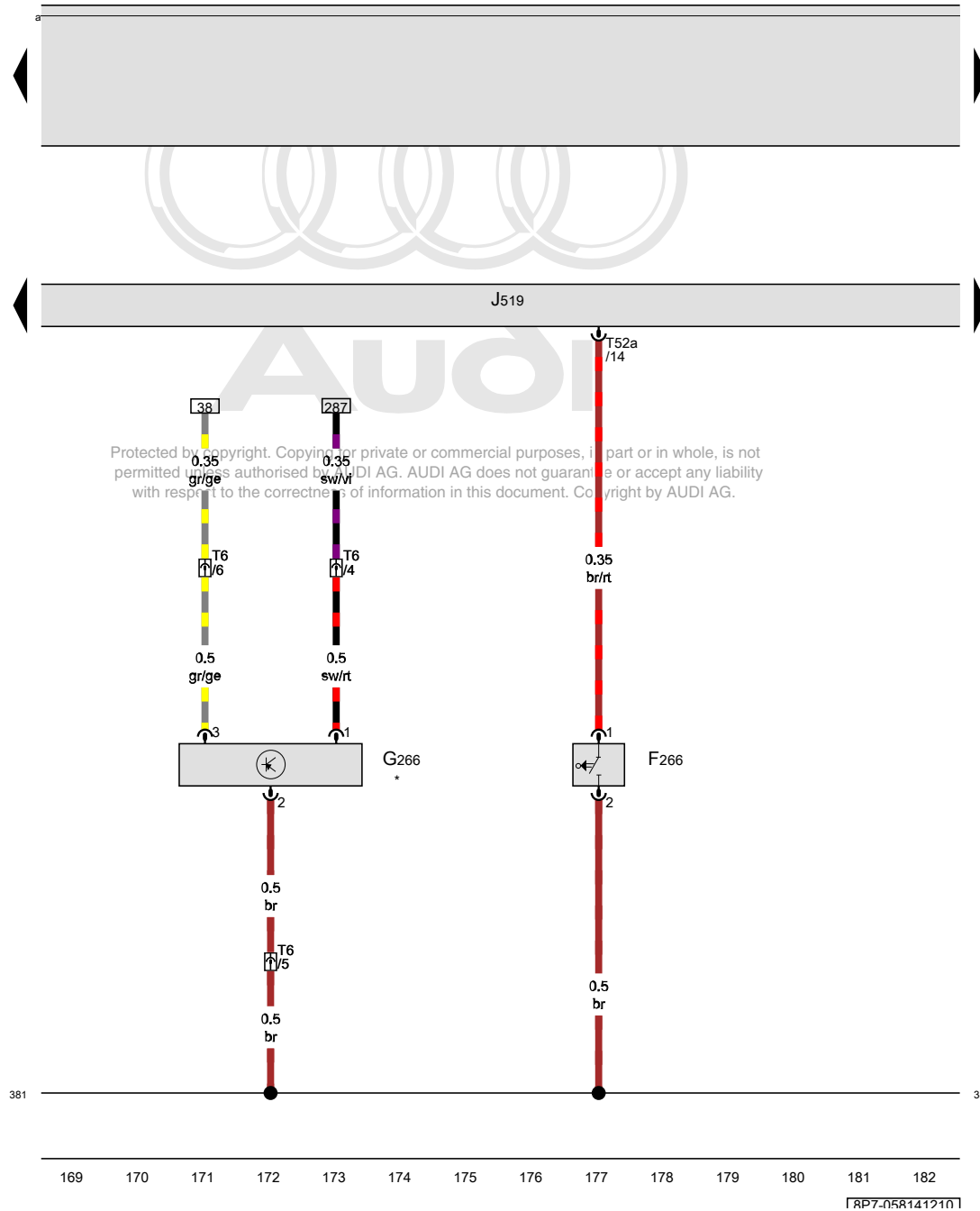


Bonnet contact switch, Oil level and oil temperature sender, Onboard supply control unit

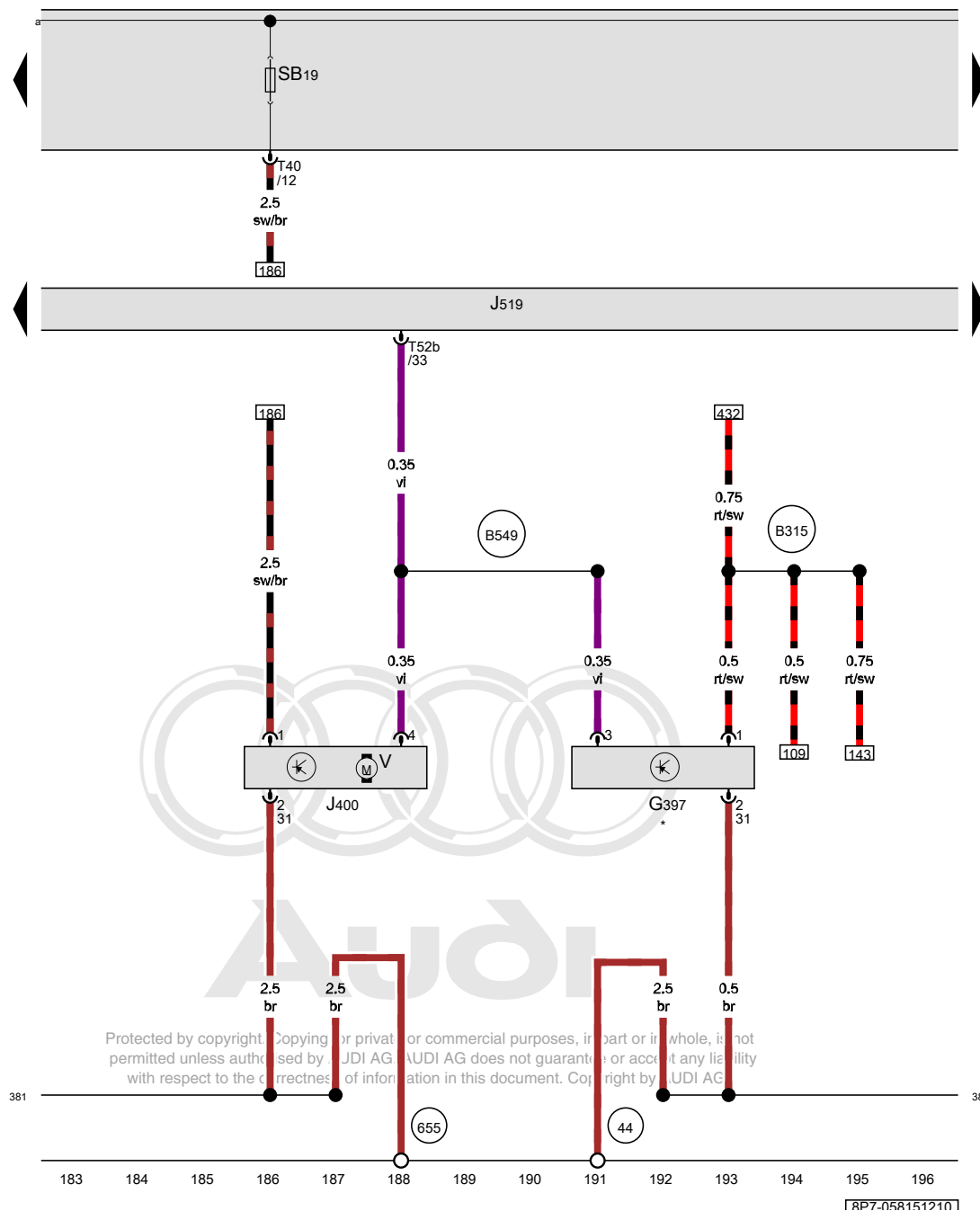
- F266 Bonnet contact switch
- G266 Oil level and oil temperature sender
- J519 Onboard supply control unit
- T6 6-pin connector
- T52a 52-pin connector

381 Earth connection 16, in main wiring harness

* Only models with extended servicing intervals (ESI)



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



Rain and light sensor, Wiper motor control unit, Onboard supply control unit, Windscreen wiper motor

- G397 Rain and light sensor
- J400 Wiper motor control unit
- J519 Onboard supply control unit
- SB19 Fuse 19 on fuse holder B
- T40 40-pin connector
- T52b 52-pin connector
- V Windscreen wiper motor

- 44 Earth point, lower part of left A-pillar
- 381 Earth connection 16, in main wiring harness
- 383 Earth connection 18, in main wiring harness
- 655 Earth point, on left headlight
- B315 Positive connection 1 (30a) in main wiring harness
- B549 Connection 2 (LIN bus) in main wiring harness
- * Only models with automatic driving lights control

Onboard supply control unit, Front interior light

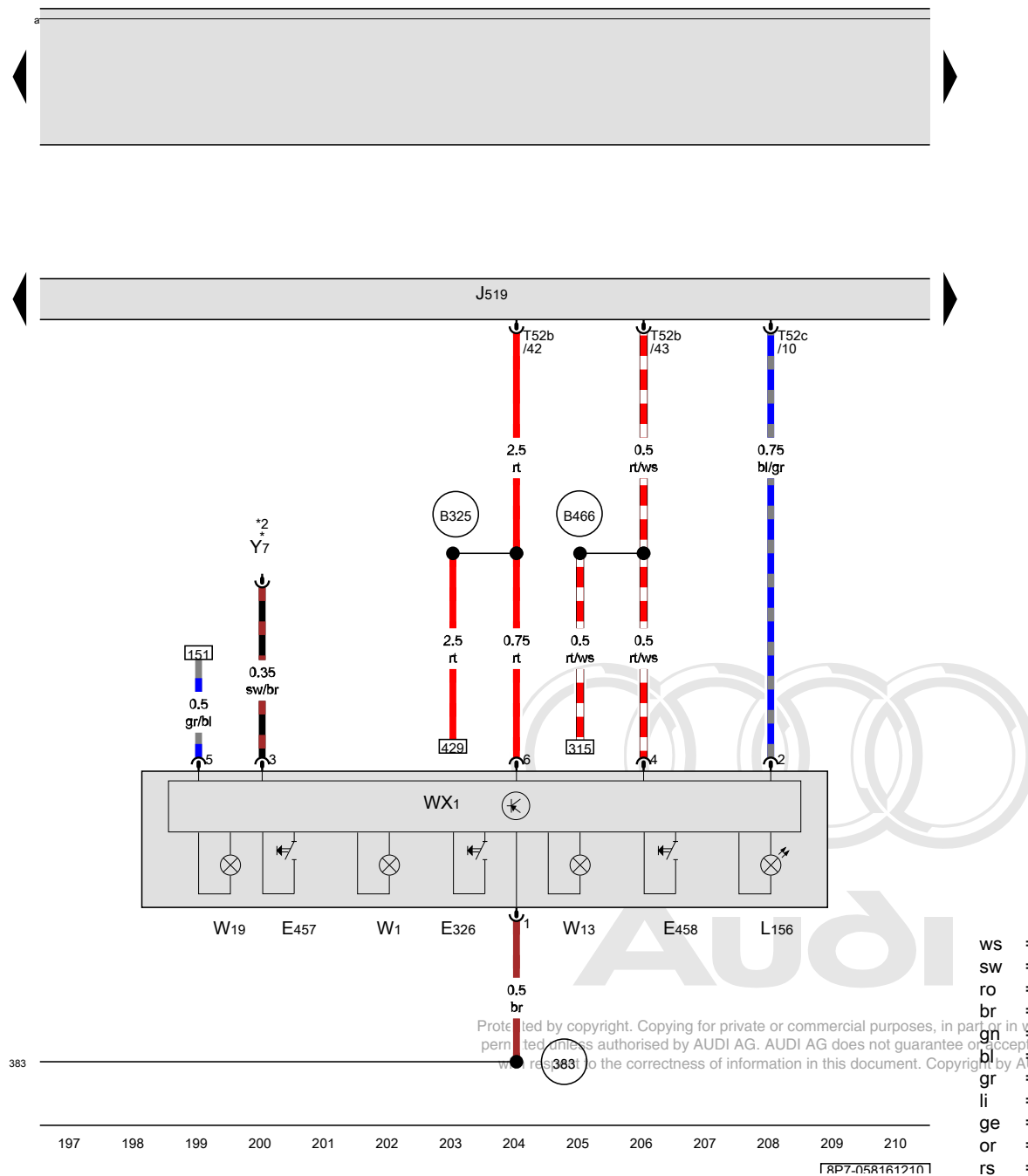
- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- L156 Switch illumination bulb
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior light
- WX1 Front interior light
- W13 Front passenger reading light
- W19 Driver side reading light
- Y7 Automatic anti-dazzle interior mirror

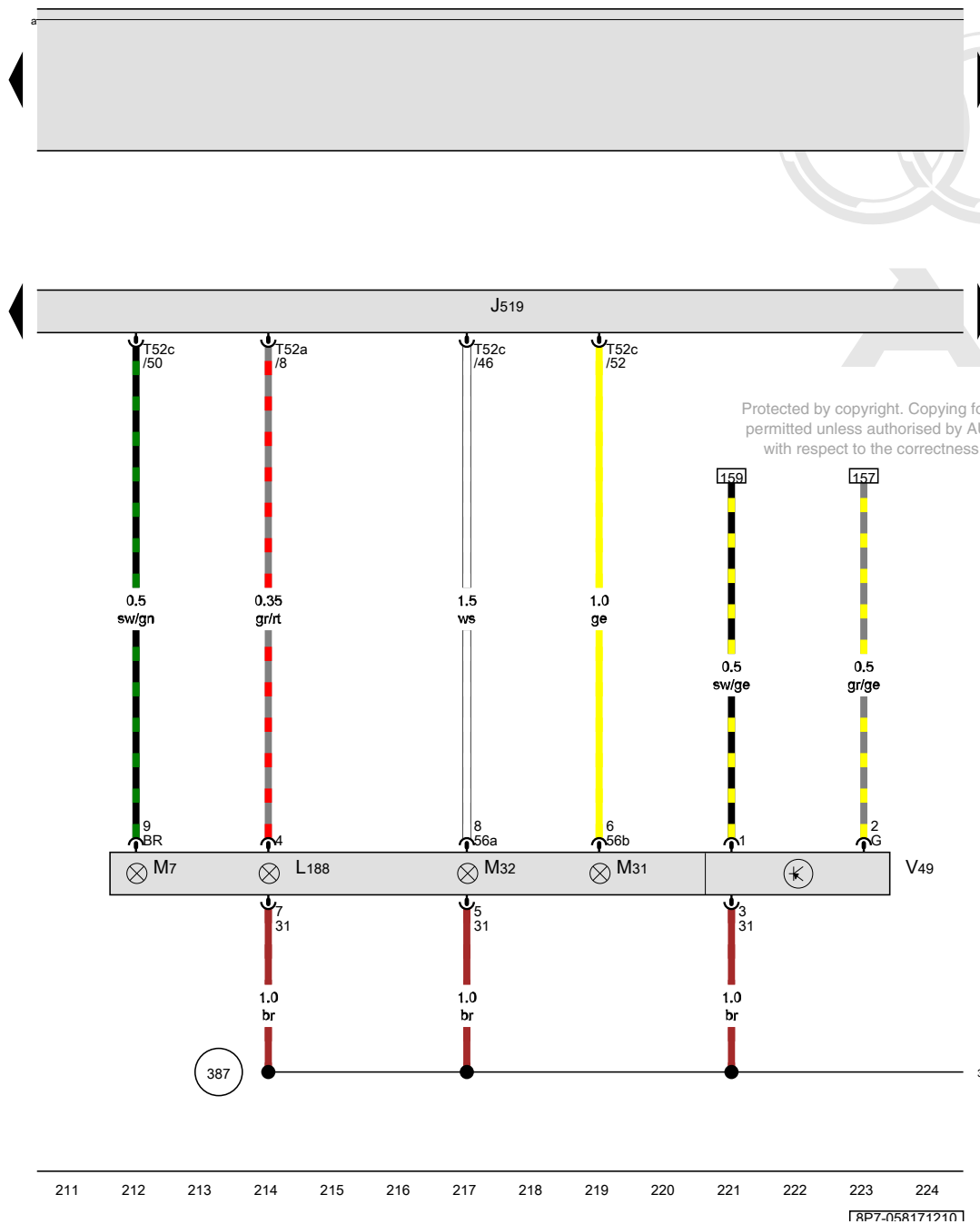
383 Earth connection 18, in main wiring harness

B325 Positive connection 11 (30a) in main wiring harness

B466 Connection 2, in main wiring harness

- * Only models with automatic anti-dazzle interior mirror
- *2 see applicable current flow diagram



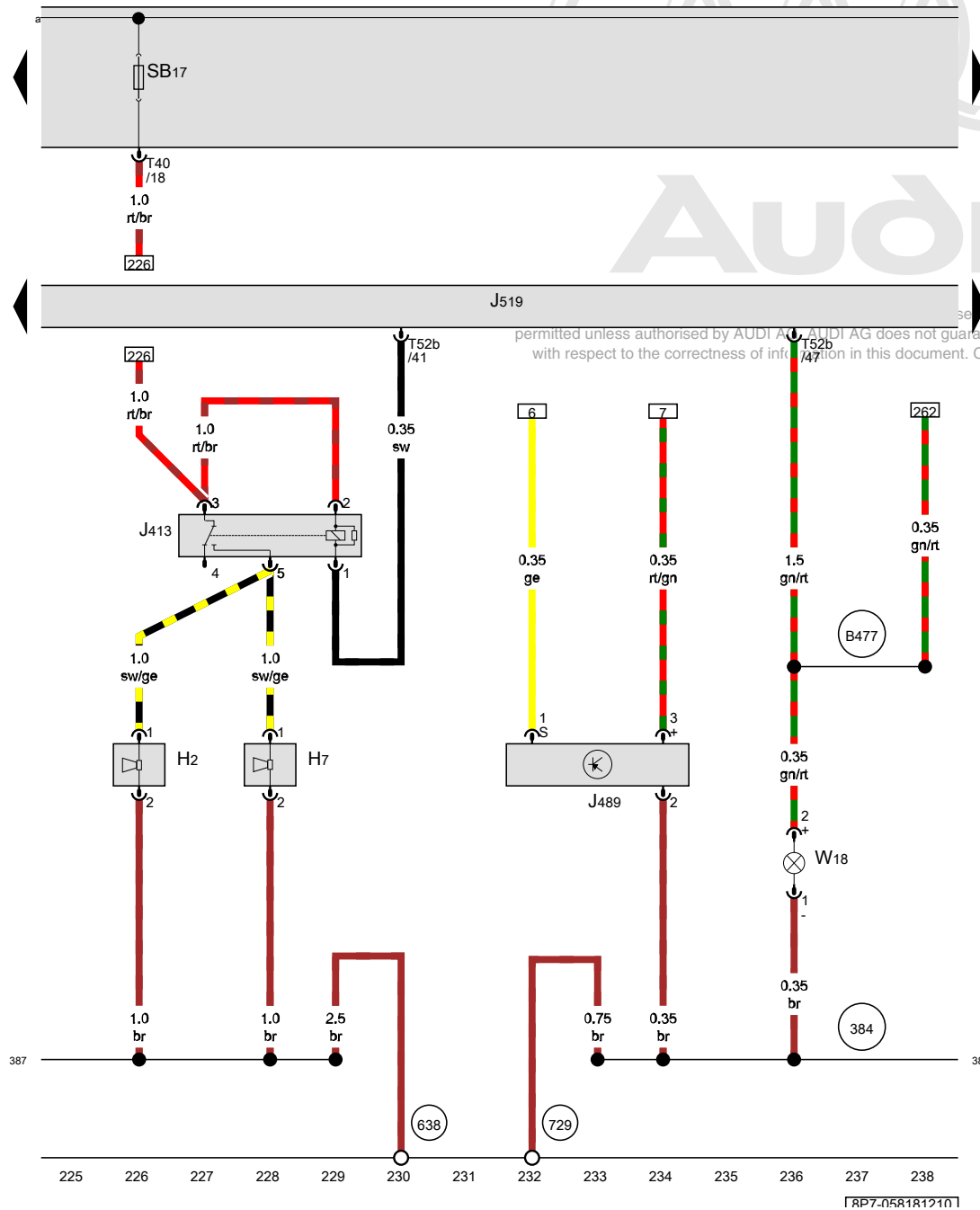


Onboard supply control unit, Bulb for right daytime driving light and side light, Front right turn signal bulb, Right headlight dipped beam bulb, Right headlight main beam bulb, Right headlight range control motor

- J519 Onboard supply control unit
- L188 Bulb for right daytime driving light and side light
- M7 Front right turn signal bulb
- M31 Right headlight dipped beam bulb
- M32 Right headlight main beam bulb
- T52a 52-pin connector
- T52c 52-pin connector
- V49 Right headlight range control motor

387 Earth connection 22, in main wiring harness

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



Treble horn, Bass horn, Horn relay, Radio controlled clock receiver, Onboard supply control unit, Luggage compartment light on left

- H2 Treble horn
- H7 Bass horn
- J413 Horn relay
- J489 Radio controlled clock receiver
- J519 Onboard supply control unit
- SB17 Fuse 17 on fuse holder B
- T40 40-pin connector
- T52b 52-pin connector
- W18 Luggage compartment light on left

- 384 Earth connection 19, in main wiring harness
- 387 Earth connection 22, in main wiring harness
- 638 Earth point, on right A-pillar
- 729 Earth point, on left rear wheel housing
- B477 Connection 13, in main wiring harness



Onboard supply control unit, Left tail light, Additional brake light bulb

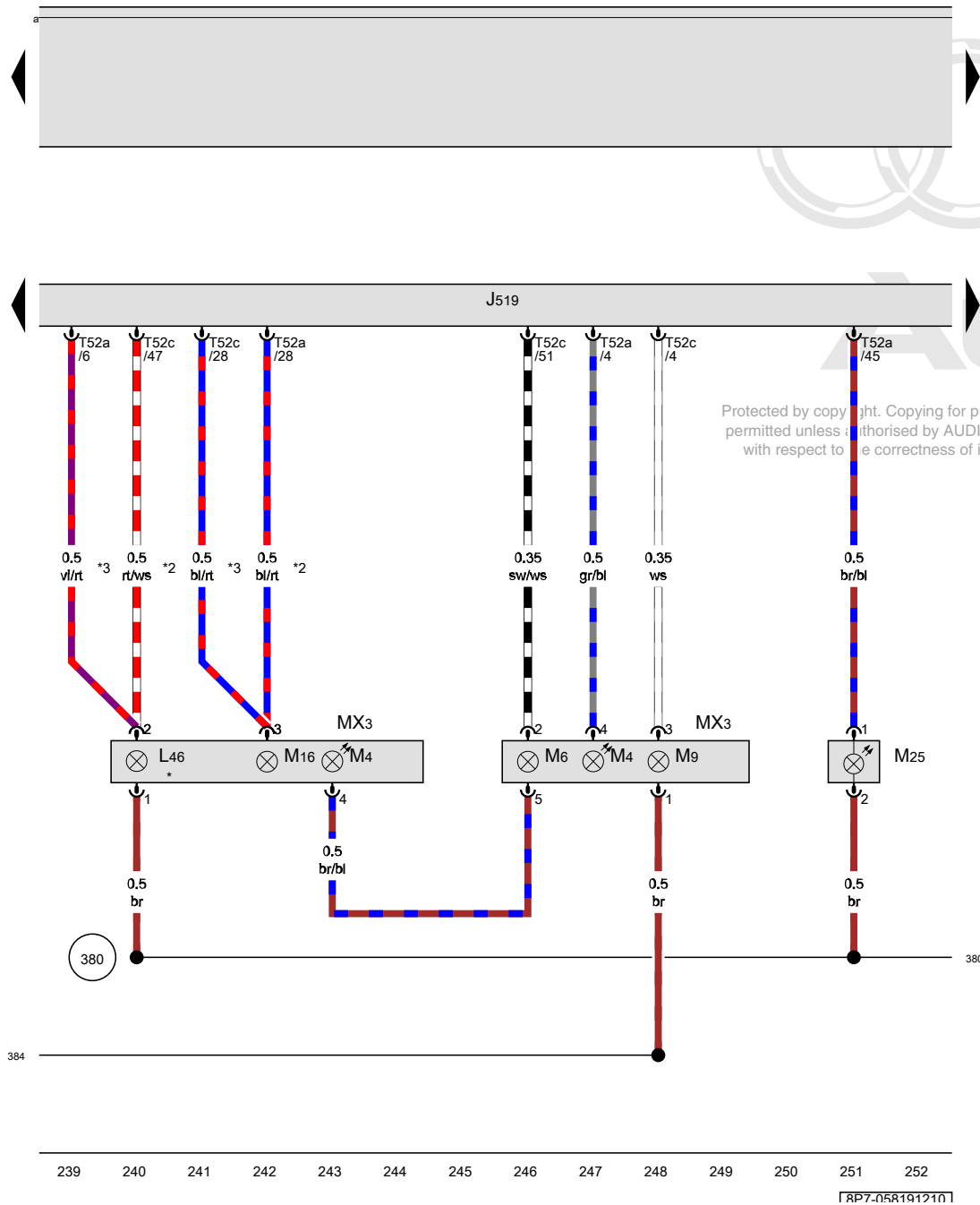
- J519 Onboard supply control unit
- L46 Rear left fog light bulb
- MX3 Left tail light
- M4 Left tail light bulb
- M6 Rear left turn signal bulb
- M9 Left brake light bulb
- M16 Left reversing light bulb
- M25 Additional brake light bulb
- T52a 52-pin connector
- T52c 52-pin connector

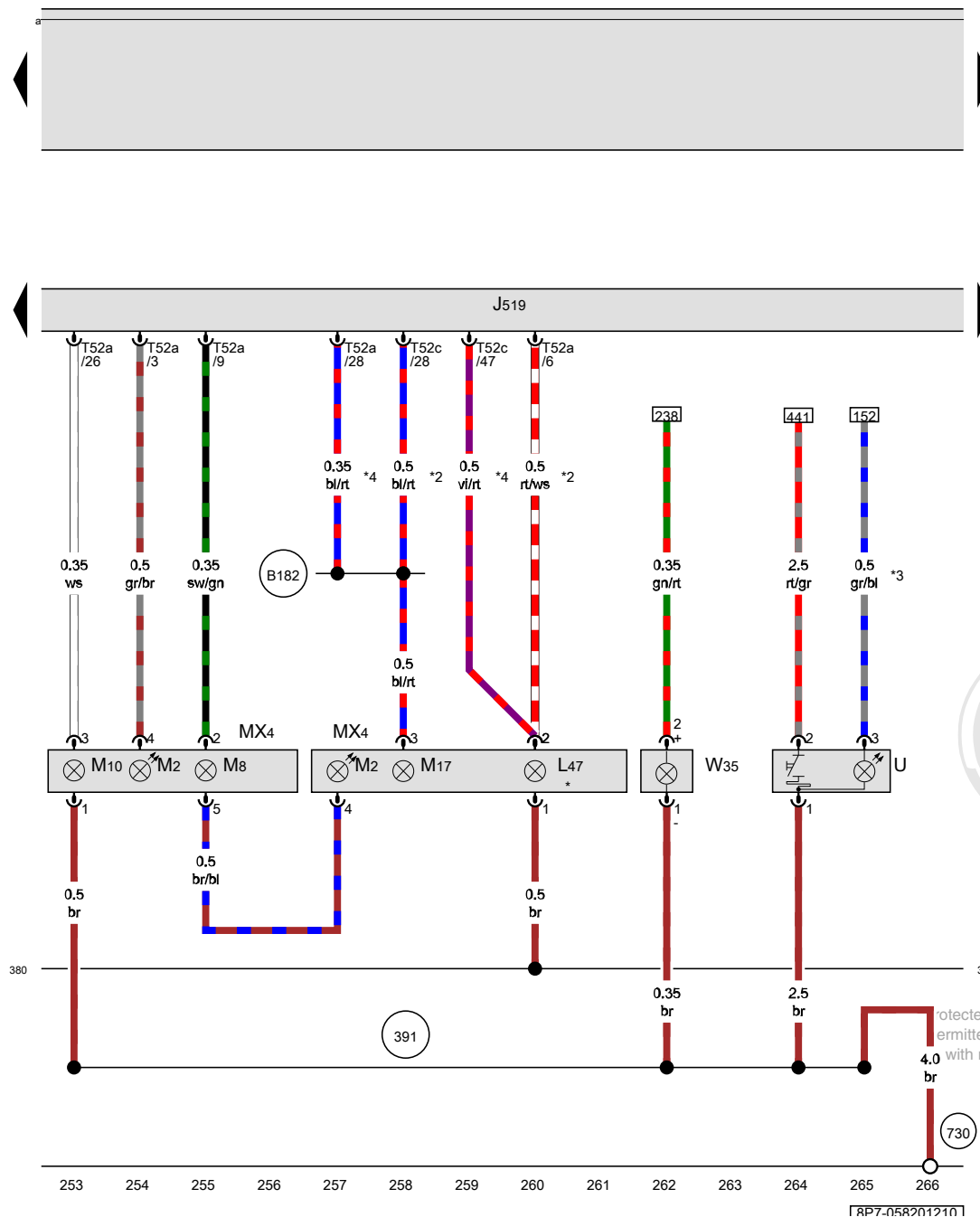
380 Earth connection 15, in main wiring harness

384 Earth connection 19, in main wiring harness

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*2 Only models with rear fog lights
*3 Only left-hand drive models
*3 Only right-hand drive models





Onboard supply control unit, Right tail light, Electric socket, Right luggage compartment light

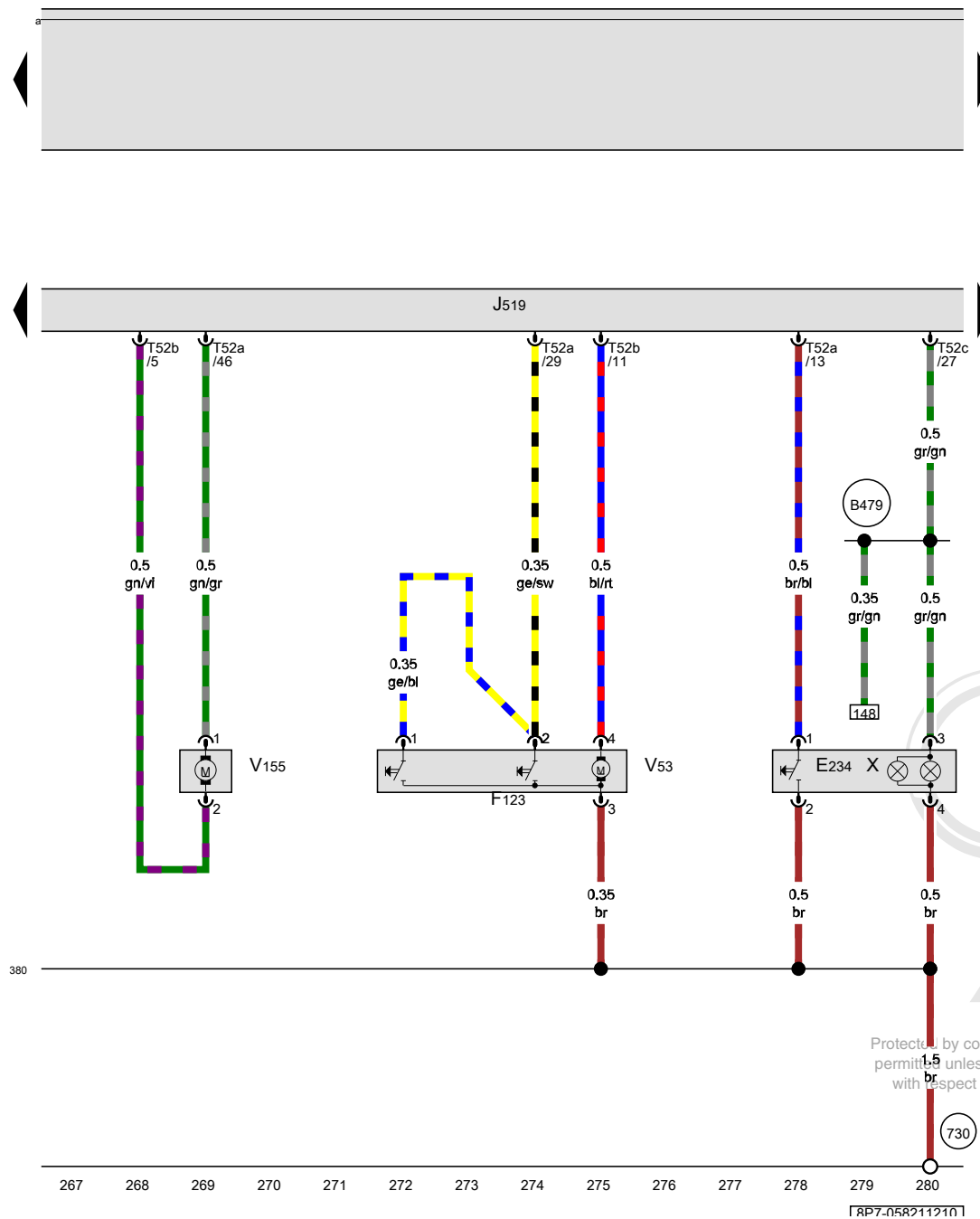
- J519 Onboard supply control unit
- L47 Rear right fog light bulb
- M2 Right tail light bulb
- MX4 Right tail light
- M8 Rear right turn signal bulb
- M10 Right brake light bulb
- M17 Right reversing light bulb
- T52a 52-pin connector
- T52c 52-pin connector
- U Electric socket
- W35 Right luggage compartment light

- 380 Earth connection 15, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 730 Earth point 1, on right rear wheel housing
- B182 Connection (RL), in interior wiring harness

- * Only models with rear fog lights
- *2 Only left-hand drive models
- *3 Gradually discontinued
- *4 Only right-hand drive models

ws = white
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 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
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Rear lid handle release button, Rear lid contact switch for anti-theft alarm, Onboard supply control unit, Tank filler flap locking motor, Number plate light

- E234 Rear lid handle release button
- F123 Rear lid contact switch for anti-theft alarm
- J519 Onboard supply control unit
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V53 Rear lid central locking motor
- V155 Tank filler flap locking motor
- X Number plate light

- 380 Earth connection 15, in main wiring harness
- 730 Earth point 1, on right rear wheel housing
- B479 Connection 15, in main wiring harness

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Reversing light switch, Onboard supply control unit, Washer pump, Left washer jet heater element, Right washer jet heater element

- F4 Reversing light switch
- J162 Heater control unit
- J519 Onboard supply control unit
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- V5 Washer pump
- Z20 Left washer jet heater element
- Z21 Right washer jet heater element

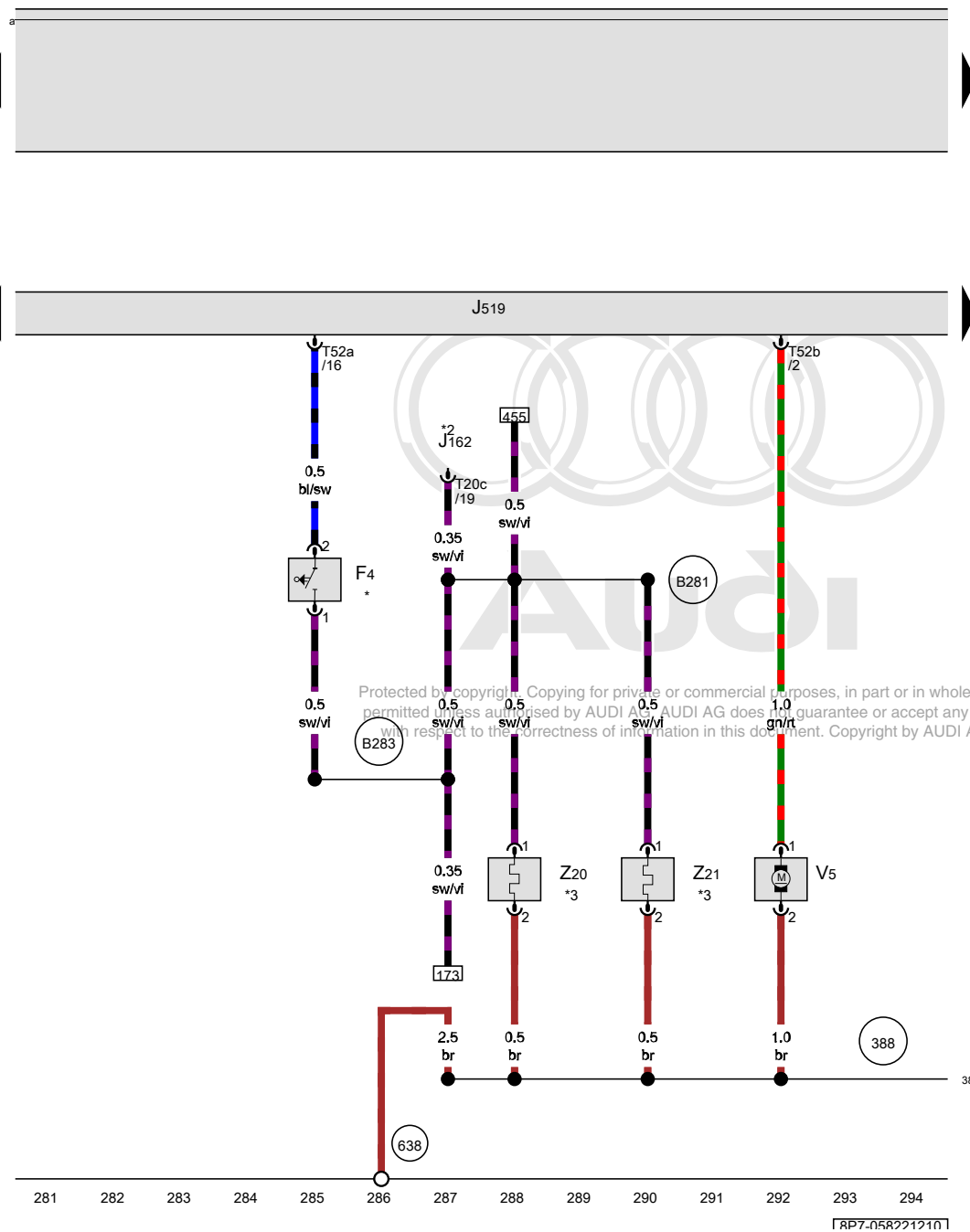
388 Earth connection 23, in main wiring harness

638 Earth point, on right A-pillar

B281 Positive connection 5 (15a) in main wiring harness

B283 Positive connection 7 (15a) in main wiring harness

- * Only models with manual gearbox
- *2 see applicable current flow diagram for manually controlled heater
- *3 Only models with heater elements for washer jets



Heated rear window relay, Heater control unit, Onboard supply control unit, Heated rear window

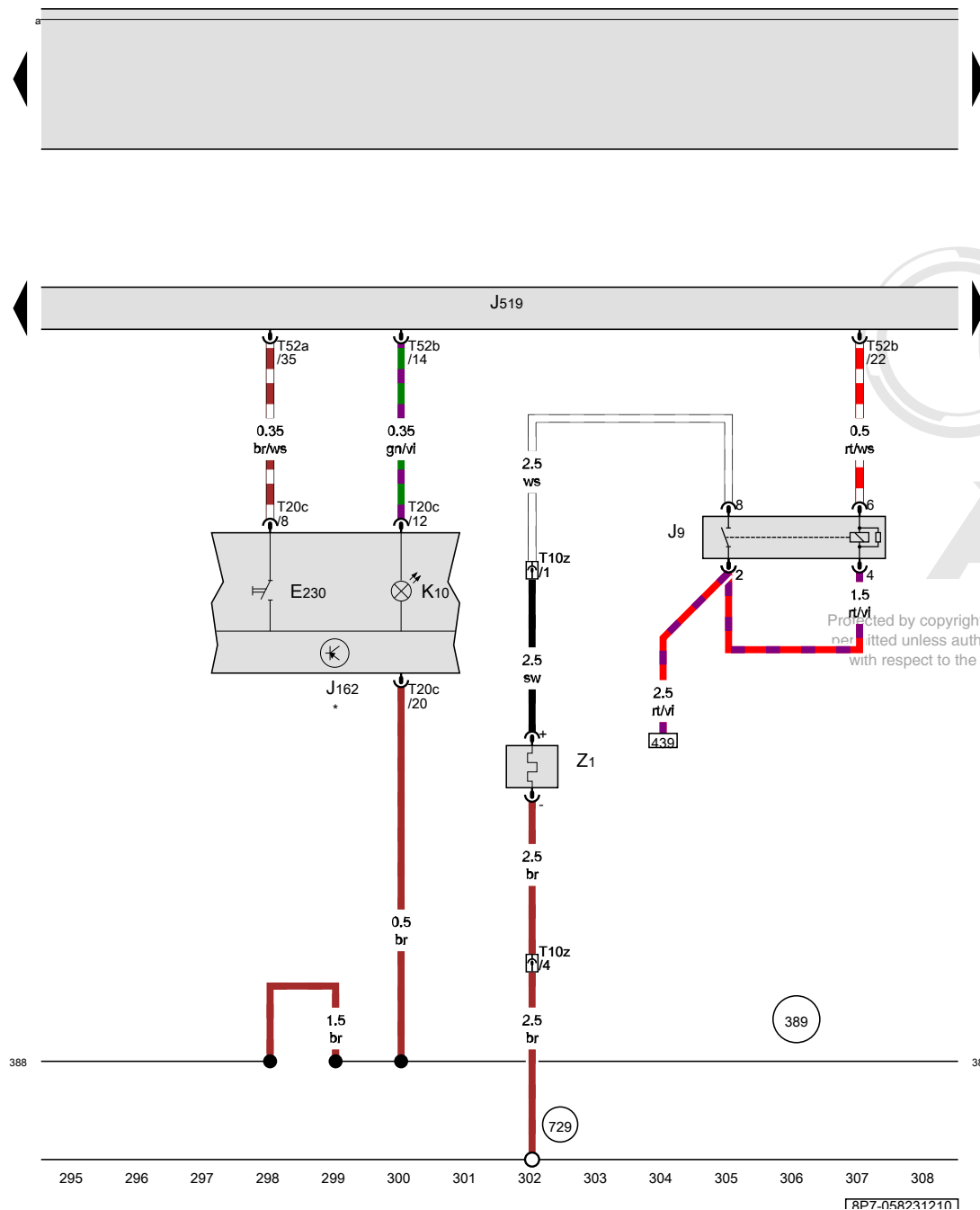
- E230 Heated rear window button
- J9 Heated rear window relay
- J162 Heater control unit
- J519 Onboard supply control unit
- K10 Heated rear window warning lamp
- T10z 10-pin connector
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- Z1 Heated rear window

388 Earth connection 23, in main wiring harness

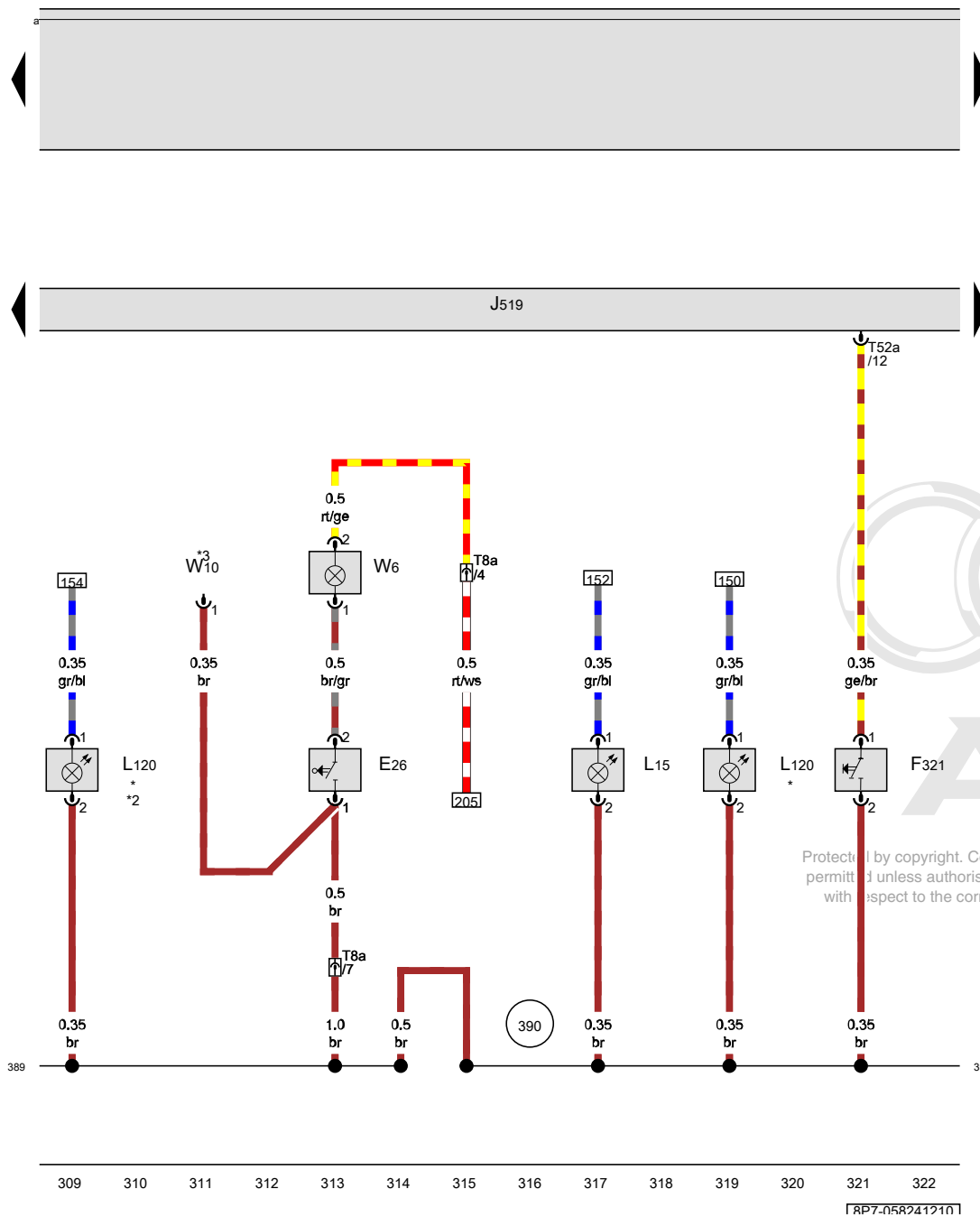
389 Earth connection 24, in main wiring harness

729 Earth point, on left rear wheel housing

* see applicable current flow diagram for manually controlled heater



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Glove compartment light switch, Parking brake contact switch, Onboard supply control unit, Ashtray illumination bulb, Storage compartment illumination bulb, Glove compartment light, Right footwell light

- E26 Glove compartment light switch
- F321 Parking brake contact switch
- J519 Onboard supply control unit
- L15 Ashtray illumination bulb
- L120 Storage compartment illumination bulb
- T8a 8-pin connector, near glove compartment
- T52a 52-pin connector
- W6 Glove compartment light
- W10 Right footwell light

389 Earth connection 24, in main wiring harness

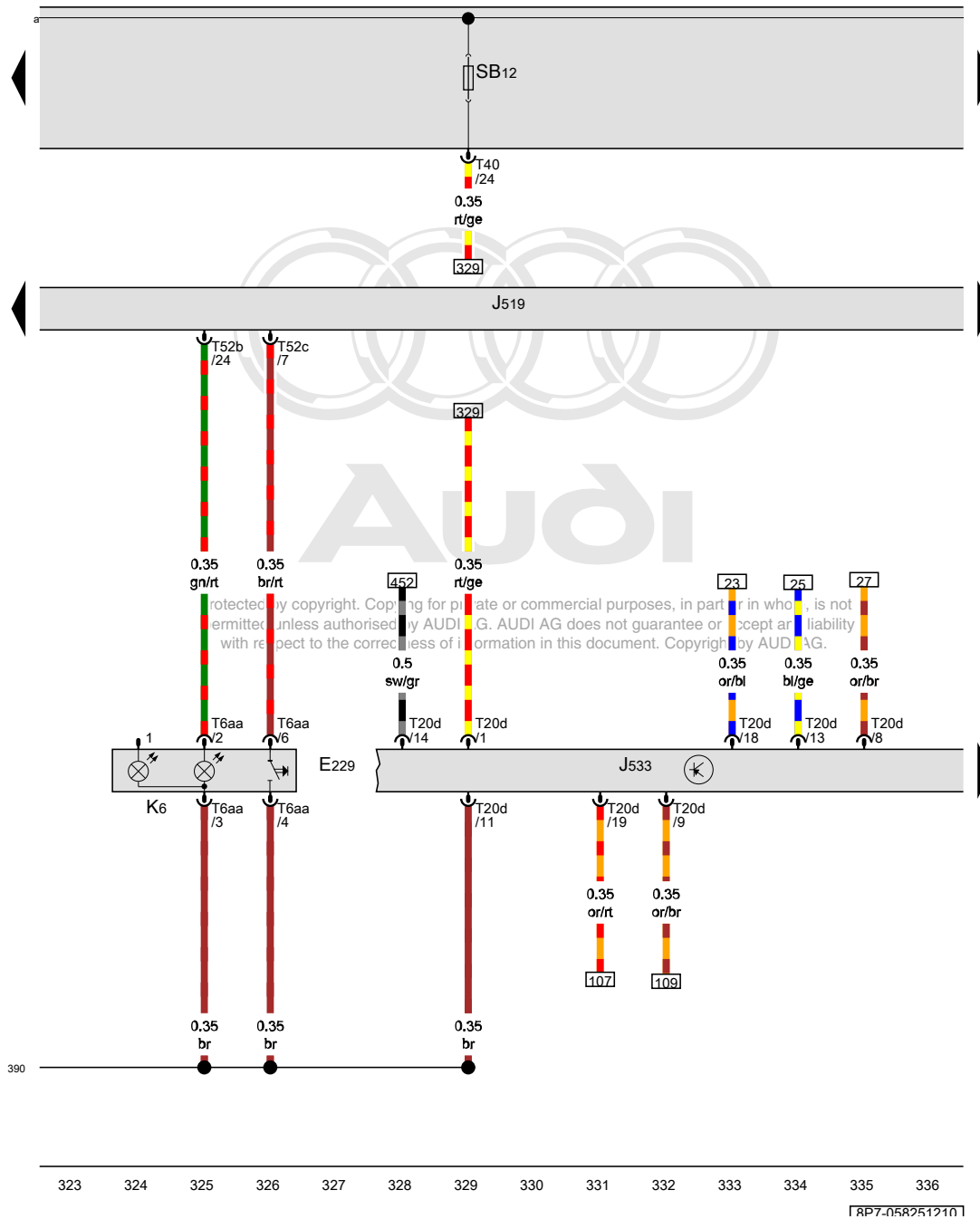
390 Earth connection 25, in main wiring harness

* Optional equipment

*2 Gradually discontinued

*3 see applicable current flow diagram for convenience system

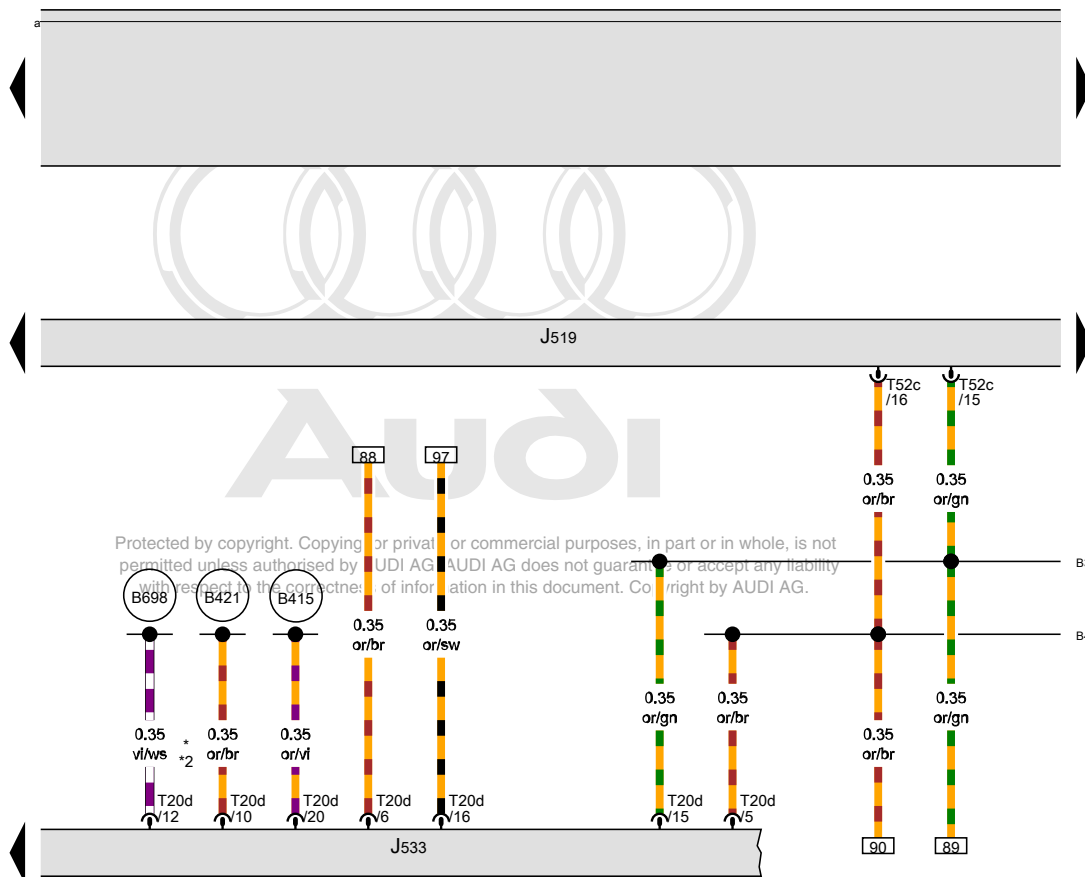
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Onboard supply control unit, Data bus diagnostic interface,
Indicator lamp for hazard warning light

- E229 Hazard warning lights button
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- K6 Indicator lamp for hazard warning light
- SB12 Fuse 12 on fuse holder B
- T6aa 6-pin connector
- T20d 20-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

390 Earth connection 25, in main wiring harness



Onboard supply control unit, Data bus diagnostic interface

- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- T20d 20-pin connector
- T52c 52-pin connector
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B415 Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421 Connection 1 (infotainment CAN bus, low), in main wiring harness
- B698 Connection 3 (LIN bus) in main wiring harness

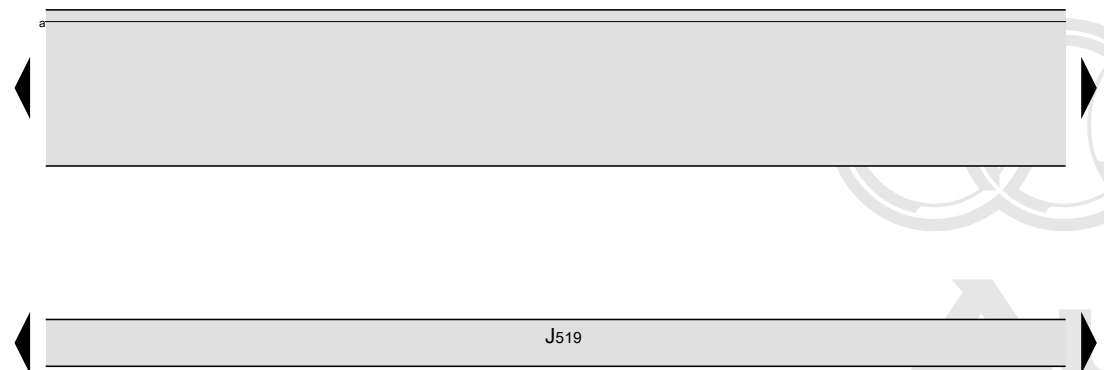
* Only models with start/stop system

*2 Only models with energy recovery

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

337 338 339 340 341 342 343 344 345 346 347 348 349 350

18P7-05R2R12101



Driver side central locking lock unit, Driver door control unit, Onboard supply control unit, Driver side turn signal repeater bulb

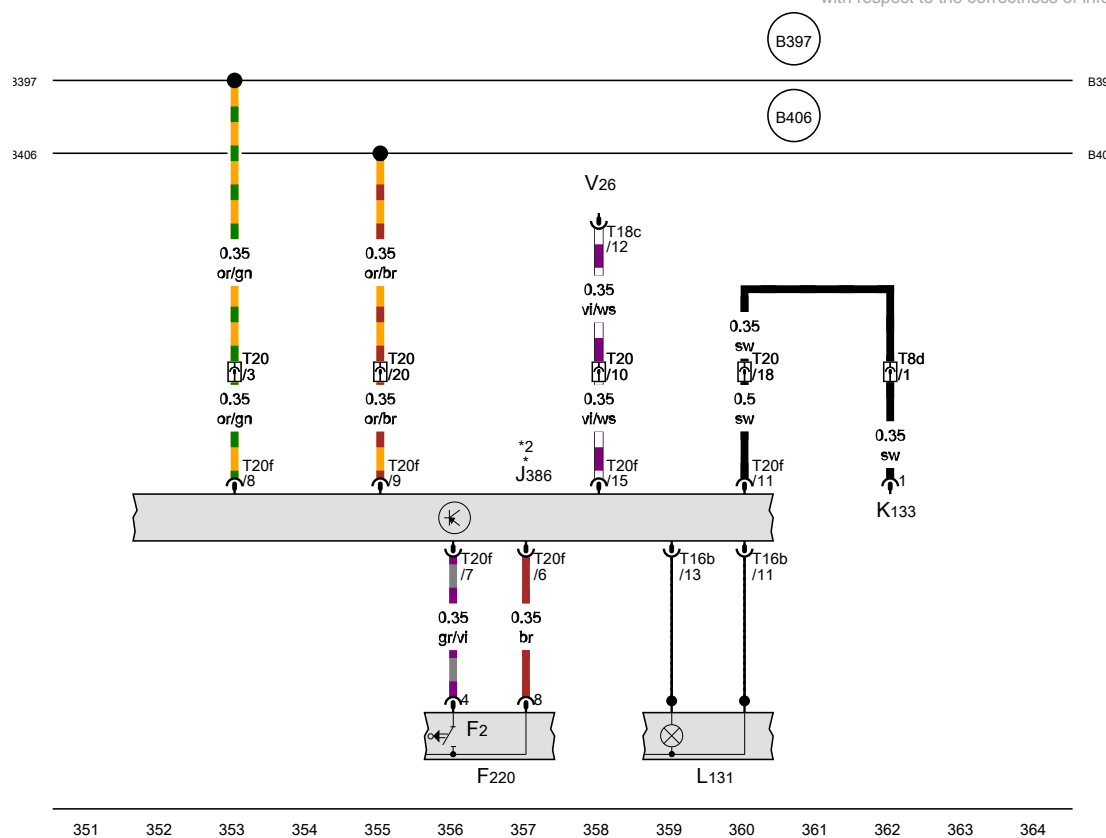
- F2 Driver door contact switch
- F220 Driver side central locking lock unit
- J386 Driver door control unit
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- L131 Driver side turn signal repeater bulb
- T8d 8-pin connector, behind centre console
- T16b 16-pin connector
- T18c 18-pin connector
- T20 20-pin connector, on left A-pillar
- T20f 20-pin connector
- V26 Rear left window regulator motor

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B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* see applicable current flow diagram for convenience system
*2 Only left-hand drive models



ws = white
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bl = blue
gr = grey
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ge = yellow
or = orange
rs = pink

18P7-05R2712101



Front passenger side central locking lock unit, Front passenger door control unit, Onboard supply control unit, Front passenger side turn signal repeater bulb

- F3 Front passenger door contact switch
- F221 Front passenger side central locking lock unit
- J387 Front passenger door control unit
- J519 Onboard supply control unit
- L132 Front passenger side turn signal repeater bulb
- T16c 16-pin connector
- T18c 18-pin connector
- T20 20-pin connector, on left A-pillar
- T20g 20-pin connector
- V26 Rear left window regulator motor

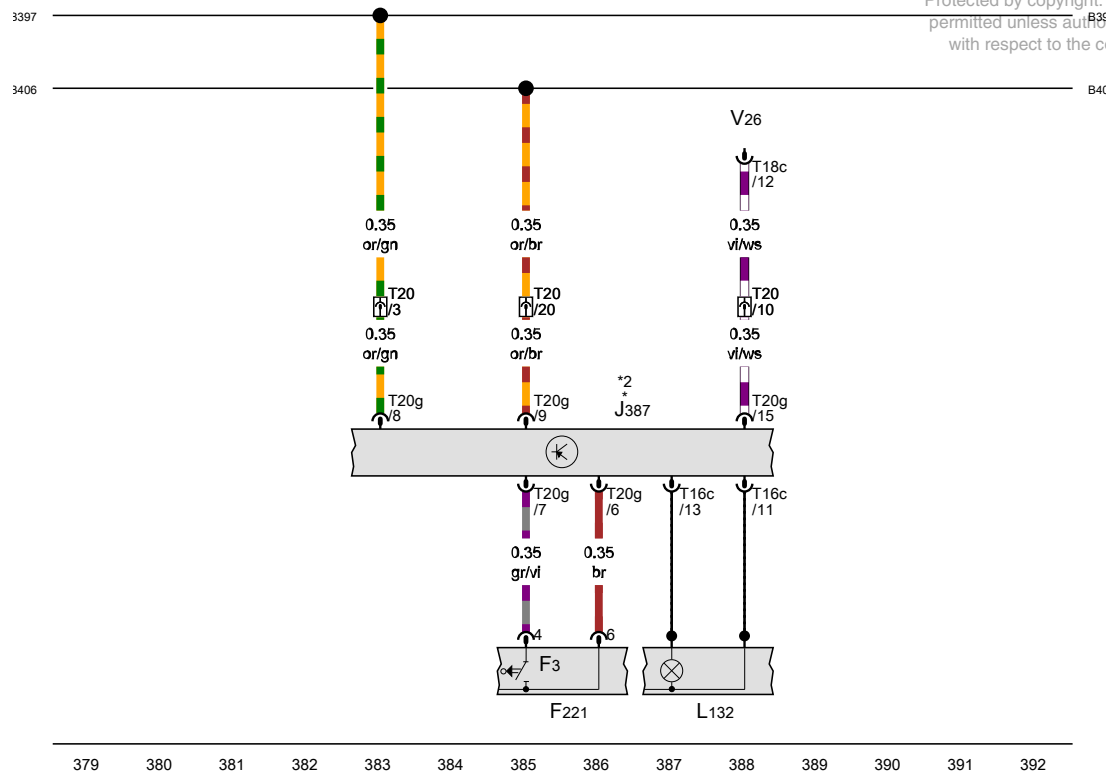
B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* see applicable current flow diagram for convenience system

*2 Only right-hand drive models

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- rs = pink

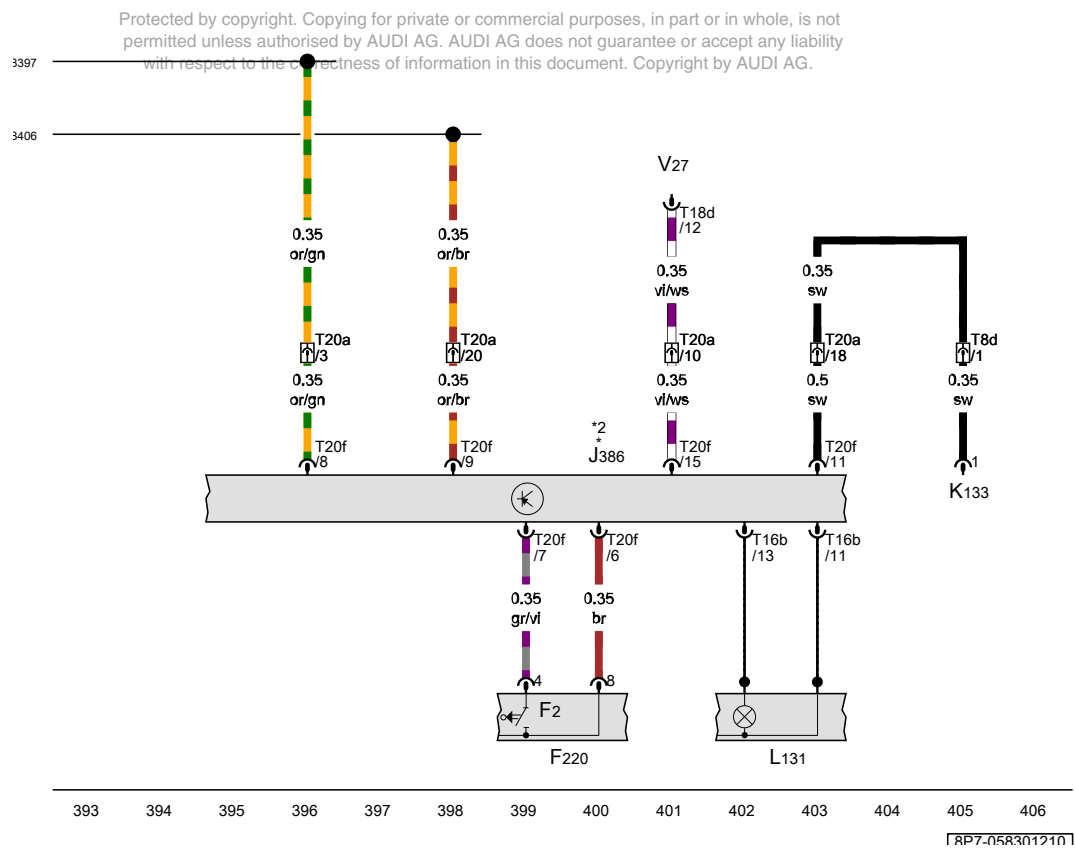
Driver side central locking lock unit, Driver door control unit, Onboard supply control unit, Driver side turn signal repeater bulb

- F2 Driver door contact switch
- F220 Driver side central locking lock unit
- J386 Driver door control unit
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- L131 Driver side turn signal repeater bulb
- T8d 8-pin connector, behind centre console
- T16b 16-pin connector
- T18d 18-pin connector
- T20a 20-pin connector, on right A-pillar
- T20f 20-pin connector
- V27 Rear right window regulator motor

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* see applicable current flow diagram for convenience system
*2 Only right-hand drive models

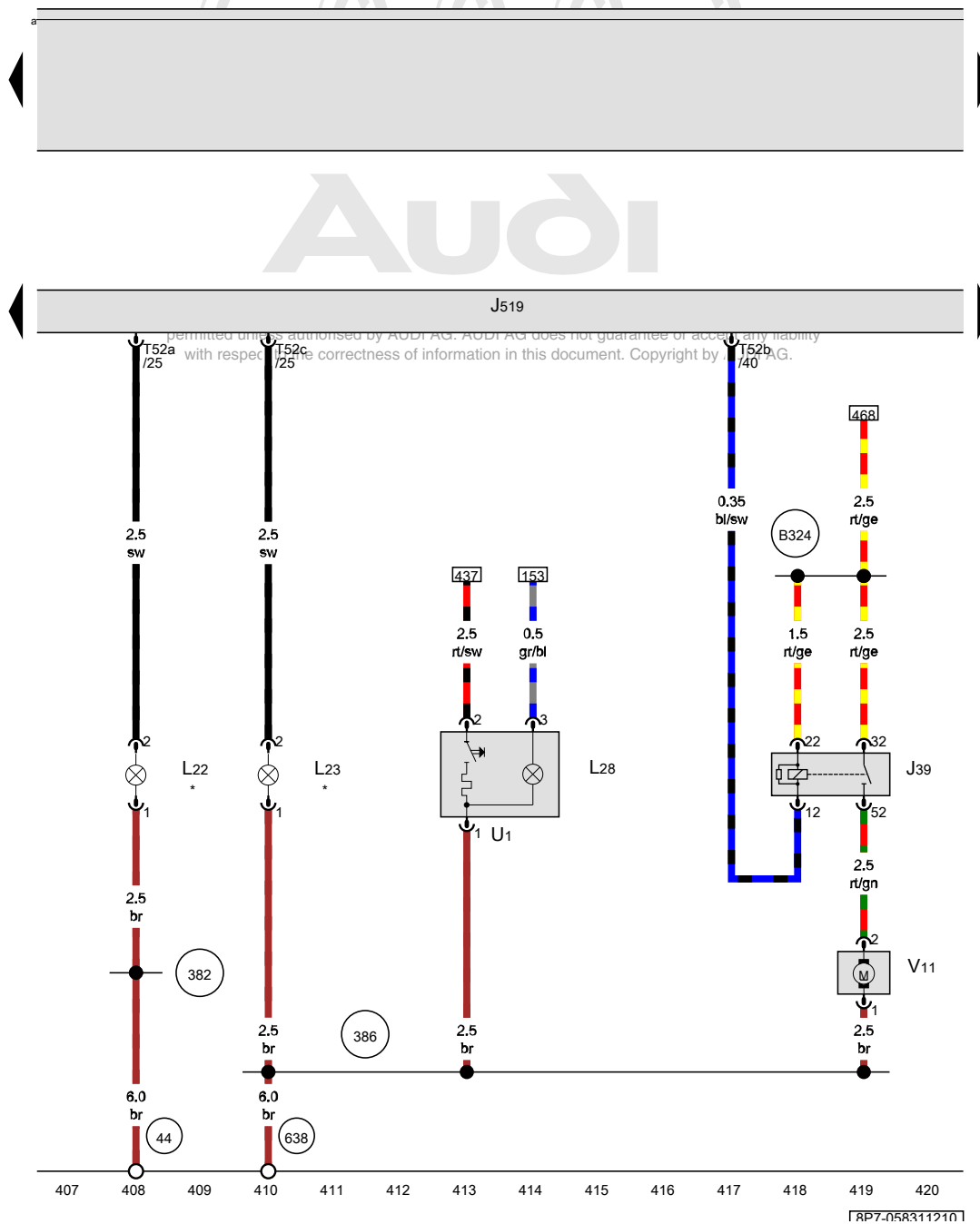


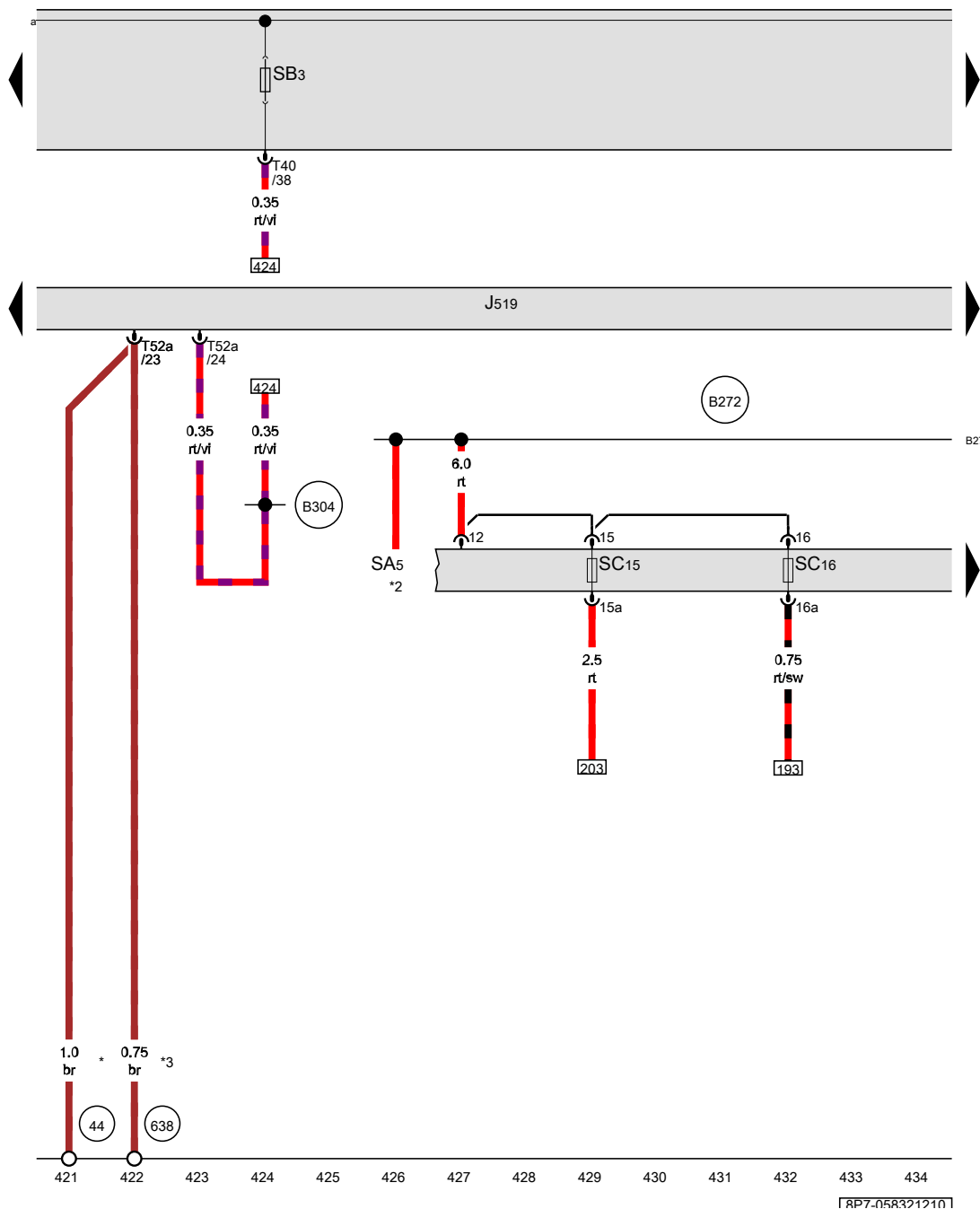
Headlight washer system relay, Onboard supply control unit, Left fog light bulb, Right fog light bulb, Cigarette lighter, Headlight washer system pump

- J39 Headlight washer system relay
- J519 Onboard supply control unit
- L22 Left fog light bulb
- L23 Right fog light bulb
- L28 Cigarette lighter illumination bulb
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U1 Cigarette lighter
- V11 Headlight washer system pump

- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 386 Earth connection 21, in main wiring harness
- 638 Earth point, on right A-pillar
- B324 Positive connection 10 (30a) in main wiring harness
- * Only models with fog lights

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





Onboard supply control unit

- J519 Onboard supply control unit
- SB3 Fuse 3 on fuse holder B
- SA5 Fuse 5 in fuse holder A
- SC15 Fuse 15 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- T40 40-pin connector
- T52a 52-pin connector

44 Earth point, lower part of left A-pillar

638 Earth point, on right A-pillar

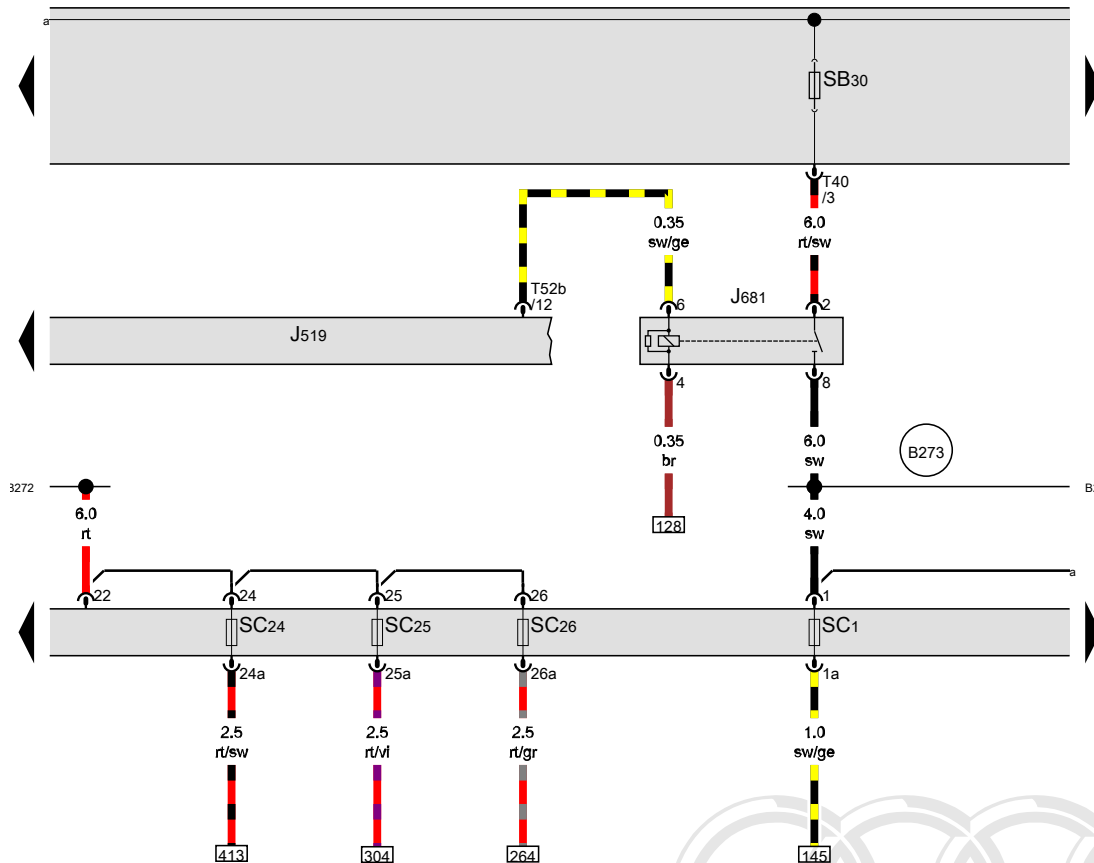
B272 Positive connection (30), in main wiring harness

B304 Positive connection 8 (30), in main wiring harness

- * Only left-hand drive models
- *2 see applicable current flow diagram for battery in engine compartment
- *3 Only right-hand drive models

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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



Onboard supply control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC1 Fuse 1 on fuse holder C
- SC24 Fuse 24 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- SC26 Fuse 26 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector
- T52b 52-pin connector

B272 Positive connection (30), in main wiring harness

B273 Positive connection (15), in main wiring harness

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ws = white
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br = brown
gn = green
bl = blue
gr = grey
li = light blue
li = purple
ge = yellow
or = orange
rs = pink

Steering moment sender, Power steering control unit

- G269 Steering moment sender
- J500 Power steering control unit
- SA2 Fuse 2 in fuse holder A
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- T2a 2-pin connector
- T3w 3-pin connector
- T5a 5-pin connector
- T6 6-pin connector, near front left longitudinal member

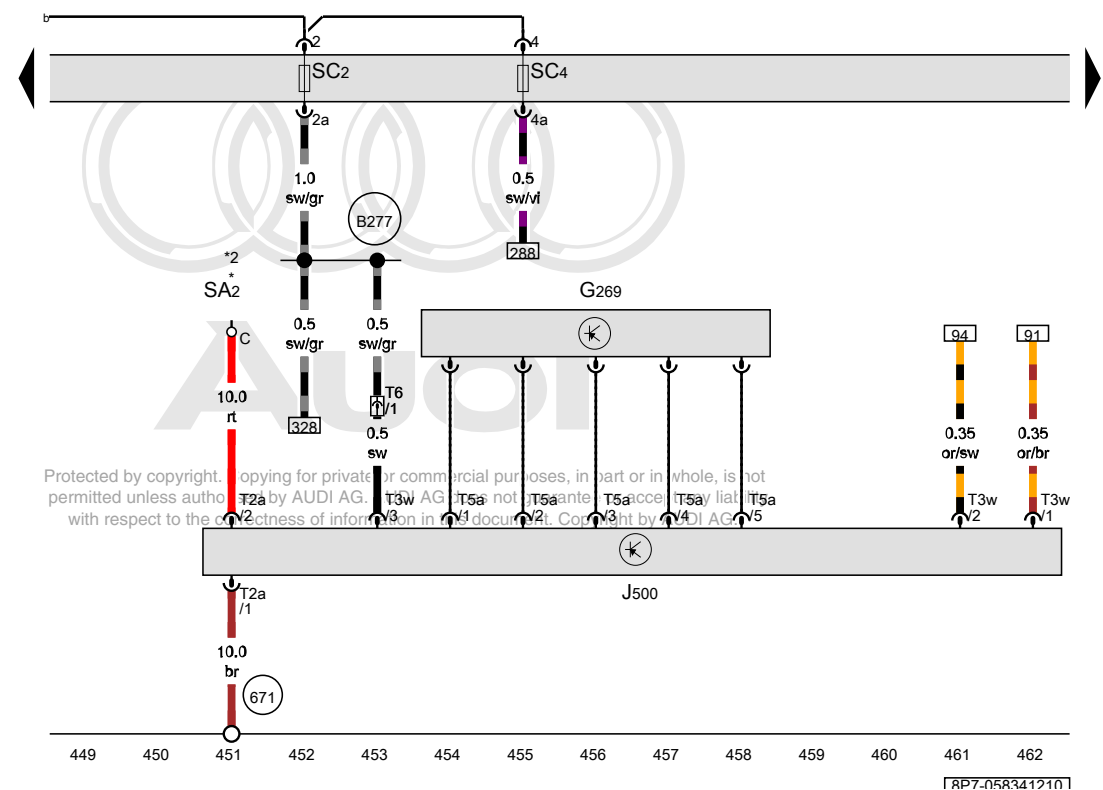
671 Earth point 1, on front of left longitudinal member

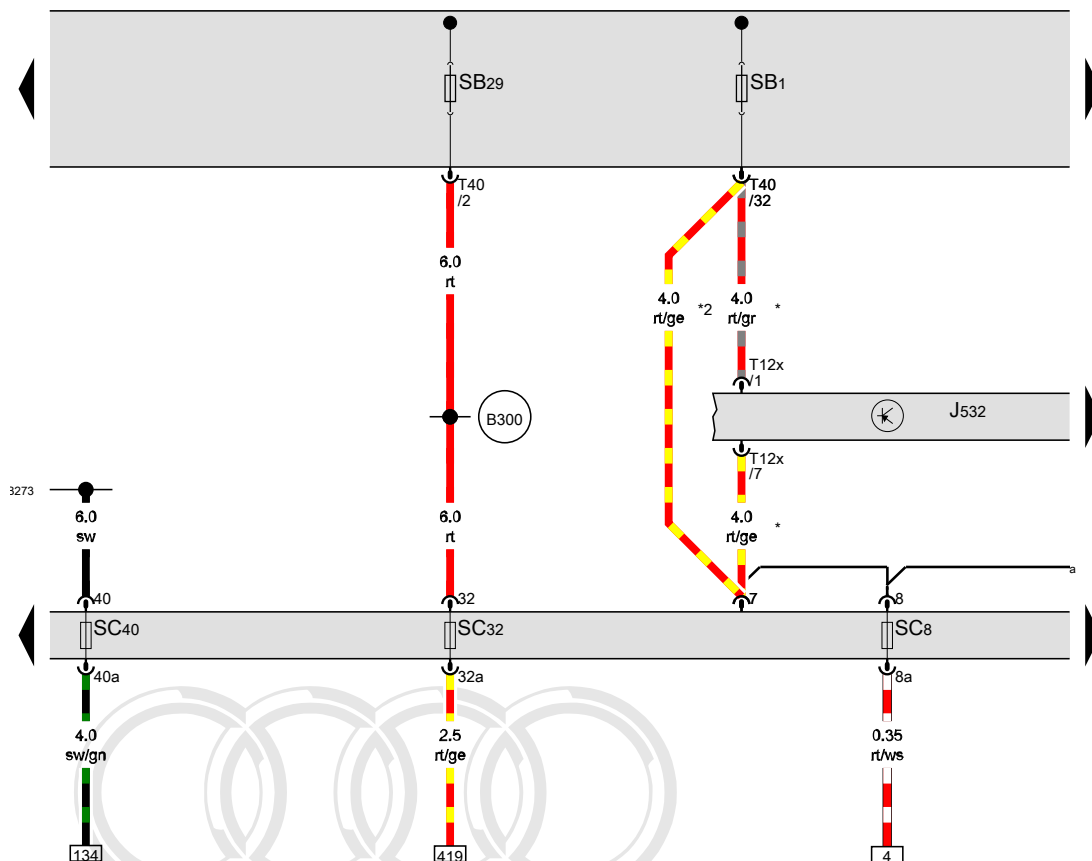
B273 Positive connection (15), in main wiring harness

B277 Positive connection 1 (15a) in main wiring harness

- * Only models with battery in engine compartment
- *2 see applicable current flow diagram

3273 B27





Voltage stabiliser

- J532 Voltage stabiliser
- SB1 Fuse 1 on fuse holder B
- SC8 Fuse 8 on fuse holder C
- SB29 Fuse 29 on fuse holder B
- SC32 Fuse 32 on fuse holder C
- SC40 Fuse 40 on fuse holder C
- T12x 12-pin connector
- T40 40-pin connector

B273 Positive connection (15), in main wiring harness

B300 Positive connection 4 (30), in main wiring harness

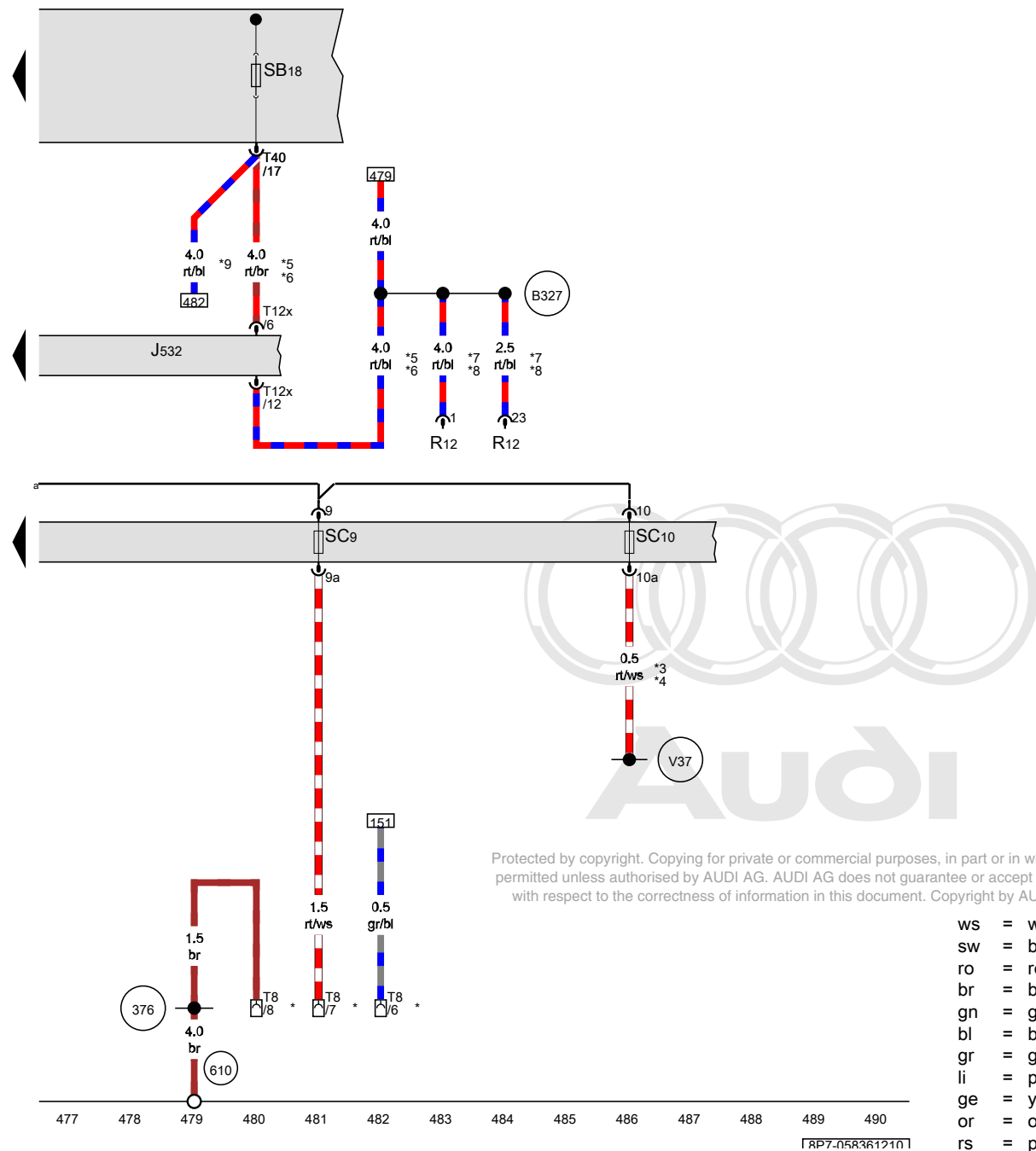
- * Only models with start/stop system
- *2 Only models with no start/stop system

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463 464 465 466 467 468 469 470 471 472 473 474 475 476

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Voltage stabiliser

- J532 Voltage stabiliser
- R12 Amplifier
- SC9 Fuse 9 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SB18 Fuse 18 on fuse holder B
- T8 8-pin connector
- T12x 12-pin connector
- T40 40-pin connector

- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), front below centre console
- B327 Positive connection 13 (30a) in main wiring harness
- V37 Positive connection (30), in communication wiring harness
- * Only models with preparation for radio
- *2 From May 2008
- *3 see applicable current flow diagram for preparation for mobile telephone
- *4 see applicable current flow diagram for radio/navigation system
- *5 Only models with 400 W voltage stabiliser
- *6 Only models with start/stop system
- *7 Only models with radio
- *8 Only models with radio navigation system
- *9 Only models with no start/stop system

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Convenience system

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

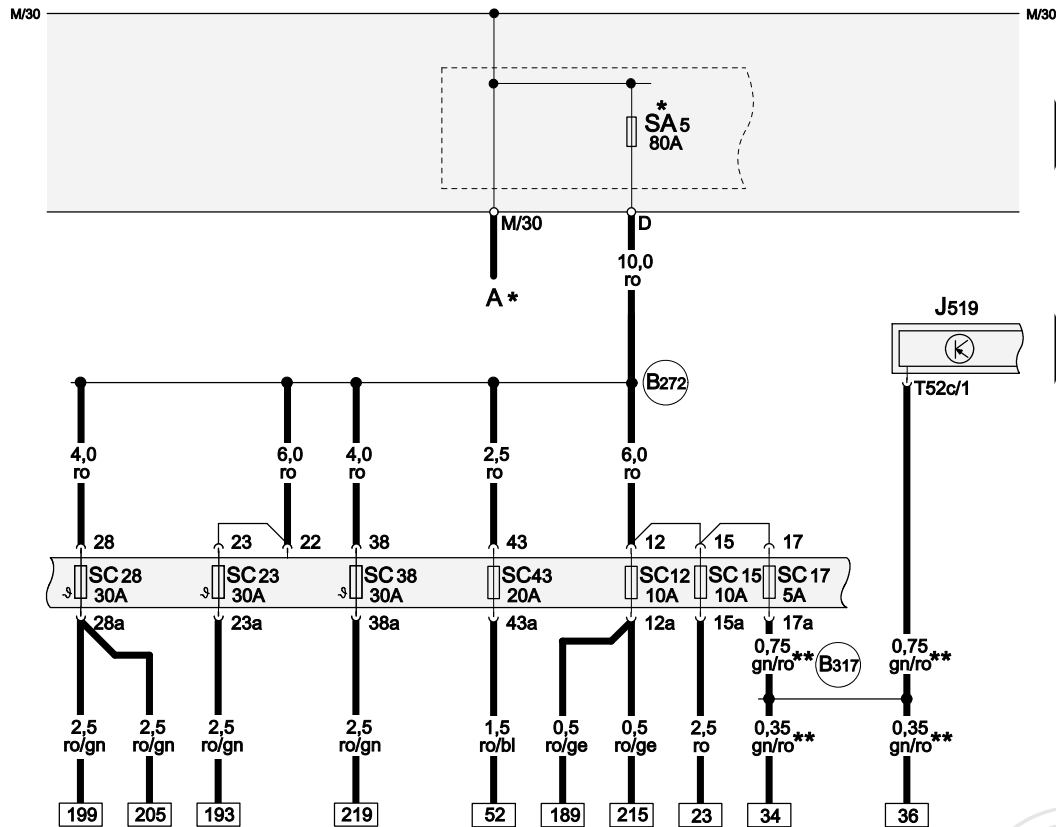
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses on fuse holder

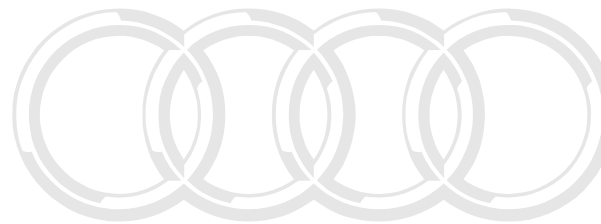
A	Battery
J519	Onboard supply control unit
SA5	Fuse 5 on fuse holder A
SC12	Fuse 12 on fuse holder C
SC15	Fuse 15 on fuse holder C
SC17	Fuse 17 on fuse holder C
SC23	Fuse 23 on fuse holder C
SC28	Fuse 28 on fuse holder C
SC38	Fuse 38 on fuse holder C
SC43	Fuse 43 on fuse holder C
T52c	52-pin connector, brown (connector C)

(B272) Positive connection (30), in main wiring harness

(B317) Positive connection 3 (30a), in main wiring harness

* ⇒ applicable Current Flow Diagram with battery in engine compartment

** for models with anti-theft alarm system only



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gn = green

bl = blue

gr = grey

ip = purple

ge = yellow

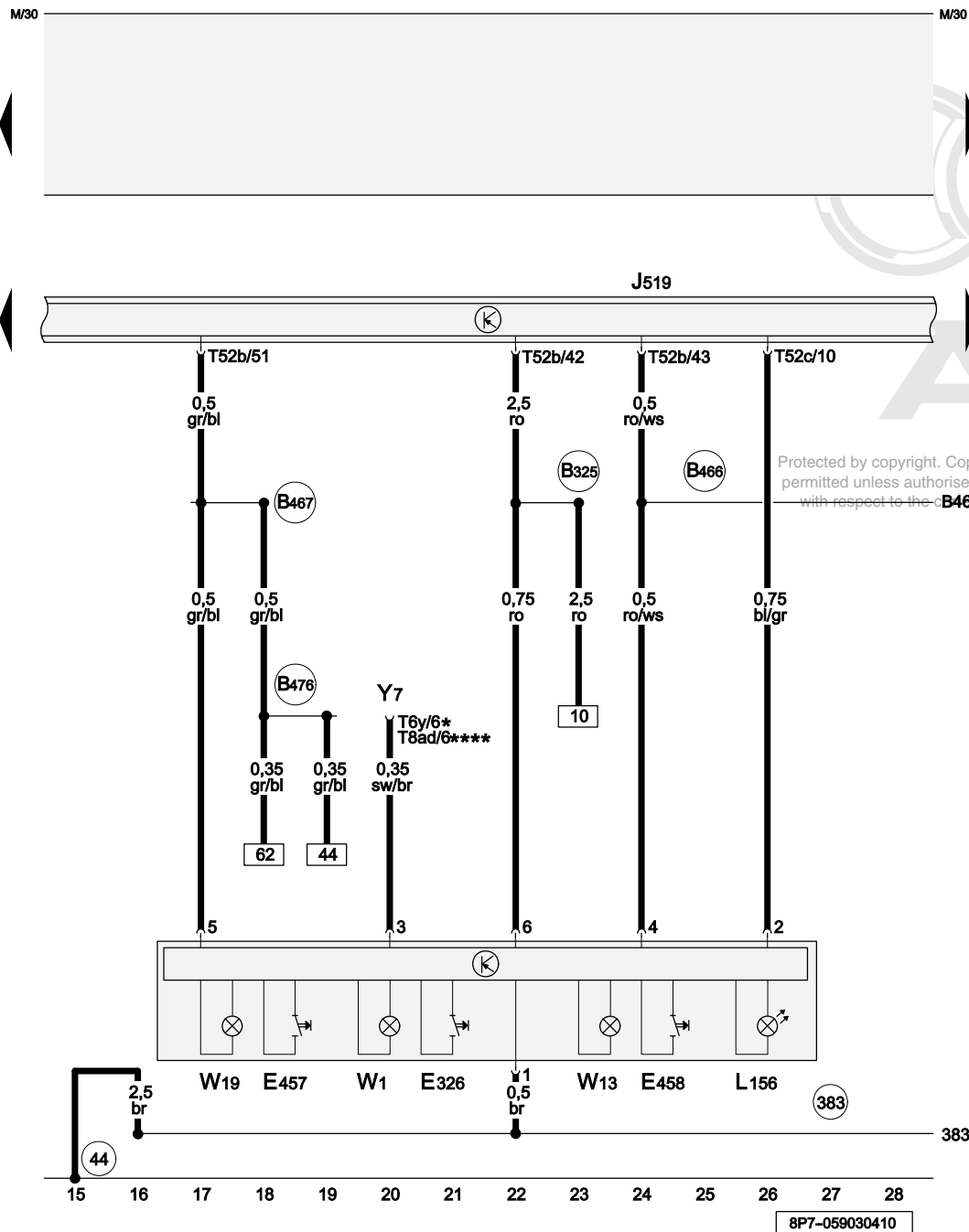
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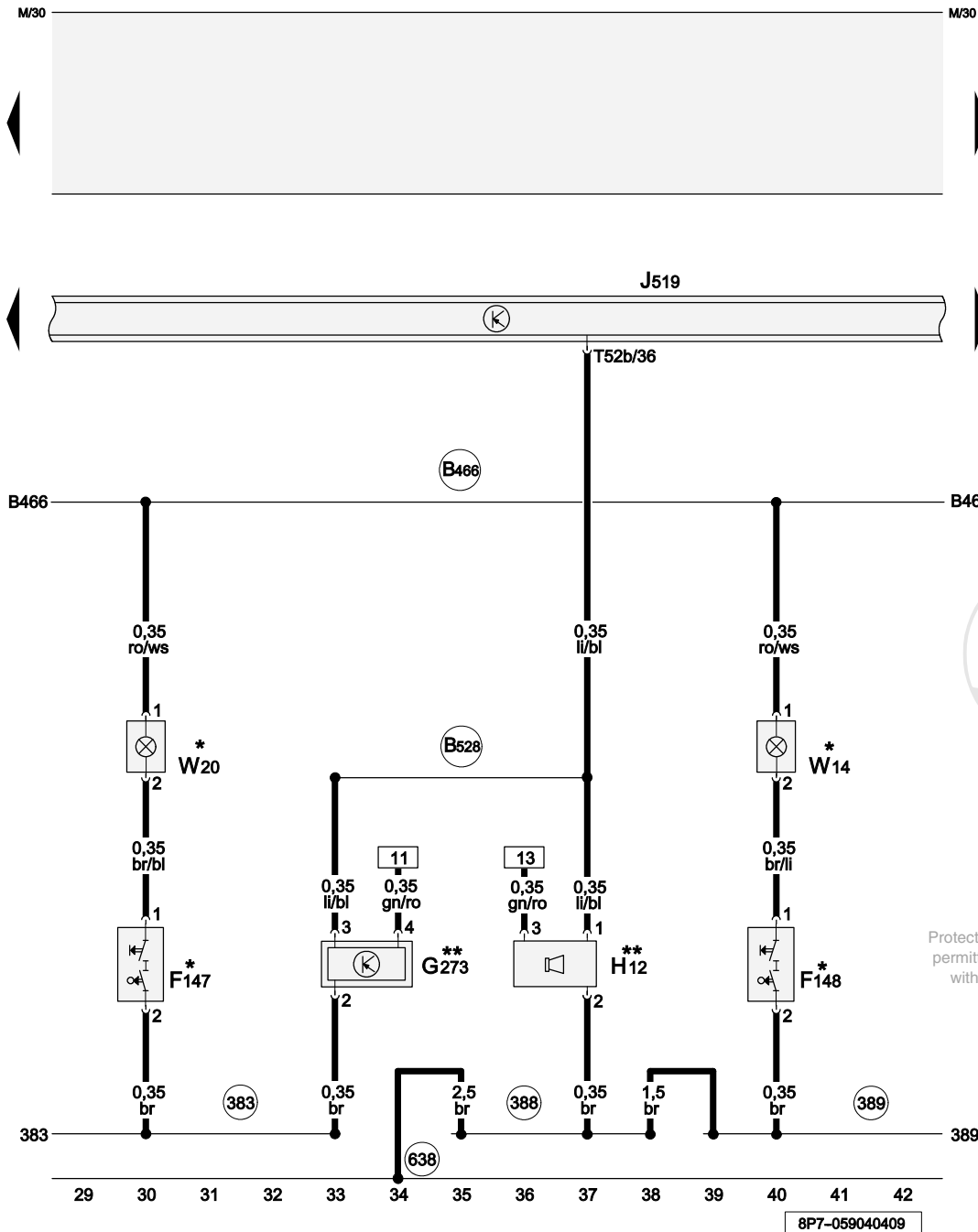


Front interior light with reading lights

- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- L156 Switch illumination bulb
- T6y 6-pin connector, black (connector A)
- T8ad 8-pin connector, black
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)
- W1 Front interior light
- W13 Front passenger side reading light
- W19 Driver side reading light
- Y7 Automatic anti-dazzle interior mirror

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- B325 Positive connection 11 (30a), in main wiring harness
- B466 Connection 2, in main wiring harness
- B467 Connection 3 in main wiring harness
- B476 Connection 12, in main wiring harness
- * for models without main beam assist only
- **** for models with main beam assist only

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Vanity mirror contact switch, interior monitoring sensor, alarm horn

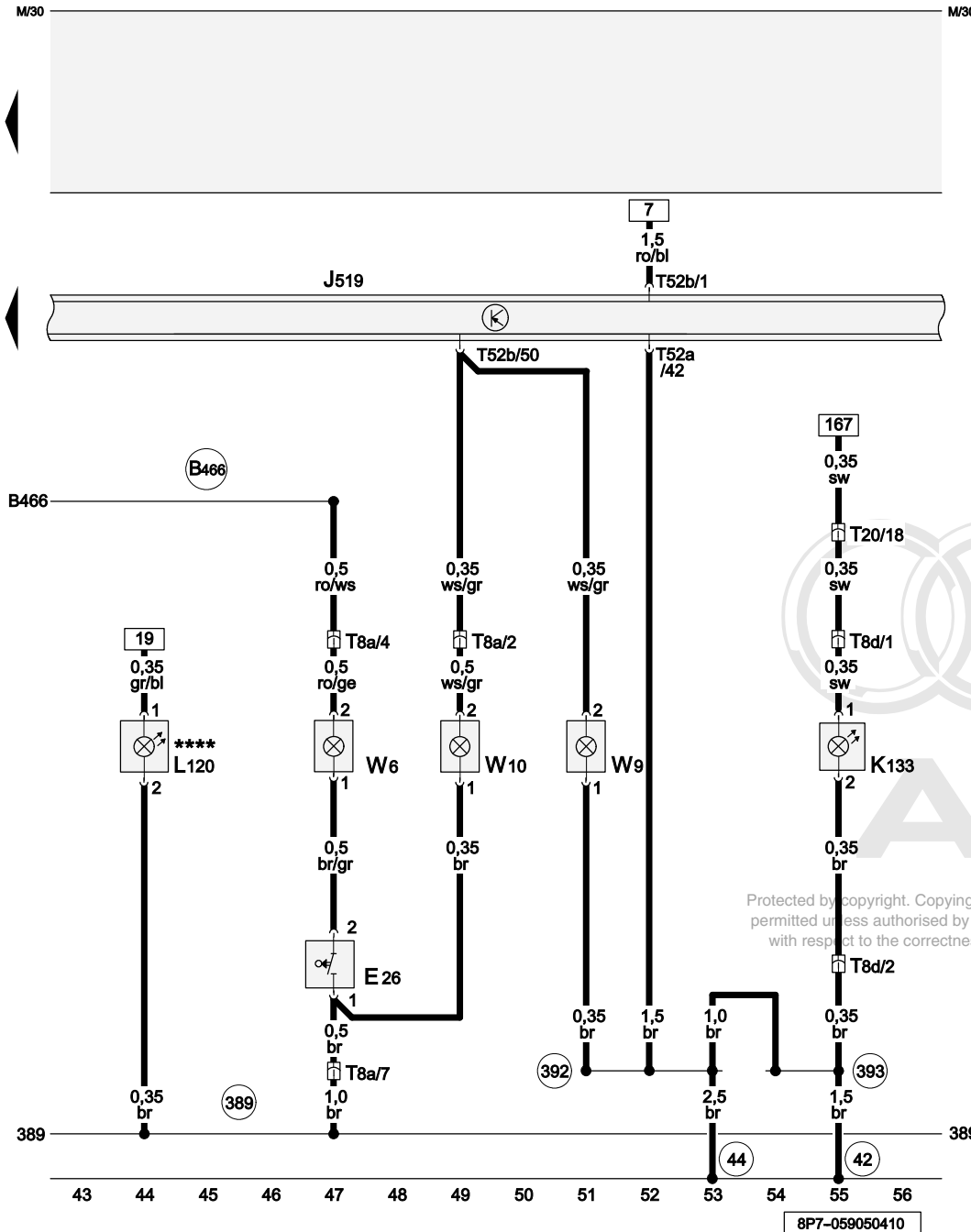
- F147 Driver vanity mirror contact switch
- F148 Front passenger side vanity mirror contact switch
- G273 Interior monitoring sensor
- H12 Alarm horn
- J519 Onboard supply control unit
- T52b 52-pin connector, white (connector B)
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror

- 383 Earth connection 18, in main wiring harness
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 638 Earth point, right A-pillar
- B466 Connection 2, in main wiring harness
- B528 Connection 1 (LIN bus), in main wiring harness

- * for models with illuminated vanity mirror without garage door operation only
- ** for models with anti-theft alarm system only

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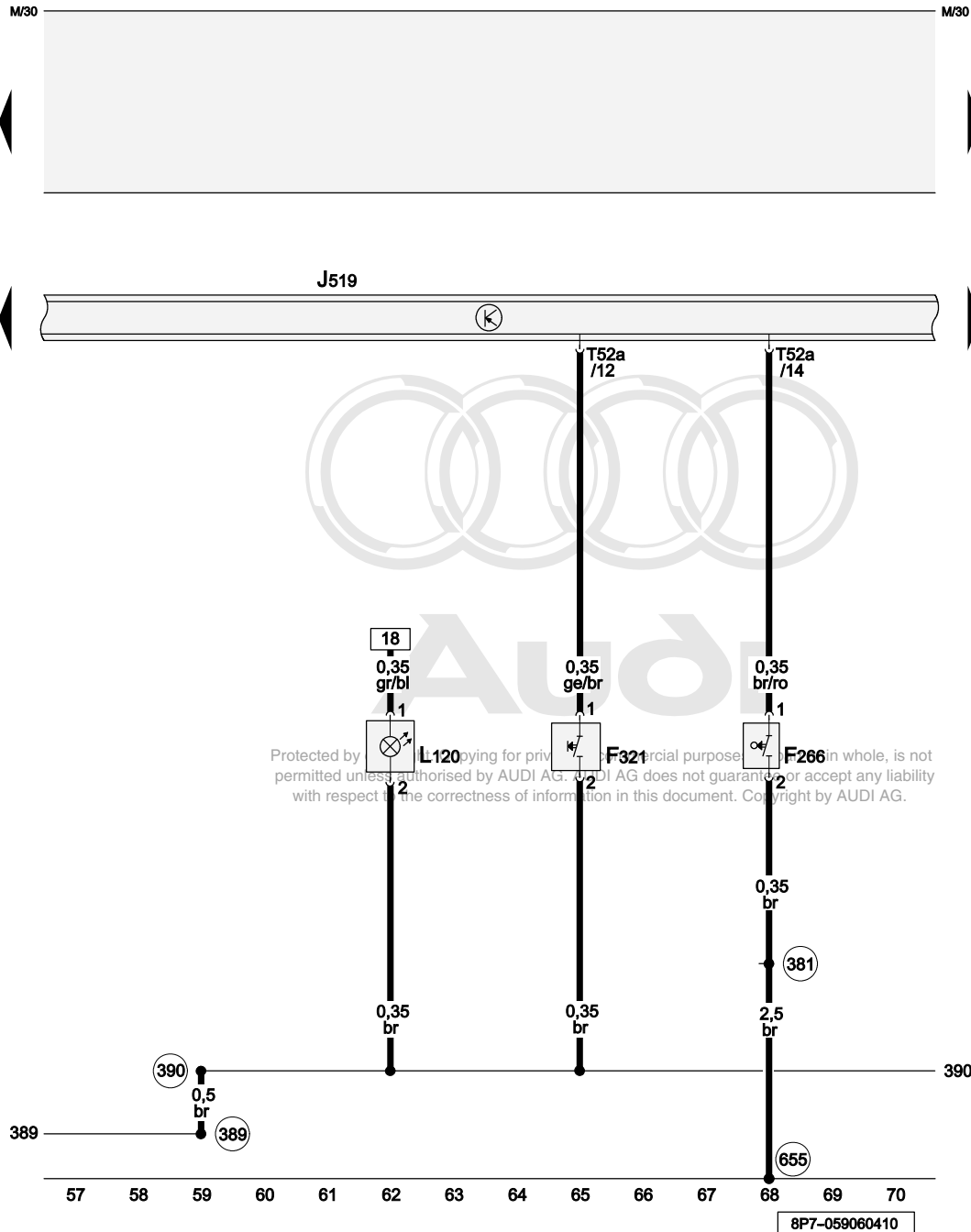
Storage compartment illumination, footwell lights, glove compartment light, central locking deadlock function warning lamp -SAFE-

- E26 Glove compartment light switch
- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- L120 Storage compartment illumination bulb
- T8a 8-pin connector, black, near glove compartment
- T8d 8-pin connector, black, behind centre console
- T20 20-pin connector, black, door A-pillar left
- T52a 52-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- W6 Glove compartment light
- W9 Left footwell light
- W10 Right footwell light

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 389 Earth connection 24, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B466 Connection 2, in main wiring harness
- **** no longer fitted, phased

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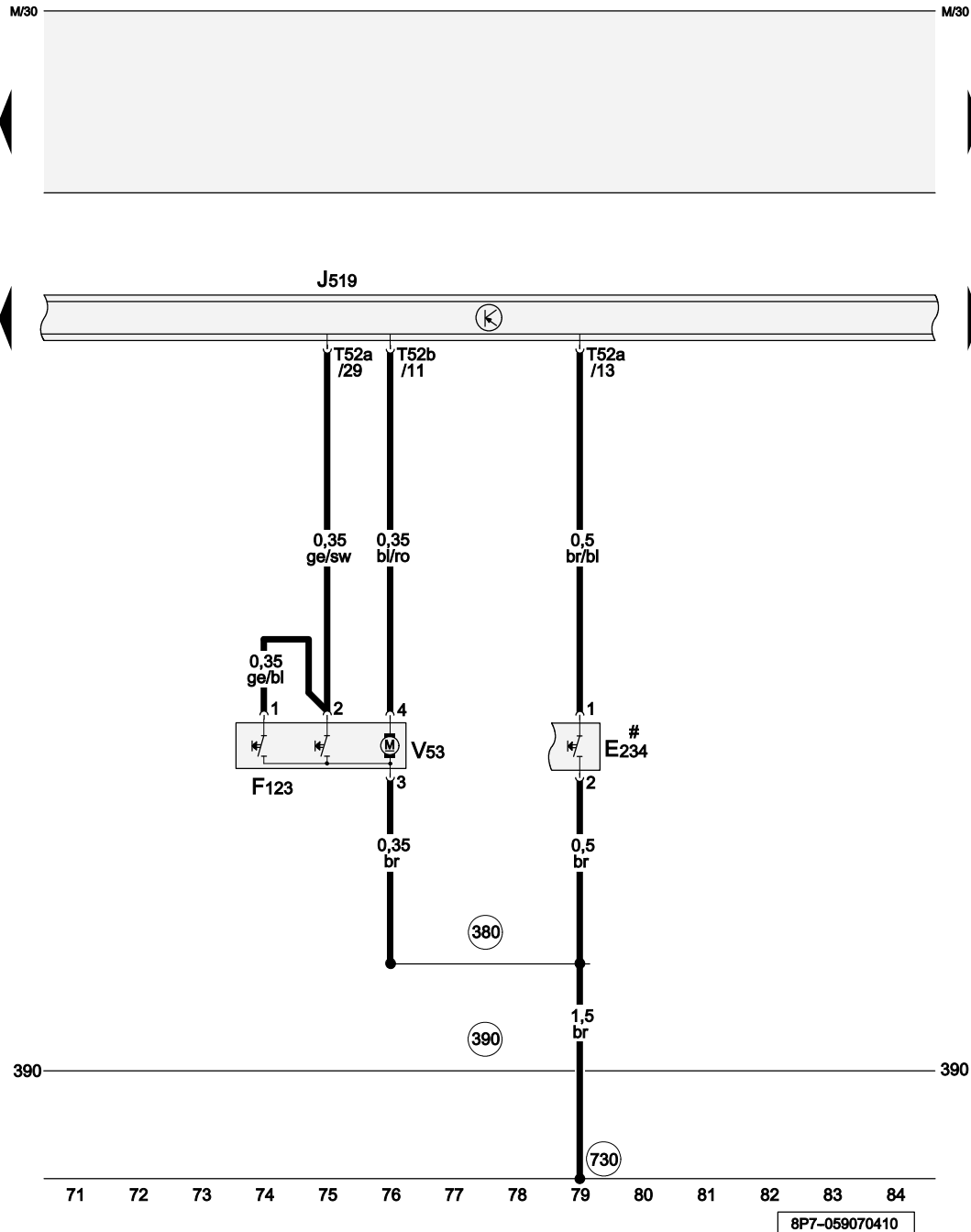


Storage compartment illumination, parking brake contact switch, bonnet contact switch

- F266 Bonnet contact switch
- F321 Parking brake contact switch
- J519 Onboard supply control unit
- L120 Storage compartment illumination bulb
- T52a 52-pin connector, black (connector A)

- 381 Earth connection 16, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 655 Earth point, on left headlight

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Rear lid handle release button, rear lid contact switch for anti-theft alarm, rear lid central locking motor

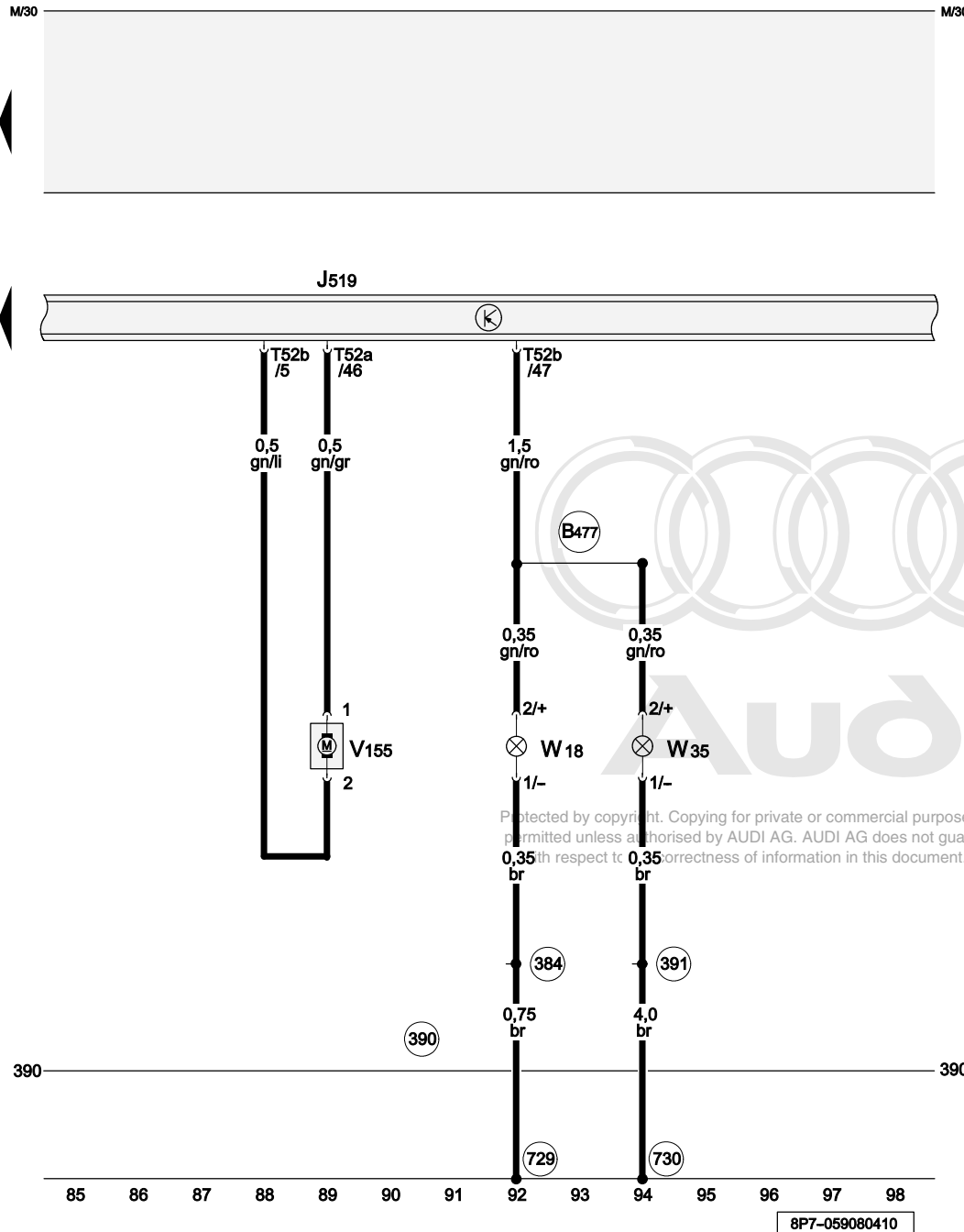
- E234 Rear lid handle release button
- F123 Rear lid contact switch for anti-theft alarm system
- J519 Onboard supply control unit
- T52a 52-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- V53 Rear lid central locking motor

- 380 Earth connection 15, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 730 Earth point 1, on rear right wheel housing

F248 is replaced by E234

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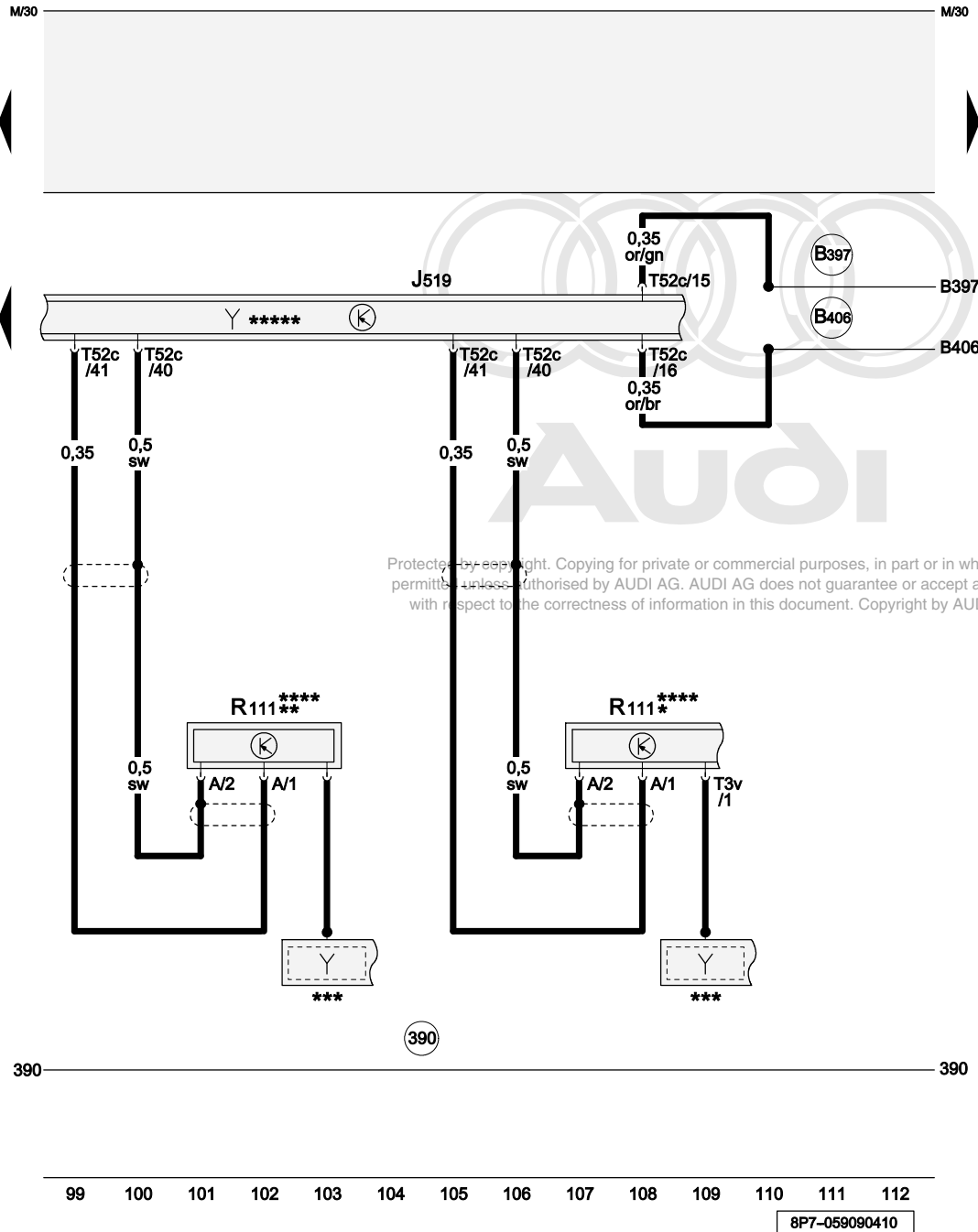


Tank filler flap locking motor, luggage compartment lights

- J519 Onboard supply control unit
- T52a 52-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- V155 Tank filler flap locking motor
- W18 Luggage compartment light on left
- W35 Right luggage compartment light

- 384 Earth connection 19, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 729 Earth point, on rear left wheel housing
- 730 Earth point 1, on rear right wheel housing
- B477 Connection 13, in main wiring harness

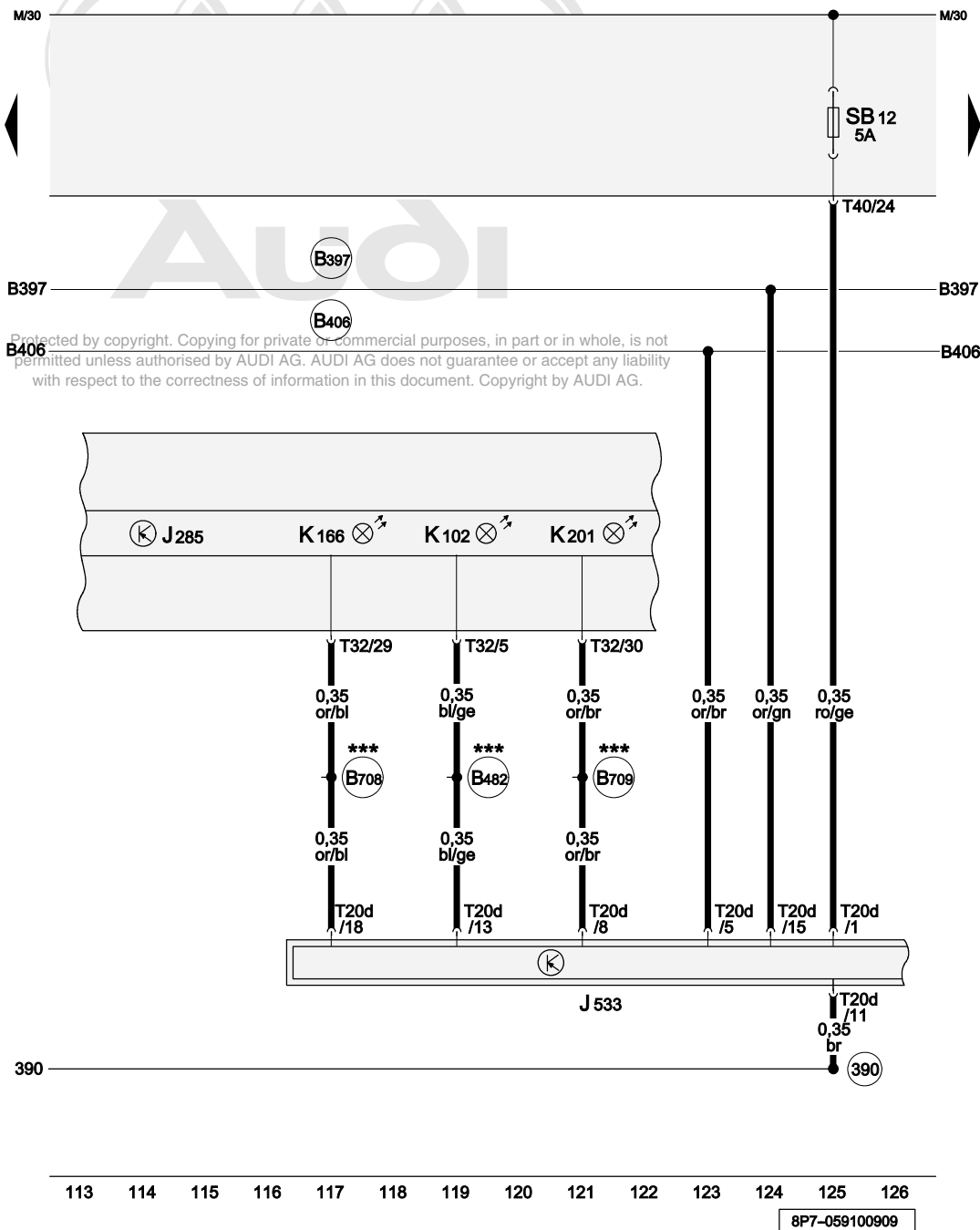
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Right windscreen aerial

- J519 Onboard supply control unit
- R111 Aerial amplifier 2
- T3v 3-pin connector
- T52c 52-pin connector, brown (connector C)

- 390 Earth connection 25, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * for models with radio or radio navigation system only
- ** not for models with radio or radio navigation system
- *** on right windscreen
- **** is dropped from May 2010
- ***** Central locking aerial integrated in J519, applicable from May 2010

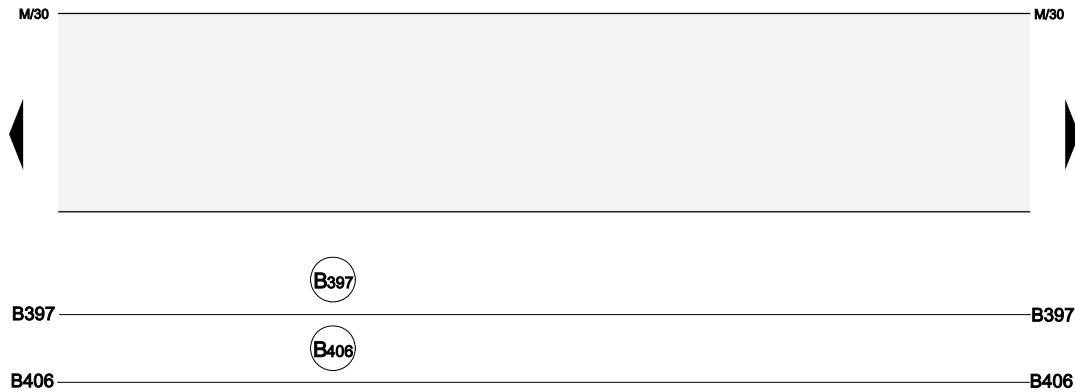


Control unit in dash panel insert, data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K102 Rear lid closed warning lamp
- K166 Door open warning lamp
- K201 Fuel tank flap lock warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 390 Earth connection 25, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus, high), in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus, low), in main wiring harness
- *** No longer fitted, phased-in modification

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Driver side central locking lock unit

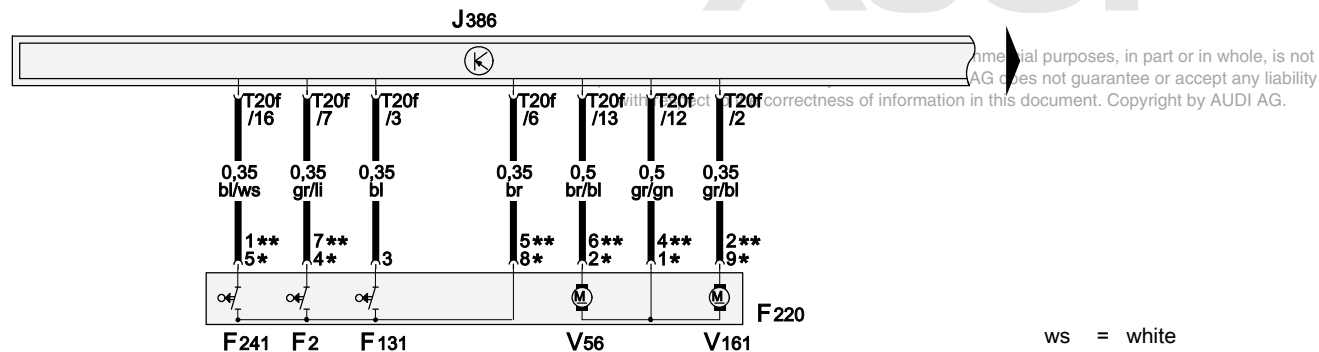
- F2 Driver door contact switch
- F131 Front left central locking actuator
- F220 Driver side central locking lock unit
- F241 Driver side contact switch in lock cylinder
- J386 Driver door control unit
- T20f 20-pin connector, black (connector A)
- V56 Driver door central locking motor
- V161 Driver door central locking deadlock function motor

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* No longer fitted, phased-in modification

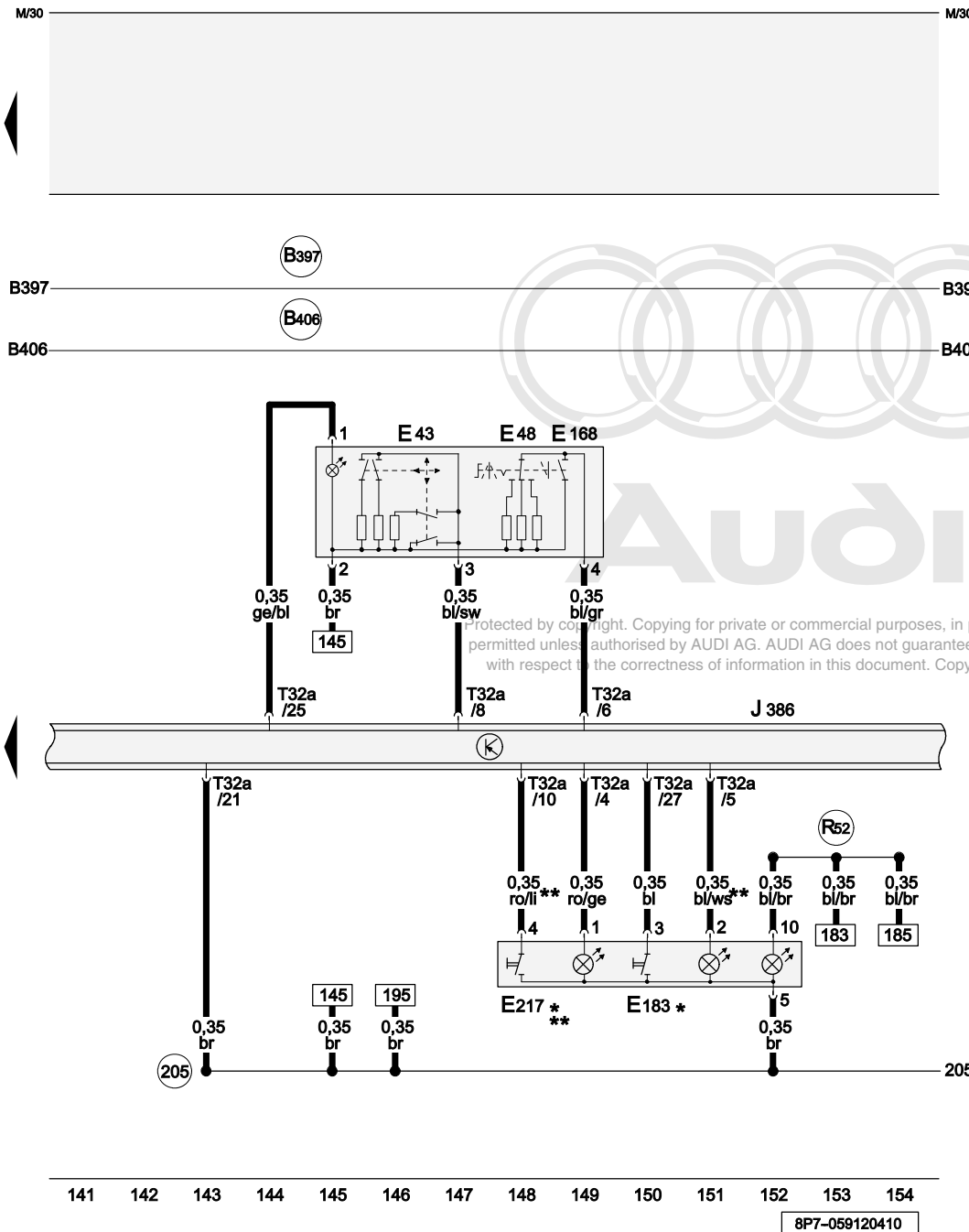
** phased-in modification



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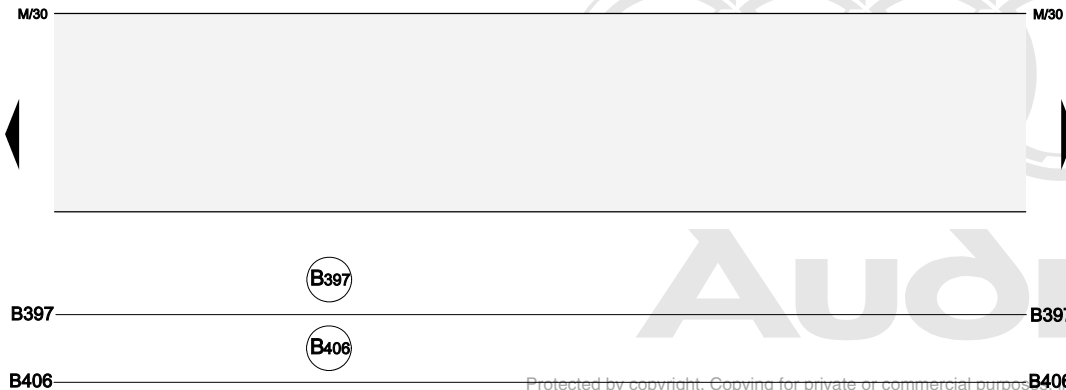
Mirror adjustment switch, alarm system off switch

- E43 Mirror adjustment switch
- E48 Mirror adjustment change-over switch
- E168 Adjustment switch for mirror with fold-in feature
- E183 Interior monitoring deactivation switch
- E217 Alarm system off switch
- J386 Driver door control unit
- T32a 32-pin connector, grey (connector C)

- 205 Earth connection, in driver door wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- R52 Connection (58s), in driver side door wiring harness

- * for models with interior monitor only
- ** is dropped from May 2010

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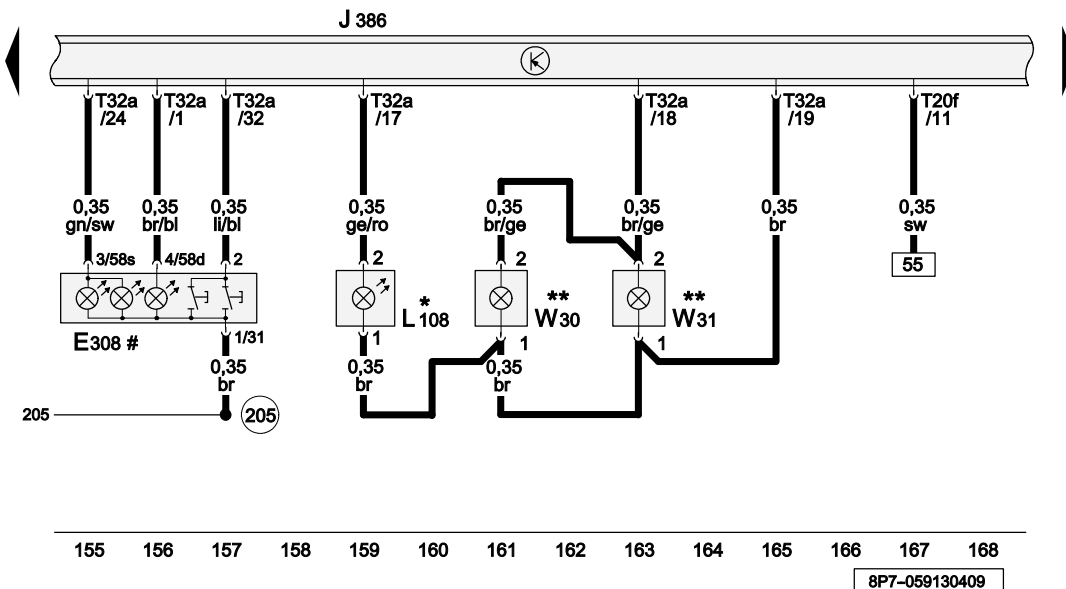
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Front left entry light, interior locking button, driver side, door warning lamp, driver side, driver door opener illumination

- E308 Driver side interior locking button
- J386 Driver door control unit
- L108 Driver door opener illumination bulb
- T20f 20-pin connector, black (connector A)
- T32a 32-pin connector, grey (connector C)
- W30 Driver side door warning lamp
- W31 Front left entry light

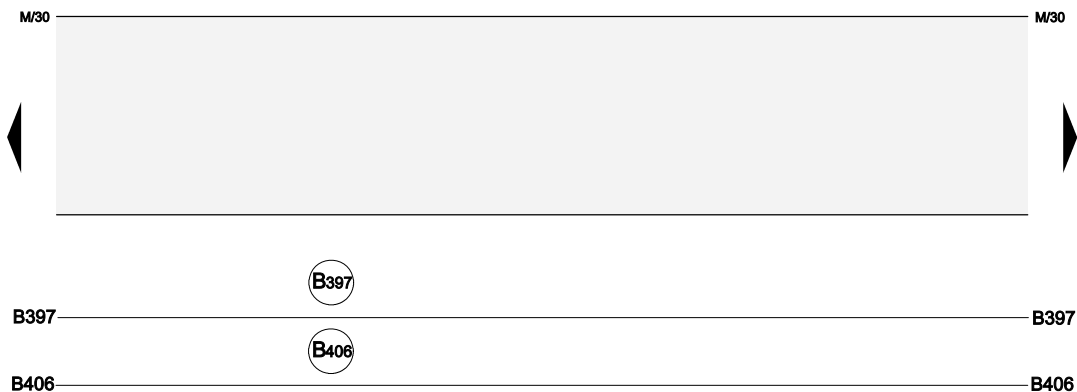
- 205 Earth connection, in driver door wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models with door opener illumination only
- ** for models with entry warning lamp and door warning lamp only
- # E150 is replaced by E308



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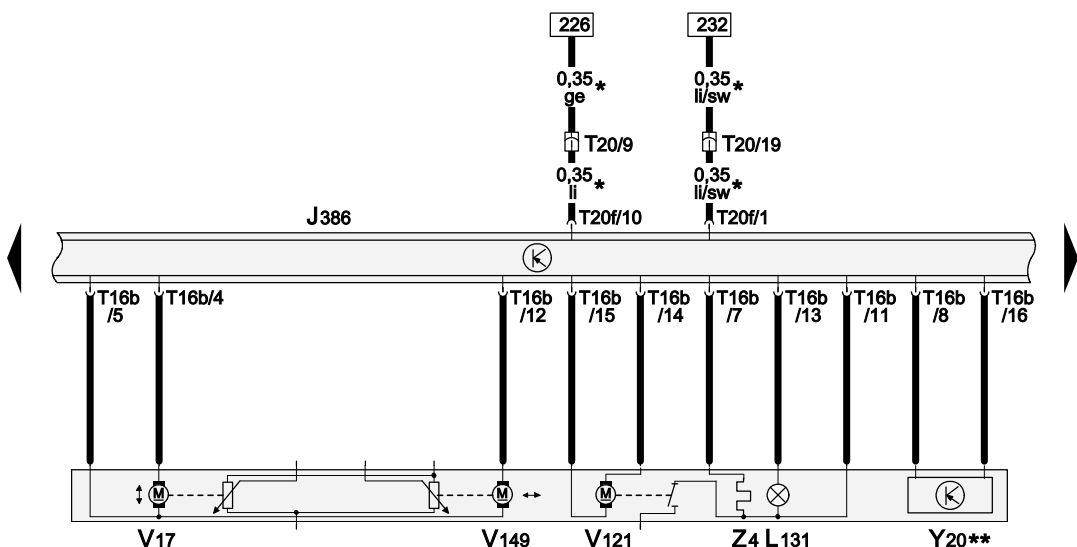
Driver side mirror adjustment motor/fold-in mirror motor,
driver side exterior mirror turn signal bulb

- J386 Driver door control unit
- L131 Driver side exterior mirror turn signal bulb
- T16b 16-pin connector, (connector B)
- T20 20-pin connector, black, door A-pillar left
- T20f 20-pin connector, black (connector A)
- V17 Driver side mirror adjustment motor
- V121 Driver side fold-in mirror motor
- V149 Driver side mirror adjustment motor
- Y20 Driver side automatic anti-dazzle exterior mirror
- Z4 Driver side heated exterior mirror

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

- * for models with automatic anti-dazzle interior mirror only
- ** for models with automatic anti-dazzle exterior mirror only

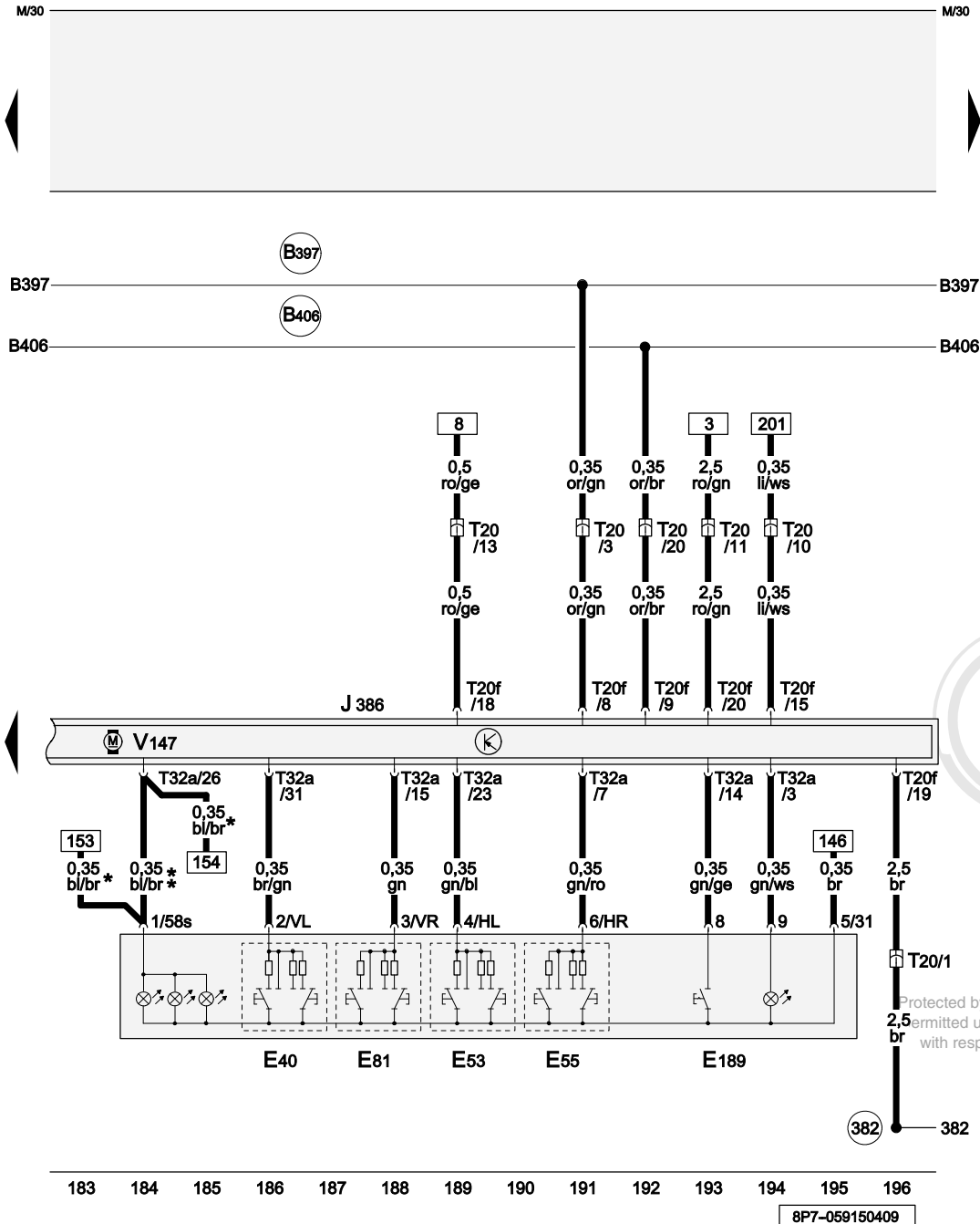


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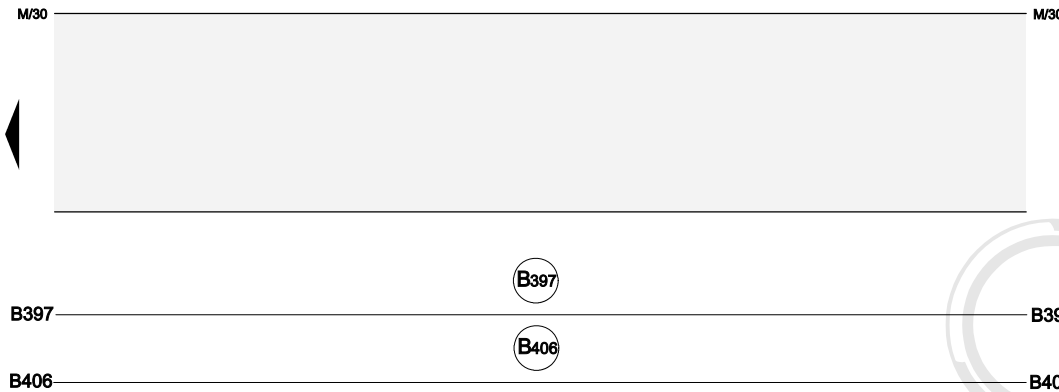


Window regulator switch, driver side

- E40 Front left window regulator switch
- E53 Rear left window regulator switch, in driver door
- E55 Rear right window regulator switch, in driver door
- E81 Front right window regulator switch in driver door
- E189 Central switch for window regulators in driver door
- J386 Driver door control unit
- T20 20-pin connector, black, door A-pillar left
- T20f 20-pin connector, black (connector A)
- T32a 32-pin connector, grey (connector C)
- V147 Driver side window regulator motor

- 382 Earth connection 17, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * for models with interior monitor only
- ** for models without interior monitor only

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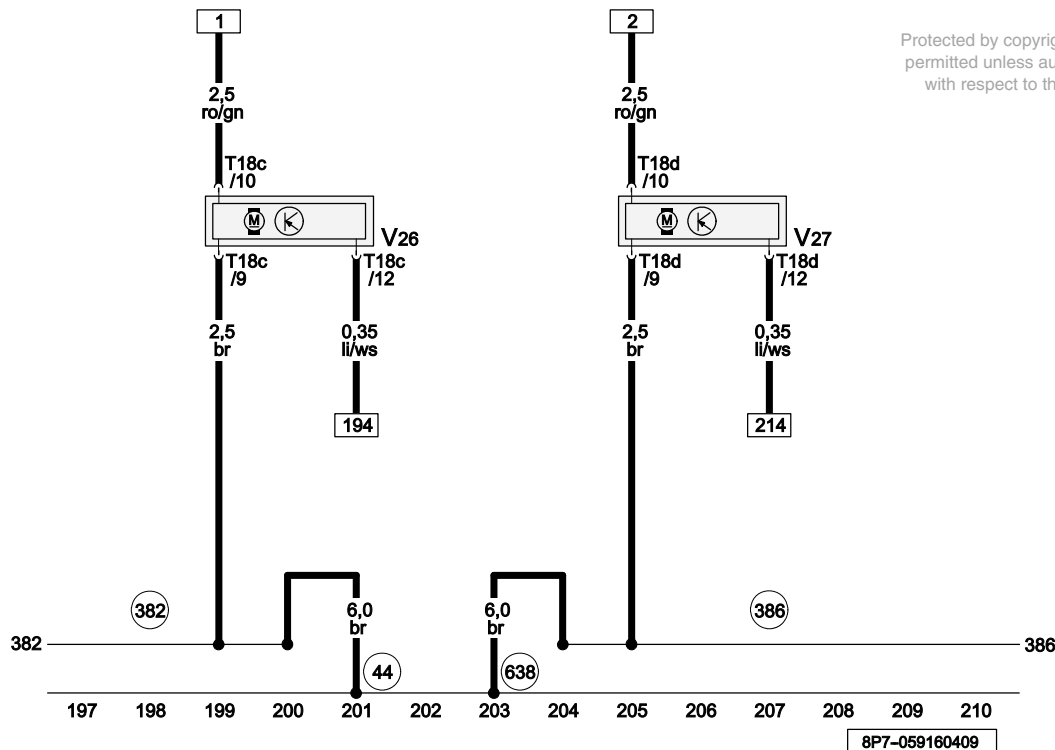


Rear window regulator motor

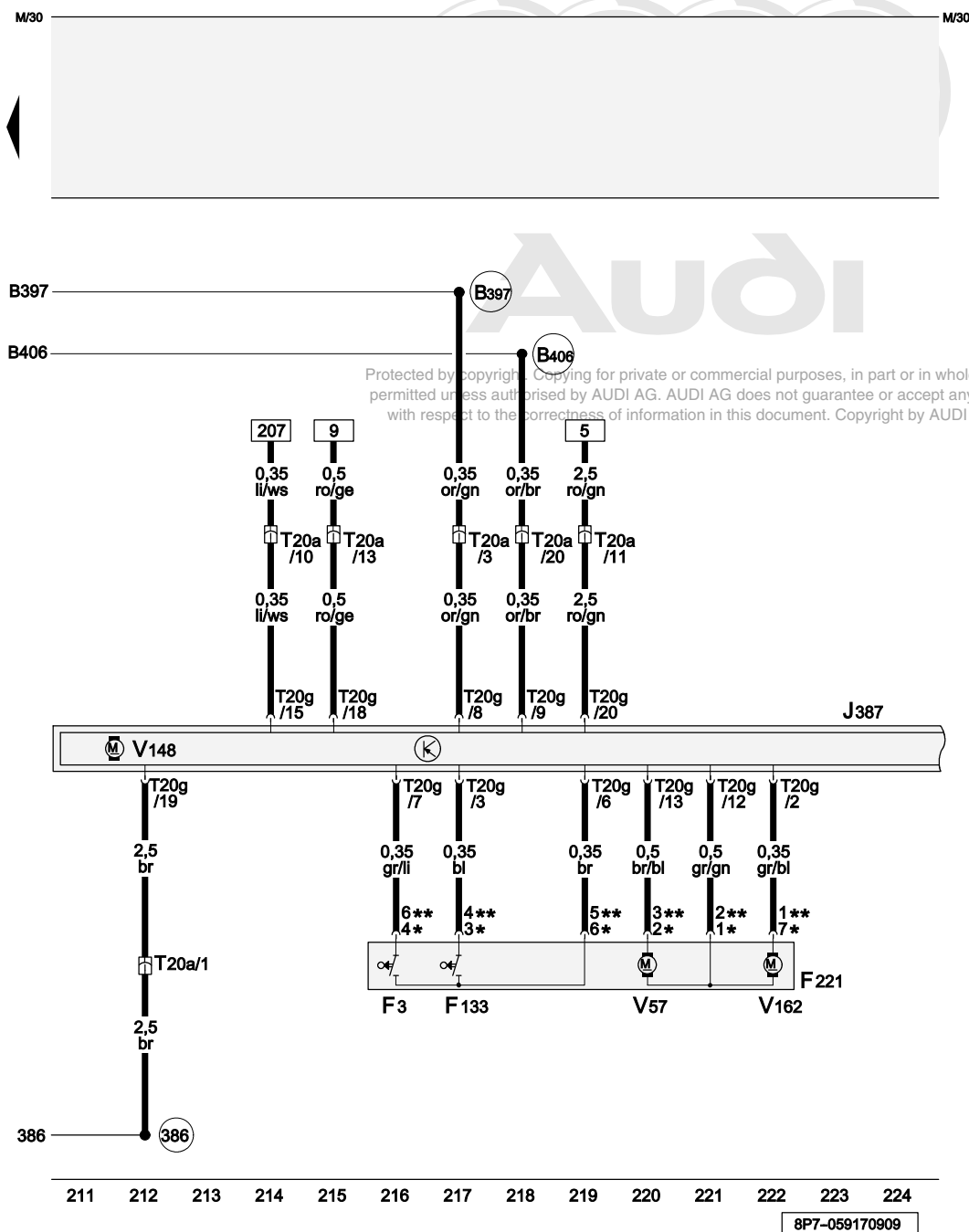
- T18c 18-pin connector, white (connector A)
- T18d 18-pin connector, white (connector A)
- V26 Rear left window regulator motor
- V27 Rear right window regulator motor

- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 386 Earth connection 21, in main wiring harness
- 638 Earth point, right A-pillar
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

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Front passenger side central locking lock unit

- F3 Front passenger door contact switch
- F133 Front right central locking actuator
- F221 Front passenger side central locking lock unit
- J387 Front passenger side door control unit
- T20a 20-pin connector, black, door A-pillar right
- T20g 20-pin connector, black (connector A)
- V57 Front passenger door central locking motor
- V148 Front passenger side window regulator motor
- V162 Front passenger door central locking deadlock function motor

- 386 Earth connection 21, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * No longer fitted, phased-in modification
- ** phased-in modification

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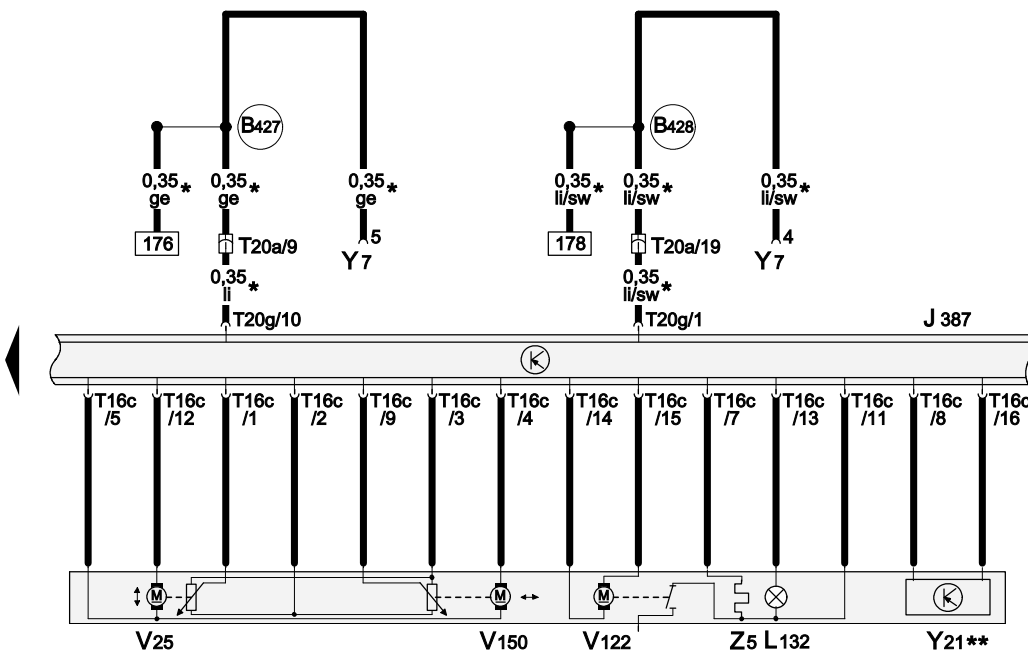
Front passenger side mirror adjustment motor/fold-in mirror motor, front passenger side exterior mirror turn signal bulb

- J387 Front passenger side door control unit
- L132 Front passenger side exterior mirror turn signal bulb
- T16c 16-pin connector, (connector B)
- T20a 20-pin connector, black, door A-pillar right
- T20g 20-pin connector, black (connector A)
- V25 Front passenger side mirror adjustment motor
- V122 Front passenger side fold-in mirror motor
- V150 Front passenger side mirror adjustment motor
- Y7 Automatic anti-dazzle interior mirror
- Y21 Front passenger side automatic anti-dazzle exterior mirror
- Z5 Front passenger side heated exterior mirror

B427 Connection 1 (mirror signal), in main wiring harness

B428 Connection 2 (mirror signal), in main wiring harness

- * for models with automatic anti-dazzle interior mirror only
- ** for models with automatic anti-dazzle exterior mirror only



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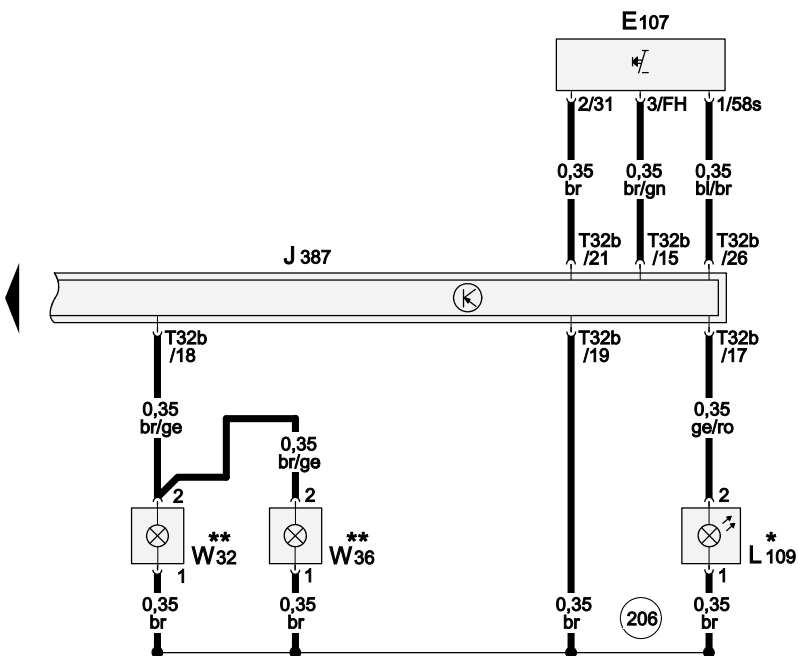
Front right entry light, front passenger side door warning lamp, window regulator switch in front passenger door, front passenger door opener illumination

- E107 Window regulator switch in front passenger door
- J387 Front passenger side door control unit
- L109 Front passenger door opener illumination bulb
- T32b 32-pin connector, grey (connector C)
- W32 Front right entry light
- W36 Front passenger side door warning lamp

206 Earth connection, in door wiring harness, front passenger side

- * for models with door opener illumination only
- ** for models with entry warning lamp and door warning lamp only

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Preparation for mobile telephone without hands-free system control unit (VDA interface)

from May 2009

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

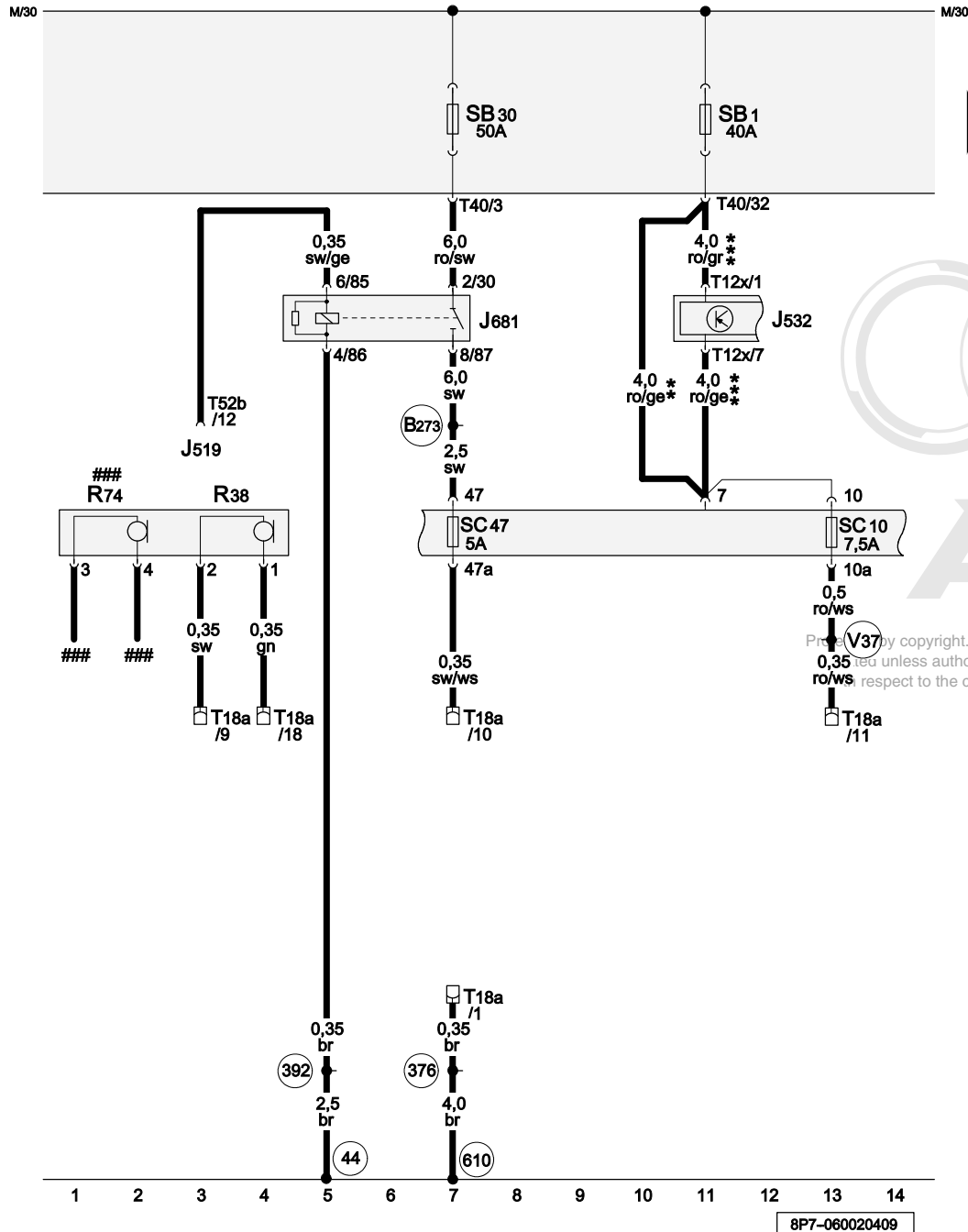
- ◆ Fault Finding Programs

⇒ guided fault finding



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Telephone microphone, terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J532 Voltage stabiliser
- J681 Terminal 15 voltage supply relay 2
- R38 Telephone microphone
- R74 Internal microphone
- SB1 Fuse 1 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC10 Fuse 10 on fuse holder C
- SC47 Fuse 47 on fuse holder C
- T12x 12-pin connector, black (connector A)
- T18a 18-pin connector, near glove compartment (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)

- 44 Earth point, lower part of left A-pillar
- 376 Earth connection 11, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 610 Earth point (audio), under centre console, front
- 6273 Positive connection (15), in main wiring harness
- V37 Positive connection (30), in communication wiring harness
- ** only models without stop/start system
- *** only models with stop/start system
- ### for models with Bose sound system only

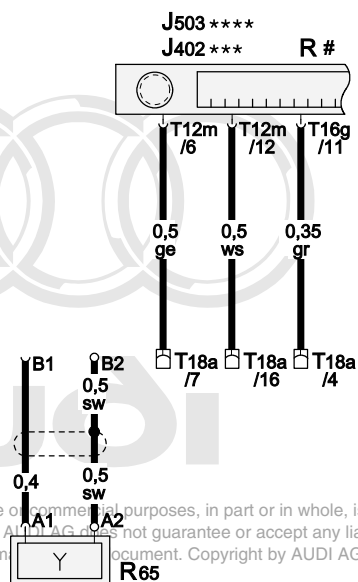
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
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 or = orange
 rs = pink

8P7-060020409



Muting, telephone aerial

- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation system
- R Radio
- R65 Telephone aerial
- T12m 12-pin connector, black (connector C, connector locking green)
- T16g 16-pin connector, black (connector D)
- T18a 18-pin connector, near glove compartment (connector A)
- *** for models with radio navigation system RNS-E only
- **** for models with radio navigation system RNS-low only
- # for models with radiogeneration II plus only



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15 16 17 18 19 20 21 22 23 24 25 26 27 28

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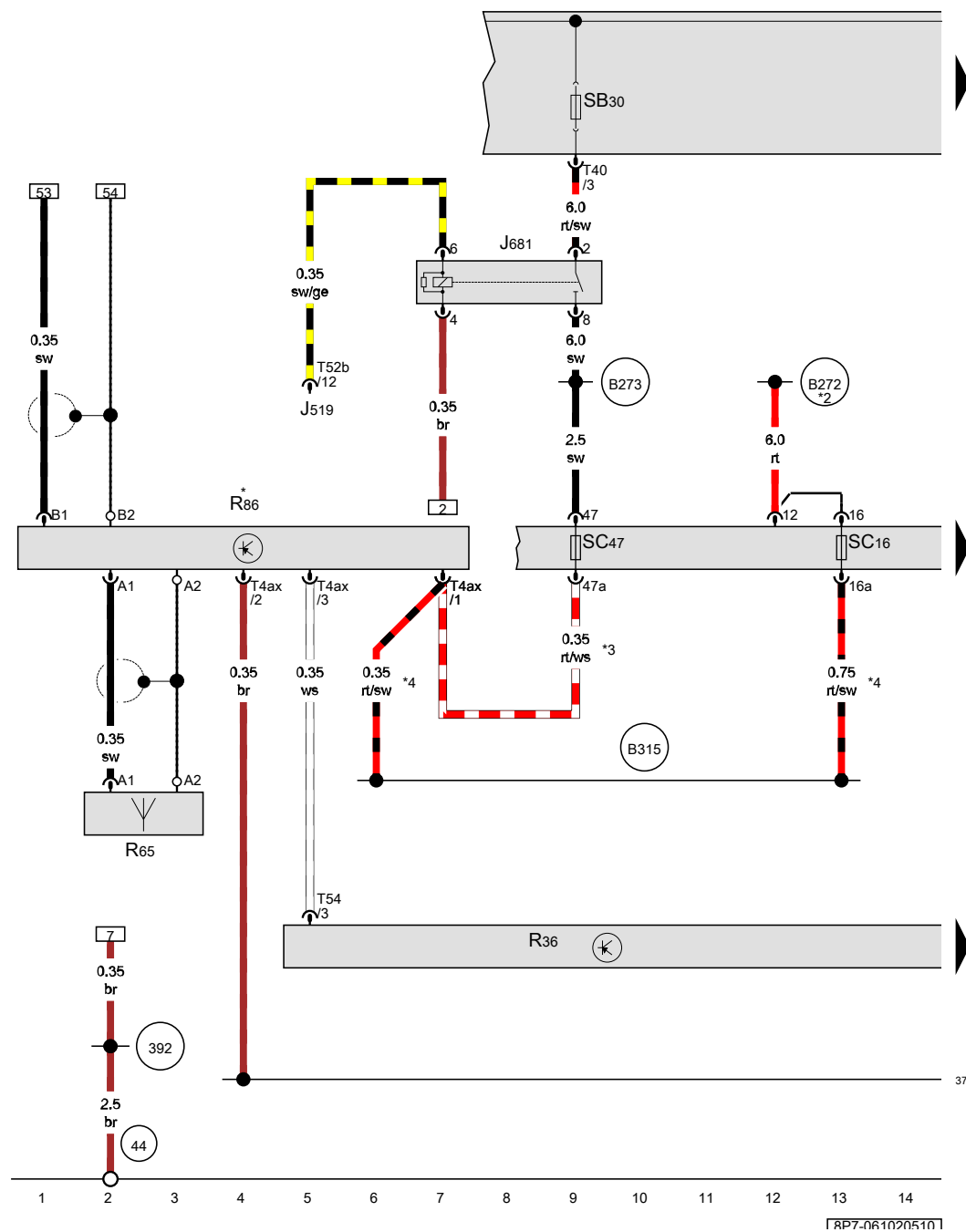


Preparation for mobile telephone

From May 2009



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Terminal 15 voltage supply relay 2, Telephone transmitter and receiver unit, Telephone aerial, Aerial amplifier for mobile telephone

J519	Onboard supply control unit
J681	Terminal 15 voltage supply relay 2
R36	Telephone transmitter and receiver unit
R65	Telephone aerial
R86	Aerial amplifier for mobile telephone
SC16	Fuse 16 on fuse holder C
SB30	Fuse 30 on fuse holder B
SC47	Fuse 47 on fuse holder C
T4ax	4-pin connector
T40	40-pin connector
T52b	52-pin connector
T54	54-pin connector

44 Earth point, lower part of left A-pillar

44 Earth point, lower part of left A-pillar

(376) Earth connection 11, in main wiring harness

(392) Earth connection 27, in main wiring harness

(B272) Positive connection (30), in main wiring harness

(B273) Positive connection (15), in main wiring harness

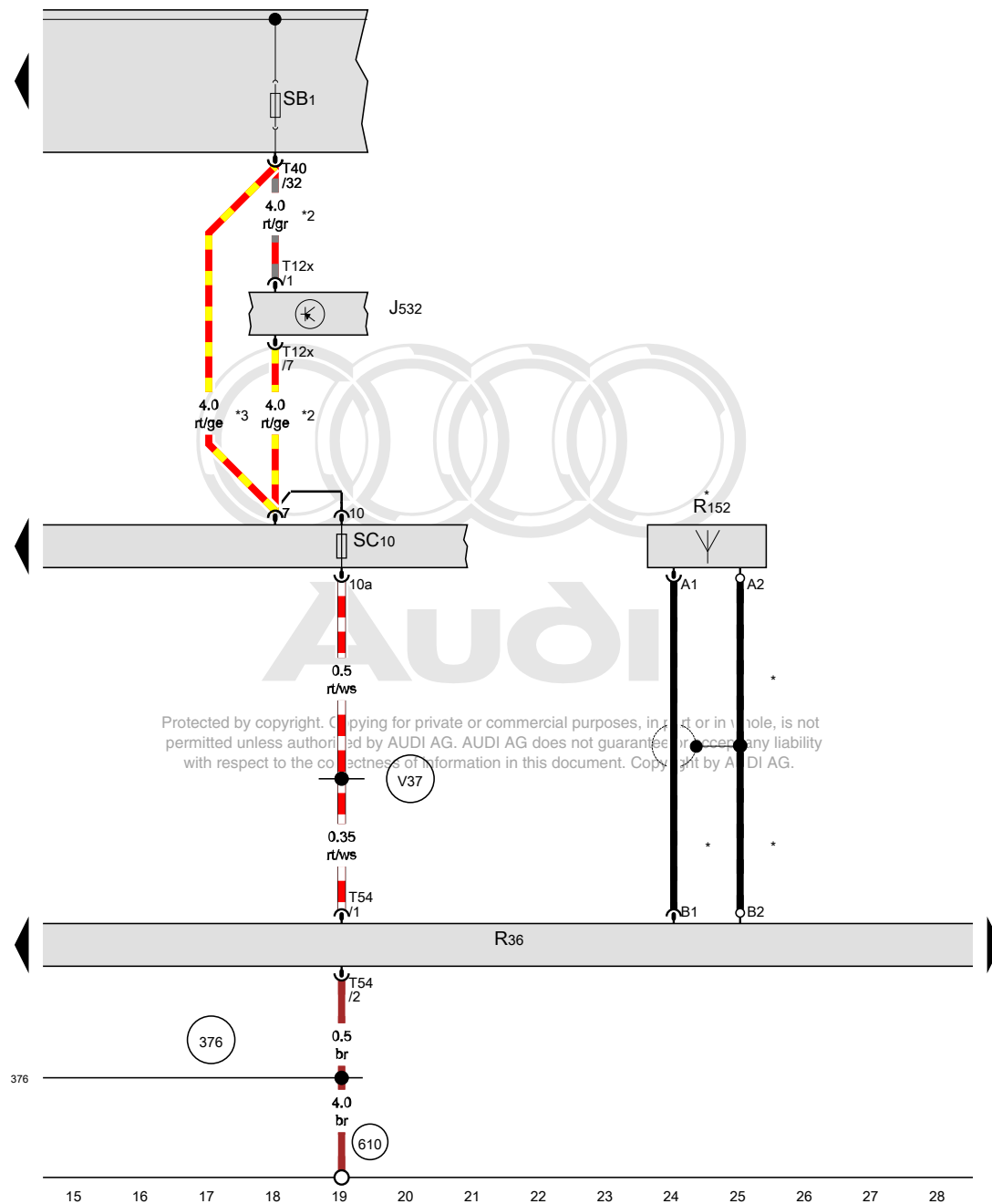
(B315) Positive connection 1 (30a) in main wiring harness

- * Not for American markets
- *2 see applicable current flow diagram for battery in engine compartment
- *3 Gradually discontinued
- *4 gradual introduction

*3 Gradually discontinued

*4 gradual introduction

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Voltage stabiliser, Telephone transmitter and receiver unit, Aerial for Bluetooth

- J532 Voltage stabiliser
- R36 Telephone transmitter and receiver unit
- R152 Aerial for Bluetooth
- SB1 Fuse 1 on fuse holder B
- SC10 Fuse 10 on fuse holder C
- T12x 12-pin connector
- T40 40-pin connector
- T54 54-pin connector

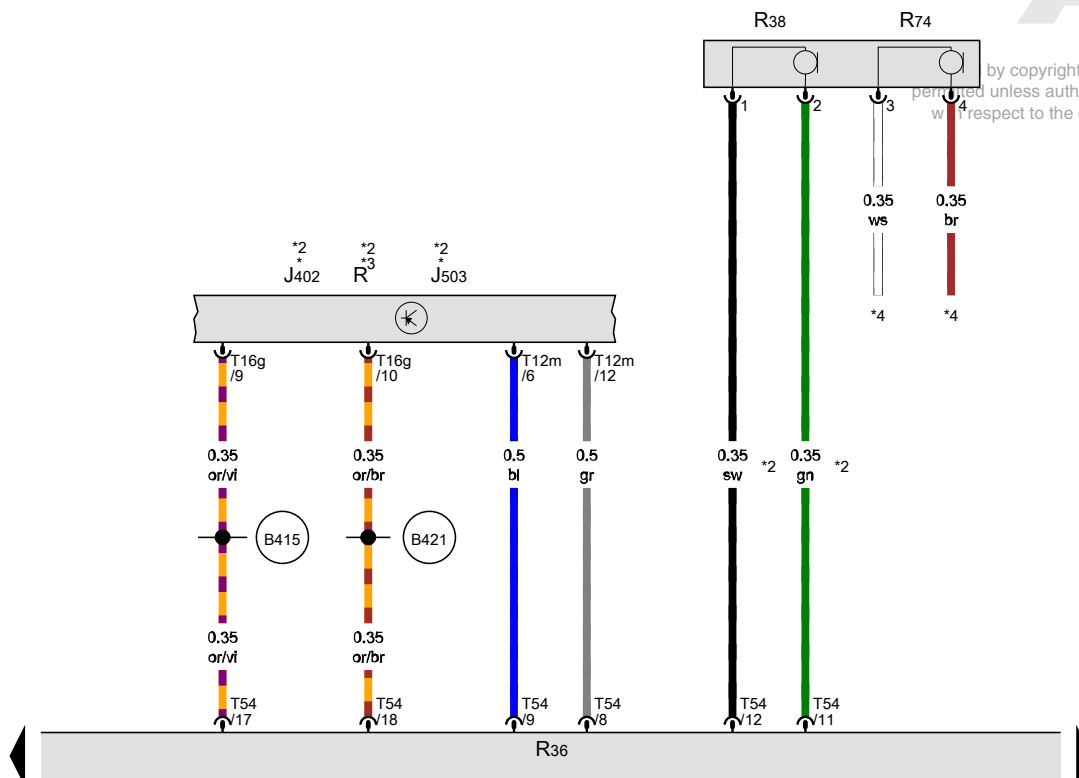
- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), front below centre console
- V37 Positive connection (30), in communication wiring harness

- * Only models with aerial for Bluetooth
- *2 Only models with stop/start system
- *3 Only models with no start/stop system

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- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Navigation operating electronics control unit, Control unit with display for radio and navigation, Radio, Telephone transmitter and receiver unit, Telephone microphone, Internal microphone

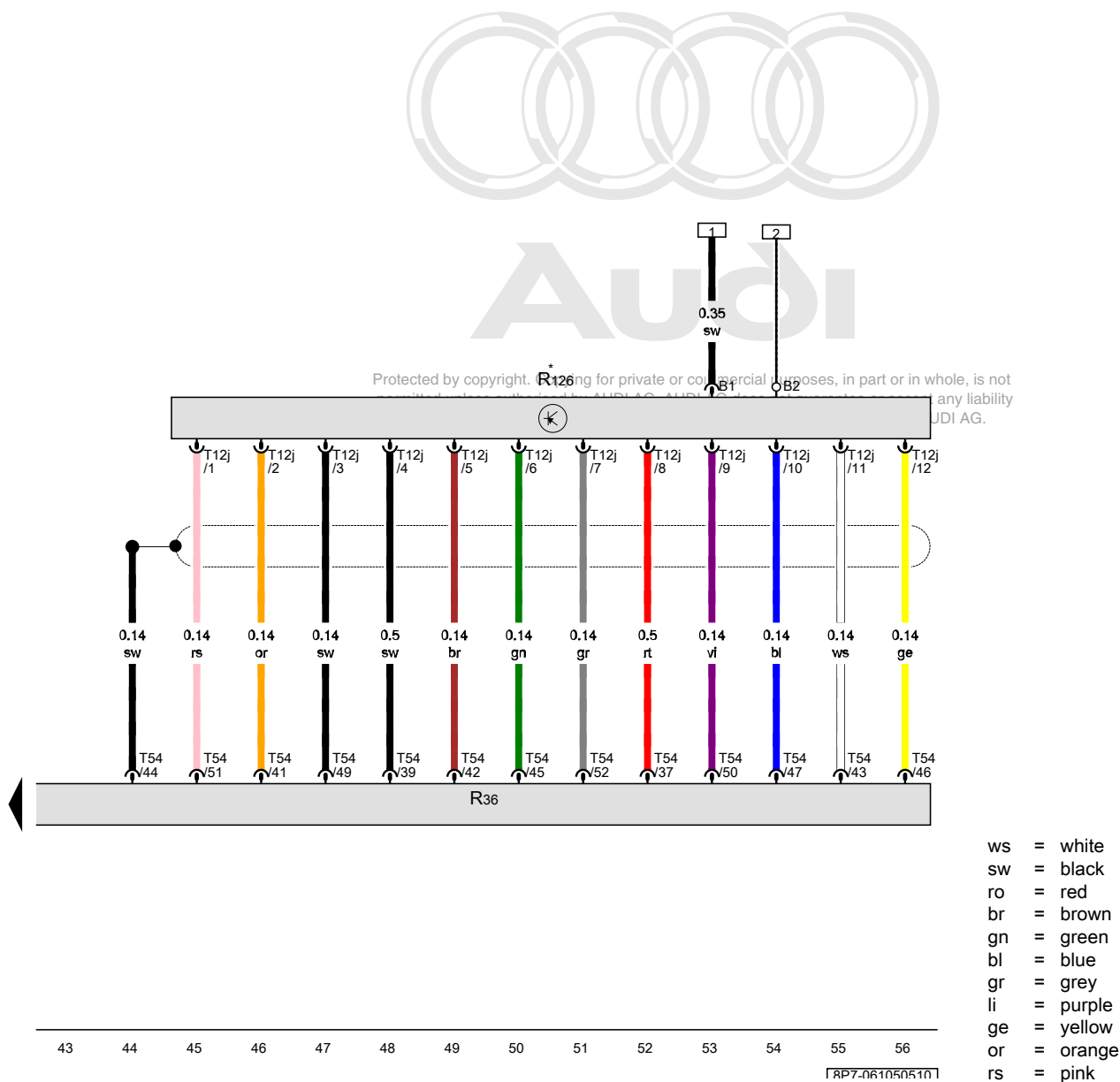
- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation
- R Radio
- R36 Telephone transmitter and receiver unit
- R38 Telephone microphone
- R74 Internal microphone
- T12m 12-pin connector
- T16g 16-pin connector
- T54 54-pin connector
- B415 Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421 Connection 1 (infotainment CAN bus, low), in main wiring harness
- * Only models with radio navigation system
- *2 Only models with no voice control
- *3 Only models with radio
- *4 Only models with BOSE sound system



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Telephone transmitter and receiver unit, Telephone bracket

- R36 Telephone transmitter and receiver unit
- R126 Telephone bracket
- T12j 12-pin connector
- T54 54-pin connector
- * Not for American markets





Garage door operation - Homelink

from May 2009

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



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M/30

M/30

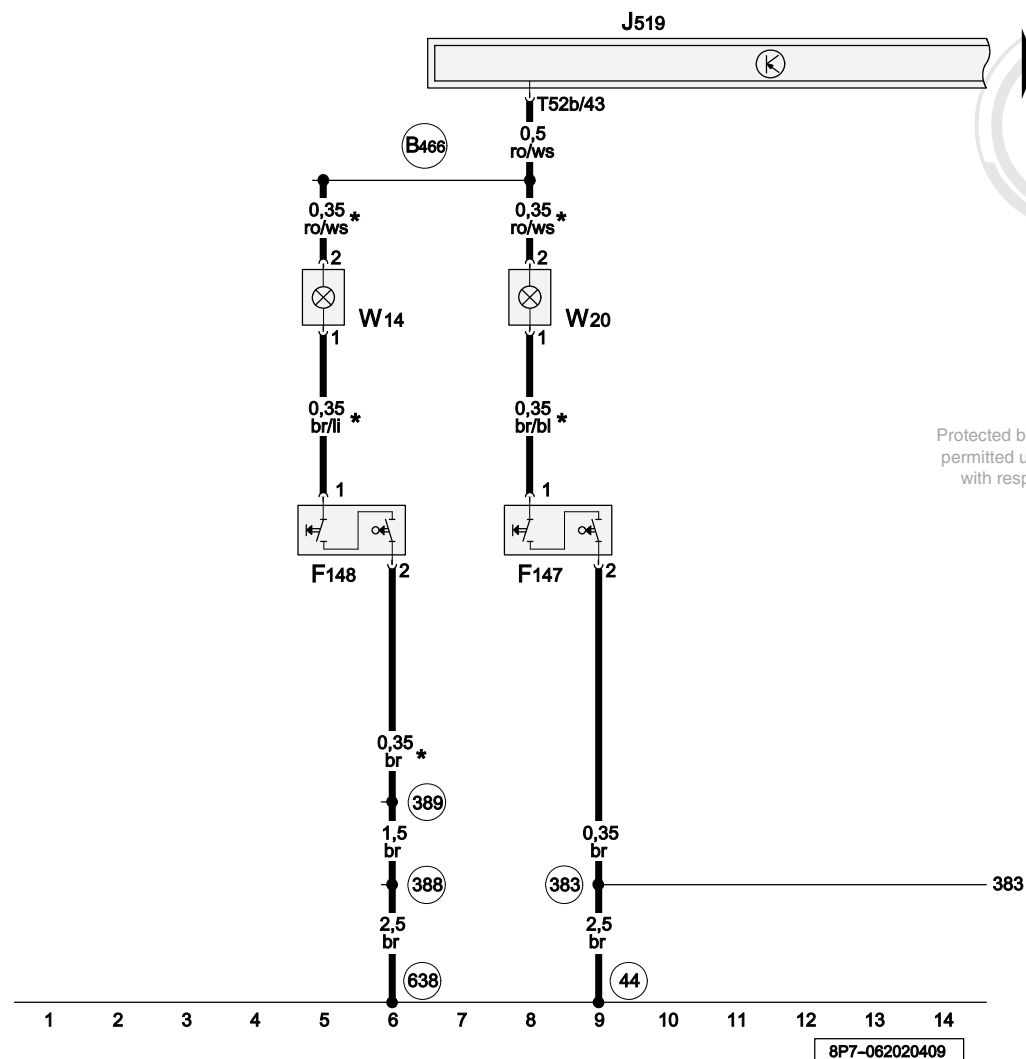
Vanity mirror

- F147 Driver vanity mirror contact switch
- F148 Front passenger side vanity mirror contact switch
- J519 Onboard supply control unit
- T52b 52-pin connector, white (connector B)
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 638 Earth point, right A-pillar
- B466 Connection 2 in main wiring harness

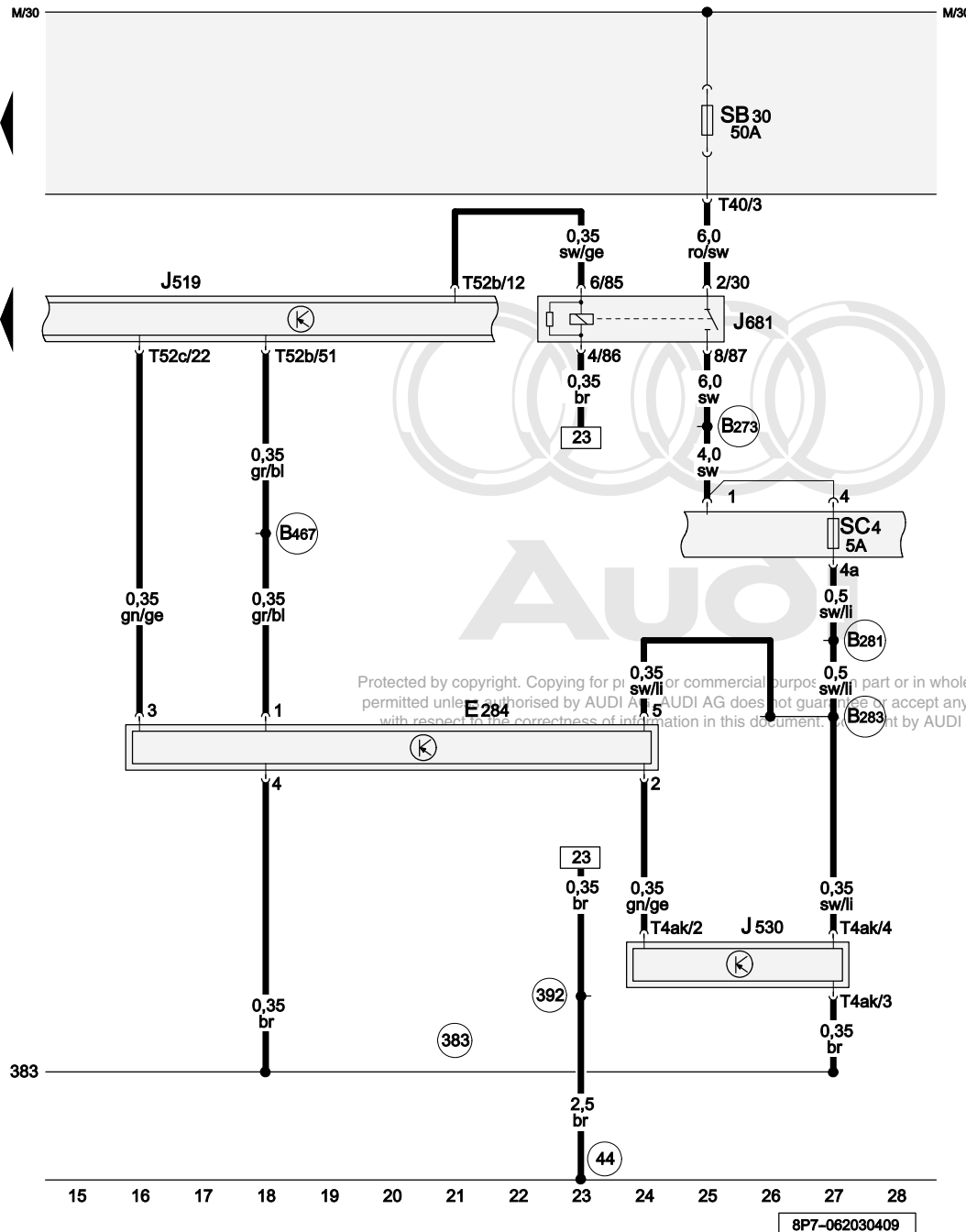
* models with illuminated vanity mirror only

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Garage door operating unit, garage door operation control unit

- E284 Garage door operating unit
- J519 Onboard supply control unit
- J530 Garage door operation control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T4ak 4-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)

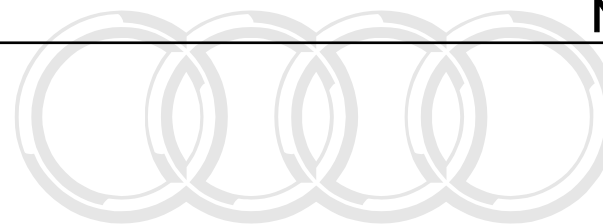
- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- B467 Connection 3 in main wiring harness

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Automatic anti-dazzle interior mirror

From May 2009



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Light sensor, Onboard supply control unit, Data bus diagnostic interface, Terminal 15 voltage supply relay 2, Automatic anti-dazzle interior mirror

- G399 Light sensor
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- T6y 6-pin connector
- T8ad 8-pin connector
- T20d 20-pin connector
- T40 40-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- WX1 Front interior light
- Y7 Automatic anti-dazzle interior mirror

44 Earth point, lower part of left A-pillar

392 Earth connection 27, in main wiring harness

638 Earth point, on right A-pillar

B182 Connection (RL), in interior wiring harness

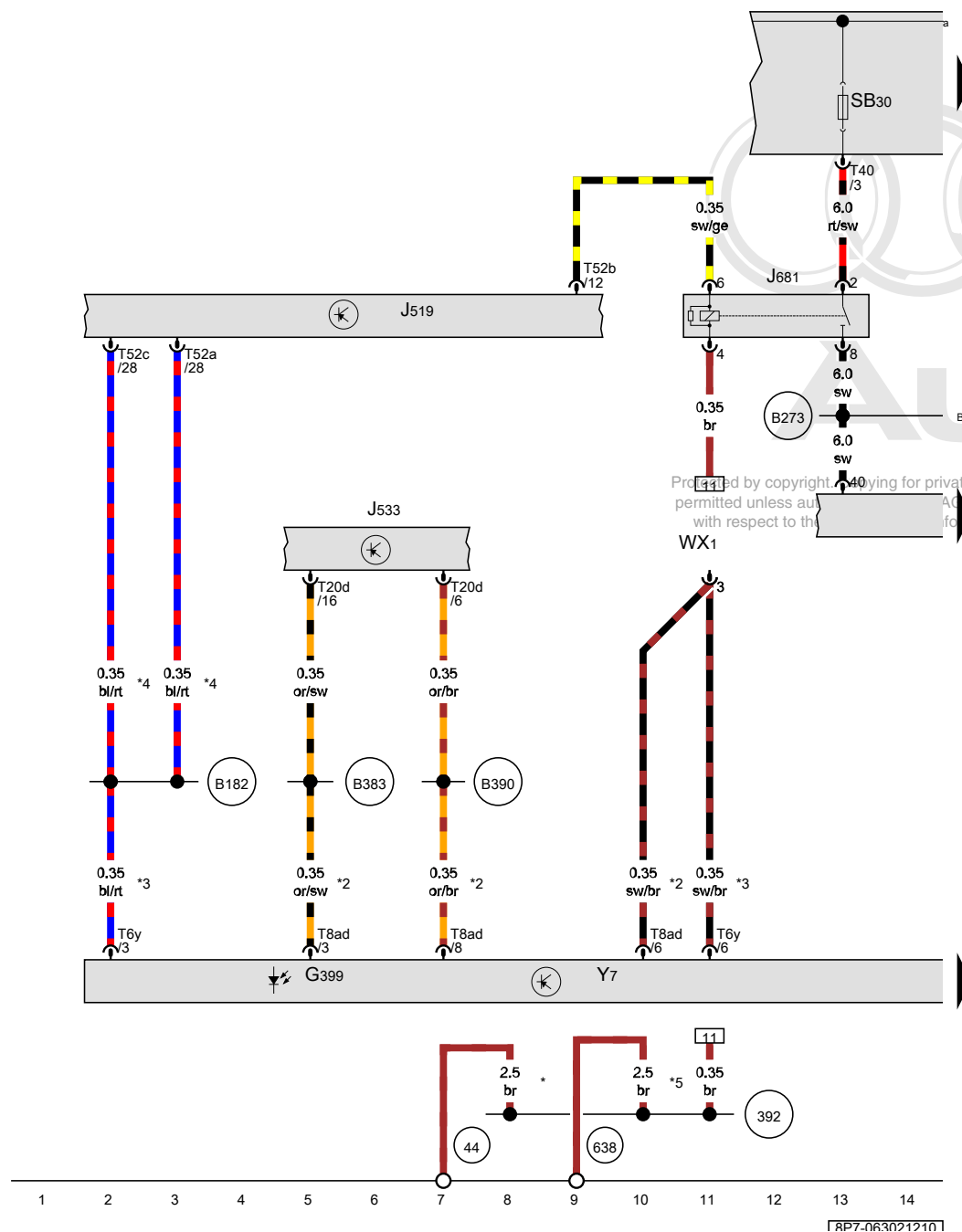
B273 Positive connection (15), in main wiring harness

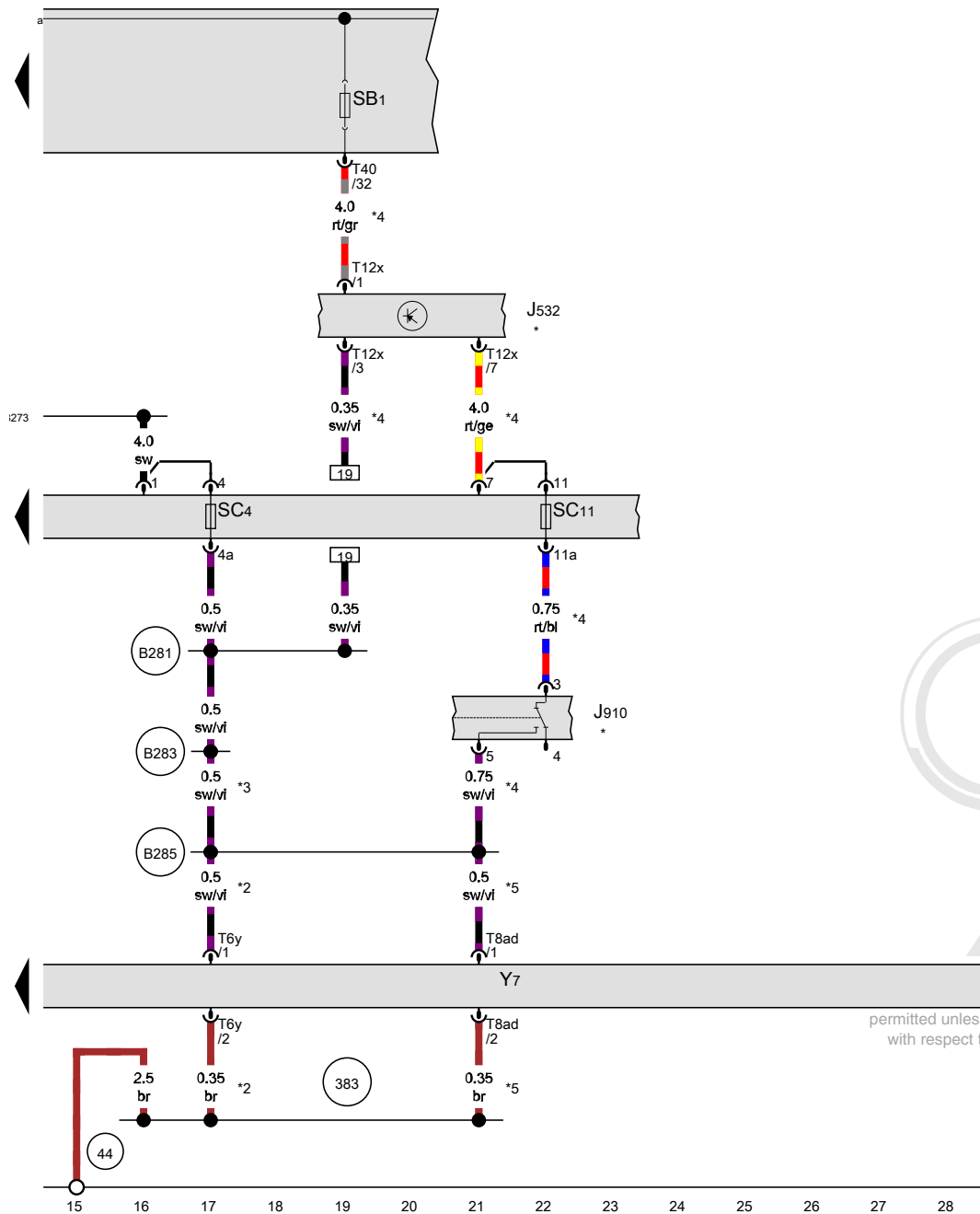
B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

- * Only left-hand drive models
- *2 Only models with main beam assist
- *3 Only models with no main beam assist function
- *4 According to equipment
- *5 Only right-hand drive models

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Voltage stabiliser, Relay for automatic anti-dazzle interior mirror, Automatic anti-dazzle interior mirror

- J532 Voltage stabiliser
- J910 Relay for automatic anti-dazzle interior mirror
- SB1 Fuse 1 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- SC11 Fuse 11 on fuse holder C
- T6y 6-pin connector
- T8ad 8-pin connector
- T12x 12-pin connector
- T40 40-pin connector
- Y7 Automatic anti-dazzle interior mirror

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a) in main wiring harness
- B283 Positive connection 7 (15a) in main wiring harness
- B285 Positive connection 9 (15a) in main wiring harness

- * see applicable current flow diagram for battery in engine compartment
- *2 Only models with no main beam assist function
- *3 Only models with no start/stop system
- *4 Only models with start/stop system
- *5 Only models with main beam assist

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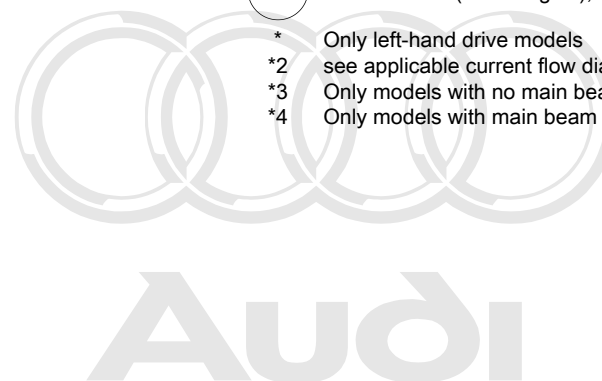
Driver door control unit, Front passenger door control unit,
Automatic anti-dazzle interior mirror

- J386 Driver door control unit
- J387 Front passenger door control unit
- T6y 6-pin connector
- T8ad 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- T20f 20-pin connector
- T20g 20-pin connector
- Y7 Automatic anti-dazzle interior mirror

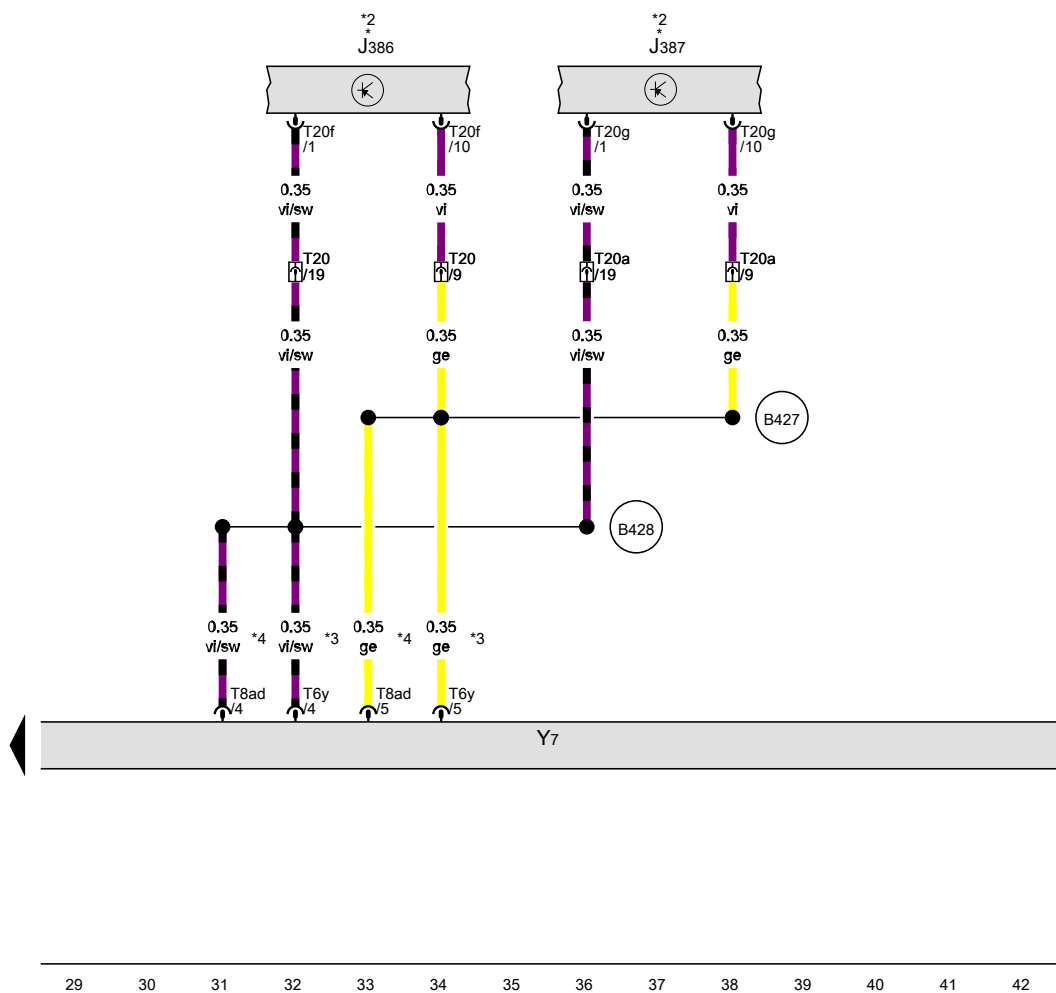
B427 Connection 1 (mirror signal), in main wiring harness

B428 Connection 2 (mirror signal), in main wiring harness

- * Only left-hand drive models
- *2 see applicable current flow diagram for convenience system
- *3 Only models with no main beam assist function
- *4 Only models with main beam assist



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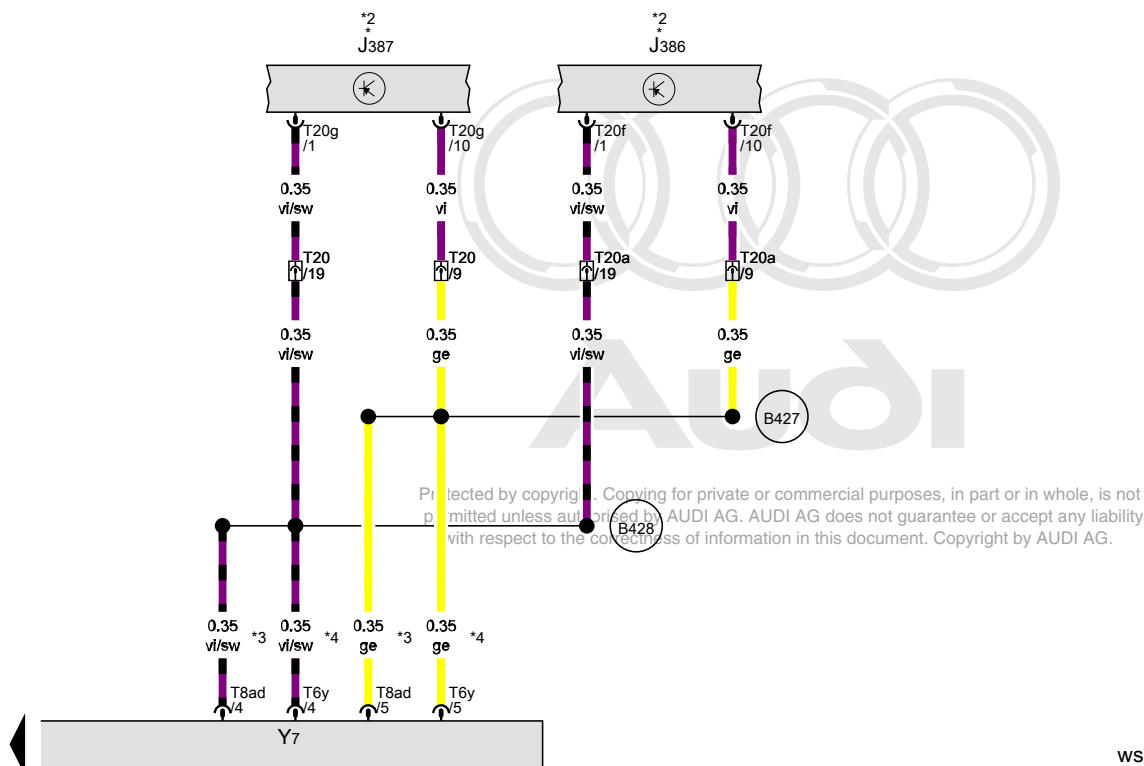
Driver door control unit, Front passenger door control unit,
Automatic anti-dazzle interior mirror

- J386 Driver door control unit
- J387 Front passenger door control unit
- T6y 6-pin connector
- T8ad 8-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- T20f 20-pin connector
- T20g 20-pin connector
- Y7 Automatic anti-dazzle interior mirror

B427 Connection 1 (mirror signal), in main wiring harness

B428 Connection 2 (mirror signal), in main wiring harness

- * Only right-hand drive models
- *2 see applicable current flow diagram for convenience system
- *3 Only models with main beam assist
- *4 Only models with no main beam assist function



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- li = purple
- ge = yellow
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43 44 45 46 47 48 49 50 51 52 53 54 55 56

1AP7-0630512101



Air conditioner with automatic regulation

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

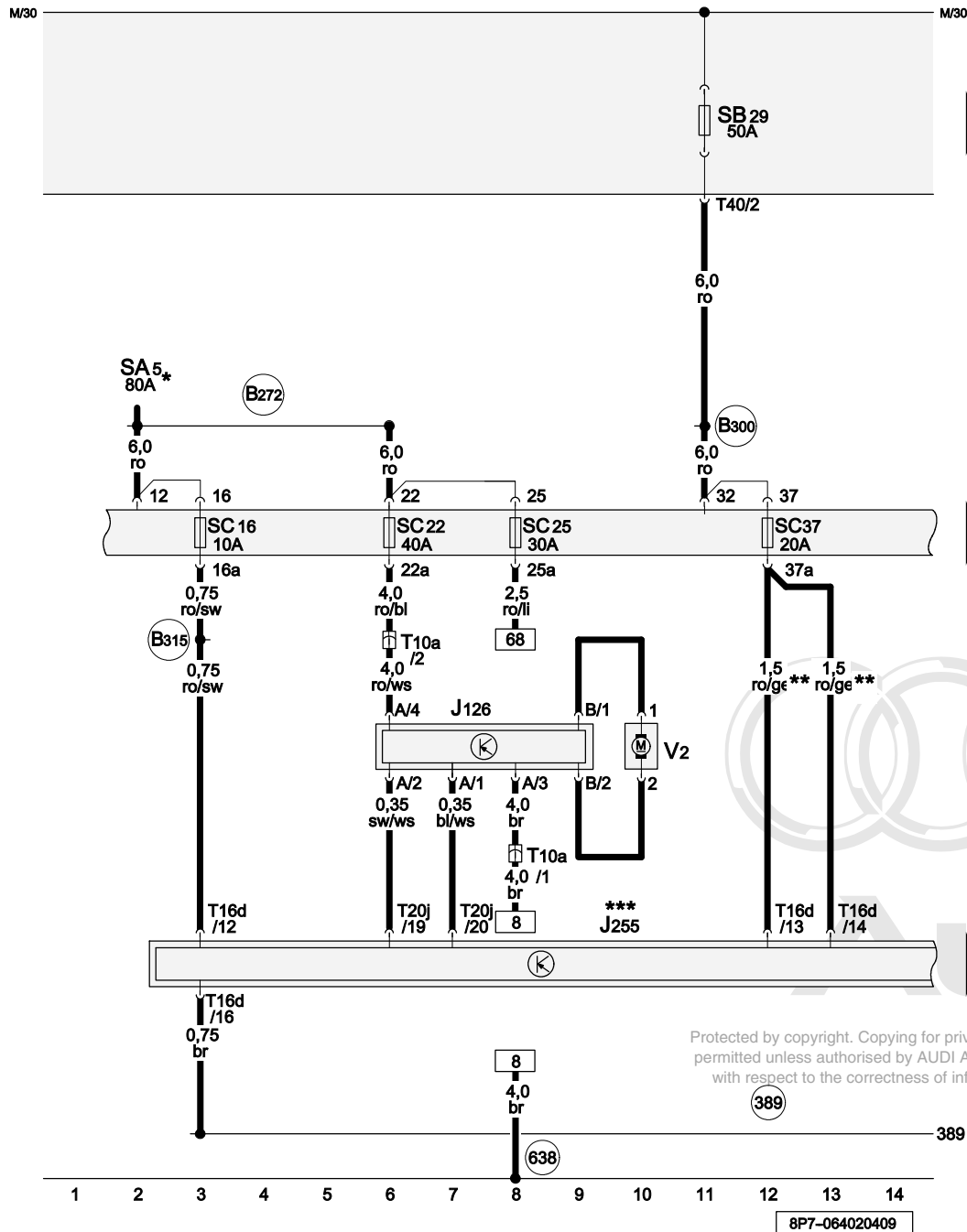
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fresh air blower control unit, fuses on fuse holder

J126	Fresh air blower control unit
J255	Climatronic control unit
SB29	Fuse 29 on fuse holder B
SA5	Fuse 5 on fuse holder A
SC16	Fuse 16 on fuse holder C
SC22	Fuse 22 on fuse holder C
SC25	Fuse 25 on fuse holder C
SC37	Fuse 37 on fuse holder C
T10a	10-pin connector, black, behind the glove compartment
T16d	16-pin connector, black (connector D)
T20j	20-pin connector, red (connector B)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)
V2	Fresh air blower

389 Earth connection 24, in main wiring harness

638 Earth point, right A-pillar

B272 Positive connection (30), in main wiring harness

B300 Positive connection 4 (30), in main wiring harness

B315 Positive connection 1 (30a), in main wiring harness

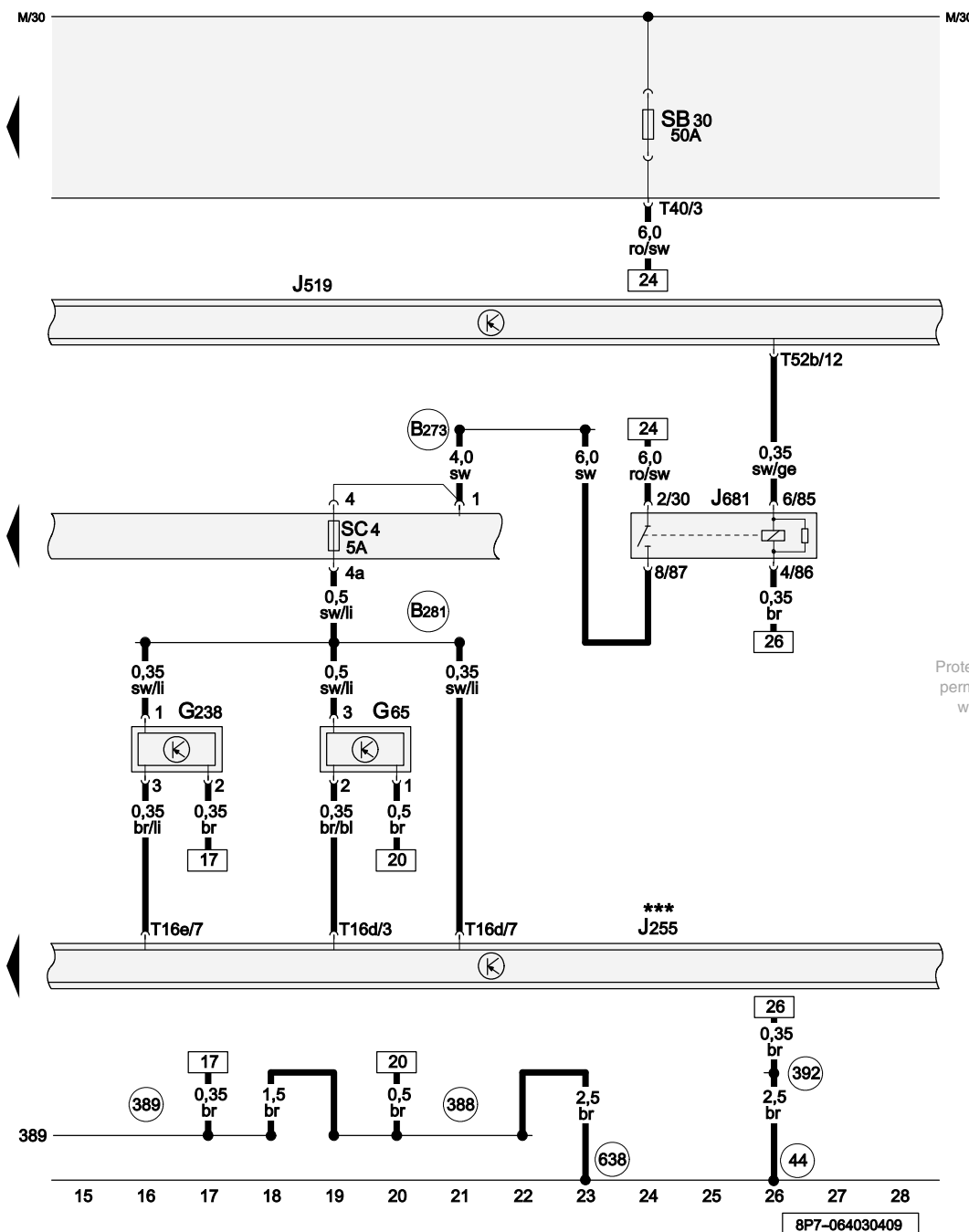
* ⇒ applicable Current Flow Diagram with battery in engine compartment

** for models with seat heating only

*** operating and display unit for air conditioning system/Climatronic

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gn = green
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High-pressure sender, air quality sensor, terminal 15 voltage supply relay 2

- G65 High pressure sender
- G238 Air quality sensor
- J255 Climatronic control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)

44 Earth point, lower part of left A-pillar

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

392 Earth connection 27, in main wiring harness

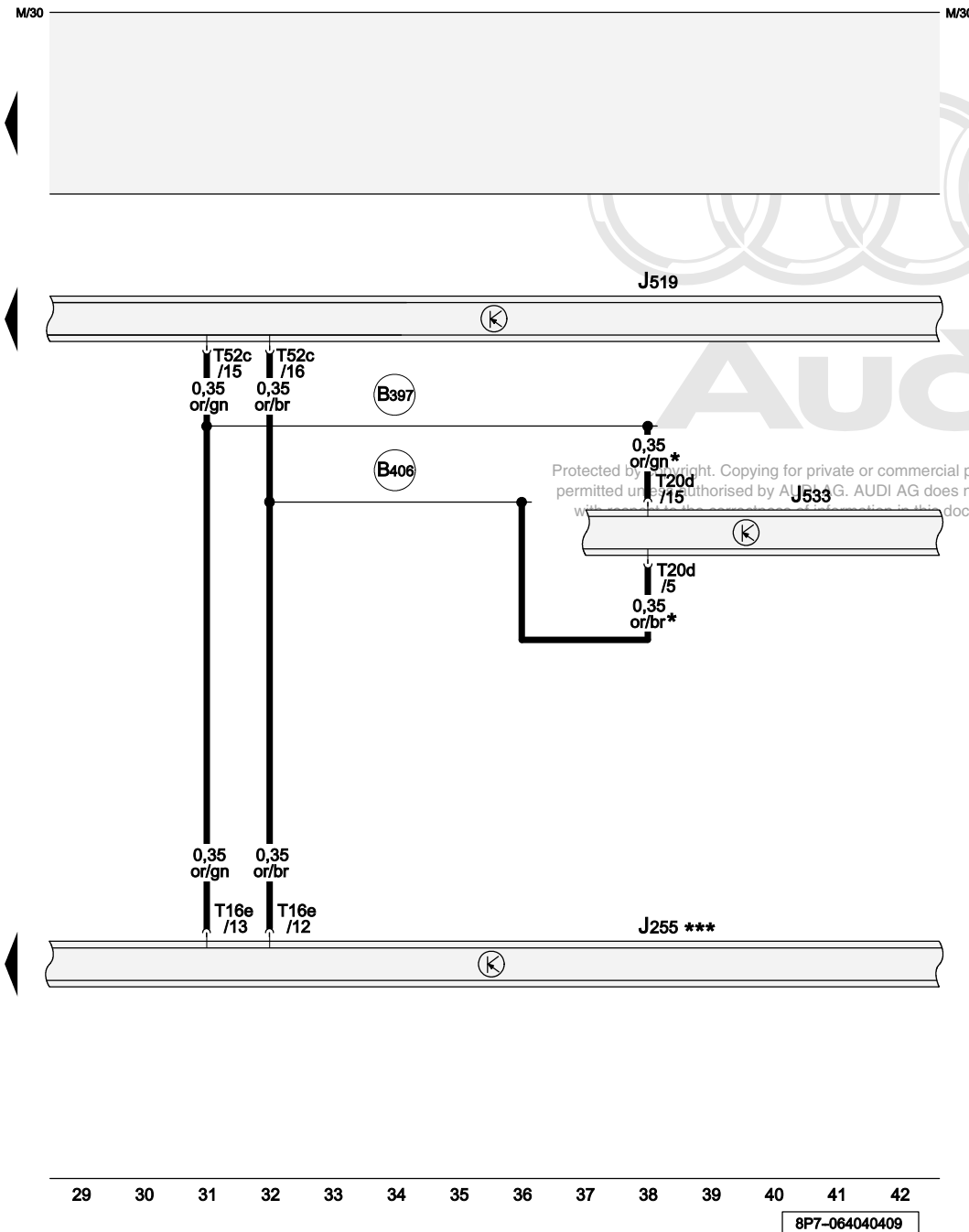
638 Earth point, right A-pillar

B273 Positive connection (15), in main wiring harness

B281 Positive connection 5 (15a), in main wiring harness

*** operating and display unit for air conditioning system/Climatronic

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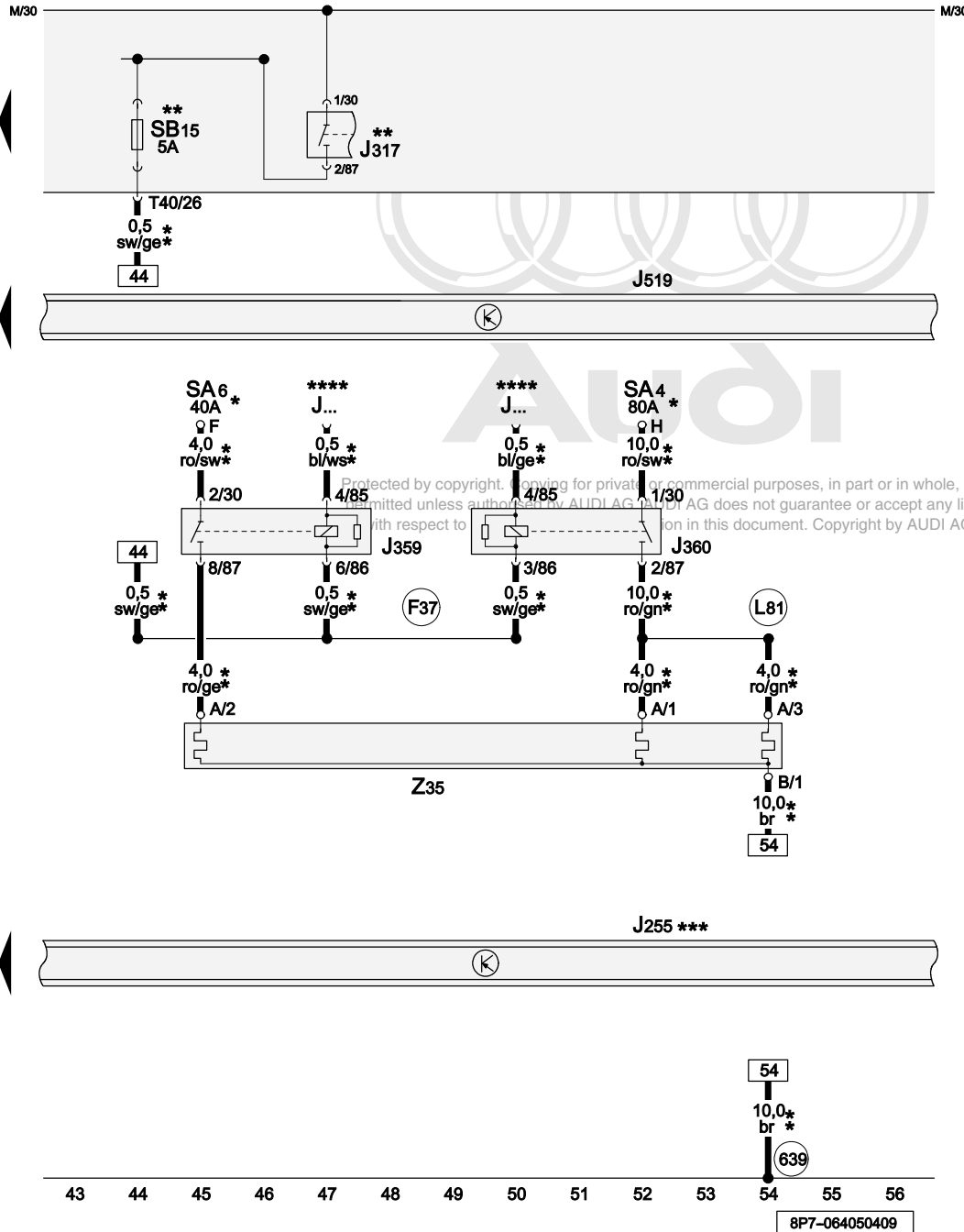
Convenience CAN bus

- J255 Climatronic control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- T16e 16-pin connector, brown (connector C)
- T20d 20-pin connector, black (connector A)
- T52c 52-pin connector, brown (connector C)

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

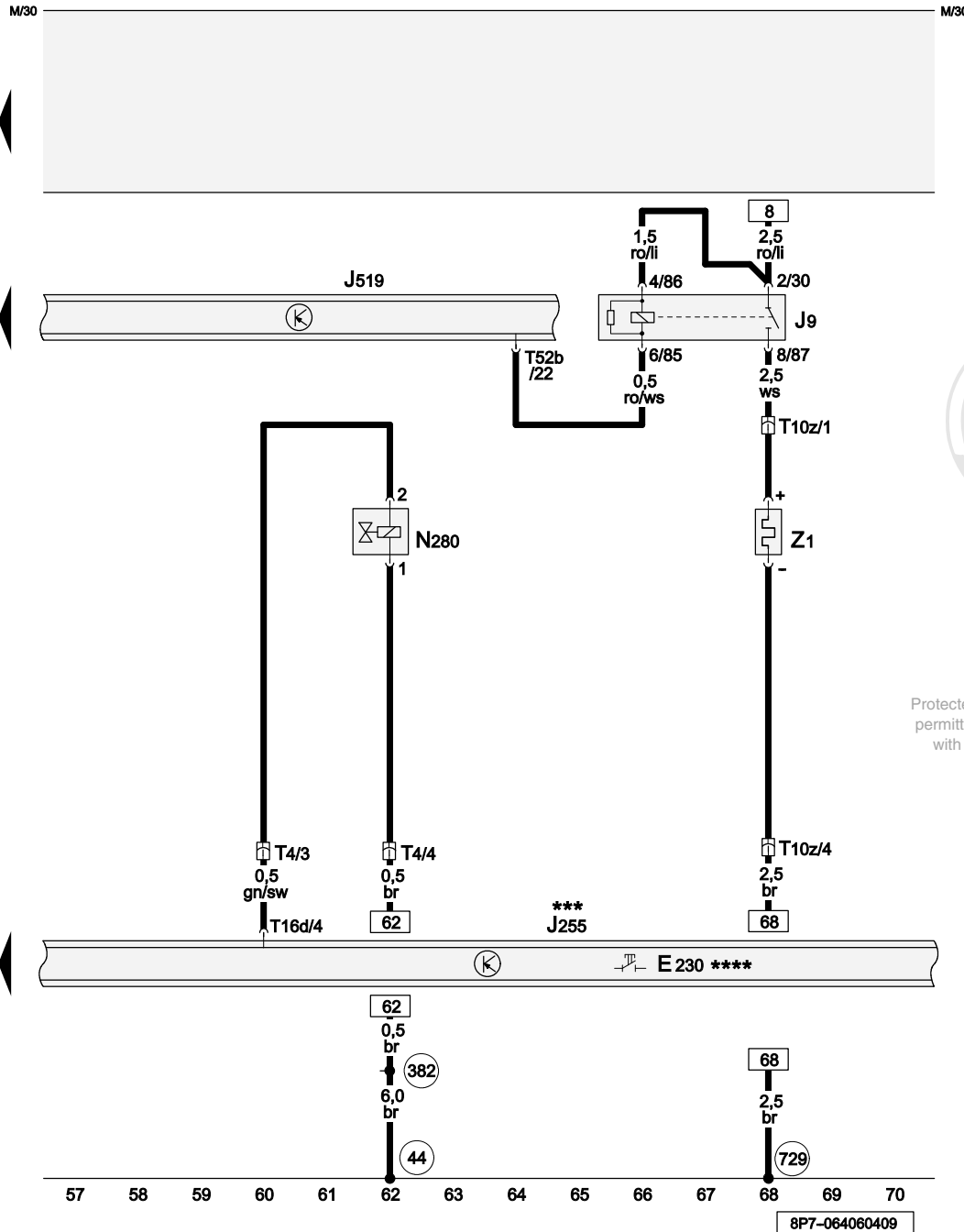
B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* ⇒ applicable Current Flow Diagram basic equipment
*** operating and display unit for air conditioning system/Climatronic



Auxiliary air heater

- J... Engine control units
- J255 Climatronic control unit
- J317 Terminal 30 voltage supply relay
- J359 Low heat output relay
- J360 High heat output relay
- J519 Onboard supply control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- Z35 Auxiliary heater element
- 639 Earth point, left A-pillar
- L81 Connection in supplementary heater wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models with diesel engines only
- *** operating and display unit for air conditioning system/Climatronic
- **** ⇒ applicable engine Current Flow Diagram



Heated rear window relay, air conditioning system compressor regulating valve

- E230 Heated rear window button
- J9 Heated rear window relay
- J255 Climatronic control unit
- J519 Onboard supply control unit
- N280 Air conditioning system compressor regulating valve
- T4 4-pin connector, black, in front left engine compartment
- T10z 10-pin connector, black, behind the left rear light
- T16d 16-pin connector, black (connector D)
- T52b 52-pin connector, white (connector B)
- Z1 Heated rear window
- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 729 Earth point, on rear left wheel housing
- *** operating and display unit for air conditioning system/Climatronic
- **** Operation for Z1 via convenience CAN bus

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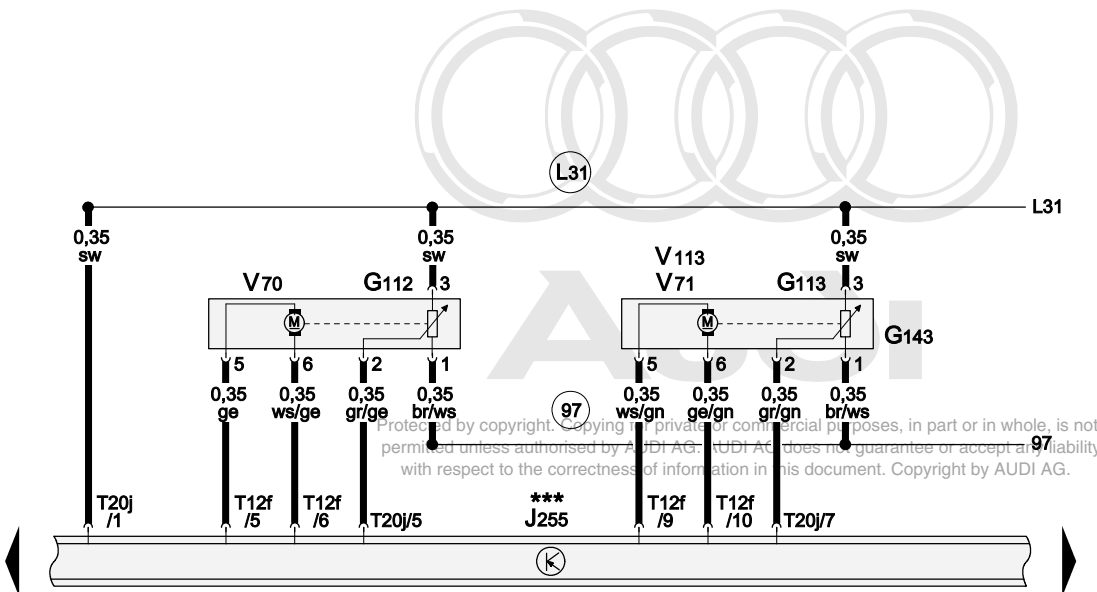
Central flap control motor, air flow flap control motor, air recirculation flap control motor

- G112 Central flap control motor potentiometer
- G113 Air flow flap control motor potentiometer
- G143 Air recirculation flap control motor potentiometer
- J255 Climatronic control unit
- T12f 12-pin connector, black (connector A)
- T20j 20-pin connector, red (connector B)
- V70 Central flap control motor
- V71 Air flow flap control motor
- V113 Air recirculation flap control motor

97 Earth connection 1, in air conditioning system wiring harness

L31 Connection (5V), in air conditioning system wiring harness

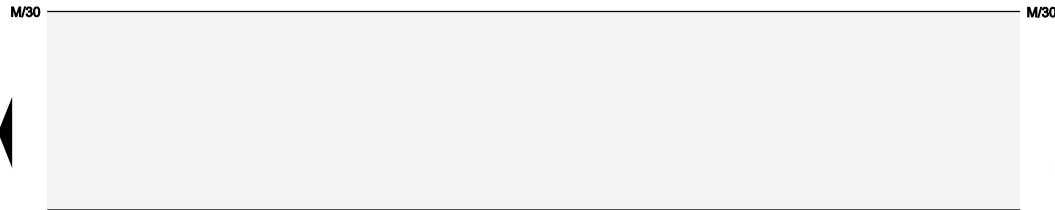
*** operating and display unit for air conditioning system/Climatronic



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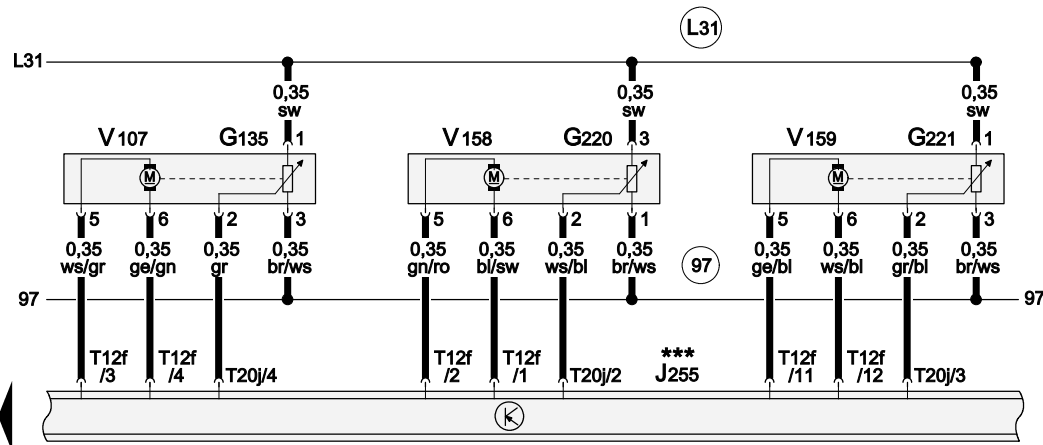
Defroster flap control motor, left temperature flap control motor, right temperature flap control motor

- G135 Defroster flap control motor potentiometer
- G220 Potentiometer for left temperature flap control motor
- G221 Potentiometer for right temperature flap control motor
- J255 Climatronic control unit
- T12f 12-pin connector, black (connector A)
- T20j 20-pin connector, red (connector B)
- V107 Defroster flap control motor
- V158 Left temperature flap control motor
- V159 Right temperature flap control motor

97 Earth connection 1, in air conditioning system wiring harness

L31 Connection (5V), in air conditioning system wiring harness

*** operating and display unit for air conditioning system/Climatronic



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Vent temperature sender

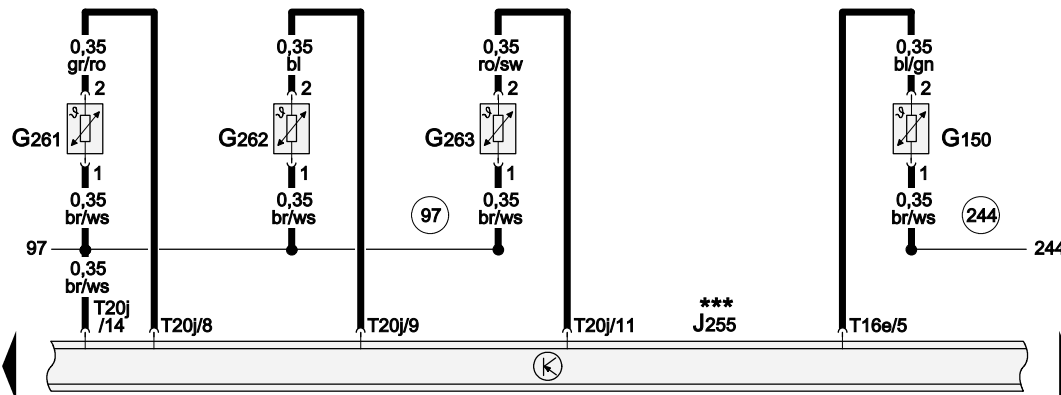
- G150 Left vent temperature sender
- G261 Left footwell vent temperature sender
- G262 Right footwell vent temperature sender
- G263 Evaporator out-flow temperature sender
- J255 Climatronic control unit
- T16e 16-pin connector, brown (connector C)
- T20j 20-pin connector, red (connector B)

97 Earth connection 1, in air conditioning system wiring harness

244 Earth connection (sender earth), in Climatronic wiring harness

*** operating and display unit for air conditioning system/Climatronic

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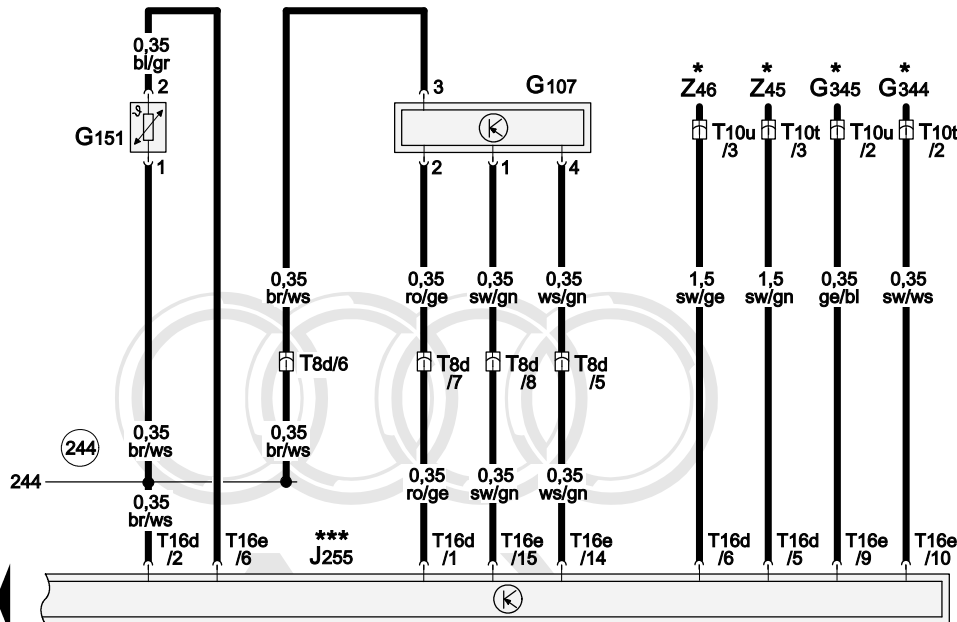
M/30

Sunlight penetration photosensor, right vent temperature sender, front seat temperature sender

- G107 Sunlight penetration photosensor
- G151 Right vent temperature sender
- G344 Front left seat temperature sender
- G345 Front right seat temperature sender
- J255 Climatronic control unit
- T8d 8-pin connector, black, behind centre console
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T16d 16-pin connector, black (connector D)
- T16e 16-pin connector, brown (connector C)
- Z45 Front left seat heating
- Z46 Front right seat heating

244 Earth connection (sender earth), in Climatronic wiring harness

- * see applicable Current Flow Diagram: seat heating
- *** operating and display unit for air conditioning system/Climatronic



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113 114 115 116 117 118 119 120 121 122 123 124 125 126

8P7-064100409



Air conditioner with manual regulation

from May 2009

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



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M/30

M/30

Fuses on fuse holder

- J301 Air conditioning system control unit
- SA5 Fuse 5 on fuse holder A
- SC16 Fuse 16 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T20c 20-pin connector, black (connector A)

388 Earth connection 23, in main wiring harness

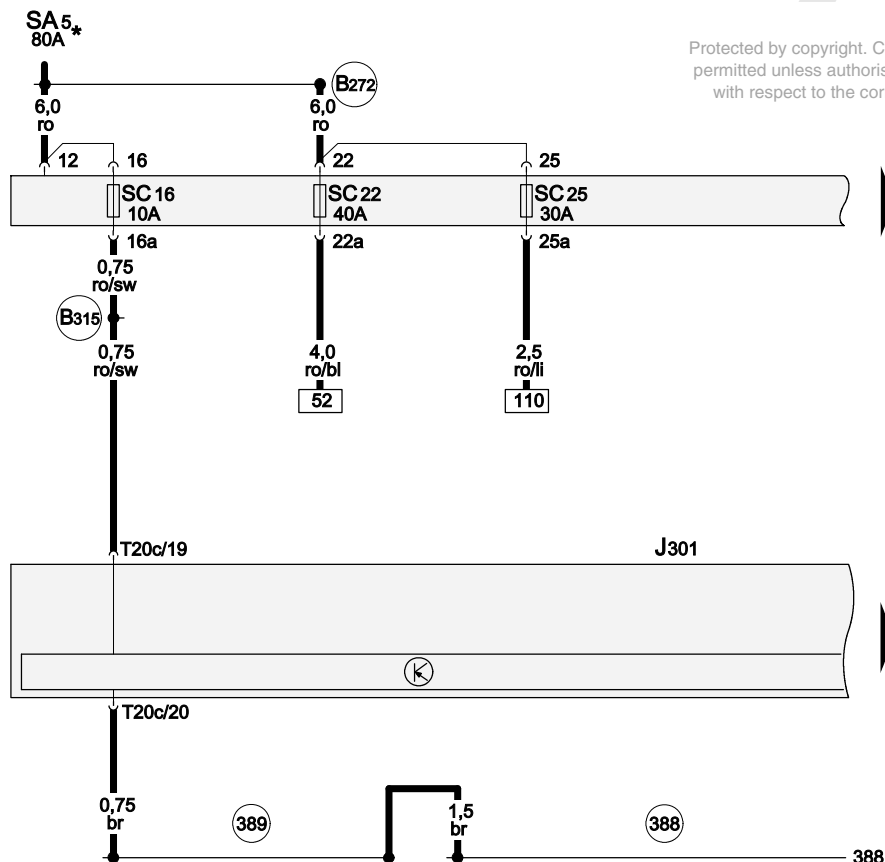
389 Earth connection 24, in main wiring harness

B272 Positive connection (30), in main wiring harness

B315 Positive connection 1 (30a), in main wiring harness

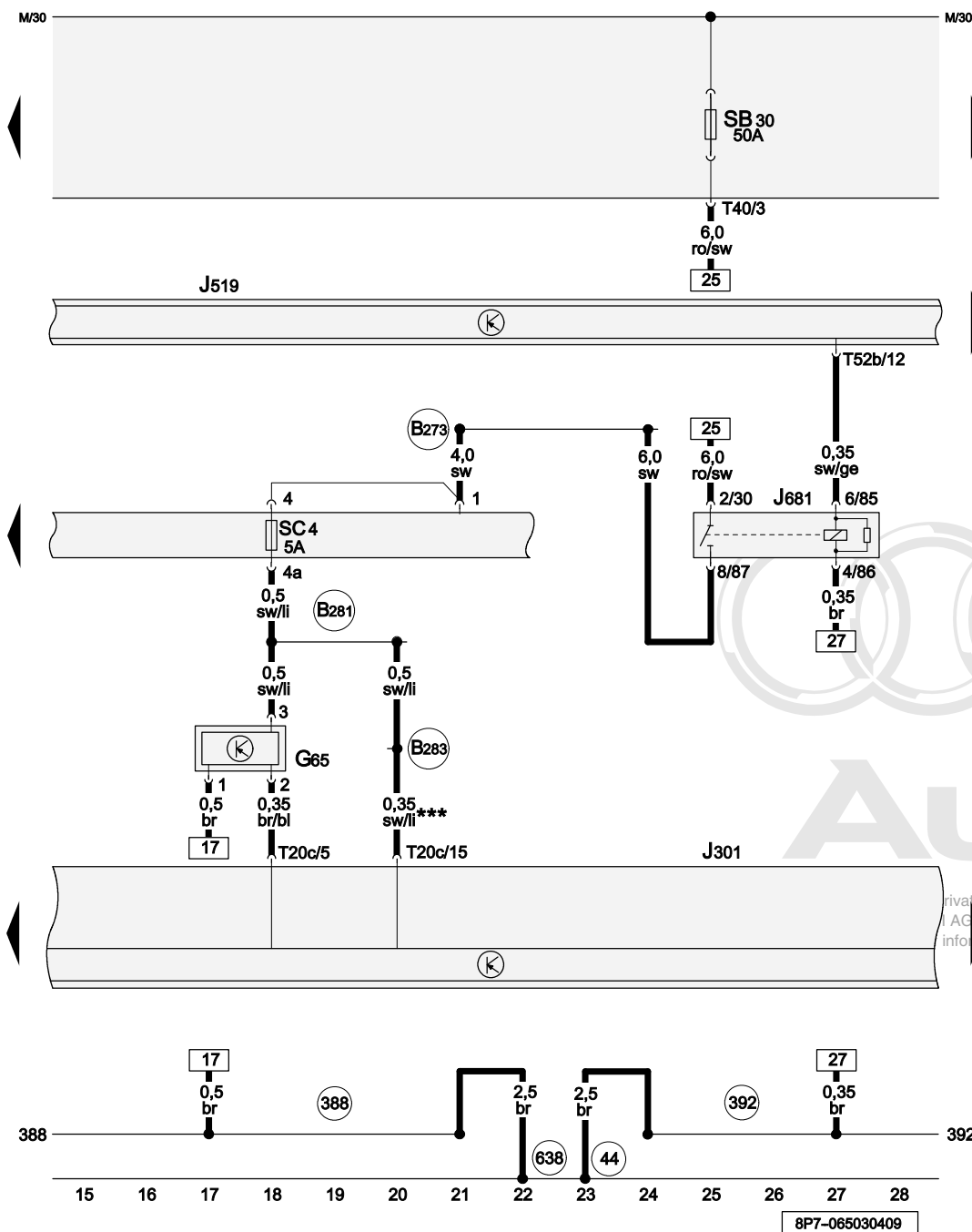
* ⇒ applicable Current Flow Diagram with battery in engine compartment

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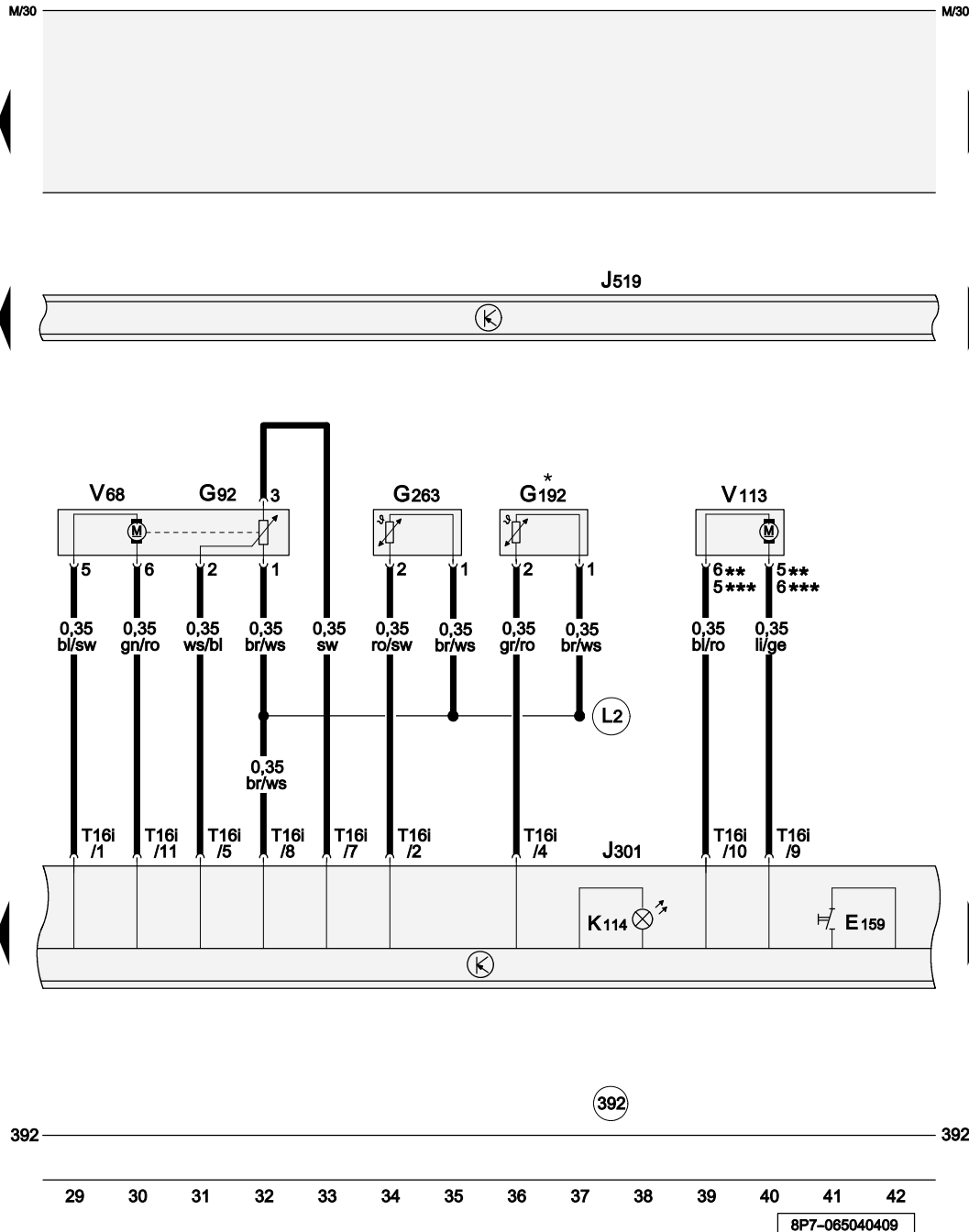


Fuses on fuse holder, terminal 15 voltage supply relay 2, high-pressure sender

- G65 High pressure sender
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- T20c 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)

- 44 Earth point, lower part of left A-pillar
- 388 Earth connection 23, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, right A-pillar
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- *** ⇒ applicable Current Flow Diagram: seat heating

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Vent temperature sender, temperature flap control motor, air recirculation flap control motor

- E159 Fresh air/air recirculation flap switch
- G92 Temperature flap control motor potentiometer
- G192 Footwell vent temperature sender
- G263 Evaporator out-flow temperature sender
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- K114 Fresh air and air recirculation warning lamp
- T16i 16-pin connector, black (connector B)
- V68 Temperature flap control motor
- V113 Air recirculation flap control motor

L2 Connection in air conditioning system wiring harness

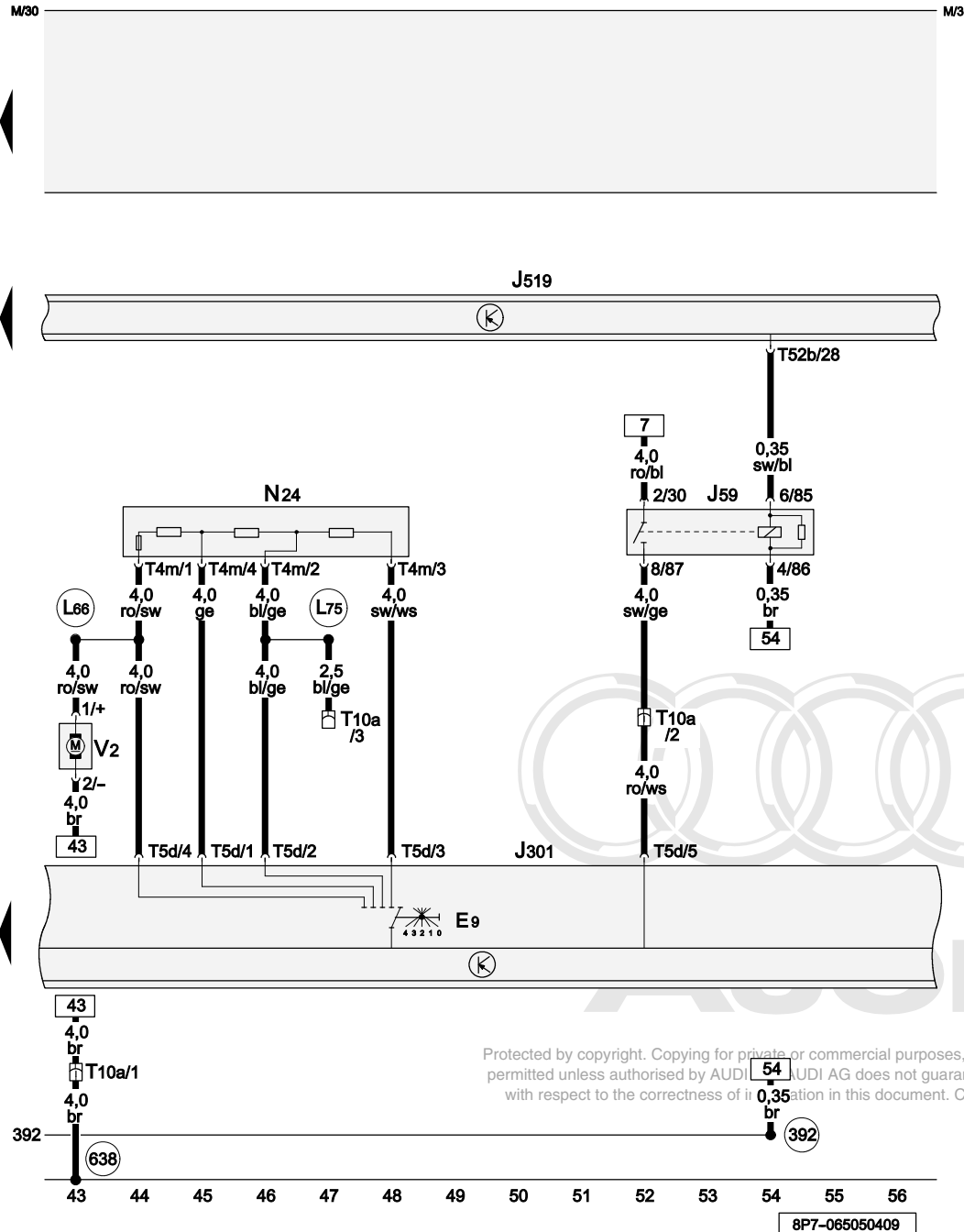
* if present

** for left-hand drive models only

*** for right-hand drive models only

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Fresh air blower series resistor with overheating fuse, fresh air blower, X-contact relief relay

- E9 Fresh air blower switch
- J59 X-contact relief relay
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- N24 Fresh air blower series resistor with overheating fuse
- T4m 4-pin connector, black (connector A)
- T5d 5-pin connector, black (connector C)
- T10a 10-pin connector, black, behind the glove compartment
- T52b 52-pin connector, white (connector B)
- V2 Fresh air blower

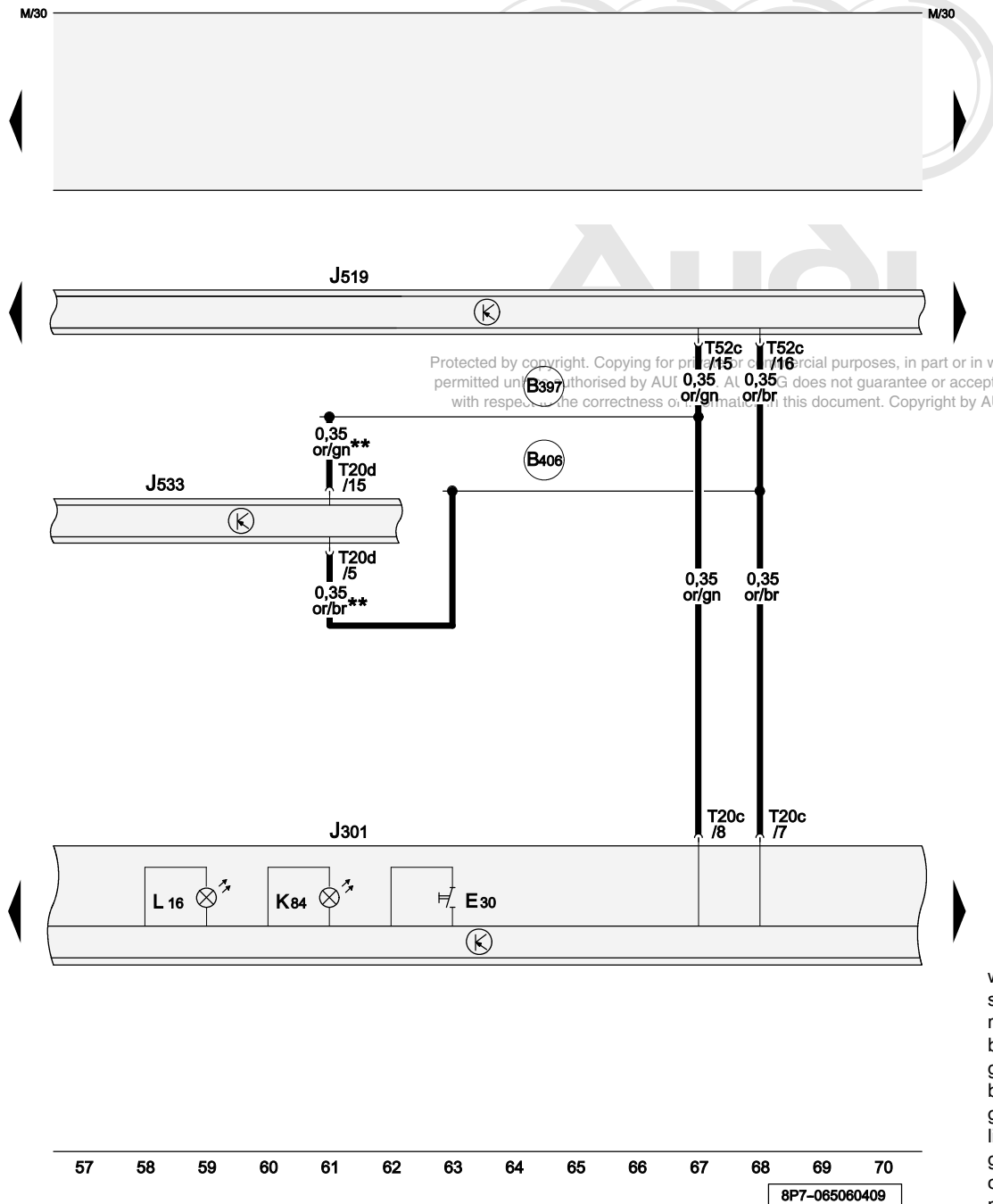
392 Earth connection 27, in main wiring harness

638 Earth point, right A-pillar

L66 Connection, in heater blower wiring harness

L75 Connection 2, in heater blower wiring harness

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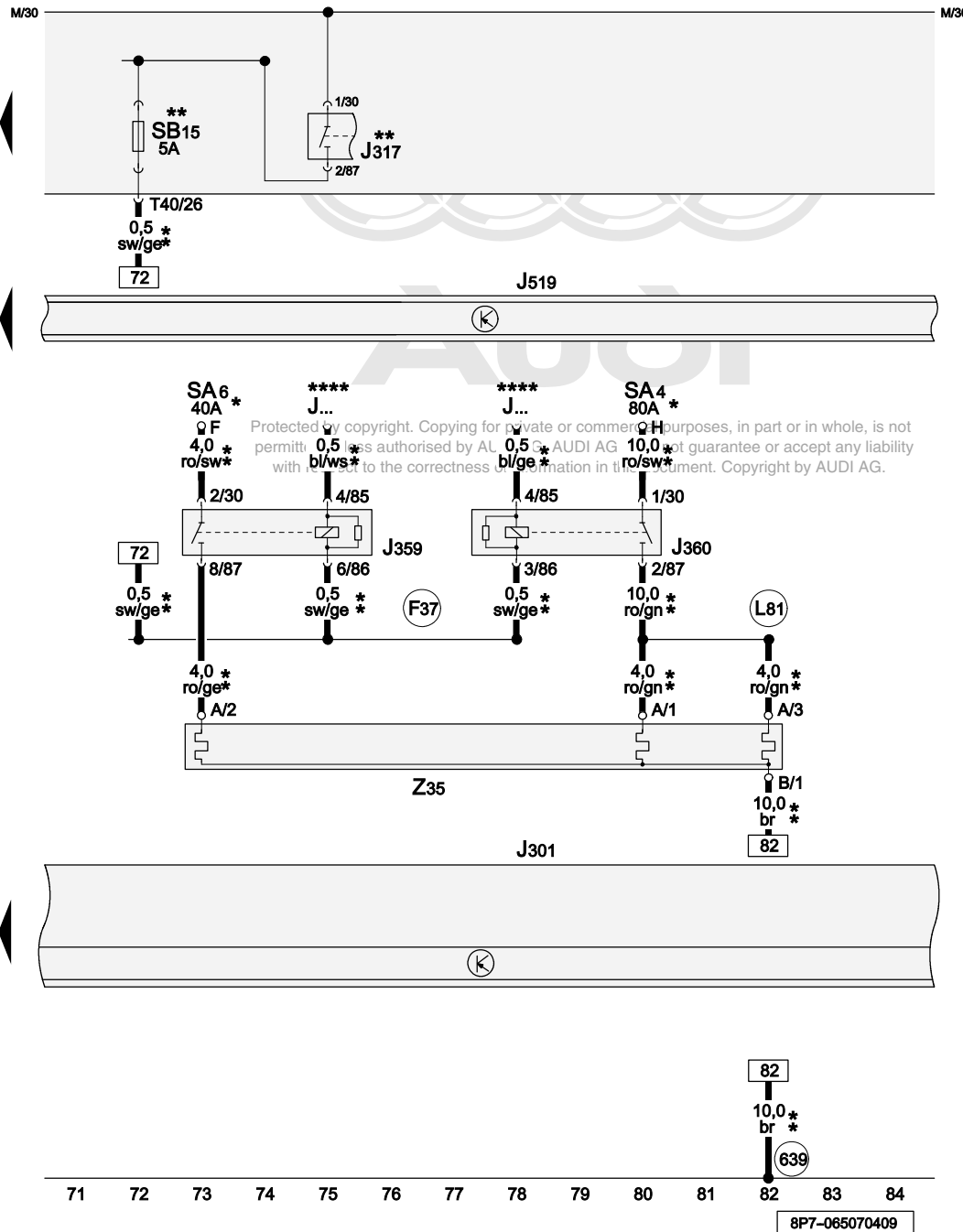
Convenience CAN bus, data bus diagnostic interface

- E30 Air conditioning system switch
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- K84 Air conditioning system warning lamp
- L16 Fresh air regulator illumination bulb
- T20c 20-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)
- T52c 52-pin connector, brown (connector C)

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

B406 Connection 1 (convenience CAN bus, low), in main wiring harness

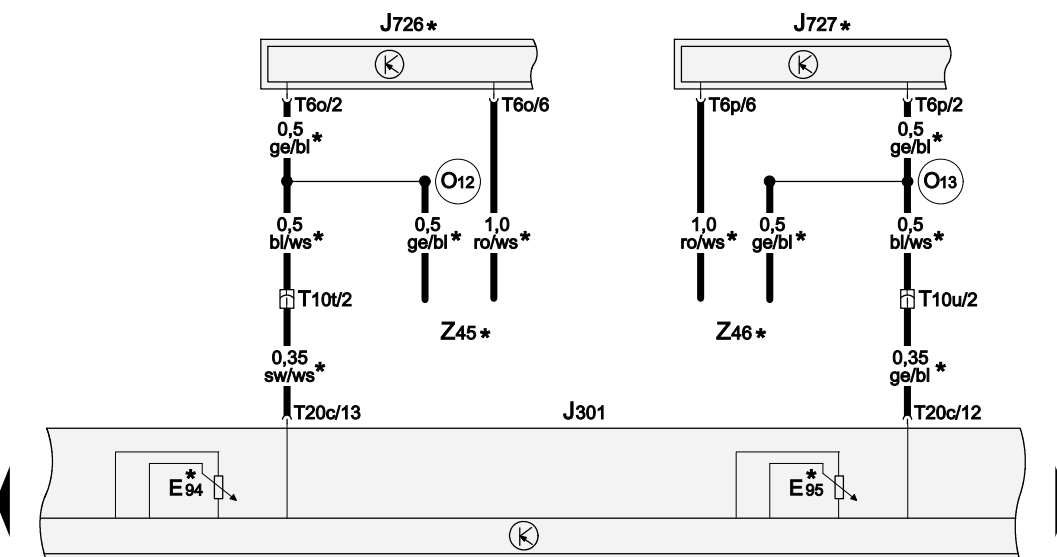
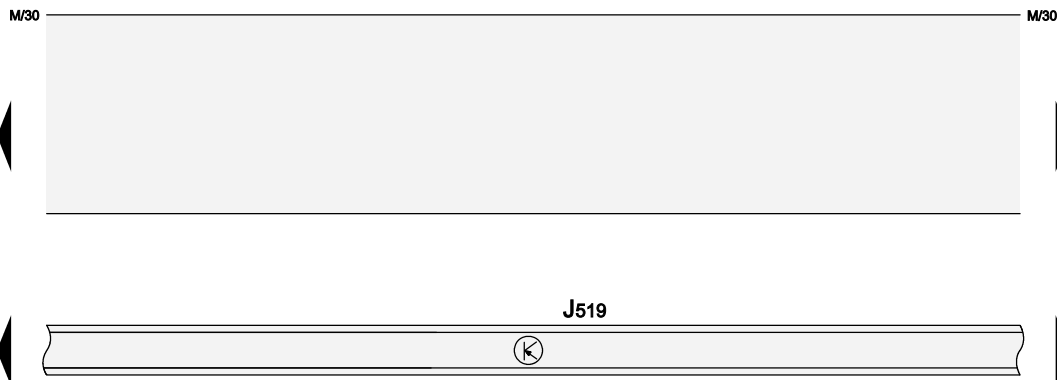
** ⇒ applicable Current Flow Diagram basic equipment



Auxiliary air heater

- J... Engine control units
- J301 Air conditioning system control unit
- J317 Terminal 30 voltage supply relay
- J359 Low heat output relay
- J360 High heat output relay
- J519 Onboard supply control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- Z35 Auxiliary heater element
- 639 Earth point, left A-pillar
- L81 Connection in supplementary heater wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- ** for models with diesel engines only
- **** ⇒ applicable engine Current Flow Diagram

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 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink



Heated seat regulator

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J726 Driver seat heating control unit
- J727 Front passenger seat heating control unit
- T6o 6-pin connector, black, on driver seat heating control unit
- T6p 6-pin connector, black, on front passenger seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T20c 20-pin connector, black (connector A)
- Z45 Front left seat heating
- Z46 Front right seat heating

O12 Connection 1, in seat heating wiring harness

O13 Connection 2, in seat heating wiring harness

* ⇒ applicable Current Flow Diagram: seat heating

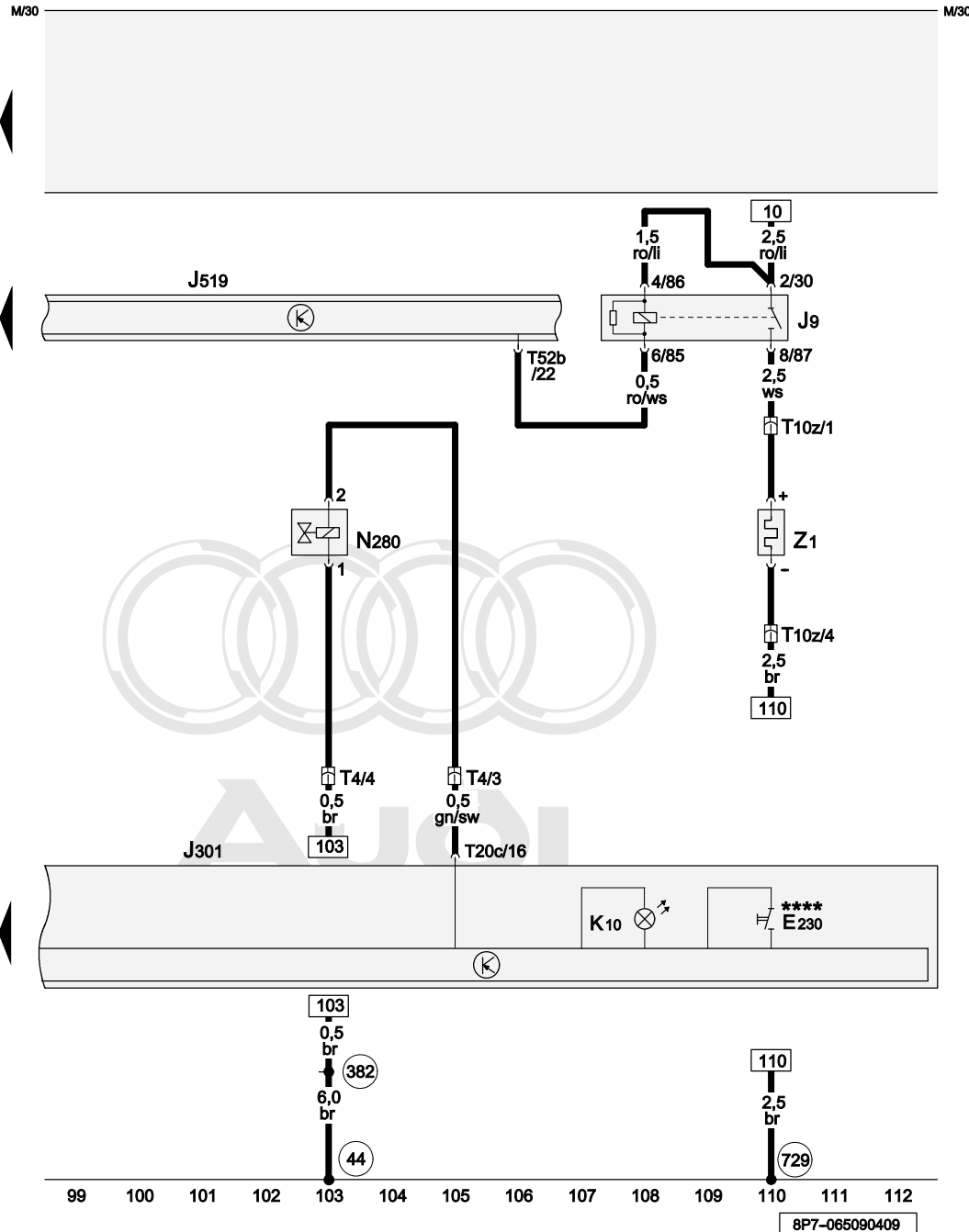


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85 86 87 88 89 90 91 92 93 94 95 96 97 98

8P7-065080409



Heated rear window relay, heated rear window, air conditioning system compressor regulating valve

- E230 Heated rear window button
- J9 Heated rear window relay
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- K10 Heated rear window warning lamp
- N280 Air conditioning system compressor regulating valve
- T4 4-pin connector, black, in front left engine compartment
- T20c 20-pin connector, black (connector A)
- T10z 10-pin connector, black, behind the left rear light
- T52b 52-pin connector, white (connector B)
- Z1 Heated rear window

- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 729 Earth point, on rear left wheel housing
- **** Operation for Z1 via convenience CAN bus



Manually controlled heater

From May 2009



Audi

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X-contact relief relay, Heater control unit, Onboard supply control unit

- J59 X-contact relief relay
- J162 Heater control unit
- J519 Onboard supply control unit
- SC16 Fuse 16 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T1 Single connector
- T5d 5-pin connector
- T10a 10-pin connector, behind glove compartment
- T20c 20-pin connector
- T52b 52-pin connector

44 Earth point, lower part of left A-pillar

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

392 Earth connection 27, in main wiring harness

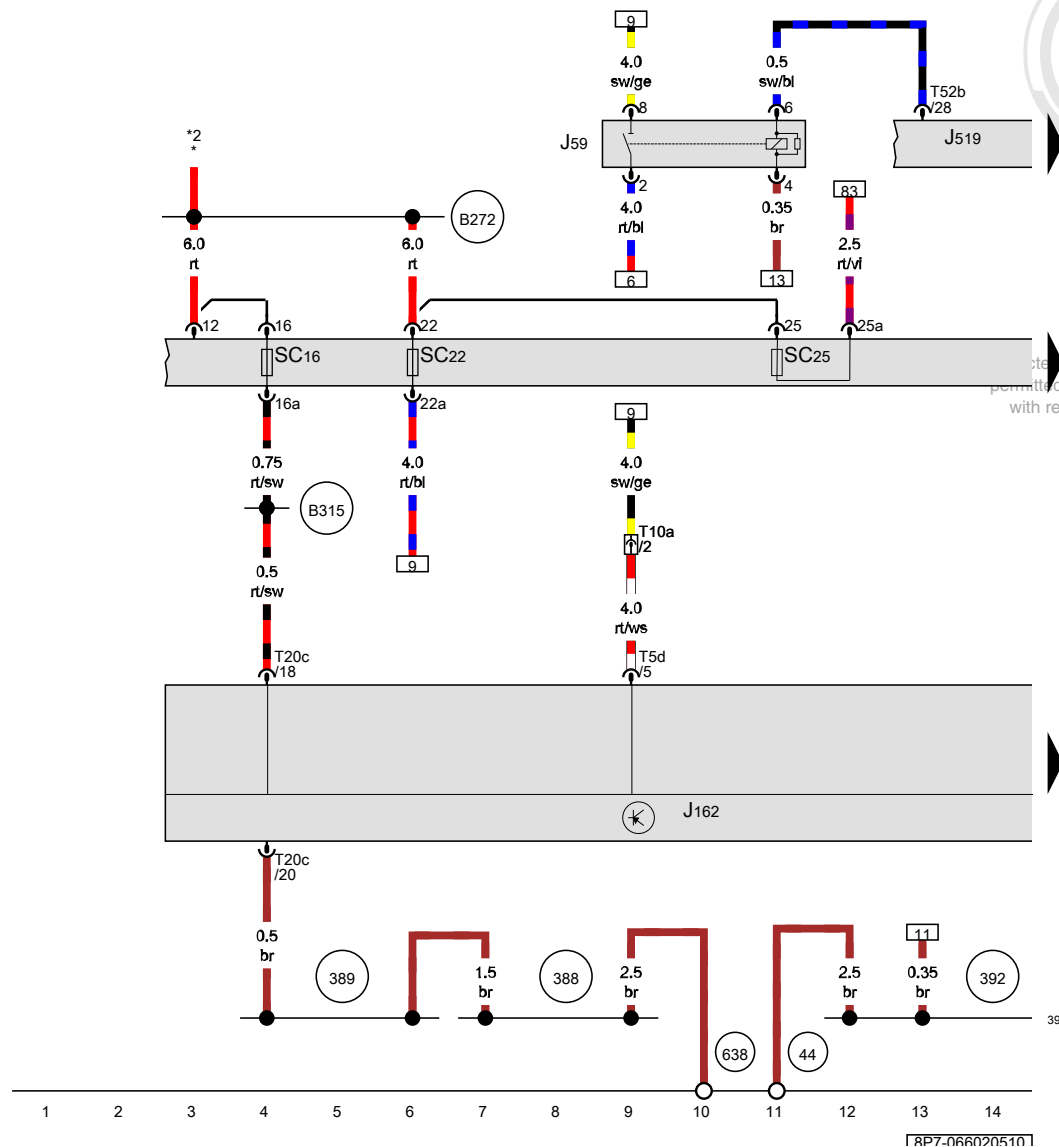
638 Earth point, on right A-pillar

B272 Positive connection (30), in main wiring harness

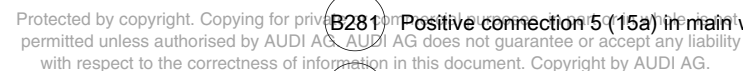
B315 Positive connection 1 (30a) in main wiring harness

* Only models with battery in engine compartment

*2 see applicable current flow diagram



- ws = white
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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



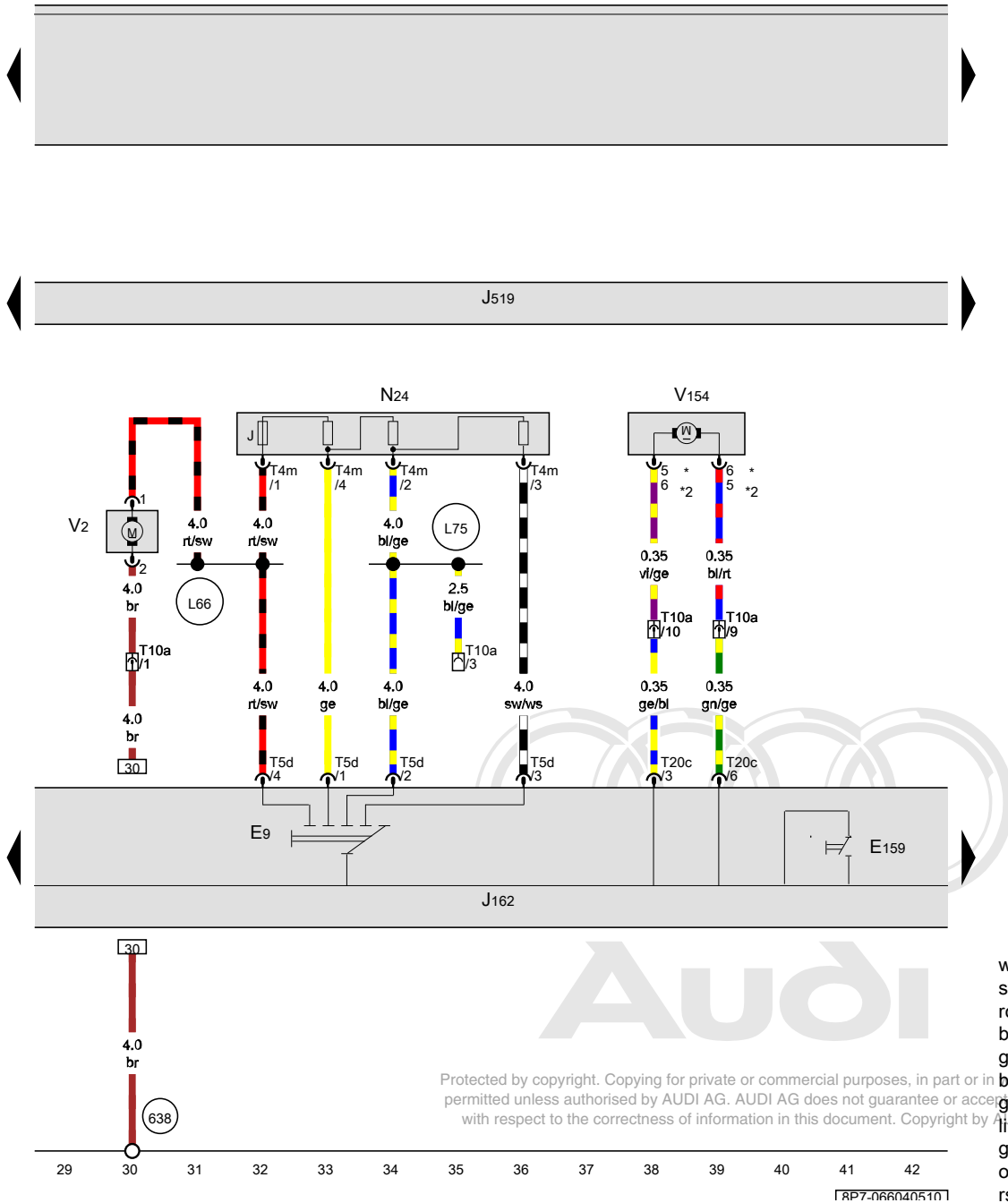
*2 see applicable current flow diagram for seat heating

8P7-066030510

Fresh air blower switch, Fresh air and air recirculation flap switch, Heater control unit, Onboard supply control unit, Fresh air blower series resistor with overheating fuse, Fresh air blower, Fresh air and air recirculation flap control motor

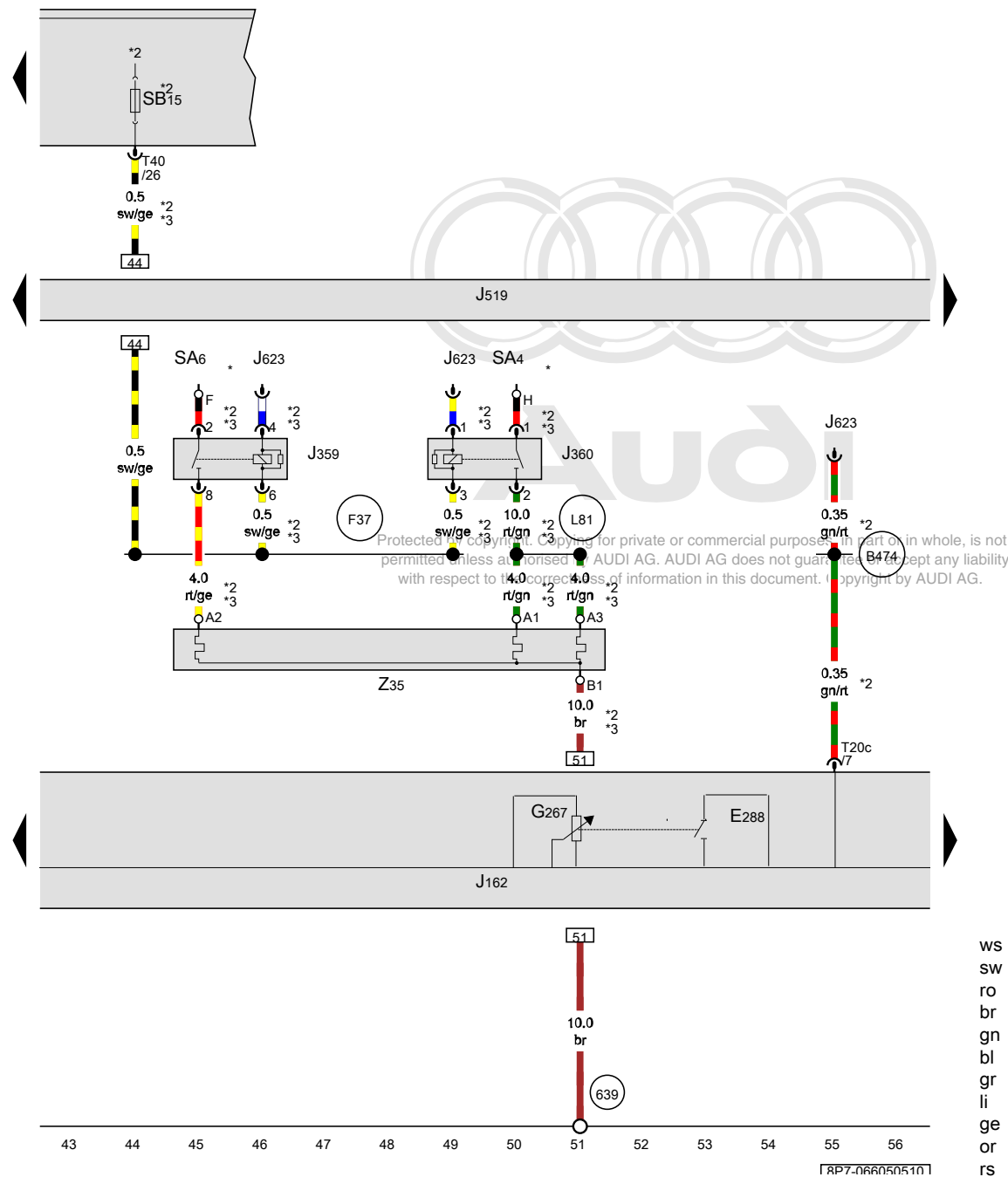
- E9 Fresh air blower switch
- E159 Fresh air and air recirculation flap switch
- J162 Heater control unit
- J519 Onboard supply control unit
- N24 Fresh air blower series resistor with overheating fuse
- T4m 4-pin connector
- T5d 5-pin connector
- T10a 10-pin connector, behind glove compartment
- T20c 20-pin connector
- V2 Fresh air blower
- V154 Fresh air and air recirculation flap control motor

- 638 Earth point, on right A-pillar
- L66 Connection, in heater blower wiring harness
- L75 Connection 2, in heater blower wiring harness
- * Only left-hand drive models
- *2 Only right-hand drive models



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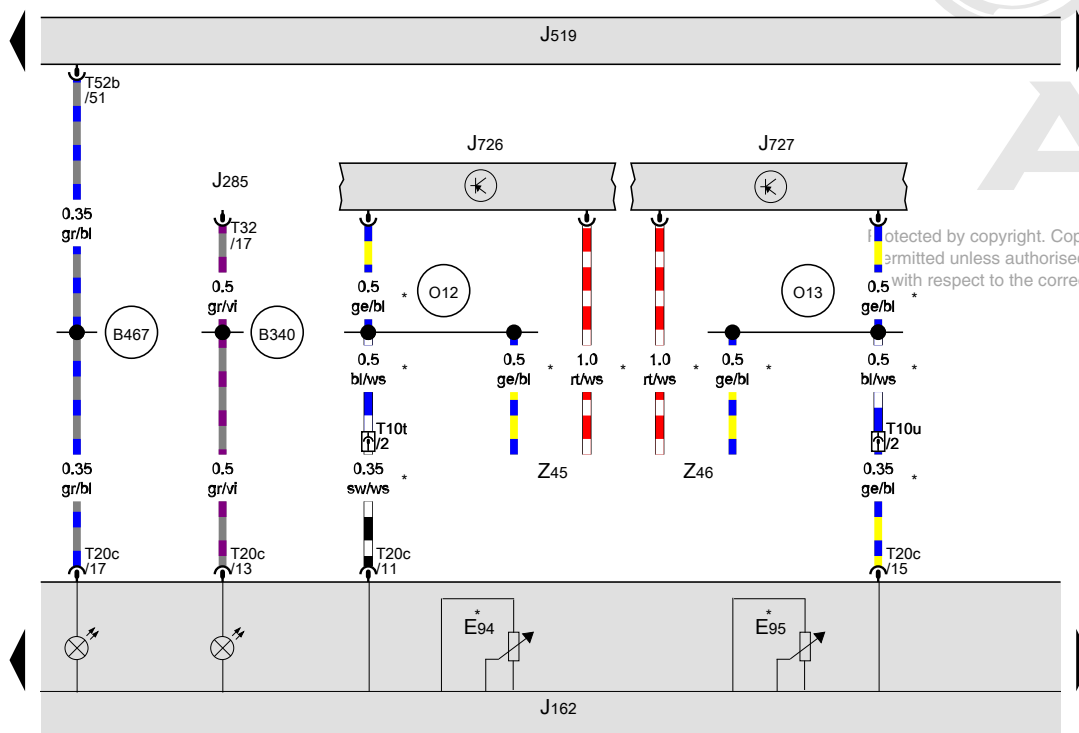


Auxiliary heater economy (ECON) button, Potentiometer for temperature selection rotary knob, Heater control unit, Low heat output relay, High heat output relay, Onboard supply control unit, Auxiliary air heater element

- E288 Auxiliary heater economy (ECON) button
- G267 Potentiometer for temperature selection rotary knob
- J162 Heater control unit
- J359 Low heat output relay
- J360 High heat output relay
- J519 Onboard supply control unit
- J623 Engine control unit
- SA4 Fuse 4 in fuse holder A
- SA6 Fuse 6 in fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector
- T40 40-pin connector
- Z35 Auxiliary air heater element
- 639 Earth point, left A-pillar
- B474 Connection 10, in main wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- L81 Connection in supplementary heater wiring harness
- * see applicable current flow diagram for battery in engine compartment
- *2 see applicable current flow diagram for engine
- *3 Only models with diesel engines

Heated driver seat regulator, Heated front passenger seat regulator, Heater control unit, Onboard supply control unit, Driver seat heating control unit, Front passenger seat heating control unit

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- J162 Heater control unit
- J285 Control unit in dash panel insert
- J519 Onboard supply control unit
- J726 Driver seat heating control unit
- J727 Front passenger seat heating control unit
- T10t 10-pin connector, under driver seat
- T10u 10-pin connector, under front passenger seat
- T20c 20-pin connector
- T32 32-pin connector
- T52b 52-pin connector
- Z45 Heated seat cushion for front left seat
- Z46 Heated seat cushion for front right seat



B340 Connection 1 (58d), in main wiring harness

B467 Connection 3, in main wiring harness

O12 Connection 1, in seat heating wiring harness

O13 Connection 2, in seat heating wiring harness

* see applicable current flow diagram for seat heating

- ws = white
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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

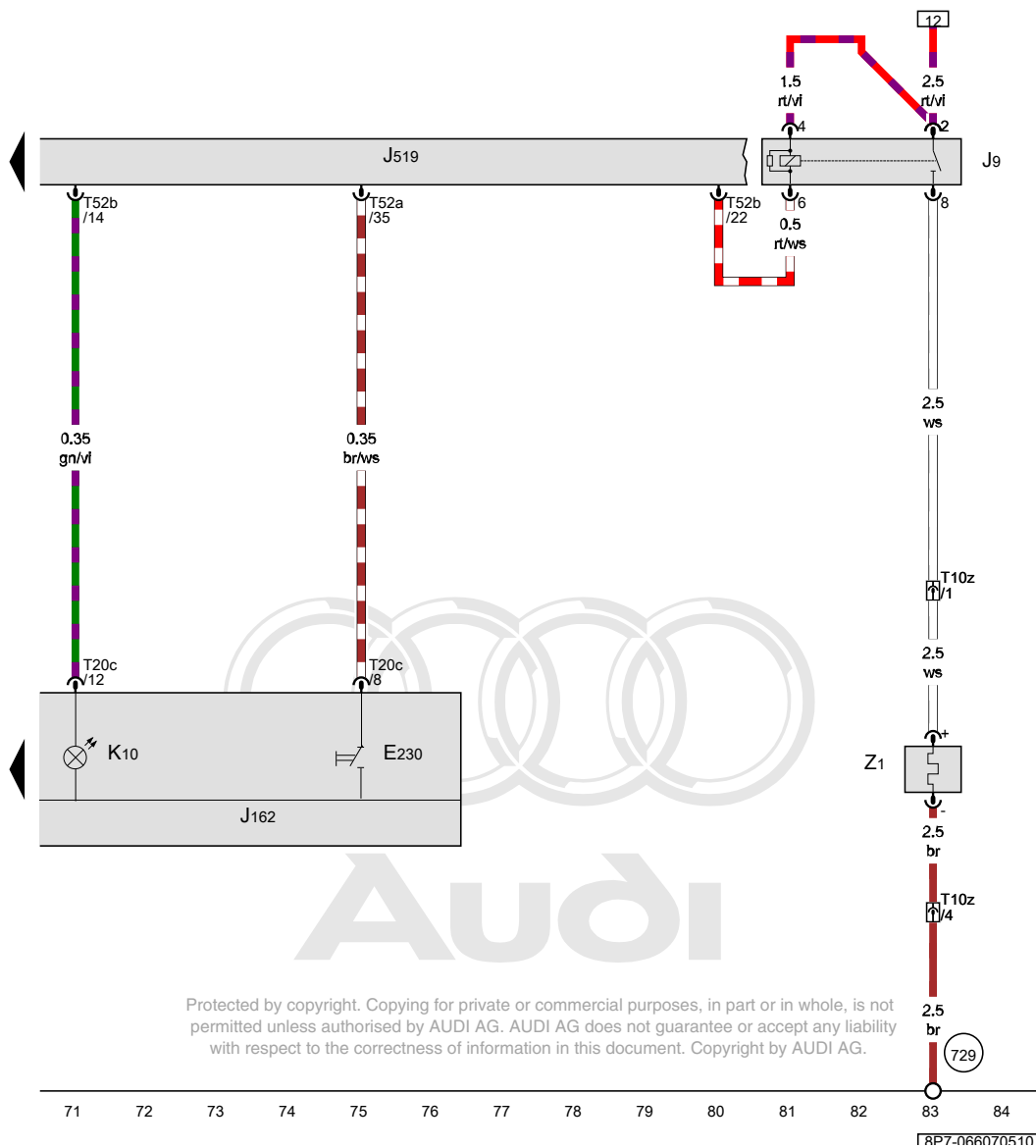
57 58 59 60 61 62 63 64 65 66 67 68 69 70

1AP7-0660605101

Heated rear window relay, Heater control unit, Onboard supply control unit, Heated rear window

- E230 Heated rear window button
- J9 Heated rear window relay
- J162 Heater control unit
- J519 Onboard supply control unit
- K10 Heated rear window warning lamp
- T10z 10-pin connector, behind left side trim in luggage compartment
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- Z1 Heated rear window

729 Earth point, on left rear wheel housing



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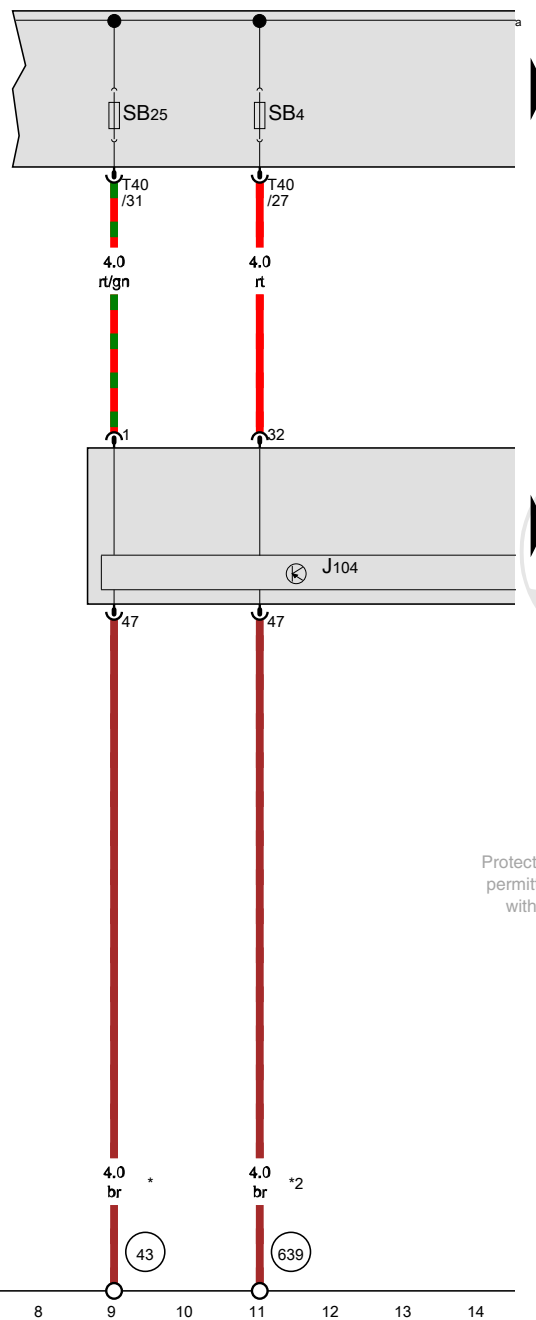


Anti-lock brake system (ABS) with electronic stabilisation program (ESP), traction control system (TCS) and hydraulic brake servo (HBS)

From May 2009



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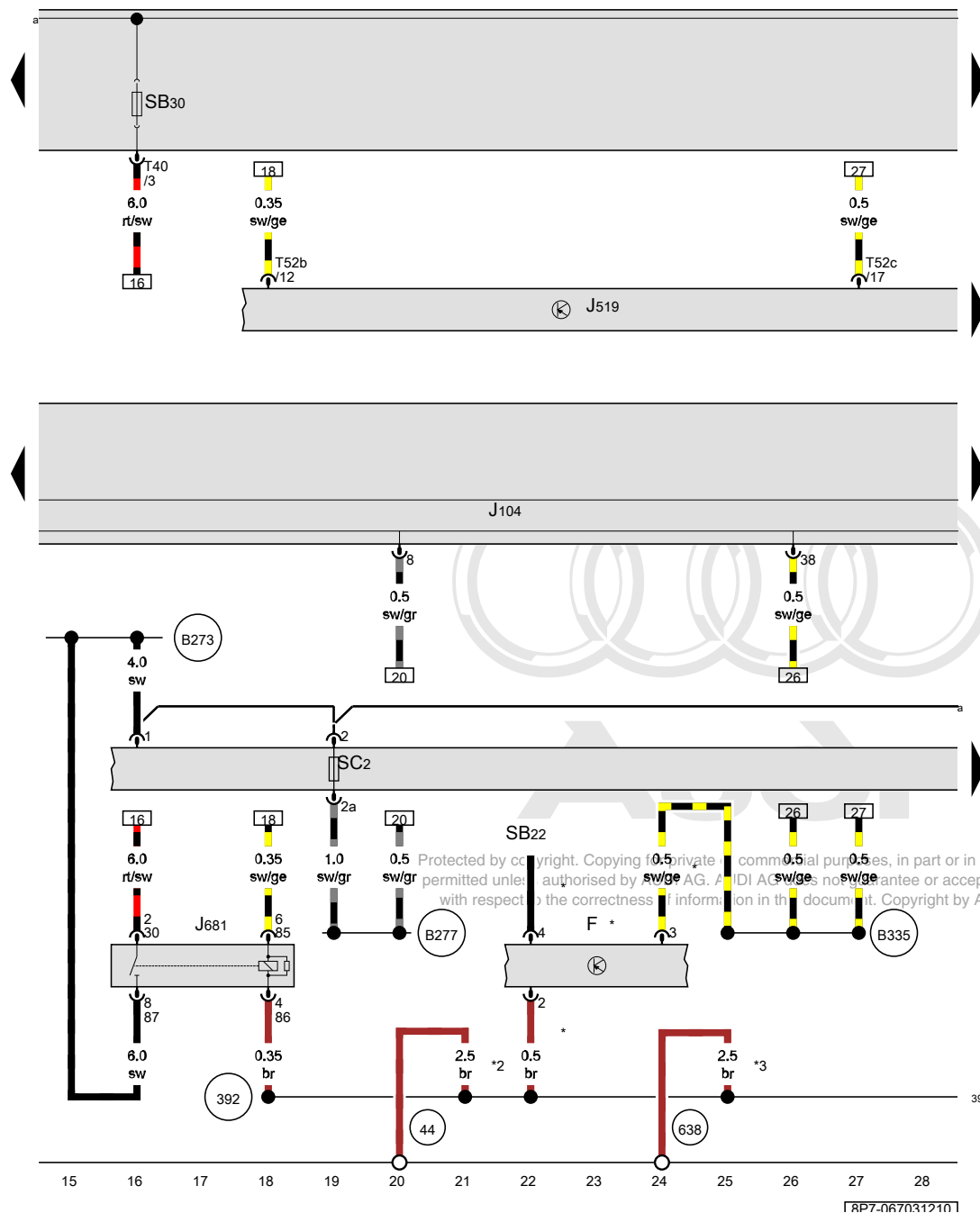
ABS control unit

- J104 ABS control unit
- SB4 Fuse 4 on fuse holder B
- SB25 Fuse 25 on fuse holder B
- T40 40-pin connector

- 43 Earth point, lower part of right A-pillar
- 639 Earth point, left A-pillar
- * Only left-hand drive models
- *2 Only right-hand drive models

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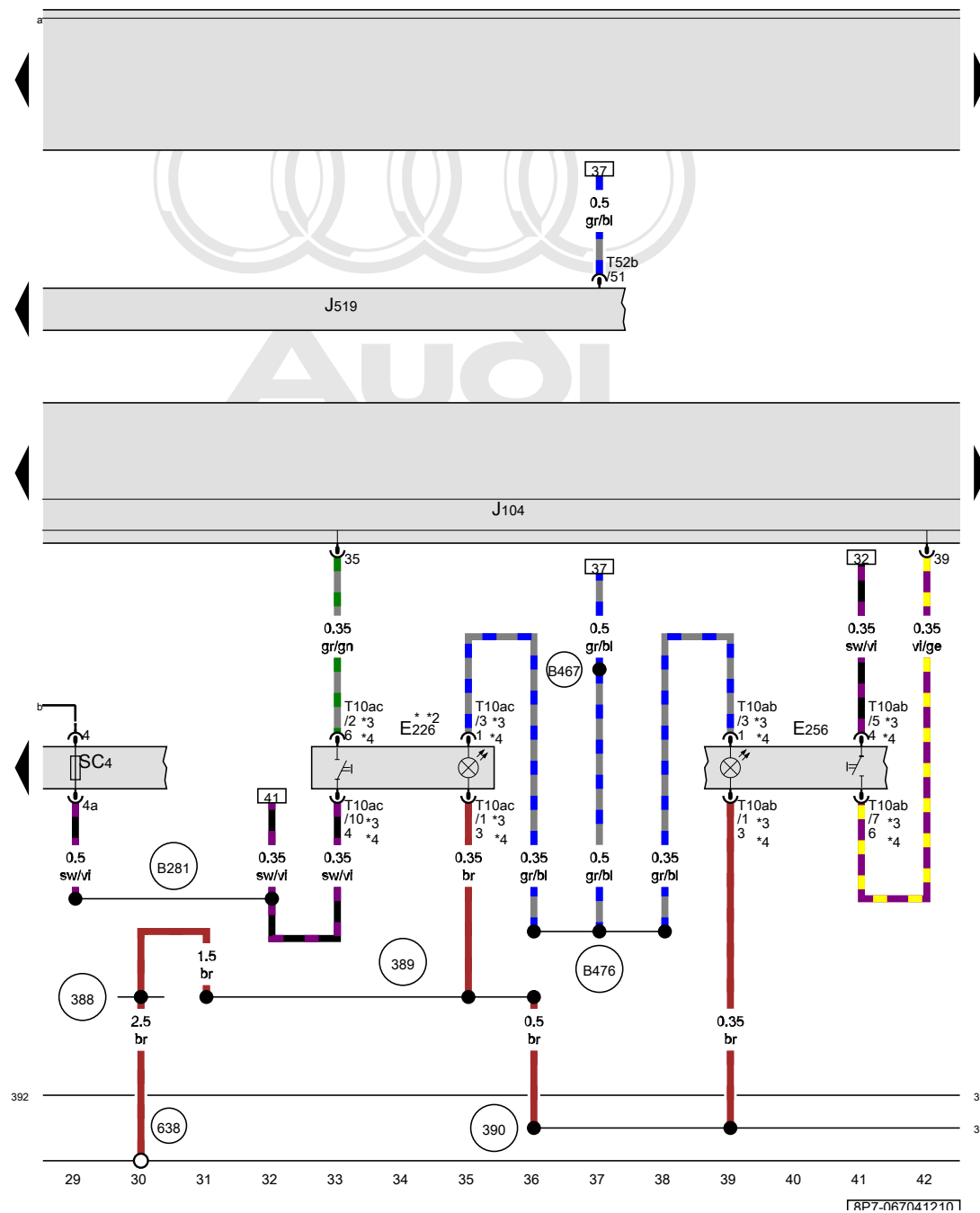


Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB22 Fuse 22 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

- * see applicable current flow diagram for engine
- *2 Only left-hand drive models
- *3 Only right-hand drive models



Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

- E226 Tyre pressure monitor button
- E256 TCS and ESP button
- J104 ABS control unit
- J519 Onboard supply control unit
- SC4 Fuse 4 on fuse holder C
- T10ab 10-pin connector
- T10ac 10-pin connector
- T52b 52-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

- * Only models with tyre pressure monitor
- *2 If fitted
- *3 gradual introduction
- *4 Gradually discontinued

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gr = grey
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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit
- V64 ABS hydraulic pump

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B510 Connection 1 (rear right speed sensor), in interior wiring harness

B511 Connection 2 (rear right speed sensor), in interior wiring harness

B512 Connection 1 (rear left speed sensor), in interior wiring harness

B513 Connection 2 (rear left speed sensor), in interior wiring harness

J3 Connection 1, in ABS wiring harness

J5 Connection 2, in ABS wiring harness

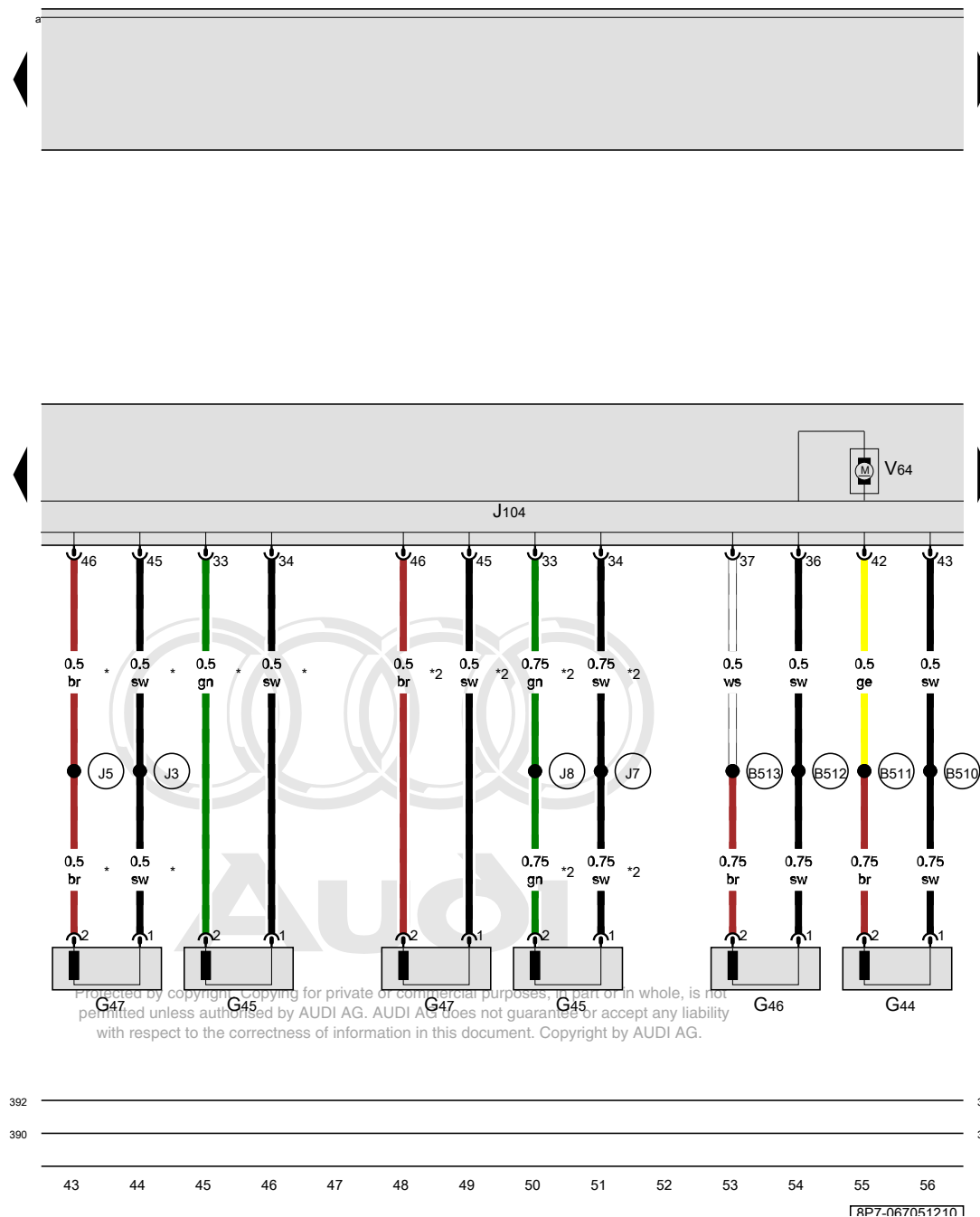
J7 Connection 3, in ABS wiring harness

J8 Connection 4, in ABS wiring harness

* Only left-hand drive models

*2 Only right-hand drive models

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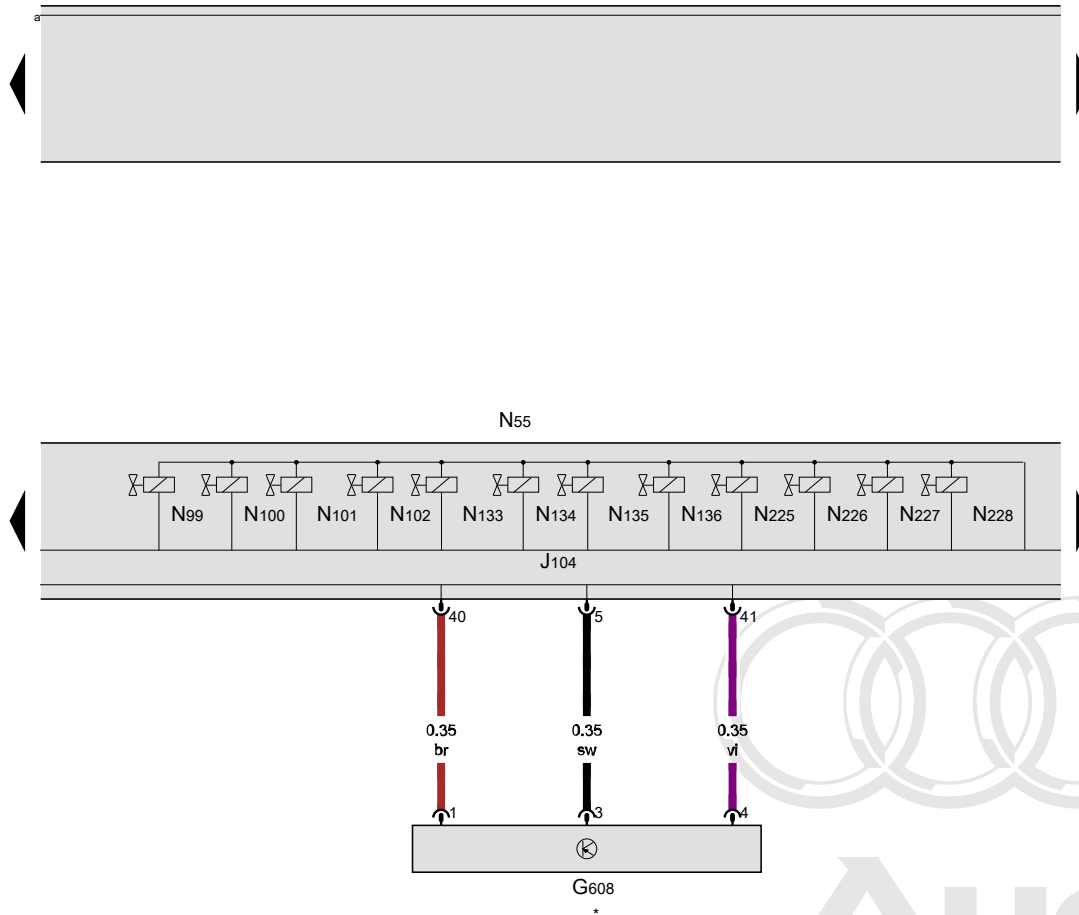
Vacuum sender, ABS control unit, ABS hydraulic unit

- G608 Vacuum sender
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

* According to equipment

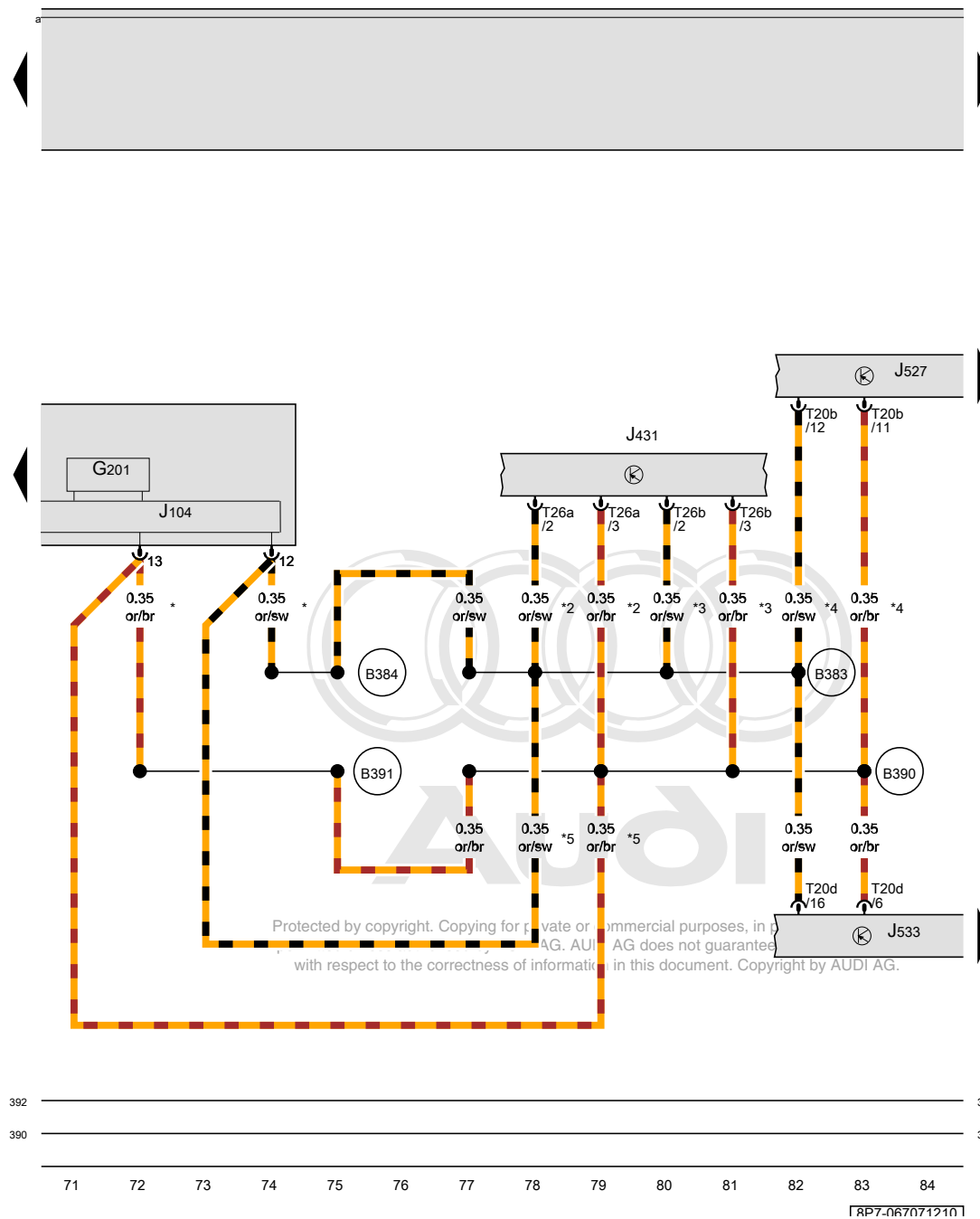


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392	57	58	59	60	61	62	63	64	65	66	67	68	69	70	392
390															390

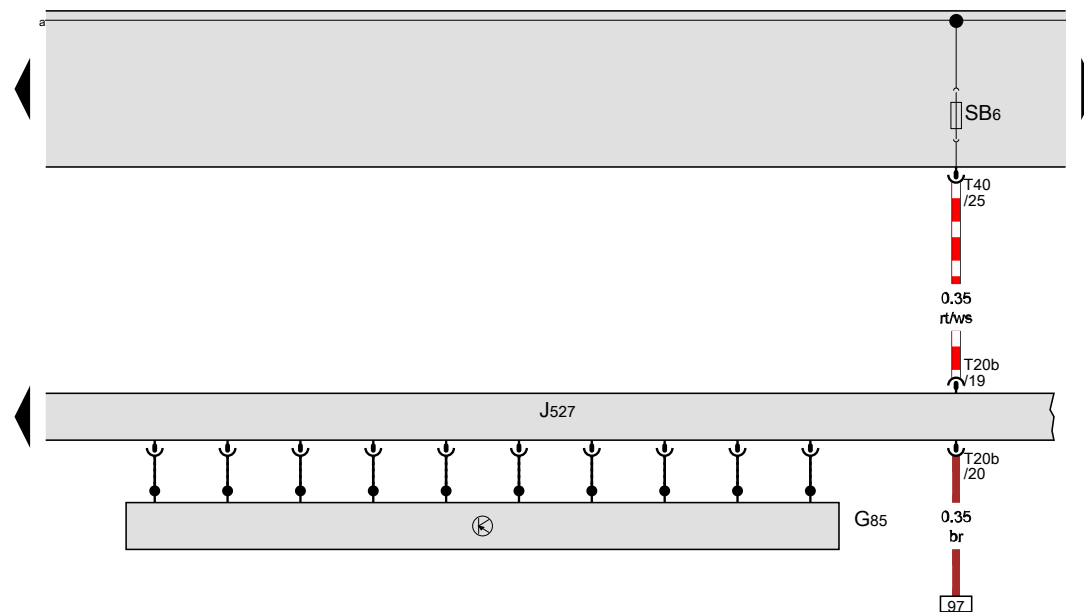
18P7-0670R12101



Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

- G201 Brake pressure sender 1
- J104 ABS control unit
- J431 Headlight range control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T20b 20-pin connector
- T20d 20-pin connector
- T26a 26-pin connector
- T26b 26-pin connector

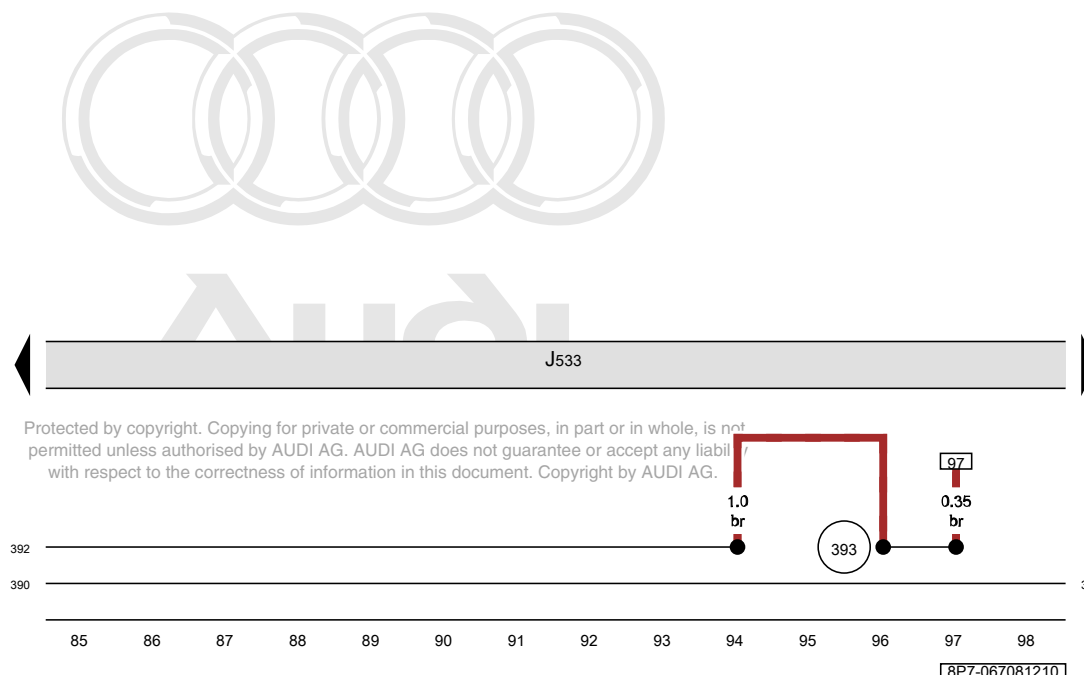
- 390 Earth connection 25, in main wiring harness
 - 392 Earth connection 27, in main wiring harness
 - B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
 - B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
 - B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
 - B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- * Only left-hand drive models
- *2 According to equipment
- *3 Only models with dynamic cornering light
- *4 If fitted
- *5 Only right-hand drive models



Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

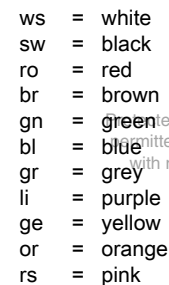
- G85 Steering angle sender
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness



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- or = orange
- rs = pink



J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K47	ABS warning lamp
K155	ESP and TCS warning lamp
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector

- | | |
|------|--|
| 390 | Earth connection 25, in main wiring harness |
| B482 | Connection 18, in main wiring harness |
| B708 | Connection 1 (dash panel insert CAN bus high) in main wiring harness |
| B709 | Connection 1 (dash panel insert CAN bus low) in main wiring harness |
| * | Gradually discontinued |

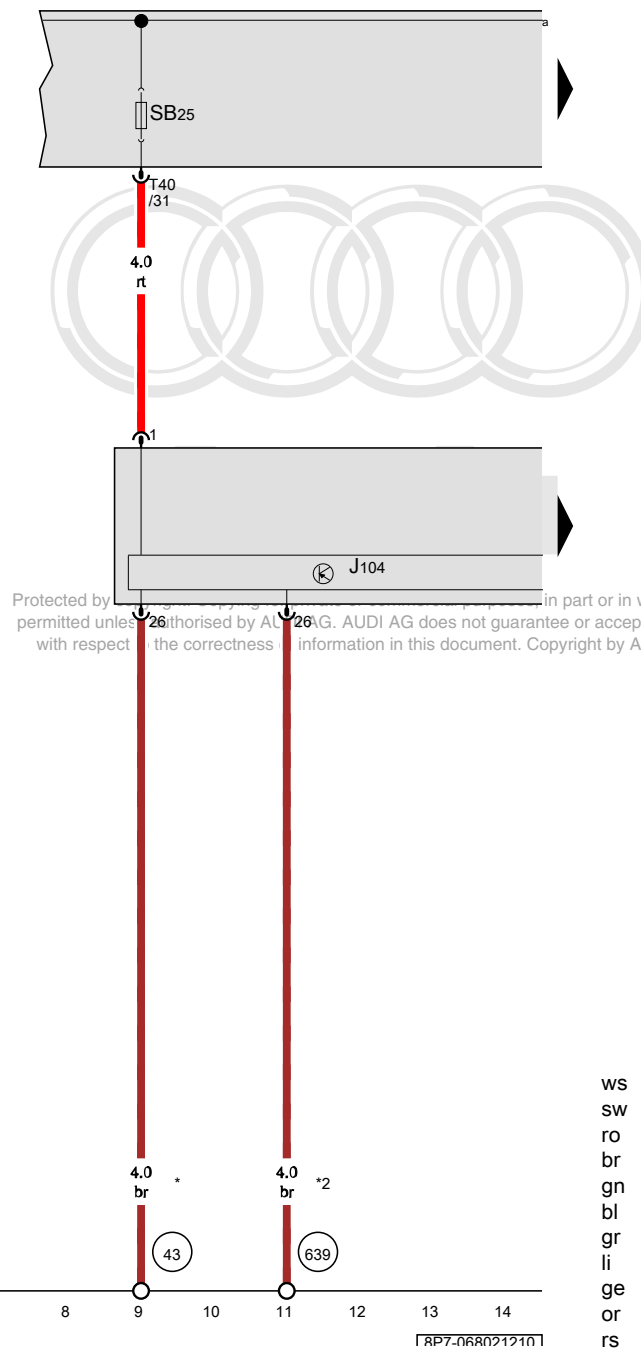


Anti-lock brake system (ABS) with traction control system (TCS)

From May 2009



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ABS control unit

J104 ABS control unit

SB25 Fuse 25 on fuse holder B

T40 40-pin connector

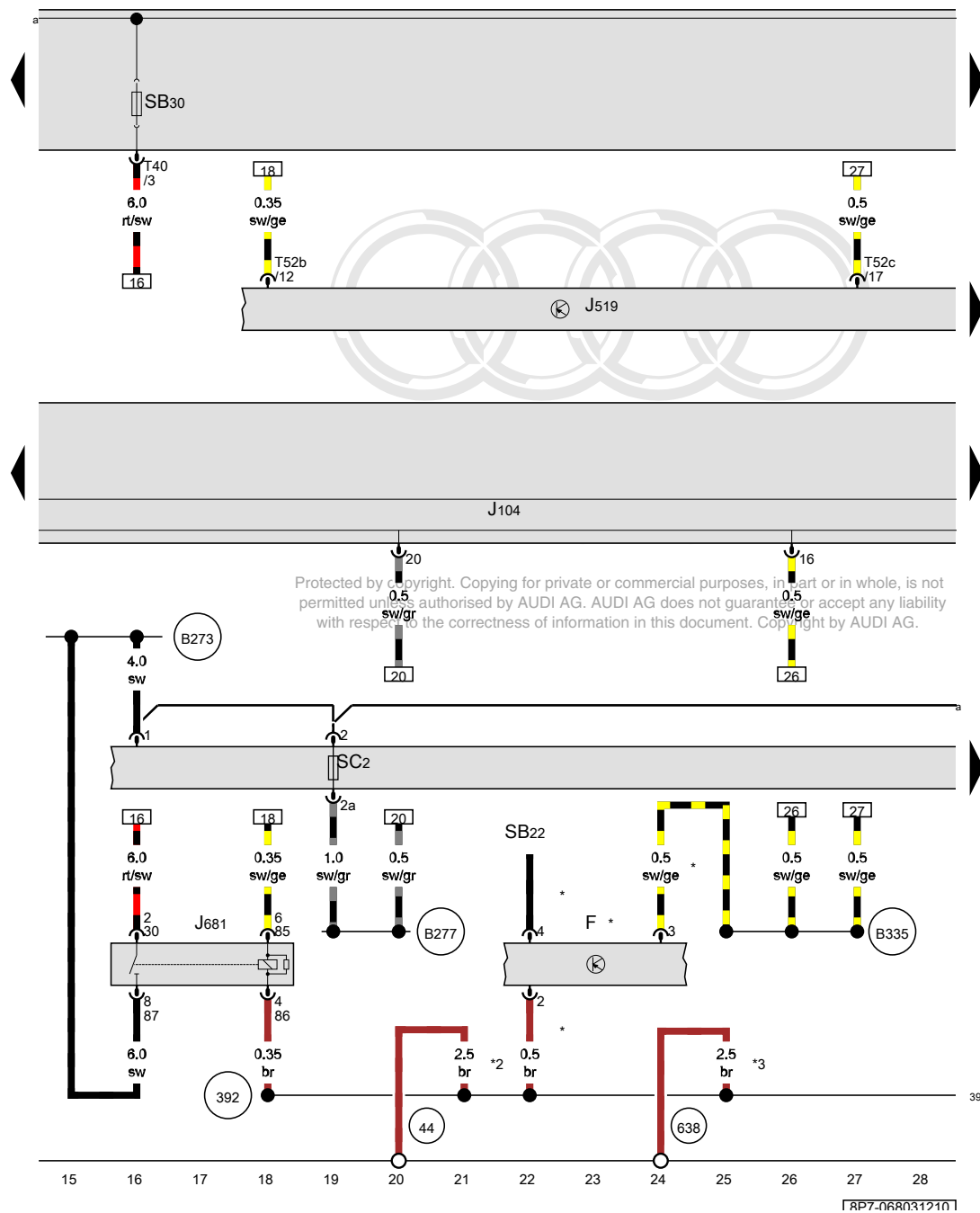
43 Earth point, lower part of right A-pillar

639 Earth point, left A-pillar

* Only left-hand drive models

*2 Only right-hand drive models

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



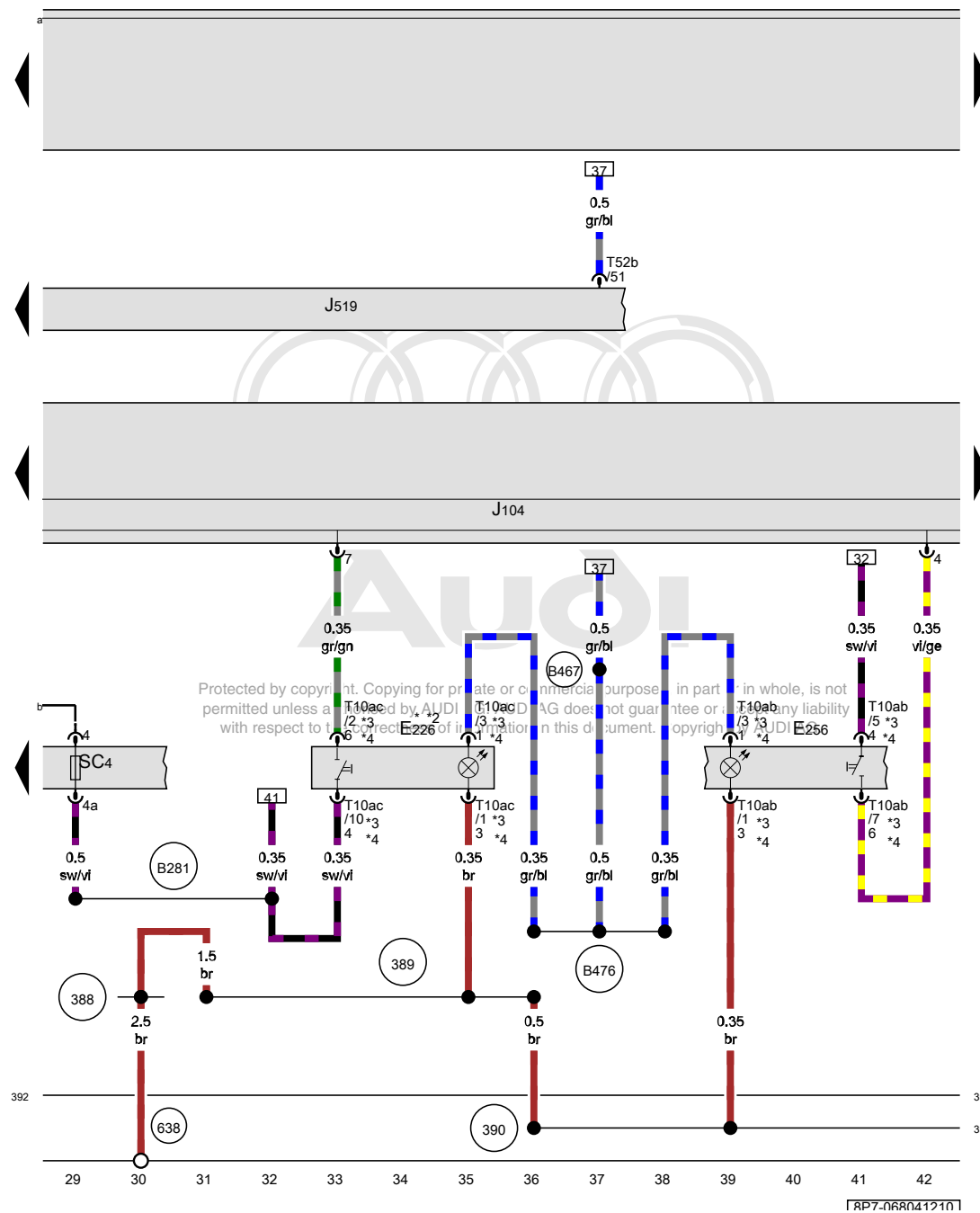
Brake light switch, ABS control unit, Onboard supply control unit, Terminal 15 voltage supply relay 2

- F Brake light switch
- J104 ABS control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SB22 Fuse 22 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness

- * see applicable current flow diagram for engine
- *2 Only left-hand drive models
- *3 Only right-hand drive models

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



Tyre pressure monitor button, TCS and ESP button, ABS control unit, Onboard supply control unit

- | | |
|-------|------------------------------|
| E226 | Tyre pressure monitor button |
| E256 | TCS and ESP button |
| J104 | ABS control unit |
| J519 | Onboard supply control unit |
| SC4 | Fuse 4 on fuse holder C |
| T10ab | 10-pin connector |
| T10ac | 10-pin connector |
| T52b | 52-pin connector |

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B281 Positive connection 5 (15a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness

- * Only models with tyre pressure monitor
- *2 If fitted
- *3 gradual introduction
- *4 Gradually discontinued

ws = white
sw = black
ro = red
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gn = green
bl = blue
gr = grey
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Rear right speed sensor, Front right speed sensor, Rear left speed sensor, Front left speed sensor, ABS control unit

- G44 Rear right speed sensor
- G45 Front right speed sensor
- G46 Rear left speed sensor
- G47 Front left speed sensor
- J104 ABS control unit
- V64 ABS hydraulic pump

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

B510 Connection 1 (rear right speed sensor), in interior wiring harness

B511 Connection 2 (rear right speed sensor), in interior wiring harness

B512 Connection 1 (rear left speed sensor), in interior wiring harness

B513 Connection 2 (rear left speed sensor), in interior wiring harness

J3 Connection 1, in ABS wiring harness

J5 Connection 2, in ABS wiring harness

J7 Connection 3, in ABS wiring harness

J8 Connection 4, in ABS wiring harness

* Only left-hand drive models

*2 Only right-hand drive models

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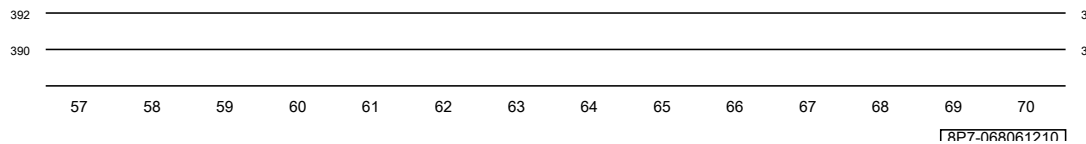
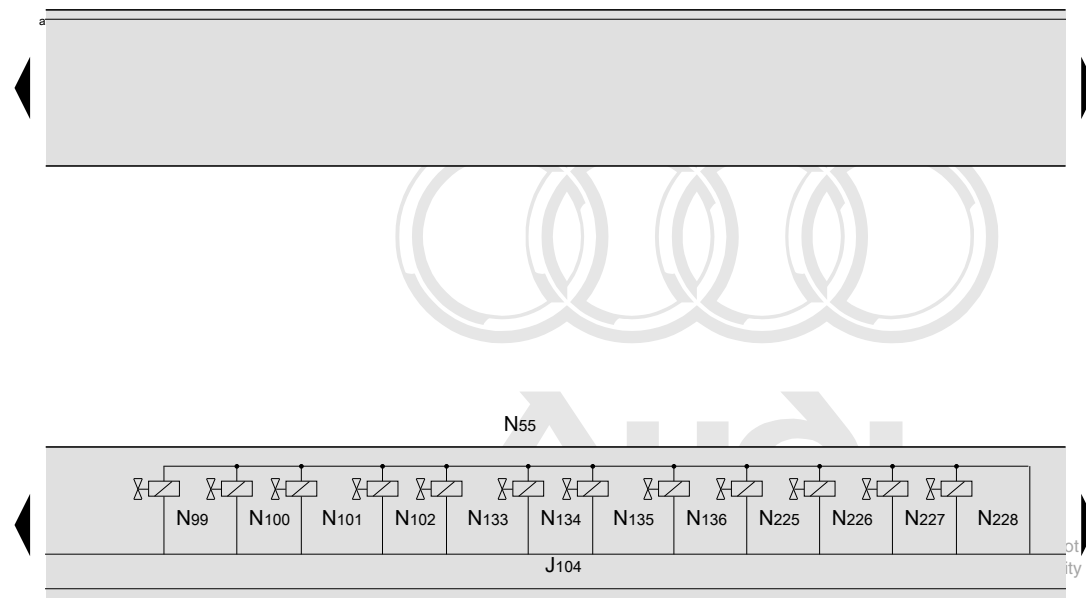
1AP7-06R0512101

ABS control unit, ABS hydraulic unit

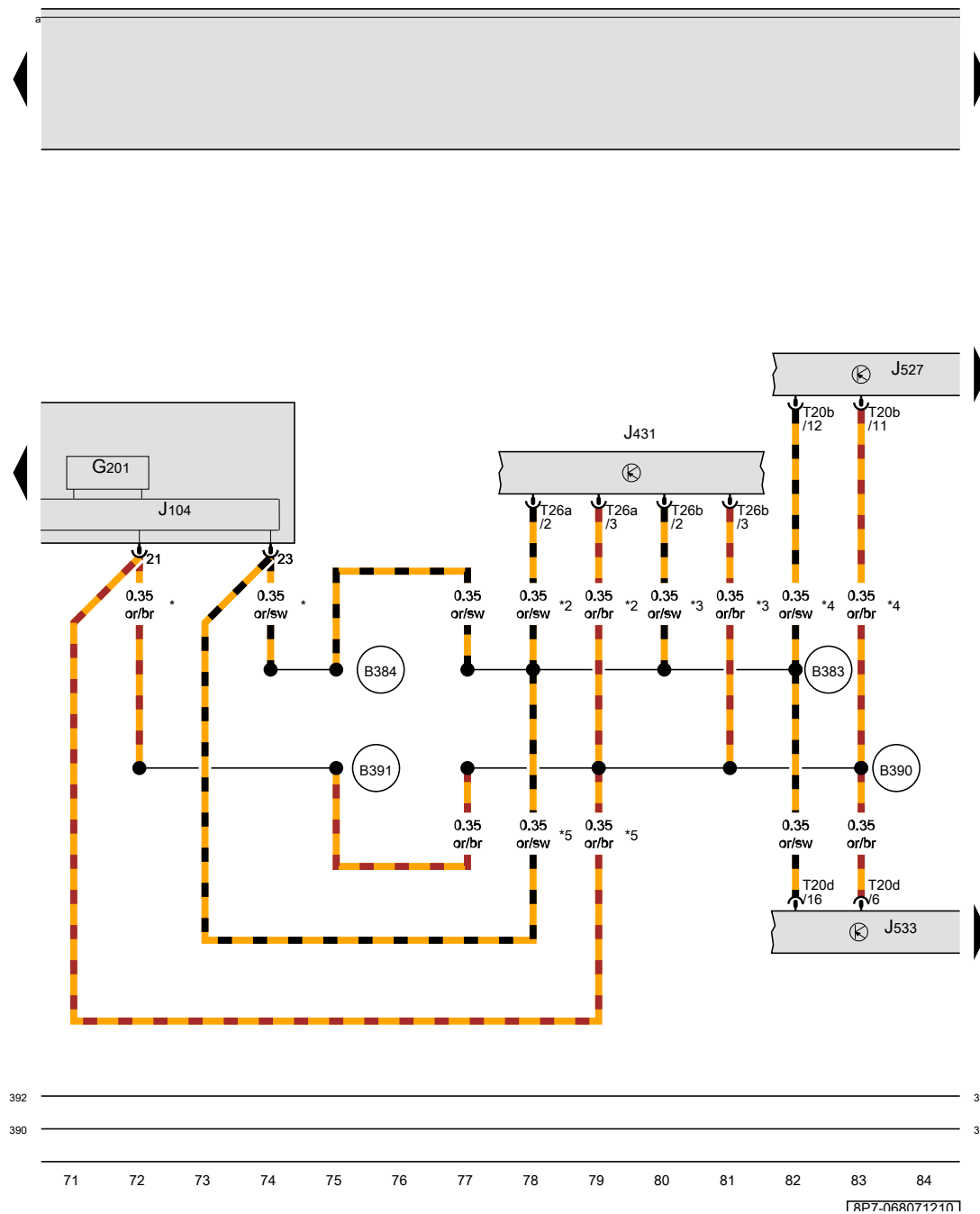
- J104 ABS control unit
- N55 ABS hydraulic unit
- N99 Front right ABS inlet valve
- N100 Front right ABS outlet valve
- N101 Front left ABS inlet valve
- N102 Front left ABS outlet valve
- N133 Rear right ABS inlet valve
- N134 Rear left ABS inlet valve
- N135 Rear right ABS outlet valve
- N136 Rear left ABS outlet valve
- N225 Vehicle stabilization program switch valve 1
- N226 Vehicle stabilization program switch valve 2
- N227 Vehicle stabilization program high-pressure valve 1
- N228 Vehicle stabilization program high-pressure valve 2

390 Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness



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- or = orange
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Brake pressure sender 1, ABS control unit, Headlight range control unit, Steering column electronics control unit, Data bus diagnostic interface

G201	Brake pressure sender 1
J104	ABS control unit
J431	Headlight range control unit
J527	Steering column electronics control unit
J533	Data bus diagnostic interface
T20b	20-pin connector
T20d	20-pin connector
T26a	26-pin connector
T26b	26-pin connector

(390) Earth connection 25, in main wiring harness

392 Earth connection 27, in main wiring harness

(B383) Connection 1 (powertrain CAN bus, high), in main wiring harness

(B384) Connection 2 (powertrain CAN bus, high), in main wiring harness

(B390) Connection 1 (powertrain CAN bus, low), in main wiring harness

(B391) Connection 2 (powertrain CAN bus, low), in main wiring harness

* Only left-hand drive models

*2 According to equipment

*3 Only models with dynamic cornering light

*4 If fitted

*5 Only right-hand drive models

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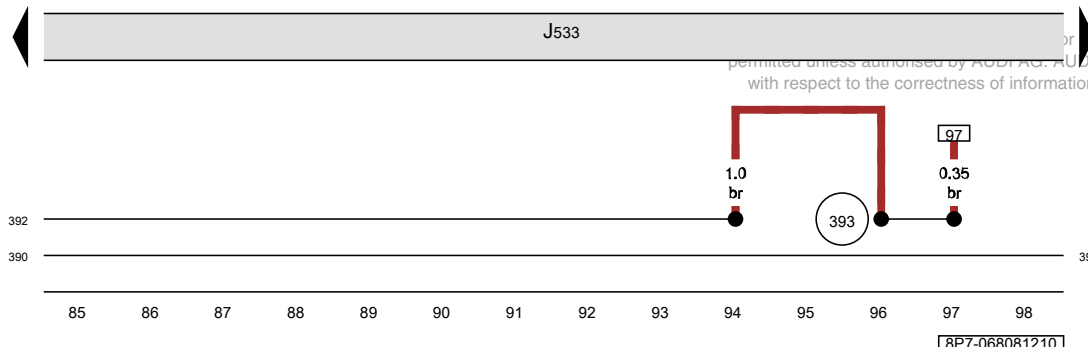
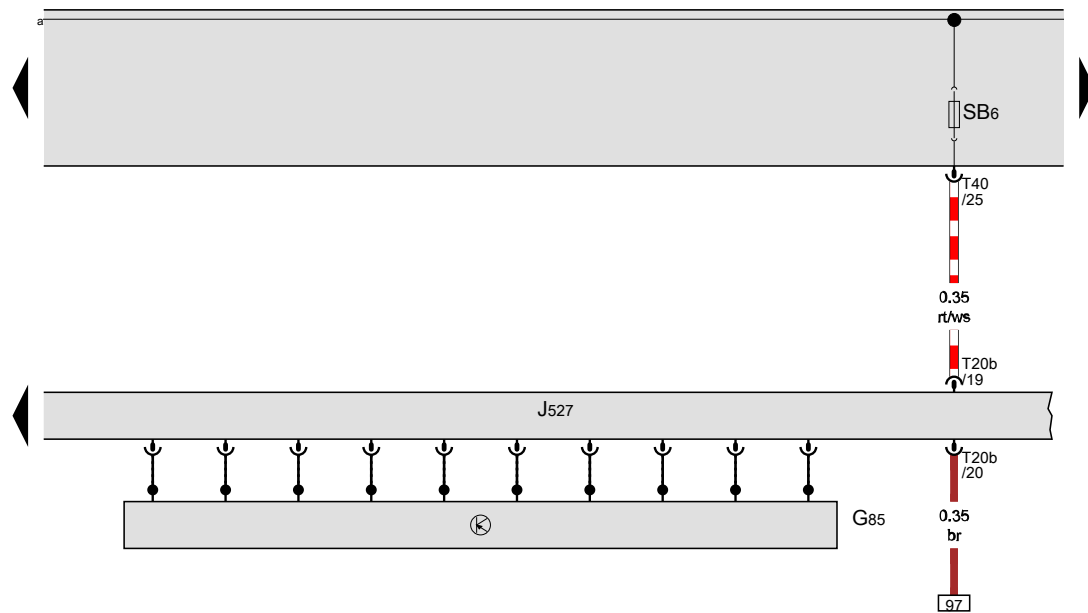
ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
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rs = pink



Steering angle sender, Steering column electronics control unit, Data bus diagnostic interface

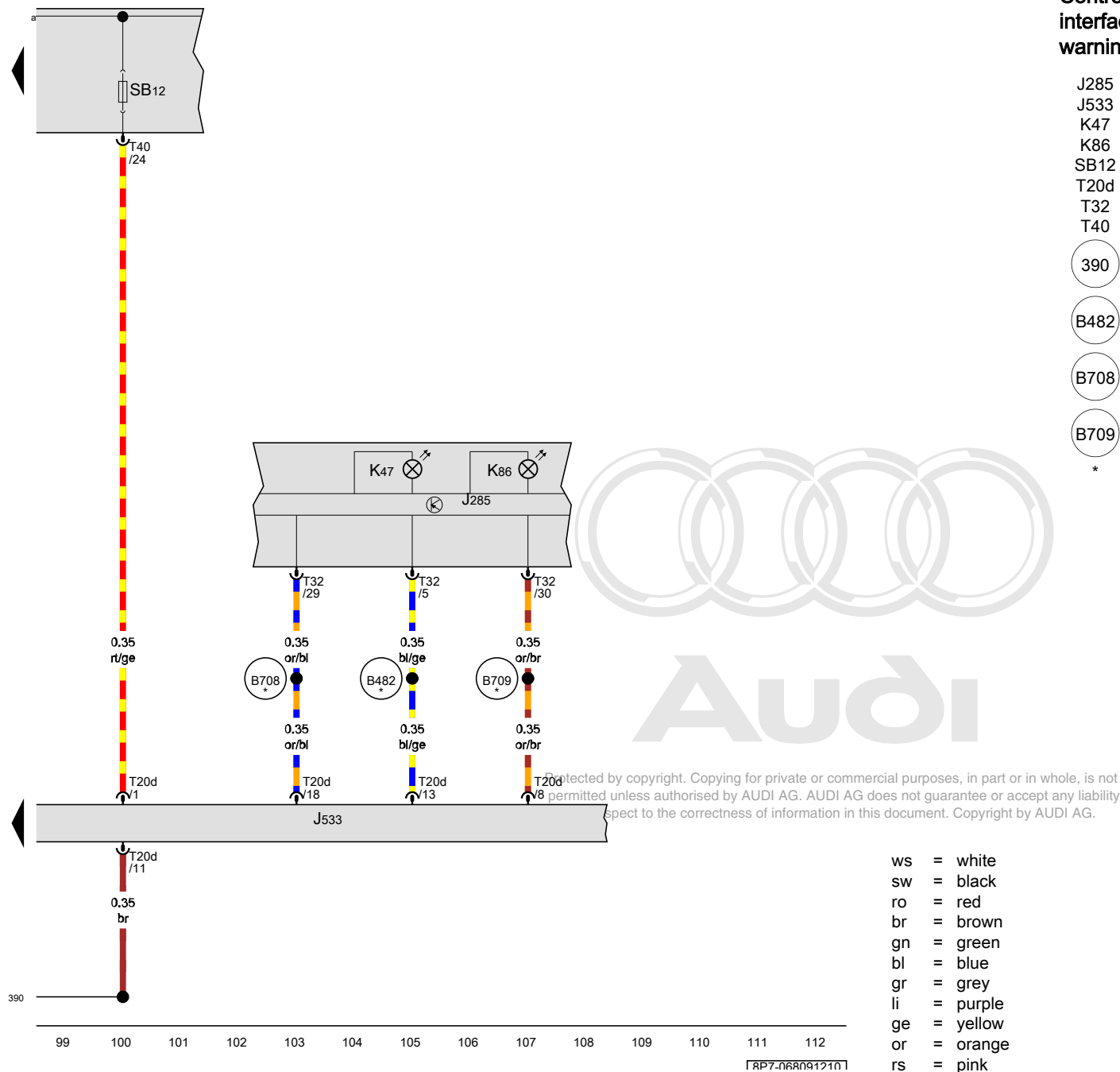
- G85 Steering angle sender
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness



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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

18P7-06A0012101





Preparation for radio trade product

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

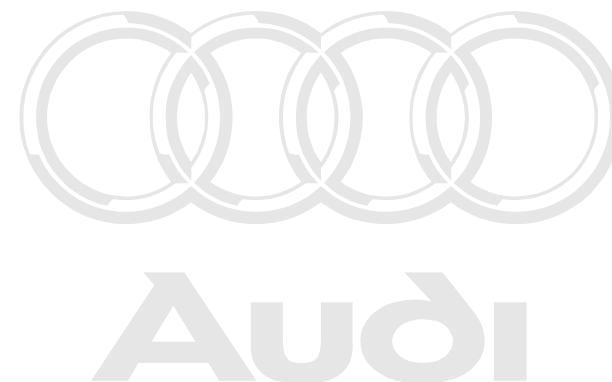
- ◆ Earth connections

⇒ List of Fitting Locations!

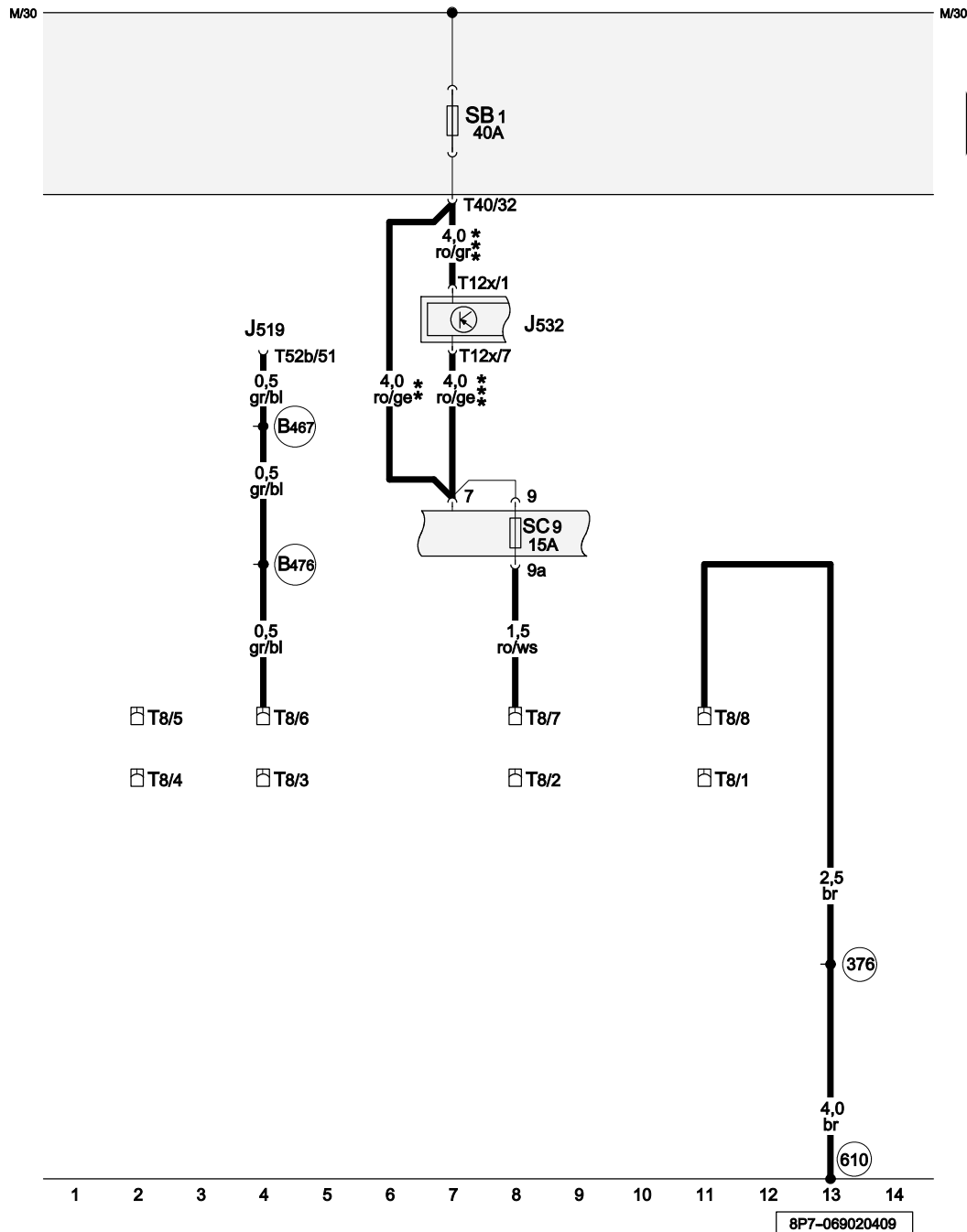
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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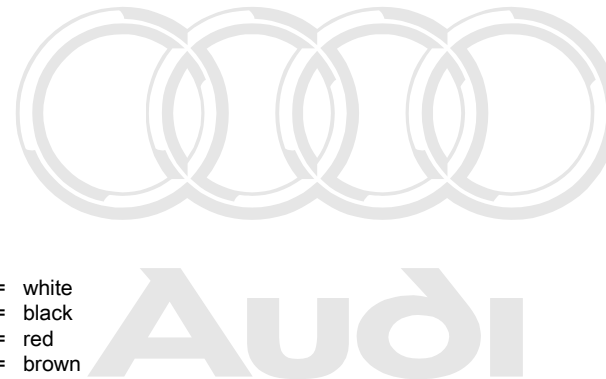


Voltage supply

- J519 Onboard supply control unit
- J532 Voltage stabiliser
- SB1 Fuse 1 on fuse holder B
- SC9 Fuse 9 on fuse holder C
- T8 8-pin connector, black (connector A)
- T12x 12-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)

- 376 Earth connection 11, in main wiring harness
- 610 Earth point (audio), under centre console, front
- B467 Connection 3 in main wiring harness
- B476 Connection 12, in main wiring harness
- ** only models without stop/start system
- *** only models with stop/start system

ws = white
 sw = black
 ro = red
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 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink

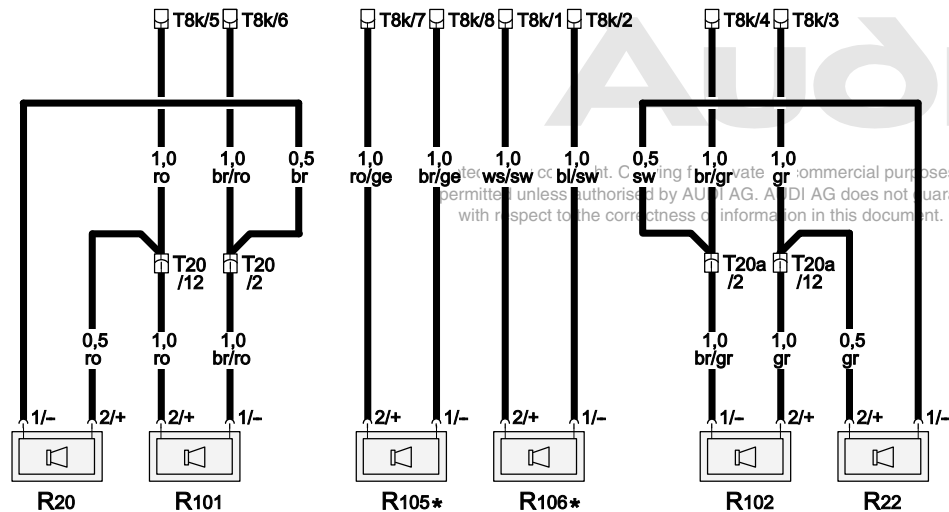


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Front and rear loudspeaker

- R20 Front left treble loudspeaker
- R22 Front right treble loudspeaker
- R101 Front left mid-range and bass loudspeaker
- R102 Front right mid-range and bass loudspeaker
- R105 Rear left mid-range loudspeaker
- R106 Rear right mid-range loudspeaker
- T8k 8-pin connector, brown (connector B)
- T20 20-pin connector, black, door A-pillar left
- T20a 20-pin connector, black, door A-pillar right for models with rear loudspeaker only



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15 16 17 18 19 20 21 22 23 24 25 26 27 28

8P7-069030409

M/30

— M/30

Aerial amplifier 2, windscreen aerial

J519 Onboard supply control unit

R111 Aerial amplifier 2

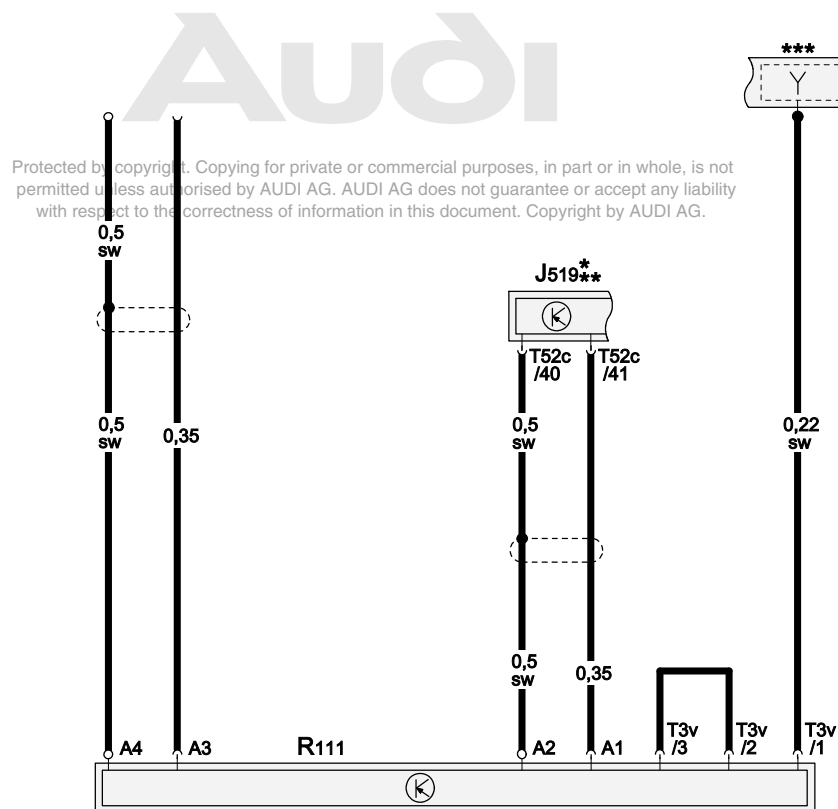
T3v 3-pin connector

T52c 52-pin connector, brown (connector C)

* for models with central locking or anti-theft alarm system only

** no longer fitted, phased

*** windscreen aerial right



ws = white
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29	30	31	32	33	34	35	36	37	38	39	40	41	42
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8P7-069040410



Front seat heating with manual seat adjustment

- ⇒ for manual regulation with heater only
- ⇒ for air conditioner with manual regulation only

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

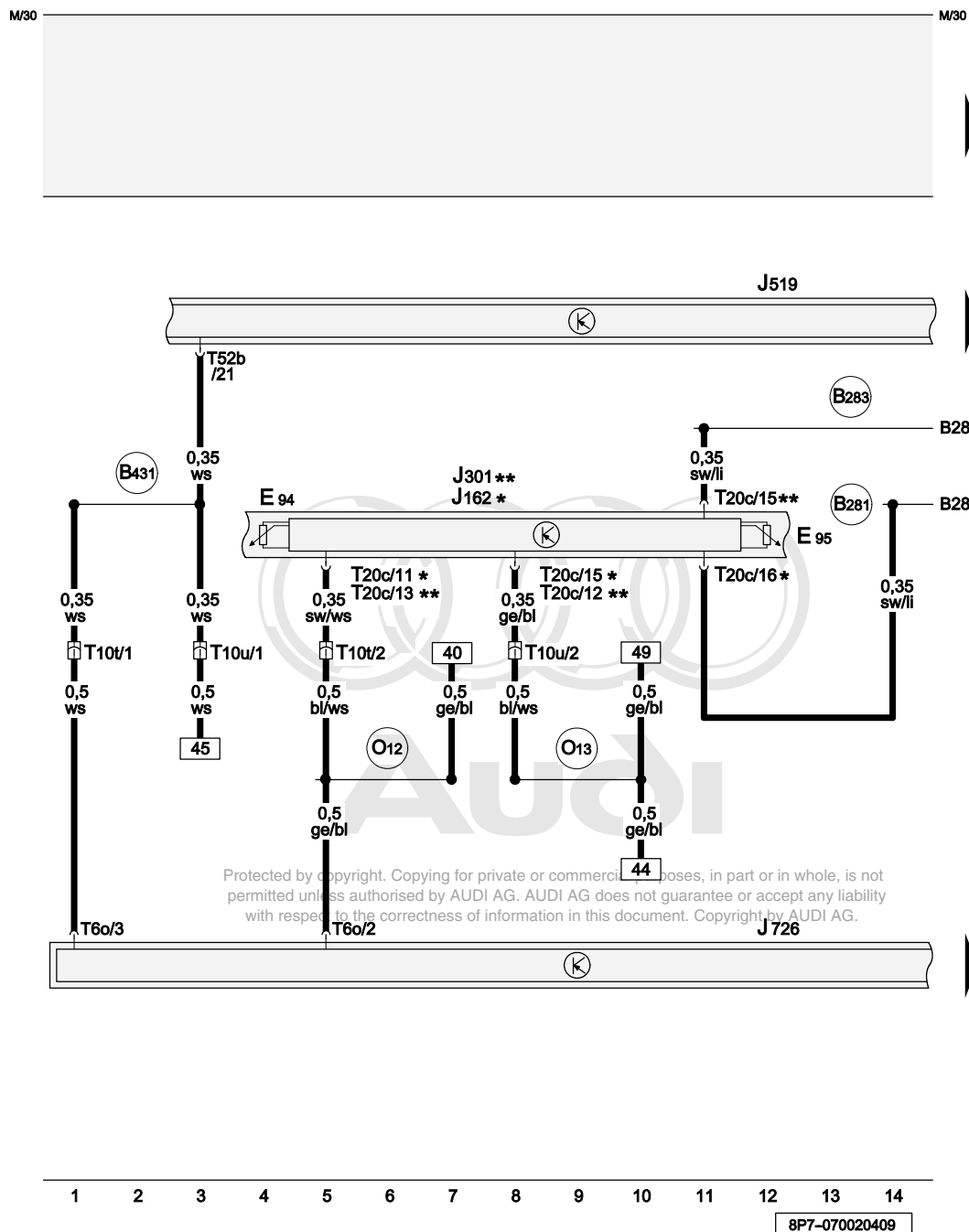
- ⇒ List of Fitting Locations!

For information concerning

- ◆ Fault Finding Programs

- ⇒ guided fault finding

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Heated driver seat regulator, heated front passenger seat regulator

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- J162 Heater control unit
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- J726 Driver seat heating control unit
- T6o 6-pin connector, black, on driver seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T20c 20-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)

B281 Positive connection 5 (15a), in main wiring harness

B283 Positive connection 7 (15a), in main wiring harness

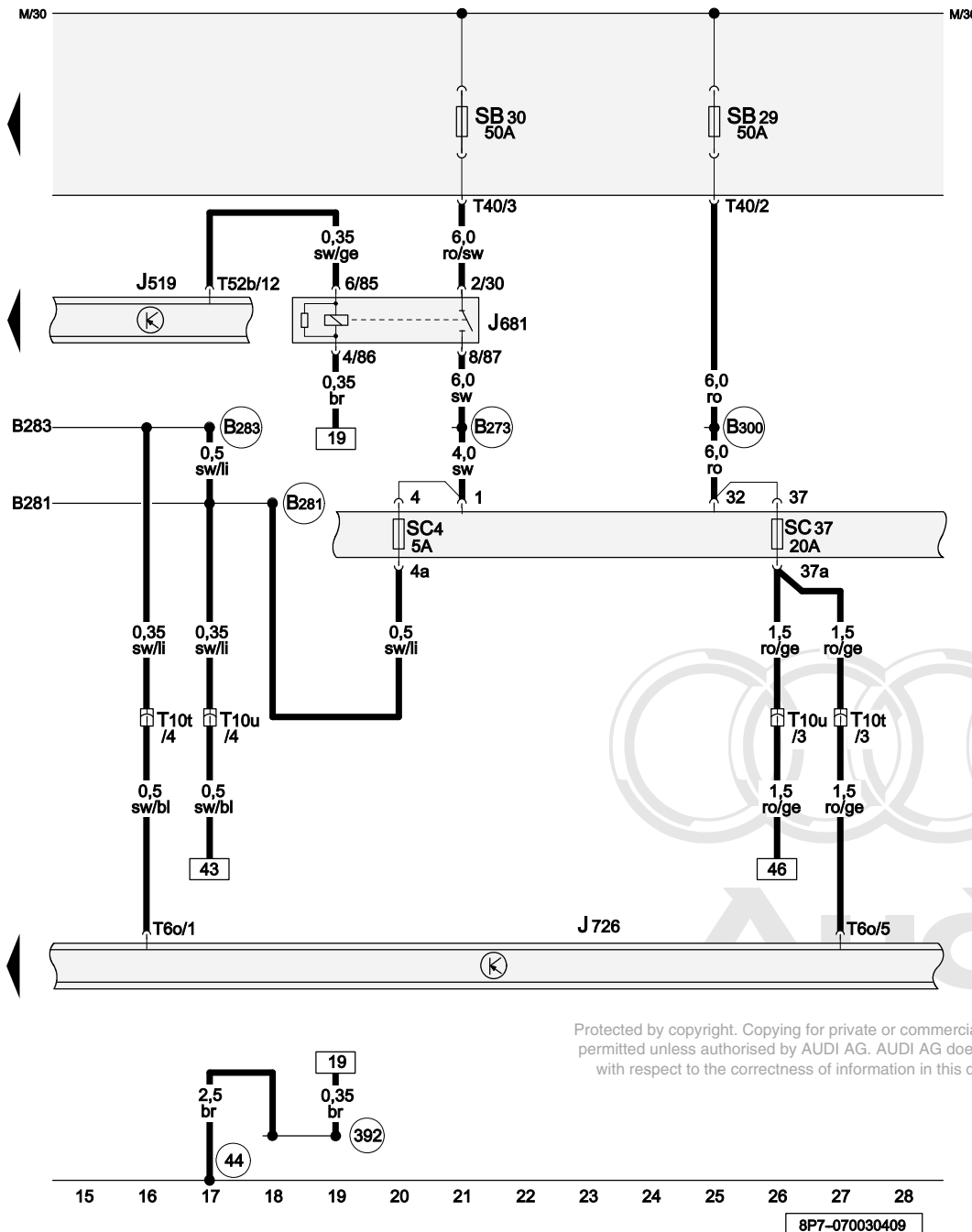
B431 Connection (seat heating), in main wiring harness

O12 Connection 1, in seat heating wiring harness

O13 Connection 2, in seat heating wiring harness

* for manual regulation with heater only
** for air conditioner with manual regulation only

ws = white
sw = black
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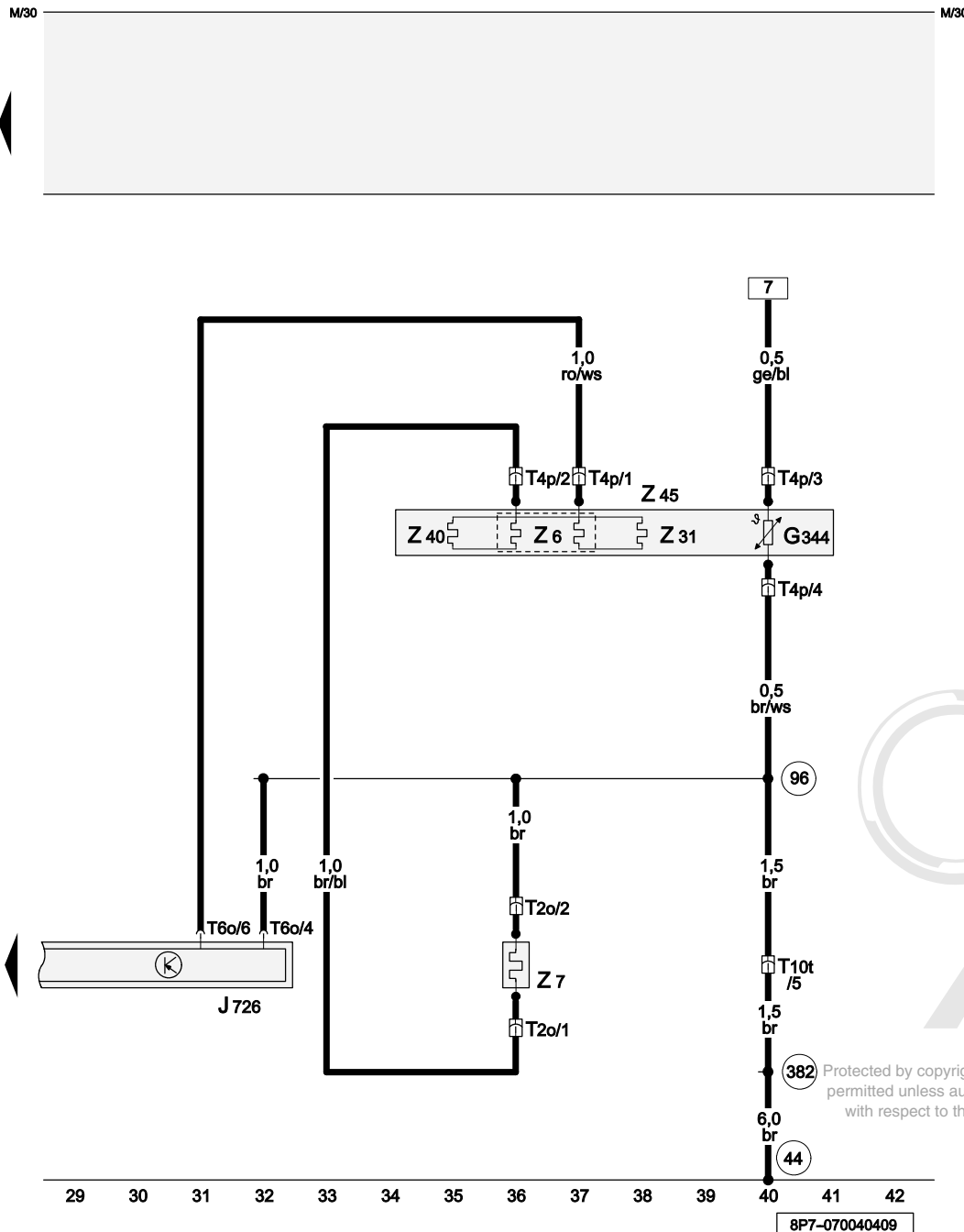
Driver seat heating control unit, terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J726 Driver seat heating control unit
- SB29 Fuse 29 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- SC37 Fuse 37 on fuse holder C
- T6o 6-pin connector, black, on driver seat heating control unit
- T10t 10-pin connector, black, under driver seat
- T10u 10-pin connector, black, under front passenger seat
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- B300 Positive connection 4 (30), in main wiring harness

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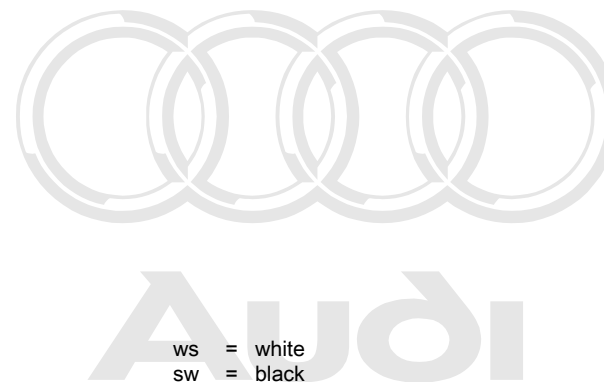
8P7-070030409



Driver seat heating control unit, heated seat cushion for front left seat

- G344 Front left seat temperature sender
- J726 Driver seat heating control unit
- T2o 2-pin connector, black, on driver seat for heated driver seat backrest
- T4p 4-pin connector, black, on heated driver seat
- T6o 6-pin connector, black, on driver seat heating control unit
- T10t 10-pin connector, black, under driver seat
- Z6 Heated driver seat cushion
- Z7 Heated driver seat backrest
- Z31 Driver seat cushion lateral support heater
- Z40 Driver seat lateral support heater 2
- Z45 Front left seat heating

- 44 Earth point, lower part of left A-pillar
- 96 Earth connection 1, in seat heating wiring harness
- 382 Earth connection 17, in main wiring harness



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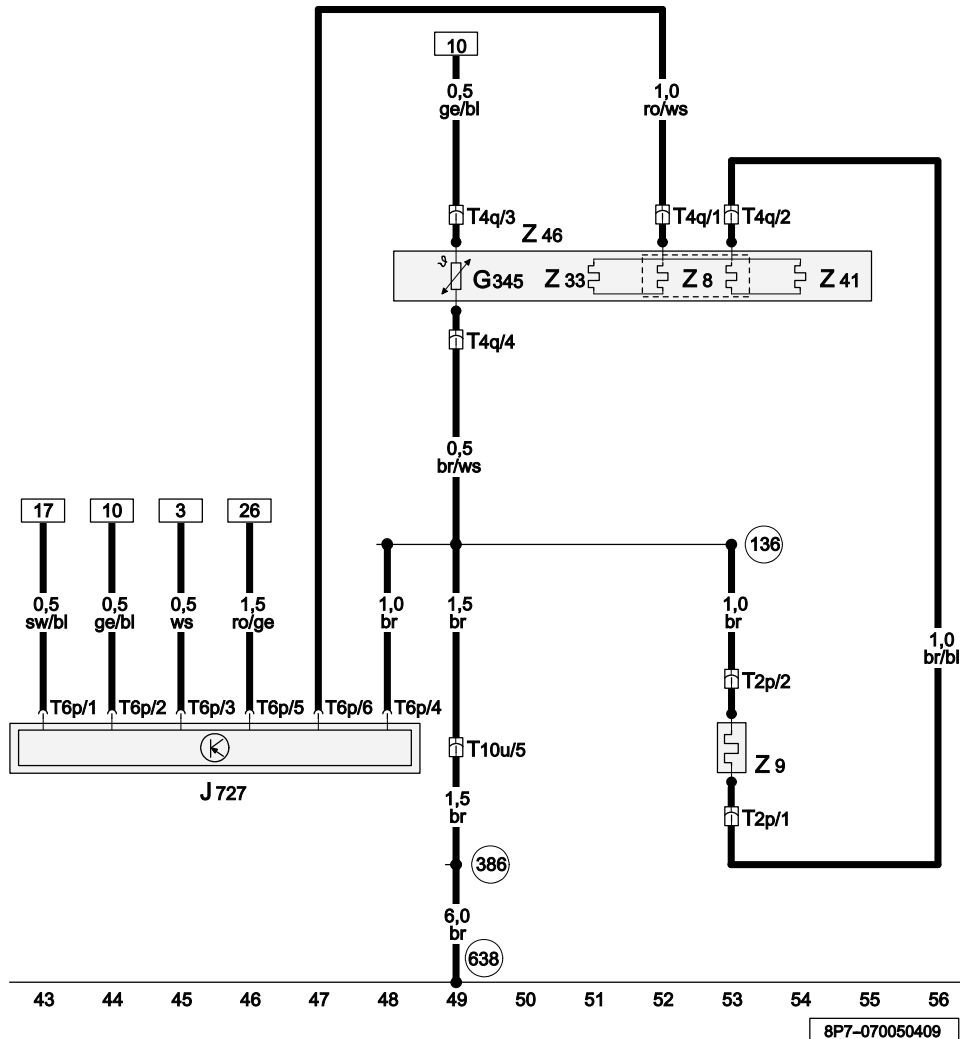
M/30

M/30

Front passenger seat heating control unit, heated seat cushion for front right seat

- G345 Front right seat temperature sender
- J727 Front passenger seat heating control unit
- T2p 2-pin connector, black, on front passenger seat for heated front passenger seat backrest
- T4q 4-pin connector, black, on heated front passenger seat
- T6p 6-pin connector, black, on front passenger seat heating control unit
- T10u 10-pin connector, black, under front passenger seat
- Z8 Heated front passenger seat cushion
- Z9 Heated front passenger seat backrest
- Z33 Front passenger seat lateral support heater
- Z41 Front passenger seat lateral support heater 2
- Z46 Front right seat heating

- 136 Earth connection 2, in seat heating wiring harness
- 386 Earth connection 21, in main wiring harness
- 638 Earth point, right A-pillar



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gn = green
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rs = pink

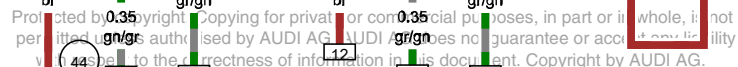
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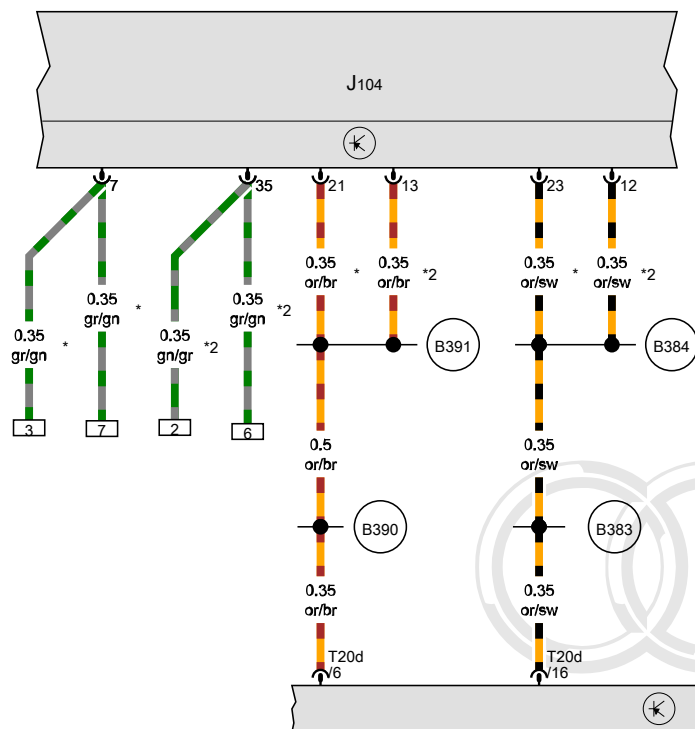
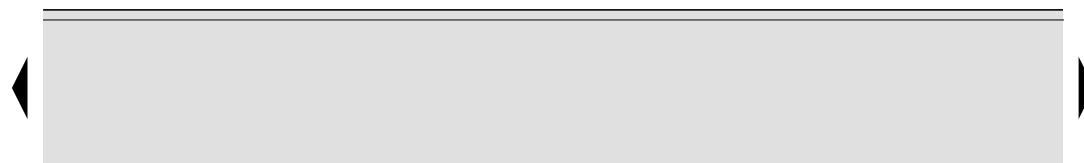
Tyre pressure monitor

From May 2009



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J104 ABS control unit
J533 Data bus diagnostic interface
T20d 20-pin connector

- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

* Only models with ABS and no ESP
*2 Only models with anti-lock brake system (ABS) and electronic stabilisation program (ESP)

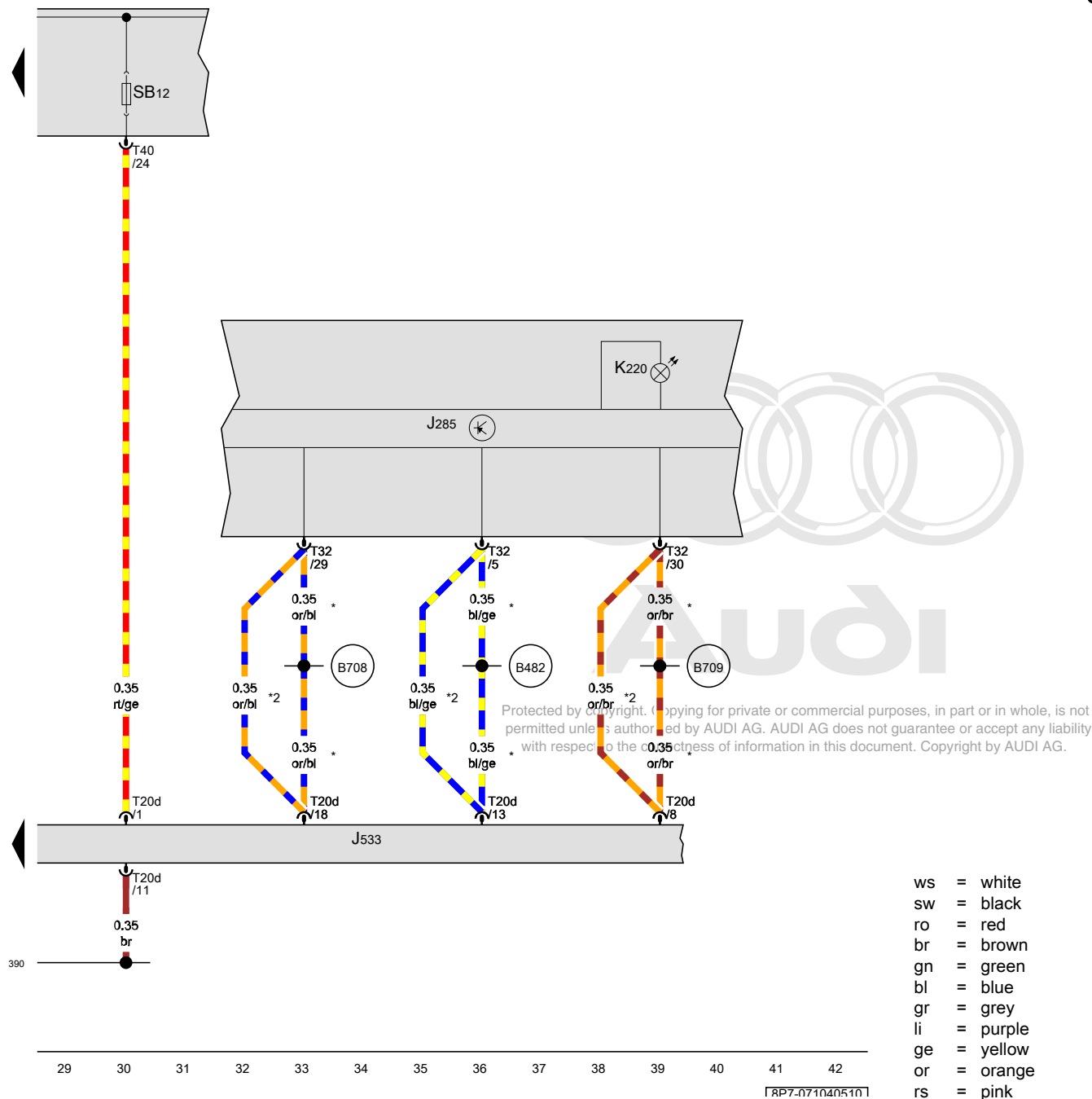
390 390

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15 16 17 18 19 20 21 22 23 24 25 26 27 28

18P7-0710305101

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or = orange
rs = pink



Control unit in dash panel insert

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K220 Tyre pressure monitor warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * Gradually discontinued
- *2 gradual introduction



Rear heated seat, with and without air conditioning system

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

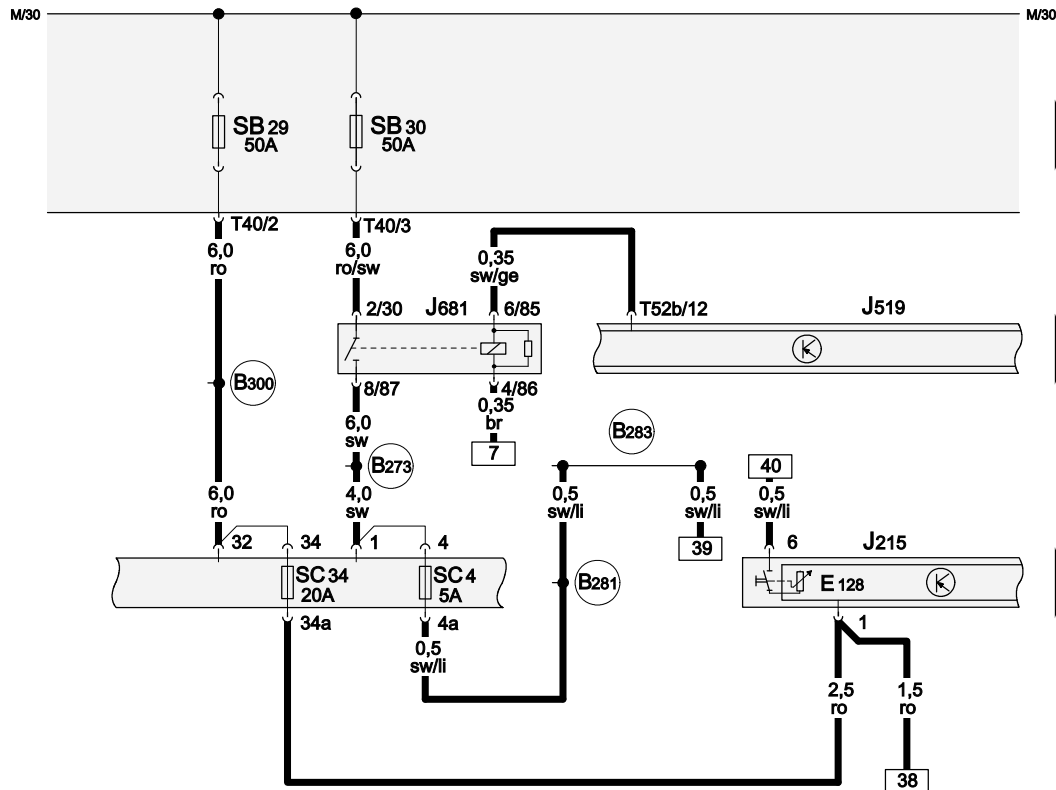
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding

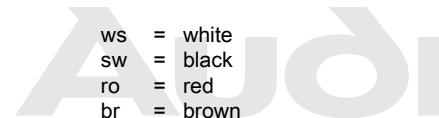
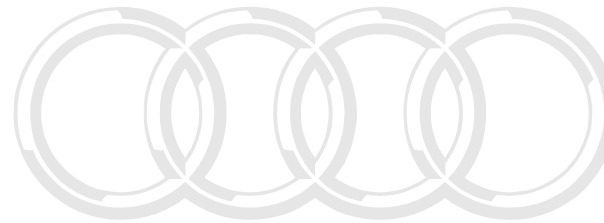


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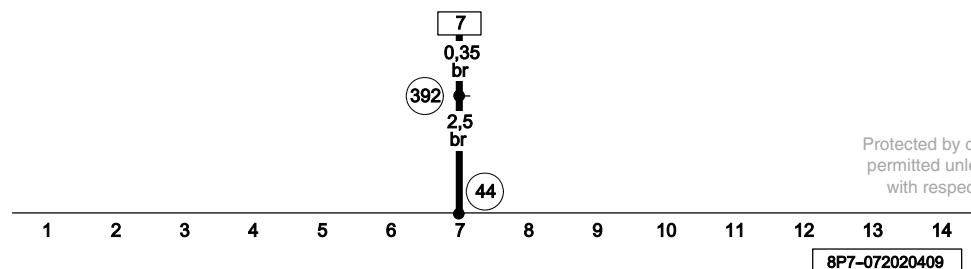
Heated rear left seat control unit, fuse on fuse holder

- E128 Heated rear left seat switch with regulator
- J215 Heated rear left seat control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB29 Fuse 29 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- SC34 Fuse 34 on fuse holder C
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- B283 Positive connection 7 (15a), in main wiring harness
- B300 Positive connection 4 (30), in main wiring harness

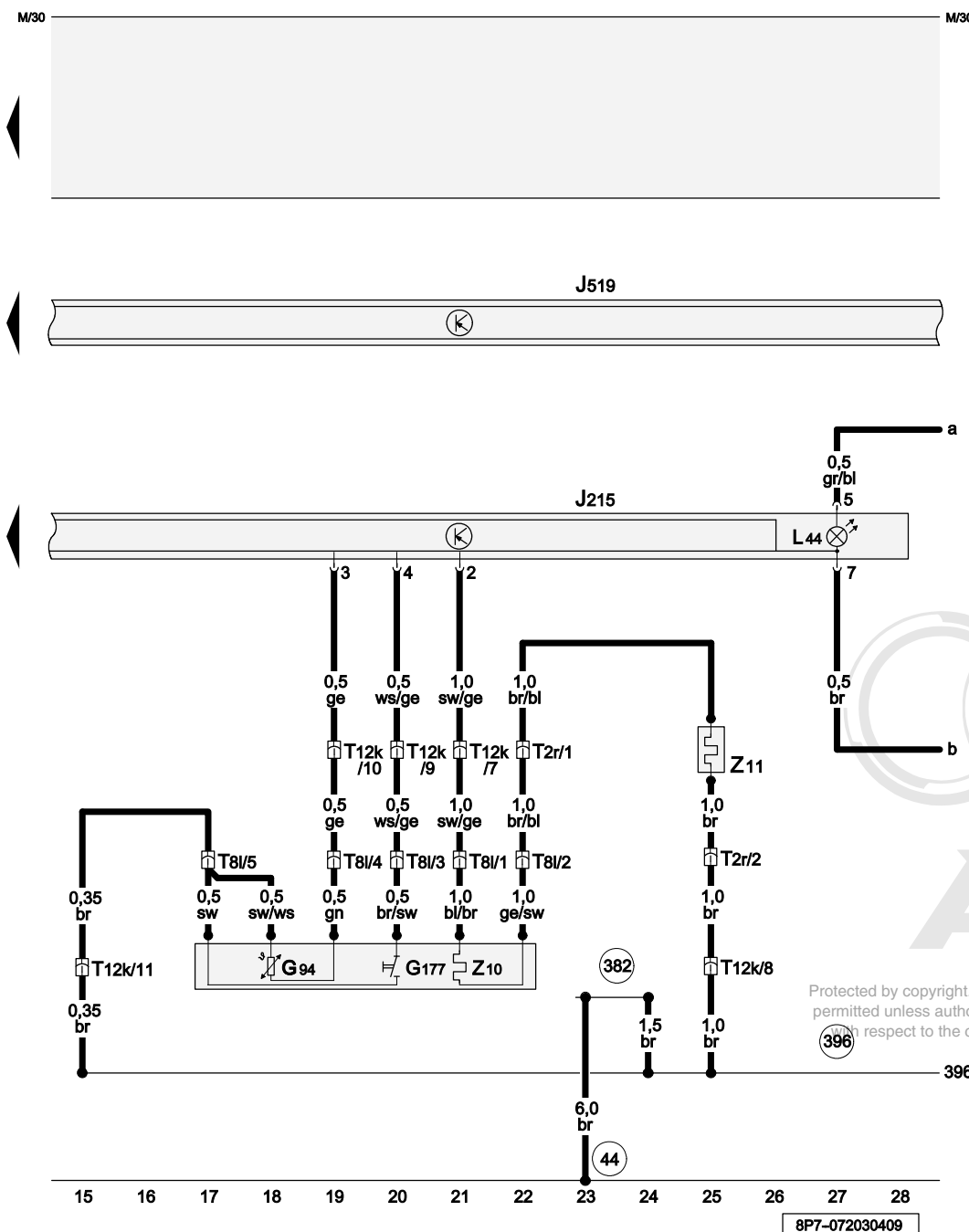


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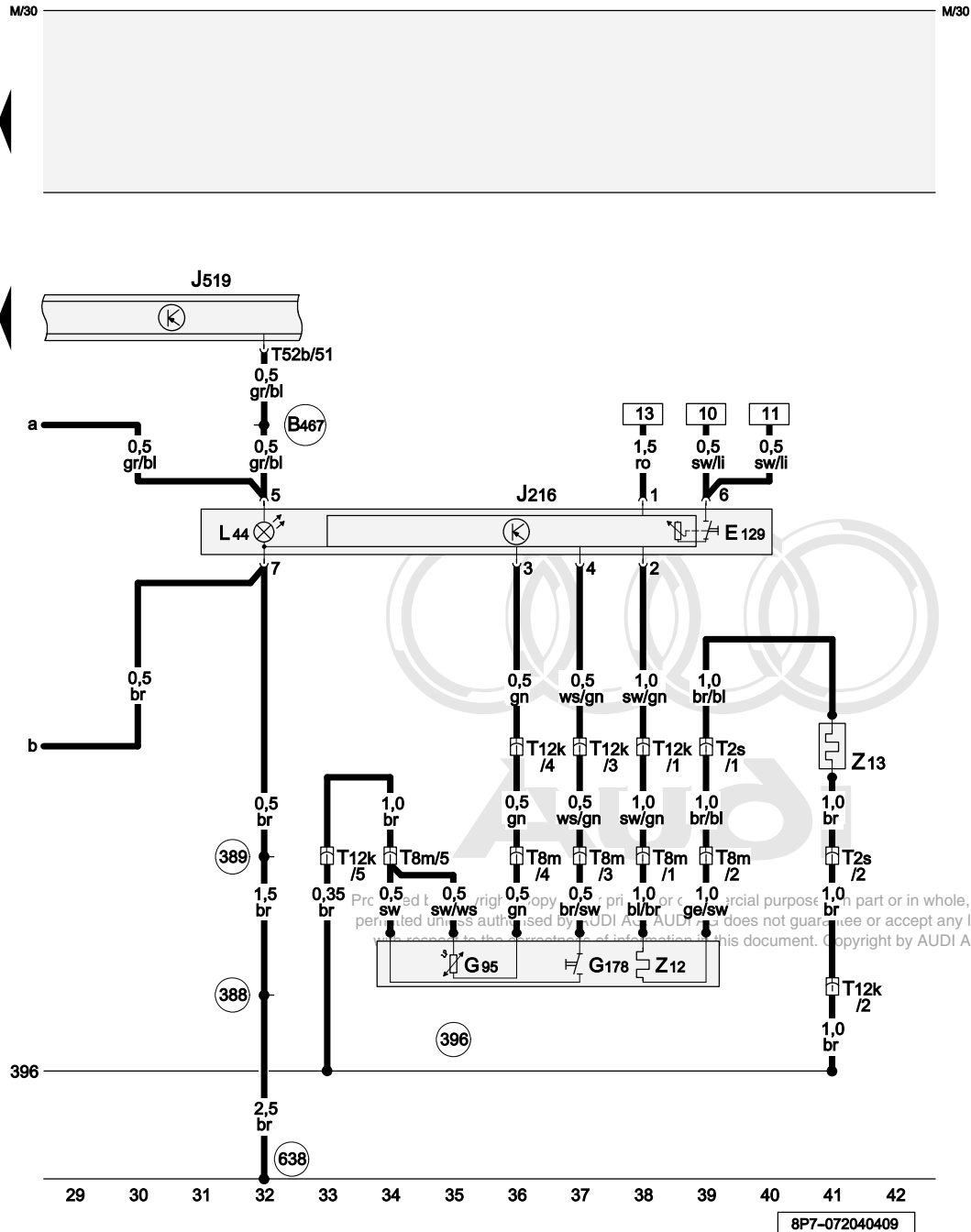
Heated rear left seat control unit, rear left seat temperature sensor, heated bench seat cushion for rear left seat, heated backrest for rear left seat

- | | |
|------|--|
| G94 | Rear left seat temperature sensor |
| G177 | Rear seat occupied sensor on driver side |
| J215 | Heated rear left seat control unit |
| J519 | Onboard supply control unit |
| L44 | Seat heating switch illumination bulb |
| T2r | 2-pin connector, black, under rear seat bench |
| T8l | 8-pin connector, black, on rear left seat |
| T12k | 12-pin connector, black, under rear seat bench |
| Z10 | Heated rear left seat |
| Z11 | Heated rear left seat backrest |

- 44 Earth point, lower part of left A-pillar
- 382 Earth connection 17, in main wiring harness
- 396 Earth connection 31, in main wiring harness

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bl	=	blue
gr	=	grey
li	=	purple
ge	=	yellow
or	=	orange
rs	=	pink



Heated rear right seat control unit, rear right seat temperature sensor, heated bench seat cushion for rear right seat, heated backrest for rear right seat

- E129 Heated rear right seat switch with regulator
- G95 Rear right seat temperature sensor
- G178 Rear seat occupied sensor on front passenger side
- J216 Heated rear right seat control unit
- J519 Onboard supply control unit
- L44 Seat heating switch illumination bulb
- T2s 2-pin connector, black, under rear seat bench
- T8m 8-pin connector, black, on rear right seat
- T12k 12-pin connector, black, under rear seat bench
- T52b 52-pin connector, white (connector B)
- Z12 Heated rear right seat
- Z13 Heated rear right seat backrest

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 396 Earth connection 31, in main wiring harness
- 638 Earth point, right A-pillar
- B467 Connection 3 in main wiring harness

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Trailer operation

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

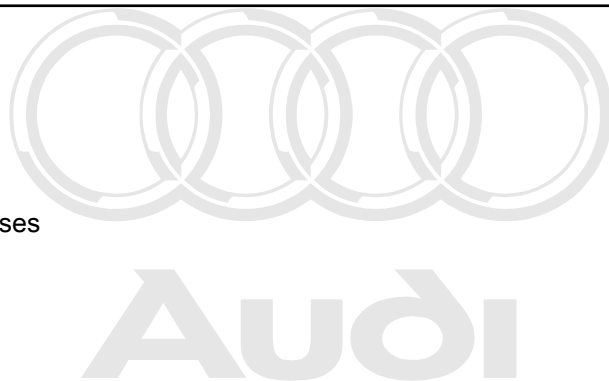
- ◆ Earth connections

⇒ List of Fitting Locations!

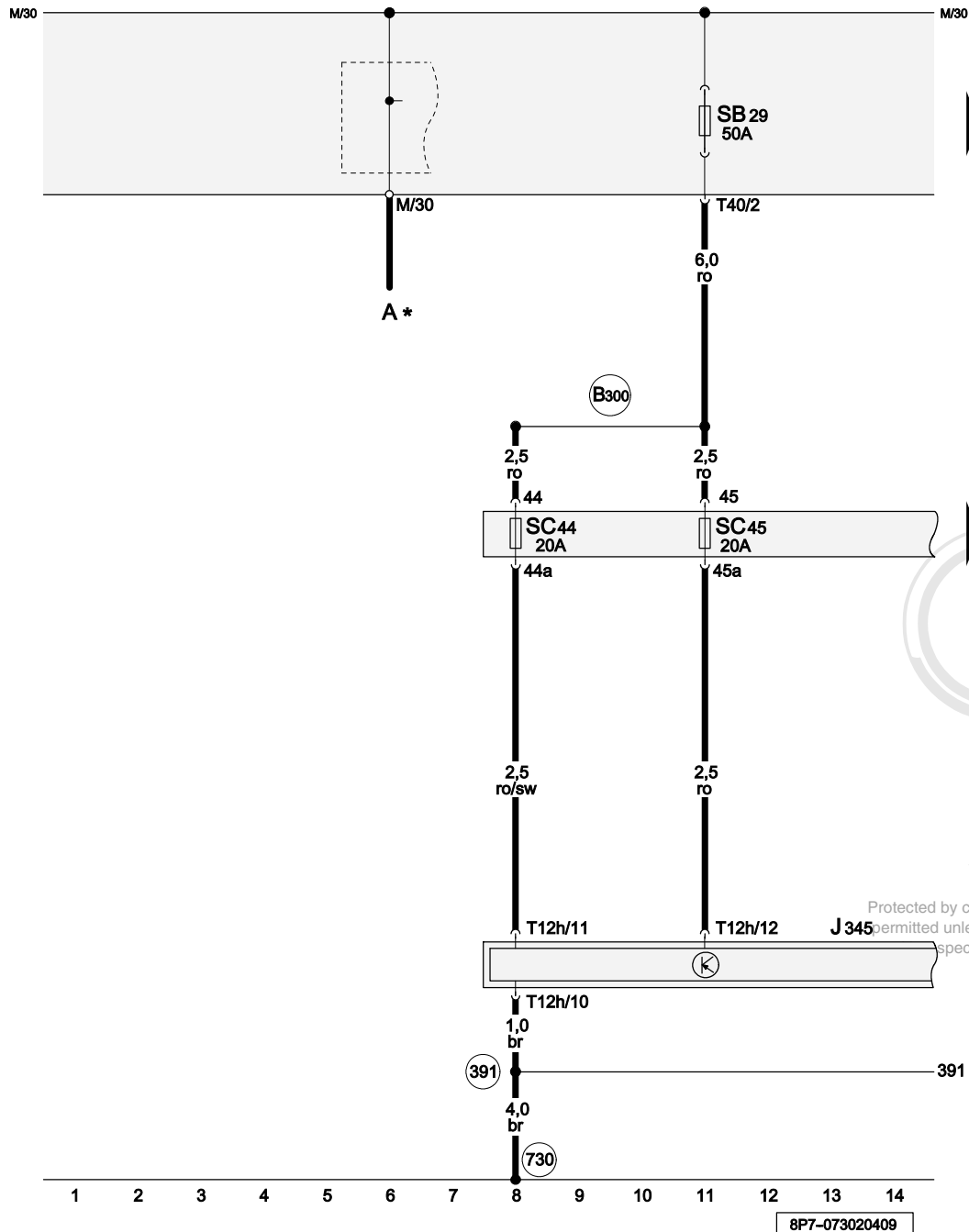
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Fuses, trailer detector control unit

- A Battery
- J345 Trailer detector control unit
- SB29 Fuse 29 on fuse holder B
- SC44 Fuse 44 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- T12h 12-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

391 Earth connection 26, in main wiring harness

730 Earth point 1, on rear right wheel housing

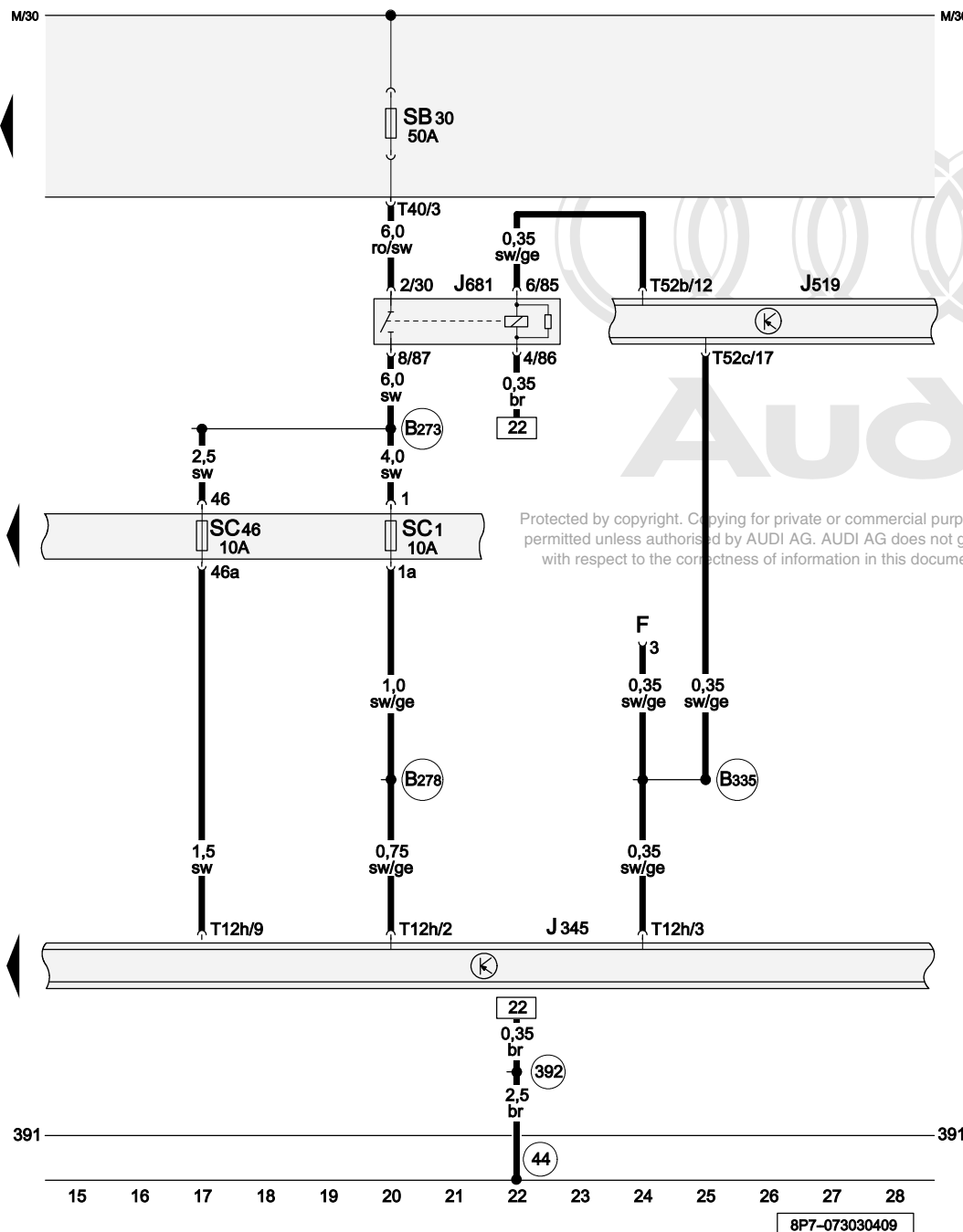
B300 Positive connection 4 (30), in main wiring harness

* => applicable Current Flow Diagram with battery in engine compartment

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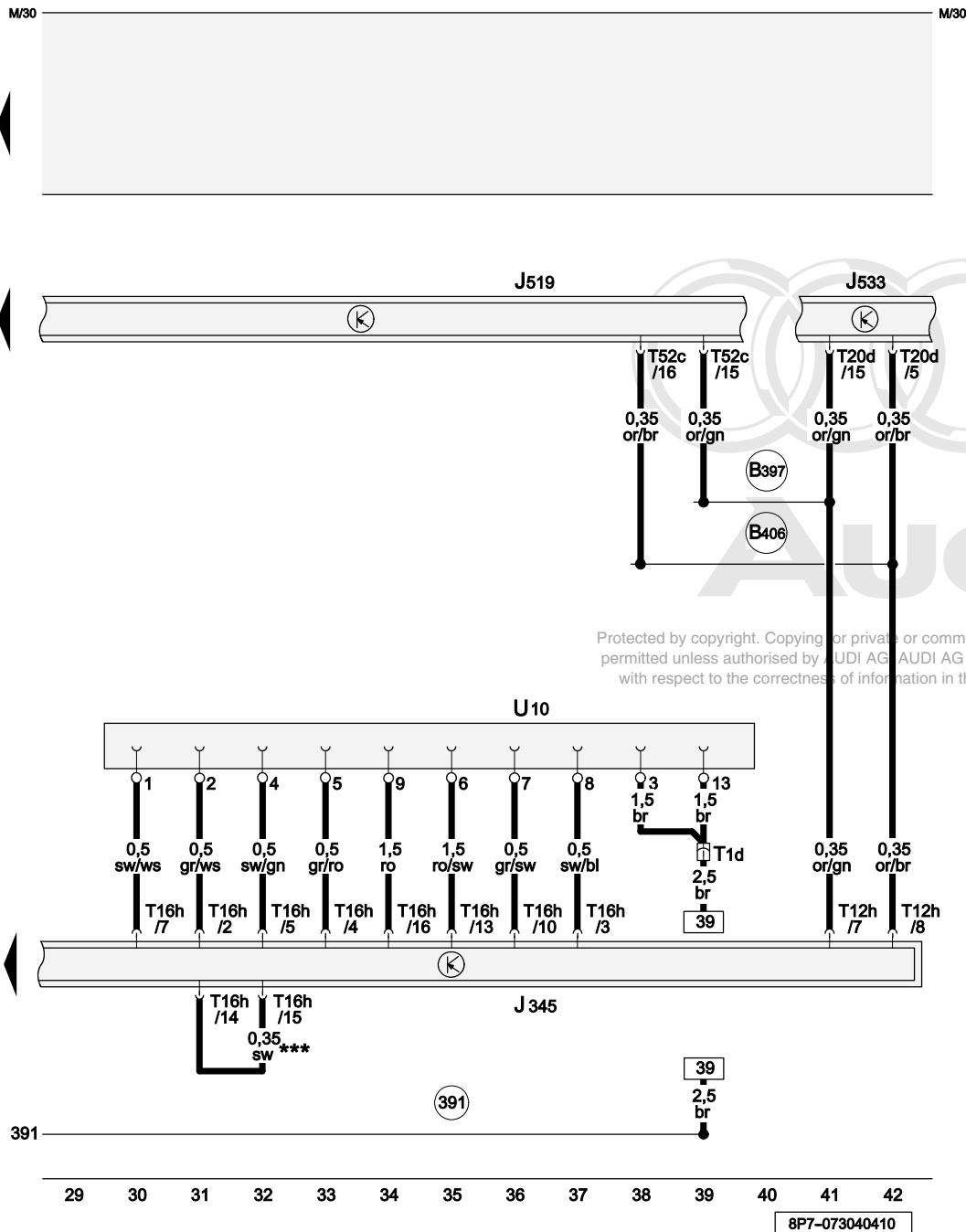
8P7-073020409



Fuses, trailer detector control unit

- F Brake light switch
- J345 Trailer detector control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC46 Fuse 46 on fuse holder C
- T12h 12-pin connector, red (connector B)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B335 Connection 1 (54), in main wiring harness

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Trailer detector control unit, trailer socket

- J345 Trailer detector control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- T1d Single connector, black, near trailer socket
- T12h 12-pin connector, red (connector B)
- T16h 16-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)
- T52c 52-pin connector, brown (connector C)
- U10 Trailer socket

- 391 Earth connection 26, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- *** Phased-in

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Airbag systems

From May 2009



Audi

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Front passenger side airbag deactivated warning lamp,
Fuse holder C

J234 Airbag control unit
K145 Front passenger side airbag deactivated warning lamp
SC Fuse holder C
SC3 Fuse 3 on fuse holder C
T10ab 10-pin connector
T75 75-pin connector

374 Earth connection 9, in main wiring harness

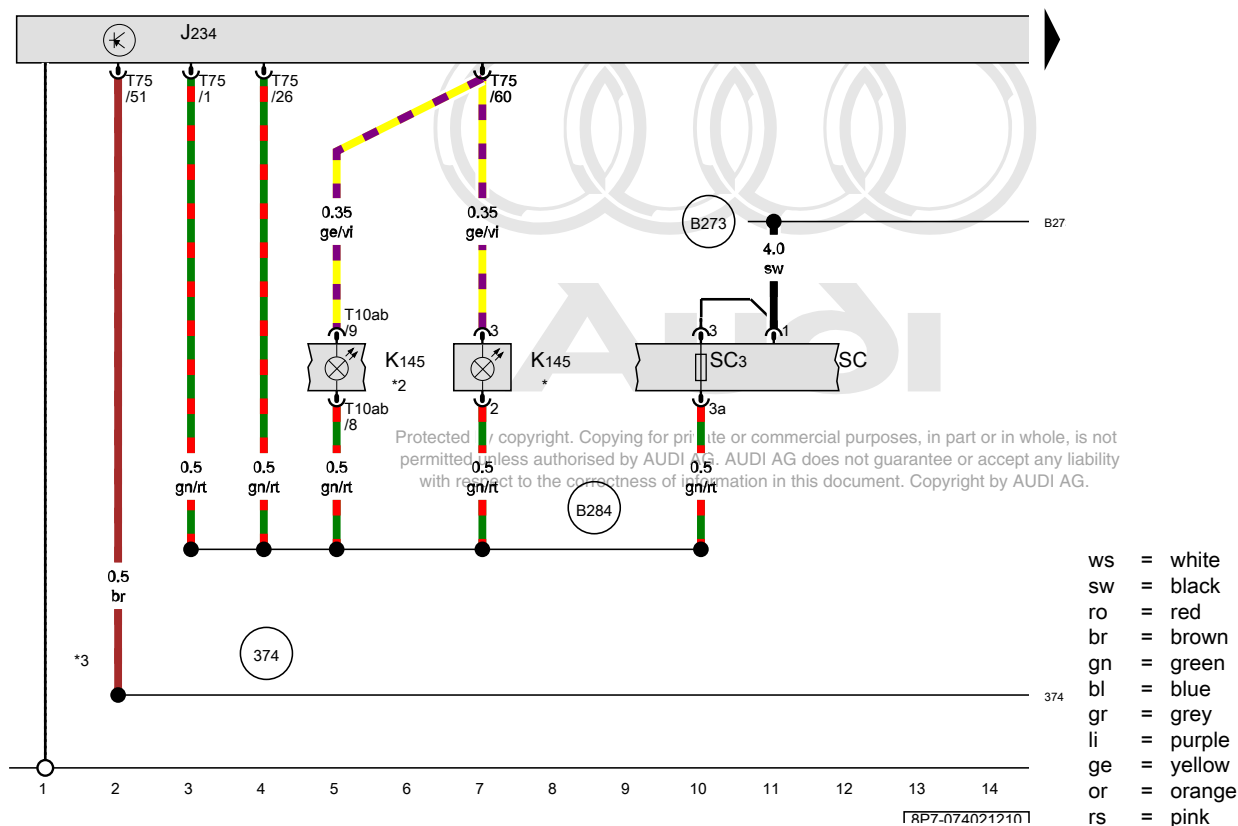
B273 Positive connection (15), in main wiring harness

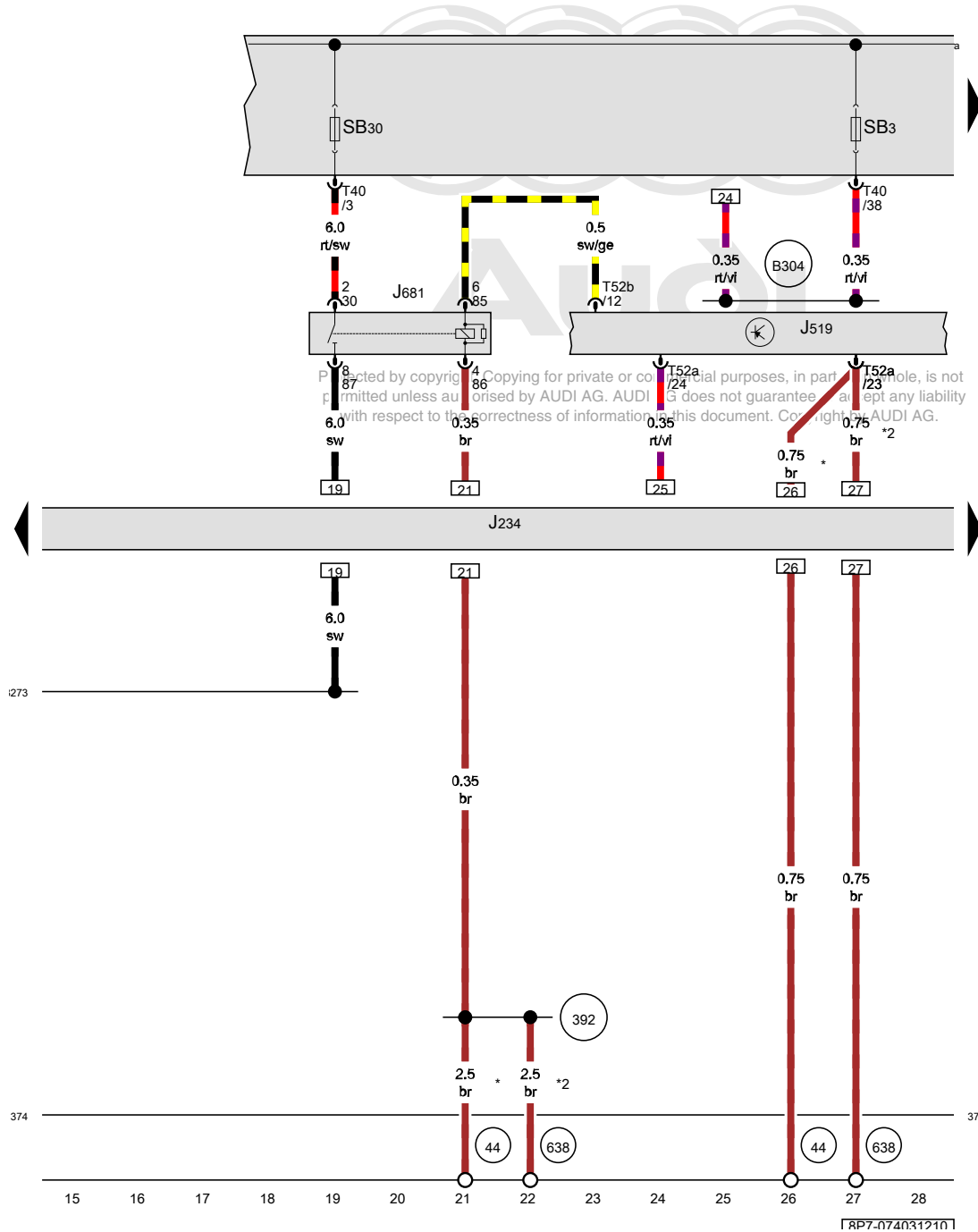
B284 Positive connection 8 (15a) in main wiring harness

* Gradually discontinued

*2 gradual introduction

*3 Earth supply via housing from airbag control unit





Onboard supply control unit, Terminal 15 voltage supply relay 2

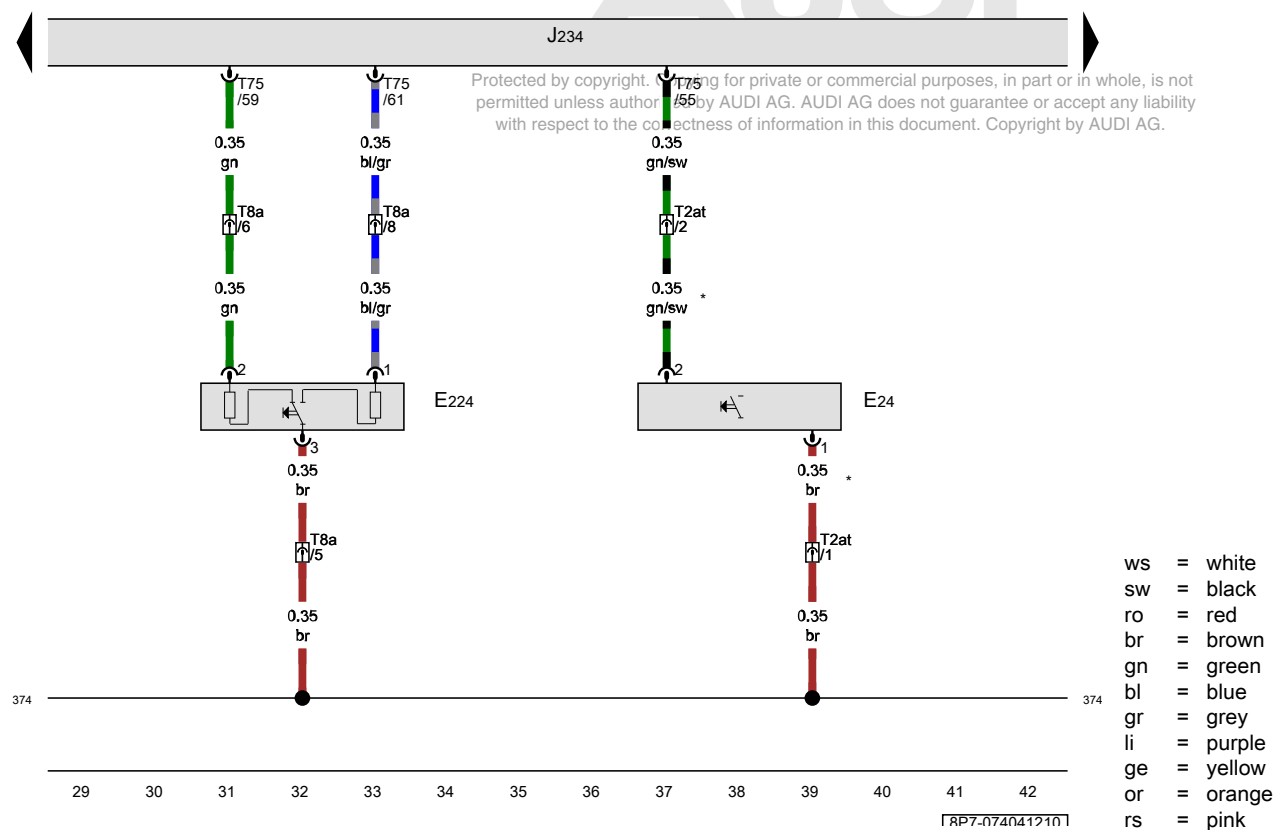
- J234 Airbag control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB3 Fuse 3 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- 44 Earth point, lower part of left A-pillar
- 374 Earth connection 9, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B304 Positive connection 8 (30), in main wiring harness
- * Only left-hand drive models
- *2 Only right-hand drive models

Driver side belt switch, Key operated switch to deactivate front passenger side airbag

- | | |
|------|---|
| E24 | Driver side belt switch |
| E224 | Key operated switch to deactivate front passenger side airbag |
| J234 | Airbag control unit |
| T2at | 2-pin connector, under driver seat |
| T8a | 8-pin connector, near glove compartment |
| T75 | 75-pin connector |

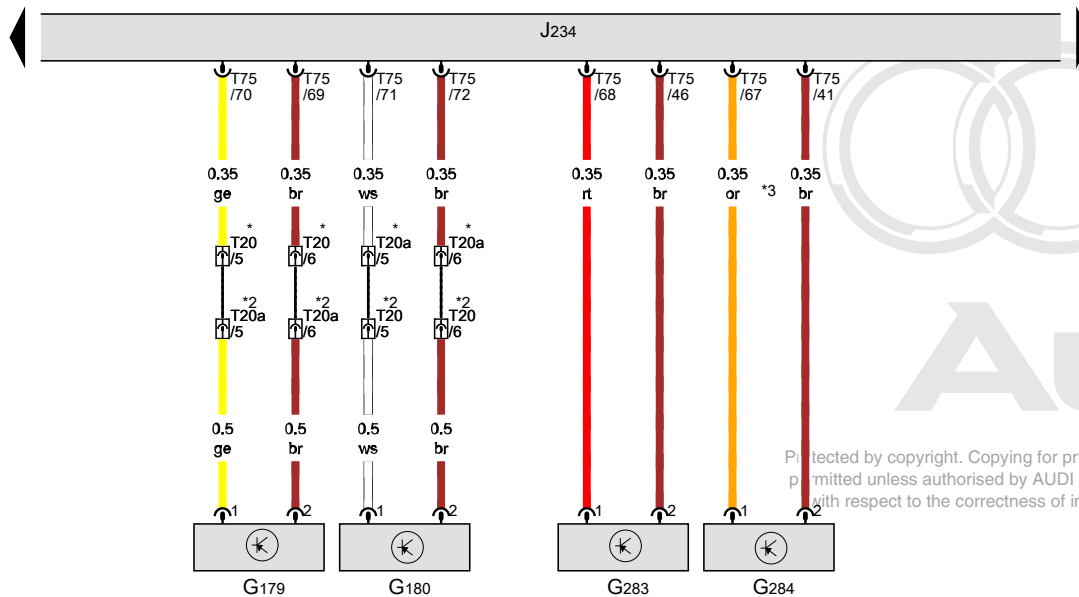
- (374) Earth connection 9, in main wiring harness

* Wiring colour depends on equipment



Side airbag crash sensor on driver side, Side airbag crash sensor on front passenger side, Front airbag crash sensor for driver side, Front airbag crash sensor for front passenger side

- G179 Side airbag crash sensor on driver side
- G180 Side airbag crash sensor on front passenger side
- G283 Front airbag crash sensor for driver side
- G284 Front airbag crash sensor for front passenger side
- J234 Airbag control unit
- T20 20-pin connector, on lower section of left A-pillar
- T20a 20-pin connector, on lower section of right A-pillar
- T75 75-pin connector
- 374 Earth connection 9, in main wiring harness
- * Only left-hand drive models
- *2 Only right-hand drive models
- *3 Wiring colour depends on equipment



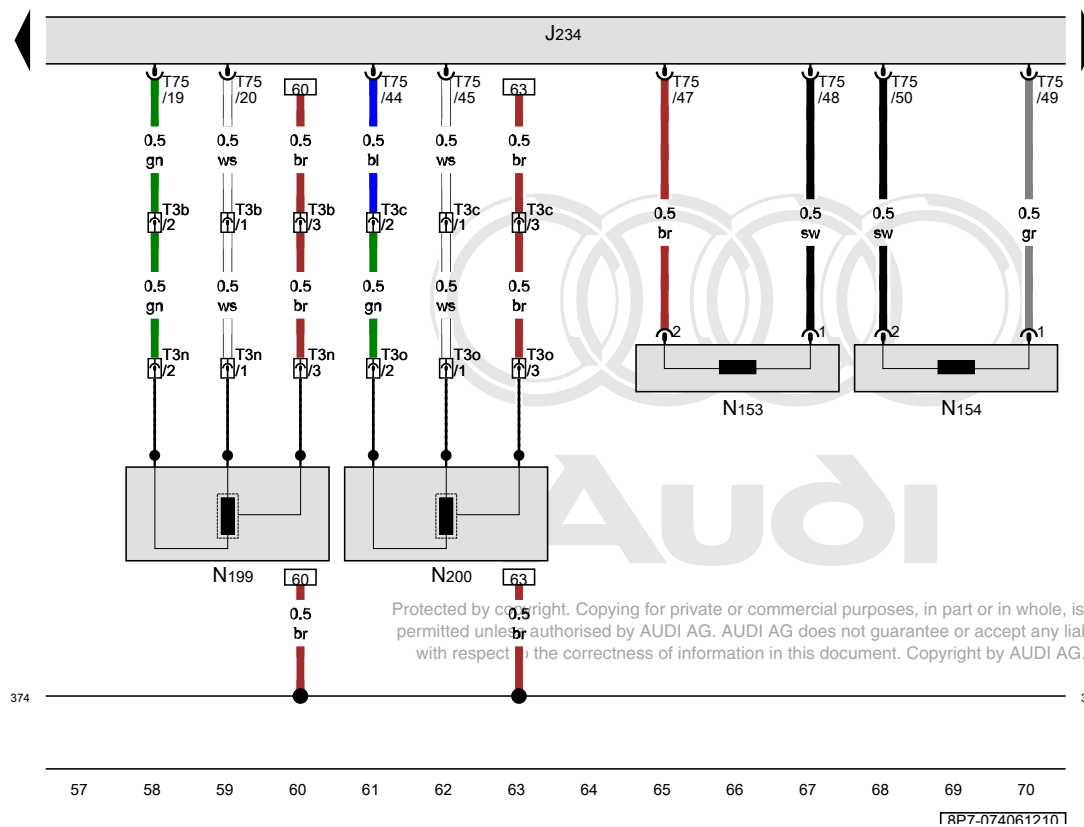
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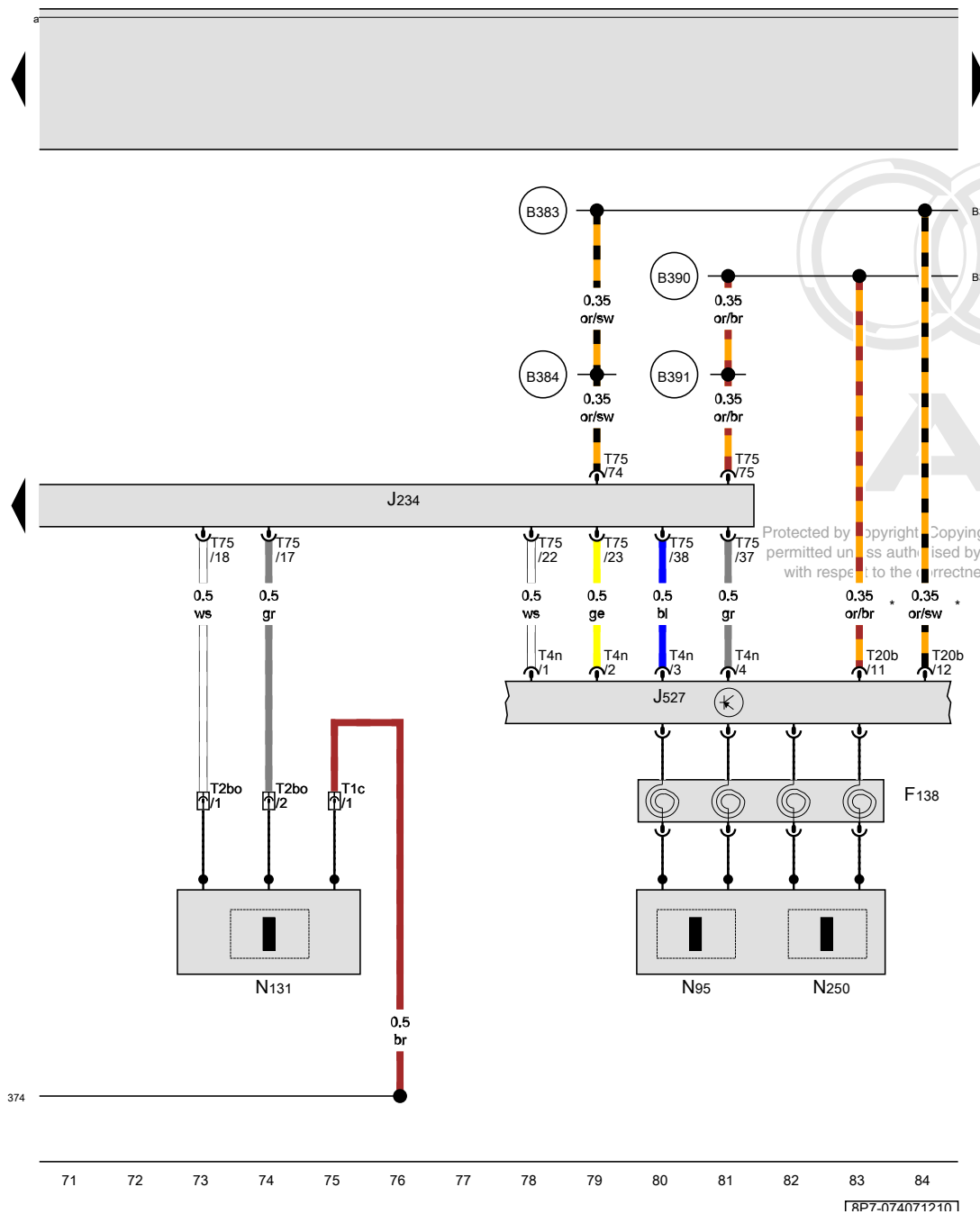
Driver seat belt tensioner igniter 1, Front passenger seat belt tensioner igniter 1, Side airbag igniter on driver side, Side airbag igniter on front passenger side

- J234 Airbag control unit
- N153 Driver seat belt tensioner igniter 1
- N154 Front passenger seat belt tensioner igniter 1
- N199 Side airbag igniter on driver side
- N200 Side airbag igniter on front passenger side
- T3b 3-pin connector, near driver seat
- T3c 3-pin connector, near front passenger seat
- T3n 3-pin connector
- T3o 3-pin connector
- T75 75-pin connector

374 Earth connection 9, in main wiring harness



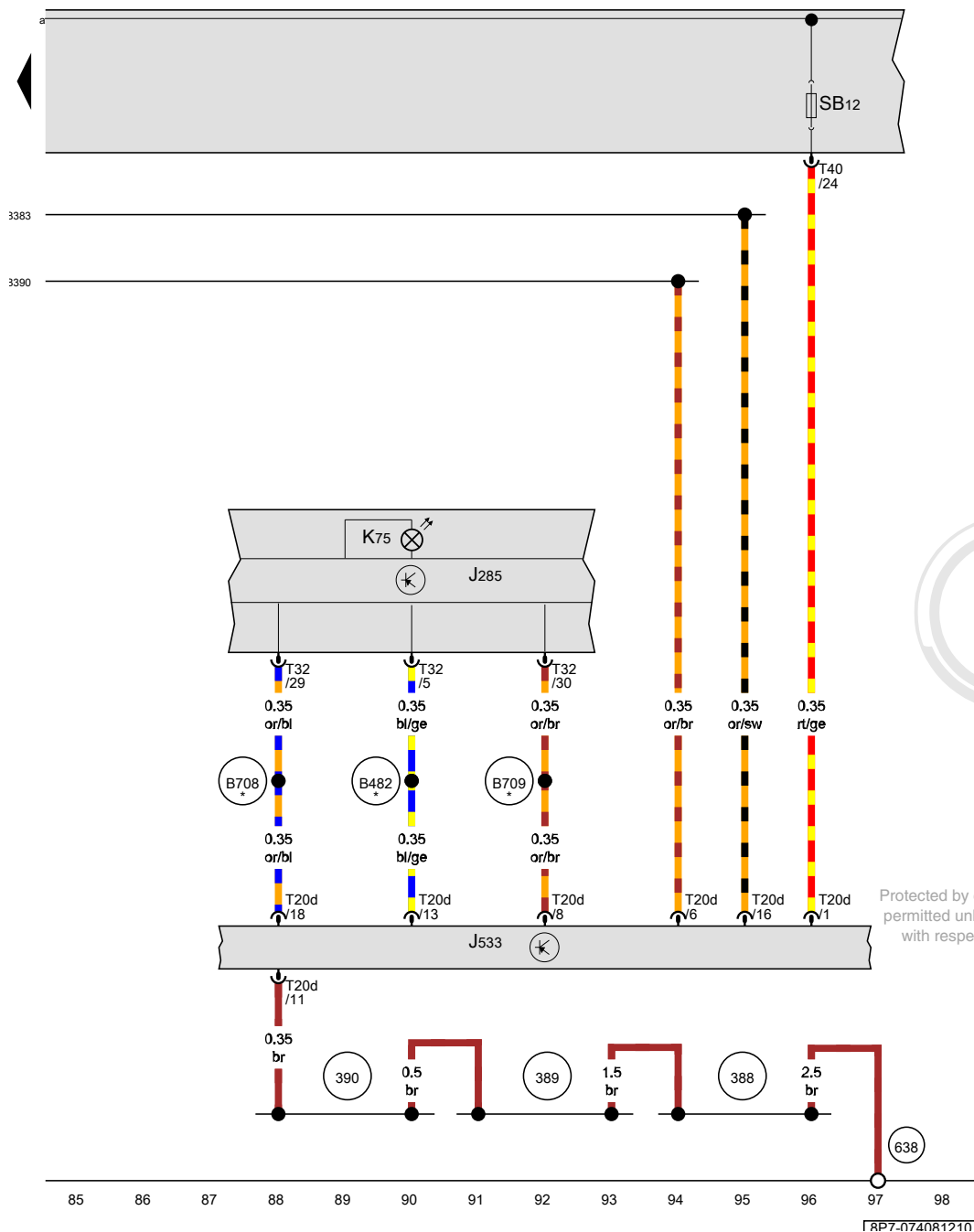
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Steering column electronics control unit, Driver side airbag igniter, Front passenger side airbag igniter 1, Driver side airbag igniter 2

- F138 Airbag coil connector and return ring with slip ring
- J234 Airbag control unit
- J527 Steering column electronics control unit
- N95 Driver side airbag igniter
- N131 Front passenger side airbag igniter 1
- N250 Driver side airbag igniter 2
- T1c Single connector
- T2bo 2-pin connector
- T4n 4-pin connector
- T20b 20-pin connector
- T75 75-pin connector

- 374 Earth connection 9, in main wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- * If fitted



Control unit in dash panel insert, Data bus diagnostic interface, Airbag warning lamp

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K75 Airbag warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, on right A-pillar
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * Gradually discontinued

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Diagnostic connector

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

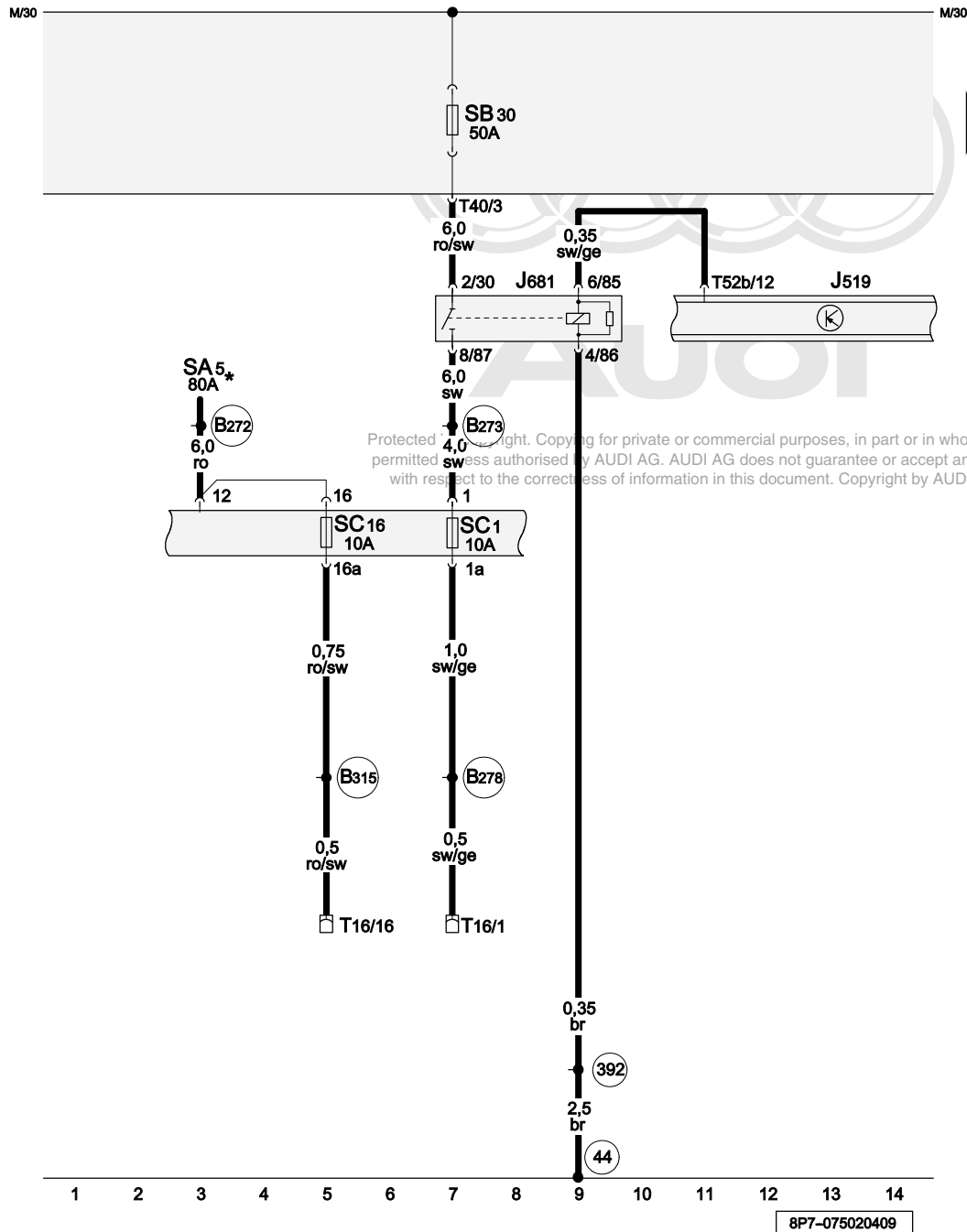
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Diagnostic connector, terminal 15 voltage supply relay 2, fuses

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SA5 Fuse 5 on fuse holder A
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B272 Positive connection (30), in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B315 Positive connection 1 (30a), in main wiring harness

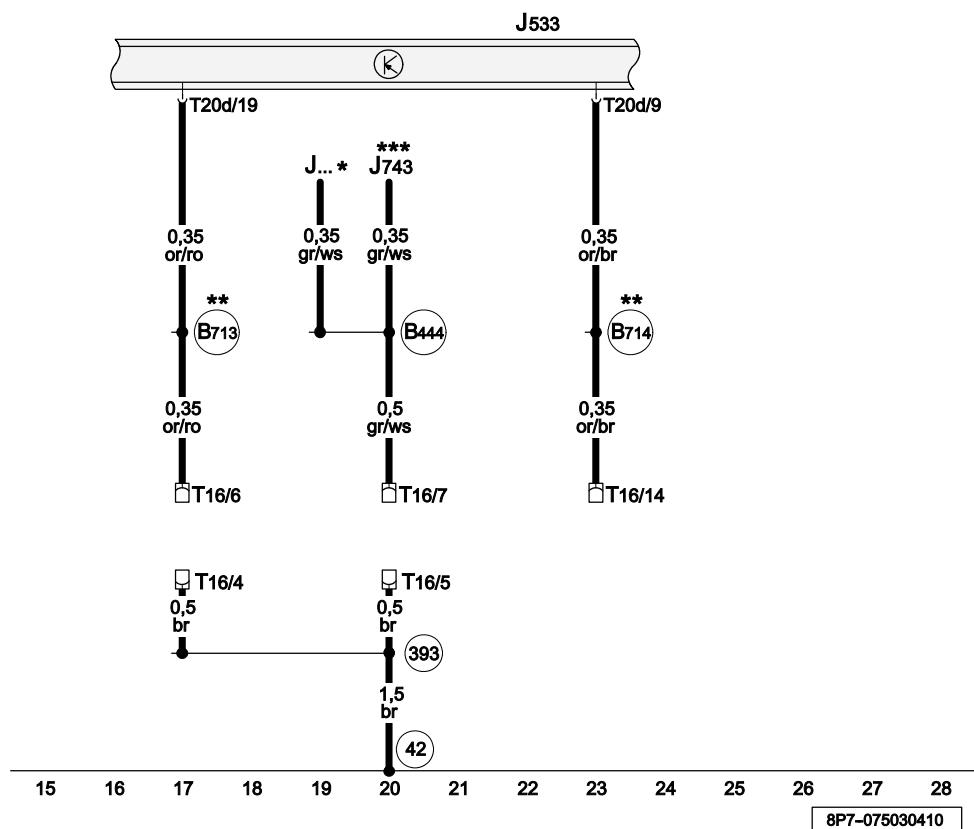
* ⇒ applicable Current Flow Diagram with battery in engine compartment

M/30 M/30

Data bus diagnostic interface, diagnostic connector

- J... Engine control units
- J533 Data bus diagnostic interface
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)
- 42 Earth point, next to steering column
- 393 Earth connection 28, in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness
- B713 Connection 1 (diagnostic CAN bus, high), in main wiring harness
- B714 Connection 1 (diagnostic CAN bus, low), in main wiring harness

- * → applicable engine Current Flow Diagram
- ** No longer fitted, phased-in modification
- *** → applicable Current Flow Diagram: automatic gearbox



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Direct shift gearbox (02E)

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

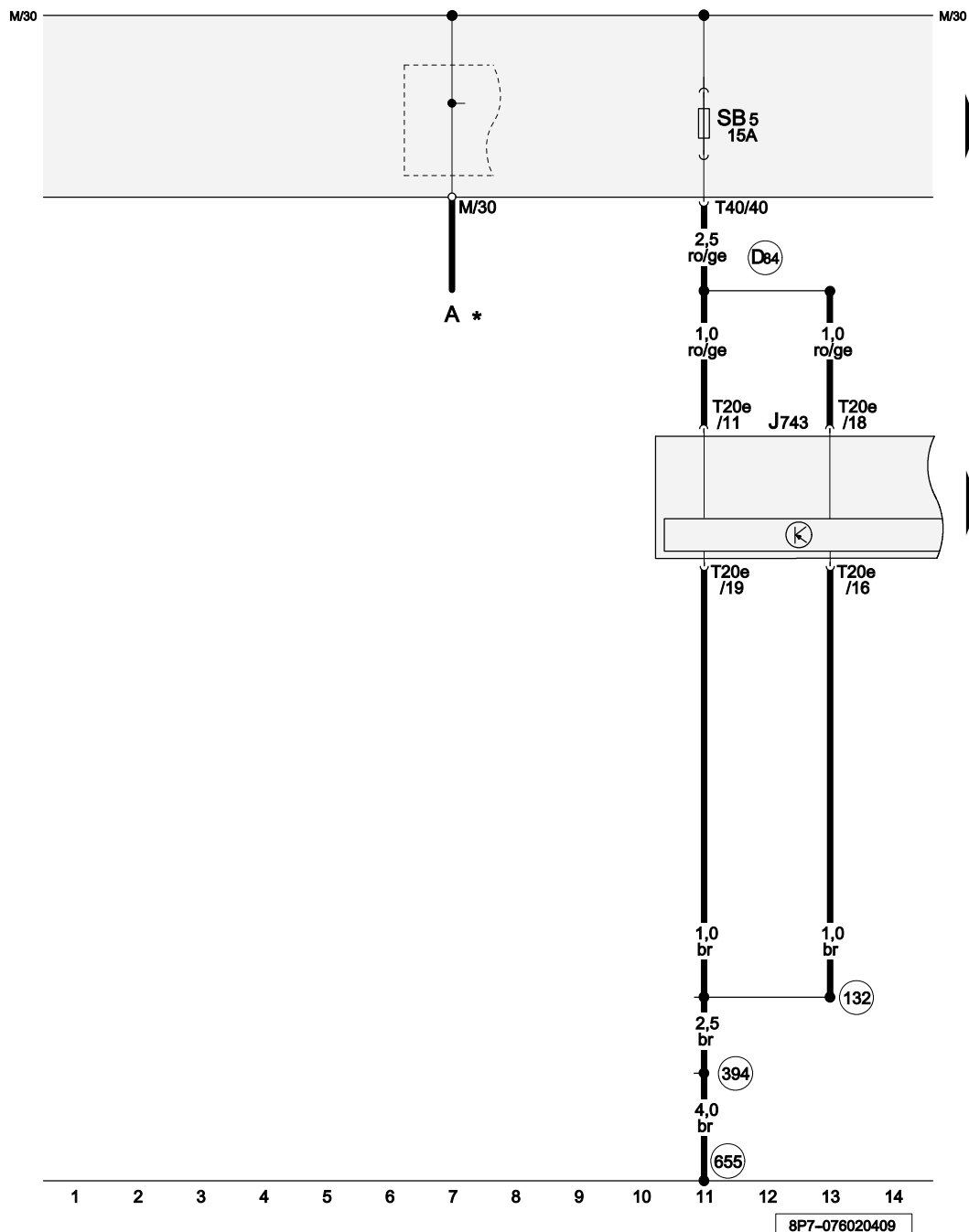
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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Electronics box supply, fuse on fuse holder

- A Battery
- J743 Mechatronic unit for dual clutch gearbox
- SB5 Fuse 5 on fuse holder B
- T20e 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

132 Earth connection 3, in engine compartment wiring harness

394 Earth connection 29, in main wiring harness

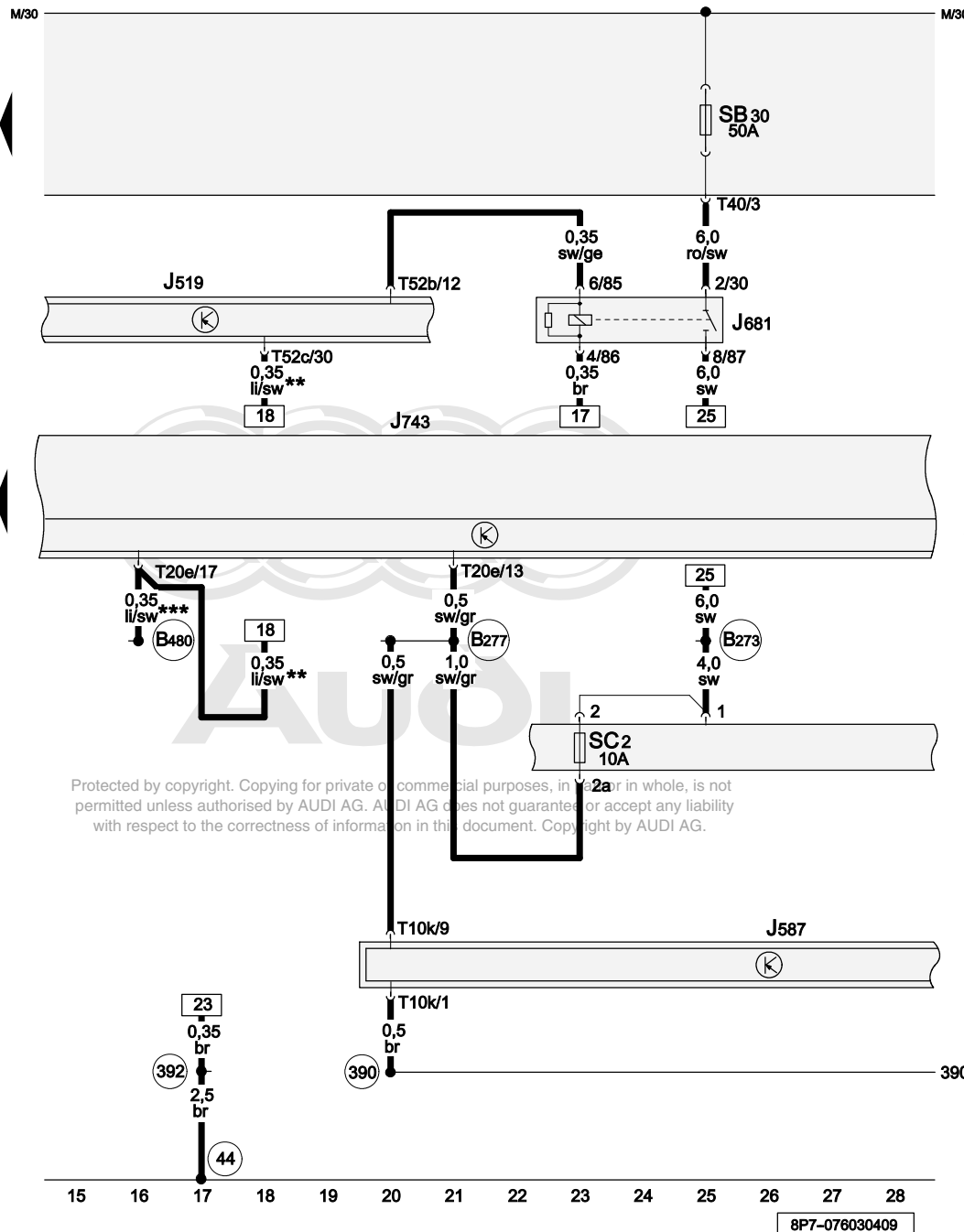
655 Earth point, on left headlight

D84 Connection (automatic gearbox), in engine compartment wiring harness

* ⇒ applicable Current Flow Diagram with battery in engine compartment

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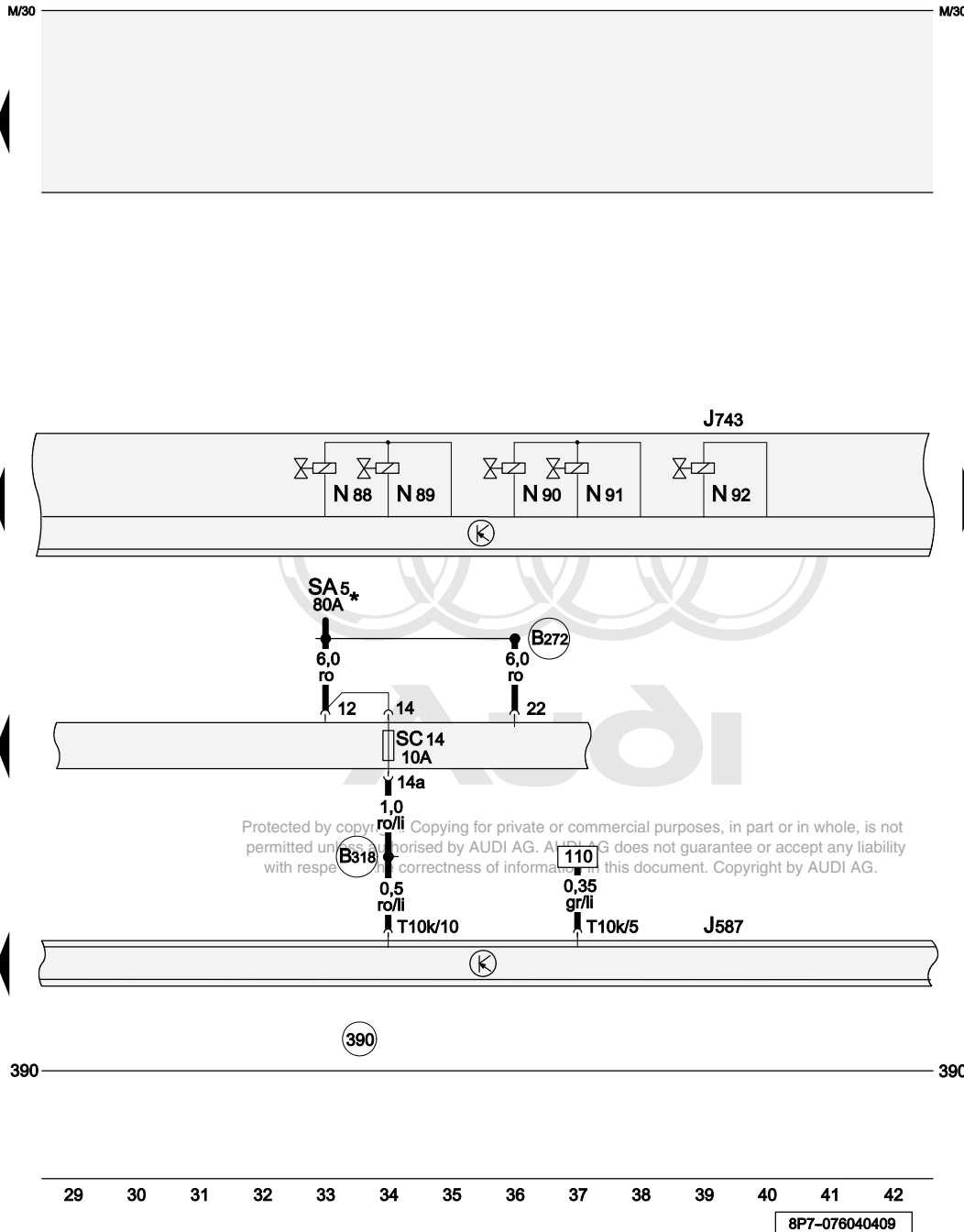
Voltage supply, terminal 15, selector lever sensors control unit, mechatronic unit for dual clutch gearbox

- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J681 Terminal 15 voltage supply relay 2
- J743 Mechatronic unit for dual clutch gearbox
- SB30 Fuse 30 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- T10k 10-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)

- 44 Earth point, lower part of left A-pillar
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B480 Connection 16, in main wiring harness

- ** only models without stop/start system
- *** only models with stop/start system ⇒ applicable engine Current Flow Diagram
- # for models with electronics box low only
- ## for models with electronics box high only

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Solenoid valves, voltage supply, terminal 30, selector lever sensors control unit

- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- N88 Solenoid valve 1
- N89 Solenoid valve 2
- N90 Solenoid valve 3
- N91 Solenoid valve 4
- N92 Solenoid valve 5
- SA5 Fuse 5 on fuse holder A
- SC14 Fuse 14 on fuse holder C
- T10k 10-pin connector, black (connector A)

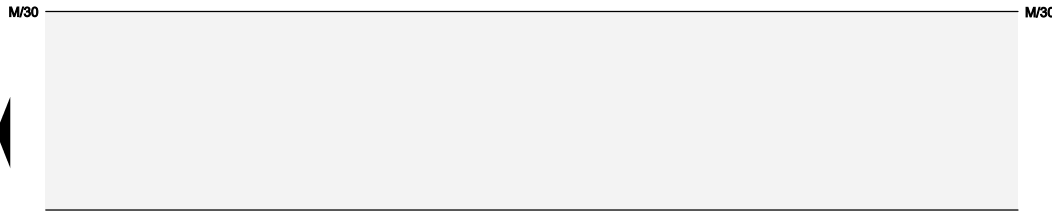
390 Earth connection 25, in main wiring harness

B272 Positive connection (30), in main wiring harness

B318 Positive connection 4 (30a), in main wiring harness

* => applicable Current Flow Diagram with battery in engine compartment

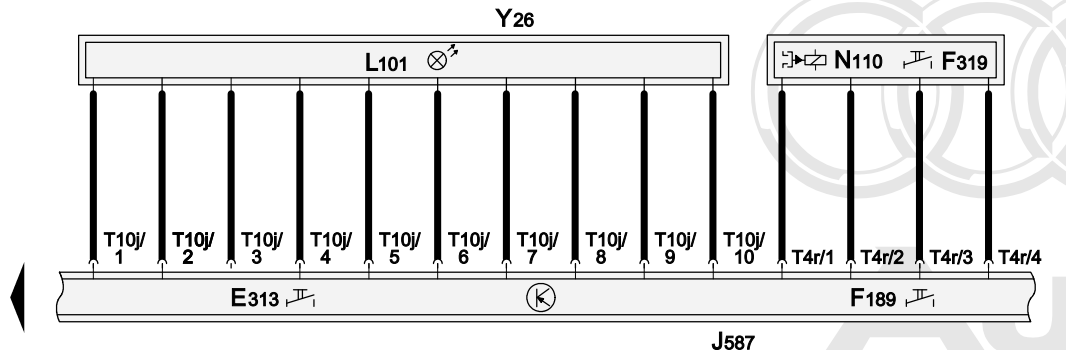
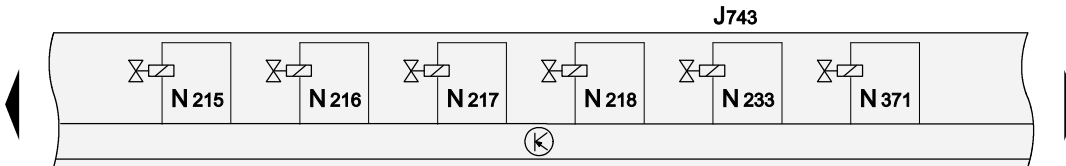
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Selector lever position display, pressure regulating valves, selector lever locked in position P switch

- E313 Selector lever
- F189 Tiptronic switch
- F319 Selector lever locked in position P switch
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- L101 Selector lever display illumination bulb
- N110 Selector lever lock solenoid
- N215 Automatic gearbox pressure regulating valve 1
- N216 Automatic gearbox pressure regulating valve 2
- N217 Automatic gearbox pressure regulating valve 3
- N218 Automatic gearbox pressure regulating valve 4
- N233 Automatic gearbox pressure regulating valve 5
- N371 Automatic gearbox pressure regulating valve 6
- T4r 4-pin connector, on selector lever
- T10j 10-pin connector, black, on selector lever
- Y26 Selector lever position display

390 Earth connection 25, in main wiring harness



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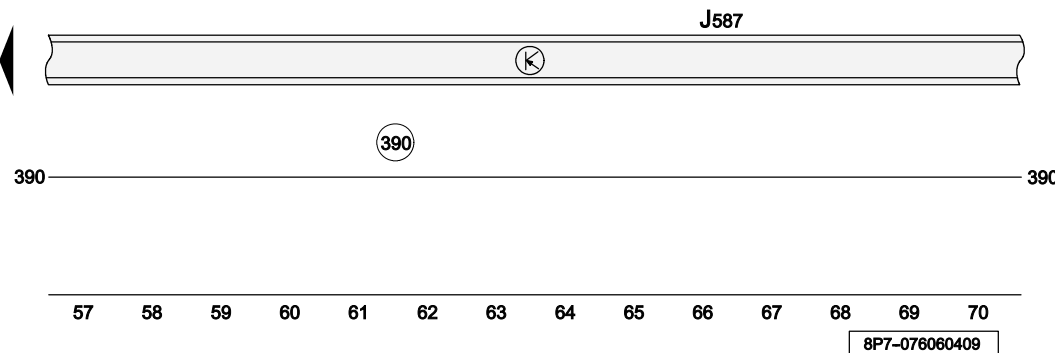
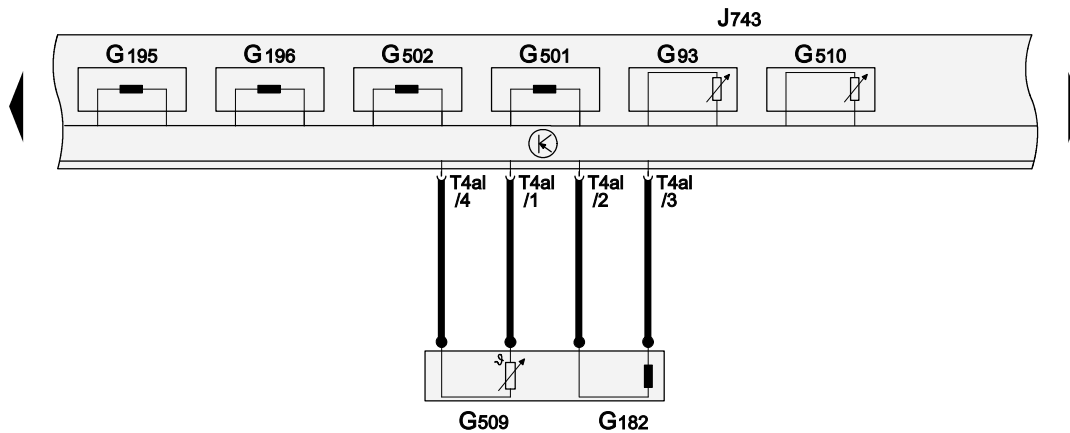
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390

390

43 44 45 46 47 48 49 50 51 52 53 54 55 56

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Gearbox output speed sender, temperature sensor

- G93 Gearbox oil temperature sender
- G182 Gearbox input speed sender
- G195 Gearbox output speed sender
- G196 Gearbox output speed sender 2
- G501 Input shaft speed sender 1
- G502 Input shaft speed sender 2
- G509 Clutch temperature sender
- G510 Temperature sender in control unit
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- T4al 4-pin connector

- 390 Earth connection 25, in main wiring harness

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Drive train CAN bus, hydraulic pressure sender, gear selector movement sensor

- G193 Automatic gearbox hydraulic pressure sender 1
- G194 Automatic gearbox hydraulic pressure sender 2
- G487 Gear selector movement sensor 1
- G488 Gear selector movement sensor 2
- G489 Gear selector movement sensor 3
- G490 Gear selector movement sensor 4
- J... Engine control units
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- T20e 20-pin connector, black (connector A)

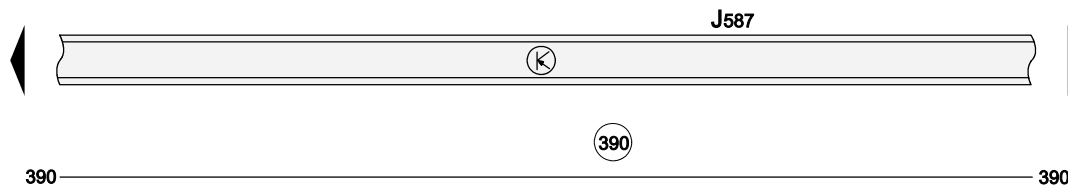
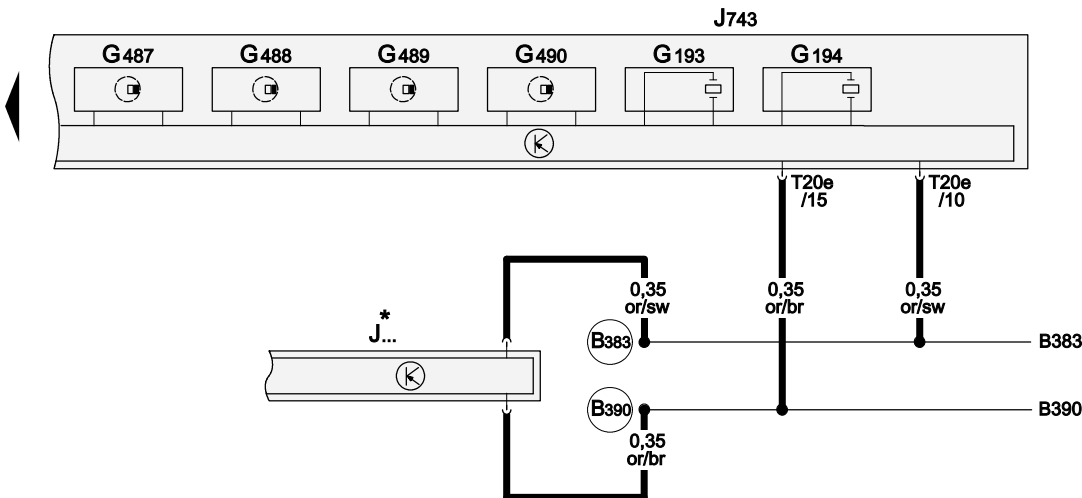
390 Earth connection 25, in main wiring harness

B383 Connection 1 (drive train CAN bus, high), in main wiring harness

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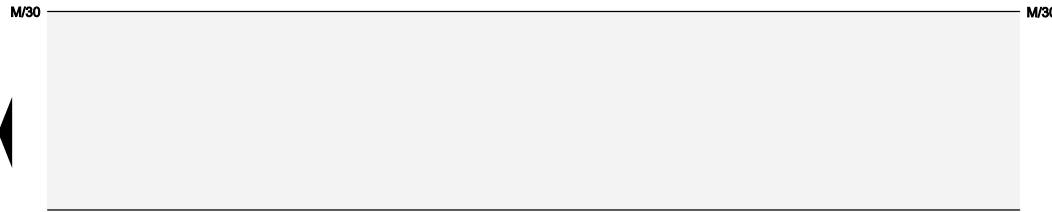
B390 Connection 1 (drive train CAN bus, low), in main wiring harness

* ⇒ applicable engine Current Flow Diagram



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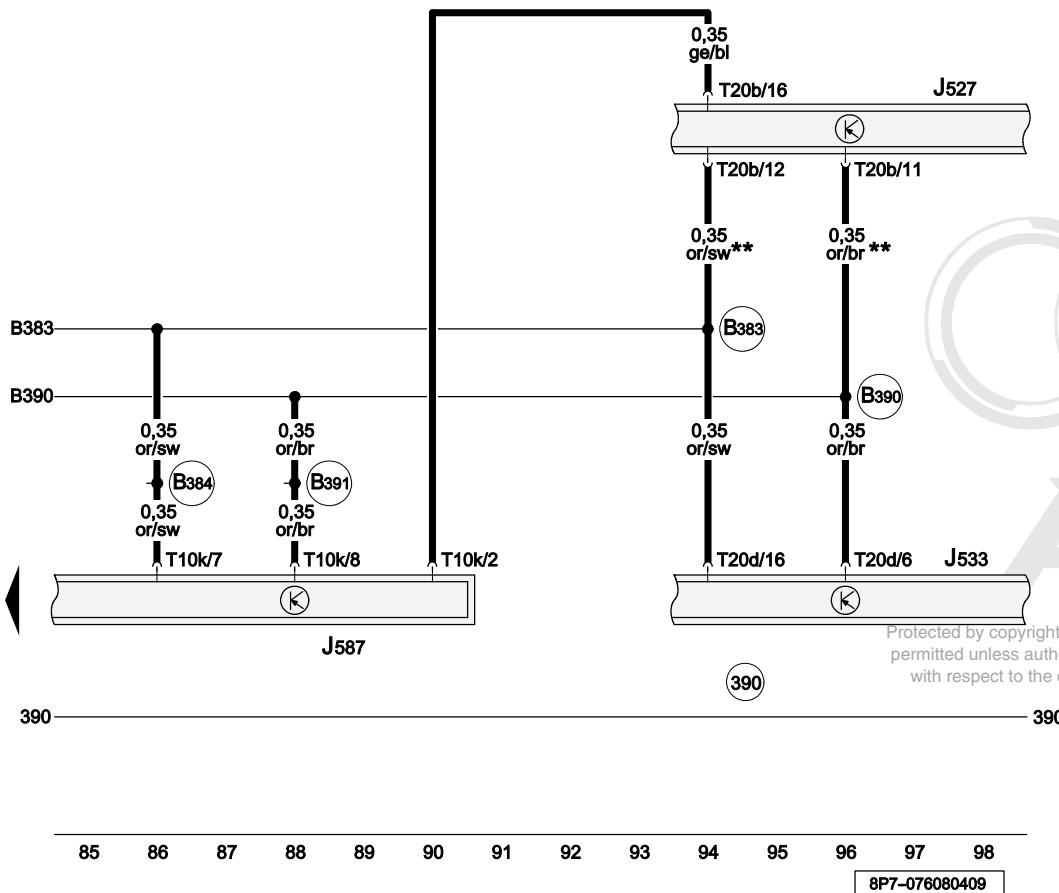


Drive train CAN bus

- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- J587 Selector lever sensors control unit
- T10k 10-pin connector, black (connector A)
- T20b 20-pin connector, black (connector A)
- T20d 20-pin connector, black (connector A)

- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B384 Connection 2 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B391 Connection 2 (drive train CAN bus, low), in main wiring harness

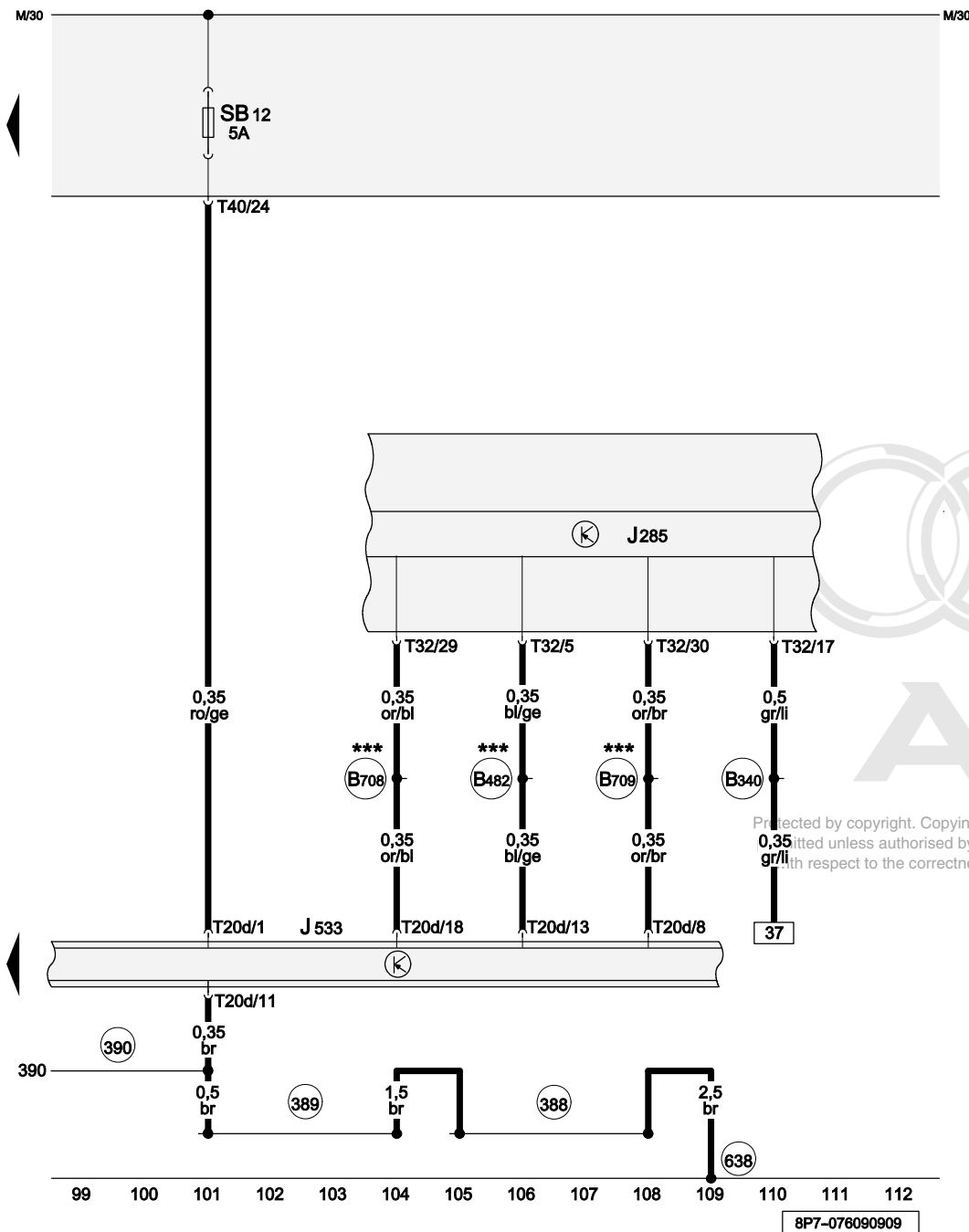
** for models with CAN bus drive train only



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8P7-076080409



Data bus diagnostic interface, control unit in dash panel insert

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

390 Earth connection 25, in main wiring harness

638 Earth point, right A-pillar

B340 Connection 1 (58d), in main wiring harness

B482 Connection 18, in main wiring harness

B708 Connection 1 (dash panel insert CAN bus, high), in main wiring harness

B709 Connection 1 (dash panel insert CAN bus, low), in main wiring harness

*** No longer fitted, phased-in modification

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7-speed dual clutch gearbox 0AM (S tronic)

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

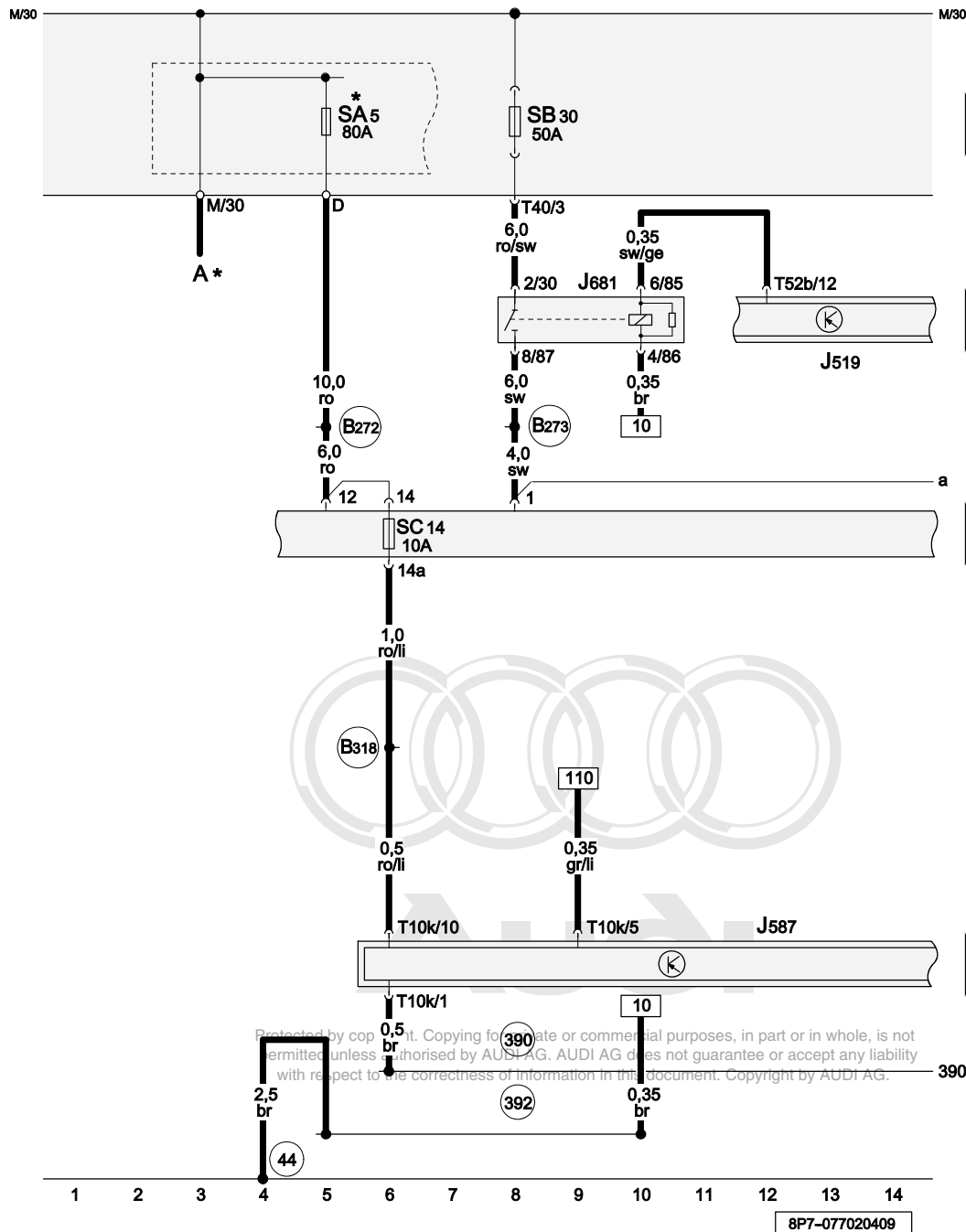
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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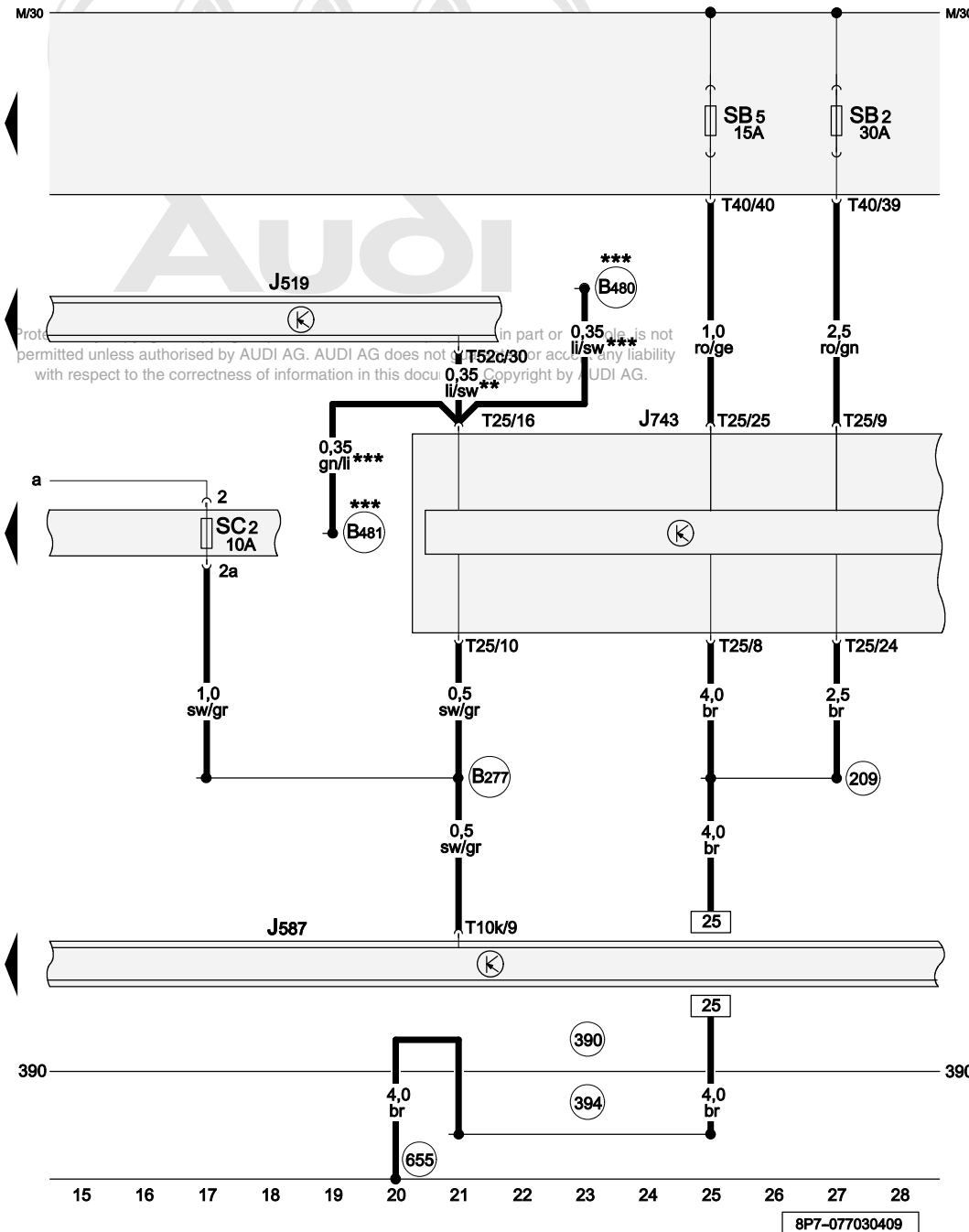
Electronics box supply, fuses on fuse holder

- A Battery
- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J681 Terminal 15 voltage supply relay 2
- SA5 Fuse 5 on fuse holder A
- SB30 Fuse 30 on fuse holder B
- SC14 Fuse 14 on fuse holder C
- T10k 10-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- 44 Earth point, lower part of left A-pillar
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B272 Positive connection (30), in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B318 Positive connection 4 (30a), in main wiring harness

* ⇒ applicable Current Flow Diagram with battery in engine compartment

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8P7-077020409



Voltage supply mechatronic unit for dual clutch gearbox, selector lever sensors control unit

- J519 Onboard supply control unit
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- SB2 Fuse 2 on fuse holder B
- SB5 Fuse 5 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- T10k 10-pin connector, black (connector A)
- T25 25-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52c 52-pin connector, brown (connector C)

209 Earth connection 6, in engine compartment wiring harness

390 Earth connection 25, in main wiring harness

394 Earth connection 29, in main wiring harness

655 Earth point, on left headlight

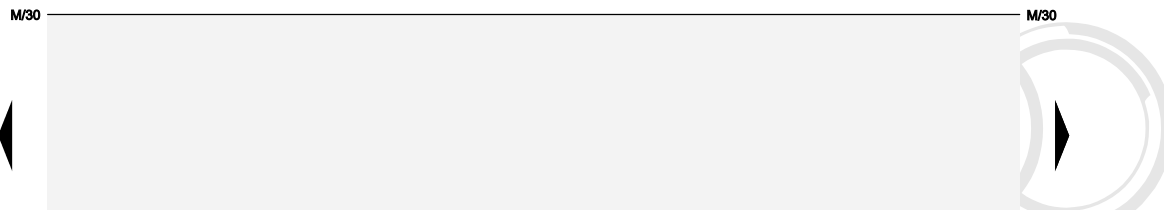
B277 Positive connection 1 (15a), in main wiring harness

B480 Connection 16, in main wiring harness

B481 Connection 17, in main wiring harness

** only models without stop/start system

*** only models with stop/start system → applicable engine Current Flow Diagram

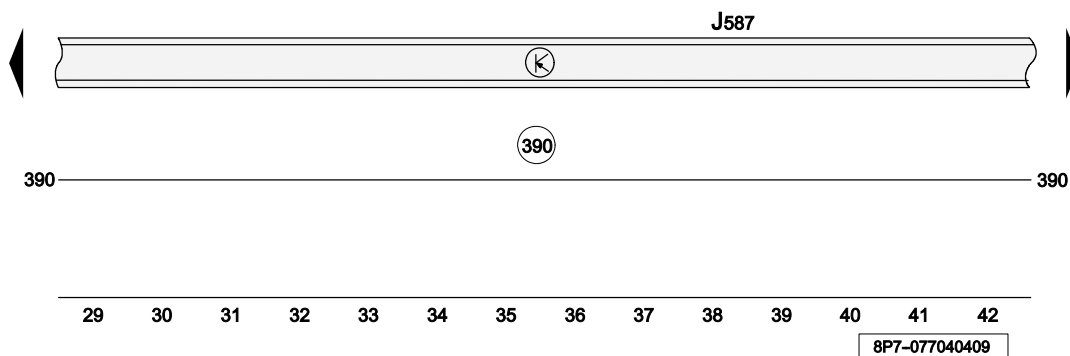
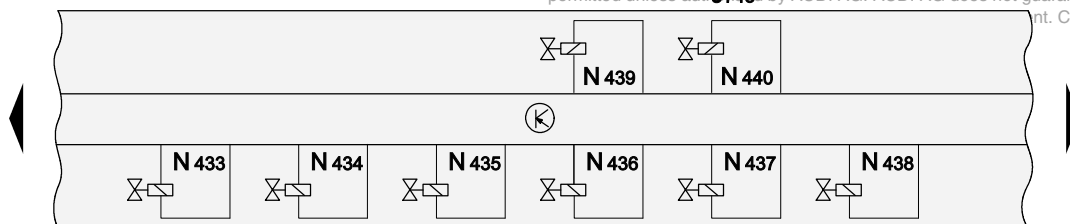


Solenoid valves

- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- N433 Valve 1 in sub gearbox 1
- N434 Valve 2 in sub gearbox 1
- N435 Valve 3 in sub gearbox 1
- N436 Valve 4 in sub gearbox 1
- N437 Valve 1 in sub gearbox 2
- N438 Valve 2 in sub gearbox 2
- N439 Valve 3 in sub gearbox 2
- N440 Valve 4 in sub gearbox 2

- 390 Earth connection 25, in main wiring harness

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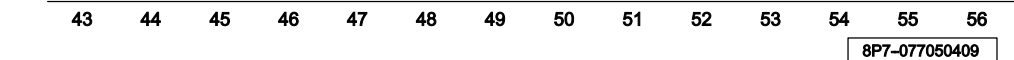
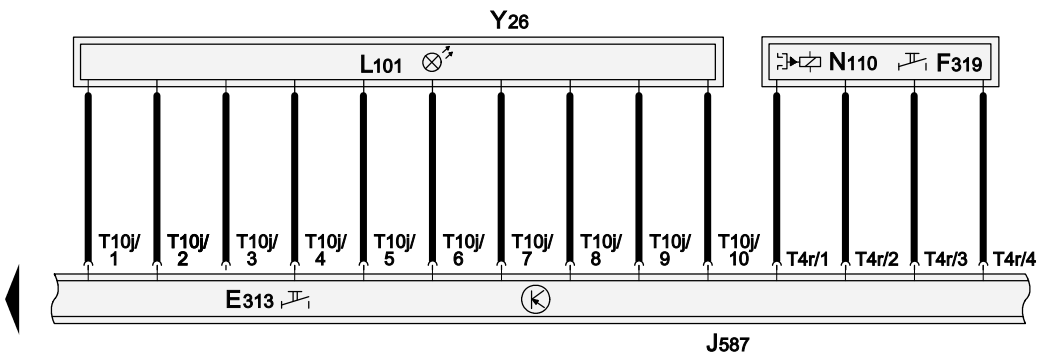
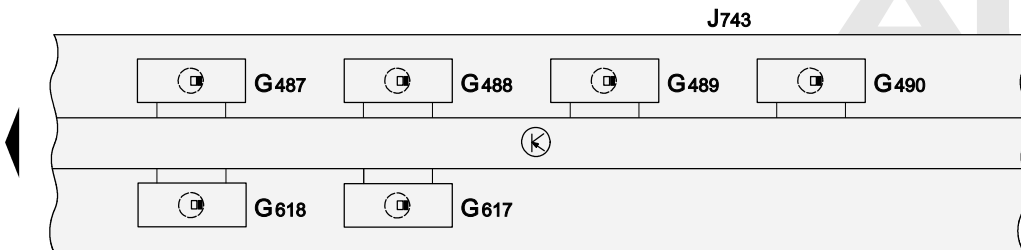


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Selector lever position display, selector lever locked in position P switch, clutch travel sender, gear selector movement sensor

- E313 Selector lever
- F319 Selector lever locked in position P switch
- G487 Gear selector movement sensor 1
- G488 Gear selector movement sensor 2
- G489 Gear selector movement sensor 3
- G490 Gear selector movement sensor 4
- G617 Clutch travel sender 1
- G618 Clutch travel sender 2
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- L101 Selector lever display illumination bulb
- N110 Selector lever lock solenoid
- T4r 4-pin connector, on selector lever
- T10j 10-pin connector, black, on selector lever
- Y26 Selector lever position display



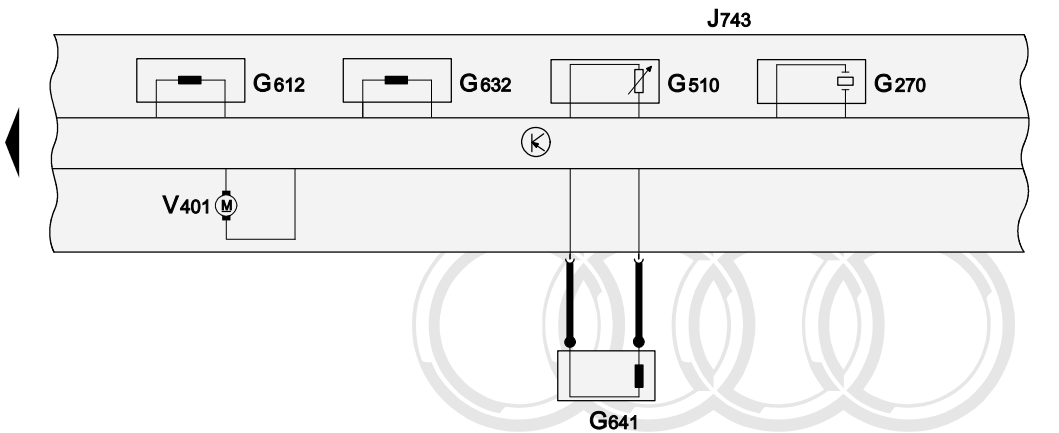
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Gearbox hydraulic pressure sender, temperature sender in control unit, gearbox input speed sender, input shaft speed sender 1, hydraulic pump motor

- G270 Gearbox hydraulic pressure sender
- G510 Temperature sender in control unit
- G612 Gearbox input speed sender 2
- G632 Input shaft speed sender 1
- G641 Gearbox input speed sender 3
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- V401 Hydraulic pump motor

390 Earth connection 25, in main wiring harness



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390

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

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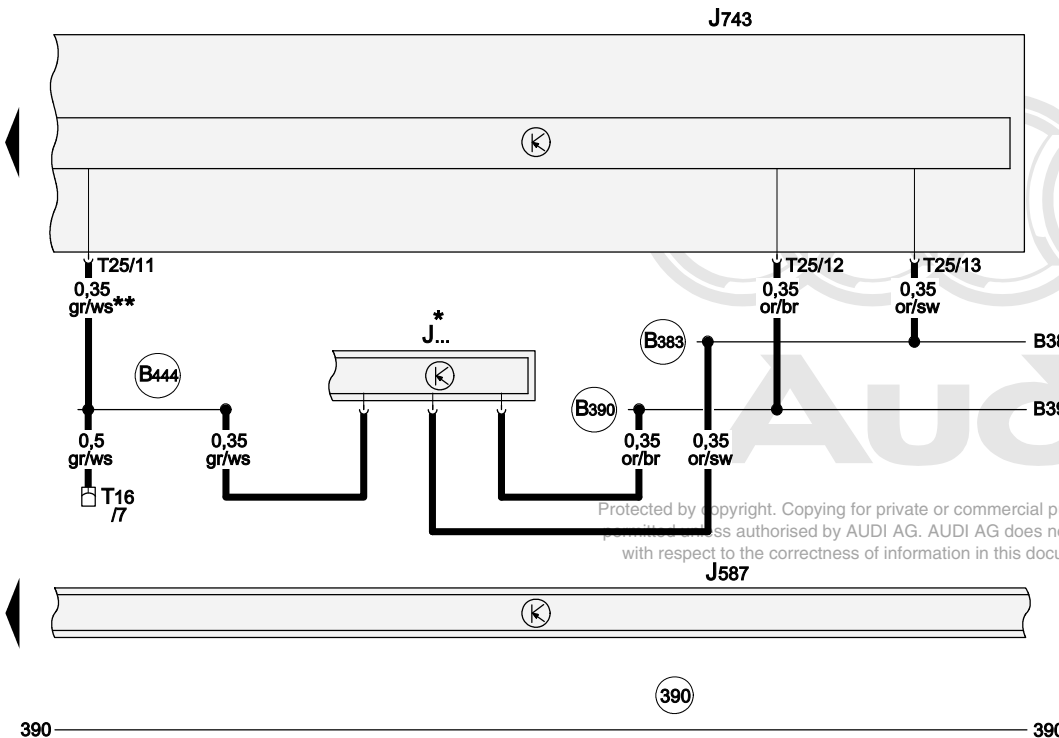
ws = white
sw = black
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CAN bus drive train, diagnostic connector

- J... Engine control units
- J587 Selector lever sensors control unit
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T25 25-pin connector, black (connector A)
- 390 Earth connection 25, in main wiring harness
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness

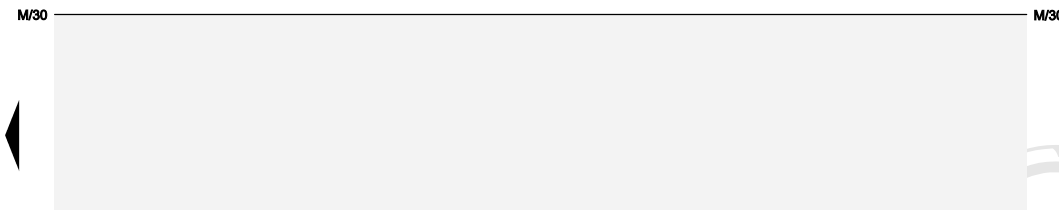
* ⇒ applicable engine Current Flow Diagram
 ** for models with diagnosis connection only



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- ge = yellow
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- rs = pink

71 72 73 74 75 76 77 78 79 80 81 82 83 84

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Drive train CAN bus

- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- J587 Selector lever sensors control unit
- T10k 10-pin connector, black (connector A)
- T20b 20-pin connector, black (connector A)
- T20d 20-pin connector, yellow (connector A)

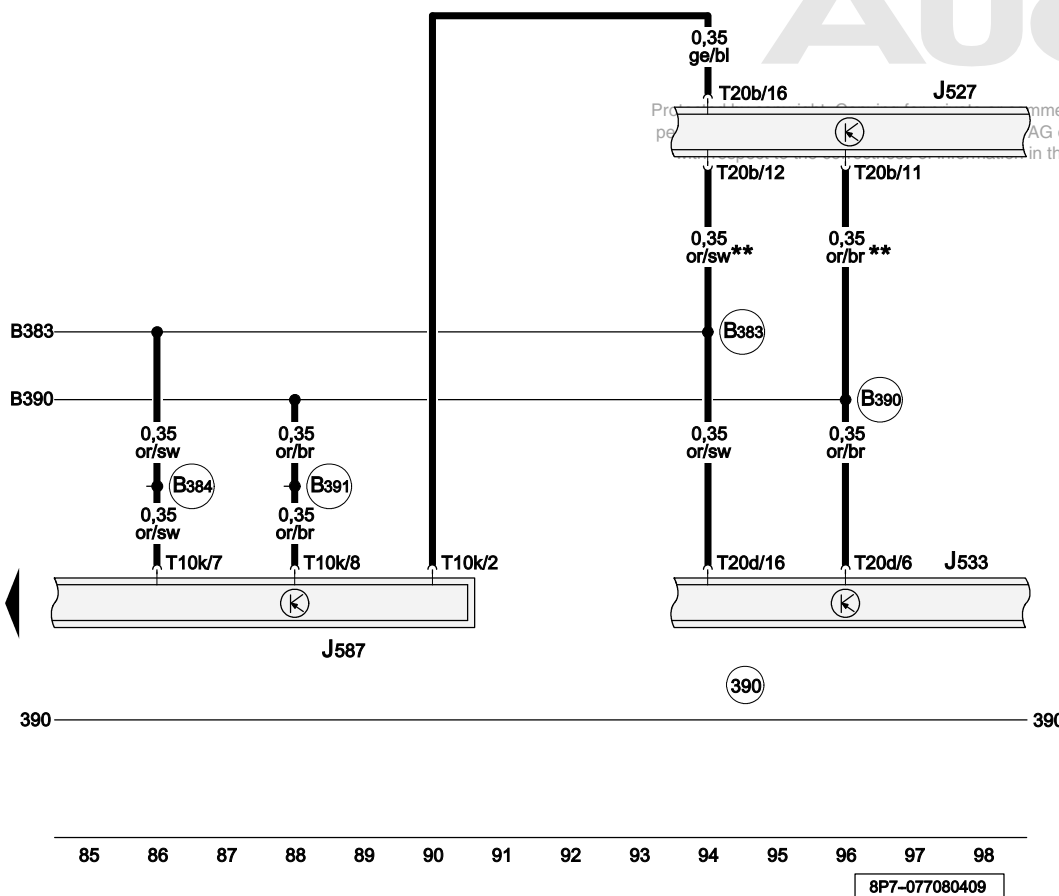
B383 Connection 1 (drive train CAN bus, high), in main wiring harness

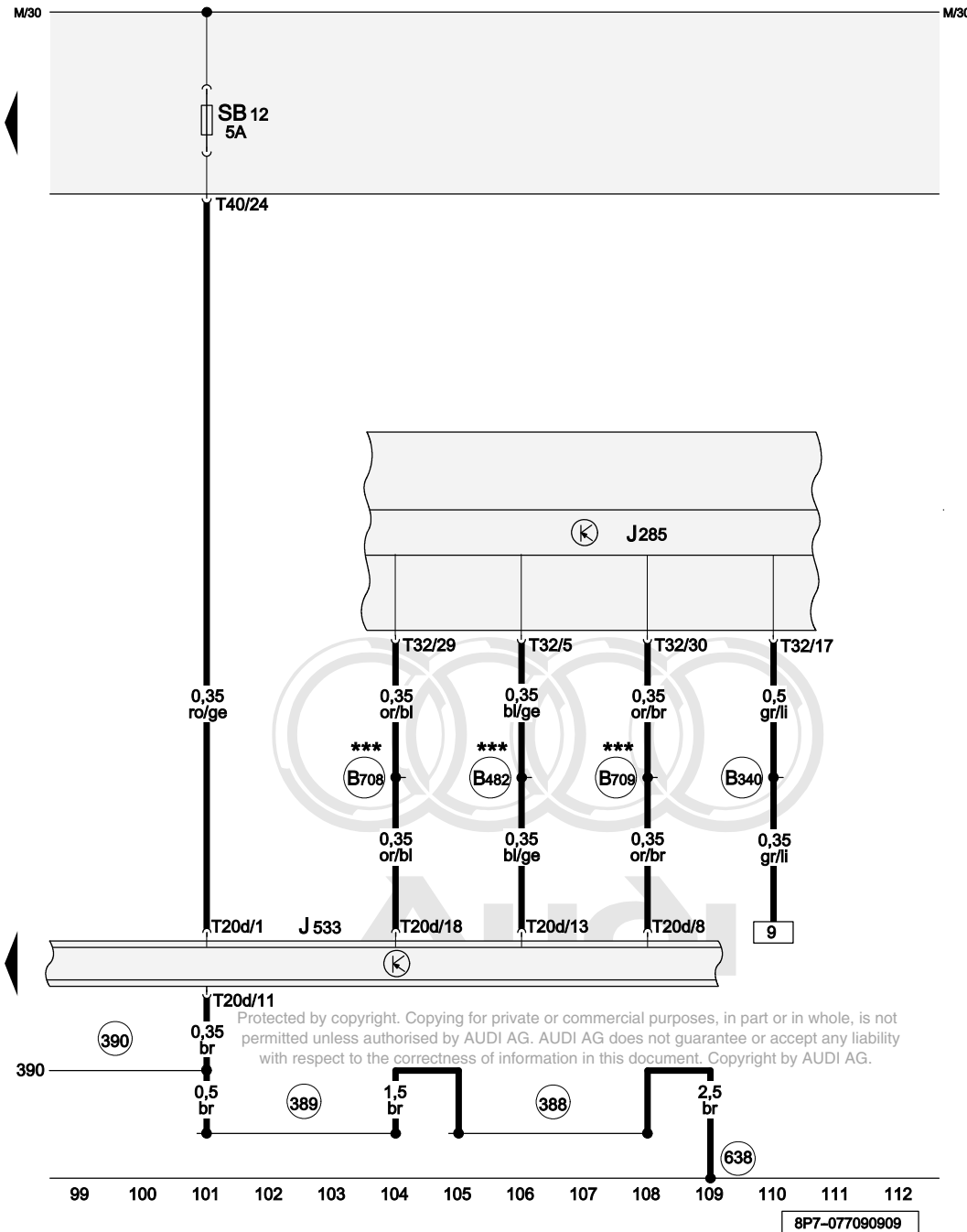
B384 Connection 2 (drive train CAN bus, high), in main wiring harness

B390 Connection 1 (drive train CAN bus, low), in main wiring harness

B391 Connection 2 (drive train CAN bus, low), in main wiring harness

** for models with CAN bus drive train only





Data bus diagnostic interface, control unit in dash panel insert

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, right A-pillar
- B340 Connection 1 (58d), in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus, high), in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus, low), in main wiring harness

*** No longer fitted, phased-in modification

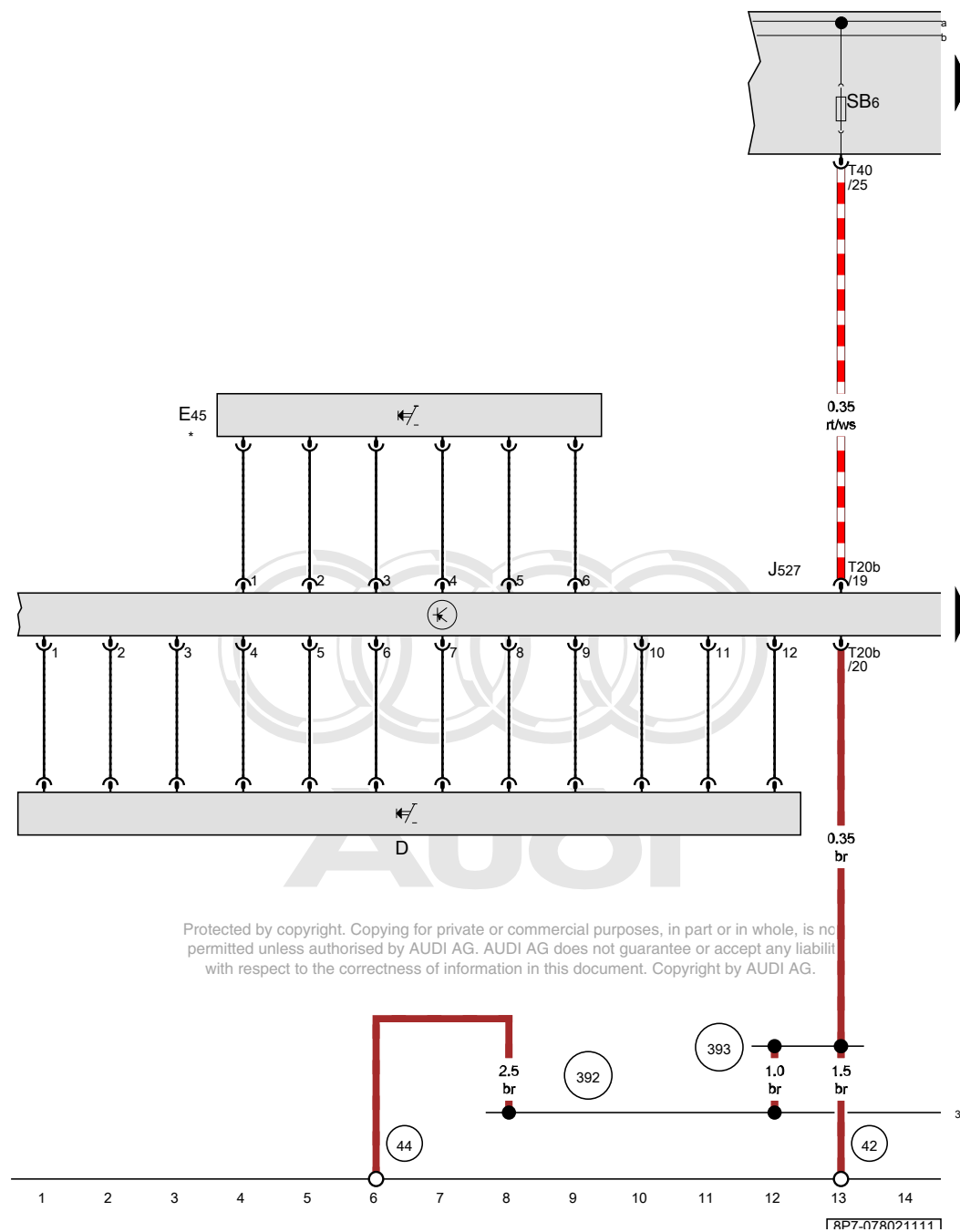
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2.0l petrol engine , CCZA

From May 2009



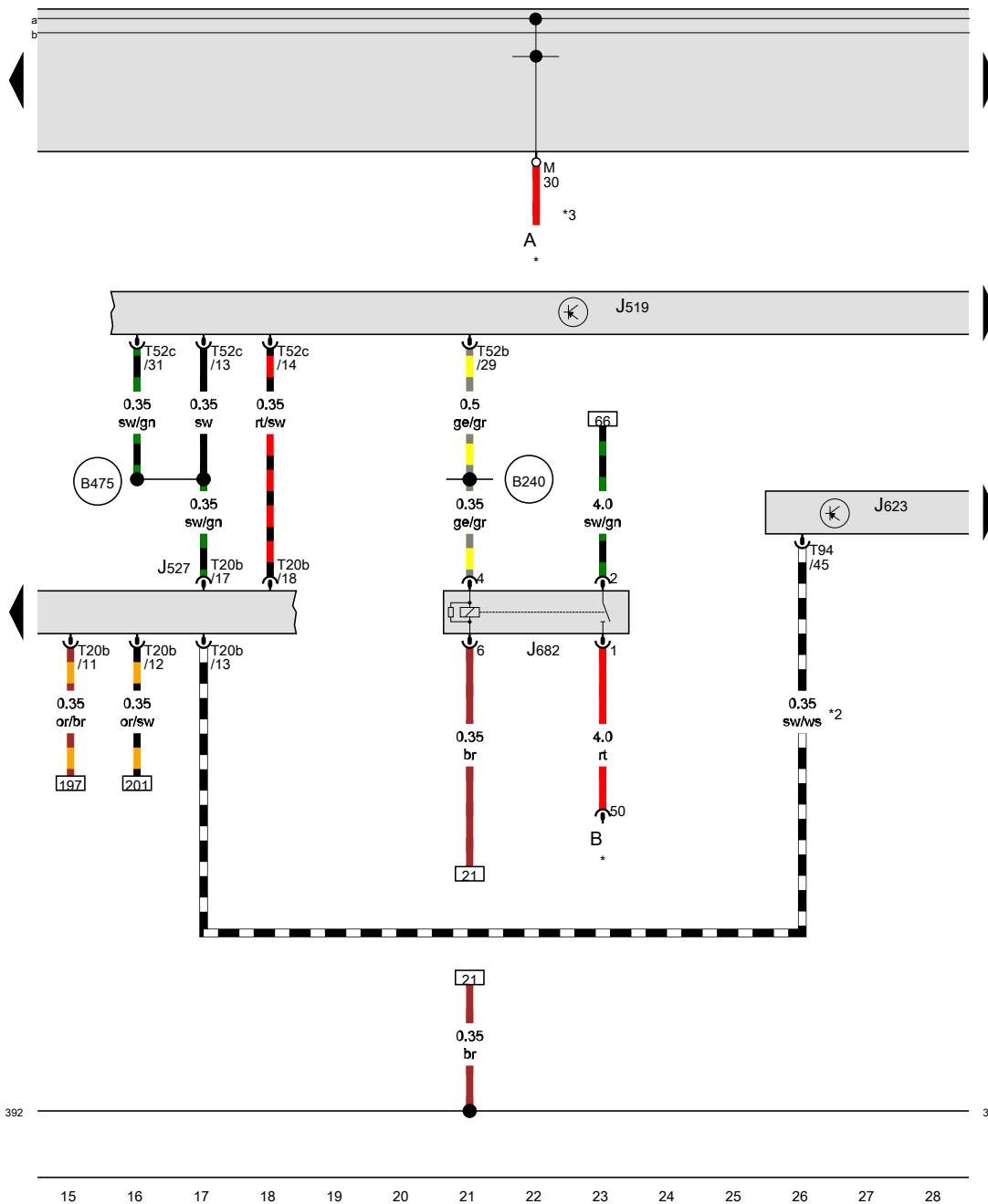
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**Ignition/starter switch, Cruise control system switch,
Steering column electronics control unit**

- | | |
|------|--|
| D | Ignition/starter switch |
| E45 | Cruise control system switch |
| J527 | Steering column electronics control unit |
| SB6 | Fuse 6 on fuse holder B |
| T20b | 20-pin connector |
| T40 | 40-pin connector |
| 42 | Earth point, next to steering column |
| 44 | Earth point, lower part of left A-pillar |
| 392 | Earth connection 27, in main wiring harness |
| 393 | Earth connection 28, in main wiring harness |
| * | Only models with cruise control system (CCS) |

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Onboard supply control unit, Steering column electronics control unit, Engine control unit, Terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T20b 20-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T94 94-pin connector

392 Earth connection 27, in main wiring harness

B240 Positive connection 2 (50), in interior wiring harness

B475 Connection 11, in main wiring harness

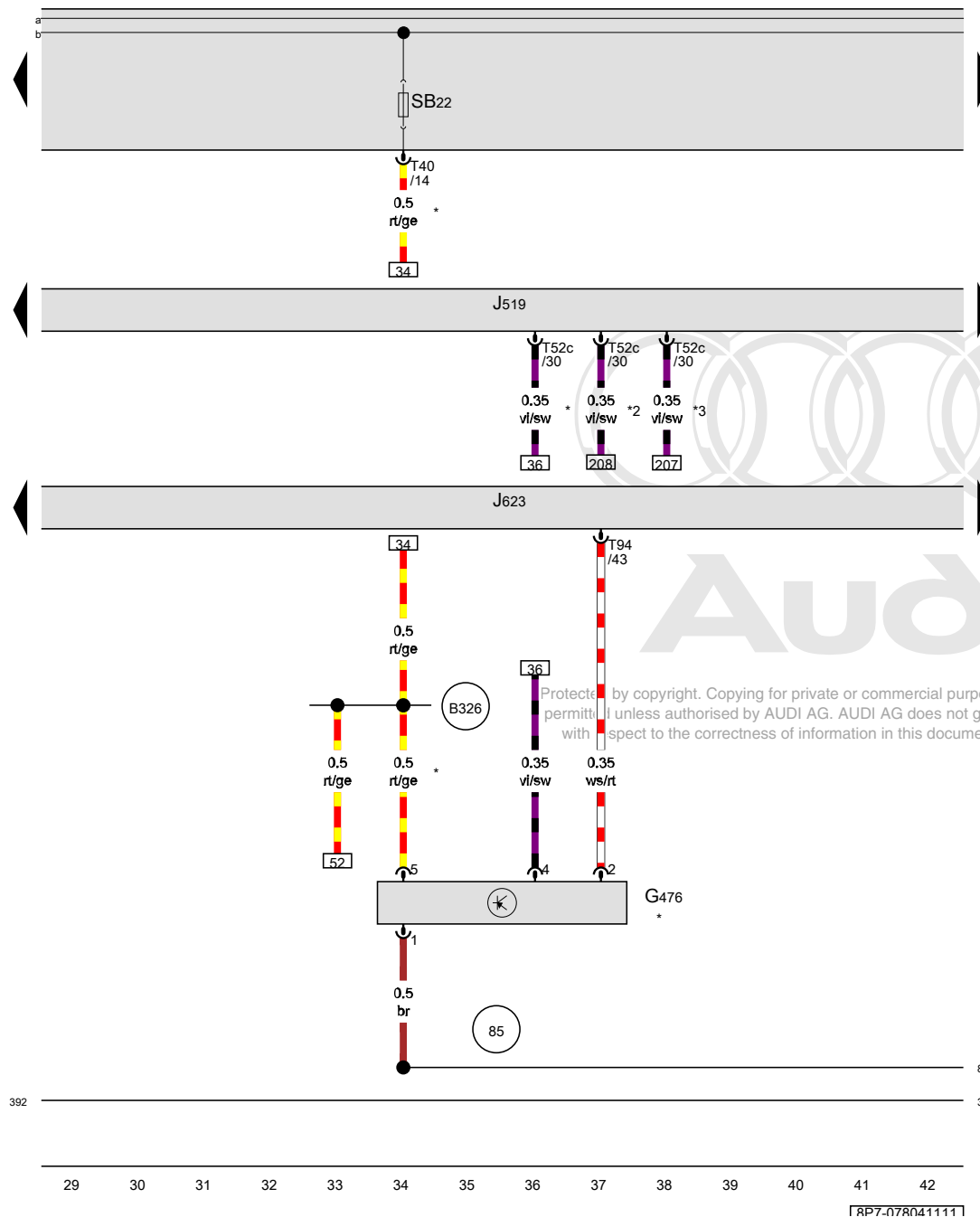
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* see applicable current flow diagram for battery in engine compartment

*2 Only models with cruise control system (CCS)

*3 Cross section depends on equipment

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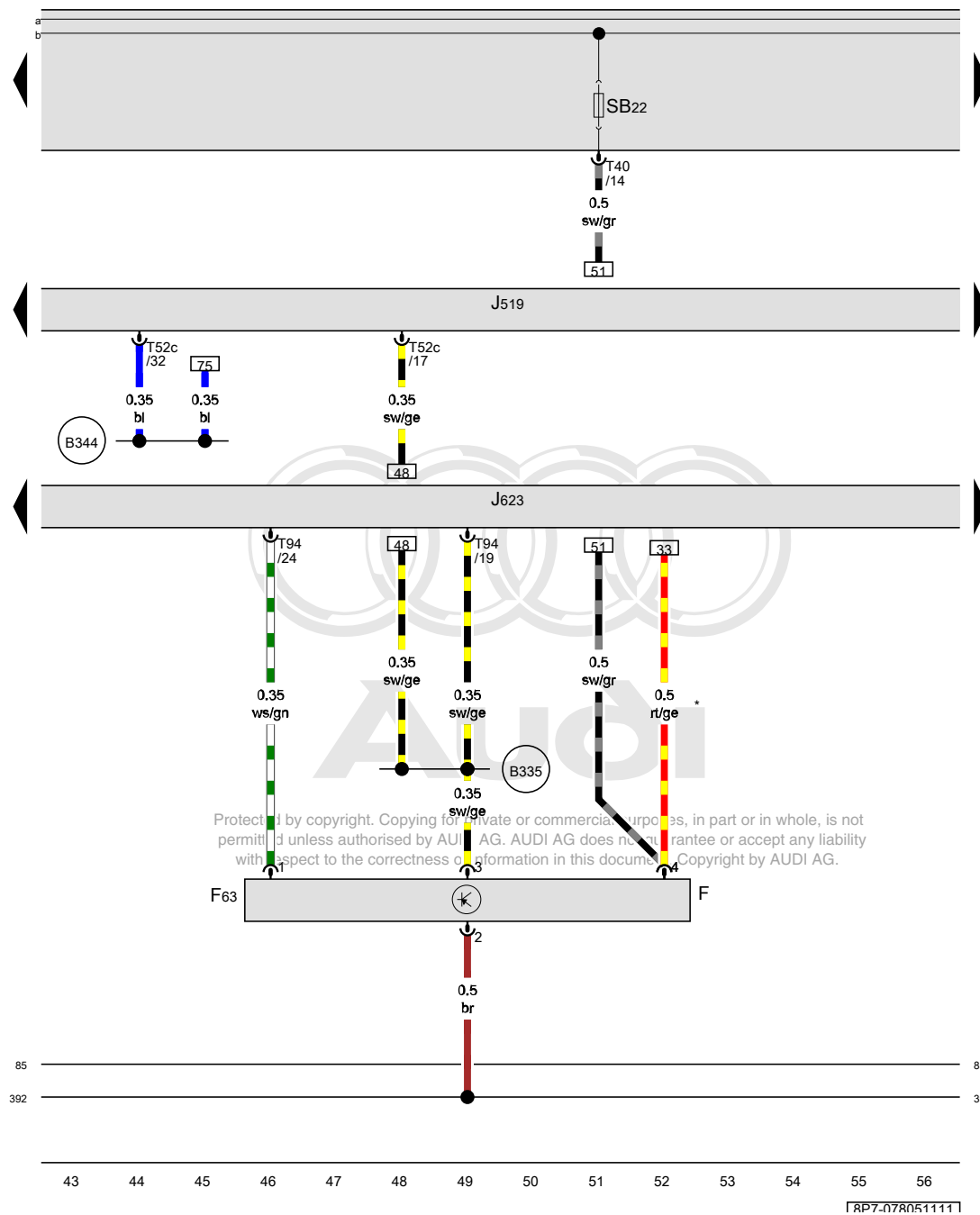
Clutch position sender, Onboard supply control unit, Engine control unit

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B326 Positive connection 12 (30a) in main wiring harness

- * Only models with manual gearbox
- *2 Only models with dual clutch gearbox 0AM
- *3 Only models with dual clutch gearbox 02E

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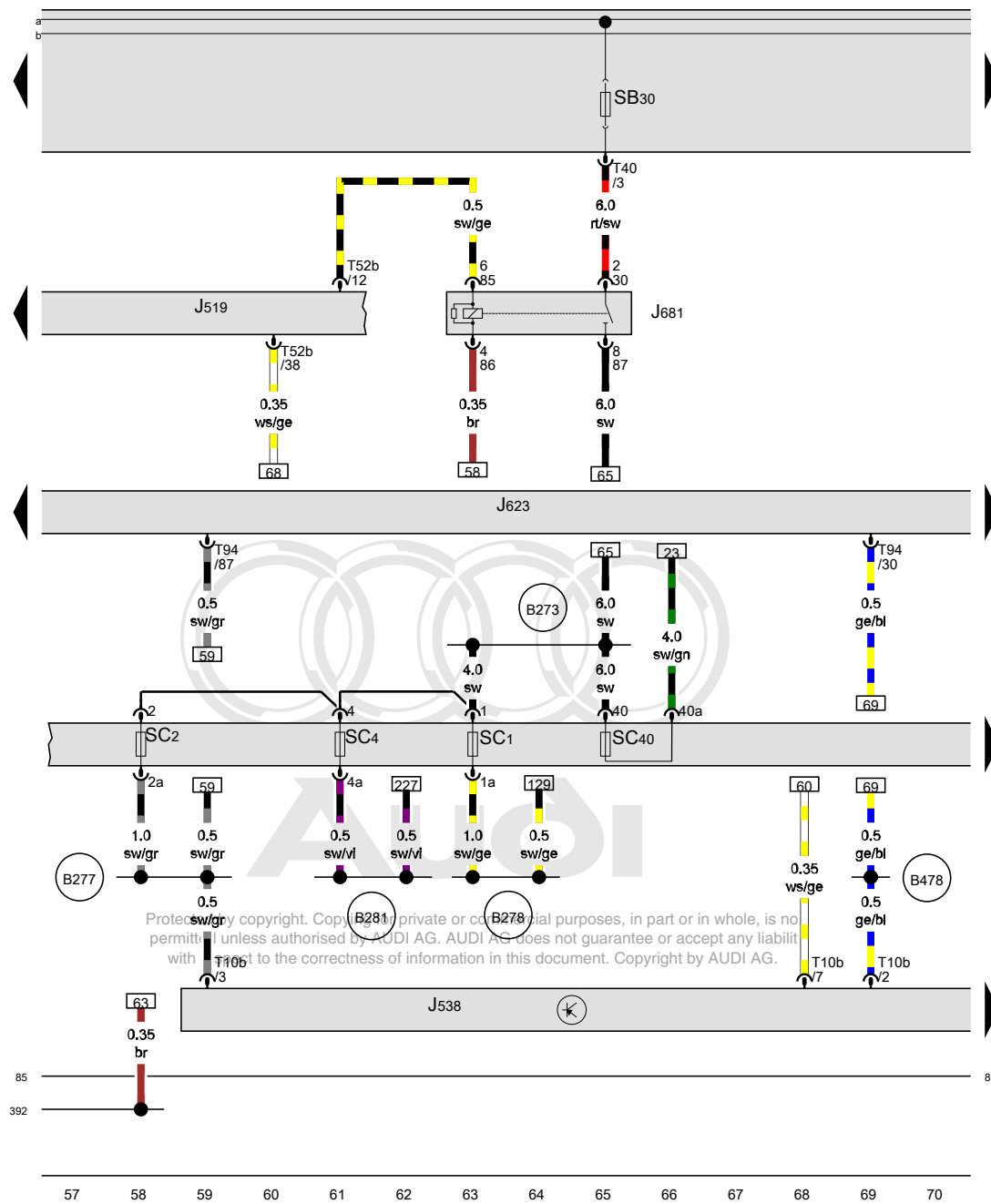
Brake pedal switch, Onboard supply control unit, Engine control unit

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B335 Connection 1 (54), in main wiring harness
- B344 Connection 1 (61), in main wiring harness
- * Only models with manual gearbox

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[AP7-078051111]

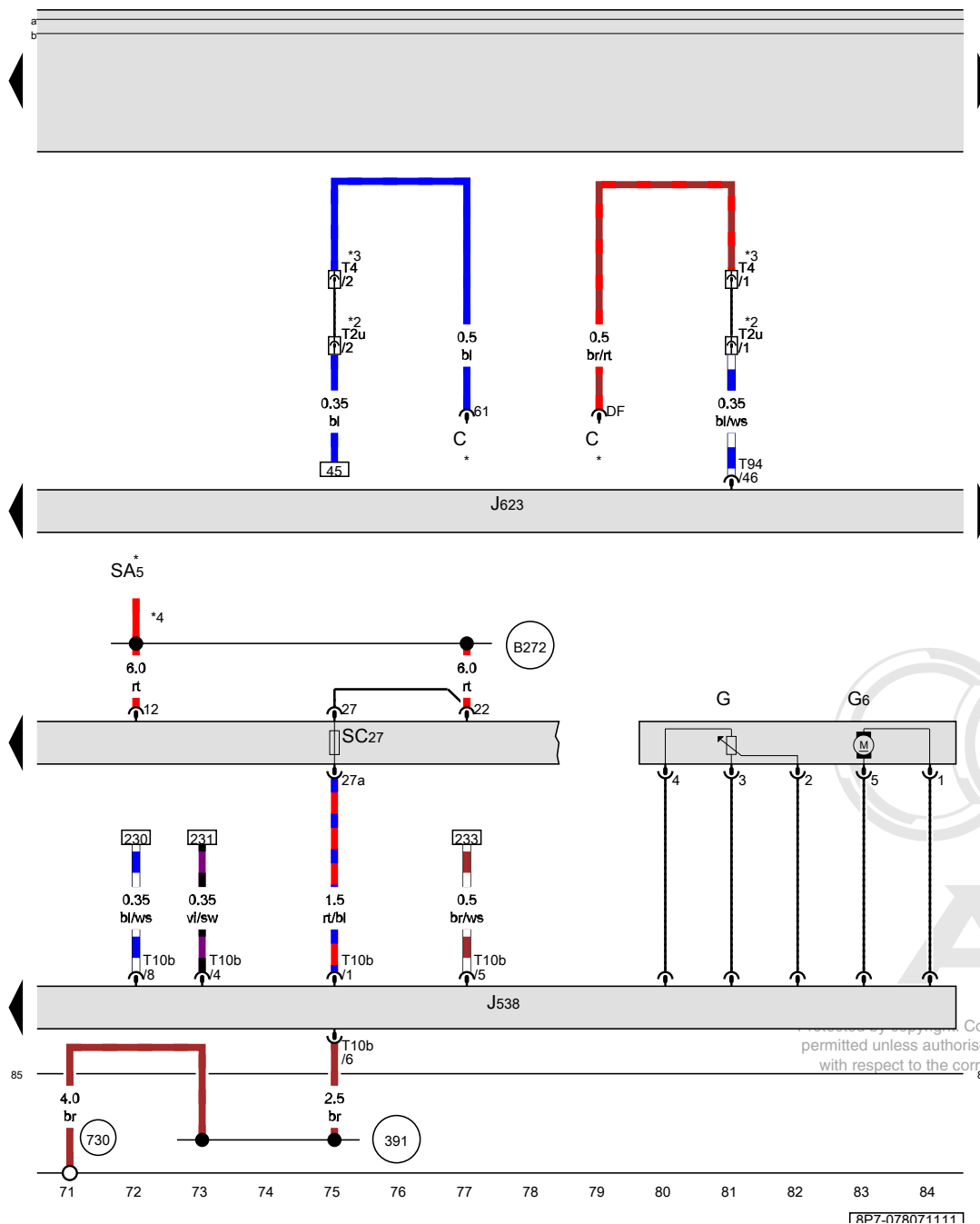


Onboard supply control unit, Fuel pump control unit, Engine control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J538 Fuel pump control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- SC40 Fuse 40 on fuse holder C
- T10b 10-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B281 Positive connection 5 (15a) in main wiring harness
- B478 Connection 14, in main wiring harness

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Fuel gauge sender, Fuel system pressurisation pump, Fuel pump control unit, Engine control unit

- C Alternator
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J538 Fuel pump control unit
- J623 Engine control unit
- SA5 Fuse 5 in fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, on left in engine compartment
- T4 4-pin connector, on left in engine compartment
- T10b 10-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 391 Earth connection 26, in main wiring harness
- 730 Earth point 1, on right rear wheel housing
- B272 Positive connection (30), in main wiring harness

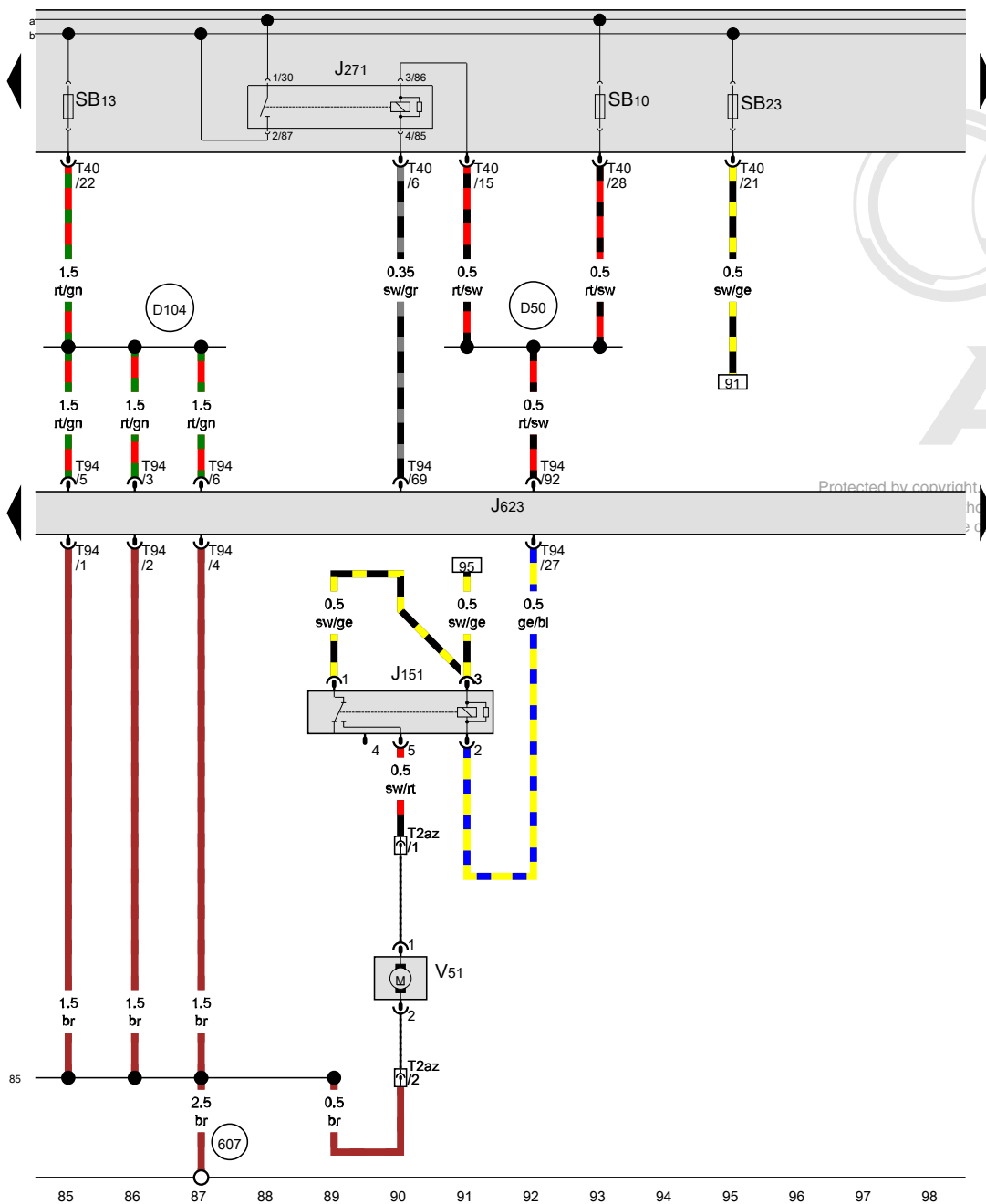
* see applicable current flow diagram for battery in engine compartment

*2 Only models with no air conditioning system

*3 Only models with air conditioning system

*4 Cross section depends on equipment

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Continued coolant circulation relay, Main relay, Engine control unit, Continued coolant circulation pump

- J151 Continued coolant circulation relay
- J271 Main relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T2az 2-pin connector
- T40 40-pin connector
- T94 94-pin connector
- V51 Continued coolant circulation pump

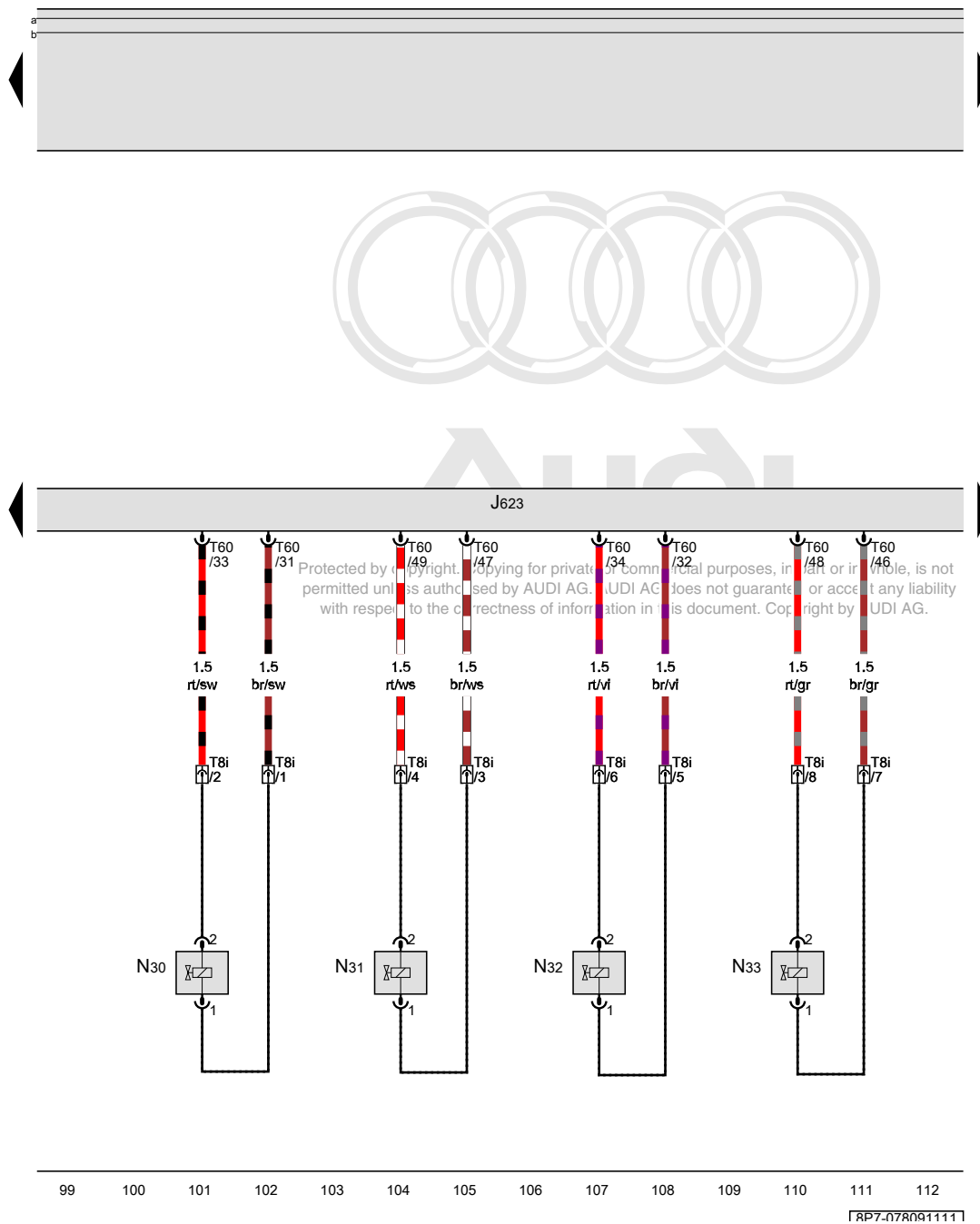
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D50 Positive connection (30), in engine compartment wiring harness
- D104 Positive connection 2 (30a), in engine compartment wiring harness

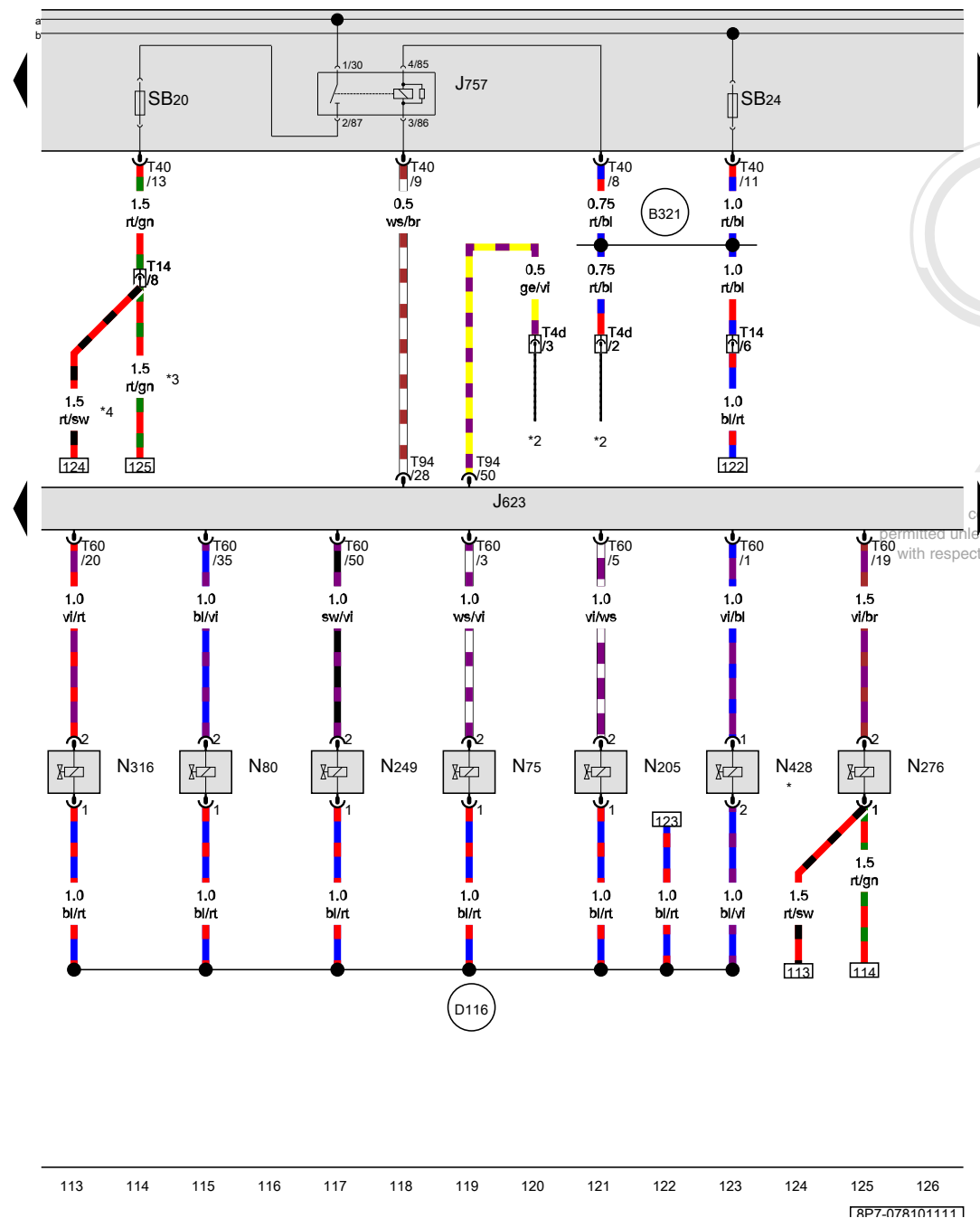
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[AP7-07R0R1111]

Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit
N30 Injector, cylinder 1
N31 Injector, cylinder 2
N32 Injector, cylinder 3
N33 Injector, cylinder 4
T8i 8-pin connector, near injectors
T60 60-pin connector





Engine control unit, Engine component current supply relay, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve, Fuel pressure regulating valve, Intake manifold flap valve, Valve for oil pressure control

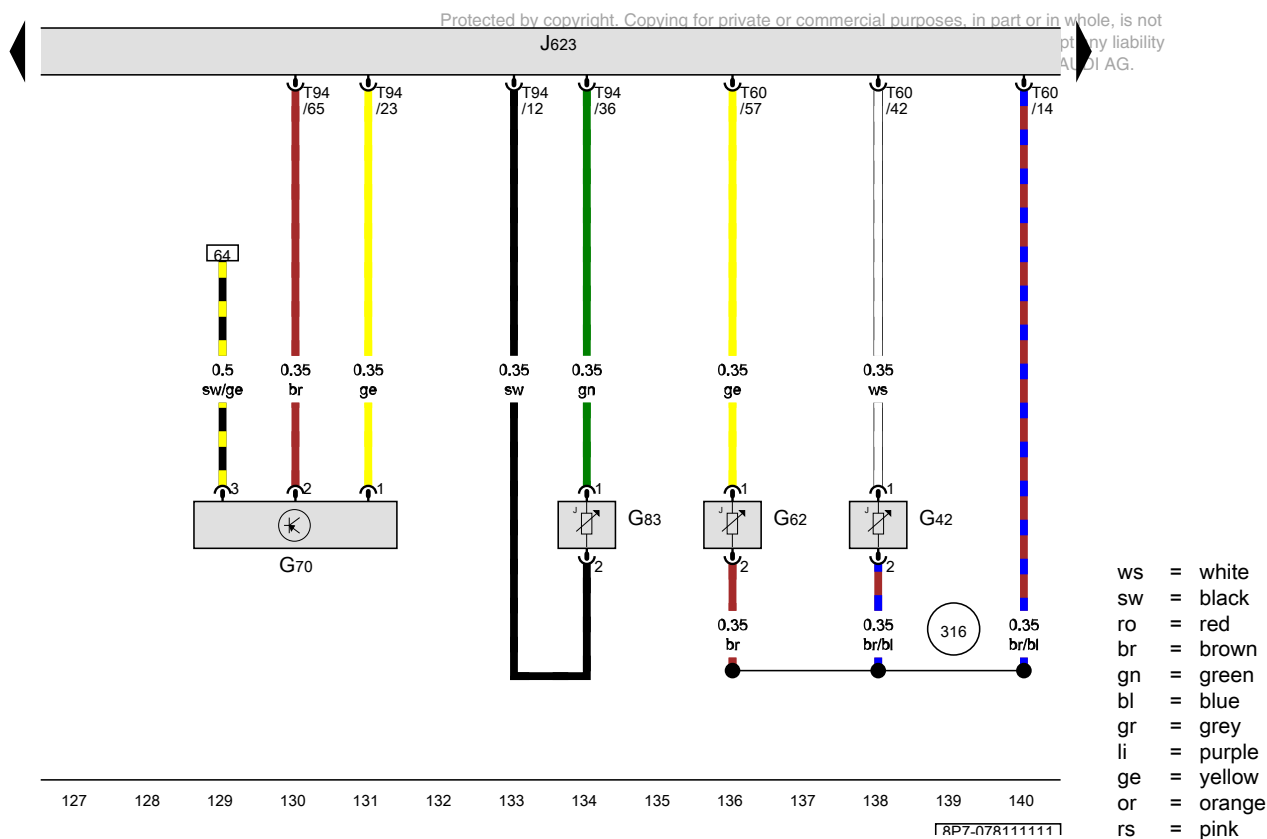
- J623 Engine control unit
- J757 Engine component current supply relay
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter solenoid valve 1
- N205 Camshaft control valve 1
- N249 Turbocharger air recirculation valve
- N276 Fuel pressure regulating valve
- N316 Intake manifold flap valve
- N428 Valve for oil pressure control
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, near radiator fan
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector
- B321 Positive connection 7 (30a) in main wiring harness
- D116 Connection 14 in engine compartment wiring harness
- * According to equipment
- *2 see applicable current flow diagram for radiator fan
- *3 Gradually discontinued
- *4 gradual introduction

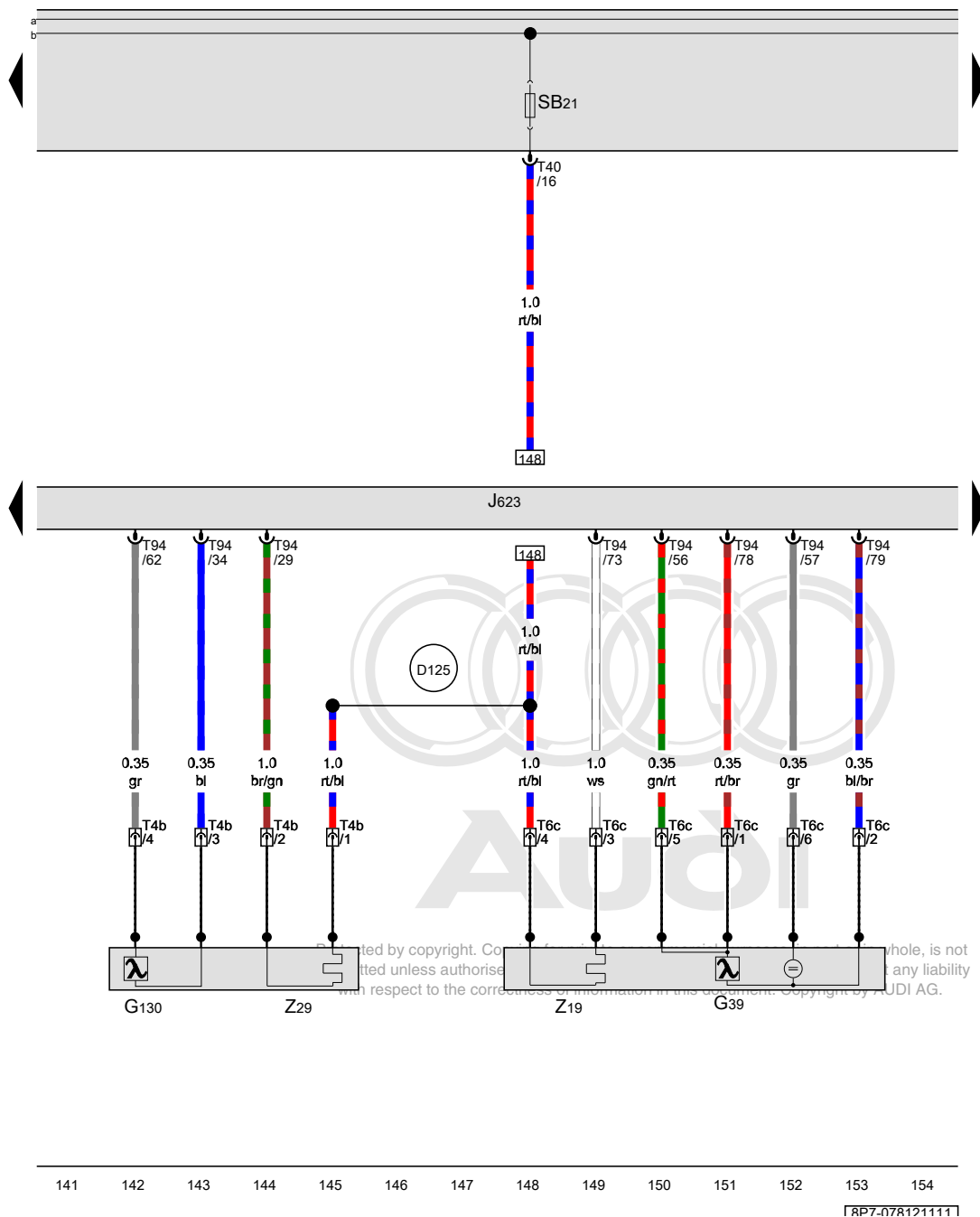
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Intake air temperature sender, Coolant temperature sender,
Air mass meter, Radiator outlet coolant temperature sender,
Engine control unit

- G42 Intake air temperature sender
- G62 Coolant temperature sender
- G70 Air mass meter
- G83 Radiator outlet coolant temperature sender
- J623 Engine control unit
- T60 60-pin connector
- T94 94-pin connector

316 Earth connection (sender earth 2) in engine wiring harness

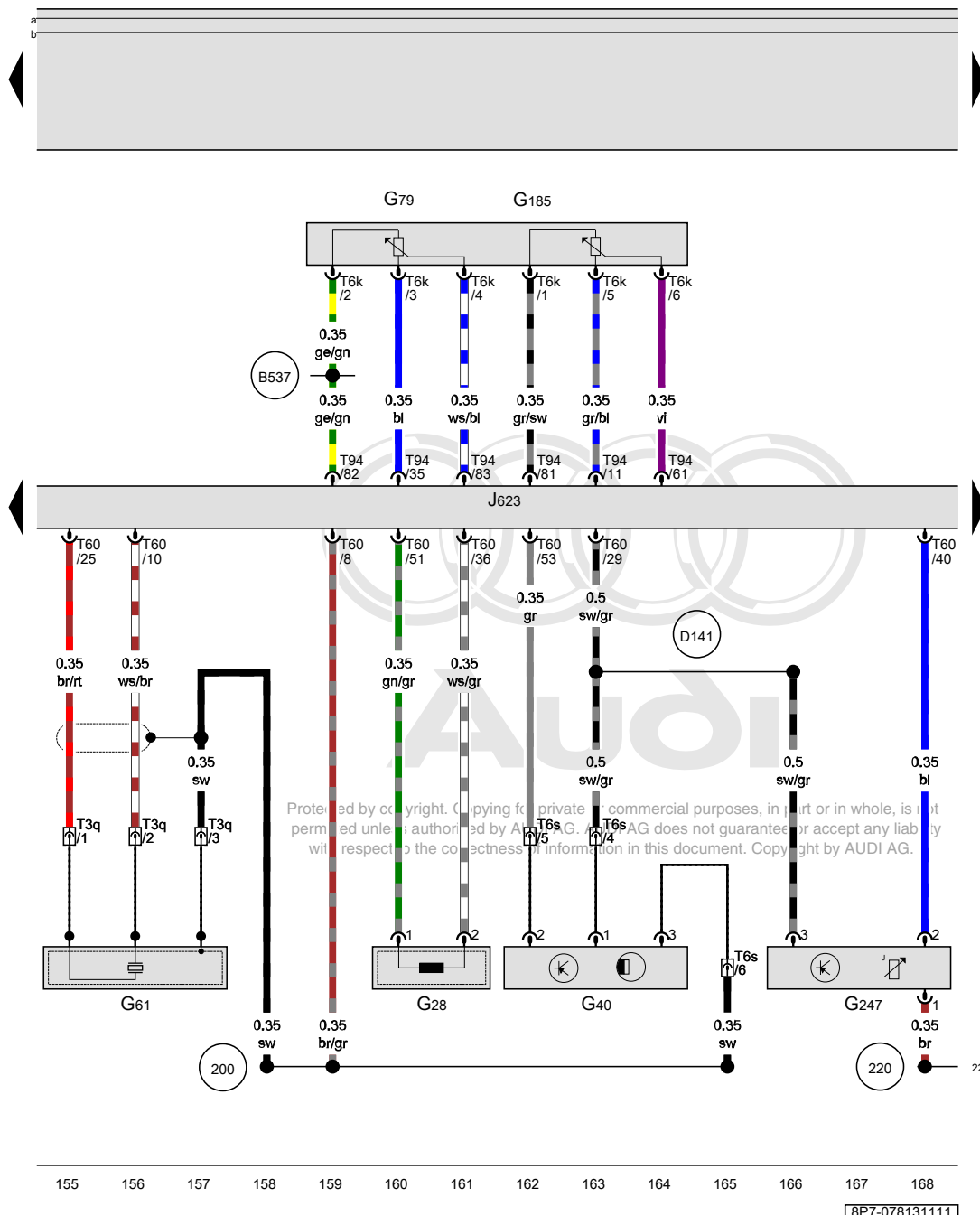




Lambda probe, Lambda probe after catalytic converter, Engine control unit

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T4b 4-pin connector, on Lambda probe after catalytic converter
- T6c 6-pin connector, on Lambda probe before catalytic converter
- T40 40-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter
- D125 Connection 23 in engine compartment wiring harness

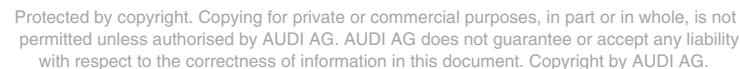
ws = white
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gn = green
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Engine speed sender, Hall sender, Knock sensor 1, Accelerator position sender, Fuel pressure sender, Engine control unit

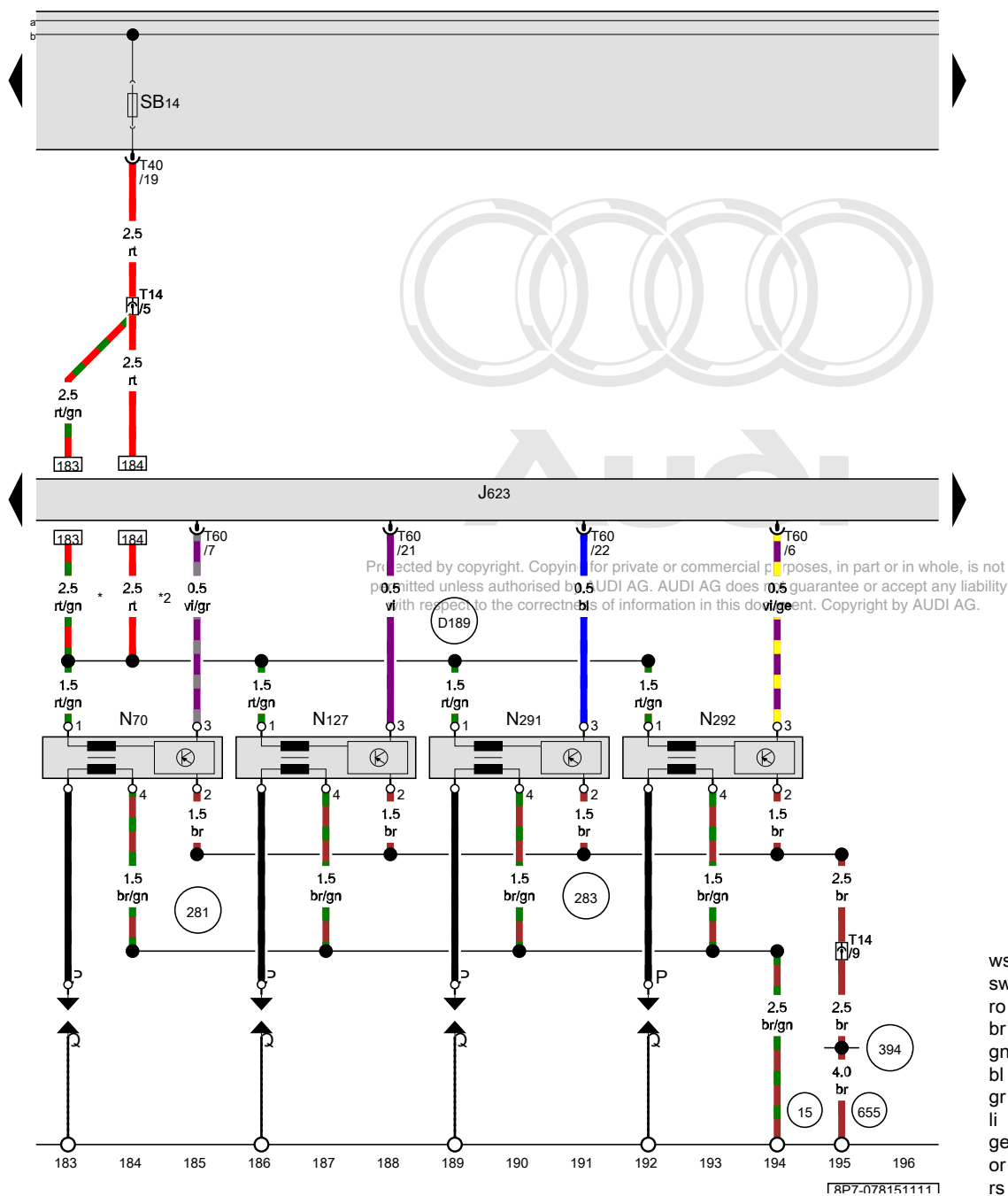
- G28 Engine speed sender
- G40 Hall sender
- G61 Knock sensor 1
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- G247 Fuel pressure sender
- J623 Engine control unit
- T3q 3-pin connector, near knock sensor
- T6k 6-pin connector
- T6s 6-pin connector, in engine compartment
- T60 60-pin connector
- T94 94-pin connector

- 200 Earth connection (screening), in engine compartment wiring harness
- 220 Earth connection (sender earth), in engine wiring harness
- B537 Connection 28, in main wiring harness
- D141 Connection (5V) in engine prewiring harness



F378	Oil pressure switch for reduced oil pressure
G31	Charge pressure sender
G186	Throttle valve drive for electric throttle
G187	Throttle valve drive angle sender 1 for electric throttle
G188	Throttle valve drive angle sender 2 for electric throttle
G336	Intake manifold flap potentiometer
J338	Throttle valve module
J623	Engine control unit
T6d	6-pin connector
T6s	6-pin connector, in engine compartment
T14	14-pin connector, near front left longitudinal member
T60	60-pin connector
T94	94-pin connector
220	Earth connection (sender earth), in engine wiring harness
D130	Connection 28 in engine compartment wiring harness
D174	Connection 2 (5V) in engine prewiring harness
*	gradual introduction
*2	Only models with no US equipment
*3	Gradually discontinued

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



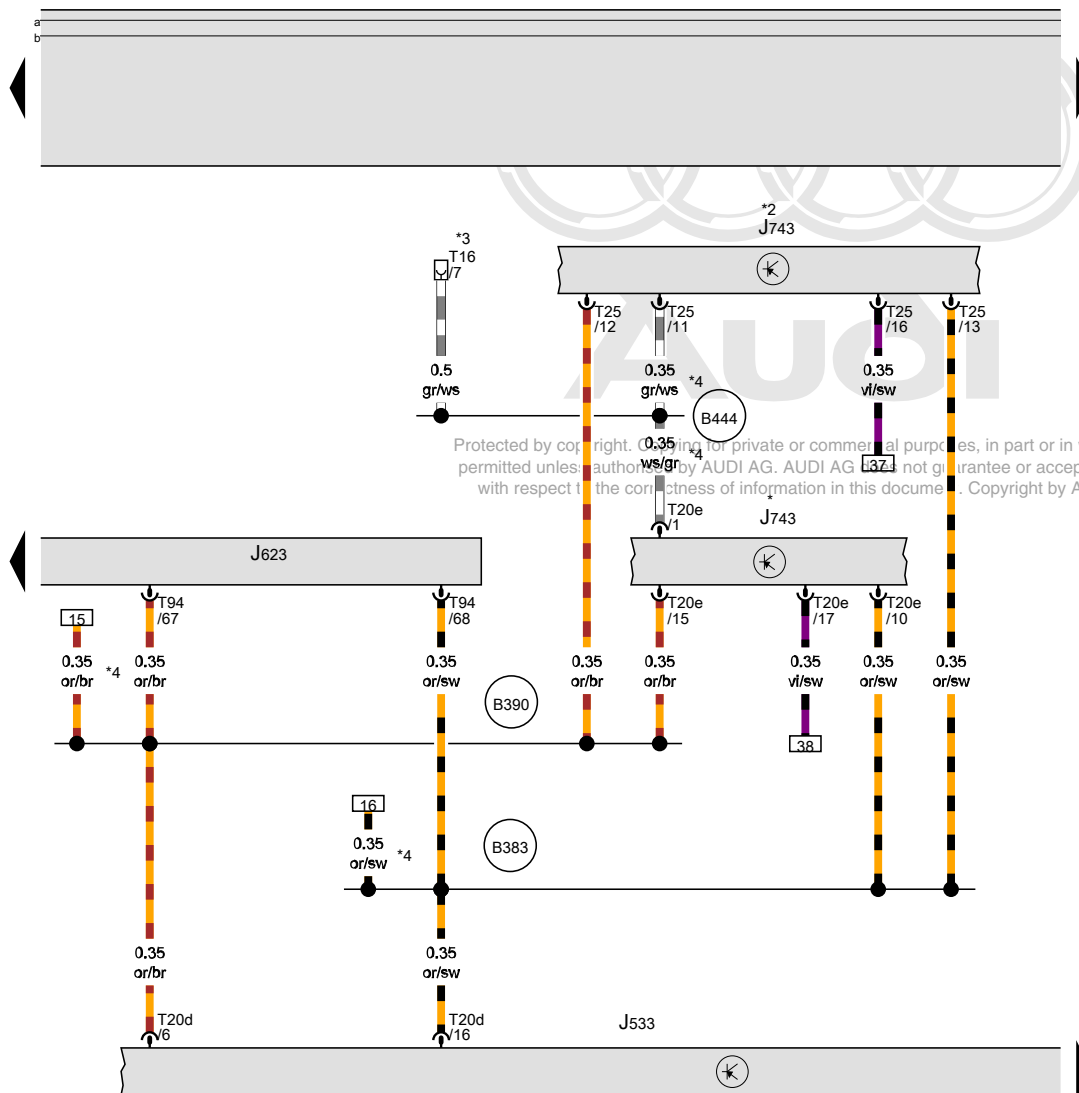
Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 with output stage, Ignition coil 4 with output stage

- J623 Engine control unit
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- P Spark plug connector
- Q Spark plugs
- SB14 Fuse 14 on fuse holder B
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector

- 15 Earth point, on cylinder head
- 281 Earth point 1, engine prewiring harness
- 283 Earth point 2, engine prewiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- D189 Connection (87a) in engine prewiring harness

- * gradual introduction
- *2 Gradually discontinued

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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



Data bus diagnostic interface, Engine control unit, Mechatronic unit for dual clutch gearbox

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector
- T20d 20-pin connector
- T20e 20-pin connector
- T25 25-pin connector
- T94 94-pin connector

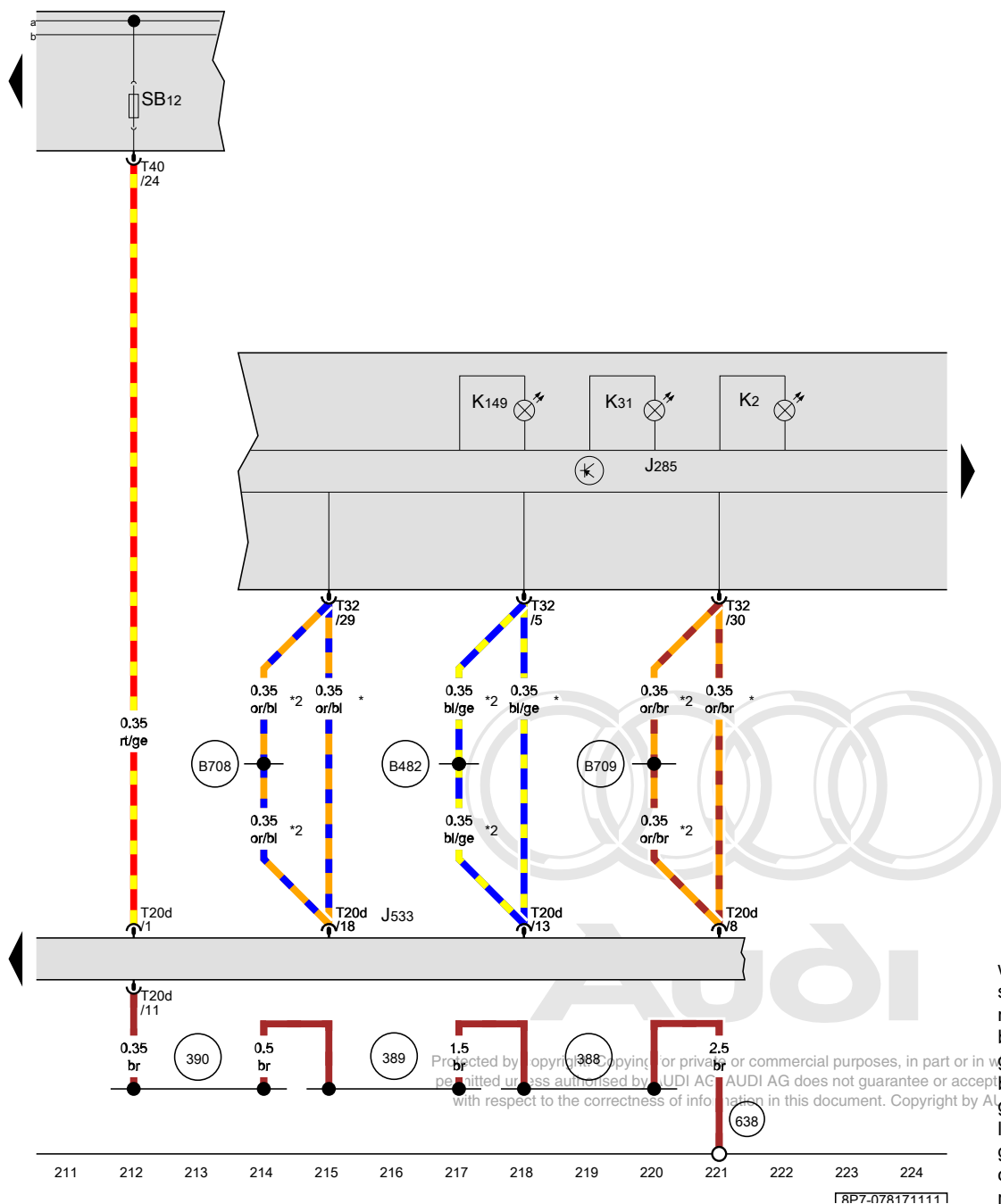
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness

- * Only models with dual clutch gearbox 02E
- *2 Only models with dual clutch gearbox 0AM
- *3 Diagnostic connection
- *4 If fitted

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- sw = black
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- bl = blue
- gr = grey
- li = purple
- ge = yellow
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- rs = pink

197 198 199 200 201 202 203 204 205 206 207 208 209 210

[RP7-07R1R1111]



Control unit in dash panel insert, Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

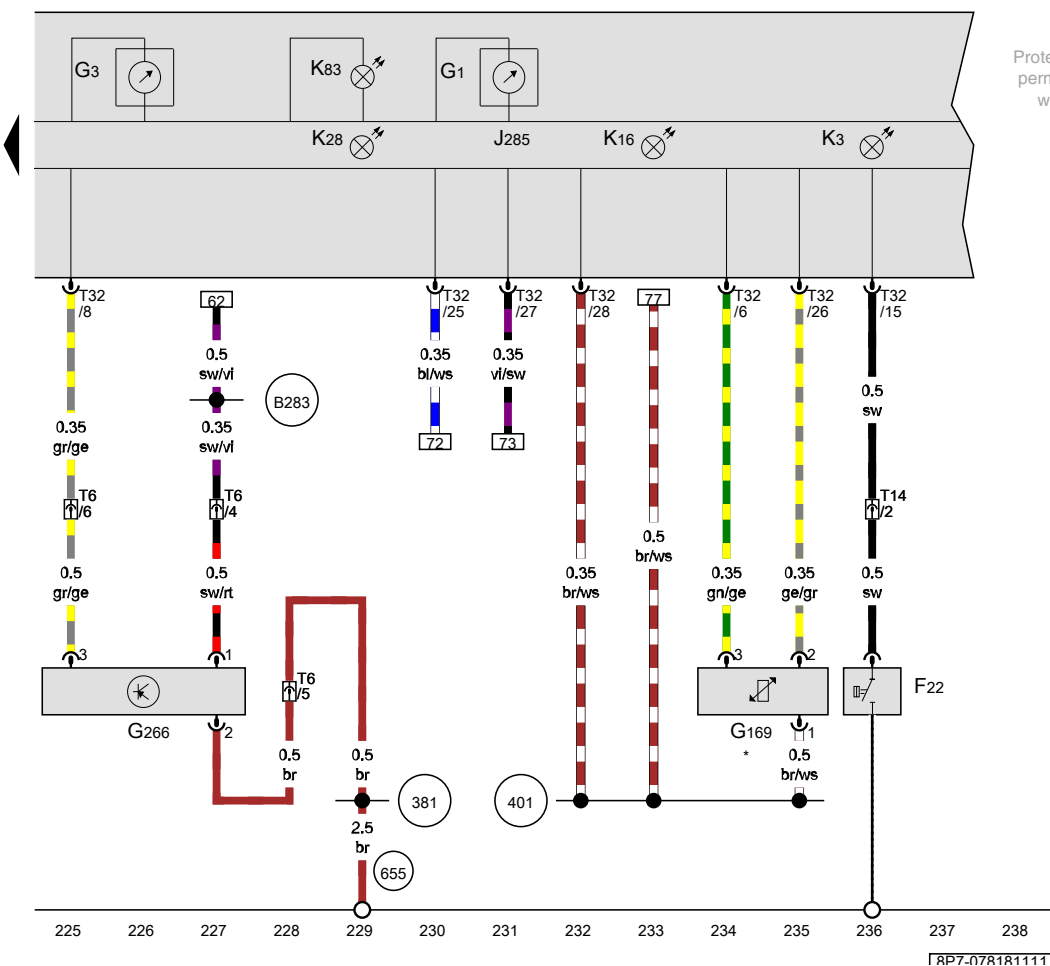
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, on right A-pillar
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * gradual introduction
- *2 Gradually discontinued

Oil pressure switch, Fuel gauge sender 2, Oil level and oil temperature sender, Control unit in dash panel insert

- F22 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G169 Fuel gauge sender 2
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, near front left longitudinal member
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector

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- 381 Earth connection 16, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 655 Earth point, on left headlight
- B283 Positive connection 7 (15a) in main wiring harness
- * Only models with all-wheel drive



1.6l diesel engine , CAYC

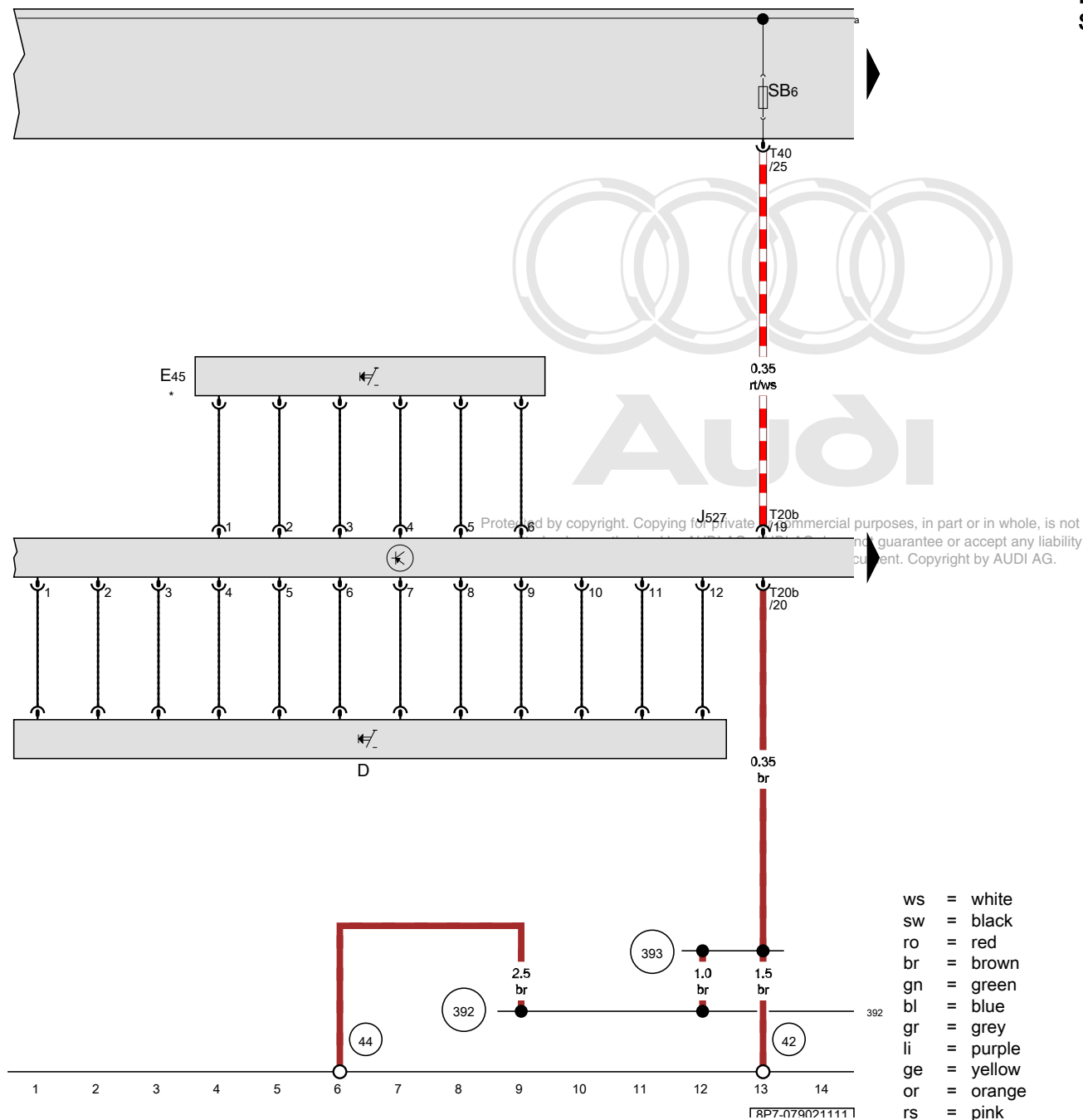
From May 2009

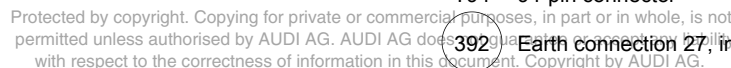


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Ignition/starter switch, Cruise control system switch,
Steering column electronics control unit

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- * Only models with cruise control system (CCS)

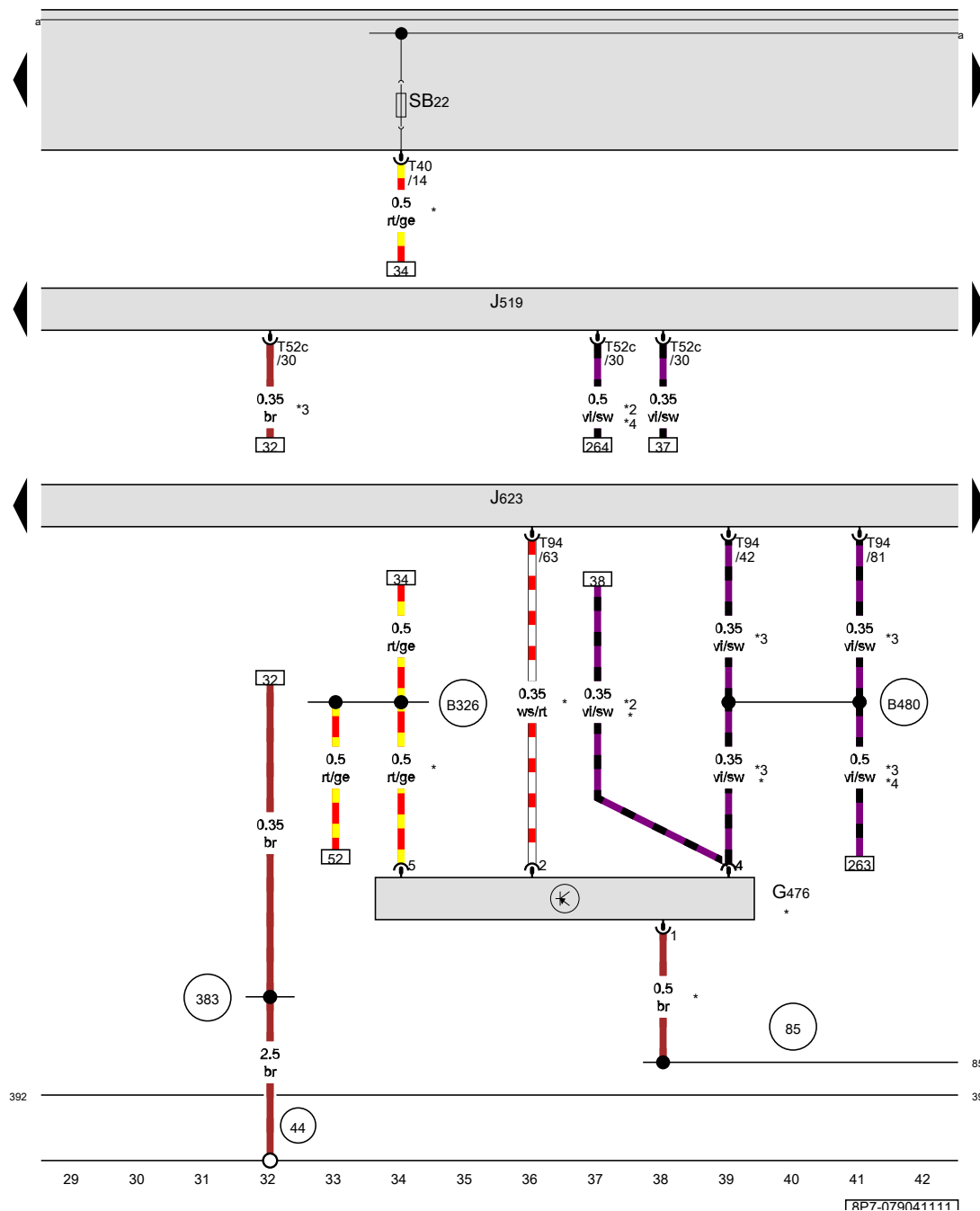




A	Battery
E693	Start/Stop operation button
J519	Onboard supply control unit
J527	Steering column electronics control unit
J623	Engine control unit
J906	Starter relay 1
J907	Starter relay 2
T6z	6-pin connector
T10ab	10-pin connector
T20b	20-pin connector
T52b	52-pin connector
T52c	52-pin connector
T94	94-pin connector

- * Only models with no start/stop system
- *2 Only models with start/stop system
- *3 Only models with cruise control system (CCS)
- *4 see applicable current flow diagram for battery in engine compartment
- *5 Gradually discontinued
- *6 gradual introduction
- *7 If fitted

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gn = green
bl = blue
gr = grey
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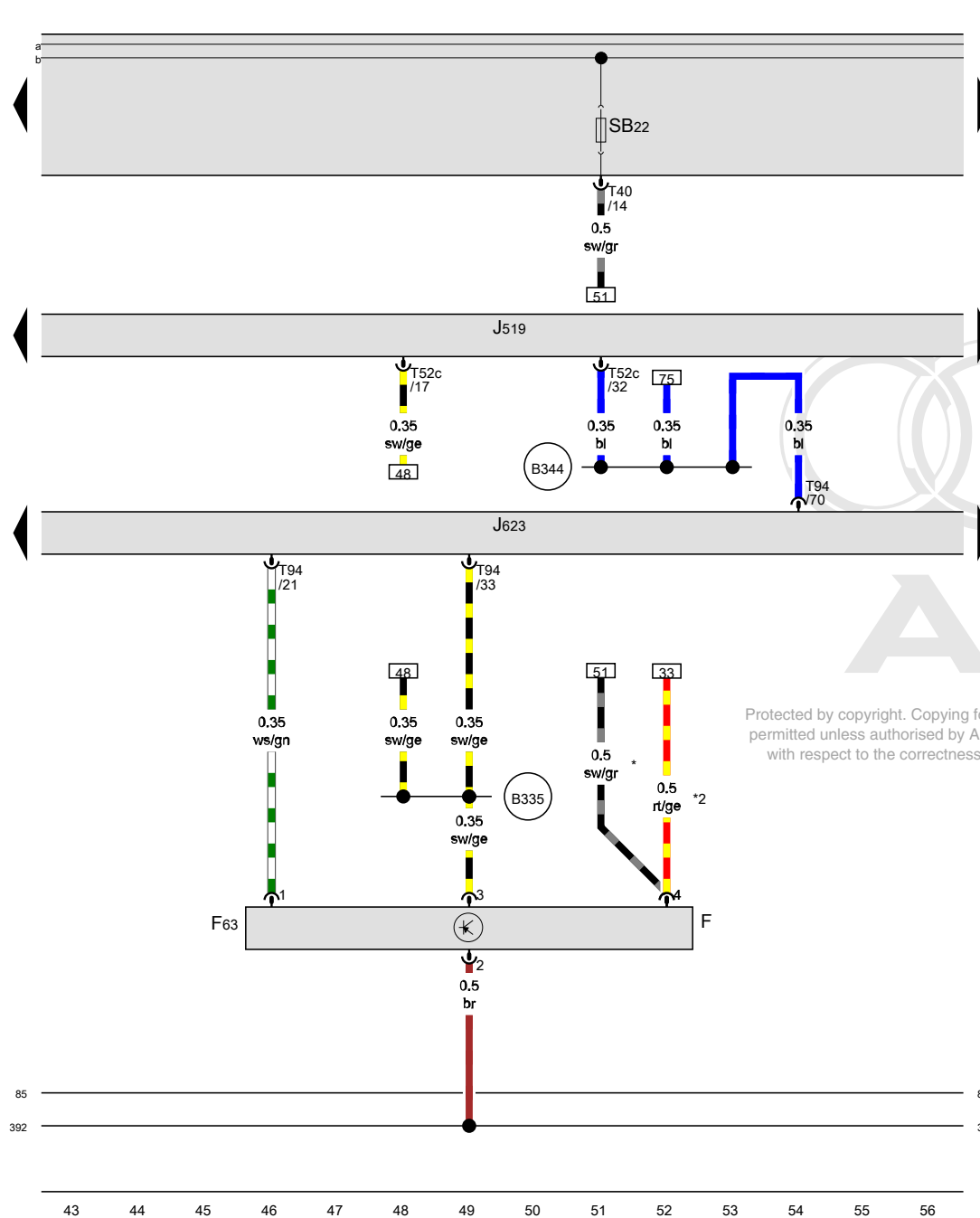
Clutch position sender, Onboard supply control unit, Engine control unit

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 383 Earth connection 18, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B326 Positive connection 12 (30a) in main wiring harness
- B480 Connection 16, in main wiring harness

- * Only models with manual gearbox
- *2 Only models with no start/stop system
- *3 Only models with start/stop system
- *4 Only models with automatic gearbox

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Brake light switch, Brake pedal switch, Onboard supply control unit, Engine control unit

F	Brake light switch
F63	Brake pedal switch
J519	Onboard supply control unit
J623	Engine control unit
SB22	Fuse 22 on fuse holder B
T40	40-pin connector
T52c	52-pin connector
T94	94-pin connector

85 Earth connection 1, in engine compartment wiring harness

392 Earth connection 27, in main wiring harness

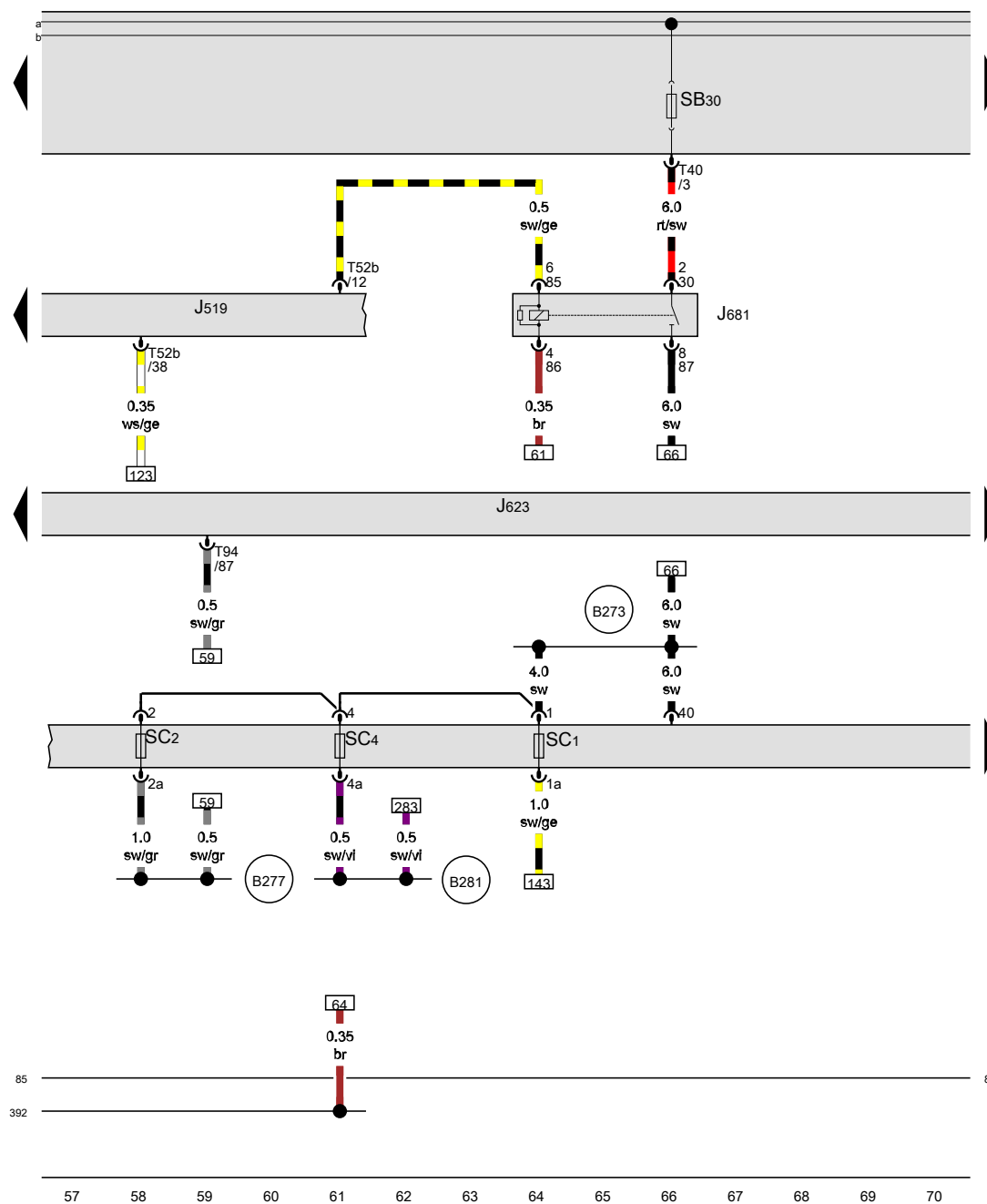
(B335) Connection 1 (54), in main wiring harness

(B344) Connection 1 (61), in main wiring harness

* Only models with automatic gearbox
*2 Only models with manual gearbox

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**Onboard supply control unit, Engine control unit, Terminal
15 voltage supply relay 2**

- | | |
|------|------------------------------------|
| J519 | Onboard supply control unit |
| J623 | Engine control unit |
| J681 | Terminal 15 voltage supply relay 2 |
| SC1 | Fuse 1 on fuse holder C |
| SC2 | Fuse 2 on fuse holder C |
| SC4 | Fuse 4 on fuse holder C |
| SB30 | Fuse 30 on fuse holder B |
| T40 | 40-pin connector |
| T52b | 52-pin connector |
| T94 | 94-pin connector |

85 Earth connection 1, in engine compartment wiring harness

(392) Earth connection 27, in main wiring harness

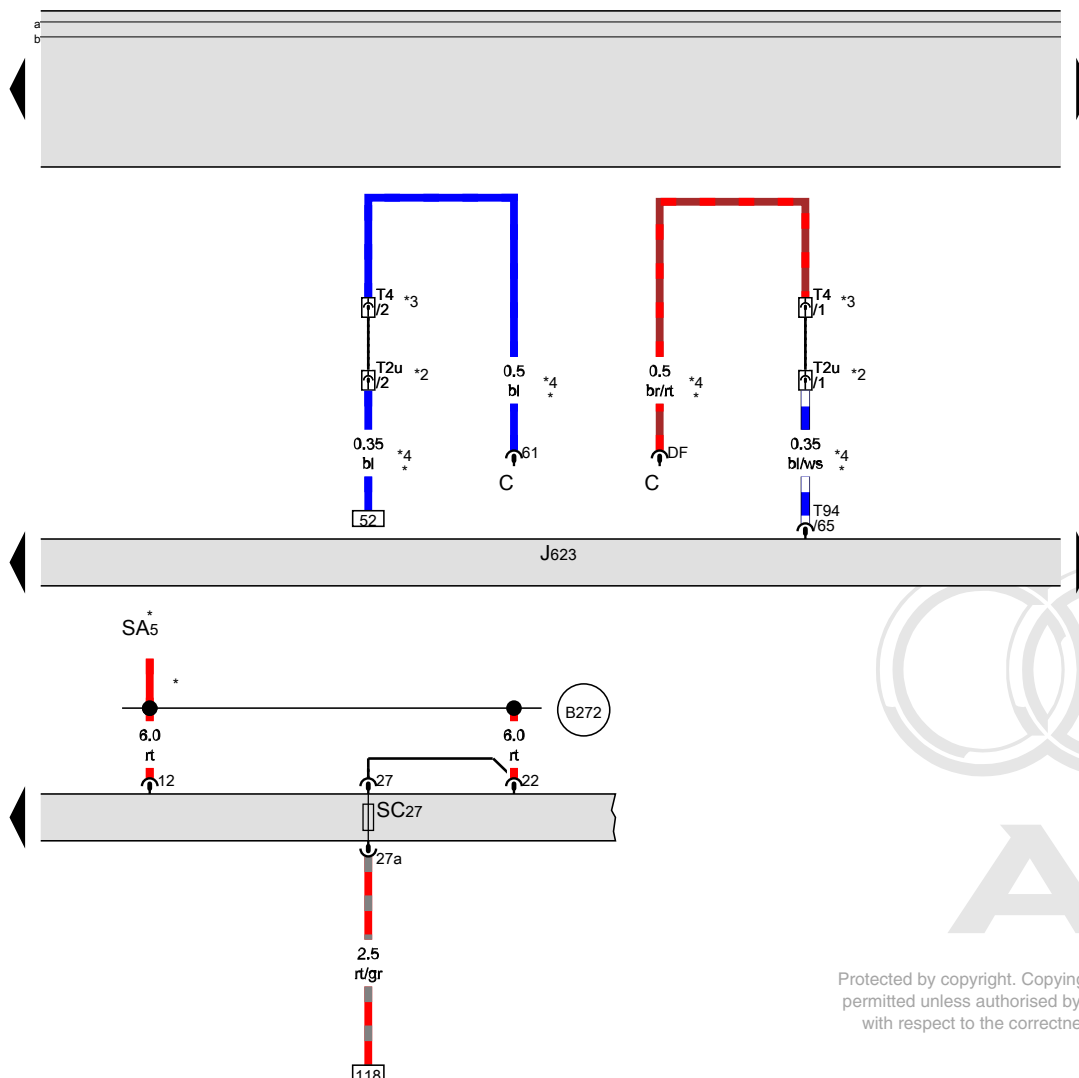
(B273) Positive connection (15), in main wiring harness

(B277) Positive connection 1 (15a) in main wiring harness

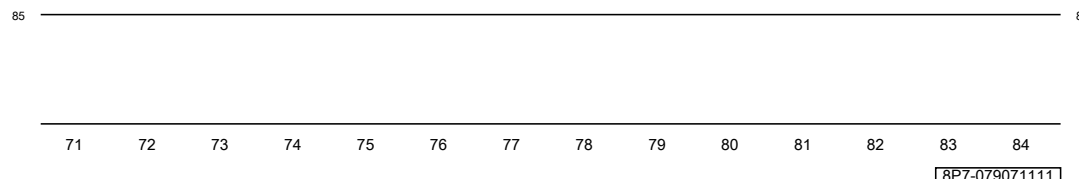
(B281) Positive connection 5 (15a) in main wiring harness

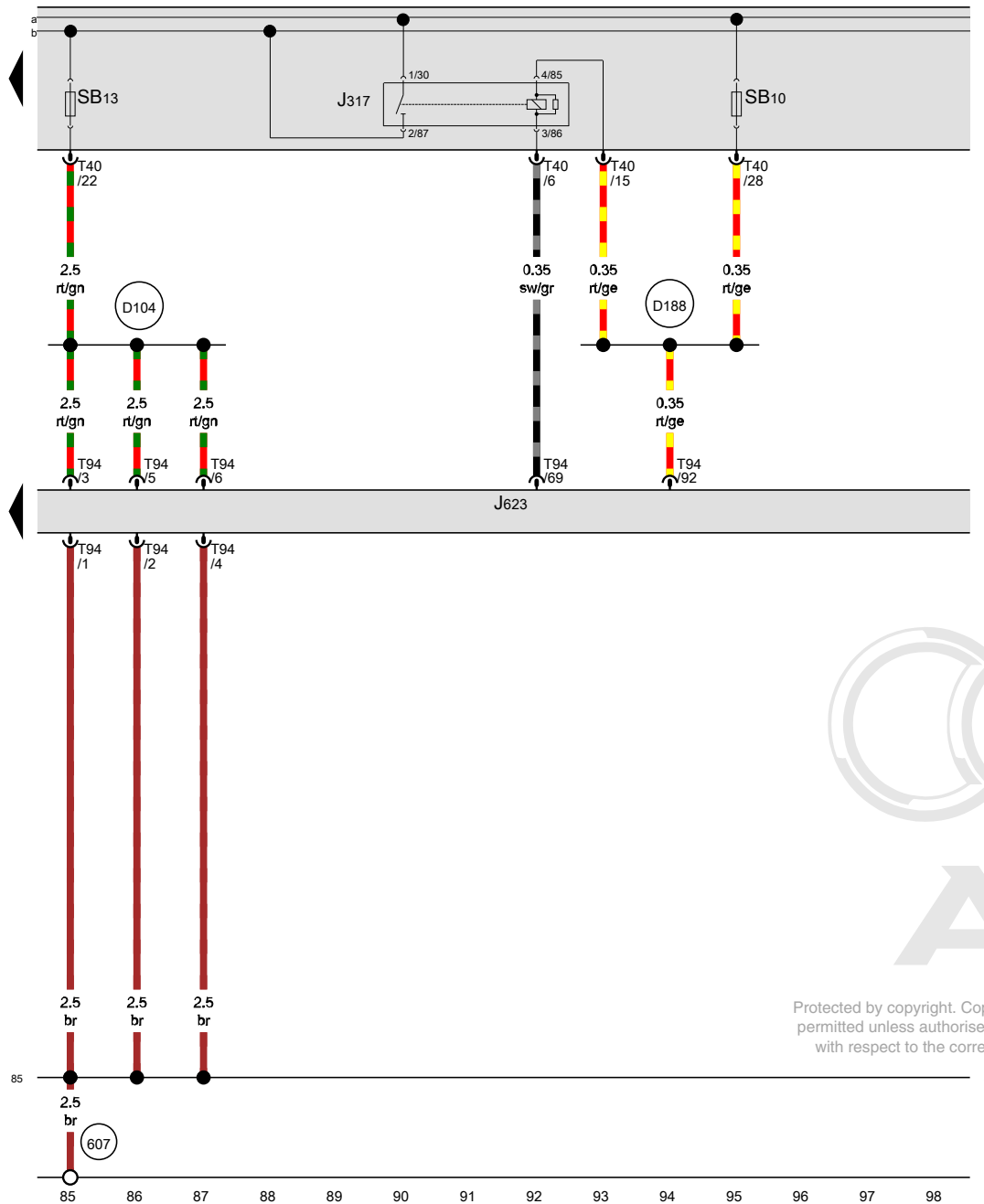
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Terminal 30 voltage supply relay, Engine control unit

J317 Terminal 30 voltage supply relay

J623 Engine control unit

SB10 Fuse 10 on fuse holder B

SB13 Fuse 13 on fuse holder B

T40 40-pin connector

T94 94-pin connector

(85) Earth connection 1, in engine compartment wiring harness

(607) Earth point, on left in plenum chamber

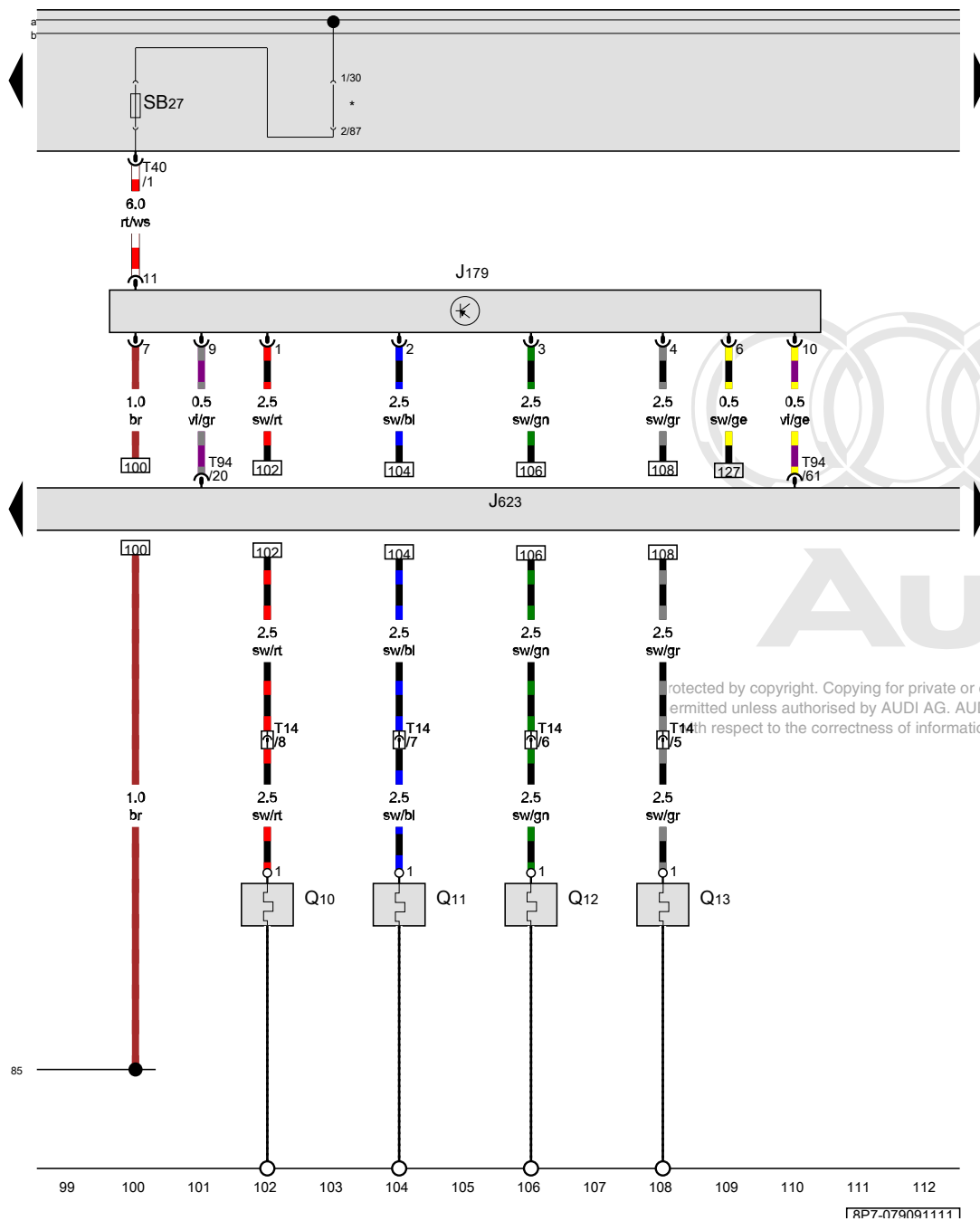
(D104) Positive connection 2 (30a), in engine compartment wiring harness

(D188) Positive connection 3 (30a), in engine compartment wiring harness



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[AP7-0790R1111]



Automatic glow period control unit, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- SB27 Fuse 27 on fuse holder B
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T94 94-pin connector
- 85 Earth connection 1, in engine compartment wiring harness
- * Contact bridge, only models with diesel engine

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Fuel gauge sender, Fuel system pressurisation pump, Fuel pump relay, Electric fuel pump 2 relay, Engine control unit

- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- J623 Engine control unit
- T10aa 10-pin connector, on left in engine compartment
- T60 60-pin connector
- T94 94-pin connector

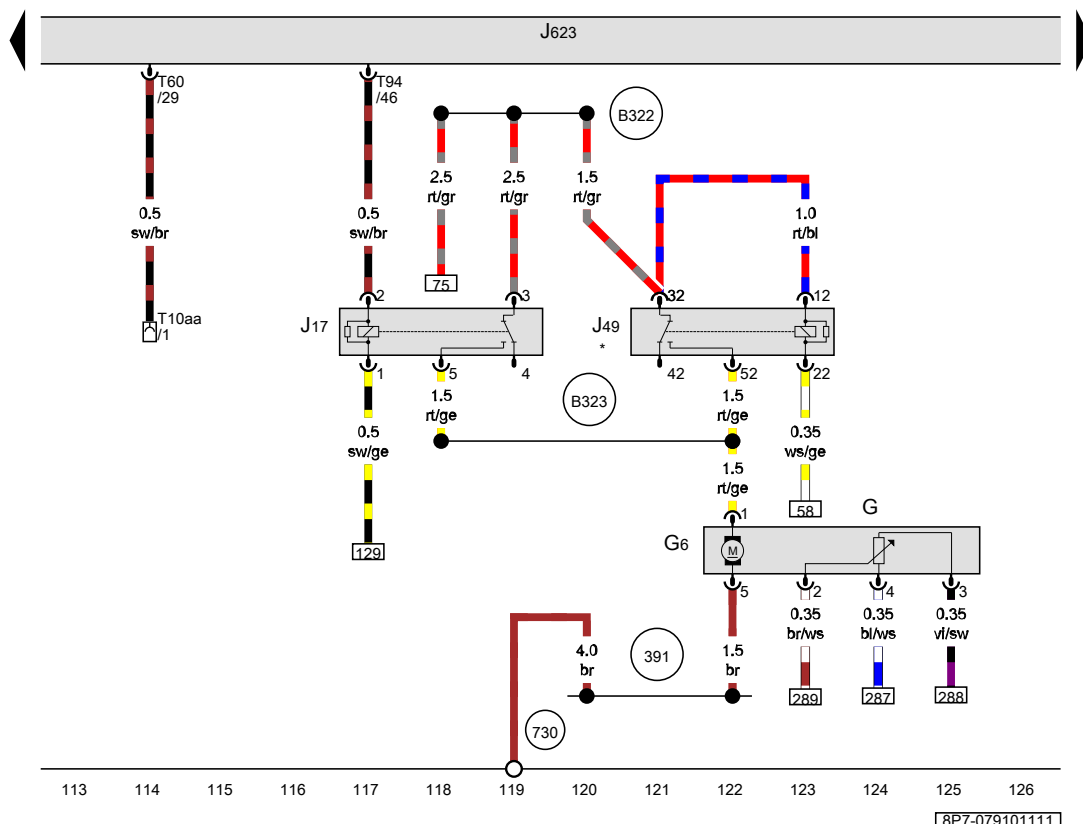
391 Earth connection 26, in main wiring harness

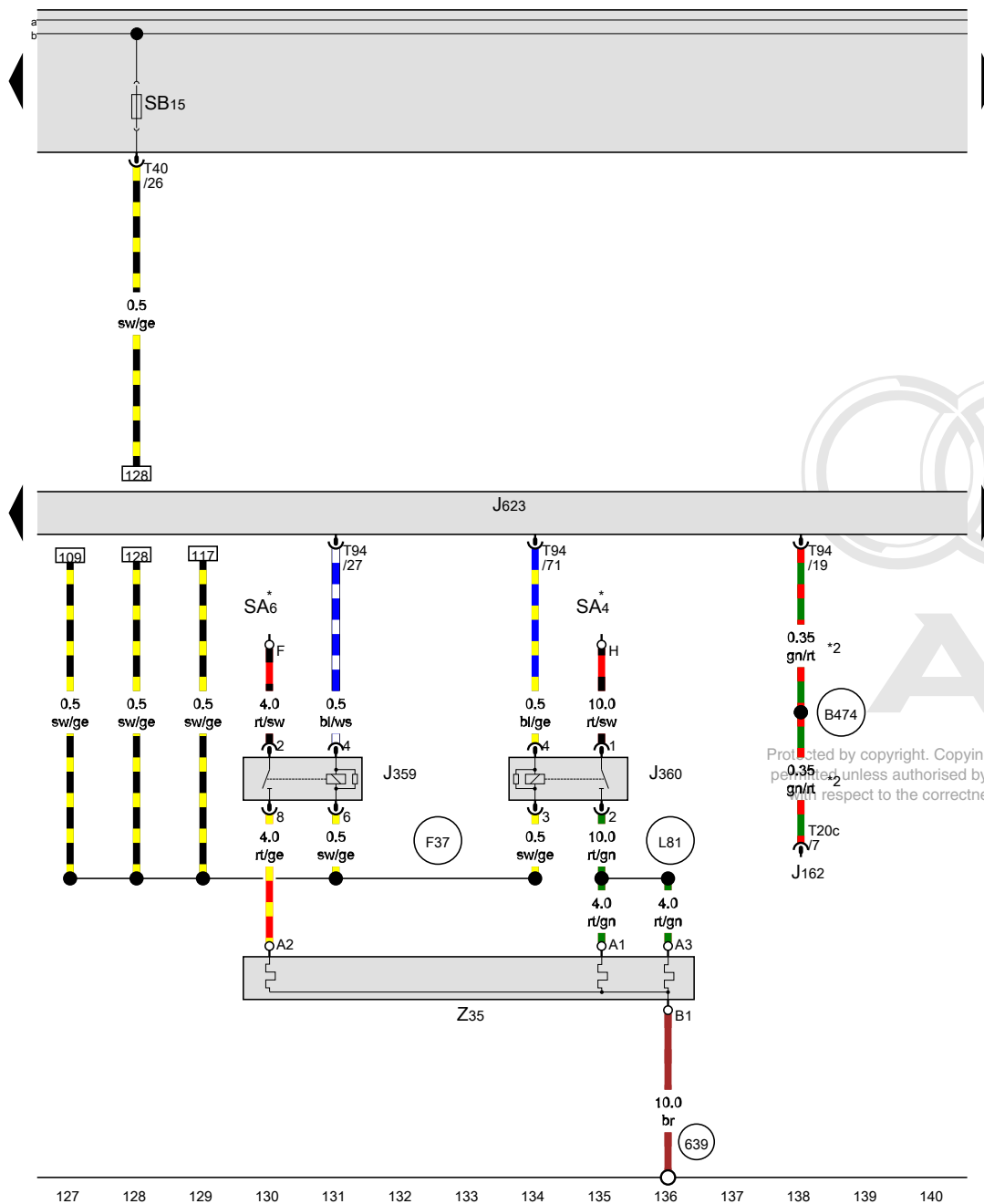
730 Earth point 1, on right rear wheel housing

B322 Positive connection 8 (30a) in main wiring harness

B323 Positive connection 9 (30a) in main wiring harness

* Only models with auxiliary heating





Low heat output relay, High heat output relay, Engine control unit, Auxiliary air heater element

- J162 Heater control unit
- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine control unit
- SA4 Fuse 4 in fuse holder A
- SA6 Fuse 6 in fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector
- T40 40-pin connector
- T94 94-pin connector
- Z35 Auxiliary air heater element
- 639 Earth point, left A-pillar
- B474 Connection 10, in main wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- L81 Connection in supplementary heater wiring harness

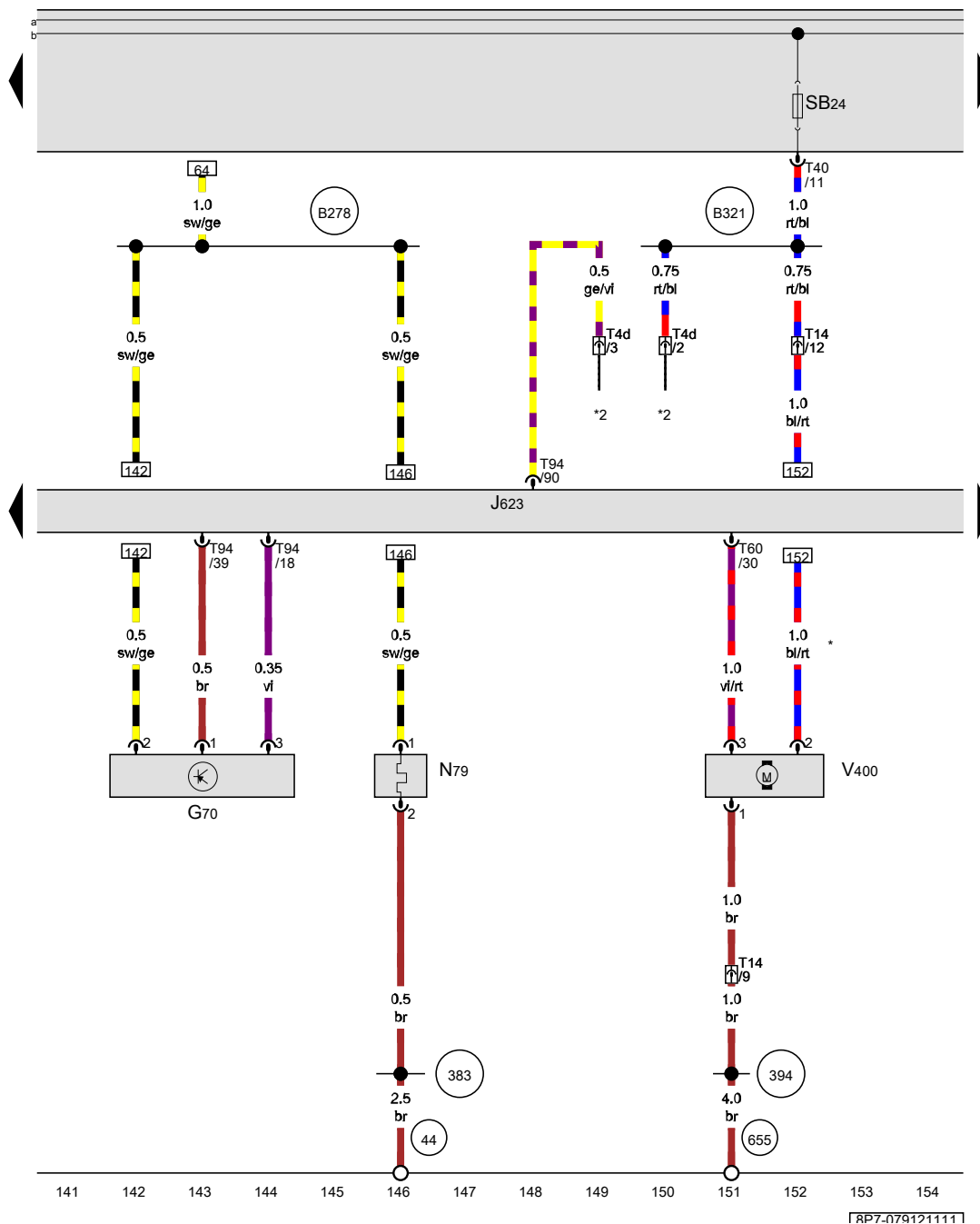
* see applicable current flow diagram for battery in engine compartment

*2 see applicable current flow diagram for manually controlled heater

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[AP7-079111111]

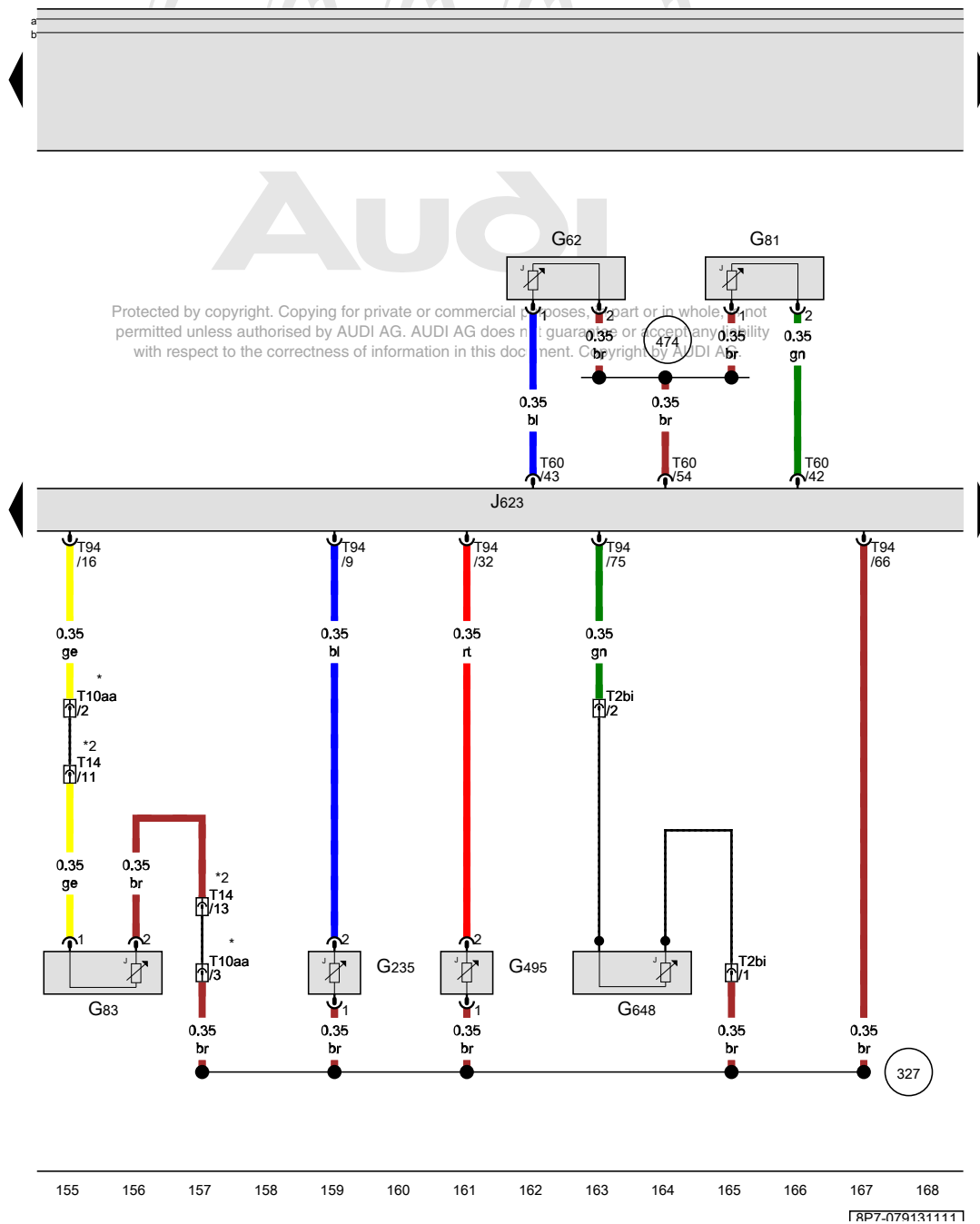


Air mass meter, Engine control unit, Heater element for crankcase breather, Pump for exhaust gas recirculation cooler

- G70 Air mass meter
- J623 Engine control unit
- N79 Heater element for crankcase breather
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, near radiator fan
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V400 Pump for exhaust gas recirculation cooler
- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- B278 Positive connection 2 (15a) in main wiring harness
- B321 Positive connection 7 (30a) in main wiring harness
- * Cross section depends on equipment
- *2 see applicable current flow diagram for radiator fan

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Coolant temperature sender, Fuel temperature sender, Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

G62 Coolant temperature sender

G81 Fuel temperature sender

G83 Radiator outlet coolant temperature sender

G235 Exhaust gas temperature sender 1

G495 Exhaust gas temperature sender 3

G648 Exhaust gas temperature sender 4

J623 Engine control unit

T2bi 2-pin connector

T10aa 10-pin connector, on left in engine compartment

T14 14-pin connector

T60 60-pin connector

T94 94-pin connector

327 Earth connection (sender earth), in engine compartment wiring harness

474 Earth connection (sender earth) in engine prewiring harness

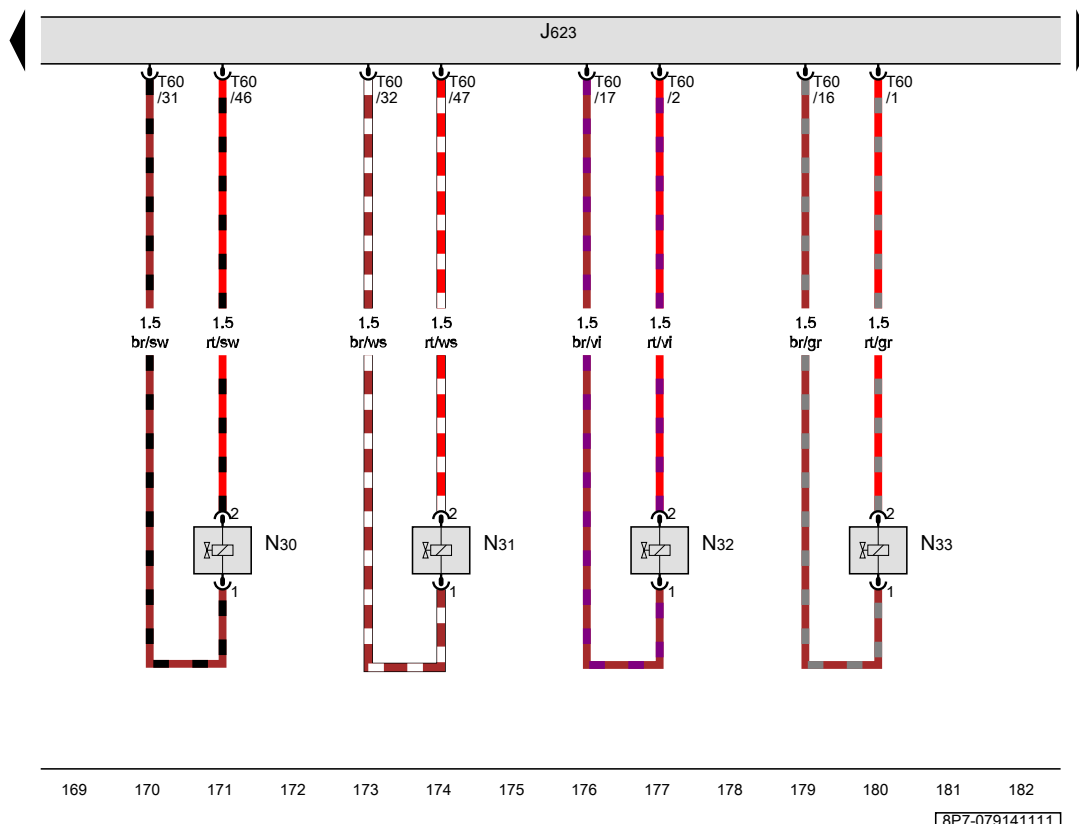
* Up to April 2011

*2 From May 2011

Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

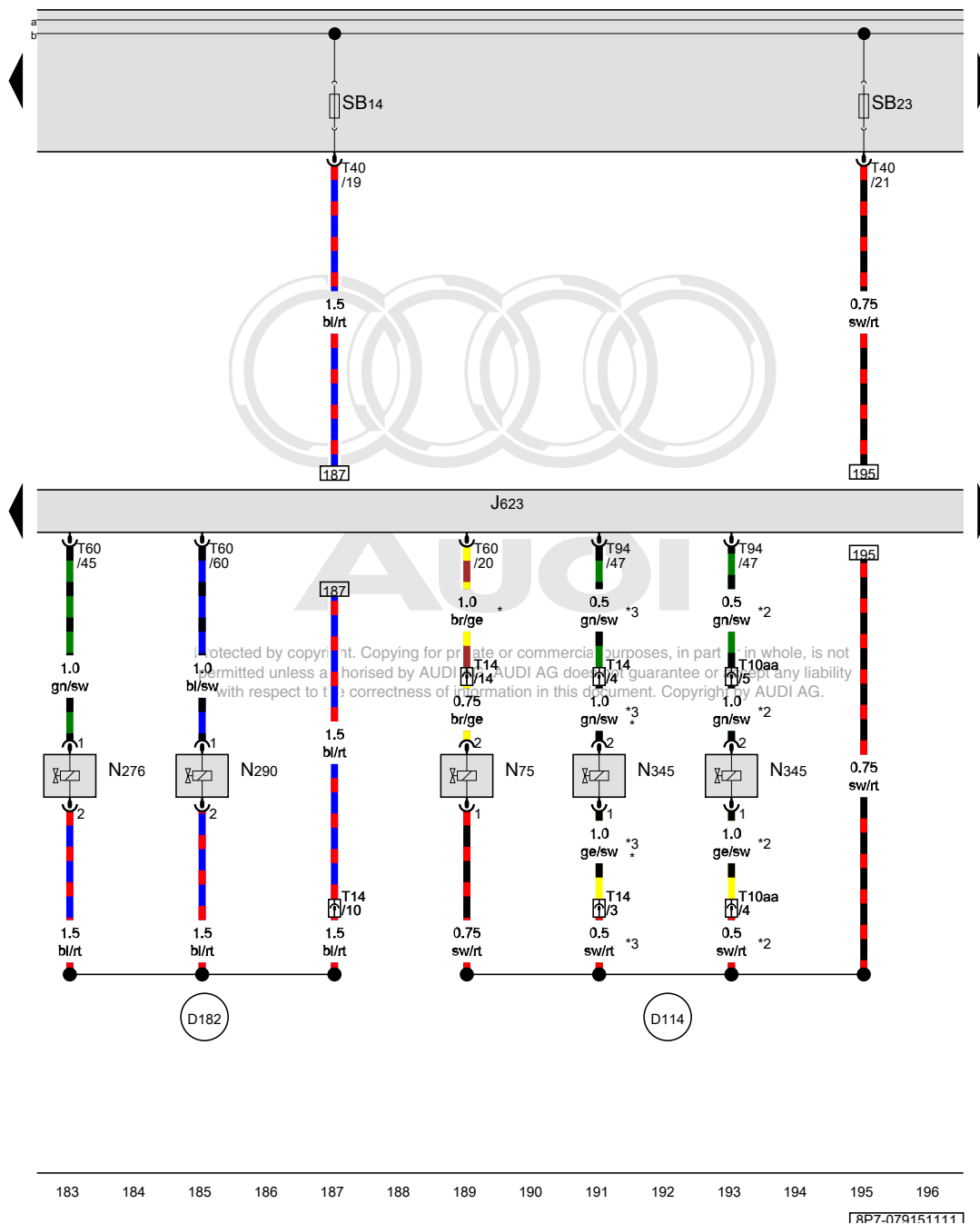
J623 Engine control unit
N30 Injector, cylinder 1
N31 Injector, cylinder 2
N32 Injector, cylinder 3
N33 Injector, cylinder 4
T60 60-pin connector

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AP7-079141111



Engine control unit, Charge pressure control solenoid valve, Fuel pressure regulating valve, Fuel metering valve, Exhaust gas recirculation cooler changeover valve

- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N276 Fuel pressure regulating valve
- N290 Fuel metering valve
- N345 Exhaust gas recirculation cooler changeover valve
- SB14 Fuse 14 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T10aa 10-pin connector, on left in engine compartment
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector

D114 Connection 12 in engine compartment wiring harness

D182 Connection 3 (87a), in engine compartment wiring harness

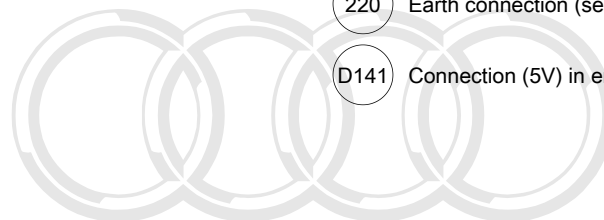
- * Cross section depends on equipment
- *2 Up to April 2011
- *3 From May 2011

Throttle valve potentiometer, Fuel pressure sender, Position sender for charge pressure positioner, Throttle valve module, Engine control unit

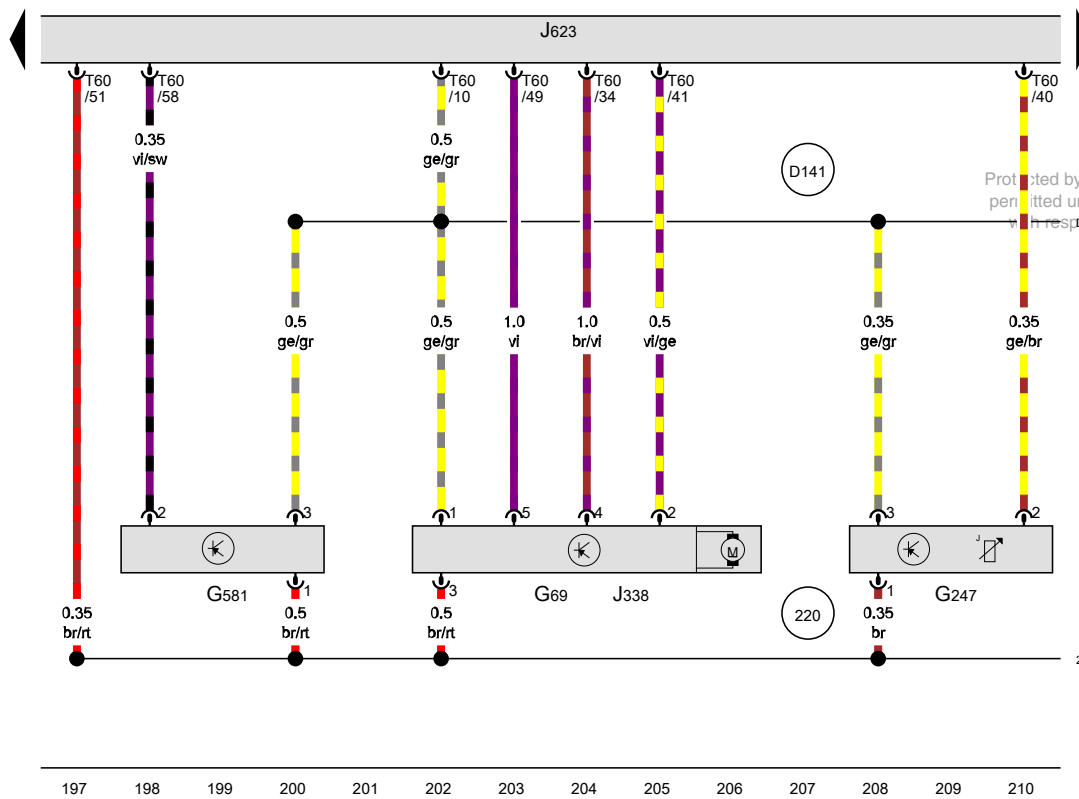
- G69 Throttle valve potentiometer
- G247 Fuel pressure sender
- G581 Position sender for charge pressure positioner
- J338 Throttle valve module
- J623 Engine control unit
- T60 60-pin connector

220 Earth connection (sender earth), in engine wiring harness

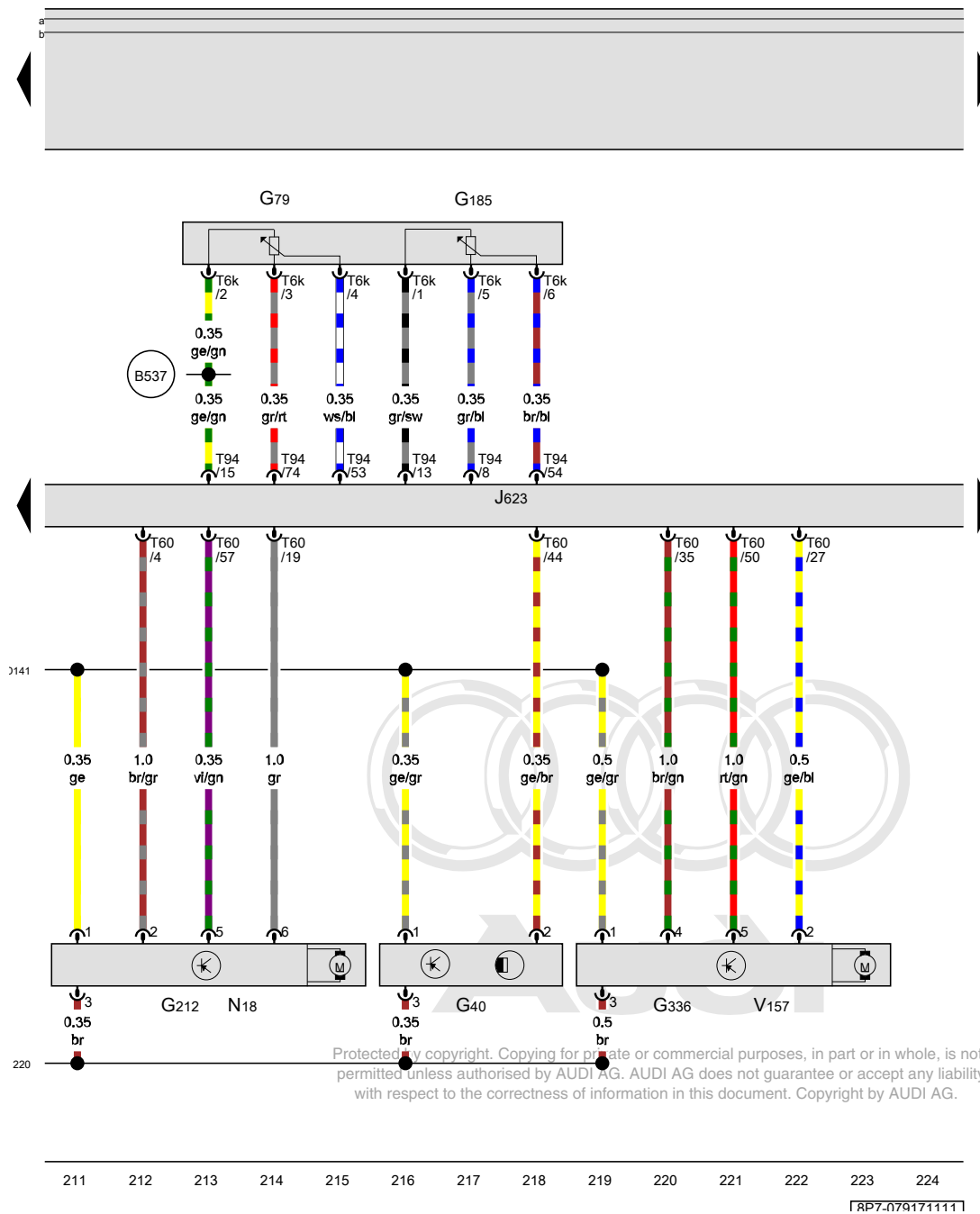
D141 Connection (5V) in engine prewiring harness



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RP7-079161111



Hall sender, Accelerator position sender, Accelerator position sender 2, Exhaust gas recirculation potentiometer, Intake manifold flap potentiometer, Engine control unit, Exhaust gas recirculation valve, Intake manifold flap motor

- G40 Hall sender
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- G212 Exhaust gas recirculation potentiometer
- G336 Intake manifold flap potentiometer
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- T6k 6-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V157 Intake manifold flap motor
- 220 Earth connection (sender earth), in engine wiring harness
- B537 Connection 28, in main wiring harness
- D141 Connection (5V) in engine prewiring harness

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gn = green
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gr = grey
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Charge pressure sender, Intake air temperature sender, Exhaust gas pressure sensor 1, Gearbox neutral position sender, Engine control unit

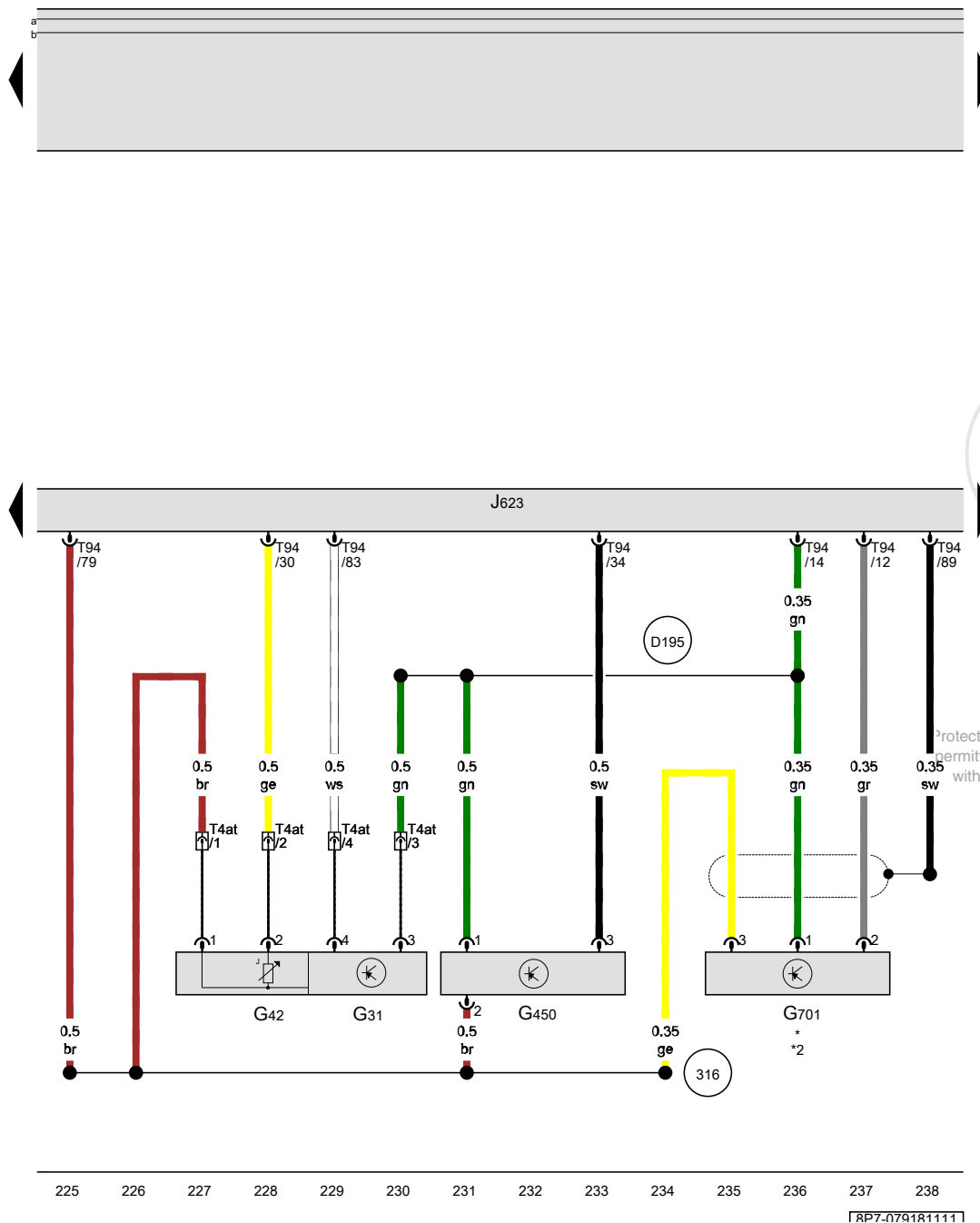
- G31 Charge pressure sender
- G42 Intake air temperature sender
- G450 Exhaust gas pressure sensor 1
- G701 Gearbox neutral position sender
- J623 Engine control unit
- T4at 4-pin connector, near starter
- T94 94-pin connector

316 Earth connection (sender earth 2) in engine wiring harness

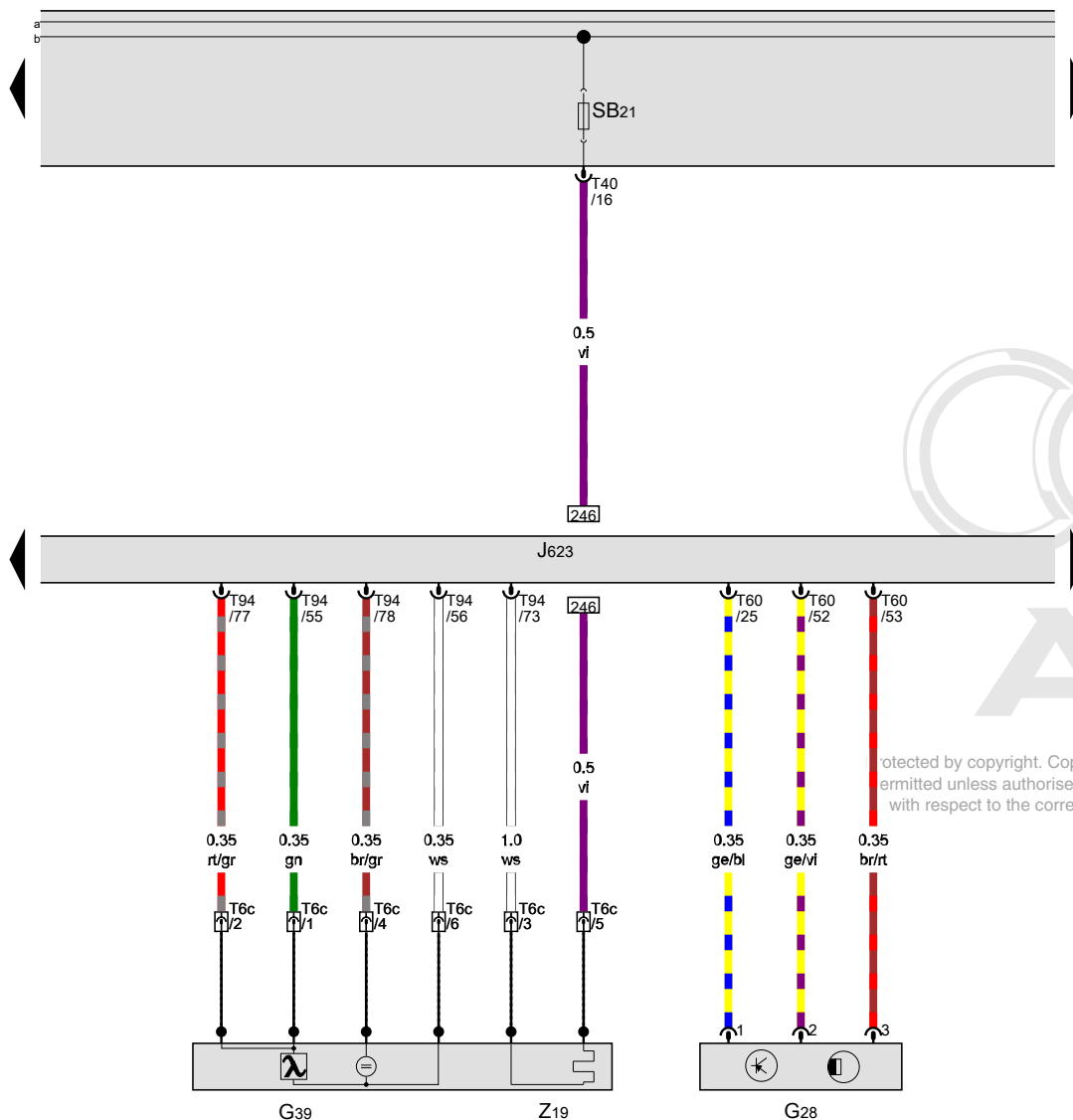
D195 Connection 1 (5V) in engine compartment wiring harness

* Only models with start/stop system

*2 Only models with manual gearbox



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- gn = green
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Engine speed sender, Lambda probe, Engine control unit, Lambda probe heater

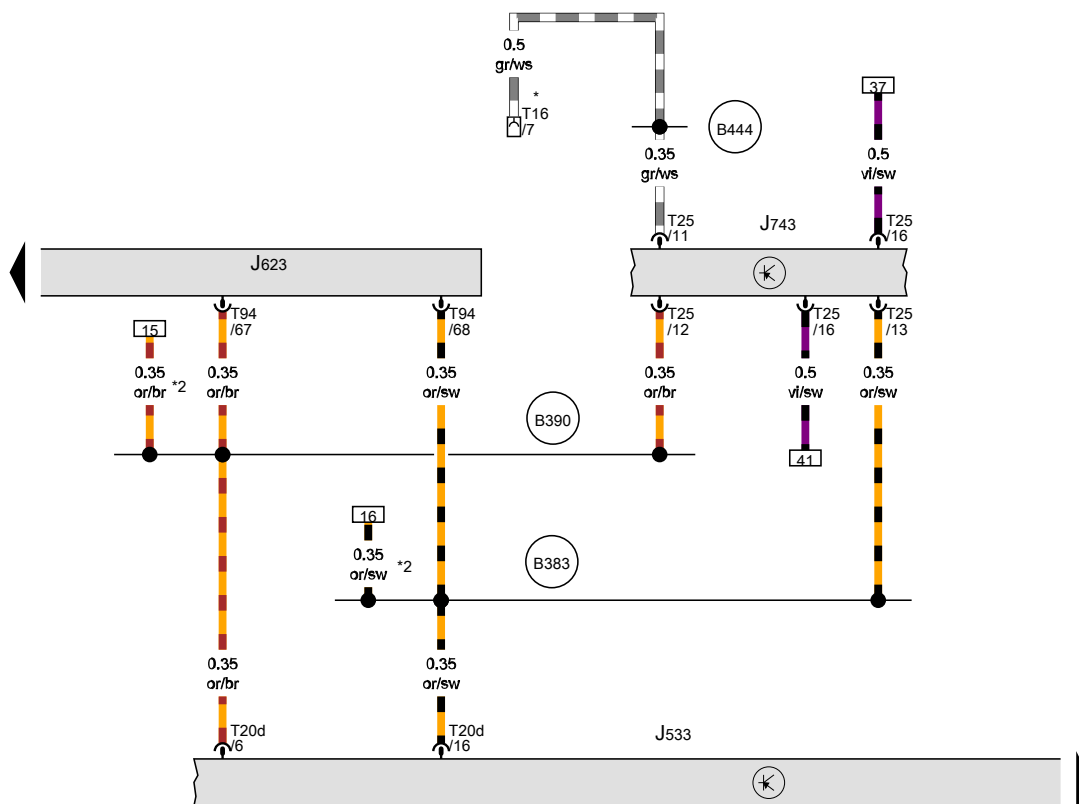
- G28 Engine speed sender
- G39 Lambda probe
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T6c 6-pin connector, on Lambda probe before catalytic converter
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater

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239 240 241 242 243 244 245 246 247 248 249 250 251 252

[RP7-079191111]



Data bus diagnostic interface, Engine control unit, Mechatronic unit for dual clutch gearbox

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector
- T20d 20-pin connector
- T25 25-pin connector
- T94 94-pin connector

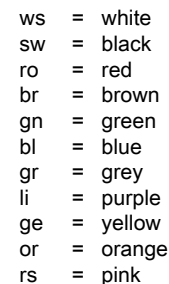
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness

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253 254 255 256 257 258 259 260 261 262 263 264 265 266

[RP7-079201111]



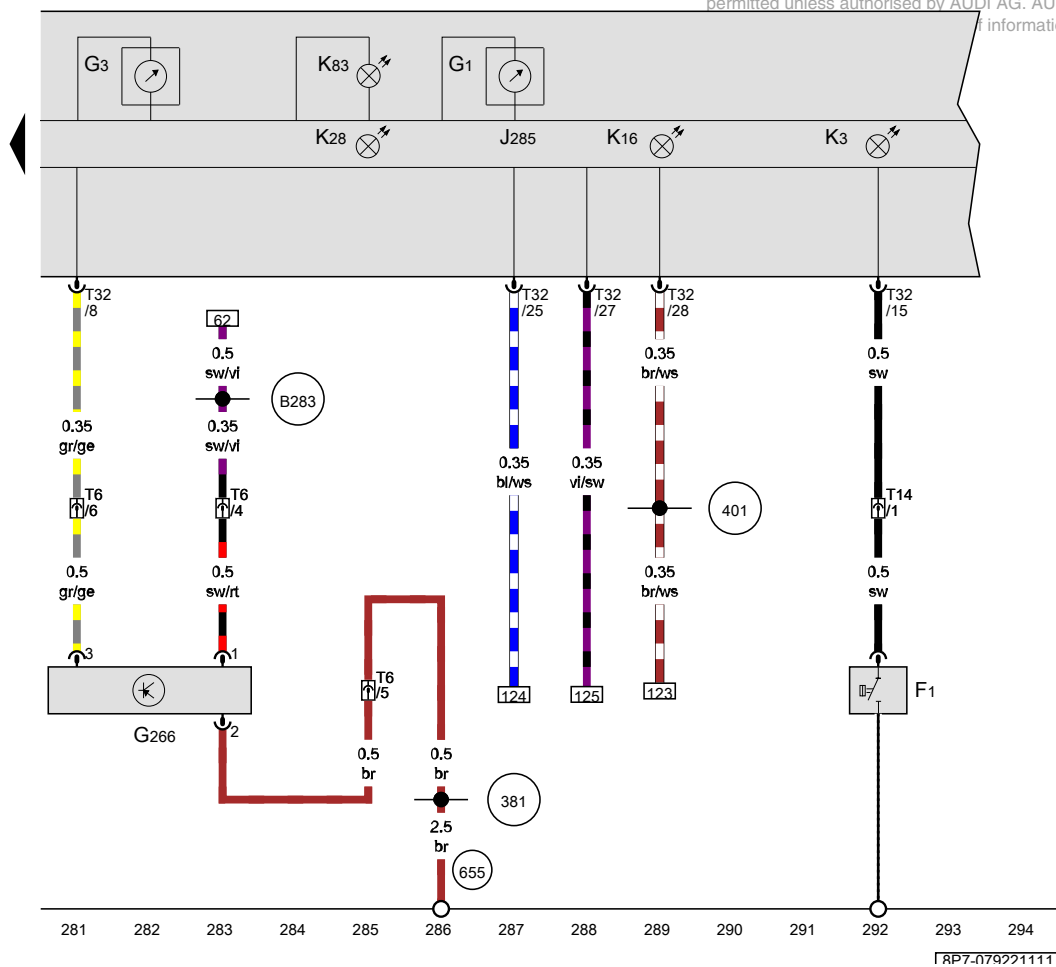
J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
K231	Diesel particulate filter warning lamp
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector
T32	32-pin connector
T40	40-pin connector

- | | |
|------|--|
| 388 | Earth connection 23, in main wiring harness |
| 389 | Earth connection 24, in main wiring harness |
| 390 | Earth connection 25, in main wiring harness |
| 638 | Earth point, on right A-pillar |
| B482 | Connection 18, in main wiring harness |
| B708 | Connection 1 (dash panel insert CAN bus high) in main wiring harness |
| B709 | Connection 1 (dash panel insert CAN bus low) in main wiring harness |
| * | gradual introduction |
| *2 | Gradually discontinued |

Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, near front left longitudinal member
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector

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- 381 Earth connection 16, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 655 Earth point, on left headlight
- B283 Positive connection 7 (15a) in main wiring harness



1.6 l - Fuel injection engine (75 kW - Simos - 4 cylinder), engine code BSE

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

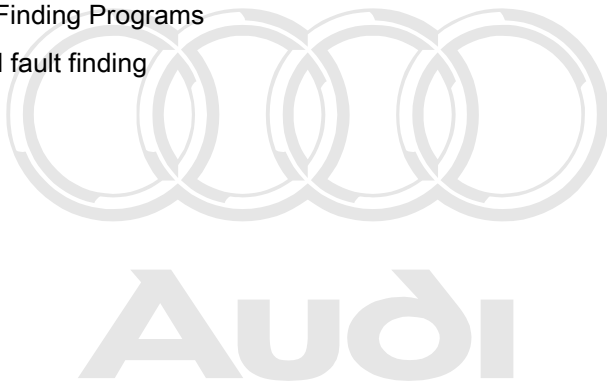
- ◆ Earth connections

⇒ List of Fitting Locations!

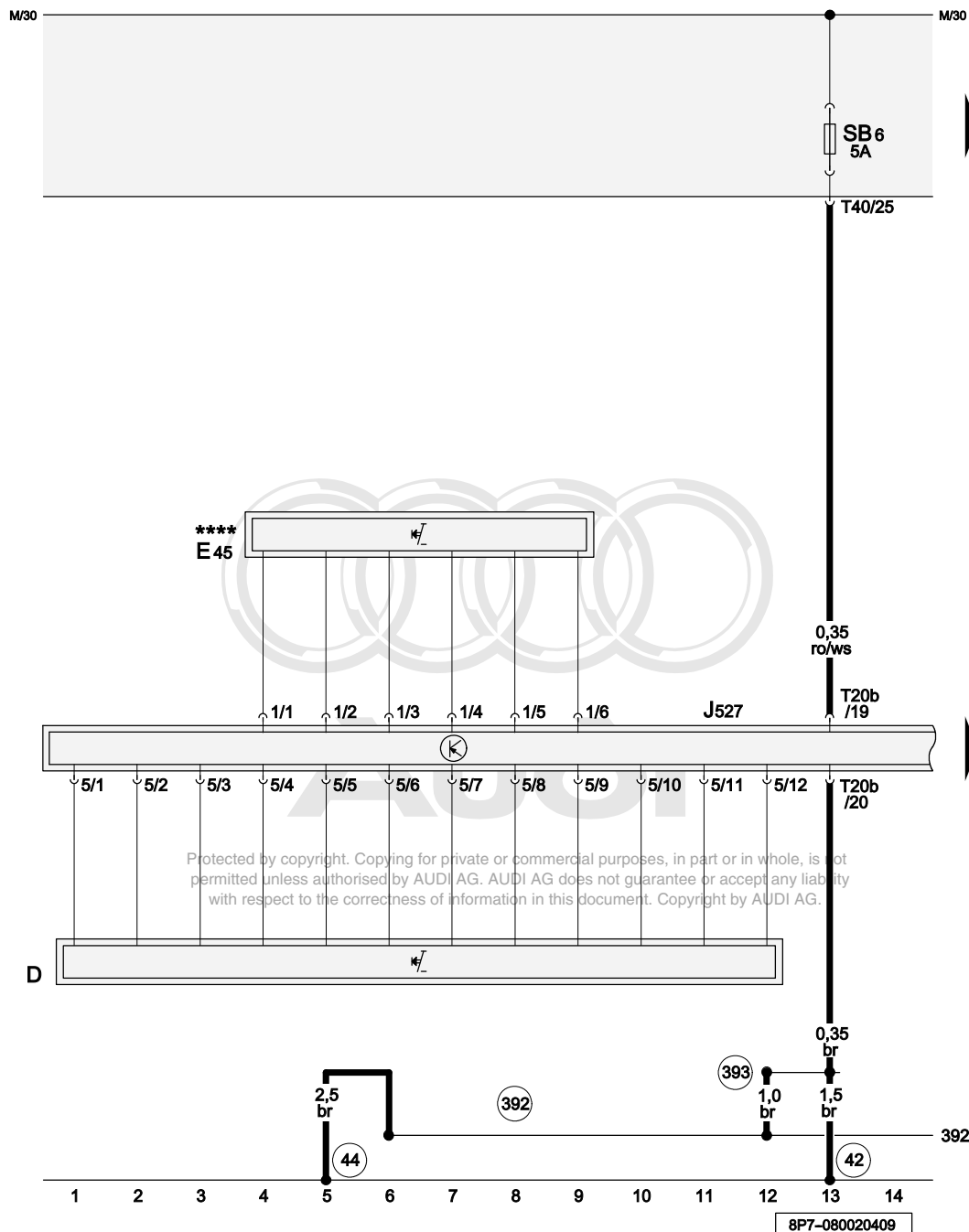
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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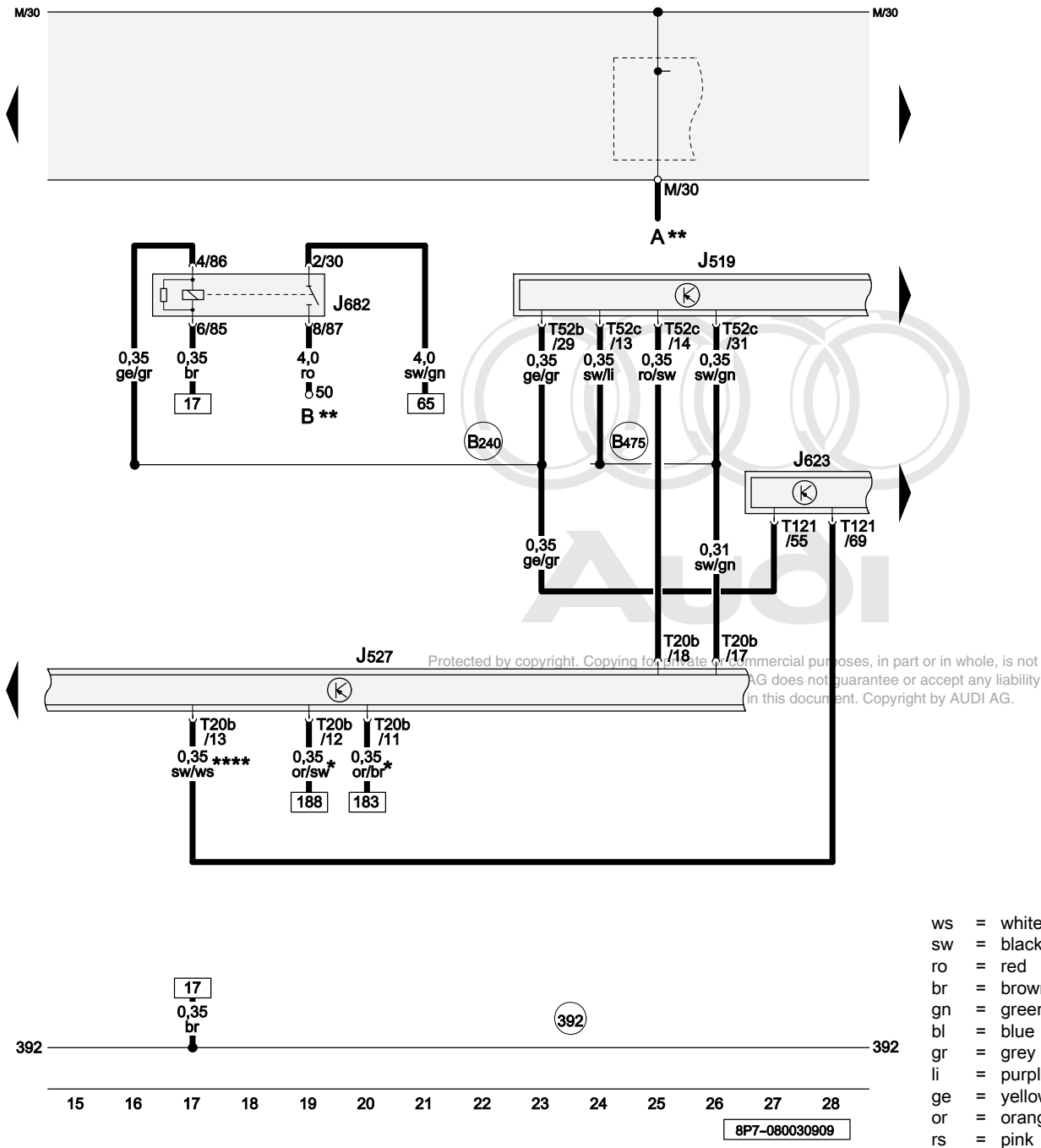
Cruise control system switch, ignition/starter switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness

**** for models with cruise control system only

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



Electronics box supply, terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- T20b 20-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)
- T121 121-pin connector, black, on engine control unit

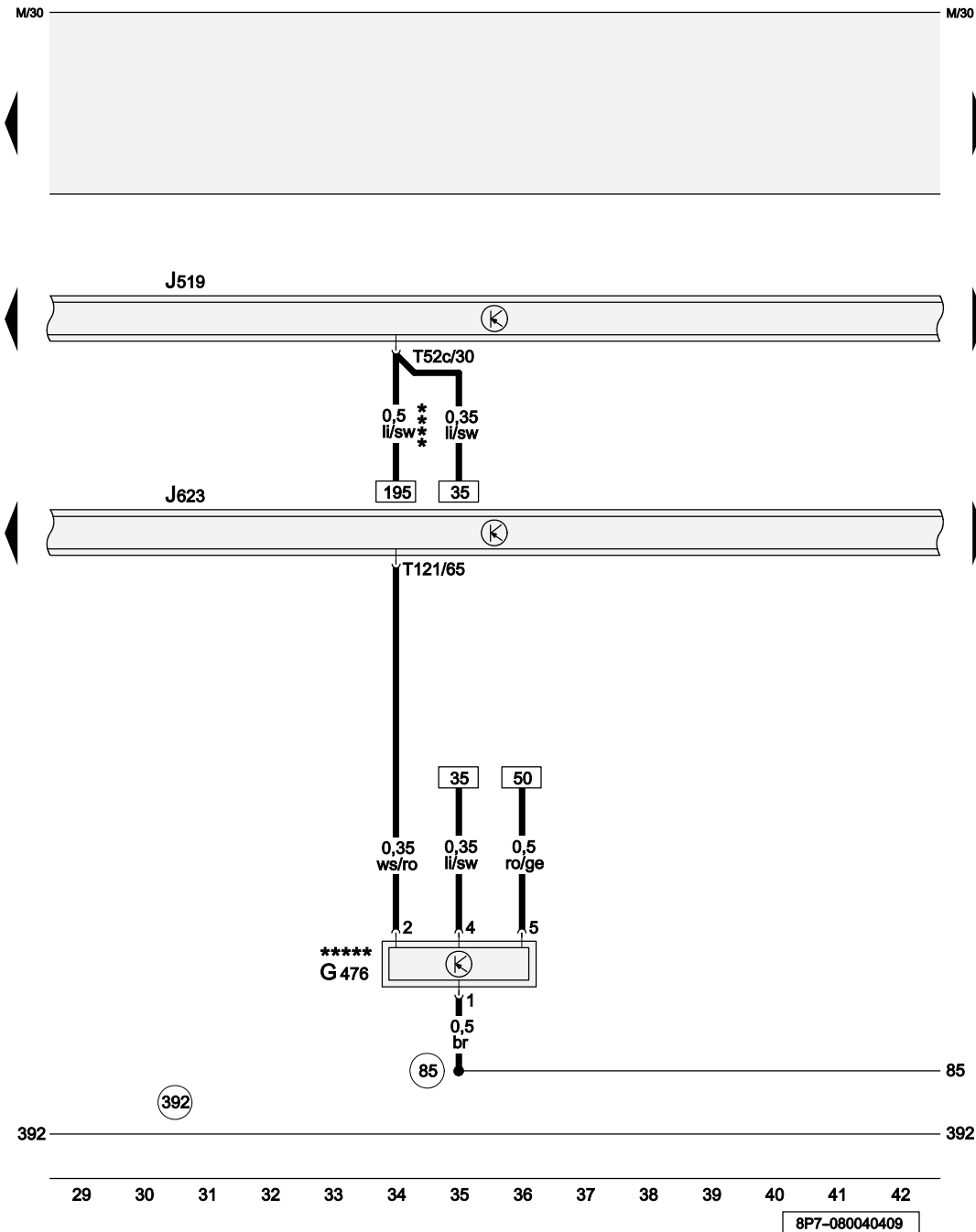
392 Earth connection 27, in main wiring harness

B240 Positive connection 2 (50), in interior wiring harness

B475 Connection 11, in main wiring harness

* for models with CAN bus drive train only
 ** ⇒ applicable Current Flow Diagram for models with battery in engine compartment

**** for models with cruise control system only



Clutch position sender

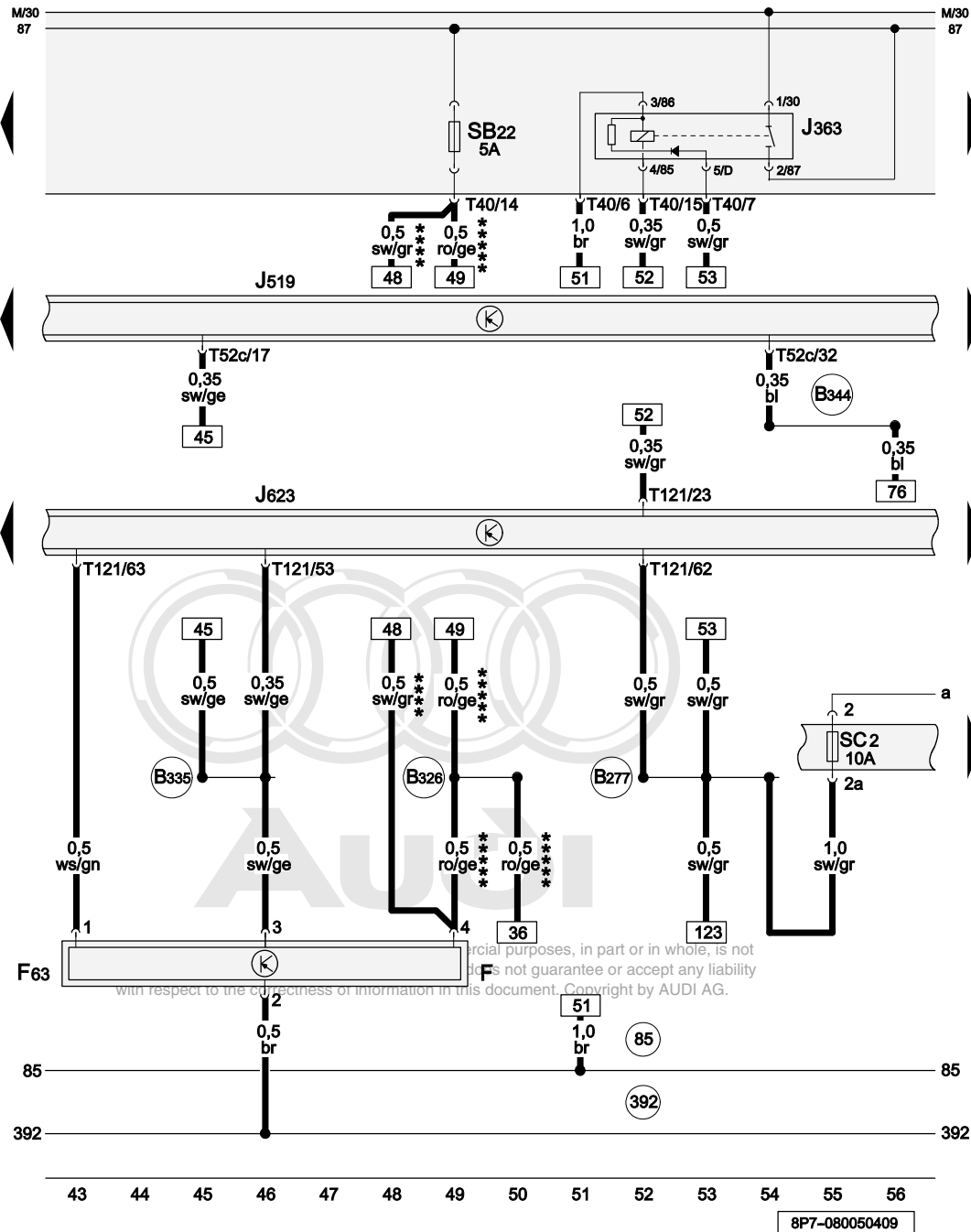
- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- T52c 52-pin connector, brown (connector C)
- T121 121-pin connector, black, on engine control unit

85 Earth connection 1, in engine compartment wiring harness

392 Earth connection 27, in main wiring harness

**** for models with automatic gearbox only
**** for models with manual gearbox only

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Brake light switch, brake pedal switch, current supply relay for Simos control unit

- F Brake light switch
- F63 Brake pedal switch
- J363 Current supply relay for Simos control unit
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- SC2 Fuse 2 on fuse holder C
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52c 52-pin connector, brown (connector C)
- T121 121-pin connector, black, on engine control unit

85 Earth connection 1, in engine compartment wiring harness

392 Earth connection 27, in main wiring harness

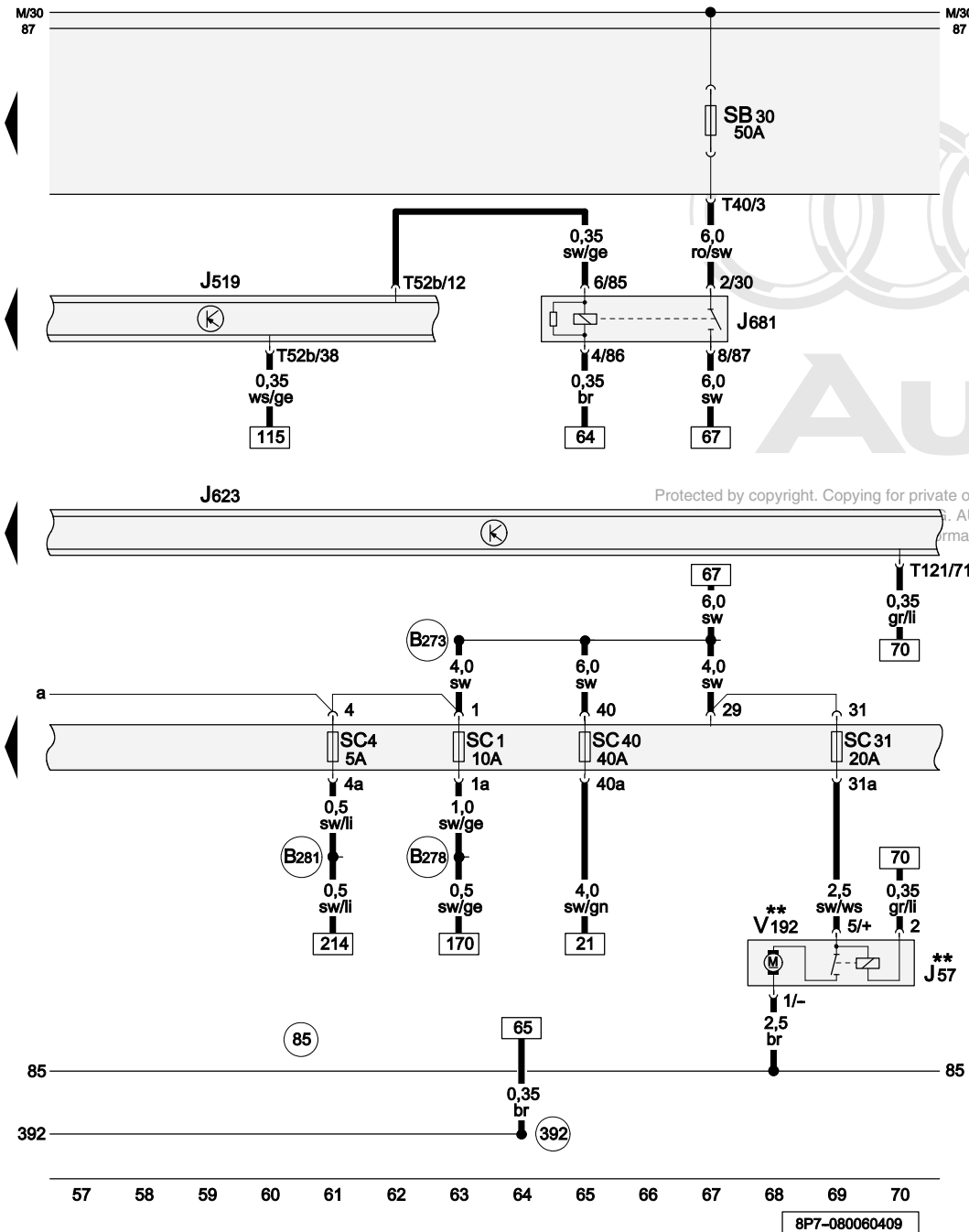
B277 Positive connection 1 (15a), in main wiring harness

B326 Positive connection 12 (30a), in main wiring harness

B335 Connection 1 (54), in main wiring harness

B344 Connection 1 (61), in main wiring harness

**** for models with automatic gearbox only
 ***** for models with manual gearbox only

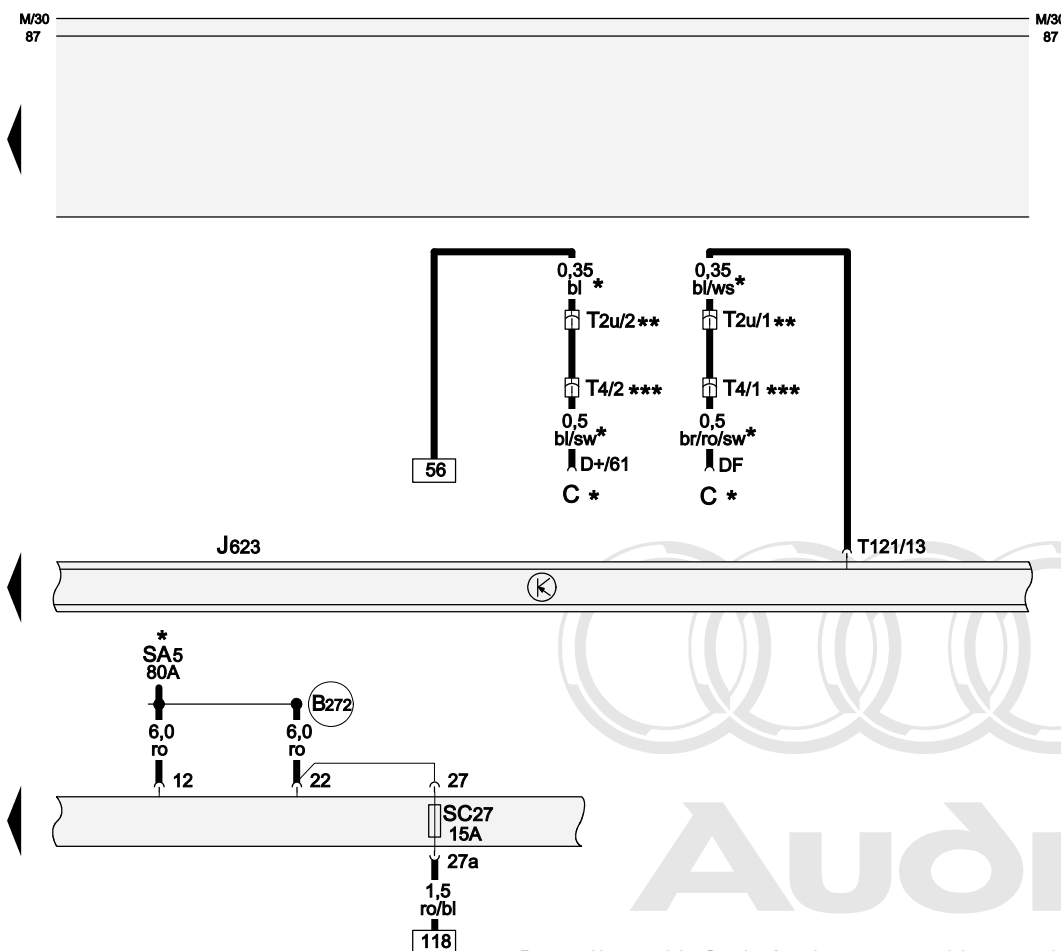


Vacuum pump relay, terminal 15 voltage supply relay 2

- J57 Vacuum pump relay
- J519 Onboard supply control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC31 Fuse 31 on fuse holder C
- SC40 Fuse 40 on fuse holder C
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- T121 121-pin connector, black, on engine control unit
- V192 Vacuum pump for brakes

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- ** only models with anti-lock brake system (ABS)

ws = white
 sw = black
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 br = brown
 gn = green
 bl = blue
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 li = purple
 ge = yellow
 or = orange
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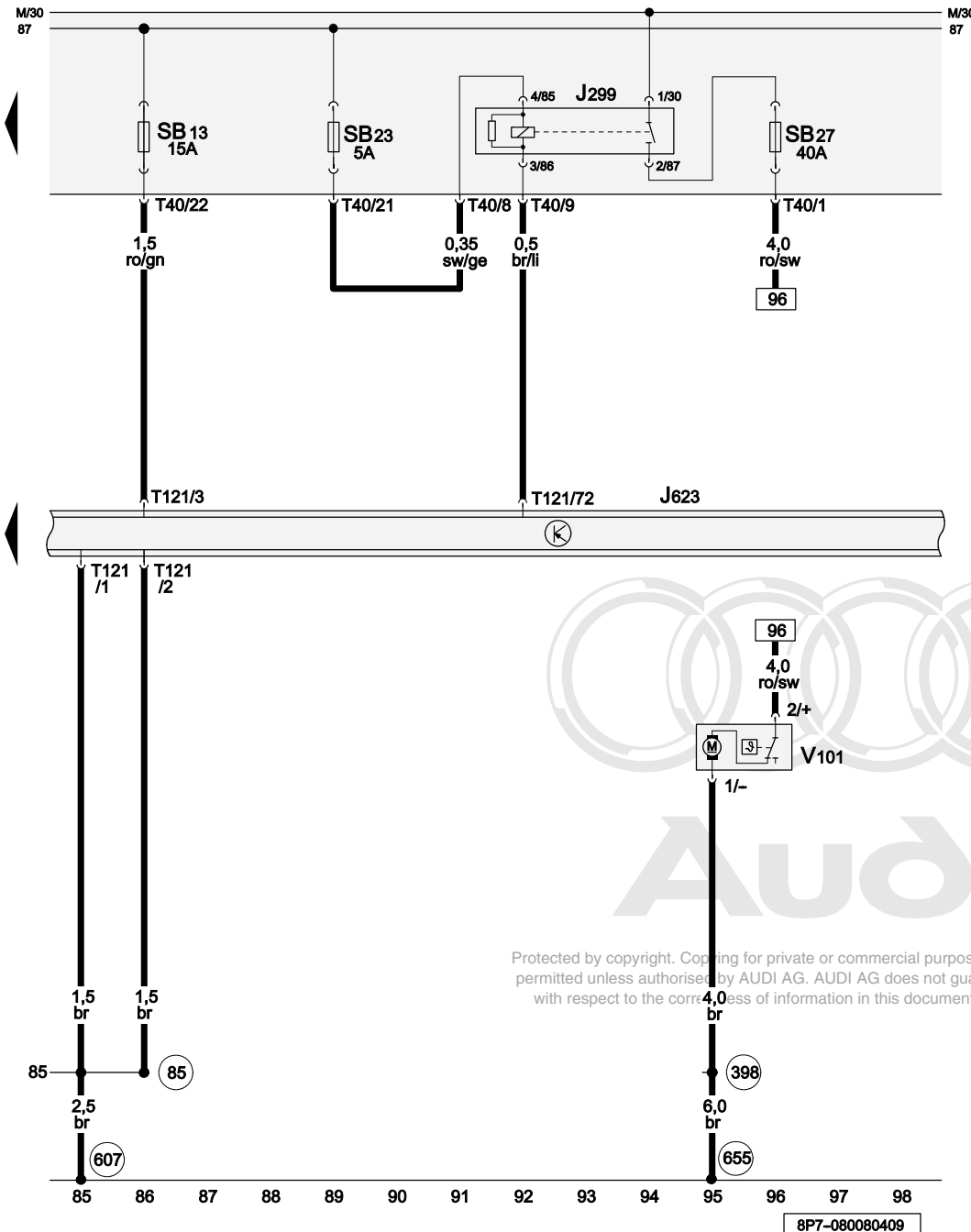
Alternator

- | | |
|------|--|
| C | Alternator |
| J623 | Engine control unit |
| SA5 | Fuse 5 on fuse holder A |
| SC27 | Fuse 27 on fuse holder C |
| T2u | 2-pin connector, brown, in front left engine compartment |
| T4 | 4-pin connector, black, in front left engine compartment |
| T121 | 121-pin connector, black, on engine control unit |

- (85) Earth connection 1, in engine compartment wiring harness

- (B272) Positive connection (30), in main wiring harness

- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
 ** for models without air conditioning system only
 *** for models with air conditioning system only

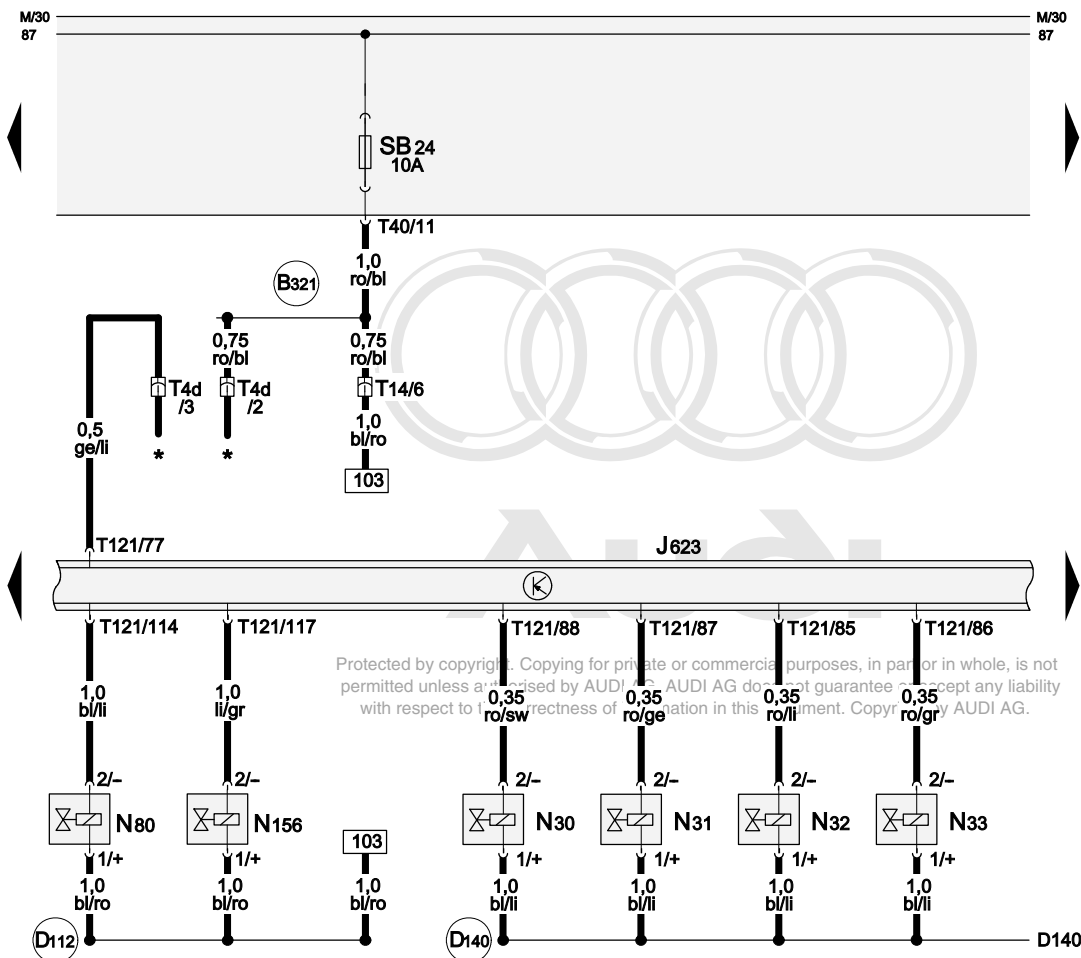


Secondary air pump relay, secondary air pump motor

- J299 Secondary air pump relay
- J623 Engine control unit
- SB13 Fuse 13 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB27 Fuse 27 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- V101 Secondary air pump motor

- 85 Earth connection 1, in engine compartment wiring harness
- 398 Earth connection 33, in main wiring harness
- 607 Earth point, on left in plenum chamber
- 655 Earth point, on left headlight

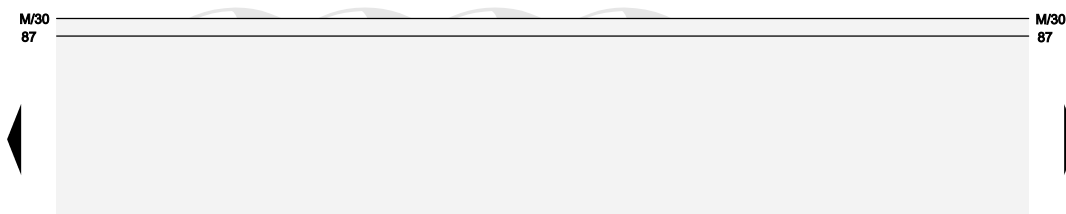
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Solenoid valves, injectors

- J623 Engine control unit
- N30 Injector, cylinder 1
- N31 Injector, cylinder 2
- N32 Injector, cylinder 3
- N33 Injector, cylinder 4
- N80 Activated charcoal filter system solenoid valve 1
- N156 Variable intake manifold change-over valve
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- B321 Positive connection 7 (30a), in main wiring harness
- D112 Connection 10, in engine compartment wiring harness
- D140 Connection (injectors), in engine wiring harness
- * ⇒ applicable Current Flow Diagram: radiator fan control

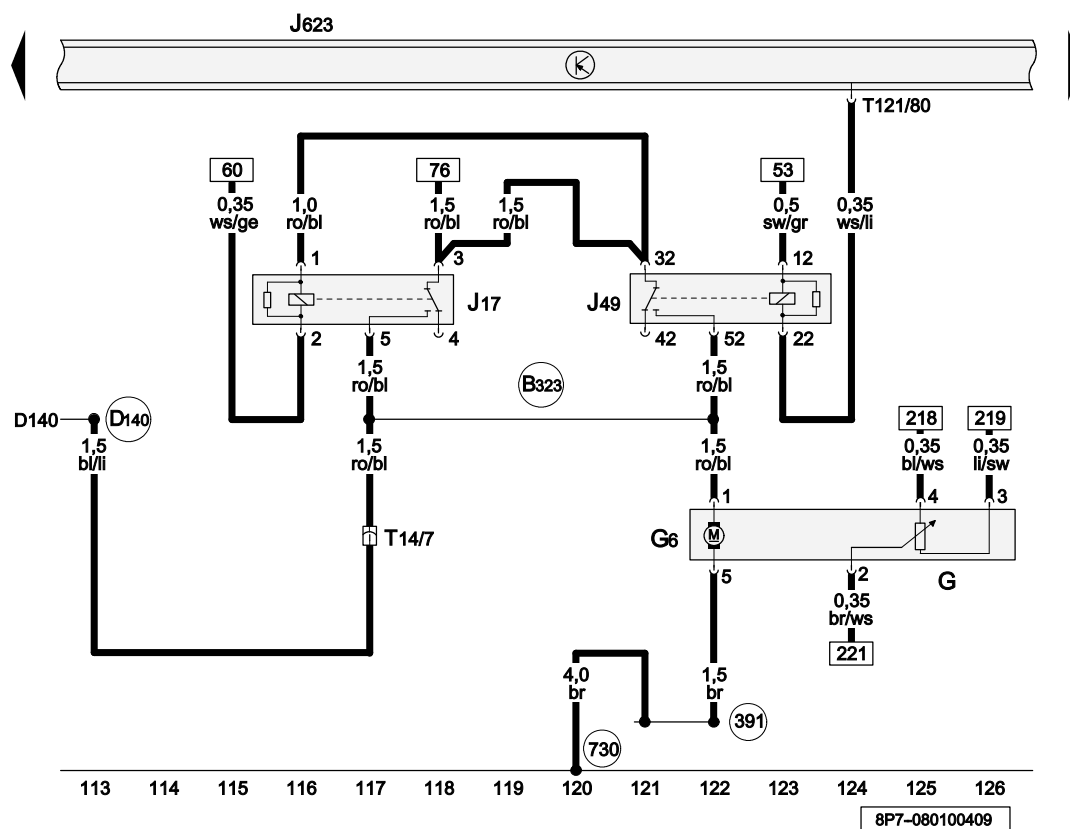
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Fuel gauge sender, fuel system pressurisation pump, fuel pump relay

- | | |
|------|---|
| G | Fuel gauge sender |
| G6 | Fuel system pressurisation pump |
| J17 | Fuel pump relay |
| J49 | Electric fuel pump 2 relay |
| J623 | Engine control unit |
| T14 | 14-pin connector, black, near longitudinal member, front left |
| T121 | 121-pin connector, black, on engine control unit |
| 391 | Earth connection 26, in main wiring harness |
| 730 | Earth point 1 on rear right wheel housing |
| B323 | Positive connection 9 (30a), in main wiring harness |
| D140 | Connection (injectors), in engine wiring harness |

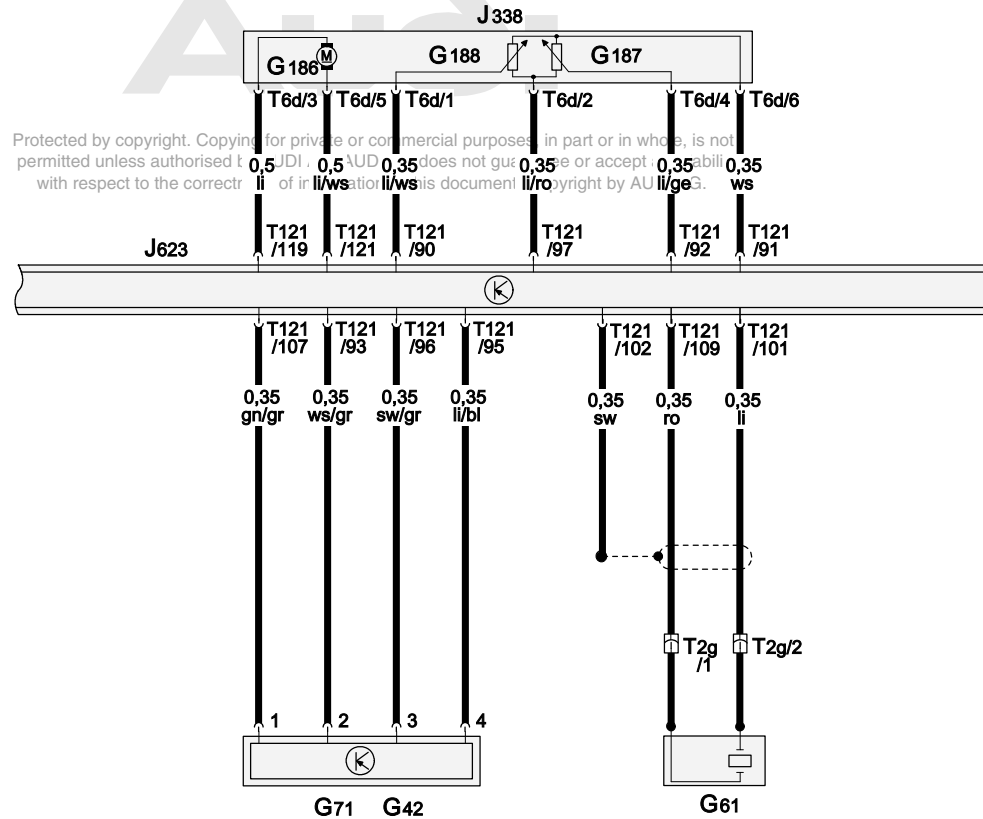


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Throttle valve module, intake manifold pressure sender, knock sensor

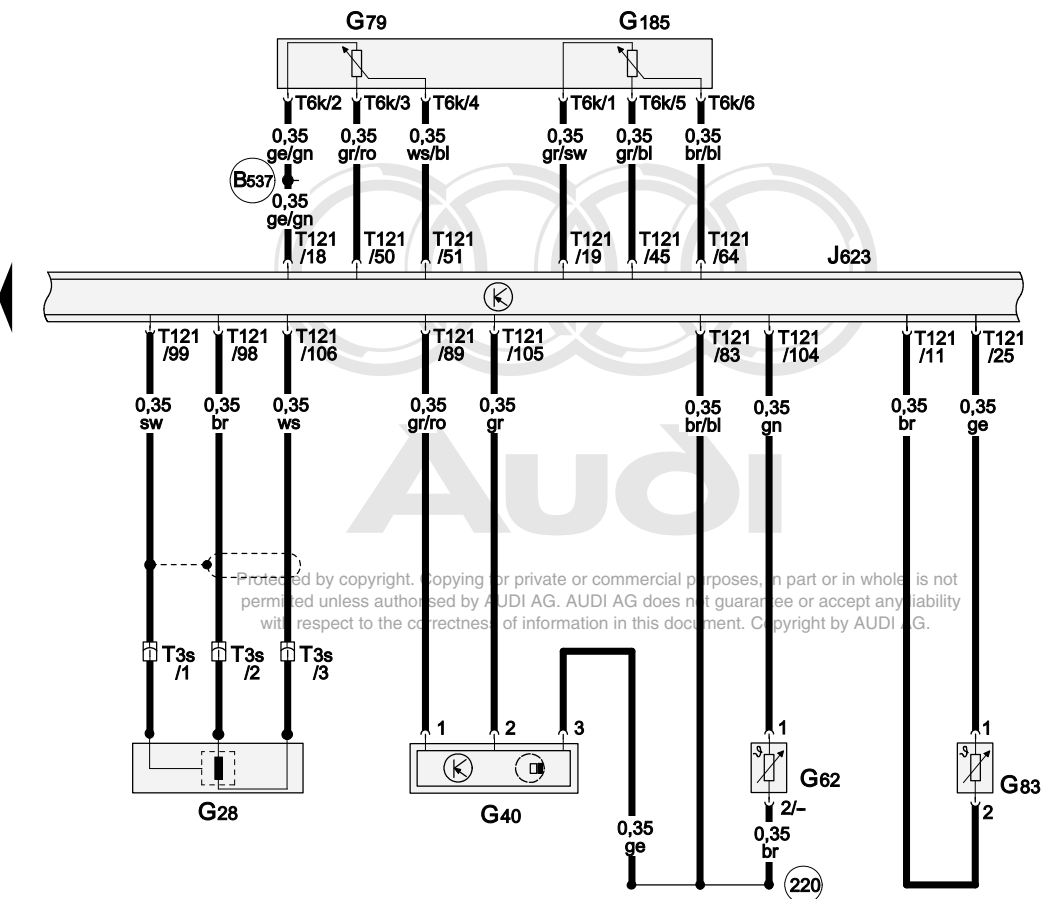
- G42 Intake air temperature sender
- G61 Knock sensor 1
- G71 Intake manifold pressure sender
- G186 Throttle valve drive (electric power control)
- G187 Throttle valve drive angle sender 1 for electric throttle
- G188 Throttle valve drive angle sender 2 for electric throttle
- J338 Throttle valve module
- J623 Engine control unit
- T2g 2-pin connector, black, in left engine compartment (knock sensor)
- T6d 6-pin connector, black, near throttle valve module
- T121 121-pin connector, black, on engine control unit



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127 128 129 130 131 132 133 134 135 136 137 138 139 140

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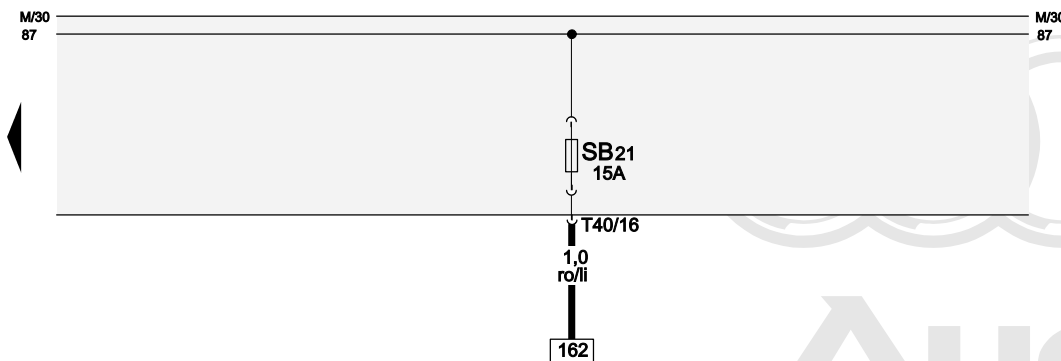
Accelerator position sender, Hall sender, engine speed sender, temperature sender

- G28 Engine speed sender
- G40 Hall sender
- G62 Coolant temperature sender
- G79 Accelerator position sender
- G83 Radiator outlet coolant temperature sender
- G185 Accelerator position sender 2
- J623 Engine control unit
- T3s 3-pin connector
- T6k 6-pin connector, black, near accelerator position sender
- T121 121-pin connector, black, on engine control unit
- 220 Earth connection (sender earth), in engine wiring harness
- B537 Connection 28, in main wiring harness

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141 142 143 144 145 146 147 148 149 150 151 152 153 154

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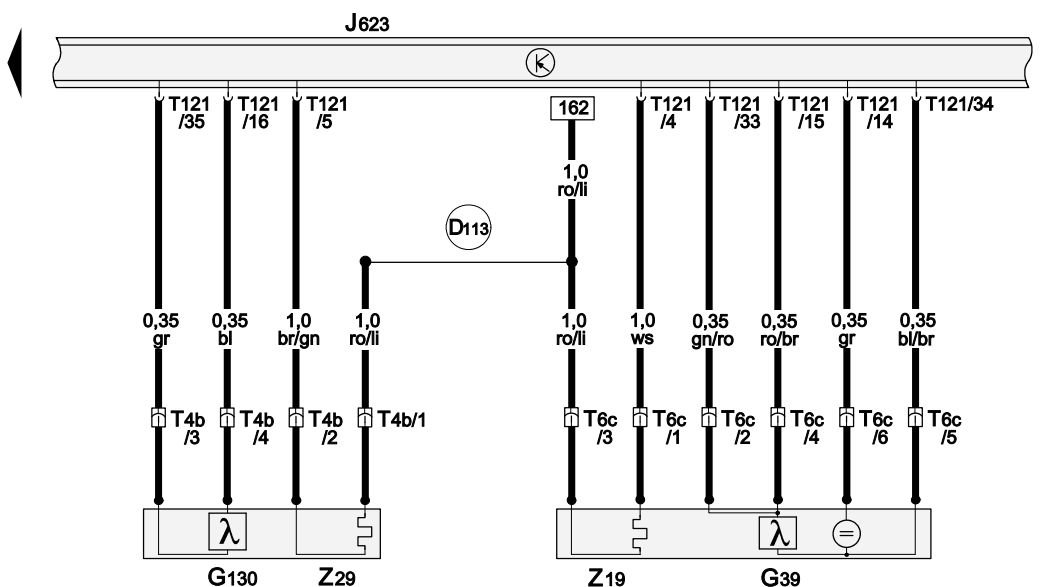


Lambda probe, lambda probe after catalytic converter

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T4b 4-pin connector, black, on Lambda probe after catalytic converter
- T6c 6-pin connector, black, on Lambda probe upstream of catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter

D113 Connection 11, in engine compartment wiring harness

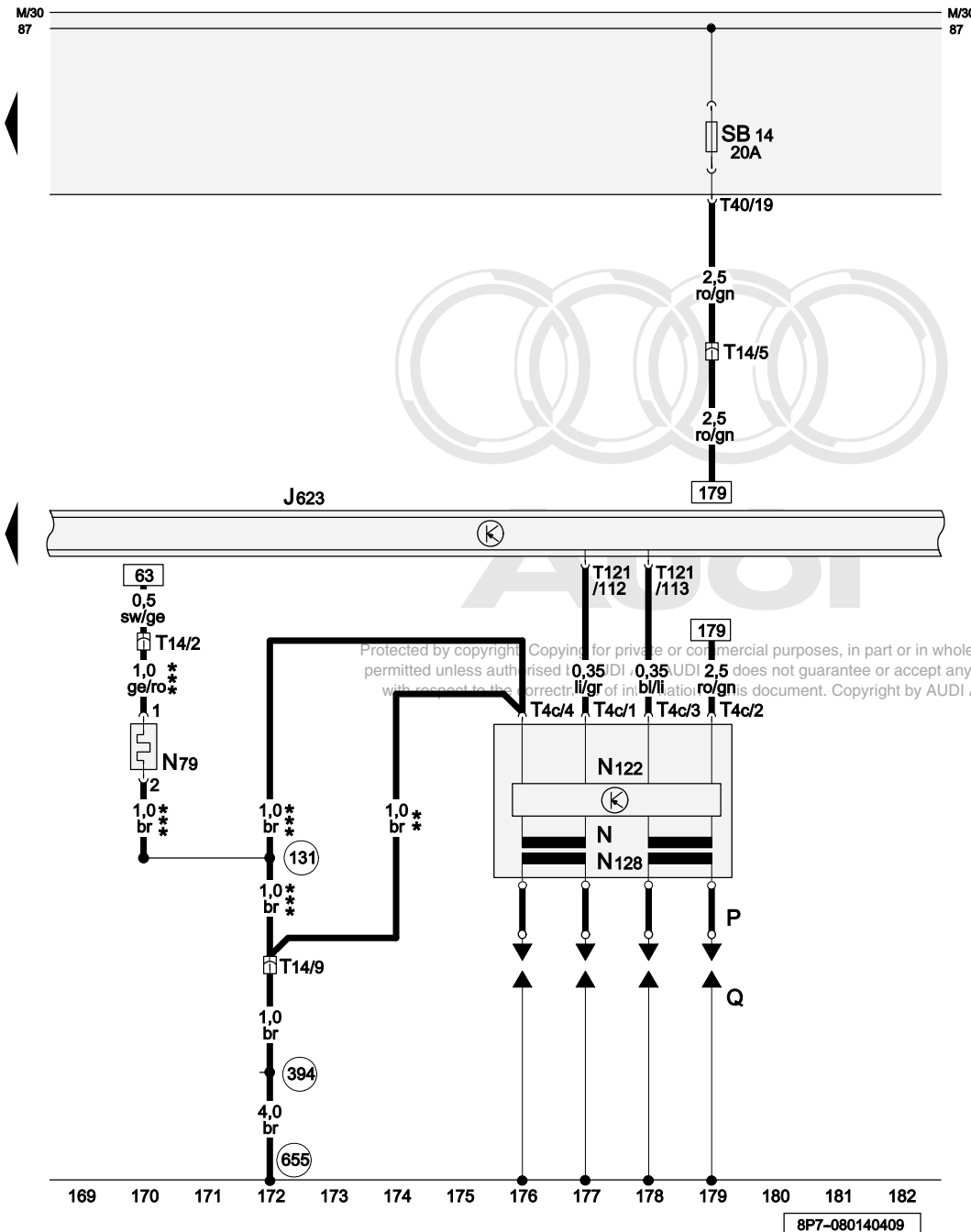
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155 156 157 158 159 160 161 162 163 164 165 166 167 168

8P7-080130409



Ignition coils with output stage, heater element for crankcase breather

- J623 Engine control unit
- N Ignition coil 1 with output stage
- N79 Heater element for crankcase breather
- N122 Output stage
- N128 Ignition coil 2
- P Spark plug connector
- Q Spark plugs
- SB14 Fuse 14 on fuse holder B
- T4c 4-pin connector, black, on the output stage
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T121 121-pin connector, black, on engine control unit

131 Earth connection 2, in engine compartment wiring harness

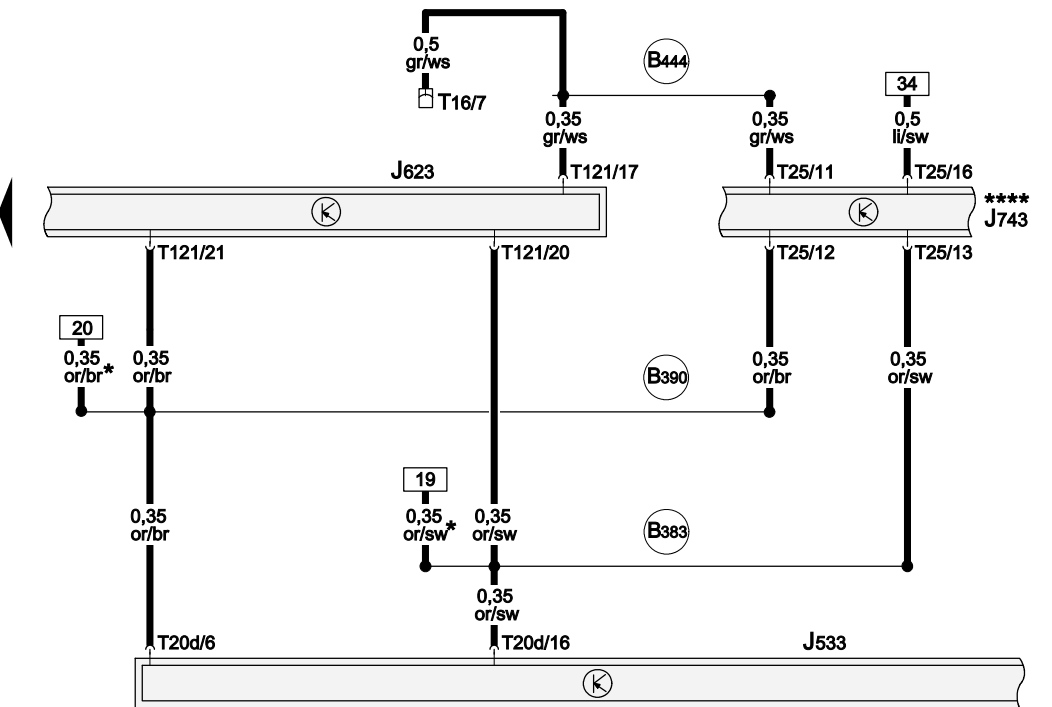
394 Earth connection 29, in main wiring harness

655 Earth point, on left headlight

** for models without heater element only

*** for models with heater element only

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183 184 185 186 187 188 189 190 191 192 193 194 195 196

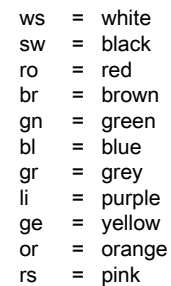
8P7-080150409

Drive train CAN bus, diagnosis

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)
- T20d 20-pin connector, black (connector A)
- T25 25-pin connector, black (connector A)
- T121 121-pin connector, black, on engine control unit
- B383 Connection 1 (drive train CAN bus, high), in main wiring harness
- B390 Connection 1 (drive train CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness
- * for models with CAN bus drive train only
- **** for models with automatic gearbox only

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J285	Control unit in dash panel insert
J533	Data bus diagnostic interface
K2	Alternator warning lamp
K31	Cruise control system warning lamp
K149	Engine electronics warning lamp
SB12	Fuse 12 on fuse holder B
T20d	20-pin connector, black (connector A)
T32	32-pin connector, blue (connector A)
T40	40-pin connector, black, on electronics box in engine compartment (connector J)

- | | |
|------|--|
| 388 | Earth connection 23, in main wiring harness |
| 389 | Earth connection 24, in main wiring harness |
| 390 | Earth connection 25, in main wiring harness |
| 638 | Earth point, right A-pillar |
| B482 | Connection 18, in main wiring harness |
| B708 | Connection 1 (dash panel insert CAN bus, high), in main wiring harness |
| B709 | Connection 1 (dash panel insert CAN bus, low), in main wiring harness |
| *** | No longer fitted, phased-in modification |

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Oil pressure switch, oil level and oil temperature sender

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, black, near longitudinal member, front left
- T14 14-pin connector, black, near longitudinal member, front left
- T32 32-pin connector, blue (connector A)

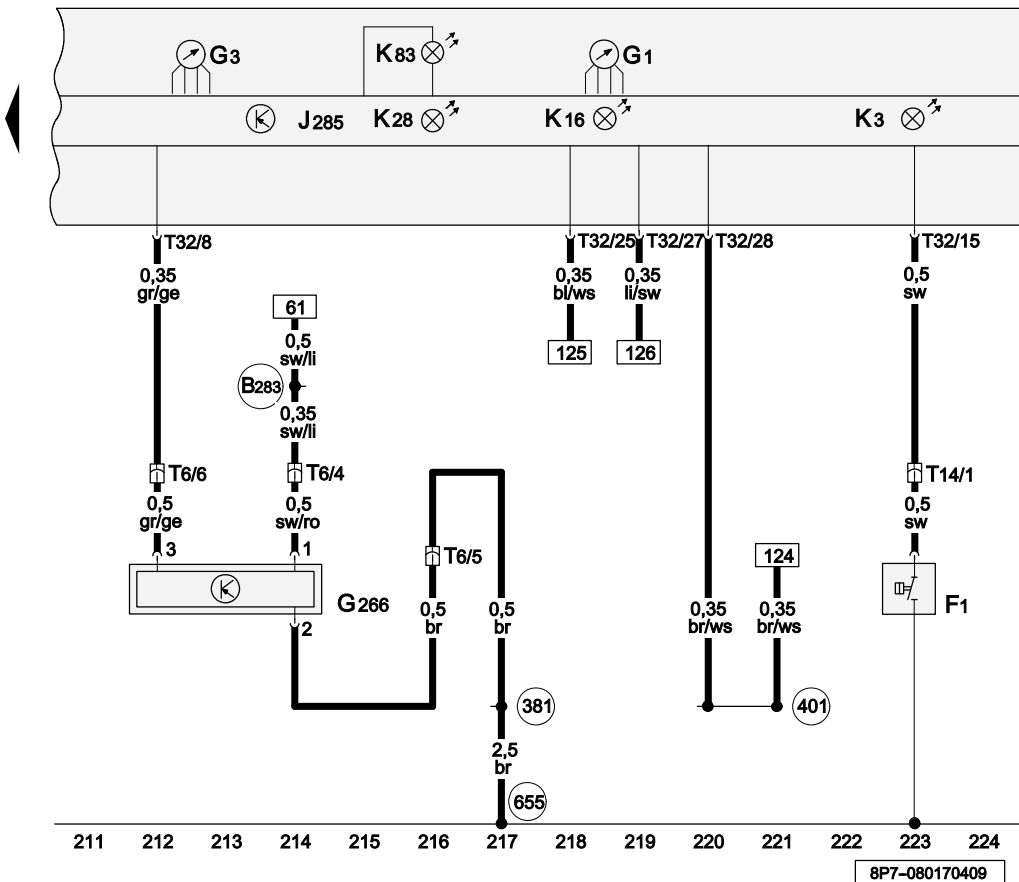
381 Earth connection 16, in main wiring harness

401 Earth connection (sender earth), in interior wiring harness

655 Earth point, on left headlight

B283 Positive connection 7 (15a), in main wiring harness

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2.0 I - Diesel engine (100 kW - Common Rail - 4 cylinder), engine code CBAA

from May 2009

2.0 I - Diesel engine (103 kW - Common Rail - 4 cylinder), engine code CBAB

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

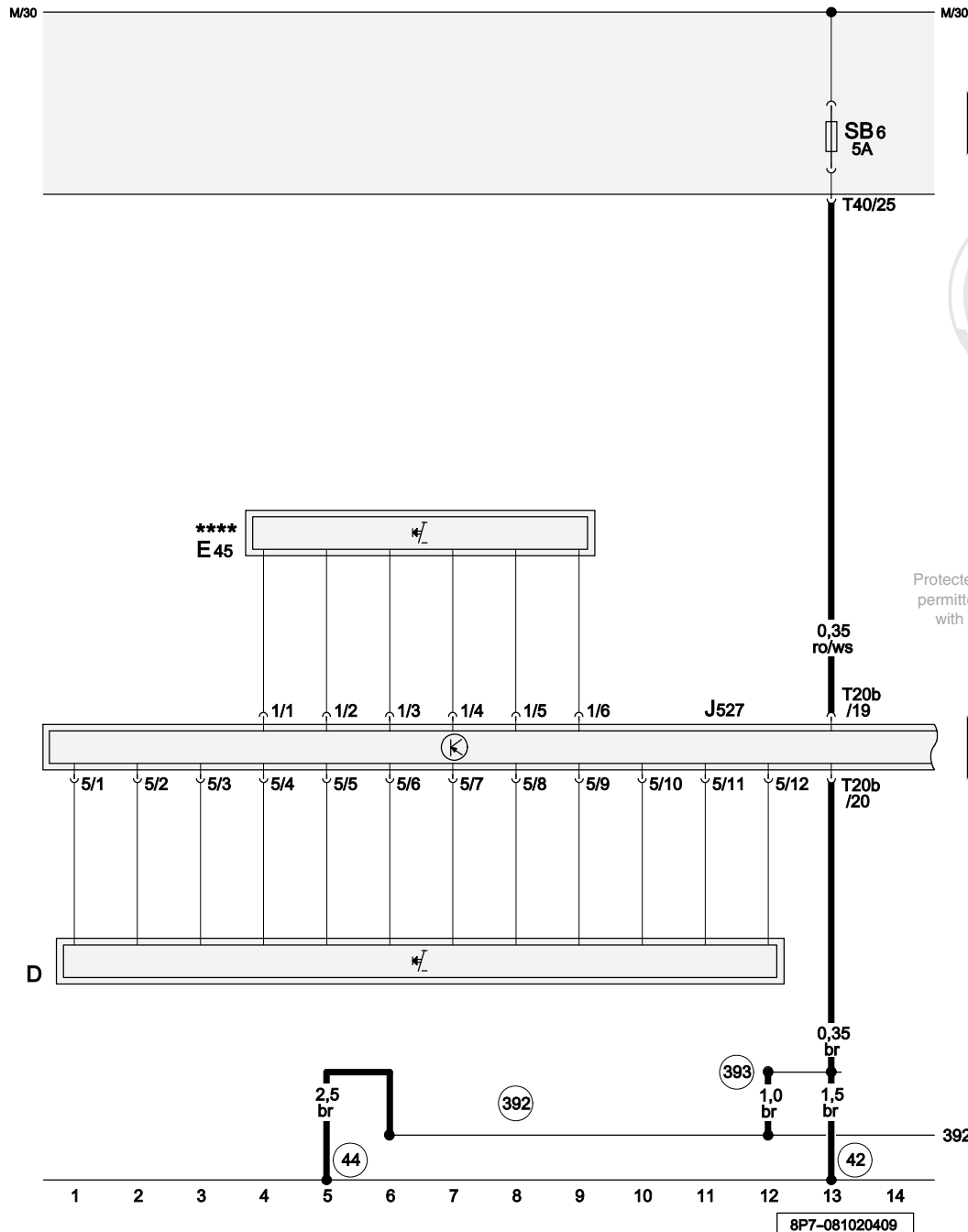
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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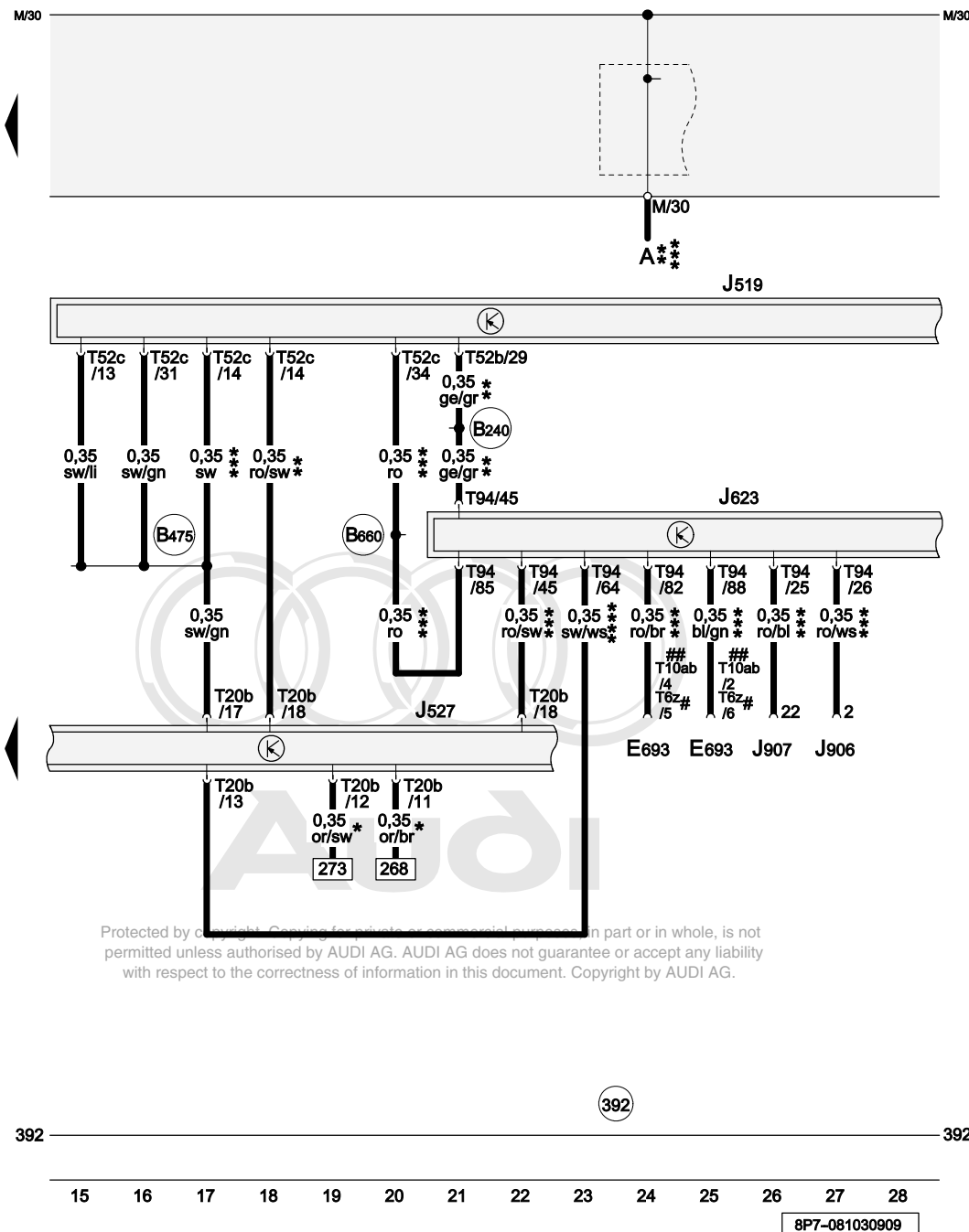
Cruise control system switch, ignition/starter switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- **** for models with cruise control system only

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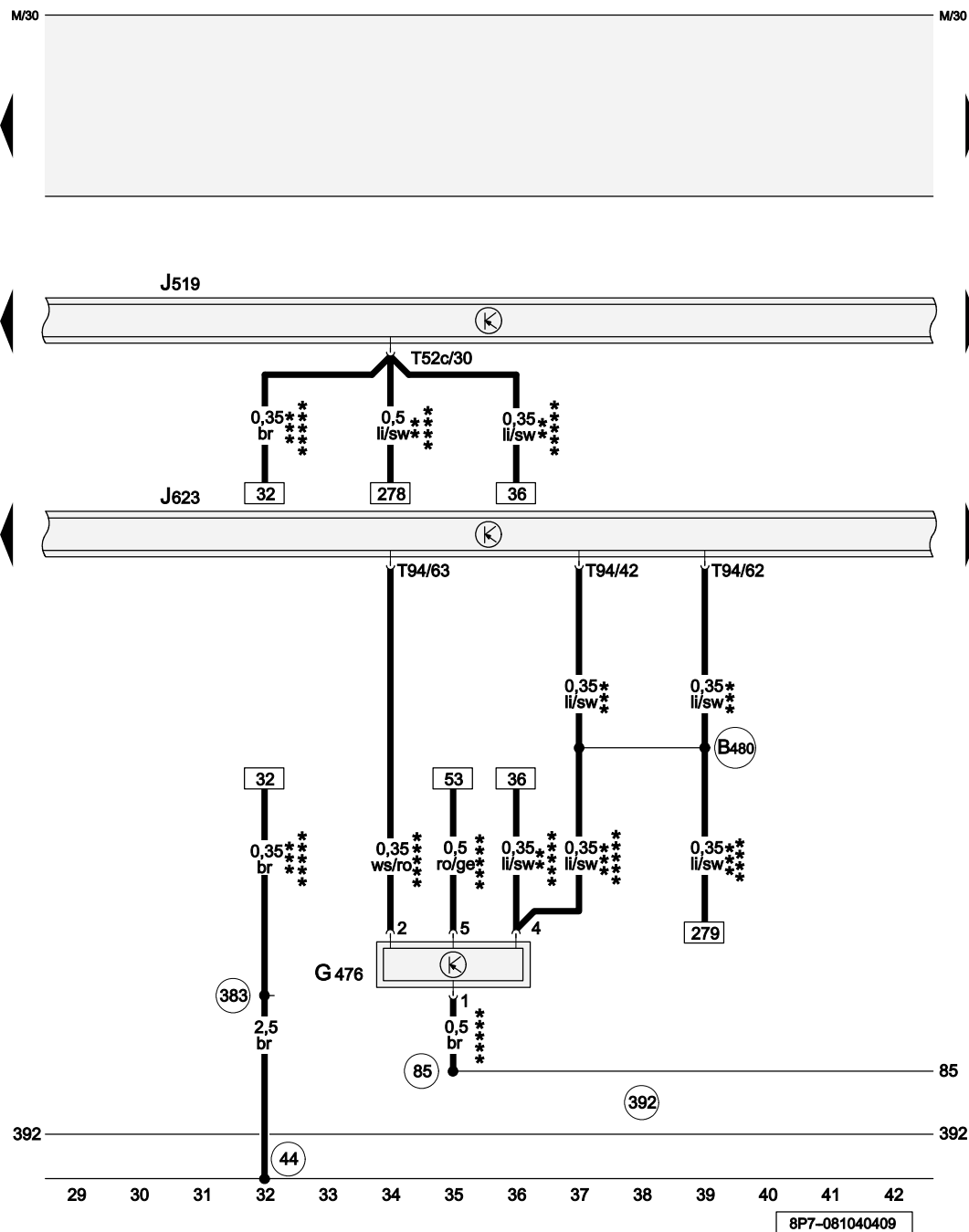
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Supply electronics box

- A Battery
- F416 Stop/start system button
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J906 Starter relay 1
- J907 Starter relay 2
- T6z 6-pin connector
- T10ab 10-pin connector
- T20b 20-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)
- T94 94-pin connector, black (connector B)
- 392 Earth connection 27, in main wiring harness
- B240 Positive connection 2 (50), in interior wiring harness
- B475 Connection 11, in main wiring harness
- B660 Connection (diagnosis terminal 50), in main wiring harness
- * for models with CAN bus drive train only
- ** only models without stop/start system ⇒ applicable Current Flow Diagram with battery in engine compartment
- *** only models with stop/start system ⇒ applicable Current Flow Diagram with battery in engine compartment
- # No longer fitted, phased-in modification
- ## phased-in modification

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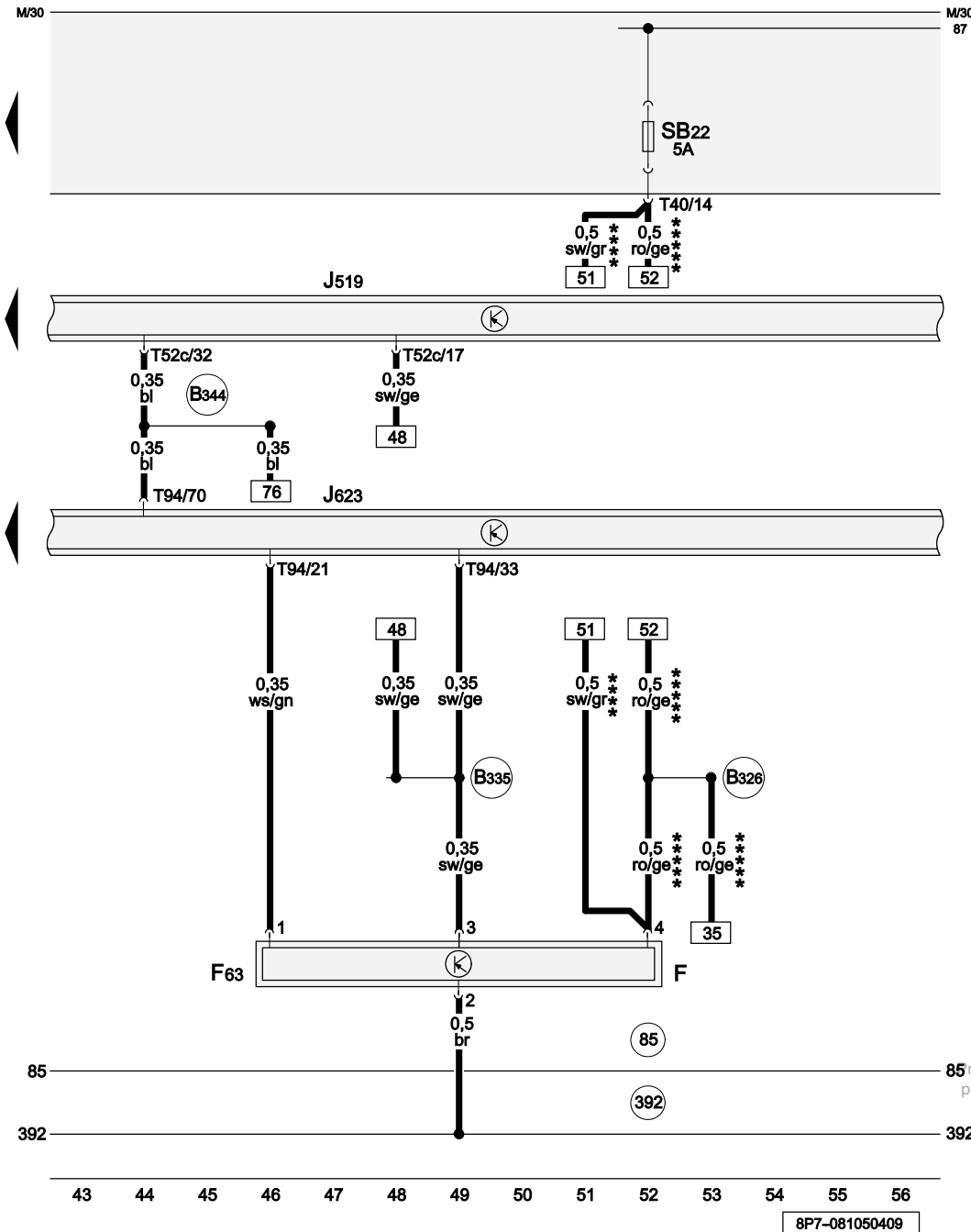


Clutch position sender

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- T52c 52-pin connector, brown (connector C)
- T94 94-pin connector, black (connector B)

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 383 Earth connection 18, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B480 Connection 16, in main wiring harness
- ** only models without stop/start system
- *** only models with stop/start system
- **** for models with automatic gearbox only
- ***** for models with manual gearbox only

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Brake light switch, brake pedal switch

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52c 52-pin connector, brown (connector C)
- T94 94-pin connector, black (connector B)

85 Earth connection 1, in engine compartment wiring harness

392 Earth connection 27, in main wiring harness

B326 Positive connection 12 (30a), in main wiring harness

B335 Connection 1 (54), in main wiring harness

B344 Connection 1 (61), in main wiring harness

**** for models with automatic gearbox only

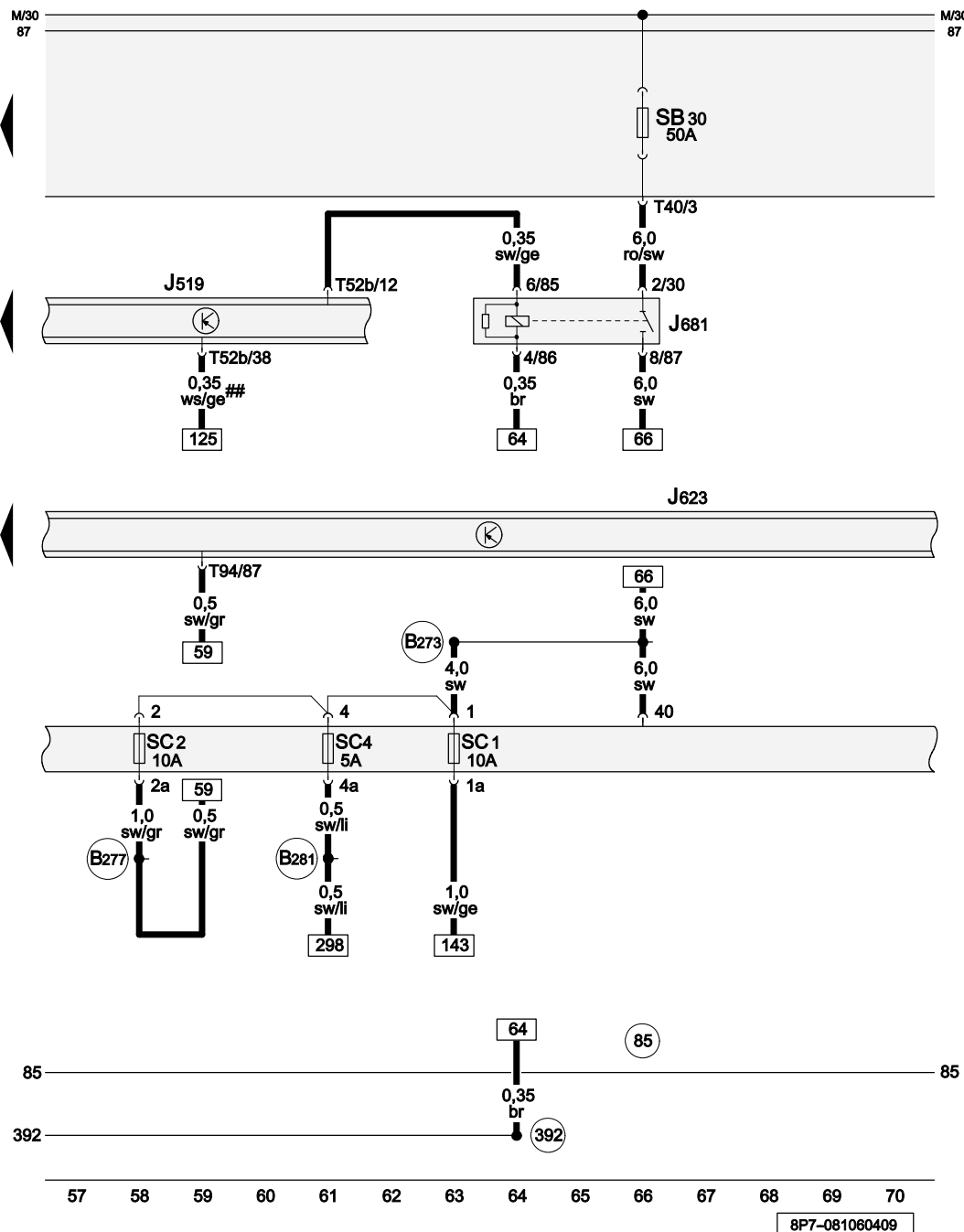
***** for models with manual gearbox only



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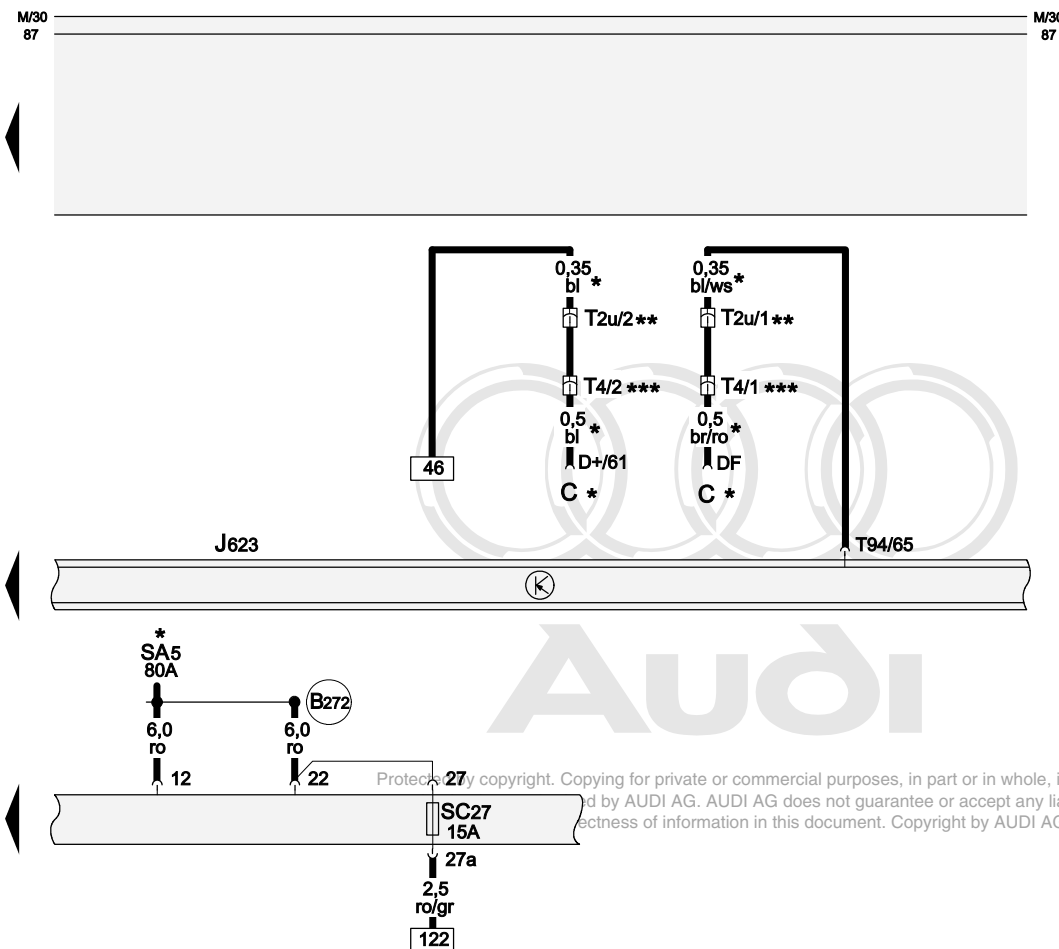
Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- T94 94-pin connector, black (connector B)

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a), in main wiring harness
- B281 Positive connection 5 (15a), in main wiring harness
- ## for models with auxiliary heating only

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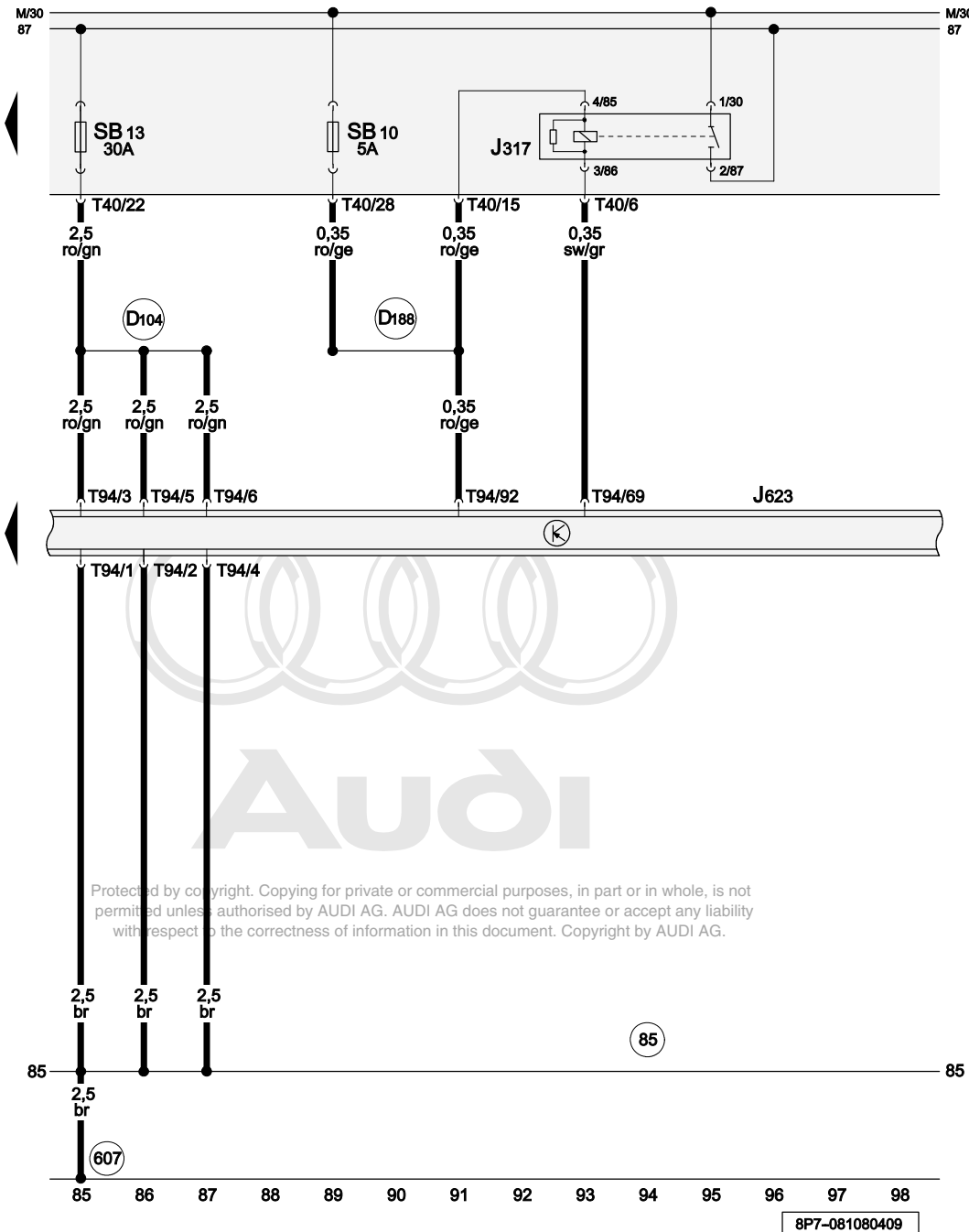
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



Alternator

- C Alternator
- J623 Engine control unit
- SA5 Fuse 5 on fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, brown, in front left engine compartment
- T4 4-pin connector, black, in front left engine compartment
- T94 94-pin connector, black (connector B)
- 85 Earth connection 1, in engine compartment wiring harness
- B272 Positive connection (30), in main wiring harness
- * without stop/start system and recuperation only, for models with stop/start system and recuperation ⇒ applicable Current Flow Diagram with battery in engine compartment
- ** for models without air conditioning system only
- *** for models with air conditioning system only

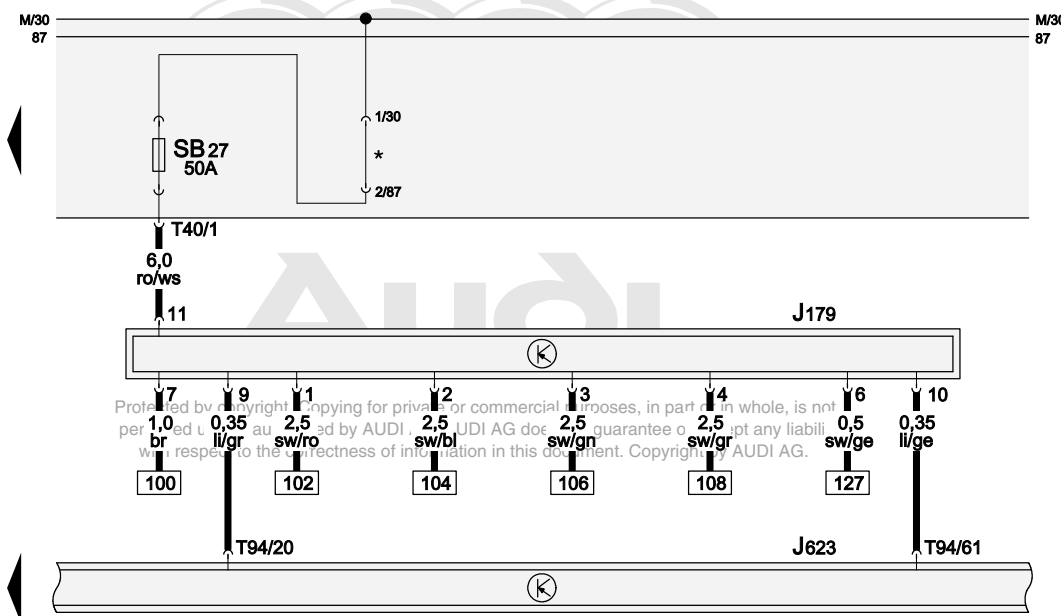
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Terminal 30 voltage supply relay

- J317 Terminal 30 voltage supply relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D104 Positive connection 2 (30a), in engine compartment wiring harness
- D188 Positive connection 3 (30a), in engine compartment wiring harness

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Glow plugs, automatic glow period control unit

J179 Automatic glow period control unit

J623 Engine control unit

Q10 Glow plug 1

Q11 Glow plug 2

Q12 Glow plug 3

Q13 Glow plug 4

SB27 Fuse 27 on fuse holder B

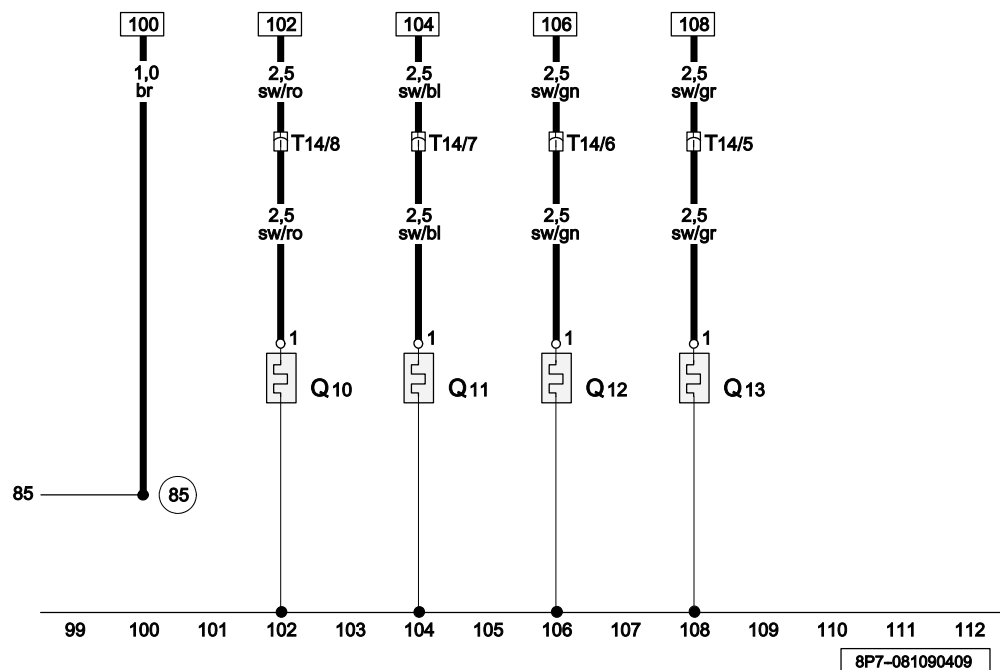
T14 14-pin connector, black, near longitudinal member, front left

T40 40-pin connector, black, on electronics box in engine compartment (connector J)

T94 94-pin connector, black (connector B)

(85) Earth connection 1, in engine compartment wiring harness

* electronics box, relay location 2 - bridge



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Audi

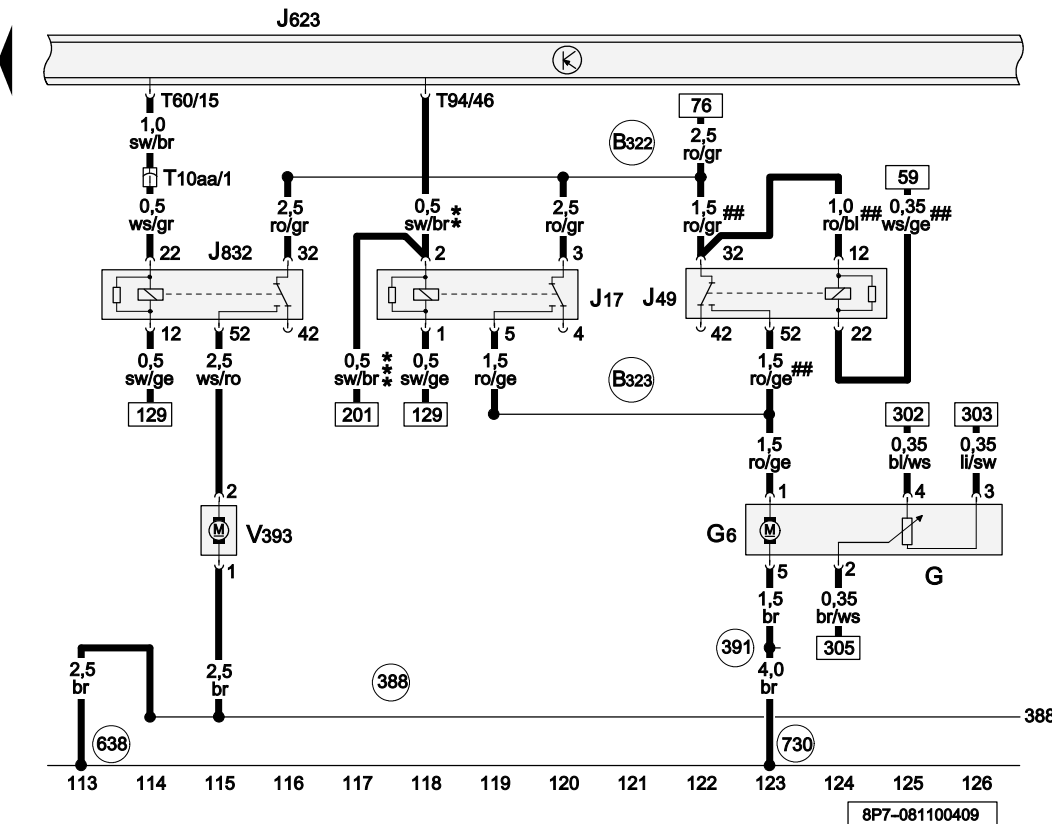
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Fuel pump, fuel gauge sender

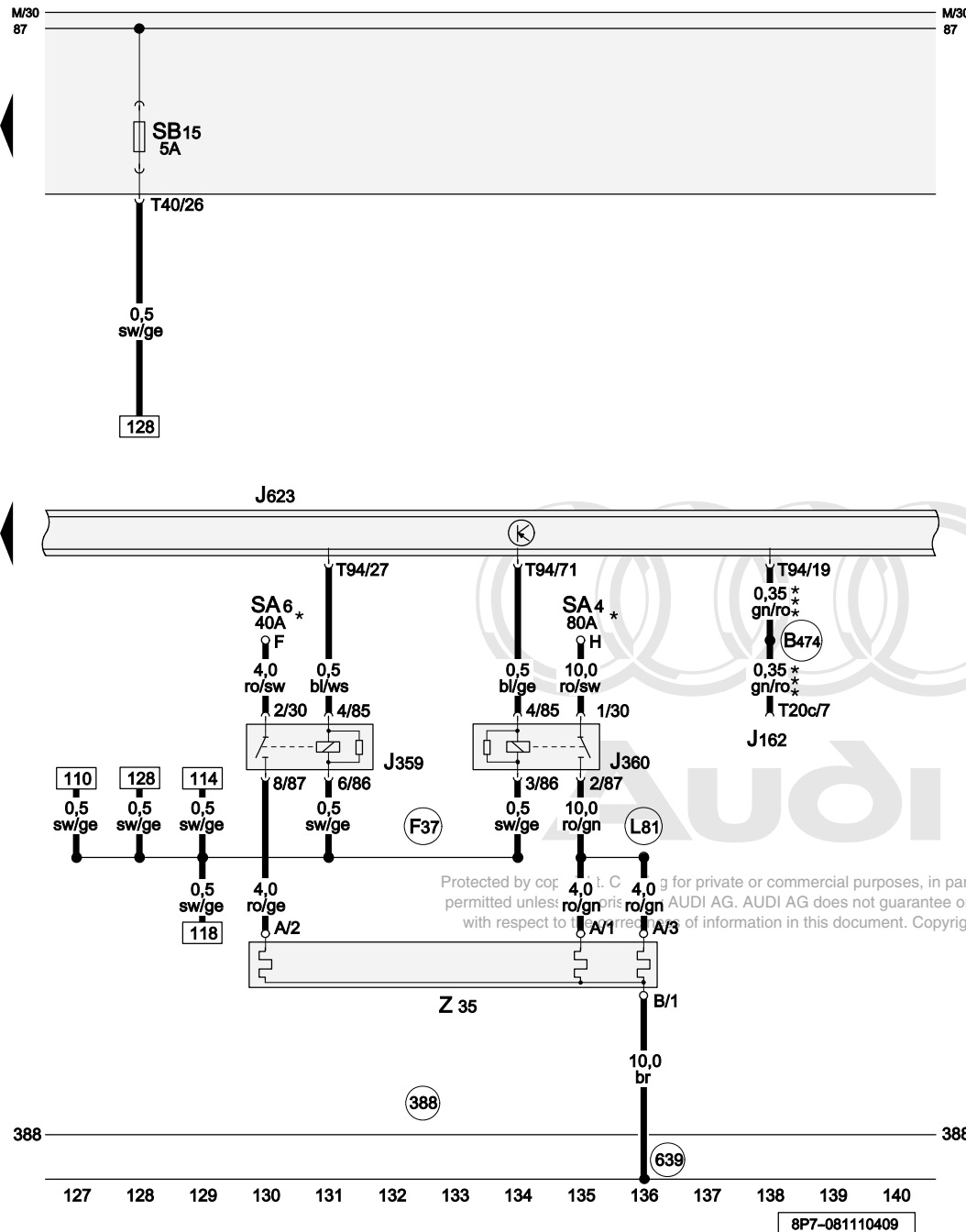
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- J623 Engine control unit
- J832 Relay for supplementary fuel pump
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V393 Supplementary fuel pump

- 388 Earth connection 23, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 638 Earth point, right A-pillar
- 730 Earth point 1, on rear right wheel housing
- B322 Positive connection 8 (30a), in main wiring harness
- B323 Positive connection 9 (30a), in main wiring harness

- ** only models without stop/start system
- *** only models with stop/start system
- ## for models with auxiliary heating only



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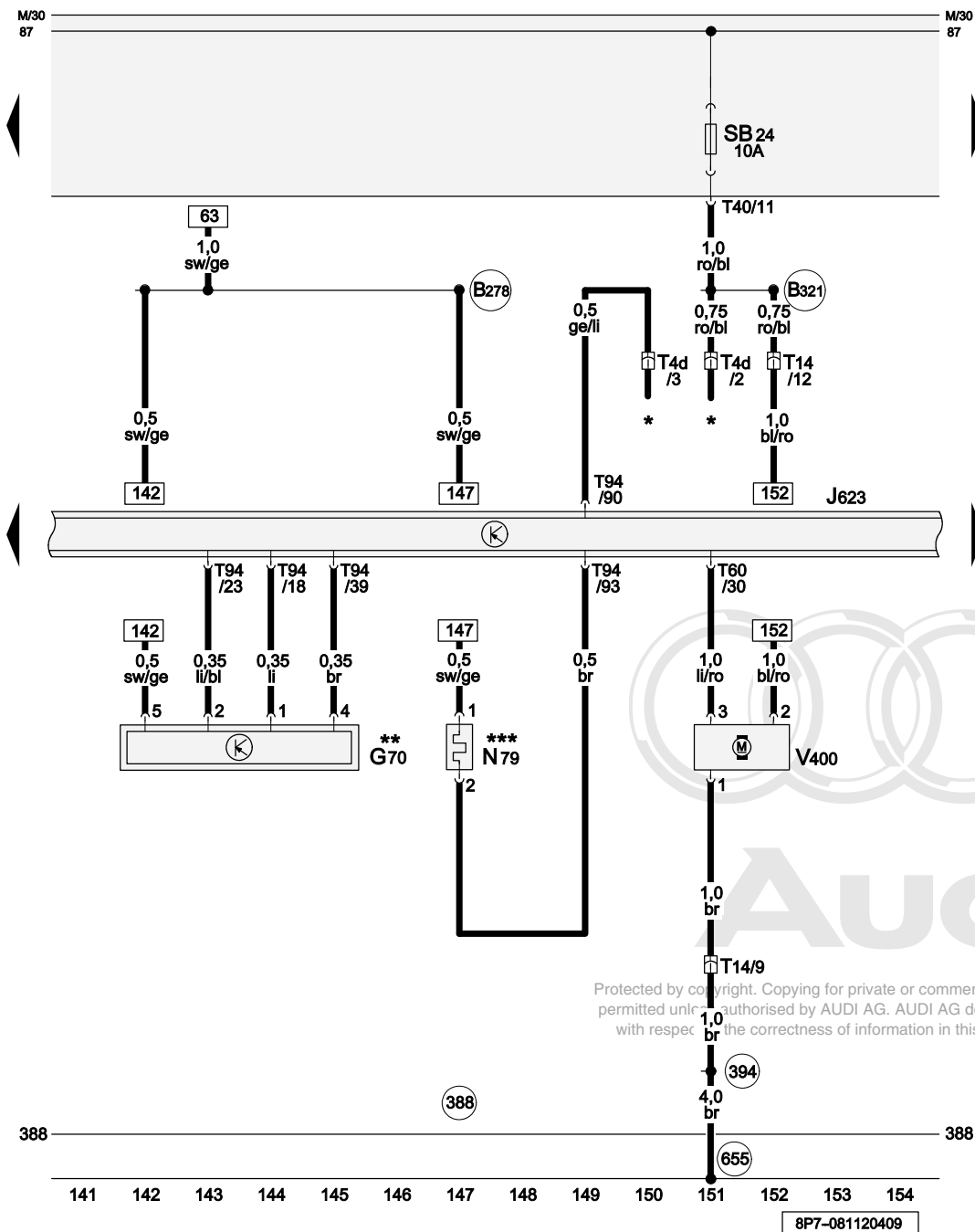


Auxiliary air heater

- J162 Heater control unit
- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z35 Auxiliary heater element

- 388 Earth connection 23, in main wiring harness
 - 639 Earth point, left A-pillar
 - B474 Connection 10, in main wiring harness
 - L81 Connection in supplementary heater wiring harness
 - F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- * ⇒ applicable Current Flow Diagram for models with battery in engine compartment
- *** only models with heater

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Heater element for crankcase breather, air mass meter, coolant circulation pump

- G70 Air mass meter
- J623 Engine control unit
- N79 Heater element for crankcase breather
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, black, on radiator fan (front end)
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V400 Pump for exhaust gas recirculation cooler
- 388 Earth connection 23, in main wiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- B278 Positive connection 2 (15a), in main wiring harness
- B321 Positive connection 7 (30a), in main wiring harness
- * ⇒ applicable Current Flow Diagram: radiator fan control
- ** only models without stop/start system
- *** for models with heater element only

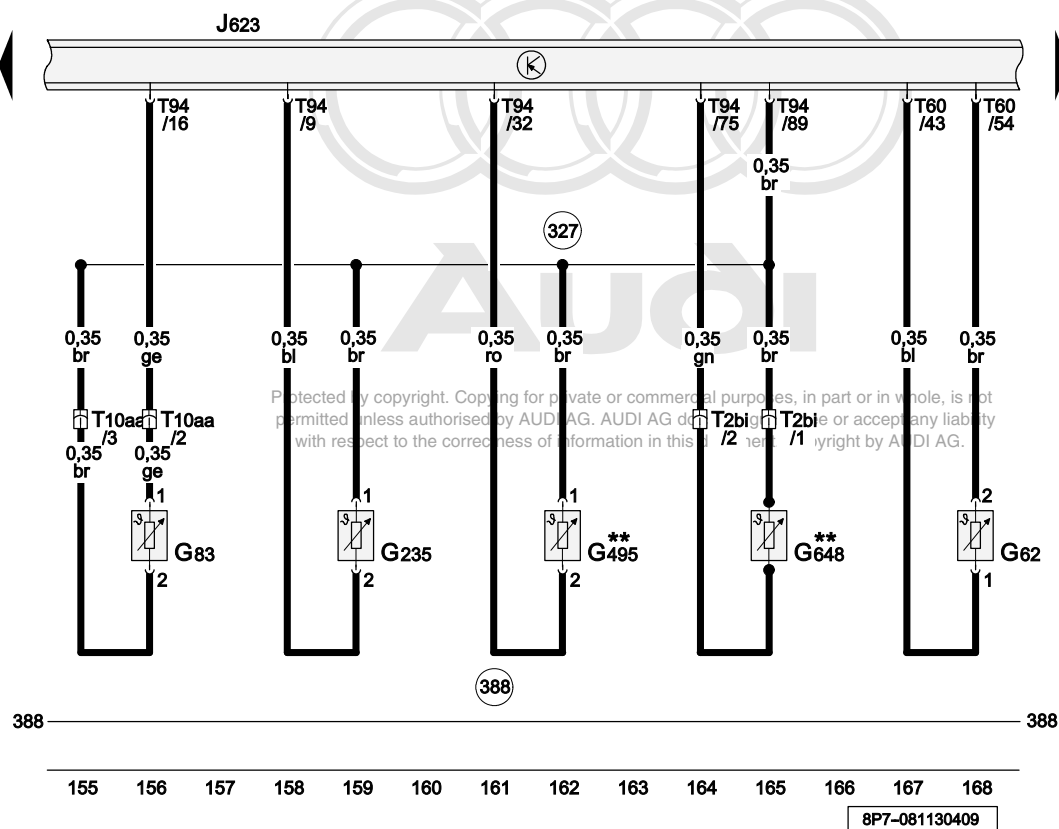


Temperature sender

- G62 Coolant temperature sender
- G83 Radiator outlet coolant temperature sender
- G235 Exhaust gas temperature sender 1
- G495 Exhaust gas temperature sender 3
- G648 Exhaust gas temperature sender 4
- J623 Engine control unit
- T2bi 2-pin connector, orange
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- 327 Earth connection (sender earth), in engine compartment wiring harness

- 388 Earth connection 23, in main wiring harness

** dropped for models with exhaust concept EU3

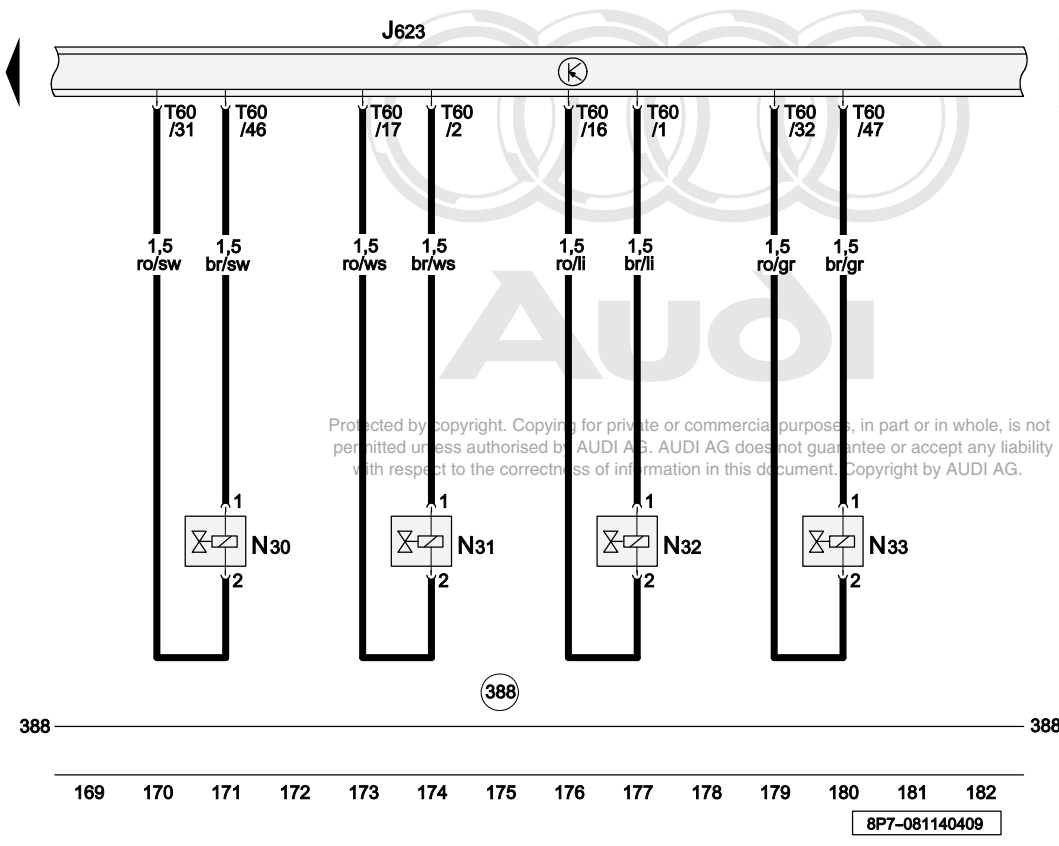


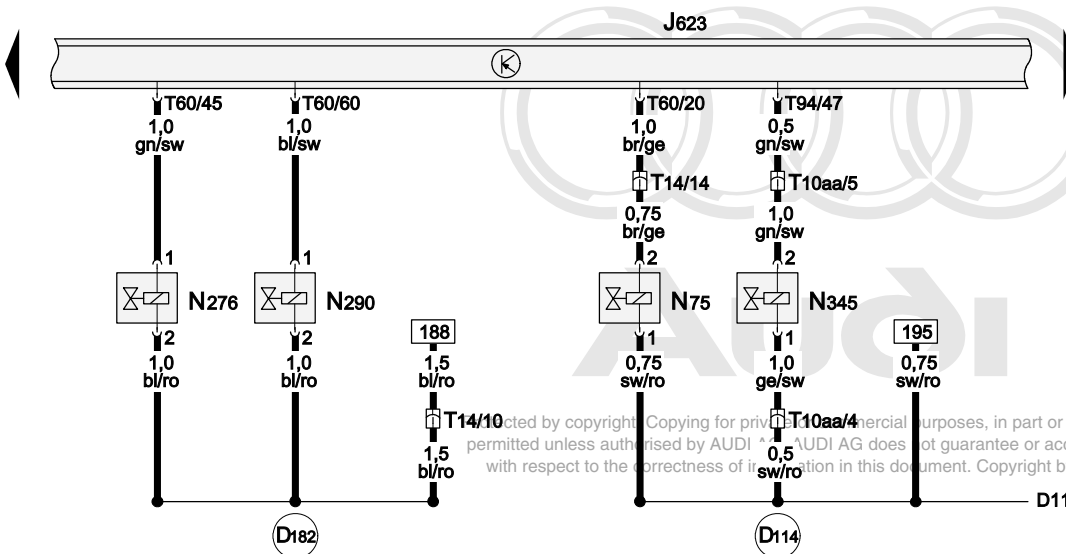
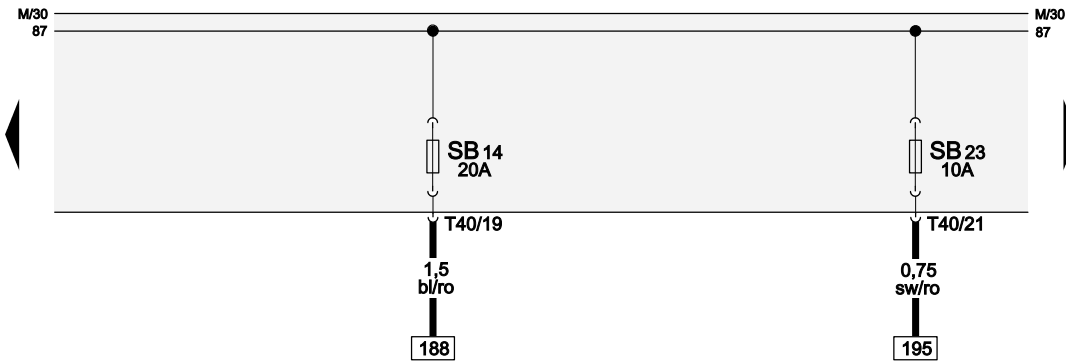
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Injectors

- J623 Engine control unit
- N30 Injector, cylinder 1
- N31 Injector, cylinder 2
- N32 Injector, cylinder 3
- N33 Injector, cylinder 4
- T60 60-pin connector, black (connector A)
- 388 Earth connection 23, in main wiring harness





Solenoid valves

- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N276 Fuel pressure regulating valve
- N290 Fuel metering valve
- N345 Exhaust gas recirculation cooler change-over valve
- SB14 Fuse 14 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T10aa 10-pin connector, black, near electronics box, in left engine compartment
- T14 14-pin connector, black, near longitudinal member, front left
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- 388 Earth connection 23, in main wiring harness
- D114 Connection 12, in engine compartment wiring harness
- D182 Connection 3 (87a), in engine compartment wiring harness

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gr = grey
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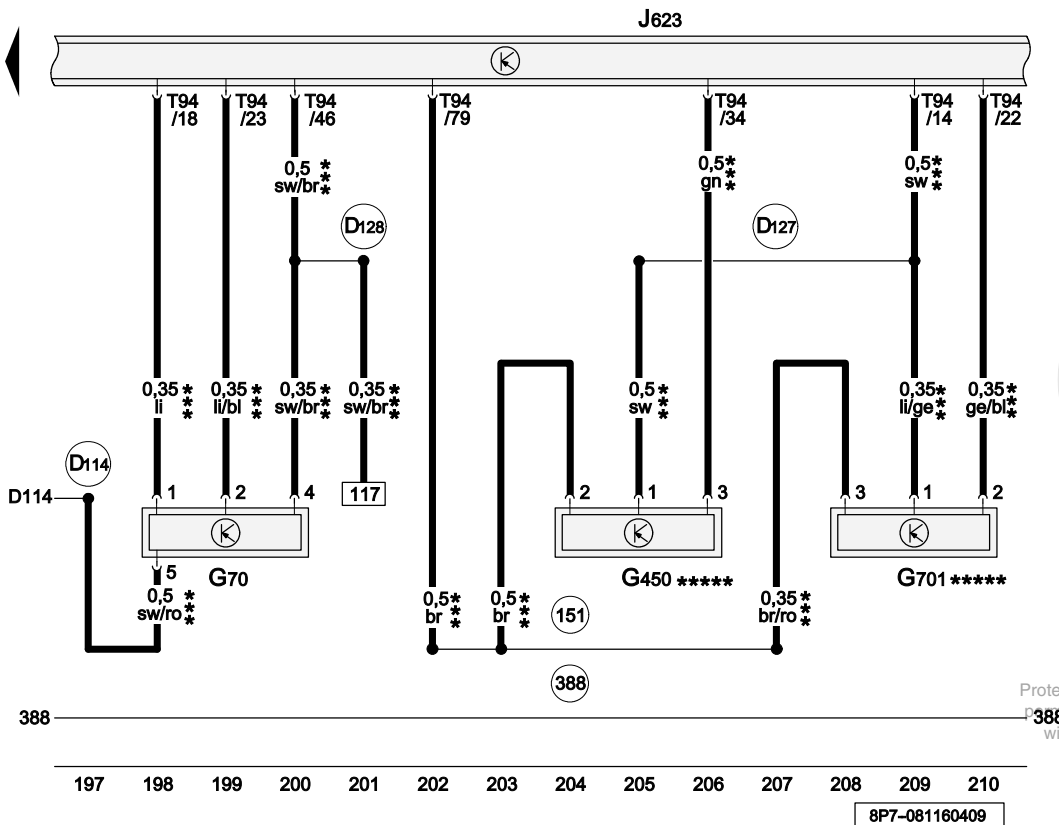


Air mass meter, exhaust gas pressure sensor 1, gearbox neutral position sender

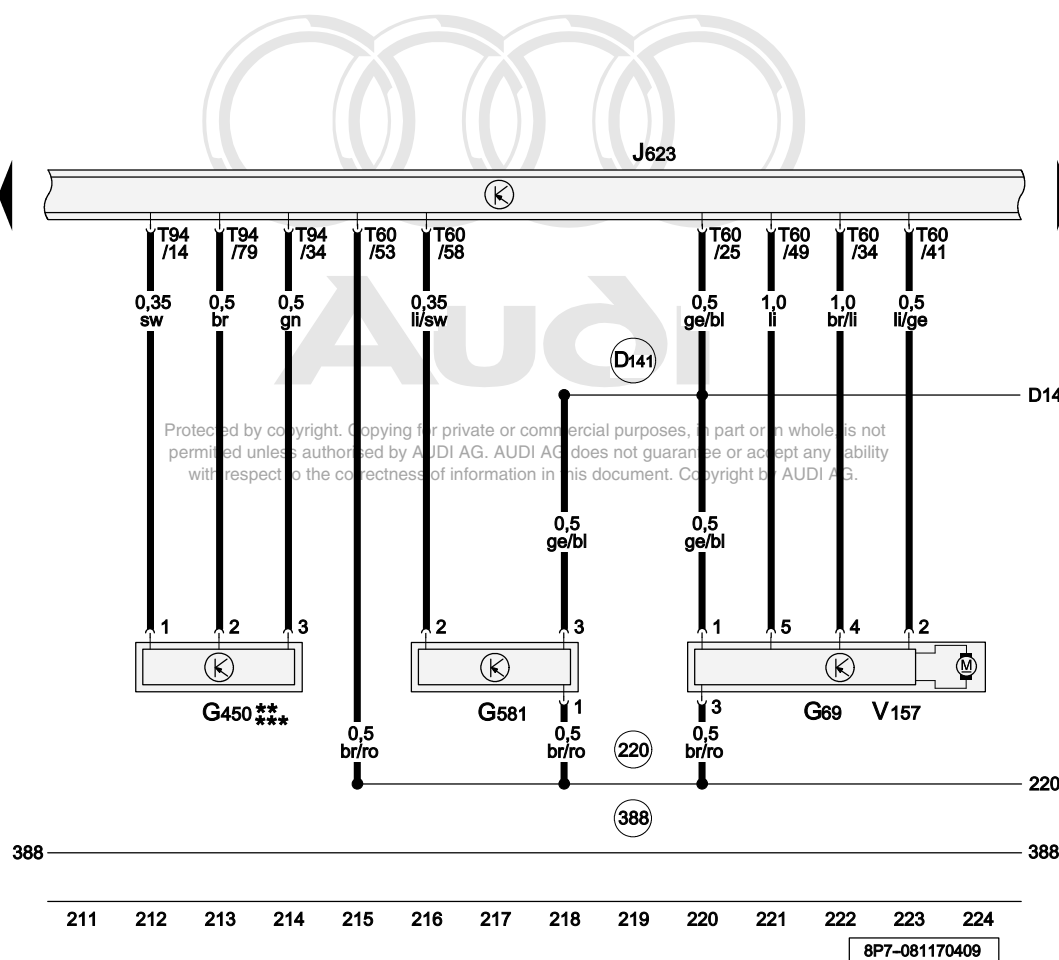
- G70 Air mass meter
- G450 Exhaust gas pressure sensor 1
- G701 gearbox neutral position sender
- J623 Engine control unit
- T94 94-pin connector, black (connector B)

- 151 Earth connection 1, in front wiring harness
- 388 Earth connection 23, in main wiring harness
- D114 Connection 12, in engine compartment wiring harness
- D127 Connection 25, in engine compartment wiring harness
- D128 Connection 26, in engine compartment wiring harness

*** only models with stop/start system
***** for models with manual gearbox only



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Throttle valve potentiometer, exhaust gas pressure sensor 1, position sender for charge pressure positioner, intake manifold flap motor

- G69 Throttle valve potentiometer
- G450 Exhaust gas pressure sensor 1
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- V157 Intake manifold flap motor
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

220 Earth connection (sender earth), in engine wiring harness

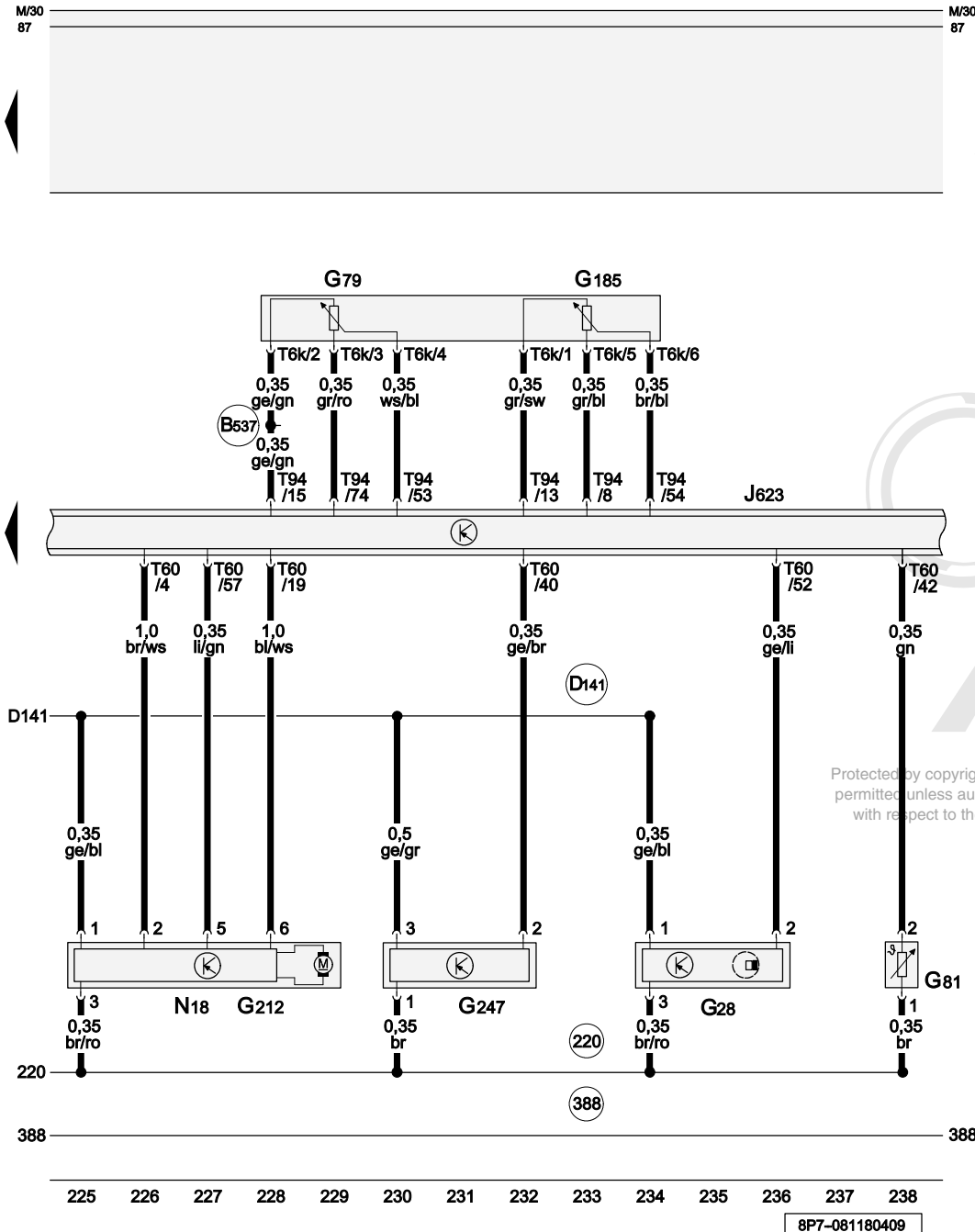
388 Earth connection 23, in main wiring harness

D141 Connection (5V), in engine wiring harness

** only models without stop/start system

*** only models with stop/start system and automatic gearbox

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Accelerator position sender, exhaust gas recirculation potentiometer, fuel pressure sender, engine speed sender, fuel temperature sender

- G28 Engine speed sender
- G79 Accelerator position sender
- G81 Fuel temperature sender
- G185 Accelerator position sender 2
- G212 Exhaust gas recirculation potentiometer
- G247 Fuel pressure sender
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- T6k 6-pin connector, black, near accelerator position sender
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- 220 Earth connection (sender earth), in engine wiring harness
- 388 Earth connection 23, in main wiring harness
- B537 Connection 28 in main wiring harness
- D141 Connection (5V), in engine wiring harness

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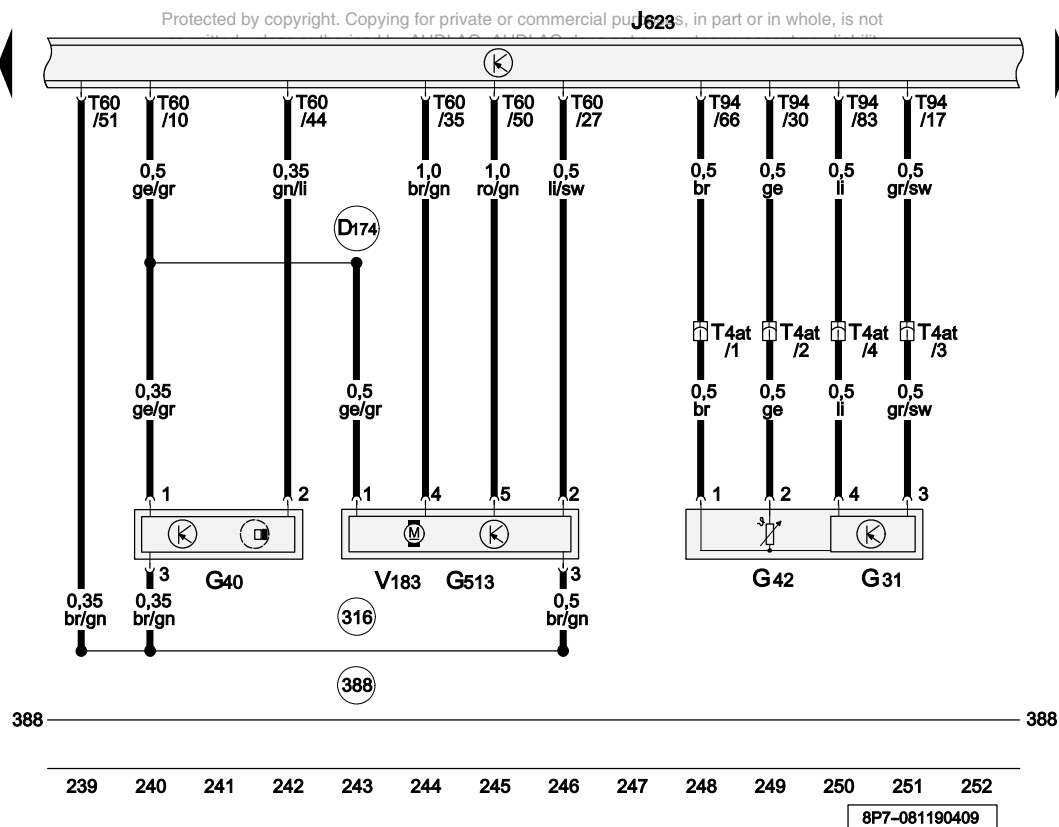
Intake air temperature sender, charge air pressure sender, variable intake manifold motor, Hall sender

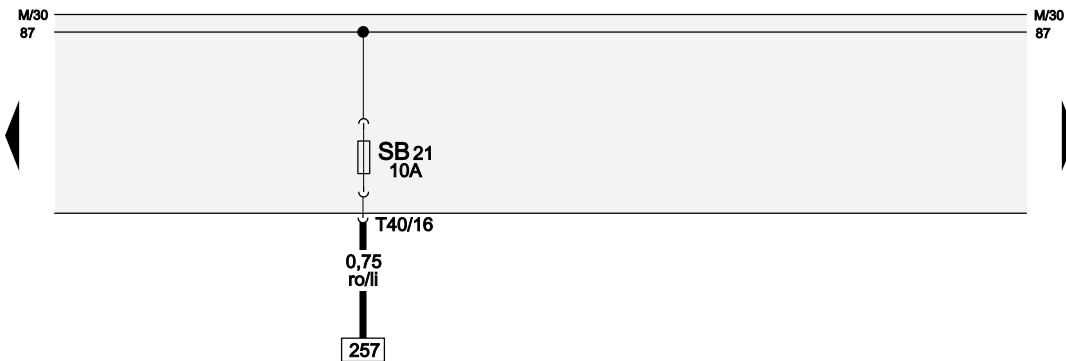
- G31 Charge air pressure sender
- G40 Hall sender
- G42 Intake air temperature sender
- G513 Variable intake manifold position sender
- J623 Engine control unit
- T4at 4-pin connector, black, near starter
- T60 60-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)
- V183 Variable intake manifold motor

316 Earth connection (sender earth 2), in engine wiring harness

388 Earth connection 23, in main wiring harness

D174 Connection 2 (5V), in engine wiring harness



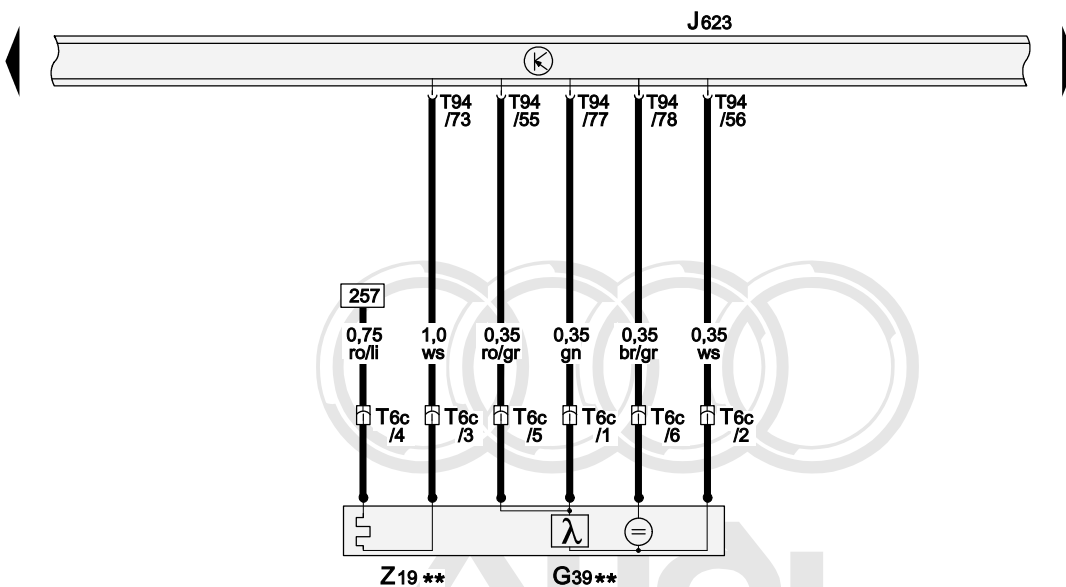


Lambda probe

- G39 Lambda probe
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T6c 6-pin connector, black, on Lambda probe upstream of catalytic converter
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T94 94-pin connector, black (connector B)
- Z19 Lambda probe heater

388 Earth connection 23, in main wiring harness

** dropped for models with exhaust concept EU3



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388

388

253 254 255 256 257 258 259 260 261 262 263 264 265 266

8P7-081200409



Drive train CAN bus, diagnosis

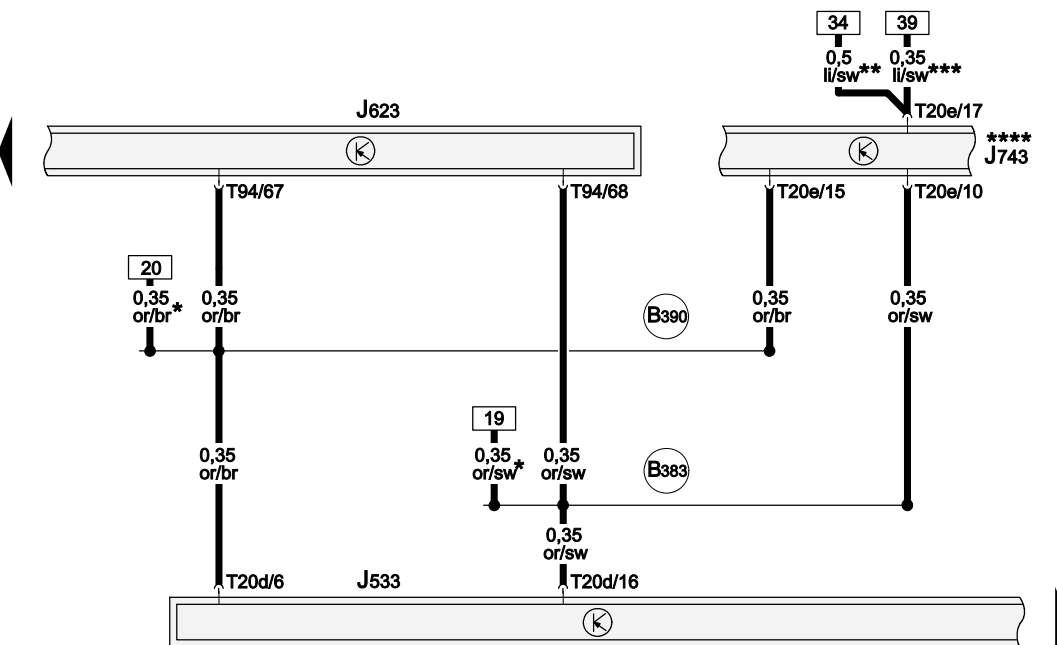
- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T20d 20-pin connector, black (connector A)
- T20e 20-pin connector, black (connector A)
- T94 94-pin connector, black (connector B)

388 Earth connection 23, in main wiring harness

B383 Connection 1 (drive train CAN bus, high), in main wiring harness

B390 Connection 1 (drive train CAN bus, low), in main wiring harness

- * for models with CAN bus drive train only
- ** only models without stop/start system
- *** only models with stop/start system
- **** for models with automatic gearbox only



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- or = orange
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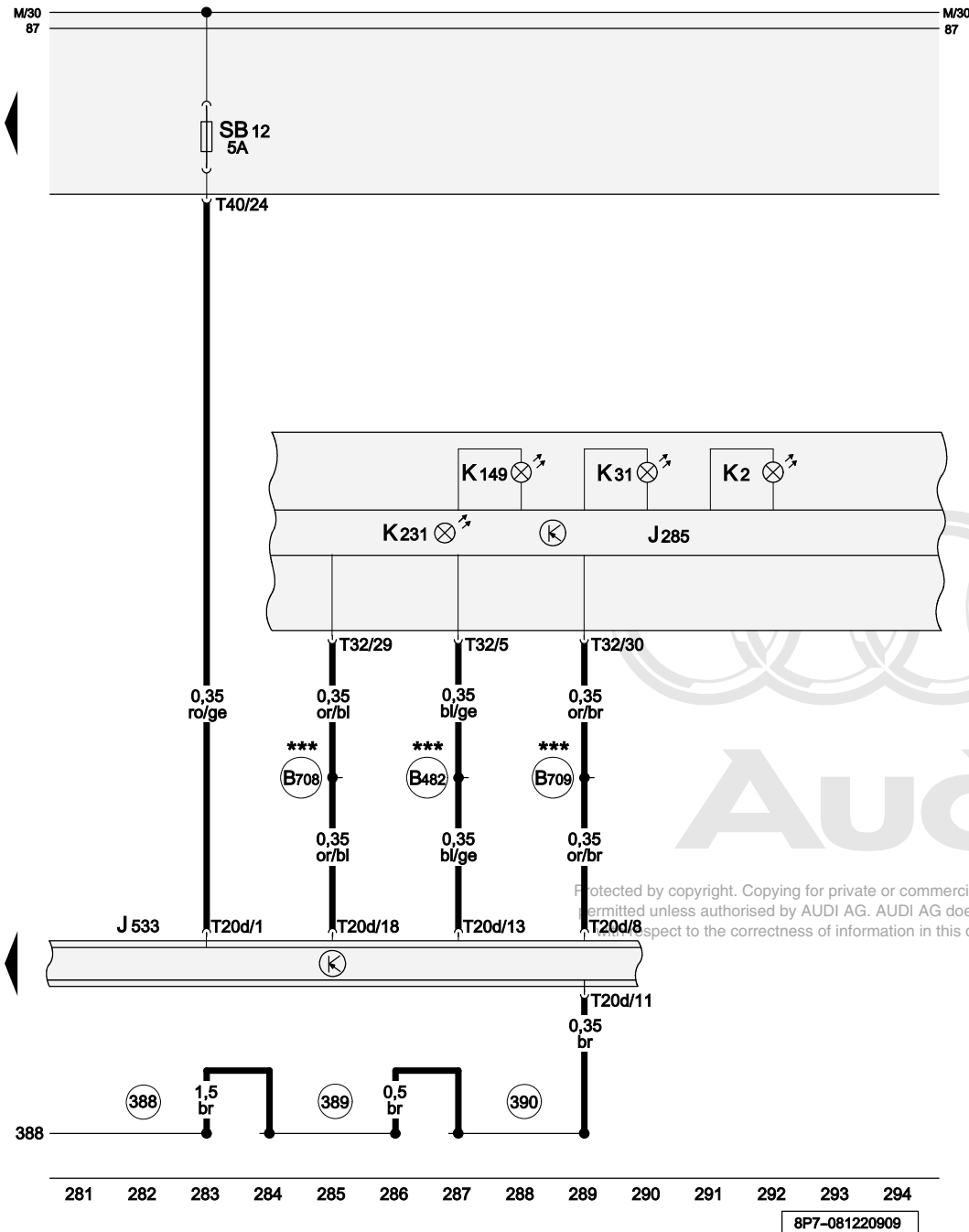


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388 388

267 268 269 270 271 272 273 274 275 276 277 278 279 280

8P7-081210409



Data bus diagnostic interface

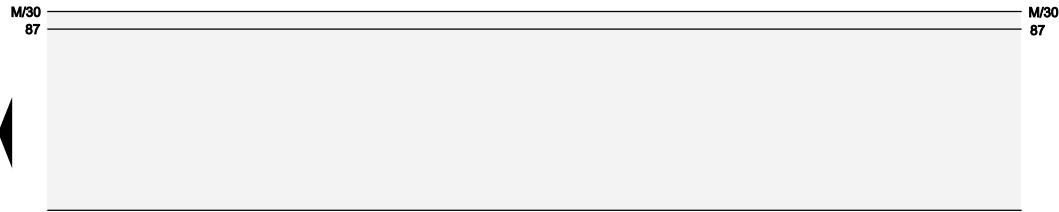
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- K231 Diesel particulate filter warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector, black (connector A)
- T32 32-pin connector, blue (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus, high), in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus, low), in main wiring harness
- *** No longer fitted, phased-in modification

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8P7-081220909



Oil pressure switch, oil level and oil temperature sender

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, black, near longitudinal member, front left
- T14 14-pin connector, black, near longitudinal member, front left
- T32 32-pin connector, blue (connector A)

381 Earth connection 16, in main wiring harness

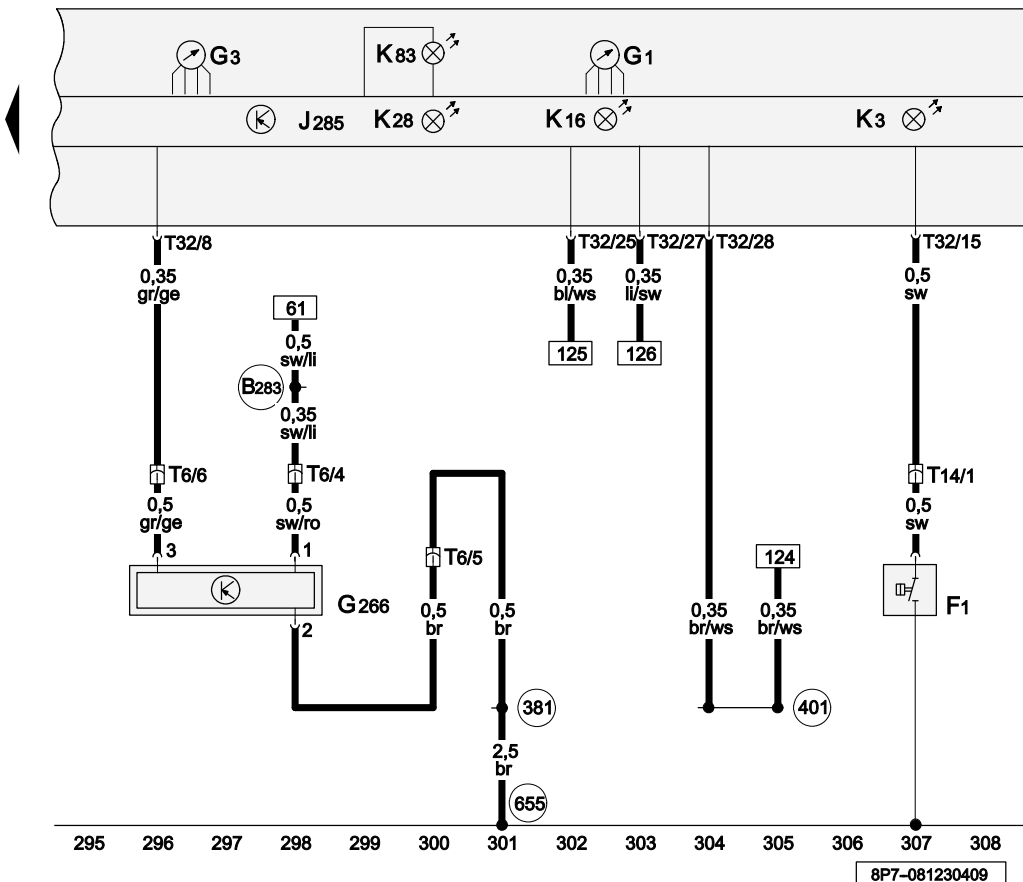
401 Earth connection (sender earth), in interior wiring harness

655 Earth point, on left headlight

B283 Positive connection 7 (15a), in main wiring harness

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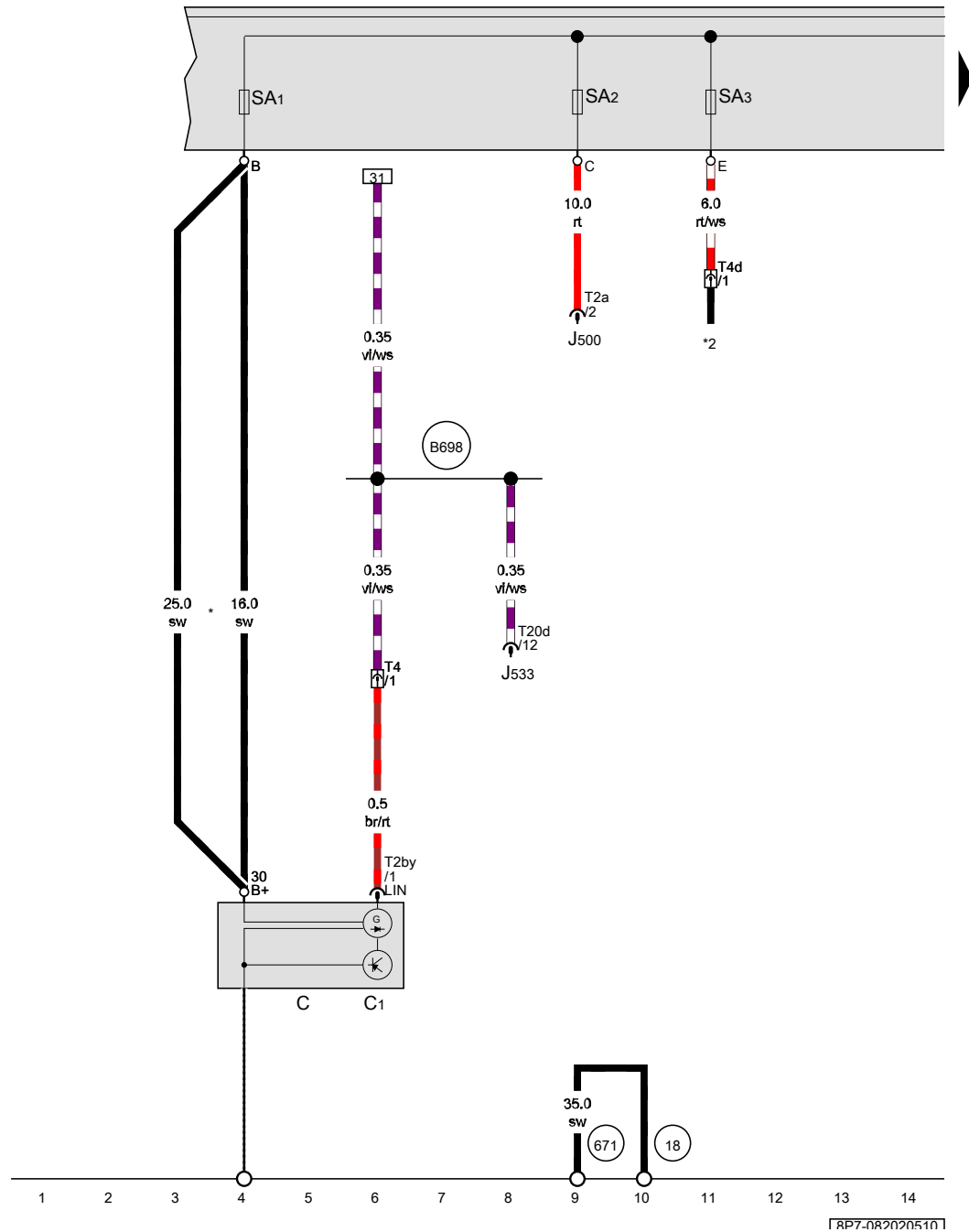


Battery in engine compartment with start/stop system and energy recovery

From May 2009



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Alternator, Fuse 1 in fuse holder A, Fuse 2 in fuse holder A, Fuse 3 in fuse holder A

- C Alternator
- C1 Voltage regulator
- J500 Power steering control unit
- J533 Data bus diagnostic interface
- SA1 Fuse 1 in fuse holder A
- SA2 Fuse 2 in fuse holder A
- SA3 Fuse 3 in fuse holder A
- T2a 2-pin connector
- T2by 2-pin connector
- T4 4-pin connector
- T4d 4-pin connector
- T20d 20-pin connector

18 Earth point, on cylinder block

671 Earth point 1, on front of left longitudinal member

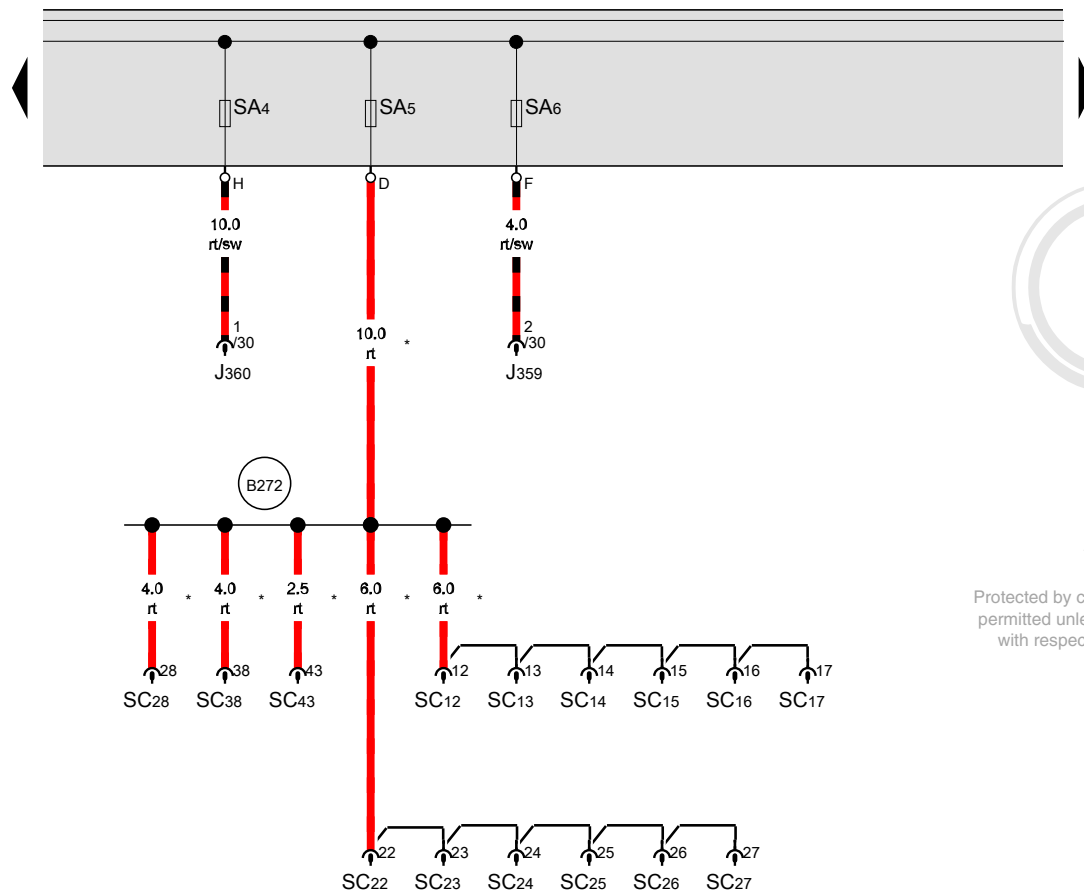
B698 Connection 3 (LIN bus) in main wiring harness

* Only models with 140A alternator

*2 see applicable current flow diagram for radiator fan

- ws = white
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Fuse 4 in fuse holder A, Fuse 5 in fuse holder A, Fuse 6 in fuse holder A

- J359 Low heat output relay
- J360 High heat output relay
- SA4 Fuse 4 in fuse holder A
- SA5 Fuse 5 in fuse holder A
- SA6 Fuse 6 in fuse holder A
- SC12 Fuse 12 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- SC14 Fuse 14 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- SC17 Fuse 17 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC23 Fuse 23 on fuse holder C
- SC24 Fuse 24 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- SC26 Fuse 26 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC28 Fuse 28 on fuse holder C
- SC38 Fuse 38 on fuse holder C
- SC43 Fuse 43 on fuse holder C

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B272 Positive connection (30), in main wiring harness
* see applicable current flow diagram

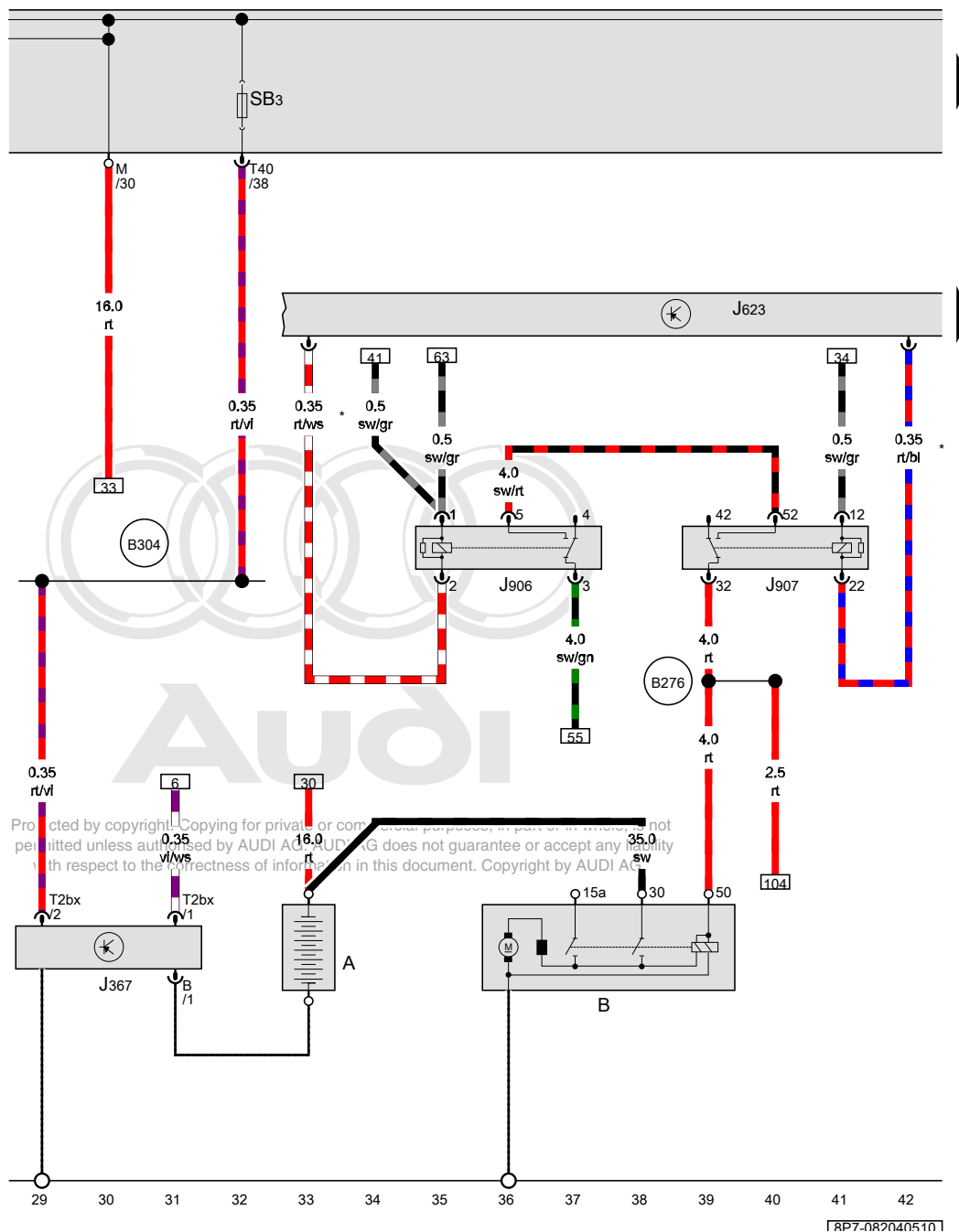
Battery, Starter, Engine control unit, Starter relay 1, Starter relay 2

- A Battery
- B Starter
- J367 Battery monitor control unit
- J623 Engine control unit
- J906 Starter relay 1
- J907 Starter relay 2
- SB3 Fuse 3 on fuse holder B
- T1a Single connector
- T2bx 2-pin connector
- T40 40-pin connector

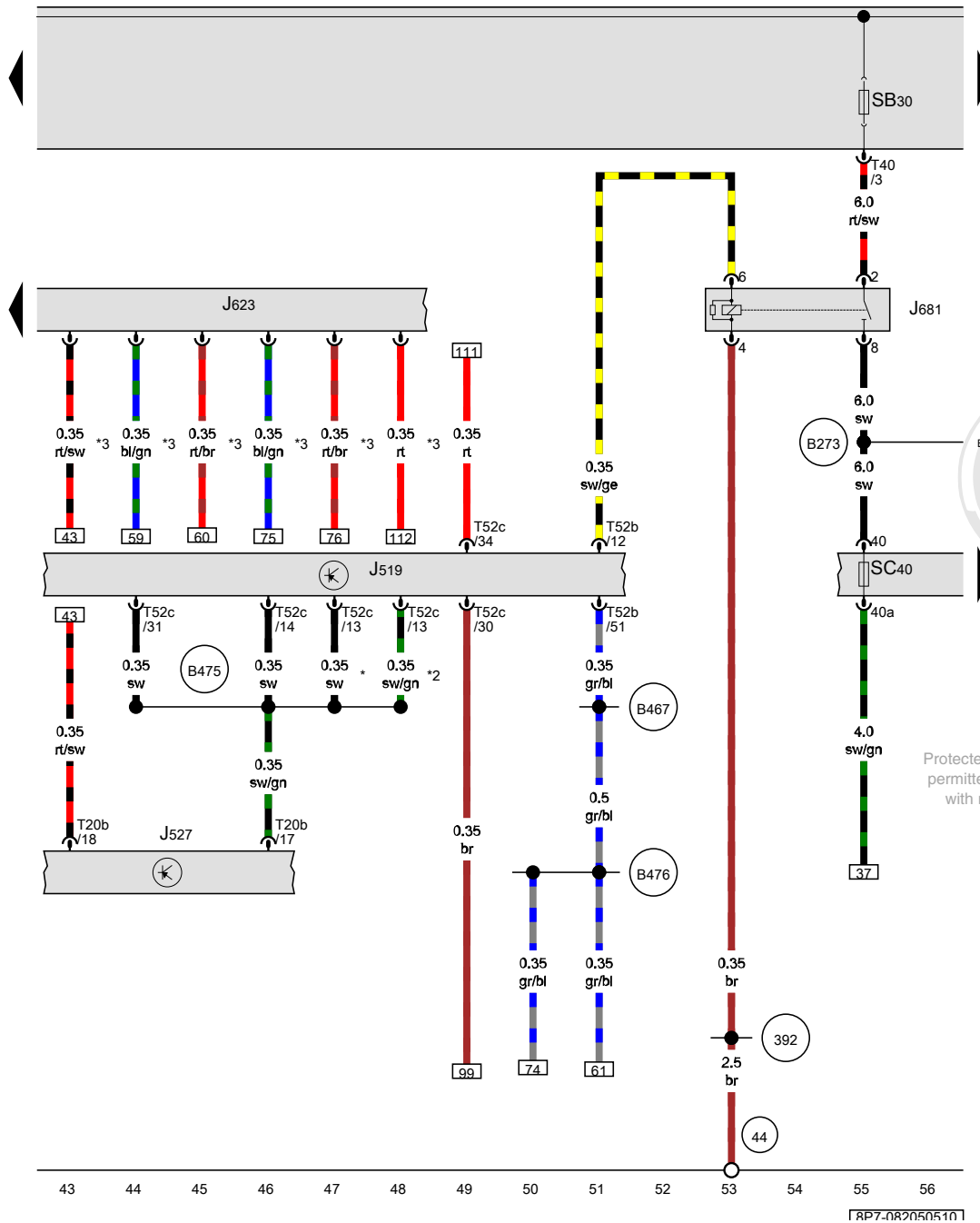
(B276) Positive connection (50), in main wiring harness

(B304) Positive connection 8 (30), in main wiring harness

* see applicable current flow diagram for engine

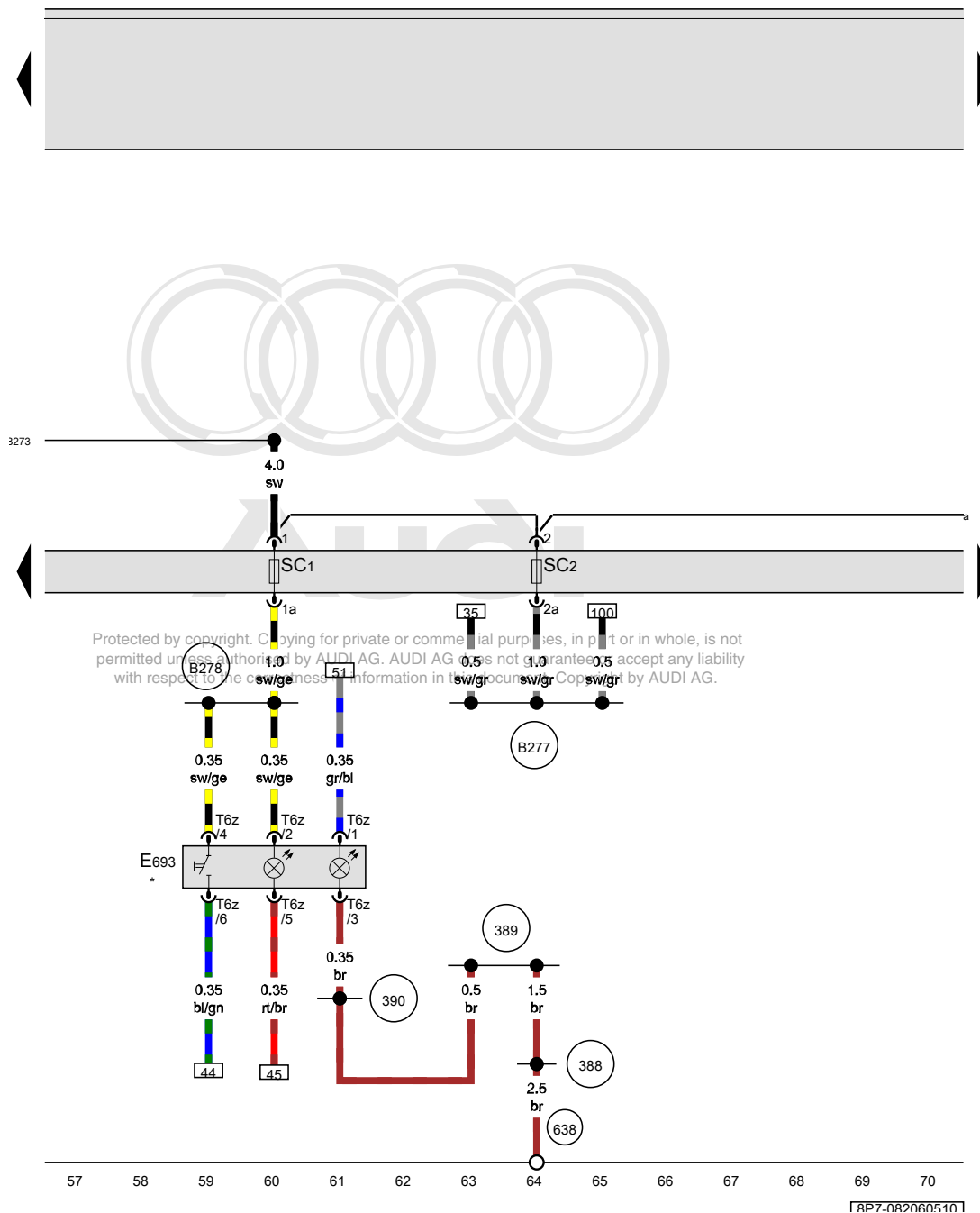


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Start/Stop operation button

E693 Start/Stop operation button

SC1 Fuse 1 on fuse holder C

SC2 Fuse 2 on fuse holder C

T6z 6-pin connector

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

390 Earth connection 25, in main wiring harness

638 Earth point, on right A-pillar

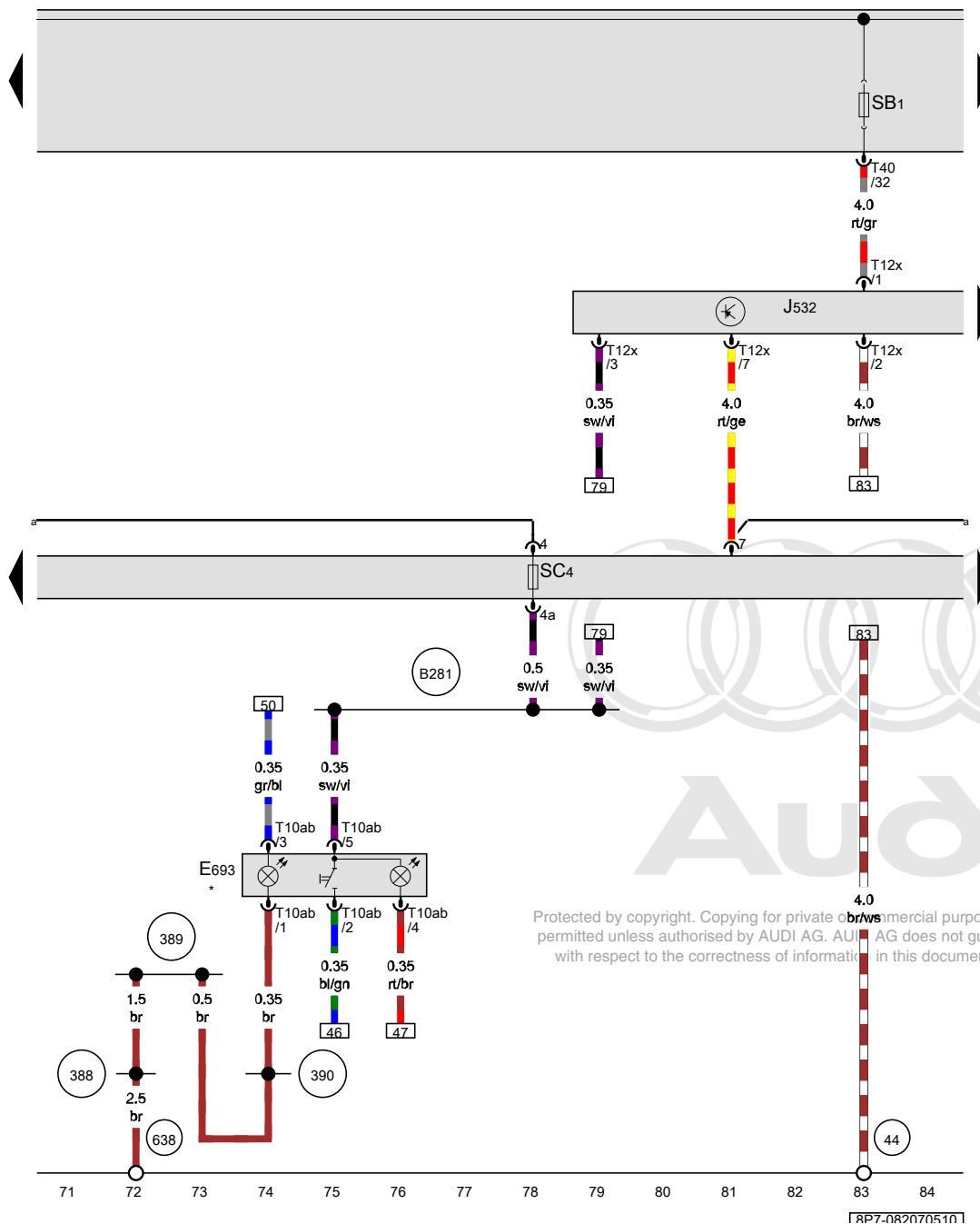
B273 Positive connection (15), in main wiring harness

B277 Positive connection 1 (15a) in main wiring harness

B278 Positive connection 2 (15a) in main wiring harness

* Gradually discontinued

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rs = pink



Start/Stop operation button, Voltage stabiliser

E693 Start/Stop operation button

J532 Voltage stabiliser

SB1 Fuse 1 on fuse holder B

SC4 Fuse 4 on fuse holder C

T10ab 10-pin connector

T12x 12-pin connector

T40 40-pin connector

44 Earth point, lower part of left A-pillar

388 Earth connection 23, in main wiring harness

389 Earth connection 24, in main wiring harness

390 Earth connection 25, in main wiring harness

638 Earth point, on right A-pillar

B281 Positive connection 5 (15a) in main wiring harness

* gradual introduction

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Voltage stabiliser

- J285 Control unit in dash panel insert
- J402 Navigation operating electronics control unit
- J503 Control unit with display for radio and navigation
- J532 Voltage stabiliser
- R Radio
- R36 Telephone transmitter and receiver unit
- R199 Connection for external audio sources
- SC8 Fuse 8 on fuse holder C
- SC9 Fuse 9 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- T12y 12-pin connector
- T16g 16-pin connector
- T18a 18-pin connector
- T32 32-pin connector
- T54 54-pin connector

B299 Positive connection 3 (30), in main wiring harness

V37 Positive connection (30), in communication wiring harness

* According to equipment

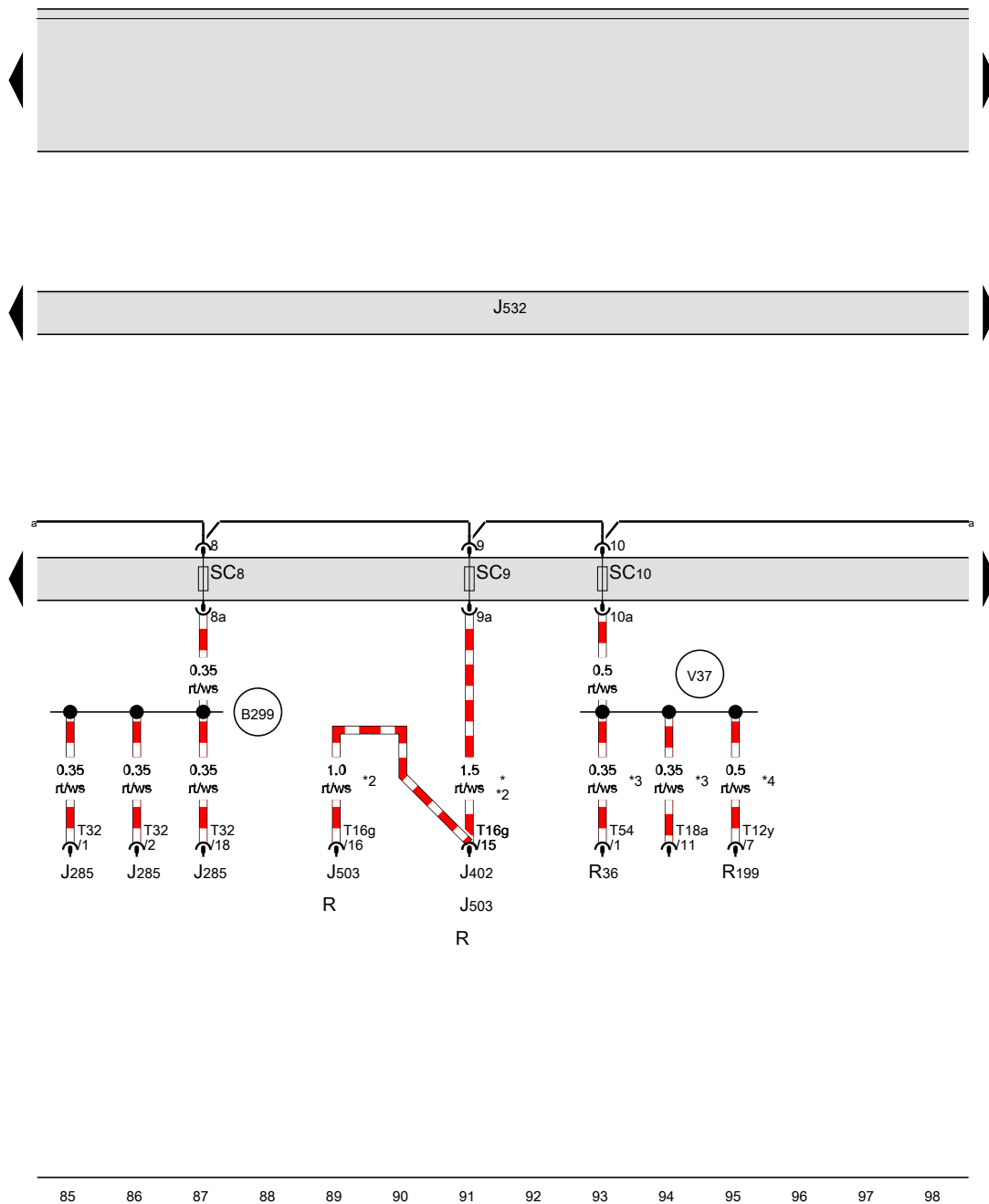
*2 see applicable current flow diagram for radio/ radio navigation system

*3 see applicable current flow diagram for preparation for mobile telephone

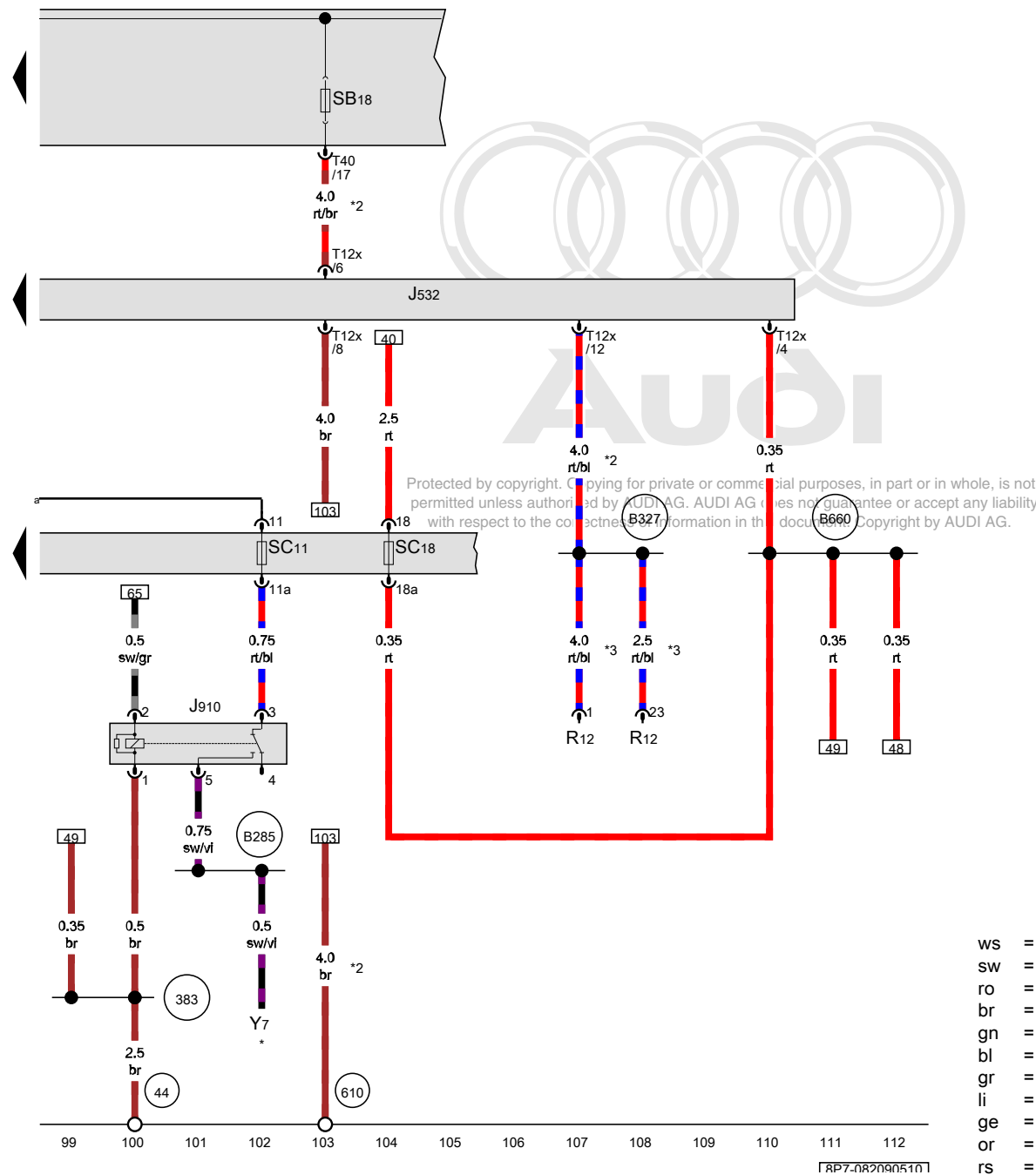
*4 see applicable current flow diagram for radio/navigation system

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101050807-AP7





Battery in engine compartment

⇒ Main fuse holder, electronics box low

⇒ With recuperation only (7L7)

from May 2009

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

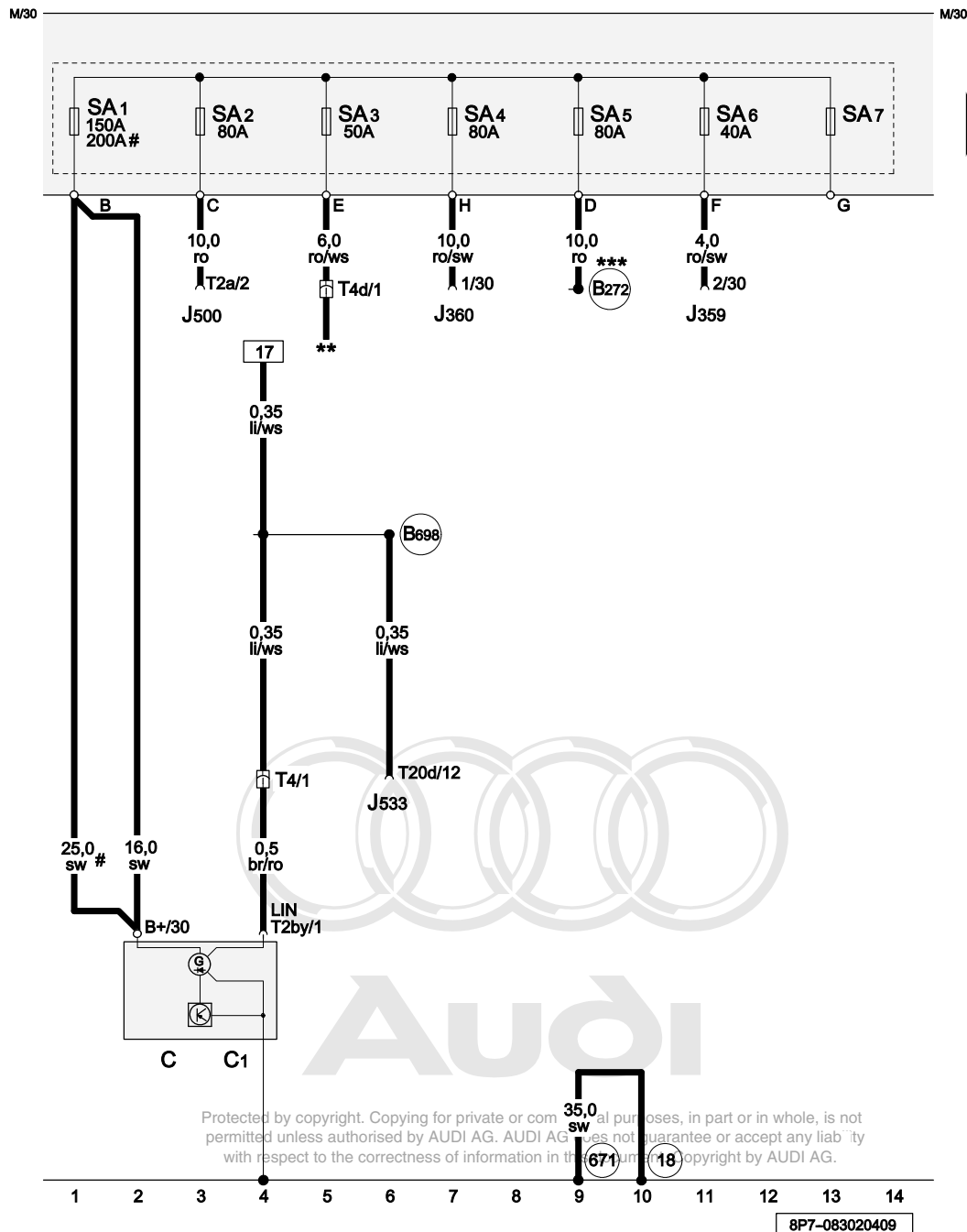
◆ Fault Finding Programs

⇒ guided fault finding



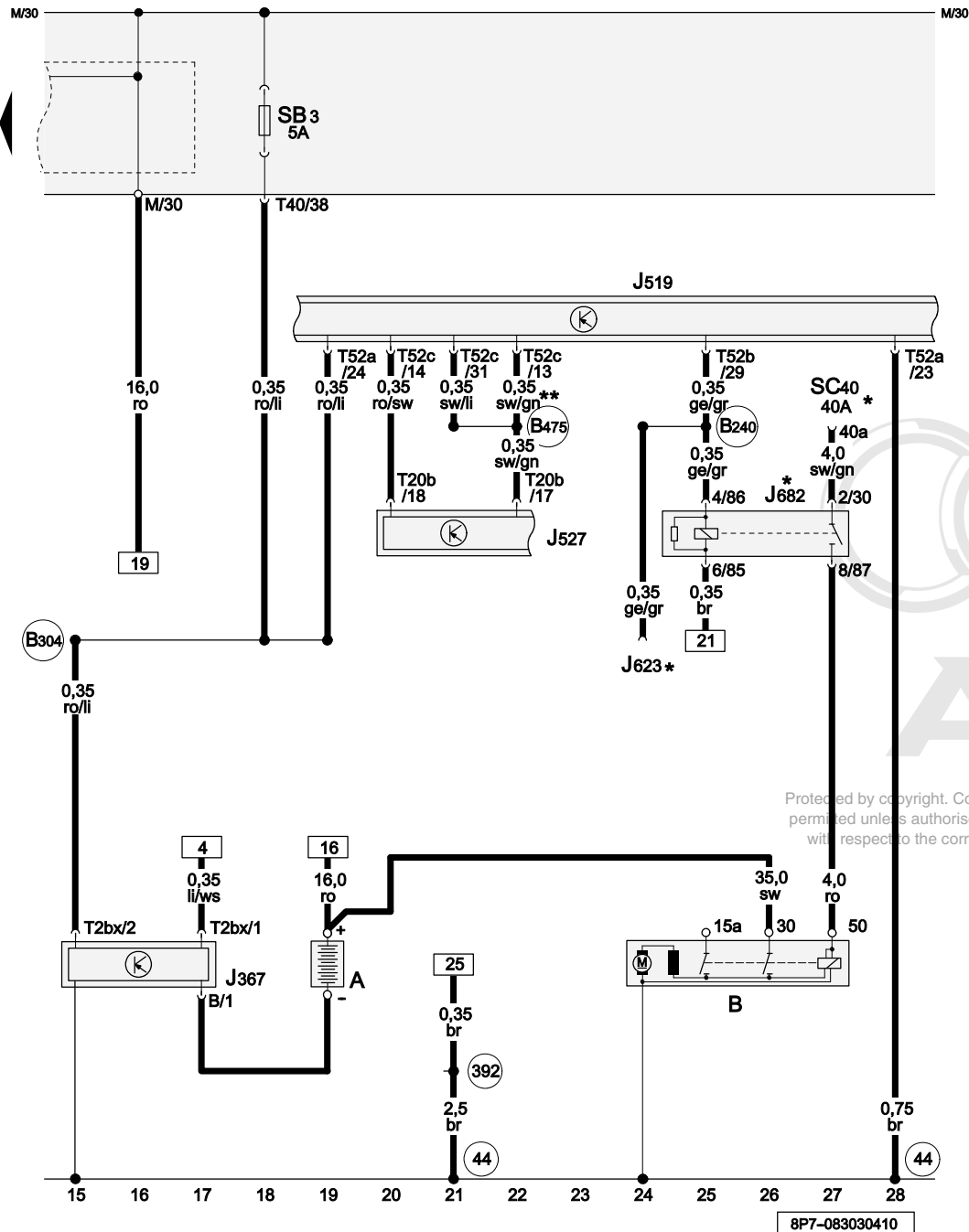
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Alternator, fuses SA1 up to SA7

- C Alternator
- C1 Voltage regulator
- J359 Low heat output relay
- J360 High heat output relay
- J500 Power steering control unit
- J533 Data bus diagnostic interface
- SA1 Fuse 1 on fuse holder A
- SA2 Fuse 2 on fuse holder A
- SA3 Fuse 3 on fuse holder A
- SA4 Fuse 4 on fuse holder A
- SA5 Fuse 5 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SA7 Fuse 7 on fuse holder A
- T2a 2-pin connector, black (connector A)
- T2by 2-pin connector (connector A)
- T4 4-pin connector, black, in front left engine compartment
- T4d 4-pin connector, black, on radiator fan (front end)
- T20d 20-pin connector, black (connector A)
- 18 Earth point on engine block
- 671 Earth point 1, on front of left longitudinal member
- B272 Positive connection (30), in main wiring harness
- B698 Connection 3 (LIN bus), in main wiring harness
- ** ⇒ applicable Current Flow Diagram: radiator fan control
- *** supply for the fuses SC12 up to SC17, SC22 up to SC27, SC28, SC38, SC43
- # for models with alternator (140A) only



Starter, battery, terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- SB3 Fuse 3 on fuse holder B
- SC40 Fuse 40 on fuse holder C
- T2bx 2-pin connector (connector C)
- T20b 20-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52a 52-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B240 Positive connection 2 (50), in interior wiring harness
- B304 Positive connection 8 (30), in main wiring harness
- * ⇒ applicable engine Current Flow Diagram
- ** Wire colour was modified from black/green to black, for models with diesel engine only

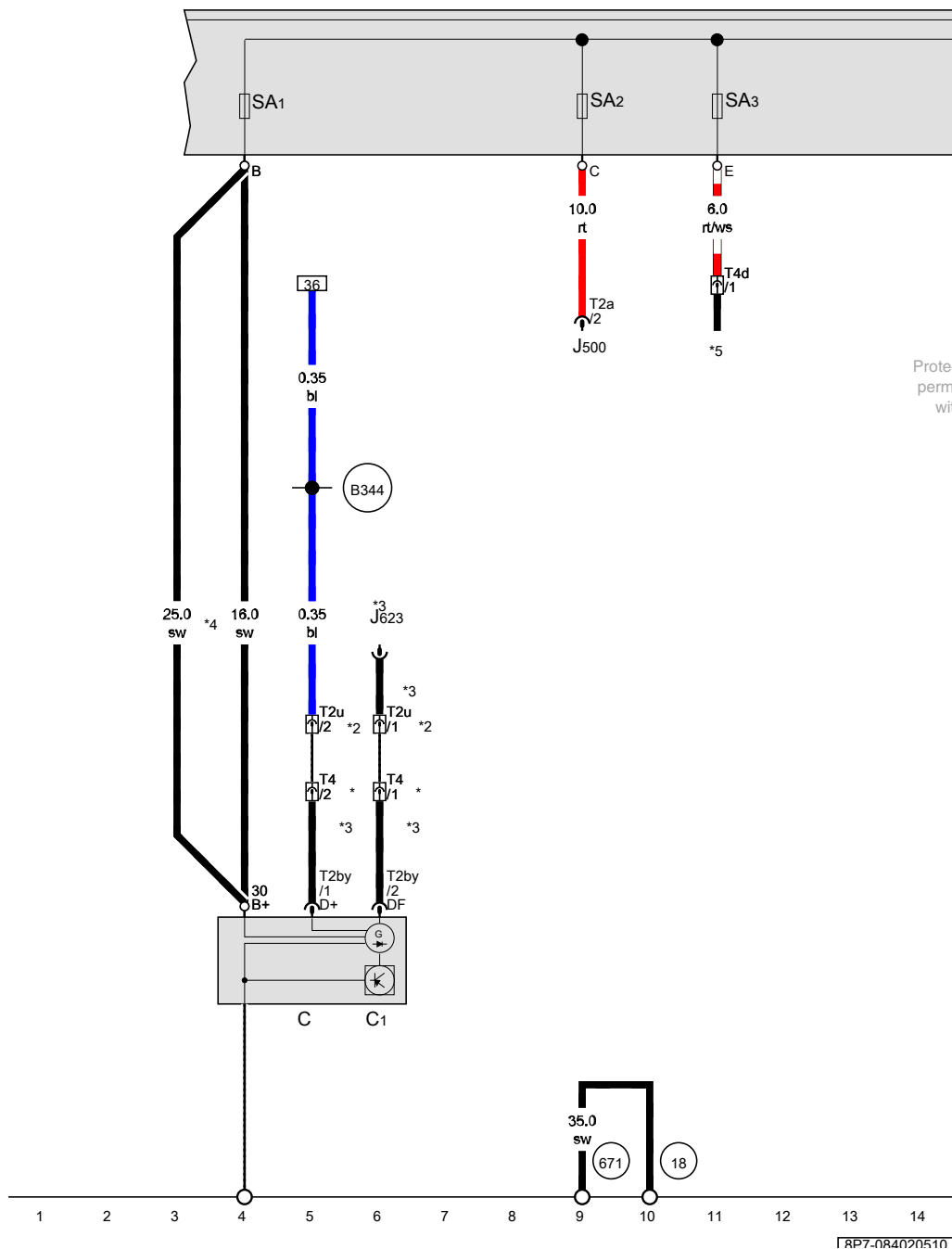
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Battery in engine compartment with no start/stop system and no energy recovery

From May 2009



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Alternator, Fuse 1 in fuse holder A, Fuse 2 in fuse holder A, Fuse 3 in fuse holder A

- C Alternator
- C1 Voltage regulator
- J500 Power steering control unit
- J623 Engine control unit
- SA1 Fuse 1 in fuse holder A
- SA2 Fuse 2 in fuse holder A
- SA3 Fuse 3 in fuse holder A
- T2a 2-pin connector
- T2by 2-pin connector
- T2u 2-pin connector
- T4 4-pin connector
- T4d 4-pin connector

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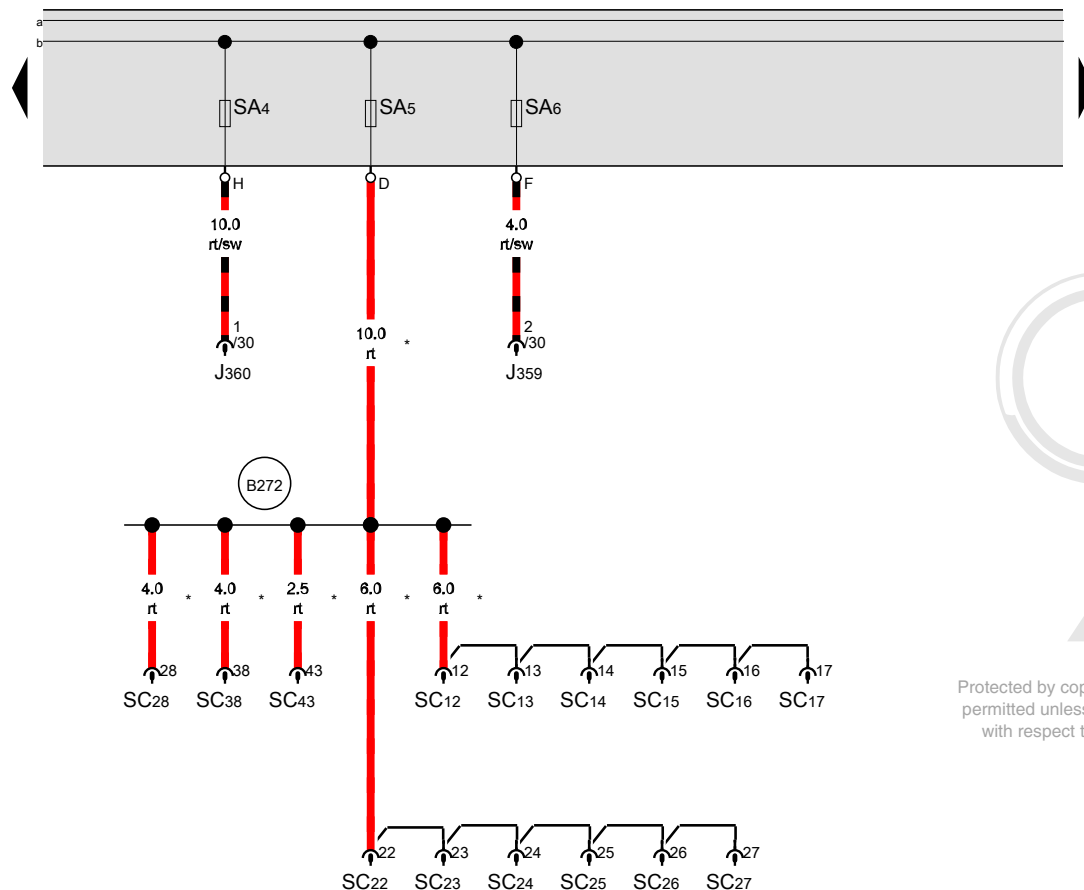
18 Earth point, on cylinder block

671 Earth point 1, on front of left longitudinal member

B344 Connection 1 (61), in main wiring harness

- * Only models with air conditioning system
- *2 Only models with no air conditioning system
- *3 see applicable current flow diagram for engine
- *4 Only models with 140A alternator
- *5 see applicable current flow diagram for radiator fan

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Fuse 4 in fuse holder A, Fuse 5 in fuse holder A, Fuse 6 in fuse holder A

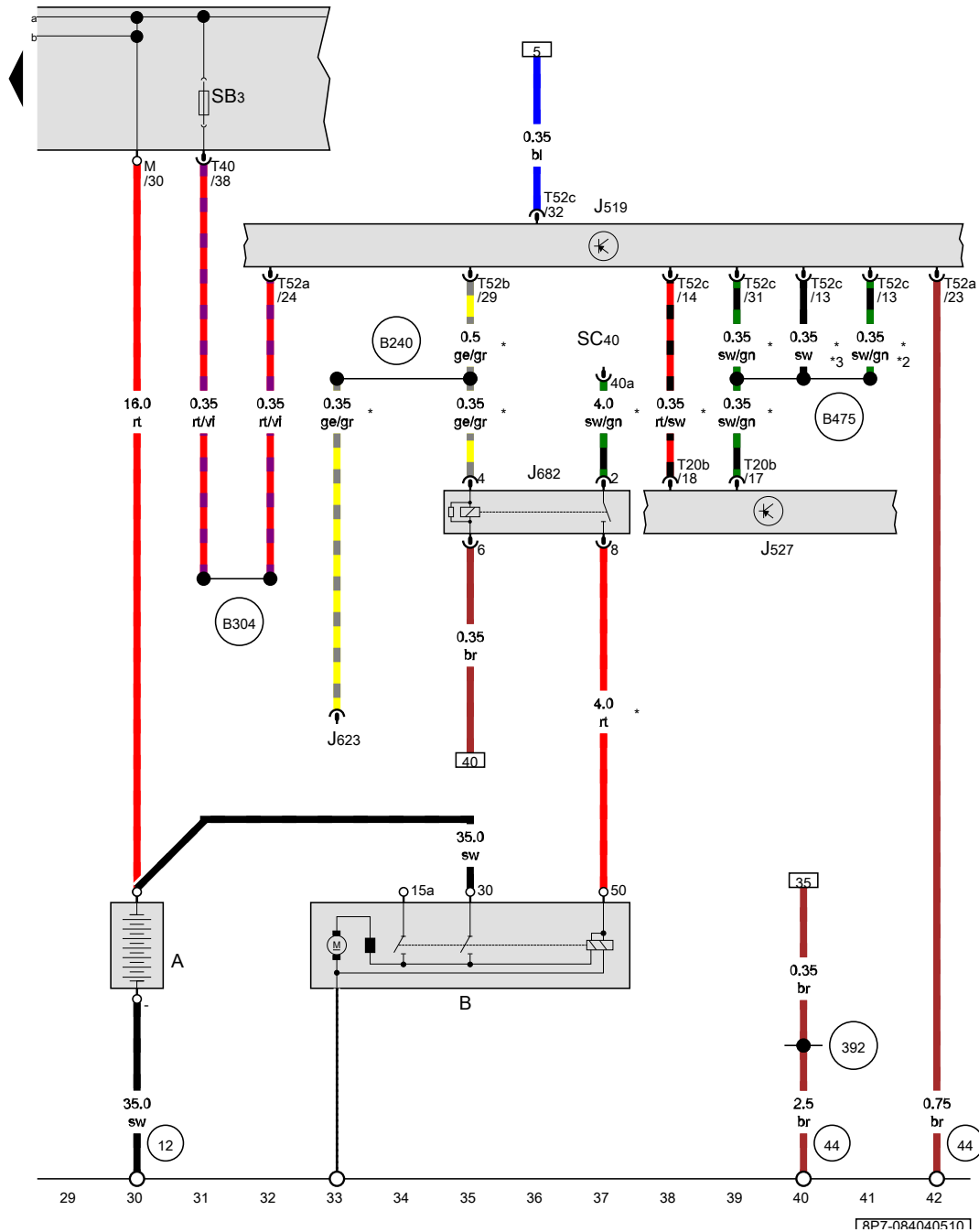
- J359 Low heat output relay
- J360 High heat output relay
- SA4 Fuse 4 in fuse holder A
- SA5 Fuse 5 in fuse holder A
- SA6 Fuse 6 in fuse holder A
- SC12 Fuse 12 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- SC14 Fuse 14 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- SC17 Fuse 17 on fuse holder C
- SC22 Fuse 22 on fuse holder C
- SC23 Fuse 23 on fuse holder C
- SC24 Fuse 24 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- SC26 Fuse 26 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC28 Fuse 28 on fuse holder C
- SC38 Fuse 38 on fuse holder C
- SC43 Fuse 43 on fuse holder C

B272 Positive connection (30), in main wiring harness

* see applicable current flow diagram

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Battery, Starter, Terminal 50 voltage supply relay

- A Battery
- B Starter
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- SB3 Fuse 3 on fuse holder B
- SC40 Fuse 40 on fuse holder C
- T1 Single connector
- T20b 20-pin connector
- T40 40-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 12 Earth point, on left in engine compartment
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- B240 Positive connection 2 (50), in interior wiring harness
- B304 Positive connection 8 (30), in main wiring harness
- B475 Connection 11, in main wiring harness

* see applicable current flow diagram for engine

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Gas discharge headlights (bi-xenon) with automatic headlight range control, cornering light, LED daytime running lights

From May 2009



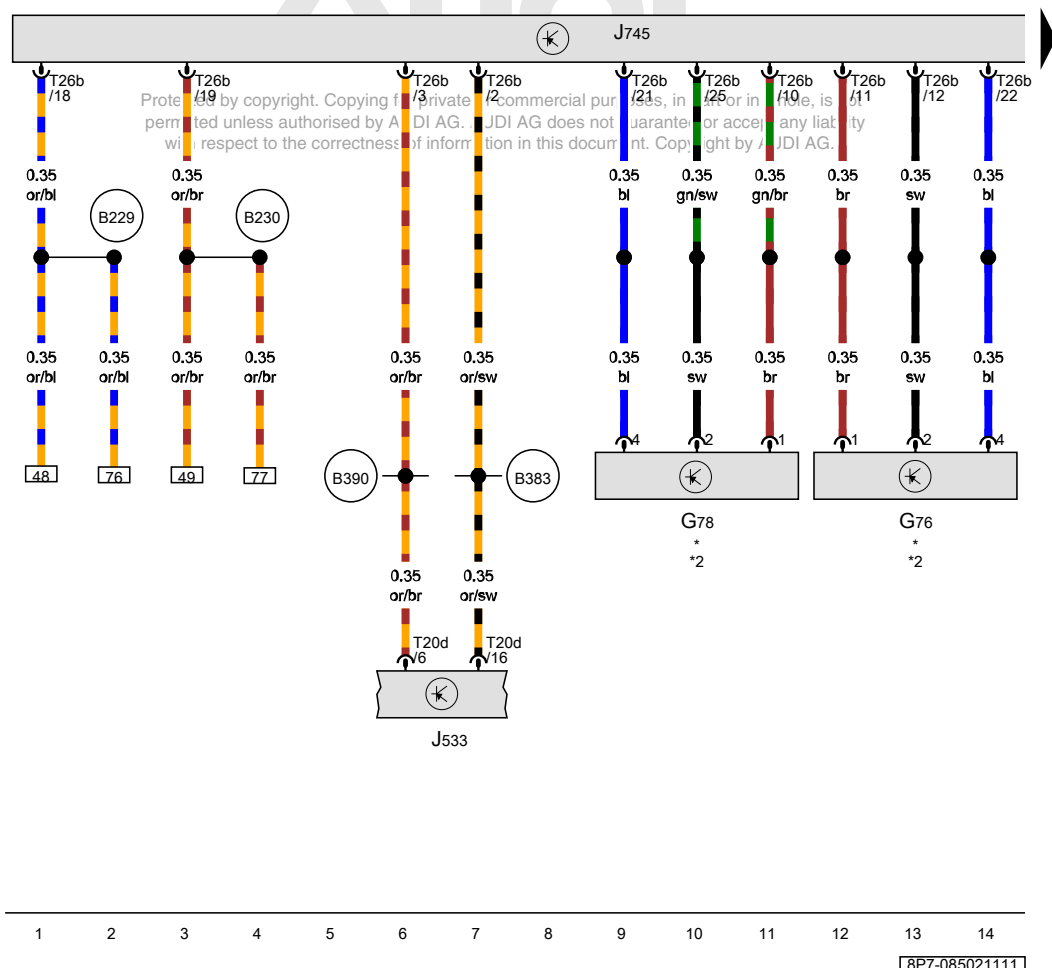
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Rear left vehicle level sender, Front left vehicle level sender, Control unit for cornering light and headlight range control

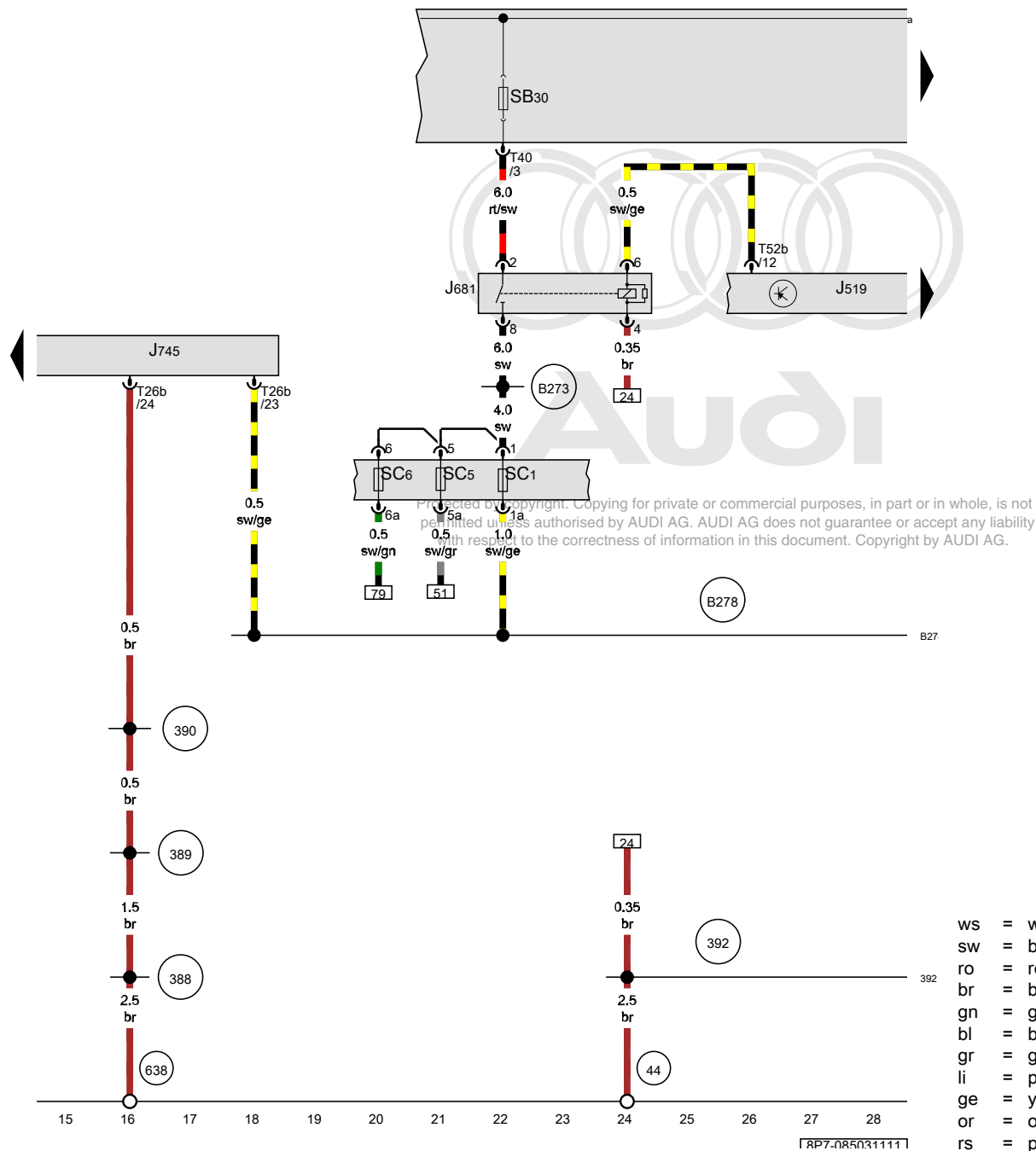
- G76 Rear left vehicle level sender
- G78 Front left vehicle level sender
- J533 Data bus diagnostic interface
- J745 Control unit for cornering light and headlight range control
- T20d 20-pin connector
- T26b 26-pin connector

- B229 Connection (high bus), in interior wiring harness
- B230 Connection (low bus), in interior wiring harness
- B383 Connection 1 (powertrain CAN bus, high), in main wiring harness
- B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

- * According to equipment
- *2 Only models with no electronic damping control



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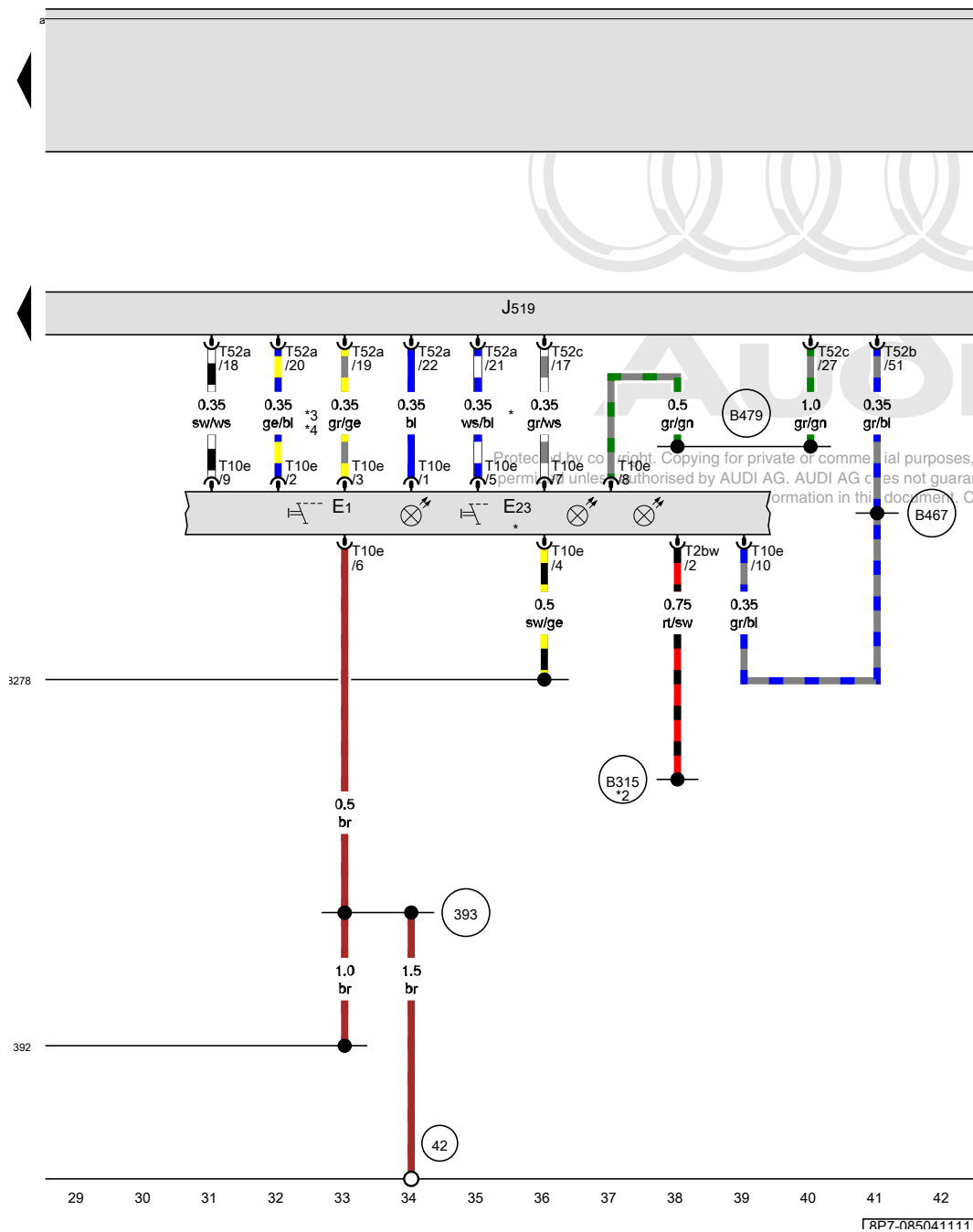


Onboard supply control unit, Terminal 15 voltage supply relay 2, Control unit for cornering light and headlight range control

- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- J745 Control unit for cornering light and headlight range control
- SC1 Fuse 1 on fuse holder C
- SC5 Fuse 5 on fuse holder C
- SC6 Fuse 6 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T26b 26-pin connector
- T40 40-pin connector
- T52b 52-pin connector

- 44 Earth point, lower part of left A-pillar
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, on right A-pillar
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness

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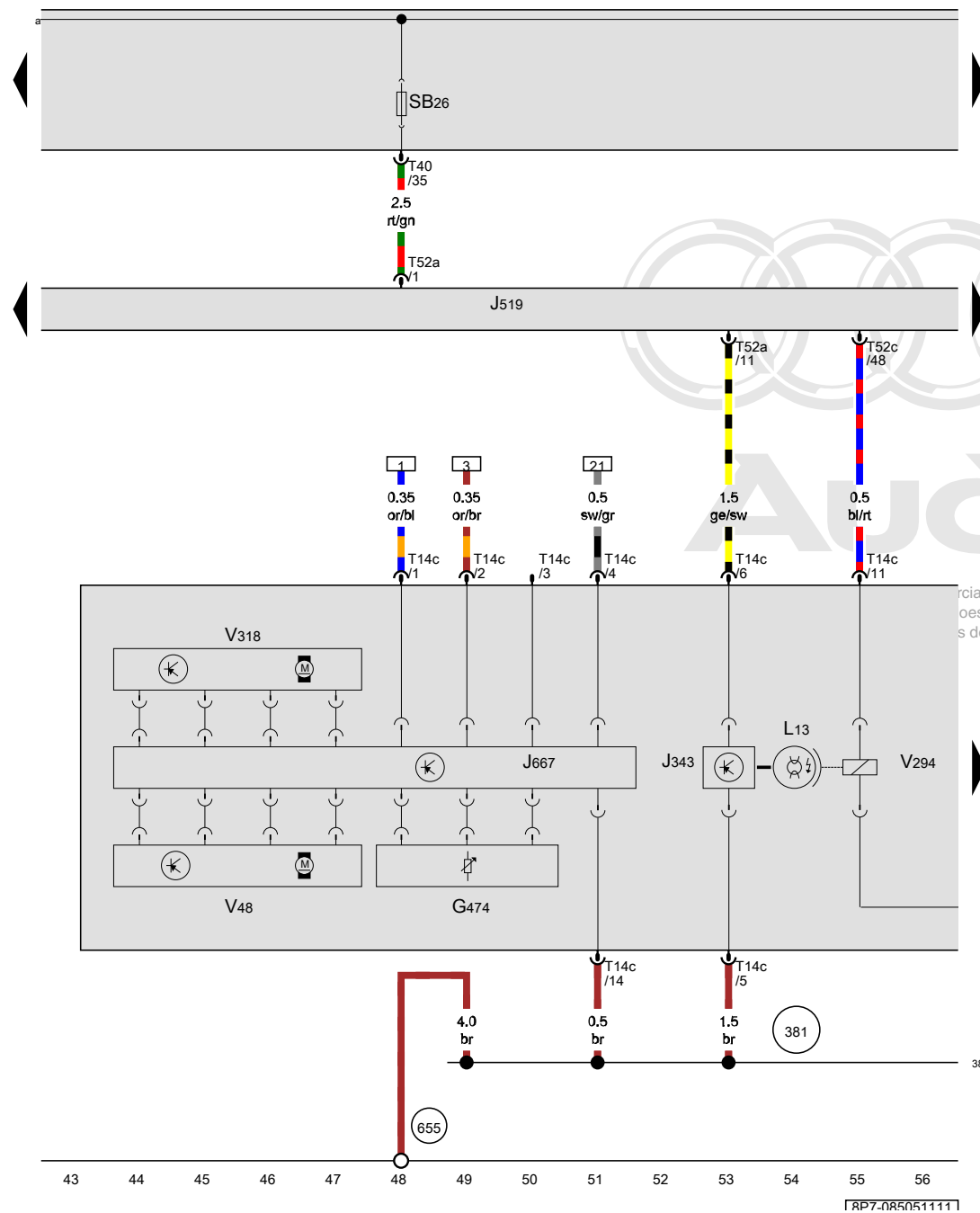
Light switch, Front and rear fog light switch, Onboard supply control unit

- E1 Light switch
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- T2bw 2-pin connector
- T10e 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 42 Earth point, next to steering column
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B315 Positive connection 1 (30a) in main wiring harness
- B467 Connection 3, in main wiring harness
- B479 Connection 15, in main wiring harness

- * Only models with fog lights
- *2 see applicable current flow diagram for basic equipment
- *3 Only models with daytime running lights
- *4 Only models with automatic driving lights control

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Onboard supply control unit, Output module for left headlight, Left gas discharge (xenon) bulb, Left headlight range control motor, Left dip beam screen motor, Left dynamic cornering light control motor

- G474 Left swivel module position sensor
- J343 Left gas discharge bulb control unit
- J519 Onboard supply control unit
- J667 Output module for left headlight
- L13 Left gas discharge (xenon) bulb
- SB26 Fuse 26 on fuse holder B
- T14c 14-pin connector
- T40 40-pin connector
- T52a 52-pin connector
- T52c 52-pin connector
- V48 Left headlight range control motor
- V294 Left dip beam screen motor
- V318 Left dynamic cornering light control motor

381 Earth connection 16, in main wiring harness

655 Earth point, on left headlight

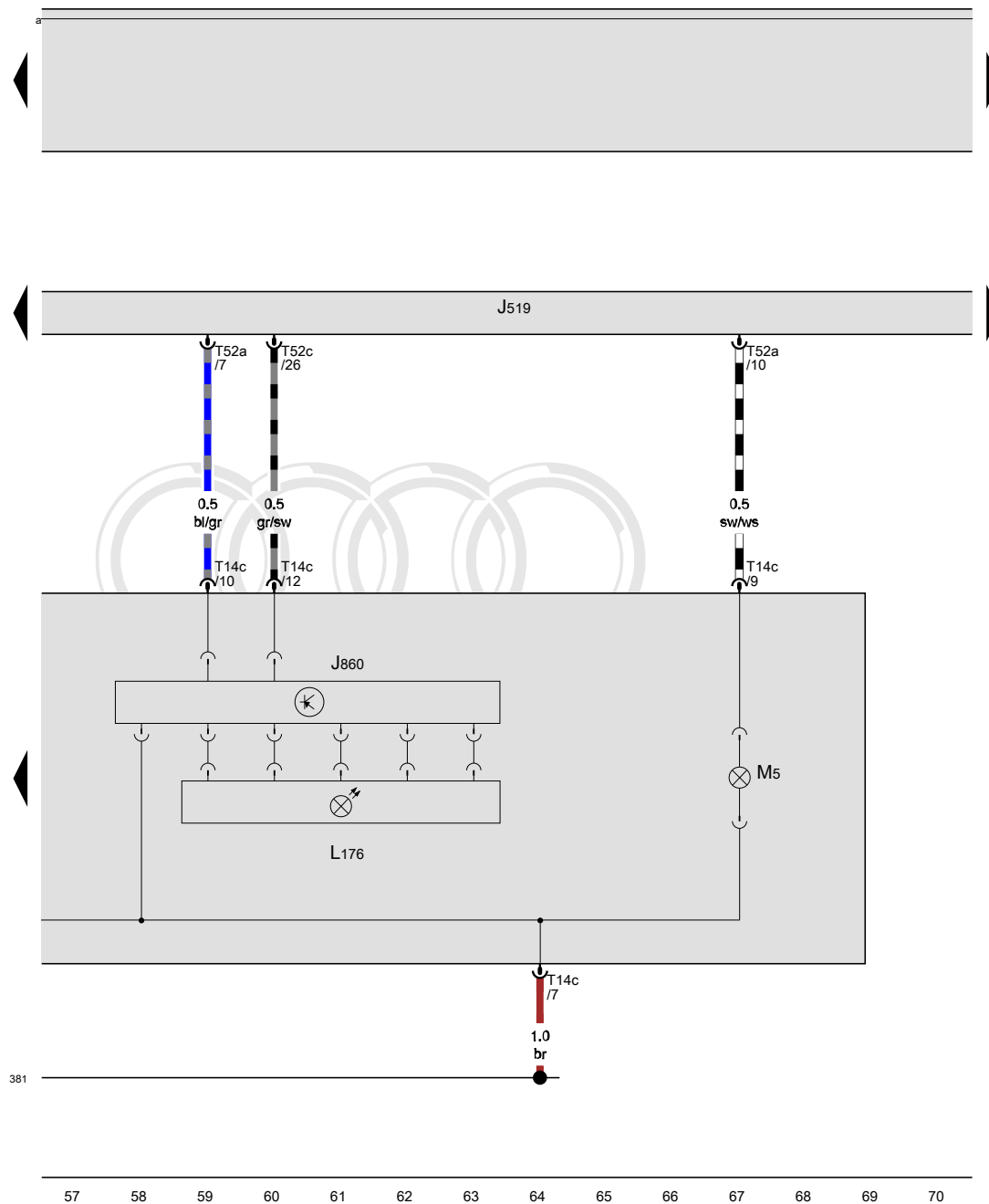
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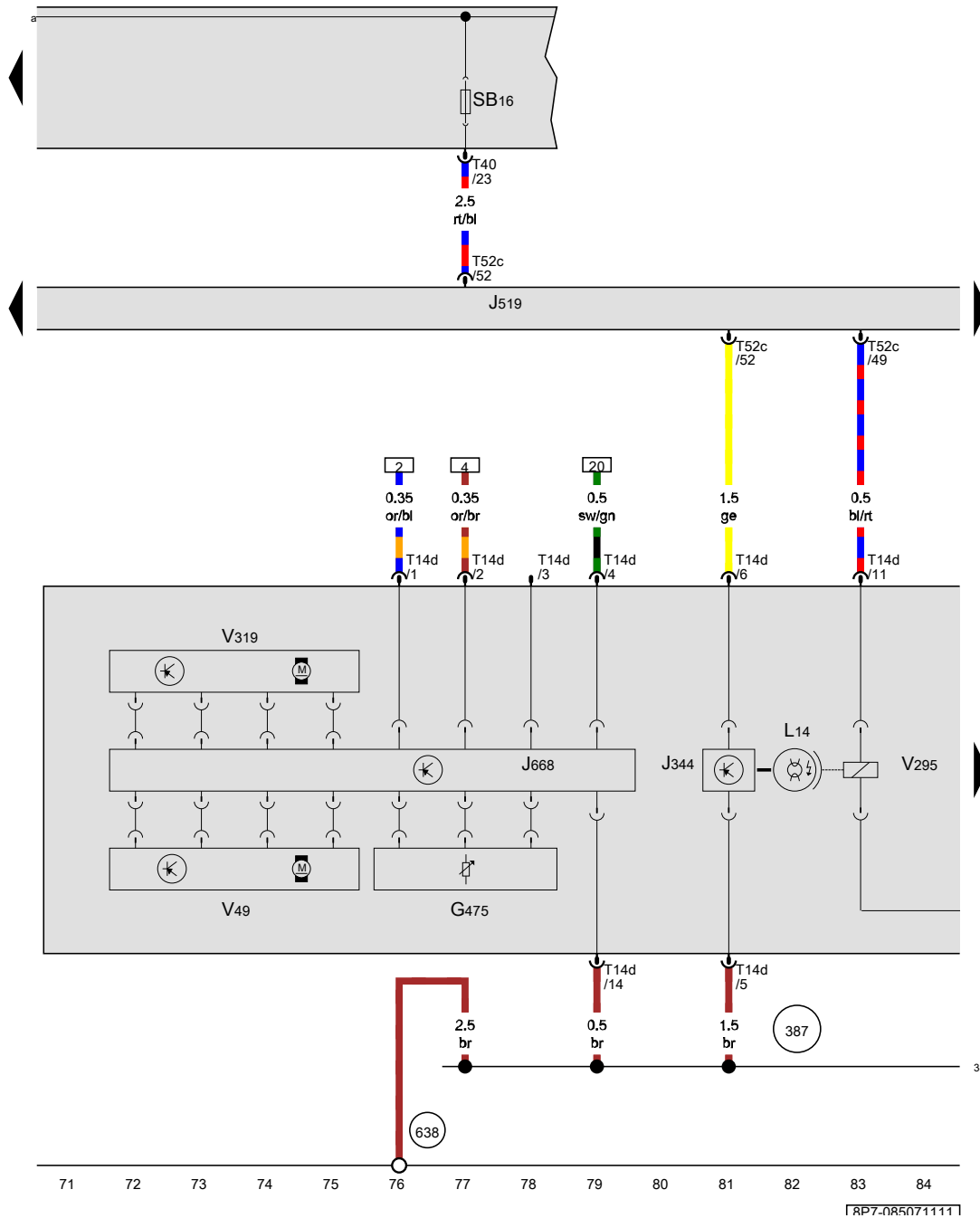
Onboard supply control unit, Left LED module for daytime running light and side light, Front left turn signal bulb

- J519 Onboard supply control unit
- J860 Control unit for left daytime running light and side light
- L176 Left LED module for daytime running light and side light
- M5 Front left turn signal bulb
- T14c 14-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

381 Earth connection 16, in main wiring harness



[AP7-0850R1111]



Onboard supply control unit, Output module for right headlight, Right gas discharge (xenon) bulb, Right headlight range control motor, Right dip beam screen motor, Right dynamic cornering light control motor

- G475 Right swivel module position sensor
- J344 Right gas discharge bulb control unit
- J519 Onboard supply control unit
- J668 Output module for right headlight
- L14 Right gas discharge (xenon) bulb
- SB16 Fuse 16 on fuse holder B
- T14d 14-pin connector
- T40 40-pin connector
- T52c 52-pin connector
- V49 Right headlight range control motor
- V295 Right dip beam screen motor
- V319 Right dynamic cornering light control motor

387 Earth connection 22, in main wiring harness

638 Earth point, on right A-pillar



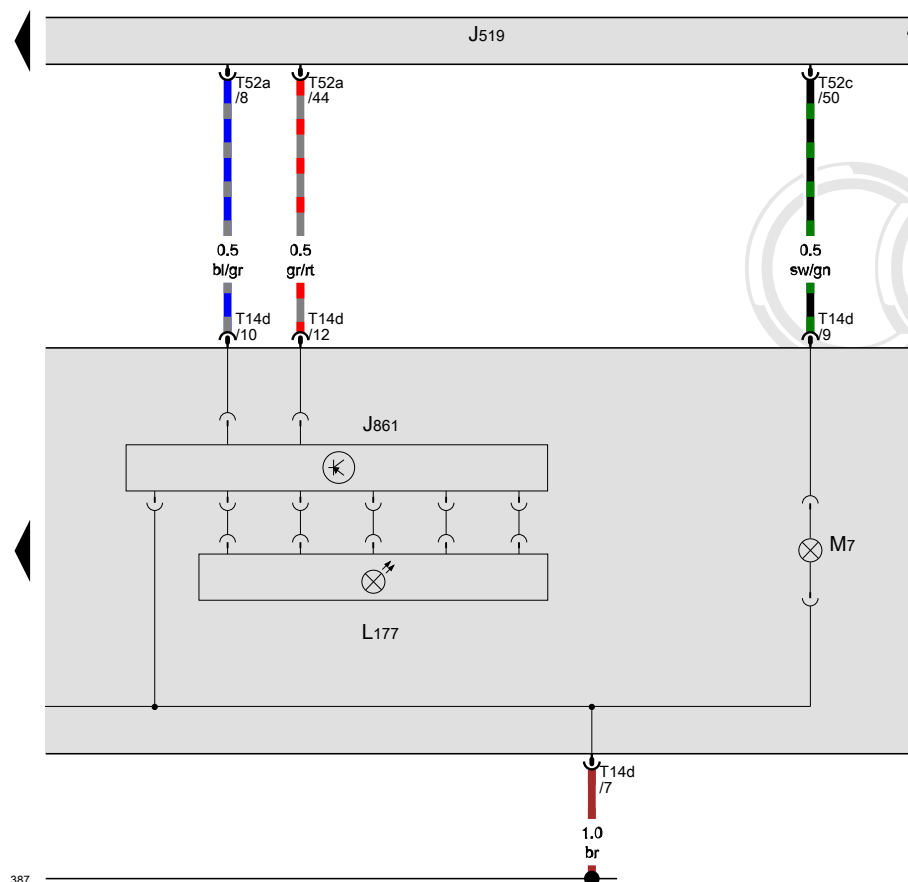
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Onboard supply control unit, Right LED module for daytime running light and side light, Front right turn signal bulb

- J519 Onboard supply control unit
- J861 Control unit for right daytime running light and side light
- L177 Right LED module for daytime running light and side light
- M7 Front right turn signal bulb
- T14d 14-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

387 Earth connection 22, in main wiring harness



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[AP7-085081111]



Headlight for gaseous discharge light (Xenon plus) and automatic headlight range control

from May 2009

Notes:

For information concerning

- ◆ Position of relays and fuses

- ◆ Multi-pin connections

- ◆ Control units and relays

- ◆ Earth connections

⇒ List of Fitting Locations!

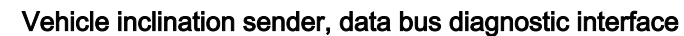
For information concerning

- ◆ Fault Finding Programs

⇒ guided fault finding



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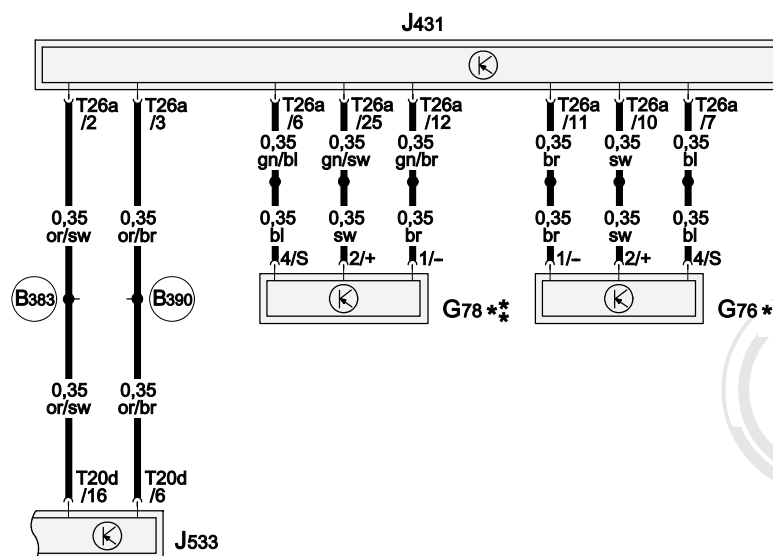


- | | |
|------|---------------------------------------|
| G76 | Rear left vehicle level sender |
| G78 | Front left vehicle level sender |
| J431 | Headlight range control, control unit |
| J533 | Data bus diagnostic interface |
| T20d | 20-pin connector, black (connector A) |
| T26a | 26-pin connector, black (connector A) |

(B383) Connection 1 (drive train CAN bus, high), in main wiring harness

(B390) Connection 1 (drive train CAN bus, low), in main wiring harness

* is dropped with electronically controlled damping
** No longer fitted, phased-in modification

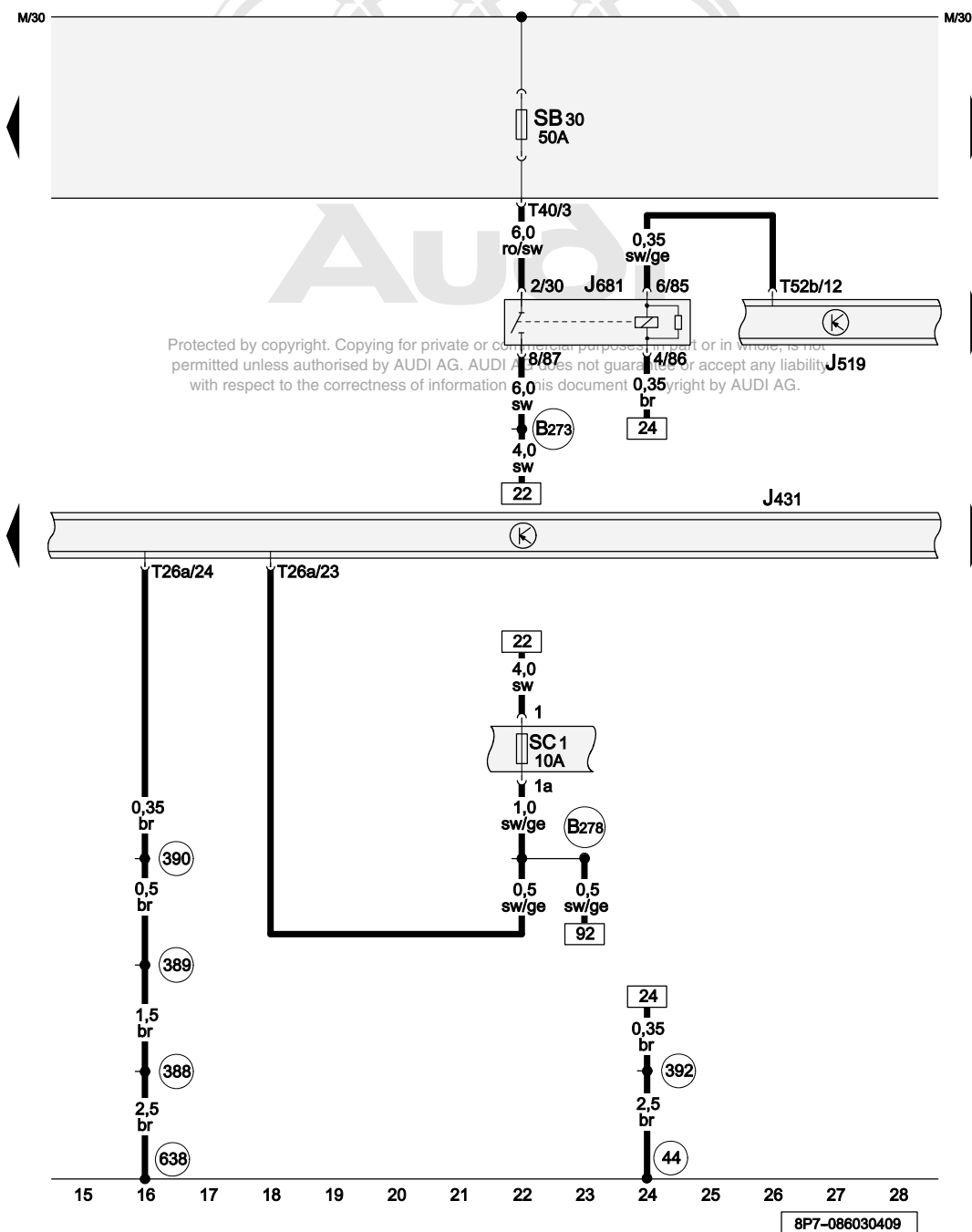


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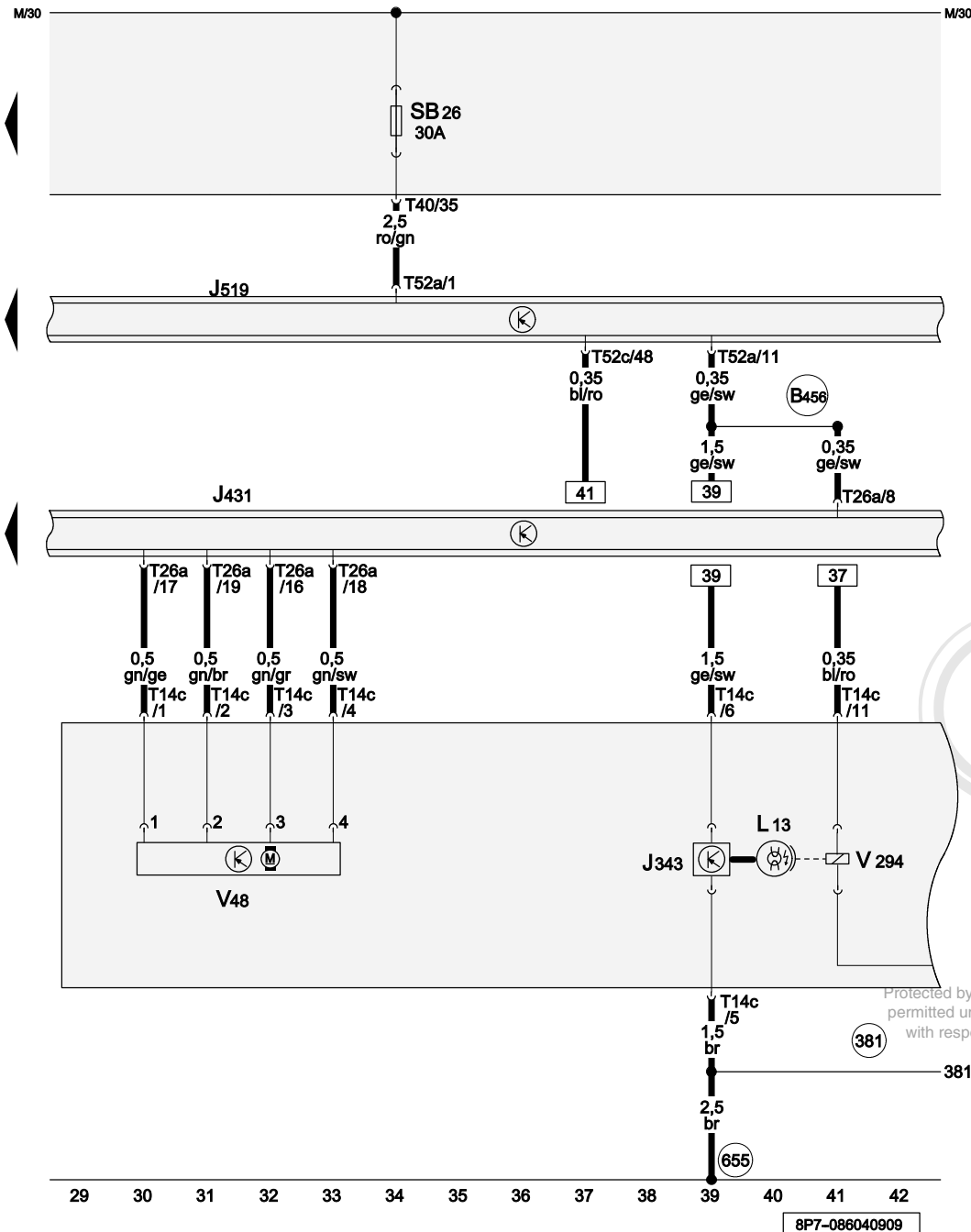
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8P7-086020409



Terminal 15 voltage supply relay 2, fuses on fuse holder

- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SB30 Fuse 30 on fuse holder B
- SC1 Fuse 1 on fuse holder C
- T26a 26-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52b 52-pin connector, white (connector B)
- 44 Earth point, lower part of left A-pillar
- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- 638 Earth point, right A-pillar
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness



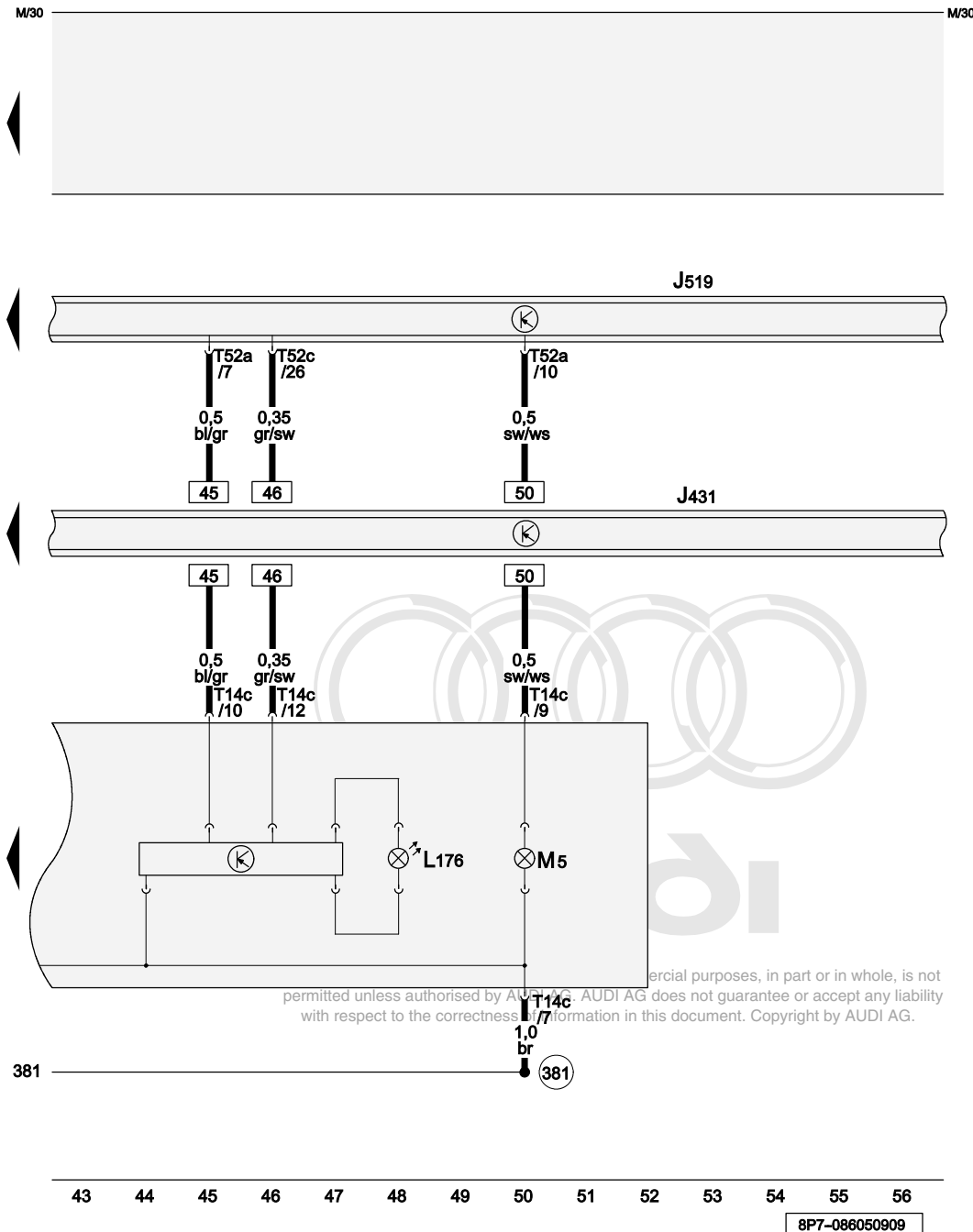
Left gas discharge bulb, left headlight range control motor, left dip beam screen

- J343 Left gas discharge light control unit
- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- L13 Left gas discharge (xenon) bulb
- SB26 Fuse 26 on fuse holder B
- T14c 14-pin connector
- T26a 26-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52a 52-pin connector, black (connector A)
- T52c 52-pin connector, brown (connector C)
- V48 Left headlight range control motor
- V294 Left dip beam screen motor

- 381 Earth connection 16, in main wiring harness
- 655 Earth point, on left headlight
- B456 Connection (56b), in main wiring harness

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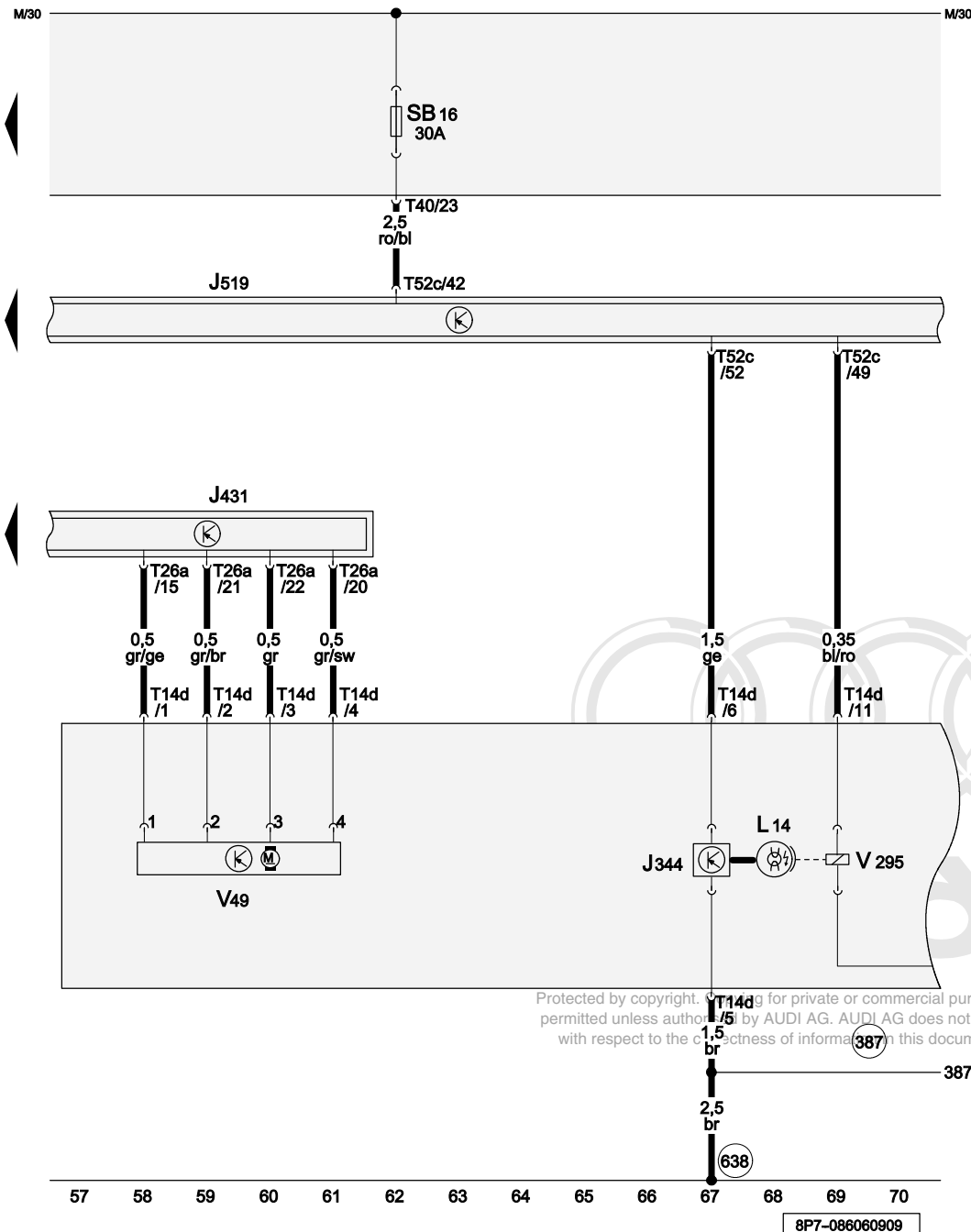
Left LED module for daytime running light and side light, front left turn signal

- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- L176 Left LED module for daytime running light and side light
- M5 Front left turn signal bulb
- T14c 14-pin connector
- T52a 52-pin connector, black (connector A)
- T52c 52-pin connector, brown (connector C)

381 Earth connection 16, in main wiring harness

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8P7-086050909



Right gas discharge bulb, right headlight range control motor, right dip beam screen

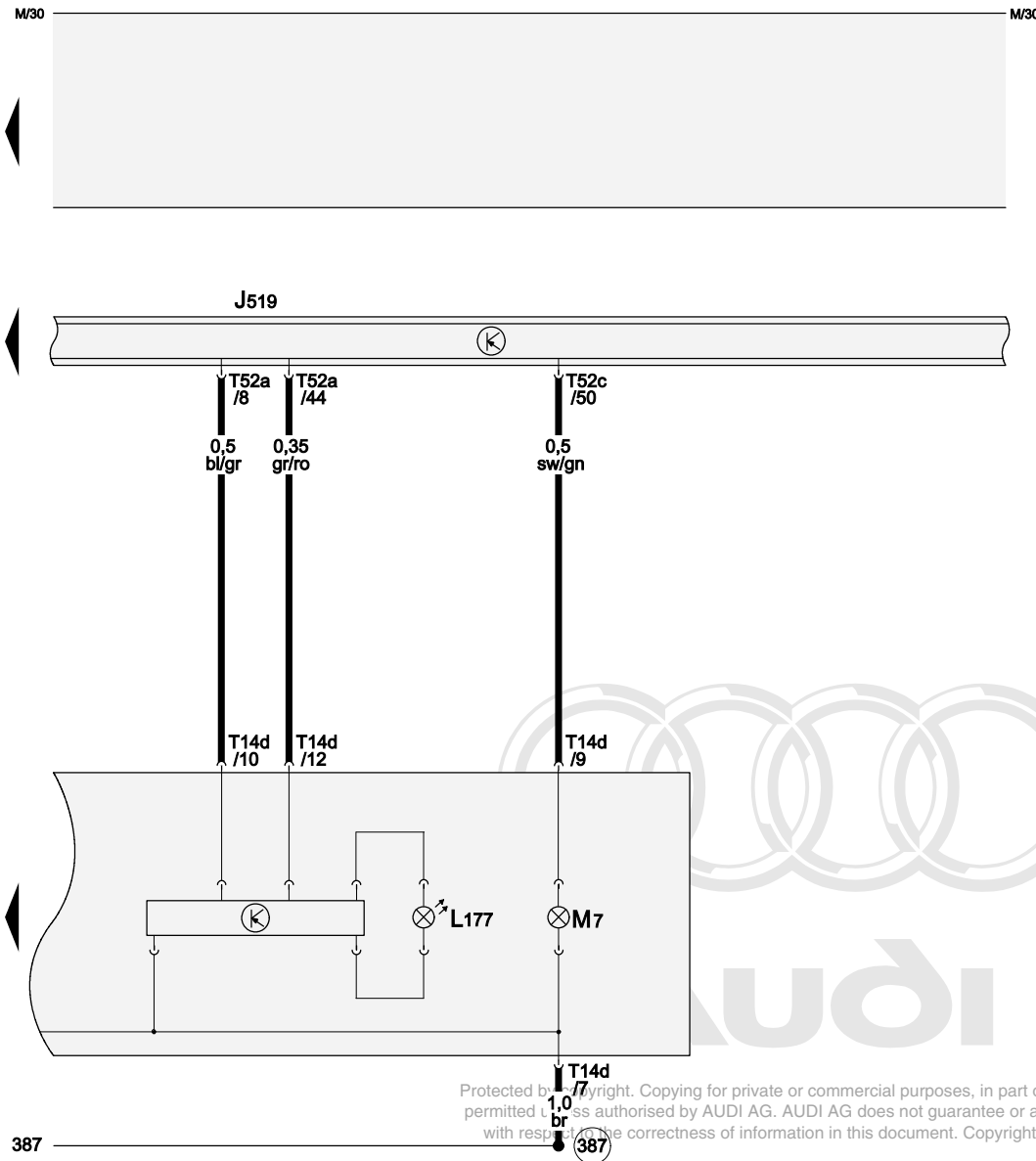
- J344 Right gas discharge light control unit
- J431 Headlight range control, control unit
- J519 Onboard supply control unit
- L14 Right gas discharge (xenon) bulb
- SB16 Fuse 16 on fuse holder B
- T14d 14-pin connector
- T26a 26-pin connector, black (connector A)
- T40 40-pin connector, black, on electronics box in engine compartment (connector J)
- T52c 52-pin connector, brown (connector C)
- V49 Right headlight range control motor
- V295 Right dip beam screen motor

387 Earth connection 22, in main wiring harness

638 Earth point, right A-pillar

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Right LED module for daytime running light and side light, front right turn signal

- J519 Onboard supply control unit
- L177 Right LED module for daytime running light and side light
- M7 Front right turn signal bulb
- T14d 14-pin connector
- T52a 52-pin connector, black (connector A)
- T52c 52-pin connector, brown (connector C)

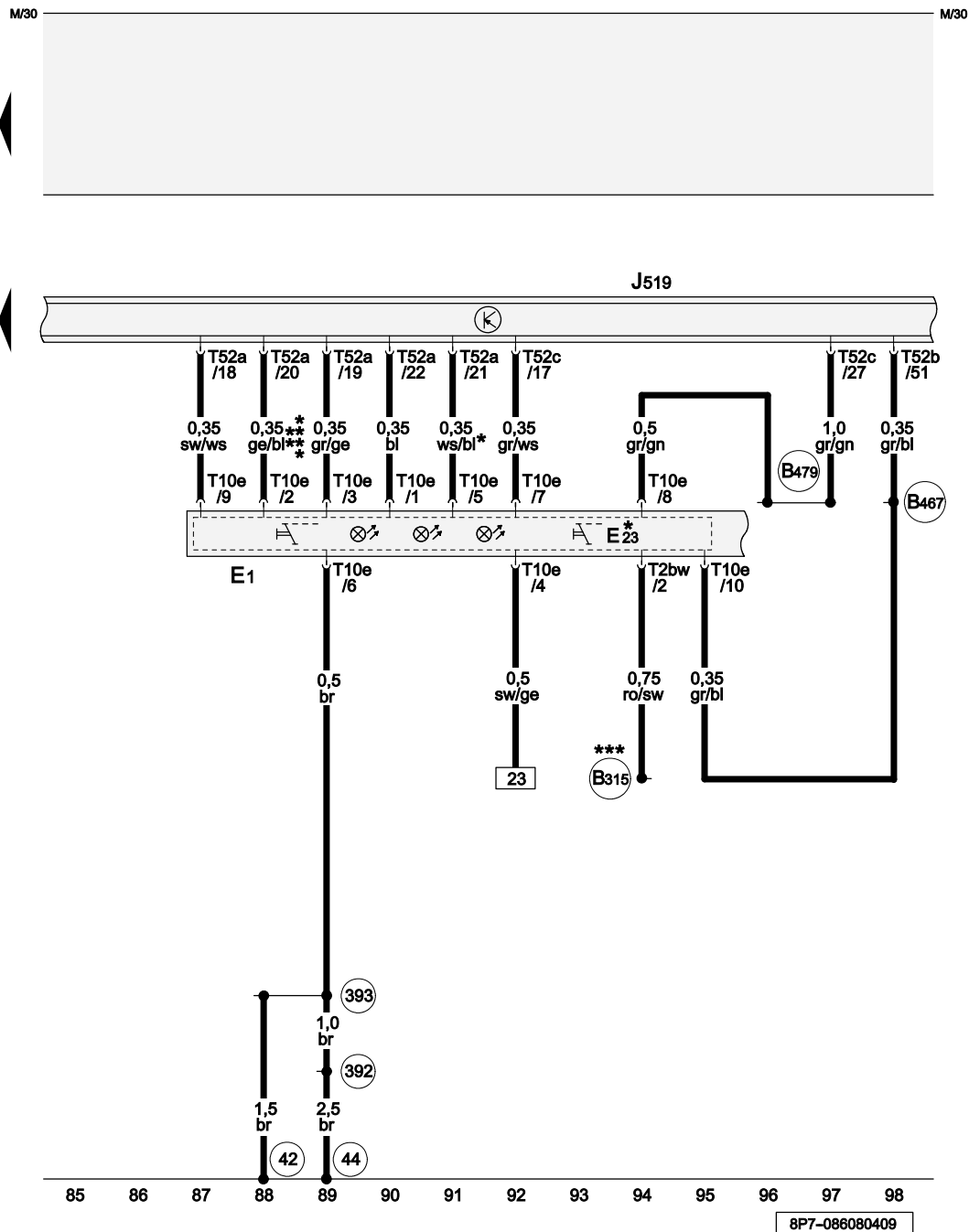
387 Earth connection 22, in main wiring harness

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71 72 73 74 75 76 77 78 79 80 81 82 83 84

8P7-086070909



Light switch

- E1 Light switch
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- T2bw 2-pin connector, brown (connector D)
- T10e 10-pin connector, black (connector A)
- T52a 52-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B315 Positive connection 1 (30a), in main wiring harness
- B467 Connection 3, in main wiring harness
- B479 Connection 15, in main wiring harness

- * for models with front fog light only
- ** for models with automatic headlight switching only
- *** voltage supply from fuse SC16 ⇒ applicable Current Flow Diagram basic equipment
- **** for models with day driving light only

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



Headlight with Coming-Home

from May 2009

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



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M/30

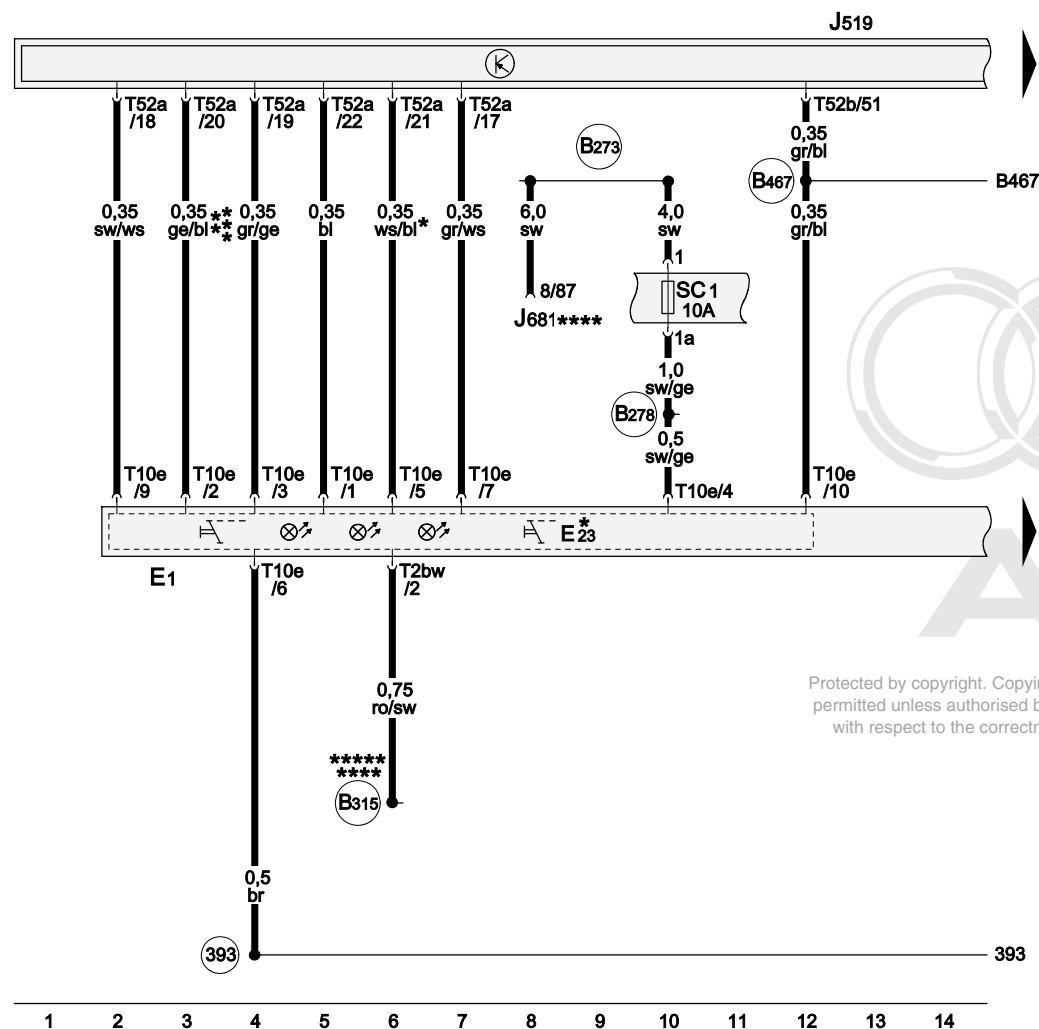
M/30

Light switch, fuses on fuse holder

- E1 Light switch
- E23 Front and rear fog light switch
- J519 Onboard supply control unit
- J681 Terminal 15 voltage supply relay 2
- SC1 Fuse 1 on fuse holder C
- T2bw 2-pin connector, brown (connector D)
- T10e 10-pin connector, black (connector A)
- T52a 52-pin connector, black (connector A)
- T52b 52-pin connector, white (connector B)

- 393 Earth connection 28, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B278 Positive connection 2 (15a), in main wiring harness
- B315 Positive connection 1 (30a), in main wiring harness
- B467 Connection 3 in main wiring harness

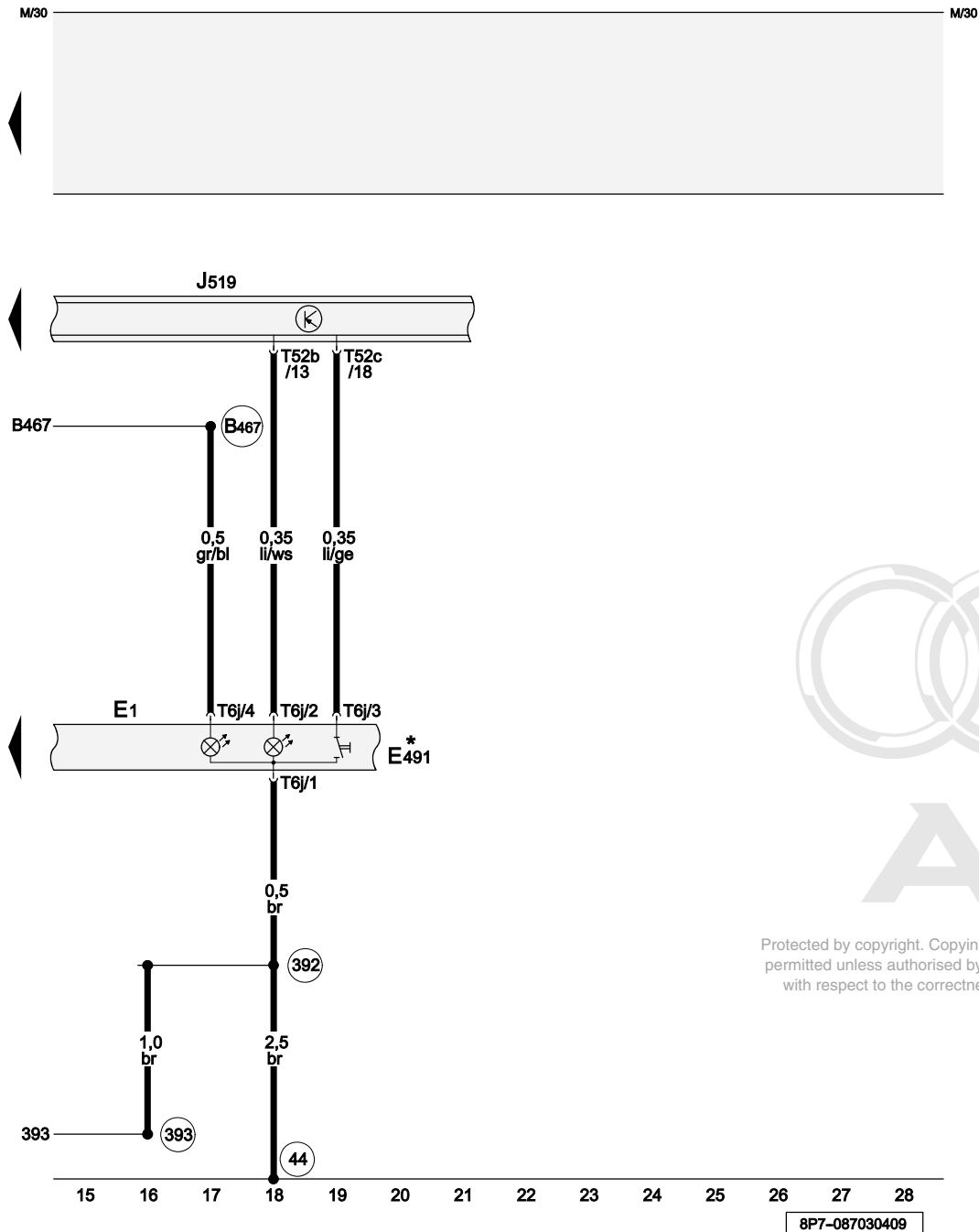
- * for models with front fog light only
- ** for models with automatic headlight switching only
- *** for models with day driving light only
- **** ⇒ applicable Current Flow Diagram basic equipment
- ***** voltage supply from fuse SC16



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8P7-087020409



Light switch

- E1 Light switch
- E491 Deactivation switch for surround lighting
- J519 Onboard supply control unit
- T6j 6-pin connector, black (connector C)
- T52b 52-pin connector, white (connector B)
- T52c 52-pin connector, brown (connector C)
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- B467 Connection 3 in main wiring harness
- * Coming-Home-switch

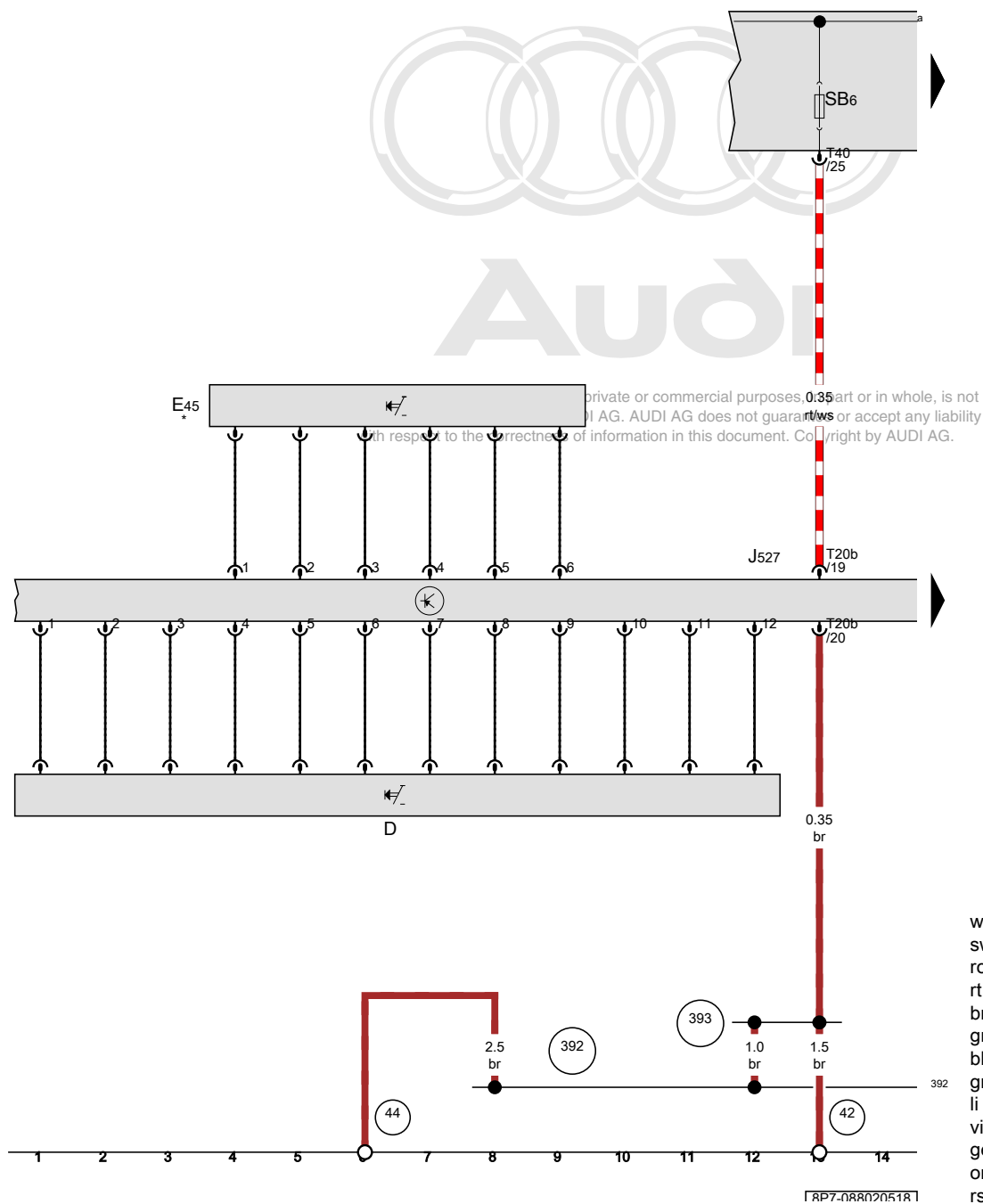
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1.2l petrol engine , CBZB

From November 2009

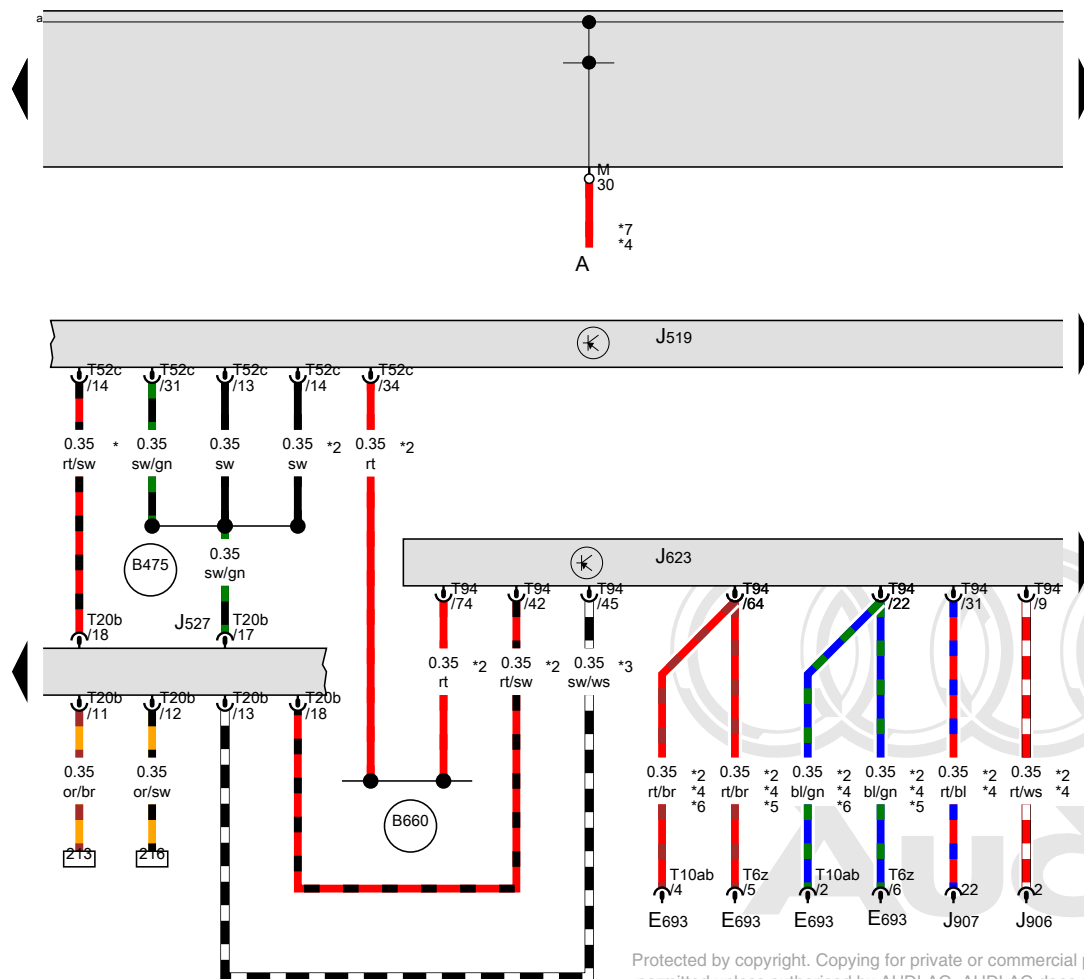


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Ignition/starter switch, Cruise control system switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector
- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- * For models with cruise control system (CCS)



Onboard supply control unit, Engine/motor control unit

- A Battery
- E693 Start/Stop operation button
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine/motor control unit
- J906 Starter relay 1
- J907 Starter relay 2
- T6z 6-pin connector
- T10ab 10-pin connector
- T20b 20-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 392 Earth connection 27, in main wiring harness
- B475 Connection 11, in main wiring harness
- B660 Connection (diagnosis terminal 50), in main wiring harness

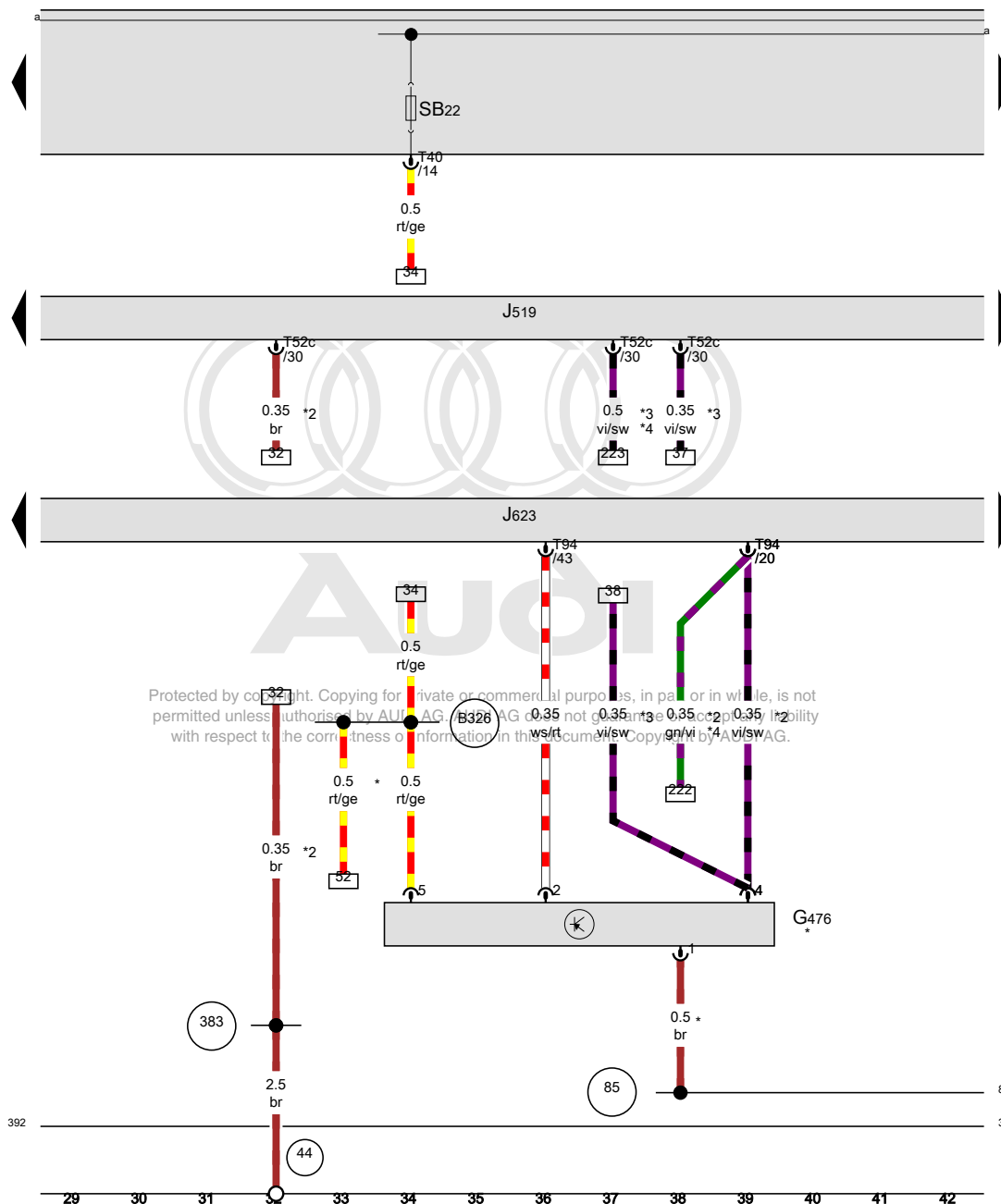
- * For models with no start/stop system
- *2 For models with start/stop system
- *3 For models with cruise control system (CCS)
- *4 see applicable current flow diagram for battery in engine compartment
- *5 Gradually discontinued
- *6 gradual introduction
- *7 Cross section depends on equipment

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- or = orange
- rs = pink

392 15 16 17 18 19 20 21 22 23 24 25 26 27 28 392

18153078P7



Clutch position sender, Onboard supply control unit, Engine/ motor control unit

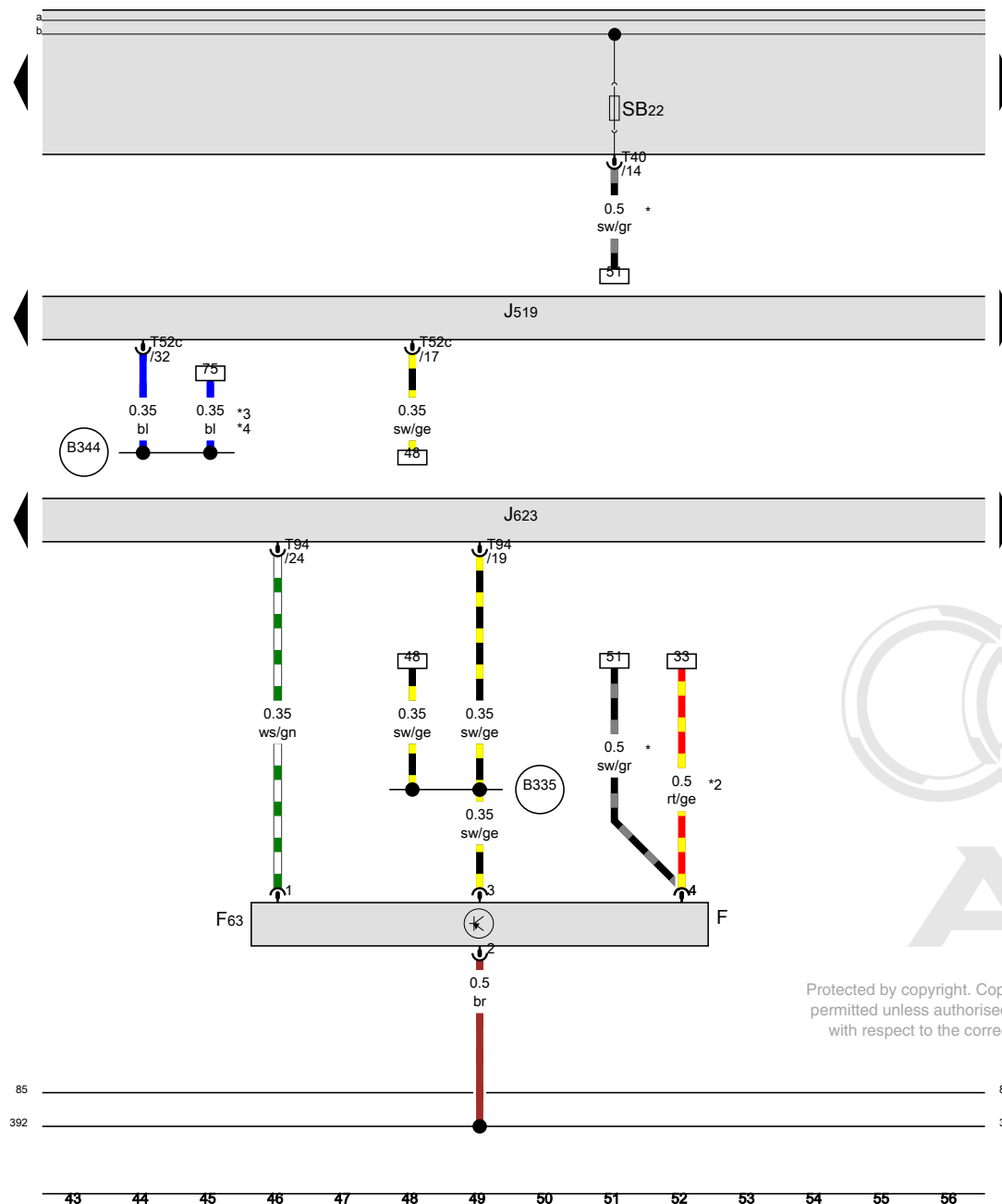
- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine/motor control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 383 Earth connection 18, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B326 Positive connection 12 (30a) in main wiring harness

- * For models with manual gearbox
- *2 For models with start/stop system
- *3 For models with no start/stop system
- *4 For models with automatic gearbox

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- ge = yellow
- or = orange
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[AP7-08R040518]



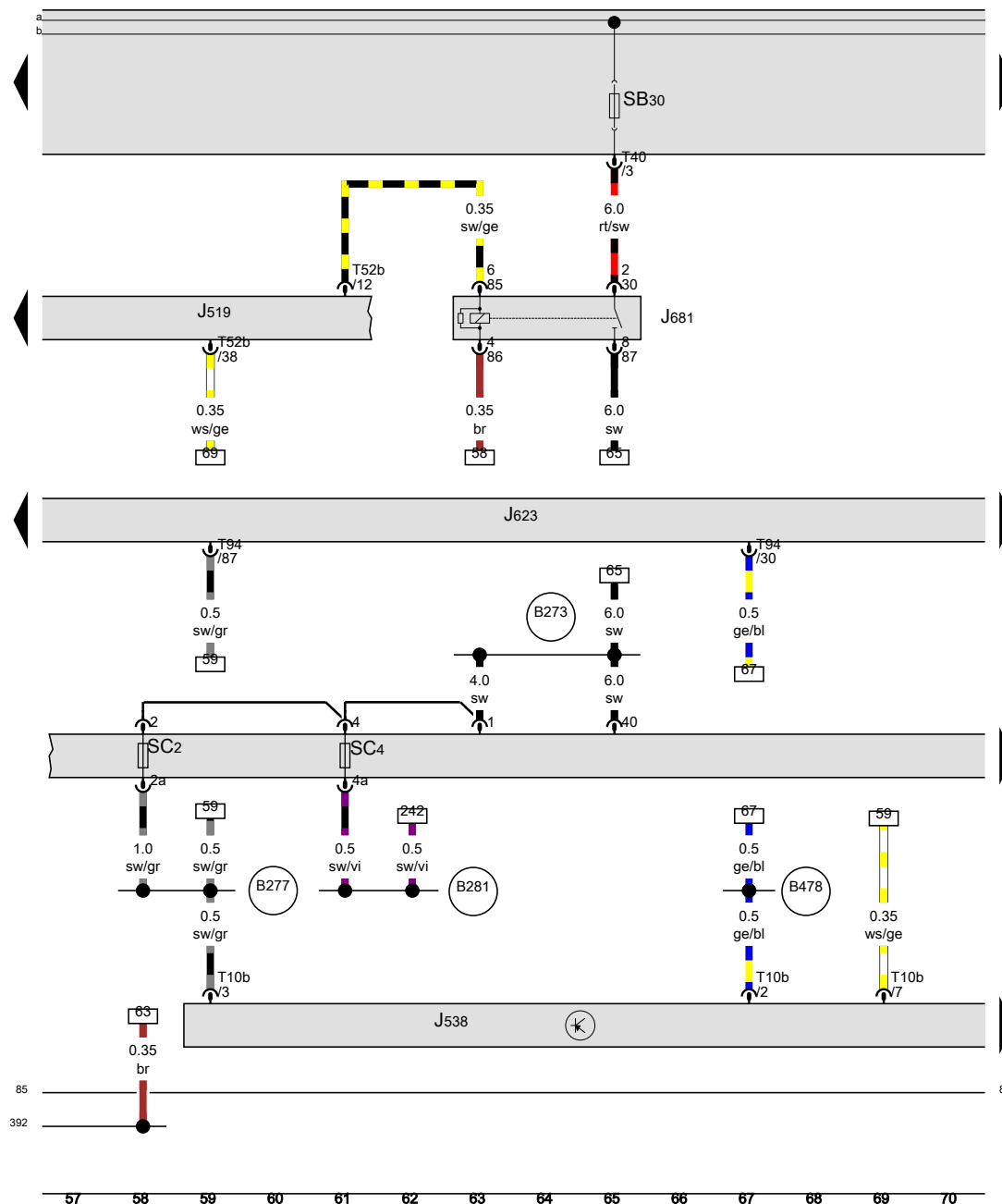
Brake pedal switch, Onboard supply control unit, Engine/ motor control unit

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine/motor control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector
- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B335 Connection 1 (54), in main wiring harness
- B344 Connection 1 (61), in main wiring harness
- * For models with automatic gearbox
- *2 For models with manual gearbox
- *3 For models with no start/stop system
- *4 see applicable current flow diagram for battery in engine compartment

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RP7-08R050518



Onboard supply control unit, Fuel pump control unit, Engine/motor control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J538 Fuel pump control unit
- J623 Engine/motor control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T10b 10-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T94 94-pin connector

85 Earth connection 1, in engine compartment wiring harness

392 Earth connection 27, in main wiring harness

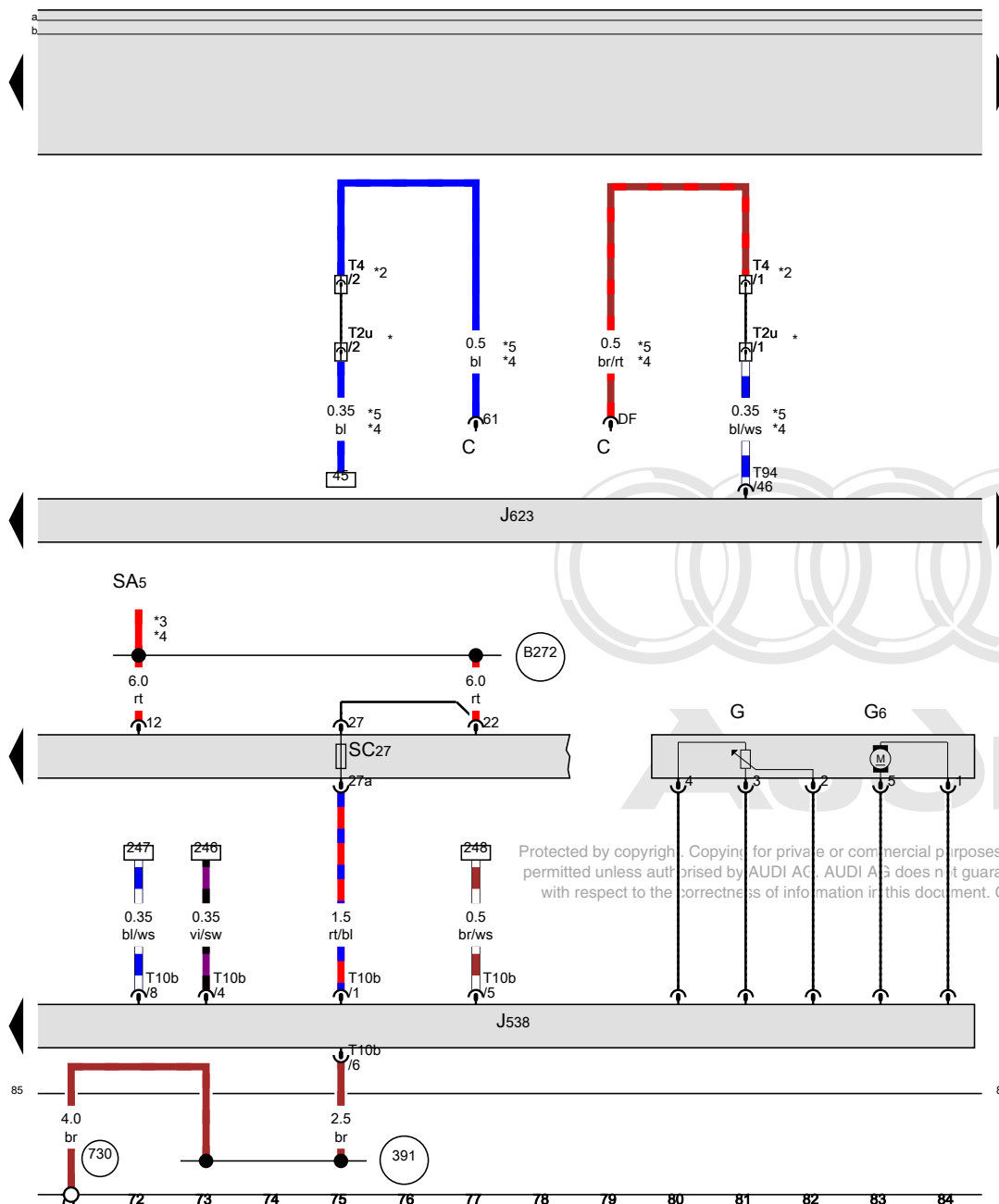
B273 Positive connection (15), in main wiring harness

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B277 Positive connection 1 (15a) in main wiring harness

B281 Positive connection 5 (15a) in main wiring harness

B478 Connection 14, in main wiring harness



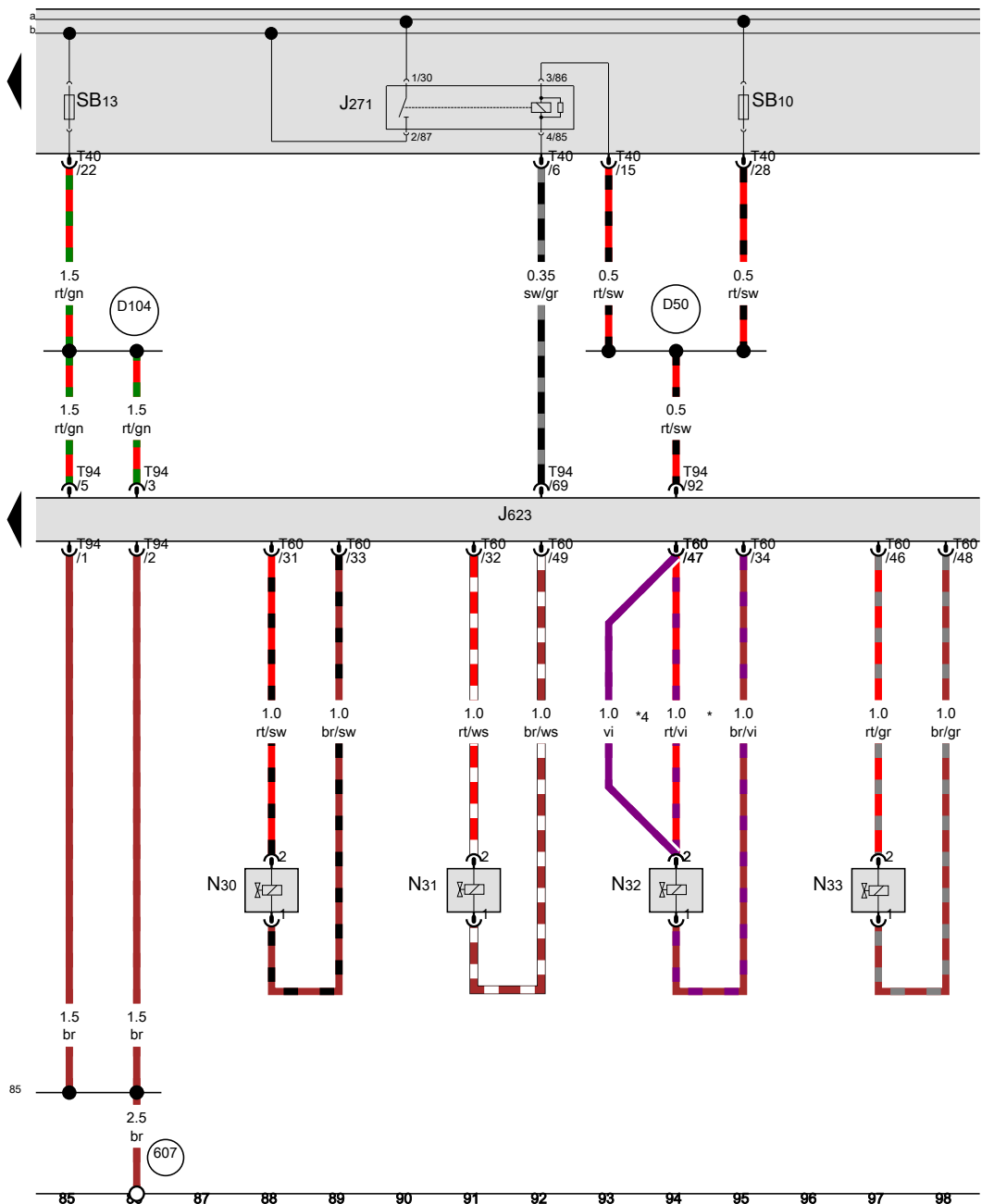
Fuel gauge sender, Fuel pump control unit, Engine/motor control unit

- C Alternator
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J538 Fuel pump control unit
- J623 Engine/motor control unit
- SA5 Fuse 5 on fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, on left in engine compartment
- T4 4-pin connector, on left in engine compartment
- T10b 10-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 391 Earth connection 26, in main wiring harness
- 730 Earth point 1, on right rear wheel housing
- B272 Positive connection (30), in main wiring harness

- * For models with no air conditioning system
- *2 For models with air conditioning system
- *3 Cross section depends on equipment
- *4 see applicable current flow diagram for battery in engine compartment
- *5 For models with no start/stop system

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Main relay, Engine/motor control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

- J271 Main relay
- J623 Engine/motor control unit
- N30 Injector, cylinder 1
- N31 Injector, cylinder 2
- N32 Injector, cylinder 3
- N33 Injector, cylinder 4
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector

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85 Earth connection 1, in engine compartment wiring harness

607 Earth point, on left in plenum chamber

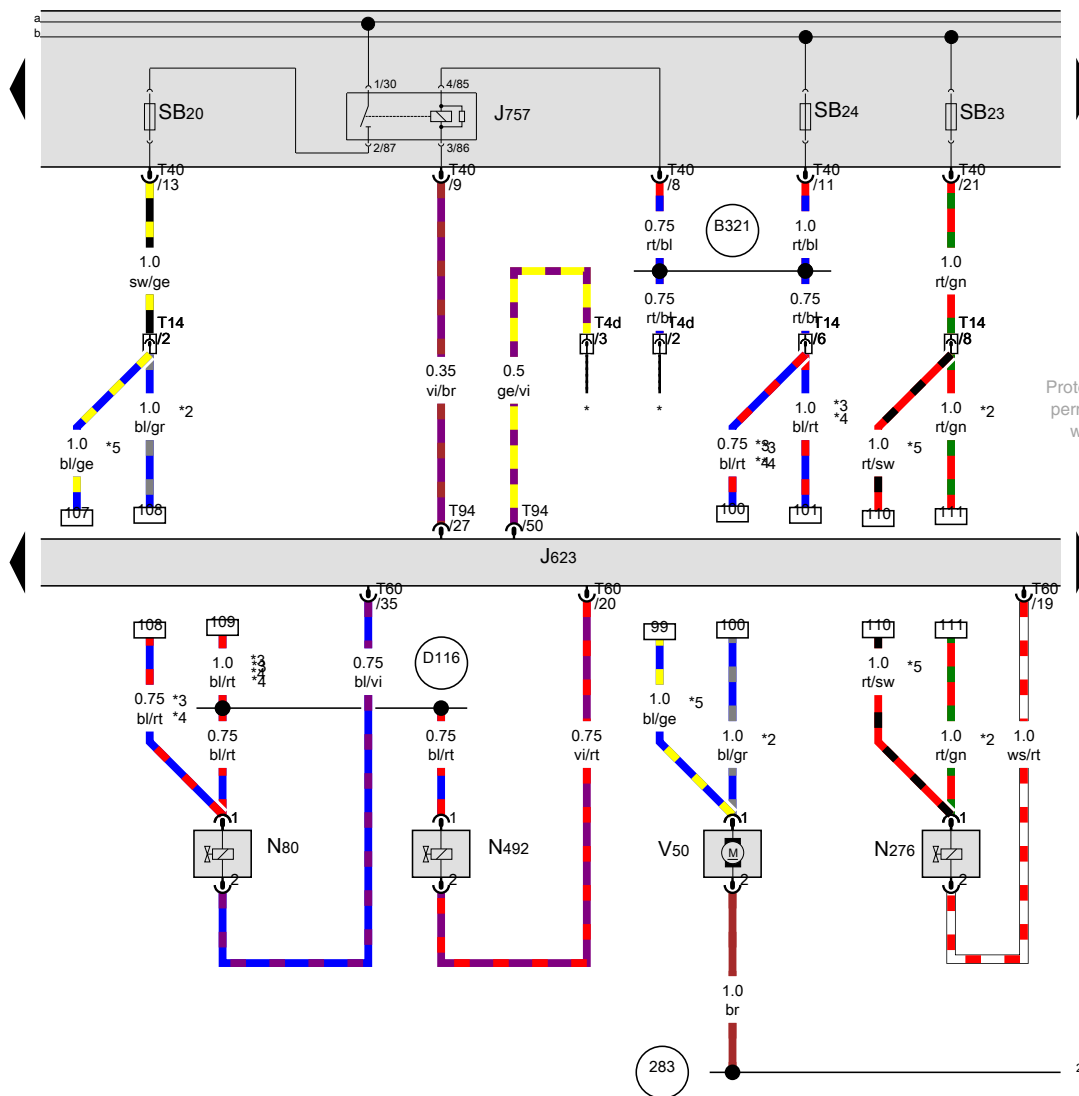
D50 Positive connection (30), in engine compartment wiring harness

D104 Positive connection 2 (30a), in engine compartment wiring harness

- * Gradually discontinued
- *2 If fitted
- *3 Optional installation
- *4 gradual introduction

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or = orange
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[RP7-08A000518]



Engine/motor control unit, Engine component current supply relay, Fuel pressure regulating valve, Coolant circulation pump

- J623 Engine/motor control unit
- J757 Engine component current supply relay
- N80 Activated charcoal filter solenoid valve 1
- N276 Fuel pressure regulating valve
- N492 Solenoid for coolant circuit
- SB20 Fuse 20 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, near radiator fan
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V50 Coolant circulation pump

283 Earth point 2, engine prewiring harness

B321 Positive connection 7 (30a) in main wiring harness

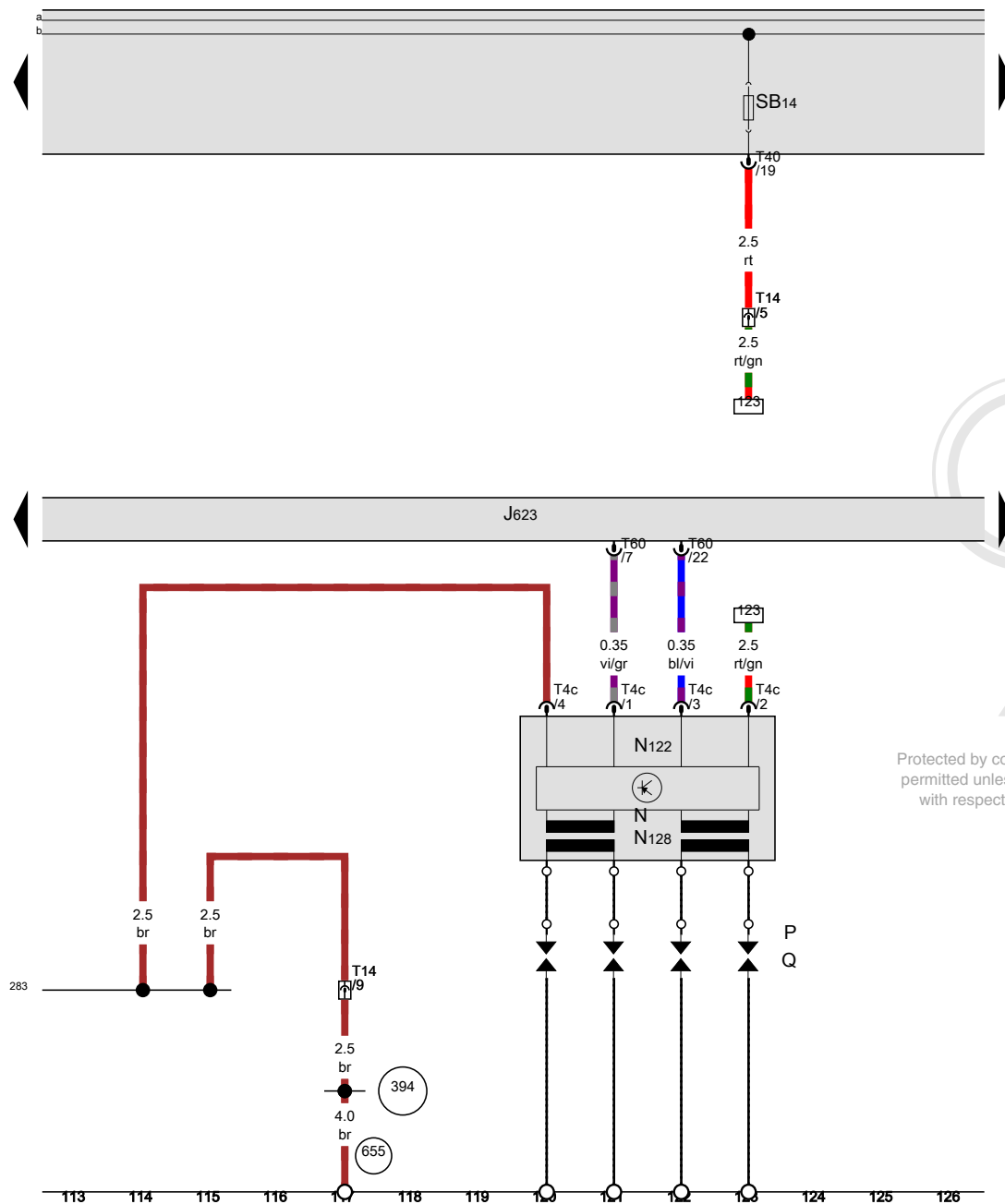
D116 Connection 14 in engine compartment wiring harness

- * see applicable current flow diagram for radiator fan
- *2 Gradually discontinued
- *3 If fitted
- *4 Optional installation
- *5 gradual introduction

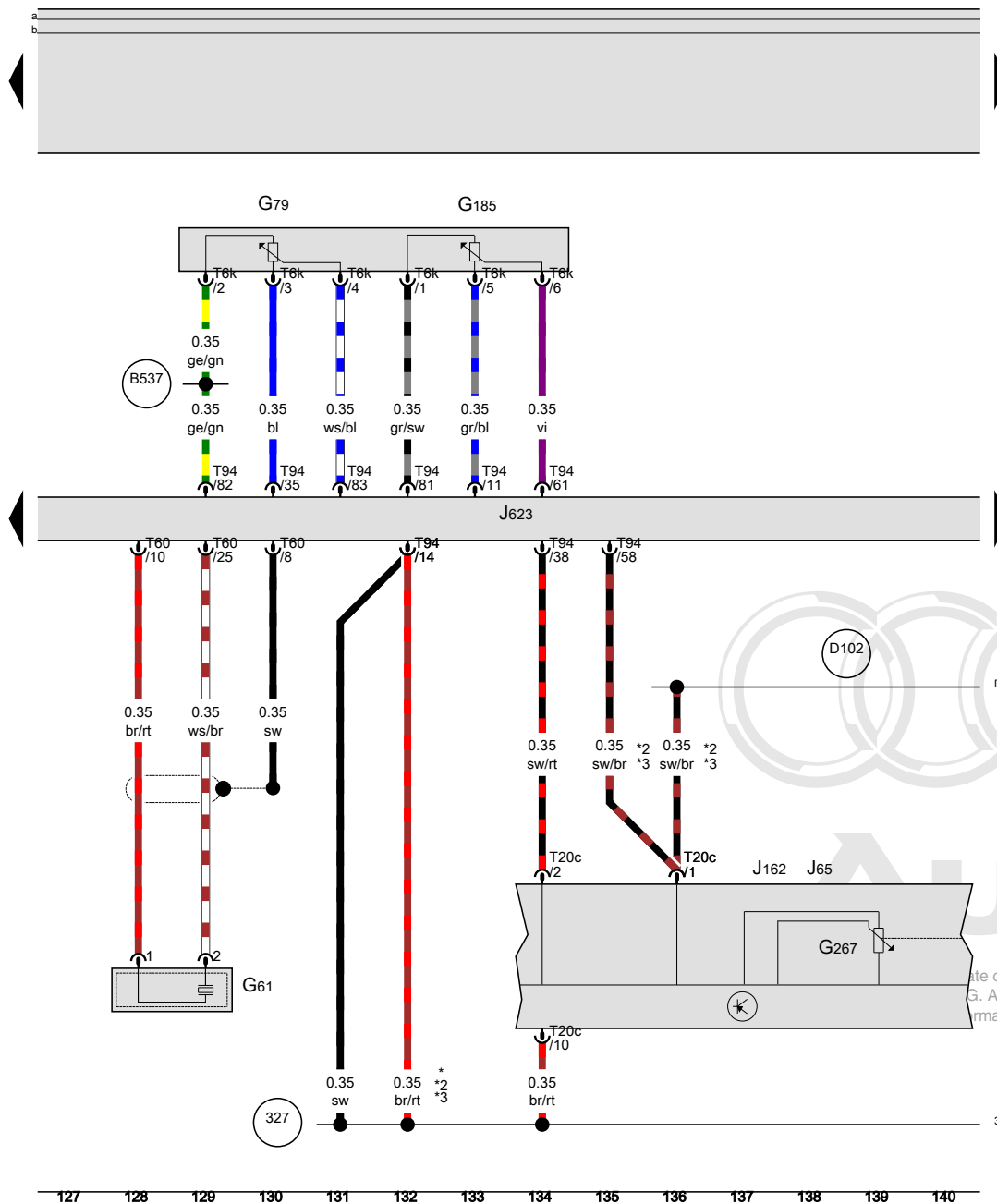
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99 100 101 102 103 104 105 106 107 108 109 110 111 112

[RP7-08R090518]



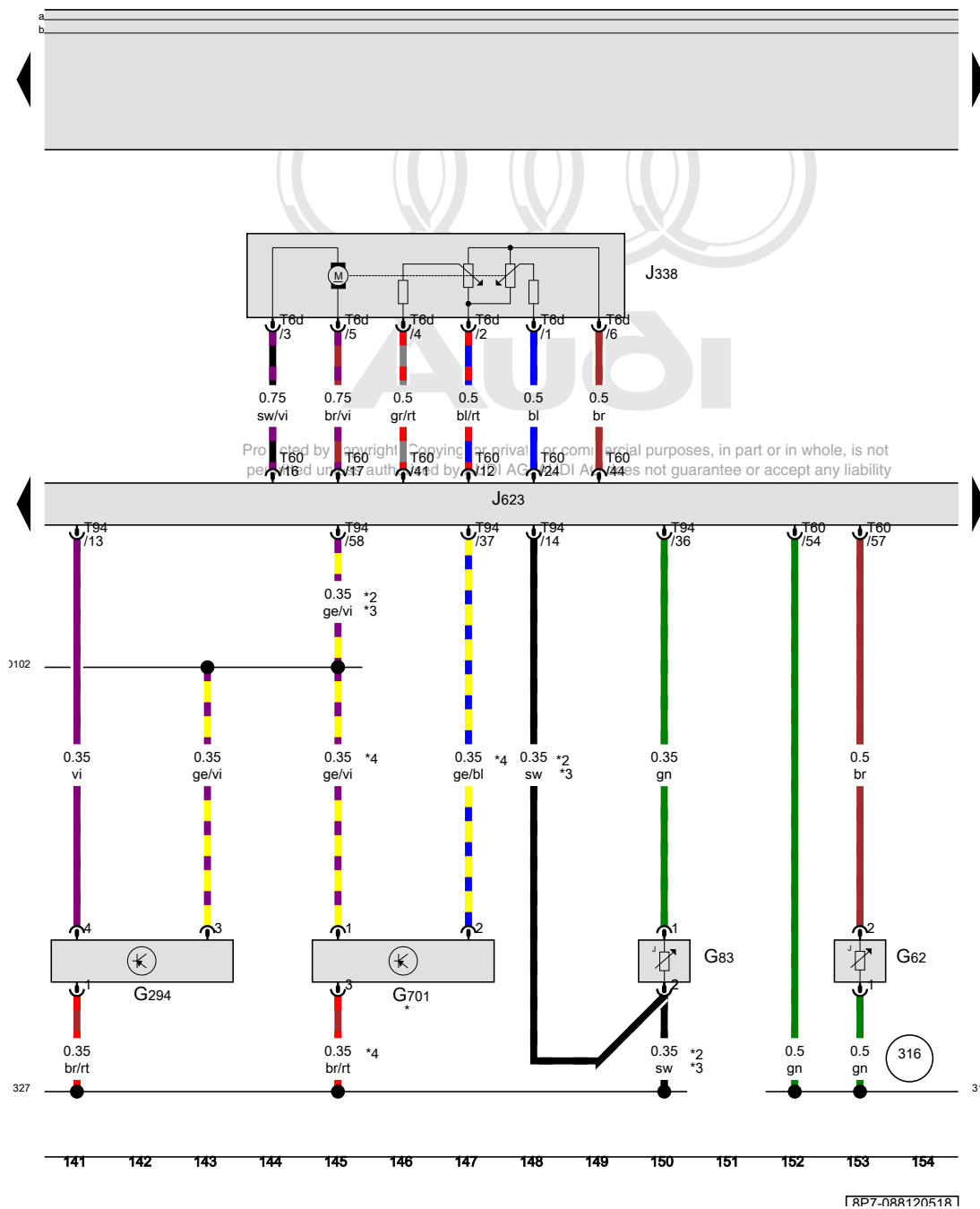
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Knock sensor 1, Accelerator position sender, Engine/motor control unit

- G61 Knock sensor 1
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- G267 Potentiometer for temperature selection rotary knob
- J65 Heater control unit
- J162 Heater control unit
- J623 Engine/motor control unit
- T6k 6-pin connector
- T20c 20-pin connector
- T60 60-pin connector
- T94 94-pin connector
- 327 Earth connection (sender earth), in engine compartment wiring harness
- B537 Connection 28, in main wiring harness
- D102 Connection 2 in engine compartment wiring harness
- * For models with manual gearbox
- *2 If fitted
- *3 Optional installation

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Radiator outlet coolant temperature sender, Gearbox neutral position sender, Throttle valve module, Engine/motor control unit

- G62 Coolant temperature sender
- G83 Radiator outlet coolant temperature sender
- G294 Brake servo pressure sensor
- G701 Gearbox neutral position sender
- J338 Throttle valve module
- J623 Engine/motor control unit
- T6d 6-pin connector
- T60 60-pin connector
- T94 94-pin connector

- 316 Earth connection (sender earth 2) in engine wiring harness
- 327 Earth connection (sender earth), in engine compartment wiring harness
- D102 Connection 2 in engine compartment wiring harness
- * For models with manual gearbox
- *2 If fitted
- *3 Optional installation
- *4 For models with stop/start system

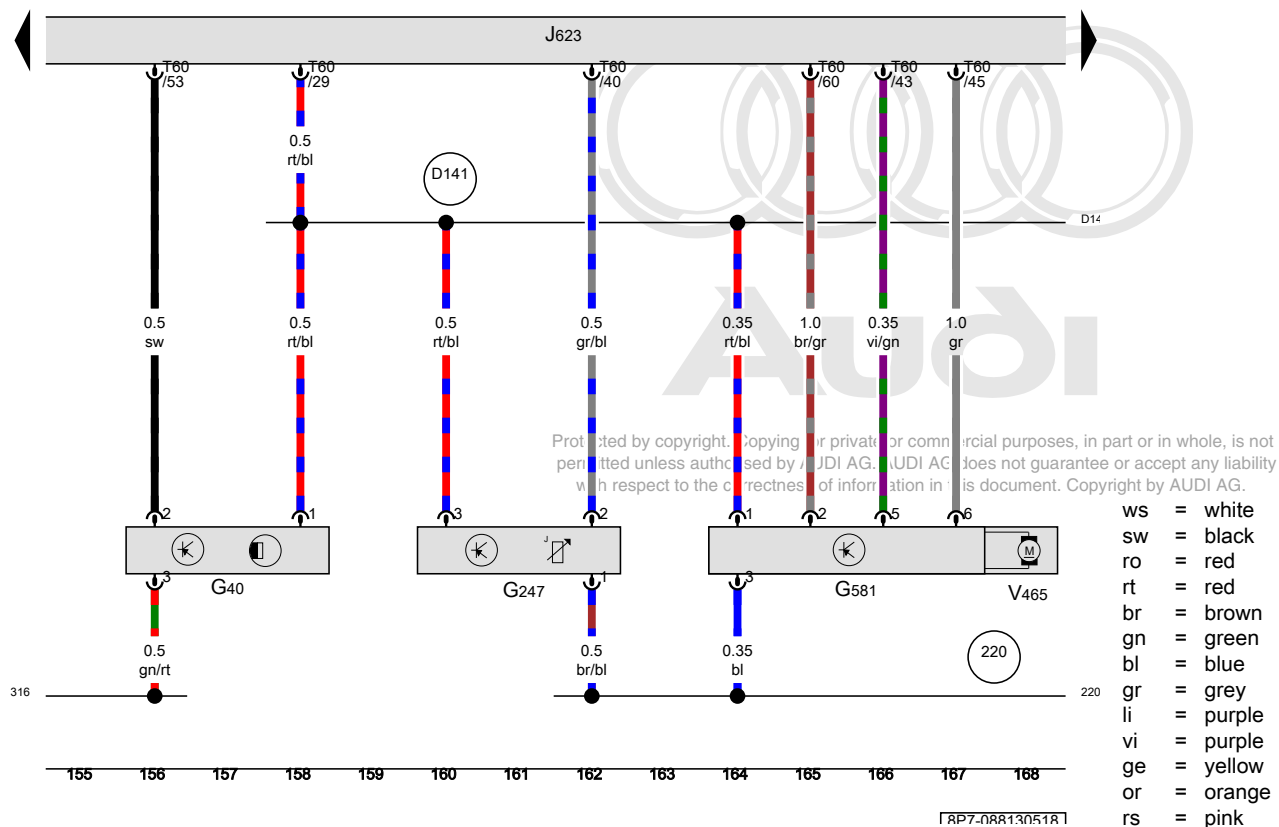
Hall sender, Position sender for charge pressure positioner, Engine/motor control unit, Charge pressure positioner

- G40 Hall sender
- G247 Fuel pressure sender
- G581 Position sender for charge pressure positioner
- J623 Engine/motor control unit
- T60 60-pin connector
- V465 Charge pressure positioner

(220) Earth connection (sender earth), in engine wiring harness

(316) Earth connection (sender earth 2) in engine wiring harness

(D141) Connection (5V) in engine prewiring harness



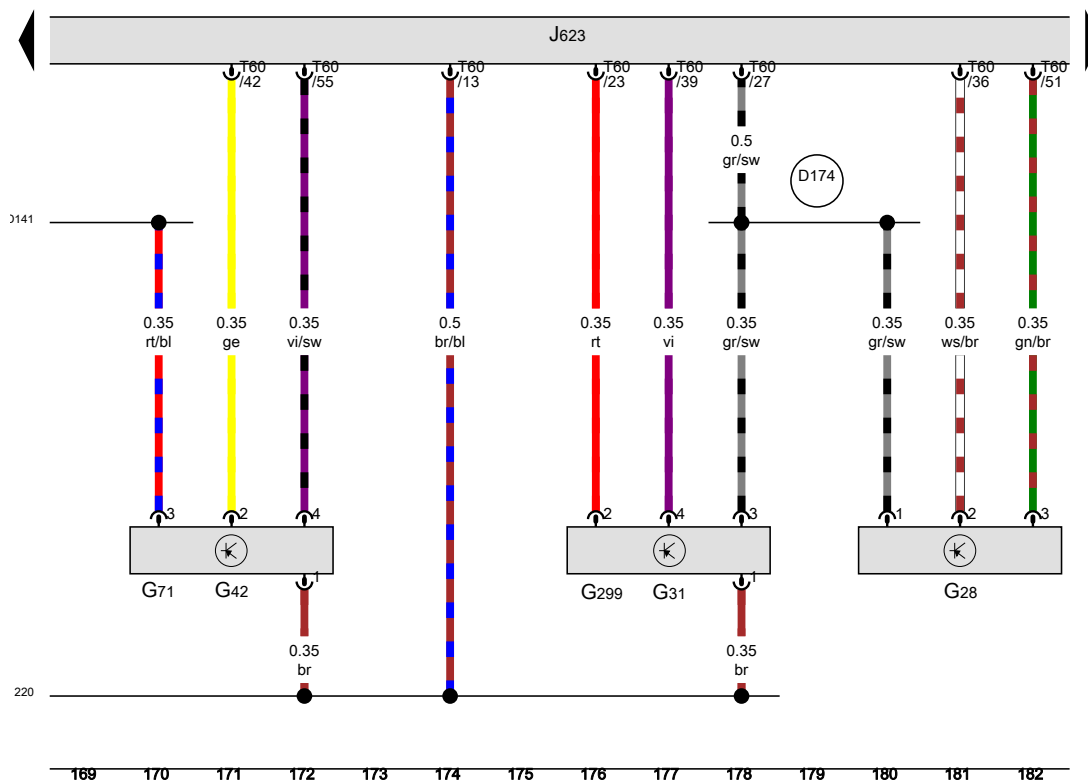
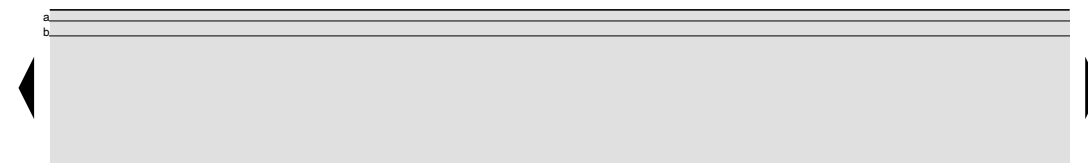
Engine speed sender, Charge pressure sender, Intake manifold pressure sender, Engine/motor control unit

- G28 Engine speed sender
- G31 Charge pressure sender
- G42 Intake air temperature sender
- G71 Intake manifold pressure sender
- G299 Intake air temperature sender 2
- J623 Engine/motor control unit
- T60 60-pin connector

220 Earth connection (sender earth), in engine wiring harness

D141 Connection (5V) in engine prewiring harness

D174 Connection 2 (5V) in engine prewiring harness



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[AP7-08R140518]



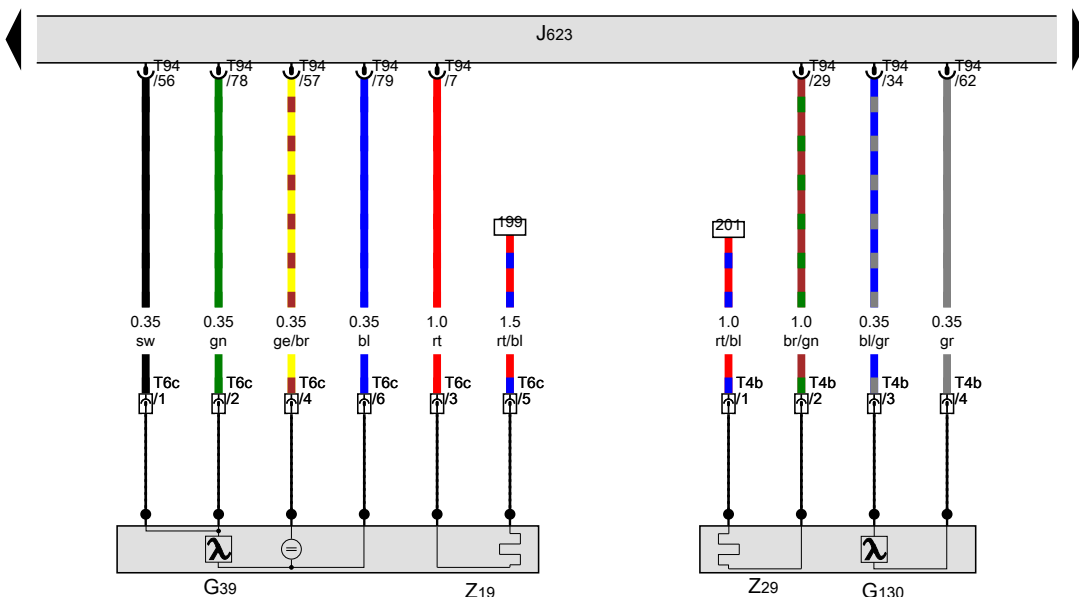
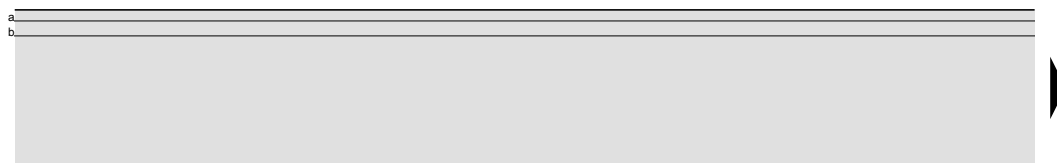
Lambda probe, Lambda probe after catalytic converter, Engine/motor control unit

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine/motor control unit
- T4b 4-pin connector
- T6c 6-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter



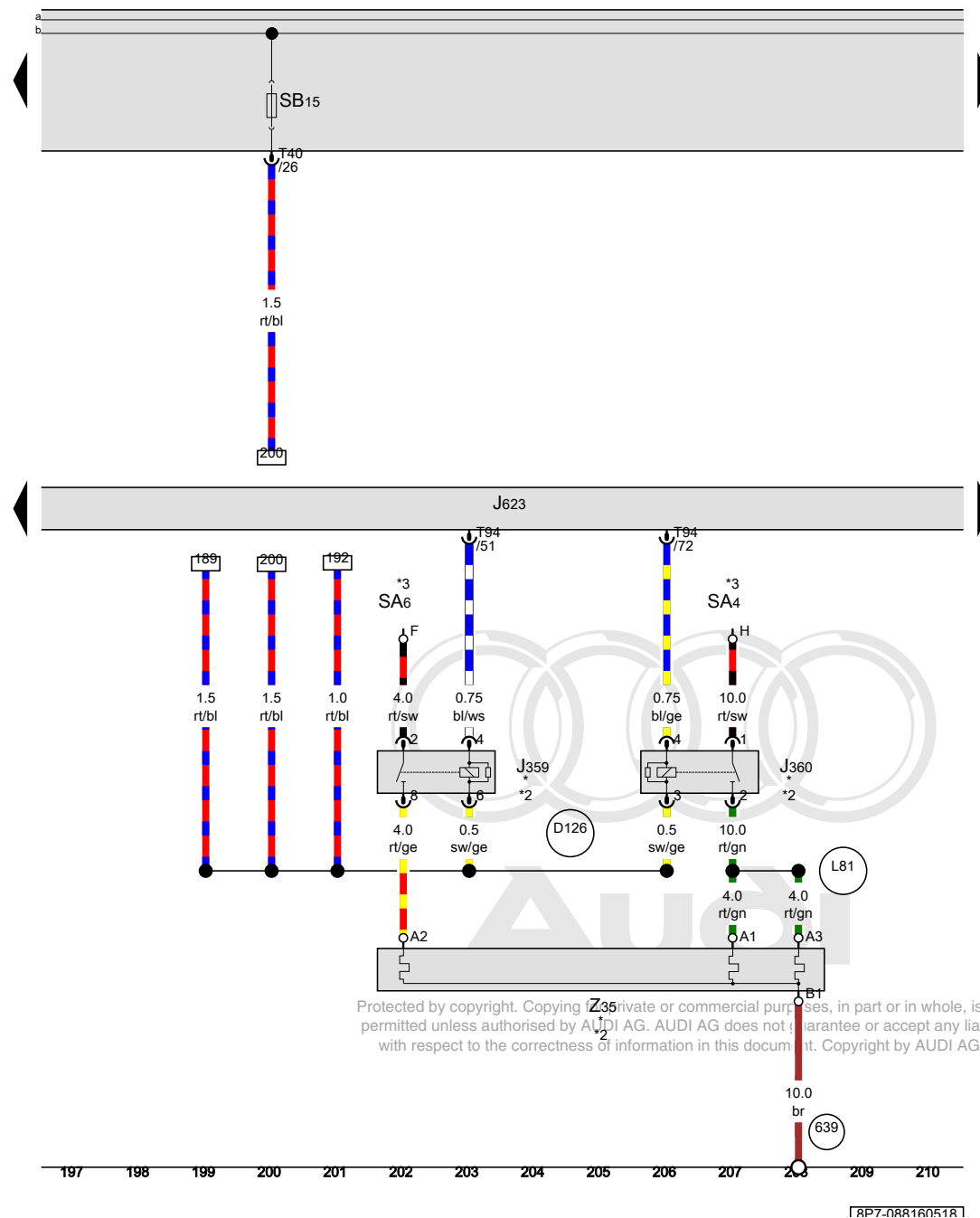
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183 184 185 186 187 188 189 190 191 192 193 194 195 196

[RP7-08R150518]



Low heat output relay, High heat output relay, Engine/motor control unit, Auxiliary air heater element

- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine/motor control unit
- SA4 Fuse 4 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SB15 Fuse 15 on fuse holder B
- T40 40-pin connector
- T94 94-pin connector
- Z35 Auxiliary air heater element

- 639 Earth point, left A-pillar
- D126 Connection 24 in engine compartment wiring harness
- L81 Connection in supplementary heater wiring harness

- * If fitted
- *2 From November 2011
- *3 see applicable current flow diagram for battery in engine compartment

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Engine/motor control unit, Mechatronic unit for dual clutch gearbox

- J533 Data bus diagnostic interface
- J623 Engine/motor control unit
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector
- T20d 20-pin connector
- T25 25-pin connector
- T94 94-pin connector

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

B444 Connection 1 (diagnosis), in main wiring harness

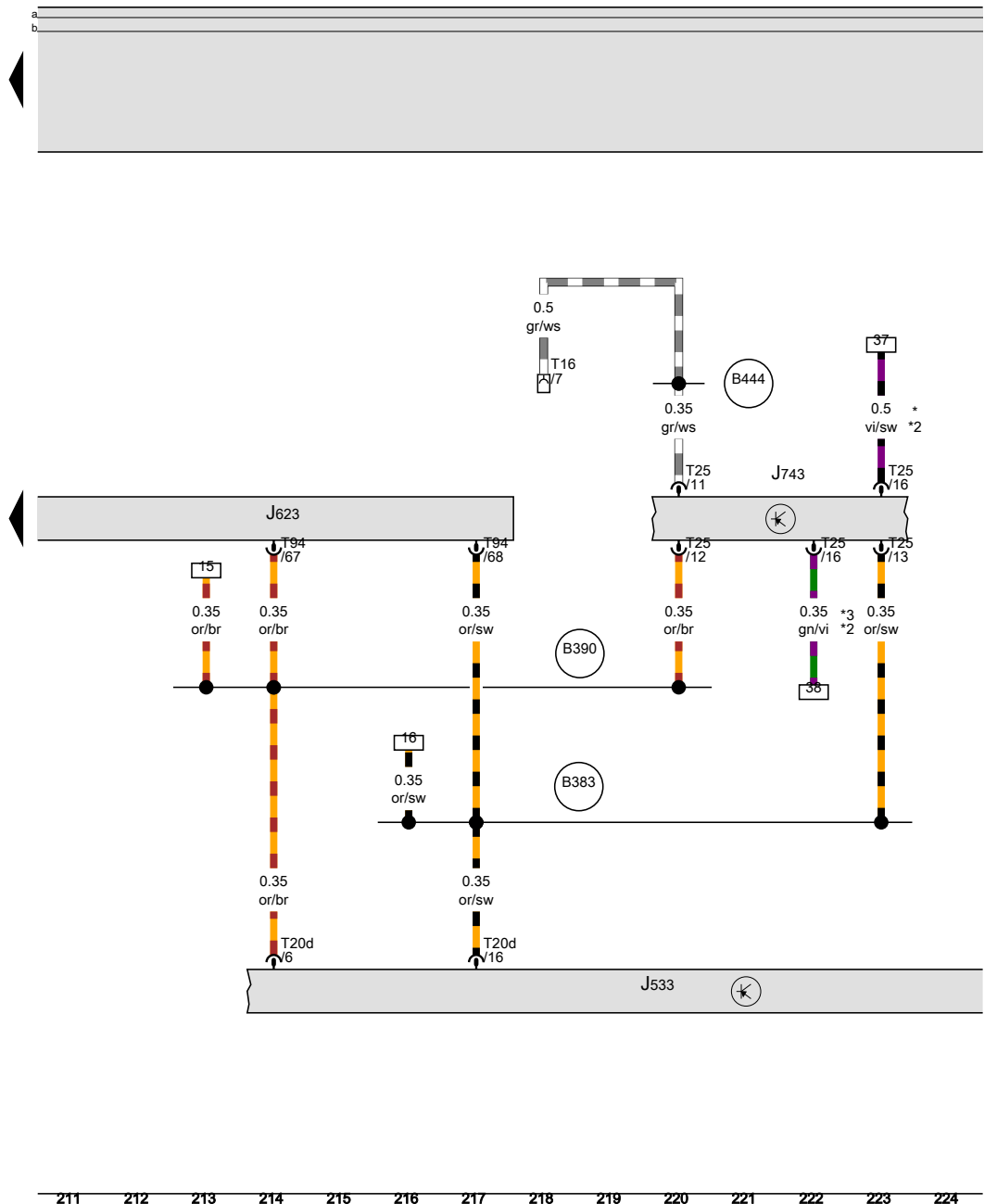
* For models with no start/stop system

*2 For models with automatic gearbox

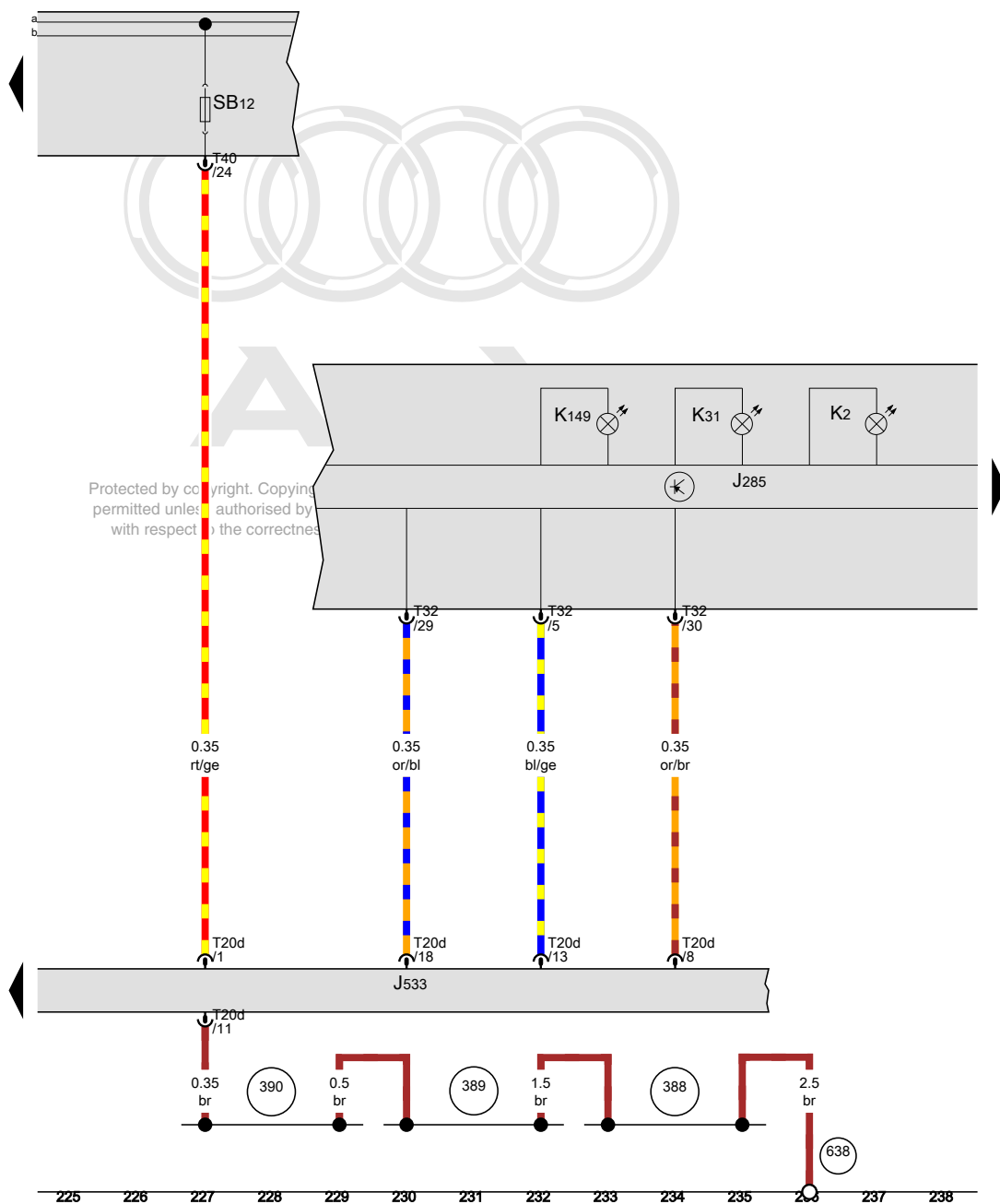
*3 For models with start/stop system



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[RP7-08R170518]



Control unit in dash panel insert

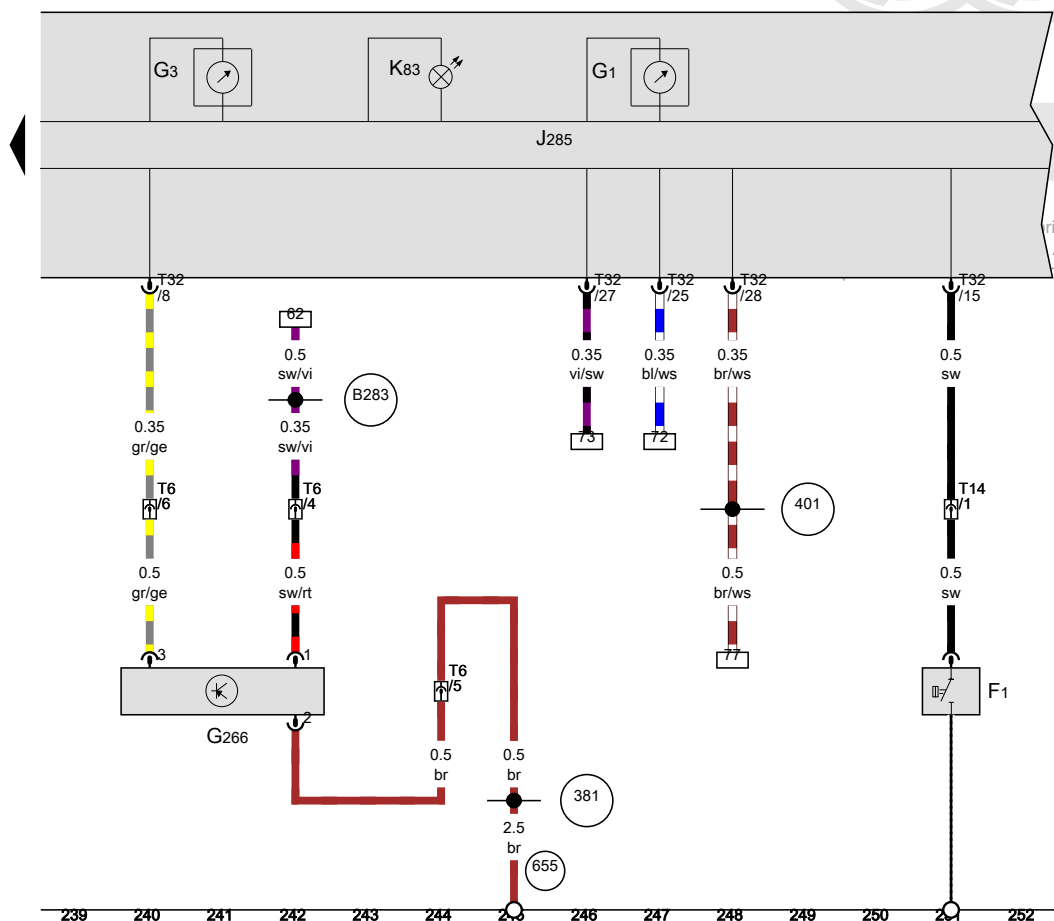
- | | |
|------|------------------------------------|
| J285 | Control unit in dash panel insert |
| J533 | Data bus diagnostic interface |
| K2 | Alternator warning lamp |
| K31 | Cruise control system warning lamp |
| K149 | Engine electronics warning lamp |
| SB12 | Fuse 12 on fuse holder B |
| T20d | 20-pin connector |
| T32 | 32-pin connector |
| T40 | 40-pin connector |

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, on right A-pillar

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Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, near front left longitudinal member
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector
- 381 Earth connection 16, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 655 Earth point, on left headlight
- B283 Positive connection 7 (15a) in main wiring harness



[RP7-08R190518]



2.0l diesel engine , CFFA,CFFB,CLJA

From November 2009

Audi

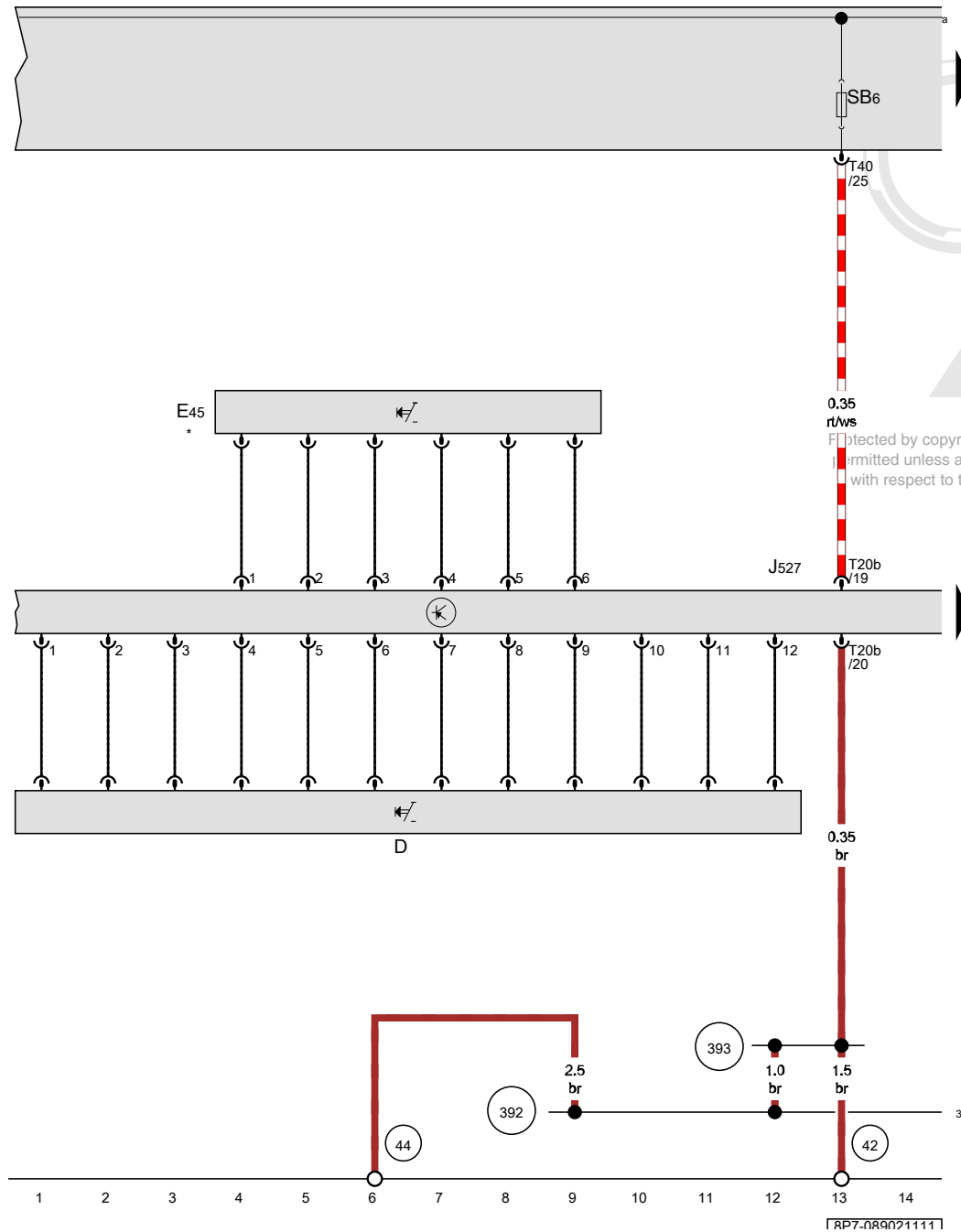
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Ignition/starter switch, Cruise control system switch,
Steering column electronics control unit

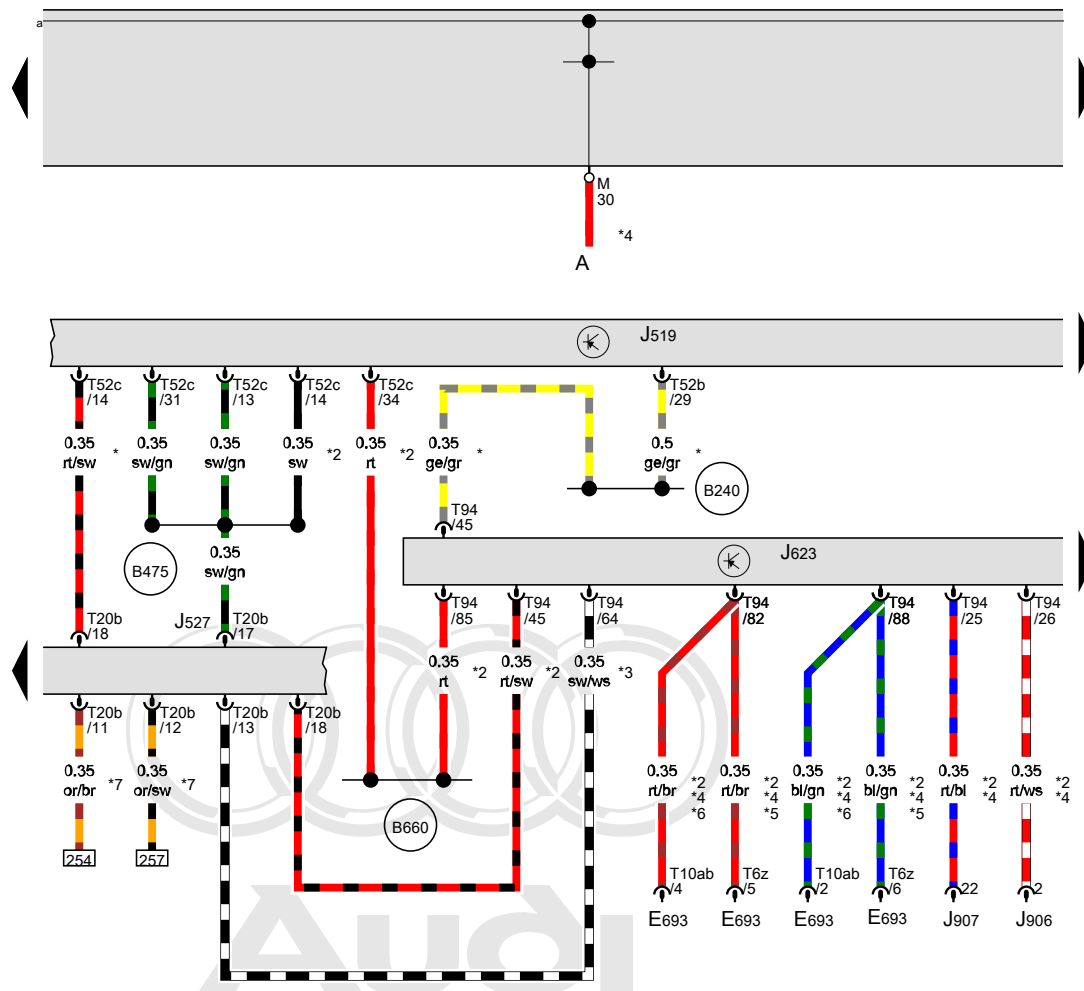
- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness

* Only models with cruise control system (CCS)



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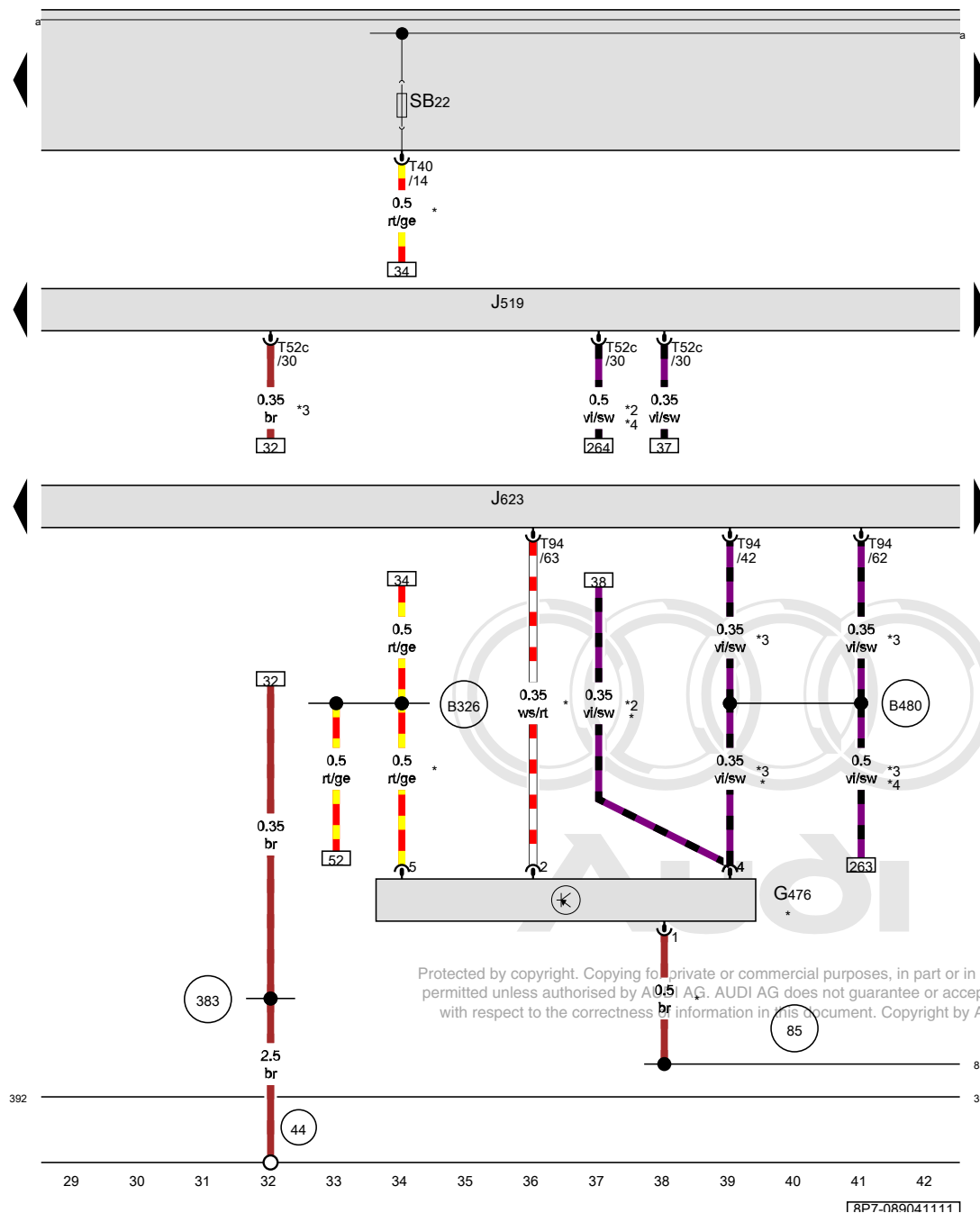
Onboard supply control unit, Steering column electronics control unit, Engine control unit

- A Battery
- E693 Start/Stop operation button
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J906 Starter relay 1
- J907 Starter relay 2
- T6z 6-pin connector
- T10ab 10-pin connector
- T20b 20-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 392 Earth connection 27, in main wiring harness
- B240 Positive connection 2 (50), in interior wiring harness
- B475 Connection 11, in main wiring harness
- B660 Connection (diagnosis terminal 50), in main wiring harness
- * Only models with no start/stop system
- *2 Only models with start/stop system
- *3 Only models with cruise control system (CCS)
- *4 see applicable current flow diagram for battery in engine compartment
- *5 Gradually discontinued
- *6 gradual introduction
- *7 If fitted

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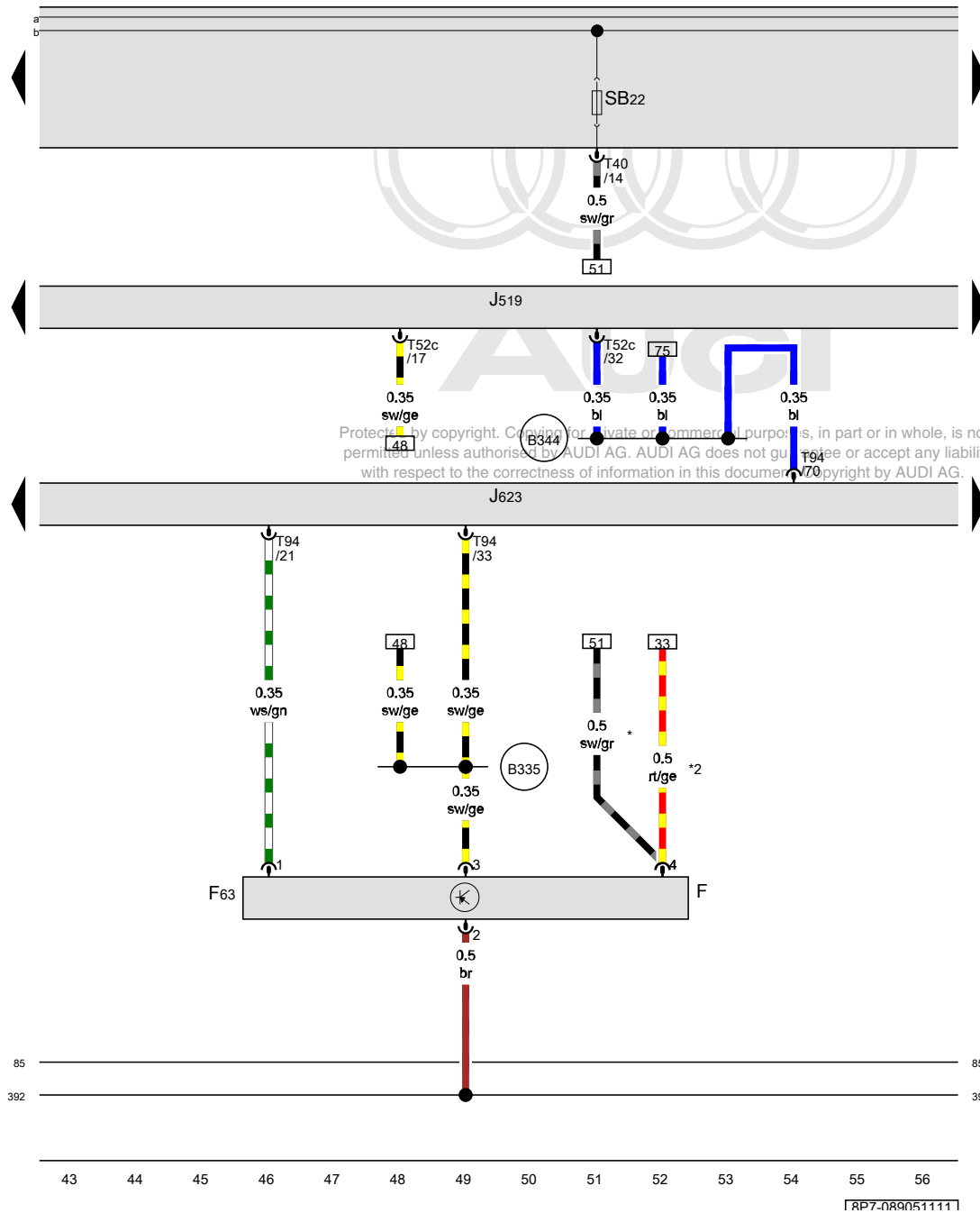


Clutch position sender, Onboard supply control unit, Engine control unit

- G476 Clutch position sender
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 44 Earth point, lower part of left A-pillar
- 85 Earth connection 1, in engine compartment wiring harness
- 383 Earth connection 18, in main wiring harness
- 392 Earth connection 27, in main wiring harness
- B326 Positive connection 12 (30a) in main wiring harness
- B480 Connection 16, in main wiring harness

- * Only models with manual gearbox
- *2 Only models with no start/stop system
- *3 Only models with start/stop system
- *4 Only models with automatic gearbox



Brake light switch, Brake pedal switch, Onboard supply control unit, Engine control unit

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

85 Earth connection 1, in engine compartment wiring harness

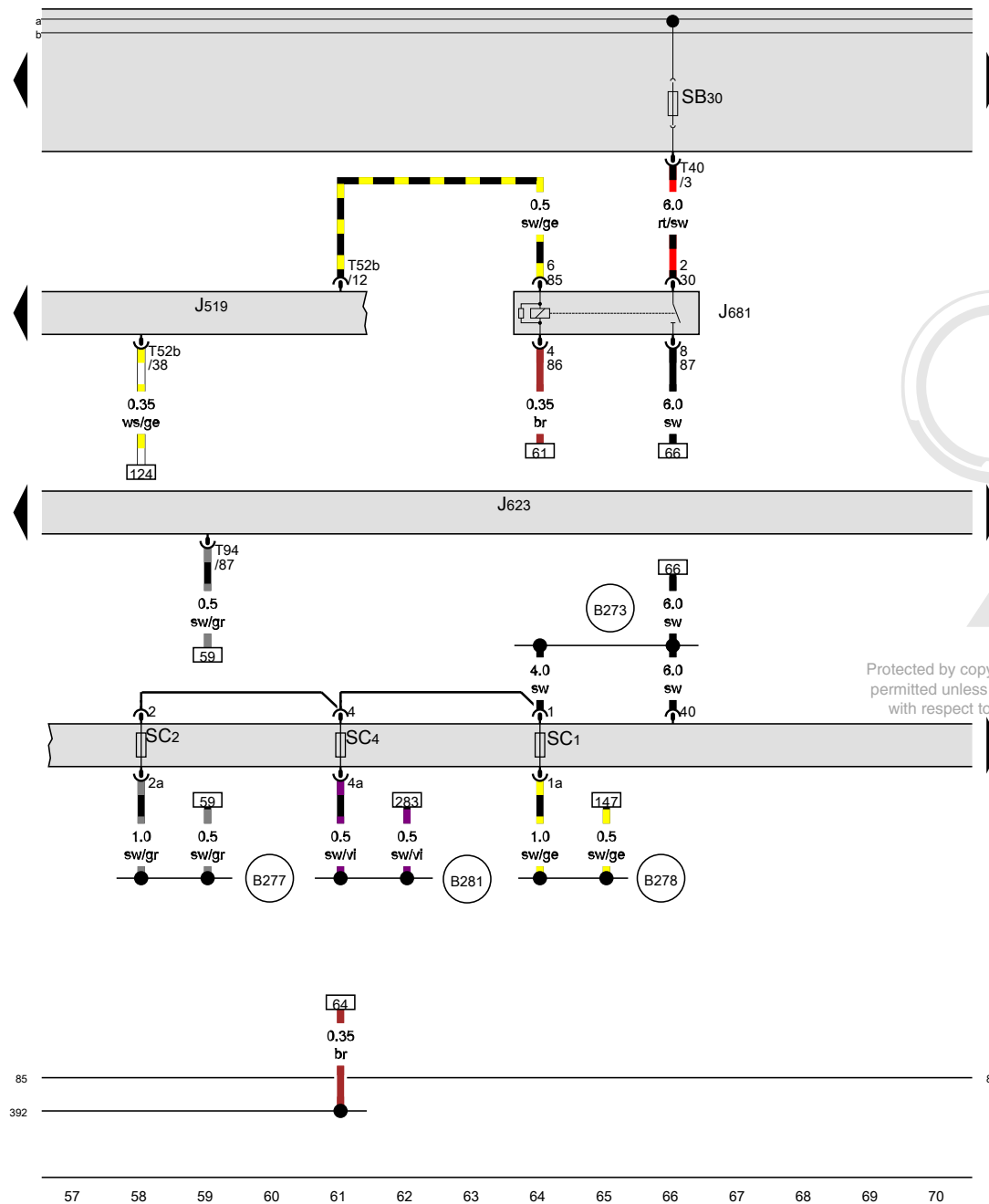
392 Earth connection 27, in main wiring harness

B335 Connection 1 (54), in main wiring harness

B344 Connection 1 (61), in main wiring harness

* Only models with automatic gearbox

*2 Only models with manual gearbox



Onboard supply control unit, Engine control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector
- T52b 52-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B281 Positive connection 5 (15a) in main wiring harness

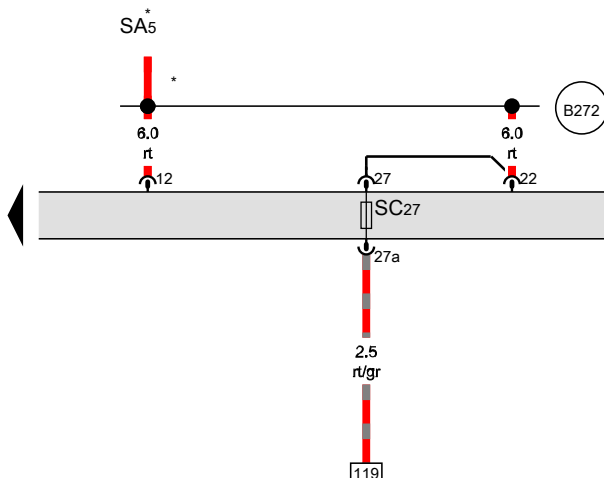
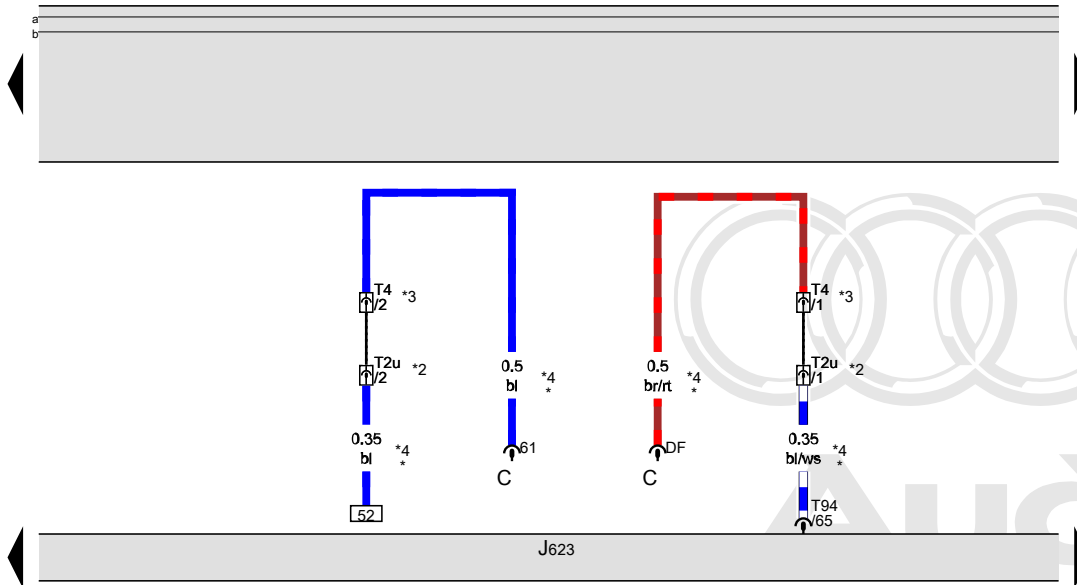
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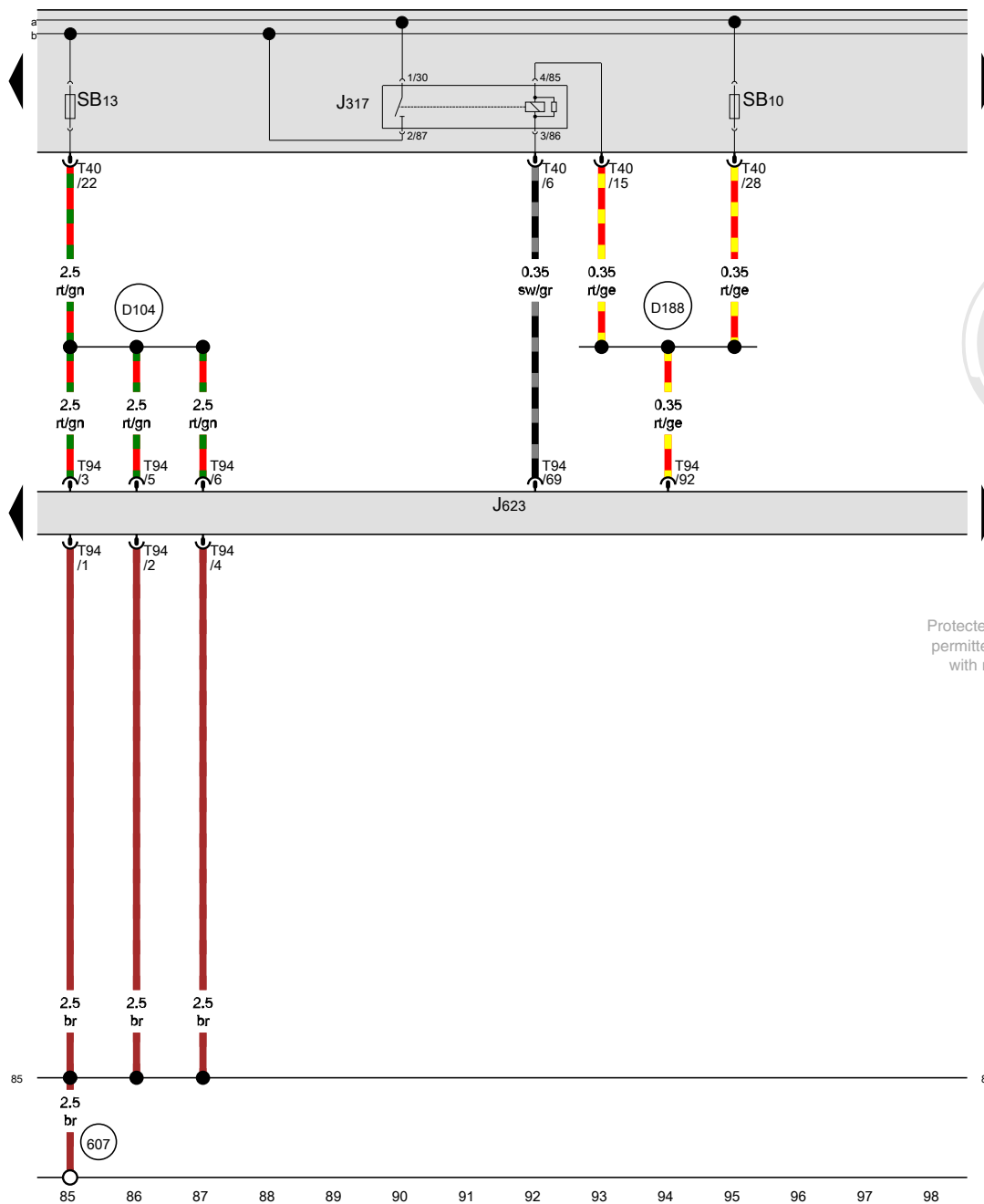
Engine control unit

- C Alternator
- J623 Engine control unit
- SA5 Fuse 5 in fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, on left in engine compartment
- T4 4-pin connector, on left in engine compartment
- T94 94-pin connector
- 85 Earth connection 1, in engine compartment wiring harness
- B272 Positive connection (30), in main wiring harness
- * see applicable current flow diagram for battery in engine compartment
- *2 Only models with no air conditioning system
- *3 Only models with air conditioning system
- *4 Only models with no start/stop system



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18P7-089071111



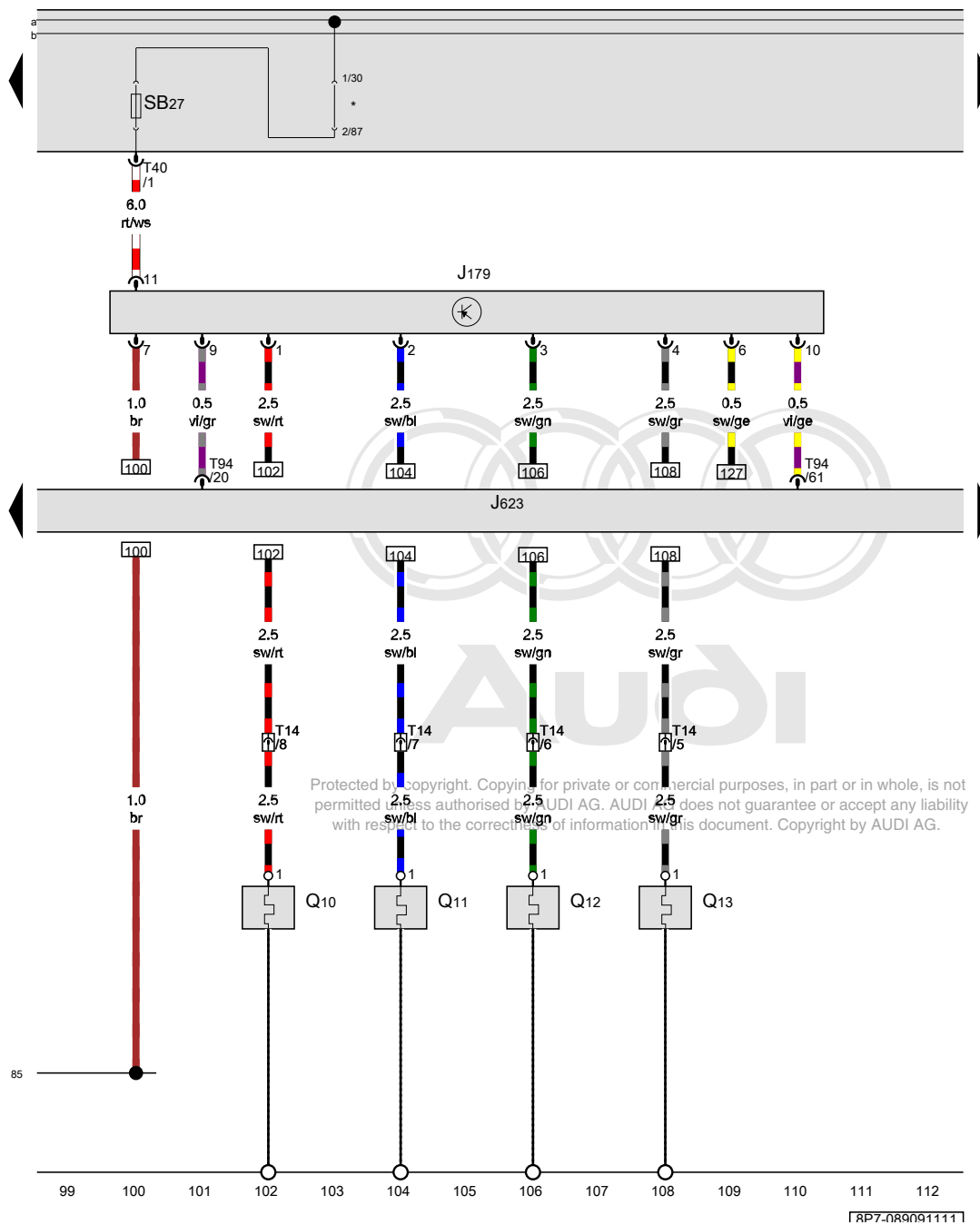
Terminal 30 voltage supply relay, Engine control unit

- J317 Terminal 30 voltage supply relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- T40 40-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D104 Positive connection 2 (30a), in engine compartment wiring harness
- D188 Positive connection 3 (30a), in engine compartment wiring harness

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Automatic glow period control unit, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- SB27 Fuse 27 on fuse holder B
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T94 94-pin connector
- 85 Earth connection 1, in engine compartment wiring harness
- * Contact bridge, only models with diesel engine

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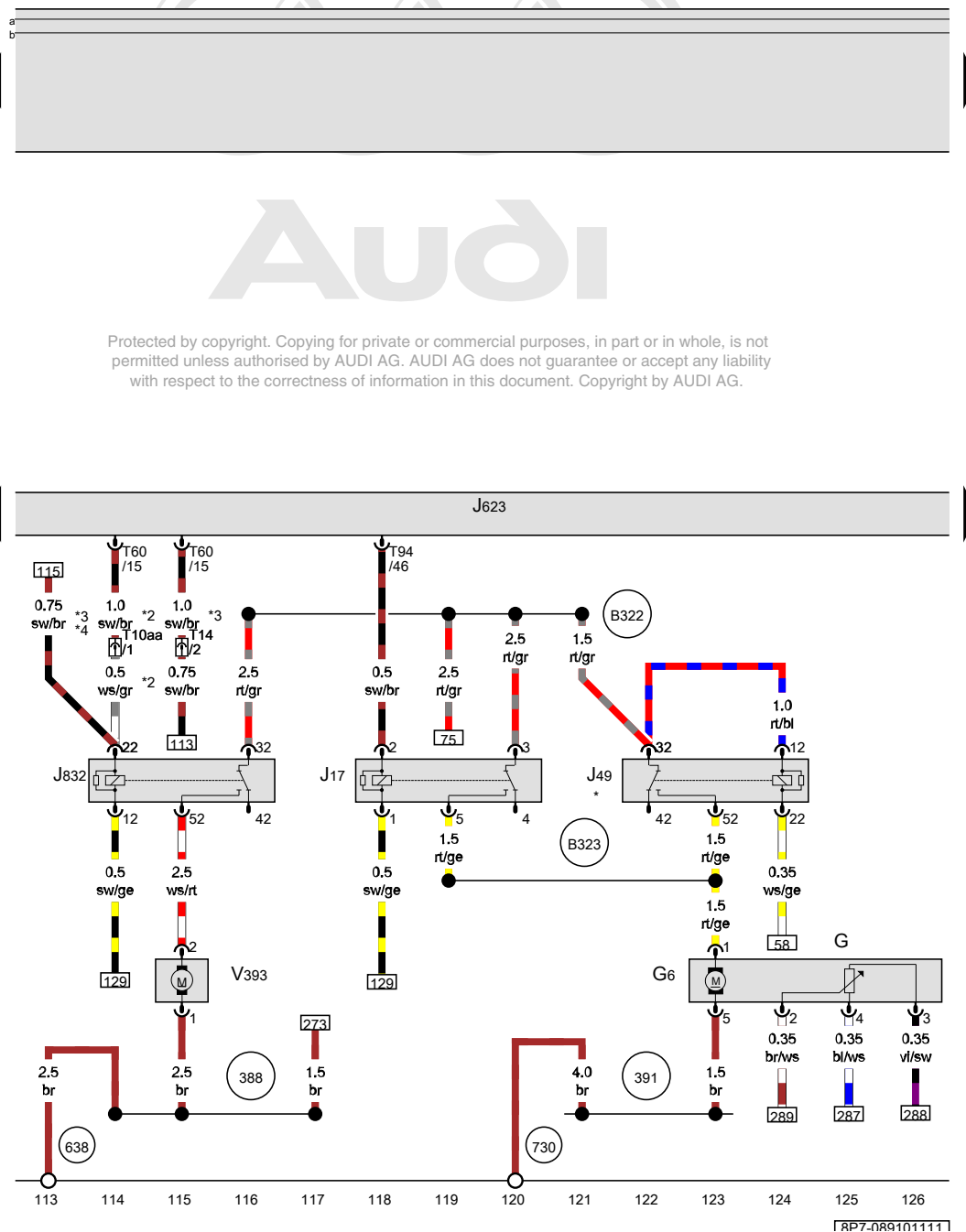
Fuel gauge sender, Fuel system pressurisation pump, Fuel pump relay, Electric fuel pump 2 relay, Engine control unit, Relay for supplementary fuel pump, Supplementary fuel pump

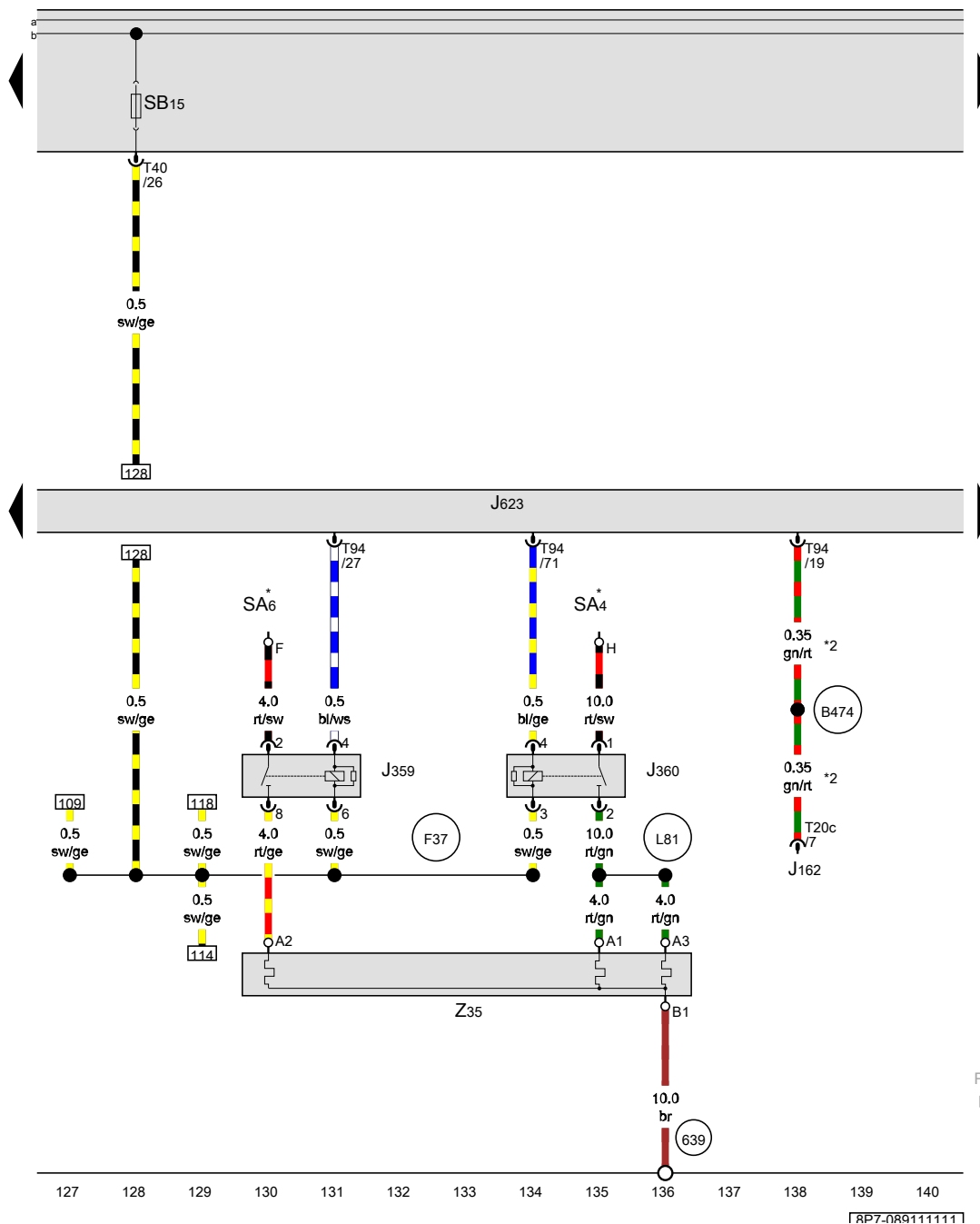
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- J623 Engine control unit
- J832 Relay for supplementary fuel pump
- T10aa 10-pin connector, on left in engine compartment
- T14 14-pin connector, near front left longitudinal member
- T60 60-pin connector
- T94 94-pin connector
- V393 Supplementary fuel pump

- 388 Earth connection 23, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 638 Earth point, on right A-pillar
- 730 Earth point 1, on right rear wheel housing
- B322 Positive connection 8 (30a) in main wiring harness
- B323 Positive connection 9 (30a) in main wiring harness

- * Only models with auxiliary heating
- *2 Up to April 2011
- *3 From May 2011
- *4 Wiring colour depends on equipment

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Low heat output relay, High heat output relay, Engine control unit, Auxiliary air heater element

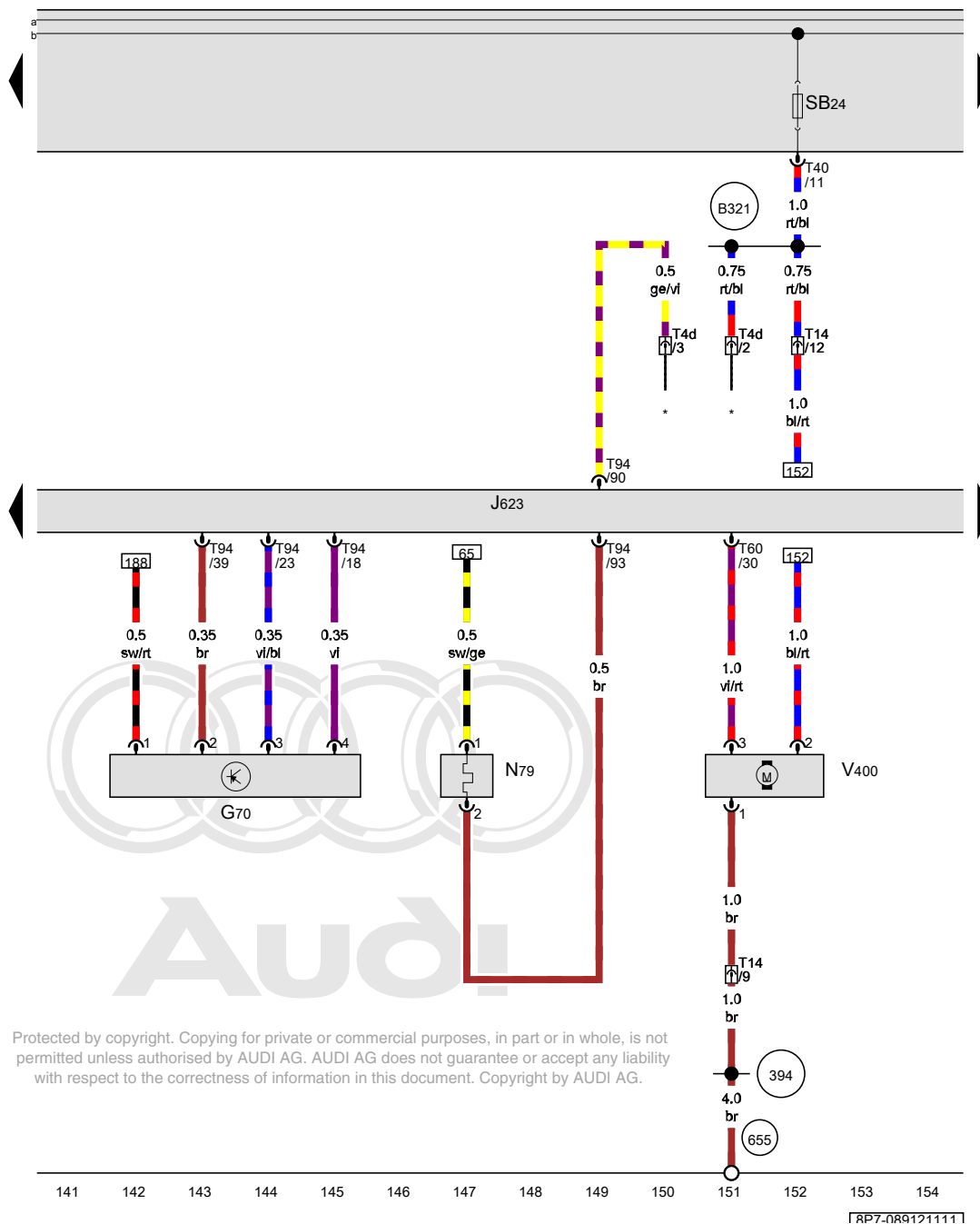
- J162 Heater control unit
- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine control unit
- SA4 Fuse 4 in fuse holder A
- SA6 Fuse 6 in fuse holder A
- SB15 Fuse 15 on fuse holder B
- T20c 20-pin connector
- T40 40-pin connector
- T94 94-pin connector
- Z35 Auxiliary air heater element

- 639 Earth point, left A-pillar
- B474 Connection 10, in main wiring harness
- F37 Connection (auxiliary heater), in diesel direct injection system wiring harness
- L81 Connection in supplementary heater wiring harness

* see applicable current flow diagram for battery in engine compartment

*2 see applicable current flow diagram for manually controlled heater

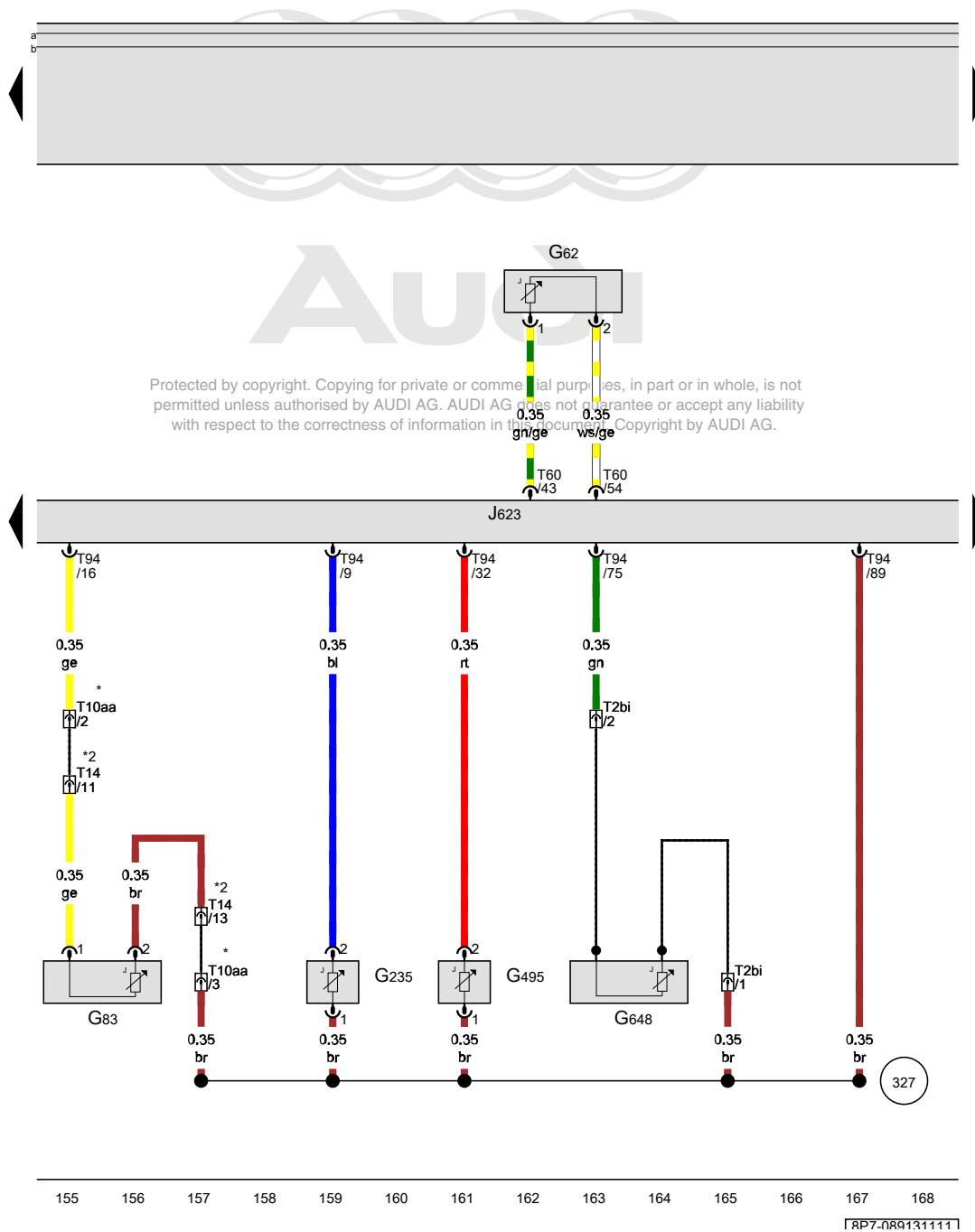
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Air mass meter, Engine control unit, Heater element for crankcase breather, Pump for exhaust gas recirculation cooler

- G70 Air mass meter
- J623 Engine control unit
- N79 Heater element for crankcase breather
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, near radiator fan
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V400 Pump for exhaust gas recirculation cooler
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- B321 Positive connection 7 (30a) in main wiring harness
- * see applicable current flow diagram for radiator fan

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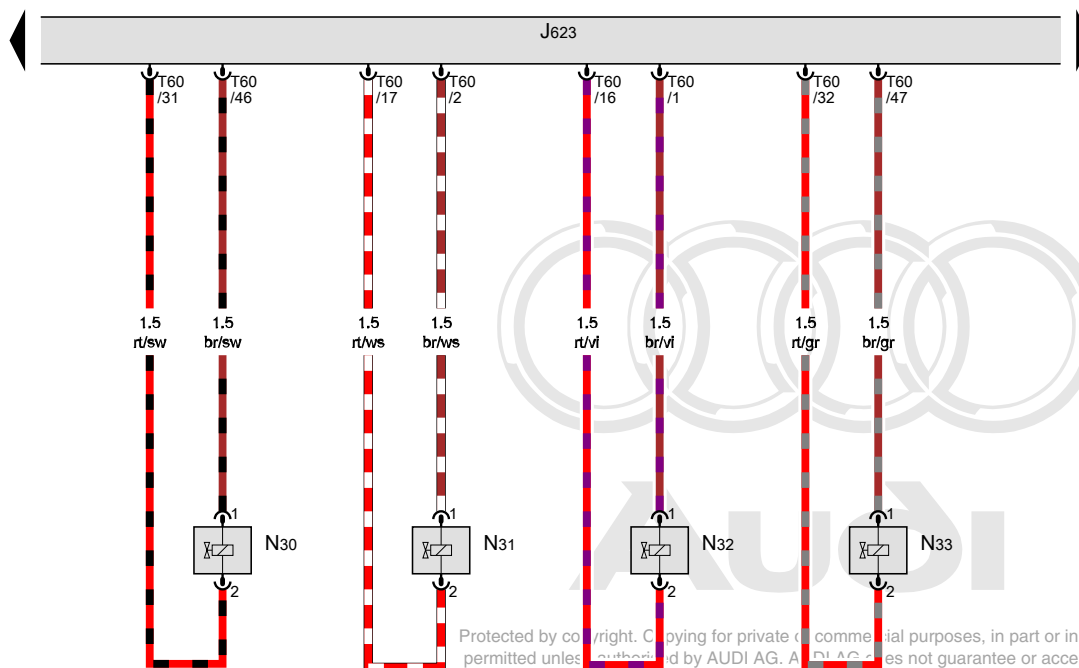


Coolant temperature sender, Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

- G62 Coolant temperature sender
- G83 Radiator outlet coolant temperature sender
- G235 Exhaust gas temperature sender 1
- G495 Exhaust gas temperature sender 3
- G648 Exhaust gas temperature sender 4
- J623 Engine control unit
- T2bi 2-pin connector
- T10aa 10-pin connector, on left in engine compartment
- T14 14-pin connector, near front left longitudinal member
- T60 60-pin connector
- T94 94-pin connector
- 327 Earth connection (sender earth), in engine compartment wiring harness
- * Up to April 2011
- *2 From May 2011

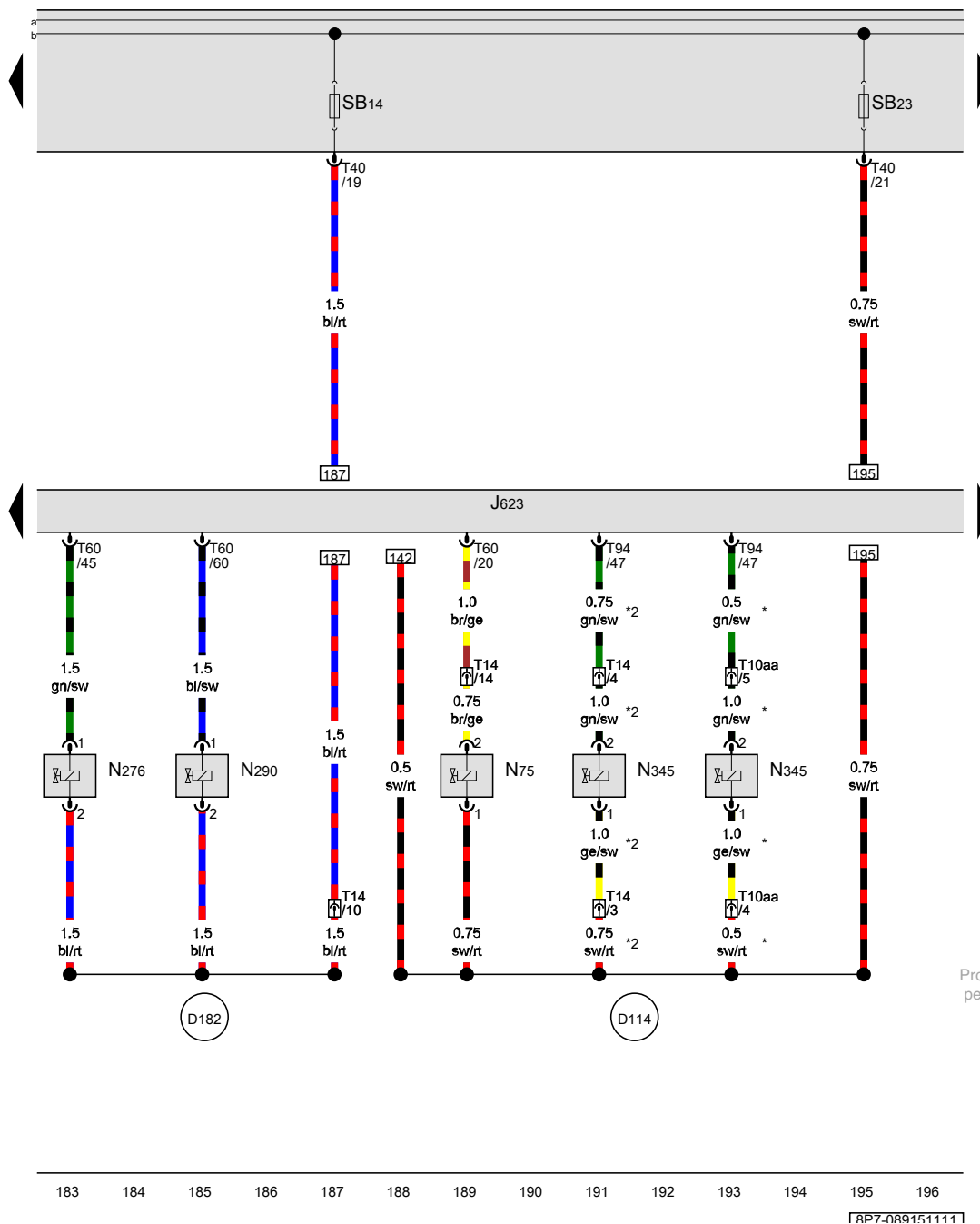
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit
N30 Injector, cylinder 1
N31 Injector, cylinder 2
N32 Injector, cylinder 3
N33 Injector, cylinder 4
T60 60-pin connector



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Engine control unit, Charge pressure control solenoid valve, Fuel pressure regulating valve, Fuel metering valve, Exhaust gas recirculation cooler changeover valve

- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N276 Fuel pressure regulating valve
- N290 Fuel metering valve
- N345 Exhaust gas recirculation cooler changeover valve
- SB14 Fuse 14 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T10aa 10-pin connector, on left in engine compartment
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector

D114 Connection 12 in engine compartment wiring harness

D182 Connection 3 (87a), in engine compartment wiring harness

* Up to April 2011

*2 From May 2011

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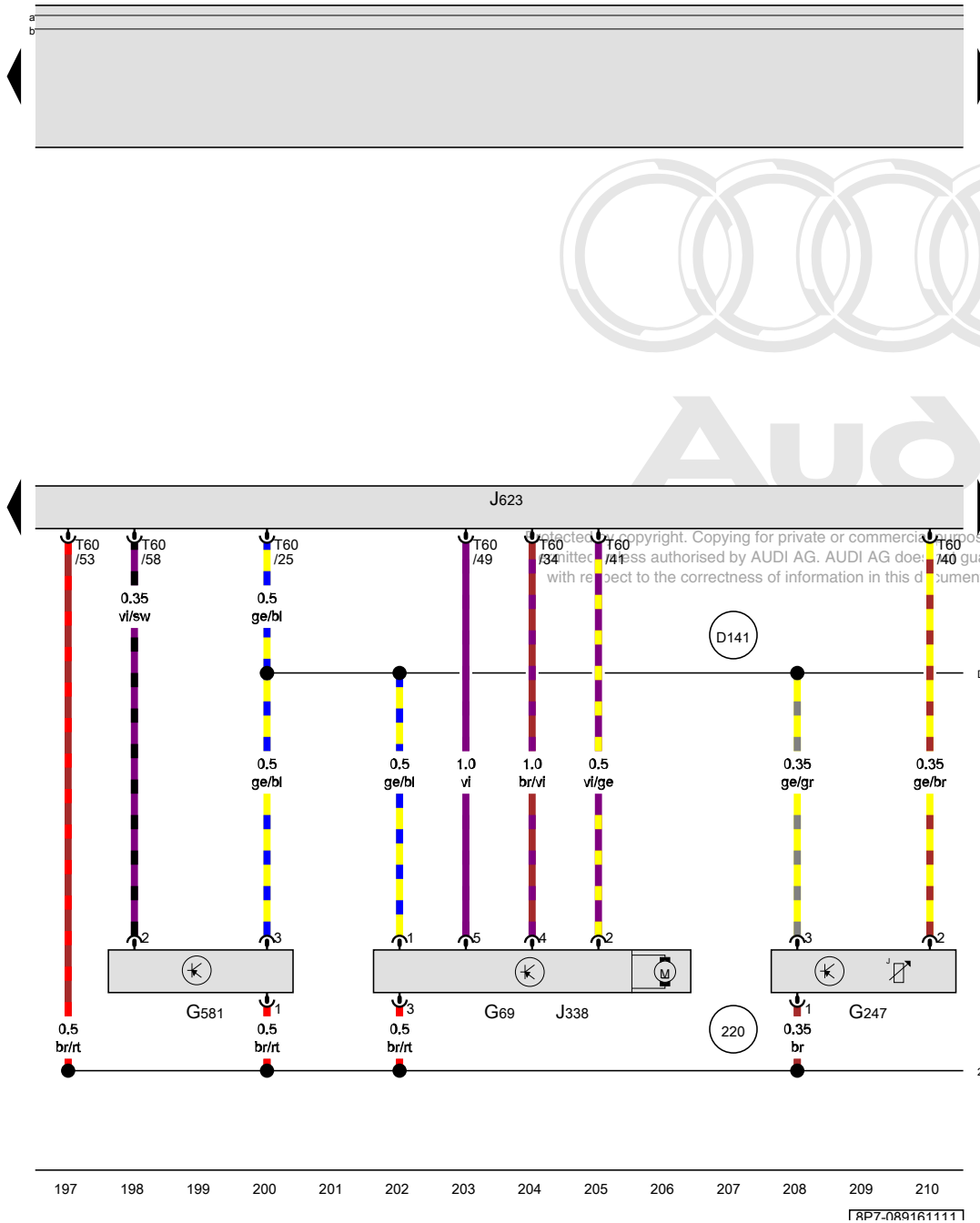
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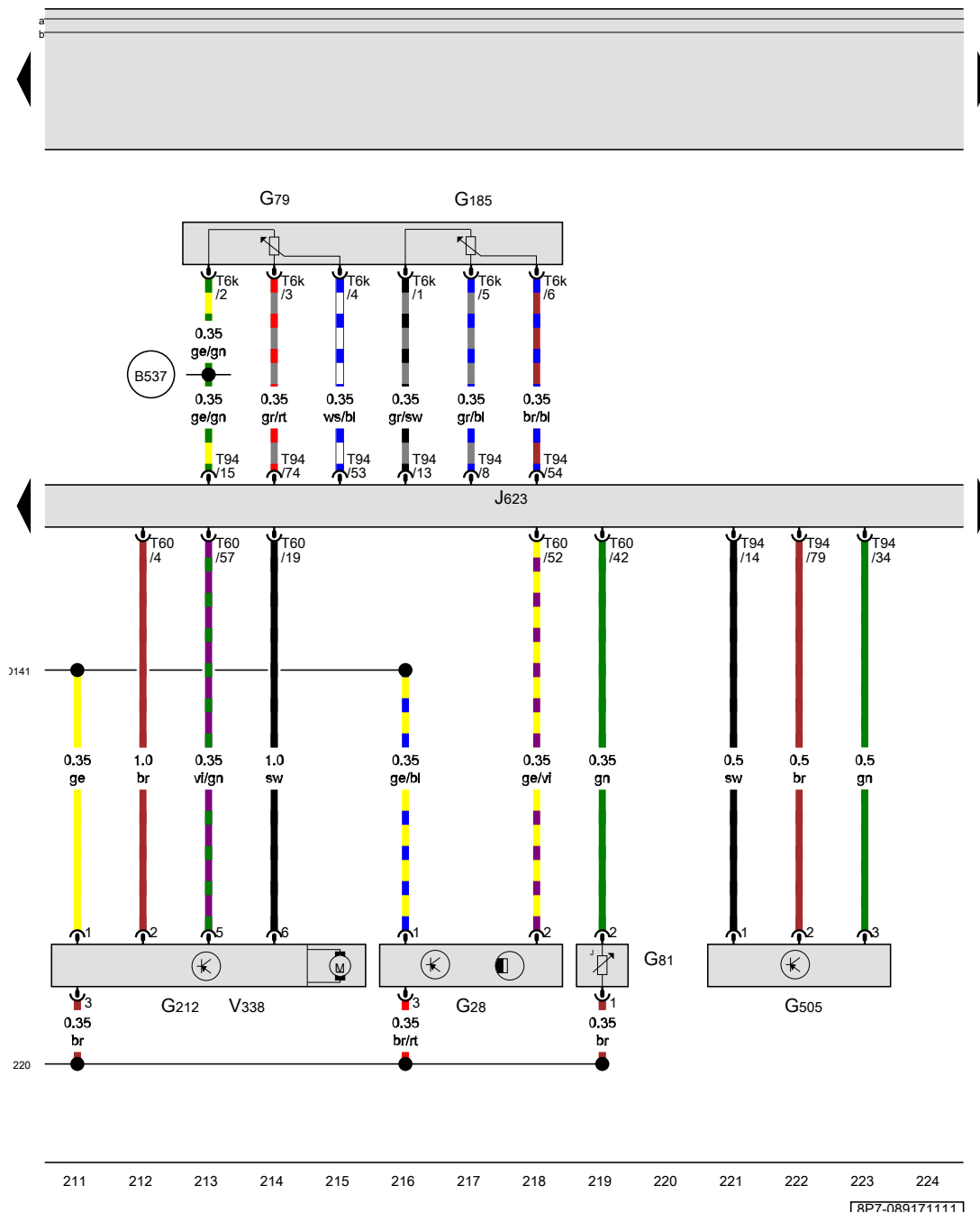
Throttle valve potentiometer, Fuel pressure sender, Position sender for charge pressure positioner, Throttle valve module, Engine control unit

- G69 Throttle valve potentiometer
- G247 Fuel pressure sender
- G581 Position sender for charge pressure positioner
- J338 Throttle valve module
- J623 Engine control unit
- T60 60-pin connector

220 Earth connection (sender earth), in engine wiring harness

D141 Connection (5V) in engine prewiring harness





Engine speed sender, Accelerator position sender, Fuel temperature sender, Exhaust gas recirculation potentiometer, Pressure differential sender, Engine control unit, Exhaust gas recirculation control motor

- G28 Engine speed sender
- G79 Accelerator position sender
- G81 Fuel temperature sender
- G185 Accelerator position sender 2
- G212 Exhaust gas recirculation potentiometer
- G505 Pressure differential sender
- J623 Engine control unit
- T6k 6-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V338 Exhaust gas recirculation control motor

220 Earth connection (sender earth), in engine wiring harness

B537 Connection 28, in main wiring harness

D141 Connection (5V) in engine prewiring harness

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Charge pressure sender, Intake air temperature sender,
Pressure differential sender, Gearbox neutral position
sender, Engine control unit

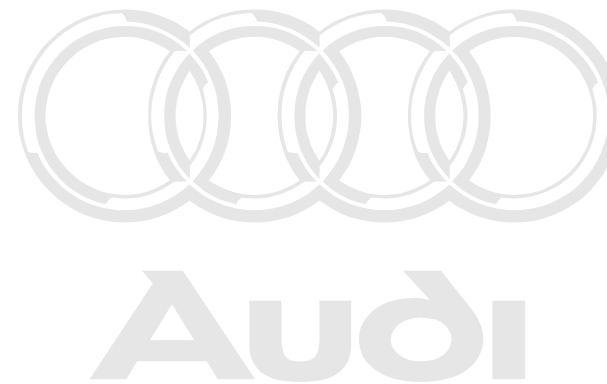
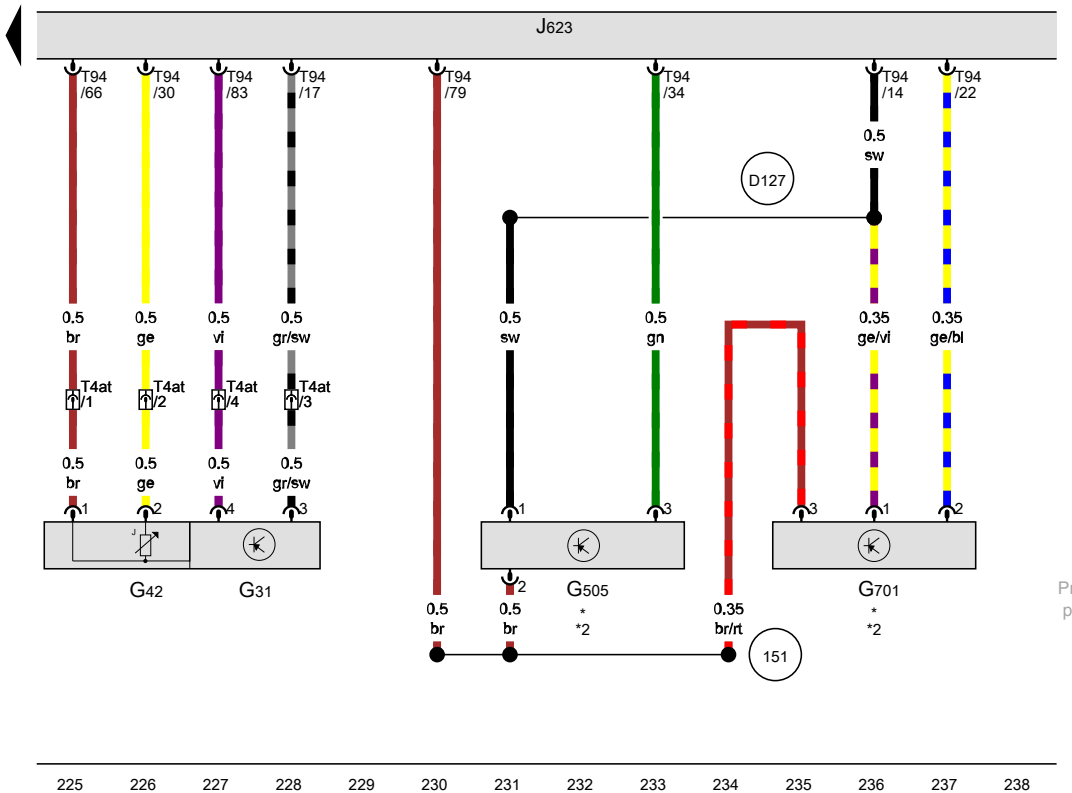
- G31 Charge pressure sender
- G42 Intake air temperature sender
- G505 Pressure differential sender
- G701 Gearbox neutral position sender
- J623 Engine control unit
- T4at 4-pin connector, near starter
- T94 94-pin connector

151 Earth connection 1, in front wiring harness

D127 Connection 25 in engine compartment wiring harness

* Only models with start/stop system

*2 Only models with manual gearbox



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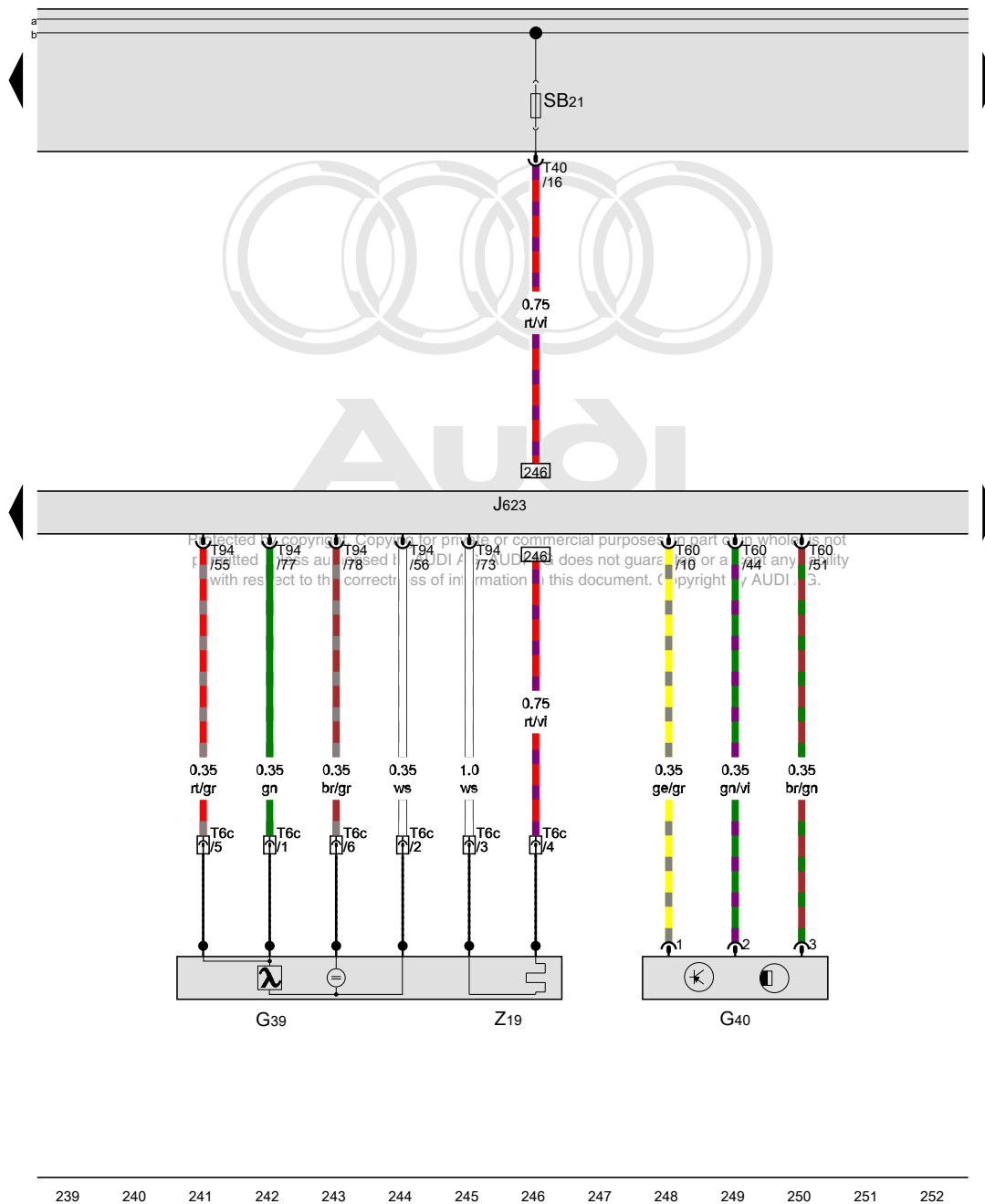
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[AP7-0891R1111]



Lambda probe, Hall sender, Engine control unit, Lambda probe heater

- G39 Lambda probe
- G40 Hall sender
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T40 40-pin connector
- T6c 6-pin connector, on Lambda probe before catalytic converter
- T60 60-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater



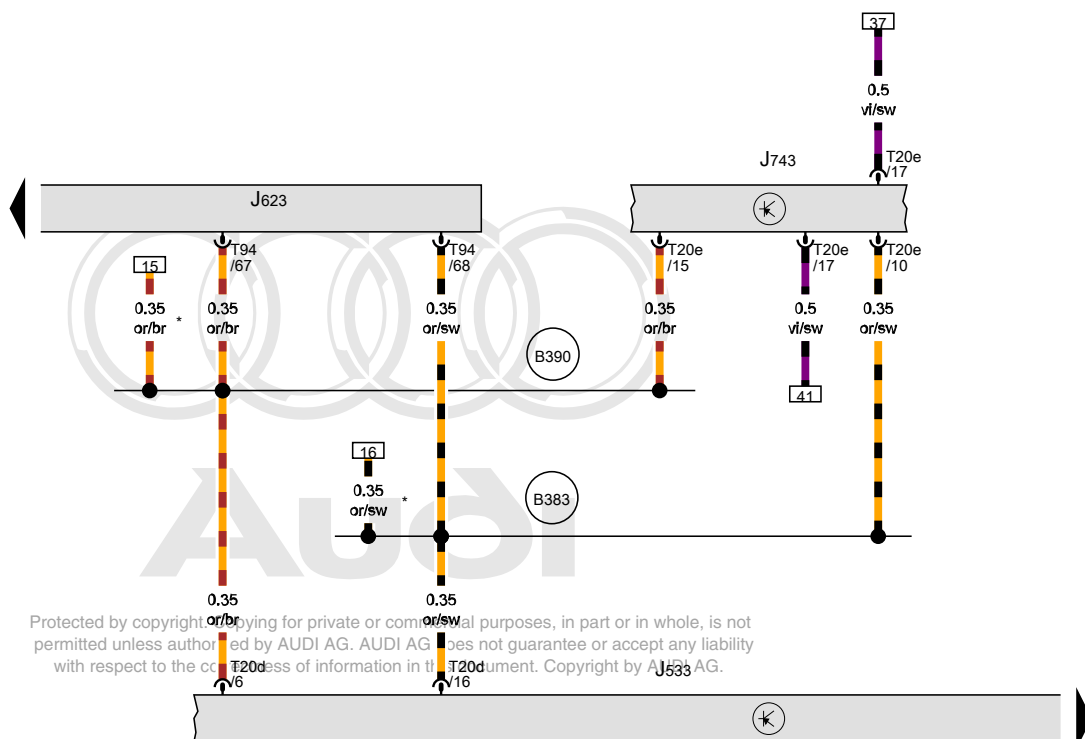
Data bus diagnostic interface, Engine control unit,
Mechatronic unit for dual clutch gearbox

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T20d 20-pin connector
- T20e 20-pin connector
- T94 94-pin connector

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

* If fitted

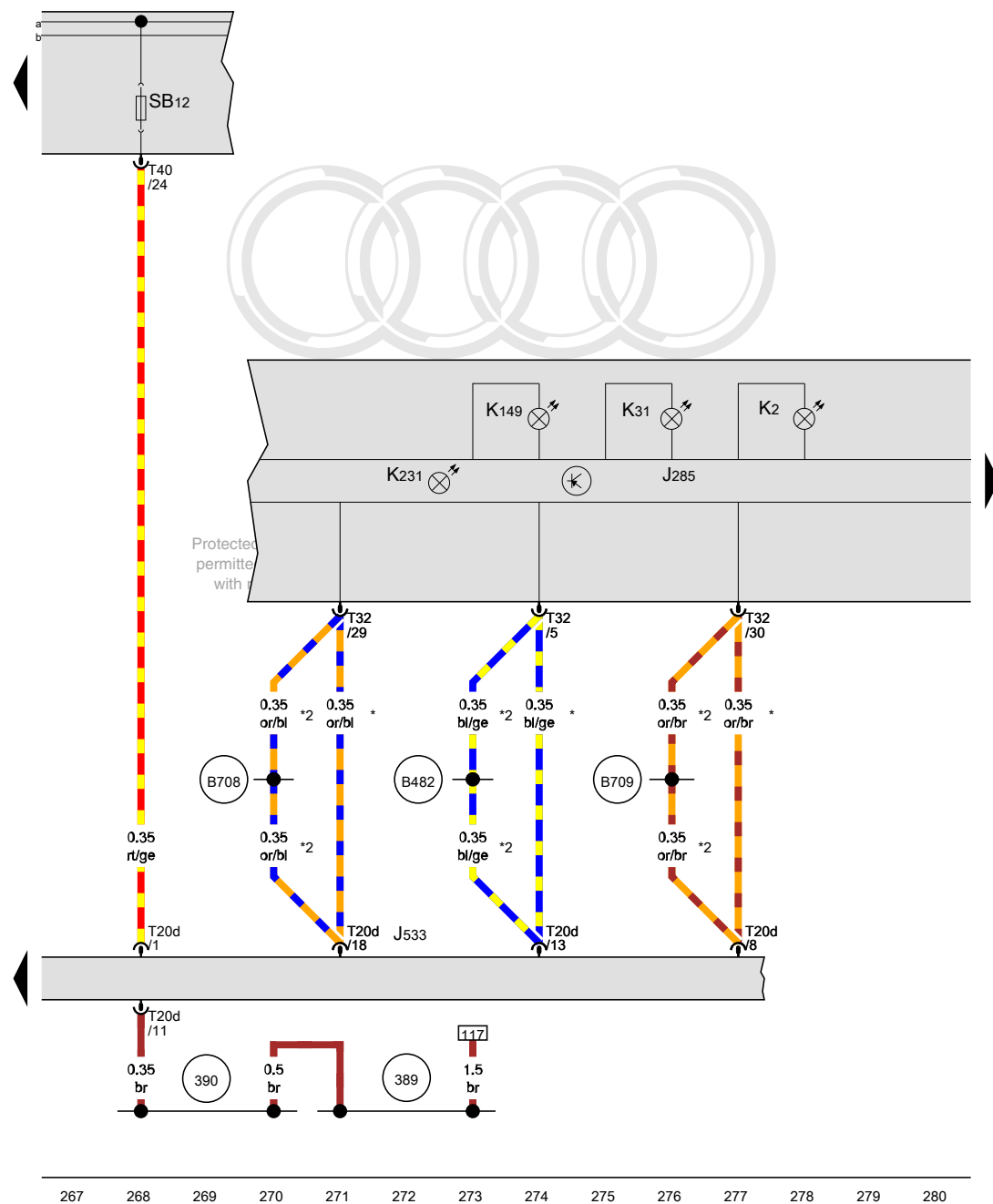


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253 254 255 256 257 258 259 260 261 262 263 264 265 266

[RP7-0892011111]



Control unit in dash panel insert, Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- K231 Diesel particulate filter warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

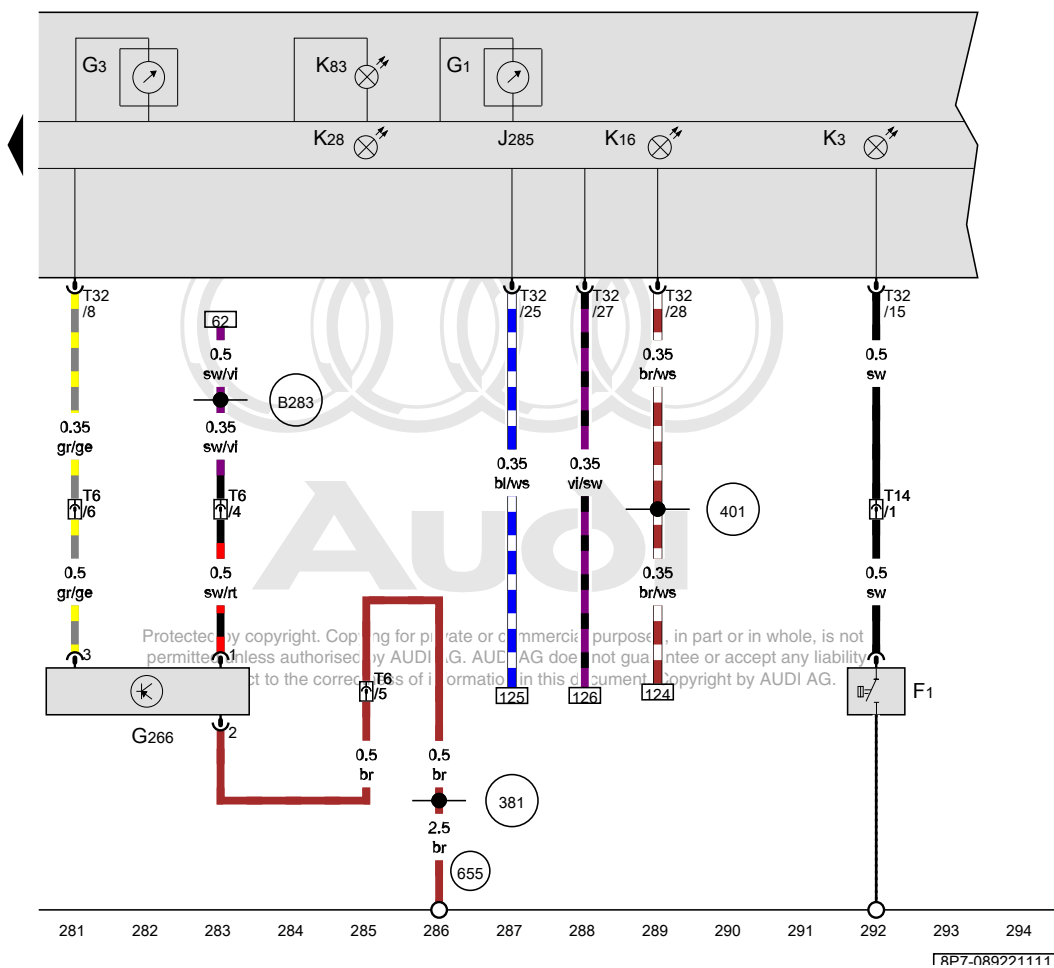
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * gradual introduction
- *2 Gradually discontinued

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Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, near front left longitudinal member
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector

- 381 Earth connection 16, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 655 Earth point, on left headlight
- B283 Positive connection 7 (15a) in main wiring harness



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Convenience system, right-hand drive

From May 2009



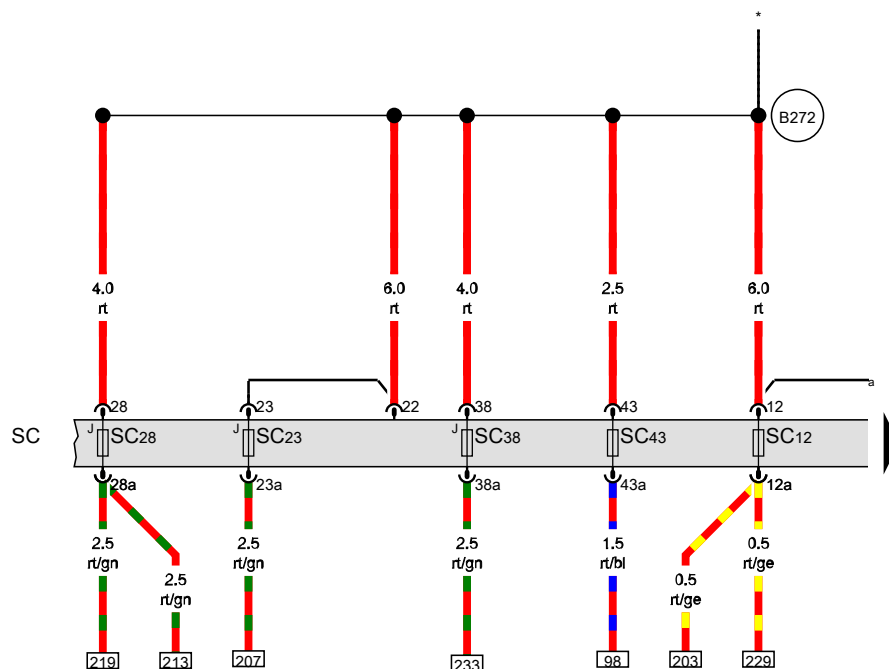
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Fuse holder C

SC Fuse holder C
 SC12 Fuse 12 on fuse holder C
 SC23 Fuse 23 on fuse holder C
 SC28 Fuse 28 on fuse holder C
 SC38 Fuse 38 on fuse holder C
 SC43 Fuse 43 on fuse holder C

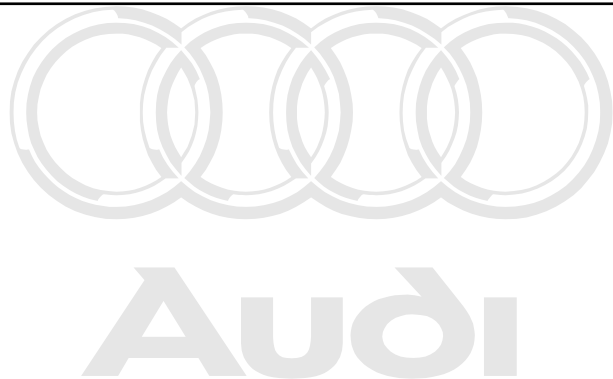
B272 Positive connection (30), in main wiring harness

* see applicable current flow diagram for battery in engine compartment

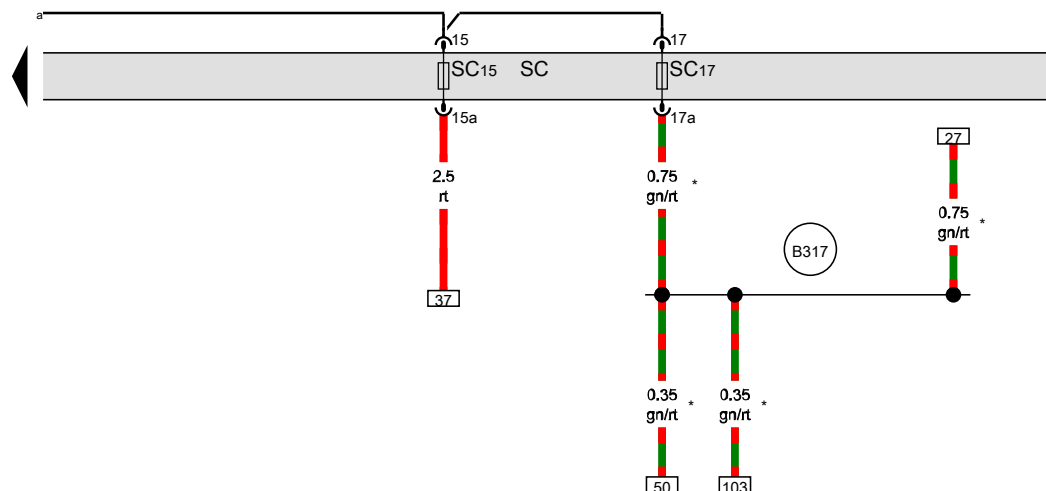
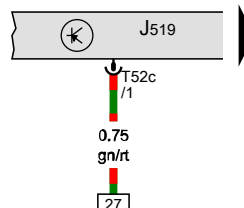


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Fuse holder C

J519 Onboard supply control unit

SC Fuse holder C

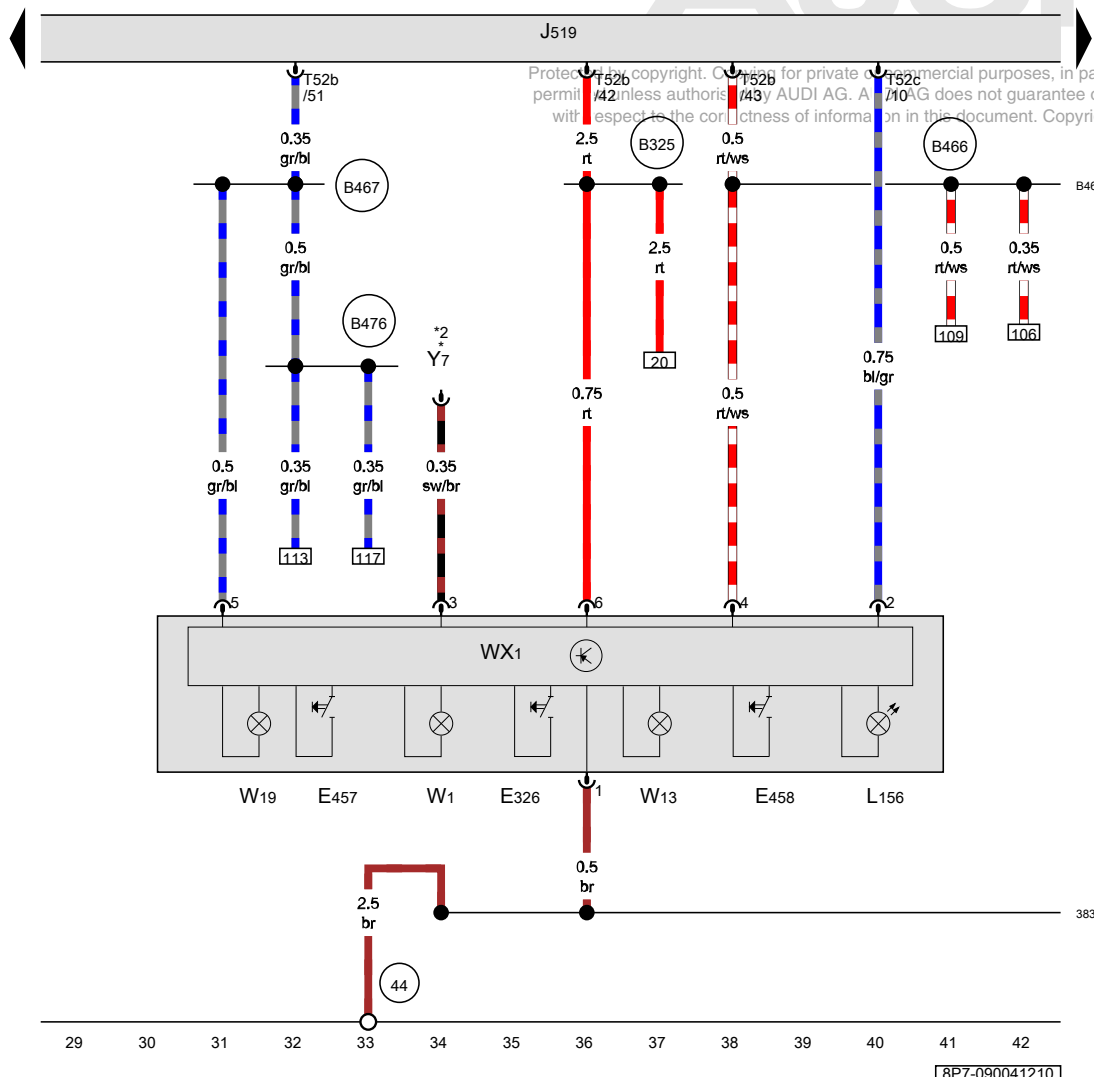
SC15 Fuse 15 on fuse holder C

SC17 Fuse 17 on fuse holder C

T52c 52-pin connector

(B317) Positive connection 3 (30a) in main wiring harness

* For models with anti-theft alarm system



Front interior light

- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- L156 Switch illumination bulb
- T52b 52-pin connector
- T52c 52-pin connector
- WX1 Front interior light
- W1 Front interior light
- W13 Front passenger reading light
- W19 Driver side reading light
- Y7 Automatic anti-dazzle interior mirror

- 44 Earth point, lower part of left A-pillar
- 383 Earth connection 18, in main wiring harness
- B325 Positive connection 11 (30a) in main wiring harness
- B466 Connection 2, in main wiring harness
- B467 Connection 3, in main wiring harness
- B476 Connection 12, in main wiring harness
- * Only models with automatic anti-dazzle interior mirror
- *2 see applicable current flow diagram



Driver vanity mirror contact switch, Bonnet contact switch, Interior monitoring sensor

- F147 Driver vanity mirror contact switch
- F266 Bonnet contact switch
- G273 Interior monitoring sensor
- J519 Onboard supply control unit
- T52a 52-pin connector
- W20 Driver side illuminated vanity mirror

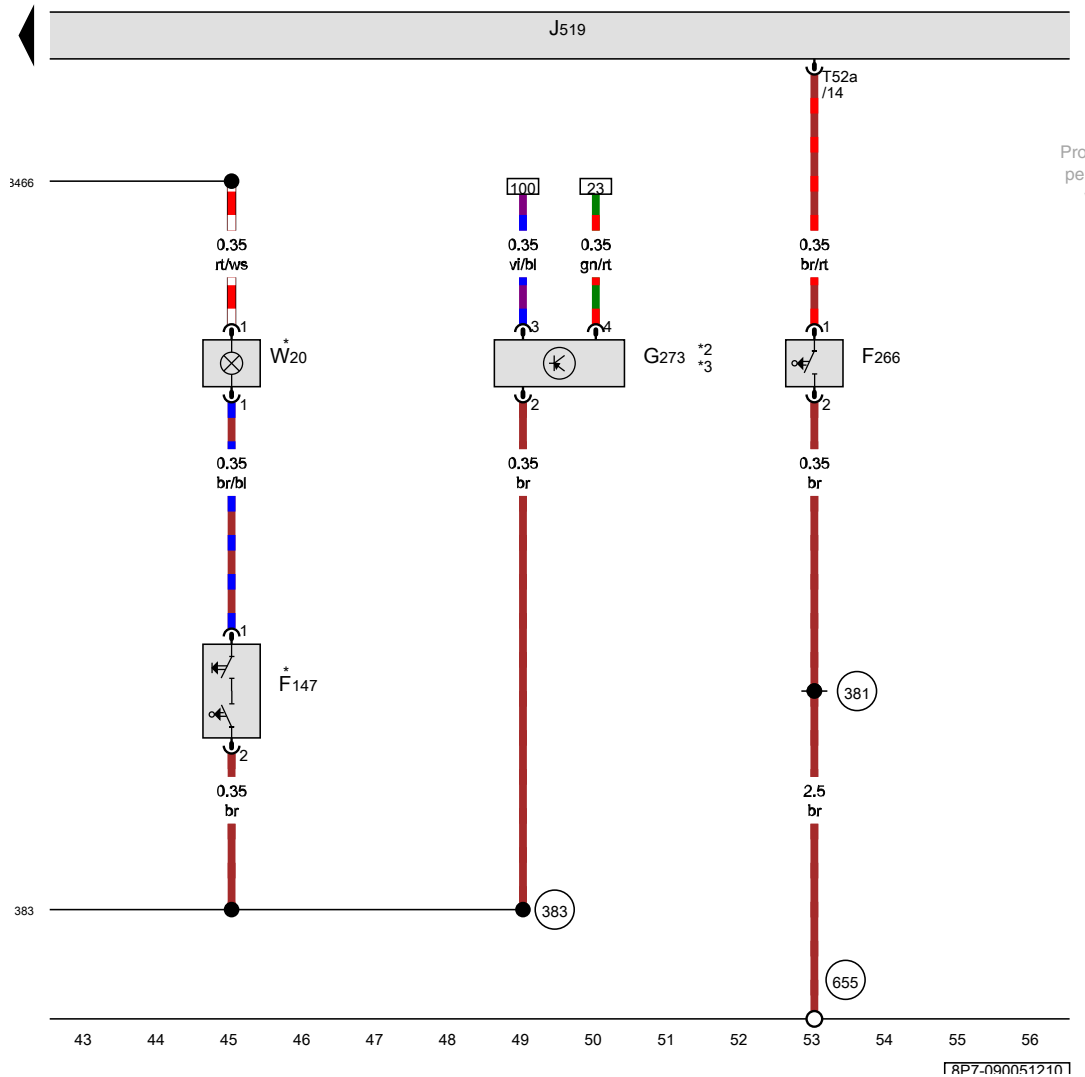
381 Earth connection 16, in main wiring harness

383 Earth connection 18, in main wiring harness

655 Earth point, on left headlight

B466 Connection 2, in main wiring harness

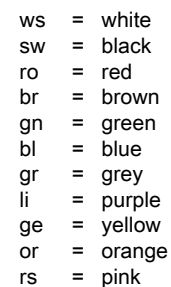
- * Only models with illuminated vanity mirror
- *2 Only models with interior monitoring sensor
- *3 For models with anti-theft alarm system



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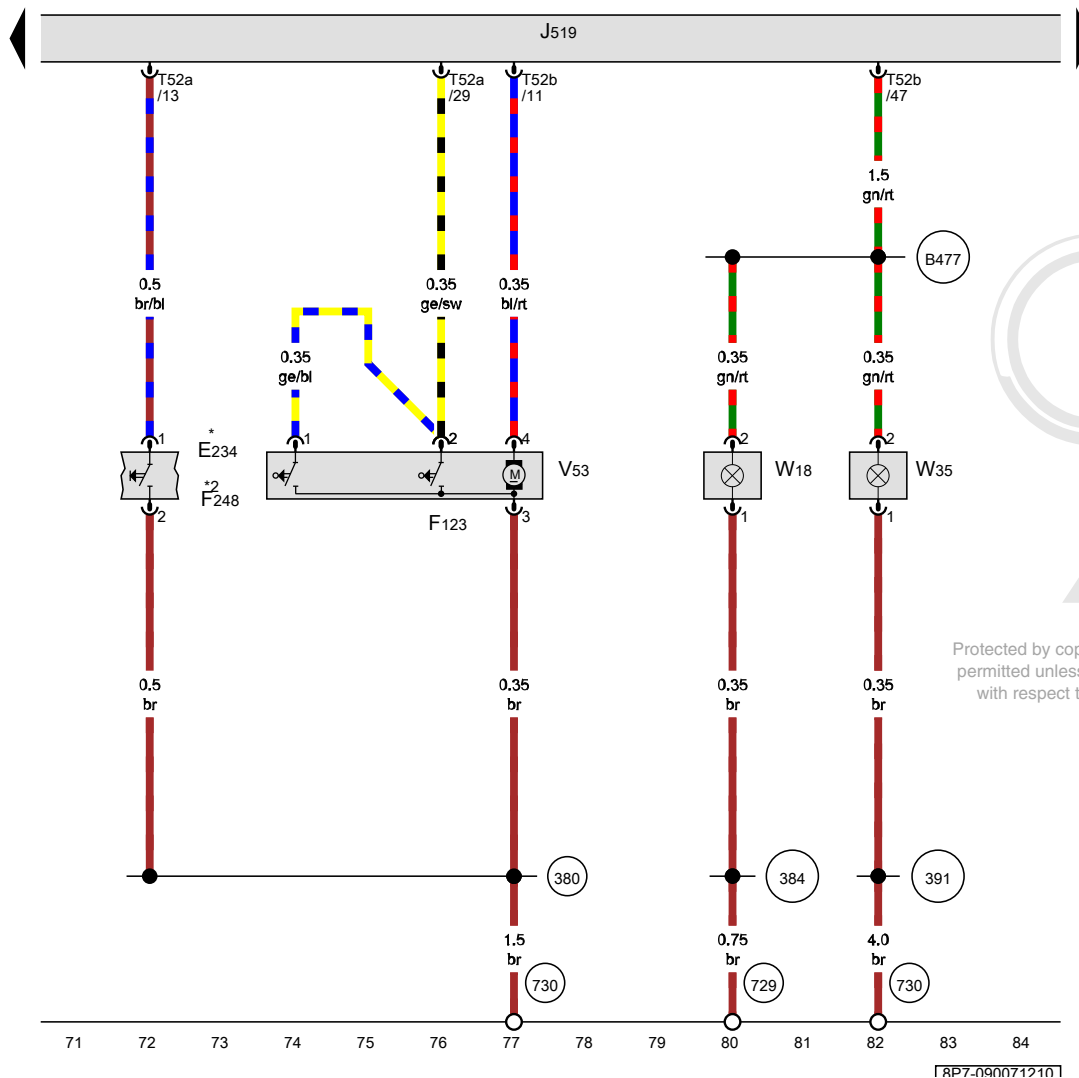
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J519	Onboard supply control unit
R111	Aerial amplifier 2
R253	Right windscreen aerial
T3v	3-pin connector
T52c	52-pin connector
*	Up to April 2010
*2	Only models with no radio or navigation system
*3	Only models with central locking
*4	Only models with radio navigation system
*5	Only models with radio
*6	From May 2010

Rear lid handle release button, Rear lid contact switch for anti-theft alarm, Rear lid central locking motor

- E234 Rear lid handle release button
- F123 Rear lid contact switch for anti-theft alarm
- F248 Release button for rear lid lock cylinder
- J519 Onboard supply control unit
- T52a 52-pin connector
- T52b 52-pin connector
- V53 Rear lid central locking motor
- W18 Luggage compartment light on left
- W35 Right luggage compartment light



- 380 Earth connection 15, in main wiring harness
- 384 Earth connection 19, in main wiring harness
- 391 Earth connection 26, in main wiring harness
- 729 Earth point, on left rear wheel housing
- 730 Earth point 1, on right rear wheel housing
- B477 Connection 13, in main wiring harness

- * gradual introduction
- *2 Gradually discontinued

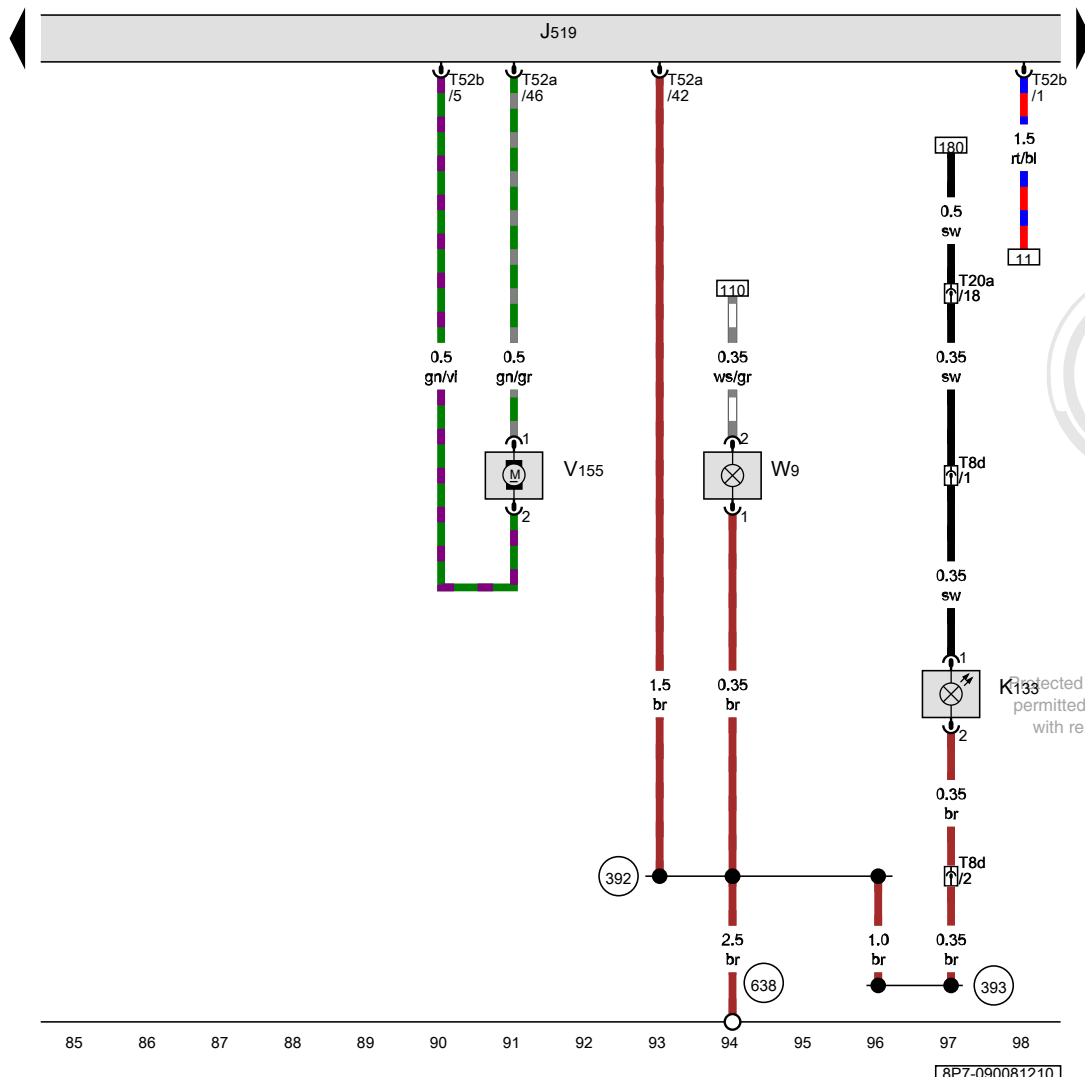
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Central locking deadlock function warning lamp -SAFE-,
Tank filler flap locking motor, Left footwell light

- J519 Onboard supply control unit
- K133 Central locking deadlock function warning lamp -SAFE-
- T8d 8-pin connector, behind centre console
- T20a 20-pin connector, on lower section of right A-pillar
- T52a 52-pin connector
- T52b 52-pin connector
- V155 Tank filler flap locking motor
- W9 Left footwell light

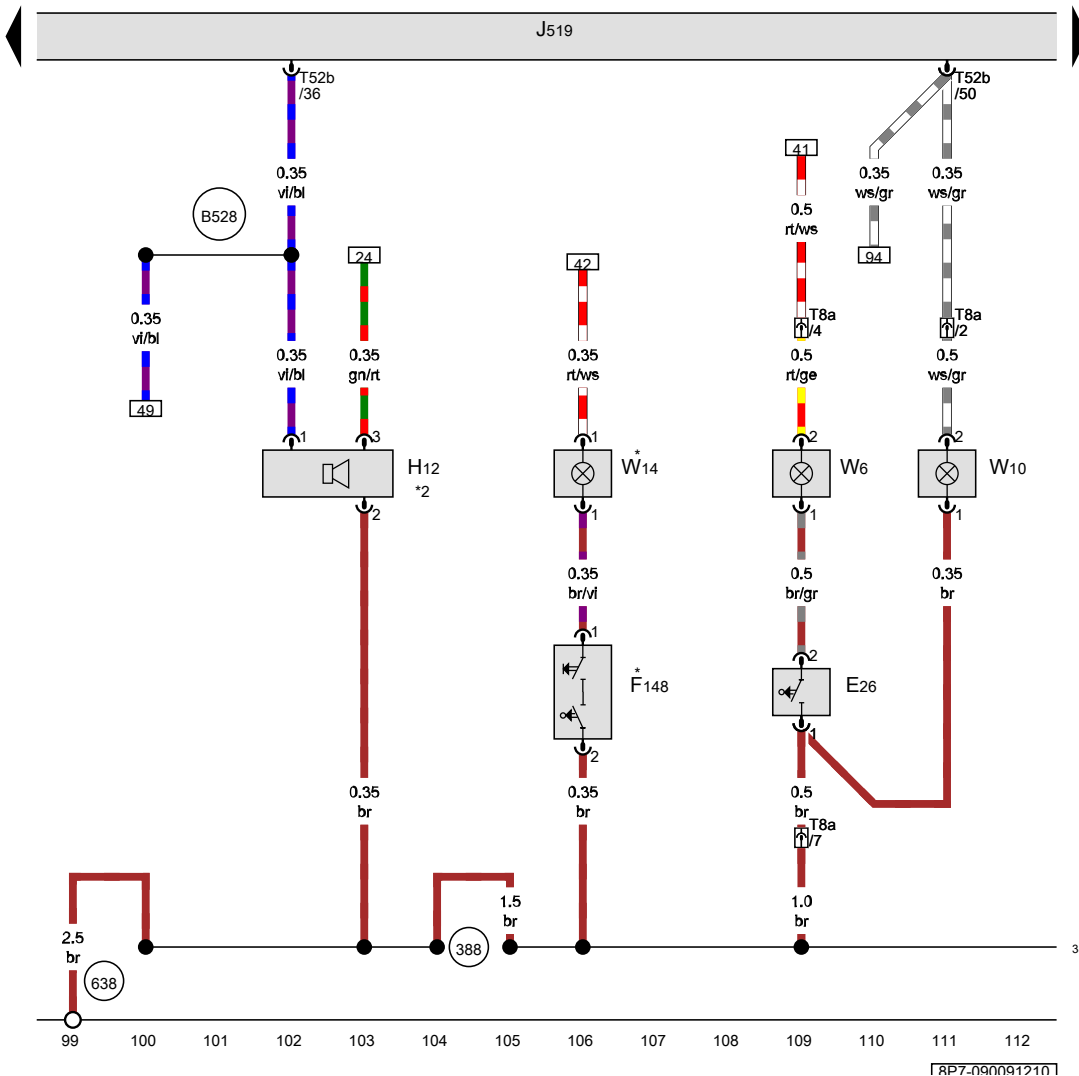
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness
- 638 Earth point, on right A-pillar



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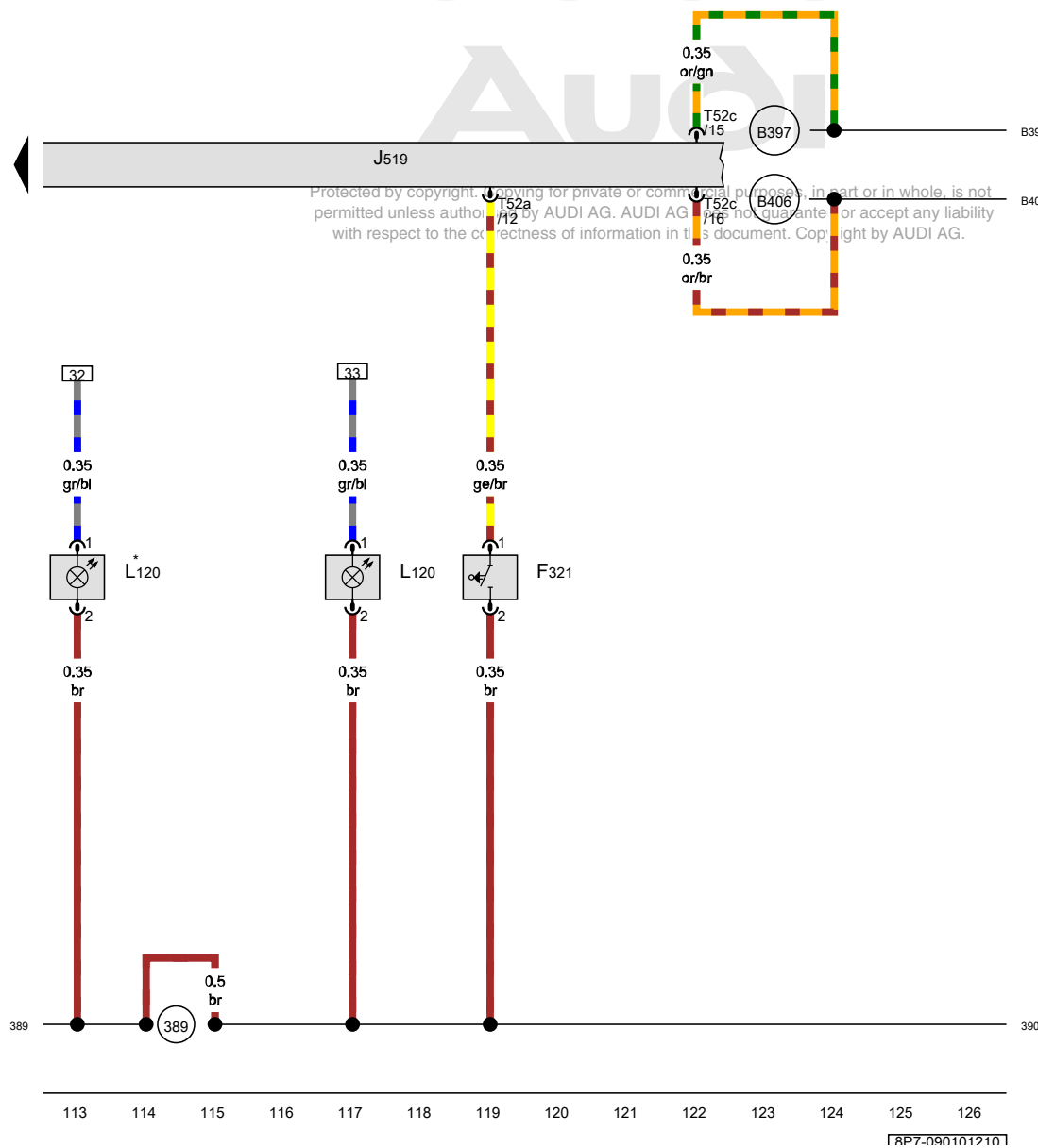
Front passenger vanity mirror contact switch, Alarm horn, Glove compartment light, Right footwell light

- E26 Glove compartment light switch
- F148 Front passenger vanity mirror contact switch
- H12 Alarm horn
- J519 Onboard supply control unit
- T8a 8-pin connector, near glove compartment
- T52b 52-pin connector
- W6 Glove compartment light
- W10 Right footwell light
- W14 Front passenger side illuminated vanity mirror



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- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 638 Earth point, on right A-pillar
- B528 Connection 1 (LIN bus) in main wiring harness
- * Only models with illuminated vanity mirror
- *2 For models with anti-theft alarm system

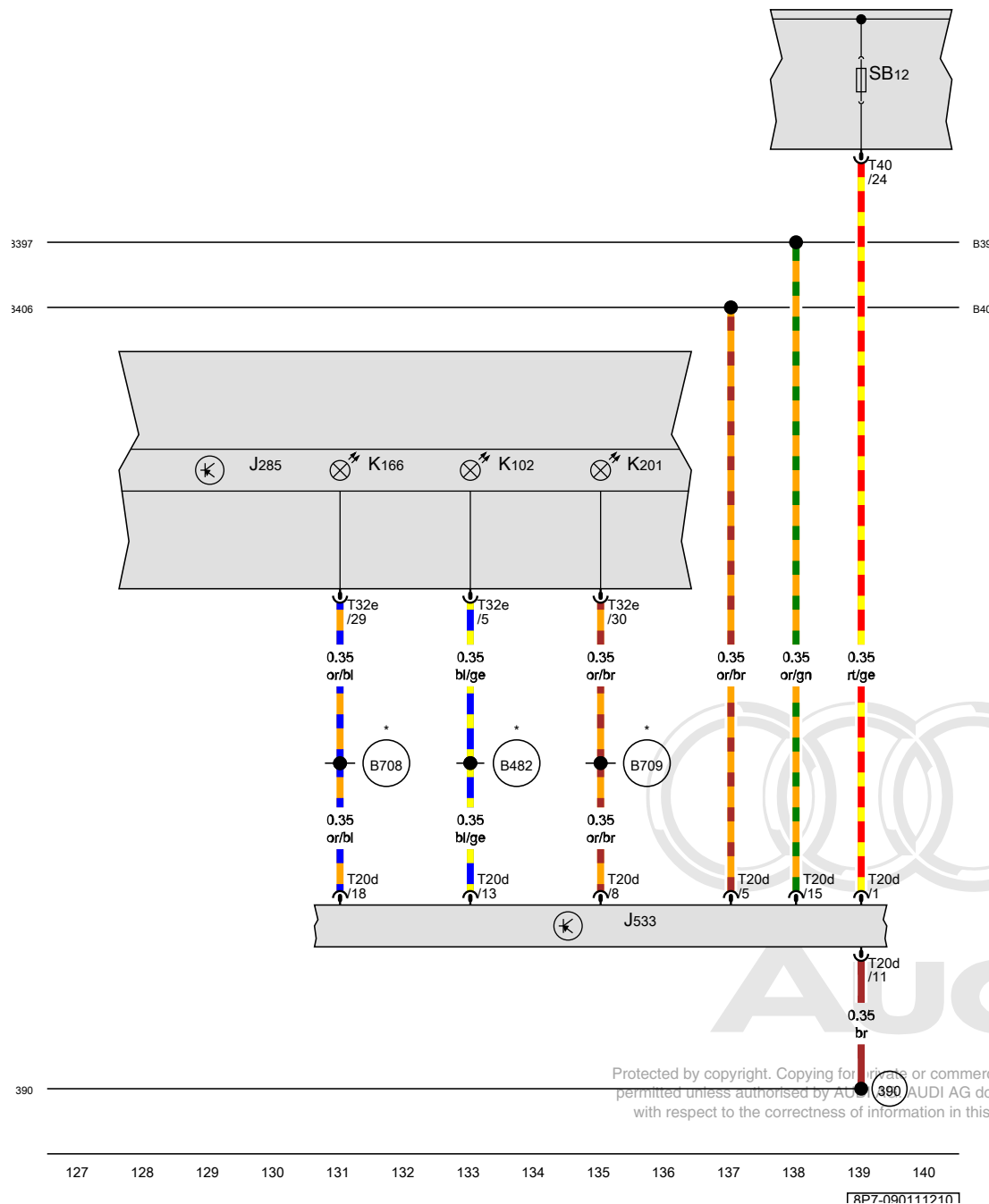


Parking brake contact switch, Storage compartment illumination bulb

- F321 Parking brake contact switch
- J519 Onboard supply control unit
- L120 Storage compartment illumination bulb
- T52a 52-pin connector
- T52c 52-pin connector

- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* Gradually discontinued



Control unit in dash panel insert, Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K102 Rear lid closed warning lamp,
- K166 Door open warning lamp
- K201 Fuel tank flap lock warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32e 32-pin connector
- T40 40-pin connector

- 390 Earth connection 25, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * Gradually discontinued

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Driver side central locking lock unit

- F2 Driver door contact switch
- F133 Front right central locking actuator
- F220 Driver side central locking lock unit
- F241 Driver side contact switch in lock cylinder
- J386 Driver door control unit
- T20f 20-pin connector
- V56 Driver door central locking motor
- V161 Driver door central locking deadlock function motor
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness

- B406 Connection 1 (convenience CAN bus, low), in main wiring harness

*2 Gradually discontinued gradual introduction

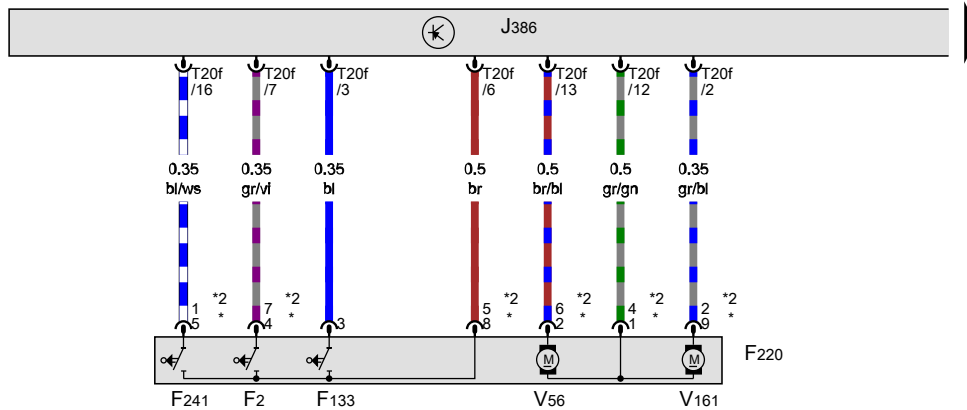
3397

B397

3406

B406

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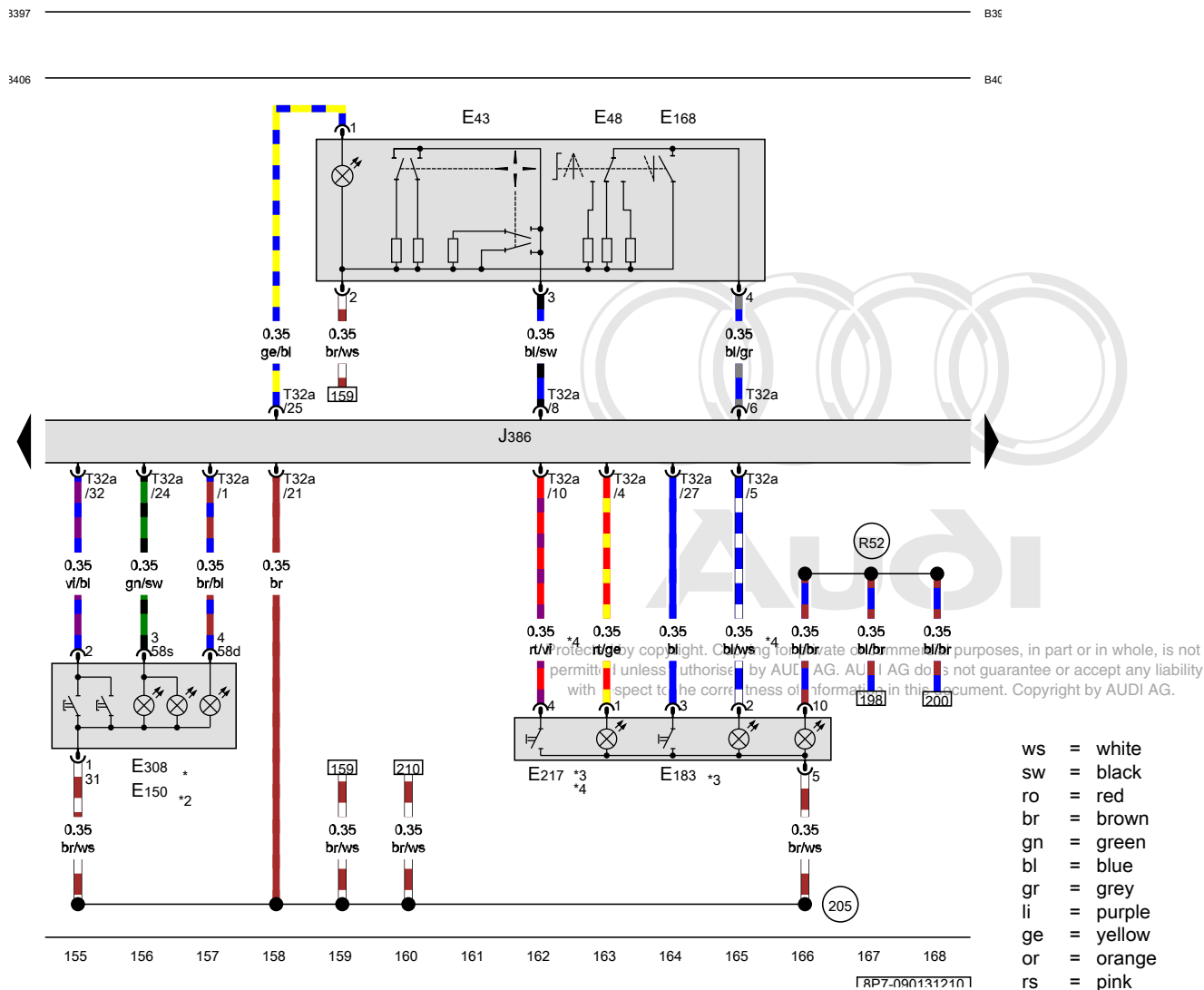
141 142 143 144 145 146 147 148 149 150 151 152 153 154

7AP7-090121210

Mirror adjustment switch, Adjustment switch for mirror with fold-in feature, Alarm system off switch, Driver side interior locking button for central locking system

- E43 Mirror adjustment switch
- E48 Mirror adjustment changeover switch
- E150 Driver side interior locking switch
- E168 Adjustment switch for mirror with fold-in feature
- E183 Interior monitoring switch
- E217 Alarm system off switch
- E308 Driver side interior locking button for central locking system
- J386 Driver door control unit
- T32a 32-pin connector

- (205) Earth connection, in driver door wiring harness
- (B397) Connection 1 (convenience CAN bus, high), in main wiring harness
- (B406) Connection 1 (convenience CAN bus, low), in main wiring harness
- (R52) Connection (58s), in driver side door wiring harness
- * gradual introduction
- *2 Gradually discontinued
- *3 Only models with interior monitor
- *4 Up to April 2010



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Driver door opener illumination bulb, Driver side door warning lamp, Front right entry light

- J386 Driver door control unit
- L108 Driver door opener illumination bulb
- T20f 20-pin connector
- T32a 32-pin connector
- W30 Driver side door warning lamp
- W32 Front right entry light

B397 Connection 1 (convenience CAN bus, high), in main wiring harness

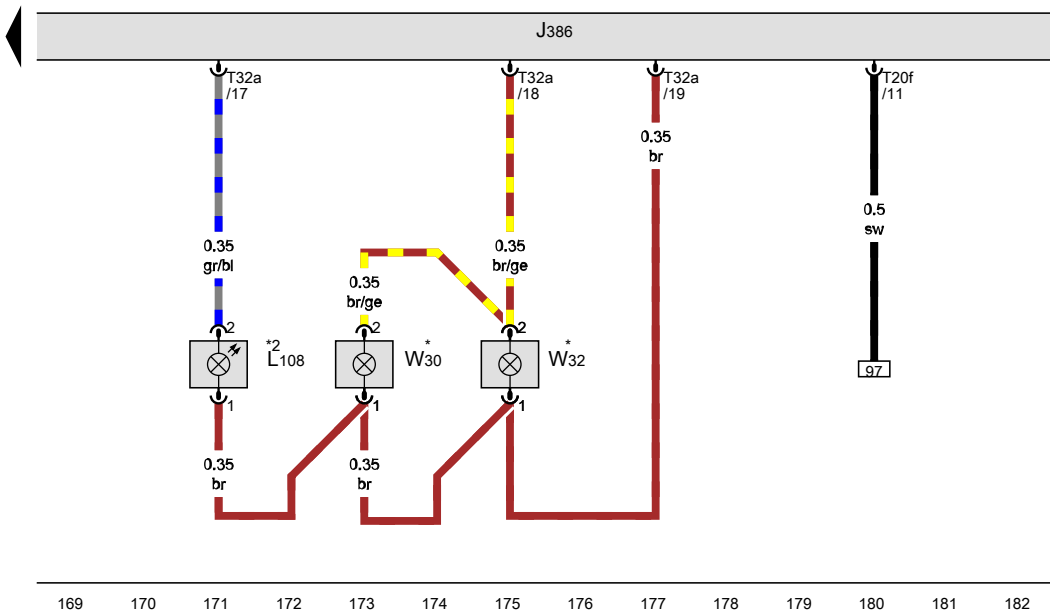
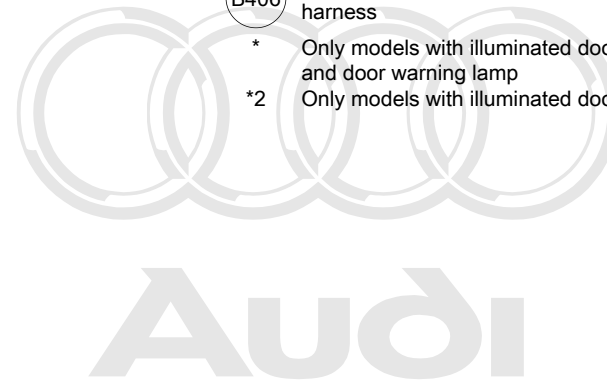
B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* Only models with illuminated door opener, entry warning lamp and door warning lamp

*2 Only models with illuminated door opener on driver side

3397 _____ B397

3406 _____ B406



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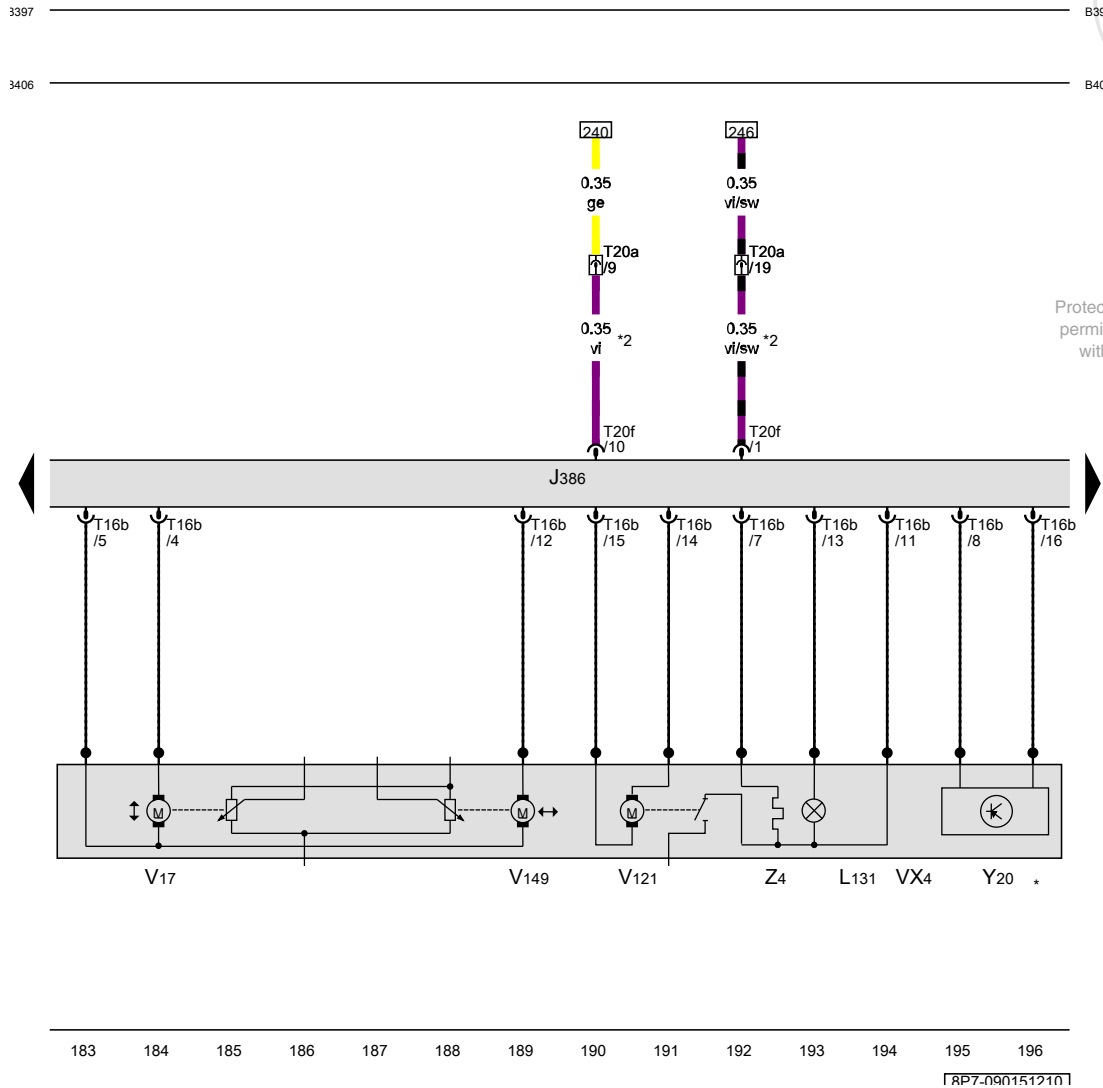
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18P7-0901412101



Driver side exterior mirror

- J386 Driver door control unit
- L131 Driver side turn signal repeater bulb
- T16b 16-pin connector
- T20a 20-pin connector, on lower section of right A-pillar
- T20f 20-pin connector
- VX4 Driver side exterior mirror
- V17 Driver side mirror adjustment motor
- V121 Driver side fold-in mirror motor
- V149 Driver side mirror adjustment motor
- Y20 Driver side automatic anti-dazzle exterior mirror
- Z4 Heated exterior mirror on driver side
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * Only models with automatic anti-dazzle exterior mirror
- *2 Only models with automatic anti-dazzle interior mirror



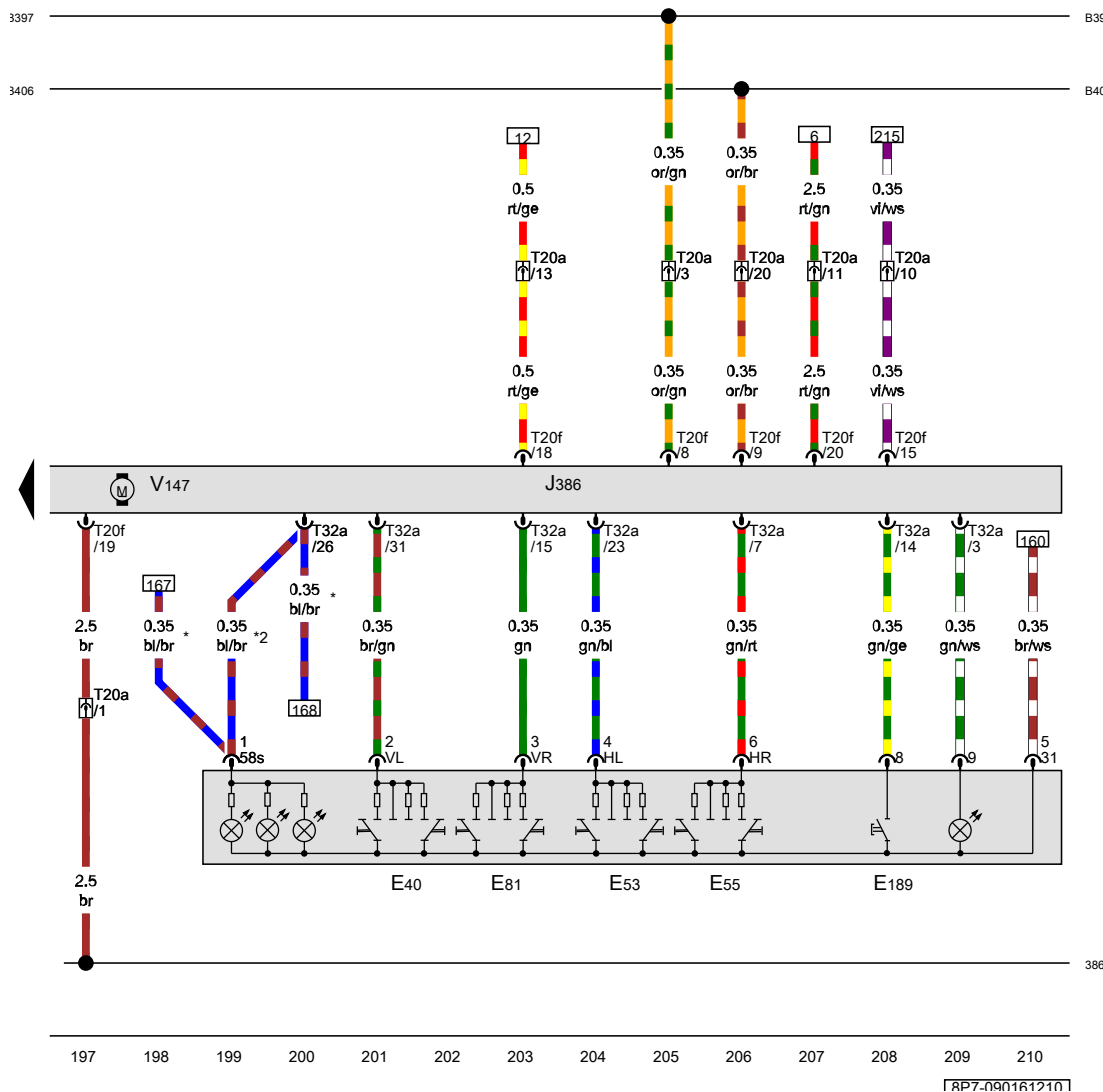
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Central switch for window regulators in driver door, Driver side window regulator motor

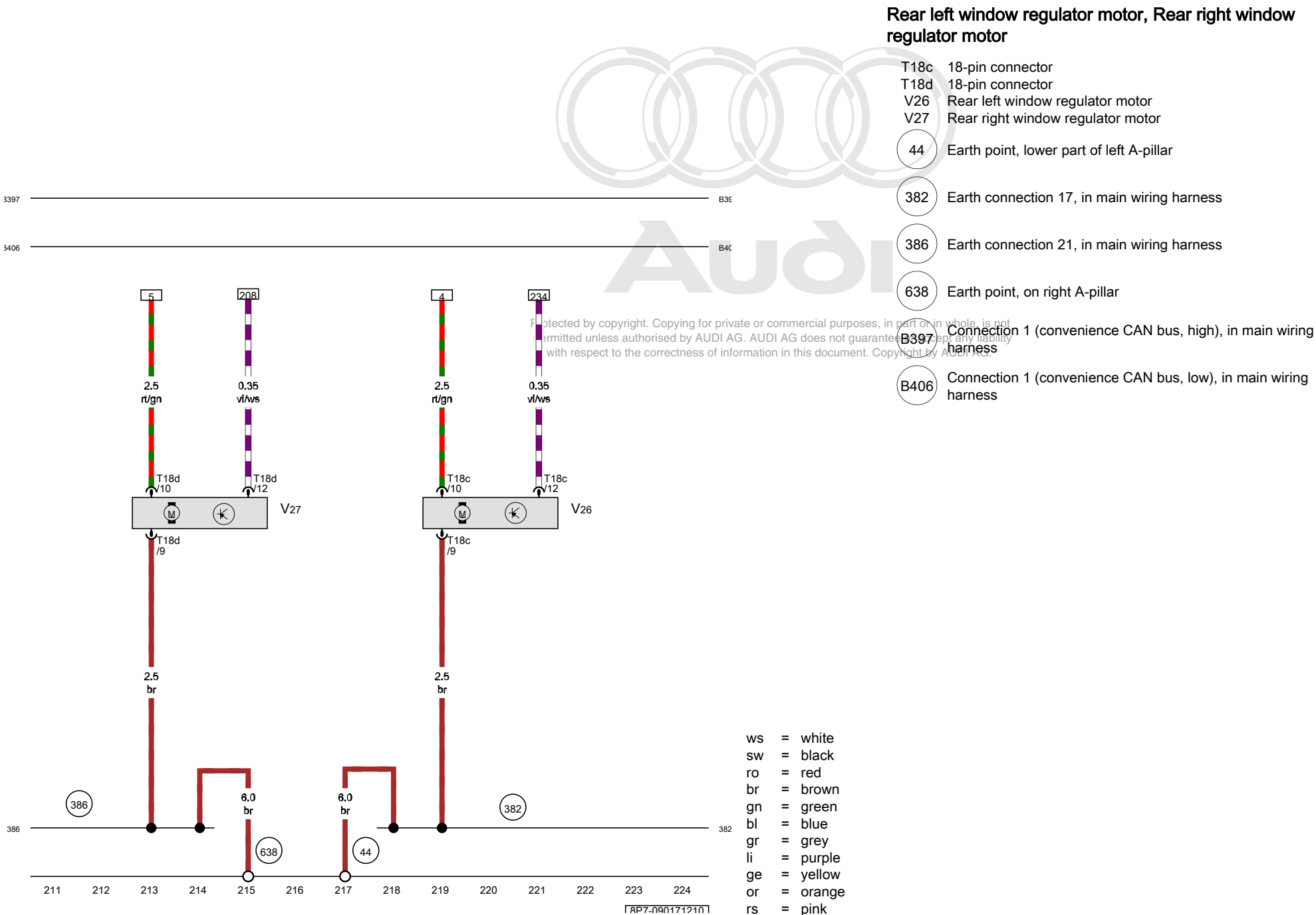
- E40 Front left window regulator switch
- E53 Rear left window regulator switch, in driver door
- E55 Rear right window regulator switch, in driver door
- E81 Front right window regulator switch in driver door
- E189 Central switch for window regulators in driver door
- J386 Driver door control unit
- T20a 20-pin connector, on lower section of right A-pillar
- T20f 20-pin connector
- T32a 32-pin connector
- V147 Driver side window regulator motor

- 386 Earth connection 21, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * Only models with interior monitor
- *2 Only models with no interior monitor



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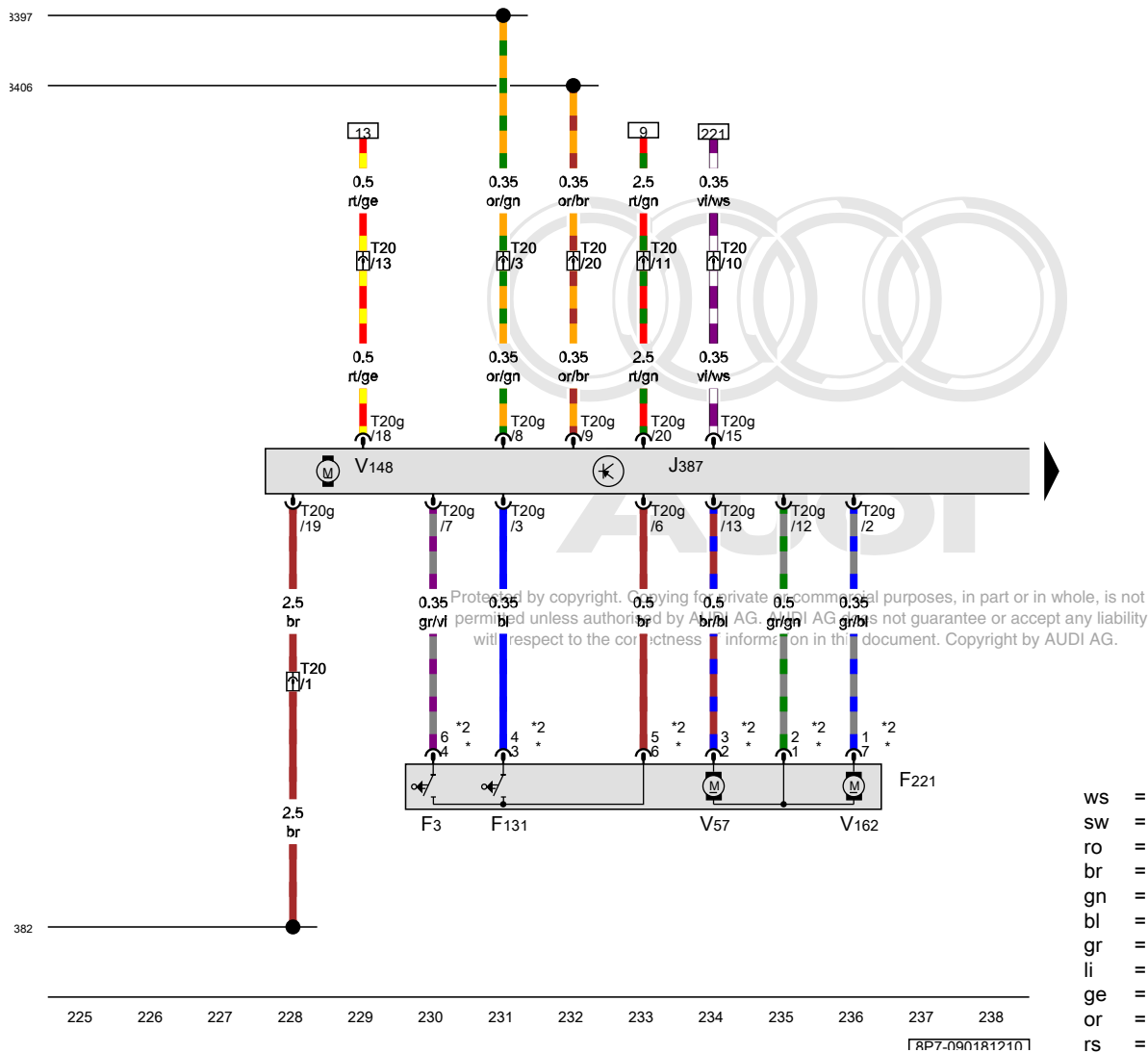
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Front passenger side central locking lock unit, Front passenger side window regulator motor

- F3 Front passenger door contact switch
- F131 Front left central locking actuator
- F221 Front passenger side central locking lock unit
- J387 Front passenger door control unit
- T20 20-pin connector, on lower section of left A-pillar
- T20g 20-pin connector
- V57 Front passenger seat central locking motor
- V148 Front passenger side window regulator motor
- V162 Front passenger door central locking deadlock function motor

- 382 Earth connection 17, in main wiring harness
- B397 Connection 1 (convenience CAN bus, high), in main wiring harness
- B406 Connection 1 (convenience CAN bus, low), in main wiring harness
- * Gradually discontinued
- *2 gradual introduction



Front passenger side exterior mirror

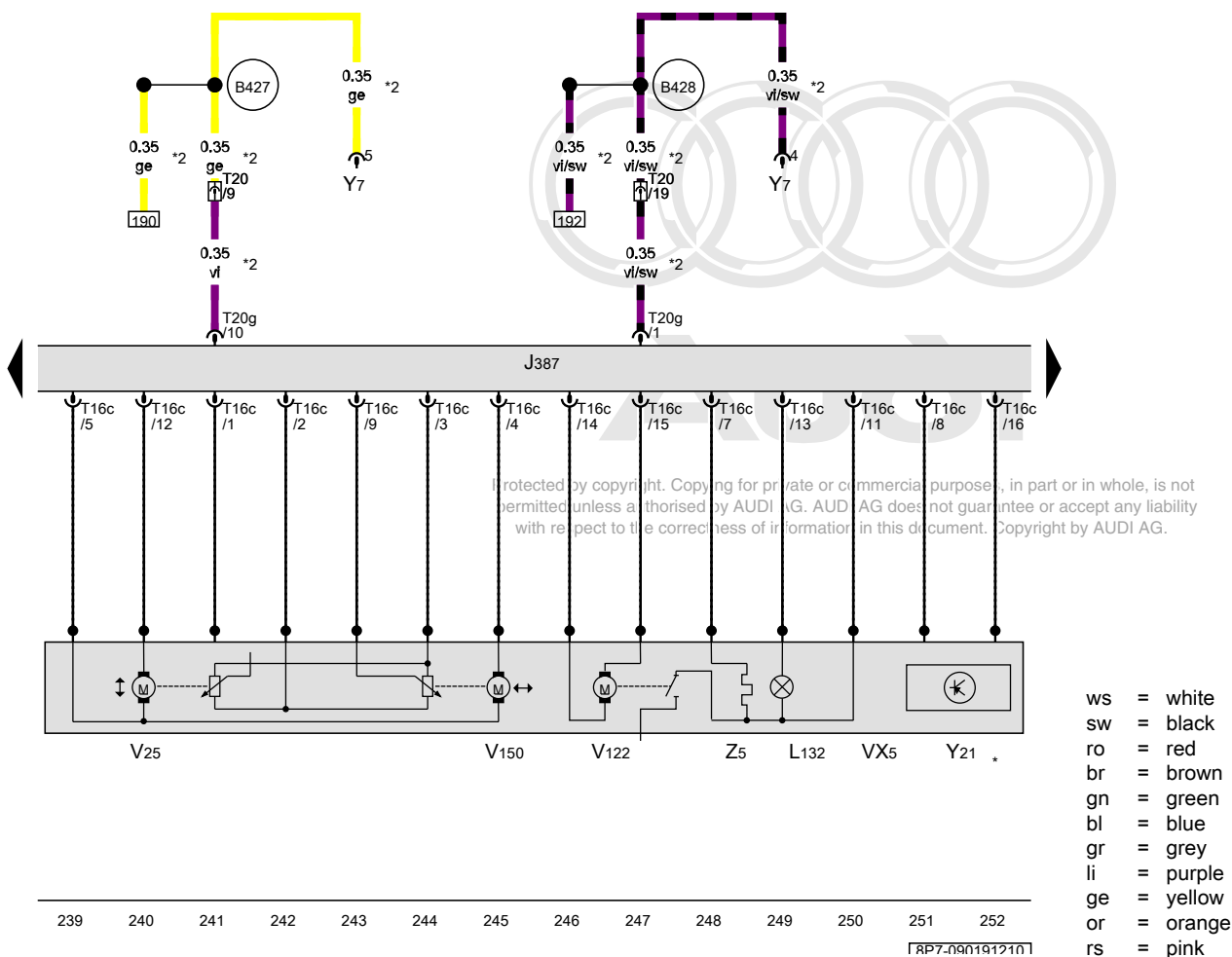
- J387 Front passenger door control unit
- L132 Front passenger side turn signal repeater bulb
- T16c 16-pin connector
- T20 20-pin connector, on lower section of left A-pillar
- T20g 20-pin connector
- VX5 Front passenger side exterior mirror
- V25 Front passenger side mirror adjustment motor
- V122 Front passenger side fold-in mirror motor
- V150 Front passenger side mirror adjustment motor
- Y7 Automatic anti-dazzle interior mirror
- Y21 Front passenger side automatic anti-dazzle exterior mirror
- Z5 Heated exterior mirror on front passenger side

B427 Connection 1 (mirror signal), in main wiring harness

B428 Connection 2 (mirror signal), in main wiring harness

* Only models with automatic anti-dazzle exterior mirror

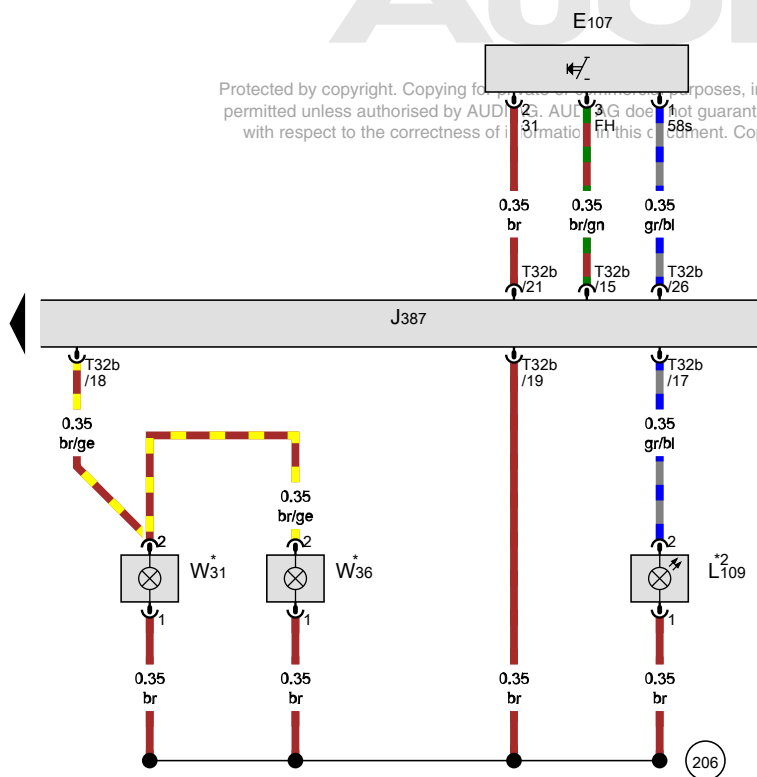
*2 Only models with automatic anti-dazzle interior mirror





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Window regulator switch in front passenger door, Front passenger door opener illumination bulb, Front left entry light, Front passenger side door warning lamp

- E107 Window regulator switch in front passenger door
- J387 Front passenger door control unit
- L109 Front passenger door opener illumination bulb
- T32b 32-pin connector
- W31 Front left entry light
- W36 Front passenger side door warning lamp

206 Earth connection, in front passenger door wiring harness

- * Only models with illuminated door opener, entry warning lamp and door warning lamp
- *2 Only models with illuminated door opener on front passenger side

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253 254 255 256 257 258 259 260 261 262 263 264 265 266

1AP7-0902012101

1.4l petrol engine , CAXC

From February 2011



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Ignition/starter switch, Cruise control system switch

- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

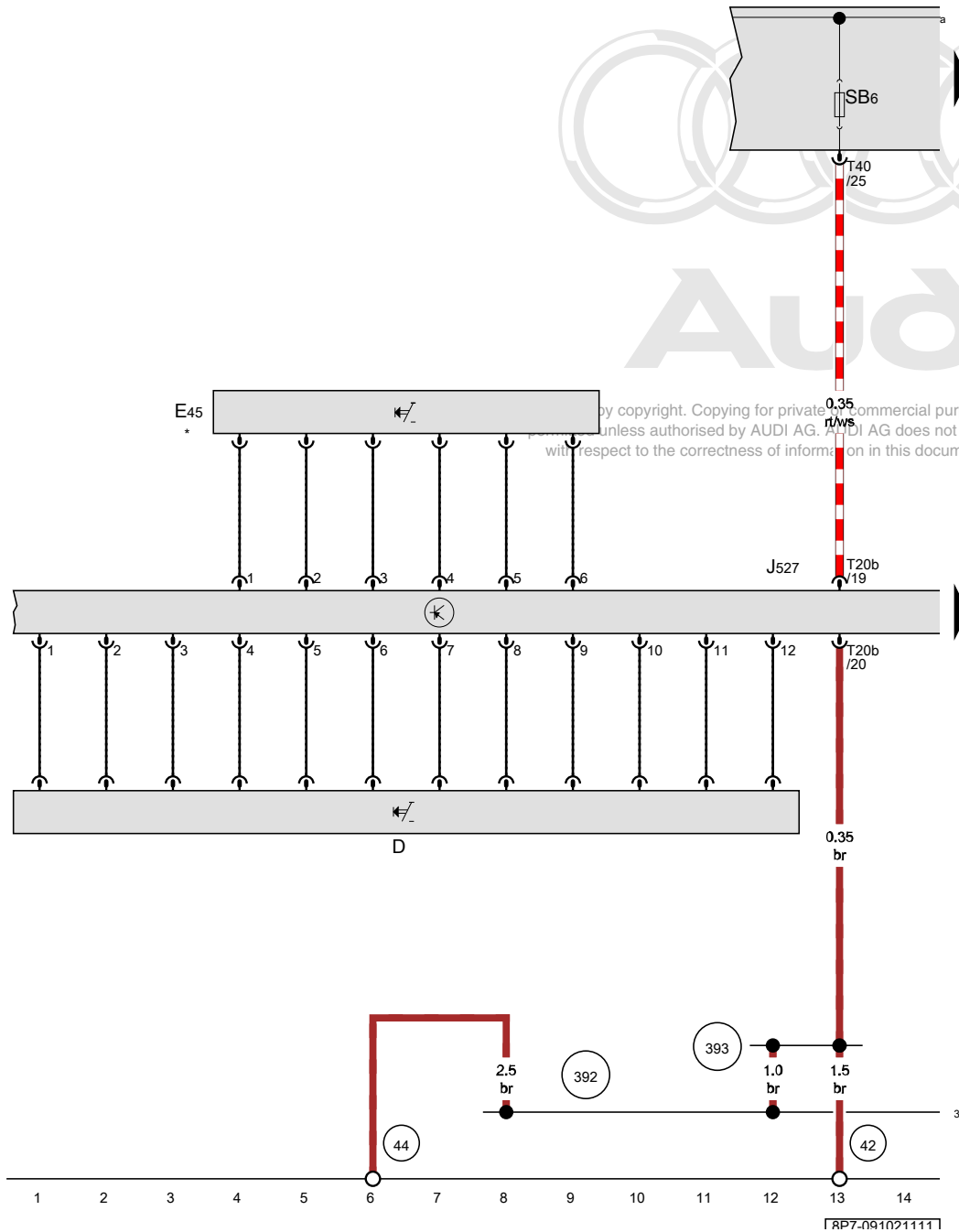
42 Earth point, next to steering column

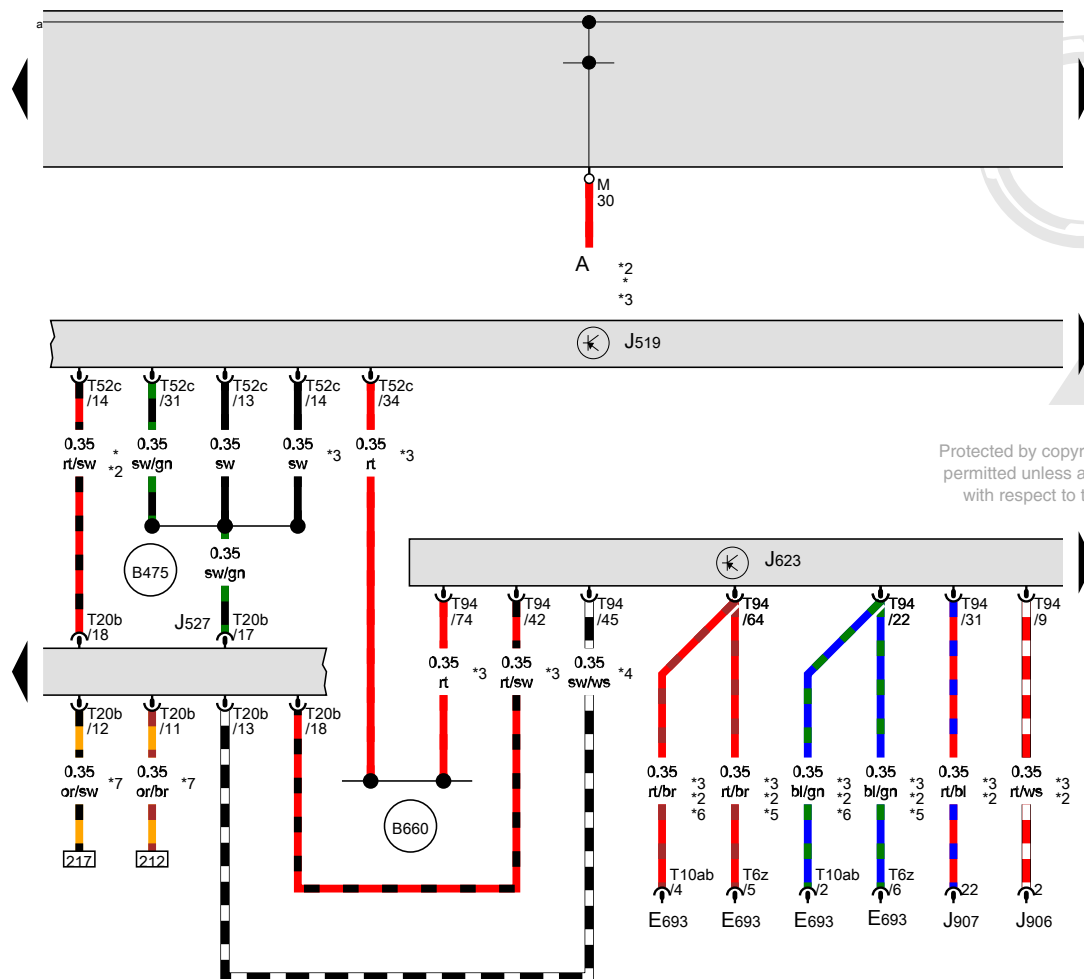
44 Earth point, lower part of left A-pillar

392 Earth connection 27, in main wiring harness

393 Earth connection 28, in main wiring harness

* Only models with cruise control system (CCS)





Onboard supply control unit, Engine control unit

- A Battery
- E693 Start/Stop operation button
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J906 Starter relay 1
- J907 Starter relay 2
- T6z 6-pin connector
- T10ab 10-pin connector
- T20b 20-pin connector
- T52c 52-pin connector
- T94 94-pin connector

392 Earth connection 27, in main wiring harness

B475 Connection 11, in main wiring harness

B660 Connection (diagnosis terminal 50), in main wiring harness

- * Only models with no start/stop system
- *2 see applicable current flow diagram for battery in engine compartment
- *3 Only models with start/stop system
- *4 Only models with cruise control system (CCS)
- *5 Gradually discontinued
- *6 gradual introduction
- *7 If fitted

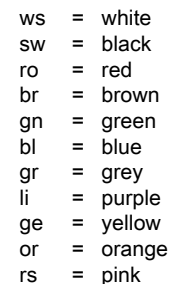
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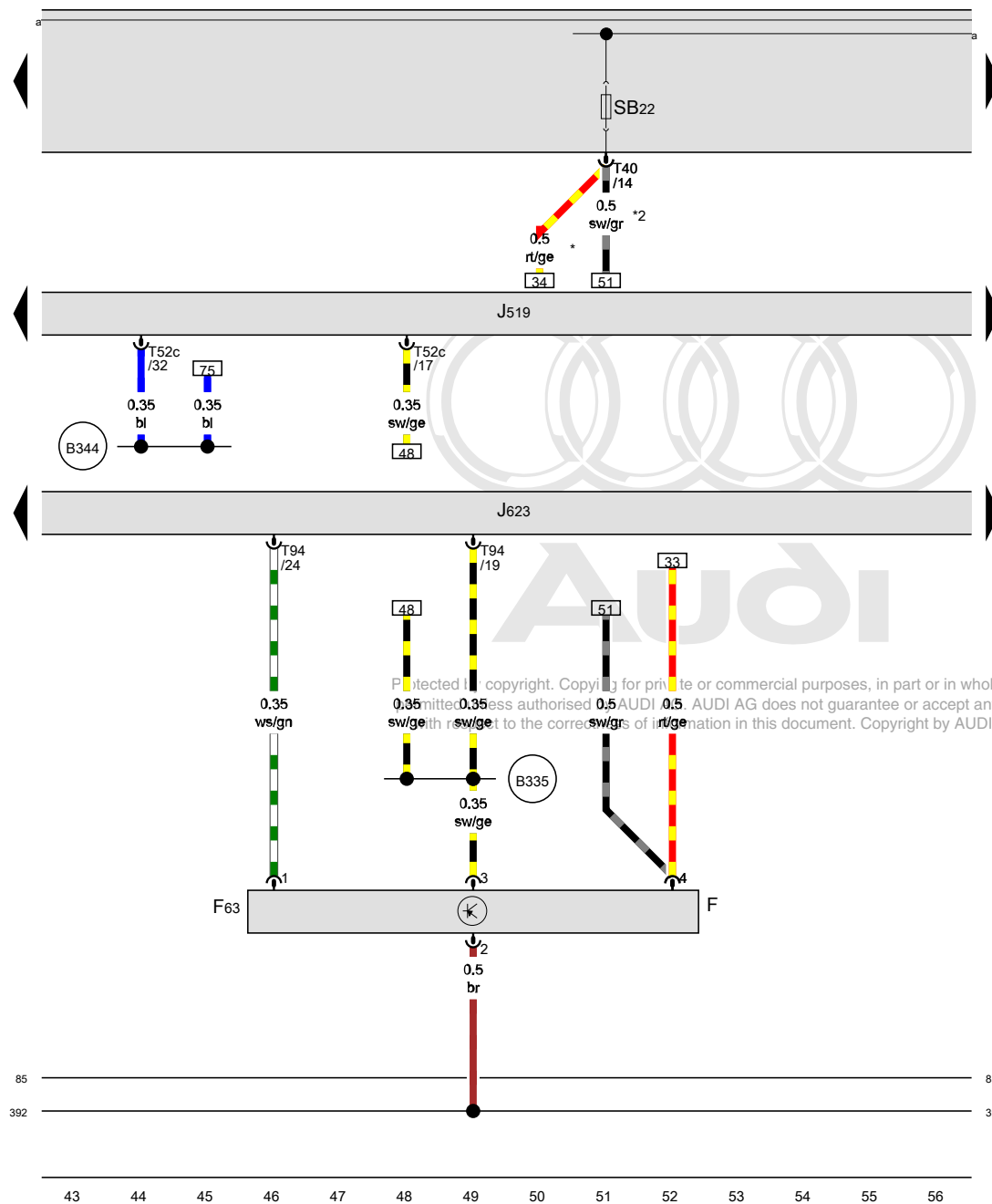
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- * Only models with manual gearbox
- *2 Only models with start/stop system
- *3 Only models with no start/stop system
- *4 Only models with automatic gearbox



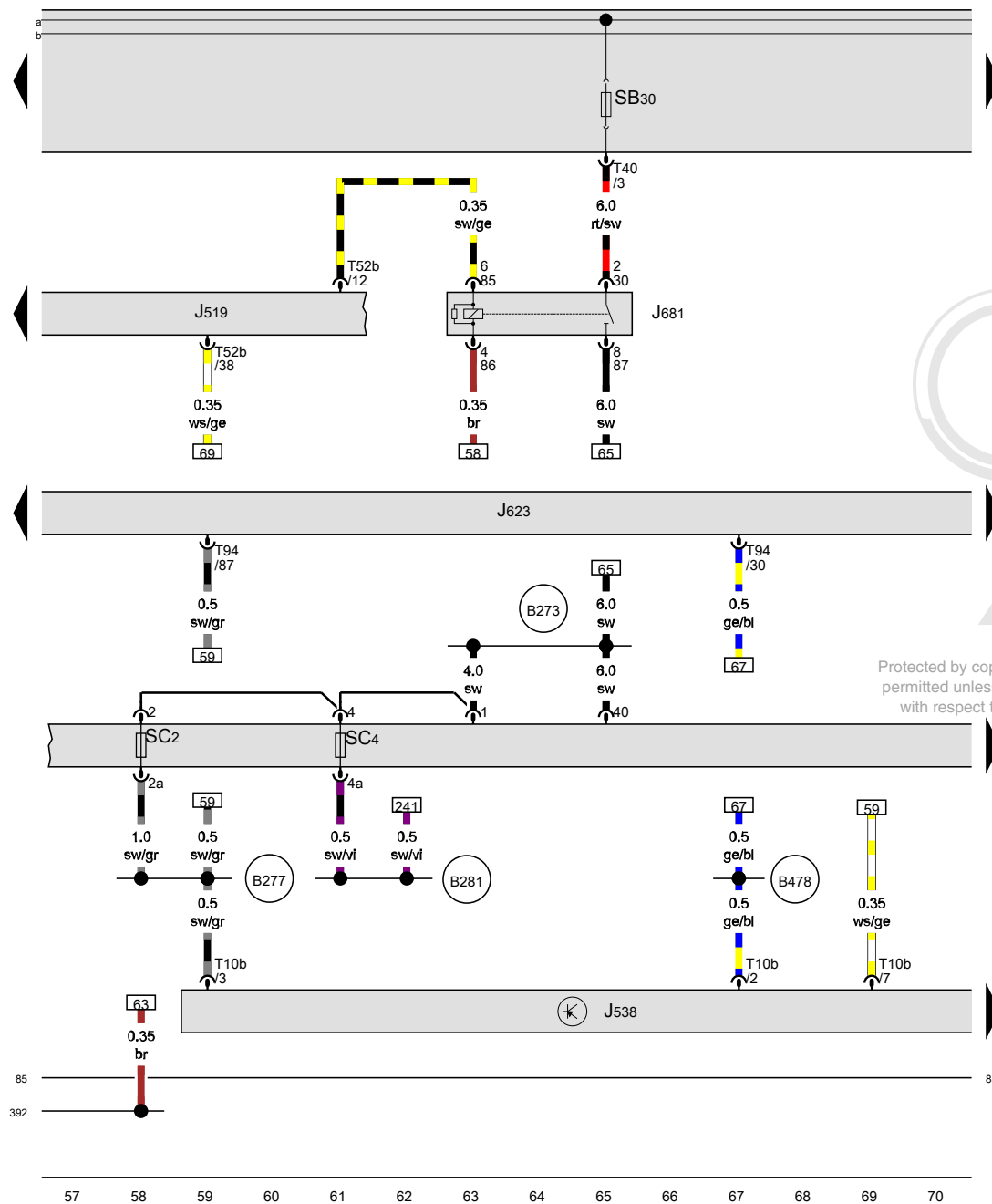
Brake light switch, Brake pedal switch, Onboard supply control unit, Engine control unit

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B335 Connection 1 (54), in main wiring harness
- B344 Connection 1 (61), in main wiring harness

- * Only models with manual gearbox
- *2 Only models with automatic gearbox

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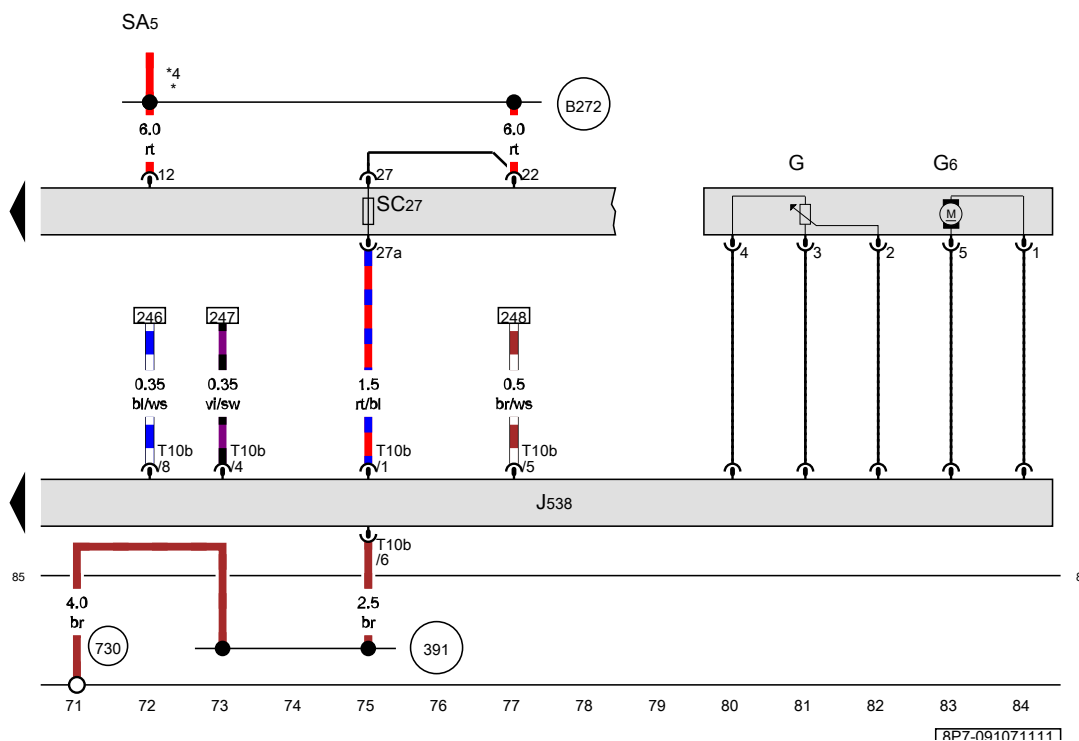
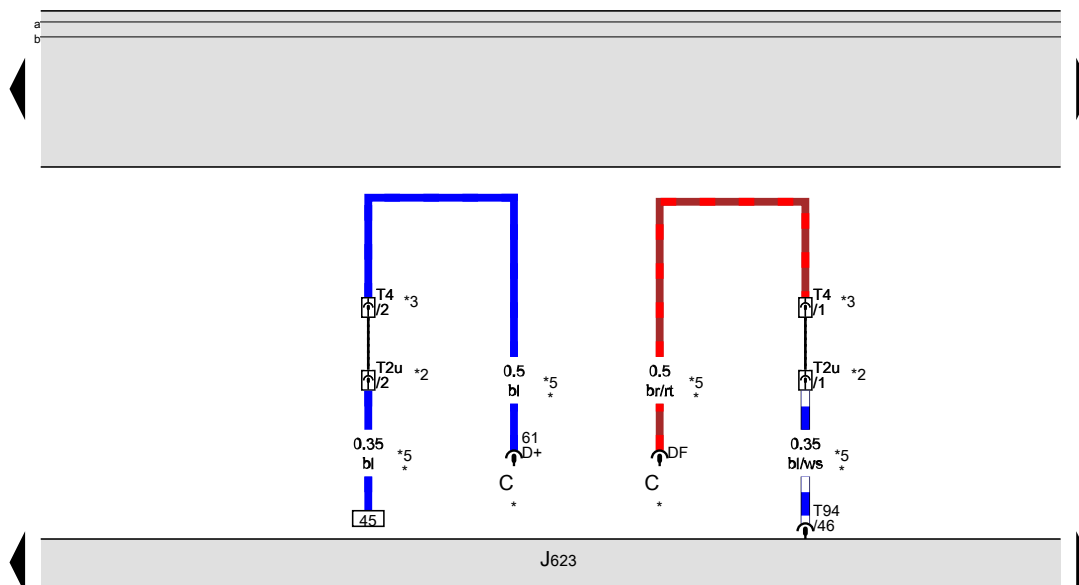
Onboard supply control unit, Fuel pump control unit, Engine control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J538 Fuel pump control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- T10b 10-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B281 Positive connection 5 (15a) in main wiring harness
- B478 Connection 14, in main wiring harness

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Fuel gauge sender, Fuel pump control unit, Engine control unit

- | | |
|------|--|
| C | Alternator |
| G | Fuel gauge sender |
| G6 | Fuel system pressurisation pump |
| J538 | Fuel pump control unit |
| J623 | Engine control unit |
| SA5 | Fuse 5 in fuse holder A |
| SC27 | Fuse 27 on fuse holder C |
| T2u | 2-pin connector, on left in engine compartment |
| T4 | 4-pin connector, on left in engine compartment |
| T10b | 10-pin connector |
| T94 | 94-pin connector |

85 Earth connection 1, in engine compartment wiring harness

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391 Earth connection 26, in main wiring harness

(730) Earth point 1, on right rear wheel housing

(B272) Positive connection (30), in main wiring harness

* see applicable current flow diagram for battery in engine compartment

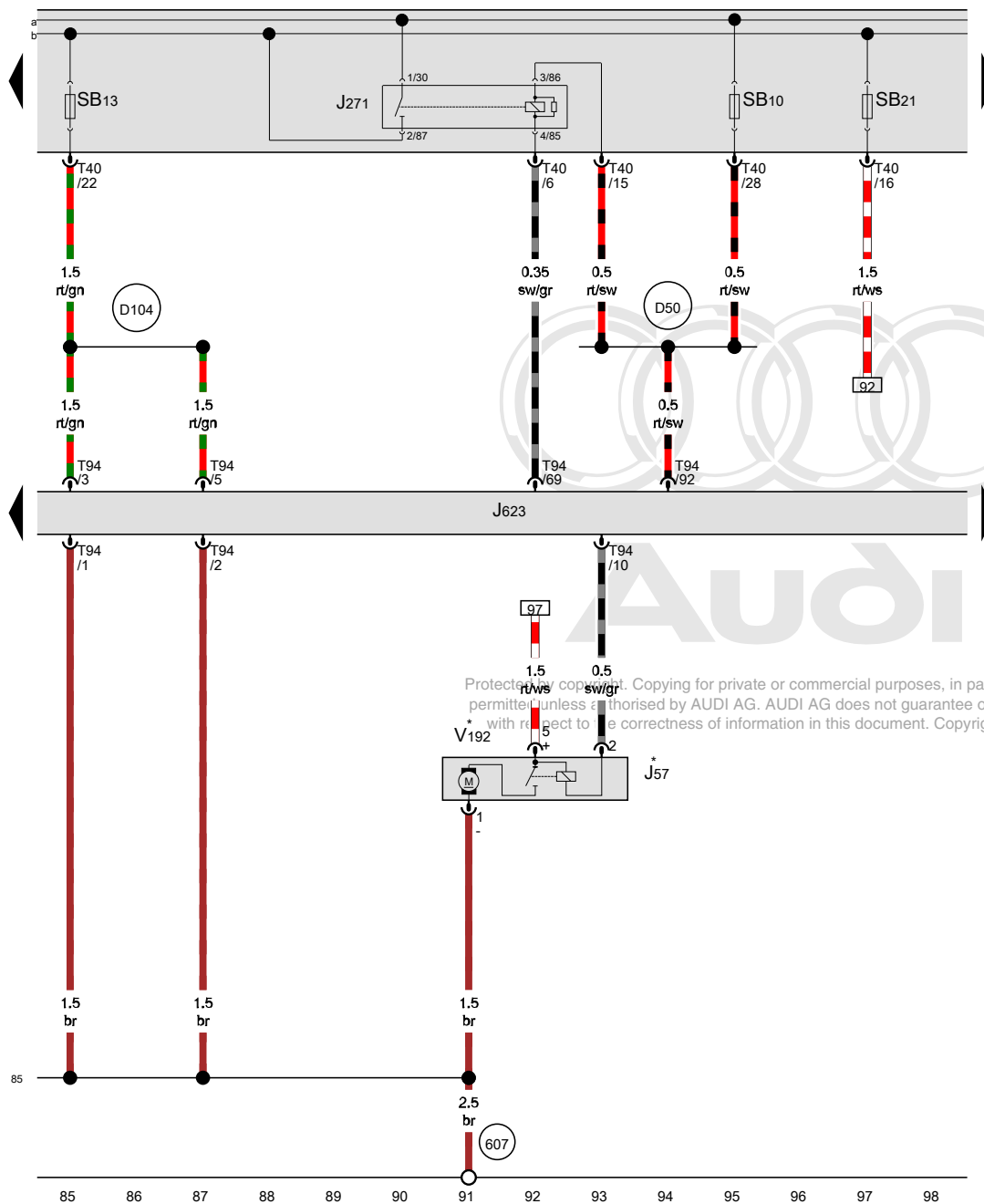
*2 Only models with no air conditioning system

*3 Only models with air conditioning system

*4 Cross section depends on equipment

*5 Only models with no start/stop system

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Main relay, Engine control unit, Vacuum pump for brakes

- J57 Vacuum pump relay
- J271 Main relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB21 Fuse 21 on fuse holder B
- T40 40-pin connector
- T94 94-pin connector
- V192 Vacuum pump for brakes

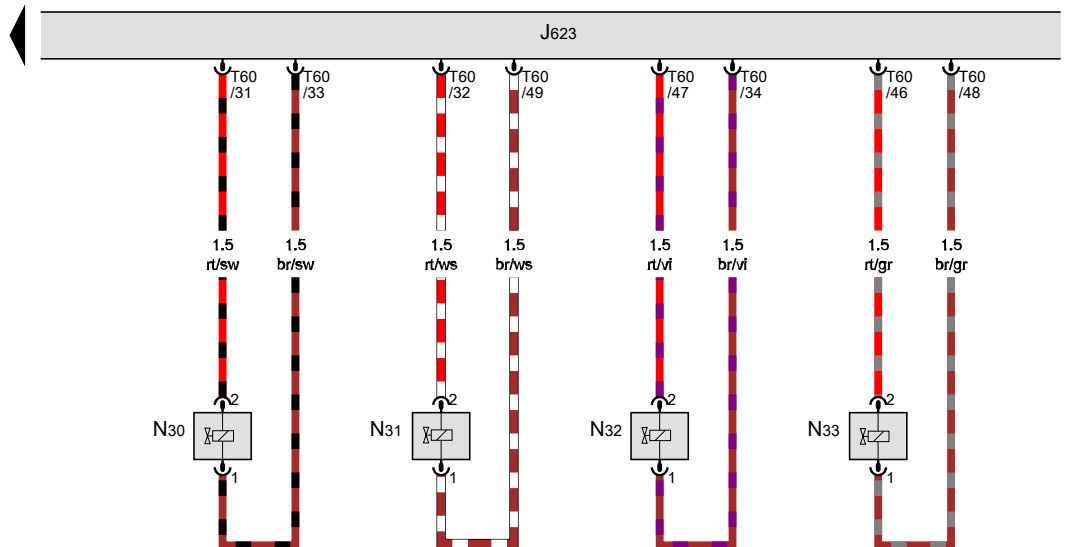
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D50 Positive connection (30), in engine compartment wiring harness
- D104 Positive connection 2 (30a), in engine compartment wiring harness
- * Only models with automatic gearbox

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Engine control unit, Injector, cylinder 1, Injector, cylinder 2,
Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit
N30 Injector, cylinder 1
N31 Injector, cylinder 2
N32 Injector, cylinder 3
N33 Injector, cylinder 4
T60 60-pin connector

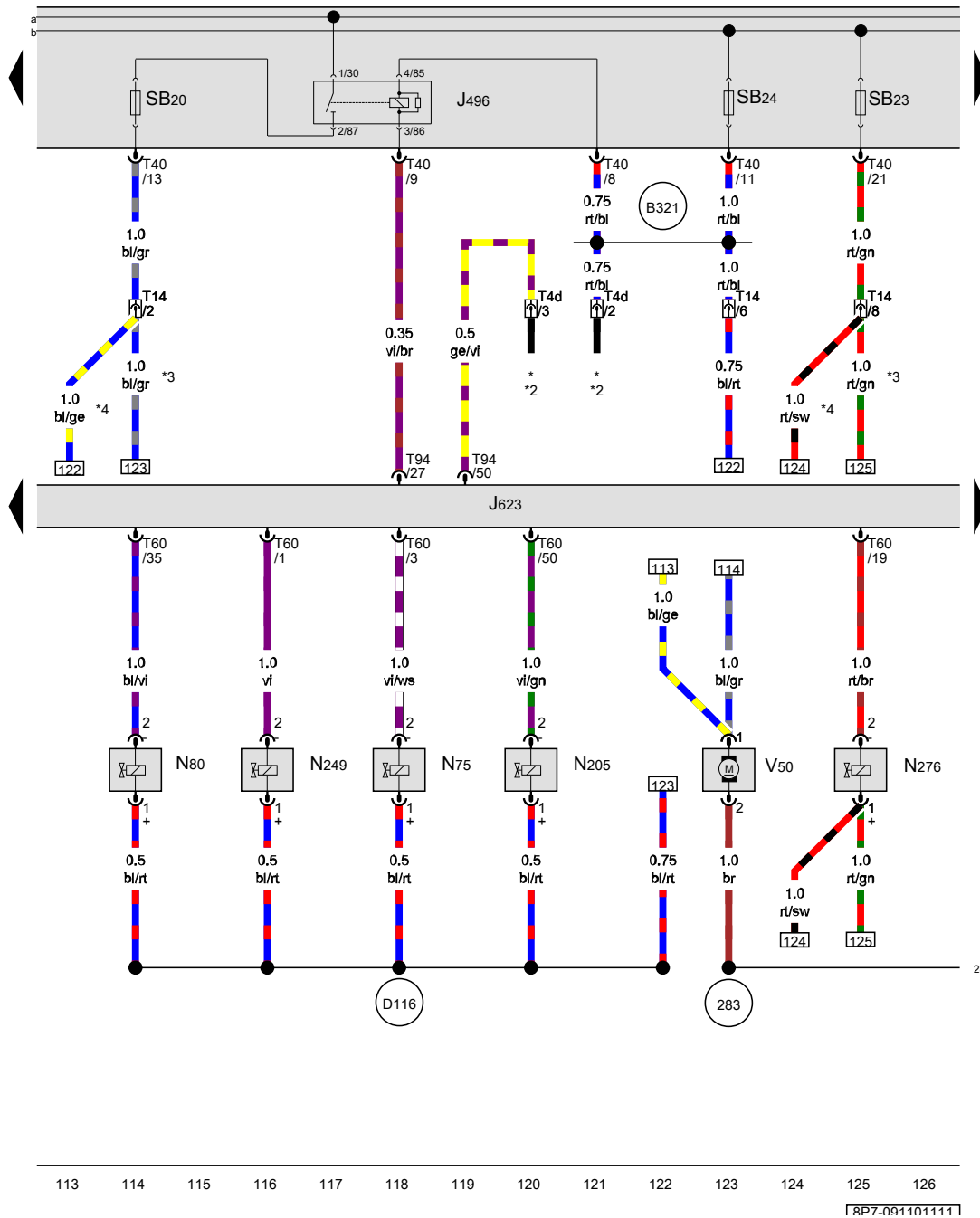


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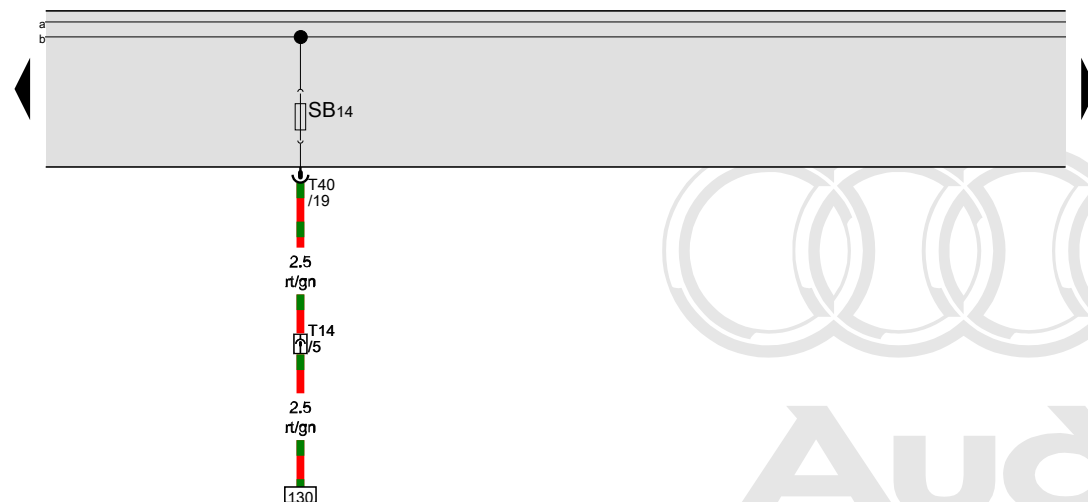
Additional coolant pump relay, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve, Fuel pressure regulating valve, Coolant circulation pump

- J496 Additional coolant pump relay
- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter solenoid valve 1
- N205 Camshaft control valve 1
- N249 Turbocharger air recirculation valve
- N276 Fuel pressure regulating valve
- SB20 Fuse 20 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, near radiator fan
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V50 Coolant circulation pump

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- 283 Earth point 2, engine prewiring harness
- B321 Positive connection 7 (30a) in main wiring harness
- D116 Connection 14 in engine compartment wiring harness
- * see applicable current flow diagram for radiator fan
- *2 Adapter wire
- *3 Gradually discontinued
- *4 gradual introduction

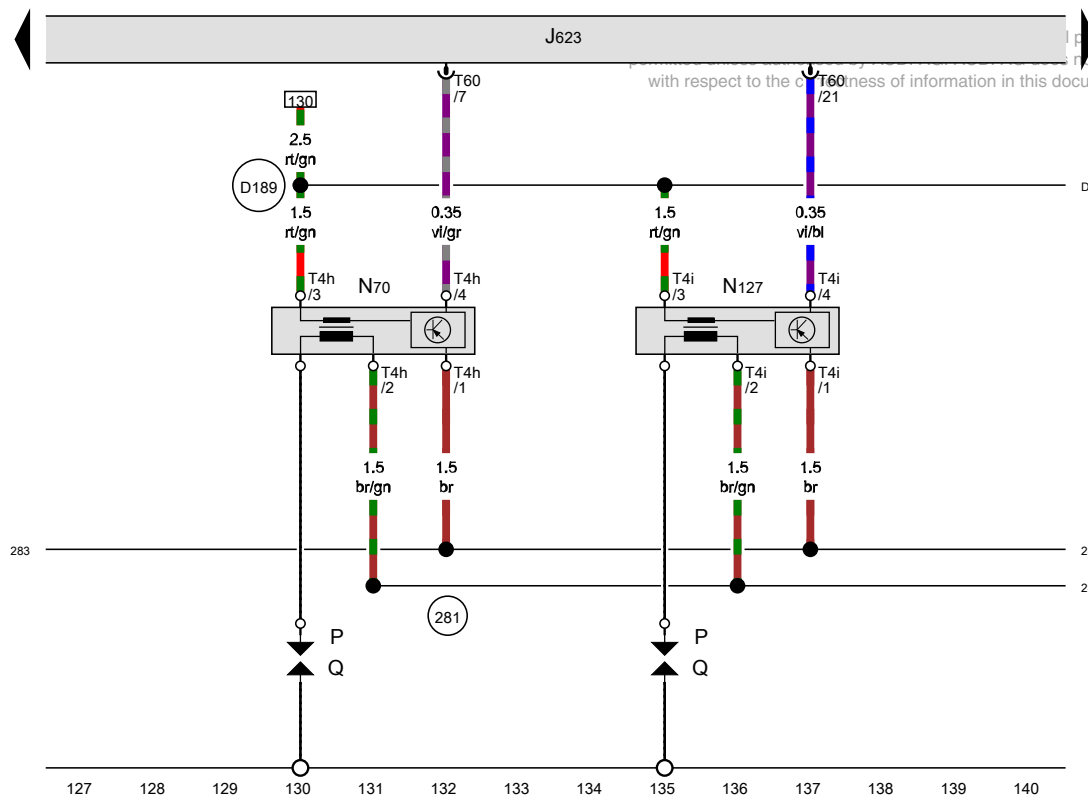
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Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage

- J623 Engine control unit
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- P Spark plug connector
- Q Spark plugs
- SB14 Fuse 14 on fuse holder B
- T4h 4-pin connector
- T4i 4-pin connector
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector

- 281 Earth point 1, engine prewiring harness
- 283 Earth point 2, engine prewiring harness
- D189 Connection (87a) in engine prewiring harness

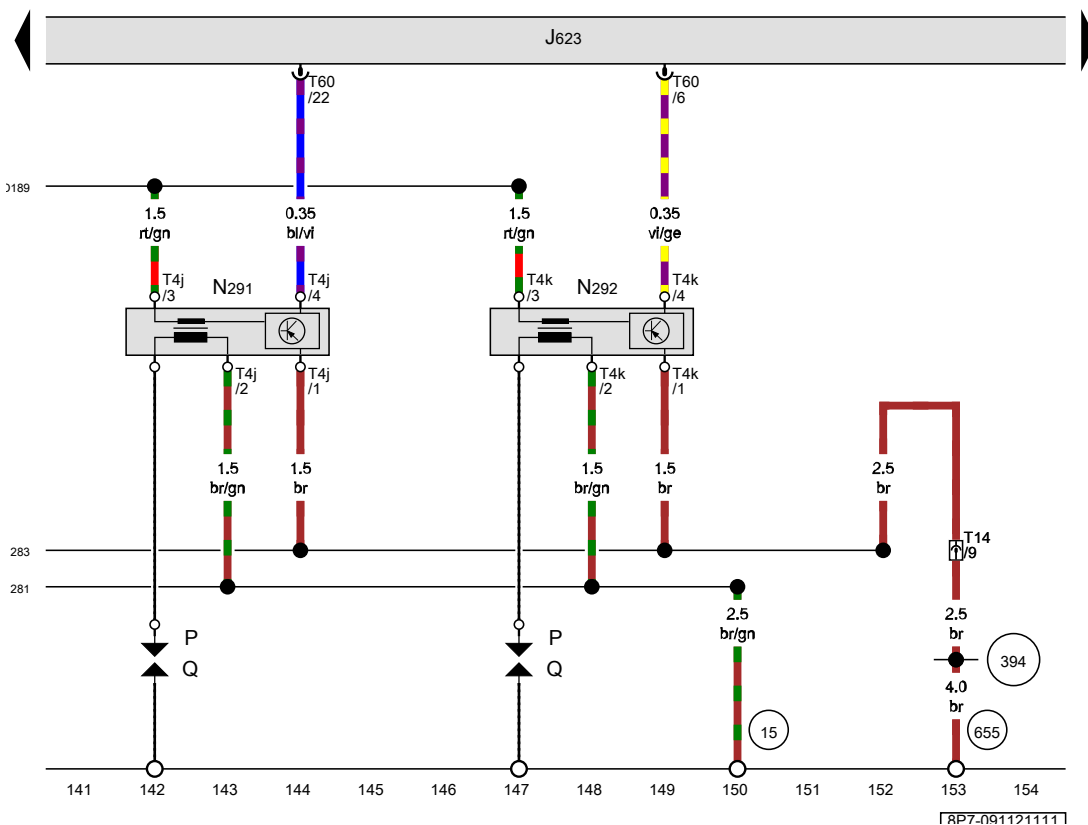


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- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

[AP7-0911111111]



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Engine control unit, Ignition coil 3 with output stage, Ignition coil 4 with output stage

- J623 Engine control unit
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- P Spark plug connector
- Q Spark plugs
- T4j 4-pin connector
- T4k 4-pin connector
- T14 14-pin connector, near front left longitudinal member
- T60 60-pin connector

- 15 Earth point, on cylinder head
- 281 Earth point 1, engine prewiring harness
- 283 Earth point 2, engine prewiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- D189 Connection (87a) in engine prewiring harness



Coolant temperature sender, Accelerator position sender, Radiator outlet coolant temperature sender, Brake servo pressure sensor, Engine control unit

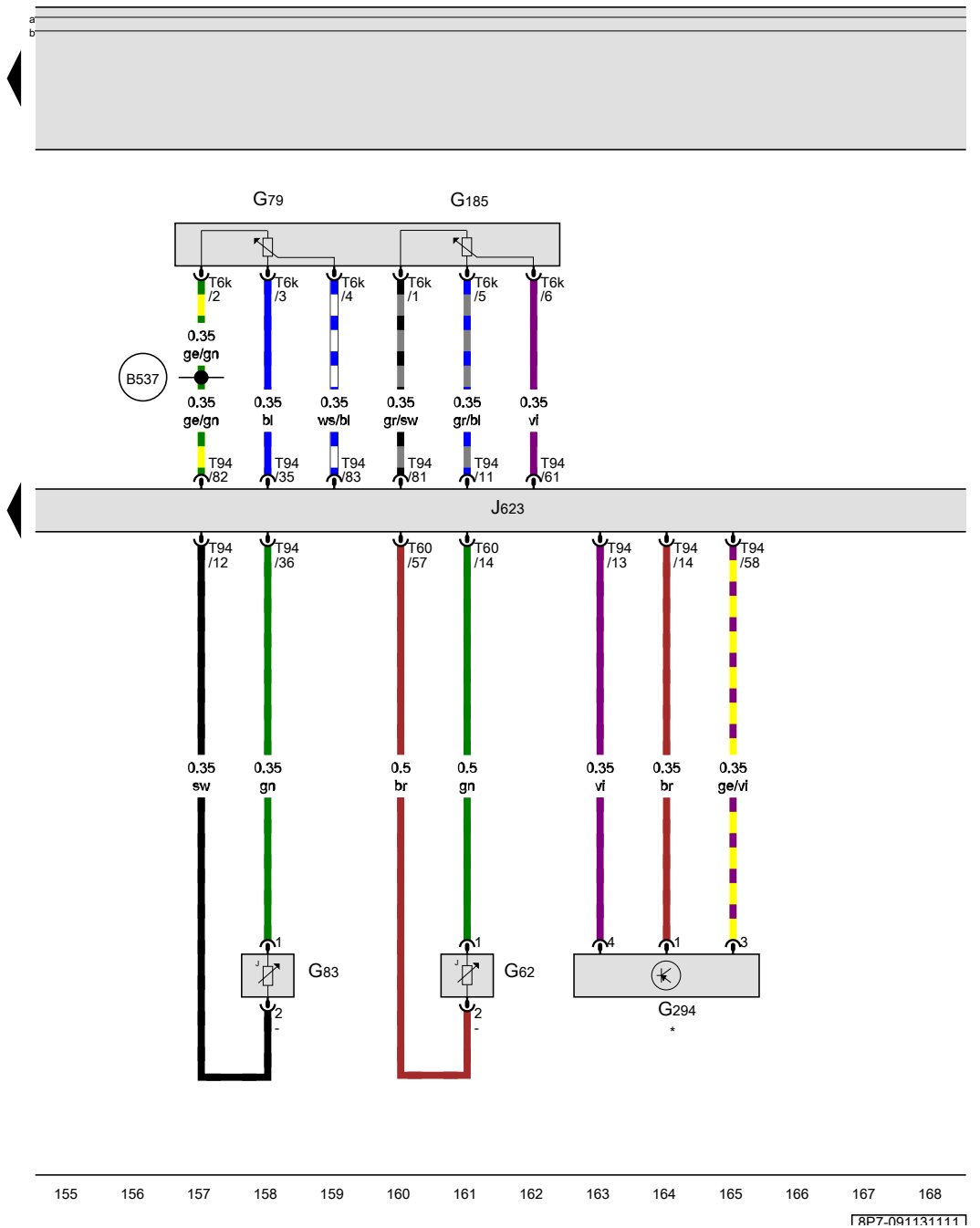
- G62 Coolant temperature sender
- G79 Accelerator position sender
- G83 Radiator outlet coolant temperature sender
- G185 Accelerator position sender 2
- G294 Brake servo pressure sensor
- J623 Engine control unit
- T6k 6-pin connector
- T60 60-pin connector
- T94 94-pin connector

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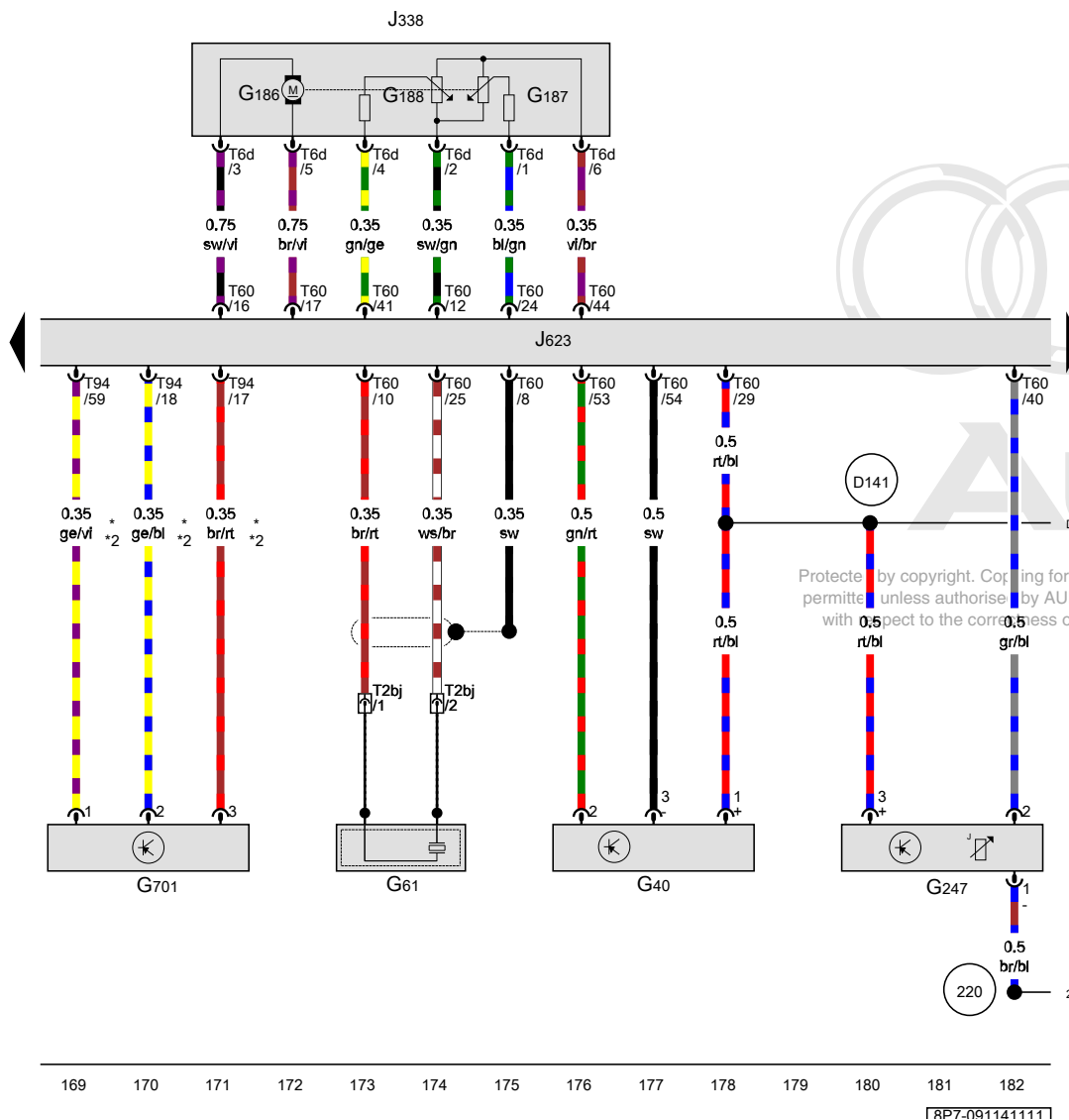
B537 Connection 28 in main wiring harness

* Only models with brake servo pressure sensor

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- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink



RP7-091131111



Hall sender, Knock sensor 1, Gearbox neutral position sender, Throttle valve module, Engine control unit

- G40 Hall sender
- G61 Knock sensor 1
- G186 Throttle valve drive for electric throttle
- G187 Throttle valve drive angle sender 1 for electric throttle
- G188 Throttle valve drive angle sender 2 for electric throttle
- G247 Fuel pressure sender
- G701 Gearbox neutral position sender
- J338 Throttle valve module
- J623 Engine control unit
- T2bj 2-pin connector
- T6d 6-pin connector
- T60 60-pin connector
- T94 94-pin connector

220 Earth connection (sender earth), in engine wiring harness

D141 Connection (5V) in engine prewiring harness

* Only models with stop/start system

*2 Only models with manual gearbox

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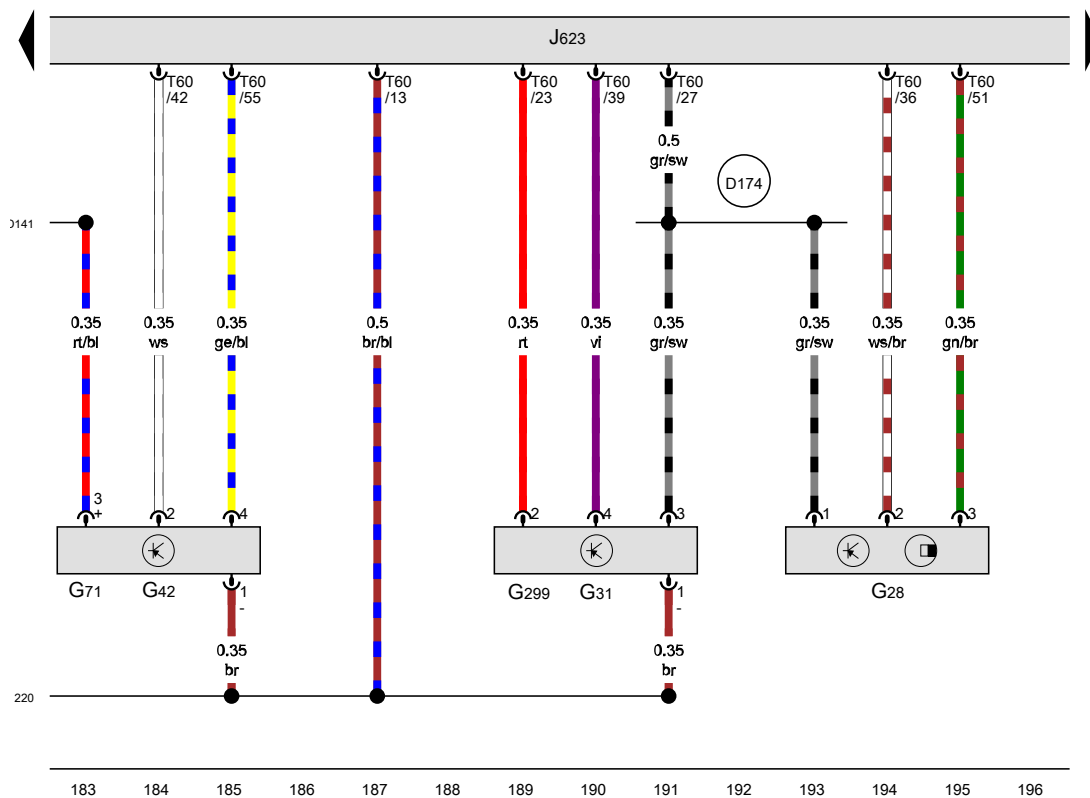
Engine speed sender, Charge pressure sender, Intake air temperature sender, Intake manifold pressure sender, Engine control unit

- G28 Engine speed sender
- G31 Charge pressure sender
- G42 Intake air temperature sender
- G71 Intake manifold pressure sender
- G299 Intake air temperature sender 2
- J623 Engine control unit
- T60 60-pin connector

220 Earth connection (sender earth), in engine wiring harness

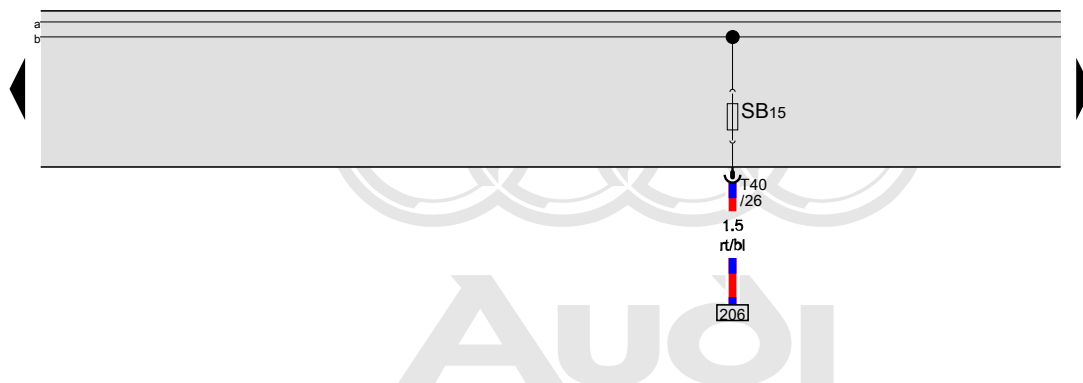
D141 Connection (5V) in engine prewiring harness

D174 Connection 2 (5V) in engine prewiring harness



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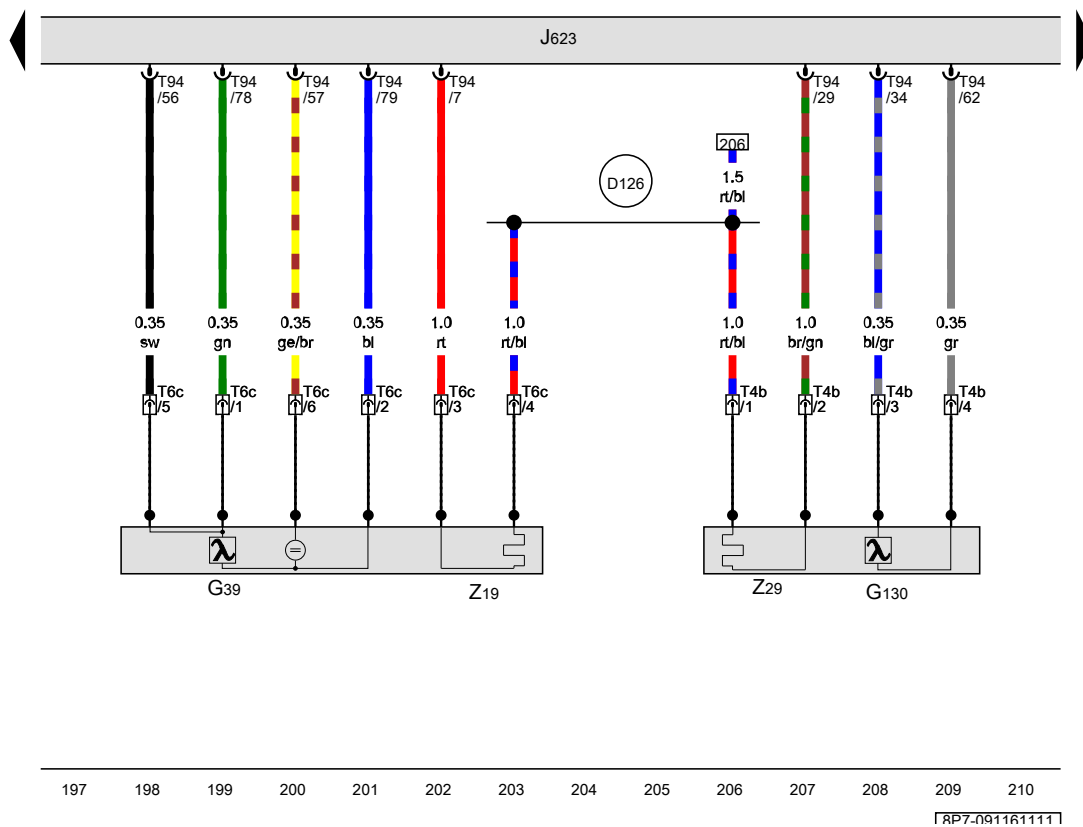
- ws = white
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Lambda probe, Lambda probe after catalytic converter, Engine control unit

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SB15 Fuse 15 on fuse holder B
- T4b 4-pin connector, on Lambda probe after catalytic converter
- T6c 6-pin connector, on Lambda probe before catalytic converter
- T40 40-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter
- D126 Connection 24 in engine compartment wiring harness



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- bl = blue
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Data bus diagnostic interface, Engine control unit

- J533 Data bus diagnostic interface
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- T16 16-pin connector
- T20d 20-pin connector
- T25 25-pin connector
- T94 94-pin connector

B383 Connection 1 (powertrain CAN bus, high), in main wiring harness

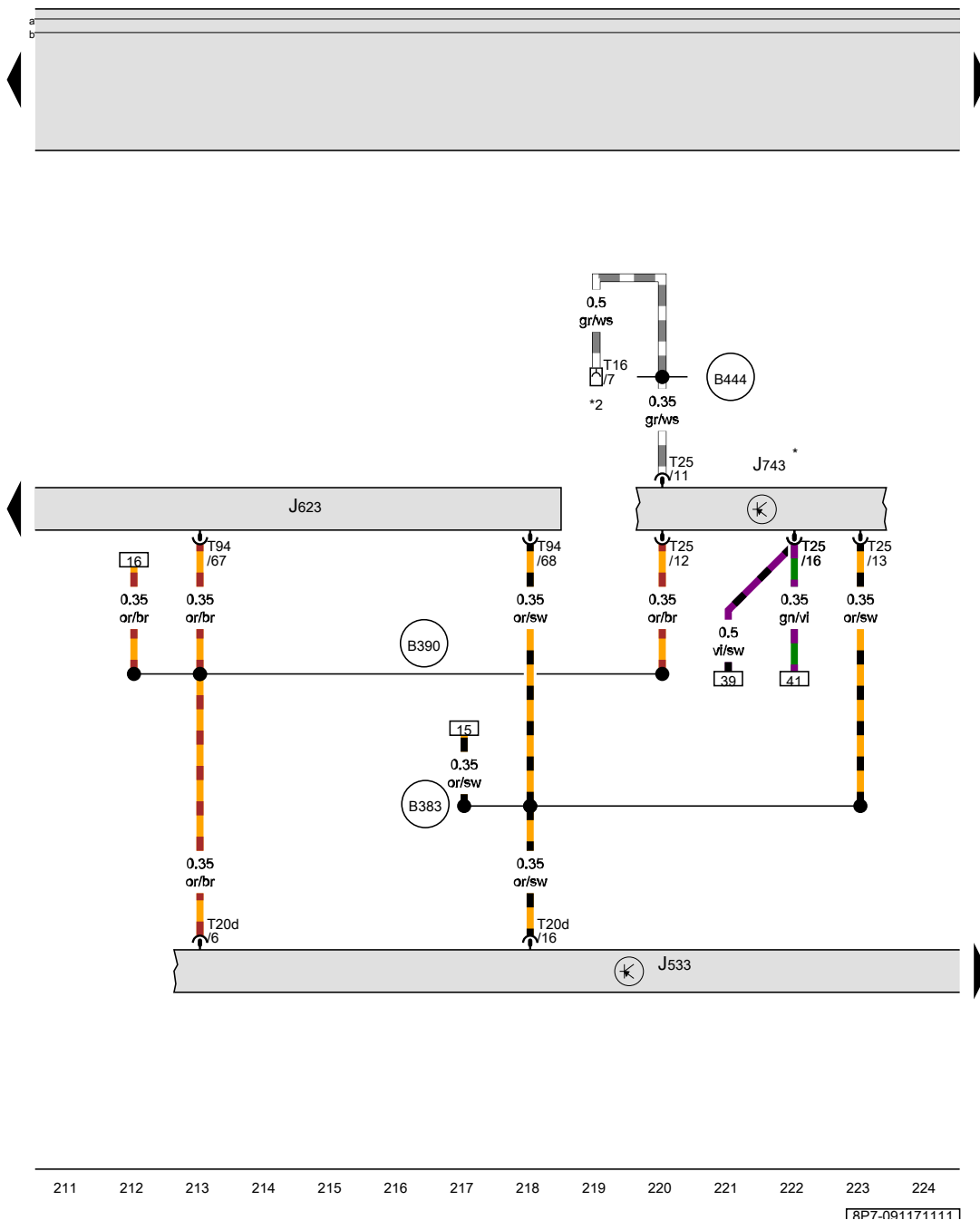
B390 Connection 1 (powertrain CAN bus, low), in main wiring harness

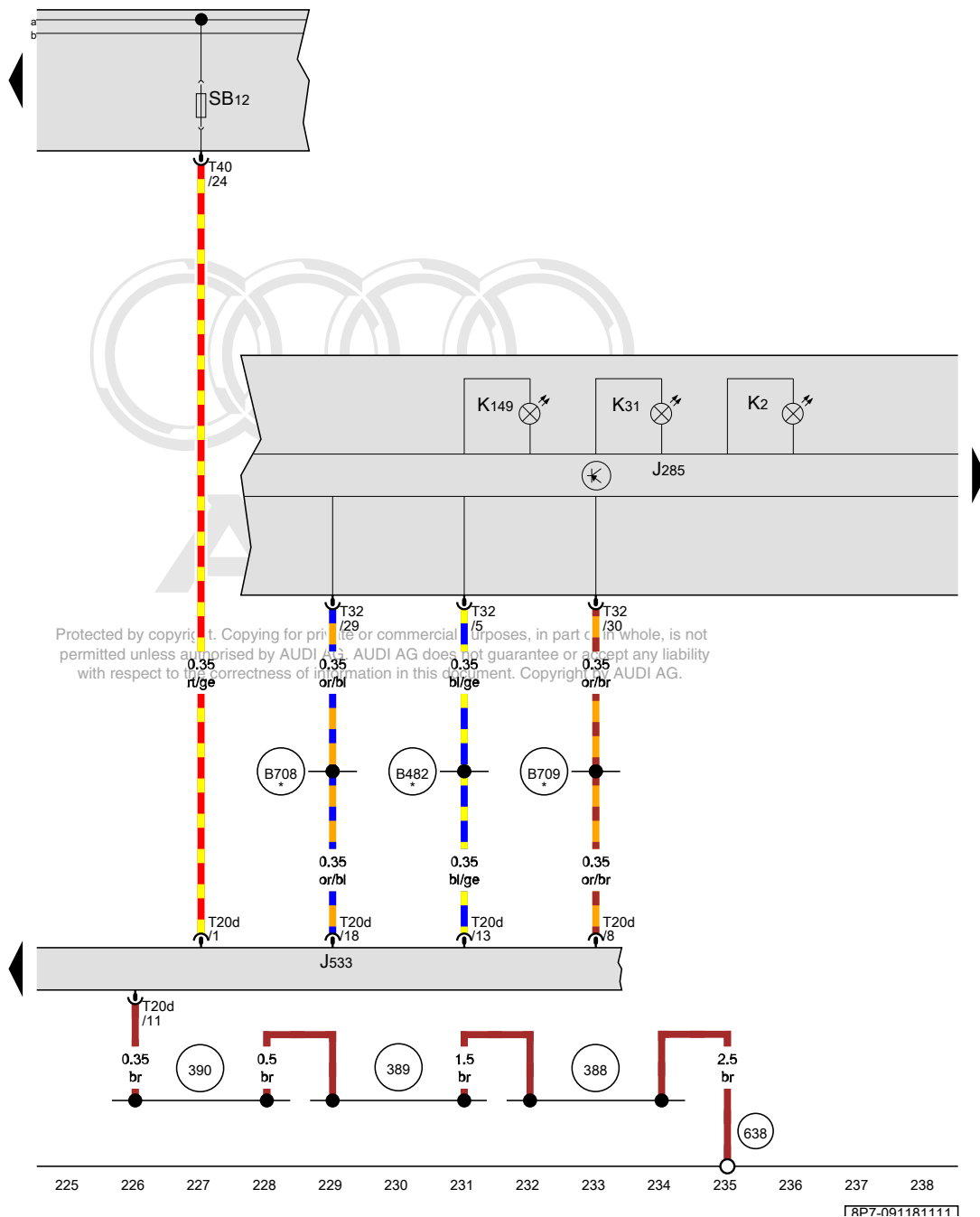
B444 Connection 1 (diagnosis), in main wiring harness

- * Only models with automatic gearbox
- *2 Diagnostic connection

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Control unit in dash panel insert, Data bus diagnostic interface

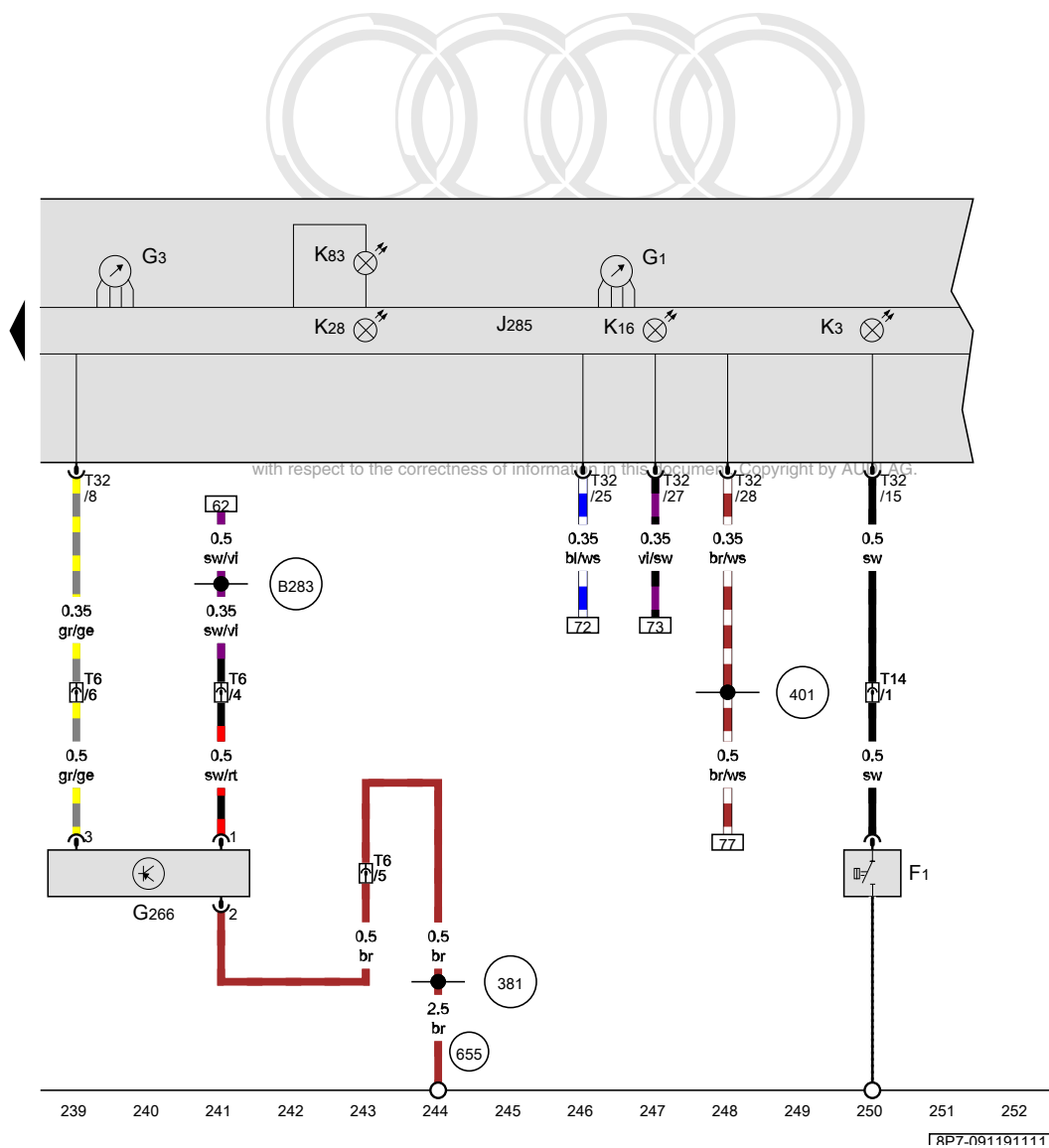
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, on right A-pillar
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * Gradually discontinued

Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, near front left longitudinal member
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector

- 381 Earth connection 16, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 655 Earth point, on left headlight
- B283 Positive connection 7 (15a) in main wiring harness



1.8l petrol engine , CDAA

From May 2009



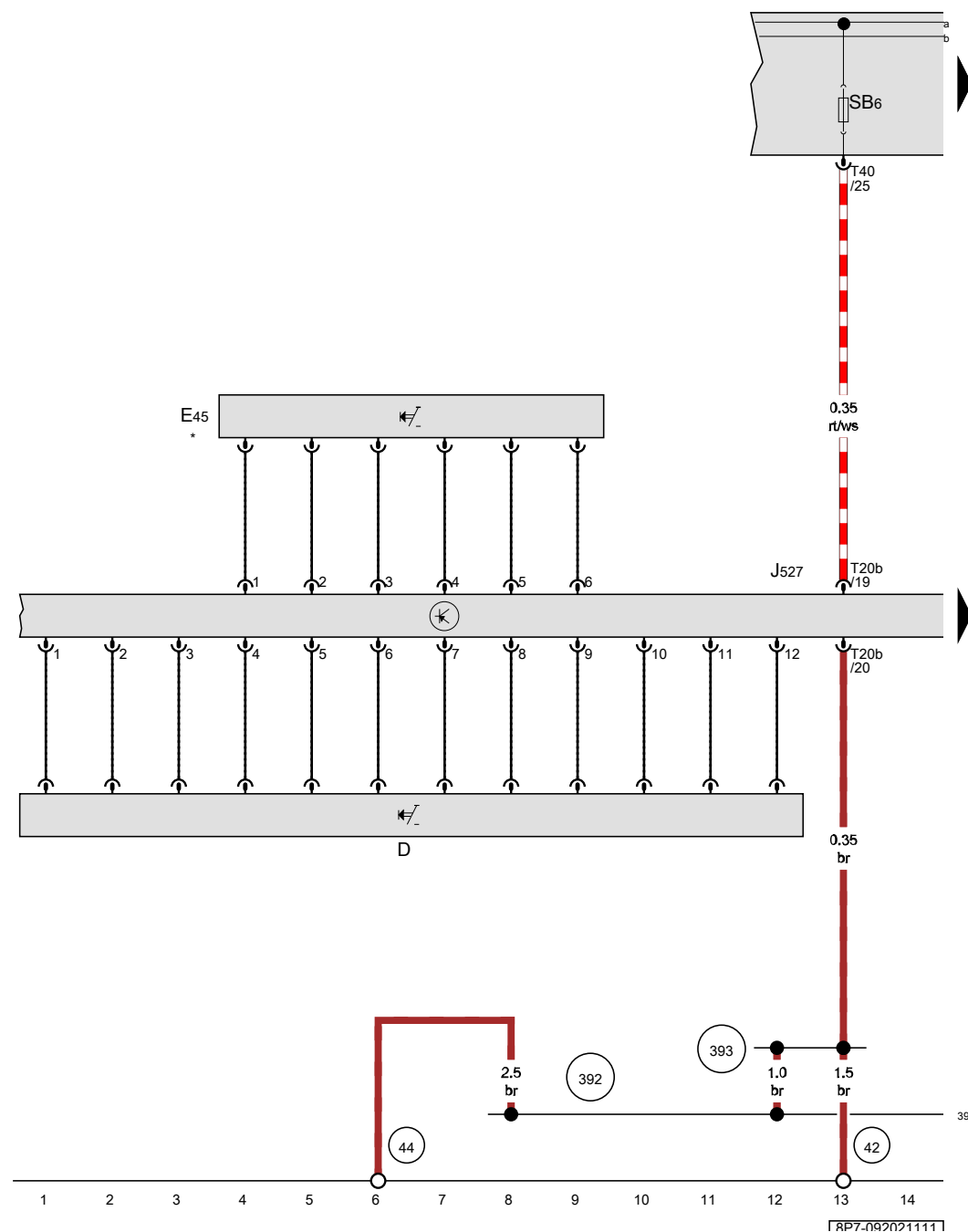
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Ignition/starter switch, Cruise control system switch,
Steering column electronics control unit

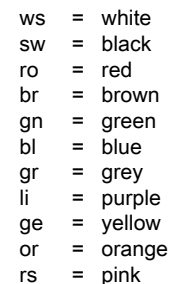
- D Ignition/starter switch
- E45 Cruise control system switch
- J527 Steering column electronics control unit
- SB6 Fuse 6 on fuse holder B
- T20b 20-pin connector
- T40 40-pin connector

- 42 Earth point, next to steering column
- 44 Earth point, lower part of left A-pillar
- 392 Earth connection 27, in main wiring harness
- 393 Earth connection 28, in main wiring harness

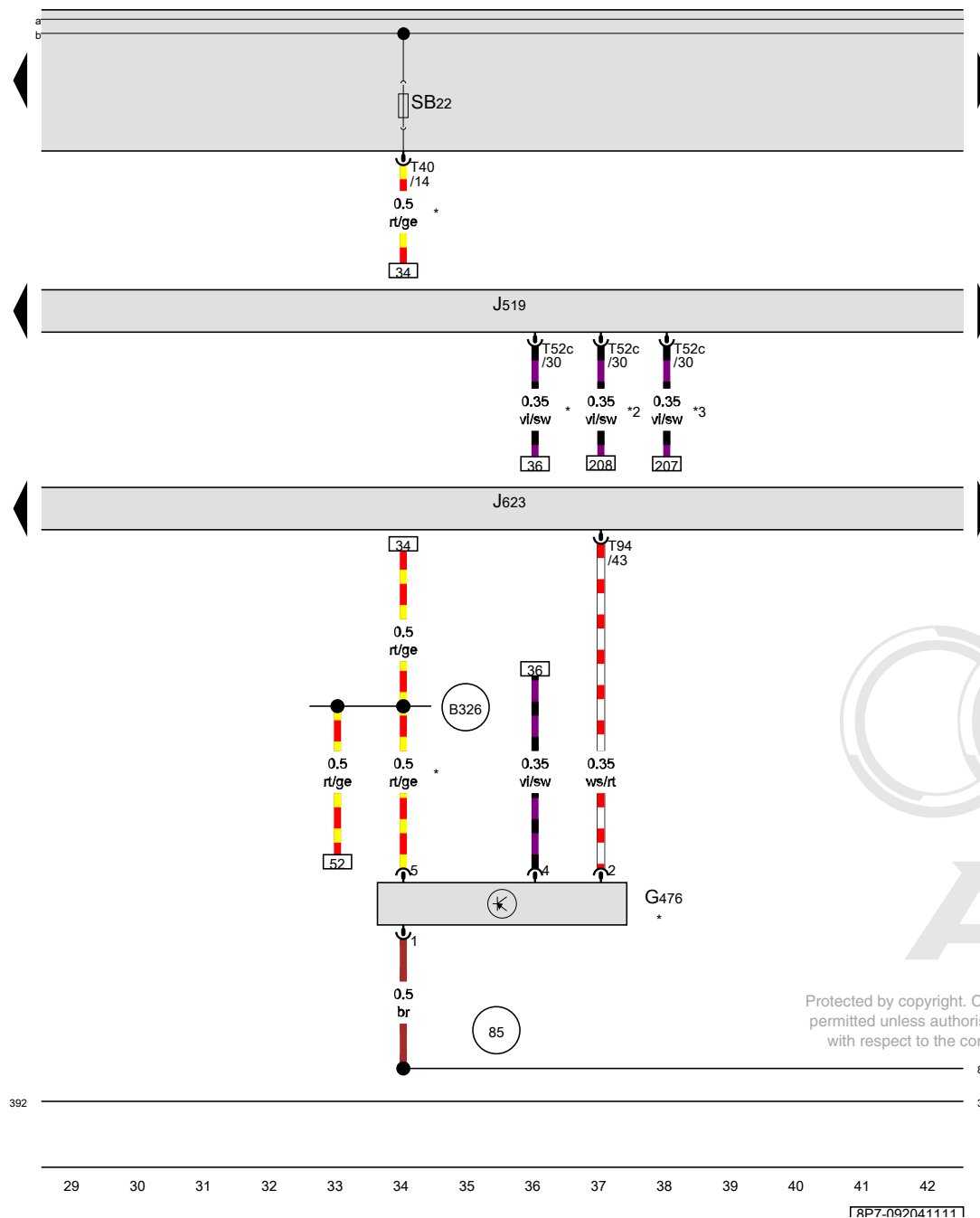
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- rs = pink



*3 Cross section depends on equipment



Clutch position sender, Onboard supply control unit, Engine control unit

G476	Clutch position sender
J519	Onboard supply control unit
J623	Engine control unit
SB22	Fuse 22 on fuse holder B
T40	40-pin connector
T52c	52-pin connector
T94	94-pin connector

85 Earth connection 1, in engine compartment wiring harness

(392) Earth connection 27, in main wiring harness

(B326) Positive connection 12 (30a) in main wiring harness

* Only models with manual gearbox

*2 Only models with dual clutch gearbox 0AM

*3 Only models with dual clutch gearbox 02E

ws = white

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br = brown

gn = green

bl = blue

gr = grey

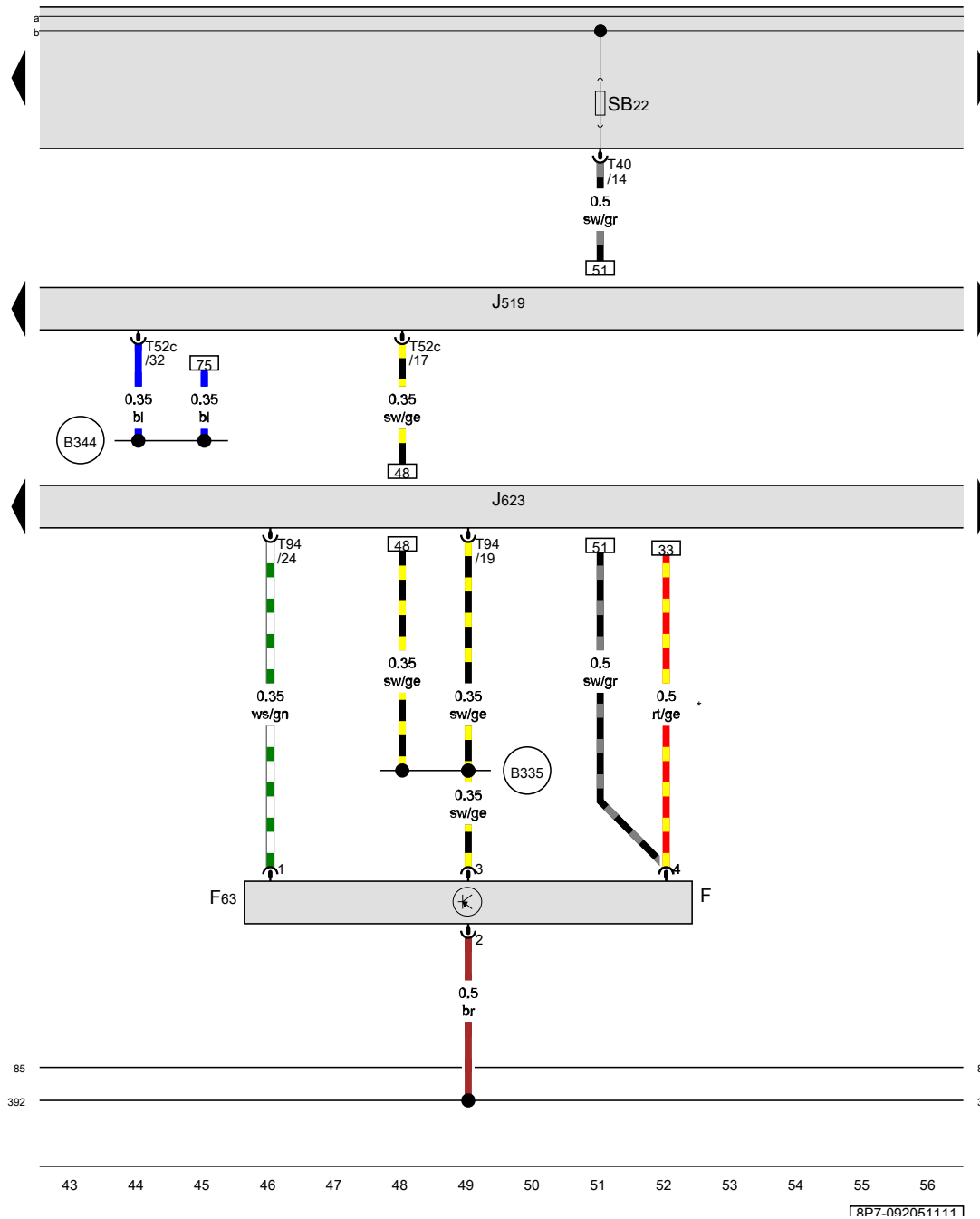
li = purple

ge = yellow

or = orando

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Brake pedal switch, Onboard supply control unit, Engine control unit

- F Brake light switch
- F63 Brake pedal switch
- J519 Onboard supply control unit
- J623 Engine control unit
- SB22 Fuse 22 on fuse holder B
- T40 40-pin connector
- T52c 52-pin connector
- T94 94-pin connector

85 Earth connection 1, in engine compartment wiring harness

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392 Earth connection 27, in main wiring harness

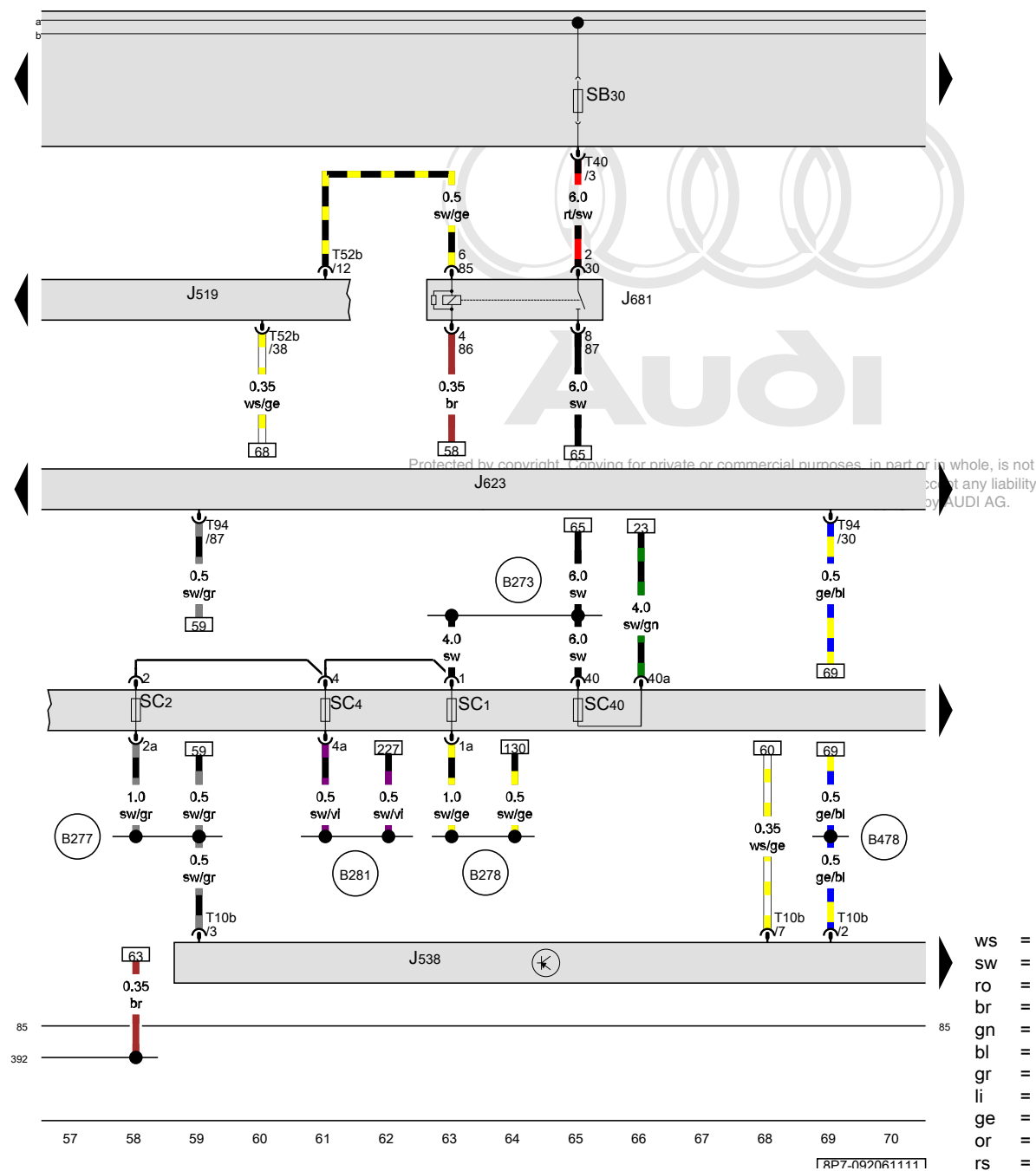
B335 Connection 1 (54), in main wiring harness

B344 Connection 1 (61), in main wiring harness

* Only models with manual gearbox

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[AP7-092051111]



Onboard supply control unit, Fuel pump control unit, Engine control unit, Terminal 15 voltage supply relay 2

- J519 Onboard supply control unit
- J538 Fuel pump control unit
- J623 Engine control unit
- J681 Terminal 15 voltage supply relay 2
- SC1 Fuse 1 on fuse holder C
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SB30 Fuse 30 on fuse holder B
- SC40 Fuse 40 on fuse holder C
- T10b 10-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T94 94-pin connector

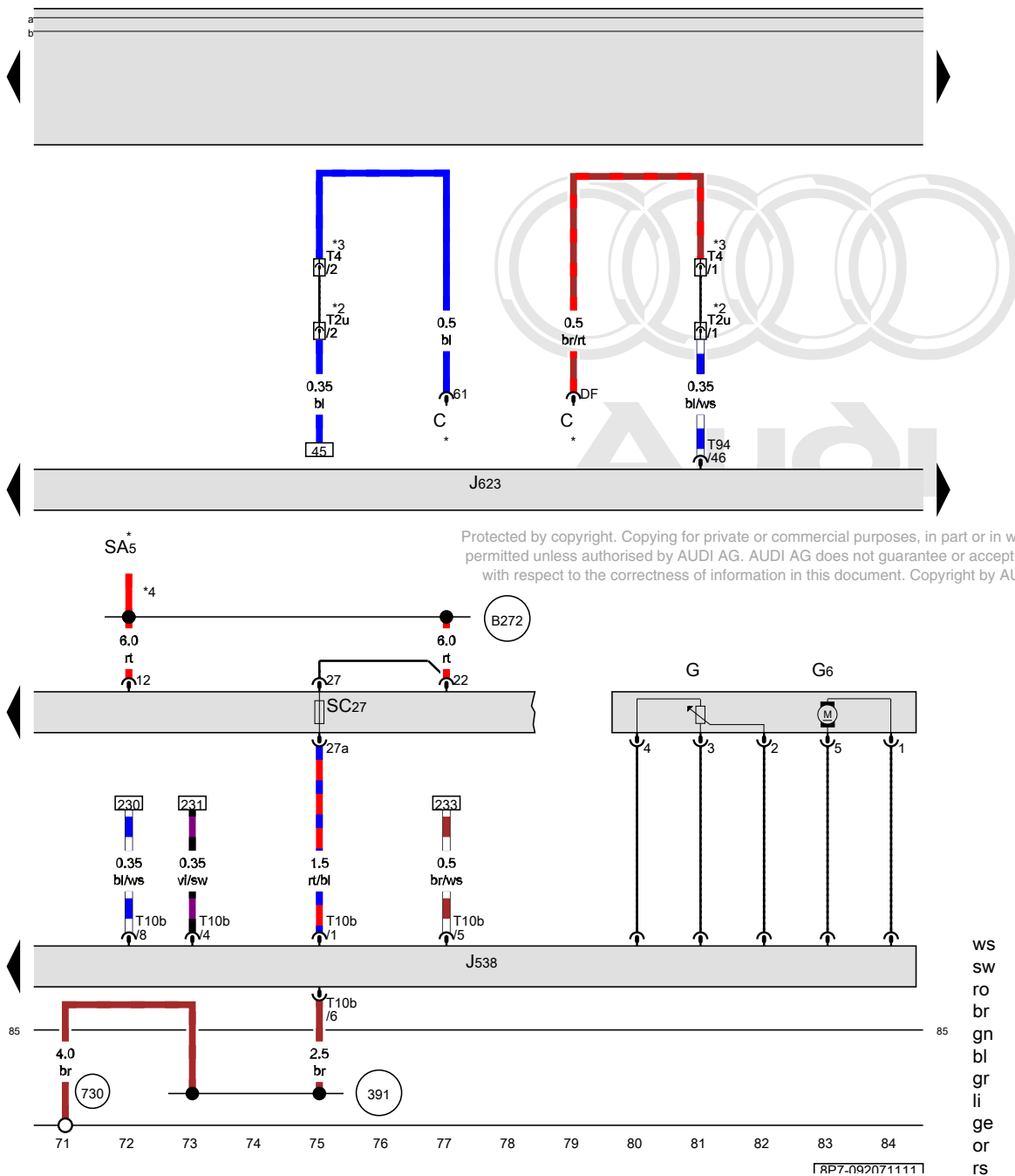
- 85 Earth connection 1, in engine compartment wiring harness
- 392 Earth connection 27, in main wiring harness
- B273 Positive connection (15), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness
- B278 Positive connection 2 (15a) in main wiring harness
- B281 Positive connection 5 (15a) in main wiring harness
- B478 Connection 14, in main wiring harness

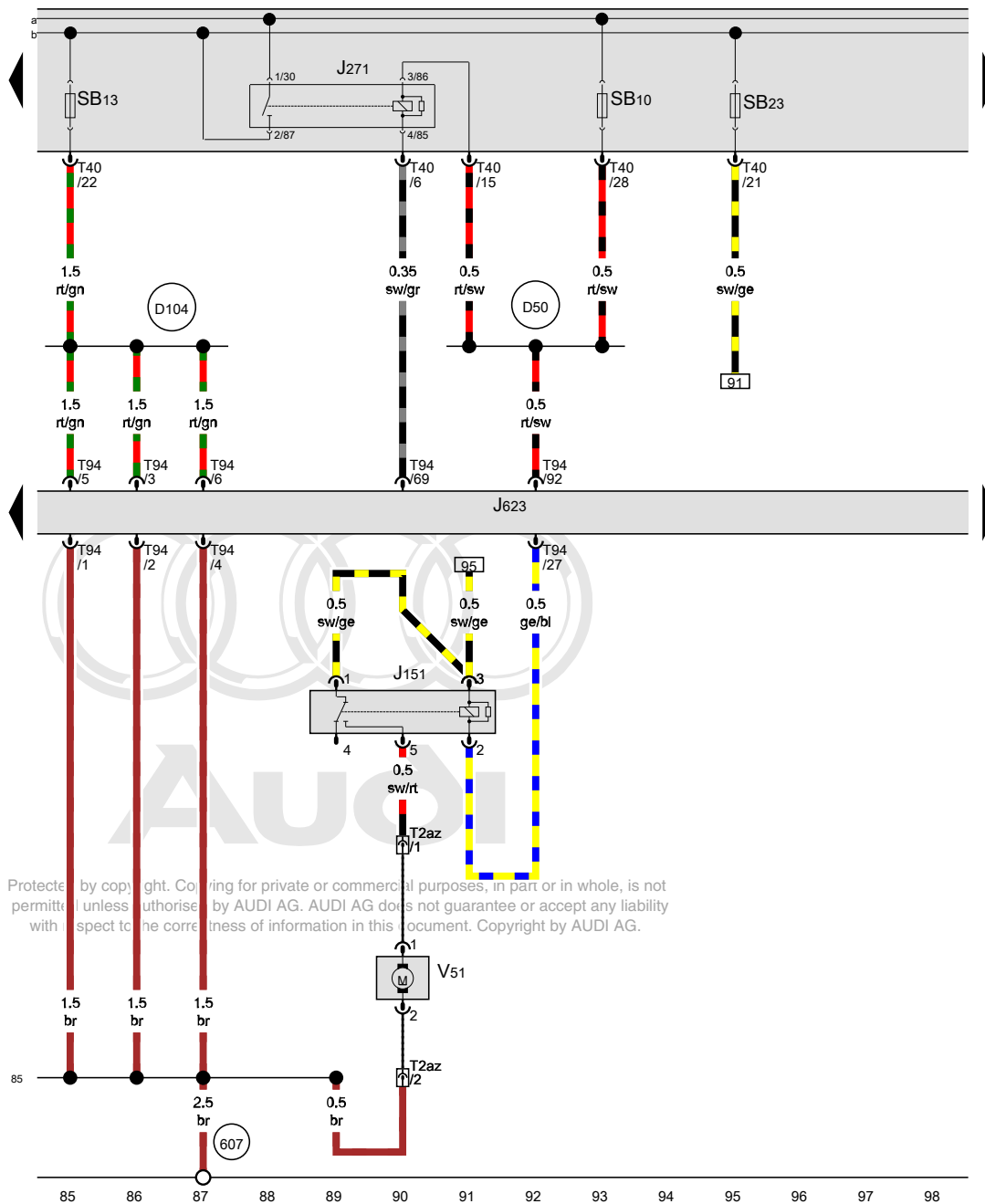
Fuel gauge sender, Fuel system pressurisation pump, Fuel pump control unit, Engine control unit

- C Alternator
- G Fuel gauge sender
- G6 Fuel system pressurisation pump
- J538 Fuel pump control unit
- J623 Engine control unit
- SA5 Fuse 5 in fuse holder A
- SC27 Fuse 27 on fuse holder C
- T2u 2-pin connector, on left in engine compartment
- T4 4-pin connector, on left in engine compartment
- T10b 10-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 391 Earth connection 26, in main wiring harness
- 730 Earth point 1, on right rear wheel housing
- B272 Positive connection (30), in main wiring harness

- * see applicable current flow diagram for battery in engine compartment
- *2 Only models with no air conditioning system
- *3 Only models with air conditioning system
- *4 Cross section depends on equipment





Continued coolant circulation relay, Main relay, Engine control unit, Continued coolant circulation pump

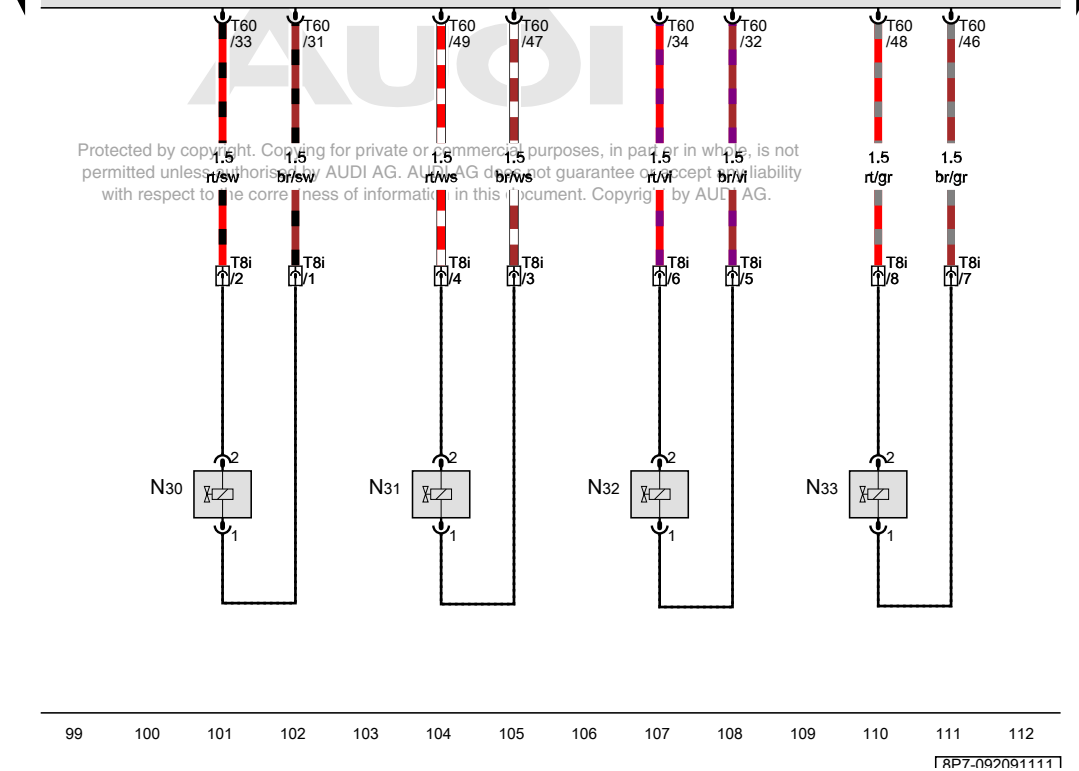
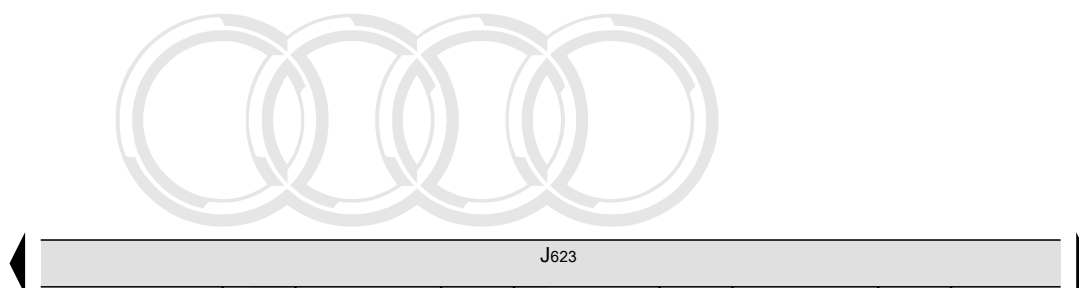
- J151 Continued coolant circulation relay
- J271 Main relay
- J623 Engine control unit
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- T2az 2-pin connector
- T40 40-pin connector
- T94 94-pin connector
- V51 Continued coolant circulation pump

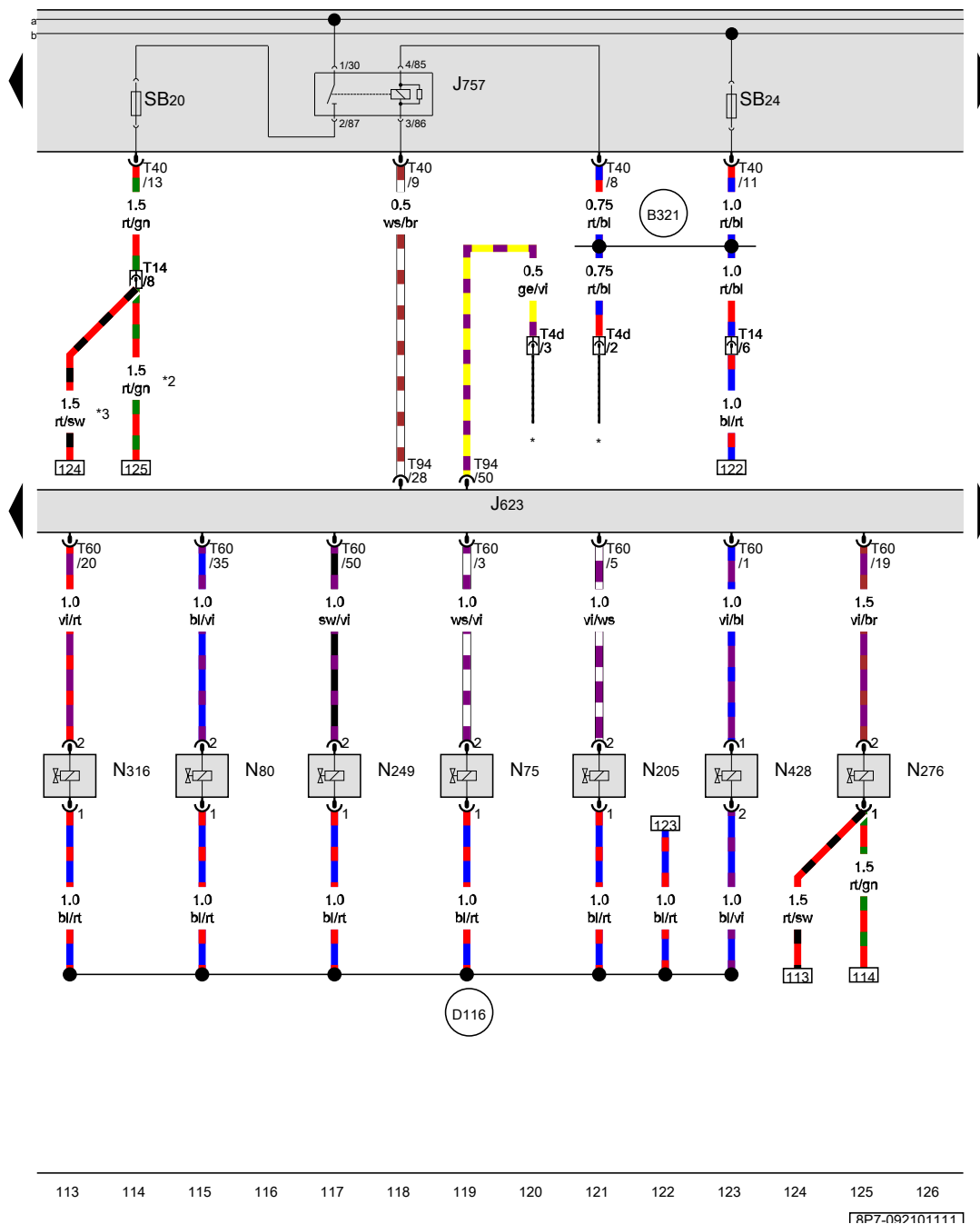
- 85 Earth connection 1, in engine compartment wiring harness
- 607 Earth point, on left in plenum chamber
- D50 Positive connection (30), in engine compartment wiring harness
- D104 Positive connection 2 (30a), in engine compartment wiring harness

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 bl = blue
 gr = grey
 li = purple
 ge = yellow
 or = orange
 rs = pink

Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623 Engine control unit
N30 Injector, cylinder 1
N31 Injector, cylinder 2
N32 Injector, cylinder 3
N33 Injector, cylinder 4
T8i 8-pin connector, near injectors
T60 60-pin connector





Engine control unit, Engine component current supply relay, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve, Fuel pressure regulating valve, Intake manifold flap valve, Valve for oil pressure control

- J623 Engine control unit
- J757 Engine component current supply relay
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter solenoid valve 1
- N205 Camshaft control valve 1
- N249 Turbocharger air recirculation valve
- N276 Fuel pressure regulating valve
- N316 Intake manifold flap valve
- N428 Valve for oil pressure control
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4d 4-pin connector, near radiator fan
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector
- T94 94-pin connector

B321 Positive connection 7 (30a) in main wiring harness

D116 Connection 14 in engine compartment wiring harness

* see applicable current flow diagram for radiator fan

*2 Gradually discontinued

*3 gradual introduction

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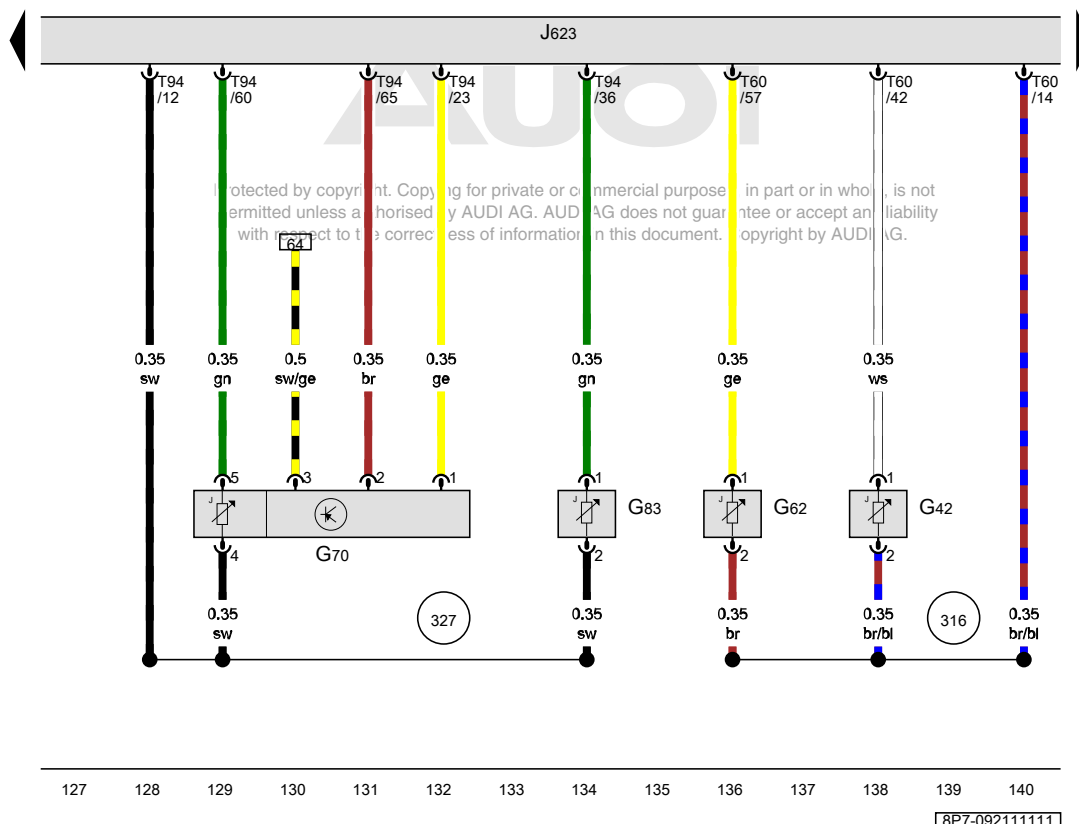
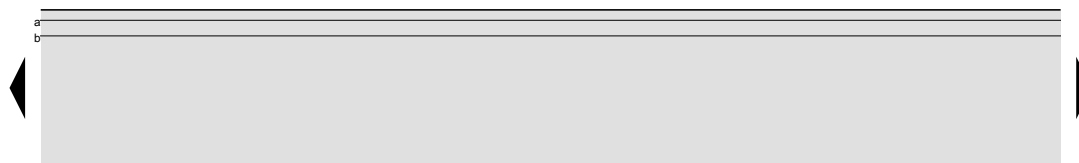
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Intake air temperature sender, Coolant temperature sender, Air mass meter, Radiator outlet coolant temperature sender, Engine control unit

- G42 Intake air temperature sender
- G62 Coolant temperature sender
- G70 Air mass meter
- G83 Radiator outlet coolant temperature sender
- J623 Engine control unit
- T60 60-pin connector
- T94 94-pin connector

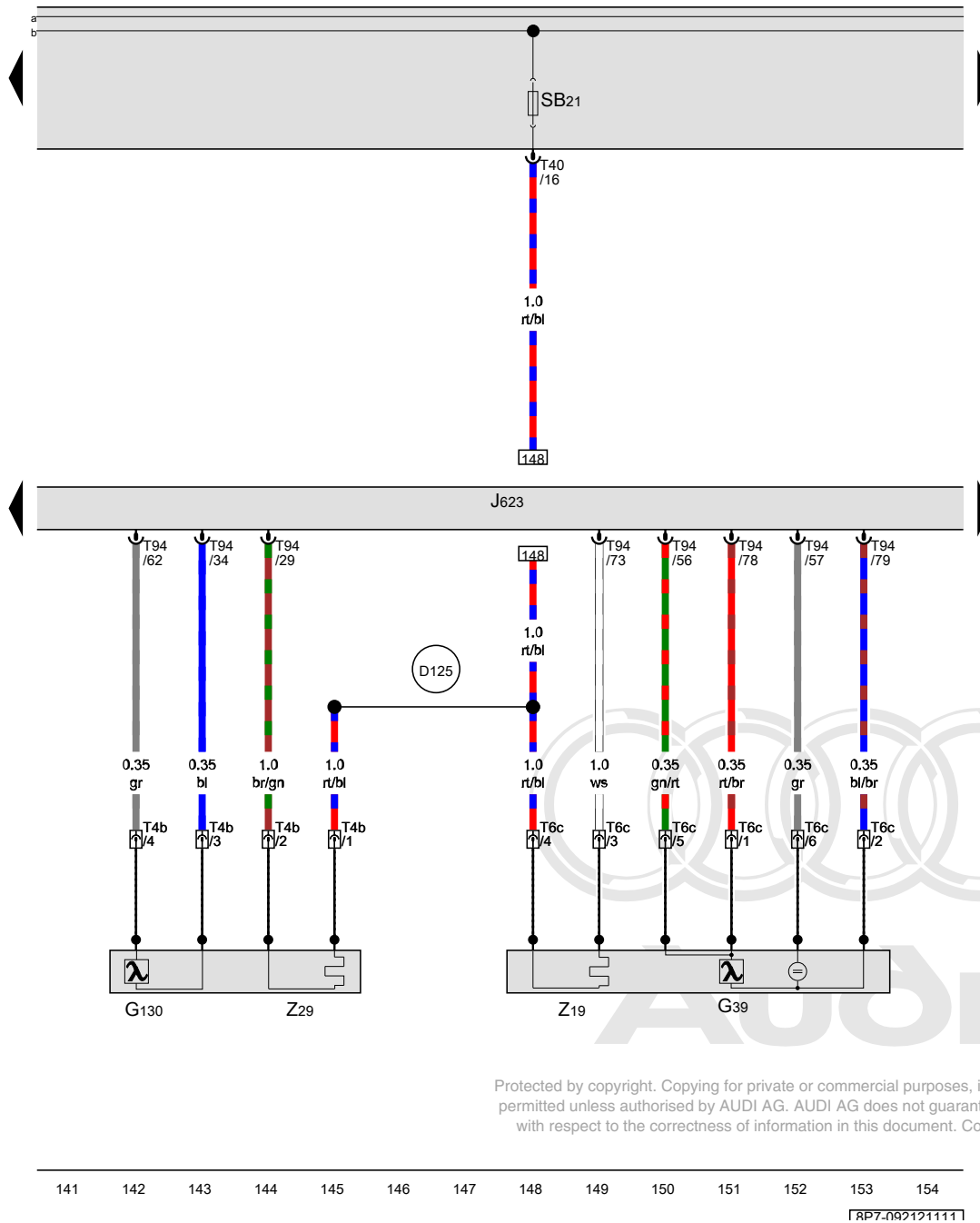
316 Earth connection (sender earth 2) in engine wiring harness

327 Earth connection (sender earth), in engine compartment wiring harness



Lambda probe, Lambda probe after catalytic converter, Engine control unit

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit
- SB21 Fuse 21 on fuse holder B
- T4b 4-pin connector, on Lambda probe after catalytic converter
- T6c 6-pin connector, on Lambda probe before catalytic converter
- T40 40-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter
- D125 Connection 23 in engine compartment wiring harness



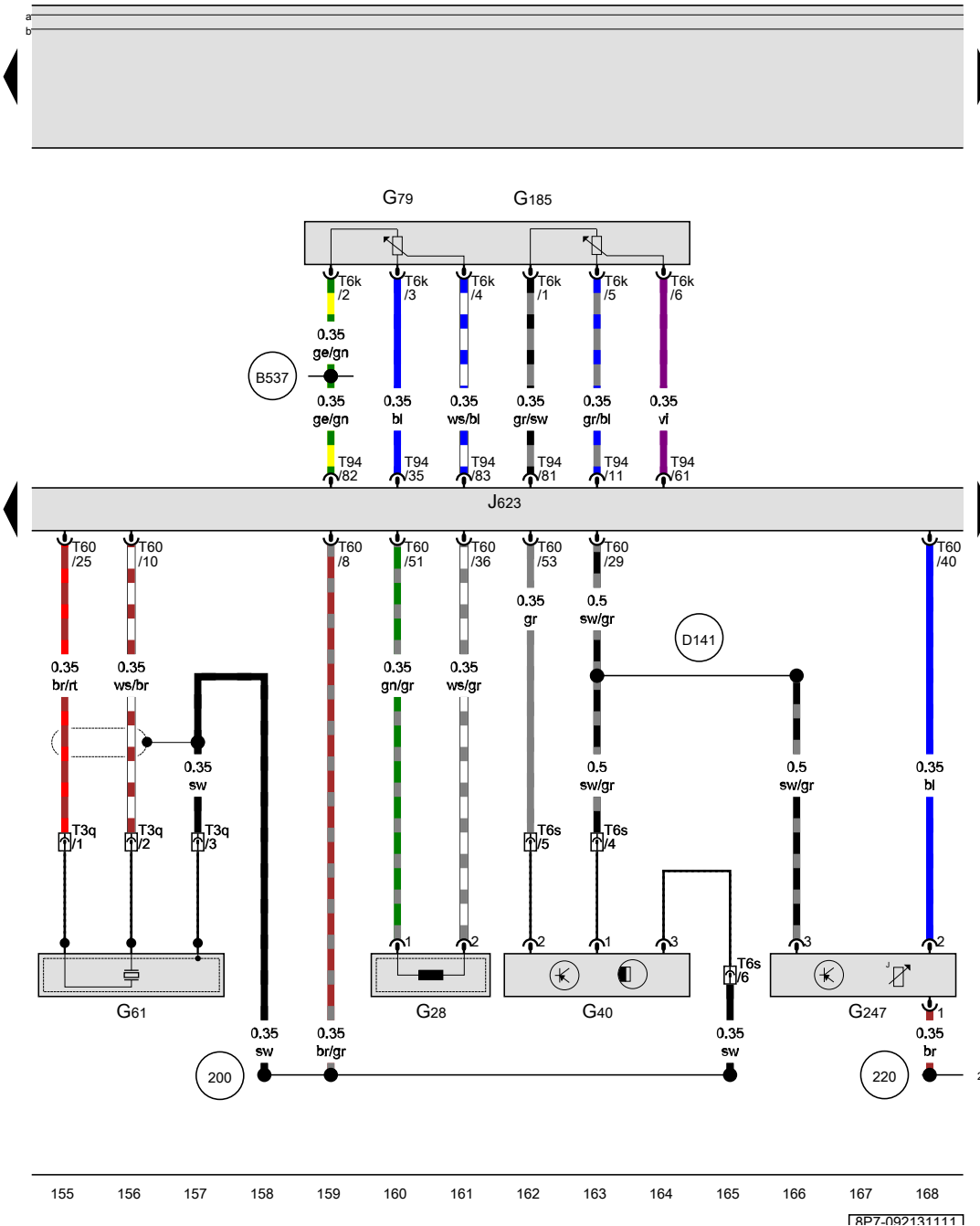
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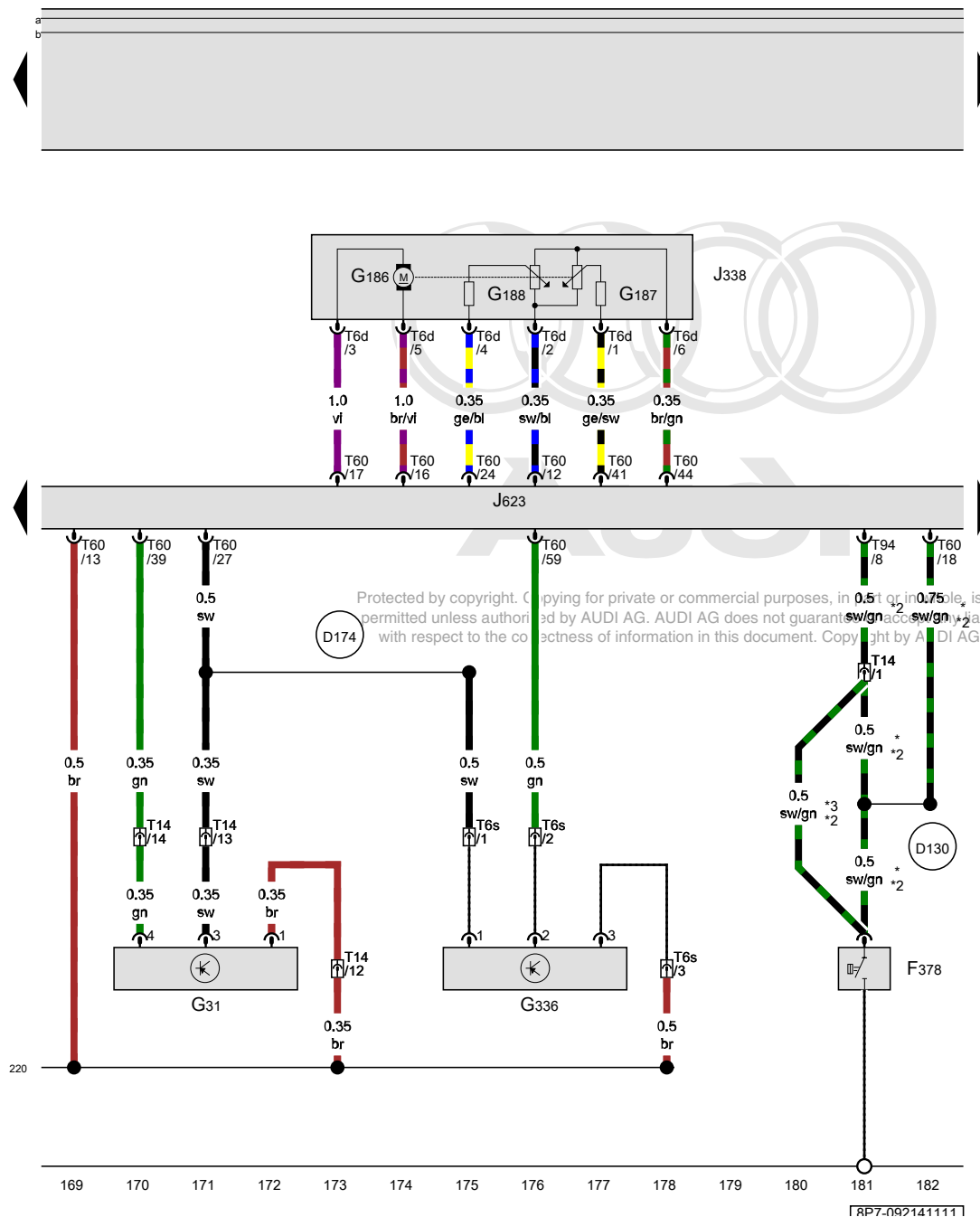
Engine speed sender, Hall sender, Knock sensor 1, Accelerator position sender, Fuel pressure sender, Engine control unit

- G28 Engine speed sender
- G40 Hall sender
- G61 Knock sensor 1
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- G247 Fuel pressure sender
- J623 Engine control unit
- T3q 3-pin connector, near knock sensor
- T6k 6-pin connector
- T6s 6-pin connector, in engine compartment
- T60 60-pin connector
- T94 94-pin connector

- 200 Earth connection (screening), in engine compartment wiring harness
- 220 Earth connection (sender earth), in engine wiring harness
- B537 Connection 28, in main wiring harness
- D141 Connection (5V) in engine prewiring harness

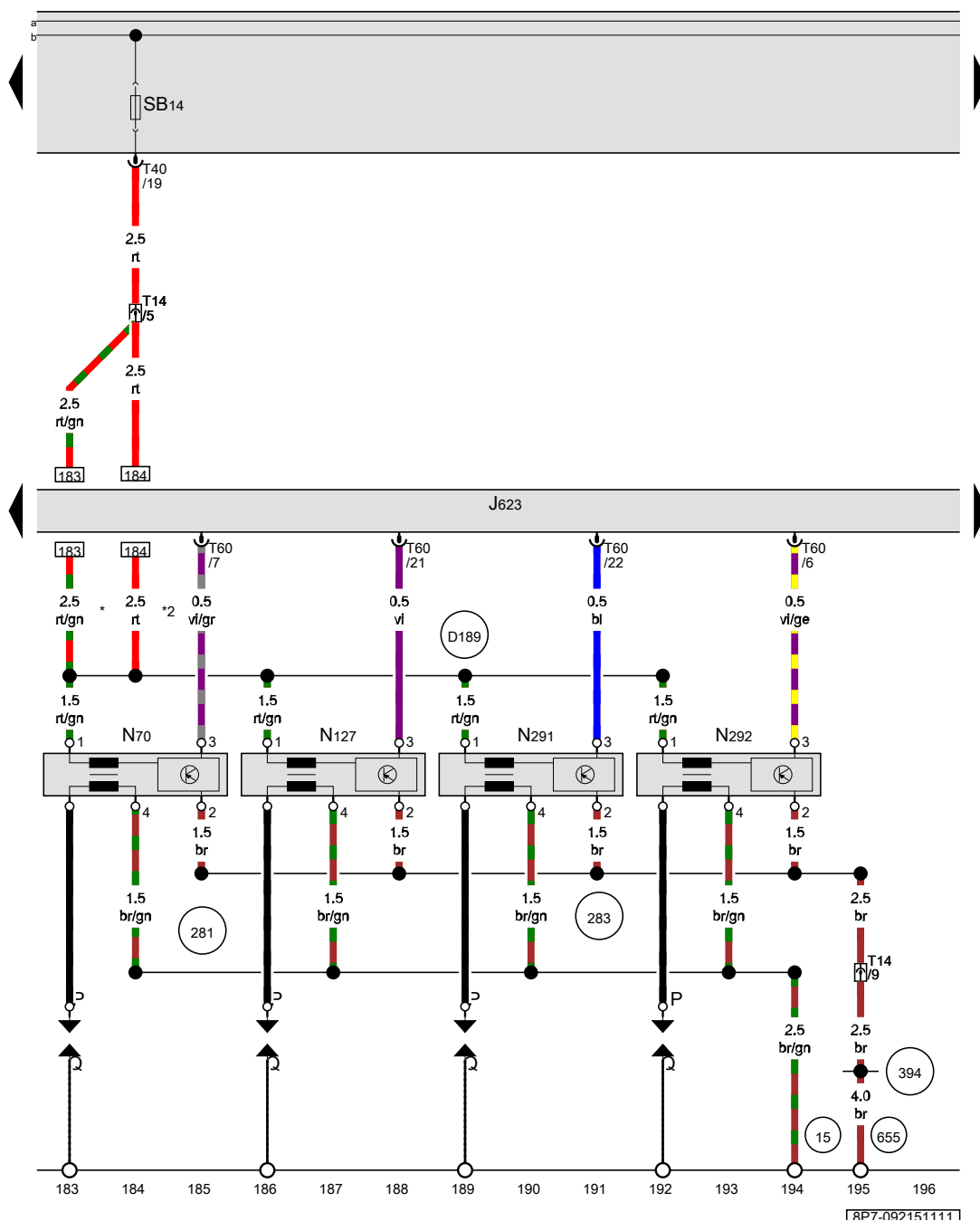
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Oil pressure switch for reduced oil pressure, Charge pressure sender, Intake manifold flap potentiometer, Throttle valve module, Engine control unit

- F378 Oil pressure switch for reduced oil pressure
- G31 Charge pressure sender
- G186 Throttle valve drive for electric throttle
- G187 Throttle valve drive angle sender 1 for electric throttle
- G188 Throttle valve drive angle sender 2 for electric throttle
- G336 Intake manifold flap potentiometer
- J338 Throttle valve module
- J623 Engine control unit
- T6d 6-pin connector
- T6s 6-pin connector, in engine compartment
- T14 14-pin connector, near front left longitudinal member
- T60 60-pin connector
- T94 94-pin connector
- 220 Earth connection (sender earth), in engine wiring harness
- D130 Connection 28 in engine compartment wiring harness
- D174 Connection 2 (5V) in engine prewiring harness
- * gradual introduction
- *2 Only models with no US equipment
- *3 Gradually discontinued



Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 with output stage, Ignition coil 4 with output stage

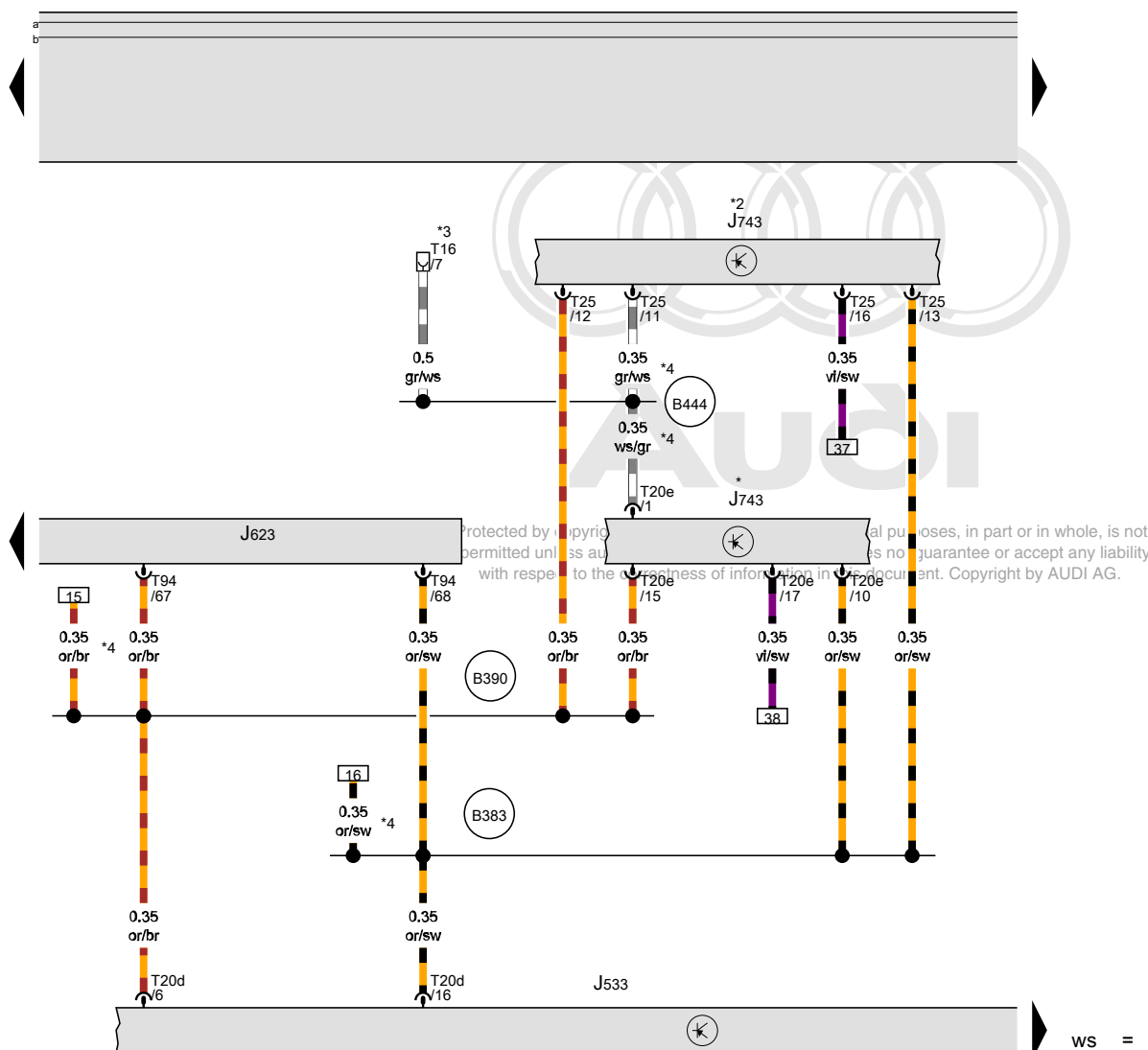
- J623 Engine control unit
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- P Spark plug connector
- Q Spark plugs
- SB14 Fuse 14 on fuse holder B
- T14 14-pin connector, near front left longitudinal member
- T40 40-pin connector
- T60 60-pin connector

- 15 Earth point, on cylinder head
- 281 Earth point 1, engine prewiring harness
- 283 Earth point 2, engine prewiring harness
- 394 Earth connection 29, in main wiring harness
- 655 Earth point, on left headlight
- D189 Connection (87a) in engine prewiring harness

- * gradual introduction
- *2 Gradually discontinued

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**Data bus diagnostic interface, Engine control unit,
Mechatronic unit for dual clutch gearbox**

J533	Data bus diagnostic interface
J623	Engine control unit
J743	Mechatronic unit for dual clutch gearbox
T16	16-pin connector
T20d	20-pin connector
T20e	20-pin connector
T25	25-pin connector
T94	94-pin connector

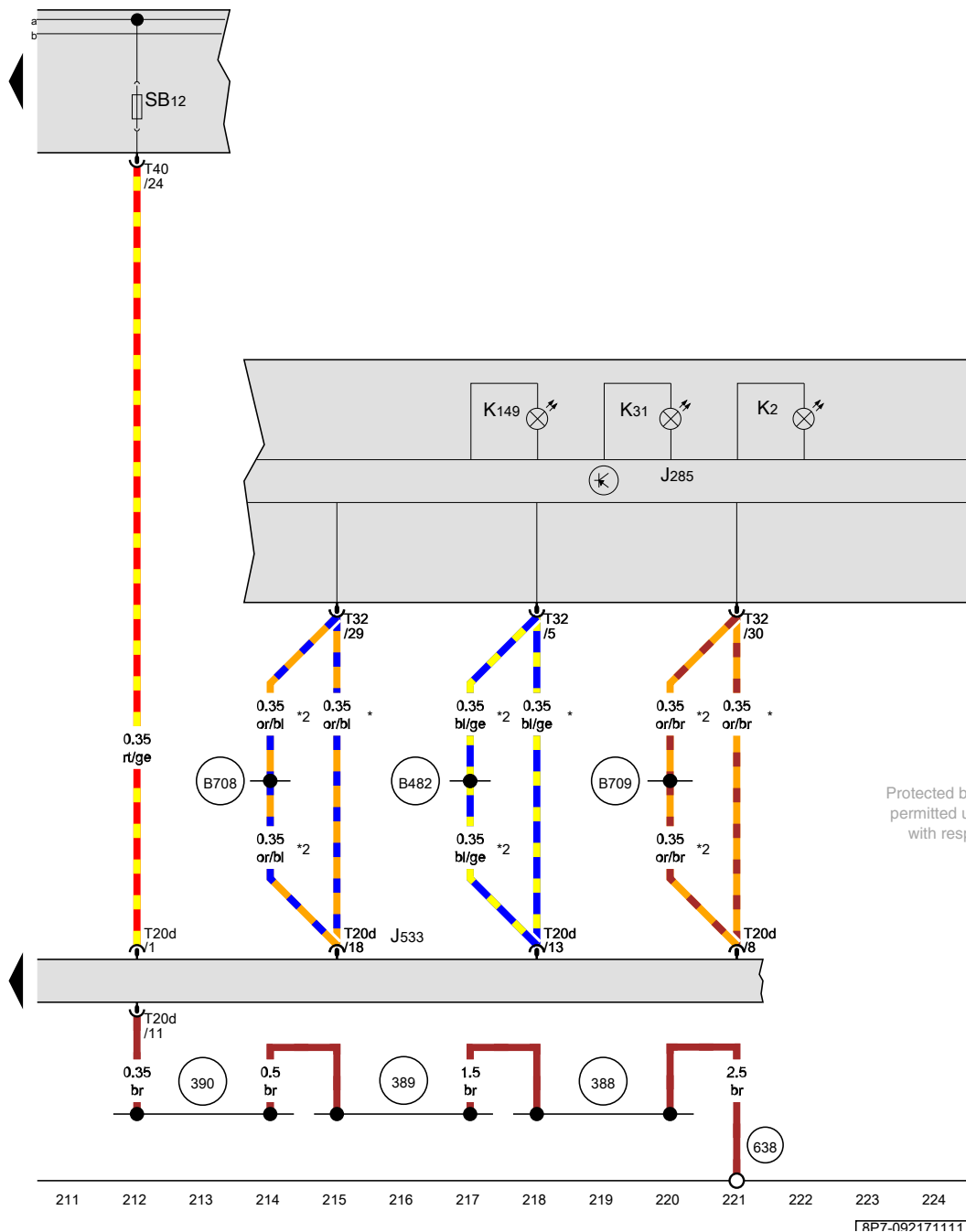
(B383) Connection 1 (powertrain CAN bus, high), in main wiring harness

(B390) Connection 1 (powertrain CAN bus, low), in main wiring harness

(B444) Connection 1 (diagnosis), in main wiring harness

- * Only models with dual clutch gearbox 02E
- *2 Only models with dual clutch gearbox 0AM
- *3 Diagnostic connection
- *4 If fitted

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li = purple
ge = yellow
or = orange
rs = pink



Control unit in dash panel insert, Data bus diagnostic interface

- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- K2 Alternator warning lamp
- K31 Cruise control system warning lamp
- K149 Engine electronics warning lamp
- SB12 Fuse 12 on fuse holder B
- T20d 20-pin connector
- T32 32-pin connector
- T40 40-pin connector

- 388 Earth connection 23, in main wiring harness
- 389 Earth connection 24, in main wiring harness
- 390 Earth connection 25, in main wiring harness
- 638 Earth point, on right A-pillar
- B482 Connection 18, in main wiring harness
- B708 Connection 1 (dash panel insert CAN bus high) in main wiring harness
- B709 Connection 1 (dash panel insert CAN bus low) in main wiring harness
- * gradual introduction
- *2 Gradually discontinued

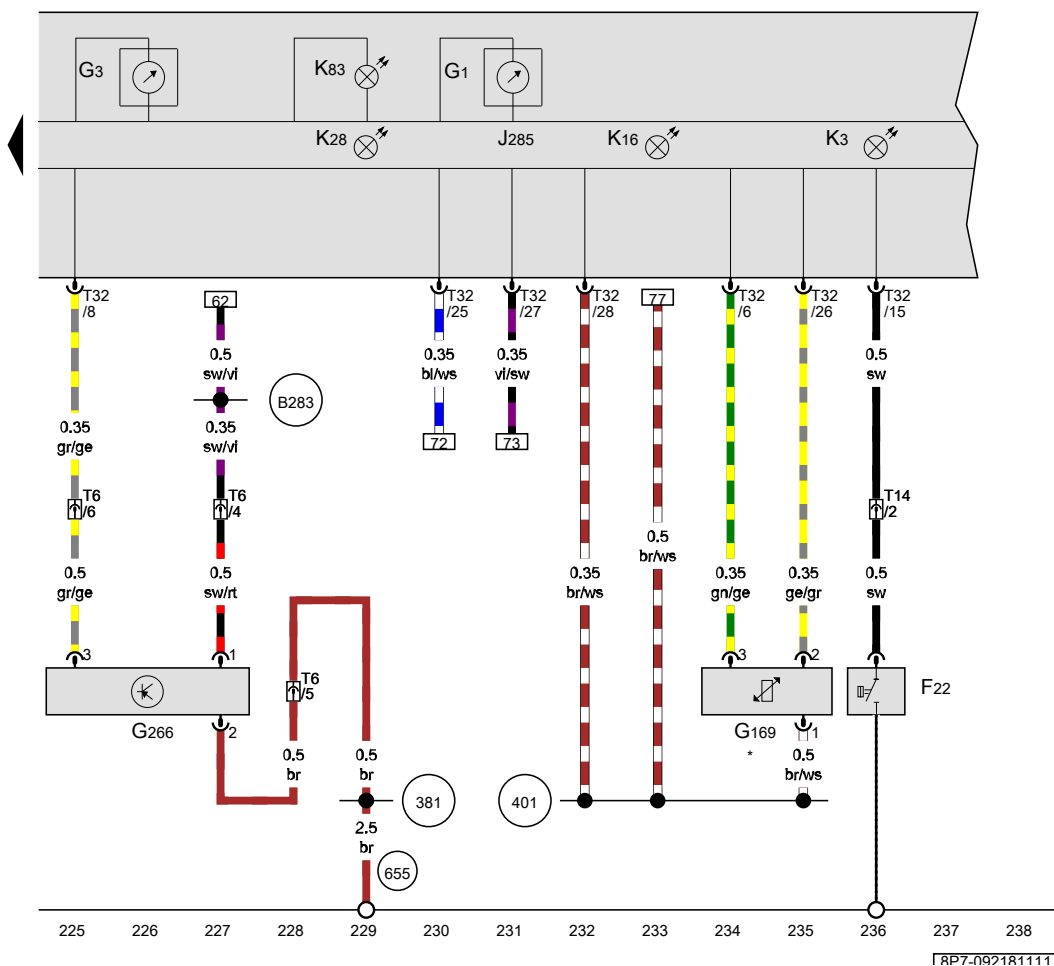
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- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

Oil pressure switch, Fuel gauge sender 2, Oil level and oil temperature sender, Control unit in dash panel insert

- F22 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G169 Fuel gauge sender 2
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K3 Oil pressure warning lamp
- K16 Reserve fuel warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K83 Exhaust emissions warning lamp
- T6 6-pin connector, near front left longitudinal member
- T14 14-pin connector, near front left longitudinal member
- T32 32-pin connector

- 381 Earth connection 16, in main wiring harness
- 401 Earth connection (sender earth), in interior wiring harness
- 655 Earth point, on left headlight
- B283 Positive connection 7 (15a) in main wiring harness
- * Only models with all-wheel drive



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- rs = pink

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1 Earth points

1.1 Overview of earth points in front part of vehicle

1 - Earth point, on left in plenum chamber -607-

□ Location ⇒ [page 4](#)

2 - Earth point, on left in engine compartment -12-

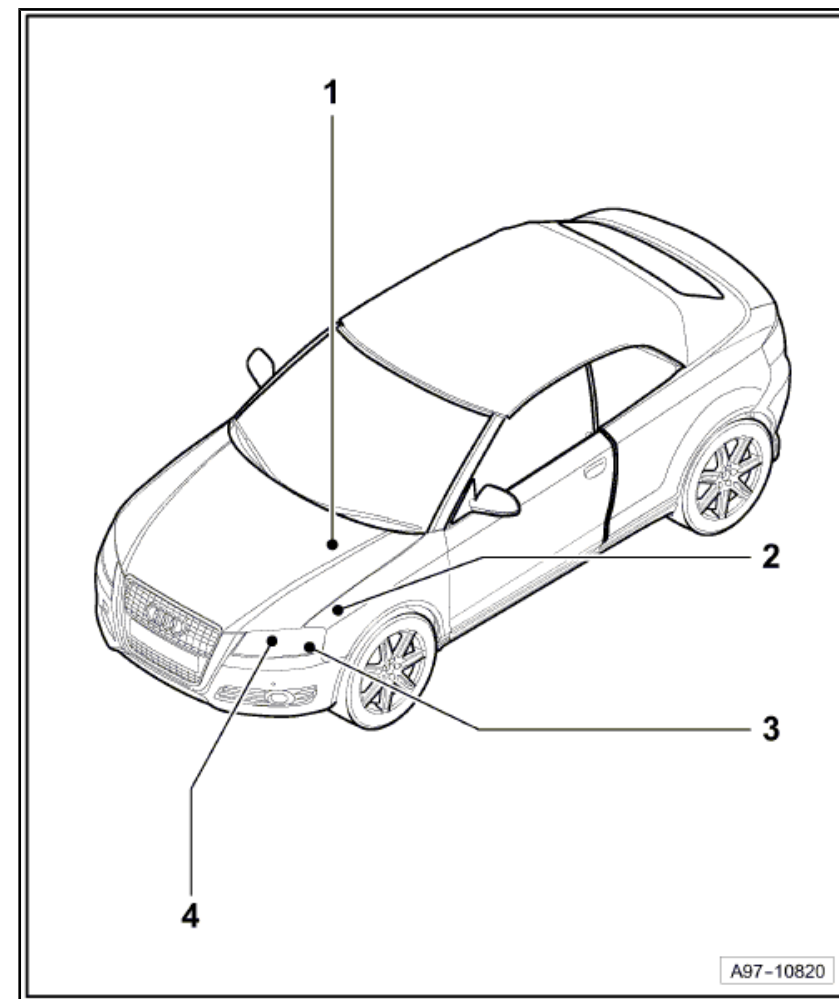
□ Location ⇒ page ⇒ [page 4](#)

3 - Earth point, on left headlight -655-

□ Location ⇒ [page 5](#)

4 - Earth point 1, on front of left longitudinal member -671-

□ Location ⇒ [page 5](#)



1.2 Overview of earth points in interior of vehicle

1 - Earth point, lower part of left A-pillar -44-

□ Location ⇒ page ⇒ [page 6](#)

2 - Earth point, left A-pillar -639-

□ Location ⇒ [page 6](#)

3 - Earth point, next to steering column -42-

4 - Earth point (audio), under centre console, front -610-

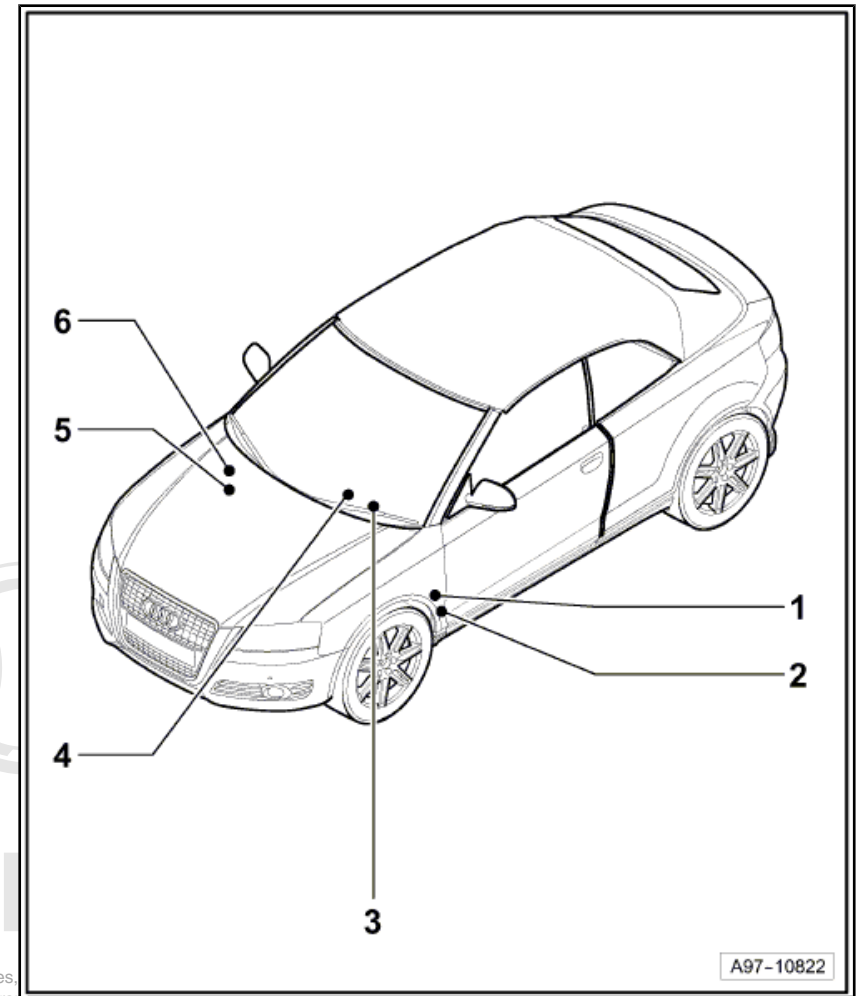
□ Location ⇒ [page 7](#)

5 - Earth point, right A-pillar -638-

□ Location ⇒ [page 6](#)

6 - Earth point, lower part of right A-pillar -43-

□ Location ⇒ page ⇒ [page 6](#)



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1.3 Overview of earth points in rear part of vehicle

1 - Earth point 1 on rear right wheel housing -730-

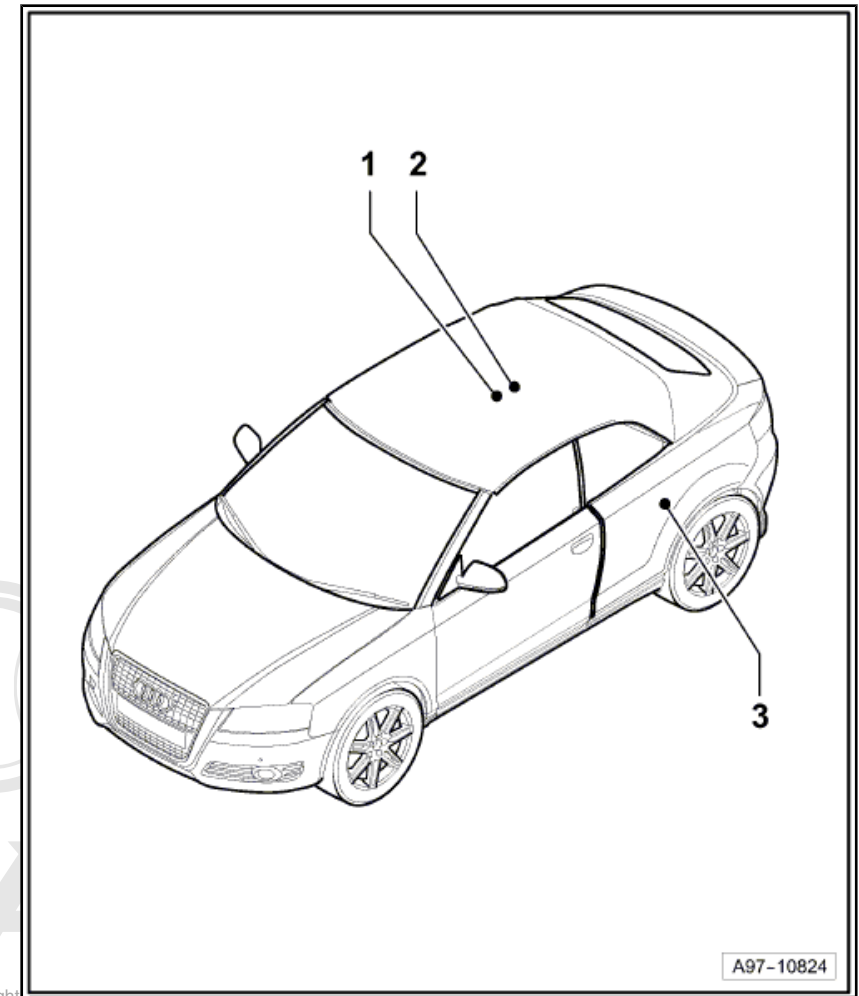
□ Location ⇒ [page 8](#)

2 - Earth point 2 on rear right wheel housing -731-

□ Location ⇒ [page 9](#)

3 - Earth point, on rear left wheel housing -729-

□ Location ⇒ [page 8](#)



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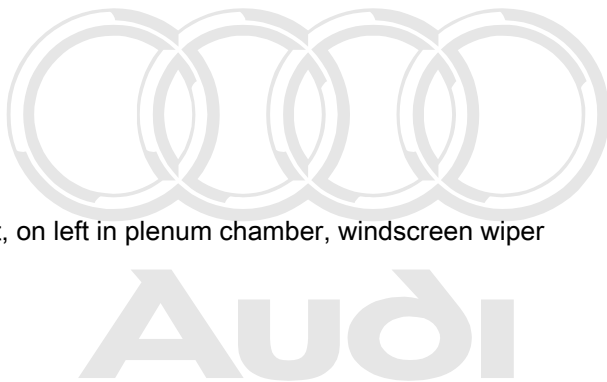
1.4 Earth point, in engine compartment

12 - Earth point, on left in engine compartment, near the battery
-arrow-

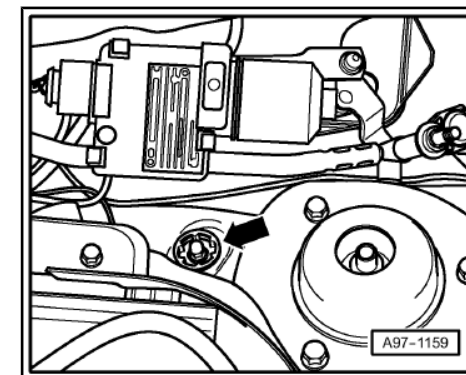
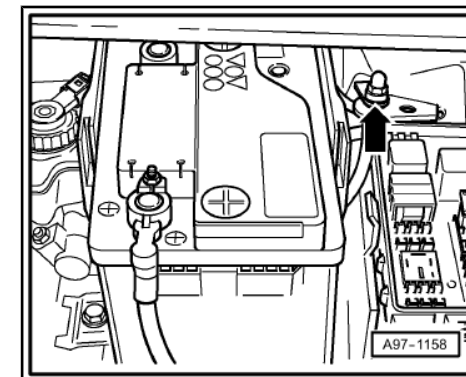
Torque: 15 Nm

607 - Earth point, on left in plenum chamber, windscreen wiper motor -arrow-

Torque: 10 Nm



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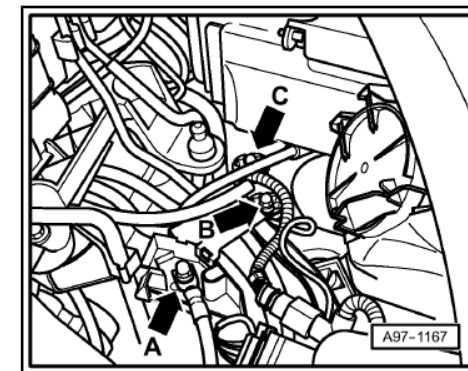


671 - Earth point 1, on front left longitudinal member -arrow A-

Torque: 15 Nm

655 - Earth point, on left headlight, on longitudinal member -arrow C-

Torque: 10 Nm



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1.5 Earth points, in interior

43 - Earth point, lower part of right A-pillar -arrow A-

Torque: 10 Nm

638 - Earth point, right A-pillar -arrow B-

Torque: 10 Nm

44 - Earth point, lower part of left A-pillar -arrow A-

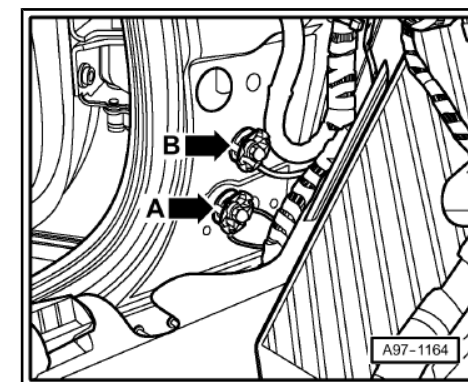
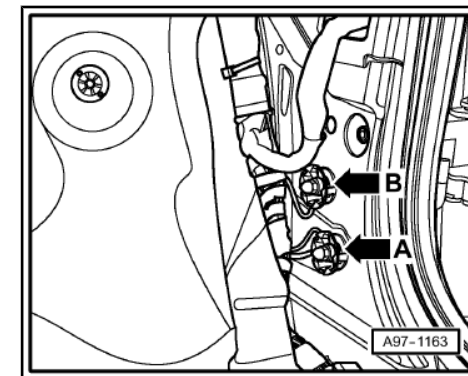
Torque: 10 Nm

639 - Earth point, left A-pillar -arrow B-

Torque: 10 Nm



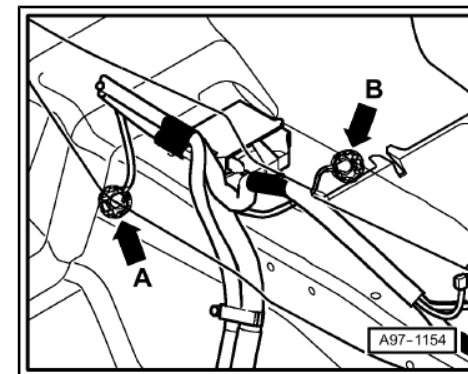
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610 - Earth point (audio), under centre console, front -arrow A-

Torque: 10 Nm



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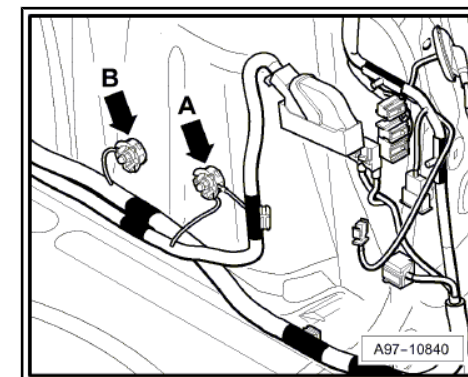
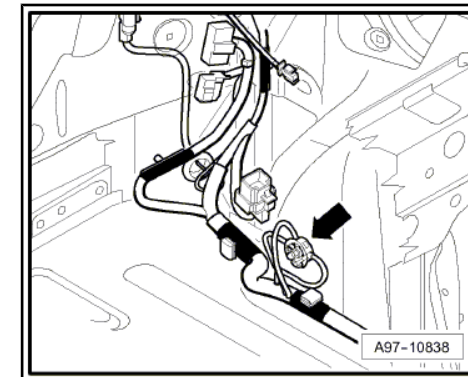
1.6 Earth point, in luggage compartment

729 - Earth point, on rear left wheel housing -arrow-

Torque: 10 Nm

730 - Earth point 1, on rear right wheel housing -arrow B-

Torque: 10 Nm

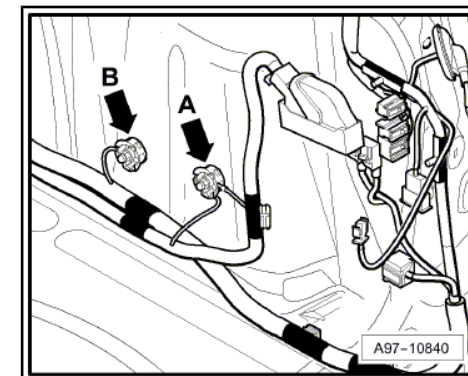


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731 - Earth point 2, on rear right wheel housing -arrow A-

Torque: 10 Nm



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1 Fuses

1.1 Overview of fuses

1 - Fuse holder A -SA-

- ☐ Location on main fuse holder, electronics box low, from March 2008 ⇒ [page 2](#)
- ☐ Location on main fuse holder, electronics box low, from November 2008 ⇒ [page 4](#)
- ☐ Position of fuses on main fuse holder, electronics box low, from March 2008 ⇒ [page 3](#)
- ☐ Position of fuses on main fuse holder, electronics box low, from November 2008 ⇒ [page 5](#)

2 - Fuse holder B -SB-

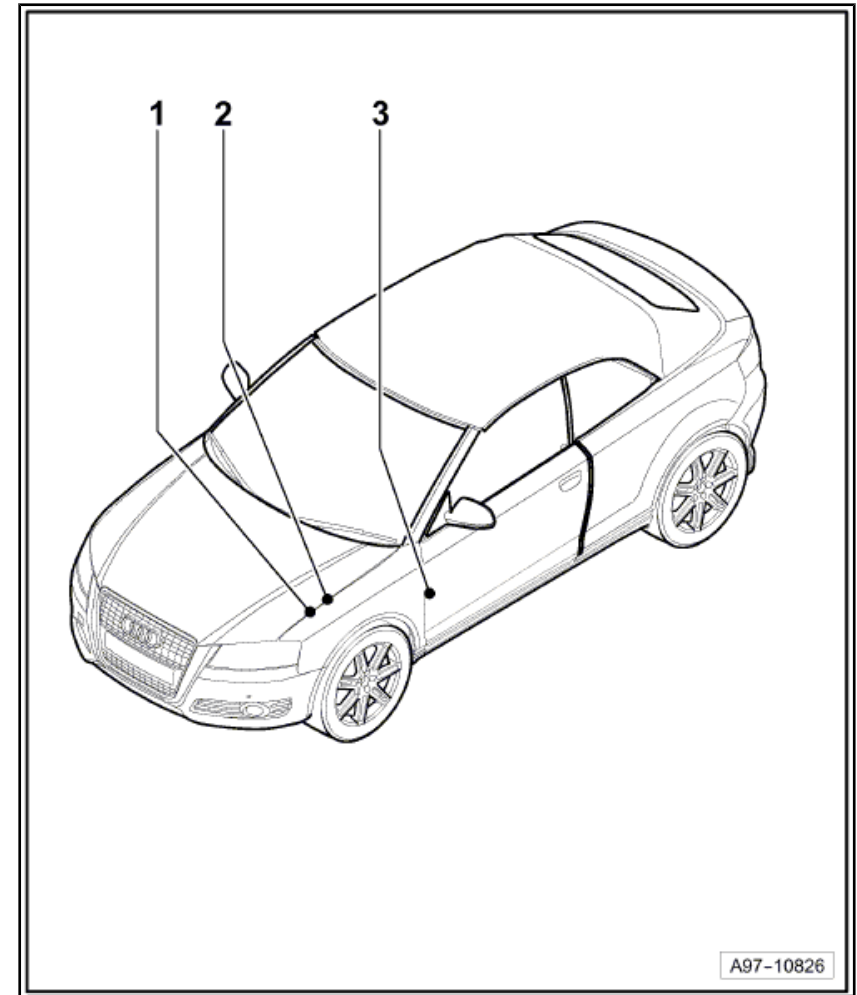
- ☐ Fitting location of E-box low ⇒ [page 6](#)
- ☐ Fuse assignment for E-box low ⇒ [page 7](#)

3 - Fuse holder C -SC-

- ☐ Fitting location ⇒ [page 11](#)
- ☐ Position of fuses ⇒ [page 12](#)



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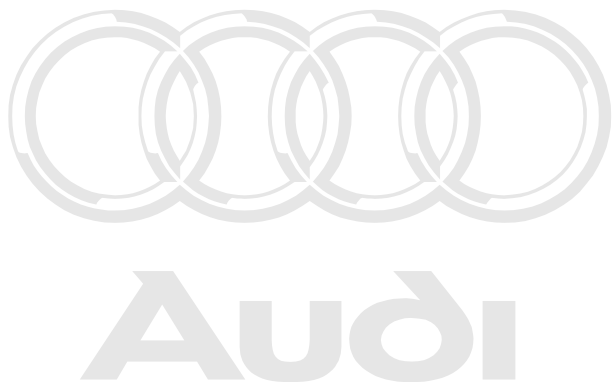
A97-10826



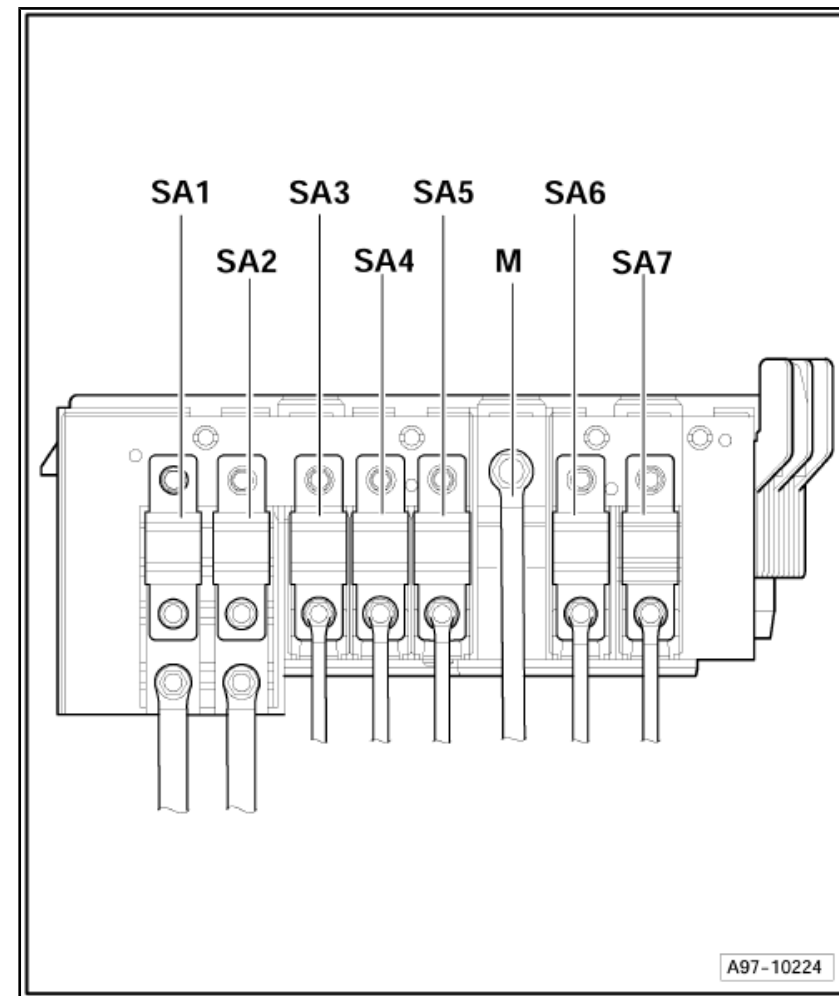
1.2 Main fuse holder: Location fuse holder A -SA- on electronics box low, from March 2008

1.2.1 Main Supply Connection:

M - Screw connection M (terminal 30)



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1.3 Position of fuses electronics box low, from March 2008

Current Flow Diagram designation	Nominal value	Function/component	Terminal
Fuse 1 on fuse holder A -SA1-	150 A	- Alternator -C- (70 A) - Alternator -C- (90 A) - Alternator -C- (110 A) - Alternator -C- (120 A)	30
	200 A	- Alternator -C- (140 A)	30
Fuse 2 on fuse holder A -SA2-	80 A	- Power steering control unit -J500-	30
Fuse 3 on fuse holder A -SA3-	50 A	- Radiator fan thermal switch -F18- - Radiator fan control unit -J293- - Radiator fan -V7-	30
Fuse 4 on fuse holder A -SA4-	40 A	- Low heat output relay -J359-	30
Fuse 5 on fuse holder A -SA5-	80 A	- B272 Positive connection (30), in main wiring harness Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- , -SC28- , -SC38- , -SC43-	30
Fuse 6 on fuse holder A -SA6-	80 A	- High heat output relay -J360-	30
Fuse 7 on fuse holder A -SA7-	-	- Not assigned	-

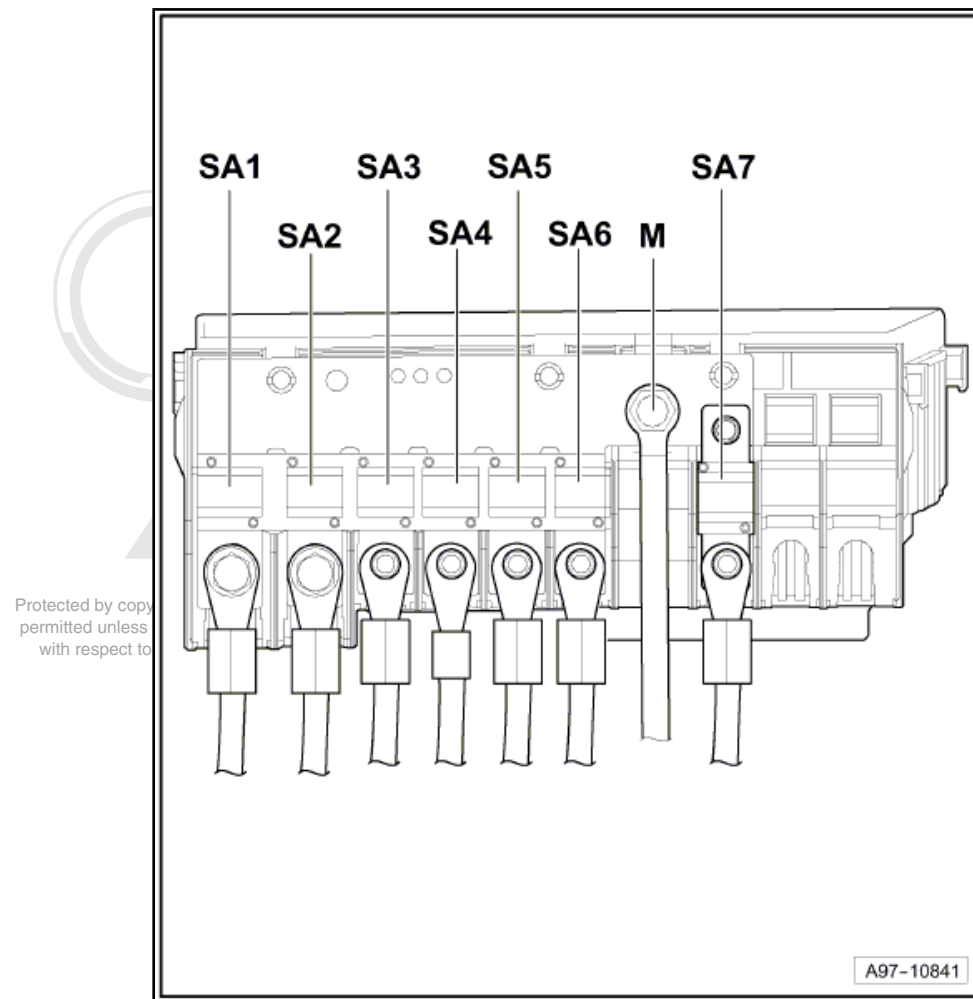


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1.4 Main fuse holder: Location fuse holder A -SA- on electronics box low, from November 2008

1.4.1 Main Supply Connection:

M - Screw connection M (terminal 30)





1.5 Position of fuses in electronics box low, from November 2008

Current Flow Diagram designation	Nominal value	Function/component	Terminal
Fuse 1 on fuse holder A -SA1-	150 A	- Alternator -C- (70 A) Alternator -C- (90 A) Alternator -C- (110 A) Alternator -C- (120 A)	30
	200 A	- Alternator -C- (140 A)	30
Fuse 2 on fuse holder A -SA2-	80 A	- Power steering control unit -J500-	30
Fuse 3 on fuse holder A -SA3-	50 A	- Radiator fan thermal switch -F18- Radiator fan control unit -J293- Radiator fan -V7-	30
Fuse 4 on fuse holder A -SA4-	80 A	- High heat output relay -J360-	30
Fuse 5 on fuse holder A -SA5-	80 A	- B272 Positive connection (30), in main wiring harness Supply for the fuses: -SC12- up to -SC17- , -SC22- up to -SC27- , -SC28- , -SC38- , -SC43-	30
Fuse 6 on fuse holder A -SA6-	40 A	- Low heat output relay -J359-	30
Fuse 7 on fuse holder A -SA7-	-	- Not assigned	-

1.6 Location fuse holder B -SB- on electronics box low, in left of engine compartment

1.6.1 Fuse colours

50 A - red

40 A - orange

30 A - light-green

25 A - natural (white)

20 A - yellow

15 A - light blue

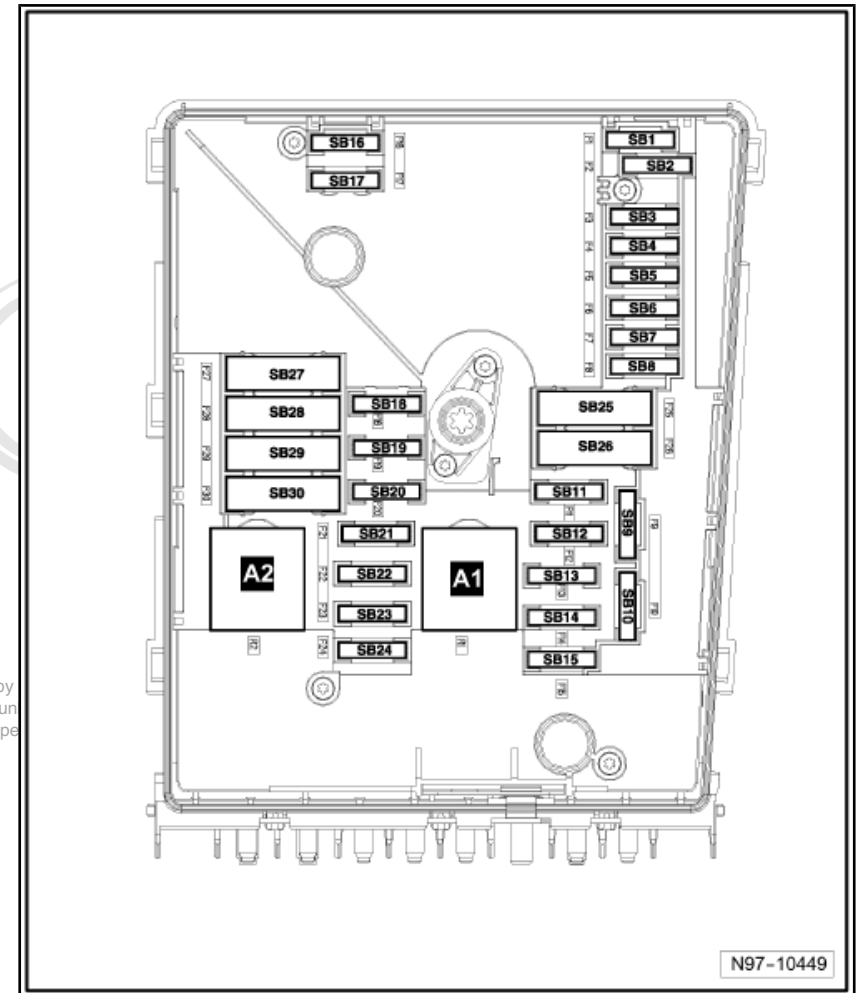
10 A - red

7.5 A - brown

5 A - light-brown

3 A - purple

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1.7 Position of fuses electronics box low

No.		Current Flow Diagram designation	Nominal value	Function/component	Terminal
F1	-	Fuse 1 on fuse holder B -SB1-	40 A	- Voltage stabiliser -J532- Supply for the fuses: -SC7- up to -SC11- only models with stop/start system applicable from May 2009	30
F1	-	Fuse 1 on fuse holder B -SB1-	40 A	- Supply for the fuses: -SC7- up to -SC10- only models without stop/start system applicable from May 2009	30
F2	-	Fuse 2 on fuse holder B -SB2-	30 A	- Mechatronic unit for dual clutch gearbox -J743- (7-speed dual clutch gearbox 0AM)	30
F3	-	Fuse 3 on fuse holder B -SB3-	5 A	- Onboard supply control unit -J519-	30
F3	-	Fuse 3 on fuse holder B -SB3-	5 A	- Battery monitor control unit -J367- applicable from May 2009	30
F4	-	Fuse 4 on fuse holder B -SB4-	20 A	- ABS control unit -J104- (MK60 valves)	30
F4	-	Fuse 4 on fuse holder B -SB4-	30 A	- ABS control unit -J104- (MK70 valves) is dropped from May 2008	30
F5	-	Fuse 5 on fuse holder B -SB5-	15 A	- Mechatronic unit for dual clutch gearbox -J743-	30
F6	-	Fuse 6 on fuse holder B -SB6-	5 A	- Control unit in dash panel insert -J285- is dropped from May 2009	30
F6	-	Fuse 6 on fuse holder B -SB6-	5 A	- Steering column electronics control unit -J527-	30
F7	-	Not assigned	-	-	30
F8	-	Fuse 8 on fuse holder B -SB8-	15 A	- Navigation operating electronics control unit -J402- (RNS-E) Control unit with display for radio and navigation system -J503- (RNS low) Radio -R- is dropped from May 2009	30
F8	-	Fuse 8 on fuse holder B -SB8-	25 A	- Control unit with display for radio and navigation -J503- (for Japan only) is dropped from May 2009	30
F9	-	Fuse 9 on fuse holder B -SB9-	5 A	- Navigation system with CD drive control unit -J401- Telephone transmitter and receiver unit -R36- Aerial amplifier for mobile telephone -R86- 18-pin connector -T18a- (VDA interface) is dropped from May 2009	30
F10	-	Fuse 10 on fuse holder B -SB10-	5 A	- Motronic current supply relay -J271- (CBZB, CAXC)	30
F10	-	Fuse 10 on fuse holder B -SB10-	5 A	- Engine control units -J...- (CBAB, CBAA, CAYC, CFFA, CFFB, CBZB, CAXC) Terminal 30 voltage supply relay -J317- (BLS, CBAB, CBAA, CAYC, CFFA, CFFB)	30



F10	-	Fuse 10 on fuse holder B -SB10-	10 A	- Engine control units -J...- (BZB, CAWB, CDAA, CCZA) Motronic current supply relay -J271- (BZB, CAWB, CDAA, CCZA)	30
F11	-	Fuse 11 on fuse holder B -SB11-	20 A	- Auxiliary heater control unit -J364-	30
F12	-	Fuse 12 on fuse holder B -SB12-	5 A	- Data bus diagnostic interface -J533-	30
F13	-	Fuse 13 on fuse holder B -SB13-	30 A	- Engine control units -J...- (BLS, CBAB, CBAA, CAYC, CFFA, CFFB)	87
			15 A	- Engine control units -J...- (BZB, CAWB, BSE, CDAA, CCZA, CBZB, CAXC)	
F14	-	Fuse 14 on fuse holder B -SB14-	20 A	- Ignition coil 1 with output stage -N70- Ignition coil 2 with output stage -N127- Ignition coil 3 with output stage -N291- Ignition coil 4 with output stage -N292- for models with engine codes BZB, CAWB, CDAA, CCZA, CAXC only	87
F14	-	Fuse 14 on fuse holder B -SB14-	20 A	- Ignition coil 1 with output stage -N- Output stage -N122- Ignition coil 2 -N128- for models with engine codes BSE, CBZB only	87
F14	-	Fuse 14 on fuse holder B -SB14-	20 A	- Fuel pressure regulating valve -N276- Fuel metering valve -N290- for models with engine codes CBAB, CBAA, CAYC, CFFA, CFFB only is dropped from May 2011	87
F14	-	Fuse 14 on fuse holder B -SB14-	15 A	- Fuel pressure regulating valve -N276- Fuel metering valve -N290- for models with engine codes CBAB, CBAA, CAYC, CFFA, CFFB only applicable from May 2011	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	- Fuel pump relay -J17- Automatic glow period control unit -J179- for models with engine codes BLS, CBAB, CBAA, CAYC, CFFA, CFFB only	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	- Low heat output relay -J359- High heat output relay -J360- for models with engine codes BLS, CBAB, CBAA, CAYC, CFFA, CFFB only for models with auxiliary air heating only	87
F15	-	Fuse 15 on fuse holder B -SB15-	5 A	- Supplementary fuel pump relay -J832- for models with engine codes CBAB, CBAA, CFFA, CFFB only	87
F15	-	Fuse 15 on fuse holder B -SB15-	10 A	- Lambda probe heater -Z19- (CBZB, CAXC) Lambda probe 1 heater after catalytic converter -Z29- (CBZB, CAXC)	87
F16	-	Fuse 16 on fuse holder B -SB16-	30 A	- Onboard supply control unit -J519- Right side light supply, right main beam, right dipped beam, right turn signal, right fog light	30
F17	-	Fuse 17 on fuse holder B -SB17-	15 A	- High tone horn -H2- Low tone horn -H7-	30
F18	-	Fuse 18 on fuse holder B -SB18-	30 A	- Amplifier -R12-	30

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F18	-	Fuse 18 on fuse holder B -SB18-	30 A	- Voltage stabiliser -J532- Amplifier -R12- only models with stop/start system applicable from May 2009	30
F19	-	Fuse 19 on fuse holder B -SB19-	30 A	- Wiper motor control unit -J400-	30
F20	-	Fuse 20 on fuse holder B -SB20-	10 A	- Coolant circulation pump -V50- (CBZB, CAXC)	87
F20	-	Fuse 20 on fuse holder B -SB20-	20 A	- Fuel pressure regulating valve -N276- (BZB, CAWB, CDAA, CCZA) is dropped from May 2011	87
F20	-	Fuse 20 on fuse holder B -SB20-	15 A	- Fuel pressure regulating valve -N276- (BZB, CAWB, CDAA, CCZA) applicable from May 2011	87
F21	-	Fuse 21 on fuse holder B -SB21-	10 A	- Lambda probe heater -Z19- (BLS, BZB, CAWB, CBAB, CBAA, CAYC, CFFA, CFFB)	87
F21	-	Fuse 21 on fuse holder B -SB21-	20 A	- Vacuum pump relay -J57- (CAXC) Vacuum pump for brakes -V192- (CAXC)	87
F21	-	Fuse 21 on fuse holder B -SB21-	10 A	- Lambda probe heater -Z19- (BSE, CDAA, CCZA) Lambda probe 1 heater after catalytic converter -Z29- (BSE, CDAA, CCZA) is dropped from May 2009	87
F21	-	Fuse 21 on fuse holder B -SB21-	15 A	- Lambda probe heater -Z19- (BSE, CDAA, CCZA) Lambda probe 1 heater after catalytic converter -Z29- (BSE, CDAA, CCZA) applicable from May 2009	87
F22	-	Fuse 22 on fuse holder B -SB22-	5 A	- Clutch position sender -G476-	87
F22	-	Fuse 22 on fuse holder B -SB22-	5 A	- Brake light switch -F- Brake pedal switch -F63- applicable from May 2009	87
F23	-	Fuse 23 on fuse holder B -SB23-	5 A	- Continued coolant circulation relay -J151- (BZB, CAWB, CDAA, CCZA) Secondary air pump relay -J299- (BSE) Continued coolant circulation pump -V51- (BZB, CAWB, CDAA, CCZA)	87
			10 A	- Charge pressure control solenoid valve -N75- (BLS, CBAB, CBAA, CAYC, CFFA, CFFB) Exhaust gas recirculation cooler change-over valve -N345- (BLS, CBAB, CBAA, CAYC, CFFA, CFFB) Air mass meter -G70- (CFFA, CFFB)	
F23	-	Fuse 23 on fuse holder B -SB23-	15 A	- Fuel pressure regulating valve -N276- (CBZB, CAXC)	

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F24	-	Fuse 24 on fuse holder B -SB24-	10 A	- Radiator fan control unit -J293- Additional coolant pump relay -J496- (CAXC) Engine component current supply relay -J757- (BZB, CAWB, CDAA, CCZA) Charge pressure control solenoid valve -N75- (CAWB, BZB, CDAA, CCZA, CAXC) Activated charcoal filter system solenoid valve 1 -N80- (CAWB, BZB, BSE, CDAA, CCZA, CBZB, CAXC) Variable intake manifold change-over valve -N156- (BSE) Inlet camshaft control valve 1 -N205- (CAWB, BZB, CDAA, CCZA, CAXC) Turbocharger air recirculation valve -N249- (CAWB, BZB, CDAA, CCZA, CAXC) Intake manifold flap valve -N316- (CAWB, BZB, CDAA, CCZA, CBZB) Oil pressure control valve -N428- (CDAA, CCZA) Pump for exhaust gas recirculation cooler -V400- (CBAB, CBAA, CAYC, CFFA, CFFB)	87
F25	-	Fuse 25 on fuse holder B -SB25-	30 A	- ABS control unit -J104- (MK70 ABS Pumpe) is dropped from May 2008	30
F25	-	Fuse 25 on fuse holder B -SB25-	40 A	- ABS control unit -J104- (MK70 ABS pump and ABS valves) applicable from May 2008	30
F25		Fuse 25 on fuse holder B -SB25-	40 A	ABS control unit -J104- (MK60 ESP pump)	30
F26	-	Fuse 26 on fuse holder B -SB26-	30 A	- Onboard supply control unit -J519- Left side light supply, left main beam, left dipped beam, left turn signal, left fog light	30
F27	-	Fuse 27 on fuse holder B -SB27-	50 A	- Automatic glow period control unit -J179- Glow plug 1 -Q10- Glow plug 2 -Q11- Glow plug 3 -Q12- Glow plug 4 -Q13- for models with engine codes BLS, CBAB, CBAA, CAYC, CFFA, CFFB only	87
F27	-	Fuse 27 on fuse holder B -SB27-	40 A	- Secondary air pump motor -V101- (BSE)	87
F28	-	Fuse 28 on fuse holder B -SB28-	40 A	- Convertible roof actuation control unit -J256- (hydraulic pump)	30
F29	-	Fuse 29 on fuse holder B -SB29-	50 A	- B300 Positive connection 4 (30), in main wiring harness Supply for the fuses: -SC32- up to -SC37- , -SC39- , -SC44- , -SC45- , -SC48- , -S131-	30
F30	-	Fuse 30 on fuse holder B -SB30-	50 A	- Terminal 15 voltage supply relay 2 -J681- Supply for the fuses: -SC1- up to -SC6- , -SC29- up to -SC31- , -SC40- up to -SC42- , -SC46- , -SC47- , -SC49-	30

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1.8 Location fuse holder C -SC- , under left dash panel

1.8.1 Fuse colours

50 A - red

40 A - orange

30 A - light-green

25 A - natural (white)

20 A - yellow

15 A - light blue

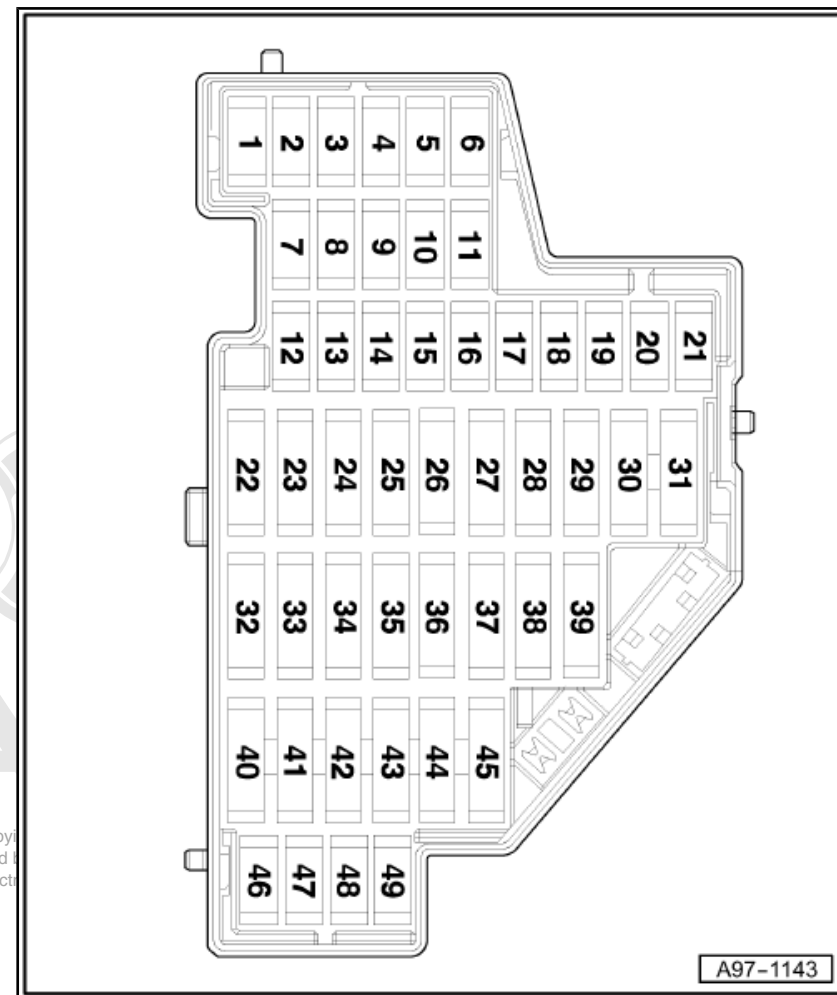
10 A - red

7.5 A - brown

5 A - light-brown

3 A - purple

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1.9 Position of fuses, fuse holder

No.	Current Flow Diagram designation	Nominal value	Function/component	Terminal
1	- Fuse 1 on fuse holder C -SC1-	10 A	- Lighting switch -E1- Headlight range control regulator -E102- Air mass meter -G70- (BLS, BZB, CAWB, CDAA, CCZA, CAYC) Trailer detector control unit -J345- Headlight range control unit -J431- Heater element for crankcase breather -N79- (BLS, CBAB, CBAA, BSE, CAYC, CFFA, CFFB) 16-pin connector -T16- (diagnostic connector) Left headlight range control motor -V48- Right headlight range control motor -V49-	15
1	- Fuse 1 on fuse holder C -SC1-	10 A	- Air mass meter -G70- (CBAB, CBAA)	15
1	- Fuse 1 on fuse holder C -SC1-	10 A	- Stop/start system button -E693- only models with stop/start system no longer fitted, phased from model year 2010	15
2	- Fuse 2 on fuse holder C -SC2-	10 A	- Engine control units -J...- Tiptronic switch -F189- Fuel pump relay -J17- (BSE) ABS control unit -J104- Current supply relay for Simos control unit -J363- (BSE) Power steering control unit -J500- Data bus diagnostic interface -J533- Fuel pump control unit -J538- (BZB, CAWB, CDAA, CCZA, CBZB, CAXC) Selector lever sensors control unit -J587- Mechatronic unit for dual clutch gearbox -J743-	15
2	- Fuse 2 on fuse holder C -SC2-	10 A	- Brake light switch -F- Brake pedal switch -F63- is dropped from May 2009	15
2	- Fuse 2 on fuse holder C -SC2-	10 A	- Starter relay 1 -J906- Starter relay 2 -J907- Automatic anti-dazzle interior mirror relay -J910- applicable from May 2009	15
3	- Fuse 3 on fuse holder C -SC3-	5 A	- Airbag control unit -J234- Front passenger side airbag deactivated warning lamp -K145-	15

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4	- Fuse 4 on fuse holder C -SC4-	5 A	- Heated rear left seat switch with regulator -E128- Heated rear right seat switch with regulator -E129- Tyre pressure monitor button -E226- TCS and ESP button -E256- Garage door operating unit -E284- Reversing light switch -F4- High-pressure sender -G65- Air quality sensor -G238- Oil level and oil temperature sender -G266- Heater control unit -J162- Climatronic control unit -J255- Air conditioning system control unit -J301- Navigation system with CD drive control unit -J401- Parking aid control unit -J446- Garage door operation control unit -J530- Driver seat heating control unit -J726- Front passenger seat heating control unit -J727- Left washer jet heater element -Z20- Right washer jet heater element -Z21-	15
4	- Fuse 4 on fuse holder C -SC4-	5 A	- Automatic anti-dazzle interior mirror -Y7- only models without stop/start system applicable from May 2009	15
4	- Fuse 4 on fuse holder C -SC4-	5 A	- Voltage stabiliser -J532- only models with stop/start system applicable from May 2009	15
4	- Fuse 4 on fuse holder C -SC4-	5 A	- Stop/start system button -E693- only models with stop/start system Gradual introduction during model year 2010	15
5	- Fuse 5 on fuse holder C -SC5-	5 A	- Power output module for left headlight -J667-	15
6	- Fuse 6 on fuse holder C -SC6-	5 A	- Power output module for right headlight -J668-	15
7	- Not assigned	-	-	-
8	- Fuse 8 on fuse holder C -SC8-	5 A	- Control unit in dash panel insert -J285- applicable from May 2009	30
9	- Fuse 9 on fuse holder C -SC9-	15 A	- Navigation operating electronics control unit -J402- (RNS-E) Control unit with display for radio and navigation system -J503- (RNS low) Radio -R- 8-pin connector -T8- (preparation for radio supply) applicable from May 2009	30
10	- Fuse 10 on fuse holder C -SC10-	7.5 A	- Telephone transmitter and receiver unit -R36- Connection for external audio sources -R199- 18-pin connector -T18a- (VDA interface) applicable from May 2009	30

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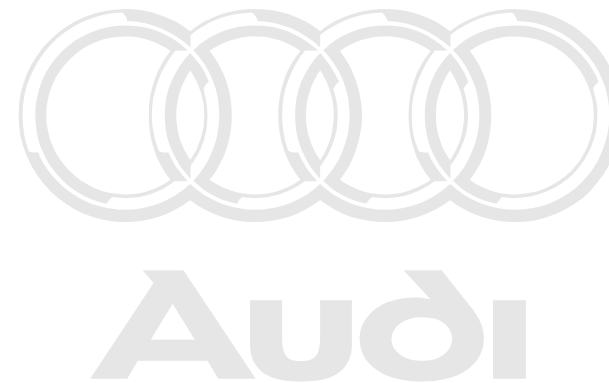


11	- Fuse 11 on fuse holder C -SC11-	10 A	- Automatic anti-dazzle interior mirror relay -J910- Automatic anti-dazzle interior mirror -Y7- only models with stop/start system applicable from May 2009	30
12	- Fuse 12 on fuse holder C -SC12-	10 A	- Driver door control unit -J386- Front passenger door control unit -J387-	30
13	- Fuse 13 on fuse holder C -SC13-	10 A	- Convenience system central control unit -J393- is dropped from May 2009	30
14	- Fuse 14 on fuse holder C -SC14-	10 A	- ABS control unit -J104- (MK60 with hydraulic brake servo) Selector lever sensors control unit -J587-	30
15	- Fuse 15 on fuse holder C -SC15-	10 A	- Front interior light -W1-	30
16	- Fuse 16 on fuse holder C -SC16-	10 A	- Rain and light sensor -G397- Heater control unit -J162- Climatronic control unit -J255- Air conditioning system control unit -J301- Remote control receiver for auxiliary heater -R64- 16-pin connector -T16- (diagnostic connector)	30
16	- Fuse 16 on fuse holder C -SC16-	10 A	- Lighting switch -E1- applicable from May 2009	30
17	- Fuse 17 on fuse holder C -SC17-	5 A	- Interior monitoring sensor -G273- Alarm horn -H12-	30
18	- Fuse 18 on fuse holder C -SC18-	5 A	- Onboard supply control unit -J519- (diagnostic cable) Voltage stabiliser -J532- (diagnosis wiring) Engine control unit -J623- (diagnostic cable) only models with stop/start system applicable from May 2009	50
19	- Not assigned	-	-	-
20	- Not assigned	-	-	-
21	- Not assigned	-	-	-
22	- Fuse 22 on fuse holder C -SC22-	40 A	- Fresh air blower control unit -J126- Fresh air blower -V2-	30
23	- Fuse 23 on fuse holder C -SC23-	30 A	- Driver side window regulator motor -V147-	30
24	- Fuse 24 on fuse holder C -SC24-	20 A	- Cigarette lighter -U1-	30
25	- Fuse 25 on fuse holder C -SC25-	30 A	- Heated rear window -Z1-	30
26	- Fuse 26 on fuse holder C -SC26-	20 A	- Socket -U- (in luggage compartment)	30
27	- Fuse 27 on fuse holder C -SC27-	15 A	- Fuel system pressurisation pump -G6- Fuel pump relay -J17- (BLS, CBAB, CBAA, BSE, CAYC, CFFA, CFFB) Electric fuel pump 2 relay -J49- (BSE) Fuel pump control unit -J538- (BZB, CAWB, CDAA, CCZA, CBZB, CAXC)	30
27	- Fuse 27 on fuse holder C -SC27-	15 A	- Electric fuel pump 2 relay -J49- (BLS, CBAB, CBAA, CAYC, CFFA, CFFB) for models with auxiliary heating only	30



27	- Fuse 27 on fuse holder C -SC27-	15 A	- Relay for supplementary fuel pump -J832- (CBAB, CBAA, CFFA, CFFB) Supplementary fuel pump -V393- (CBAB, CBAA, CFFA, CFFB)	30
28	- Fuse 28 on fuse holder C -SC28-	30 A	- Rear left window regulator motor -V26- Rear right window regulator motor -V27-)	30
29	- Not assigned	-	-	-
30	- Not assigned	-	-	-
31	- Fuse 31 on fuse holder C -SC31-	20	- Vacuum pump relay -J57- (BSE) Vacuum pump for brakes -V192- (BSE)	15
32	- Fuse 32 on fuse holder C -SC32-	30 A	- Headlight washer system pump -V11-	30
33	- Fuse 33 on fuse holder C -SC33-	25 A	- Convertible roof actuation control unit -J256-	30
34	- Fuse 34 on fuse holder C -SC34-	20 A	- Heated rear left seat control unit -J215- Heated rear right seat control unit -J216-	30
35	- Not assigned	-	-	-
36	- Fuse 36 on fuse holder C -SC36-	10 A	- Driver seat lumbar support adjustment switch -E176- Front passenger seat lumbar support adjustment switch -E177-	30
37	- Fuse 37 on fuse holder C -SC37-	20 A	- Climatronic control unit -J255- (front seat heating) Driver seat heating control unit -J726- Front passenger seat heating control unit -J727-	30
38	- Fuse 38 on fuse holder C -SC38-	30 A	- Front passenger side window regulator motor -V148-	30
39	- Fuse 39 on fuse holder C -SC39-	5 A	- Interface control unit for vehicle location system -J843- (interface for special functions)	30
40	- Fuse 40 on fuse holder C -SC40-	40 A	- Starter -B-	15
41	- Not assigned	-	-	-
42	- Fuse 41 on fuse holder C -SC42-	15 A	- Washer pump -V5- is dropped from May 2009	15
43	- Fuse 43 on fuse holder C -SC43-	20 A	- Convenience system central control unit -J393- is dropped from May 2009	30
43	- Fuse 43 on fuse holder C -SC43-	20 A	- Onboard supply control unit -J519- applicable from May 2009	30
44	- Fuse 44 on fuse holder C -SC44-	20 A	- Trailer detector control unit -J345-	30
45	- Fuse 45 on fuse holder C -SC45-	20 A	- Trailer detector control unit -J345-	30
46	- Fuse 46 on fuse holder C -SC46-	10 A	- Trailer socket -U10-	15
47	- Fuse 47 on fuse holder C -SC47-	5 A	- 18-pin connector -T18a- (VDA interface)	15
47	- Fuse 47 on fuse holder C -SC47-	5 A	- Aerial amplifier for mobile telephone -R86- applicable from May 2009	15
48	- Not assigned	-	-	-
49	- Not assigned	-	-	-

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1 Relay

1.1 Overview of relay

1 -

Relay carrier on electronics box

- ☐ in left of engine compartment.
- ☐ Components: -J271- , -J299- , -J317- , -J363- , -J496- , -J757-
- ☐ Relay positions [⇒ page 2](#)

1 - Relay carrier under electronics box

- ☐ in left of engine compartment.
- ☐ Component: -J179-
- ☐ Relay positions [⇒ page 3](#)

2 -

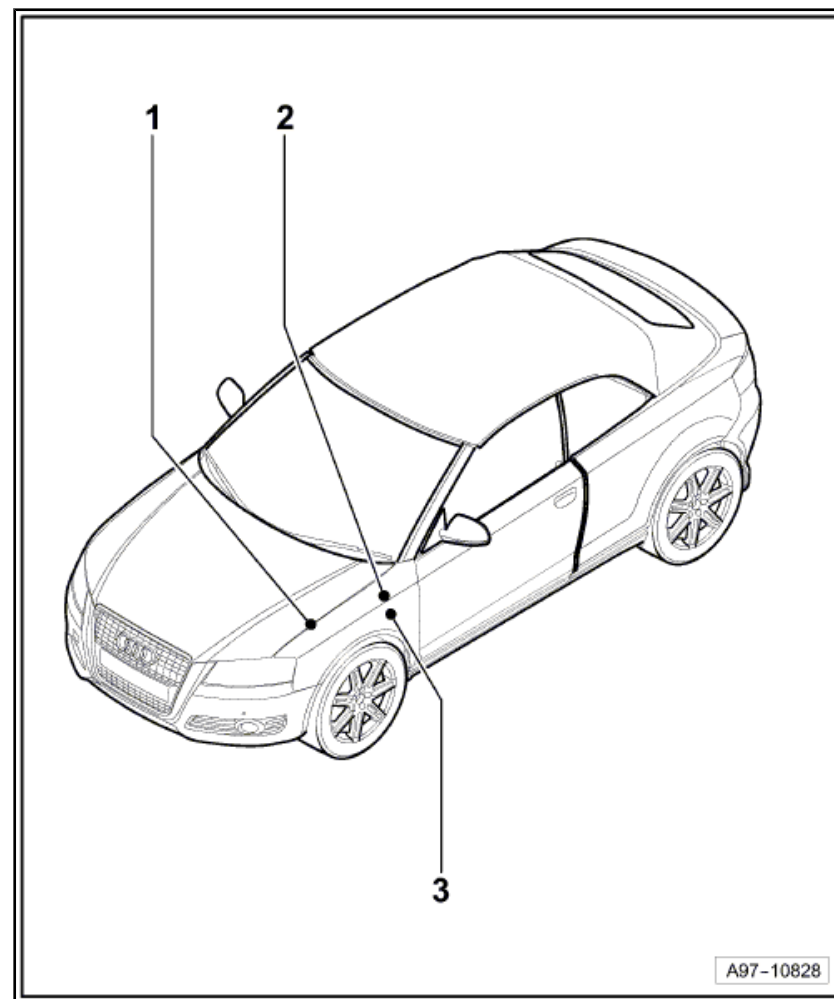
Relay carrier on left under dash panel

- ☐ Components: -J17- , -J39- , -J49- , -J151- , -J359- , -J360- , -J682- , -J832- , -J906- , -J907- , -J910-
- ☐ Relay positions [⇒ page 6](#)

3 -

Relay carrier on onboard power supply control unit

- ☐ on left under dash panel
- ☐ Components: -J9- , -J59- , -J413- , -J576- , -J681- , -J689-
- ☐ Relay assignment from March 2008 [⇒ page 4](#)
- ☐ Relay assignment, from May 2009 [⇒ page 5](#)



1.2 Relay locations on electronics box low

1 - Motronic current supply relay -J271-

- ☐ Slot A1
- ☐ for models with engine codes BZB, CAWB, CDAA, CCZA, CBZB, CAXC only

1 - Terminal 30 voltage supply relay -J317-

- ☐ Slot A1
- ☐ for models with engine codes BLS, CBAB, CBAA, CAYC, CFFA, CFFB only

1 - Current supply relay for Simos control unit -J363-

- ☐ Slot A1
- ☐ for models with engine code BSE only

2 - Wiring bridges, automatic glow period control unit -J179-

- ☐ Slot A2
- ☐ for models with engine codes BLS, CBAB, CBAA, CAYC, CFFA, CFFB only

2 - Engine components current supply relay -J757-

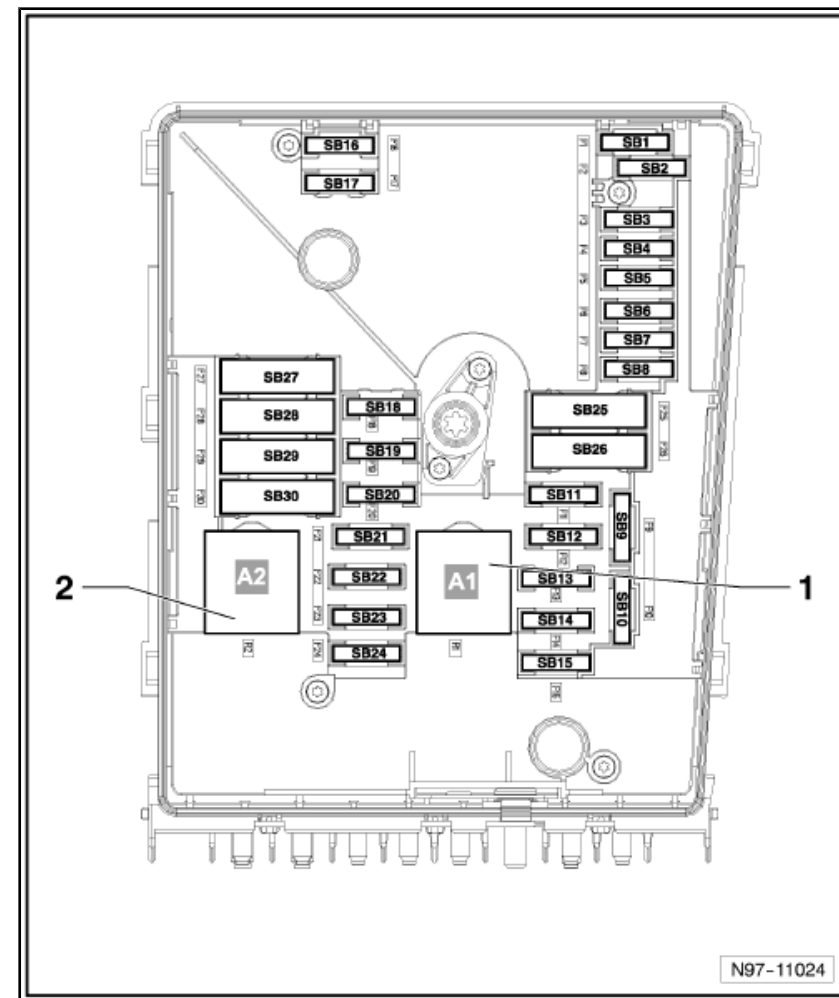
- ☐ Slot A2
- ☐ for models with engine codes BZB, CAWB, CDAA, CCZA, CBZB only

2 - Secondary air pump relay -J299-

- ☐ Slot A2
- ☐ for models with engine code BSE only

2 - Additional coolant pump relay -J496-

- ☐ Slot A2
- ☐ for models with engine code CAXC only



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1.3 Relay locations under electronics box low

1 - Relay carrier under electronics box in engine compartment,
left

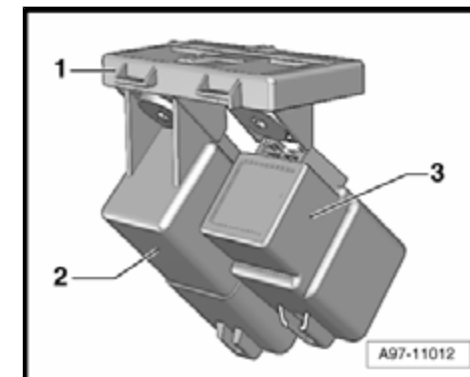
2 - Automatic glow period control unit -J179-

3 - Not assigned



Note:

The relay carrier is only visible when the electronics box is removed.



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1.4 Relay positions relay carrier on onboard supply control unit, under left dash panel, from March 2008

1 - Terminal 15 voltage supply relay 2 -J681-

❑ Slot B 1

2 - Not assigned

❑ Slot B 2

3 - Heated rear window relay -J9-

❑ Slot B 5

4 - Horn relay -J413-

❑ Slot B 6

5 - X-contact relief relay -J59-

❑ Slot B 9

6 - Washer pump relay -J576-

❑ Slot B 8

7 - Not assigned

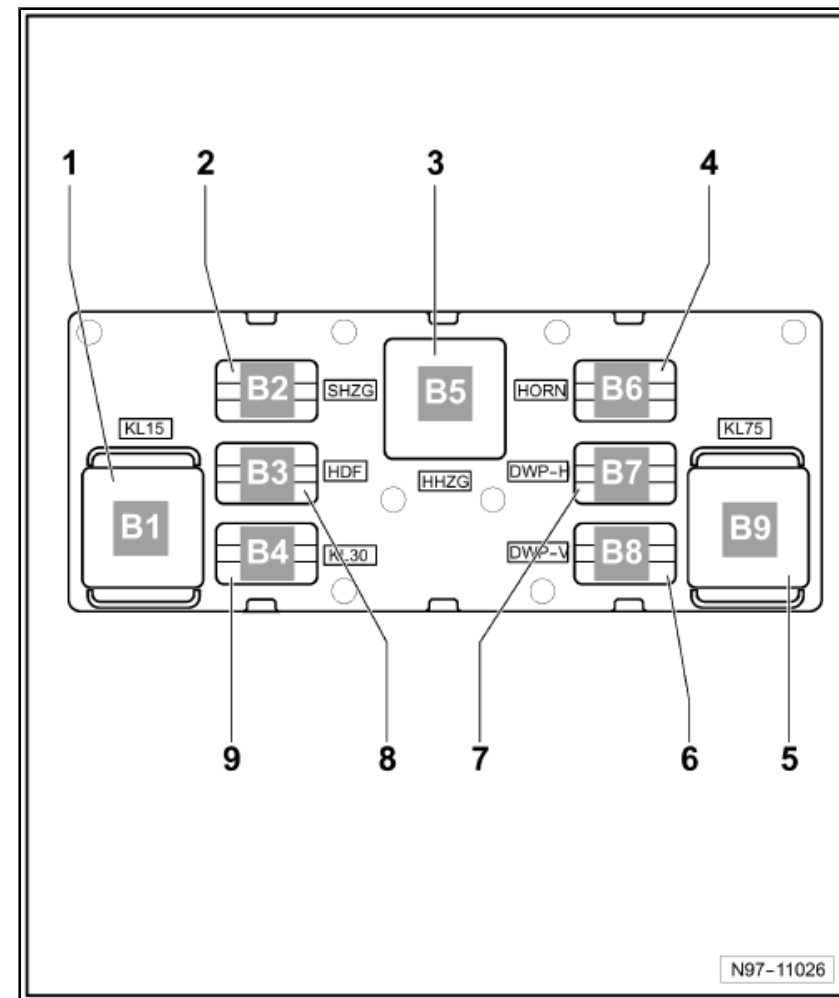
❑ Slot B 7

8 - Not assigned

❑ Slot B 3

9 - Terminal 30 voltage supply relay 2 -J689-

❑ Slot B 4



1.5 Relay positions relay carrier on onboard supply control unit, under left dash panel, from May 2009

1 - Terminal 15 voltage supply relay 2 -J681-

2 - Heated rear window relay -J9-

3 - Horn relay -J413-

3 - Headlight washer system relay -J39-

4 - X-contact relief relay -J59-

5 - High heat output relay -J360-

☐ for models with auxiliary air heating only

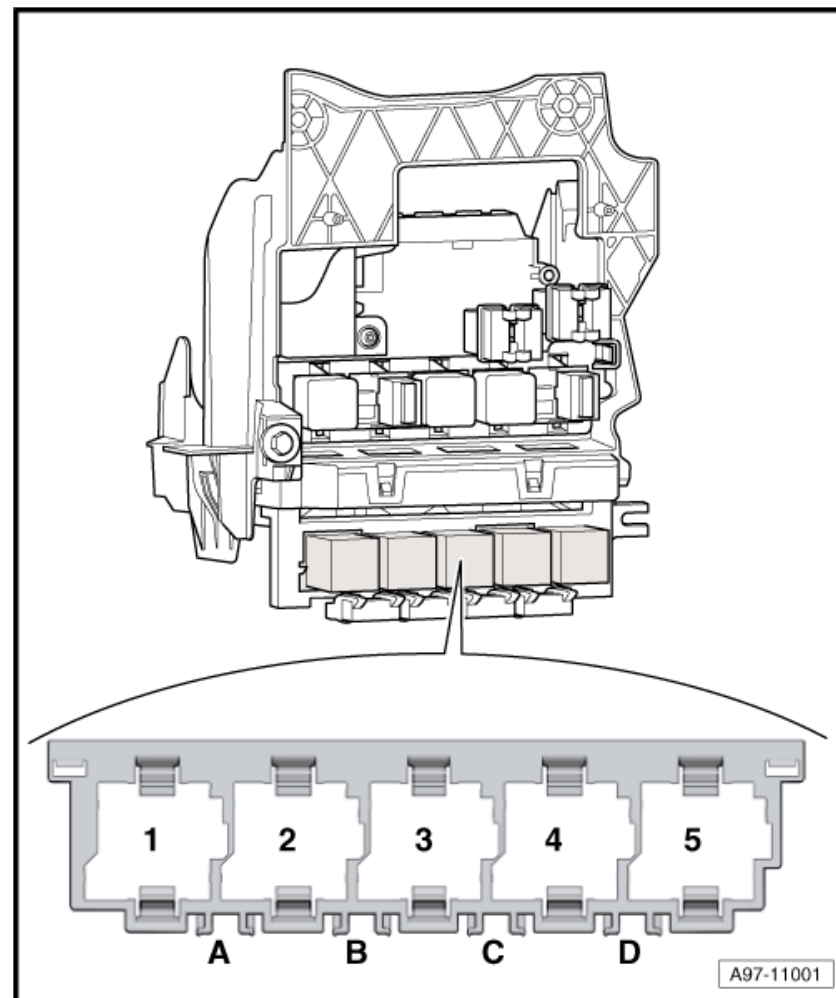


Note:

-J39- and -J413- are mini-relays and can be found on a relay slot.

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1.6 Relay positions under left dash panel

1 - Low heat output relay -J359-

- ☐ for models with auxiliary air heating only

2 - Terminal 50 voltage supply relay -J682-

- ☐ only models without stop/start system

3 - Supplementary fuel pump relay -J832-

- ☐ Slot 3.1
- ☐ for models with engine codes CBAB, CBAA only
- ☐ is dropped from May 2009
- ☐ for models from May 2009 ⇒ [page 7](#)

3 - Starter relay 1 -J906-

- ☐ Slot 3.1
- ☐ applicable from May 2009
- ☐ only models with stop/start system

3 - Headlight washer system relay -J39-

- ☐ Slot 3.2
- ☐ is dropped from May 2009
- ☐ for models from May 2009 ⇒ [page 5](#)

3 - Starter relay 2 -J907-

- ☐ Slot 3.2
- ☐ applicable from May 2009
- ☐ only models with stop/start system

4 - Fuel pump relay -J17-

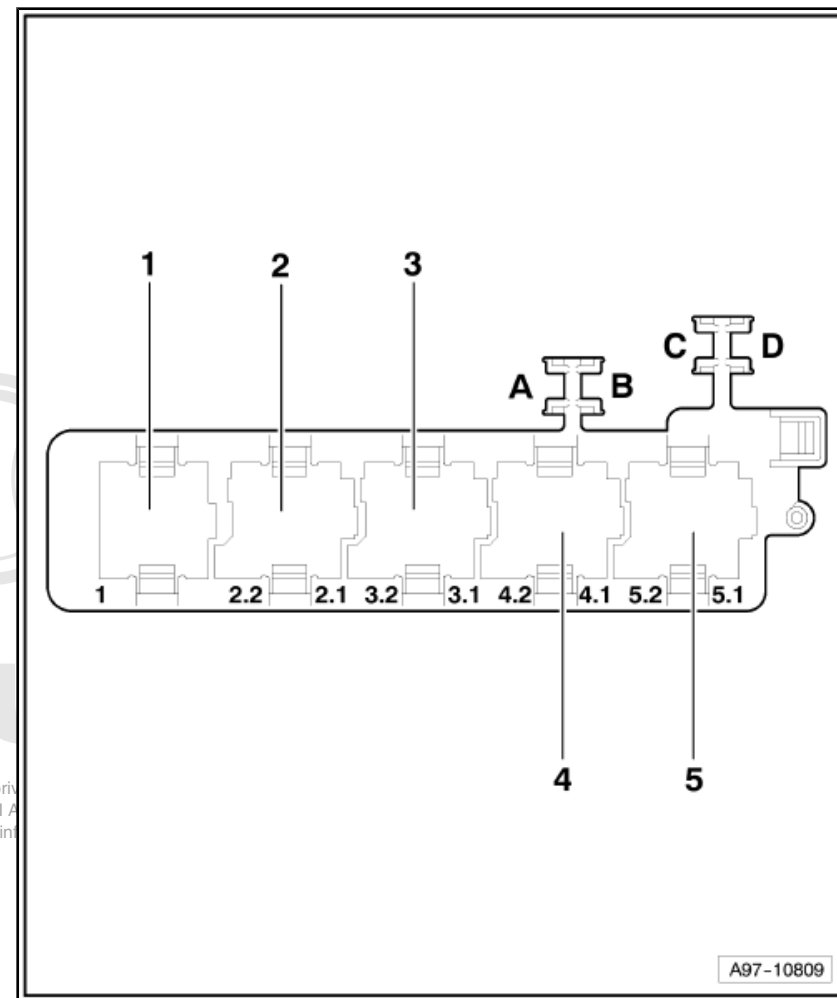
- ☐ Slot 4.1
- ☐ for models with engine codes BLS, CBAA, CBAB, CAYC, CFFA, CFFB
- ☐ for models with engine code BSE only, is dropped from May 2009

4 - Electric fuel pump 2 relay -J49-

- ☐ Slot 4.1
- ☐ for models with engine code BSE only, applicable from May 2009

4 - Continued coolant circulation relay -J151-

- ☐ Slot 4.1
- ☐ for models with engine codes BZB, CAWB, CDAA, CCZA only





4 - Electric fuel pump 2 relay -J49-

- ☐ Slot 4.2
- ☐ for models with auxiliary heater and engine codes BLS, CBAA, CBAB, CAYC, CFFA, CFFB only
- ☐ for models with engine code BSE only, is dropped from May 2009

4 - Fuel pump relay -J17-

- ☐ Slot 4.2
- ☐ for models with engine code BSE only, applicable from May 2009

5 - High heat output relay -J360-

- ☐ for models with auxiliary air heating only
- ☐ is dropped from May 2009
- ☐ for models from May 2009 ⇒ [page 5](#)

5 - Automatic anti-dazzle interior mirror relay -J910-

- ☐ Slot 5.1
- ☐ applicable from May 2009

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5 - Supplementary fuel pump relay -J832-

- ☐ Slot 5.2
- ☐ for models with engine codes CBAB, CBAA, CFFA, CFFB only
- ☐ applicable from May 2009

1 Control units in front part of vehicle

1.1 Overview of control units

1 - Wiper motor control unit -J400-

- ☐ Location ⇒ [page 3](#)

1 - Battery monitor control unit -J367-

- ☐ for models with battery in engine compartment only
- ☐ Location ⇒ [page 2](#)

2 - Mechatronic unit for dual clutch gearbox -J743-

- ☐ Location for dual clutch gearbox (02E) ⇒ [page 3](#)
- ☐ Location for dual clutch gearbox (0AM) ⇒ [page 5](#)
- ☐ Connector assignment for dual clutch gearbox (02E) ⇒ [page 4](#)
- ☐ Connector assignment for dual clutch gearbox (0AM) ⇒ [page 6](#)

3 - Power steering control unit -J500-

- ☐ Location ⇒ [page 7](#)
- ☐ Connector assignment ⇒ [page 8](#)

4 - Left gas discharge light control unit -J343-

- ☐ Location ⇒ [page 9](#)

4 - Power output module for left headlight -J667-

- ☐ in headlight

5 - Garage door operation control unit -J530-

- ☐ Location ⇒ [page 9](#)
- ☐ Connector assignment ⇒ [page 10](#)

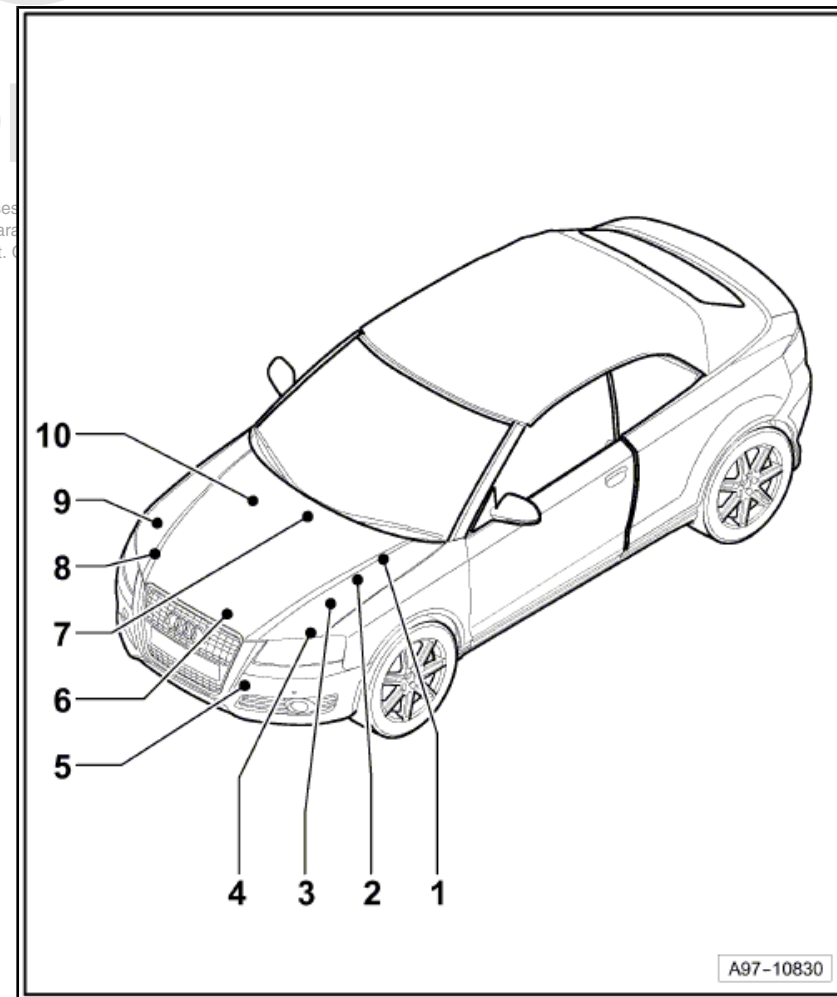
6 - Radiator fan control unit -J293-

- ☐ Location ⇒ [page 11](#)

7 - Engine control unit -J623-

- ☐ Location ⇒ [page 11](#)
- ☐ Connector assignment, 121 pin ⇒ [page 12](#)
- ☐ Connector assignment, 154 pin ⇒ [page 13](#)

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A97-10830

8 - Right gas discharge light control unit -J344-

- ☐ Location ⇒ [page 9](#)

8 -

Power output module for right headlight -J668-

- ☐ in headlight

9 - Auxiliary heater control unit -J364-

- ☐ under the longitudinal member on front right
- ☐ Connector assignment ⇒ [page 17](#)

10 - ABS control unit -J104-

- ☐ Location ⇒ [page 14](#)
- ☐ Connector assignment, 47 pin ⇒ [page 15](#)
- ☐ Connector assignment, 26 pin ⇒ [page 16](#)

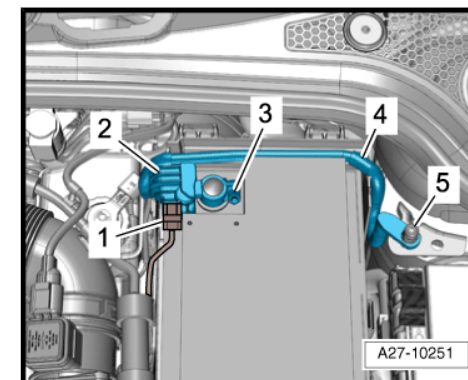
1.2 Battery monitor control unit -J367-

1.2.1 Location:

on battery -2- in left of engine compartment



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1.3 Wiper motor control unit -J400-

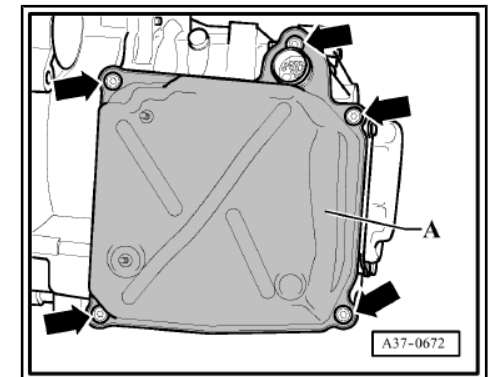
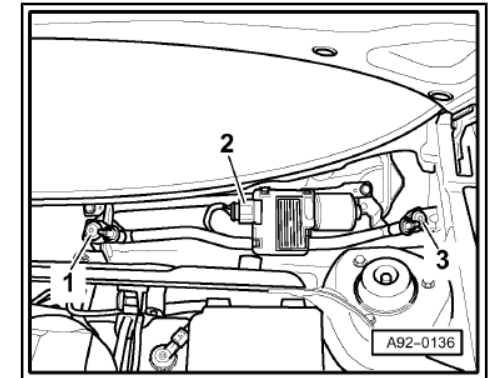
1.3.1 Location:

in plenum chamber at windscreen wiper motor -V-

1.4 Mechatronic unit for dual clutch gearbox -J743-

1.4.1 Location:

on gearbox



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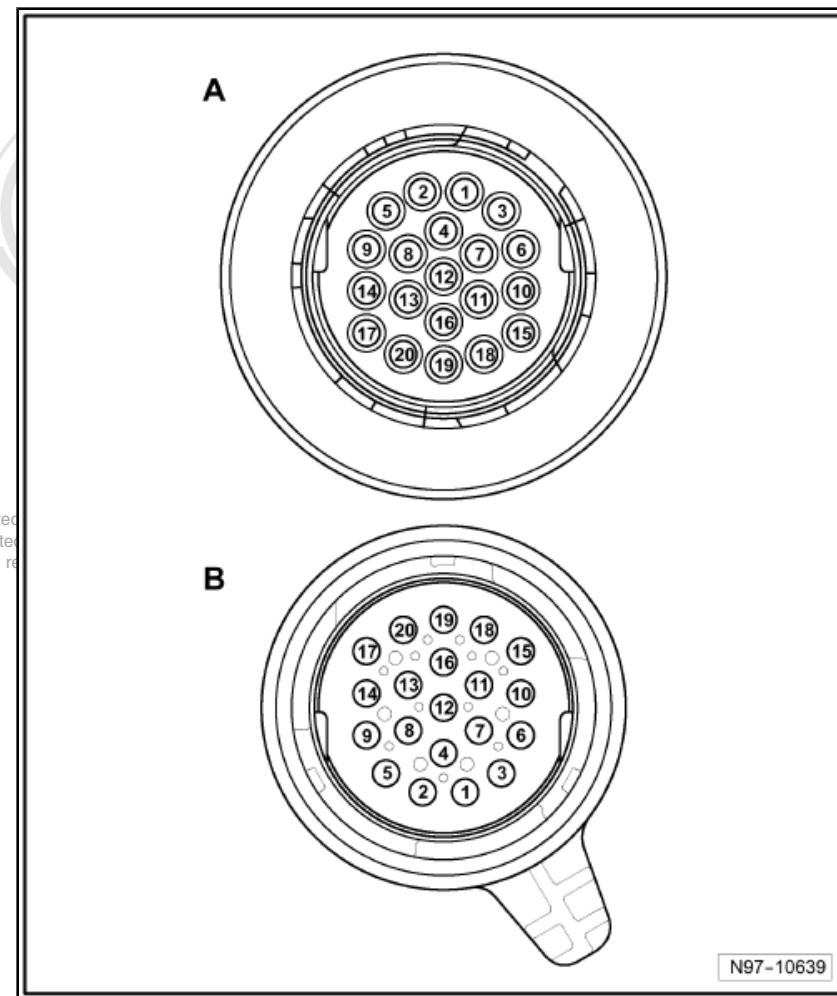
1.4.2 Connector assignment.

A - Mechatronic unit for dual clutch gearbox -J743-

Pin connector:

B - 20-pin connector -T20e-

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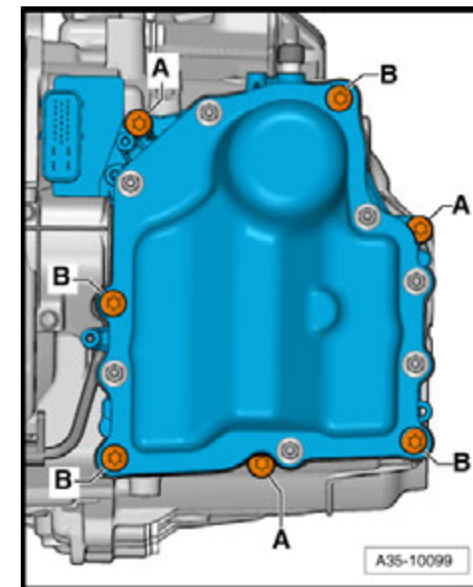
1.5 Mechatronic unit for dual clutch gearbox -J743-

1.5.1 Location:

on gearbox



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1.5.2 Connector assignment.

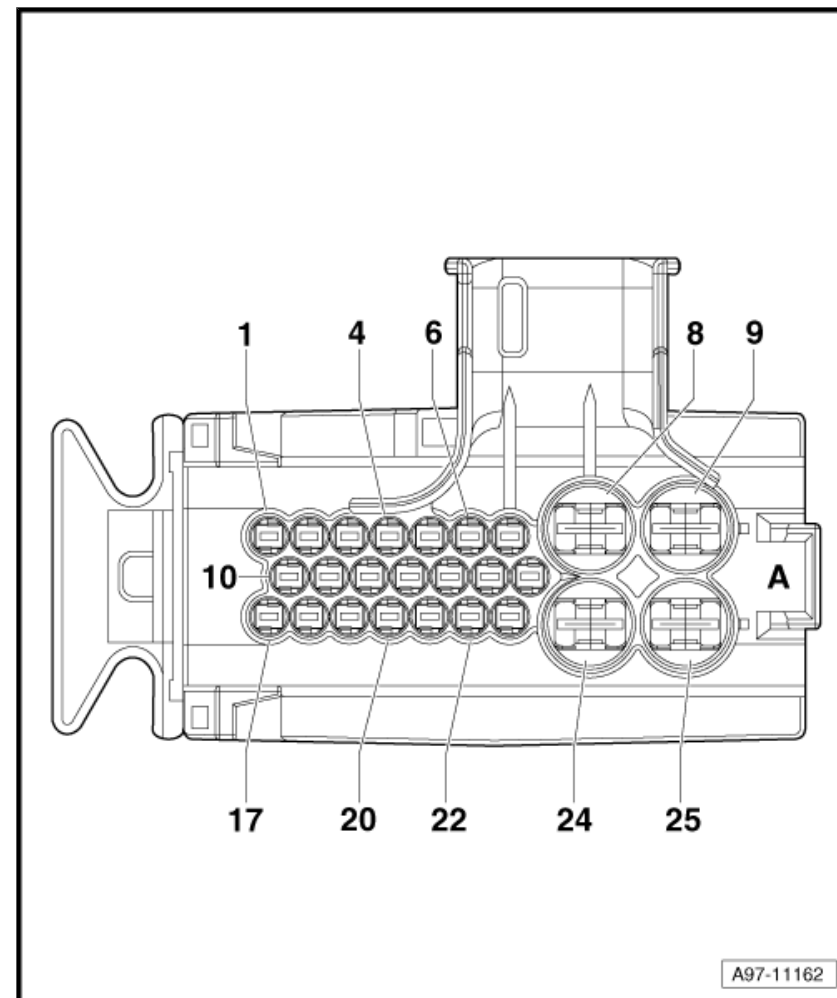
- Mechatronic unit for dual clutch gearbox -J743-

Pin connector:

A - 25-pin connector -T25-

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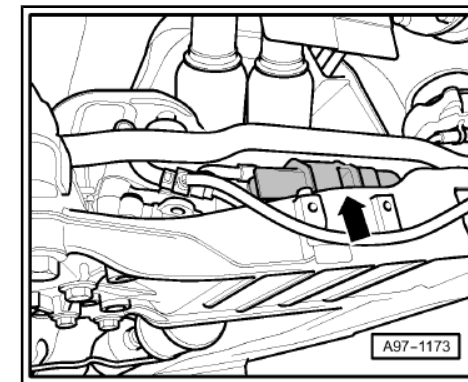




1.6 Power steering control unit -J500-

1.6.1 Location:

on steering box -arrow-



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1.6.2 Connector assignment.

A - Power steering control unit -J500-

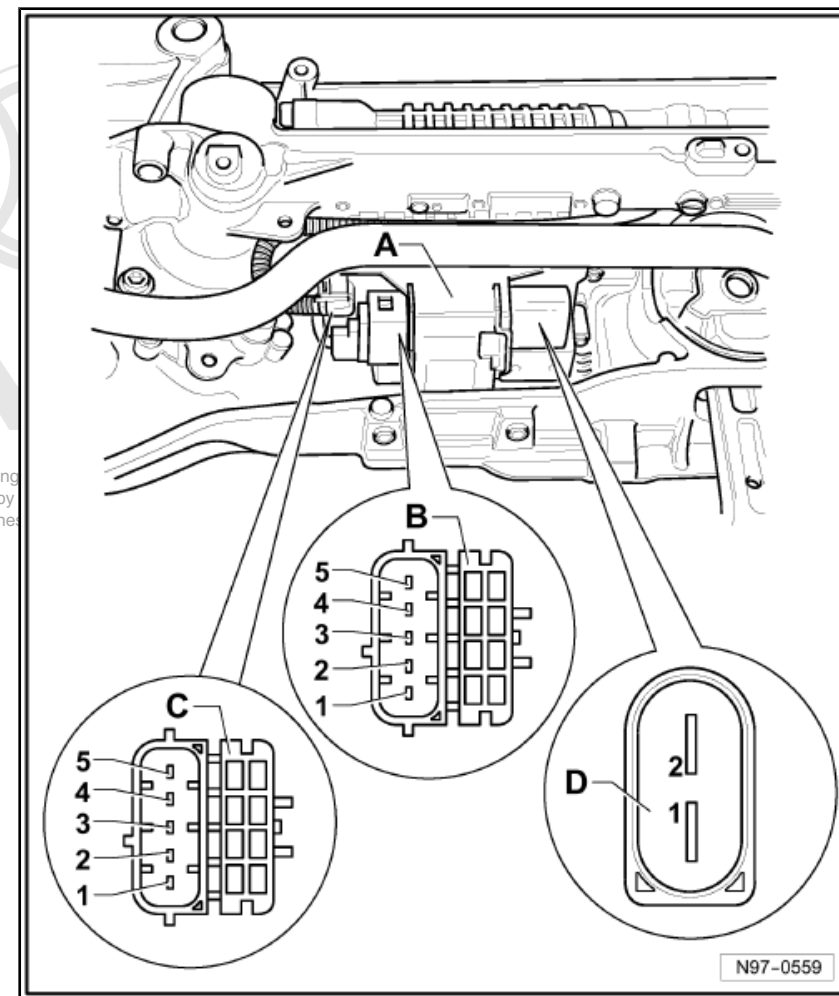
Pin connector:

B - 5-pin connector -T5-

C - 5-pin connector -T5a-

D - 2-pin connector -T2a-

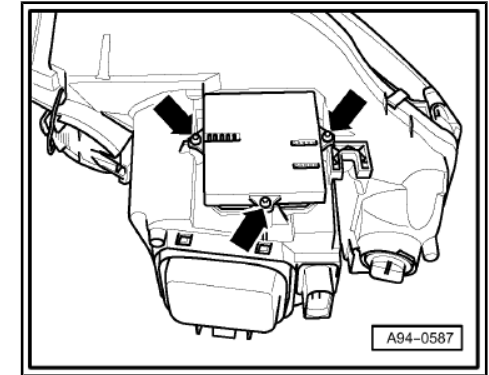
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1.7 Left gas discharge light control unit -J343- / Right gas discharge light control unit -J344-

1.7.1 Location:

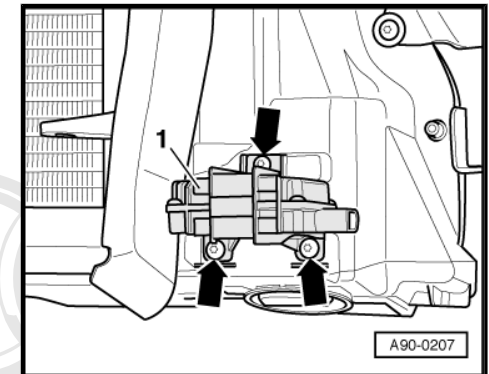
on headlight housing



1.8 Garage door operation control unit -J530-

1.8.1 Location:

1 - under front bumper



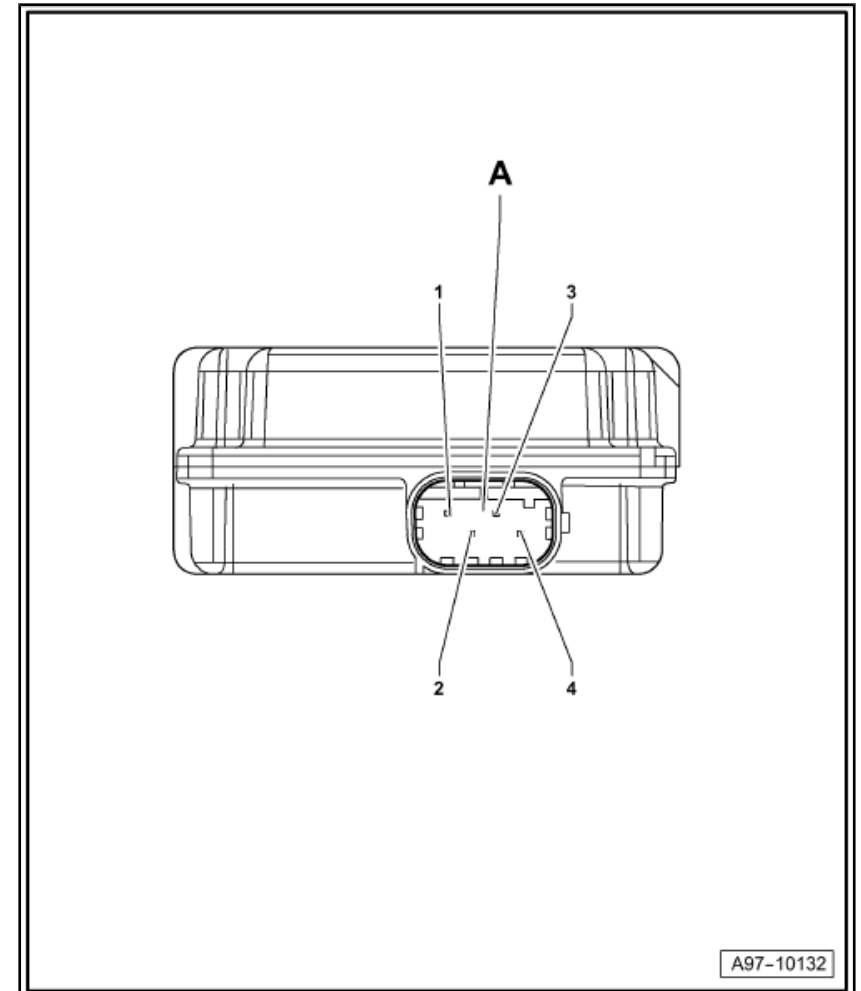
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1.8.2 Connector assignment.

- Garage door operation control unit -J530-

Pin connector:

A - 4-pin connector -T4ak-



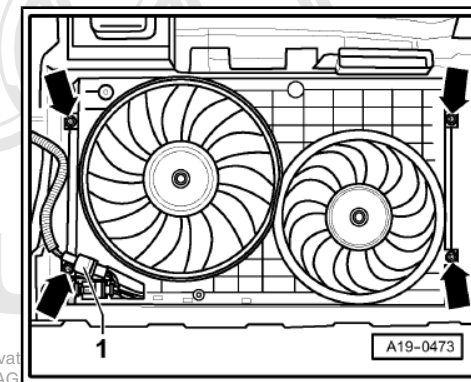
A97-10132

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1.9 Radiator fan control unit -J293-

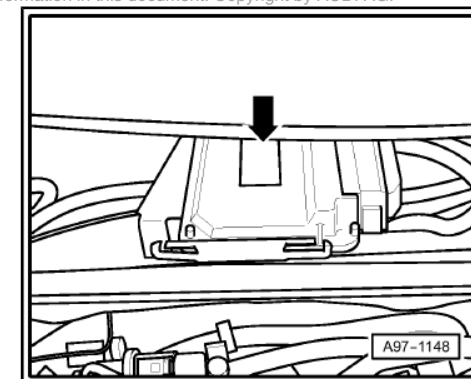
1.9.1 Location:

on motor for radiator fan -V7-



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1.10 Engine control unit -J623-



1.10.1 Location:

central in plenum chamber -arrow-

1.10.2 Connector assignment, 121 pin:

A - Engine control unit -J623-

Pin connector:

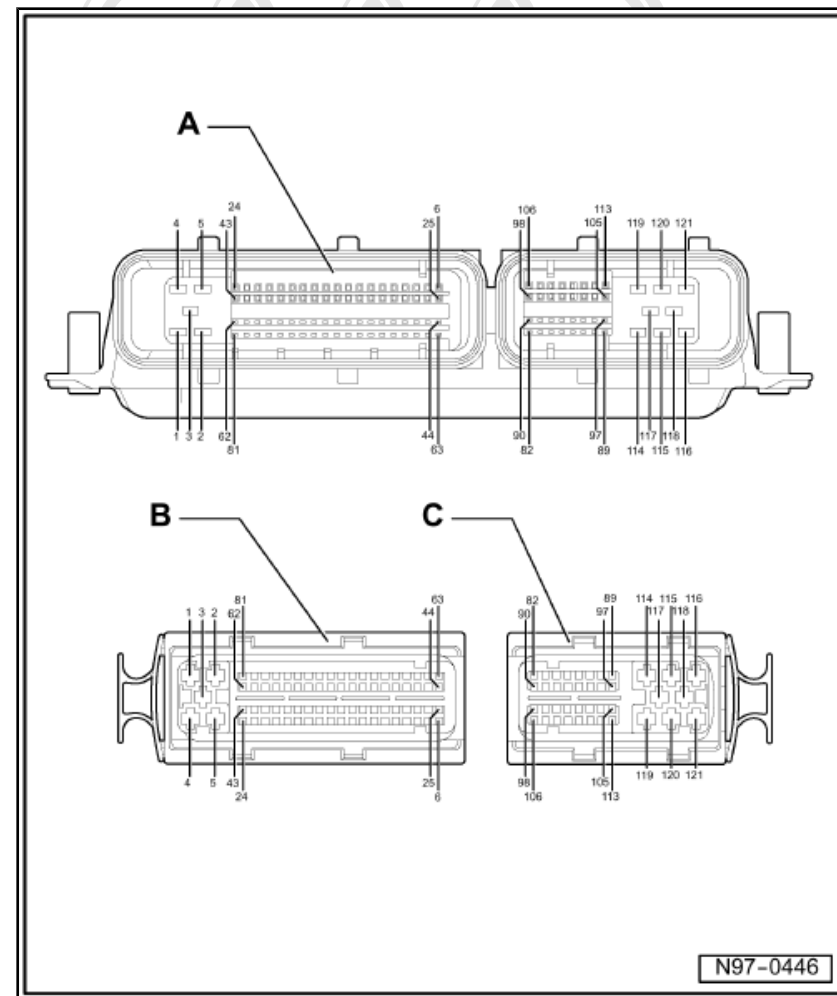
B - 81-pin connector -T81-

C - 40-pin connector -T40-



Note

-T121- is made up of items B and C.



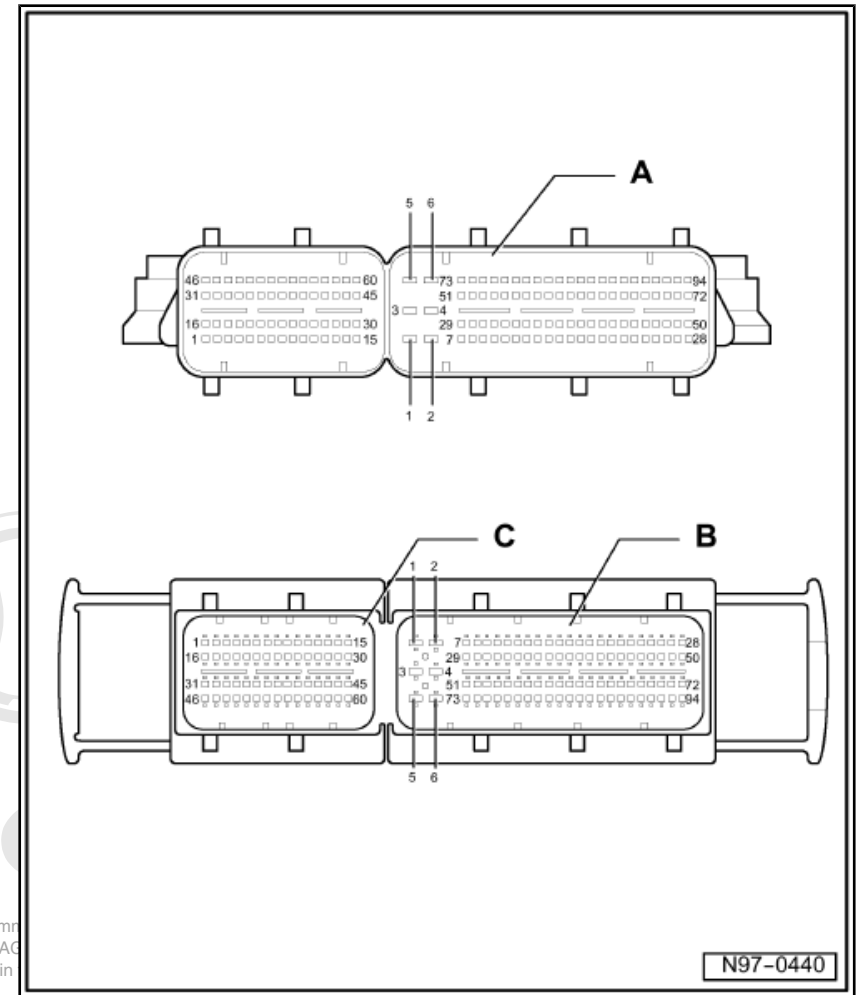
1.10.3 Connector assignment, 154 pin:

A - Engine control unit -J623-

Pin connector:

B - 94-pin connector -T94-

C - 60-pin connector -T60-

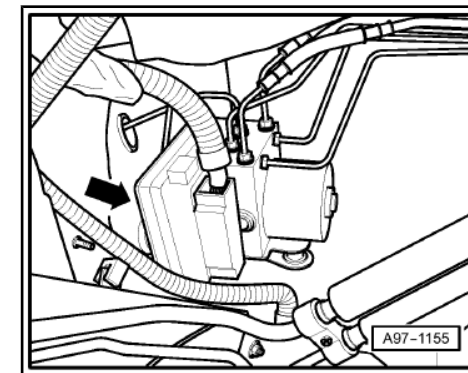




1.11 ABS control unit -J104-

1.11.1 Location:

On bulkhead, in engine compartment, right -arrow-



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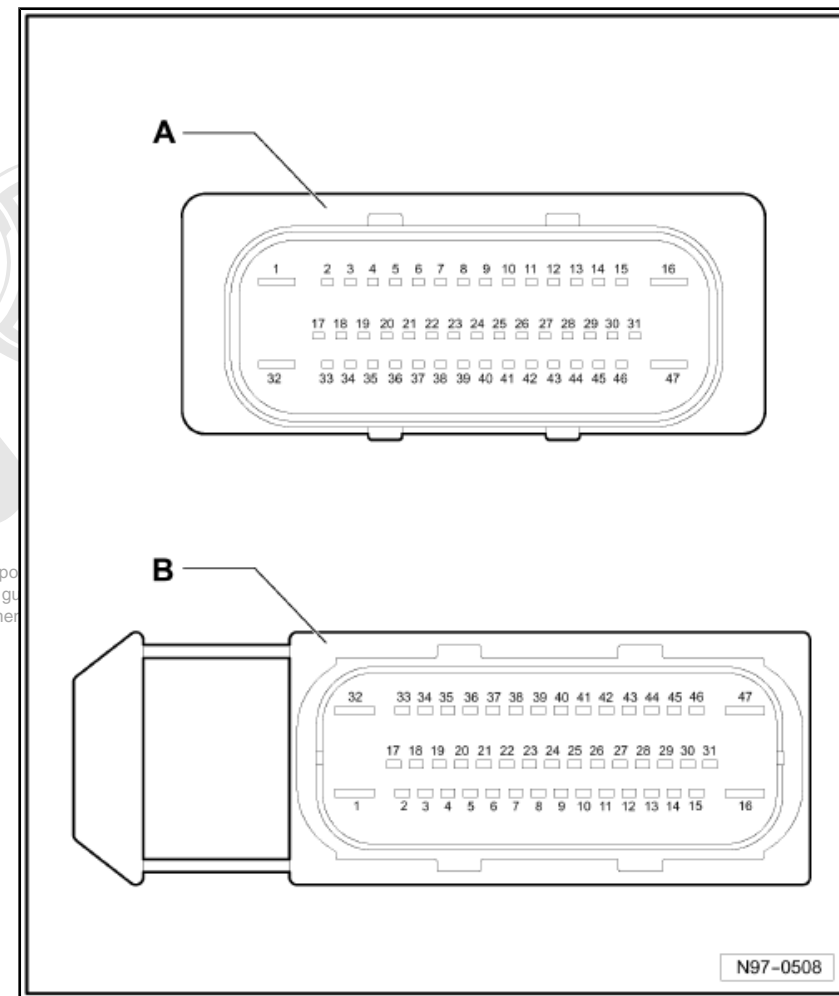
1.11.2 Connector assignment:

A - ABS control unit (MK60) -J104-

Pin connector:

B - 47-pin connector

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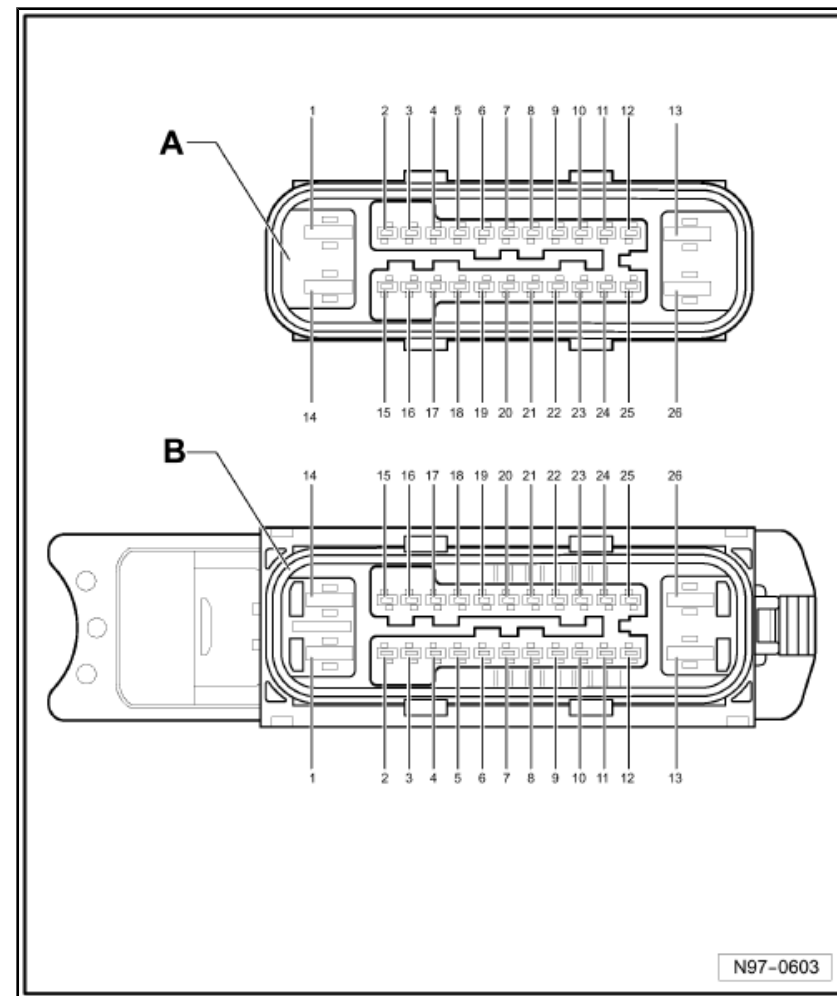


1.11.3 Connector assignment:

A - ABS control unit (MK70) -J104-

Pin connector:

B - 26-pin connector



1.12 Auxiliary heater control unit -J364-

1.12.1 Connector assignment.

1 - Auxiliary heater control unit -J364-

Pin connector:

2 - 2-pin connector -T2v-

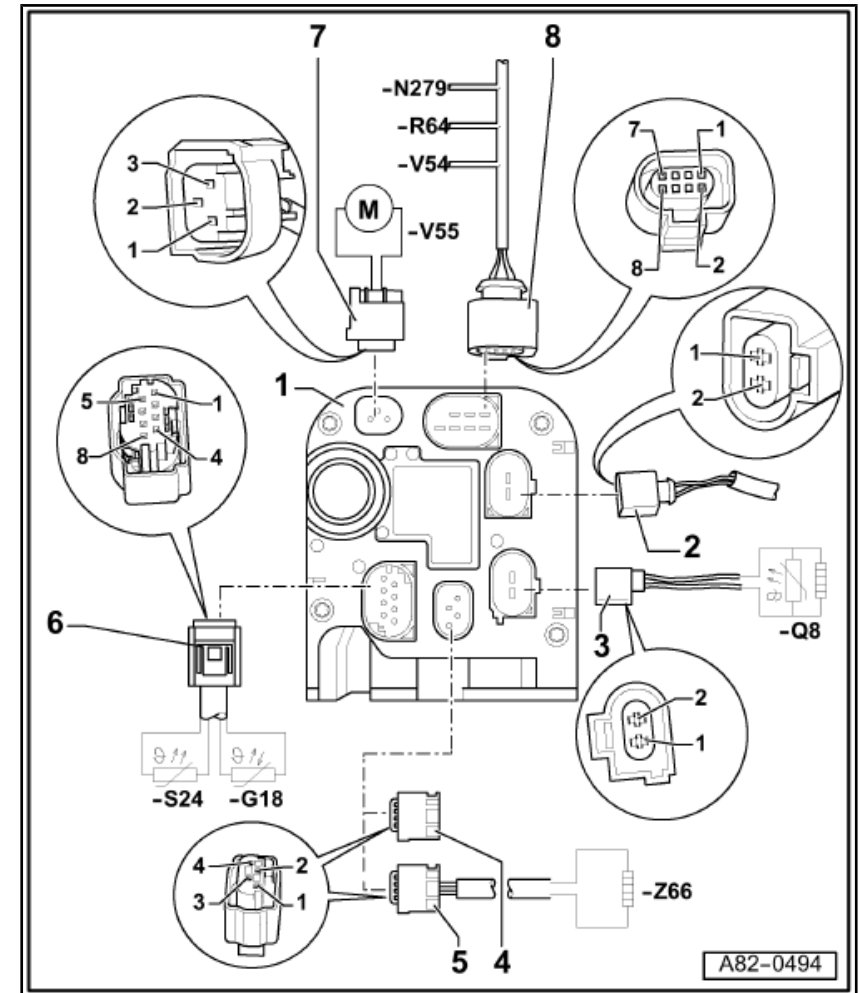
3 - 2-pin connector -T2x-

5 - 4-pin connector -T4u-

6 - 8-pin connector -T8r-

7 - 3-pin connector -T3j-

8 - 8-pin connector -T8q-



1 Control units in interior of vehicle

1.1 Overview of control units

1 - Headlight range control, control unit -J431-

- ☐ Location ⇒ [page 3](#)
- ☐ Connector assignment ⇒ [page 4](#)

2 - Front passenger seat heating control unit -J727-

- ☐ Location ⇒ [page 5](#)
- ☐ Connector assignment ⇒ [page 6](#)

3 - Control unit in dash panel insert -J285-

- ☐ Location ⇒ [page 7](#)
- ☐ Connector assignment ⇒ [page 8](#)

4 - Fuel pump control unit -J538-

- ☐ Location ⇒ [page 8](#)
- ☐ Connector assignment ⇒ [page 10](#)

5 - Driver seat heating control unit -J726-

- ☐ Location ⇒ [page 11](#)
- ☐ Connector assignment ⇒ [page 12](#)

5 - Voltage stabiliser -J532-

- ☐ Location ⇒ [page 31](#)
- ☐ Connector assignment ⇒ [page 32](#)

6 - Steering column electronics control unit -J527-

- ☐ Location ⇒ [page 13](#)
- ☐ Connector assignment ⇒ [page 14](#)

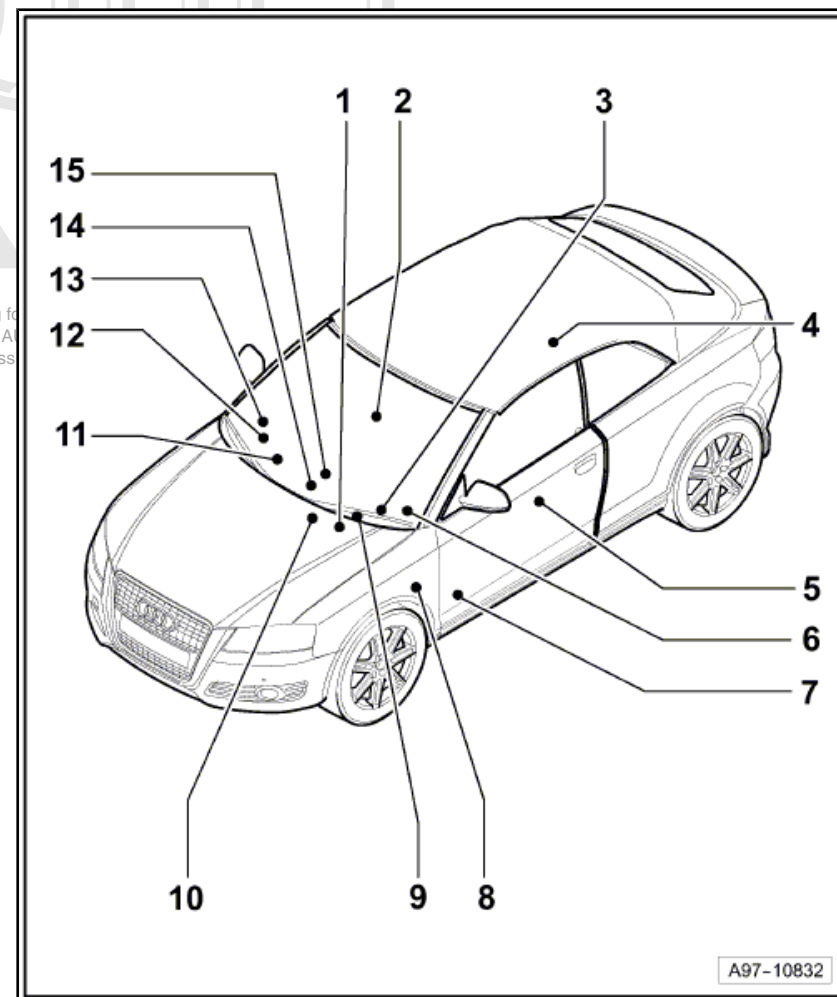
7 - Driver door control unit -J386-

- ☐ Location ⇒ [page 15](#)
- ☐ Connector assignment ⇒ [page 16](#)

8 - Onboard supply control unit -J519-

- ☐ Location from March 2008 ⇒ [page 17](#)
- ☐ Location from May 2009 ⇒ [page 19](#)
- ☐ Connector assignment from March 2008 ⇒ [page 18](#)
- ☐ Connector assignment from May 2009 ⇒ [page 20](#)

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**9 - Heater control unit -J65- /
-J162-**

- ☐ Location ⇒ [page 21](#)

**9 -
Climatronic control unit -J255-**

- ☐ Location ⇒ [page 21](#)
- ☐ Connector assignment ⇒ [page 22](#)

10 - Data bus diagnostic interface -J533-

- ☐ Location ⇒ [page 23](#)
- ☐ Connector assignment ⇒ [page 24](#)

11 - CD changer -R41-

- ☐ Location ⇒ [page 31](#)

**11 -
Connection for external audio source -R199-**

- ☐ Location ⇒ [page 29](#)
- ☐ Connector assignment ⇒ [page 29](#)

12 - Fresh air blower control unit -J126-

- ☐ Location ⇒ [page 25](#)

13 - Front passenger door control unit -J387-

- ☐ Location ⇒ [page 25](#)
- ☐ Connector assignment ⇒ [page 26](#)

14 - Airbag control unit -J234-

- ☐ Location ⇒ [page 27](#)
- ☐ Connector assignment ⇒ [page 28](#)

**15 - Radio -R- /
Control unit with display for radio and navigation system -J503-**

- ☐ Location ⇒ [page 30](#)

**15 -
Navigation operating electronics control unit -J402-**

- ☐ Location ⇒ [page 30](#)



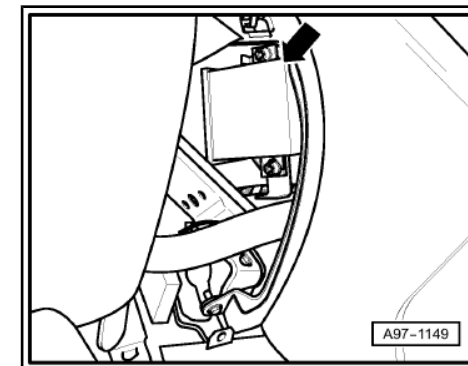
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1.2 Headlight range control, control unit -J431-

1.2.1 Location:

Below the dash panel on right, on left centre console -arrow-



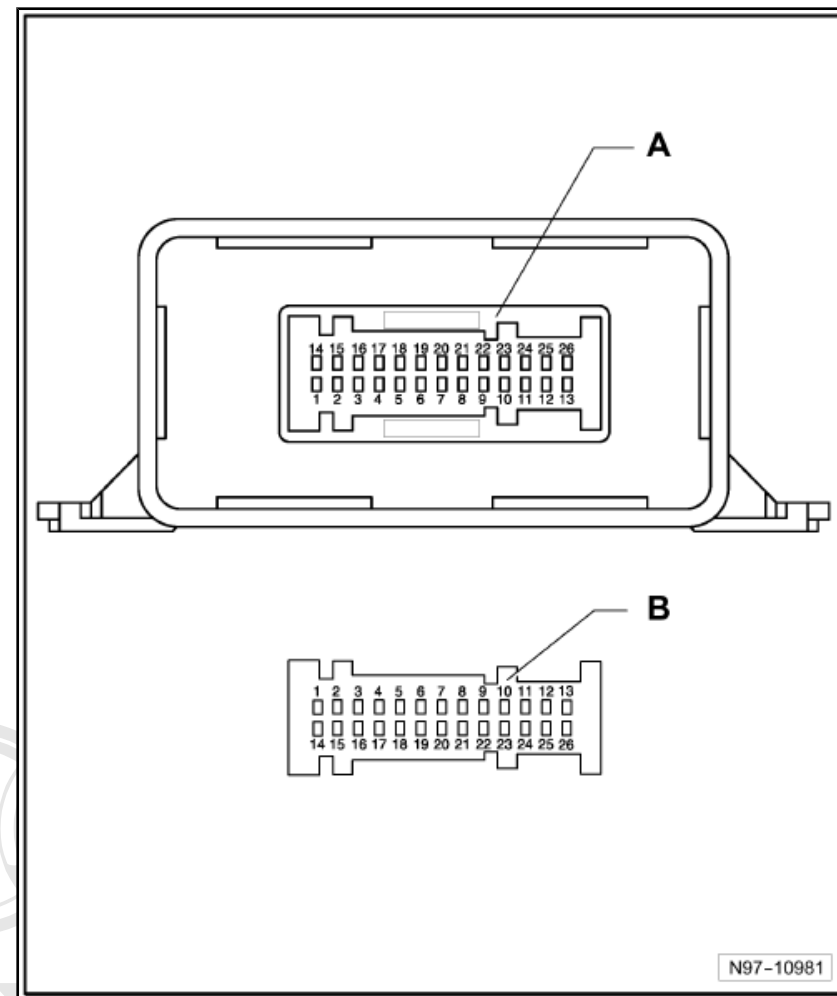
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1.2.2 Connector assignment.

A - Headlight range control, control unit -J431-

Connector:

B - 26-pin connector -T26a-

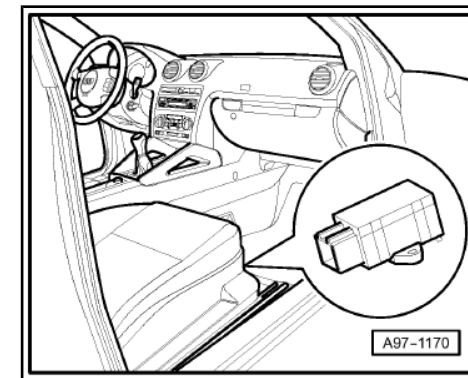




1.3 Front passenger seat heating control unit -J727-

1.3.1 Location:

Under front passenger seat



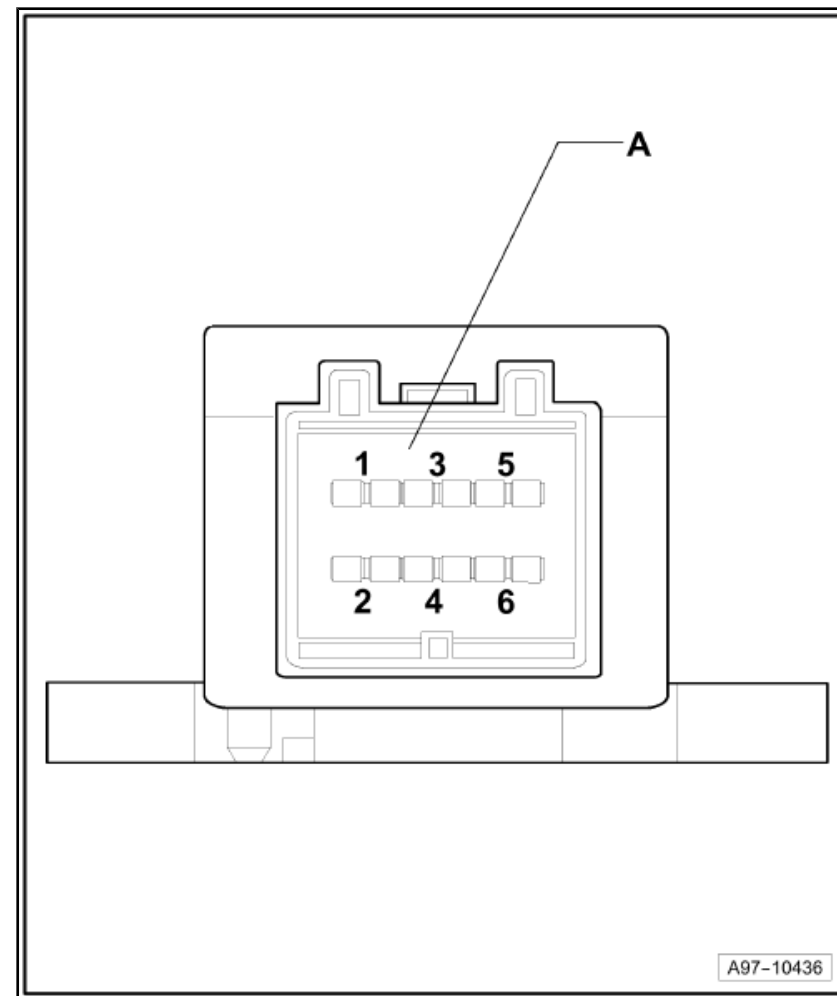
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1.3.2 Connector assignment.

- Front passenger seat heating control unit -J727-

Connector:

A - 6-pin connector -T6p-

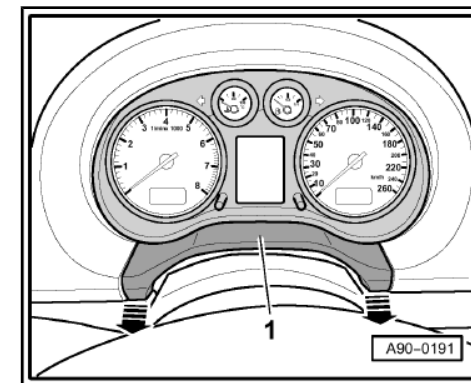




1.4 Control unit in dash panel insert -J285-

1.4.1 Location:

in dash panel



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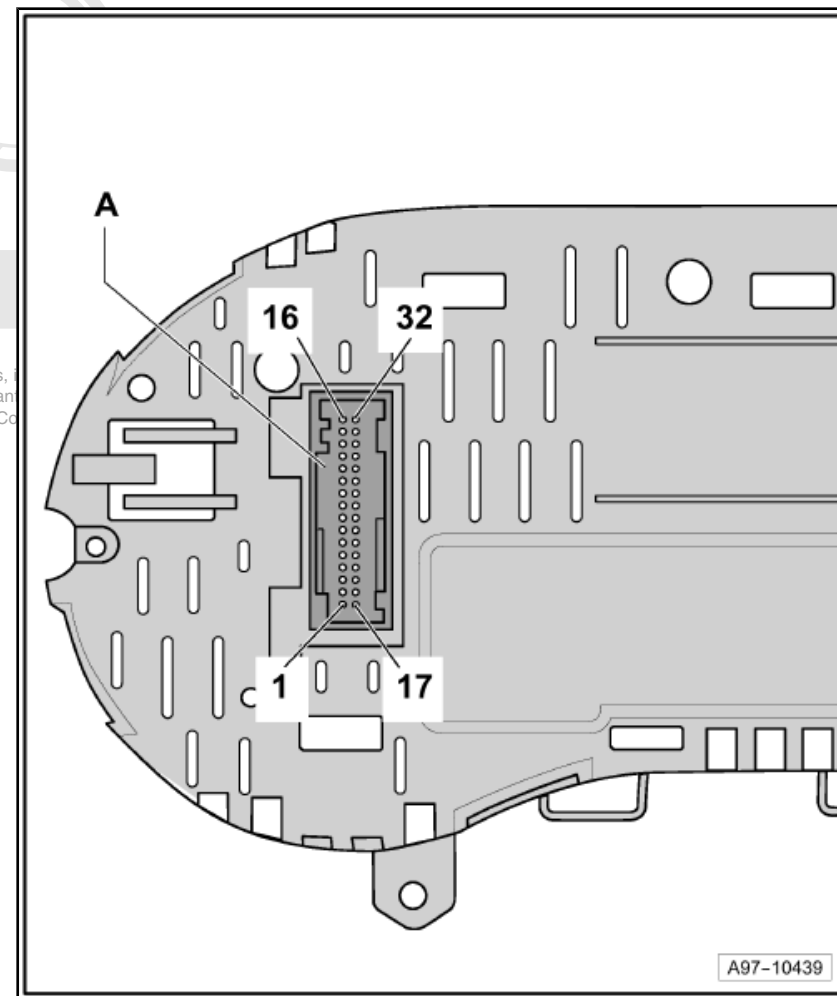
1.4.2 Connector assignment.

- Control unit in dash panel insert -J285-

Connector:

A - 32-pin connector -T32-

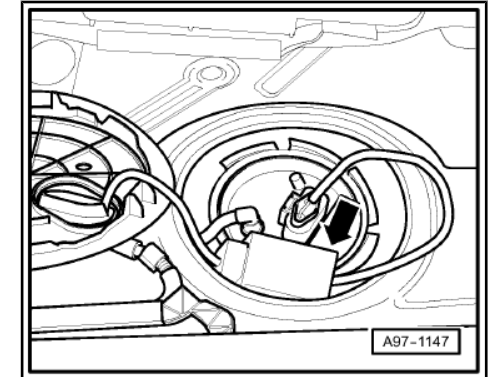
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1.5 Fuel pump control unit -J538-

1.5.1 Location:

Under rear seat bench, on fuel pump -arrow-



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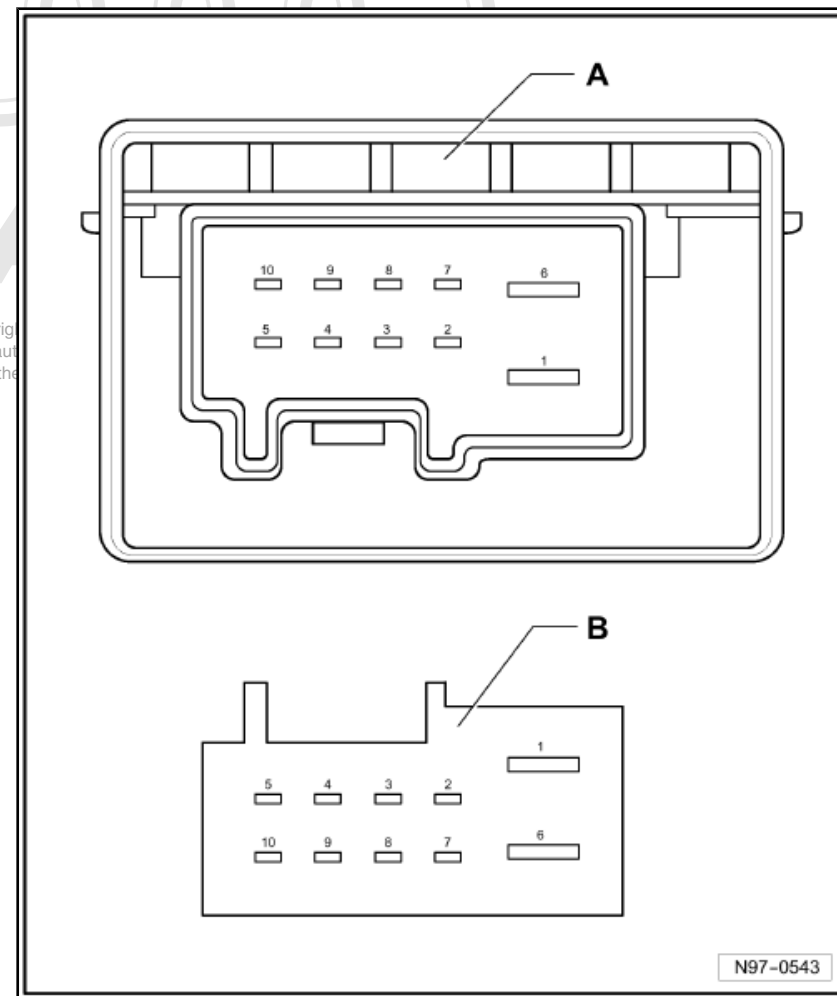
1.5.2 Connector assignment.

A - Fuel pump control unit -J538-

Connector:

B - 10-pin connector -T10b-

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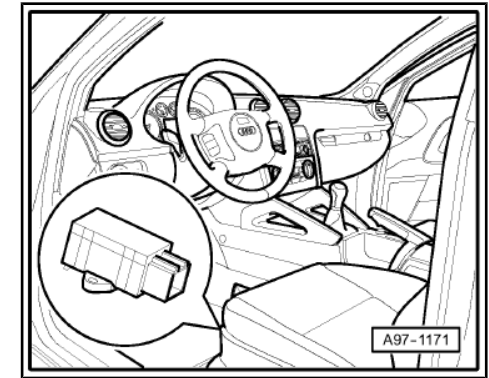
1.6 Driver seat heating control unit -J726-

1.6.1 Location:

under driver seat



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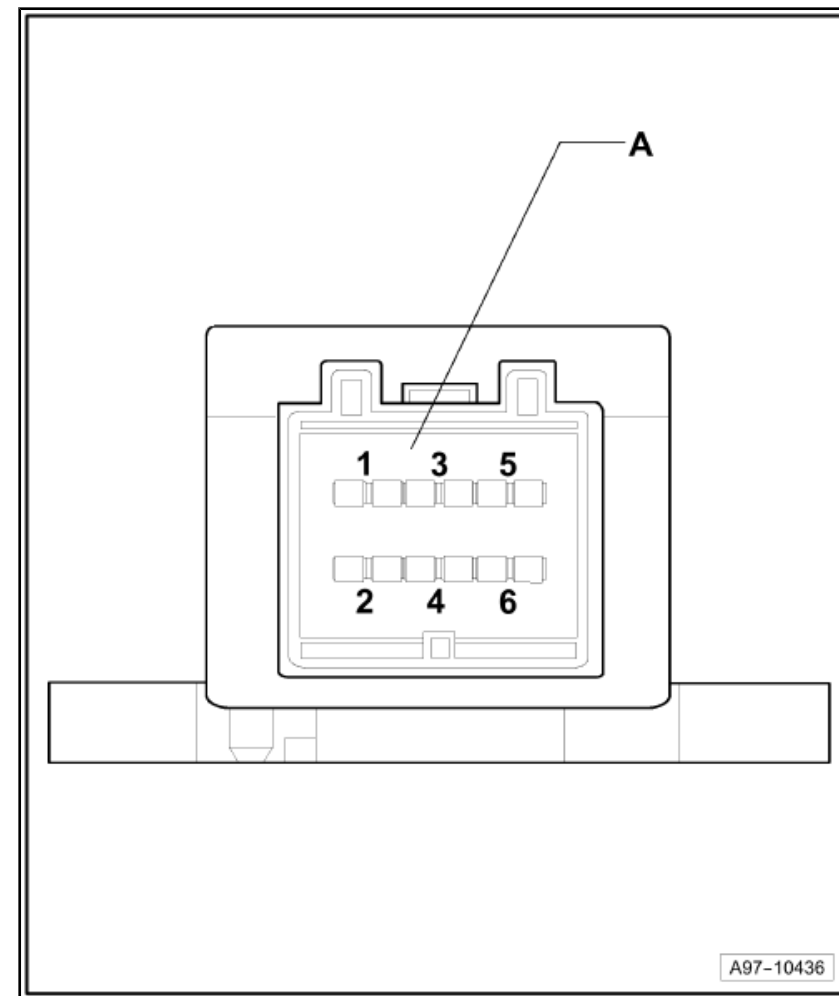


1.6.2 Connector assignment.

- Driver seat heating control unit -J726-

Connector:

A - 6-pin connector -T6o-



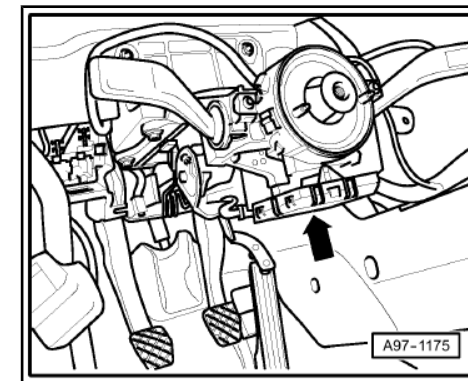
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1.7 Steering column electronics control unit -J527-

1.7.1 Location:

on steering column -arrow-



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1.7.2 Connector assignment.

A - Steering column electronics control unit -J527-

B - 4-pin connector (Airbag mounting)

C - 10-pin connector (Cruise control system and turn signal support)

D - 20-pin connector -T20b-

E - 4-pin connector -T4n-

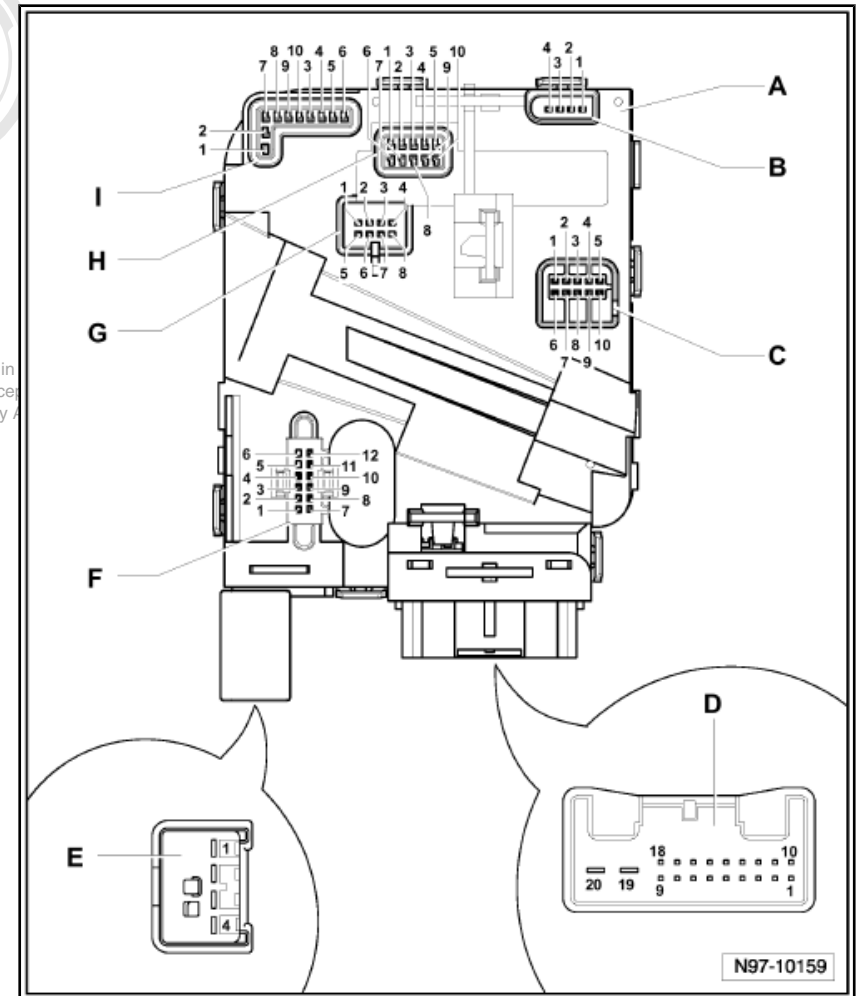
F - 12-pin connector (Ignition/starter switch and ignition key withdrawal lock support)

G - 8-pin connector (Wiper support, interval potentiometer and multifunction system)

H - 10-pin connector (Steering angle sensor support)

I - 10-pin connector (Coil connector support)

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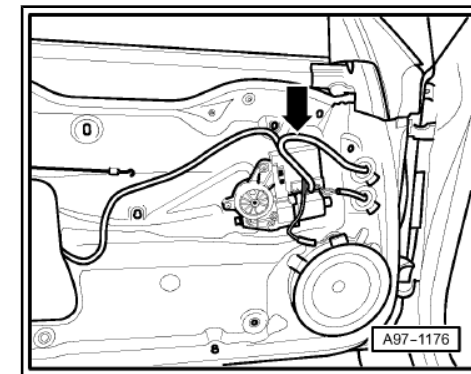




1.8 Driver door control unit -J386-

1.8.1 Location:

In driver door -arrow-



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1.8.2 Connector assignment.

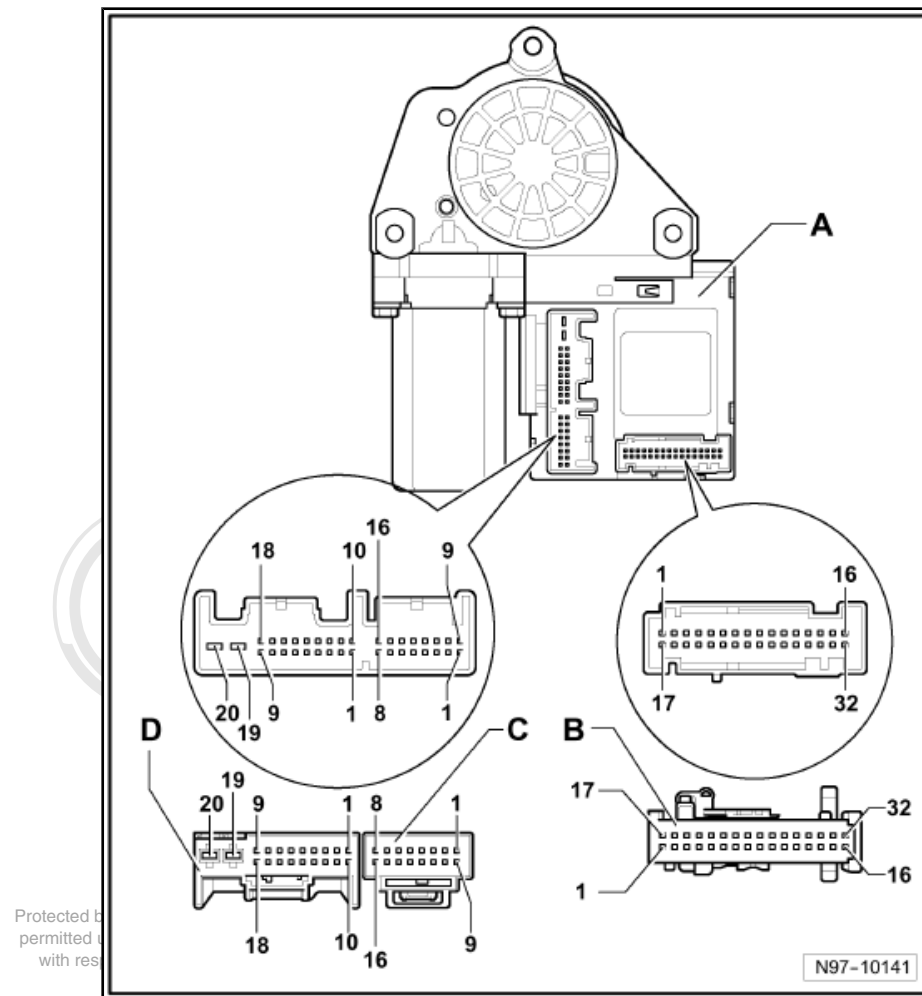
A - Driver door control unit -J386-

Connector:

B - 32-pin connector -T32a-

C - 16-pin connector -T16b-

D - 20-pin connector -T20f-

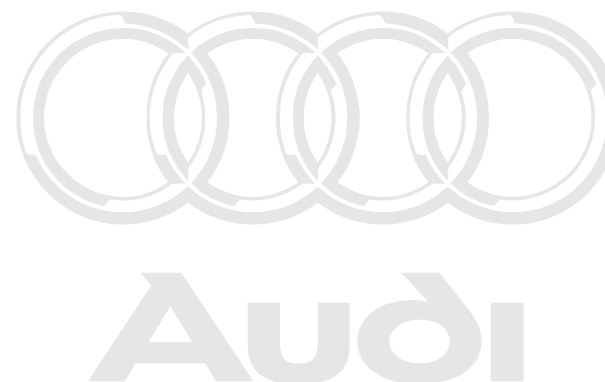
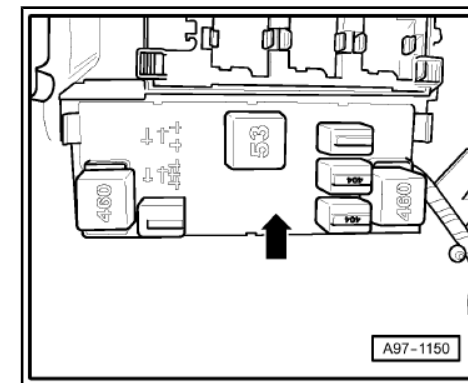




1.9 Onboard supply control unit -J519-

1.9.1 Location:

On left under dash panel, under relay carrier -arrow-



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1.9.2 Connector assignment.

- Onboard supply control unit -J519-

Connector:

A - 11-pin connector -T11b-

B - 12-pin connector -T12c-

C - 12-pin connector -T12d-

D - 11-pin connector -T11c-

E - 16-pin connector -T16a-

F - 8-pin connector -T8h-

G - 12-pin connector -T12e-

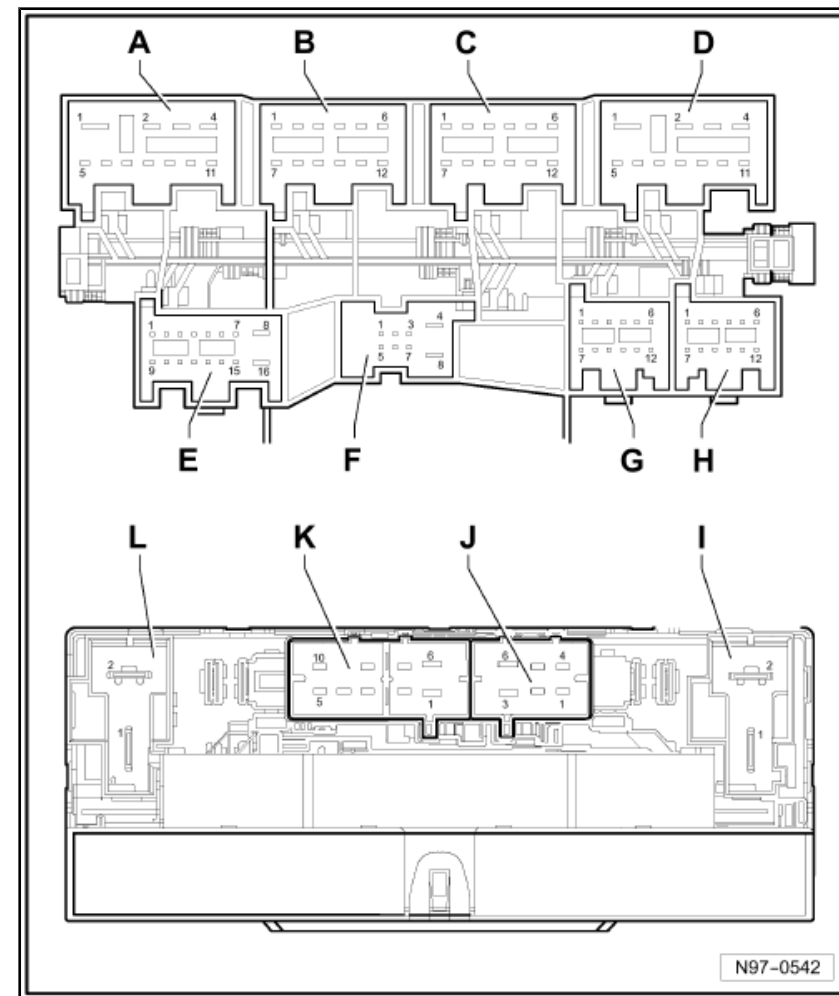
H - 12-pin connector

I - 2-pin connector -T2b-

J - 6-pin connector -T6h-

K - 10-pin connector -T10d-

L - 2-pin connector -T2t-

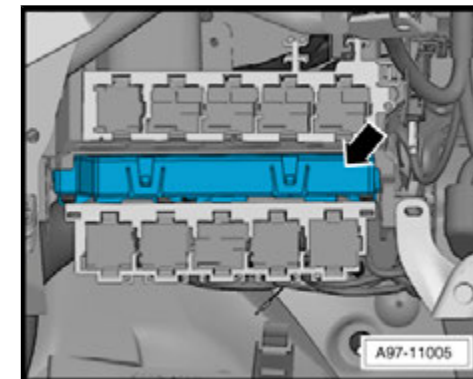


not
ability

1.10 Onboard supply control unit -J519-

1.10.1 Location:

Left under dash panel -arrow-



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1.10.2 Connector assignment.

- Onboard supply control unit -J519-

Connector:

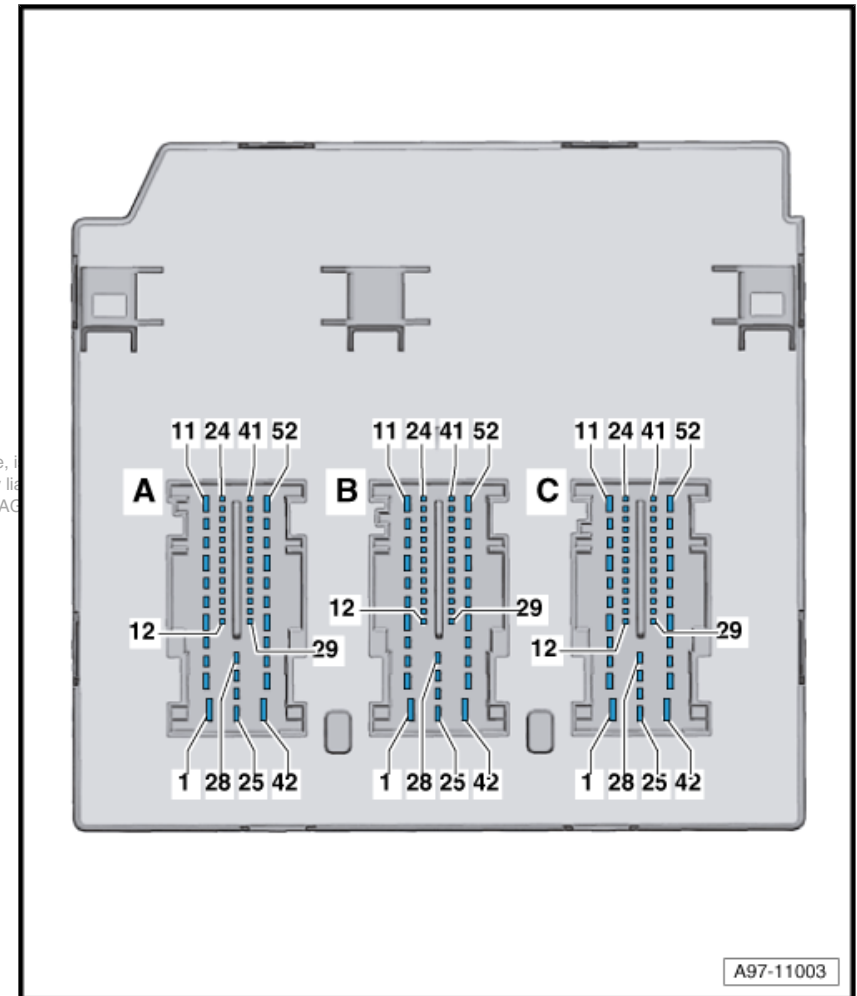
A - 52-pin connector -T52a-

B - 52-pin connector -T52b-

C - 52-pin connector -T52c-

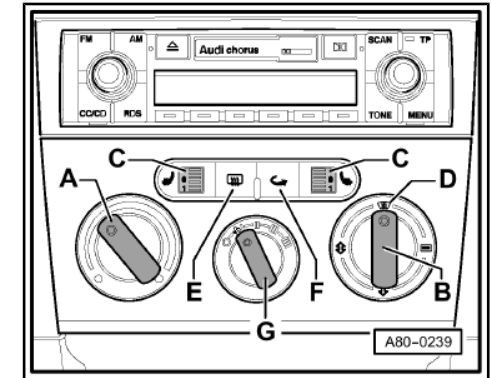


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1.11 Heater control unit -J65- / Heater control unit -J162-



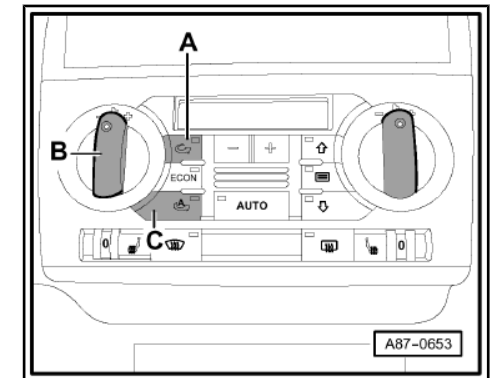
1.11.1 Location:

in centre console

1.12 Climatronic control unit -J255-



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1.12.1 Location:

in centre console

1.12.2 Connector assignment.

- Climatronic control unit -J255-

Connector:

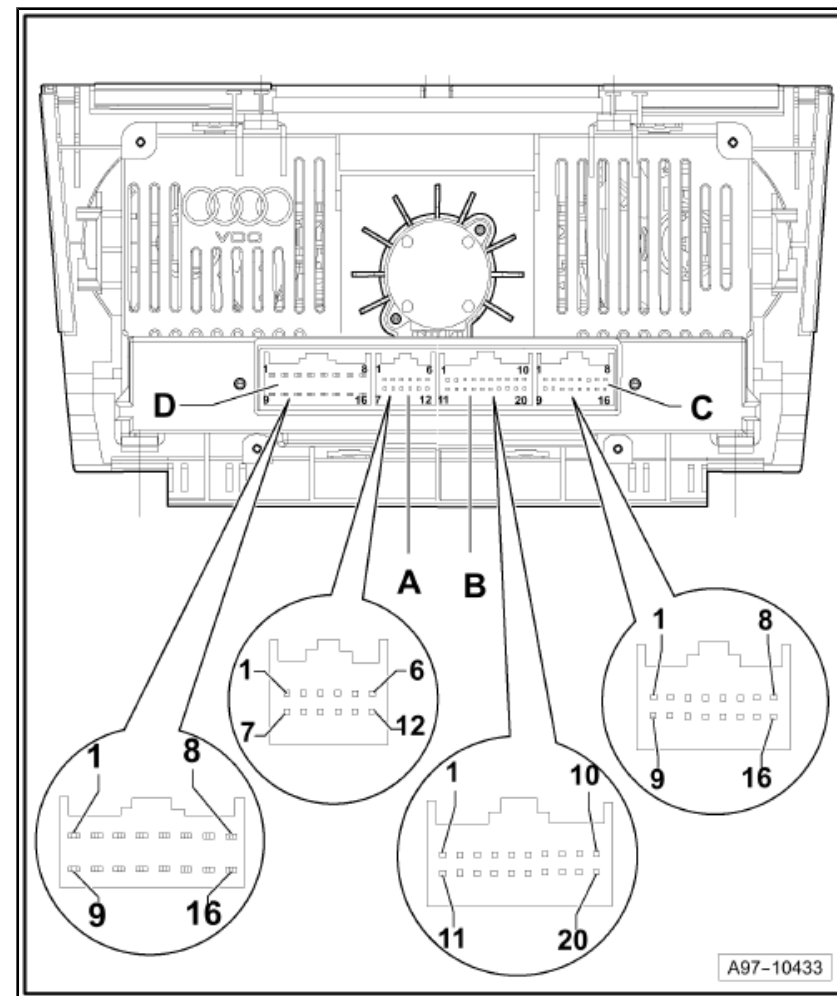
A - 12-pin connector -T12f-

B - 20-pin connector -T20j-

C - 16-pin connector -T16e-

D - 16-pin connector -T16d-

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1.13 Data bus diagnostic interface -J533-

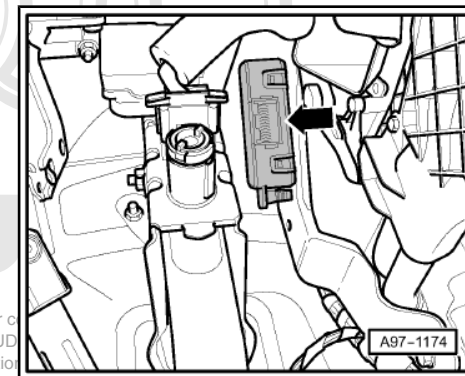
1.13.1 Location:

in left footwell -arrow-



Note

Location of Data bus diagnostic interface -J533- is the same for right and left-hand drive models.



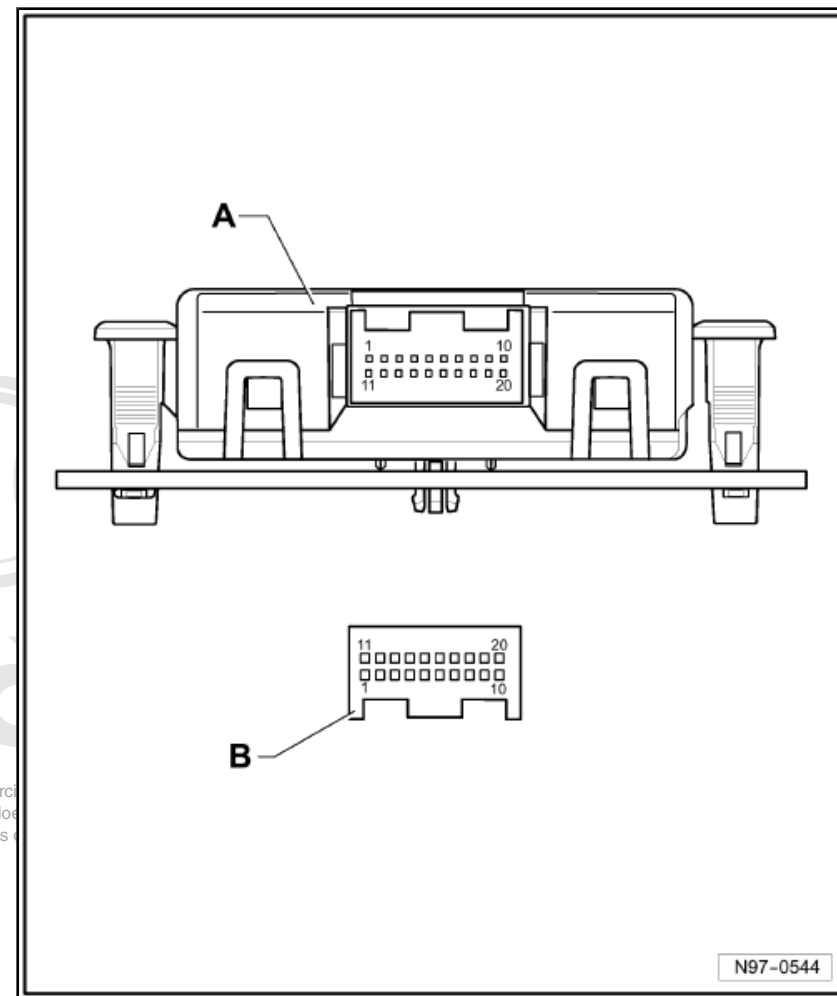
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1.13.2 Connector assignment.

A - Data bus diagnostic interface -J533-

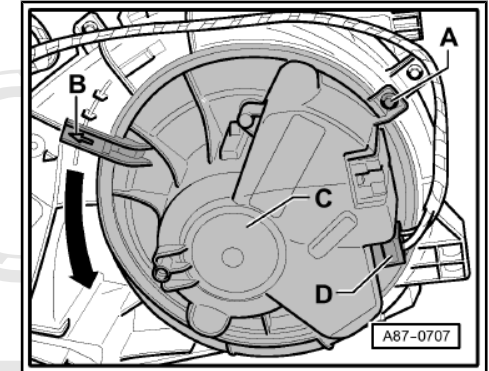
Connector:

B - 20-pin connector -T20d-



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1.14 Fresh air blower control unit -J126-

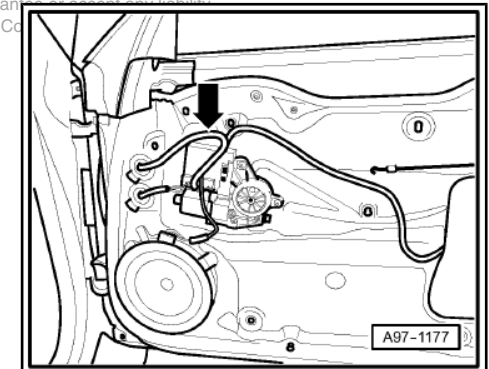


1.14.1 Location:

Under glove compartment, on fresh air blower -V2-

1.15 Front passenger door control unit -J387-

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1.15.1 Location:

in front passenger door -arrow-

1.15.2 Connector assignment.

A - Front passenger door control unit -J387-

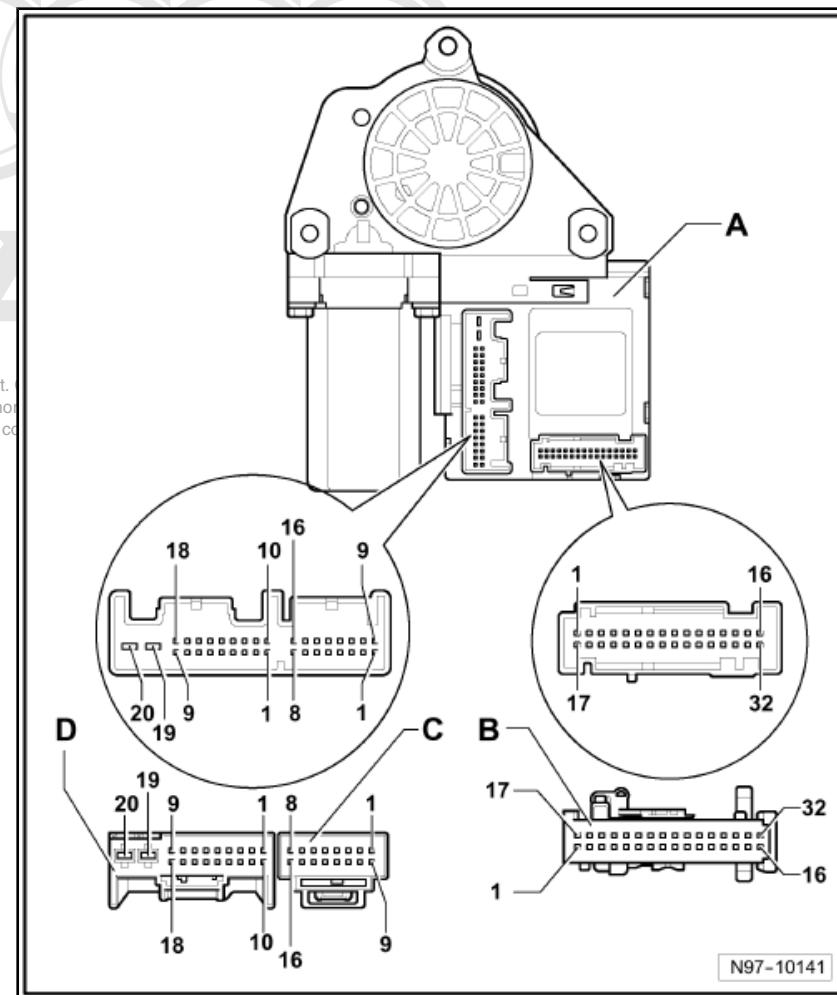
Connector:

B - 32-pin connector -T32b-

C - 16-pin connector -T16c-

D - 20-pin connector -T20g-

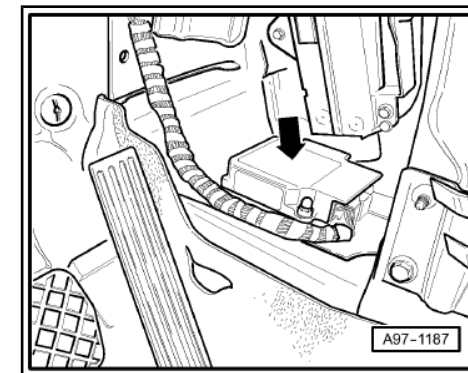
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1.16 Airbag control unit -J234-

1.16.1 Location:

Under centre console -arrow-



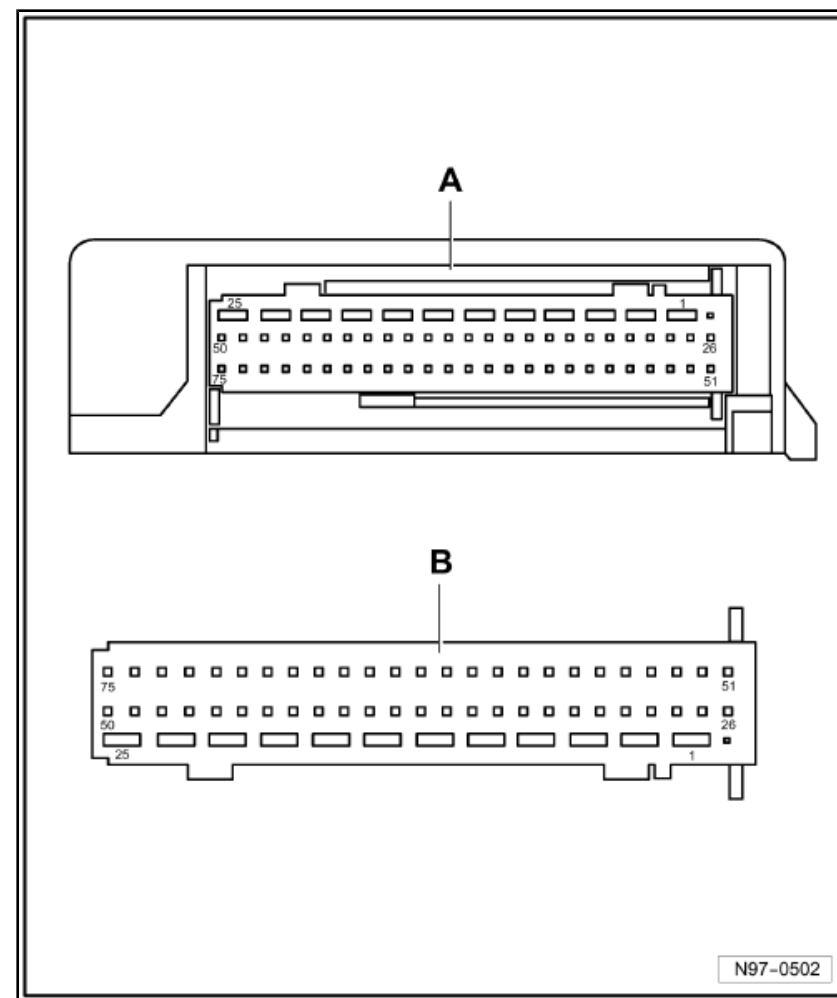
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1.16.2 Connector assignment.

A - Airbag control unit -J234-

Connector:

B - 75-pin connector -T75-



1.17 Connection for external audio source -R199-

Fitting location

In glove compartment

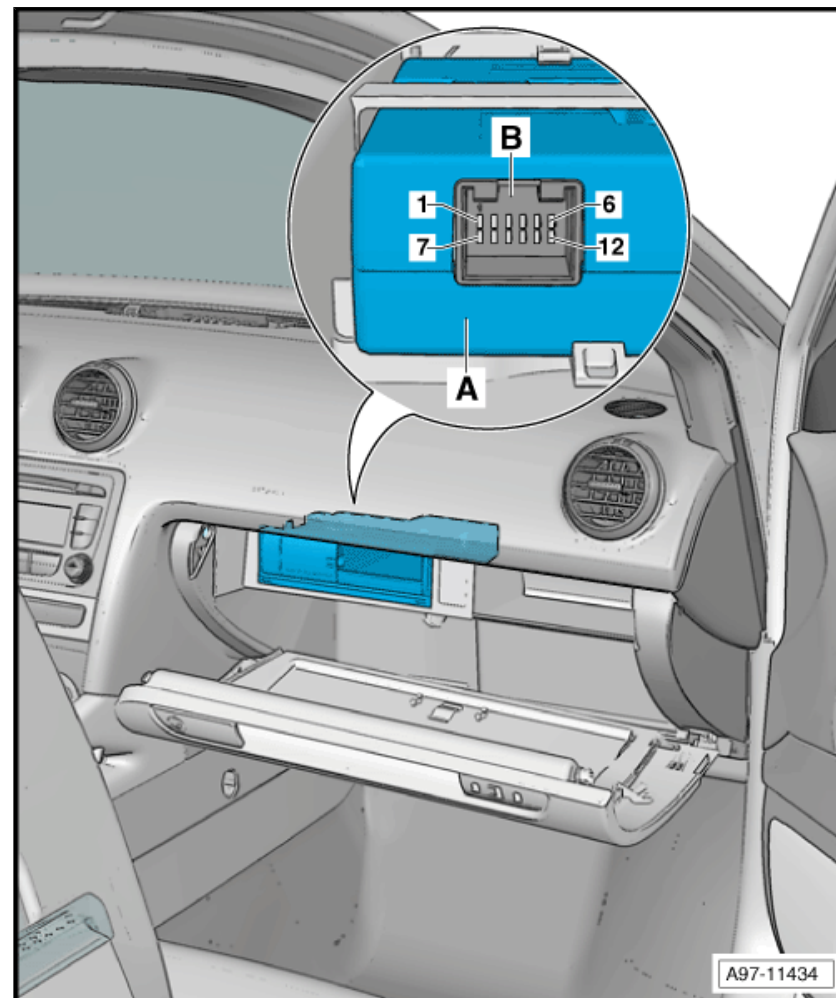
A - Connection for external audio source -R199-

B - 12-pin connector -T12y-



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1.18 Radio -R- / Control unit with display for radio and navigation system -J503- (RNS-low)

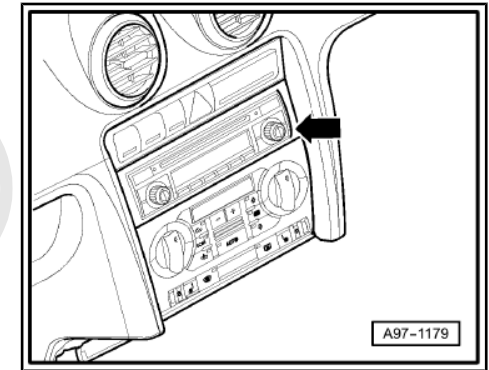
1.18.1 Location:

In centre console -arrow-

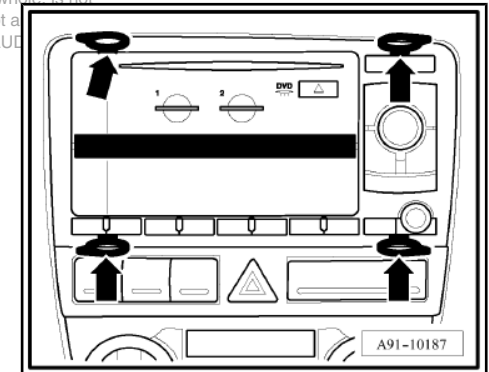
1.19 Navigation operating electronics control unit -J402- (RNS-E)

1.19.1 Location:

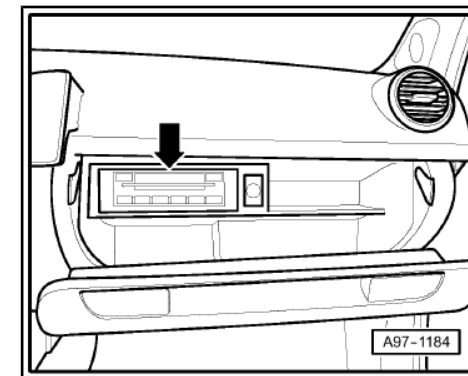
in centre console



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1.20 CD changer -R41-



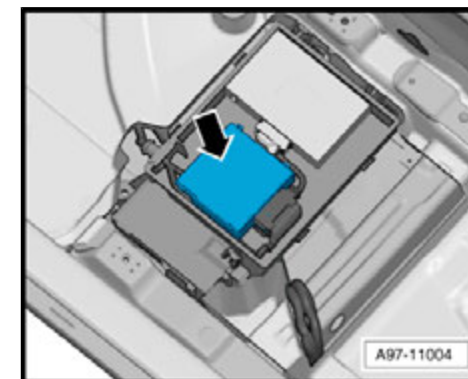
1.20.1 Location:

In glove box -arrow-

1.21 Voltage stabiliser -J532-



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1.21.1 Location:

Under driver seat -arrow-

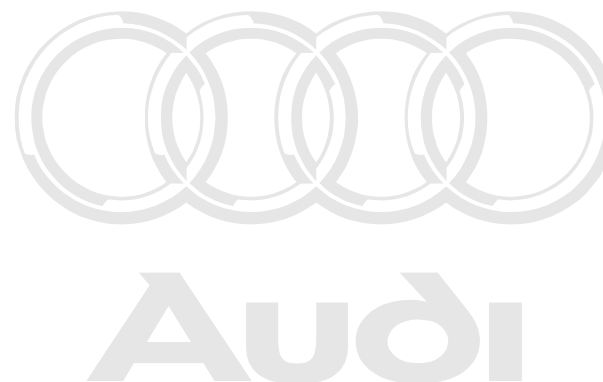
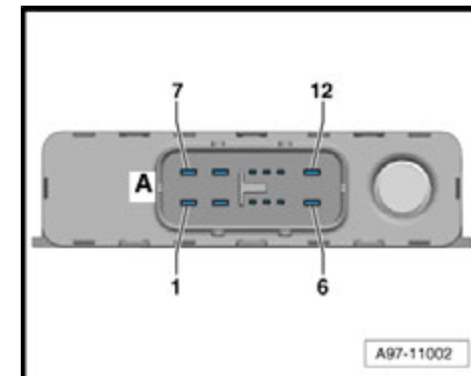


1.21.2 Connector assignment.

- Voltage stabiliser -J532-

Connector:

A - 12-pin connector -T12x-



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1 Control units in rear part of vehicle

1.1 Overview of control units

1 -

Control units on right in luggage compartment

- ☐ Components: -J345-, -J393-, -J446-
- ☐ Location ⇒ [page 2](#)
- ☐ Connector assignment -J345- ⇒ [page 3](#)
- ☐ Connector assignment -J393- ⇒ [page 4](#)

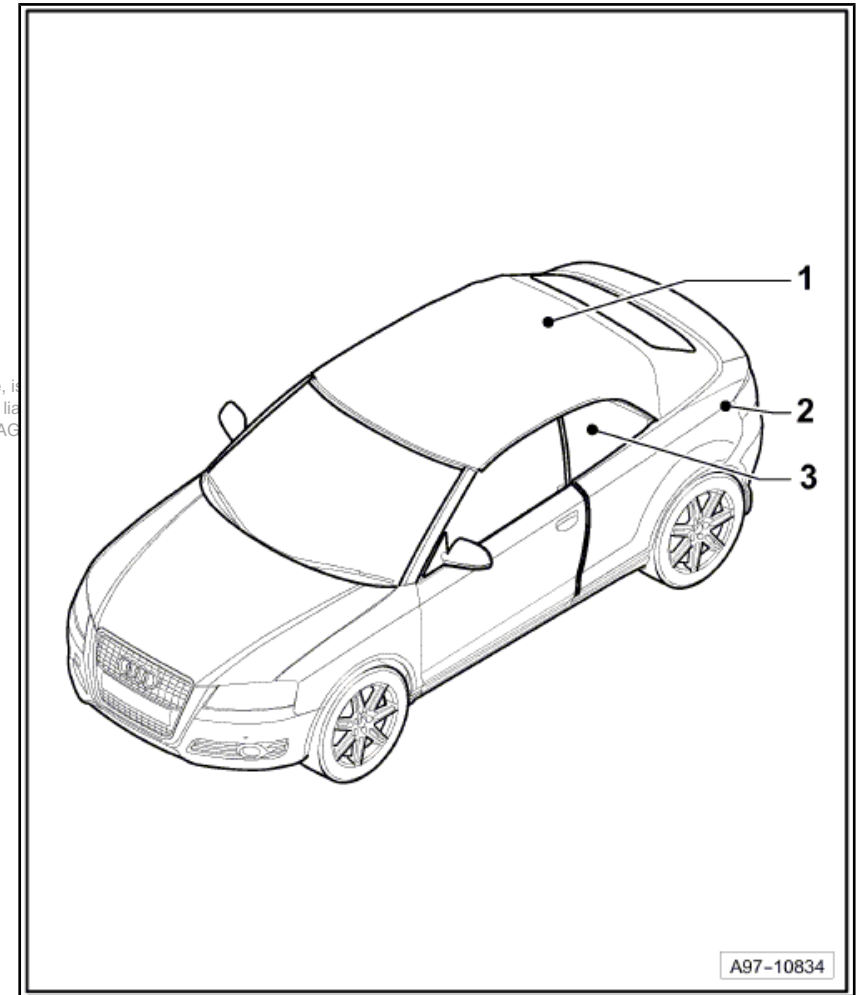
2 - Convertible roof actuation control unit -J256-

- ☐ Location ⇒ [page 5](#)

3 - All-wheel drive control unit - J492 -

- ☐ Location ⇒ [page 6](#)
- ☐ Connector assignment ⇒ [page 7](#)

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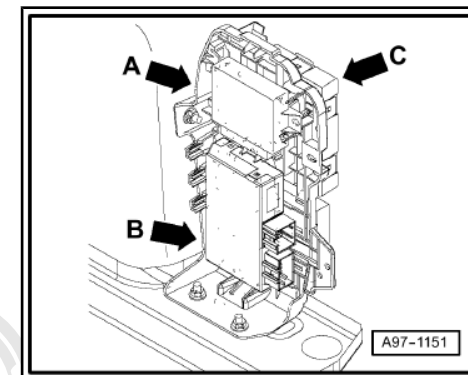
A97-10834

1.2 Control units on right in luggage compartment**1.2.1 Location:**

A - Parking aid control unit -J446-

B - Trailer detector control unit -J345-

C - Convenience system central control unit -J393-



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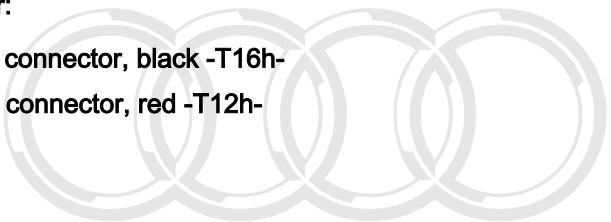
1.2.2 Connector assignment.

A - Trailer detector control unit -J345-

Connector:

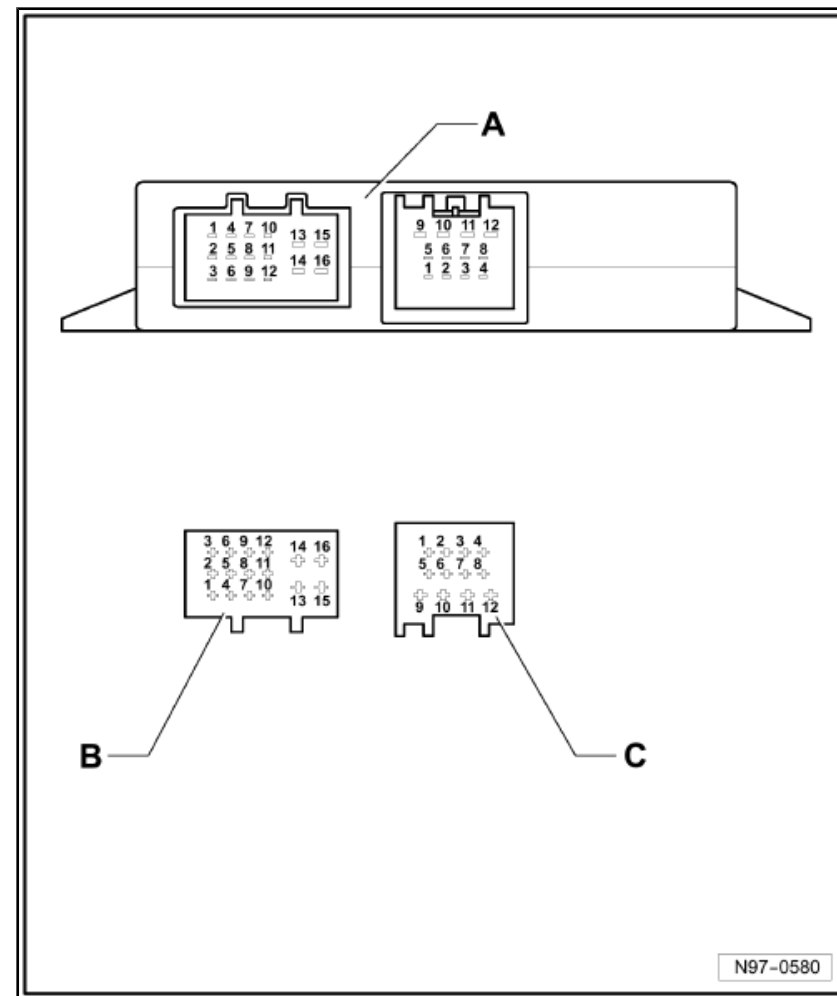
B - 16-pin connector, black -T16h-

C - 12-pin connector, red -T12h-



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1.2.3 Connector assignment.

A - Convenience system central control unit -J393-

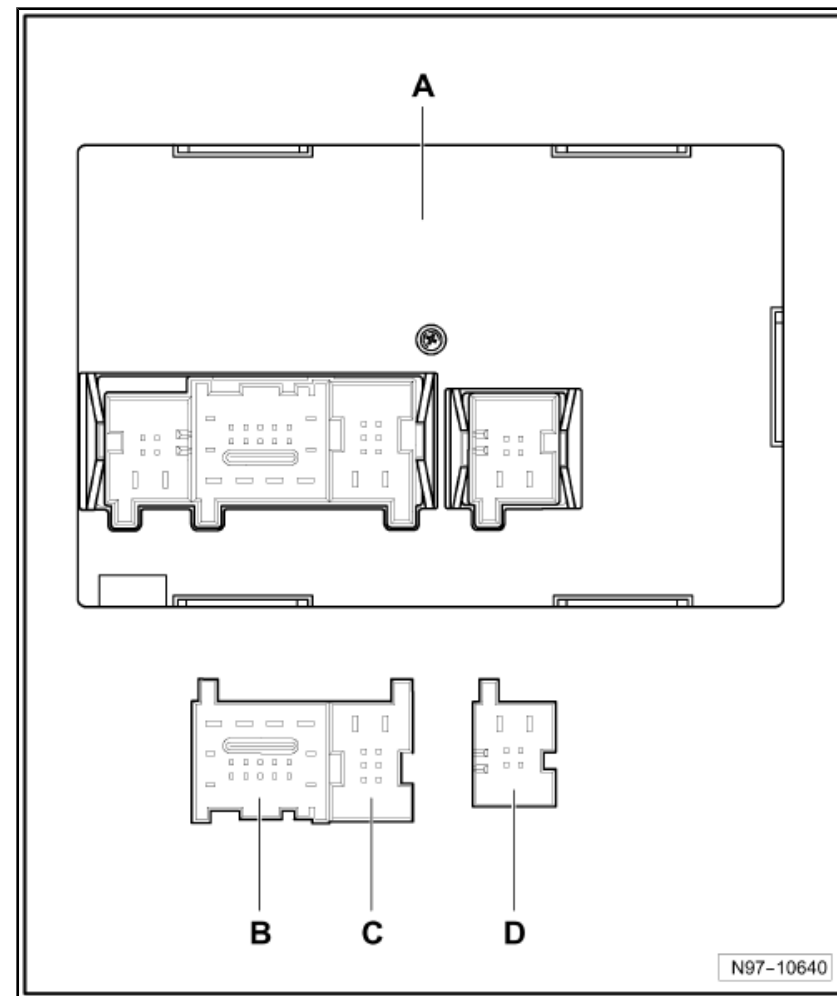
Connector:

B - 18-pin connector, brown -T18-

C - 8-pin connector, black -T8g-

D - 6-pin connector, black -T6g-

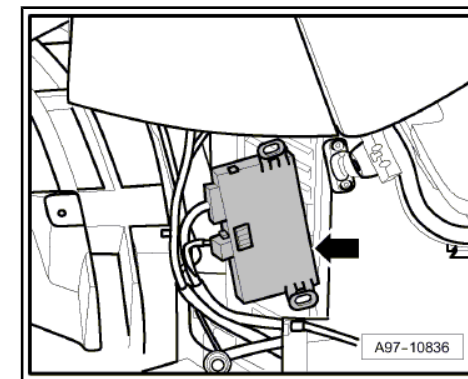
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1.3 Convertible roof actuation control unit -J256-

1.3.1 Location:

behind side trim on left -arrow-



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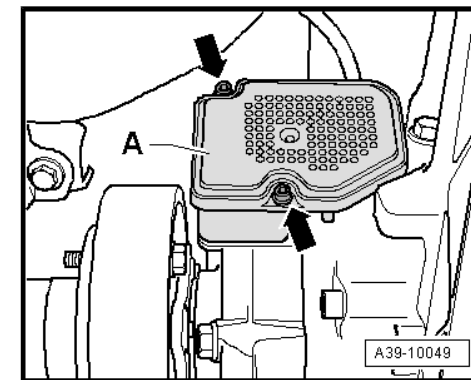
1.4 All-wheel drive control unit - J492 -

1.4.1 Location:

on rear axle differential, front left

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1.4.2 Connector assignment.

- All-wheel drive control unit - J492 -

Connector:

A - 2-pin connector -T2ax-

B - 8-pin connector, black -T8y-

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