

Power distribution (dual battery system),

from June 2003

Note:

Informations for

- ! Relay and fuse arrangement
- ! Connector arrangement
- ! Control units and relays
- ! Ground connections
- " Component Locations!



- E224 - Key switch for switching off passenger side airbag
- F47 - Brake Pedal Switch (cruise control/Diesel Direct Fuel Injection)
- G70 - Mass Air Flow (MAF) Sensor
- G246- Mass Air Flow (MAF) Sensor 2
- G266- Oil Level Thermal Sensor
- J... - Engine Control Module (ECM)
- J234 - Airbag Control Module
- J285 - Control module with indicator unit in instrument panel insert
- J669 - Seat Belt Tensioner Relay
- J681 - Power Supply Relay 2 (terminal 15)
- SB52- Fuse 52 (in fuse holder)
- SB53- Fuse 53 (in fuse holder)
- SB54- Fuse 54 (in fuse holder)
- SB55- Fuse 55 (in fuse holder)
- SB56- Fuse 56 (in fuse holder)
- T14ad- 14-Pin connector, connector station 2 / in basic engine harness
- T17g - 17-Pin connector, red, behind instrument panel, left

- 373 - Ground Connection 8 (in main wiring harness)
- 636 - Ground Connection (power circuit control module)
- B279 - Plus Connection 3 (15a) (in main wiring harness)
- B288 - Plus Connection 12 (15a) (in main wiring harness)
- B356 - Plus Connection 7 (87a) (in main wiring harness)

* - code BGJ only

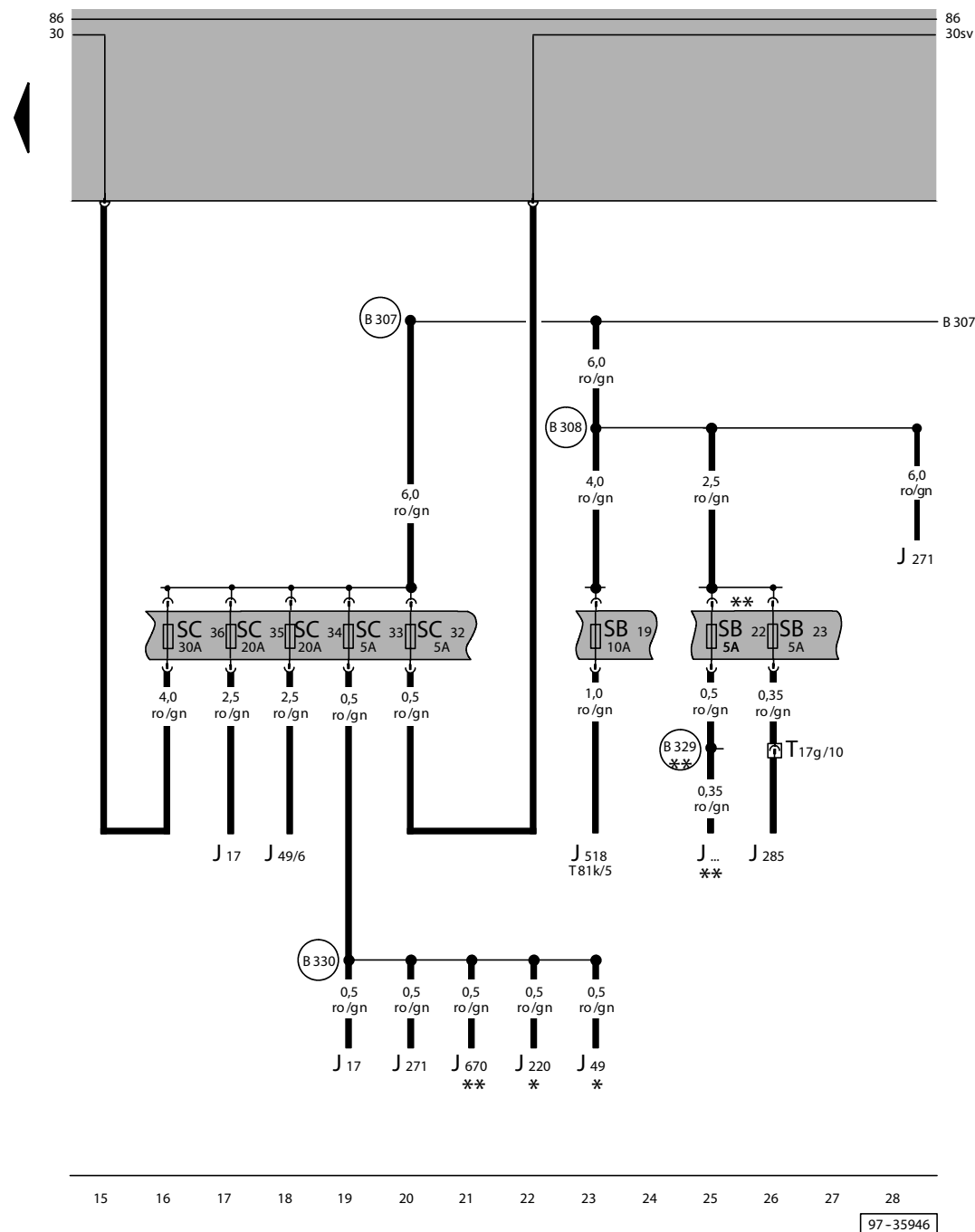
** - code BAP only

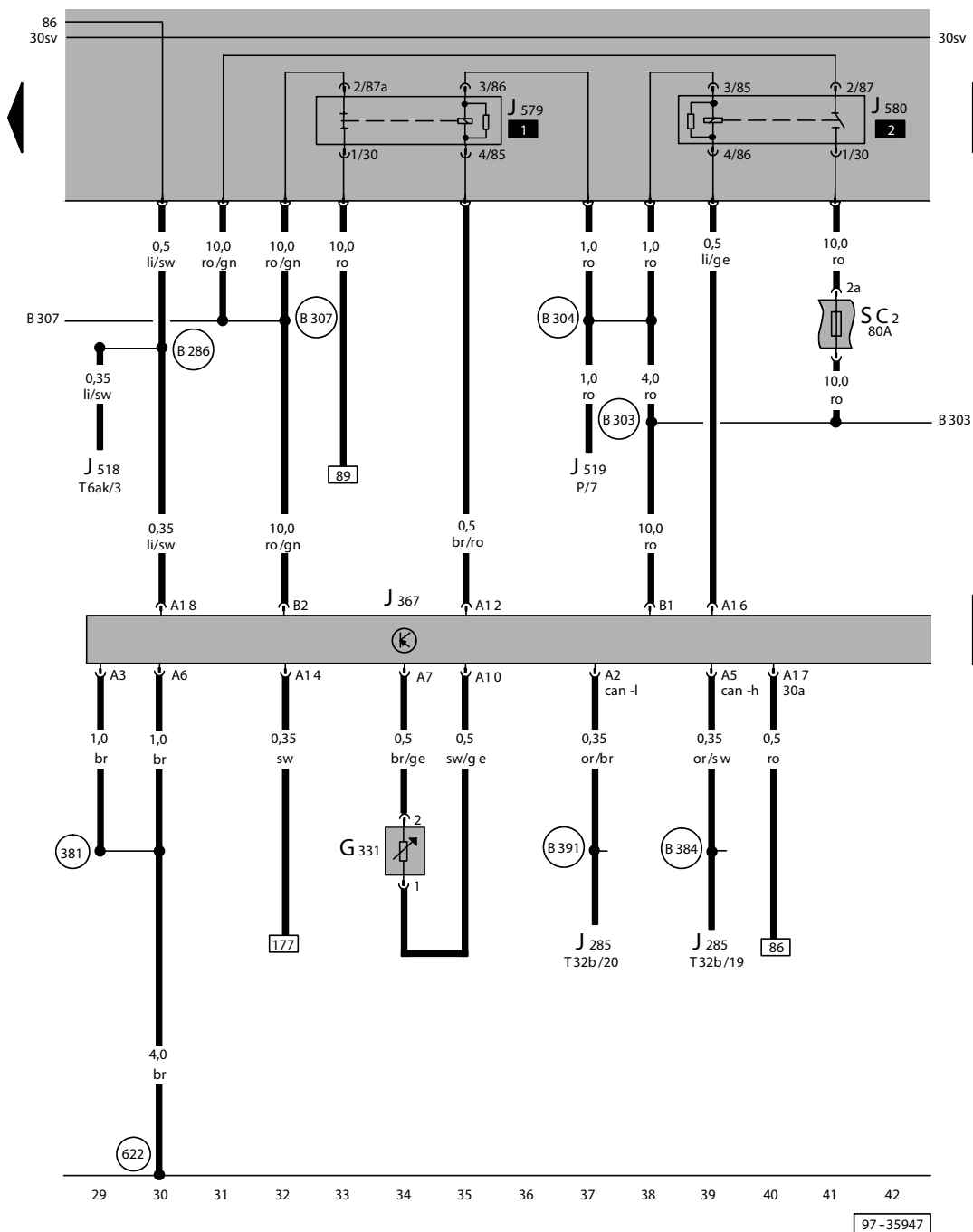
Fuses

- J... - Engine Control Module (ECM)
 J17 - Fuel Pump (FP) Relay
 J49 - Fuel Pump (FP) 2 Relay
 J220 - Motronic Engine Control Module (ECM)
 J271 - Motronic Engine Control Module (ECM) Power Supply Relay
 J285 - Control module with indicator unit in instrument panel insert
 J518 - Access/Start Control Module
 J670 - Motronic Engine Control Module (ECM) Power Supply Relay 2
 SB19 - Fuse 19 (in fuse holder)
 SB22 - Fuse 22 (in fuse holder)
 SB23 - Fuse 23 (in fuse holder)
 SC32 - Fuse 32 (in fuse holder)
 SC33 - Fuse 33 (in fuse holder)
 SC34 - Fuse 34 (in fuse holder)
 SC35 - Fuse 35 (in fuse holder)
 SC36 - Fuse 36 (in fuse holder)
 T17g - 17-Pin connector, red, behind instrument panel, left
 T81k - 81-Pin Connector
 B307 - Plus Connection 11 (30) (in main wiring harness)
 B308 - Plus Connection 12 (30) (in main wiring harness)
 B329 - Plus Connection 15 (30a) (in main wiring harness)
 B330 - Plus Connection 16 (30a) (in main wiring harness)

- * - code BGJ only
 * * - code BAP only

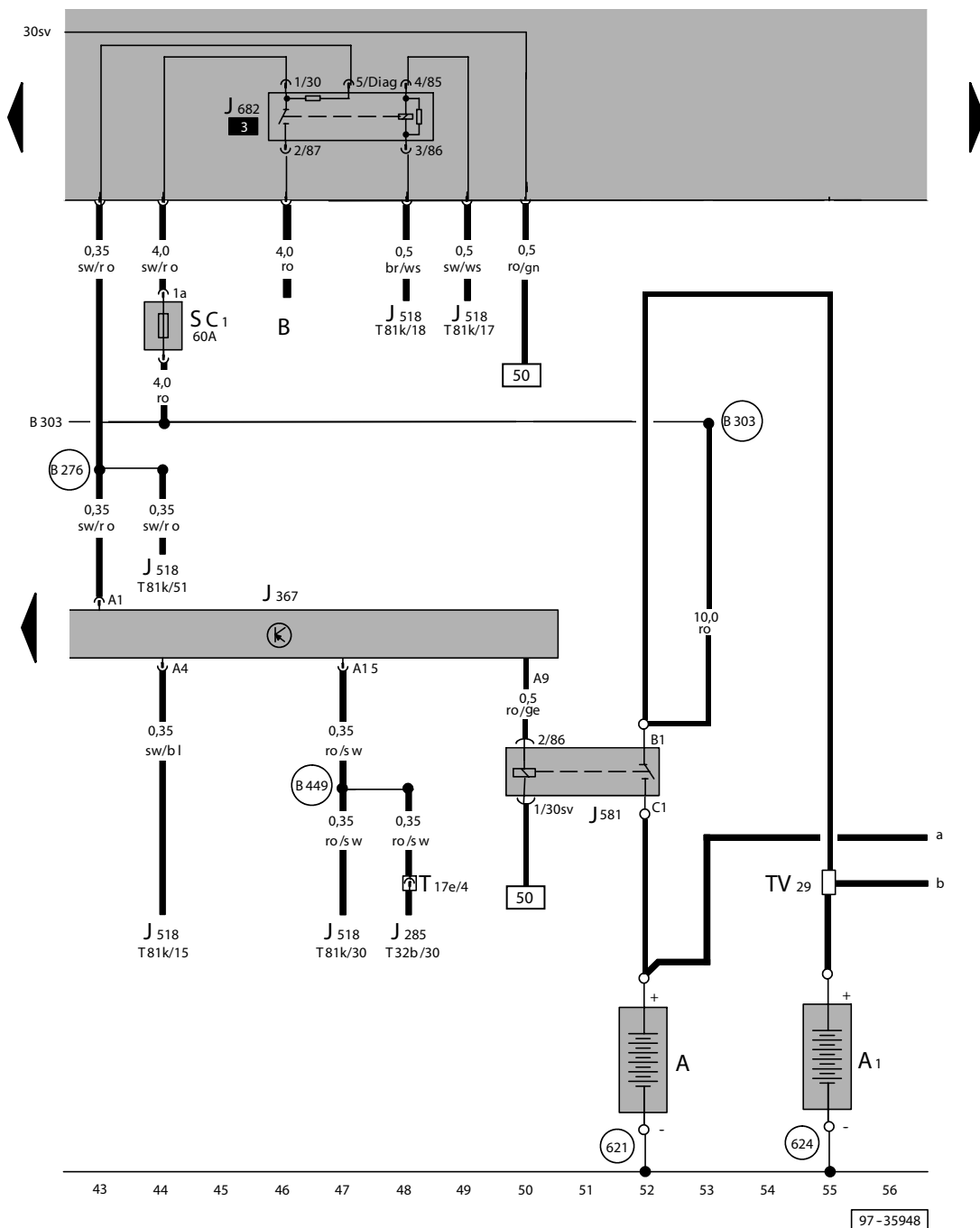
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 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow
 or = orange



Battery Monitoring Control Module, Electrical System Battery Switch-over Relay, Starter Battery Switch-over Relay, Starter Battery Temperature Sensor


- G331 - Starter Battery Temperature Sensor
- J 285 - Control module with indicator unit in instrument panel insert
- J 367 - Battery Monitoring Control Module
- J 518 - Access/Start Control Module
- J 519 - Vehicle Electrical System Control Module
- J 579 - Electrical System Battery Switch-over Relay
- J 580 - Starter Battery Switch-over Relay
- SC2 - Fuse 2 (in fuse holder)
- T6ak - 6-Pin connector
- T32b - 32-Pin connector, green, on instrument cluster

- (381) - Ground Connection 16 (in main wiring harness)
- (622) - Ground Connection 1 (ground plate)
- (B 286) - Plus Connection 10 (15a) (in main wiring harness)
- (B 303) - Plus Connection 7 (30) (in main wiring harness)
- (B 304) - Plus Connection 8 (30) (in main wiring harness)
- (B 307) - Plus Connection 11 (30) (in main wiring harness)
- (B 384) - Powertrain CAN-Bus High Connection 2 (in main wiring harness)
- (B 391) - Powertrain CAN-Bus Low Connection 2 (in main wiring harness)

Battery, Auxiliary Battery, Battery Monitoring Control Module, Power Supply Relay, Parallel Battery Connection Relay


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

- A - Battery
- A1 - Auxiliary Battery
- B - Starter
- J 285 - Control module with indicator unit in instrument panel insert
- J 367 - Battery Monitoring Control Module
- J 518 - Access/Start Control Module
- J 581 - Parallel Battery Connection Relay
- J 682 - Power Supply Relay (terminal 50)
- SC 1 - Fuse 1 (in fuse holder)
- T17e - 17-Pin connector, blue, behind instrument panel, left
- T32b - 32-Pin connector, green, on instrument cluster
- T81k - 81-Pin Connector
- TV29 - Wire junction 4 for terminal 30
- 621 - Ground Connection (power circuit battery)
- 624 - Ground Connection (starter battery)
- B 276 - Plus Connection (50) (in main wiring harness)
- B 303 - Plus Connection 7 (30) (in main wiring harness)
- B 449 - Emergency Operation Connection (in main wiring harness)

Suppressor, Terminal 30 Wire Connector, Terminal 30 Wire Connector, Wire junction 2 and 3 for terminal 30

A18 - Windshield Heating Voltage Converter
 B - Starter
 C - Generator (GEN)
 C24 - Suppressor
 J519 - Vehicle Electrical System Control Module
 S204 - Fuse 1 (30)
 S205 - Fuse 2 (30)
 S206 - Fuse 3 (30)
 S207 - Fuse 4 (30)

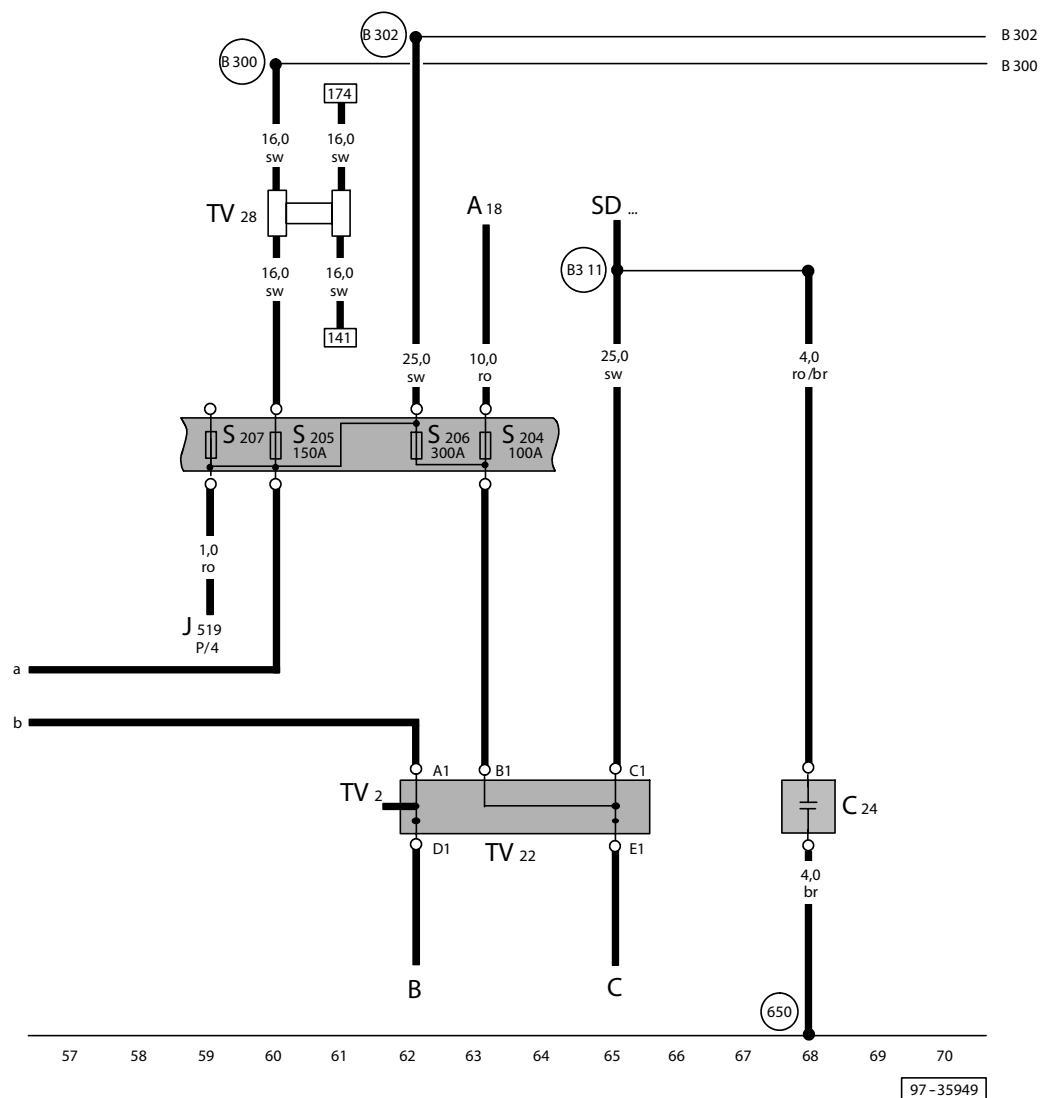
SD... - Fuses (in fuse holder)
 TV2 - Terminal 30 (B+) Wire Connector
 TV22 - Wire junction -2- for terminal 30
 TV28 - Wire junction 3 for terminal 30

(650) - Ground Connection 6 (on firewall)

(B300) - Plus Connection 4 (30) (in main wiring harness)

(B302) - Plus Connection 6 (30) (in main wiring harness)

(B311) - Plus Connection 15 (30) (in main wiring harness)



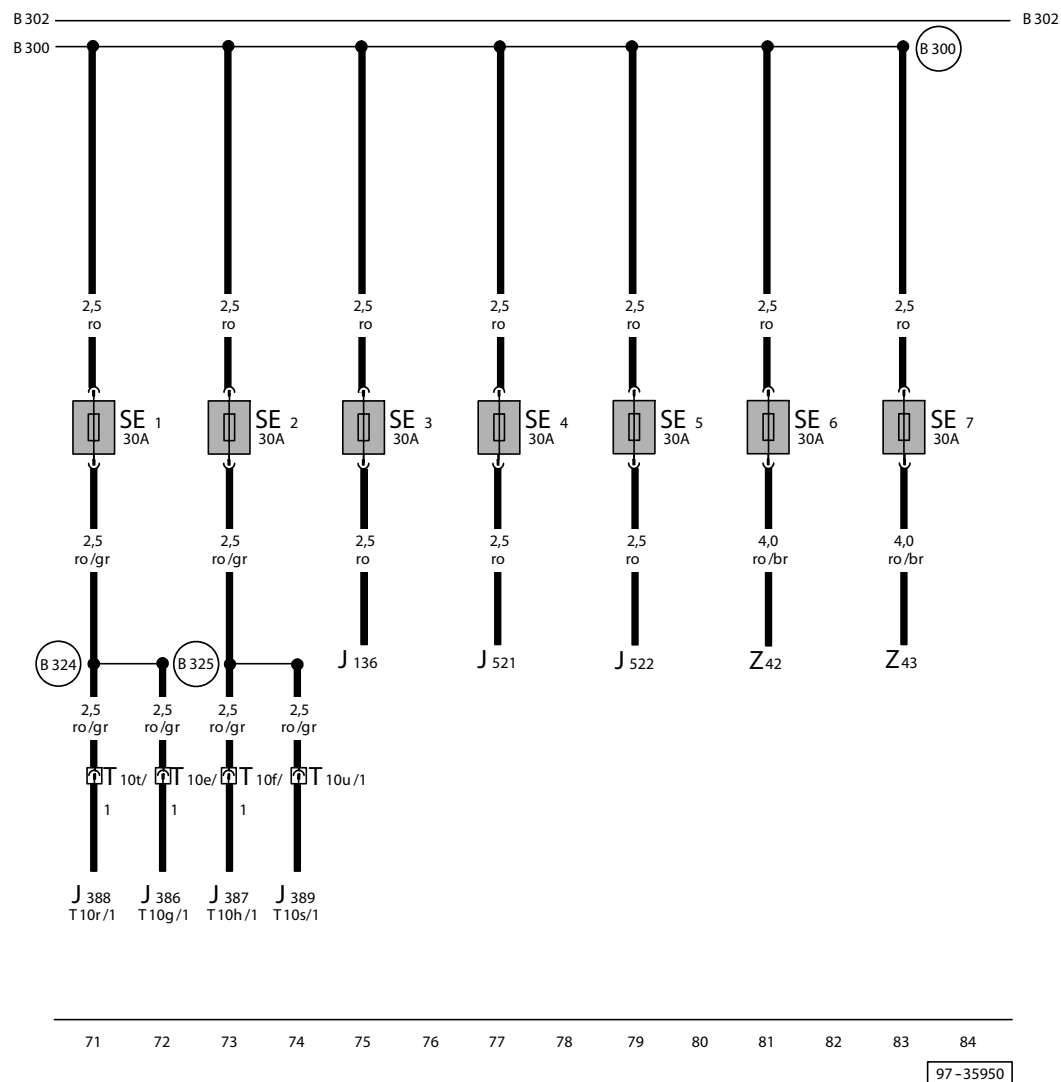
97-35949

Fuses

- J136 - Memory Seat/Steering Column Adjustment Control Module
- J386 - Door control module, driver side
- J387 - Door control module, passenger side
- J388 - Door control module, rear, left
- J389 - Door control module, rear, right
- J521 - Passenger Memory Seat Control Module
- J522 - Rear Memory Seat Control Module
- SE1 - Thermofuse 1 (on fuse holder)
- SE2 - Thermofuse 2 (on fuse holder)
- SE3 - Thermofuse 3 (on fuse holder)
- SE4 - Thermofuse 4 (on fuse holder)
- SE5 - Thermofuse 5 (on fuse holder)
- SE6 - Thermofuse 6 (on fuse holder)
- SE7 - Thermofuse 7 (on fuse holder)
- T10e - 10-Pin connector, black, connector station A-pillar, left
- T10f - 10-Pin connector, black, connector station Door passenger side
- T10g - 10-Pin connector
- T10h - 10-Pin connector
- T10r - 10-Pin connector
- T10s - 10-Pin connector
- T10t - 10-Pin connector, black, connector station Fonddoor, left
- T10u - 10-Pin connector, black, connector station Fonddoor right
- Z42 - Left Rear Footwell Heater
- Z43 - Right Rear Footwell Heater

- (B300) - Plus Connection 4 (30) (in main wiring harness)
- (B324) - Plus Connection 10 (30a) (in main wiring harness)
- (B325) - Plus Connection 11 (30a) (in main wiring harness)

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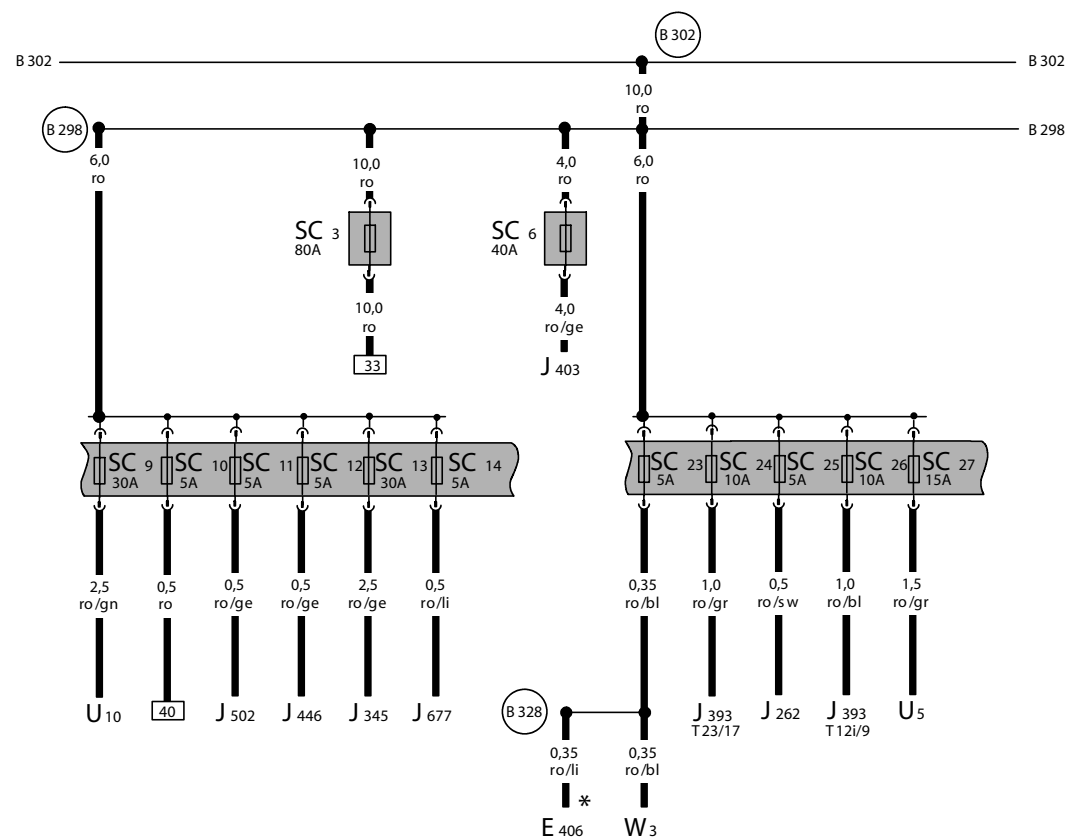
Fuses

- E406 - Rear Lid Lock Button (in luggage compartment)
- J262 - Rear Window Shade Control Module
- J345 - Control Module for towing sensor
- J393 - Central control module for comfort system
- J403 - Relay for compressor level control system
- J446 - Control module for parking aid
- J502 - Tire Pressure Monitoring Control Module
- J677 - Fuel Filler Lid Unlock Relay
- SC3 - Fuse 3 (in fuse holder)
- SC6 - Fuse 6 (in fuse holder)
- SC9 - Fuse 9 (in fuse holder)
- SC10 - Fuse 10 (in fuse holder)
- SC11 - Fuse 11 (in fuse holder)
- SC12 - Fuse 12 (in fuse holder)
- SC13 - Fuse 13 (in fuse holder)
- SC14 - Fuse 14 (in fuse holder)
- SC23 - Fuse 23 (in fuse holder)
- SC24 - Fuse 24 (in fuse holder)
- SC25 - Fuse 25 (in fuse holder)
- SC26 - Fuse 26 (in fuse holder)
- SC27 - Fuse 27 (in fuse holder)
- T12i - 12-Pin connector
- T23 - 23-Pin connector
- U5 - 12 V Socket
- U10 - Trailer Socket
- W3 - Luggage compartment Light

- (B298) - Plus Connection 2 (30) (in main wiring harness)
- (B302) - Plus Connection 6 (30) (in main wiring harness)
- (B328) - Plus Connection 14 (30a) (in main wiring harness)

* - Vehicles with Power closing assist

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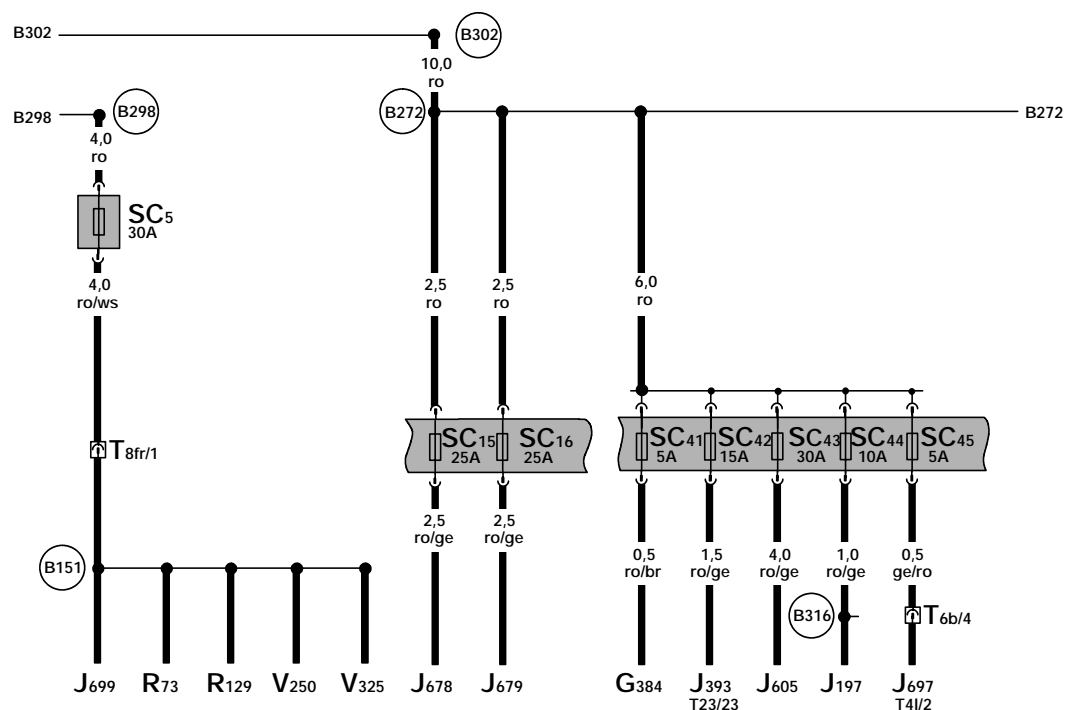


Fuses

- G384 - Vehicle Inclination Sensor
- J197 - Level Control System Control Module
- J393 - Central control module for comfort system
- J605 - Rear Lid Control Module
- J678 - Heated Rear Window Circuit 1 Relay
- J679 - Heated Rear Window Circuit 2 Relay
- J697 - License Plate Light Control Module
- J699 - Refrigerator
- R73 - Fax equipment
- R129 - Video Recorder/DVD-player
- SC5 - Fuse 5 (in fuse holder)
- SC15 - Fuse 15 (in fuse holder)
- SC16 - Fuse 16 (in fuse holder)
- SC41 - Fuse 41 (in fuse holder)
- SC42 - Fuse 42 (in fuse holder)
- SC43 - Fuse 43 (in fuse holder)
- SC44 - Fuse 44 (in fuse holder)
- SC45 - Fuse 45 (in fuse holder)
- T4l - 4-Pin connector
- T6b - 6-Pin connector, black
- T8fr - 8-Pin connector, black
- T23 - 23-Pin connector
- V250 - Folding Table Motor
- V325 - Folding Table Motor 2

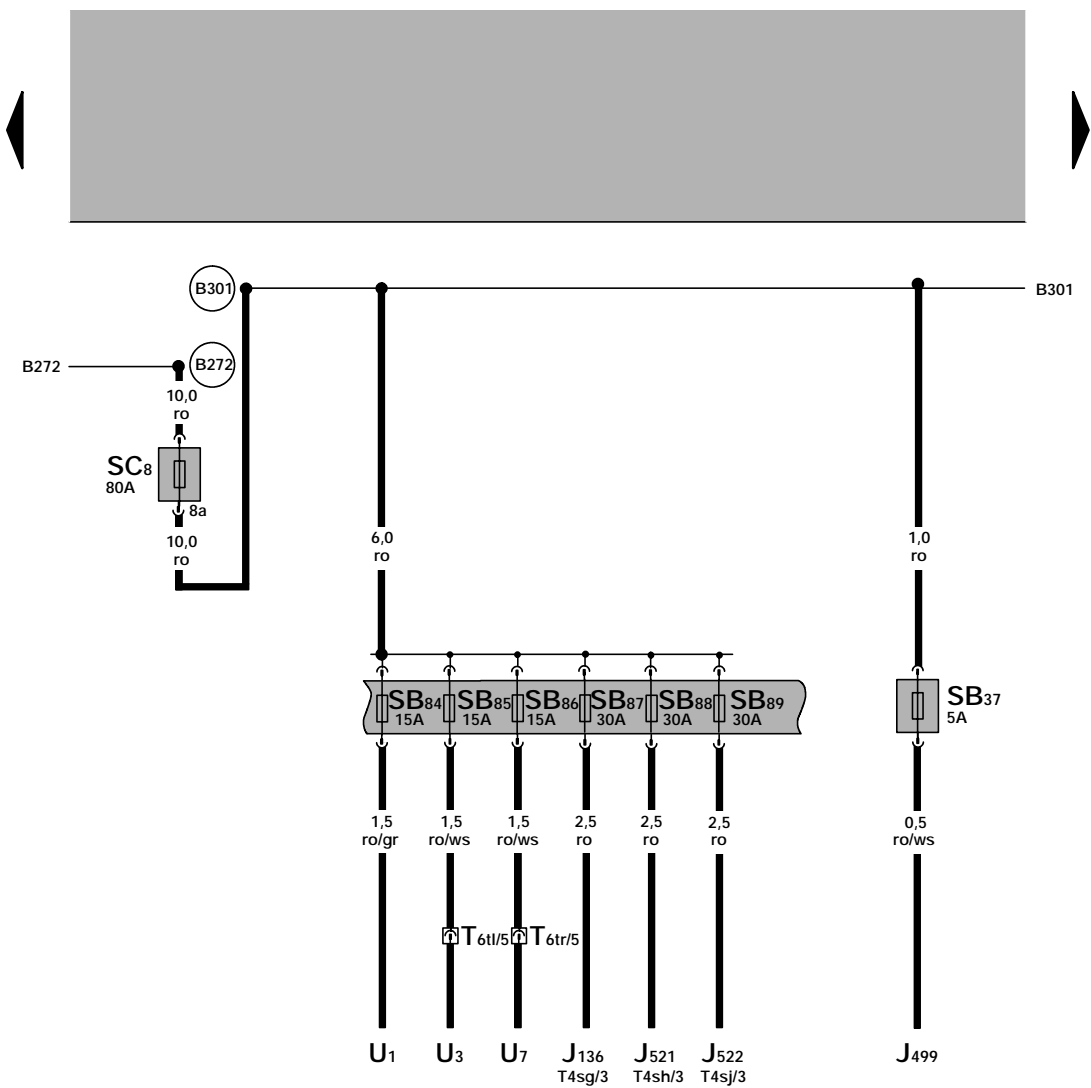
- (B151) - Plus connector -3- (30a), in wiring harness interior
- (B272) - Plus Connection (30) (in main wiring harness)
- (B298) - Plus Connection 2 (30) (in main wiring harness)
- (B302) - Plus Connection 6 (30) (in main wiring harness)
- (B316) - Plus Connection 2 (30a) (in main wiring harness)

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

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- Fuses
- J136

-

Memory Seat/Steering Column Adjustment Control Module
- J499

-

Telematic Control Module
- J521

-

Passenger Memory Seat Control Module
- J522

-

Rear Memory Seat Control Module
- SC8

-

Fuse 8 (in fuse holder)
- SB37

-

Fuse 37 (in fuse holder)
- SB84

-

Fuse 84 (in fuse holder)
- SB85

-

Fuse 85 (in fuse holder)
- SB86

-

Fuse 86 (in fuse holder)
- SB87

-

Fuse 87 (in fuse holder)
- SB88

-

Fuse 88 (in fuse holder)
- SB89

-

Fuse 89 (in fuse holder)
- T4sg

-

4-Pin connector, black
- T4sh

-

4-Pin connector, black
- T4sj

-

4-Pin connector, black
- T6tl

-

6-Pin connector, black, red, connector station B-pillar, left
- T6tr

-

6-Pin connector, red, connector station B-pillar, right
- U1

-

Cigarette Lighter
- U3

-

Left Rear Cigarette Lighter
- U7

-

Right Rear Cigarette Lighter
- B272

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Plus Connection (30) (in main wiring harness)
- B301

-

Plus Connection 5 (30) (in main wiring harness)

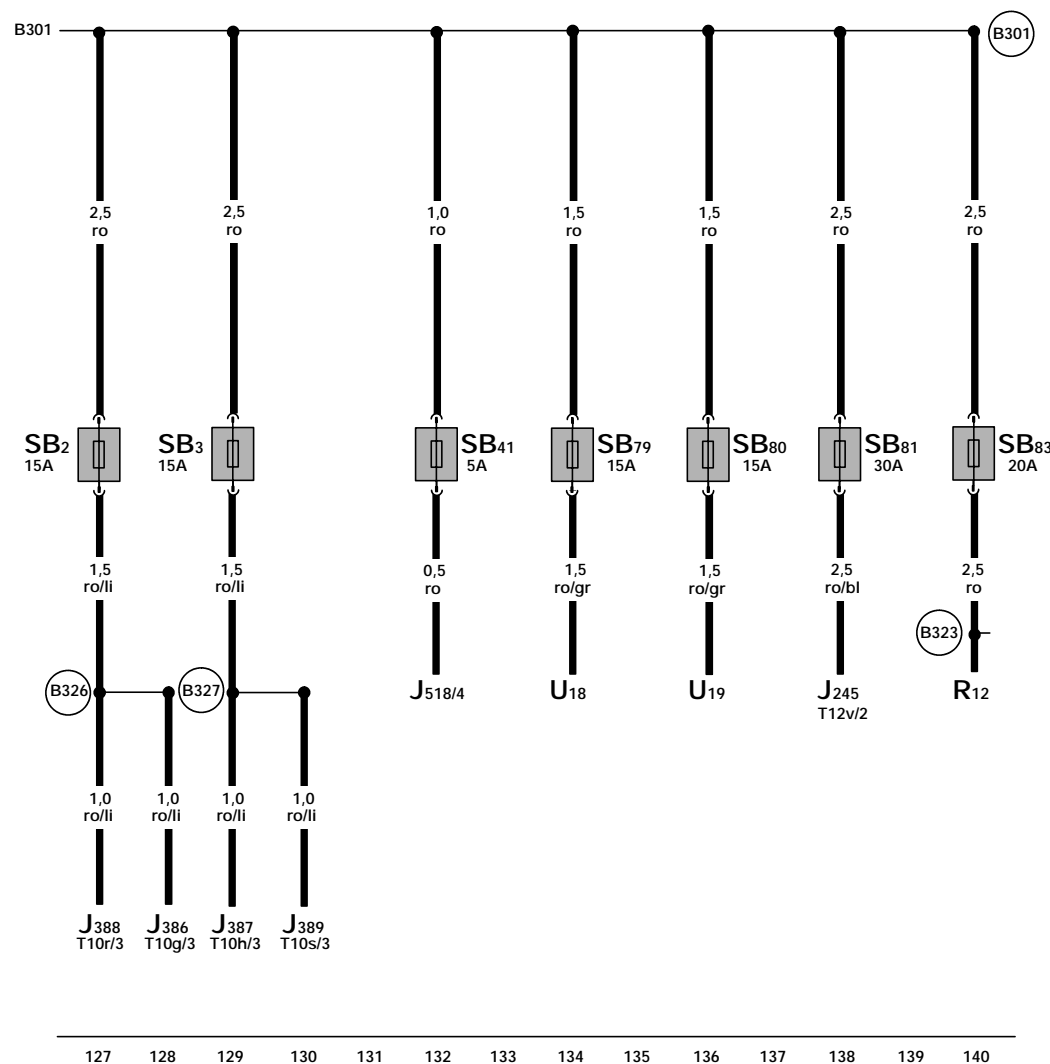
ws = white
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bl = blue
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li = lilac
ge = yellow
or = orange

Fuses

- J245 - Power Sunroof Control Module
- J386 - Door control module, driver side
- J387 - Door control module, passenger side
- J388 - Door control module, rear, left
- J389 - Door control module, rear, right
- J518 - Access/Start Control Module
- R12 - Amplifier
- SB2 - Fuse 2 (in fuse holder)
- SB3 - Fuse 3 (in fuse holder)
- SB41 - Fuse 41 (in fuse holder)
- SB79 - Fuse 79 (in fuse holder)
- SB80 - Fuse 80 (in fuse holder)
- SB81 - Fuse 81 (in fuse holder)
- SB83 - Fuse 83 (in fuse holder)
- T10g - 10-Pin connector
- T10h - 10-Pin connector
- T10r - 10-Pin connector
- T10s - 10-Pin connector
- T12v - 12-Pin connector
- U18 - 12V outlet -2-, Center Console, front
- U19 - 12V outlet -3-, Center Console, rear

- (B301) - Plus Connection 5 (30) (in main wiring harness)
- (B323) - Plus Connection 9 (30a) (in main wiring harness)
- (B326) - Plus Connection 12 (30a) (in main wiring harness)
- (B327) - Plus Connection 13 (30a) (in main wiring harness)

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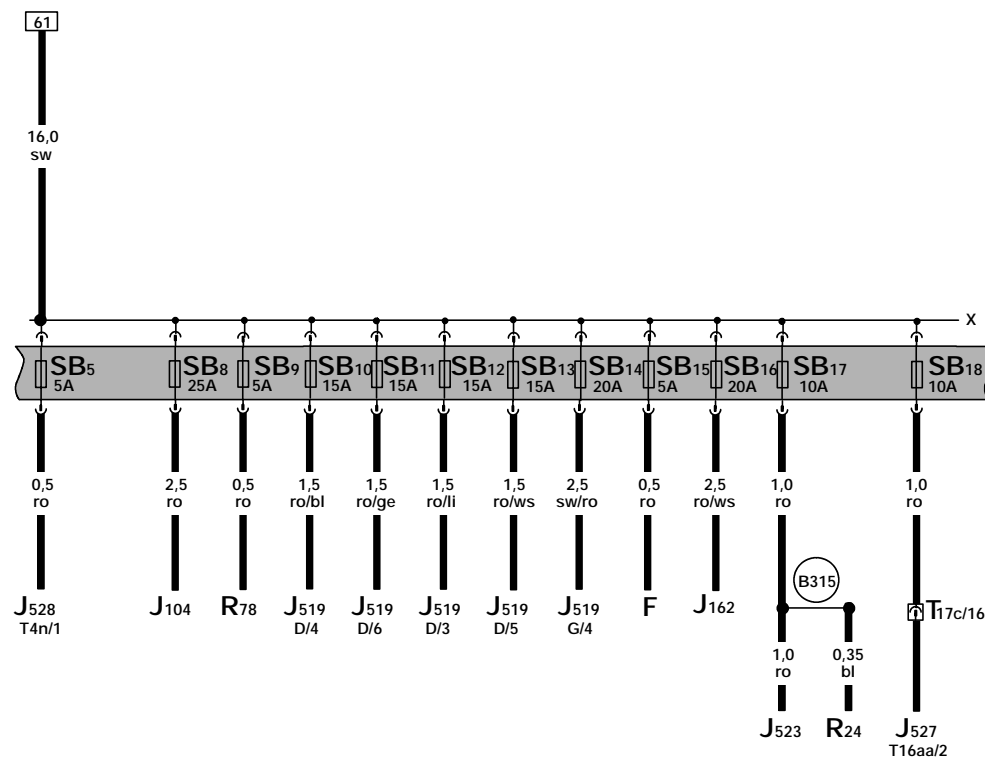


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Fuses

- F - Brake Light Switch
- J104 - ABS Control Module (w/EDL)
- J162 - Heater Control Module
- J519 - Vehicle Electrical System Control Module
- J523 - Front Information Display Control Head Control Module
- J527 - Steering Column Electronic Systems Control Module
- J528 - Roof Electronics Control Module
- R24 - Antenna Amplifier
- R78 - TV Tuner
- SB5 - Fuse 5 (in fuse holder)
- SB8 - Fuse 8 (in fuse holder)
- SB9 - Fuse 9 (in fuse holder)
- SB10 - Fuse 10 (in fuse holder)
- SB11 - Fuse 11 (in fuse holder)
- SB12 - Fuse 12 (in fuse holder)
- SB13 - Fuse 13 (in fuse holder)
- SB14 - Fuse 14 (in fuse holder)
- SB15 - Fuse 15 (in fuse holder)
- SB16 - Fuse 16 (in fuse holder)
- SB17 - Fuse 17 (in fuse holder)
- SB18 - Fuse 18 (in fuse holder)
- T4n - 4-Pin connector
- T16aa- 16-Pin connector
- T17c - 17-Pin connector, black

(B315) - Plus Connection 1 (30a) (in main wiring harness)



ws = white
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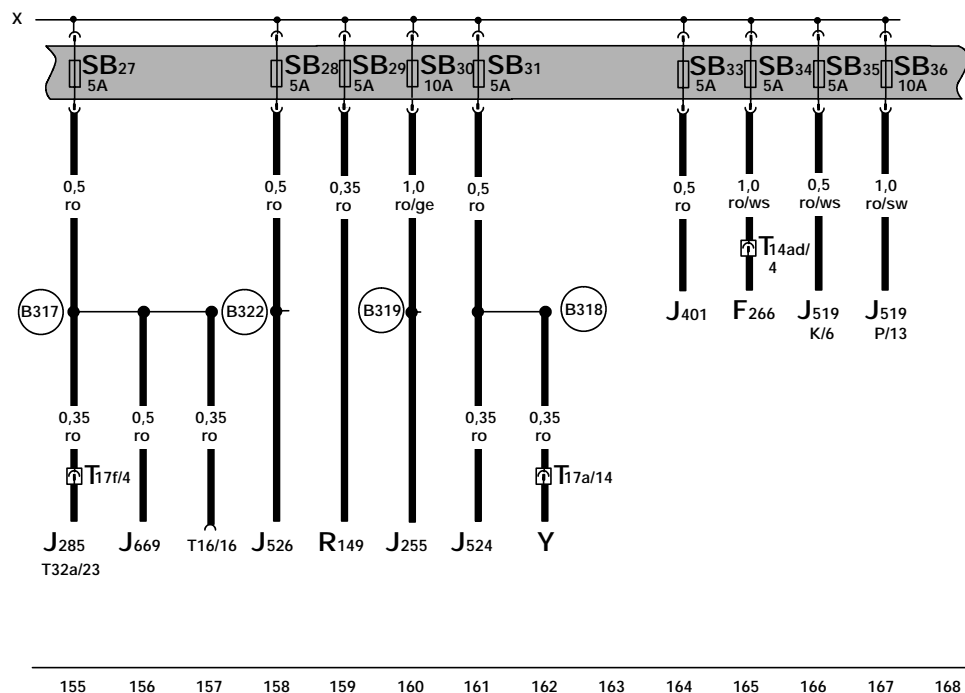
97-35955

Fuses

- F266 - Front Hood Switch
- J255 - Climatronic Control Module
- J285 - Control module with indicator unit in instrument panel insert
- J401 - Control module for navigation with CD-mechanism
- J519 - Vehicle Electrical System Control Module
- J524 - Rear Information Display Control Head
- J526 - Telephone/Telematic Control Module
- J669 - Seat Belt Tensioner Relay
- R149 - Auxiliary Water Heating RF Receiver
- SB27 - Fuse 27 (in fuse holder)
- SB28 - Fuse 28 (in fuse holder)
- SB29 - Fuse 29 (in fuse holder)
- SB30 - Fuse 30 (in fuse holder)
- SB31 - Fuse 31 (in fuse holder)
- SB33 - Fuse 33 (in fuse holder)
- SB34 - Fuse 34 (in fuse holder)
- SB35 - Fuse 35 (in fuse holder)
- SB36 - Fuse 36 (in fuse holder)
- T14ad - 14-Pin connector, connector station 2 / in basic engine harness
- T16 - 16-Pin Connector, data link connector (DLC)
- T17a - 17-Pin Connector, grey, behind instrument panel, left
- T17f - 17-Pin Connector, green, behind instrument panel, left
- T32a - 32-Pin connector, blue, on instrument cluster
- Y - Analog Clock

- (B317) - Plus Connection 3 (30a) (in main wiring harness)
- (B318) - Plus Connection 4 (30a) (in main wiring harness)
- (B319) - Plus Connection 5 (30a) (in main wiring harness)
- (B322) - Plus Connection 8 (30a) (in main wiring harness)

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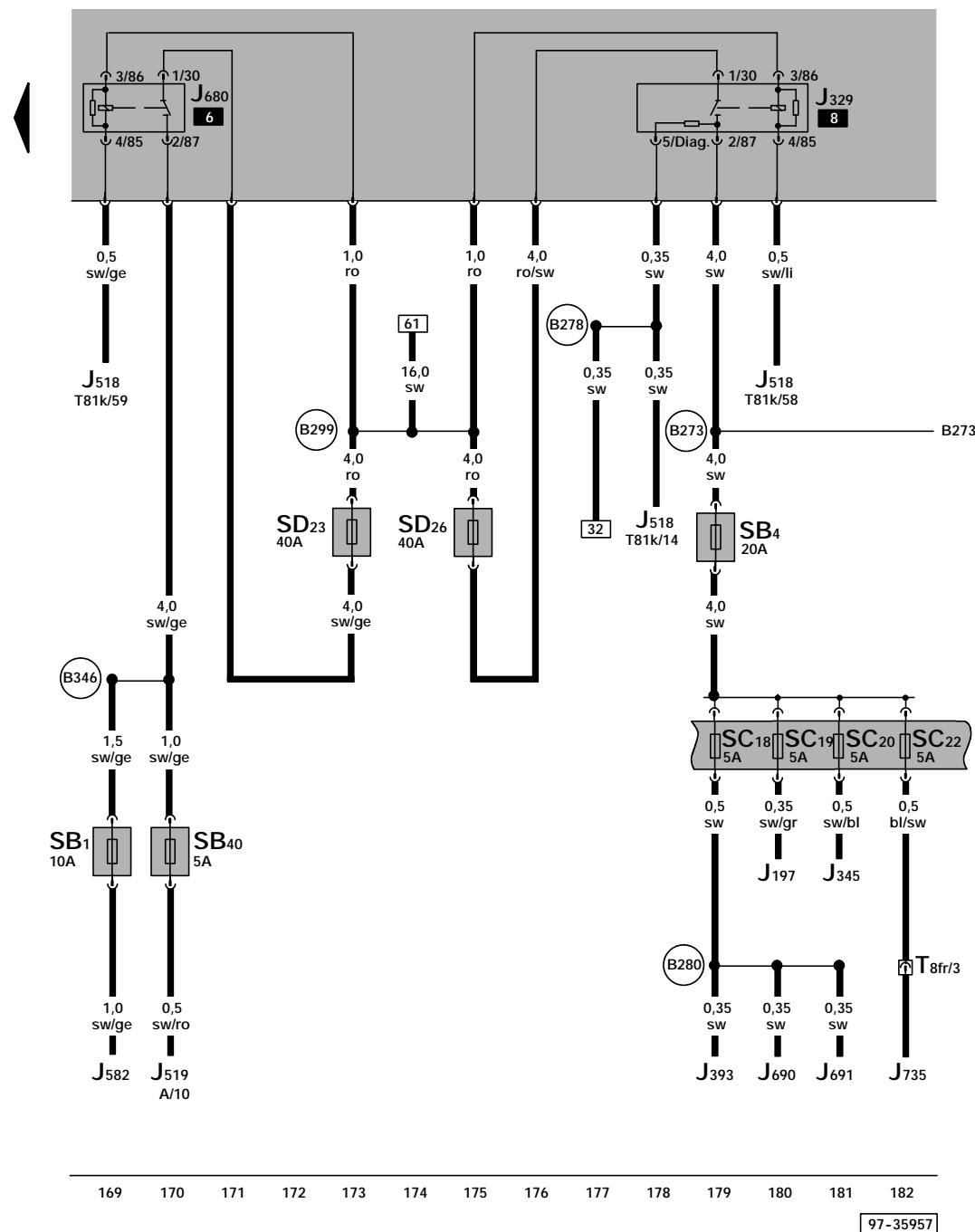
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Voltage Supply Terminal 15 Relay, Power Supply Relay 1

- J197 - Level Control System Control Module
- J329 - Voltage Supply Terminal 15 (B+) Relay
- J345 - Control Module for towing sensor
- J393 - Central control module for comfort system
- J518 - Access/Start Control Module
- J519 - Vehicle Electrical System Control Module
- J582 - Wiper Park Position Heating Relay
- J680 - Power Supply Relay 1 (terminal 75)
- J690 - Left Rear Tail Light Control Module
- J691 - Right Rear Tail Light Control Module
- J735 - Fax Machine/Refrigerator Relay
- SB1 - Fuse 1 (in fuse holder)
- SB4 - Fuse 4 (in fuse holder)
- SB40 - Fuse 40 (in fuse holder)
- SC18 - Fuse 18 (in fuse holder)
- SC19 - Fuse 19 (in fuse holder)
- SC20 - Fuse 20 (in fuse holder)
- SC22 - Fuse 22 (in fuse holder)
- SD23 - Fuse 23 (on fuse holder)
- SD26 - Fuse 26 (on fuse holder)
- T8fr - 8-Pin Connector, black
- T81k - 81-Pin Connector

- (B273) - Plus Connection (15) (in main wiring harness)
- (B278) - Plus Connection 2 (15a) (in main wiring harness)
- (B280) - Plus Connection 4 (15a) (in main wiring harness)
- (B299) - Plus Connection 3 (30) (in main wiring harness)
- (B346) - Connection 1 (75) (in main wiring harness)

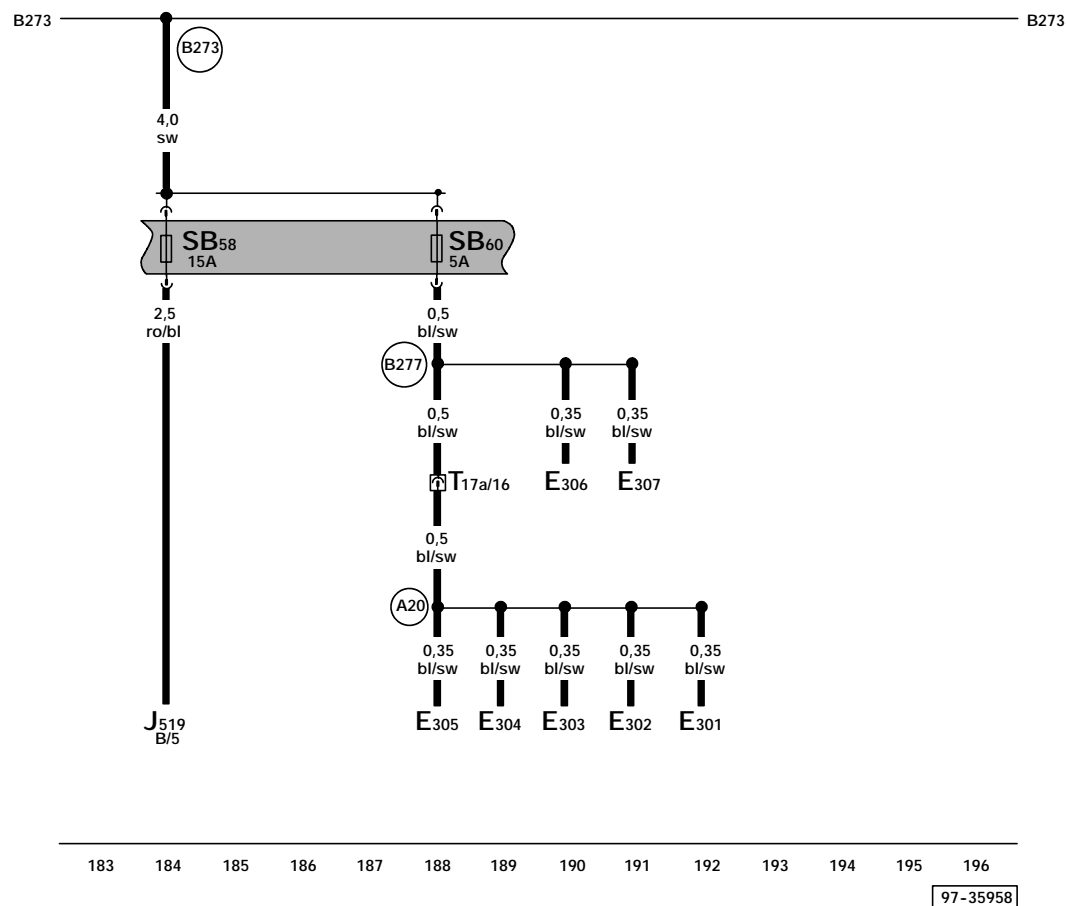
ws = white
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Fuses

- E301 - Left Front Air Outlet Button
- E302 - Left Front (Center) Air Outlet Button
- E303 - Right Front (Center) Air Outlet Button
- E304 - Right Front Air Outlet Button
- E305 - Footwell/Cabin Temperature Differential Button
- E306 - Left Rear Center Console Air Outlet Button
- E307 - Right Rear Center Console Air Outlet Button
- J519 - Vehicle Electrical System Control Module
- SB58 - Fuse 58 (in fuse holder)
- SB60 - Fuse 60 (in fuse holder)
- T17a - 17-Pin connector, grey, behind instrument panel, left

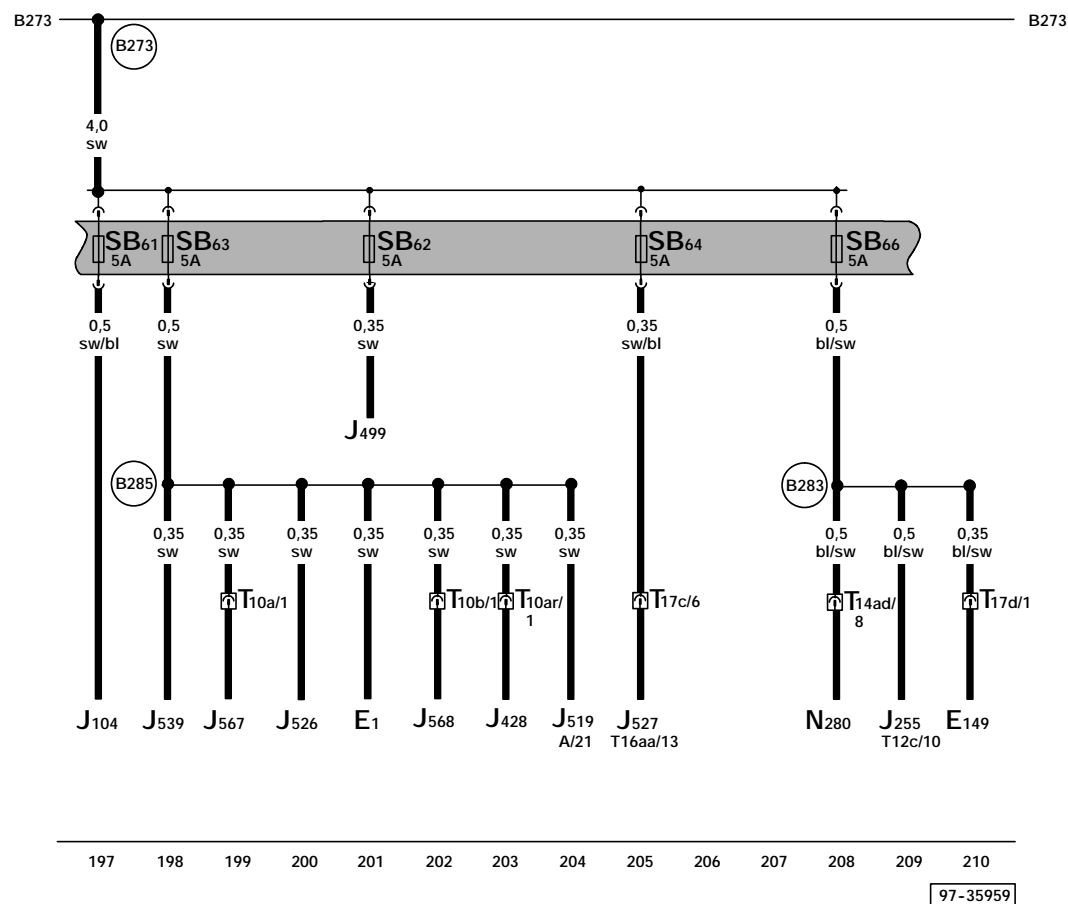
- (A20) - Plus Connection (15a) (in instrument panel wiring harness)
- (B273) - Plus Connection (15) (in main wiring harness)
- (B277) - Plus Connection 1 (15a) (in main wiring harness)



ws = white
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Fuses

- E1 - Light switch
- E149 - Rear Window Shade Switch
- J104 - ABS Control Module (w/EDL)
- J255 - Climatronic Control Module
- J428 - Control module for distance regulation
- J499 - Telematic Control Module
- J519 - Vehicle Electrical System Control Module
- J526 - Telephone/Telematic Control Module
- J527 - Steering Column Electronic Systems Control Module
- J539 - Brake Booster Control Module
- J567 - Left Headlight Range Control Module
- J568 - Right Headlight Range Control Module
- N280 - A/C Compressor Regulator Valve
- SB61 - Fuse 61 (in fuse holder)
- SB62 - Fuse 62 (in fuse holder)
- SB63 - Fuse 63 (in fuse holder)
- SB64 - Fuse 64 (in fuse holder)
- SB66 - Fuse 66 (in fuse holder)
- T10a - 10-Pin connector, on headlight left
- T10b - 10-Pin connector, on headlight right
- T10ar - 10-Pin connector
- T12c - 12-Pin connector
- T14ad - 14-Pin connector, connector station 2 / in basic engine harness
- T16aa - 16-Pin connector
- T17c - 17-Pin connector, black
- T17d - 17-Pin connector, behind instrument panel, left
- (B273) - Plus Connection (15) (in main wiring harness)
- (B283) - Plus Connection 7 (15a) (in main wiring harness)
- (B285) - Plus Connection 9 (15a) (in main wiring harness)



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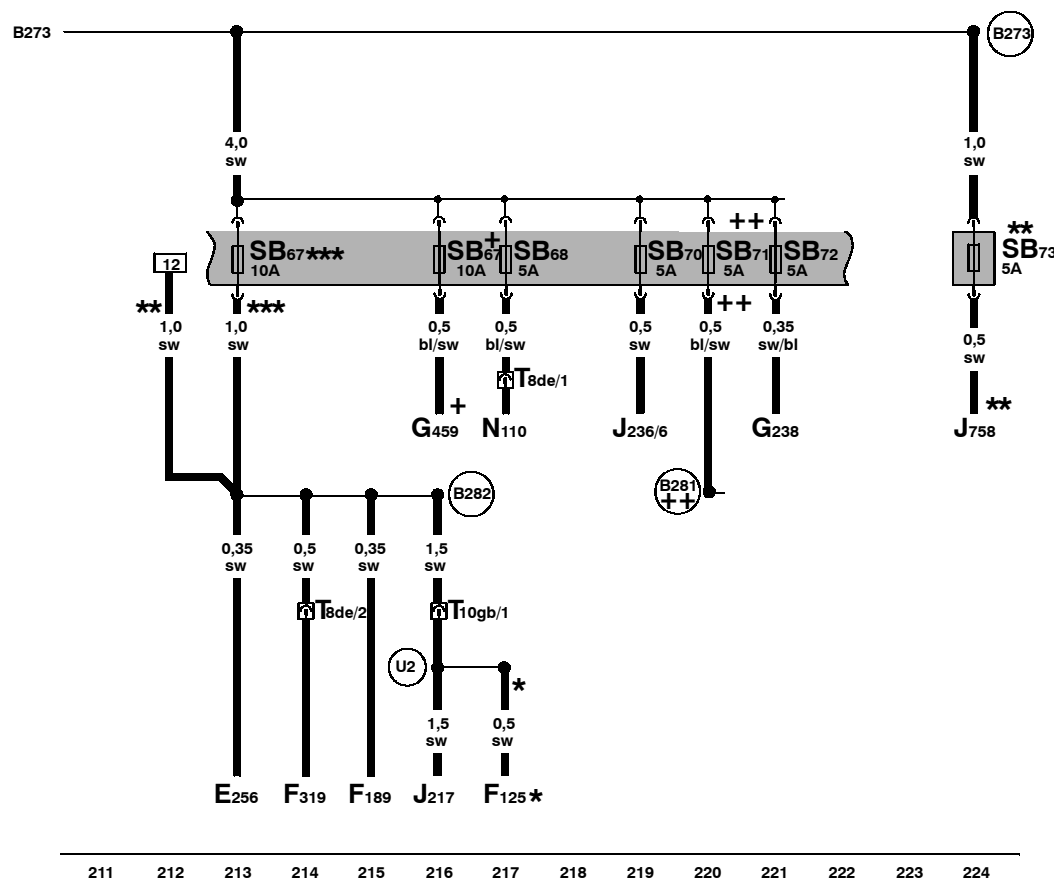
Fuses

- E256 - ASR/ESP Button
- F125 - Multi-Function Transmission Range (TR) Switch
- F189 - Tiptronic Switch
- F319 - Selector Lever Park Position Lock Switch
- G238 - Sensor for air quality
- G459 - Toll registration Sensor
- J217 - Transmission Control Module (TCM)
- J236 - Servotronic Control Module
- J758 - Telematics Switch-over Module * *
- N110 - Shift Lock Solenoid
- SB67 - Fuse 67 (in fuse holder) * * *
- SB68 - Fuse 68 (in fuse holder)
- SB70 - Fuse 70 (in fuse holder)
- SB71 - Fuse 71 (in fuse holder)
- SB72 - Fuse 72 (in fuse holder)
- SB73 - Fuse 73 (in fuse holder) * *
- T8de - 8-Pin Connector
- T10gb - 10-Pin Connector, black, Connector station 2 / transmission

- (B273) - Plus Connection (15) (in main wiring harness)
- (B281) - Plus Connection 5 (15a) (in main wiring harness)
- (B282) - Plus Connection 6 (15a) (in main wiring harness)
- (U2) - Connection 1 (15), in automatic transmission wiring harness

- * - Vehicles with automatic transmission, 5 speed automatic
- ** - from November 2003
- *** - through October 2003
- +
- ++ - Vehicles without Power seats (without memory)

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