

Power distribution (single battery system),

from June 2003

Notes:

Information for

- ◆ *Relay and fuse arrangements*
- ◆ *Connector arrangements*
- ◆ *Control Modules and Relays*
- ◆ *Ground connections*
- ⇒ *Component Locations!*

Information for

- ◆ *Troubleshooting Procedures*
- ⇒ *Guided Fault Finding using VAS 5051/5052*

- A - Battery
- 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)
- S330 - Fuse in wire connector
- 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

- 621 - Ground Connection (power circuit battery)
- 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)

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



(B325) - Plus Connection 11 (30a) (in main wiring harness)

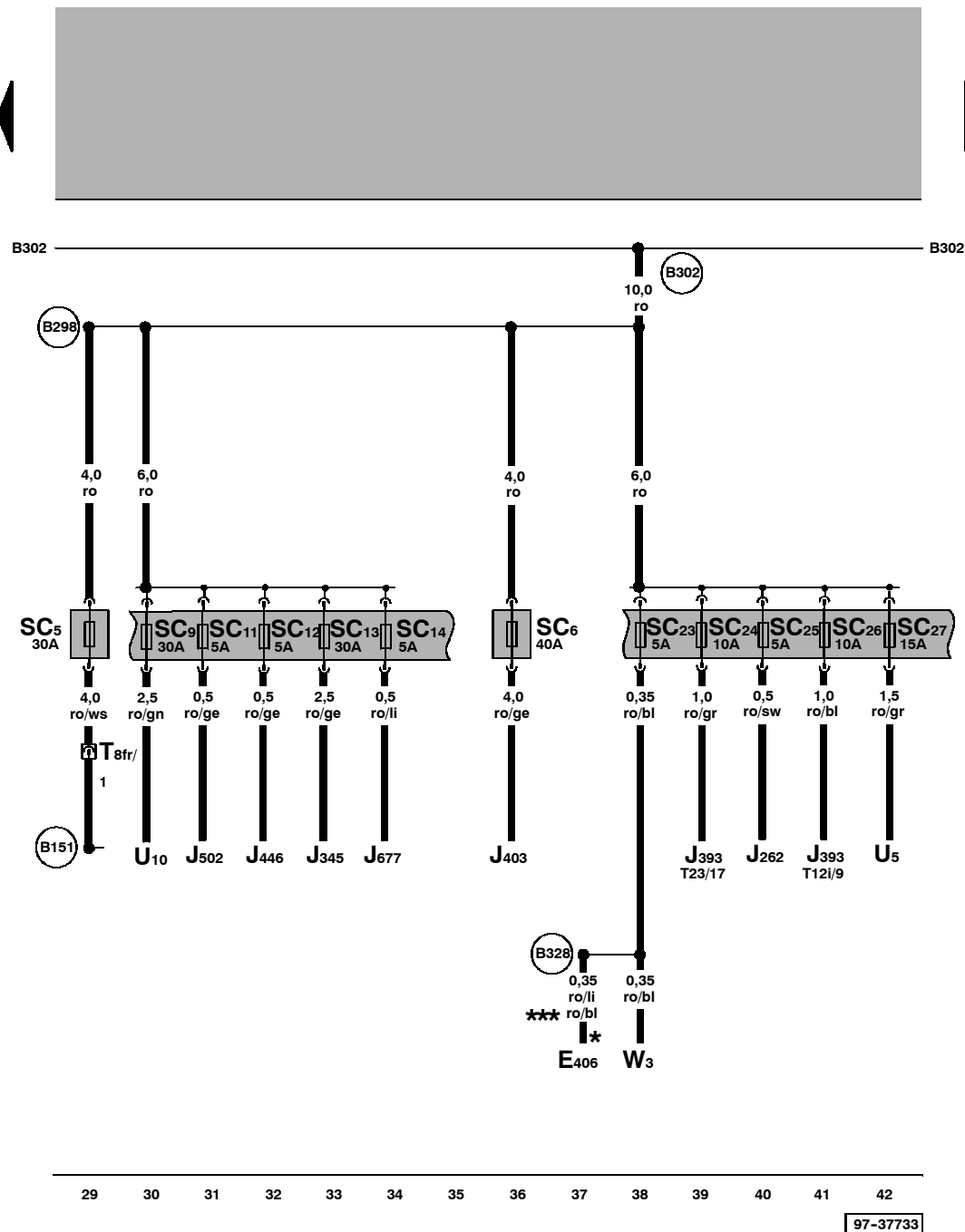
Fuses

- 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
- SC5 - Fuse 5 (in fuse holder)
- SC6 - Fuse 6 (in fuse holder)
- SC9 - Fuse 9 (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)
- T8fr - 8-Pin connector, black
- T12i - 12-Pin connector
- T23 - 23-Pin connector
- U5 - 12 V Socket
- U10 - Trailer Socket **
- W3 - Luggage compartment Light

- (B151) - Plus connector -3- (30a), in wiring harness interior
- (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
- ** - Not applicable to USA/CDN
- *** - from November 2003

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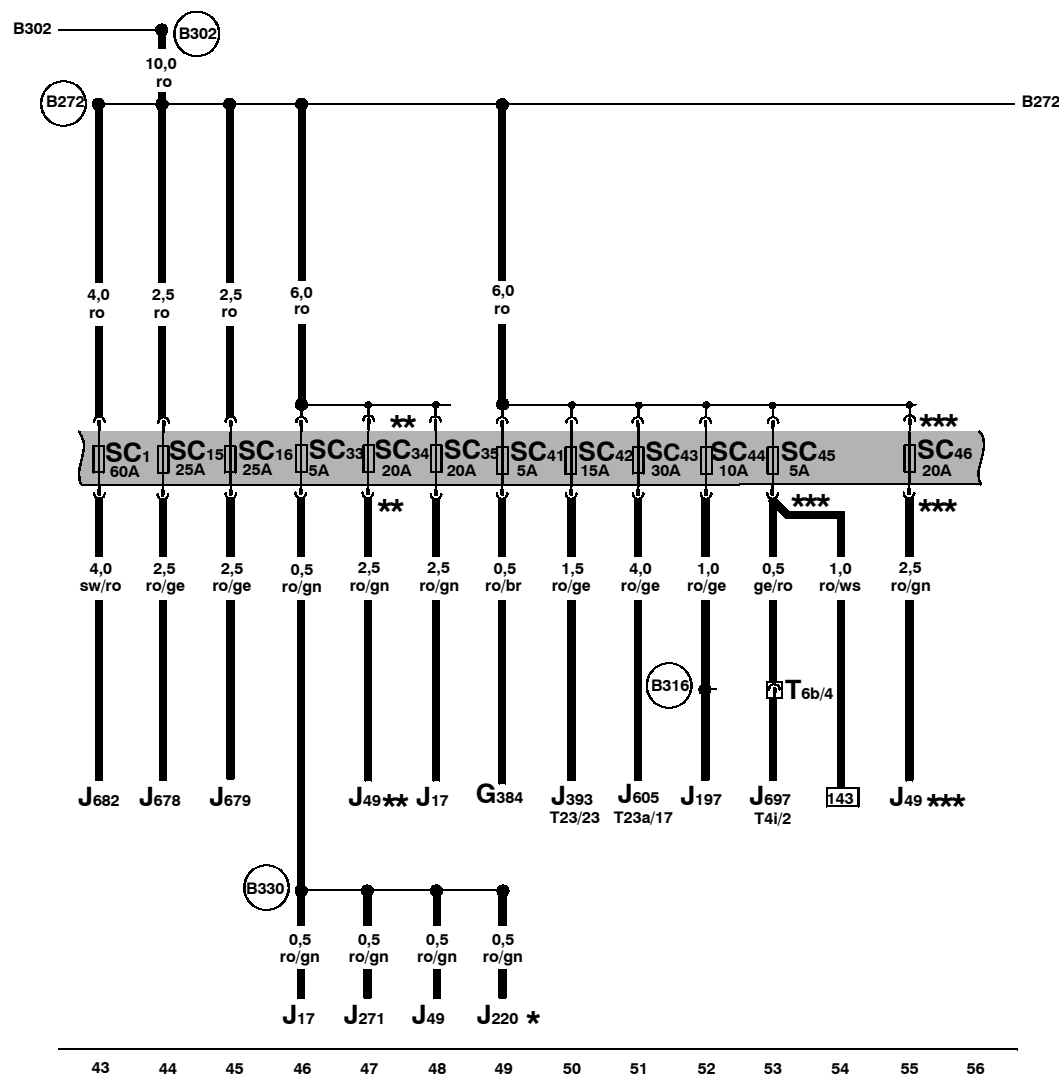
Fuses

- G384- Vehicle Inclination Sensor
 J17 - Fuel Pump (FP) Relay
 J49 - Fuel Pump (FP) 2 Relay **
 J197 - Level Control System Control Module
 J220 - Motronic Engine Control Module (ECM)
 J271 - Motronic Engine Control Module (ECM) Power Supply Relay
 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
 J682 - Power Supply Relay (terminal 50)
 J697 - License Plate Light Control Module
 SC1 - Fuse 1 (in fuse holder)
 SC15- Fuse 15 (in fuse holder)
 SC16- Fuse 16 (in fuse holder)
 SC33- Fuse 33 (in fuse holder)
 SC34- Fuse 34 (in fuse holder) **
 SC35- Fuse 35 (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)
 SC46- Fuse 46 (in fuse holder)
 T4i - 4-Pin Connector
 T6b - 6-Pin Connector, black
 T23 - 23-Pin Connector
 T23a - 23-Pin Connector

- (B272) - Plus Connection (30) (in main wiring harness)
 (B302) - Plus Connection 6 (30) (in main wiring harness)
 (B316) - Plus Connection 2 (30a) (in main wiring harness)
 (B330) - Plus Connection 16 (30a) (in main wiring harness)

- * - engine code BGH, BGJ only
 ** - through October 2003
 *** - from November 2003

ws = white
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Fuses

- J136 - Memory Seat/Steering Column Adjustment Control Module
- J521 - Passenger Memory Seat Control Module
- J522 - Rear Memory Seat Control Module
- 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)
- SC8 - Fuse 8 (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

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

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

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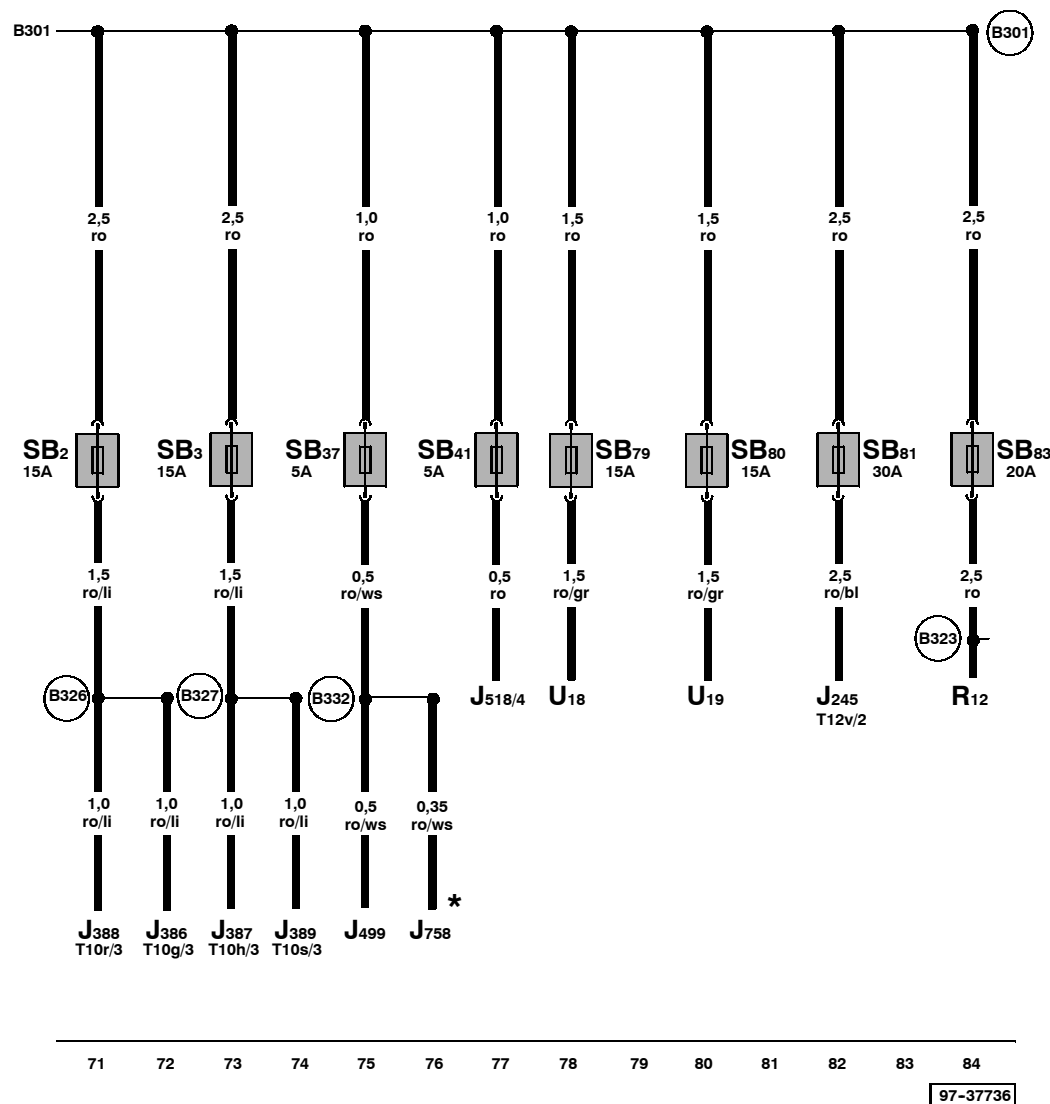
Fuses

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
 J499 - Telematic Control Module
 J518 - Access/Start Control Module
 J758 - Telematics Switch-over Module
 R12 - Amplifier
 SB2 - Fuse 2 (in fuse holder)
 SB3 - Fuse 3 (in fuse holder)
 SB37 - Fuse 37 (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)
 (B332) - Plus Connection 18 (30a) (in main wiring harness)

* - Telematics with Cellular Telephone preparation

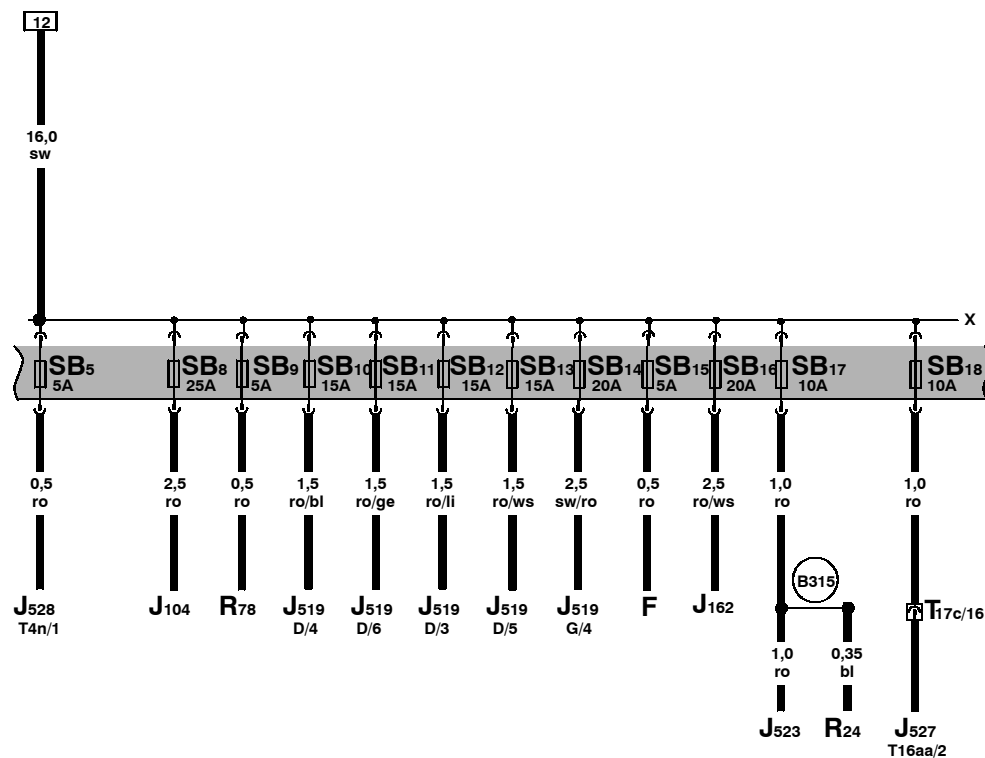
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Fuses

- 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)



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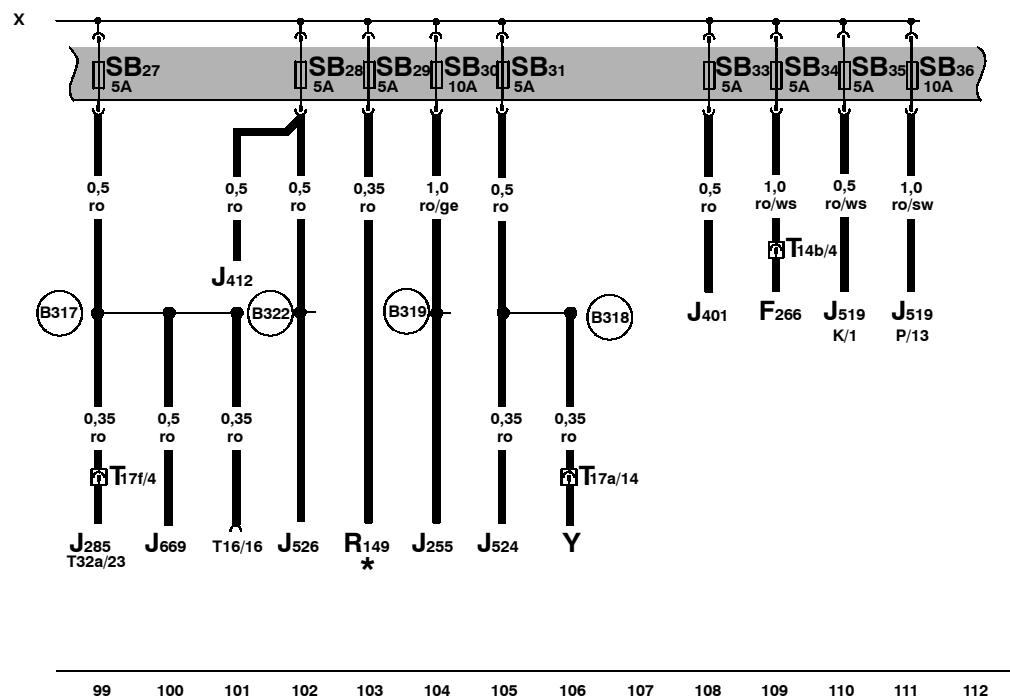
Fuses, Data Link Connector (DLC)

- 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
- J412 - Operating Electronics and Telephone Control Module
- J519 - Vehicle Electrical System Control Module
- J524 - Rear Information Display Control Head
- J526 - Telephone/Telematics 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)
- T14b - 14-Pin Connector, behind instrument panel, left
- T16 - 16-Pin Connector, black, Data Link Connector (DLC), under instrument panel, left
- 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)

* - Not applicable to USA/CDN

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- J217 - Transmission Control Module (TCM)
- J285 - Control module with indicator unit in instrument panel insert
- J329 - Voltage Supply Terminal 15 (B+) Relay
- J518 - Access/Start Control Module
- J519 - Vehicle Electrical System Control Module
- J582 - Wiper Park Position Heating Relay
- J680 - Power Supply Relay 1 (terminal 75)
- J758 - Telematic Switching Unit
- SB1 - Fuse 1 (in fuse holder)
- SB19- Fuse 19 (in fuse holder)
- SB20- Fuse 20 (in fuse holder)
- SB23- Fuse 23 (in fuse holder)
- SB40- Fuse 40 (in fuse holder)
- SB73- Fuse 73 (in fuse holder)
- SD21- Fuse 21 (on fuse holder)
- SD23- Fuse 23 (on fuse holder)
- SD26- Fuse 26 (on fuse holder)
- T10gb- 10-Pin Connector, black, connector station 2 / transmission
- T17g - 17-Pin Connector, red, behind instrument panel, left
- T81k - 81-Pin Connector

- ⓑ273 - Plus Connection (15) (in main wiring harness)
- ⓑ278 - Plus Connection 2 (15a) (in main wiring harness)
- ⓑ299 - Plus Connection 3 (30) (in main wiring harness)
- ⓑ308 - Plus Connection 12 (30) (in main wiring harness)
- ⓑ346 - Connection 1 (75) (in main wiring harness)

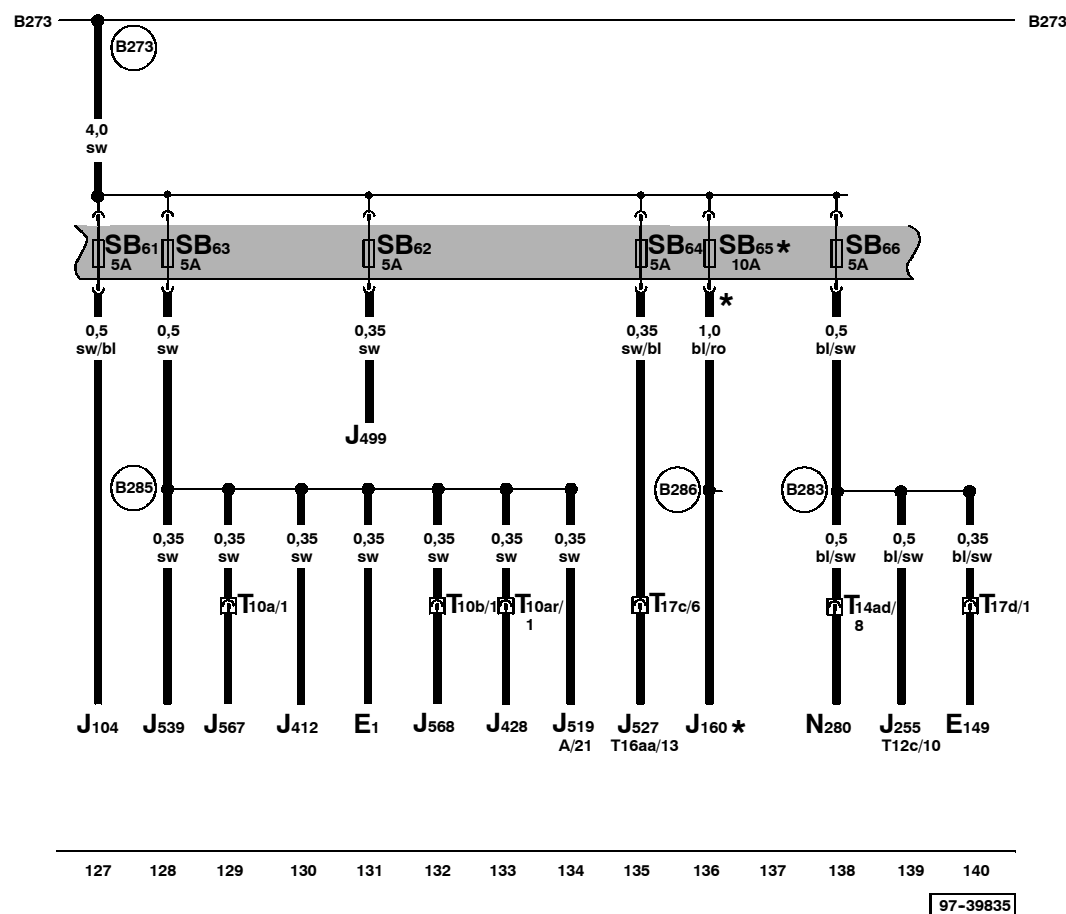
- * - engine code BGJ & BGH only from November 2003
- ** - engine code BAP only from November 2003

Fuses

- E1 - Light switch
- E149 - Rear Window Shade Switch
- J104 - ABS Control Module
- J160 - Recirculation Pump Relay *
- J255 - Climatronic Control Module
- J412 - Operating Electronics and Telephone Control Module
- J428 - Control module for distance regulation
- J499 - Telematics Control Module
- J519 - Vehicle Electrical System 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)
- SB65 - Fuse 65 (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)
- (B286) - Plus Connection 10 (15a) (in main wiring harness)
- * - without auxiliary heater only

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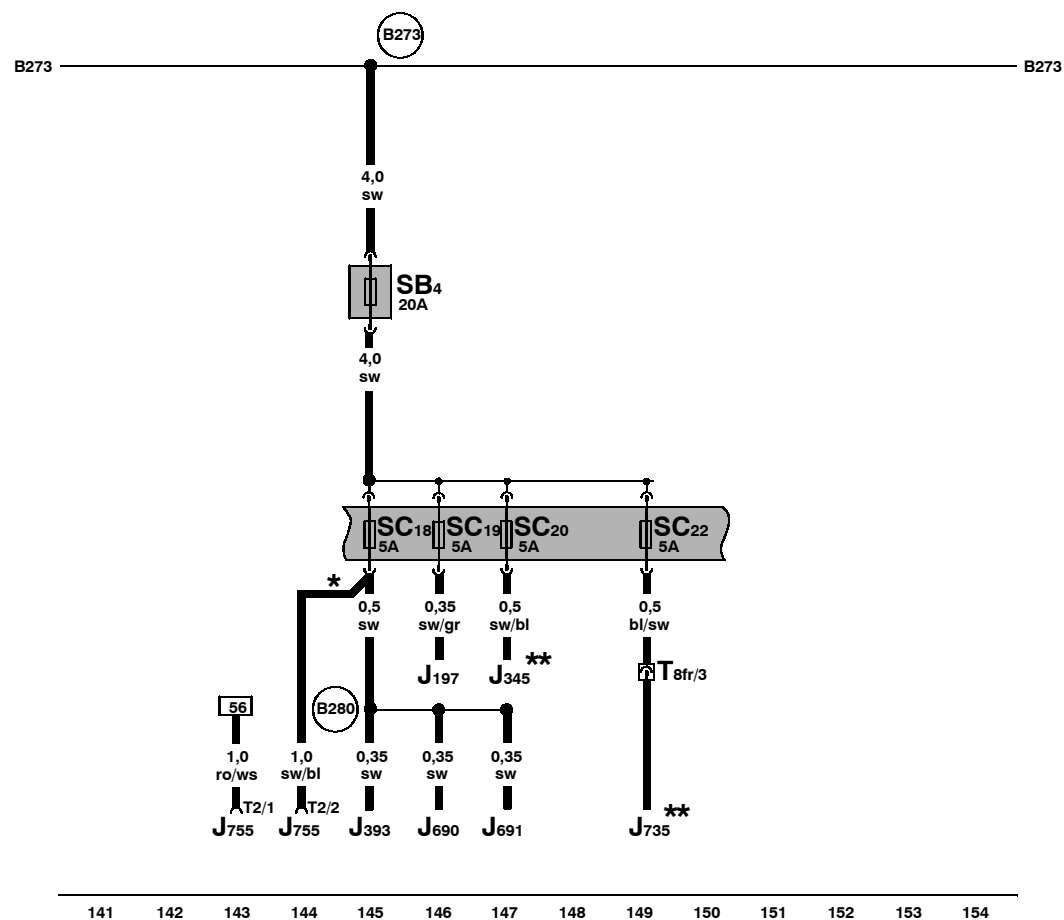


Fuses

- J197 - Level Control System Control Module
- J345 - Control Module for towing sensor**
- J393 - Central control module for comfort system
- J690 - Left Rear Tail Light Control Module
- J691 - Right Rear Tail Light Control Module
- J735 - Fax Machine/Refrigerator Relay**
- J755 - Transport Mode Relay
- SB4 - Fuse 4 (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)
- T2 - Double Connector
- T8fr - 8-Pin Connector, black

- (B273) - Plus Connection (15) (in main wiring harness)
- (B280) - Plus Connection 4 (15a) (in main wiring harness)

- * - from November 2003
- ** - Not applicable to USA/CDN



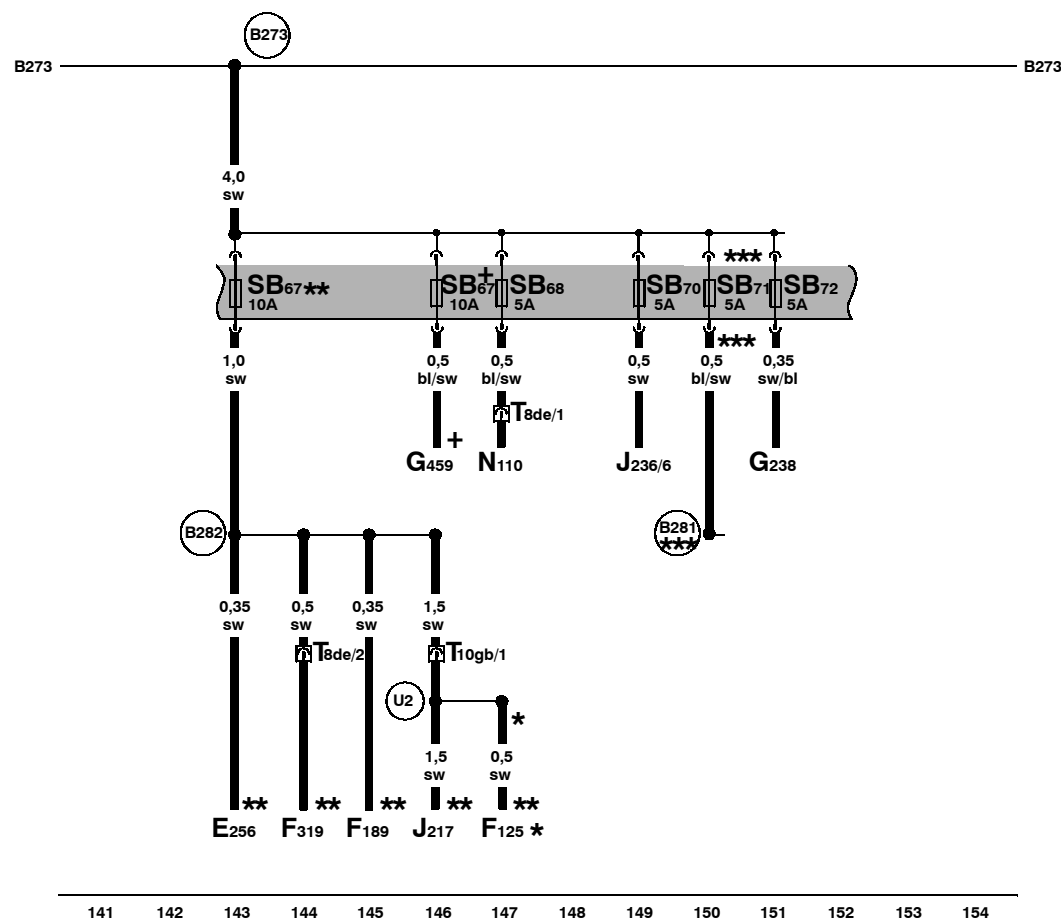
Fuses

- 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
 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)
 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
 ** - through October 2003
 *** - Vehicles without Power seats (without memory)
 + - from May 2004 (not applicable to USA/CDN)

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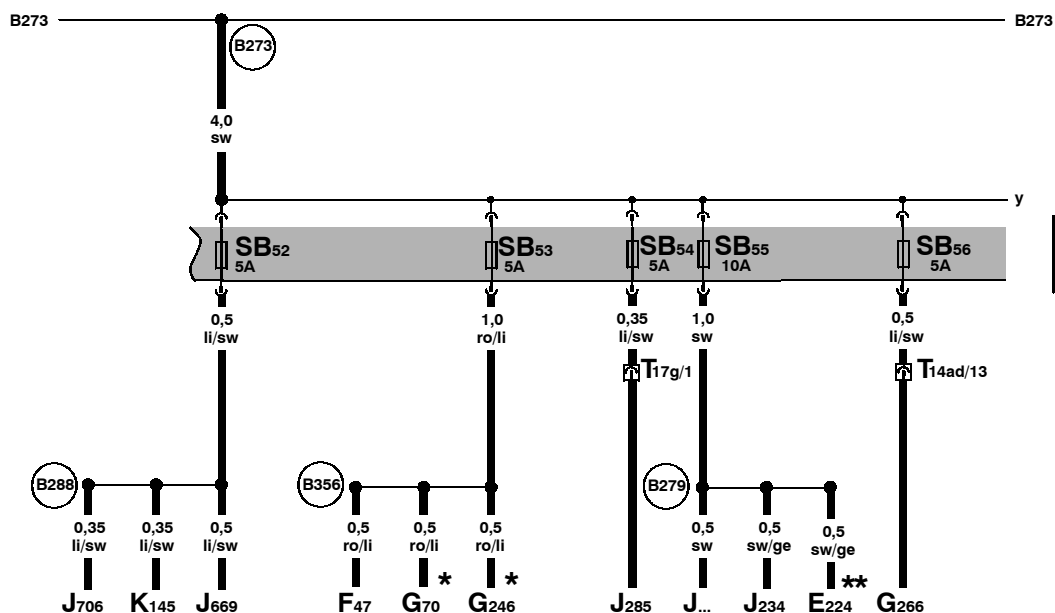
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Fuses

- E224 - Front Passenger's Airbag Key Switch**
- F47 - Brake Pedal Switch
- 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
- J706 - Seat Occupied Recognition Control Module
- K145 - Warning light for airbag off, passenger side
- 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

- (B273) - Plus Connection (15) (in main wiring harness)
- (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)

- * - engine code BGJ, BGH only
- ** - Not applicable to USA/CDN



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- * - from November 2003
- ** - Vehicles with automatic transmission, 5 speed automatic

Edition 04.04