Basic equipment
From November 2010
Fuse 5 on fuse holder C, Fuse 39 on fuse holder C

SF1  Fuse 1 in fuse holder F
SA4  Fuse 4 in fuse holder A
SC5  Fuse 5 on fuse holder C
SA5  Fuse 5 in fuse holder A
SC7  Fuse 7 on fuse holder C
SC13 Fuse 13 on fuse holder C
SC15 Fuse 15 on fuse holder C
SC16 Fuse 16 on fuse holder C
SC39 Fuse 39 on fuse holder C
T16d 16-pin connector

(B291) Positive connection 15 (15a) in main wiring harness
(B330) Positive connection 16 (30a) in main wiring harness
(B331) Positive connection 17 (30a) in main wiring harness
(B557) Positive connection 21 (30a) in main wiring harness

* Only models with battery in luggage compartment
*2 Fuses in E-box, High
*3 Fuses in E-box, Low

Passat

Current Flow Diagram

No. 1 / 3

https://www.automotive-manuals.net/
Bonnet contact switch, Treble horn, Bass horn, Dual tone horn relay, Onboard supply control unit

- **F266** Bonnet contact switch
- **H2** Treble horn
- **H7** Bass horn
- **J4** Dual tone horn relay
- **J519** Onboard supply control unit
- **SB3** Fuse 3 on fuse holder B
- **SB5** Fuse 5 on fuse holder B
- **SA5** Fuse 5 in fuse holder A
- **SA6** Fuse 6 in fuse holder A
- **SC32** Fuse 32 on fuse holder C
- **SC33** Fuse 33 on fuse holder C
- **T4vw** 4-pin connector, behind right headlight
- **T40** 40-pin connector
- **T52a** 52-pin connector, black
- **T52b** 52-pin connector, white

- **279** Earth connection 5, in interior wiring harness
- **685** Earth point 1 at front of right longitudinal member
- **B315** Positive connection 1 (30a) in main wiring harness
- **B465** Connection 1, in main wiring harness

* Fuses in E-box, Low
*2 Only models with battery in luggage compartment
*3 Fuses in E-box, High

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**Passat**

*Current Flow Diagram*

No. 1 / 4

[Diagram URL: https://www.automotive-manuals.net/]
Onboard supply control unit, Front left headlight, Front right headlight

J519  Onboard supply control unit
MX1  Front left headlight
MX2  Front right headlight
M3  Right side light bulb
M5  Front left turn signal bulb
M7  Front right turn signal bulb
M29  Left headlight dipped beam bulb
M30  Left headlight main beam bulb
M31  Right headlight dipped beam bulb
M32  Right headlight main beam bulb
T10aw  10-pin connector
T10q  10-pin connector
T52a  52-pin connector, black
T52c  52-pin connector, brown
V48  Left headlight range control motor
V49  Right headlight range control motor

371  Earth connection 6, in main wiring harness
673  Earth point 3, on front of left longitudinal member
B282  Positive connection 6 (15a) in main wiring harness
B457  Connection 1 (potentiometer), in main wiring harness
B476  Connection 12, in main wiring harness

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

https://www.automotive-manuals.net/
Switch and instrument illumination regulator, Headlight range control regulator, Onboard supply control unit

- **E20**: Switch and instrument illumination regulator
- **E102**: Headlight range control regulator
- **J519**: Onboard supply control unit
- **L76**: Button illumination bulb
- **T8g**: 8-pin connector
- **T52a**: 52-pin connector, black
- **T52b**: 52-pin connector, white
- **T52c**: 52-pin connector, brown

- **42**: Earth point, next to steering column
- **238**: Earth connection 1, in interior wiring harness
- **277**: Earth connection 3, in interior wiring harness
- **639**: Earth point, left A-pillar
- **B282**: Positive connection 6 (15a) in main wiring harness
- **B457**: Connection 1 (potentiometer), in main wiring harness
- **B476**: Connection 12, in main wiring harness

* Only models with stop/start system

---

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

Current Flow Diagram

[Diagram of wiring connections]
Light switch, Hazard warning lights button, Onboard supply control unit

- E1 Light switch
- E7 Fog light switch
- E18 Rear fog light switch
- E229 Hazard warning lights button
- J519 Onboard supply control unit
- K6 Indicator lamp for hazard warning light
- L9 Light switch illumination bulb
- T6dh 6-pin connector
- T10j 10-pin connector
- T52a 52-pin connector, black
- T52b 52-pin connector, white
- T52c 52-pin connector, brown

- 249 Earth connection 2, in interior wiring harness
- 639 Earth point, left A-pillar
- B341 Connection 2 (58d), in main wiring harness
Electronic ignition lock, Onboard supply control unit, Steering column electronics control unit, Control unit for electronic steering column lock

- D1 Immobiliser reading unit
- D9 Electronic ignition lock
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- J764 Control unit for electronic steering column lock
- L76 Button illumination bulb
- N376 Ignition key withdrawal lock solenoid
- SB9 Fuse 9 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- T10k 10-pin connector
- T16f 16-pin connector
- T16o 16-pin connector
- T40 40-pin connector
- T52b 52-pin connector, white
- T52c 52-pin connector, brown

**249** Earth connection 2, in interior wiring harness

**B259** Connection (start/stop signal), in interior wiring harness

* Fuses in E-box, Low
*2 Fuses in E-box, High
*3 see applicable current flow diagram for engine
*4 Only models with no start/stop system
*5 Only models with stop/start system
*6 Only models with Tiptronic

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

Passat
Current Flow Diagram
No. 1 / 8

https://www.automotive-manuals.net/
Steering column combination switch, Steering column electronics control unit

E22  Intermittent wiper switch
E34  Rear wiper switch
E38  Intermittent wiper regulator
E44  Washer pump switch (automatic wash/wipe and headlight washer system)
E86  Multifunction display call-up button
E92  Reset button
E227 Cruise control system (CCS) SET button
E595 Steering column combination switch
J527  Steering column electronics control unit

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
vl = purple
vi = purple
g = yellow
or = orange
rs = pink
Steering column combination switch, Airbag coil connector and return ring with slip ring, Horn plate, Multifunction steering wheel control unit, Steering column electronics control unit, Driver side airbag igniter

- E2 Turn signal switch
- E4 Headlight dipper and flasher switch
- E45 Cruise control system switch
- E51 Cruise control system master switch
- E527 Button to temporarily switch cruise control system (CCS) off
- E595 Steering column combination switch
- F138 Airbag coil connector and return ring with slip ring
- H Horn plate
- J234 Airbag control unit
- J453 Multifunction steering wheel control unit
- J527 Steering column electronics control unit
- N95 Driver side airbag igniter
- N250 Driver side airbag igniter 2
- T4ae 4-pin connector
- T100 100-pin connector
- * Only models with multifunction steering wheel
- *2 Flat conductor

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

**Diagram Notes:**
- N95, N250, J453, J527, E595, F138, H, J234, J527, E595, T4ae, T100, *2
Driver door control unit, Front passenger door control unit, Onboard supply control unit, Steering column electronics control unit, Driver side door warning lamp, Front passenger side door warning lamp, Driver side entry light in exterior mirror, Front passenger side entry light in exterior mirror

F189  Tiptronic switch
J386  Driver door control unit
J387  Front passenger door control unit
J519  Onboard supply control unit
J527  Steering column electronics control unit
J623  Engine control unit
L131  Driver side turn signal repeater bulb
L132  Front passenger side turn signal repeater bulb
T10o  10-pin connector
T16k  16-pin connector
T16l  16-pin connector
T16o  16-pin connector
T20g  20-pin connector
T20h  20-pin connector
T28  28-pin connector, in right A-pillar coupling station
T28c  28-pin connector, in left A-pillar coupling station
T32a  32-pin connector
T32b  32-pin connector
T52c  52-pin connector, brown
W30  Driver side door warning lamp
W36  Front passenger side door warning lamp
W52  Driver side entry light in exterior mirror
W53  Front passenger side entry light in exterior mirror

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

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

* see applicable current flow diagram for engine
*2 Only models with Tiptronic
*3 Only models with cruise control system (CCS)
Brake fluid level warning contact, Ambient temperature sensor, Coolant shortage indicator sender, Windscreen washer fluid level sender, Control unit in dash panel insert,
Dash panel insert

F34 Brake fluid level warning contact
G3 Coolant temperature gauge
G17 Ambient temperature sensor
G32 Coolant shortage indicator sender
G33 Windscreen washer fluid level sender
J285 Control unit in dash panel insert
K Dash panel insert
K18 Trailer operation warning lamp
K28 Coolant temperature and coolant shortage warning lamp
K37 Washer fluid level warning lamp
K214 Electric parking brake and handbrake fault warning lamp
T4vw 4-pin connector
T14c 14-pin connector, near front bumper
T32c 32-pin connector

295 Earth connection 10, in interior wiring harness
398 Earth connection 33, in main wiring harness
639 Earth point, left A-pillar

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gf = yellow
or = orange
rs = pink
Brake light switch, Left fog light bulb, Right fog light bulb, Left cornering light bulb, Right cornering light bulb, Left daytime running light bulb, Right daytime running light bulb

- F : Brake light switch
- J519 : Onboard supply control unit
- L22 : Left fog light bulb
- L23 : Right fog light bulb
- L148 : Left cornering light bulb
- L149 : Right cornering light bulb
- L174 : Left daytime running light bulb
- L175 : Right daytime running light bulb
- SB : Fuse holder B
- T2nl : 2-pin connector
- T2nr : 2-pin connector
- T2ta : 2-pin connector, black
- T2tb : 2-pin connector, black
- T2tl : 2-pin connector
- T2tr : 2-pin connector
- T4f : 4-pin connector
- T14c : 14-pin connector, near front bumper
- T52a : 52-pin connector, black
- T52c : 52-pin connector, brown

+371 Earth connection 6, in main wiring harness
+398 Earth connection 33, in main wiring harness
+456 Earth connection 1, front bumper wiring harness
+673 Earth point 3, on front of left longitudinal member
+B335 Connection 1 (54), in main wiring harness
+B362 Positive connection 13 (87a) in main wiring harness

* see applicable current flow diagram for engine
*2 Only models with daytime running lights
*3 Only models with static cornering light
*4 Wiring colour depends on equipment

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

https://www.automotive-manuals.net/
Left tail light, Right tail light, Rear left turn signal bulb, Rear right turn signal bulb, Left reversing light bulb, Right reversing light bulb

- J519: Onboard supply control unit
- MX3: Left tail light
- MX4: Right tail light
- M6: Rear left turn signal bulb
- M8: Rear right turn signal bulb
- M16: Left reversing light bulb
- M17: Right reversing light bulb
- M21: Left brake and tail light bulb
- M22: Right brake and tail light bulb
- T4y: 4-pin connector
- T4z: 4-pin connector
- T52a: 52-pin connector, black
- T52c: 52-pin connector, brown
- 50: Earth point, on left in luggage compartment
- 51: Earth point, on right in luggage compartment
- 369: Earth connection 4, in main wiring harness
- B520: Connection (RL), in main wiring harness
- W71: Connection (reversing light), in rear wiring harness

* Saloon
*2 Estate

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Rear left fog light bulb, Rear right fog light bulb, Left tail light 2, Right tail light 2, High-level brake light bulb

- J519 Onboard supply control unit
- L46 Rear left fog light bulb
- L47 Rear right fog light bulb
- MX5 Left tail light 2
- MX6 Right tail light 2
- M25 High-level brake light bulb
- M49 Left tail light bulb 2
- M50 Right tail light bulb 2
- T2f 2-pin connector, Coupling point for rear lid
- T2j 2-pin connector, Coupling point for rear lid
- T2kf 2-pin connector
- T52a 52-pin connector, black
- T52c 52-pin connector, brown

- 50 Earth point, on left in luggage compartment
- 218 Earth connection 1, in rear lid wiring harness
- 369 Earth connection 4, in main wiring harness
- * Saloon
- *2 Only left-hand drive models
- *3 Only right-hand drive models

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Rear left fog light bulb, Rear right fog light bulb, Left tail light 2, Right tail light 2, High-level brake light bulb

- J519 Onboard supply control unit
- L46 Rear left fog light bulb
- L47 Rear right fog light bulb
- MX5 Left tail light 2
- MX6 Right tail light 2
- M25 High-level brake light bulb
- M49 Left tail light bulb 2
- M50 Right tail light bulb 2
- T10h 10-pin connector, in rear right side panel
- T10q 10-pin connector, in rear left side panel
- T52a 52-pin connector, black
- T52c 52-pin connector, brown

51 Earth point, on right in luggage compartment
218 Earth connection 1, in rear lid wiring harness
219 Earth connection 2, in rear lid wiring harness
612 Earth point, centre on rear lid

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

- Rs = pink
- Or = orange
- Ge = yellow
- Vi = purple
- Li = purple
- Gn = green
- Bl = blue
- Gr = grey
- Br = brown
- Rt = red
- Ro = red
- Sw = black
- Ws = white
Reversing light switch, Heated rear window relay, Heated rear window, Left washer jet heater element, Right washer jet heater element

- F4 Reversing light switch
- J9 Heated rear window relay
- J519 Onboard supply control unit
- T1y Single connector
- T1z Single connector
- T10q 10-pin connector, in rear left side panel
- T52a 52-pin connector, black
- T52b 52-pin connector, white
- Z1 Heated rear window
- Z20 Left washer jet heater element
- Z21 Right washer jet heater element

- 218 Earth connection 1, in rear lid wiring harness
- 395 Earth connection 30, in main wiring harness
- 646 Earth point 2, on bulkhead
- 657 Earth point 1, on left near rear window
- C72 Positive connection in heated washer jet wiring harness

* Not for models with dual clutch gearbox
*2 Only models with heated washer jets
*3 Estate
*4 Saloon

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

Current Flow Diagram
No. 1 / 20

Passat

https://www.automotive-manuals.net/
Double washer pump relay 1, Double washer pump relay 2, Washer pump, Rear window wiper motor, Windscreen and rear window washer pump

- **J519** Onboard supply control unit
- **J729** Double washer pump relay 1
- **J730** Double washer pump relay 2
- **T4ax** 4-pin connector
- **T10q** 10-pin connector, in rear left side panel
- **T52a** 52-pin connector, black
- **T52b** 52-pin connector, white
- **V5** Washer pump
- **V12** Rear window wiper motor, black
- **V59** Windscreen and rear window washer pump

- **B162** Connection (75a), in interior wiring harness
- **B479** Connection 15, in main wiring harness
- **B568** Connection 35, in main wiring harness

* Estate
*2 Saloon

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ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gz = yellow
or = orange
rs = pink
Rain and light sensor, Headlight washer system relay, Wiper motor control unit, Windscreen wiper motor, Headlight washer system pump

G397  Rain and light sensor
J39   Headlight washer system relay
J400  Wiper motor control unit
J519  Onboard supply control unit
SB22  Fuse 22 on fuse holder B
SB31  Fuse 31 on fuse holder B
T3ah  3-pin connector
T4k   4-pin connector
T40   40-pin connector
T52b  52-pin connector, white
T52c  52-pin connector, brown
V     Windscreen wiper motor
V11   Headlight washer system pump

278   Earth connection 4, in interior wiring harness
647   Earth point 3, on bulkhead
685   Earth point 1 at front of right longitudinal member
689   Earth point, at front, central in roof
B154  Connection 1 (DCt), in interior wiring harness
B324  Positive connection 10 (30a) in main wiring harness
B528  Connection 1 (LIN bus) in main wiring harness
B616  Positive connection 12 (30a), in interior wiring harness

* Fuses in E-box, High
*2 Fuses in E-box, Low
*3 Only models with headlight washer system

rs = pink
ge = grey
v = purple
br = brown
t = red
ro = red
sw = black
br/ws = brown/white
ws = white
bl = blue
gn = green
or = orange
li = purple
ge = grey
vi = purple
rt/sw = red/white
0.35 vi
rt = red
br = brown
Front interior light button, Driver side reading light button, Front passenger side reading light button, Front interior light, Left centre reading light, Right centre reading light, Rear interior light

- **E326** Front interior light button
- **E454** Rear left reading light button
- **E455** Rear right reading light button
- **E457** Driver side reading light button
- **E458** Front passenger side reading light button
- **J519** Onboard supply control unit
- **SC26** Fuse 26 on fuse holder C
- **T50** 5-pin connector
- **T6b** 6-pin connector
- **T6t** 6-pin connector
- **T10e** 10-pin connector
- **T52b** 52-pin connector, white
- **W1** Front interior light
- **W11** Rear left reading light
- **W12** Rear right reading light
- **W39** Left centre reading light
- **W40** Right centre reading light
- **W43** Rear interior light
- **Y7** Automatic anti-dazzle interior mirror

- **278** Earth connection 4, in interior wiring harness
- **B154** Connection 1 (DCt), in interior wiring harness
- **B340** Connection 1 (58d), in main wiring harness
- **B559** Positive connection 1 (30g), in main wiring harness

- Flat conductor
- Only models with sliding/tilting sunroof

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

*Full text and diagram are not transcribed due to the complexity of the content and the nature of the task.*

https://www.automotive-manuals.net/
Glove compartment light switch, Driver vanity mirror contact switch, Glove compartment light, Rear left reading light, Rear right reading light, Front passenger side illuminated vanity mirror, Driver side illuminated vanity mirror

- E26 Glove compartment light switch
- F147 Driver vanity mirror contact switch
- F148 Front passenger vanity mirror contact switch
- T10e 10-pin connector
- W6 Glove compartment light
- W11 Rear left reading light
- W12 Rear right reading light
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror
- W31 Front left entry light
- W32 Front right entry light
- 278 Earth connection 4, in interior wiring harness
- 373 Earth connection 8, in main wiring harness
- 438 Earth connection 3, in roof wiring harness
- 638 Earth point, on right A-pillar
- B154 Connection 1 (DCt), in interior wiring harness
- B552 Positive connection 2, in roof wiring harness
- B559 Positive connection 1 (30g), in main wiring harness

* Only models with panoramic sliding sunroof
*2 Estate
*3 According to equipment
*4 Flat conductor

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

https://www.automotive-manuals.net/
Rear lid handle release button, Luggage compartment light switch, Convenience system central control unit, Tank filler flap locking motor, Luggage compartment light

- E234 Rear lid handle release button
- F5 Luggage compartment light switch
- F256 Rear lid lock unit
- J393 Convenience system central control unit
- T2e 2-pin connector, Coupling point for rear lid
- T2f 2-pin connector, Coupling point for rear lid
- T3as 3-pin connector
- T8r 8-pin connector
- T18a 18-pin connector
- V53 Rear lid central locking motor
- V155 Tank filler flap locking motor
- W3 Luggage compartment light
- 50 Earth point, on left in luggage compartment
- 218 Earth connection 1, in rear lid wiring harness
- 369 Earth connection 4, in main wiring harness
- B477 Connection 13, in main wiring harness
- B559 Positive connection 1 (30g), in main wiring harness

* Saloon

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

https://www.automotive-manuals.net/
Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Tank filler flap locking motor, Rear lid electric opener motor, Luggage compartment light

E234  Rear lid handle release button  
F5     Luggage compartment light switch  
F256   Rear lid lock unit  
J393   Convenience system central control unit  
T4az   4-pin connector  
T8r    8-pin connector  
T10h   10-pin connector, in rear right side panel  
T10q   10-pin connector, in rear left side panel  
T18a   18-pin connector  
V155   Tank filler flap locking motor  
V254   Rear lid electric opener motor  
W3     Luggage compartment light

- Earth point, on right in luggage compartment
- Earth connection 1, in rear lid wiring harness
- Earth connection 2, in rear lid wiring harness
- Earth point, centre on rear lid

Passat  
Current Flow Diagram  
No. 1 / 26

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bl = blue  
gr = grey  
li = purple  
v1 = purple  
ge = yellow  
or = orange  
rs = pink

https://www.automotive-manuals.net/
Convenience system central control unit, Left footwell light, Right footwell light

- J393: Convenience system central control unit
- J519: Onboard supply control unit
- T6an: 6-pin connector
- T18a: 18-pin connector
- T52b: 52-pin connector, white
- W9: Left footwell light
- W10: Right footwell light
- B820: Connection (electronic steering column lock) in main wiring harness

* Only models with footwell illumination

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

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https://www.automotive-manuals.net/
Convenience system
From November 2010
Terminal 15 voltage supply relay, Fuse holder C
- J329  Terminal 15 voltage supply relay
- J519  Onboard supply control unit
- SC1  Fuse 1 on fuse holder C
- SF1  Fuse 1 in fuse holder F
- SA4  Fuse 4 in fuse holder A
- SA5  Fuse 5 in fuse holder A
- SC12  Fuse 12 on fuse holder C
- SC14  Fuse 14 on fuse holder C
- SC28  Fuse 28 on fuse holder C
- SB30  Fuse 30 on fuse holder B
- SB49  Fuse 49 on fuse holder B
- SC  Fuse holder C
- SC44  Fuse 44 on fuse holder C
- T40  40-pin connector
- T52b  52-pin connector

- Terminal 15 voltage supply relay
- Fuse holder C
- Onboard supply control unit
- SC1  Fuse 1 on fuse holder C
- SF1  Fuse 1 in fuse holder F
- SA4  Fuse 4 in fuse holder A
- SA5  Fuse 5 in fuse holder A
- SC12  Fuse 12 on fuse holder C
- SC14  Fuse 14 on fuse holder C
- SC28  Fuse 28 on fuse holder C
- SB30  Fuse 30 on fuse holder B
- SB49  Fuse 49 on fuse holder B
- SC  Fuse holder C
- SC44  Fuse 44 on fuse holder C
- T40  40-pin connector
- T52b  52-pin connector

- Earth connection 2, in interior wiring harness
- Earth point, left A-pillar
- Positive connection 15 (15a) in main wiring harness
- Positive connection 15 (30a) in main wiring harness
- Positive connection 16 (30a) in main wiring harness
- Positive connection (30) 2, in central locking wiring harness

- * Fuses in E-box, Low
- *2 Fuses in E-box, High
- *3 Only models with battery in luggage compartment
- *4 Only left-hand drive models
- *5 Only right-hand drive models

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

https://www.automotive-manuals.net/
Front driver side window regulator button, Front passenger side window regulator button, in driver door, Driver door control unit, Driver side window regulator motor

- E318 Childproof lock button
- E710 Front driver side window regulator button
- E712 Rear driver side window regulator button, in driver door
- E714 Rear passenger side window regulator button, in driver door
- E715 Front passenger side window regulator button, in driver door
- J386 Driver door control unit
- K236 Warning light for activated childproof lock
- L76 Button illumination bulb

- T10t 10-pin connector
- T20g 20-pin connector
- T28c 28-pin connector, in left A-pillar coupling station
- T32a 32-pin connector
- V147 Driver side window regulator motor

- 406 Earth connection 5, in drive side door wiring harness
- R10 Positive connection 1 (30), in driver door wiring harness
- R75 Connection 1 (58d), in door control unit wiring harness

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ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Key operated switch to block release of rear lid remote,
Driver side interior locking button for central locking system,
Driver door control unit, Central locking SAFELOCK
function warning lamp, Driver door ambient lighting bulb,
Light conductor for front left sill panel moulding ambient lighting

E232  Key operated switch to block release of rear lid remote
E308  Driver side interior locking button for central locking system
J386  Driver door control unit
K133  Central locking SAFELOCK function warning lamp
K174  Driver side interior locking warning lamp
L76   Button illumination bulb
L164  Driver door ambient lighting bulb
T4ao  4-pin connector
T32a  32-pin connector
W67   Light conductor for front left sill panel moulding ambient lighting

406  Earth connection 5, in drive side door wiring harness
R75  Connection 1 (58d), in door control unit wiring harness

* Only for American markets
*2 Only models with footwell illumination

Passat

Current Flow Diagram

No. 2 / 4
Mirror adjustment switch, Exterior mirror heater button, Rear lid remote release button, Driver side door warning lamp

E43 Mirror adjustment switch
E48 Mirror adjustment changeover switch
E231 Exterior mirror heater button
E233 Rear lid remote release button
E263 Fold-in mirror switch
J386 Driver door control unit
L76 Button illumination bulb
L78 Mirror adjustment switch illumination bulb
T4ap 4-pin connector
T6aq 6-pin connector
T32a 32-pin connector
W30 Driver side door warning lamp

406 Earth connection 5, in drive side door wiring harness
R76 Connection 2 (58d), in door control unit wiring harness

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W30</td>
<td>Driver side door warning lamp</td>
</tr>
<tr>
<td>E233</td>
<td></td>
</tr>
</tbody>
</table>
Passat

Current Flow Diagram

Potentiometer for horizontal adjustment of driver side mirror,
Potentiometer for vertical adjustment of driver side mirror,
Driver door control unit, Driver side mirror adjustment motor
2, Driver side fold-in mirror motor, Driver side mirror adjustment motor, Heated exterior mirror on driver side

G514 Potentiometer for horizontal adjustment of driver side mirror
G515 Potentiometer for vertical adjustment of driver side mirror
J386 Driver door control unit
L131 Driver side turn signal repeater bulb
T16k 16-pin connector
V17 Driver side mirror adjustment motor 2
V121 Driver side fold-in mirror motor
V149 Driver side mirror adjustment motor
W52 Driver side entry light in exterior mirror
Z4 Heated exterior mirror on driver side

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

https://www.automotive-manuals.net/
Driver door control unit, Driver door lock unit

- J386  Driver door control unit
- T10u  10-pin connector
- T16k  16-pin connector
- T20g  20-pin connector
- T28c  28-pin connector, in left A-pillar coupling station
- VX21  Driver door lock unit
- Y20   Driver side automatic anti-dazzle exterior mirror

**According to equipment**

- Earth connection 12, in main wiring harness
- Earth point 12 on front of left side member

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

Passat  Current Flow Diagram  No. 2 / 7

[Diagram of current flow with connections and components labeled]

[Reference link: https://www.automotive-manuals.net/]
Front passenger side window regulator button, Front passenger door control unit, Front passenger door ambient lighting bulb, Front passenger door lock unit, Front passenger side window regulator motor, Front passenger side door warning lamp, Light conductor for front right sill panel moulding ambient lighting

- E716 Front passenger side window regulator button
- J387 Front passenger door control unit
- L76 Button illumination bulb
- L165 Front passenger door ambient lighting bulb
- T4av 4-pin connector
- T8w 8-pin connector
- T20h 20-pin connector
- T28 28-pin connector, in right A-pillar coupling station
- T32b 32-pin connector
- VX22 Front passenger door lock unit
- V148 Front passenger side window regulator motor
- W36 Front passenger side door warning lamp
- W68 Light conductor for front right sill panel moulding ambient lighting

- 206 Earth connection, in front passenger door wiring harness
- 373 Earth connection 8, in main wiring harness
- 638 Earth point, on right A-pillar
- R80 Connection 3 (58d), in door control unit wiring harness

* Only models with footwell illumination
*2 According to equipment

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Potentiometer for horizontal adjustment of front passenger side mirror, Potentiometer for vertical adjustment of front passenger side mirror, Front passenger door control unit, Front passenger side mirror adjustment motor 2, Front passenger side fold-in mirror motor, Front passenger side mirror adjustment motor, Heated exterior mirror on front passenger side

G516 Potentiometer for horizontal adjustment of front passenger side mirror
G517 Potentiometer for vertical adjustment of front passenger side mirror
J387 Front passenger door control unit
L132 Front passenger side turn signal repeater bulb
T16i 16-pin connector
T20h 20-pin connector
T28 28-pin connector, in right A-pillar coupling station
V25 Front passenger side mirror adjustment motor 2
V122 Front passenger side fold-in mirror motor
V150 Front passenger side mirror adjustment motor
W53 Front passenger side entry light in exterior mirror
Z5 Heated exterior mirror on front passenger side

R16 Positive connection 1 (30), in front passenger door wiring harness

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

https://www.automotive-manuals.net/
Rear driver side window regulator button, Front passenger door control unit, Rear driver side door control unit, Light 1 for rear left door background lighting, Light 2 for rear left door background lighting, Rear driver side window regulator motor

E711 Rear driver side window regulator button
J387 Front passenger door control unit
J926 Rear driver side door control unit
L76 Button illumination bulb
L201 Light 1 for rear left door background lighting
L205 Light 2 for rear left door background lighting
T4aj 4-pin connector
T16i 16-pin connector
T20i 20-pin connector
T28a 28-pin connector, on left B-pillar
V471 Rear driver side window regulator motor
Y21 Front passenger side automatic anti-dazzle exterior mirror

207 Earth connection, in rear left door wiring harness
B322 Positive connection 8 (30a) in main wiring harness
R19 Positive connection 1 (30), in rear left door wiring harness
R31 Connection 1, in rear left door wiring harness

* Only models with footwell illumination
*2 Only left-hand drive models
*3 Only right-hand drive models

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

https://www.automotive-manuals.net/
Rear driver side door control unit, Rear left door lock unit, Rear left door warning lamp

- **J926**: Rear driver side door control unit
- **T8u**: 8-pin connector
- **T20i**: 20-pin connector
- **T28a**: 28-pin connector, on left B-pillar
- **VX23**: Rear left door lock unit
- **W37**: Rear left door warning lamp

- **77**: Earth point, lower part of left B-pillar
- **78**: Earth point, lower part of right B-pillar
- **378**: Earth connection 13, in main wiring harness

* Only right-hand drive models
Rear passenger side window regulator button, Rear passenger side door control unit, Light 1 for rear right door background lighting, Light 2 for rear left door background lighting, Rear passenger side window regulator motor

- E713  Rear passenger side window regulator button
- J927  Rear passenger side door control unit
- L76   Button illumination bulb
- L202  Light 1 for rear right door background lighting
- L205  Light 2 for rear left door background lighting
- T4an  4-pin connector
- T20k  20-pin connector
- T28b  28-pin connector, on right B-pillar
- V472  Rear passenger side window regulator motor

- 208   Earth connection, in rear right door wiring harness
- R23   Positive connection 1 (30), in rear right door wiring harness
- R32   Connection 2, in rear right door wiring harness

* Only models with footwell illumination

---

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Rear passenger side door control unit, Rear right door lock unit, Rear right door warning lamp

- **J927** Rear passenger side door control unit
- **T8v** 8-pin connector
- **T20k** 20-pin connector
- **T28b** 28-pin connector, on right B-pillar
- **VX24** Rear right door lock unit
- **W38** Rear right door warning lamp

- **77** Earth point, lower part of left B-pillar
- **78** Earth point, lower part of right B-pillar
- **374** Earth connection 9, in main wiring harness

* Only models with footwell illumination
*2 According to equipment
*3 Only right-hand drive models

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

**Notes:**
- Only models with footwell illumination
- According to equipment
- Only right-hand drive models

Current Flow Diagram

No. 2 / 13

https://www.automotive-manuals.net/
Control unit in dash panel insert, Data bus diagnostic interface

- J119 Multifunction indicator
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- T16d 16-pin connector, on diagnostic connection
- T20e 20-pin connector
- T32c 32-pin connector

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

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

* Diagnostic connection

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Interior monitoring deactivation switch, Bonnet contact switch, Convenience system central control unit, Onboard supply control unit, Central locking and anti-theft alarm system aerial

- E267: Interior monitoring deactivation switch
- F266: Bonnet contact switch
- J519: Convenience system central control unit
- J519: Onboard supply control unit
- K162: Interior monitoring off warning lamp
- L76: Button illumination bulb
- R47: Central locking and anti-theft alarm system aerial
- T4nj: 4-pin connector
- T4vw: 4-pin connector, behind right headlight
- T6ao: 6-pin connector
- T18a: 18-pin connector
- T52a: 52-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector

- 279: Earth connection 5, in interior wiring harness
- 685: Earth point 1 at front of right longitudinal member
- A144: Connection (interior monitoring) in dash panel wiring harness
- B397: Connection 1 (convenience CAN bus, high), in main wiring harness
- B406: Connection 1 (convenience CAN bus, low), in main wiring harness
- B559: Positive connection 1 (30g), in main wiring harness

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

Passat

Current Flow Diagram

No. 2 / 15

https://www.automotive-manuals.net/
Convenience system central control unit, Tank filler flap locking motor

- J245  Sliding sunroof adjustment control unit
- J393  Convenience system central control unit
- J764  Control unit for electronic steering column lock
- T6ah  6-pin connector
- T6an  6-pin connector
- T6r   8-pin connector
- T10k  10-pin connector
- T18a  18-pin connector
- V155  Tank filler flap locking motor

(B730) Connection, in wiring harness for steering column adjustment
Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Rear lid central locking motor, Luggage compartment light

- **EX37** Rear lid handle
- **E234** Rear lid handle release button
- **F5** Luggage compartment light switch
- **F256** Rear lid lock unit
- **J393** Convenience system central control unit
- **T2e** 2-pin connector, Coupling point for rear lid
- **T2f** 2-pin connector, Coupling point for rear lid
- **T2fd** 2-pin connector, black
- **T3as** 3-pin connector
- **T4aw** 4-pin connector, black
- **T8r** 8-pin connector
- **T18a** 18-pin connector
- **V53** Rear lid central locking motor
- **V432** Emblem motor
- **W3** Luggage compartment light

- **50** Earth point, on left in luggage compartment
- **218** Earth connection 1, in rear lid wiring harness
- **369** Earth connection 4, in main wiring harness
- **(B477)** Connection 13, in main wiring harness

- * Saloon
- *2 Only models with no reversing camera system
- *3 Only models with reversing camera system
- *4 see applicable current flow diagram for reversing camera (Rear Assist)

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

https://www.automotive-manuals.net/
Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Rear lid electric opener motor, Luggage compartment light

- **E234** Rear lid handle release button
- **F5** Luggage compartment light switch
- **F256** Rear lid lock unit
- **J393** Convenience system central control unit
- **T4az** 4-pin connector
- **T8r** 8-pin connector
- **T10** 10-pin connector, on left in luggage compartment
- **T10h** 10-pin connector, Coupling point for rear lid, on right in luggage compartment
- **T18a** 18-pin connector
- **V254** Rear lid electric opener motor
- **W3** Luggage compartment light

**Legend:**
- **51** Earth point, on right in luggage compartment
- **218** Earth connection 1, in rear lid wiring harness
- **219** Earth connection 2, in rear lid wiring harness
- **612** Earth point, centre on rear lid

*Estate*

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

**Notes:**
- **360-002180616**
- **https://www.automotive-manuals.net/*
Interior monitoring sensor, Interior monitor send and receive module 1, Vehicle inclination sender, Alarm horn, Convenience system central control unit

- G273 Interior monitoring sensor
- G303 Interior monitor send and receive module 1
- G384 Vehicle inclination sender
- H12 Alarm horn
- J393 Convenience system central control unit
- T3r 3-pin connector
- T4af 4-pin connector
- T6ao 6-pin connector
- T10e 10-pin connector, in roof
- 395 Earth connection 30, in main wiring harness
- 438 Earth connection 3, in roof wiring harness
- 646 Earth point 2, on bulkhead
- B250 Positive connection, in roof wiring harness
- B549 Connection 2 (LIN bus) in main wiring harness
- B577 LIN bus connection, in roof wiring harness
- * Flat conductor

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Onboard supply control unit, Front interior light, Automatic anti-dazzle interior mirror

- E326 Front interior light button
- E457 Driver side reading light button
- E458 Front passenger side reading light button
- J519 Onboard supply control unit
- T6b 6-pin connector
- T6i 6-pin connector
- T10ai 10-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior light
- W39 Left centre reading light
- W40 Right centre reading light
- W43 Rear interior light
- Y7 Automatic anti-dazzle interior mirror

- 278 Earth connection 4, in interior wiring harness
- 689 Earth point, at front, central in roof
- B154 Connection 1 (DCt), in interior wiring harness
- B163 Positive connection 1 (15), in interior wiring harness
- B340 Connection 1 (58d), in main wiring harness
- B520 Connection (RL), in main wiring harness

* Only models with no main beam assist function

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

https://www.automotive-manuals.net/
Anti-dazzle interior mirror button, Main beam assist control unit, Automatic anti-dazzle interior mirror

- **E386** Anti-dazzle interior mirror button
- **J844** Main beam assist control unit
- **SC1** Fuse 1 on fuse holder C
- **T8aw** 8-pin connector
- **W1** Front interior light
- **Y7** Automatic anti-dazzle interior mirror

- 278 Earth connection 4, in interior wiring harness
- **B163** Positive connection 1 (15), 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 main beam assist

---

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
li = purple  
vii = purple  
ge = yellow  
or = orange  
rs = pink
Left footwell light, Right footwell light

J519  Onboard supply control unit
T52b  52-pin connector
W9    Left footwell light
W10   Right footwell light

42    Earth point, next to steering column
238   Earth connection 1, in interior wiring harness
277   Earth connection 3, in interior wiring harness
639   Earth point, left A-pillar

* Only models with footwell illumination

---

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gi = grey
gr = grey
li = purple
vi = purple
g = yellow
or = orange
rs = pink
Anti-lock brake system (ABS) with electronic differential lock (EDL) and traction control system (TCS) and electronic stabilisation program (ESP)
From November 2010
**Battery, ABS control unit**

- **A** Battery
- **J104** ABS control unit
- **SB2** Fuse 2 on fuse holder B
- **SC2** Fuse 2 on fuse holder C
- **SA7** Fuse 7 in fuse holder A
- **SA8** Fuse 8 in fuse holder A
- **SC13** Fuse 13 on fuse holder C
- **T38** 38-pin connector
- **T40** 40-pin connector
- **V39** ABS return flow pump

- **12** Earth point, on left in engine compartment
- **507** Threaded connection (30), on battery fuse holder
- **B287** Positive connection 11 (15a) in main wiring harness
- **B331** Positive connection 17 (30a) in main wiring harness
  - *2 Fuses in E-box, Low
  - *2 Fuses in E-box, High
  - *3 Cross section depends on equipment

**Current Flow Diagram**

- **Passat**
- **No. 3 / 2**
- **https://www.automotive-manuals.net/**
Vacuum sender, ABS control unit, Steering column electronics control unit, Control unit for electromechanical parking brake

- G608  Vacuum sender
- J104  ABS control unit
- J527  Steering column electronics control unit
- J540  Control unit for electromechanical parking brake
- T4c   4-pin connector
- T16o  16-pin connector
- T30   30-pin connector
- T38   38-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

* According to equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vl = purple
- ge = yellow
- or = orange
- rs = pink
Brake light switch, Onboard supply control unit

- F  Brake light switch
- J519  Onboard supply control unit
- SB  Fuse holder B
- T4f  4-pin connector
- T52c  52-pin connector

- 398  Earth connection 33, in main wiring harness
- 639  Earth point, left A-pillar
- B335  Connection 1 (54), in main wiring harness
- B362  Positive connection 13 (87a) in main wiring harness

*  see applicable current flow diagram for engine
*2  Wiring colour depends on equipment

ws  =  white
sw  =  black
ro  =  red
rt  =  red
br  =  brown
gn  =  green
bl  =  blue
gr  =  grey
li  =  purple
vi  =  purple
gt  =  yellow
or  =  orange
rs  =  pink
Air conditioning system
From November 2010
High-pressure sender, Fresh air blower relay, Fresh air blower series resistor with overheating fuse, Fresh air blower

- E9  Fresh air blower switch
- E30  Air conditioning system switch
- G65  High-pressure sender
- J13  Fresh air blower relay
- J301 Air conditioning system control unit
- N24  Fresh air blower series resistor with overheating fuse
- SC1  Fuse 1 on fuse holder C
- SC15  Fuse 15 on fuse holder C
- SC38  Fuse 38 on fuse holder C
- T3ae  3-pin connector
- T4bp  4-pin connector
- T5r  5-pin connector
- T10f  10-pin connector, on heater and air conditioner unit
- T20b  20-pin connector
- V2  Fresh air blower, black

- 238  Earth connection 1, in interior wiring harness
- 279  Earth connection 5, in interior wiring harness
- 638  Earth point, on right A-pillar
- 685  Earth point 1 at front of right longitudinal member
- B163  Positive connection 1 (15), in interior wiring harness
- B594  Connection 1, in Climatic wiring harness
- B596  Connection 3, in Climatic wiring harness
- B616  Positive connection 12 (30a), in interior wiring harness

* Only models with auxiliary heating
*2 Only models with no auxiliary heater

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

https://www.automotive-manuals.net/
Driver seat temperature sensor, Auxiliary heater control unit, Air conditioner compressor regulating valve

- E94 Heated driver seat regulator
- E95 Heated front passenger seat regulator
- E159 Fresh air and air recirculation flap switch
- G59 Driver seat temperature sensor
- J301 Air conditioning system control unit
- J364 Auxiliary heater control unit
- J485 Auxiliary heater operation relay
- J774 Heated front seats control unit
- N280 Air conditioner compressor regulating valve, on air conditioner compressor

- SB35 Fuse 35 on fuse holder B
- SC45 Fuse 45 on fuse holder C
- T4a 4-pin connector, near starter
- T4bv 4-pin connector
- T8ac 8-pin connector
- T10c 10-pin connector, under driver seat
- T10f 10-pin connector, on heater and air conditioner unit
- T20b 20-pin connector

- 238 Earth connection 1, in interior wiring harness
- 371 Earth connection 6, in main wiring harness
- 397 Earth connection 32, in main wiring harness
- 673 Earth point 3, on front of left longitudinal member
- 687 Earth point 1, on centre tunnel
- O16 Connection 5, in seat heating wiring harness

* Only models with auxiliary coolant heater
*2 Only models with second battery
*3 Only models with no second battery
*4 see applicable current flow diagram for auxiliary coolant heater
*5 Only models with seat heating

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

Passat
Current Flow Diagram
No. 4 / 3

https://www.automotive-manuals.net/
Heated rear window button, Front passenger seat temperature sensor, Potentiometer for temperature selection rotary knob, Air recirculation flap control motor, Air distribution flap control motor

- E230  Heated rear window button
- G60  Front passenger seat temperature sensor
- G267  Potentiometer for temperature selection rotary knob
- G645  Potentiometer for air distribution flap control motor
- J301  Air conditioning system control unit
- K10  Heated rear window warning lamp
- K114  Fresh air and air recirculation warning lamp
- T4bu  4-pin connector
- T6bg  6-pin connector
- T6da  6-pin connector
- T10c  10-pin connector, under driver seat
- T10d  10-pin connector
- T16j  16-pin connector
- T20b  20-pin connector
- V113  Air recirculation flap control motor
- V428  Air distribution flap control motor, blue

(B483  Connection 19, in main wiring harness)
Passat

Current Flow Diagram

Potentiometer for temperature flap control motor, Evaporator temperature sensor, Temperature flap control motor

- G92: Potentiometer for temperature flap control motor
- G308: Evaporator temperature sensor
- J301: Air conditioning system control unit
- J533: Data bus diagnostic interface
- T6bf: 6-pin connector
- T16j: 16-pin connector
- T20b: 20-pin connector
- T20e: 20-pin connector
- V68: Temperature flap control motor

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

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

Connection 2, in Climatic wiring harness
- B595

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

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

https://www.automotive-manuals.net/
Dash panel left vent illumination bulb, Dash panel central vent illumination, Dash panel right vent illumination bulb

- **J519**: Onboard supply control unit
- **L67**: Dash panel left vent illumination bulb
- **L68**: Dash panel central vent illumination
- **L69**: Dash panel right vent illumination bulb
- **T12ac**: 12-pin connector
- **T52b**: 52-pin connector
- **T52c**: 52-pin connector

- **42**: Earth point, next to steering column
- **81**: Earth connection 1, in dash panel wiring harness
- **277**: Earth connection 3, in interior wiring harness
- **639**: Earth point, left A-pillar

- **A19**: Connection (58d), in dash panel wiring harness
- **B340**: Connection 1 (58d), 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

* According to equipment

---

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
dh = yellow
or = orange
rs = pink
Climatronic
From November 2010
High-pressure sender, Left vent temperature sender, Right vent temperature sender, Climatronic control unit

- G65 High-pressure sender
- G150 Left vent temperature sender
- G151 Right vent temperature sender
- G238 Air quality sensor
- J255 Climatronic control unit
- SC1 Fuse 1 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- T3ae 3-pin connector
- T3dh 3-pin connector
- T20c 20-pin connector
- 279 Earth connection 5, in interior wiring harness
- 397 Earth connection 32, in main wiring harness
- 685 Earth point 1 at front of right longitudinal member
- 687 Earth point 1, on centre tunnel
- B163 Positive connection 1 (15), in interior wiring harness
- B472 Connection 8, in main wiring harness
- B616 Positive connection 12 (30a), in interior wiring harness

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

https://www.automotive-manuals.net/
Sunlight penetration photosensor, Potentiometer for indirect ventilation flap control motor, Climatronic control unit, Indirect ventilation flap control motor

G107  Sunlight penetration photosensor
G330  Potentiometer for indirect ventilation flap control motor
J255  Climatronic control unit
T4ac  4-pin connector
T6am  6-pin connector
T20c  20-pin connector
V213  Indirect ventilation flap control motor

(B466)  Connection 2, in main wiring harness
(B472)  Connection 8, in main wiring harness
*  According to equipment
*2  Only for countries with hot climate

Passat

Current Flow Diagram

https://www.automotive-manuals.net/
Driver seat temperature sensor, Front passenger seat temperature sensor, Climatronic control unit, Air conditioner compressor regulating valve

G59  Driver seat temperature sensor
G60  Front passenger seat temperature sensor
J255  Climatronic control unit
J774  Heated front seats control unit
N280  Air conditioner compressor regulating valve
T4a  4-pin connector
T4bu  4-pin connector
T4bv  4-pin connector
T8ac  8-pin connector
T10c  10-pin connector, under driver seat
T20c  20-pin connector
371  Earth connection 6, in main wiring harness
673  Earth point 3, on front of left longitudinal member
B483  Connection 19, in main wiring harness
O16  Connection 5, in seat heating wiring harness

* see applicable current flow diagram for seat heating

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

https://www.automotive-manuals.net/
Left footwell vent temperature sender, Right footwell vent temperature sender, Fresh air blower control unit, Climatronic control unit

G261  Left footwell vent temperature sender
G262  Right footwell vent temperature sender
J126  Fresh air blower control unit
J255  Climatronic control unit
SC38  Fuse 38 on fuse holder C
T2gc  2-pin connector
T6be  6-pin connector
T10f  10-pin connector, near heater blower
T16h  16-pin connector
T16i  16-pin connector
V2   Fresh air blower

638   Earth point, on right A-pillar
(B593 Connection 2, in Climatronic wiring harness

V2   Fresh air blower

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

https://www.automotive-manuals.net/
Current Flow Diagram

Evaporator temperature sensor, Climatronic control unit

- G220: Potentiometer for left temperature flap control motor
- G308: Evaporator temperature sensor
- G644: Potentiometer for fresh air/air recirculation, air flow flap control motor
- J255: Climatronic control unit
- T6bc: 6-pin connector
- T6bd: 6-pin connector
- T16h: 16-pin connector
- T16i: 16-pin connector
- V158: Left temperature flap control motor
- V425: Fresh air/air recirculation, air flow flap control motor

Connection 1, in Climatronic wiring harness (B592)
Connection 2, in Climatronic wiring harness (B593)

Current Flow Diagram
No. 5 / 6

Volkswagen Passat

https://www.automotive-manuals.net/
Potentiometer for defroster flap control motor,
Potentiometer for front air distribution flap control motor,
Climatronic control unit, Defroster flap control motor, Front air distribution flap control motor

G135  Potentiometer for defroster flap control motor
G642  Potentiometer for front air distribution flap control motor
J255  Climatronic control unit
T6ay  6-pin connector
T6bb  6-pin connector
T16h  16-pin connector
T16i  16-pin connector
V107  Defroster flap control motor
V426  Front air distribution flap control motor
(B592) Connection 1, in Climatronic wiring harness
(B593) Connection 2, in Climatronic wiring harness
Potentiometer for right temperature flap control motor, Climatronic control unit, Dash panel left vent illumination bulb, Dash panel central vent illumination, Dash panel right vent illumination bulb, Right temperature flap control motor

G221  Potentiometer for right temperature flap control motor
J255  Climatronic control unit
J519  Onboard supply control unit
J533  Data bus diagnostic interface
L67   Dash panel left vent illumination bulb
L68   Dash panel central vent illumination
L69   Dash panel right vent illumination bulb
T6az  6-pin connector
T12ac 12-pin connector
T16h  16-pin connector
T16i  16-pin connector
T20c  20-pin connector
T20e  20-pin connector
T52b  52-pin connector
T52c  52-pin connector
V159  Right temperature flap control motor

81    Earth connection 1, in dash panel wiring harness
A19   Connection (58d), in dash panel wiring harness
B340  Connection 1 (58d), 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
B592  Connection 1, in Climatronic wiring harness
B593  Connection 2, in Climatronic wiring harness

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

https://www.automotive-manuals.net/
Electromechanical parking brake
From November 2010
Control unit for electromechanical parking brake, Fuse 2 on fuse holder C, Fuse 22 on fuse holder C, Fuse 24 on fuse holder C

- J540: Control unit for electromechanical parking brake
- SC2: Fuse 2 on fuse holder C
- SC22: Fuse 22 on fuse holder C
- SC24: Fuse 24 on fuse holder C
- T30: 30-pin connector

- 688: Earth point 2, on centre tunnel
- B287: Positive connection 11 (15a) in main wiring harness

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

https://www.automotive-manuals.net/
Switch module 1 in centre console, Electromechanical parking brake button, Auto-hold button, Control unit for electromechanical parking brake, Electromechanical parking brake warning lamp, Auto-hold warning lamp

EX23 Switch module 1 in centre console
E538 Electromechanical parking brake button
E540 Auto-hold button
J519 Onboard supply control unit
J540 Control unit for electromechanical parking brake
K213 Electromechanical parking brake warning lamp
K237 Auto-hold warning lamp
L76 Button illumination bulb
SC13 Fuse 13 on fuse holder C
T26h 26-pin connector
T30 30-pin connector
T52b 52-pin connector

397 Earth connection 32, in main wiring harness
687 Earth point 1, on centre tunnel
B331 Positive connection 17 (30a) in main wiring harness
B340 Connection 1 (58d), in main wiring harness
* Only models with manual gearbox and Auto Hold function

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

https://www.automotive-manuals.net/
Clutch position sender, ABS control unit, Control unit for electromechanical parking brake, Left parking brake motor, Right parking brake motor

- G476 Clutch position sender
- J104 ABS control unit
- J540 Control unit for electromechanical parking brake
- T5j 5-pin connector
- T30 30-pin connector
- T38 38-pin connector
- V282 Left parking brake motor
- V283 Right parking brake motor

- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vl = purple
- ge = yellow
- or = orange
- rs = pink
Control unit in dash panel insert, Data bus diagnostic interface, Brake system warning lamp, Electric parking brake and handbrake fault warning lamp

- J119  Multifunction indicator
- J285  Control unit in dash panel insert
- J533  Data bus diagnostic interface
- K118  Brake system warning lamp
- K214  Electric parking brake and handbrake fault warning lamp
- T20e  20-pin connector
- T32c  32-pin connector
- B384  Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391  Connection 2 (powertrain CAN bus, low), in main wiring harness

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

https://www.automotive-manuals.net/
Airbag systems with no rear side airbags
From November 2010
Key operated switch to deactivate front passenger side airbag, Airbag control unit, Front passenger side airbag deactivated warning lamp

- E224 Key operated switch to deactivate front passenger side airbag
- J234 Airbag control unit
- K145 Front passenger side airbag deactivated warning lamp
- SC9 Fuse 9 on fuse holder C
- T6g 6-pin connector
- T100 100-pin connector

- 285 Earth connection 7, in interior wiring harness
- B284 Positive connection 8 (15a) in main wiring harness

* Only models with key operated switch to deactivate front passenger airbag

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

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https://www.automotive-manuals.net/
Airbag coil connector and return ring with slip ring, Airbag control unit, Steering column electronics control unit, Driver side airbag igniter, Front passenger side airbag igniter, Side airbag igniter on driver side, Side airbag igniter on front passenger side, 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
- N199  Side airbag igniter on driver side
- N200  Side airbag igniter on front passenger side
- N250  Driver side airbag igniter 2
- T2kw  2-pin connector, in driver seat
- T2kv  2-pin connector
- T3b   3-pin connector, under front passenger seat
- T3c   3-pin connector, under driver seat
- T3k   3-pin connector, behind glove compartment
- T4ae  4-pin connector
- T100  100-pin connector

285  Earth connection 7, in interior wiring harness

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

https://www.automotive-manuals.net/
Airbag control unit, Driver seat belt tensioner igniter 1, Front passenger seat belt tensioner igniter 1, Driver side curtain airbag igniter, Front passenger side curtain airbag igniter

- J234 Airbag control unit
- N153 Driver seat belt tensioner igniter 1
- N154 Front passenger seat belt tensioner igniter 1
- N251 Driver side curtain airbag igniter
- N252 Front passenger side curtain airbag igniter
- T3ab 3-pin connector, yellow
- T3ad 3-pin connector, yellow
- T100 100-pin connector
- 285 Earth connection 7, in interior wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bi = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink
Side airbag crash sensor on driver side, Side airbag crash sensor on front passenger side, Rear side airbag crash sensor on driver side, Rear side airbag crash sensor on front passenger side, Airbag control unit

- G179  Side airbag crash sensor on driver side
- G180  Side airbag crash sensor on front passenger side
- G256  Rear side airbag crash sensor on driver side
- G257  Rear side airbag crash sensor on front passenger side
- J234  Airbag control unit
- T28   28-pin connector, in right A-pillar coupling station
- T28c  28-pin connector, in left A-pillar coupling station
- T100  100-pin connector

- 285  Earth connection 7, in interior wiring harness

- ws  = white
- sw  = black
- ro  = red
- br  = brown
- gn  = green
- bl  = blue
- gr  = grey
- li  = purple
- ge  = yellow
- or  = orange
- rs  = pink
Front passenger side belt switch, Seat occupied sensor, front passenger side, Airbag control unit, Control unit in dash panel insert, Data bus diagnostic interface, Seat belt warning system warning lamp, Airbag warning lamp

E24 Driver side belt switch
E25 Front passenger side belt switch
G128 Seat occupied sensor, front passenger side
J234 Airbag control unit
J286 Control unit in dash panel insert
J533 Data bus diagnostic interface
K19 Seat belt warning system warning lamp
K75 Airbag warning lamp
T2d 2-pin connector, on driver seat
T2lm 2-pin connector, on front passenger seat
T16q 16-pin connector, on diagnostic connection
T20e 20-pin connector
T32d 32-pin connector
T100 100-pin connector

285 Earth connection 7, in interior wiring harness

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

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

* Diagnostic connection
*2 According to equipment

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gf = grey
li = purple
ge = yellow
or = orange
rs = pink
Airbag systems with rear side airbags
From November 2010
Key operated switch to deactivate front passenger side airbag, Airbag control unit, Front passenger side airbag deactivated warning lamp

E224 Key operated switch to deactivate front passenger side airbag
J234 Airbag control unit
K145 Front passenger side airbag deactivated warning lamp
SC9 Fuse 9 on fuse holder C
T6f 6-pin connector
T100a 100-pin connector

294 Earth connection 9, in interior wiring harness

B284 Positive connection 8 (15a) in main wiring harness
- Only models with key operated switch to deactivate front passenger airbag

12.2010

Passat Current Flow Diagram No. 8/2

https://www.automotive-manuals.net/
Airbag coil connector and return ring with slip ring, Airbag control unit, Steering column electronics control unit, Driver side airbag igniter, Front passenger side airbag igniter 1, Side airbag igniter on driver side, Side airbag igniter on front passenger side, 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
N199  Side airbag igniter on driver side
N200  Side airbag igniter on front passenger side
N250  Driver side airbag igniter 2
T2kw  2-pin connector, in driver seat
T2kv  2-pin connector
T3  3-pin connector, under driver seat
T3a  3-pin connector, under front passenger seat
T3k  3-pin connector, behind glove compartment
T4ae  4-pin connector
T100a  100-pin connector

294  Earth connection 9, in interior wiring harness

Passat

Current Flow Diagram

No. 8 / 3

https://www.automotive-manuals.net/
Airbag control unit, Driver seat belt tensioner igniter 1, Front passenger seat belt tensioner igniter 1, Driver side curtain airbag igniter, Front passenger side curtain airbag igniter

- J234  Airbag control unit
- N153  Driver seat belt tensioner igniter 1
- N154  Front passenger seat belt tensioner igniter 1
- N251  Driver side curtain airbag igniter
- N252  Front passenger side curtain airbag igniter
- T3aa  3-pin connector, yellow
- T3ac  3-pin connector, yellow
- T100a 100-pin connector

Earth connection 9, in interior wiring harness

- 294  Earth connection 9, in interior wiring harness

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**Legend:**
- ws  = white
- sw  = black
- ro  = red
- br  = brown
- gn  = green
- bl  = blue
- gr  = grey
- li  = purple
- ge  = yellow
- or  = orange
- rs  = pink
Side airbag crash sensor on driver side, Side airbag crash sensor on front passenger side, Rear side airbag crash sensor on driver side, Rear side airbag crash sensor on front passenger side, Airbag control unit

- G179 Side airbag crash sensor on driver side
- G180 Side airbag crash sensor on front passenger side
- G256 Rear side airbag crash sensor on driver side
- G257 Rear side airbag crash sensor on front passenger side
- J234 Airbag control unit
- T28 28-pin connector, in right A-pillar coupling station
- T28c 28-pin connector, in left A-pillar coupling station
- T100a 100-pin connector
- 294 Earth connection 9, in interior wiring harness

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

Passat

Current Flow Diagram

No. 8 / 5

https://www.automotive-manuals.net/
Airbag control unit, Rear belt tensioner igniter on driver side, Rear belt tensioner igniter on front passenger side, Rear side airbag igniter on driver side, Rear side airbag igniter on front passenger side

J234  Airbag control unit
N196  Rear belt tensioner igniter on driver side
N197  Rear belt tensioner igniter on front passenger side
N201  Rear side airbag igniter on driver side
N202  Rear side airbag igniter on front passenger side
T3l  3-pin connector
T3n  3-pin connector
T3s  3-pin connector, yellow
T3w  3-pin connector, yellow
T100a 100-pin connector

* Only models with rear belt tensioner
*2 Only models with rear side airbag

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gf = grey
li = purple
ge = yellow
or = orange
rs = pink
Front passenger side belt switch, Rear belt switch, driver side, Rear belt switch, front passenger side, Seat occupied sensor, front passenger side, Airbag control unit

E24  Driver side belt switch
E25  Front passenger side belt switch
E258 Rear belt switch, driver side
E259 Rear belt switch, front passenger side
G128  Seat occupied sensor, front passenger side
J234  Airbag control unit
T2g  2-pin connector, on driver seat
T2lm 2-pin connector, on front passenger seat
T4vy 4-pin connector
T100a 100-pin connector

294  Earth connection 9, in interior wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
gi = grey
bl = blue
gr = grey
li = purple
ge = yellow
or = orange
rs = pink
Airbag control unit, Control unit in dash panel insert, Data bus diagnostic interface, Seat belt warning system warning lamp, Airbag warning lamp, Battery isolation igniter

- A  Battery
- J234  Airbag control unit
- J285  Control unit in dash panel insert
- J533  Data bus diagnostic interface
- K19  Seat belt warning system warning lamp
- K75  Airbag warning lamp
- N253  Battery isolation igniter
- T2fp 2-pin connector
- T16d 16-pin connector, on diagnostic connection
- T20e 20-pin connector
- T32c 32-pin connector
- T100a 100-pin connector
- TV15  Wiring connector

- B384  Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391  Connection 2 (powertrain CAN bus, low), in main wiring harness

* Diagnostic connection
*2 Only models with battery in luggage compartment
*3 According to equipment

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

https://www.automotive-manuals.net/
All-wheel drive (4Motion)
From November 2010
Oil pressure and oil temperature sender, All-wheel drive control unit, All-wheel drive coupling pump

- F  Brake light switch
- G437  Oil pressure and oil temperature sender
- J492  All-wheel drive control unit
- J519  Onboard supply control unit
- SC6  Fuse 6 on fuse holder C
- T2hz  2-pin connector
- T4f  4-pin connector
- T6  6-pin connector
- T8z  8-pin connector
- T52c  52-pin connector
- V181  All-wheel drive coupling pump

- 77  Earth point, lower part of left B-pillar
- 378  Earth connection 13, in main wiring harness
- B335  Connection 1 (54), 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

\[\begin{align*}
\text{ws} & = \text{white} \\
\text{sw} & = \text{black} \\
\text{ro} & = \text{red} \\
\text{rt} & = \text{red} \\
\text{br} & = \text{brown} \\
\text{gn} & = \text{green} \\
\text{bl} & = \text{blue} \\
\text{gr} & = \text{grey} \\
\text{li} & = \text{purple} \\
\text{vi} & = \text{purple} \\
\text{ge} & = \text{yellow} \\
\text{or} & = \text{orange} \\
\text{rs} & = \text{pink}
\end{align*}\]
Fuel gauge, Fuel gauge sender 2, Control unit in dash panel insert, Reserve fuel warning lamp

- **G1** Fuel gauge
- **G169** Fuel gauge sender 2
- **J285** Control unit in dash panel insert
- **J533** Data bus diagnostic interface
- **K105** Reserve fuel warning lamp
- **T3ai** 3-pin connector
- **T20e** 20-pin connector
- **T32c** 32-pin connector

- **295** Earth connection 10, in interior 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

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

Reference:
https://www.automotive-manuals.net/
Electric sliding sunroof
From November 2010
Current Flow Diagram

Solar roof, Sliding sunroof adjustment regulator, Sunroof button, Sliding sunroof adjustment control unit

AX7  Solar roof
C20  Solar cells
E139 Sliding sunroof adjustment regulator
E325  Sunroof button
J126 Fresh air blower control unit
J245 Sliding sunroof adjustment control unit
J285 Control unit in dash panel insert
J393 Convenience system central control unit
SA4 Fuse 4 in fuse holder A
SA5 Fuse 5 in fuse holder A
SC30 Fuse 30 on fuse holder C
T2xp 2-pin connector
T6ah 6-pin connector
T6be 6-pin connector
T8r 8-pin connector
T10f 10-pin connector, near convenience system central control unit, black
T18a 18-pin connector
T32c 32-pin connector
V1 Sliding sunroof motor

638 Earth point, on right A-pillar
689 Earth point, at front, central in roof
B505 Positive connection 9 (30a), in interior wiring harness
* Saloon
*2 Fuses in E-box, Low
*3 Fuses in E-box, High
*4 Only models with solar roof

Legend:
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vI = purple
gen = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Entry and start authorisation
From November 2010
Driver door exterior handle central locking button, Rear left door exterior handle central locking button, Convenience system central control unit, Driver side aerial for entry and start system

- **E369** Driver door exterior handle central locking button
- **E371** Rear left door exterior handle central locking button
- **G415** Driver door exterior handle contact sensor
- **G417** Contact sensor for rear left exterior door handle
- **J393** Convenience system central control unit
- **R134** Driver side aerial for entry and start system
- **SC12** Fuse 12 on fuse holder C
- **T4ar** 4-pin connector
- **T4ci** 4-pin connector
- **T18a** 18-pin connector
- **T18c** 18-pin connector
- **T28a** 28-pin connector, on left B-pillar
- **T28c** 28-pin connector, in left A-pillar coupling station

- **77** Earth point, lower part of left B-pillar
- **377** Earth connection 12, in main wiring harness
- **378** Earth connection 13, in main wiring harness
- **684** Earth point on front of left side member

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Front passenger door exterior handle central locking button,
Rear right door exterior handle central locking button,
Convenience system central control unit, Passenger side aerial for entry and start system

- E370 Front passenger door exterior handle central locking button
- E372 Rear right door exterior handle central locking button
- G416 Front passenger door exterior handle contact sensor
- G418 Contact sensor for rear right exterior door handle
- J393 Convenience system central control unit
- R135 Passenger side aerial for entry and start system
- T4ch 4-pin connector
- T4cj 4-pin connector
- T18a 18-pin connector
- T18c 18-pin connector
- T28 28-pin connector, in right A-pillar coupling station
- T28b 28-pin connector, on right B-pillar

- 78 Earth point, lower part of right B-pillar
- 373 Earth connection 8, in main wiring harness
- 374 Earth connection 9, in main wiring harness
- 638 Earth point, on right A-pillar

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Convenience system central control unit, Rear bumper aerial for entry and start system, Luggage compartment aerial for entry and start system, Interior aerial 1 for entry and start system, Interior aerial 2 for entry and start system, Aerial 3 in interior for access and start authorisation

J393 Convenience system central control unit
R136 Rear bumper aerial for entry and start system
R137 Luggage compartment aerial for entry and start system
R138 Interior aerial 1 for entry and start system
R139 Interior aerial 2 for entry and start system
R154 Aerial 3 in interior for access and start authorisation
T2gk 2-pin connector
T18c 18-pin connector
B570 Connection 37, in main wiring harness

* Saloon
*2 Estate

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

Current Flow Diagram
No. 11 / 4

https://www.automotive-manuals.net/
Convenience system central control unit, Onboard supply control unit, Data bus diagnostic interface, Control unit for terminal control and engine start

G397  Rain and light sensor
J9    Heated rear window relay
J393  Convenience system central control unit
J519  Onboard supply control unit
J533  Data bus diagnostic interface
J942  Control unit for terminal control and engine start
SC15  Fuse 15 on fuse holder C
SC16  Fuse 16 on fuse holder C
T3ah  3-pin connector
T18a  18-pin connector
T20e  20-pin connector
T32g  32-pin connector
T52b  52-pin connector, white
T52c  52-pin connector, brown

0.35 or/br
T18a /10
T52c /16
T52c /17
T52b /17
T52c /18
B397
B397
J519
J519
B397
B397
J533
J533
T32g /8
T32g /9
T32g /10
T32g /11
T32g /12
T32g /13
T32g /14
T32g /15
400
639
B397
B406
B557
B616

Fuses:
SC15  Fuse 15 on fuse holder C
SC16  Fuse 16 on fuse holder C
T3ah  3-pin connector
T18a  18-pin connector
T20e  20-pin connector
T32g  32-pin connector
T52b  52-pin connector, white
T52c  52-pin connector, brown

Earth connections:
400  Earth connection 35, in main wiring harness
639  Earth point, left A-pillar
B397  Connection 1 (convenience CAN bus, high), in main wiring harness
B406  Connection 1 (convenience CAN bus, low), in main wiring harness
B557  Positive connection 21 (30a) in main wiring harness
B616  Positive connection 12 (30a), in interior wiring harness

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

https://www.automotive-manuals.net/
Electronic ignition lock, Onboard supply control unit, Control unit for electronic steering column lock, Control unit for terminal control and engine start

- D1 Immobiliser reading unit
- D9 Electronic ignition lock
- J519 Onboard supply control unit
- J623 Engine control unit
- J764 Control unit for electronic steering column lock
- J942 Control unit for terminal control and engine start
- N376 Ignition key withdrawal lock solenoid
- T10k 10-pin connector
- T16f 16-pin connector
- T32g 32-pin connector
- T52b 52-pin connector, white
- T52c 52-pin connector, brown
- T94 94-pin connector

- (B259) Connection (start/stop signal), in interior wiring harness
- (B340) Connection 1 (58d), in main wiring harness
- (B729) Connection 1 (50), in main wiring harness
- (S24) Positive connection (30) 3, in central locking wiring harness

* Only models with Tiptronic
*2 Only models with start/stop system
*3 Only models with petrol engine
*4 Only models with diesel engine

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

Current Flow Diagram
No. 11 / 6

https://www.automotive-manuals.net/
Switch module 1 in centre console, Entry and start authorisation button, Steering column electronics control unit, Control unit for terminal control and engine start

- **EX23**: Switch module 1 in centre console
- **E408**: Entry and start authorisation button
- **J527**: Steering column electronics control unit
- **J942**: Control unit for terminal control and engine start
- **L76**: Button illumination bulb
- **T16o**: 16-pin connector
- **T26h**: 26-pin connector
- **T32g**: 32-pin connector

- Earth connection 32, in main wiring harness
- Earth point 1, on centre tunnel

* Only models with start/stop system

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**Legend**

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

- **https://www.automotive-manuals.net/**
1.6l diesel engine, CAYC
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- A Battery
- B Starter
- J367 Battery monitor control unit
- J519 Onboard supply control unit
- J682 Terminal 50 voltage supply relay
- J710 Voltage supply relay 2
- T1ac Single connector
- T1v Single connector
- T2fj 2-pin connector
- T52a 52-pin connector
- T52b 52-pin connector

12 Earth point, on left in engine compartment
652 Earth point, engine and gearbox earth
B571 Connection 38, in main wiring harness
B684 Positive connection 24 (30a) in main wiring harness
B699 Connection 4 (LIN bus) in main wiring harness

* Only models with no start/stop system
*2 Only models with start/stop system

The diagram illustrates the current flow and connections within the vehicle's electrical system.
Terminal 30 voltage supply relay, Fuse holder A, Fuse holder B

- CX1: Alternator with voltage regulator
- J317: Terminal 30 voltage supply relay
- SA: Fuse holder A
- SA1: Fuse 1 in fuse holder A
- SA3: Fuse 3 in fuse holder A
- SA4: Fuse 4 in fuse holder A
- S204: Fuse 1 (30)
- SB: Fuse holder B
- T1a: Single connector
- T1ac: Single connector
- T2gd: 2-pin connector
- T2xr: 2-pin connector
- T4a: 4-pin connector, near starter
- T40: 40-pin connector

Threaded connections:
- 502: Threaded connection 1 (30a) on relay plate
- 507: Threaded connection (30), on battery fuse holder
- 513: Threaded connection 3 (30a) on relay plate
- 514: Threaded connection 4 (30a) on relay plate

* According to equipment
*2 Only models with start/stop system
*3 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 12 / 5

Fuel pump relay, Electric fuel pump 2 relay, Fuse holder B

- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- SB Fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB11 Fuse 11 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- SB28 Fuse 28 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector

- B362 Positive connection 13 (87a) in main wiring harness
- B429 Connection (EFPR), in main wiring harness
- * Only models with auxiliary heating
- *2 Only models with start/stop system
- *3 Push-in bridge on relay slot
- *4 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Electronic ignition lock, Current supply relay, Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4, Heater element for crankcase breather

- **D9** Electronic ignition lock
- **J16** Current supply relay
- **J623** Engine control unit
- **N30** Injector, cylinder 1
- **N31** Injector, cylinder 2
- **N32** Injector, cylinder 3
- **N33** Injector, cylinder 4
- **N79** Heater element for crankcase breather
- **T16f** 16-pin connector
- **T60** 60-pin connector
- **T94** 94-pin connector

- **131** Earth connection 2, in engine compartment wiring harness
- **645** Earth point 1, on bulkhead
- **B729** Connection 1 (50), in main wiring harness
- **D78** Positive connection 1 (30a), in engine compartment wiring harness
- **D182** Connection 3 (87a) in engine compartment wiring harness

* Only for countries with cold climate

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

https://www.automotive-manuals.net/
Gearbox neutral position switch, Charge pressure sender, Intake air temperature sender, Pressure differential sender, Low heat output relay, High heat output relay, Engine control unit

F365  Gearbox neutral position switch
G31   Charge pressure sender
G42   Intake air temperature sender
G505  Pressure differential sender
J359  Low heat output relay
J360  High heat output relay
J623  Engine control unit
T3dx  3-pin connector
T3q   3-pin connector, black
T4bo  4-pin connector
T4nu  4-pin connector, black
T94   94-pin connector

298  Earth connection 13, in interior wiring harness

B369  Connection 1 (5V), in main wiring harness
* Only models with start/stop system

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

https://www.automotive-manuals.net/
Lambda probe, Accelerator position sender, Engine control unit

G39  Lambda probe
G79  Accelerator position sender
G185 Accelerator position sender 2
J623 Engine control unit
T6ac 6-pin connector, near Lambda probe
T6q  6-pin connector
T94  94-pin connector
Z19  Lambda probe heater

298  Earth connection 13, in interior wiring harness
Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

- 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

- T2eh  2-pin connector
- T2jy  2-pin connector, black
- T2jz  2-pin connector, brown
- T2ka  2-pin connector, dark brown
- T10ap  10-pin connector, near left headlight
- T94  94-pin connector

**327** Earth connection (sender earth), in engine compartment wiring harness

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
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
- **T10ap**: 10-pin connector, near left headlight
- **T14a**: 14-pin connector, on left in engine compartment
- **T60**: 60-pin connector
- **T94**: 94-pin connector
- **B574**: Positive connection 20 (87a) in main wiring harness
- **D111**: Connection 9 in engine compartment wiring harness

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

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Engine speed sender, Coolant temperature sender, Air mass meter, Fuel temperature sender, Steering column electronics control unit, Engine control unit

G28  Engine speed sender
G62  Coolant temperature sender
G70  Air mass meter
G81  Fuel temperature sender
J527  Steering column electronics control unit
J623  Engine control unit
T3bo  3-pin connector
T16o  16-pin connector
T60  60-pin connector
T94  94-pin connector

85  Earth connection 1, in engine compartment wiring harness

(B441)  Connection (CCS), in main wiring harness
* Only models with adaptive cruise control (ACC)
*2 Only models with cruise control system (CCS)
*3 Gradual introduction
*4 From May 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
g = yellow
or = orange
rs = pink
Throttle valve potentiometer, Exhaust gas recirculation potentiometer, Fuel pressure sender, Throttle valve module, Engine control unit, Exhaust gas recirculation valve

- G69  Throttle valve potentiometer
- G212 Exhaust gas recirculation potentiometer
- G247 Fuel pressure sender
- J338 Throttle valve module
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- T3bd 3-pin connector
- T5af 5-pin connector
- T6aw 6-pin connector
- T60 60-pin connector

- 132 Earth connection 3, in engine compartment wiring harness
- D141 Connection (5V) in engine prewiring harness

Current Flow Diagram

No. 12 / 12
Hall sender, Position sender for charge pressure positioner,
Engine control unit

- G40 Hall sender
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- T3bl 3-pin connector, grey
- T3dk 3-pin connector
- T60 60-pin connector

Earth connection 3, in engine compartment wiring harness

Connection (5V) in engine prewiring harness

From May 2011

- 132 Earth connection 3, in engine compartment wiring harness

- D141 Connection (5V) in engine prewiring harness

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

- Hall sender, Position sender for charge pressure positioner,
  Engine control unit

- G40 Hall sender
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- T3bl 3-pin connector, grey
- T3dk 3-pin connector
- T60 60-pin connector

Earth connection 3, in engine compartment wiring harness

Connection (5V) in engine prewiring harness

From May 2011

- 132 Earth connection 3, in engine compartment wiring harness

- D141 Connection (5V) in engine prewiring harness

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

- **F**: Brake light switch
- **G476**: Clutch position sender
- **J519**: Onboard supply control unit
- **J540**: Control unit for electromechanical parking brake
- **J623**: Engine control unit
- **T4f**: 4-pin connector
- **T5j**: 5-pin connector
- **T30**: 30-pin connector
- **T52c**: 52-pin connector
- **T94**: 94-pin connector

- **249**: Earth connection 2, in interior wiring harness
- **398**: Earth connection 33, in main wiring harness
- **639**: Earth point, left A-pillar
- **B335**: Connection 1 (54), in main wiring harness
- **D109**: Connection 7 in engine compartment wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system
*3 Only models with extended servicing intervals (ESI)

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

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https://www.automotive-manuals.net/
Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2, Coolant circulation pump 2

- J203 Radiator fan control unit
- J623 Engine control unit
- T2be 2-pin connector, on lock carrier
- T3dl 3-pin connector
- T4i 4-pin connector, on lock carrier
- T14a 14-pin connector, on left in engine compartment
- T60 60-pin connector
- T94 94-pin connector
- V7 Radiator fan
- V177 Radiator fan 2
- V178 Coolant circulation pump 2

* Only models with start/stop system
*2 Only models with no start/stop system

- 297 Earth connection 12, in interior wiring harness
- 671 Earth point 1, on front of left longitudinal member
- 673 Earth point 3, on front of left longitudinal member

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

- 360-012150914
- J623
- J293
- V7
- V177
- V178

Passat
Current Flow Diagram
No. 12 / 15

https://www.automotive-manuals.net/
Switch module 2 in centre console, Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2

**EX30** Switch module 2 in centre console
**E693** Start/Stop operation button
**J519** Onboard supply control unit
**J532** Voltage stabiliser
**J623** Engine control unit
**J906** Starter relay 1
**J907** Starter relay 2
**K259** Start/Stop operation warning lamp
**L76** Button illumination bulb
**T12ad** 12-pin connector
**T26i** 26-pin connector
**T52b** 52-pin connector
**T52c** 52-pin connector
**T94** 94-pin connector

- **297** Earth connection 12, in interior wiring harness
- **397** Earth connection 32, in main wiring harness
- **687** Earth point 1, on centre tunnel
- **B277** Positive connection 1 (15a) in main wiring harness
- **B340** Connection 1 (58d), in main wiring harness
- **B509** Connection 3 (diagnosis), in main wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system

**Passat**

Current Flow Diagram

No. 12 / 16

https://www.automotive-manuals.net/
Current Flow Diagram

Passat

Automatic glow period control unit, Data bus diagnostic interface, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit
- J533 Data bus diagnostic interface
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- T14a 14-pin connector, on left in engine compartment
- T16d 16-pin connector
- T20e 20-pin connector
- T94 94-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

* Only models with start/stop system

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

https://www.automotive-manuals.net/
Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Glow period warning lamp, Cruise control system warning lamp, Oil level warning lamp, Reserve fuel warning lamp, Electronic power control fault lamp

- **F1** Oil pressure switch
- **G266** Oil level and oil temperature sender
- **J285** Control unit in dash panel insert
- **K** Dash panel insert
- **K2** Alternator warning lamp
- **K3** Oil pressure warning lamp
- **K28** Coolant temperature and coolant shortage warning lamp
- **K29** Glow period warning lamp
- **K31** Cruise control system warning lamp
- **K38** Oil level warning lamp
- **K105** Reserve fuel warning lamp
- **K132** Electronic power control fault lamp
- **T3bu** 3-pin connector
- **T6e** 6-pin connector, front left in engine compartment
- **T14a** 14-pin connector, on left in engine compartment
- **T32c** 32-pin connector

*B* Only models with extended servicing intervals (ESI)
*B*2 Only models with start/stop system
*B*3 Push-in bridge on relay slot
*B*4 Only models with no start/stop system

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ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
li = purple  
vpi = yellow  
vr = orange  
rs = pink
Fuel gauge sender, Fuel gauge, Coolant temperature gauge, Rev. counter, Fuel system pressurisation pump, Speedometer, Coolant shortage indicator sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert

- G Fuel gauge sender
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G5 Rev. counter
- G6 Fuel system pressurisation pump
- G21 Speedometer
- G32 Coolant shortage indicator sender
- G169 Fuel gauge sender 2
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K Dash panel insert
- T2gd 2-pin connector
- T3ai 3-pin connector
- T5d 5-pin connector
- T32c 32-pin connector

78 Earth point, lower part of right B-pillar
295 Earth connection 10, in interior wiring harness

* Only models with all-wheel drive

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vl = purple
g = yellow
or = orange
rs = pink
Panoramic sliding sunroof
From November 2010
Sun blind and sunroof button, Sliding sunroof adjustment control unit, Sunroof roller blind control unit, Fuse 3 on fuse holder D

- E1 Light switch
- E437 Sun blind and sunroof button
- J245 Sliding sunroof adjustment control unit
- J394 Sunroof roller blind control unit
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- L65 Sliding sunroof switch illumination bulb
- SD3 Fuse 3 on fuse holder D
- SD30 Fuse 30 on fuse holder C

T6ub 6-pin connector, on roof module, in interior light switch trim, sunroof, black
T10j 10-pin connector
T10xb 10-pin connector
T16p 16-pin connector
T16q 16-pin connector
T20e 20-pin connector
T52b 52-pin connector
V1 Sliding sunroof motor
V260 Sunroof roller blind motor

178 Earth connection, in sliding sunroof wiring harness
689 Earth point, at front, central in roof
B264 Connection 1, in roof wiring harness
B340 Connection 1 (58d), in main wiring harness
B341 Connection 2 (58d), in main wiring harness
B698 Connection 3 (LIN bus) in main wiring harness
B710 Connection 5 (LIN bus) in main wiring harness

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

https://www.automotive-manuals.net/
2.0l diesel engine, CFFA, CFFB, CFGB, CLLA
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- **A** Battery
- **B** Starter
- **J367** Battery monitor control unit
- **J519** Onboard supply control unit
- **J682** Terminal 50 voltage supply relay
- **J710** Voltage supply relay 2
- **T1v** 1-pin connector
- **T2fj** 2-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

12 Earth point, on left in engine compartment

652 Earth point, engine and gearbox earth

**B571** Connection 38, in main wiring harness

**B684** Positive connection 24 (30a) in main wiring harness

**B699** Connection 4 (LIN bus) in main wiring harness

* Only models with no start/stop system

*2 Only models with start/stop system

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Terminal 15 voltage supply relay, Fuse holder C

- J329 Terminal 15 voltage supply relay
- SC Fuse holder C
- SC1 Fuse 1 on fuse holder C
- SC3 Fuse 3 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC48 Fuse 48 on fuse holder C

- B239 Positive connection 1 (50), in interior wiring harness
- B290 Positive connection 14 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B317 Positive connection 3 (30a) in main wiring harness
- B330 Positive connection 16 (30a) in main wiring harness
- B571 Connection 38, in main wiring harness
- B598 Positive connection 11 (30a), in interior wiring harness

* Only models with start/stop system
*2 Only models with extended servicing intervals (ESI)
*3 Only models with no start/stop system

Legend:
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vl = purple
gy = yellow
or = orange
rs = pink
Fuel pump relay, Electric fuel pump 2 relay, Fuse holder B

- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- SB Fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB11 Fuse 11 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SB54 Fuse 54 on fuse holder B
- T40 40-pin connector

* B362 Positive connection 13 (87a) in main wiring harness
* B429 Connection (EFPR), in main wiring harness
  * Only models with auxiliary heating
  *2 Only models with start/stop system
  *3 Only models with manual gearbox
  *4 Only models with no start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bi = blue
g = grey
li = purple
vi = purple
g = yellow
or = orange
rs = pink
Electronic ignition lock, Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4, Heater element for crankcase breather

D9  Electronic ignition lock
J623 Engine control unit
N30  Injector, cylinder 1
N31  Injector, cylinder 2
N32  Injector, cylinder 3
N33  Injector, cylinder 4
N79  Heater element for crankcase breather
T16f 16-pin connector
T60  60-pin connector
T94  94-pin connector

131  Earth connection 2, in engine compartment wiring harness
645  Earth point 1, on bulkhead
B729  Connection 1 (50), in main wiring harness
D78  Positive connection 1 (30a), in engine compartment wiring harness
D182  Connection 3 (87a), in engine compartment wiring harness

*  Only for countries with cold climate
*2  Only models with manual gearbox

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

https://www.automotive-manuals.net/
Intake manifold sender, Charge pressure sender, Intake air temperature sender, Pressure differential sender, Gearbox neutral position sender, Low heat output relay, High heat output relay, Engine control unit

- **GX9** Intake manifold sender
- **G31** Charge pressure sender
- **G42** Intake air temperature sender
- **G505** Pressure differential sender
- **G701** Gearbox neutral position sender
- **J359** Low heat output relay
- **J360** High heat output relay
- **J623** Engine control unit
- **T3dx** 3-pin connector
- **T3q** 3-pin connector, black
- **T4bo** 4-pin connector
- **T4nu** 4-pin connector, black, on gearbox
- **T94** 94-pin connector

- 298 Earth connection 13, in interior wiring harness
- B369 Connection 1 (5V), in main wiring harness
  - Only models with start/stop system
  - Only models with no start/stop system

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

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https://www.automotive-manuals.net/
Accelerator pedal module, Lambda probe 1 before catalytic converter, Lambda probe, Accelerator position sender, Engine control unit

GX2  Accelerator pedal module
GX10 Lambda probe 1 before catalytic converter
G39  Lambda probe
G79  Accelerator position sender
G185  Accelerator position sender 2
J623  Engine control unit
T6ac  6-pin connector, near Lambda probe
T6q  6-pin connector
T94  94-pin connector
Z19  Lambda probe heater
* Only models with no start/stop system

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

https://www.automotive-manuals.net/
Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

- 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
- T2eh  2-pin connector
- T2jy  2-pin connector, black
- T2jz  2-pin connector, brown
- T2ka  2-pin connector, dark brown
- T10ap  10-pin connector, near left headlight
- T94  94-pin connector

327  Earth connection (sender earth), in engine compartment wiring harness

* According to equipment

Legend:
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
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
T10ap 10-pin connector, near left headlight
T14a  14-pin connector, on left in engine compartment
T60   60-pin connector
T94   94-pin connector

B574  Positive connection 20 (87a) in main wiring harness
D111  Connection 9 in engine compartment wiring harness

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

https://www.automotive-manuals.net/
Coolant temperature sender, Air mass meter, Fuel temperature sender, Steering column electronics control unit, Engine control unit

G62  Coolant temperature sender
G70  Air mass meter
G81  Fuel temperature sender
J527  Steering column electronics control unit
J623  Engine control unit
T160  16-pin connector
T60  60-pin connector
T94  94-pin connector
85  Earth connection 1, in engine compartment wiring harness
B441  Connection (CCS), in main wiring harness

*  From October 2011
*2  Only models with adaptive cruise control (ACC)
*3  Only models with cruise control system (CCS)
*4  Gradual introduction
*5  Up to October 2011
Exhaust gas recirculation valve 1, Throttle valve potentiometer, Fuel pressure sender, Throttle valve module, Engine control unit, Exhaust gas recirculation valve

- GX5 Exhaust gas recirculation valve 1
- G69 Throttle valve potentiometer
- G212 Exhaust gas recirculation potentiometer
- G247 Fuel pressure sender
- J338 Throttle valve module
- J623 Engine control unit
- N18 Exhaust gas recirculation valve
- T3bd 3-pin connector
- T5af 5-pin connector
- T6aw 6-pin connector
- T60 60-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- **D174** Connection 2 (5V) in engine wiring harness
  - * Up to October 2011
  - **2** From November 2011

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**Current Flow Diagram**

- Passat
- No. 14 / 12

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- **gs** = grey
- **br*** = brown
- **rt*** = red
- **gn*** = green
- **bl*** = blue
- **gr*** = grey
- **li*** = purple
- **vi*** = violet
- **ge*** = green
- **or*** = orange
- **rs*** = pink

---

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

---

https://www.automotive-manuals.net/
Engine speed sender, Hall sender, Position sender for charge pressure positioner, Engine control unit

- G28  Engine speed sender
- G40  Hall sender
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- T3bl  3-pin connector, grey
- T3bo  3-pin connector
- T3dk  3-pin connector
- T60  60-pin connector
- 85  Earth connection 1, in engine compartment wiring harness
- D174 Connection 2 (5V) in engine prewiring harness

*  Up to October 2011
*2 From November 2011

Passat Current Flow Diagram

Engine speed sender, Hall sender, Position sender for charge pressure positioner, Engine control unit

- G28  Engine speed sender
- G40  Hall sender
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- T3bl  3-pin connector, grey
- T3bo  3-pin connector
- T3dk  3-pin connector
- T60  60-pin connector
- 85  Earth connection 1, in engine compartment wiring harness
- D174 Connection 2 (5V) in engine prewiring harness

*  Up to October 2011
*2 From November 2011

Passat Current Flow Diagram

Engine speed sender, Hall sender, Position sender for charge pressure positioner, Engine control unit

- G28  Engine speed sender
- G40  Hall sender
- G581 Position sender for charge pressure positioner
- J623 Engine control unit
- T3bl  3-pin connector, grey
- T3bo  3-pin connector
- T3dk  3-pin connector
- T60  60-pin connector
- 85  Earth connection 1, in engine compartment wiring harness
- D174 Connection 2 (5V) in engine prewiring harness

*  Up to October 2011
*2 From November 2011
Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

- F  Brake light switch
- G476  Clutch position sender
- J519  Onboard supply control unit
- J540  Control unit for electromechanical parking brake
- J623  Engine control unit
- J743  Mechatronic unit for dual clutch gearbox
- T4f  4-pin connector
- T5j  5-pin connector
- T20  20-pin connector
- T30  30-pin connector
- T52c  52-pin connector
- T94  94-pin connector

- 249  Earth connection 2, in interior wiring harness
- 398  Earth connection 33, in main wiring harness
- 639  Earth point, left A-pillar
- B335  Connection 1 (54), in main wiring harness
- D109  Connection 7 in engine compartment wiring harness

* Only models with manual gearbox
*2 Only models with dual clutch gearbox (DSG)
*3 Only models with start/stop system
*4 Only models with no start/stop system
*5 Only models with extended servicing intervals (ESI)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = yellow
- ge = grey
- or = orange
- rs = pink
Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2, Coolant circulation pump 2

- **J203** Radiator fan control unit
- **J623** Engine control unit
- **T2be** 2-pin connector, on lock carrier
- **T3di** 3-pin connector
- **T4i** 4-pin connector, on lock carrier
- **T14a** 14-pin connector, on left in engine compartment
- **T60** 60-pin connector
- **T94** 94-pin connector
- **V7** Radiator fan
- **V177** Radiator fan 2
- **V178** Coolant circulation pump 2

- **297** Earth connection 12, in interior wiring harness
- **671** Earth point 1, on front of left longitudinal member
- **673** Earth point 3, on front of left longitudinal member

* Only models with start/stop system
*2 Only models with no start/stop system
Switch module 2 in centre console, Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2

- EX30: Switch module 2 in centre console
- E693: Start/Stop operation button
- J519: Onboard supply control unit
- J532: Voltage stabiliser
- J623: Engine control unit
- J906: Starter relay 1
- J907: Starter relay 2
- K259: Start/Stop operation warning lamp
- L76: Button illumination bulb
- T12ad: 12-pin connector
- T26i: 26-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector
- T94: 94-pin connector

**Notes:**
- 297: Earth connection 12, in interior wiring harness
- 397: Earth connection 32, in main wiring harness
- 687: Earth point 1, on centre tunnel
- B277: Positive connection 1 (15a) in main wiring harness
- B340: Connection 1 (58d), in main wiring harness
- B509: Connection 3 (diagnosis), in main wiring harness
- *2: Only models with no start/stop system
Automatic glow period control unit, Data bus diagnostic interface, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit
- J533 Data bus diagnostic interface
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- T14a 14-pin connector, on left in engine compartment
- T16d 16-pin connector
- T20e 20-pin connector
- T94 94-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

* Only models with start/stop system

Current Flow Diagram

No. 14 / 17

https://www.automotive-manuals.net/
Temperature sender for reducing agent, Reducing agent level sender, Evaluation unit for reducing agent level, Engine control unit, Control unit for reducing agent heater

G685  Temperature sender for reducing agent
G697  Reducing agent level sender
G698  Evaluation unit for reducing agent level
J623  Engine control unit
J891  Control unit for reducing agent heater
SB18  Fuse 18 on fuse holder B
T3sh  3-pin connector
T4sd  4-pin connector
T4se  4-pin connector
T5sc  5-pin connector
T14sg 14-pin connector
T94  94-pin connector
Z102  Heater for reducing agent tank (heater circuit 1)

(B351) Positive connection 2 (87a) in main wiring harness

(W67) Connection (87), in floor wiring harness

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

https://www.automotive-manuals.net/
Pressure sender for reducing agent metering system, Engine control unit, Reversing valve for reducing agent, Injector for reducing agent, Pump for reducing agent

- **G686** Pressure sender for reducing agent metering system
- **J623** Engine control unit
- **N473** Reversing valve for reducing agent
- **N474** Injector for reducing agent
- **T3si** 3-pin connector
- **T5si** 5-pin connector
- **T8sh** 8-pin connector
- **T94** 94-pin connector
- **V437** Pump for reducing agent
- **Z103** Heater for reducing agent pump (heater circuit 2)

**Earth Points and Connections**
- **50** Earth point, on left in luggage compartment
- **336** Earth connection 1, in floor wiring harness
- **394** Earth connection 29, in main wiring harness
- **W67** Connection (87), in floor wiring harness

Colour Code:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
NOx sender 2, Engine control unit, Control unit for NOx sender 2, Heater for reducing agent line (heater circuit 2)

- G687: NOx sender 2
- J623: Engine control unit
- J881: Control unit for NOx sender 2
- T5ao: 5-pin connector
- T8sh: 8-pin connector
- T94: 94-pin connector
- Z104: Heater for reducing agent line (heater circuit 2)
- 394: Earth connection 29, in main wiring harness
- 400: Earth connection 35, in main wiring harness
- B599: Positive connection 3 (87a), in interior wiring harness
- Adapter wire

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Glow period warning lamp, Oil level warning lamp, Reserve fuel warning lamp

- F1 Oil pressure switch
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K Dash panel insert
- K2 Alternator warning lamp
- K3 Oil pressure warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K29 Glow period warning lamp
- K38 Oil level warning lamp
- K105 Reserve fuel warning lamp

- T3bu 3-pin connector
- T6e 6-pin connector, front left in engine compartment
- T14a 14-pin connector, on left in engine compartment
- T32c 32-pin connector

- B163 Positive connection 1 (15), in interior wiring harness

* Only models with extended servicing intervals (ESI)
*2 Only models with start/stop system
*3 Only models with no start/stop system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = yellow
- or = orange
- rs = pink
Fuel gauge sender, Fuel gauge, Coolant temperature gauge, Rev. counter, Fuel system pressurisation pump, Speedometer, Coolant shortage indicator sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Cruise control system warning lamp, Electronic power control fault lamp

- G Fuel gauge sender
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G5 Rev. counter
- G6 Fuel system pressurisation pump
- G21 Speedometer
- G32 Coolant shortage indicator sender
- G169 Fuel gauge sender 2
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K Dash panel insert
- K31 Cruise control system warning lamp
- K132 Electronic power control fault lamp
- T2gd 2-pin connector
- T3ai 3-pin connector
- T5d 5-pin connector
- T32c 32-pin connector

- 78 Earth point, lower part of right B-pillar
- 295 Earth connection 10, in interior wiring harness

* Only models with all-wheel drive
1.4l petrol engine, CAXA
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- A Battery
- B Starter
- J367 Battery monitor control unit
- J519 Onboard supply control unit
- J682 Terminal 50 voltage supply relay
- J710 Voltage supply relay 2
- T1v Single connector
- T2fj 2-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 12 Earth point, on left in engine compartment
- (B571) Connection 38, in main wiring harness
- (B684) Positive connection 24 (30a) in main wiring harness
- (B699) Connection 4 (LIN bus) in main wiring harness

* Only models with no start/stop system
*2 Only models with start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- J329 Terminal 15 voltage supply relay
- SA Fuse holder A
- SC1 Fuse 1 on fuse holder C
- SA4 Fuse 4 in fuse holder A
- SC Fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC39 Fuse 39 on fuse holder C
- SC48 Fuse 48 on fuse holder C

- 507 Threaded connection (30), on battery fuse holder
- 514 Threaded connection 4 (30a) on relay plate
- B239 Positive connection 1 (50), in interior wiring harness
- B290 Positive connection 14 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B330 Positive connection 16 (30a) in main wiring harness
- B571 Connection 38, in main wiring harness
- B598 Positive connection 11 (30a), in interior wiring harness

* Only models with stop/start system
*2 Only models with start/stop system
*3 Only models with equipment for Japan

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Alternator with voltage regulator, Additional coolant pump relay, Fuse holder A, Fuse holder B, Coolant circulation pump

CX1  Alternator with voltage regulator
J406  Additional coolant pump relay
SA   Fuse holder A
SA1  Fuse 1 in fuse holder A
SA3  Fuse 3 in fuse holder A
SB   Fuse holder B
SB17 Fuse 17 on fuse holder B
T2gc  2-pin connector
T4a   4-pin connector, near starter
T14a  14-pin connector
T40   40-pin connector
V50   Coolant circulation pump

249  Earth connection 2, in interior wiring harness

639  Earth point, left A-pillar

* Only models with 140A alternator
*2 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Main relay, Fuse holder B

- J271 Main relay
- SB Fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- SB11 Fuse 11 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector

12 Earth point, on left in engine compartment
652 Earth point, engine and gearbox earth
B325 Positive connection 11 (30a) in main wiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
g = yellow
or = orange
rs = pink
Engine control unit, Fuse holder B

- G294 Brake servo pressure sensor
- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4xi 4-pin connector
- T14a 14-pin connector
- T40 40-pin connector
- T94 94-pin connector

**Earth connections**
- 85 Earth connection 1, in engine compartment wiring harness
- 131 Earth connection 2, in engine compartment wiring harness
- 297 Earth connection 12, in interior wiring harness
- 645 Earth point 1, on bulkhead
- 673 Earth point 3, on front of left longitudinal member
- (D182) Connection 3 (87a), in engine compartment wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system

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

**Additional notes:**
- 57 Passat Current Flow Diagram
- 04.2016
- https://www.automotive-manuals.net/
Current Flow Diagram

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, Spark plug connector, Spark plugs

- J623: Engine control unit, central in plenum chamber
- 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
- T4ba: 4-pin connector
- T4bb: 4-pin connector
- T4bc: 4-pin connector
- T4bd: 4-pin connector
- T14a: 14-pin connector
- T60: 60-pin connector
- T94: 94-pin connector

15: Earth point, on cylinder head
85: Earth connection 1, in engine compartment wiring harness
281: Earth point 1, engine prewiring harness
D206: Connection 4 (87a) in engine prewiring harness
* Only models with no start/stop system

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

https://www.automotive-manuals.net/
Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

G79  Accelerator position sender
G185  Accelerator position sender 2
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
J623  Engine control unit, central in plenum chamber
T6at  6-pin connector
T6q  6-pin connector
T60  60-pin connector
T94  94-pin connector

Passat
Current Flow Diagram
No. 15 / 8

Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

G79  Accelerator position sender
G185  Accelerator position sender 2
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
J623  Engine control unit, central in plenum chamber
T6at  6-pin connector
T6q  6-pin connector
T60  60-pin connector
T94  94-pin connector

Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

G79  Accelerator position sender
G185  Accelerator position sender 2
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
J623  Engine control unit, central in plenum chamber
T6at  6-pin connector
T6q  6-pin connector
T60  60-pin connector
T94  94-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gt = yellow
or = orange
sr = pink
Engine speed sender, Charge pressure sender, Intake air temperature sender, Intake manifold pressure sender, Intake air temperature sender 2, 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, central in plenum chamber

**Connectors**:
- **T3bq**: 3-pin connector
- **T4bl**: 4-pin connector
- **T4nq**: 4-pin connector
- **T60**: 60-pin connector

**Connections**:
- **220**: Earth connection (sender earth), in engine wiring harness
- **D101**: Connection 1 in engine compartment wiring harness
- **D102**: Connection 2 in engine compartment wiring harness

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

[Diagram of Passat Current Flow Diagram No. 15/9]
Hall sender, Coolant temperature sender, Radiator outlet coolant temperature sender, Fuel pressure sender, Engine control unit, Vacuum pump for brakes

- **G40** Hall sender
- **G62** Coolant temperature sender
- **G83** Radiator outlet coolant temperature sender, black
- **G247** Fuel pressure sender
- **J623** Engine control unit, central in plenum chamber
- **T3bj** 3-pin connector
- **T3br** 3-pin connector
- **T6ja** 6-pin connector
- **T60** 60-pin connector
- **T94** 94-pin connector
- **V192** Vacuum pump for brakes

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

- **607** Earth point, on left in plenum chamber

- **D101** Connection 1 in engine compartment wiring harness

* Only models with equipment for Japan

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

**References:**
- https://www.automotive-manuals.net/
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623  Engine control unit, central in plenum chamber
N30   Injector, cylinder 1
N31   Injector, cylinder 2
N32   Injector, cylinder 3
N33   Injector, cylinder 4
T60   60-pin connector

1.5  rt/sw
1.5  br/sw
1.5  rt/ws
1.5  br/ws
1.5  rt/vi
1.5  br/vi
1.5  rt/gr
1.5  br/gr

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

https://www.automotive-manuals.net/
Knock sensor 1, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

- **G61** Knock sensor 1
- **J293** Radiator fan control unit
- **J623** Engine control unit, central in plenum chamber
- **T2be** 2-pin connector, on lock carrier
- **T4i** 4-pin connector, on lock carrier
- **T60** 60-pin connector
- **T94** 94-pin connector
- **V7** Radiator fan
- **V177** Radiator fan 2

- **671** Earth point 1, on front of left longitudinal member
- **B364** Positive connection 15 (87a) in main wiring harness
Electronic ignition lock, Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve

- **D9** Electronic ignition lock
- **J527** Steering column electronics control unit
- **J623** Engine control unit, central in plenum chamber
- **N75** Charge pressure control solenoid valve
- **N80** Activated charcoal filter solenoid valve 1
- **N205** Camshaft control valve 1
- **N249** Turbocharger air recirculation valve
- **T14a** 14-pin connector
- **T16f** 16-pin connector
- **T16o** 16-pin connector
- **T60** 60-pin connector
- **T94** 94-pin connector

- **B364** Positive connection 15 (87a) in main wiring harness
- **B441** Connection (CCS), in main wiring harness
- **B729** Connection 1 (50), in main wiring harness
- **D196** Connection 2 (87a) in engine prewiring harness
  - * Only models with adaptive cruise control (ACC)
  - **2** Speed signal
  - **3** Only models with start/stop system
  - **4** Gradual introduction

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

Passat

Current Flow Diagram

No. 15 / 13

https://www.automotive-manuals.net/
Gearbox neutral position switch, Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

F365 Gearbox neutral position switch
G39 Lambda probe
G130 Lambda probe after catalytic converter
J623 Engine control unit, central in plenum chamber
T3dx 3-pin connector
T4no 4-pin connector
T6w 6-pin connector
T94 94-pin connector
Z19 Lambda probe heater
Z29 Lambda probe 1 heater after catalytic converter

D189 Connection (87a) in engine prewiring harness

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

https://www.automotive-manuals.net/
Switch module 2 in centre console, Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2

- EX30: Switch module 2 in centre console
- E693: Start/Stop operation button
- J519: Onboard supply control unit
- J532: Voltage stabiliser
- J623: Engine control unit, central in plenum chamber
- J906: Starter relay 1
- J907: Starter relay 2
- K259: Start/Stop operation warning lamp
- L76: Button illumination bulb
- T12ad: 12-pin connector
- T26i: 26-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector
- T94: 94-pin connector

Legend:
- Earth connection 12, in interior wiring harness
- Earth connection 32, in main wiring harness
- Earth point 3, on front of left longitudinal member
- Earth point 1, on centre tunnel
- Positive connection 1 (15a) in main wiring harness
- Connection 1 (58d), in main wiring harness
- Connection 3 (diagnosis), in main wiring harness

* Only models with start/stop system

Color codes:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Brake light switch, Clutch position sender, Engine control unit, Fuel pressure regulating valve

- **F** Brake light switch
- **G476** Clutch position sender
- **J519** Onboard supply control unit
- **J540** Control unit for electromechanical parking brake
- **J623** Engine control unit, central in plenum chamber
- **J743** Mechatronic unit for dual clutch gearbox
- **N276** Fuel pressure regulating valve
- **T4f** 4-pin connector
- **T5j** 5-pin connector
- **T14a** 14-pin connector, on left in engine compartment
- **T25** 25-pin connector
- **T30** 30-pin connector
- **T52c** 52-pin connector
- **T60** 60-pin connector
- **T94** 94-pin connector

- **398** Earth connection 33, in main wiring harness
- **639** Earth point, left A-pillar
- **B335** Connection 1 (54), 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
- **B585** Positive connection 2 (87a), in main wiring harness
- **D109** Connection 7 in engine compartment wiring harness

* Only models with manual gearbox
*2 Only models with start/stop system
*3 Only models with dual clutch gearbox (DSG)
*4 Only models with no start/stop system
*5 Wiring colour depends on equipment

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

- **G** Fuel gauge sender
- G6 Fuel system pressurisation pump
- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- J538 Fuel pump control unit
- T5a 5-pin connector
- T10p 10-pin connector
- T16d 16-pin connector, on diagnostic connection
- T20e 20-pin connector
- T52b 52-pin connector

- 78 Earth point, lower part of right B-pillar
- 295 Earth connection 10, in interior 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

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

Passat Current Flow Diagram No. 15 / 17

https://www.automotive-manuals.net/
Coolant shortage indicator sender, Fuel gauge sender 2,
Control unit in dash panel insert, Dash panel insert,
Alternator warning lamp, Oil pressure warning lamp,
Coolant temperature and coolant shortage warning lamp,
Cruise control system warning lamp, Reserve fuel warning lamp

G32  Coolant shortage indicator sender
G169  Fuel gauge sender 2
J285  Control unit in dash panel insert
K  Dash panel insert
K2  Alternator warning lamp
K3  Oil pressure warning lamp
K28  Coolant temperature and coolant shortage warning lamp
K31  Cruise control system warning lamp
K105  Reserve fuel warning lamp
T3ai  3-pin connector
T32c  32-pin connector

Earth connection 10, in interior wiring harness
*  Only models with all-wheel drive
*2  Only models with start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = yellow
vi = purple
ge = purple
or = orange
rs = pink
Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G5 Rev. counter
- G266 Oil level and oil temperature sender
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K Dash panel insert
- K38 Oil level warning lamp
- K132 Electronic power control fault lamp
- T3bu 3-pin connector
- T6e 6-pin connector
- T14a 14-pin connector, on left in engine compartment
- T32c 32-pin connector
- B163 Positive connection 1 (15), in interior wiring harness

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

Passat

Current Flow Diagram

No. 15 / 19

04.2016

https://www.automotive-manuals.net/
1.4l petrol engine, CDGA
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

A  Battery
B  Starter
J367  Battery monitor control unit
J519  Onboard supply control unit
J682  Terminal 50 voltage supply relay
J710  Voltage supply relay 2
T1v  Single connector
T2fj  2-pin connector
T52a  52-pin connector
T52b  52-pin connector
T52c  52-pin connector

12  Earth point, on left in engine compartment

(B571)  Connection 38, in main wiring harness

(B684)  Positive connection 24 (30a) in main wiring harness

(B699)  Connection 4 (LIN bus) in main wiring harness

*  Only models with energy recovery

Legend:
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- J329  Terminal 15 voltage supply relay
- SA  Fuse holder A
- SC  Fuse holder C
- SC1  Fuse 1 on fuse holder C
- SC3  Fuse 3 on fuse holder C
- SA4  Fuse 4 in fuse holder A
- SC10  Fuse 10 on fuse holder C
- SC27  Fuse 27 on fuse holder C

- 12  Earth point, on left in engine compartment
- 507  Threaded connection (30), on battery fuse holder
- 514  Threaded connection 4 (30a) on relay plate
- 652  Earth point, engine and gearbox earth
- B290  Positive connection 14 (15a) in main wiring harness
- B291  Positive connection 15 (15a) in main wiring harness
- B330  Positive connection 16 (30a) in main wiring harness
- B571  Connection 38, in main wiring harness

Current Flow Diagram

Passat

No. 16 / 3

https://www.automotive-manuals.net/
Alternator with voltage regulator, Relay for gas shut-off valves, Fuel tank shut-off valve 1, Fuel tank shut-off valve 2, Fuel tank shut-off valve 3, Fuse holder A, Fuse holder B

- CX1: Alternator with voltage regulator
- J519: Onboard supply control unit
- J908: Relay for gas shut-off valves
- N361: Fuel tank shut-off valve 1
- N362: Fuel tank shut-off valve 2
- N363: Fuel tank shut-off valve 3
- SA: Fuse holder A
- SA1: Fuse 1 in fuse holder A
- SA3: Fuse 3 in fuse holder A
- SB: Fuse holder B
- SB17: Fuse 17 on fuse holder B
- T2gc: 2-pin connector
- T4a: 4-pin connector, near starter
- T6uc: 6-pin connector
- T14h: 14-pin connector
- T40: 40-pin connector
- T52c: 52-pin connector

Earth points:
- 50: Earth point, on left in luggage compartment
- 359: Earth connection, in gas mode wiring harness
- G12: Connection 1 in gas mode wiring harness
- G13: Connection 2 in gas mode wiring harness

* Only models with energy recovery

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

https://www.automotive-manuals.net/
Main relay, Fuse holder B, Metering pump

J271  Main relay
J364  Auxiliary heater control unit
SB  Fuse holder B
SB5  Fuse 5 on fuse holder B
SB10  Fuse 10 on fuse holder B
SB11  Fuse 11 on fuse holder B
SB13  Fuse 13 on fuse holder B
SB30  Fuse 30 on fuse holder B
T8ai  8-pin connector
T14h  14-pin connector
T40  40-pin connector
V54  Metering pump

50  Earth point, on left in luggage compartment
249  Earth connection 2, in interior wiring harness
359  Earth connection, in gas mode wiring harness
639  Earth point, left A-pillar
B325  Positive connection 11 (30a) in main wiring harness

* Only models with auxiliary coolant heater

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vl = purple
g = yellow
or = orange
rs = pink
Engine control unit, Fuse holder B

- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB18 Fuse 18 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T14a 14-pin connector
- T40 40-pin connector
- T94 94-pin connector

86 Earth connection 1, in engine compartment wiring harness
131 Earth connection 2, in engine compartment wiring harness
645 Earth point 1, on bulkhead
673 Earth point 3, on front of left longitudinal member
D182 Connection 3 (87a), in engine compartment wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
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, Spark plug connector, Spark plugs

- J623 Engine control unit, central in plenum chamber
- 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
- T4ba 4-pin connector
- T4bb 4-pin connector
- T4bc 4-pin connector
- T4bd 4-pin connector
- T14a 14-pin connector
- T60 60-pin connector
- T94 94-pin connector
- 15 Earth point, on cylinder head
- 85 Earth connection 1, in engine compartment wiring harness
- 281 Earth point 1, engine prewiring harness
- (D206) Connection 4 (87a) in engine prewiring harness

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Accelerator pedal module, Throttle valve module, Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

GX2 Accelerator pedal module
GX3 Throttle valve module
G79 Accelerator position sender
G185 Accelerator position sender 2
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
J623 Engine control unit, central in plenum chamber
T8at 6-pin connector
T6q 6-pin connector
T60 60-pin connector
T94 94-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Engine speed sender, Charge pressure sender, Intake air temperature sender, Intake manifold pressure sender, Intake air temperature sender 2, Gas rail sensor, 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
G401 Gas rail sensor
J623 Engine control unit, central in plenum chamber
T3bq 3-pin connector
T4nq 4-pin connector
T4vx 4-pin connector
T14a 14-pin connector, on left in engine compartment
T60 60-pin connector
T94 94-pin connector

220 Earth connection (sender earth), in engine wiring harness
(D101) Connection 1 in engine compartment wiring harness
(D102) Connection 2 in engine compartment wiring harness

<table>
<thead>
<tr>
<th>#</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
</tr>
</tbody>
</table>

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

https://www.automotive-manuals.net/
Intake air temperature sender 3, Intake manifold pressure sender 3, Regulating flap potentiometer, Engine control unit, Regulating flap control unit, Regulating flap position control motor

- G520 Intake air temperature sender 3
- G583 Intake manifold pressure sender 3
- G584 Regulating flap potentiometer
- J623 Engine control unit, central in plenum chamber
- J808 Regulating flap control unit
- T4nr 4-pin connector
- T5ao 5-pin connector
- T60 60-pin connector
- V380 Regulating flap position control motor

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

D101 Connection 1 in engine compartment wiring harness
Hall sender, Coolant temperature sender, Radiator outlet coolant temperature sender, Fuel pressure sender, Engine control unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G40</td>
<td>Hall sender</td>
</tr>
<tr>
<td>G62</td>
<td>Coolant temperature sender</td>
</tr>
<tr>
<td>G83</td>
<td>Radiator outlet coolant temperature sender, black</td>
</tr>
<tr>
<td>G247</td>
<td>Fuel pressure sender</td>
</tr>
<tr>
<td>J623</td>
<td>Engine control unit, central in plenum chamber</td>
</tr>
<tr>
<td>T3bj</td>
<td>3-pin connector</td>
</tr>
<tr>
<td>T3br</td>
<td>3-pin connector</td>
</tr>
<tr>
<td>T60</td>
<td>60-pin connector</td>
</tr>
<tr>
<td>T94</td>
<td>94-pin connector</td>
</tr>
</tbody>
</table>

- **220**: Earth connection (sender earth), in engine wiring harness
- **D101**: Connection 1 in engine compartment wiring harness

---

**Legend**
- **ws**: white
- **sw**: black
- **ro**: red
- **rt**: red
- **br**: brown
- **gn**: green
- **bl**: blue
- **gr**: grey
- **li**: purple
- **vi**: purple
- **ge**: yellow
- **or**: orange
- **rs**: pink
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623  Engine control unit, central in plenum chamber
N30  Injector, cylinder 1
N31  Injector, cylinder 2
N32  Injector, cylinder 3
N33  Injector, cylinder 4
T60  60-pin connector

Passat
Current Flow Diagram
No. 16 / 12

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

https://www.automotive-manuals.net/
Tank pressure sensor, Engine control unit, Gas injection valve 1, Gas injection valve 2, Gas injection valve 3, Gas injection valve 4, High-pressure valve for gas mode

G400  Tank pressure sensor
J623  Engine control unit, central in plenum chamber
N366  Gas injection valve 1
N367  Gas injection valve 2
N368  Gas injection valve 3
N369  Gas injection valve 4
N372  High-pressure valve for gas mode
T2lk  2-pin connector
T3dv  3-pin connector
T14a  14-pin connector, on left in engine compartment
T60   60-pin connector
T94   94-pin connector
D176  Connection (gas injector), in engine compartment wiring harness

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**Current Flow Diagram**

Tank pressure sensor, Engine control unit, Gas injection valve 1, Gas injection valve 2, Gas injection valve 3, Gas injection valve 4, High-pressure valve for gas mode

G400  Tank pressure sensor
J623  Engine control unit, central in plenum chamber
N366  Gas injection valve 1
N367  Gas injection valve 2
N368  Gas injection valve 3
N369  Gas injection valve 4
N372  High-pressure valve for gas mode
T2lk  2-pin connector
T3dv  3-pin connector
T14a  14-pin connector, on left in engine compartment
T60   60-pin connector
T94   94-pin connector
D176  Connection (gas injector), in engine compartment wiring harness

---

**Diagram Details**

- Tank pressure sensor (G400)
- Engine control unit (J623)
- Gas injection valves 1-4 (N366-N369)
- High-pressure valve for gas mode (N372)
- Connectors:
  - T2lk: 2-pin connector
  - T3dv: 3-pin connector
  - T14a: 14-pin connector
- Wiring harness connection (D176)

---

**Color Key**

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

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https://www.automotive-manuals.net/
Knock sensor 1, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

- **G61**  Knock sensor 1
- **J293**  Radiator fan control unit
- **J623**  Engine control unit, central in plenum chamber
- **T2be**  2-pin connector, on lock carrier
- **T4i**  4-pin connector, on lock carrier
- **T60**  60-pin connector
- **T94**  94-pin connector
- **V7**  Radiator fan
- **V177**  Radiator fan 2

- **671**  Earth point 1, on front of left longitudinal member
- **B364**  Positive connection 15 (87a) in main wiring harness

White (ws) =  white  
Black (sw) =  black  
Red (ro) =  red  
Brown (br) =  brown  
Green (gn) =  green  
Blue (bl) =  blue  
Grey (gr) =  grey  
Purple (lp) =  purple  
Purple (vi) =  purple  
Yellow (ge) =  yellow  
Orange (or) =  orange  
Pink (rs) =  pink

https://www.automotive-manuals.net/
Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve

- J527 Steering column electronics control unit
- J623 Engine control unit, central in plenum chamber
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter solenoid valve 1
- N205 Camshaft control valve 1
- N249 Turbocharger air recirculation valve
- T14a 14-pin connector
- T16o 16-pin connector
- T60 60-pin connector
- T94 94-pin connector

- (B364) Positive connection 15 (87a) in main wiring harness
- (B441) Connection (CCS), in main wiring harness
- (D196) Connection 2 (87a) in engine prewiring harness
- * Only models with adaptive cruise control (ACC)
- *2 Speed signal
- *3 gradual introduction

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gi = yellow
or = orange
rs = pink
Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

- **G39**: Lambda probe
- **G130**: Lambda probe after catalytic converter
- **J623**: Engine control unit, central in plenum chamber
- **T4no**: 4-pin connector
- **T6w**: 6-pin connector
- **T94**: 94-pin connector
- **Z19**: Lambda probe heater
- **Z29**: Lambda probe 1 heater after catalytic converter

**D189**: Connection (87a) in engine prewiring harness

Diagram:

- Lambda probe
- Lambda probe after catalytic converter
- Engine control unit
- Lambda probe heater
- Lambda probe 1 heater after catalytic converter

---

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Continued coolant circulation relay, Onboard supply control unit, Engine control unit, Magnetic clutch for supercharger, Continued coolant circulation pump

- J151: Continued coolant circulation relay
- J519: Onboard supply control unit
- J623: Engine control unit, central in plenum chamber
- N421: Magnetic clutch for supercharger
- T14a: 14-pin connector, on left in engine compartment
- T52c: 52-pin connector
- T94: 94-pin connector
- V51: Continued coolant circulation pump

645: Earth point 1, on bulkhead

B509: Connection 3 (diagnosis), in main wiring harness

B617: Positive connection 5 (87a), in interior wiring harness

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

https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Engine control unit, Fuel pressure regulating valve

- F  Brake light switch
- G476  Clutch position sender
- J519  Onboard supply control unit
- J540  Control unit for electromechanical parking brake
- J623  Engine control unit, central in plenum chamber
- N276  Fuel pressure regulating valve
- T4f  4-pin connector
- T5j  5-pin connector
- T14a  14-pin connector, on left in engine compartment
- T30  30-pin connector
- T52c  52-pin connector
- T60  60-pin connector
- T94  94-pin connector

- 398  Earth connection 33, in main wiring harness
- 639  Earth point, left A-pillar

- B335  Connection 1 (54), 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
- B585  Positive connection 2 (87a), in interior wiring harness
  * Only models with manual gearbox

**Legend:**
ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
l = purple  
v = purple  
ge = yellow  
or = orange  
rs = pink

**Links:**
https://www.automotive-manuals.net/
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

- **G** Fuel gauge sender
- **G6** Fuel system pressurisation pump
- **J519** Onboard supply control unit
- **J533** Data bus diagnostic interface
- **J538** Fuel pump control unit
- **T5a** 5-pin connector
- **T5an** 5-pin connector
- **T10p** 10-pin connector
- **T14h** 14-pin connector
- **T16d** 16-pin connector, on diagnostic connection
- **T20e** 20-pin connector
- **T52b** 52-pin connector

- **295** Earth connection 10, in interior 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

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

Current Flow Diagram No. 16 / 19

[Link to the manual](https://www.automotive-manuals.net/)
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

- G32 Coolant shortage indicator sender
- G169 Fuel gauge sender 2
- J285 Control unit in dash panel insert
- K Dash panel insert
- K2 Alternator warning lamp
- K3 Oil pressure warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K31 Cruise control system warning lamp
- K105 Reserve fuel warning lamp
- T3ai 3-pin connector
- T32c 32-pin connector

295 Earth connection 10, in interior wiring harness

* Only models with all-wheel drive

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

Current Flow Diagram

No. 16 / 21

Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G5 Rev. counter
- G266 Oil level and oil temperature sender
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K Dash panel insert
- K38 Oil level warning lamp
- K132 Electronic power control fault lamp
- T3bu 3-pin connector
- T6e 6-pin connector
- T14a 14-pin connector, on left in engine compartment
- T32c 32-pin connector
- B163 Positive connection 1 (15), in interior wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
1.4l petrol engine, CKMA, CTHD
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- **A** Battery
- **B** Starter
- **J367** Battery monitor control unit
- **J519** Onboard supply control unit
- **J682** Terminal 50 voltage supply relay
- **J710** Voltage supply relay 2
- **T1ac** Single connector
- **T1v** Single connector
- **T2fj** 2-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

12 Earth point, on left in engine compartment

- **B571** Connection 38, in main wiring harness
- **B684** Positive connection 24 (30a) in main wiring harness
- **B699** Connection 4 (LIN bus) in main wiring harness

* Only models with energy recovery

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- **J329** Terminal 15 voltage supply relay
- **SA** Fuse holder A
- **SC1** Fuse 1 on fuse holder C
- **SA4** Fuse 4 in fuse holder A
- **SC** Fuse holder C
- **SC10** Fuse 10 on fuse holder C
- **SC27** Fuse 27 on fuse holder C

507 Threaded connection (30), on battery fuse holder

514 Threaded connection 4 (30a) on relay plate

B290 Positive connection 14 (15a) in main wiring harness

B291 Positive connection 15 (15a) in main wiring harness

B330 Positive connection 16 (30a) in main wiring harness

B571 Connection 38, in main wiring harness

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 17 / 4

Alternator with voltage regulator, Fuse holder A, Fuse holder B
CX1 Alternator with voltage regulator
J519 Onboard supply control unit
SA Fuse holder A
SA1 Fuse 1 in fuse holder A
SA3 Fuse 3 in fuse holder A
SB Fuse holder B
SB5 Fuse 5 on fuse holder B
SB11 Fuse 11 on fuse holder B
SB30 Fuse 30 on fuse holder B
T2gc 2-pin connector
T4a 4-pin connector, near starter
T40 40-pin connector
T52c 52-pin connector

249 Earth connection 2, in interior wiring harness

639 Earth point, left A-pillar

* Only models with energy recovery
*2 Only models with 140A alternator

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

https://www.automotive-manuals.net/
Fuel quality sender, Main relay, Fuse holder B

- G446 Fuel quality sender
- J271 Main relay
- SB Fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB18 Fuse 18 on fuse holder B
- T40 40-pin connector

- 12 Earth point, on left in engine compartment
- 645 Earth point 1, on bulkhead
- 652 Earth point, engine and gearbox earth
- B325 Positive connection 11 (30a) in main wiring harness

Legend:
- \( \text{ws} = \) white
- \( \text{sw} = \) black
- \( \text{ro} = \) red
- \( \text{rt} = \) red
t
- \( \text{br} = \) brown
- \( \text{gn} = \) green
- \( \text{bl} = \) blue
- \( \text{gr} = \) grey
- \( \text{li} = \) purple
- \( \text{vi} = \) purple
- \( \text{ge} = \) yellow
- \( \text{or} = \) orange
- \( \text{rs} = \) pink
Engine control unit, Fuse holder B

- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T14a 14-pin connector
- T40 40-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 131 Earth connection 2, in engine compartment wiring harness
- 645 Earth point 1, on bulkhead
- 673 Earth point 3, on front of left longitudinal member
- D182 Connection 3 (87a), in engine compartment wiring harness

* Only models with dual clutch gearbox (DSG)

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

Current Flow Diagram

Passat

No. 17 / 6

https://www.automotive-manuals.net/
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, Spark plug connector, Spark plugs

- **J623** Engine control unit, central in plenum chamber
- **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
- **T4ba** 4-pin connector
- **T4bb** 4-pin connector
- **T4bc** 4-pin connector
- **T4bd** 4-pin connector
- **T14a** 14-pin connector
- **T60** 60-pin connector
- **T94** 94-pin connector

- **15** Earth point, on cylinder head
- **85** Earth connection 1, in engine compartment wiring harness
- **281** Earth point 1, engine prewiring harness
- **D206** Connection 4 (87a) in engine prewiring harness

---

**Legend**

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

G79  Accelerator position sender
G185  Accelerator position sender 2
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
J623  Engine control unit, central in plenum chamber
T6at  6-pin connector
T6q  6-pin connector
T60  60-pin connector
T94  94-pin connector

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

https://www.automotive-manuals.net/
Engine speed sender, Intake air temperature sender, Intake manifold pressure sender, Intake air temperature sender 2, Intake manifold pressure sender 2, Engine control unit

- G28  Engine speed sender
- G42  Intake air temperature sender
- G71  Intake manifold pressure sender
- G299 Intake air temperature sender 2
- G429 Intake manifold pressure sender 2
- J623 Engine control unit, central in plenum chamber
- T3bq 3-pin connector
- T4nq 4-pin connector
- T4vx 4-pin connector
- T14a 14-pin connector, on left in engine compartment
- T60 60-pin connector
- T94 94-pin connector

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

D101 Connection 1 in engine compartment wiring harness
D102 Connection 2 in engine compartment wiring harness
Passat

Current Flow Diagram

No. 17 / 10

Intake air temperature sender 3, Intake manifold pressure sender 3, Regulating flap potentiometer, Engine control unit, Regulating flap control unit, Regulating flap position control motor

- G520 Intake air temperature sender 3
- G583 Intake manifold pressure sender 3
- G584 Regulating flap potentiometer
- J623 Engine control unit, central in plenum chamber
- J808 Regulating flap control unit
- T4nq 4-pin connector
- T5ao 5-pin connector
- T60 60-pin connector
- V380 Regulating flap position control motor

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

D101 Connection 1 in engine compartment wiring harness

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

Current Flow Diagram No. 17 / 10

https://www.automotive-manuals.net/
Hall sender, Coolant temperature sender, Radiator outlet coolant temperature sender, Fuel pressure sender, Engine control unit

- G40  Hall sender
- G62  Coolant temperature sender
- G83  Radiator outlet coolant temperature sender, black
- G247 Fuel pressure sender
- J623 Engine control unit, central in plenum chamber
- T3bj 3-pin connector
- T3br 3-pin connector
- T60 60-pin connector
- T94 94-pin connector

- 220 Earth connection (sender earth), in engine wiring harness
- D101 Connection 1 in engine compartment wiring harness

---

**Legend:**

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

---

[Diagram Image]
Engine control unit, Injector, cylinder 1, Injector, cylinder 2,
Injector, cylinder 3, Injector, cylinder 4

J623  Engine control unit, central in plenum chamber
N30  Injector, cylinder 1
N31  Injector, cylinder 2
N32  Injector, cylinder 3
N33  Injector, cylinder 4
T60  60-pin connector

J623

Passat

Current Flow Diagram

No.  17 /  12

https://www.automotive-manuals.net/
Knock sensor 1, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

G61  Knock sensor 1
J293  Radiator fan control unit
J623  Engine control unit, central in plenum chamber
T2be  2-pin connector, on lock carrier
T4i   4-pin connector, on lock carrier
T60   60-pin connector
T94   94-pin connector
V7    Radiator fan
V177  Radiator fan 2

671  Earth point 1, on front of left longitudinal member

Passat  Current Flow Diagram

Knock sensor 1, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

G61  Knock sensor 1
J293  Radiator fan control unit
J623  Engine control unit, central in plenum chamber
T2be  2-pin connector, on lock carrier
T4i   4-pin connector, on lock carrier
T60   60-pin connector
T94   94-pin connector
V7    Radiator fan
V177  Radiator fan 2

671  Earth point 1, on front of left longitudinal member

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

https://www.automotive-manuals.net/
Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve

**J527**  Steering column electronics control unit  
**J623**  Engine control unit, central in plenum chamber  
**N75**  Charge pressure control solenoid valve  
**N80**  Activated charcoal filter solenoid valve 1  
**N205**  Camshaft control valve 1  
**N249**  Turbocharger air recirculation valve  
**T14a**  14-pin connector  
**T16o**  16-pin connector  
**T60**  60-pin connector  
**T94**  94-pin connector  
**B441**  Connection (CCS), in main wiring harness  
**D196**  Connection 2 (87a) in engine prewiring harness  
* Only models with adaptive cruise control (ACC)  
*2 Speed signal  
*3 Gradual introduction

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

---

[Passat Current Flow Diagram](https://www.automotive-manuals.net/)
**Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter**

- G39: Lambda probe
- G130: Lambda probe after catalytic converter
- J623: Engine control unit, central in plenum chamber
- T4no: 4-pin connector
- T6w: 6-pin connector
- T94: 94-pin connector
- Z19: Lambda probe heater
- Z29: Lambda probe 1 heater after catalytic converter

- D189: Connection (87a) in engine prewiring harness

### Current Flow Diagram

- **G39**: Lambda probe
- **G130**: Lambda probe after catalytic converter
- **J623**: Engine control unit, central in plenum chamber
- **T4no**: 4-pin connector
- **T6w**: 6-pin connector
- **T94**: 94-pin connector
- **Z19**: Lambda probe heater
- **Z29**: Lambda probe 1 heater after catalytic converter

- **D189**: Connection (87a) in engine prewiring harness

---

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G39</td>
<td>Lambda probe</td>
</tr>
<tr>
<td>G130</td>
<td>Lambda probe after catalytic converter</td>
</tr>
<tr>
<td>J623</td>
<td>Engine control unit, central in plenum chamber</td>
</tr>
<tr>
<td>T4no</td>
<td>4-pin connector</td>
</tr>
<tr>
<td>T6w</td>
<td>6-pin connector</td>
</tr>
<tr>
<td>T94</td>
<td>94-pin connector</td>
</tr>
<tr>
<td>Z19</td>
<td>Lambda probe heater</td>
</tr>
<tr>
<td>Z29</td>
<td>Lambda probe 1 heater after catalytic converter</td>
</tr>
<tr>
<td>D189</td>
<td>Connection (87a) in engine prewiring harness</td>
</tr>
</tbody>
</table>

---

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

---

https://www.automotive-manuals.net/
Continued coolant circulation relay, Onboard supply control unit, Engine control unit, Magnetic clutch for supercharger, Continued coolant circulation pump

- J151  Continued coolant circulation relay
- J519  Onboard supply control unit
- J623  Engine control unit, central in plenum chamber
- N421  Magnetic clutch for supercharger
- T14a  14-pin connector, on left in engine compartment
- T52c  52-pin connector
- T94   94-pin connector
- V51   Continued coolant circulation pump

- 645   Earth point 1, on bulkhead
- B509  Connection 3 (diagnosis), in main wiring harness
- B617  Positive connection 5 (87a), in interior wiring harness

---

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

---

**Picture:**
- Current Flow Diagram
- Passat

---

**Source:**
- No. 17 / 16
- https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Engine control unit, Fuel pressure regulating valve

- F: Brake light switch
- G476: Clutch position sender
- J519: Onboard supply control unit
- J540: Control unit for electromechanical parking brake
- J623: Engine control unit, central in plenum chamber
- N276: Fuel pressure regulating valve
- T4f: 4-pin connector
- T5j: 5-pin connector
- T14a: 14-pin connector, on left in engine compartment
- T30: 30-pin connector
- T52c: 52-pin connector
- T60: 60-pin connector
- T94: 94-pin connector

398: Earth connection 33, in main wiring harness

639: Earth point, left A-pillar

B335: Connection 1 (54), 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

B585: Positive connection 2 (87a), in interior wiring harness

- * Only models with manual gearbox
- *2 Only models with dual clutch gearbox (DSG)
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

G32 Coolant shortage indicator sender
G169 Fuel gauge sender 2
J285 Control unit in dash panel insert
K Dash panel insert
K2 Alternator warning lamp
K3 Oil pressure warning lamp
K28 Coolant temperature and coolant shortage warning lamp
K31 Cruise control system warning lamp
K105 Reserve fuel warning lamp
T3ai 3-pin connector
T32c 32-pin connector

Earth connection 10, in interior wiring harness

* Only models with all-wheel drive
Current Flow Diagram

Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Coolant temperature gauge
- G5 Rev. counter
- G266 Oil level and oil temperature sender
- H3 Buzzer and gong
- J285 Control unit in dash panel insert
- K Dash panel insert
- K38 Oil level warning lamp
- K132 Electronic power control fault lamp
- T3bu 3-pin connector
- T6e 6-pin connector
- T14a 14-pin connector, on left in engine compartment
- T32c 32-pin connector
- B163 Positive connection 1 (15), in interior wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
1.8l petrol engine, CDAA, CDAB
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

A Battery
B Starter
J367 Battery monitor control unit
J519 Onboard supply control unit
J682 Terminal 50 voltage supply relay
J710 Voltage supply relay 2
T1ac Single connector
T1v Single connector
T2f 2-pin connector
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector

12 Earth point, on left in engine compartment

(B571 Connection 38, in main wiring harness
(B684 Positive connection 24 (30a) in main wiring harness
(B699 Connection 4 (LIN bus) in main wiring harness

* Only models with energy recovery

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- J329: Terminal 15 voltage supply relay
- SA: Fuse holder A
- SA4: Fuse 4 in fuse holder A
- SC: Fuse holder C
- SC1: Fuse 1 on fuse holder C
- SC10: Fuse 10 on fuse holder C
- SC27: Fuse 27 on fuse holder C

- 507: Threaded connection (30), on battery fuse holder
- 514: Threaded connection 4 (30a) on relay plate
- B290: Positive connection 14 (15a) in main wiring harness
- B291: Positive connection 15 (15a) in main wiring harness
- B330: Positive connection 16 (30a) in main wiring harness
- B571: Connection 38, in main wiring harness

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

https://www.automotive-manuals.net/
Alternator with voltage regulator, Engine component current supply relay, Fuse holder A, Fuse holder B

CX1 Alternator with voltage regulator
J519 Onboard supply control unit
J757 Engine component current supply relay
SA Fuse holder A
SA1 Fuse 1 in fuse holder A
SA3 Fuse 3 in fuse holder A
SB Fuse holder B
SB17 Fuse 17 on fuse holder B
T2gc 2-pin connector
T4a 4-pin connector, near starter
T40 40-pin connector
T52c 52-pin connector

249 Earth connection 2, in interior wiring harness
639 Earth point, left A-pillar
* Only models with energy recovery
*2 Only models with 140A alternator

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

Main relay, Fuse holder B

J271  Main relay
SB  Fuse holder B
SB5  Fuse 5 on fuse holder B
SB10  Fuse 10 on fuse holder B
SB11  Fuse 11 on fuse holder B
SB13  Fuse 13 on fuse holder B
SB30  Fuse 30 on fuse holder B
T40  40-pin connector

12  Earth point, on left in engine compartment
652  Earth point, engine and gearbox earth
B325  Positive connection 11 (30a) in main wiring harness

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

https://www.automotive-manuals.net/
Engine control unit, Fuse holder B

- J623  Engine control unit, central in plenum chamber
- SB   Fuse holder B
- SB14  Fuse 14 on fuse holder B
- SB16  Fuse 16 on fuse holder B
- SB20  Fuse 20 on fuse holder B
- SB23  Fuse 23 on fuse holder B
- SB24  Fuse 24 on fuse holder B
- T14a  14-pin connector, front left in engine compartment
- T40   40-pin connector
- T94   94-pin connector

- 131   Earth connection 2, in engine compartment wiring harness
- 306   Earth connection (ignition coils), in engine prewiring harness
- 645   Earth point 1, on bulkhead
- 673   Earth point 3, on front of left longitudinal member
- B358  Positive connection 9 (87a) in main wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
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, Spark plug connector, Spark plugs

- J623: Engine control unit, central in plenum chamber
- 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
- T4be: 4-pin connector
- T4bf: 4-pin connector
- T4bg: 4-pin connector
- T4bh: 4-pin connector
- T14a: 14-pin connector, front left in engine compartment
- T60: 60-pin connector
- T94: 94-pin connector
- 15: Earth point, on cylinder head
- 306: Earth connection (ignition coils), in engine prewiring harness
- 458: Earth point 3, engine prewiring harness
- D181: Connection 2 (87a), in engine compartment wiring harness
Accelerator position sender, Accelerator position sender 2,
Throttle valve drive for electric throttle, Throttle valve drive angle
sender 1 for electric throttle, Throttle valve drive angle
sender 2 for electric throttle, Engine control unit

G79  Accelerator position sender
G185  Accelerator position sender 2
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
J623  Engine control unit, central in plenum chamber
T6as  6-pin connector
T6q   6-pin connector
T60   60-pin connector
T94   94-pin connector

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

https://www.automotive-manuals.net/
Engine speed sender, Hall sender, Fuel pressure sender, Engine control unit

- G28 Engine speed sender
- G40 Hall sender
- G247 Fuel pressure sender
- J623 Engine control unit, central in plenum chamber
- T2jp 2-pin connector
- T3bj 3-pin connector
- T3br 3-pin connector
- T6bu 6-pin connector, near cylinder head
- T60 60-pin connector

- D103 Connection 3 in engine compartment wiring harness
- D174 Connection 2 (5V) in engine prewiring harness

Current Flow Diagram

Passat 04.2016

https://www.automotive-manuals.net/
Charge pressure sender, Knock sensor 1, Intake manifold pressure sender, Intake manifold flap potentiometer, Engine control unit

- G31 Charge pressure sender
- G61 Knock sensor 1
- G71 Intake manifold pressure sender
- G336 Intake manifold flap potentiometer
- J623 Engine control unit, central in plenum chamber
- T3be 3-pin connector
- T3bh 3-pin connector
- T4bm 4-pin connector
- T6bu 6-pin connector, near cylinder head
- T14a 14-pin connector, front left in engine compartment
- T60 60-pin connector

- D103 Connection 3 in engine compartment wiring harness
- D107 Connection 5 in engine compartment wiring harness

**Legend:**

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

Current Flow Diagram

Passat

No. 18 / 10

https://www.automotive-manuals.net/
Intake air temperature sender, Coolant temperature sender, Air mass meter, Radiator outlet coolant temperature sender, Engine control unit

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G42</td>
<td>Intake air temperature sender</td>
</tr>
<tr>
<td>G62</td>
<td>Coolant temperature sender</td>
</tr>
<tr>
<td>G70</td>
<td>Air mass meter</td>
</tr>
<tr>
<td>G83</td>
<td>Radiator outlet coolant temperature sender, black</td>
</tr>
<tr>
<td>J623</td>
<td>Engine control unit, central in plenum chamber</td>
</tr>
</tbody>
</table>

- T5f 5-pin connector
- T60 60-pin connector
- T94 94-pin connector

D101 Connection 1 in engine compartment wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

- J623  Engine control unit, central in plenum chamber
- N30  Injector, cylinder 1
- N31  Injector, cylinder 2
- N32  Injector, cylinder 3
- N33  Injector, cylinder 4
- T8y  8-pin connector, near cylinder head
- T60  60-pin connector

Current Flow Diagram

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

https://www.automotive-manuals.net/
Electronic ignition lock, Radiator fan control unit, Engine control unit, Fuel pressure regulating valve, Radiator fan, Radiator fan 2

- D9  Electronic ignition lock
- J203  Radiator fan control unit
- J623  Engine control unit, central in plenum chamber
- J942  Control unit for terminal control and engine start
- N276  Fuel pressure regulating valve
- T2be  2-pin connector, on lock carrier
- T4i  4-pin connector, on lock carrier
- T14a  14-pin connector, front left in engine compartment
- T16f  16-pin connector
- T32g  32-pin connector
- T60  60-pin connector
- T94  94-pin connector
- V7  Radiator fan
- V177  Radiator fan 2

- 671  Earth point 1, on front of left longitudinal member
- B362  Positive connection 13 (87a) in main wiring harness
- B729  Connection 1 (50), in main wiring harness

*  see applicable current flow diagram for entry and start authorisation
*2  Only models with entry and start authorisation

ws = white  sw = black  ro = red  rt = red  br = brown  gn = green  bl = blue  gr = grey  li = purple  vi = purple  ge = yellow  or = orange  rs = pink
Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve, Intake manifold flap valve, Valve for oil pressure control

J623  Engine control unit, central in plenum chamber
N75  Charge pressure control solenoid valve
N80  Activated charcoal filter solenoid valve 1
N205  Camshaft control valve 1
N249  Turbocharger air recirculation valve
N316  Intake manifold flap valve
N428  Valve for oil pressure control
T14a  14-pin connector, front left in engine compartment
T60  60-pin connector
B362  Positive connection 13 (87a) in main wiring harness
D180  Connection (87a), in engine compartment wiring harness

passat 

Current Flow Diagram

No.  18 / 14

https://www.automotive-manuals.net/
Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

G39  Lambda probe
G130  Lambda probe after catalytic converter
J623  Engine control unit, central in plenum chamber
T4no  4-pin connector
T6w  6-pin connector
T94  94-pin connector
Z19  Lambda probe heater
Z29  Lambda probe 1 heater after catalytic converter

D189  Connection (87a) in engine prewiring harness

Passat

Current Flow Diagram

No. 18 / 15

https://www.automotive-manuals.net/
Continued coolant circulation relay, Onboard supply control unit, Engine control unit, Continued coolant circulation pump

- J151 Continued coolant circulation relay
- J519 Onboard supply control unit
- J623 Engine control unit, central in plenum chamber
- T2ck 2-pin connector, near starter
- T52c 52-pin connector
- T94 94-pin connector
- V51 Continued coolant circulation pump

- 645 Earth point 1, on bulkhead
- B509 Connection 3 (diagnosis), in main wiring harness
- D182 Connection 3 (87a), in engine compartment wiring harness

Current Flow Diagram

Passat

Passat Current Flow Diagram

No. 18 / 16

https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Steering column electronics control unit, Engine control unit

- F Brake light switch
- G476 Clutch position sender
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J540 Control unit for electromechanical parking brake
- J623 Engine control unit, central in plenum chamber
- J743 Mechatronic unit for dual clutch gearbox
- T4f 4-pin connector
- T5j 5-pin connector
- T16o 16-pin connector
- T20m 20-pin connector
- T30 30-pin connector
- T52c 52-pin connector
- T60 60-pin connector
- T94 94-pin connector

- 398 Earth connection 33, in main wiring harness
- 639 Earth point, left A-pillar
- B335 Connection 1 (54), 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
- B441 Connection (CCS), in main wiring harness
- B585 Positive connection 2 (87a), in interior wiring harness

* Only models with adaptive cruise control (ACC)
*2 Only models with manual gearbox
*3 Only models with dual clutch gearbox 02E
*4 Speed signal
*5 gradual introduction

Current Flow Diagram

Passat

No. 18 / 17

https://www.automotive-manuals.net/
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

G Fuel gauge sender
G6 Fuel system pressurisation pump
J519 Onboard supply control unit
J533 Data bus diagnostic interface
J538 Fuel pump control unit
T5a 5-pin connector
T10p 10-pin connector
T16d 16-pin connector, on diagnostic connection
T20a 20-pin connector
T52b 52-pin connector

78 Earth point, lower part of right B-pillar
295 Earth connection 10, in interior 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

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

https://www.automotive-manuals.net/
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

- G32 Coolant shortage indicator sender
- G169 Fuel gauge sender 2
- J285 Control unit in dash panel insert
- K Dash panel insert
- K2 Alternator warning lamp
- K3 Oil pressure warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K31 Cruise control system warning lamp
- K105 Reserve fuel warning lamp
- T3ai 3-pin connector
- T32c 32-pin connector
- 295 Earth connection 10, in interior wiring harness
- * Only models with all-wheel drive

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

Alternate URL: https://www.automotive-manuals.net/
Oil pressure switch, Oil pressure switch for reduced oil pressure, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- **F1** Oil pressure switch
- **F378** Oil pressure switch for reduced oil pressure
- **G1** Fuel gauge
- **G3** Coolant temperature gauge
- **G5** Rev. counter
- **G266** Oil level and oil temperature sender
- **H3** Buzzer and gong
- **J285** Control unit in dash panel insert
- **K** Dash panel insert
- **K38** Oil level warning lamp
- **K132** Electronic power control fault lamp
- **T3bu** 3-pin connector
- **T6e** 6-pin connector, front left in engine compartment
- **T14a** 14-pin connector, front left in engine compartment
- **T32c** 32-pin connector
- **B163** Positive connection 1 (15), in interior wiring harness

\[ws = \text{white} \]
\[sw = \text{black} \]
\[ro = \text{red} \]
\[rt = \text{red} \]
\[br = \text{brown} \]
\[gn = \text{green} \]
\[bl = \text{blue} \]
\[gr = \text{grey} \]
\[li = \text{purple} \]
\[vi = \text{purple} \]
\[ge = \text{yellow} \]
\[or = \text{orange} \]
\[rs = \text{pink} \]
2.0l petrol engine, CCZB
From November 2010
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- A Battery
- B Starter
- J367 Battery monitor control unit
- J519 Onboard supply control unit
- J682 Terminal 50 voltage supply relay
- J710 Voltage supply relay 2
- T1v Single connector
- T2fj 2-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

Earth point, on left in engine compartment

Connection 38, in main wiring harness
Positive connection 24 (30a) in main wiring harness
Connection 4 (LIN bus) in main wiring harness

* Only models with energy recovery

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

12 Earth point, on left in engine compartment
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J329</td>
<td>Terminal 15 voltage supply relay</td>
</tr>
<tr>
<td>SA</td>
<td>Fuse holder A</td>
</tr>
<tr>
<td>SA4</td>
<td>Fuse 4 in fuse holder A</td>
</tr>
<tr>
<td>SC</td>
<td>Fuse holder C</td>
</tr>
<tr>
<td>SC1</td>
<td>Fuse 1 on fuse holder C</td>
</tr>
<tr>
<td>SC10</td>
<td>Fuse 10 on fuse holder C</td>
</tr>
<tr>
<td>SC27</td>
<td>Fuse 27 on fuse holder C</td>
</tr>
<tr>
<td>507</td>
<td>Threaded connection (30), on battery fuse holder</td>
</tr>
<tr>
<td>514</td>
<td>Threaded connection 4 (30a) on relay plate</td>
</tr>
<tr>
<td>B290</td>
<td>Positive connection 14 (15a) in main wiring harness</td>
</tr>
<tr>
<td>B291</td>
<td>Positive connection 15 (15a) in main wiring harness</td>
</tr>
<tr>
<td>B330</td>
<td>Positive connection 16 (30a) in main wiring harness</td>
</tr>
<tr>
<td>B571</td>
<td>Connection 38, in main wiring harness</td>
</tr>
</tbody>
</table>

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vl** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Alternator with voltage regulator, Engine component current supply relay, Fuse holder A, Fuse holder B

CX1  Alternator with voltage regulator
J519  Onboard supply control unit
J757  Engine component current supply relay
SA   Fuse holder A
SA1  Fuse 1 in fuse holder A
SA3  Fuse 3 in fuse holder A
SB   Fuse holder B
SB17 Fuse 17 on fuse holder B
T2gc 2-pin connector
T4a  4-pin connector, near starter
T40  40-pin connector
T52c 52-pin connector

249  Earth connection 2, in interior wiring harness

639  Earth point, left A-pillar
*   Only models with energy recovery
*2  Only models with 140 A alternator

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

https://www.automotive-manuals.net/
Main relay, Fuse holder B

- J271: Main relay
- SB: Fuse holder B
- SB5: Fuse 5 on fuse holder B
- SB10: Fuse 10 on fuse holder B
- SB11: Fuse 11 on fuse holder B
- SB13: Fuse 13 on fuse holder B
- SB30: Fuse 30 on fuse holder B
- T40: 40-pin connector

12: Earth point, on left in engine compartment
652: Earth point, engine and gearbox earth
B325: Positive connection 11 (30a) in main wiring harness

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

Passat
Current Flow Diagram
No. 19 / 5

https://www.automotive-manuals.net/
Engine control unit, Fuse holder B

- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T14a 14-pin connector
- T40 40-pin connector
- T94 94-pin connector

- 131 Earth connection 2, in engine compartment wiring harness
- 306 Earth connection (ignition coils), in engine prewiring harness
- 645 Earth point 1, on bulkhead
- 673 Earth point 3, on front of left longitudinal member
- B358 Positive connection 9 (87a) in main wiring harness

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

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, Spark plug connector, Spark plugs

- J623  Engine control unit, central in plenum chamber
- 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
- T4be  4-pin connector
- T4bf  4-pin connector
- T4bg  4-pin connector
- T4bh  4-pin connector
- T14a  14-pin connector
- T60   60-pin connector
- T94   94-pin connector

- 15    Earth point, on cylinder head
- 306   Earth connection (ignition coils), in engine prewiring harness
- 458   Earth point 3, engine prewiring harness
- D181  Connection 2 (87a) in engine compartment wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vl = purple
- ge = yellow
- or = orange
- rs = pink
Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

- G79  Accelerator position sender
- G185  Accelerator position sender 2
- 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
- J623  Engine control unit, central in plenum chamber
- T6as  6-pin connector
- T6q  6-pin connector
- T60  60-pin connector
- T94  94-pin connector

---

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

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Source: https://www.automotive-manuals.net/
Engine speed sender, Hall sender, Fuel pressure sender, Engine control unit

- **G28** Engine speed sender
- **G40** Hall sender
- **G247** Fuel pressure sender
- **J623** Engine control unit, central in plenum chamber
- **T2jp** 2-pin connector
- **T3bj** 3-pin connector
- **T3br** 3-pin connector
- **T6bu** 6-pin connector, near cylinder head
- **T60** 60-pin connector
- **D103** Connection 3 in engine compartment wiring harness
- **D174** Connection 2 (5V) in engine prewiring harness

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

Current Flow Diagram No. 19 / 9

https://www.automotive-manuals.net/
Charge pressure sender, Knock sensor 1, Intake manifold pressure sender, Intake manifold flap potentiometer, Engine control unit

- G31 Charge pressure sender
- G61 Knock sensor 1
- G71 Intake manifold pressure sender
- G336 Intake manifold flap potentiometer
- J623 Engine control unit, central in plenum chamber
- T3be 3-pin connector
- T3bh 3-pin connector
- T4bm 4-pin connector
- T6bu 6-pin connector, near cylinder head
- T14a 14-pin connector, on left in engine compartment
- T60 60-pin connector

(D103) Connection 3 in engine compartment wiring harness
(D107) Connection 5 in engine compartment wiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gn = green
vi = purple
gy = yellow
or = orange
rs = pink
Passat

Current Flow Diagram

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, black
J623 Engine control unit, central in plenum chamber
T5f 5-pin connector
T60 60-pin connector
T94 94-pin connector
D101 Connection 1 in engine compartment wiring harness

J623

G42

G62

G70

G83

G62

G42

D101

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

https://www.automotive-manuals.net/
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

- J623  Engine control unit, central in plenum chamber
- N30  Injector, cylinder 1
- N31  Injector, cylinder 2
- N32  Injector, cylinder 3
- N33  Injector, cylinder 4
- T8y  8-pin connector, near cylinder head
- T60  60-pin connector

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

Current Flow Diagram
Electronic ignition lock, Radiator fan control unit, Engine control unit, Fuel pressure regulating valve, Radiator fan, Radiator fan 2

- D9  Electronic ignition lock
- J293  Radiator fan control unit
- J623  Engine control unit, central in plenum chamber
- J942  Control unit for terminal control and engine start
- N276  Fuel pressure regulating valve
- T2be  2-pin connector, on lock carrier
- T4i  4-pin connector, on lock carrier
- T14a  14-pin connector, on left in engine compartment
- T16f  16-pin connector
- T32g  32-pin connector
- T60  60-pin connector
- T94  94-pin connector
- V7  Radiator fan
- V177  Radiator fan 2

- 671  Earth point 1, on front of left longitudinal member
- B362  Positive connection 13 (87a) in main wiring harness
- B729  Connection 1 (50), in main wiring harness
  * see applicable current flow diagram for entry and start authorisation
  *2 Only models with entry and start authorisation

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

https://www.automotive-manuals.net/
Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve, Intake manifold flap valve, Valve for oil pressure control

- **J623**: Engine control unit, central in plenum chamber
- **N75**: Charge pressure control solenoid valve
- **N80**: Activated charcoal filter solenoid valve 1
- **N205**: Camshaft control valve 1
- **N249**: Turbocharger air recirculation valve
- **N316**: Intake manifold flap valve
- **N428**: Valve for oil pressure control
- **T14a**: 14-pin connector
- **T60**: 60-pin connector
- **B362**: Positive connection 13 (87a) in main wiring harness
- **D180**: Connection (87a), in engine compartment wiring harness

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

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**Current Flow Diagram**

No. 19 / 14

Passat

[Diagram showing connections and labels]

https://www.automotive-manuals.net/
Current Flow Diagram

Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

- G39 Lambda probe
- G130 Lambda probe after catalytic converter
- J623 Engine control unit, central in plenum chamber
- T4no 4-pin connector
- T6w 6-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater
- Z29 Lambda probe 1 heater after catalytic converter

- D189 Connection (87a) in engine prewiring harness
Continued coolant circulation relay, Onboard supply control unit, Engine control unit, Continued coolant circulation pump

- **J151**: Continued coolant circulation relay
- **J519**: Onboard supply control unit
- **J623**: Engine control unit, central in plenum chamber
- **T2ck**: 2-pin connector
- **T52c**: 52-pin connector
- **T94**: 94-pin connector
- **V51**: Continued coolant circulation pump

- **645**: Earth point 1, on bulkhead
- **B509**: Connection 3 (diagnosis), in main wiring harness
- **D182**: Connection 3 (87a) in engine compartment wiring harness

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**Current Flow Diagram**

Passat

No. 19 / 16

https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Steering column electronics control unit, Engine control unit

- **F** Brake light switch
- **G476** Clutch position sender
- **J519** Onboard supply control unit
- **J527** Steering column electronics control unit
- **J540** Control unit for electromechanical parking brake
- **J623** Engine control unit, central in plenum chamber
- **J743** Mechatronic unit for dual clutch gearbox
- **T4f** 4-pin connector
- **T5j** 5-pin connector
- **T16o** 16-pin connector
- **T20m** 20-pin connector
- **T30** 30-pin connector
- **T52c** 52-pin connector
- **T60** 60-pin connector
- **T94** 94-pin connector

- 398 Earth connection 33, in main wiring harness
- 639 Earth point, left A-pillar
- **B335** Connection 1 (54), 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
- **B441** Connection (CCS), in main wiring harness
- **B585** Positive connection 2 (87a), in interior wiring harness

- * Only models with adaptive cruise control (ACC)
- *2 Only models with manual gearbox
- *3 Only models with dual clutch gearbox 02E
- *4 Speed signal
- *5 Gradual introduction

Color codes:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

G  Fuel gauge sender
G6  Fuel system pressurisation pump
J519  Onboard supply control unit
J533  Data bus diagnostic interface
J538  Fuel pump control unit
T5a  5-pin connector
T10p  10-pin connector
T16d  16-pin connector, on diagnostic connection
T20e  20-pin connector
T52b  52-pin connector

78  Earth point, lower part of right B-pillar
295  Earth connection 10, in interior 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

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

https://www.automotive-manuals.net/
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

G32 Coolant shortage indicator sender
G169 Fuel gauge sender 2
J285 Control unit in dash panel insert
K Dash panel insert
K2 Alternator warning lamp
K3 Oil pressure warning lamp
K28 Coolant temperature and coolant shortage warning lamp
K31 Cruise control system warning lamp
K105 Reserve fuel warning lamp
T3ai 3-pin connector
T32c 32-pin connector

295 Earth connection 10, in interior wiring harness
* Only models with all-wheel drive

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

https://www.automotive-manuals.net/
Oil pressure switch, Oil pressure switch for reduced oil pressure, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- **F1** Oil pressure switch
- **F378** Oil pressure switch for reduced oil pressure
- **G1** Fuel gauge
- **G3** Coolant temperature gauge
- **G5** Rev. counter
- **G266** Oil level and oil temperature sender
- **H3** Buzzer and gong
- **J285** Control unit in dash panel insert
- **K** Dash panel insert
- **K38** Oil level warning lamp
- **K132** Electronic power control fault lamp
- **T3bu** 3-pin connector
- **T6e** 6-pin connector
- **T14a** 14-pin connector, on left in engine compartment
- **T32c** 32-pin connector
- **B163** Positive connection 1 (15), in interior wiring harness
3.6l petrol engine, BWS
From November 2010
Battery, Starter, Airbag control unit, Battery monitor control unit, Onboard supply control unit, Fuse 1 in fuse holder F, Fuse 2 in fuse holder F, Fuse 3 in fuse holder F, Fuse 4 in fuse holder F, Terminal 30 wiring junction

A  Battery
B  Starter
C24  Suppression filter
J234  Airbag control unit
J367  Battery monitor control unit
J519  Onboard supply control unit
N253  Battery isolation igniter
SF1  Fuse 1 in fuse holder F
SF2  Fuse 2 in fuse holder F
SF3  Fuse 3 in fuse holder F
SF4  Fuse 4 in fuse holder F
T1v  Single connector
T2dp  2-pin connector
T2fj  2-pin connector
T2fp  2-pin connector
T52a  52-pin connector
T100a  100-pin connector
TV2  Terminal 30 wiring junction

12  Earth point, on left in engine compartment
676  Earth point 2, on left in luggage compartment
B684  Positive connection 24 (30a) in main wiring harness
P2  Positive connection (30), in battery wiring harness
*  Only models with energy recovery

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- J329  Terminal 15 voltage supply relay
- J519  Onboard supply control unit
- J692  Terminal 50 voltage supply relay
- J710  Voltage supply relay 2
- T52b  52-pin connector
- T52c  52-pin connector

- 12  Earth point, on left in engine compartment
- 249  Earth connection 2, in interior wiring harness
- 639  Earth point, left A-pillar
- 652  Earth point, engine and gearbox earth
- B571  Connection 38, in main wiring harness

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

https://www.automotive-manuals.net/
Fuse holder C

- SC Fuse holder C
- SC1 Fuse 1 on fuse holder C
- SC3 Fuse 3 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- T14a 14-pin connector, on left in engine compartment

- B290 Positive connection 14 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B330 Positive connection 16 (30a) in main wiring harness
- B571 Connection 38, in main wiring harness

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

Passat

Current Flow Diagram

No. 20 / 4
Alternator with voltage regulator, Main relay, Fuse holder A, Fuse holder B

- CX1: Alternator with voltage regulator
- J271: Main relay
- J533: Data bus diagnostic interface
- SA: Fuse holder A
- SA1: Fuse 1 in fuse holder A
- SA3: Fuse 3 in fuse holder A
- SB: Fuse holder B
- SB17: Fuse 17 on fuse holder B
- SB26: Fuse 26 on fuse holder B
- SB49: Fuse 49 on fuse holder B
- T2gd: 2-pin connector
- T4a: 4-pin connector, near starter
- T20e: 20-pin connector
- T26a: 26-pin connector
- T40: 40-pin connector

- 502: Threaded connection 1 (30a) on relay plate
- 508: Threaded connection (30) on E-box
- 509: Threaded connection 1 (29), on E-box
- 511: Threaded connection 2 (30), on E-box
- B325: Positive connection 11 (30a) in main wiring harness
- B699: Connection 4 (LIN bus) in main wiring harness

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

https://www.automotive-manuals.net/
Fuse holder B

- SB6 Fuse 6 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- SB8 Fuse 8 on fuse holder B
- SB9 Fuse 9 on fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB11 Fuse 11 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- T14a 14-pin connector, on left in engine compartment
- T26a 26-pin connector
- TV23 Push-in bridge
- T40 40-pin connector
- B362 Positive connection 13 (87a) in main wiring harness

Note:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Continued coolant circulation relay, Engine control unit, Fuse holder B, Continued coolant circulation pump

J151  Continued coolant circulation relay
J623  Engine control unit
SB    Fuse holder B
SB15  Fuse 15 on fuse holder B
T14a  14-pin connector
T26a  26-pin connector
T40   40-pin connector
T94   94-pin connector
V51   Continued coolant circulation pump

390   Earth connection 25, in main wiring harness
645   Earth point 1, on bulkhead
B354  Positive connection 5 (87a) in main wiring harness
B362  Positive connection 13 (87a) in main wiring harness

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

Passat

Current Flow Diagram
No. 20 / 7

https://www.automotive-manuals.net/
Engine control unit, Ignition coil 1 with output stage, Ignition coil 2 with output stage, Ignition coil 3 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
- N291 Ignition coil 3 with output stage
- P Spark plug connector
- Q Spark plugs
- T4cm 4-pin connector
- T4cn 4-pin connector
- T4co 4-pin connector
- T60 60-pin connector

- 15 Earth point, on cylinder head
- 281 Earth point 1, engine prewiring harness
- 458 Earth point 3, engine prewiring harness
- (D180) Connection (87a), in engine compartment wiring harness
- (D189) Connection (87a) in engine prewiring harness

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

J623  Engine control unit
N30  Injector, cylinder 1
N31  Injector, cylinder 2
N32  Injector, cylinder 3
N33  Injector, cylinder 4
N83  Injector, cylinder 5
N84  Injector, cylinder 6
T60  60-pin connector

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

https://www.automotive-manuals.net/
Radiator outlet coolant temperature sender, Engine control unit, Heater element for crankcase breather, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Exhaust camshaft control valve 1

G83  Radiator outlet coolant temperature sender
J623  Engine control unit
N79  Heater element for crankcase breather
N80  Activated charcoal filter solenoid valve 1
N205  Camshaft control valve 1
N318  Exhaust camshaft control valve 1
T14a  14-pin connector, on left in engine compartment
T60  60-pin connector
T94  94-pin connector
D181  Connection 2 (87a) in engine compartment wiring harness

ws  =  white
sw  =  black
ro  =  red
rt  =  red
br  =  brown
gn  =  green
bl  =  blue
gr  =  grey
li  =  purple
vi  =  purple
gi  =  yellow
gs  =  orange
rs  =  pink
Hall sender, Coolant temperature sender, Hall sender 2, Fuel pressure sender, Fuel pressure sender for low-pressure, Engine control unit

- **G40**: Hall sender
- **G62**: Coolant temperature sender
- **G163**: Hall sender 2
- **G247**: Fuel pressure sender
- **G410**: Fuel pressure sender for low-pressure
- **J623**: Engine control unit
- **T3ck**: 3-pin connector
- **T3cl**: 3-pin connector
- **T3cm**: 3-pin connector
- **T3cn**: 3-pin connector
- **T14a**: 14-pin connector, on left in engine compartment
- **T60**: 60-pin connector
- **T94**: 94-pin connector

* Up to November 2012
*2 From November 2012

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

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**Passat**

**Current Flow Diagram**

No. 20 / 12

[Diagram Image]

[Link to full manual] https://www.automotive-manuals.net/
Engine speed sender, Knock sensor 1, Knock sensor 2, Engine control unit

- G28  Engine speed sender
- G61  Knock sensor 1
- G66  Knock sensor 2
- J623  Engine control unit
- T2hx  2-pin connector
- T3bp  3-pin connector
- T3cf  3-pin connector
- T60  60-pin connector

D102  Connection 2 in engine compartment wiring harness
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G39</td>
<td>Lambda probe</td>
</tr>
<tr>
<td>G108</td>
<td>Lambda probe 2</td>
</tr>
<tr>
<td>J623</td>
<td>Engine control unit</td>
</tr>
<tr>
<td>T6w</td>
<td>6-pin connector</td>
</tr>
<tr>
<td>T6z</td>
<td>6-pin connector, brown</td>
</tr>
<tr>
<td>T94</td>
<td>94-pin connector</td>
</tr>
<tr>
<td>Z19</td>
<td>Lambda probe heater</td>
</tr>
<tr>
<td>Z28</td>
<td>Lambda probe heater 2</td>
</tr>
<tr>
<td>B357</td>
<td>Positive connection 8 (87a) in main wiring harness</td>
</tr>
</tbody>
</table>

**Current Flow Diagram**

Lambda probe, Lambda probe 2, Engine control unit, Lambda probe heater, Lambda probe heater 2

- **G39**: Lambda probe
- **G108**: Lambda probe 2
- **J623**: Engine control unit
- **T6w**: 6-pin connector
- **T6z**: 6-pin connector, brown
- **T94**: 94-pin connector
- **Z19**: Lambda probe heater
- **Z28**: Lambda probe heater 2

**Legend**

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

**Notes**

- **B357**: Positive connection 8 (87a) in main wiring harness

**Passat Current Flow Diagram No. 20 / 14**
Lambda probe after catalytic converter, Lambda probe 2 after catalytic converter, Engine control unit, Lambda probe 1 heater after catalytic converter, Lambda probe 2 heater after catalytic converter

G130  Lambda probe after catalytic converter
G131  Lambda probe 2 after catalytic converter
J623  Engine control unit
T4r   4-pin connector, near Lambda probe
T4u   4-pin connector, near Lambda probe
T94   94-pin connector
Z29   Lambda probe 1 heater after catalytic converter
Z30   Lambda probe 2 heater after catalytic converter
B355  Positive connection 6 (87a) in main wiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
dl = purple
vl = purple
g = yellow
or = orange
rs = pink

Current Flow Diagram
No. 20 / 15

Passat

https://www.automotive-manuals.net/
Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

G79 Accelerator position sender
G185 Accelerator position sender 2
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
J623 Engine control unit
T6bs 6-pin connector
T6q 6-pin connector
T60 60-pin connector
T94 94-pin connector

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

https://www.automotive-manuals.net/
Electronic ignition lock, Intake air temperature sender, Air mass meter, Steering column electronics control unit, Engine control unit, Fuel pressure regulating valve

- **D9**: Electronic ignition lock
- **G42**: Intake air temperature sender
- **G70**: Air mass meter
- **J527**: Steering column electronics control unit
- **J623**: Engine control unit
- **N276**: Fuel pressure regulating valve
- **T5g**: 5-pin connector
- **T14a**: 14-pin connector, on left in engine compartment
- **T16f**: 16-pin connector
- **T16o**: 16-pin connector
- **T60**: 60-pin connector
- **T94**: 94-pin connector

* Only models with adaptive cruise control (ACC)
*2 Speed signal
*3 Gradual introduction
Brake light switch, Radiator fan control unit, Engine control unit, Mechatronic unit for dual clutch gearbox, Radiator fan

- **F** Brake light switch
- **J293** Radiator fan control unit
- **J519** Onboard supply control unit
- **J623** Engine control unit
- **J743** Mechatronic unit for dual clutch gearbox
- **T2be** 2-pin connector, on lock carrier
- **T4f** 4-pin connector
- **T4i** 4-pin connector, on lock carrier
- **T20m** 20-pin connector
- **T52c** 52-pin connector
- **T94** 94-pin connector
- **V7** Radiator fan
- **V177** Radiator fan 2

- **398** Earth connection 33, in main wiring harness
- **639** Earth point, left A-pillar
- **671** Earth point 1, on front of left longitudinal member
- **B335** Connection 1 (54), 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
- **B509** Connection 3 (diagnosis), in main wiring harness

---

**Legend**

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

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Visit: [https://www.automotive-manuals.net/]

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Passat Current Flow Diagram
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

- **G** Fuel gauge sender
- **G6** Fuel system pressurisation pump
- **J519** Onboard supply control unit
- **J533** Data bus diagnostic interface
- **J538** Fuel pump control unit
- **T5u** 5-pin connector
- **T10p** 10-pin connector
- **T16d** 16-pin connector, on diagnostic connection
- **T20e** 20-pin connector
- **T52b** 52-pin connector

- **78** Earth point, lower part of right B-pillar
- **295** Earth connection 10, in interior 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

---

Passat

Current Flow Diagram

No. 20 / 19

Current Flow Diagram

09.2014
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

- G32 Coolant shortage indicator sender
- G169 Fuel gauge sender 2
- J285 Control unit in dash panel insert
- K Dash panel insert
- K2 Alternator warning lamp
- K3 Oil pressure warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K31 Cruise control system warning lamp
- K105 Reserve fuel warning lamp
- T3ai 3-pin connector
- T32c 32-pin connector

295 Earth connection 10, in interior wiring harness

* Only models with all-wheel drive

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- **F1** Oil pressure switch
- **G1** Fuel gauge
- **G3** Coolant temperature gauge
- **G5** Rev. counter
- **G266** Oil level and oil temperature sender
- **H3** Buzzer and gong
- **J285** Control unit in dash panel insert
- **K** Dash panel insert
- **K38** Oil level warning lamp
- **K132** Electronic power control fault lamp
- **T3bu** 3-pin connector
- **T6e** 6-pin connector
- **T14f** 14-pin connector, on left in engine compartment
- **T32c** 32-pin connector
- **B163** Positive connection 1 (15), in interior wiring harness

---

diagram with labels:

- G1
- G5
- G3
- H3
- K
- J
- K
- T14f
- T3bu
- T6e
- B163

---

Legend:

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

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https://www.automotive-manuals.net/
Multimedia socket MEDIA-IN
From November 2010
Control unit with display for radio and navigation, Data bus diagnostic interface, Multimedia system control unit, Connection for external audio sources

- J503 Control unit with display for radio and navigation
- J533 Data bus diagnostic interface
- J650 Multimedia system control unit
- R Radio
- R199 Connection for external audio sources

- T4uw 4-pin connector
- T12j 12-pin connector, blue
- T12y 12-pin connector, black
- T20a 26-pin connector

- 370 Earth connection 5, 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

* Only models with centre armrest

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = yellow
- or = orange
- rs = pink
Radio system
From November 2010
Data bus diagnostic interface, Radio

- **J532** Voltage stabiliser
- **J533** Data bus diagnostic interface
- **R** Radio
- **SB7** Fuse 7 on fuse holder B
- **SB19** Fuse 19 on fuse holder B
- **SC48** Fuse 48 on fuse holder C
- **T12ad** 12-pin connector
- **T16c** 16-pin connector, black
- **T20e** 20-pin connector
- **T40** 40-pin connector

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

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

**B598**
- Positive connection 11 (30a), in interior wiring harness

* Fuses in E-box, Low
*2 Fuses in E-box, High
*3 Only models with start/stop system

---

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

https://www.automotive-manuals.net/
Radio, CD changer

- J519 Onboard supply control unit
- R Radio
- R41 CD changer
- T12f 12-pin connector, black
- T12j 12-pin connector, blue
- T16c 16-pin connector, black
- T52b 52-pin connector

- 370 Earth connection 5, in main wiring harness
- 610 Earth point (audio), front below centre console
- B340 Connection 1 (58d), in main wiring harness

* Only models with CD changer/ prepared for CD changer

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

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https://www.automotive-manuals.net/
Mobile telephone operating electronics control unit, Radio, Connection for external audio sources, Voice command microphone

- **J412**: Mobile telephone operating electronics control unit
- **J650**: Multimedia system control unit
- **R**: Radio
- **R199**: Connection for external audio sources
- **R206**: Voice command microphone
- **T2k**: 2-pin connector
- **T4ux**: 4-pin connector
- **T12j**: 12-pin connector, blue
- **T12l**: 12-pin connector, green
- **T12y**: 12-pin connector
- **T54**: 54-pin connector

370. Earth connection 5, in main wiring harness

- * Only models with multimedia socket for external audio source
- *2 see applicable current flow diagram for telephone systems
- *3 Only models with voice control
- *4 see applicable current flow diagram for multimedia system

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<table>
<thead>
<tr>
<th>Key</th>
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<td>li</td>
<td>purple</td>
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<td>vl</td>
<td>purple</td>
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<tr>
<td>or</td>
<td>orange</td>
</tr>
<tr>
<td>rs</td>
<td>pink</td>
</tr>
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Radio, Rear left treble loudspeaker, Rear left bass loudspeaker, Rear right treble loudspeaker, Rear right bass loudspeaker, Front left bass loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker

R Radio
R14 Rear left treble loudspeaker
R15 Rear left bass loudspeaker
R16 Rear right treble loudspeaker
R17 Rear right bass loudspeaker
R20 Front left treble loudspeaker
R21 Front left bass loudspeaker
R22 Front right treble loudspeaker
R23 Front right bass loudspeaker

T6ud 6-pin connector, in rear right door
T6ue 6-pin connector, in rear left door
T16c 16-pin connector
T28 28-pin connector, in right A-pillar coupling station
T28a 28-pin connector, on left B-pillar
T28b 28-pin connector, on right B-pillar
T28c 28-pin connector, in left A-pillar coupling station
* Only models with no sound system
*2 see applicable current flow diagram for sound system

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

https://www.automotive-manuals.net/
Heated rear window relay, Radio, Radio aerial 2, Frequency modulation (FM) frequency filter in positive wire

- J9 Heated rear window relay
- R Radio
- R11 Aerial
- R24 Aerial amplifier
- R93 Radio aerial 2
- R178 Frequency modulation (FM) frequency filter in negative wire
- R179 Frequency modulation (FM) frequency filter in positive wire
- R183 Digital radio aerial
- Z1 Heated rear window

- 659 Earth point 1, on right near rear window
- B569 Connection 36, in main wiring harness

* Saloon
*2 Only models with digital radio
*3 Estate

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

https://www.automotive-manuals.net/
Aerial, Aerial amplifier, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

- R11 Aerial
- R24 Aerial amplifier
- R93 Radio aerial 2
- R111 Aerial amplifier 2
- R112 Aerial amplifier 3
- R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio

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

https://www.automotive-manuals.net/
Radio navigation system
From November 2010
Control unit with display for radio and navigation, Data bus diagnostic interface

- J503  Control unit with display for radio and navigation
- J532  Voltage stabiliser
- J533  Data bus diagnostic interface
- SB7   Fuse 7 on fuse holder B
- SB19  Fuse 19 on fuse holder B
- SC48  Fuse 48 on fuse holder C
- T12ad 12-pin connector
- T16c  16-pin connector, black
- T20e  20-pin connector
- T40   40-pin connector
- B151  Positive connection 3 (30a), in interior wiring harness
- B415  Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421  Connection 1 (infotainment CAN bus, low), in main wiring harness
- B598  Positive connection 11 (30a), in interior wiring harness
- *    Fuses in E-box, Low
- *2   Fuses in E-box, High
- *3  Only models with start/stop system

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

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, CD changer

- J503: Control unit with display for radio and navigation
- J519: Onboard supply control unit
- R41: CD changer
- T12f: 12-pin connector, black
- T12j: 12-pin connector, blue
- T16c: 16-pin connector, black
- T52b: 52-pin connector

- 370: Earth connection 5, in main wiring harness
- 610: Earth point (audio), front below centre console
- B340: Connection 1 (58d), in main wiring harness
- B341: Connection 2 (58d), in main wiring harness

* Only models with CD changer/ prepared for CD changer

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

Current Flow Diagram

No. 23 / 3

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, Voice command microphone

- J503: Control unit with display for radio and navigation
- J650: Multimedia system control unit
- R199: Connection for external audio sources
- R206: Voice command microphone

Connectors:
- T2k: 2-pin connector
- T4uw: 4-pin connector
- T12j: 12-pin connector, blue
- T12l: 12-pin connector, green
- T12y: 12-pin connector

Other connections:
- J503, J650, R199, and R206 are associated with various connectors.
- Earth connection 370, in main wiring harness (5)

Legend:
- *3: Only models with multimedia socket for external audio source
- *2: Only models with voice control
- *3: See applicable current flow diagram for multimedia system
Control unit with display for radio and navigation, Rear left treble loudspeaker, Rear left bass loudspeaker, Rear right treble loudspeaker, Rear right bass loudspeaker, Front left bass loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker

J503 Control unit with display for radio and navigation
R14 Rear left treble loudspeaker
R15 Rear left bass loudspeaker
R16 Rear right treble loudspeaker
R17 Rear right bass loudspeaker
R20 Front left treble loudspeaker
R21 Front left bass loudspeaker
R22 Front right treble loudspeaker
R23 Front right bass loudspeaker

T6ud 6-pin connector, in rear right door
T6ue 6-pin connector, in rear left door
T16c 16-pin connector
T28 28-pin connector, in right A-pillar coupling station
T28a 28-pin connector, on left B-pillar
T28b 28-pin connector, on right B-pillar
T28c 28-pin connector, in left A-pillar coupling station

* Only models with no sound system
*2 see applicable current flow diagram for sound system

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

https://www.automotive-manuals.net/
Mobile telephone operating electronics control unit, Control unit with display for radio and navigation, Telephone bracket

- J412 Mobile telephone operating electronics control unit
- J503 Control unit with display for radio and navigation
- R126 Telephone bracket
- T10ak 10-pin connector, behind dash panel, centre
- T12l 12-pin connector, green
- T26g 26-pin connector, black
- T54c 54-pin connector

* Only models with radio navigation system RNS 315
*2 see applicable current flow diagram for telephone systems

Earth connection 32, in main wiring harness

Earth point 1, on centre tunnel

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, TV tuner

J503  Control unit with display for radio and navigation
R78   TV tuner
R204  TV card reader
SB12  Fuse 12 on fuse holder B
SB20  Fuse 20 on fuse holder B
T5ab  5-pin connector
T5ac  5-pin connector
T40   40-pin connector
T54c  54-pin connector

(B150) Positive connection 2 (30a), in interior wiring harness

* Only models with TV tuner
*2 Fuses in E-box, Low
*3 Fuses in E-box, High

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Passat

Current Flow Diagram

No. 23 / 7

Control unit with display for radio and navigation, TV tuner

J503  Control unit with display for radio and navigation
R78   TV tuner
R204  TV card reader
SB12  Fuse 12 on fuse holder B
SB20  Fuse 20 on fuse holder B
T5ab  5-pin connector
T5ac  5-pin connector
T40   40-pin connector
T54c  54-pin connector

(B150) Positive connection 2 (30a), in interior wiring harness

* Only models with TV tuner
*2 Fuses in E-box, Low
*3 Fuses in E-box, High

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

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, TV tuner

- **J503**: Control unit with display for radio and navigation
- **R78**: TV tuner
- **T26g**: 26-pin connector, black
- **T54c**: 54-pin connector

265 Earth connection (internal screening), in navigation wiring harness

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Heated rear window relay, Control unit with display for radio and navigation, Radio aerial 2, Frequency modulation (FM) frequency filter in positive wire, Digital radio aerial

- **J9** Heated rear window relay
- **J503** Control unit with display for radio and navigation
- **R11** Aerial
- **R24** Aerial amplifier
- **R55** TV aerial 1
- **R56** TV aerial 2
- **R93** Radio aerial 2
- **R178** Frequency modulation (FM) frequency filter in negative wire
- **R179** Frequency modulation (FM) frequency filter in positive wire
- **R183** Digital radio aerial
- **ZX1** Rear window aerial
- **Z1** Heated rear window

- **659** Earth point 1, on right rear window

- **B569** Connection 36, in main wiring harness

- **Saloon**
- ***2** Only models with TV tuner
- ***3** Only models with digital radio

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**Passat**

Current Flow Diagram

No. 23 / 9

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, Aerial, Aerial amplifier, TV aerial 1, TV aerial 2, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

- J503 Control unit with display for radio and navigation
- R11 Aerial
- R24 Aerial amplifier
- R55 TV aerial 1
- R56 TV aerial 2
- R93 Radio aerial 2
- R111 Aerial amplifier 2
- R112 Aerial amplifier 3
- R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio

Control unit with display for radio and navigation, Aerial, Aerial amplifier, TV aerial 1, TV aerial 2, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

J503 Control unit with display for radio and navigation
R11 Aerial
R24 Aerial amplifier
R55 TV aerial 1
R56 TV aerial 2
R93 Radio aerial 2
R111 Aerial amplifier 2
R112 Aerial amplifier 3
R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio

Control unit with display for radio and navigation, Aerial, Aerial amplifier, TV aerial 1, TV aerial 2, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

J503 Control unit with display for radio and navigation
R11 Aerial
R24 Aerial amplifier
R55 TV aerial 1
R56 TV aerial 2
R93 Radio aerial 2
R111 Aerial amplifier 2
R112 Aerial amplifier 3
R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio

Control unit with display for radio and navigation, Aerial, Aerial amplifier, TV aerial 1, TV aerial 2, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

J503 Control unit with display for radio and navigation
R11 Aerial
R24 Aerial amplifier
R55 TV aerial 1
R56 TV aerial 2
R93 Radio aerial 2
R111 Aerial amplifier 2
R112 Aerial amplifier 3
R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio

Control unit with display for radio and navigation, Aerial, Aerial amplifier, TV aerial 1, TV aerial 2, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

J503 Control unit with display for radio and navigation
R11 Aerial
R24 Aerial amplifier
R55 TV aerial 1
R56 TV aerial 2
R93 Radio aerial 2
R111 Aerial amplifier 2
R112 Aerial amplifier 3
R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio

Control unit with display for radio and navigation, Aerial, Aerial amplifier, TV aerial 1, TV aerial 2, Radio aerial 2, Aerial amplifier 2, Aerial amplifier 3, Digital radio aerial

J503 Control unit with display for radio and navigation
R11 Aerial
R24 Aerial amplifier
R55 TV aerial 1
R56 TV aerial 2
R93 Radio aerial 2
R111 Aerial amplifier 2
R112 Aerial amplifier 3
R183 Digital radio aerial

* Estate
*2 Left side window aerial
*3 Right side window aerial
*4 Only models with digital radio
Control unit with display for radio and navigation, GPS aerial

- J503 Control unit with display for radio and navigation
- RX5 Roof aerial
- R50 GPS aerial
- R65 Telephone aerial

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Reversing camera (Rear Assist)
From November 2010
Reversing camera system control unit, TV tuner

- **J772**: Reversing camera system control unit
- **R78**: TV tuner
- **SB12**: Fuse 12 on fuse holder B
- **SB20**: Fuse 20 on fuse holder B
- **T40**: 40-pin connector
- **T54b**: 54-pin connector
- **T54c**: 54-pin connector

**Earthing Points**
- **370**: Earth connection 5, in main wiring harness
- **610**: Earth point (audio), front below centre console

**Fuse Points**
- **B150**: Positive connection 2 (30a), in interior wiring harness
- *2*: Fuses in E-box, Low
- *3*: Fuses in E-box, High

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

Note: Only models with TV tuner.
Control unit with display for radio and navigation, Reversing camera system control unit

J503  Control unit with display for radio and navigation
J772  Reversing camera system control unit
T26g  26-pin connector
T54b  54-pin connector
X100  Connection (screening), in optional equipment wiring harness

Control unit with display for radio and navigation, Reversing camera system control unit

Current Flow Diagram

No. 24 / 4

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

https://www.automotive-manuals.net/
Onboard supply control unit, Reversing camera system control unit, Reversing camera

EX37  Rear lid handle
E234  Rear lid handle release button
J519  Onboard supply control unit
J772  Reversing camera system control unit
R189  Reversing camera
SC17  Fuse 17 on fuse holder C
T1ai  Single connector
T1aj  Single connector
T2ln  2-pin connector
T2xa  2-pin connector, in rear lid
T4aw  4-pin connector
T10q  10-pin connector, in rear left side panel
T52a  52-pin connector, black
T54b  54-pin connector
V432  Emblem motor

W71  Connection (reversing light), in rear wiring harness

*  Saloon
*2  Estate
*3  see applicable current flow diagram for convenience system

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

https://www.automotive-manuals.net/
Electromechanical power steering
From November 2010
Steering angle sender, Steering moment sender, Power steering control unit, Fuse 2 in fuse holder A, Fuse 2 on fuse holder C, Electromechanical power steering motor

- G85  Steering angle sender
- G269  Steering moment sender
- J500  Power steering control unit
- SA2  Fuse 2 in fuse holder A
- SC2  Fuse 2 on fuse holder C
- T2fn  2-pin connector
- T3dt  3-pin connector
- T5ao  5-pin connector
- T5z  5-pin connector
- T6e  6-pin connector
- T6i  6-pin connector
- T6j  6-pin connector
- V187  Electromechanical power steering motor

652  Earth point, engine and gearbox earth

B287  Positive connection 11 (15a) 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 right-hand drive models
*2 Only left-hand drive models
*3 Adapter wire

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Steering angle sender, Control unit in dash panel insert, Steering column electronics control unit, Data bus diagnostic interface, Electromechanical power steering warning lamp

- **G85** Steering angle sender
- **J285** Control unit in dash panel insert
- **J527** Steering column electronics control unit
- **J533** Data bus diagnostic interface
- **K** Dash panel insert
- **K161** Electromechanical power steering warning lamp
- **T16d** 16-pin connector, on diagnostic connection
- **T16o** 16-pin connector
- **T20e** 20-pin connector
- **T32c** 32-pin connector

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

- * Diagnostic connection
- *2 Only left-hand drive models

---

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

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https://www.automotive-manuals.net/
Front camera for driver assist systems
From November 2010
Data bus diagnostic interface, Front camera for driver assist systems, Windscreen heater for front sensors

- **J533** Data bus diagnostic interface
- **R242** Front camera for driver assist systems
- **SC4** Fuse 4 on fuse holder C
- **T12aq** 12-pin connector
- **T20e** 20-pin connector
- **Z113** Windscreen heater for front sensors

- **278** Earth connection 4, in interior wiring harness
- **689** Earth point, at front, central in roof
- **B108** Connection 1 (CAN bus extended high), in main wiring harness
- **B109** Connection 1 (CAN bus extended low), in main wiring harness
- **B277** Positive connection 1 (15a) in main wiring harness

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

https://www.automotive-manuals.net/
Preparation for trailer coupling
From November 2010
Passat

Current Flow Diagram

No. 27 / 2

Trailer detector control unit, Onboard supply control unit,
Fuse 23 on fuse holder C

- J345 Trailer detector control unit
- J519 Onboard supply control unit
- SB3 Fuse 3 on fuse holder B
- SB4 Fuse 4 on fuse holder B
- SC4 Fuse 4 on fuse holder C
- SC23 Fuse 23 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T12g 12-pin connector
- T40 40-pin connector
- T52c 52-pin connector

- 50 Earth point, on left in luggage compartment
- B277 Positive connection 1 (15a) in main wiring harness
- B335 Connection 1 (54), in main wiring harness
- * Not included in preparation for system/component
- *2 Fuses in E-box, Low
- *3 Fuses in E-box, High

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

https://www.automotive-manuals.net/
Control unit in dash panel insert, Trailer detector control unit,
Data bus diagnostic interface, Dash panel insert

J285  Control unit in dash panel insert
J345  Trailer detector control unit
J533  Data bus diagnostic interface
K    Dash panel insert
T210  2-pin connector, near onboard supply control unit
T12g  12-pin connector
T16d  16-pin connector, on diagnostic connection
T20e  20-pin connector
T32c  32-pin connector

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

* Not included in preparation for system/component
*2 Diagnostic connection

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gf = grey
li = purple
ge = yellow
or = orange
rs = pink
Trailer coupling
From November 2010
Passat

Current Flow Diagram

No. 28 / 2

Trailer detector control unit, Onboard supply control unit,
Trailer voltage supply relay, Fuse 23 on fuse holder C

J345 Trailer detector control unit
J519 Onboard supply control unit
J941 Trailer voltage supply relay
SB3 Fuse 3 on fuse holder B
SB4 Fuse 4 on fuse holder B
SC4 Fuse 4 on fuse holder C
SC23 Fuse 23 on fuse holder C
SC25 Fuse 25 on fuse holder C
SC36 Fuse 36 on fuse holder C
T1 Single connector
T9 9-pin connector
T12g 12-pin connector
T40 40-pin connector
T52c 52-pin connector

42 Earth point, next to steering column
50 Earth point, on left in luggage compartment
238 Earth connection 1, in interior wiring harness
277 Earth connection 3, in interior wiring harness
B277 Positive connection 1 (15a) in main wiring harness
B335 Connection 1 (54), in main wiring harness
* Fuses in E-box, Low
*2 Fuses in E-box, High
*3 From May 2012

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 28 / 3

Trailer detector control unit, Trailer socket

J345  Trailer detector control unit
T13   13-pin connector
T16b  16-pin connector
U10   Trailer socket

50   Earth point, on left in luggage compartment

430  Earth connection, in towing bracket wiring harness
* From May 2012

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

ws/ws = white
sw/sw = black
gr/gr = grey
li/lr = purple
Electric hinged tow coupling attachment button, Trailer coupling motor Hall sender, Trailer detector control unit, Trailer towing coupling, Hinged tow attachment ball head motor

- E474 Electric hinged tow coupling attachment button
- G473 Trailer coupling motor Hall sender
- J345 Trailer detector control unit
- K211 Extending tow ball coupling warning lamp
- SC37 Fuse 37 on fuse holder C
- T4wd 4-pin connector
- T5an 5-pin connector
- T12ae 12-pin connector
- T16b 16-pin connector
- VX15 Trailer towing coupling
- V317 Hinged tow attachment ball head motor
Control unit in dash panel insert, Trailer detector control unit, Data bus diagnostic interface, Dash panel insert

- J285: Control unit in dash panel insert
- J345: Trailer detector control unit
- J533: Data bus diagnostic interface
- K: Dash panel insert
- T12g: 12-pin connector
- T16d: 16-pin connector, on diagnostic connection
- T20e: 20-pin connector
- T32c: 32-pin connector
- B397: Connection 1 (convenience CAN bus, high), in main wiring harness
- B406: Connection 1 (convenience CAN bus, low), in main wiring harness
- *: Diagnostic connection
Adaptive cruise control
From November 2010
Sensor for adaptive cruise control, Control unit in dash panel insert, Adaptive cruise control unit, Data bus diagnostic interface, Cruise control system warning lamp, Sensor heater for adaptive cruise control system

G550  Sensor for adaptive cruise control
J285  Control unit in dash panel insert
J428  Adaptive cruise control unit
J533  Data bus diagnostic interface
K     Dash panel insert
K31   Cruise control system warning lamp
SC4   Fuse 4 on fuse holder C
T10a  10-pin connector, in front bumper on left
T10y  10-pin connector
T20e  20-pin connector
T32c  32-pin connector
Z47   Sensor heater for adaptive cruise control system

400   Earth connection 35, in main wiring harness
639   Earth point, left A-pillar
B108  Connection 1 (CAN bus extended high), in main wiring harness
B109  Connection 1 (CAN bus extended low), in main wiring harness
B277  Positive connection 1 (15a) in main wiring harness
B384  Connection 2 (powertrain CAN bus, high), in main wiring harness
B391  Connection 2 (powertrain CAN bus, low), in main wiring harness
B441  Connection (CCS), in main wiring harness

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

https://www.automotive-manuals.net/
Dynamic Chassis Control
From November 2010
Switch module 2 in centre console, Shock absorber damping adjustment button, Electronically controlled damping control unit

EX30  Switch module 2 in centre console
E387  Shock absorber damping adjustment button
J250  Electronically controlled damping control unit
J519  Onboard supply control unit
K189  Shock absorber damping adjustment warning lamp
L76   Button illumination bulb
SC4   Fuse 4 on fuse holder C
SD4   Fuse 4 on fuse holder D
SC23  Fuse 23 on fuse holder C
T26i  26-pin connector
T47a  47-pin connector
T52b  52-pin connector

51    Earth point, on right in luggage compartment
397   Earth connection 32, in main wiring harness
687   Earth point 1, on centre tunnel
B277  Positive connection 1 (15a) in main wiring harness
B340  Connection 1 (58d), in main wiring harness

* Left-hand drive models
*2 Only right-hand drive models
*3 Only left-hand drive models
Front left body acceleration sender, Front right body acceleration sender, Rear body acceleration sender, Electronically controlled damping control unit

G341 Front left body acceleration sender
G342 Front right body acceleration sender
G343 Rear body acceleration sender
J250 Electronically controlled damping control unit
T3do 3-pin connector
T3dp 3-pin connector
T3dq 3-pin connector
T47a 47-pin connector

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Rear left vehicle level sender, Front left vehicle level sender, Front right vehicle level sender, Electronically controlled damping control unit

G76   Rear left vehicle level sender
G78   Front left vehicle level sender
G289  Front right vehicle level sender
J250  Electronically controlled damping control unit
T4va  4-pin connector
T4vb  4-pin connector
T4vc  4-pin connector
T47a  47-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gle = yellow
or = orange
rs = pink
Electronically controlled damping control unit, Front left shock absorber damping adjustment valve, Front right shock absorber damping adjustment valve, Rear left shock absorber damping adjustment valve, Rear right shock absorber damping adjustment valve

- J250 Electronically controlled damping control unit
- N336 Front left shock absorber damping adjustment valve
- N337 Front right shock absorber damping adjustment valve
- N338 Rear left shock absorber damping adjustment valve
- N339 Rear right shock absorber damping adjustment valve
- T47a 47-pin connector

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ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
lv = purple  
vil = purple  
ge = yellow  
or = orange  
rs = pink
Electronically controlled damping control unit, Control unit in dash panel insert, Data bus diagnostic interface, Dash panel insert, Diagnostic connection

J250  Electronically controlled damping control unit
J285  Control unit in dash panel insert
J533  Data bus diagnostic interface
K    Dash panel insert
T16d  16-pin connector
T20e  20-pin connector
T32c  32-pin connector
T47a  47-pin connector
U31   Diagnostic connection, on diagnostic connection

(B384) Connection 2 (powertrain CAN bus, high), in main wiring harness
(B391) Connection 2 (powertrain CAN bus, low), in main wiring harness

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

https://www.automotive-manuals.net/
Auxiliary coolant heater
From November 2010
Auxiliary heater control unit, Heater coolant shut-off valve, Metering pump

- J364 Auxiliary heater control unit
- N279 Heater coolant shut-off valve
- SB21 Fuse 21 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC43 Fuse 43 on fuse holder C
- T2cn 2-pin connector
- T2m 2-pin connector, near fuel tank
- T8ai 8-pin connector
- T14h 14-pin connector
- T40 40-pin connector
- V54 Metering pump

- 50 Earth point, on left in luggage compartment
- 51 Earth point, on right in luggage compartment
- 279 Earth connection 5, in interior wiring harness
- 359 Earth connection, in gas mode wiring harness
- 382 Earth connection 17, in main wiring harness
- 685 Earth point 1 at front of right longitudinal member

* Only models with 6-cylinder engine
*2 Fuses in E-box, Low
*3 Fuses in E-box, High
*4 Only models with second battery
*5 Only models with natural gas engine
*6 From November 2013

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

https://www.automotive-manuals.net/
Temperature sensor, Overheating sensor, Auxiliary heater control unit, Glow plug with flame monitor, Combustion air blower, Circulation pump

- G18 Temperature sensor
- G189 Overheating sensor
- J364 Auxiliary heater control unit
- Q8 Glow plug with flame monitor
- T2k 2-pin connector
- T3z 3-pin connector
- T8e 8-pin connector
- V6 Combustion air blower
- V55 Circulation pump

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

Passat
Current Flow Diagram
No. 31 / 3

https://www.automotive-manuals.net/
Fresh air blower relay, Air conditioning system control unit, Auxiliary heater control unit, Auxiliary heater operation relay, Fresh air blower series resistor with overheating fuse, Fresh air blower

- E9  Fresh air blower switch
- E537 Instant heating button
- J13  Fresh air blower relay
- J301 Air conditioning system control unit
- J364 Auxiliary heater control unit
- J485 Auxiliary heater operation relay
- N24  Fresh air blower series resistor with overheating fuse
- SC1  Fuse 1 on fuse holder C
- SB35  Fuse 35 on fuse holder B
- SC38  Fuse 38 on fuse holder C
- SC45  Fuse 45 on fuse holder C
- T4bp  4-pin connector
- T5r  5-pin connector
- T8ai  8-pin connector
- T10f  10-pin connector
- T20b  20-pin connector
- T26a  26-pin connector
- V2  Fresh air blower, black

- 42  Earth point, next to steering column
- 238  Earth connection 1, in interior wiring harness
- 277  Earth connection 3, in interior wiring harness
- 638  Earth point, on right A-pillar
- 639  Earth point, left A-pillar
- B163 Positive connection 1 (15), in interior wiring harness
- B594 Connection 1, in Climatic wiring harness
- B596 Connection 3, in Climatic wiring harness

* Only models with 6-cylinder engine

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Auxiliary heater control unit, Aerial amplifier, Aerial amplifier 
4, Auxiliary heater aerial

- J364 Auxiliary heater control unit
- R24 Aerial amplifier
- R113 Aerial amplifier 4
- R149 Remote control receiver for auxiliary coolant heater
- R182 Auxiliary heater aerial
- SC15 Fuse 15 on fuse holder C
- T1bw Single connector
- T6i 6-pin connector
- T8ai 8-pin connector
- ZX1 Rear window

- B616 Positive connection 12 (30a), in interior wiring harness

* Only models with remote controlled auxiliary coolant heater
*2 Estate
*3 Left side window aerial
*4 Saloon

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

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https://www.automotive-manuals.net/
Current Flow Diagram

Auxiliary heater control unit, Steering column electronics control unit, Dash panel insert

- E86  Multifunction display call-up button
- E92  Reset button
- E537 Instant heating button
- J119 Multifunction indicator
- J255 Climatronic control unit
- J285 Control unit in dash panel insert
- J364 Auxiliary heater control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- K  Dash panel insert
- T8ai 8-pin connector
- T16o 16-pin connector
- T20c 20-pin connector
- T20e 20-pin connector
- T32c 32-pin connector

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

* Only models with Climatronic

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Supplementary heater
From November 2010
Auxiliary heater control unit, Metering pump

- J364  Auxiliary heater control unit
- J533  Data bus diagnostic interface
- SB21  Fuse 21 on fuse holder B
- SB30  Fuse 30 on fuse holder B
- T2cn  2-pin connector
- T2m  2-pin connector, near fuel tank
- T8ai  8-pin connector
- T20e  20-pin connector
- T40  40-pin connector
- V54  Metering pump

- 51  Earth point, on right in luggage compartment
- 279  Earth connection 5, in interior wiring harness
- 382  Earth connection 17, in main wiring harness
- 685  Earth point 1 at front of right longitudinal member
- B415  Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421  Connection 1 (infotainment CAN bus, low), in main wiring harness

* Fuses in E-box, Low
*2 Fuses in E-box, High

Colors:
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink
Second battery
From November 2010
Second battery, Fuse 2 (30)

A  Battery
A1  Second battery
J13  Fresh air blower relay
J301  Air conditioning system control unit
J364  Auxiliary heater control unit
J485  Auxiliary heater operation relay
SA7  Fuse 7 in fuse holder A
SC38  Fuse 38 on fuse holder C
SC43  Fuse 43 on fuse holder C
SC45  Fuse 45 on fuse holder C
S205  Fuse 2 (30)
T2cn  2-pin connector
T5r  5-pin connector
T10f  10-pin connector

12  Earth point, on left in engine compartment
507  Threaded connection (30), on battery fuse holder
517  Threaded connection 7 (30a) on relay plate
676  Earth point 2, on left in luggage compartment
B111  Positive connection 1 (30a), in interior wiring harness

* Fuses in E-box, Low
*2 Only models with auxiliary heating
*3 Only models with no auxiliary heater

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

Passat
Current Flow Diagram
No. 33 / 2

https://www.automotive-manuals.net/
Onboard supply control unit, Second battery charging circuit relay

- J519 Onboard supply control unit
- J713 Second battery charging circuit relay
- T6ae 6-pin connector
- T52a 52-pin connector
- 42 Earth point, next to steering column
- 238 Earth connection 1, in interior wiring harness
- 277 Earth connection 3, in interior wiring harness
- 639 Earth point, left A-pillar
- B111 Positive connection 1 (30a), in interior wiring harness

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

https://www.automotive-manuals.net/
Windscreen heater
From November 2010
Heated windscreen relay, Onboard supply control unit, Heated windscreen

- E180 Heated windscreen relay
- J47 Heated windscreen switch
- J255 Climatronic control unit
- J301 Air conditioning system control unit
- J519 Onboard supply control unit
- SC15 Fuse 15 on fuse holder C
- SB27 Fuse 27 on fuse holder B
- SB52 Fuse 52 on fuse holder B
- T1a Single connector, black
- T1b Single connector
- T20b 20-pin connector
- T20c 20-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- Z2 Heated windscreen

- 689 Earth point, at front, central in roof
- B275 Positive connection (87), 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
- B616 Positive connection 12 (30a), in interior wiring harness

* Only models with Climatronic
*2 Only models with air conditioning system
*3 Fuses in E-box, High
*4 Fuses in E-box, Low

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

https://www.automotive-manuals.net/
Parking aid (PDC) with park assist steering (Park Assist)
From November 2010
Switch module 2 in centre console, Parking aid button, Park assist steering button, Parking aid control unit, Park assist steering control unit, Parking aid warning lamp, Warning light for park assist steering

EX30  Switch module 2 in centre console
E266  Parking aid button
E581  Park assist steering button
J446  Parking aid control unit
J519  Onboard supply control unit
J791  Park assist steering control unit
K136  Parking aid warning lamp
K241  Warning light for park assist steering
L76   Button illumination bulb
T16   16-pin connector, brown
T26i  26-pin connector
T52b  52-pin connector

397   Earth connection 32, in main wiring harness
687   Earth point 1, on centre tunnel
B340  Connection 1 (58d), in main wiring harness
* Only models with park assist steering

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

https://www.automotive-manuals.net/
Front centre left parking aid sender, Front left parking aid sender, Front left sender for park assist steering on left side of vehicle, Parking aid control unit, Park assist steering control unit

G254 Front centre left parking aid sender
G255 Front left parking aid sender
G568 Front left sender for park assist steering on left side of vehicle
J446 Parking aid control unit
J791 Park assist steering control unit
T8eh 8-pin connector, black
T12a 12-pin connector, brown
T14c 14-pin connector, on front left longitudinal member, black

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

* Only models with park assist steering
*2 From November 2012
*3 Up to November 2012

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

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

https://www.automotive-manuals.net/
Front right parking aid sender, Front centre right parking aid sender, Front right sender for park assist steering on right side of vehicle, Parking aid control unit, Park assist steering control unit

- **G252**: Front right parking aid sender
- **G253**: Front centre right parking aid sender
- **G569**: Front right sender for park assist steering on right side of vehicle
- **J446**: Parking aid control unit
- **J791**: Park assist steering control unit
- **T8eh**: 8-pin connector, black
- **T12**: 12-pin connector, black
- **T12a**: 12-pin connector, brown
- **T14c**: 14-pin connector, on front left longitudinal member, black

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

* Only models with park assist steering
*2 From November 2012
*3 Up to November 2012

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Rear left parking aid sender, Rear centre left parking aid sender, Rear centre right parking aid sender, Rear right parking aid sender, Rear left park assist steering sender, Rear right park assist steering sender, Parking aid control unit, 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
- G716 Rear left park assist steering sender
- G717 Rear right park assist steering sender
- J446 Parking aid control unit
- J791 Park assist steering control unit
- T8d 8-pin connector, under rear bumper on right, black
- T12 12-pin connector, black

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

* Only models with park assist steering

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

https://www.automotive-manuals.net/
Control unit in dash panel insert, Parking aid control unit, Data bus diagnostic interface, Park assist steering control unit, Dash panel insert

- J285 Control unit in dash panel insert
- J446 Parking aid control unit
- J533 Data bus diagnostic interface
- J791 Park assist steering control unit
- K Dash panel insert
- T16 16-pin connector, brown
- T16d 16-pin connector, on diagnostic connection
- T20e 20-pin connector
- T32c 32-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

* Diagnostic connection

**Legend**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Dual clutch gearbox 0AM
From November 2010
Gearbox input speed sender, Engine control unit, Mechatronic unit for dual clutch gearbox, Hydraulic pump motor

- G182 Gearbox input speed sender
- G510 Temperature sender in control unit
- J623 Engine control unit
- J743 Mechatronic unit for dual clutch gearbox
- SB6 Fuse 6 on fuse holder B
- SB8 Fuse 8 on fuse holder B
- SC39 Fuse 39 on fuse holder C
- T25 25-pin connector
- T40 40-pin connector
- T94 94-pin connector
- V401 Hydraulic pump motor

- 201 Earth connection 5, in engine compartment wiring harness
- 673 Earth point 3, on front of left longitudinal member
- B278 Positive connection 2 (15a) in main wiring harness
- SB6 Fuse 6 on fuse holder B
- SB8 Fuse 8 on fuse holder B
- SC39 Fuse 39 on fuse holder C
- T25 25-pin connector
- T40 40-pin connector
- T94 94-pin connector
- V401 Hydraulic pump motor

See applicable current flow diagram for engine

*2 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

https://www.automotive-manuals.net/
Selector lever locked in position P switch, Gearbox hydraulic pressure sender, Gear selector movement sensor 1, Gear selector movement sensor 2, Gear selector movement sensor 3, Gear selector movement sensor 4, Clutch travel sender 1, Clutch travel sender 2, Gearbox input speed sender 3, Mechatronic unit for dual clutch gearbox

- E313  Selector lever
- F319  Selector lever locked in position P switch
- G270  Gearbox hydraulic pressure sender
- 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
- G641  Gearbox input speed sender 3
- J519  Onboard supply control unit
- J527  Gearbox hydraulic pressure sender
- J743  Mechatronic unit for dual clutch gearbox
- N110  Selector lever lock solenoid
- SC13  Fuse 13 on fuse holder C
- T2hy  2-pin connector
- T10o  10-pin connector, under selector lever
- T16o  16-pin connector
- T52b  52-pin connector

- Earth connection 31, in main wiring harness
- Earth point 1, on centre tunnel
- Positive connection 17 (30a) in main wiring harness
- Connection 1 (58d), in main wiring harness
- Connection 2 (58d), in main wiring harness

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

https://www.automotive-manuals.net/
| E313 | Selector lever |
| 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 |

- T10o 10-pin connector, under selector lever
- T10x 10-pin connector
- T25 25-pin connector
- Y6 Selector lever position display

- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

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**Passat**  
**Current Flow Diagram**

**Mechatronic unit for dual clutch gearbox, Selector lever position display**

- E313 Selector lever
- 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

- T10o 10-pin connector, under selector lever
- T10x 10-pin connector
- T25 25-pin connector
- Y6 Selector lever position display

- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness

---

**Legend**

- **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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**https://www.automotive-manuals.net/*
Gearbox input speed sender 2, Gearbox input speed sender 1, Multifunction indicator, Control unit in dash panel insert, Data bus diagnostic interface, Mechatronic unit for dual clutch gearbox

- G612 Gearbox input speed sender 2
- G632 Gearbox input speed sender 1
- J119 Multifunction indicator
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- J743 Mechatronic unit for dual clutch gearbox
- SC7 Fuse 7 on fuse holder C
- T16d 16-pin connector, on diagnostic connection
- T20e 20-pin connector
- T25 25-pin connector
- T32 32-pin connector
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), 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
Dual clutch gearbox 02E
From November 2010
Gearbox oil temperature sender, Gearbox input speed sender, Clutch temperature sender, Temperature sender in control unit, Mechatronic unit for dual clutch gearbox

- G93: Gearbox oil temperature sender
- G182: Gearbox input speed sender
- G509: Clutch temperature sender
- G510: Temperature sender in control unit
- J743: Mechatronic unit for dual clutch gearbox
- SB6: Fuse 6 on fuse holder B
- SC39: Fuse 39 on fuse holder C
- T4ah: 4-pin connector
- T20m: 20-pin connector
- T40: 40-pin connector

- 392: Earth connection 27, in main wiring harness
- 673: Earth point 3, on front of left longitudinal member
- B278: Positive connection 2 (15a) in main wiring harness
- B328: Positive connection 14 (30a) in main wiring harness

**Legend:**
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink
Selector lever locked in position P switch, Automatic gearbox hydraulic pressure sender 1, Automatic gearbox hydraulic pressure sender 2, Gear selector movement sensor 1, Gear selector movement sensor 2, Gear selector movement sensor 3, Gear selector movement sensor 4, Mechatronic unit for dual clutch gearbox

- E313 Selector lever
- F319 Selector lever locked in position P switch
- 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
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J743 Mechatronic unit for dual clutch gearbox
- N110 Selector lever lock solenoid
- SC13 Fuse 13 on fuse holder C
- T2hy 2-pin connector
- T16o 10-pin connector, under selector lever
- T16a 16-pin connector
- T52b 52-pin connector
- 396 Earth connection 31, in main wiring harness
- 687 Earth point 1, on centre tunnel
- B331 Positive connection 17 (30a) in main wiring harness
- B340 Connection 1 (58d), in main wiring harness
- B341 Connection 2 (58d), in main wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink
Mechatronic unit for dual clutch gearbox, Selector lever position display

- E313  Selector lever
- J743  Mechatronic unit for dual clutch gearbox
- 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
- T10o  10-pin connector, under selector lever
- T10x  10-pin connector
- T20m  20-pin connector
- Y6    Selector lever position display

- B384  Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391  Connection 2 (powertrain CAN bus, low), in main wiring harness
Gearbox output speed sender, Gearbox output speed sender 2, Input shaft speed sender 1, Input shaft speed sender 2, Multifunction indicator, Control unit in dash panel insert, Data bus diagnostic interface, Mechatronic unit for dual clutch gearbox

- G195 Gearbox output speed sender
- G196 Gearbox output speed sender 2
- G501 Input shaft speed sender 1
- G502 Input shaft speed sender 2
- J119 Multifunction indicator
- J285 Control unit in dash panel insert
- J533 Data bus diagnostic interface
- J743 Mechatronic unit for dual clutch gearbox
- SC7 Fuse 7 on fuse holder C
- T16d 16-pin connector, on diagnostic connection
- T20e 20-pin connector
- T20m 20-pin connector
- T32 32-pin connector
- B384 Connection 2 (powertrain CAN bus, high), in main wiring harness
- B391 Connection 2 (powertrain CAN bus, low), in main wiring harness
- B444 Connection 1 (diagnosis), in main wiring harness

Legend:
- 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, Mechatronic unit for dual clutch gearbox, Solenoid valve 1, Solenoid valve 2, Solenoid valve 3, Solenoid valve 4

- J623  Engine 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
- T20m  20-pin connector
- T94  94-pin connector

(D109) Connection 7 in engine compartment wiring harness

- *  Only models with diesel engines
- *2  see applicable current flow diagram for engine
- *3  Only models with petrol engine

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

https://www.automotive-manuals.net/
Auxiliary air heater (PTC)
From November 2010
Passat

Current Flow Diagram

Low heat output relay, High heat output relay, Auxiliary air heater element

- **J359**: Low heat output relay, on additional relay carrier
- **J360**: High heat output relay, on additional relay carrier
- **J623**: Engine control unit
- **SA7**: Fuse 7 in fuse holder A
- **SB17**: Fuse 17 on fuse holder B
- **SB20**: Fuse 20 on fuse holder B
- **T3dg**: 3-pin connector
- **T40**: 40-pin connector
- **T94**: 94-pin connector
- **Z35**: Auxiliary air heater element
- **684**: Earth point on front of left side member
- **B584**: Positive connection 1 (87a), in interior wiring harness
- **B636**: Connection (supplementary heater), in main wiring harness

**Wiring Color Codes**
- **ws** = white
- **sw** = black
- **ro** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Rear roller blind
From November 2010
Switch module 2 in centre console, Rear roller blind switch, Rear roller blind control unit, Rear roller blind motor

- **EX30** - Switch module 2 in centre console
- **E149** - Rear roller blind switch
- **J262** - Rear roller blind control unit
- **J519** - Onboard supply control unit
- **L77** - Rear roller blind switch illumination bulb
- **SC4** - Fuse 4 on fuse holder C
- **SC21** - Fuse 21 on fuse holder C
- **T4l** - 4-pin connector
- **T26i** - 26-pin connector
- **T52b** - 52-pin connector
- **V91** - Rear roller blind motor

**Circuit Components**
- **50** - Earth point, on left in luggage compartment
- **369** - Earth connection 4, in main wiring harness
- **397** - Earth connection 32, in main wiring harness
- **687** - Earth point 1, on centre tunnel
- **B277** - Positive connection 1 (15a) in main wiring harness
- **B340** - Connection 1 (58d), in main wiring harness

* Up to April 2011
*2 From May 2011

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

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https://www.automotive-manuals.net/
Electrically operated rear lid
From November 2010
Power latching system limit switch, luggage compartment unlocked, Power latching system limit switch, luggage compartment locked, Rear lid control unit, Rear lid control unit 2, Power latching motor, Motor in rear lid control unit, Motor in rear lid control unit 2

- **F332** Power latching system limit switch, luggage compartment unlocked
- **F333** Power latching system limit switch, luggage compartment locked
- **J605** Rear lid control unit, on rear left roof frame
- **J756** Rear lid control unit 2, on rear right roof frame
- **SD1** Fuse 1 on fuse holder D
- **SD2** Fuse 2 on fuse holder D
- **T5y** 5-pin connector
- **T8e** 8-pin connector
- **T10ah** 10-pin connector
- **V329** Power latching motor
- **V375** Motor in rear lid control unit
- **V376** Motor in rear lid control unit 2

- **51** Earth point, on right in luggage compartment
- **98** Earth connection, in rear lid wiring harness
- **382** Earth connection 17, in main wiring harness
  - * Estate
  - *2 Saloon
  - *3 Only models with parking aid (PDC)

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

https://www.automotive-manuals.net/
Onboard supply control unit, Data bus diagnostic interface,
Terminal 30 voltage supply relay 2

- J519 Onboard supply control unit
- J533 Data bus diagnostic interface
- J689 Terminal 30 voltage supply relay 2
- T10h 10-pin connector, in rear right side panel
- T16d 16-pin connector, on diagnostic connection
- T20e 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
- B559 Positive connection 1 (30g), in main wiring harness

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

https://www.automotive-manuals.net/
Rear lid power opening sender, Rear lid power opening sender 2, Rear lid power opening control unit

- G750 Rear lid power opening sender, in rear bumper
- G760 Rear lid power opening sender 2, in rear bumper
- J938 Rear lid power opening control unit, behind rear bumper on right
- T3an 3-pin connector
- T4hk 4-pin connector
- T4hl 4-pin connector
- T5hk 5-pin connector
- T8d 8-pin connector

345 Earth connection, in bumper wiring harness
380 Earth connection 15, in main wiring harness
* According to equipment
*2 Estate
*3 Saloon
*4 Only models with parking aid (PDC)

No.  40 /  5

Current Flow Diagram

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

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

https://www.automotive-manuals.net/
DC/AC converter with socket
From November 2010
DC/AC converter switch, Electric socket warning lamp, DC/AC converter with socket, 12 V - 230 V

- **E136** DC/AC converter switch
- **J519** Onboard supply control unit
- **K76** Electric socket warning lamp
- **SC1** Fuse 1 on fuse holder C
- **SC31** Fuse 31 on fuse holder C
- **T3aj** 3-pin connector
- **T52c** 52-pin connector
- **U13** DC/AC converter with socket, 12 V - 230 V

- **389** Earth connection 24, in main wiring harness
- **687** Earth point 1, on centre tunnel
- **B163** Positive connection 1 (15), in interior wiring harness
- **B344** Connection 1 (61), in main wiring harness

* Only models with energy recovery
*2 Only models with no start/stop system
*3 Only models with start/stop system

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

https://www.automotive-manuals.net/
Cigarette lighter and 12 V sockets
From November 2010
X-contact relief relay, Onboard supply control unit, Fuse 41 on fuse holder C, 12 V socket

- J59 X-contact relief relay
- J519 Onboard supply control unit
- SB29 Fuse 29 on fuse holder B
- SC41 Fuse 41 on fuse holder C
- SC42 Fuse 42 on fuse holder C
- SB53 Fuse 53 on fuse holder B
- T3am 3-pin connector
- T40 40-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U5 12 V socket, in luggage compartment

- 51 Earth point, on right in luggage compartment
- 249 Earth connection 2, in interior wiring harness
- 639 Earth point, left A-pillar
- B319 Positive connection 5 (30a) in main wiring harness
- B346 Connection 1 (75), in main wiring harness
- B491 Positive connection (75), in interior wiring harness

* Fuses in E-box, Low
*2 Fuses in E-box, High
*3 gradual introduction

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

https://www.automotive-manuals.net/
Onboard supply control unit, Cigarette lighter illumination bulb, Cigarette lighter, Rear cigarette lighter

- J519 Onboard supply control unit
- L28 Cigarette lighter illumination bulb
- T3ak 3-pin connector
- T52b 52-pin connector
- U1 Cigarette lighter
- U9 Rear cigarette lighter

- 389 Earth connection 24, in main wiring harness
- 687 Earth point 1, on centre tunnel
- (B340) Connection 1 (58d), in main wiring harness
- (B491) Positive connection (75), in interior wiring harness

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

https://www.automotive-manuals.net/
Gas discharge headlights (bi-xenon) with automatic headlight range control and cornering light
From November 2010
Rear left vehicle level sender, Headlight range control unit

G76  Rear left vehicle level sender
J431  Headlight range control unit
SC4  Fuse 4 on fuse holder C
T4w  4-pin connector
T16d  16-pin connector, on diagnostic connection
T26  26-pin connector

638  Earth point, on right A-pillar

B277  Positive connection 1 (15a) in main wiring harness
B488  Connection 24, in main wiring harness
B489  Connection 25, in main wiring harness
B490  Connection 26, in main wiring harness
C67  Connection (CAN bus, high), in headlight wiring harness
C68  Connection (CAN bus, low), in headlight wiring harness

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

Current Flow Diagram

No. 43 / 3

Left gas discharge bulb control unit, Onboard supply control unit, Output module for left headlight, Control unit for cornering light and headlight range control, Control unit for left daytime running light and side light, Front left headlight

J343  Left gas discharge bulb control unit
J519  Onboard supply control unit
J667  Output module for left headlight
J745  Control unit for cornering light and headlight range control
J860  Control unit for left daytime running light and side light
L13   Left gas discharge (xenon) bulb
L176  Left LED module for daytime running light and side light
MX1   Front left headlight
M1    Left side light bulb
M5    Front left turn signal bulb
SC5   Fuse 5 on fuse holder C
SC40  Fuse 40 on fuse holder C
T14d  14-pin connector
T52a  52-pin connector
T52b  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

371   Earth connection 6, in main wiring harness
652   Earth point, engine and gearbox earth
B162  Connection (75a), in interior wiring harness
* Only models with dynamic cornering light

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

https://www.automotive-manuals.net/
Right gas discharge bulb control unit, Onboard supply control unit, Output module for right headlight, Control unit for cornering light and headlight range control, Control unit for right daytime running light and side light, Control unit for right daytime running light and side light, Front right headlight.

- J344 Right gas discharge bulb control unit
- J519 Onboard supply control unit
- J668 Output module for right headlight
- J745 Control unit for cornering light and headlight range control
- J861 Control unit for right daytime running light and side light
- L14 Right gas discharge (xenon) bulb
- L177 Right LED module for daytime running light and side light
- MX2 Front right headlight
- M3 Right side light bulb
- M7 Front right turn signal bulb
- SC8 Fuse 8 on fuse holder C
- T14e 14-pin connector
- T52a 52-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

- 279 Earth connection 5, in interior wiring harness
- 685 Earth point 1 at front of right longitudinal member

* Only models with dynamic cornering light

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

https://www.automotive-manuals.net/
Light switch, Switch and instrument illumination regulator,
Onboard supply control unit

- E1  Light switch
- E7  Fog light switch
- E18 Rear fog light switch
- E20  Switch and instrument illumination regulator
- J519 Onboard supply control unit
- L9  Light switch illumination bulb
- SC2  Fuse 2 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- T8g 8-pin connector
- T10j 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

42  Earth point, next to steering column
238  Earth connection 1, in interior wiring harness
249  Earth connection 2, in interior wiring harness
277  Earth connection 3, in interior wiring harness
639  Earth point, left A-pillar
B287 Positive connection 11 (15a) in main wiring harness
B331 Positive connection 17 (30a) in main wiring harness
B341 Connection 2 (58d), in main wiring harness

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

https://www.automotive-manuals.net/
Onboard supply control unit, Steering column electronics control unit, Data bus diagnostic interface

- **J519**: Onboard supply control unit
- **J527**: Steering column electronics control unit
- **J533**: Data bus diagnostic interface
- **T16o**: 16-pin connector
- **T20e**: 20-pin connector
- **T52b**: 52-pin connector
- **T52c**: 52-pin connector
- **B108**: Connection 1 (CAN bus extended high), in main wiring harness
- **B109**: Connection 1 (CAN bus extended low), in main wiring harness
- **B340**: Connection 1 (58d), 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
- **B397**: Connection 1 (convenience CAN bus, high), in main wiring harness
- **B406**: Connection 1 (convenience CAN bus, low), in main wiring harness

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Electric seat adjustment with memory function , (3L6),(8I1)
From November 2010
Lumbar support height adjustment button, Lumbar support longitudinal adjustment button, Driver seat adjustment operating unit, Driver seat adjustment control unit, Driver seat adjustment thermal fuse 1

- E335 Lumbar support height adjustment button
- E336 Lumbar support longitudinal adjustment button
- E418 Seat longitudinal adjustment button
- E421 Rake adjustment button
- E424 Seat height adjustment button
- E425 Backrest adjustment button
- E470 Driver seat adjustment operating unit
- J810 Driver seat adjustment control unit
- S44 Driver seat adjustment thermal fuse 1

- T6bn 6-pin connector
- T10c 10-pin connector
- T12aa 12-pin connector
- T12ab 12-pin connector
- T32f 32-pin connector

- Earth connection 1, in seat heating wiring harness
- Earth point on front of left side member
- Connection (driver side seat adjustment), in interior wiring harness
- Connection 3, seat adjustment wiring harness

* Cross section depends on equipment

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

https://www.automotive-manuals.net/
Massage function button, Driver operating unit for memory settings, Backrest adjustment sender for driver seat, Data bus diagnostic interface, Driver seat adjustment control unit, Driver seat backrest adjustment motor

E218 Seat memory position button 1
E219 Seat memory position button 2
E220 Seat memory position button 3
E337 Massage function button
E447 Seat position memory button
E464 Driver operating unit for memory settings
G219 Backrest adjustment sender for driver seat
J533 Data bus diagnostic interface
J810 Driver seat adjustment control unit
T4bx 4-pin connector
T4vm 4-pin connector
T6bl 6-pin connector
T10ar 10-pin connector
T10c 10-pin connector
T12ab 12-pin connector
T20e 20-pin connector
T32f 32-pin connector
V45 Driver seat backrest adjustment motor

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

* According to equipment

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

https://www.automotive-manuals.net/
Longitudinal adjustment sender for driver seat, Height adjustment sender for driver seat, Rake adjustment sender for driver seat, Driver seat adjustment control unit, Driver seat longitudinal adjustment motor, Driver seat height adjustment motor, Driver seat rake adjustment motor

G218 Longitudinal adjustment sender for driver seat
G231 Height adjustment sender for driver seat
G232 Rake adjustment sender for driver seat
J810 Driver seat adjustment control unit
T4bs 4-pin connector
T4bt 4-pin connector
T4vk 4-pin connector
T10ar 10-pin connector
T12ab 12-pin connector
V28 Driver seat longitudinal adjustment motor
V138 Driver seat height adjustment motor
V243 Driver seat rake adjustment motor
Front passenger seat lumbar support adjustment switch, Lumbar support height adjustment sender, Lumbar support longitudinal adjustment sender, Potentiometer for height adjustment of lumbar support with massage function, Driver seat adjustment control unit, Front passenger seat lumbar support longitudinal adjustment motor, Front passenger seat lumbar support height adjustment motor, Lumbar support height adjustment motor, Lumbar support longitudinal adjustment motor, Lumbar support massage function pump

E177 Front passenger seat lumbar support adjustment switch
G374 Lumbar support height adjustment sender
G375 Lumbar support longitudinal adjustment sender
G423 Potentiometer for height adjustment of lumbar support with massage function
J810 Driver seat adjustment control unit
T4ca 4-pin connector
T4cb 4-pin connector
T6bm 6-pin connector
T6uf 6-pin connector
T16n 16-pin connector
V126 Front passenger seat lumbar support longitudinal adjustment motor
V130 Front passenger seat lumbar support height adjustment motor
V229 Lumbar support height adjustment motor
V230 Lumbar support longitudinal adjustment motor
V328 Lumbar support massage function pump

95 Earth connection 1, in seat adjustment wiring harness
M1 Positive connection 1 (30), in seat adjustment wiring harness
M96 Connection 4, in seat adjustment wiring harness

* According to equipment

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

https://www.automotive-manuals.net/
Front passenger seat adjustment operating unit, Front passenger seat backrest adjustment motor, Front passenger seat pan

- E471 Front passenger seat adjustment operating unit
- T4cr 4-pin connector
- T4cs 4-pin connector
- T4nm 4-pin connector
- T6dd 6-pin connector
- T6f 6-pin connector
- T6uf 6-pin connector
- T10as 10-pin connector
- T10d 10-pin connector
- V31 Front passenger seat longitudinal adjustment motor
- V46 Front passenger seat backrest adjustment motor
- VX60 Front passenger seat pan
- V191 Front passenger seat height adjustment motor
- V244 Front passenger seat rake adjustment motor

- 95 Earth connection 1, in seat adjustment wiring harness
- 683 Earth point on front of right side member
- M1 Positive connection 1 (30), in seat adjustment wiring harness
- * Cross section depends on equipment

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

https://www.automotive-manuals.net/
Electric seat adjustment with no memory function, (3PB), (3L4), (8I0)
From November 2010
Driver seat adjustment operating unit, Driver seat backrest adjustment motor, Driver seat pan

- E470 Driver seat adjustment operating unit
- T4db 4-pin connector
- T4dc 4-pin connector
- T4dd 4-pin connector
- T6bo 6-pin connector
- T6dc 6-pin connector
- T10al 10-pin connector
- T10c 10-pin connector, under driver seat
- V28 Driver seat longitudinal adjustment motor
- V45 Driver seat backrest adjustment motor
- VX59 Driver seat pan
- V138 Driver seat height adjustment motor
- V243 Driver seat rake adjustment motor

140 Earth connection 2, in seat adjustment wiring harness
684 Earth point on front of left side member
M2 Positive connection 2 (30), in seat adjustment wiring harness

Cross section depends on equipment

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

https://www.automotive-manuals.net/
Driver seat lumbar support adjustment switch, Front passenger seat lumbar support adjustment switch, Driver seat adjustment thermal fuse 1, Driver seat lumbar support longitudinal adjustment motor, Front passenger seat lumbar support longitudinal adjustment motor, Driver seat lumbar support height adjustment motor, Front passenger seat lumbar support height adjustment motor

- E176: Driver seat lumbar support adjustment switch
- E177: Front passenger seat lumbar support adjustment switch
- S44: Driver seat adjustment thermal fuse 1
- T6bm: 6-pin connector
- T6bo: 6-pin connector
- T6cp: 6-pin connector
- T6uf: 6-pin connector
- T10c: 10-pin connector, under driver seat
- T10d: 10-pin connector, under front passenger seat
- V125: Driver seat lumbar support longitudinal adjustment motor
- V126: Front passenger seat lumbar support longitudinal adjustment motor
- V129: Driver seat lumbar support height adjustment motor
- V130: Front passenger seat lumbar support height adjustment motor
- B118: Connection (driver side seat adjustment), in interior wiring harness

- M1: Positive connection 1 (30), in seat adjustment wiring harness
- M2: Positive connection 2 (30), in seat adjustment wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Front passenger seat adjustment operating unit, Front passenger seat backrest adjustment motor, Front passenger seat pan

- E471 Front passenger seat adjustment operating unit
- T4cr 4-pin connector
- T4cs 4-pin connector
- T4nm 4-pin connector
- T6dd 6-pin connector
- T6uf 6-pin connector
- T10as 10-pin connector
- T10d 10-pin connector, under front passenger seat
- V31 Front passenger seat longitudinal adjustment motor
- V46 Front passenger seat backrest adjustment motor
- VX60 Front passenger seat pan
- V191 Front passenger seat height adjustment motor
- V244 Front passenger seat rake adjustment motor

- 95 Earth connection 1, in seat adjustment wiring harness
- 683 Earth point on front of right side member
- M1 Positive connection 1 (30), in seat adjustment wiring harness

* Cross section depends on equipment

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

https://www.automotive-manuals.net/
Electrically adjustable backrest and lumbar support, (3PD), (3PG), (7P1)

From November 2010
Driver seat lumbar support adjustment switch, Fuse 35 on fuse holder C, Driver seat backrest adjustment motor, Driver seat lumbar support longitudinal adjustment motor, Driver seat lumbar support height adjustment motor

E176  Driver seat lumbar support adjustment switch
SC35   Fuse 35 on fuse holder C
T4bx   4-pin connector
T4vk   4-pin connector
T6bo   6-pin connector
T8av   8-pin connector
T10c   10-pin connector
V45    Driver seat backrest adjustment motor
V125   Driver seat lumbar support longitudinal adjustment motor
V129   Driver seat lumbar support height adjustment motor

96    Earth connection 1, in seat heating wiring harness
684   Earth point on front of left side member

* Only left-hand drive models
*2 According to equipment
*3 Left-hand drive models
*4 Electrically adjustable driver and front passenger seats
*5 Cross section depends on equipment
Driver seat lumbar support adjustment switch, Driver seat adjustment thermal fuse 1, Driver seat backrest adjustment motor, Driver seat lumbar support longitudinal adjustment motor, Driver seat lumbar support height adjustment motor

E176  Driver seat lumbar support adjustment switch
SC36  Fuse 36 on fuse holder C
S44  Driver seat adjustment thermal fuse 1
T1  1-pin connector
T4by  4-pin connector
T4ca  4-pin connector
T4cb  4-pin connector
T6uf  6-pin connector
T8aw  8-pin connector
T10d  10-pin connector
V45  Driver seat backrest adjustment motor
V125  Driver seat lumbar support longitudinal adjustment motor
V129  Driver seat lumbar support height adjustment motor

136  Earth connection 2, in seat heating wiring harness
683  Earth point on front of right side member
B118  Connection (driver side seat adjustment), in interior wiring harness

*  Only right-hand drive models
*2  According to equipment
*3  Electrically adjustable driver and front passenger seats
*4  Cross section depends on equipment

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

https://www.automotive-manuals.net/
Seat ventilation , (4D3)
From November 2010
Seat ventilation switch, Seat ventilation warning lamp 1, Driver seat backrest fan, Driver seat cushion fan

- **E655**: Seat ventilation switch
- **K274**: Seat ventilation warning lamp 1
- **SC1**: Fuse 1 on fuse holder C
- **T4vn**: 4-pin connector
- **T4vo**: 4-pin connector, white
- **T10c**: 10-pin connector
- **V388**: Driver seat backrest fan
- **V390**: Driver seat cushion fan

- **96**: Earth connection 1, in seat heating wiring harness
- **412**: Earth connection 3, in seat adjustment wiring harness
- **684**: Earth point on front of left side member
- **B163**: Positive connection 1 (15), in interior wiring harness
- **M61**: Connection 1, in rear seat wiring harness
- **M62**: Connection 2, in rear seat wiring harness

* Cross section depends on equipment

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

**Notes**
- Cross section depends on equipment
- **Passat**
- **Current Flow Diagram**
- **No. 47 / 2**

[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Seat ventilation switch 2, Seat ventilation warning lamp 2, Front passenger seat backrest fan, Front passenger seat cushion fan

- E723  Seat ventilation switch 2
- K275  Seat ventilation warning lamp 2
- T4nv  4-pin connector
- T4vr  4-pin connector, white
- T10d  10-pin connector
- V389  Front passenger seat backrest fan
- V391  Front passenger seat cushion fan
- 471  Earth connection 5, in seat adjustment wiring harness
- 683  Earth point on front of right side member
- M51  Connection 1, in front passenger seat wiring harness
- M52  Connection 2, in front passenger seat wiring harness

* Cross section depends on equipment

---

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
gn = green  
bl = blue  
gr = grey  
l1 = purple  
v1 = purple  
ge = yellow  
or = orange  
rs = pink

---

https://www.automotive-manuals.net/
Seat heating
From November 2010
Driver seat temperature sensor, Heated front seats control unit, Heated seat cushion for driver seat, Heated backrest for driver seat

- G59 Driver seat temperature sensor
- J519 Onboard supply control unit
- J774 Heated front seats control unit
- SC34 Fuse 34 on fuse holder C
- T2cj 2-pin connector
- T4bv 4-pin connector
- T8ac 8-pin connector
- T10c 10-pin connector, under driver seat
- T52b 52-pin connector
- Z6 Heated seat cushion for driver seat
- Z7 Heated backrest for driver seat

- G69

- 96 Earth connection 1, in seat heating wiring harness
- 684 Earth point on front of left side member
- O4 Positive connection (30as), in seat heating wiring harness
- O15 Connection 4, in seat heating wiring harness
- O16 Connection 5, in seat heating wiring harness

* Only models with heated rear seats

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 48 / 3

Button for left seat heating, Button for right seat heating,
Climatronic control unit, Air conditioning system control unit,
Heated front seats control unit

- E653 Button for left seat heating
- E654 Button for right seat heating
- J255 Climatronic control unit
- J301 Air conditioning system control unit
- J774 Heated front seats control unit
- T8ac 8-pin connector
- T10c 10-pin connector, under driver seat
- T20b 20-pin connector
- T20c 20-pin connector

- B483 Connection 19, in main wiring harness
- O16 Connection 5, in seat heating wiring harness

* Only models with air conditioning system
*2 Only models with Climatronic

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

https://www.automotive-manuals.net/
Front passenger seat temperature sensor, Heated front seats control unit, Heated seat cushion for front passenger seat, Heated backrest for front passenger seat

- G60 Front passenger seat temperature sensor
- J774 Heated front seats control unit
- T2fr 2-pin connector
- T4bu 4-pin connector
- T8ac 8-pin connector
- T10c 10-pin connector, under driver seat
- T10d 10-pin connector, Coupling point under front passenger seat
- Z8 Heated seat cushion for front passenger seat
- Z9 Heated backrest for front passenger seat

- 136 Earth connection 2, in seat heating wiring harness
- 683 Earth point on front of right side member
- M9 Connection, in seat adjustment wiring harness

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

Current Flow Diagram

Passat

https://www.automotive-manuals.net/
Rear left seat temperature sensor, Seat backrest temperature sender, Heated rear seats control unit, Heated bench seat cushion for rear left seat, Heated backrest for rear left seat

- G94 Rear left seat temperature sensor
- G371 Seat backrest temperature sender
- J786 Heated rear seats control unit
- T4d 4-pin connector
- T4wa 4-pin connector
- T8l 8-pin connector
- Z10 Heated bench seat cushion for rear left seat
- Z11 Heated backrest for rear left seat

- 376 Earth connection 11, in main wiring harness
- B487 Connection 23, in main wiring harness
- * Only models with heated rear seats
Heated rear left seat switch with regulator, Heated rear right seat switch with regulator, Heated rear seats control unit

- E128 Heated rear left seat switch with regulator
- E129 Heated rear right seat switch with regulator
- J519 Onboard supply control unit
- J786 Heated rear seats control unit
- SC1 Fuse 1 on fuse holder C
- T6ai 6-pin connector
- T6aj 6-pin connector
- T8i 8-pin connector
- T52b 52-pin connector

- 396 Earth connection 31, in main wiring harness
- 683 Earth point on front of right side member
- 687 Earth point 1, on centre tunnel
- B163 Positive connection 1 (15), in interior wiring harness
- B340 Connection 1 (58d), in main wiring harness
- B484 Connection 20, in main wiring harness
- B485 Connection 21, in main wiring harness

* Only models with heated rear seats

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

https://www.automotive-manuals.net/
Rear right seat temperature sensor, Seat backrest temperature sender, Heated rear seats control unit, Fuse 29 on fuse holder C, Heated bench seat cushion for rear right seat, Heated backrest for rear right seat

- **G95** Rear right seat temperature sensor
- **G371** Seat backrest temperature sender
- **J786** Heated rear seats control unit
- **SC29** Fuse 29 on fuse holder C
- **T4** 4-pin connector
- **T4vz** 4-pin connector
- **T8l** 8-pin connector
- **Z12** Heated bench seat cushion for rear right seat
- **Z13** Heated backrest for rear right seat

- **78** Earth point, lower part of right B-pillar
- **381** Earth connection 16, in main wiring harness
- **B320** Positive connection 6 (30a) in main wiring harness
- **B485** Connection 21, in main wiring harness
- **B486** Connection 22, in main wiring harness

*Only models with heated rear seats*
Mobile telephone operating electronics control unit, Roof aerial, Telephone aerial, Telephone bracket

- **J412** Mobile telephone operating electronics control unit
- **RX5** Roof aerial
- **R65** Telephone aerial
- **R126** Telephone bracket
- **SB12** Fuse 12 on fuse holder B
- **SB20** Fuse 20 on fuse holder B
- **SC47** Fuse 47 on fuse holder C
- **T8c** 8-pin connector
- **T10ak** 10-pin connector
- **T40** 40-pin connector
- **T54** 54-pin connector

Fuses in E-box, Low

- **Fuses in E-box, Low**
- **According to equipment**
- **From May 2011**
- **Fuses in E-box, High**
- **Up to April 2011**
- **Only models with no start/stop system**
- **Only models with start/stop system**

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

References:
- [Current Flow Diagram](https://www.automotive-manuals.net/)
Mobile telephone operating electronics control unit, Control unit with display for radio and navigation, Onboard supply control unit, Telephone microphone

- **E276**: Emergency assistance call button
- **J412**: Mobile telephone operating electronics control unit
- **J503**: Control unit with display for radio and navigation
- **J519**: Onboard supply control unit
- **R38**: Telephone microphone
- **T6ad**: 6-pin connector
- **T12l**: 12-pin connector, green
- **T52b**: 52-pin connector
- **T54**: 54-pin connector

- **B340**: Connection 1 (58d), in main wiring harness
- **B341**: Connection 2 (58d), in main wiring harness

* According to equipment
*2 Only models with voice control

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

Current Flow Diagram

No. 49 / 3

Passat

https://www.automotive-manuals.net/
Mobile telephone operating electronics control unit, Data bus diagnostic interface, Roof aerial, Telephone aerial, Chip card reader for telephone

- **J412**: Mobile telephone operating electronics control unit
- **J533**: Data bus diagnostic interface
- **RX5**: Roof aerial
- **R65**: Telephone aerial
- **R115**: Chip card reader for telephone, in glove compartment
- **T4xl**: 4-pin connector, black
- **T20e**: 20-pin connector
- **T54**: 54-pin connector
- **370**: Earth connection 5, 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
- *: Only models with preparation for mobile telephone (Premium)
- *2: Pre-wired component

**Legend**

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

https://www.automotive-manuals.net/
Multifunction steering wheel

From November 2010
Airbag coil connector and return ring with slip ring, Horn plate, Airbag control unit, Multifunction steering wheel control unit, Steering column electronics control unit, Driver side airbag igniter, Driver side airbag igniter 2

- **F138**: Airbag coil connector and return ring with slip ring
- **H**: Horn plate
- **J234**: Airbag control unit
- **J453**: Multifunction steering wheel control unit
- **J527**: Steering column electronics control unit
- **J533**: Data bus diagnostic interface
- **N95**: Driver side airbag igniter
- **N250**: Driver side airbag igniter 2
- **SB9**: Fuse 9 on fuse holder B
- **SB16**: Fuse 16 on fuse holder B
- **T4ae**: 4-pin connector
- **T6aw**: 6-pin connector
- **T6de**: 6-pin connector
- **T16o**: 16-pin connector
- **T20e**: 20-pin connector
- **T40**: 40-pin connector
- **T100**: 100-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
- **B397**: Connection 1 (convenience CAN bus, high), in main wiring harness
- **B406**: Connection 1 (convenience CAN bus, high), in main wiring harness

* Fuses in E-box, High
*2 Fuses in E-box, Low

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Multifunction buttons on left in steering wheel, Multifunction buttons on right in steering wheel, Tiptronic switch (shift up), Tiptronic switch (shift down), Airbag coil connector and return ring with slip ring, Multifunction steering wheel control unit, Steering column electronics control unit

- E440 Multifunction buttons on left in steering wheel
- E441 Multifunction buttons on right in steering wheel
- E479 Tiptronic switch (shift up)
- E480 Tiptronic switch (shift down)
- F138 Airbag coil connector and return ring with slip ring
- F189 Tiptronic switch
- J453 Multifunction steering wheel control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- T3bj 3-pin connector
- T3ci 3-pin connector
- T6aw 6-pin connector
- T6de 6-pin connector
- T6v 8-pin connector
- T8w 8-pin connector
- T10l 10-pin connector
- T16o 16-pin connector
- 249 Earth connection 2, in interior wiring harness
- 639 Earth point, left A-pillar
- * see applicable current flow diagram for engine
- *2 According to equipment
- *3 Adapter wire

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

https://www.automotive-manuals.net/
Tyre Pressure Monitoring System, (7K3),(7K4)
From November 2010
Current Flow Diagram

Tyre Pressure Monitoring System control unit
J104  ABS control unit
J285  Control unit in dash panel insert
J502  Tyre Pressure Monitoring System control unit, behind rear bumper on right
J533  Data bus diagnostic interface
K220  Tyre Pressure Loss Indicator warning lamp
SC15  Fuse 15 on fuse holder C
T4wb  4-pin connector
T20e  20-pin connector
T32c  32-pin connector
T38  38-pin connector

51  Earth point, on right in luggage compartment
380  Earth connection 15, in main wiring harness
382  Earth connection 17, in main wiring harness
B108  Connection 1 (CAN bus extended high), in main wiring harness
B109  Connection 1 (CAN bus extended low), in main wiring harness
B384  Connection 2 (powertrain CAN bus, high), in main wiring harness
B391  Connection 2 (powertrain CAN bus, low), in main wiring harness
B616  Positive connection 12 (30a), in interior wiring harness

*  Saloon
*2  Estate

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

https://www.automotive-manuals.net/
Switch module 2 in centre console, Tyre Pressure Loss Indicator button, Front left tyre pressure sensor, Front right tyre pressure sensor, Rear left tyre pressure sensor, Rear right tyre pressure sensor, Button illumination bulb

EX30  Switch module 2 in centre console
E492  Tyre Pressure Loss Indicator button
G222  Front left tyre pressure sensor
G223  Front right tyre pressure sensor
G224  Rear left tyre pressure sensor
G225  Rear right tyre pressure sensor
J104  ABS control unit
J519  Onboard supply control unit
L76   Button illumination bulb
T26i  26-pin connector
T38   38-pin connector
T52b  52-pin connector, white

397   Earth connection 32, in main wiring harness
687   Earth point 1, on centre tunnel
B340  Connection 1 (58d), in main wiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Sound system DYNAUDIO, (9VE)
From November 2010
Battery, Data bus diagnostic interface, Amplifier, Fuse 18 on fuse holder B, Fuse 19 on fuse holder B, Terminal 30 wiring junction

- A Battery
- J533 Data bus diagnostic interface
- R12 Amplifier
- SB18 Fuse 18 on fuse holder B
- SB19 Fuse 19 on fuse holder B
- T20e 20-pin connector
- TV2 Terminal 30 wiring junction
- T23 23-pin connector
- T40 40-pin connector

12 Earth point, on left in engine compartment
366 Earth connection 1, in main wiring harness
610 Earth point (audio), front below centre console
B219 Positive connection 4 (30a), in interior wiring harness
B415 Connection 1 (infotainment CAN bus, high), in main wiring harness
B421 Connection 1 (infotainment CAN bus, low), in main wiring harness
* Fuses in E-box, Low
*2 Fuses in E-box, High

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

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, Radio, Amplifier, Front left treble loudspeaker, Front left bass loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker, Front right mid-range loudspeaker

J503  Control unit with display for radio and navigation
R Radio
R12 Amplifier
R20 Front left treble loudspeaker
R21 Front left bass loudspeaker
R22 Front right treble loudspeaker
R23 Front right bass loudspeaker
R103 Front left mid-range loudspeaker
R104 Front right mid-range loudspeaker
T2dv 2-pin connector
T2dw 2-pin connector
T4as 4-pin connector
T4at 4-pin connector
T16c 16-pin connector
T23 23-pin connector
T24 24-pin connector
T28 28-pin connector, on lower section of right A-pillar
T28c 28-pin connector, on lower section of left A-pillar

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

https://www.automotive-manuals.net/
Amplifier, Rear left treble loudspeaker, Rear left bass loudspeaker, Rear right treble loudspeaker, Rear right bass loudspeaker

R12 Amplifier
R14 Rear left treble loudspeaker
R15 Rear left bass loudspeaker
R16 Rear right treble loudspeaker
R17 Rear right bass loudspeaker
T2dk 2-pin connector
T2do 2-pin connector
T4ai 4-pin connector
T4am 4-pin connector
T6bx 6-pin connector
T6by 6-pin connector
T24 24-pin connector
T28a 28-pin connector, on left B-pillar
T28b 28-pin connector, on right B-pillar

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

https://www.automotive-manuals.net/
"Volkswagen Sound" sound system, (9VQ)
From November 2010
Battery, Data bus diagnostic interface, Digital sound package amplifier, Fuse 18 on fuse holder B, Fuse 19 on fuse holder B, Terminal 30 wiring junction

- **A** Battery
- **J533** Data bus diagnostic interface
- **R184** Digital sound package amplifier
- **SB18** Fuse 18 on fuse holder B
- **SB19** Fuse 19 on fuse holder B
- **T20e** 20-pin connector
- **T38a** 38-pin connector
- **TV2** Terminal 30 wiring junction
- **T40** 40-pin connector
- **12** Earth point, on left in engine compartment
- **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
- * Fuses in E-box, Low
- *2 Fuses in E-box, High

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

Passat

Current Flow Diagram

No. 53 / 2

https://www.automotive-manuals.net/
Control unit with display for radio and navigation, Radio, Front left treble loudspeaker, Front left bass loudspeaker, Front right treble loudspeaker, Front right bass loudspeaker, Front right mid-range loudspeaker, Digital sound package amplifier

J503  Control unit with display for radio and navigation
R  Radio
R20  Front left treble loudspeaker
R21  Front left bass loudspeaker
R22  Front right treble loudspeaker
R23  Front right bass loudspeaker
R103  Front left mid-range loudspeaker
R104  Front right mid-range loudspeaker
R184  Digital sound package amplifier
T2dv  2-pin connector
T2dw  2-pin connector
T4as  4-pin connector
T4at  4-pin connector
T16c  16-pin connector
T28  28-pin connector, on lower section of right A-pillar
T28c  28-pin connector, on lower section of left A-pillar
T38a  38-pin connector

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Rear left loudspeaker, Rear right loudspeaker, Digital sound package amplifier

- R4  Rear left loudspeaker
- R5  Rear right loudspeaker
- R184 Digital sound package amplifier
- T4ai 4-pin connector
- T4am 4-pin connector
- T28a 28-pin connector, on left B-pillar
- T28b 28-pin connector, on right B-pillar
- T38a 38-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gs = yellow
or = orange
rs = pink
CAN and LIN bus networking, powertrain CAN, diagnosis CAN, dash panel CAN, convenience CAN

From November 2010
Data bus diagnostic interface, Diagnostic connection

- J234: Airbag control unit
- J533: Data bus diagnostic interface
- J743: Mechatronic unit for dual clutch gearbox
- SC4: Fuse 4 on fuse holder C
- SC7: Fuse 7 on fuse holder C
- SC13: Fuse 13 on fuse holder C
- SB15: Fuse 15 on fuse holder B
- SB24: Fuse 24 on fuse holder B
- T16d: 16-pin connector
- T20e: 20-pin connector
- T20m: 20-pin connector
- T25: 25-pin connector
- T40: 40-pin connector
- T100: 100-pin connector
- T100a: 100-pin connector
- U31: Diagnostic connection

- 400: Earth connection 35, in main wiring harness
- 639: Earth point, left A-pillar
- B277: Positive connection 1 (15a) in main wiring harness
- B331: Positive connection 17 (30a) 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 Only models with rear side airbag
*4 Fuses in E-box, Low
*5 Fuses in E-box, High

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Data bus diagnostic interface

CX1  Alternator with voltage regulator
J245  Sliding sunroof adjustment control unit
J285  Control unit in dash panel insert
J367  Battery monitor control unit
J394  Sunroof roller blind control unit
J533  Data bus diagnostic interface
K    Dash panel insert
T2dg  2-pin connector
T2fj  2-pin connector
T4a   4-pin connector
T6ah  6-pin connector
T16   16-pin connector
T16q  16-pin connector
T20e  20-pin connector
T32c  32-pin connector
Y    Analogue clock

*B698 Connection 3 (LIN bus) in main wiring harness
*B699 Connection 4 (LIN bus) in main wiring harness
*B710 Connection 5 (LIN bus) in main wiring harness
* Only models with start/stop system

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

https://www.automotive-manuals.net/
Tyre Pressure Monitoring System control unit, Connection 1 (CAN bus extended high), in main wiring harness, Connection 1 (CAN bus extended low), in main wiring harness, Connection 1 (LIN bus) in main wiring harness

- G397 Rain and light sensor
- J400 Wiper motor control unit
- J428 Adaptive cruise control unit
- J431 Headlight range control unit
- J502 Tyre Pressure Monitoring System control unit
- J519 Onboard supply control unit
- R242 Front camera for driver assist systems
- T3ah 3-pin connector
- T4ak 4-pin connector
- T4wb 4-pin connector
- T10a 10-pin connector
- T10aq 10-pin connector
- T10y 10-pin connector
- T26 26-pin connector
- T52b 52-pin connector

*B108 Connection 1 (CAN bus extended high), in main wiring harness
*B109 Connection 1 (CAN bus extended low), in main wiring harness
*B528 Connection 1 (LIN bus) in main wiring harness

* From November 2013

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Connection 1 (convenience CAN bus, high), in main wiring harness, Connection 1 (convenience CAN bus, low), in main wiring harness, Connection 2 (LIN bus) in main wiring harness, LIN bus connection, in roof wiring harness

G303 Interior monitor send and receive module 1  
H12 Alarm horn  
J255 Climatronic control unit  
J301 Air conditioning system control unit  
J345 Trailer detector control unit  
J393 Convenience system control unit  
J519 Onboard supply control unit  
T2lo 2-pin connector  
T3r 3-pin connector  
T4af 4-pin connector  
T6ao 6-pin connector  
T10e 10-pin connector  
T12g 12-pin connector  
T18a 18-pin connector  
T20b 20-pin connector  
T20c 20-pin connector  
T52c 52-pin connector

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

LIN bus connection, in roof wiring harness

* Only models with Climatronic  
*2 Only models with air conditioning system  
*3 Only models with preparation for trailer coupling  
*4 Flat conductor

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
l = purple  
vi = purple  
ge = yellow  
or = orange  
rs = pink
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
- J527  Steering column electronics control unit
- J605  Rear lid control unit
- J810  Driver seat adjustment control unit
- J926  Rear driver side door control unit
- J927  Rear passenger side door control unit
- T8e   8-pin connector
- T10c  10-pin connector
- T16o  16-pin connector
- T20g  20-pin connector
- T20h  20-pin connector
- T20k  20-pin connector
- T20l  20-pin connector
- T28c  28-pin connector
- T28a  28-pin connector
- T28b  28-pin connector
- T28c  28-pin connector
- T32f  32-pin connector

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
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
g = yellow
or = orange
rs = pink
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
- J250 Electronically controlled damping control unit
- J540 Control unit for electromechanical parking brake
- J743 Mechatronic unit for dual clutch gearbox
- T20m 20-pin connector
- T25 25-pin connector
- T30 30-pin connector
- T38a 38-pin connector
- T47a 47-pin connector
- T100 100-pin connector
- T100a 100-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 dual clutch gearbox 02E
*2 Only models with dual clutch gearbox 0AM
*3 Only models with rear side airbag

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

Current Flow Diagram
No. 54 / 7
https://www.automotive-manuals.net/
Connection 1 (infotainment CAN bus, high), in main wiring harness, Connection 1 (infotainment CAN bus, low), in main wiring harness

- J412: Mobile telephone operating electronics control unit
- J503: Control unit with display for radio and navigation
- R: Radio
- R12: Amplifier
- R78: TV tuner
- R184: Digital sound package amplifier
- R212: Camera for night vision system
- T12y: 12-pin connector
- T16c: 16-pin connector
- T20i: 20-pin connector
- T23: 23-pin connector
- T38a: 38-pin connector
- T54: 54-pin connector

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

https://www.automotive-manuals.net/
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
J772 Reversing camera system control unit
T8ai 8-pin connector
T54b 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

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
 gn = green  
bl = blue  
gr = grey  
li = purple  
vii = purple  
ge = yellow  
or = orange  
rs = pink
Fuse assignment for E-box, High
From November 2010
Battery, Starter, Suppression filter, Battery monitor control unit, Fuse 1 in fuse holder F, Fuse 2 in fuse holder F, Fuse 3 in fuse holder F, Fuse 4 in fuse holder F, Terminal 30 wiring junction

- **A** Battery
- **B** Starter
- **C24** Suppression filter
- **J234** Airbag control unit
- **J367** Battery monitor control unit
- **J519** Onboard supply control unit
- **N253** Battery isolation igniter
- **SF1** Fuse 1 in fuse holder F
- **SF2** Fuse 2 in fuse holder F
- **SF3** Fuse 3 in fuse holder F
- **SF4** Fuse 4 in fuse holder F
- **T1v** Single connector
- **T2dp** 2-pin connector
- **T2fj** 2-pin connector
- **T2fp** 2-pin connector
- **T52a** 52-pin connector
- **T100a** 100-pin connector
- **TV2** Terminal 30 wiring junction

**Legend:**
- **Earth point, on left in engine compartment**
- **Earth point 2, on left in luggage compartment**
- **Positive connection 24 (30a) in main wiring harness**
- **Positive connection (30), in battery wiring harness**

- Only models with energy recovery
- Only models with no start/stop system

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

**Links:**
https://www.automotive-manuals.net/
Fuse 1 in fuse holder A, Fuse 2 in fuse holder A, Fuse 3 in fuse holder A, Fuse 4 in fuse holder A, Fuse 5 in fuse holder A

CX1 Alternator with voltage regulator
J293 Radiator fan control unit
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
SA4 Fuse 4 in fuse holder A
SA5 Fuse 5 in fuse holder A
T2gd 2-pin connector
T4a 4-pin connector, near starter
T4i 4-pin connector, on lock carrier
T12g 12-pin connector
T20e 20-pin connector

502 Threaded connection 1 (30a) on relay plate
509 Threaded connection 1 (29), on E-box
512 Threaded connection 2 (30a) on relay plate
513 Threaded connection 3 (30a) on relay plate
514 Threaded connection 4 (30a) on relay plate
515 Threaded connection 5 (30a) on relay plate
B699 Connection 4 (LIN bus) in main wiring harness

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

https://www.automotive-manuals.net/
Fuse 1 on fuse holder B, Fuse 2 on fuse holder B, Fuse 3 on fuse holder B, Fuse 4 on fuse holder B, Fuse 6 in fuse holder A, Fuse 7 in fuse holder A

- J104 ABS control unit
- J345 Trailer detector control unit
- J743 Mechatronic unit for dual clutch gearbox
- SB1 Fuse 1 on fuse holder B
- SB2 Fuse 2 on fuse holder B
- SB3 Fuse 3 on fuse holder B
- SB4 Fuse 4 on fuse holder B
- SA6 Fuse 6 in fuse holder A
- SA7 Fuse 7 in fuse holder A
- T12g 12-pin connector
- T20m 20-pin connector
- T38 38-pin connector
- T40 40-pin connector

- 516 Threaded connection 6 (30a) on relay plate
- 517 Threaded connection 7 (30a) on relay plate
- B328 Positive connection 14 (30a) in main wiring harness

* Only models with dual clutch gearbox 02E

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Main relay, Fuse 5 on fuse holder B, Fuse 6 on fuse holder B, Fuse 7 on fuse holder B

- J4 Dual tone horn relay
- J271 Main relay
- N70 Ignition coil 1 with output stage
- N127 Ignition coil 2 with output stage
- N276 Fuel pressure regulating valve
- N291 Ignition coil 3 with output stage
- N292 Ignition coil 4 with output stage
- N323 Ignition coil 5 with output stage
- N324 Ignition coil 6 with output stage
- SB5 Fuse 5 on fuse holder B
- SB6 Fuse 6 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- T4cm 4-pin connector
- T4cn 4-pin connector
- T4co 4-pin connector
- T4cp 4-pin connector
- T4cw 4-pin connector
- T4cx 4-pin connector
- T14a 14-pin connector, on left in engine compartment
- T26a 26-pin connector
- T40 40-pin connector

- 508 Threaded connection (30) on E-box
- D180 Connection (87a), in engine compartment wiring harness
- D189 Connection (87a) in engine prewiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 8 on fuse holder B, Fuse 9 on fuse holder B, Fuse 10 on fuse holder B, Fuse 11 on fuse holder B

- F: Brake light switch
- J623: Engine control unit
- N80: Activated charcoal filter solenoid valve 1
- N205: Camshaft control valve 1
- N318: Exhaust camshaft control valve 1
- SB8: Fuse 8 on fuse holder B
- SB9: Fuse 9 on fuse holder B
- SB10: Fuse 10 on fuse holder B
- SB11: Fuse 11 on fuse holder B
- T4f: 4-pin connector
- T4r: 4-pin connector
- T4u: 4-pin connector
- T14a: 14-pin connector, on left in engine compartment
- T26a: 26-pin connector
- T40: 40-pin connector
- T94: 94-pin connector
- Z29: Lambda probe 1 heater after catalytic converter
- Z30: Lambda probe 2 heater after catalytic converter

- B354: Positive connection 5 (87a) in main wiring harness
- B355: Positive connection 6 (87a) in main wiring harness
- B362: Positive connection 13 (87a) in main wiring harness
- D181: Connection 2 (87a) in engine compartment wiring harness

* Only models with 6-cylinder engine

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

https://www.automotive-manuals.net/
Fuse 12 on fuse holder B, Fuse 13 on fuse holder B, Fuse 14 on fuse holder B

- SB12  Fuse 12 on fuse holder B
- SB13  Fuse 13 on fuse holder B
- SB14  Fuse 14 on fuse holder B
- T6w  6-pin connector
- T6z  6-pin connector
- T26a 26-pin connector
- TV23 Push-in bridge
- Z19 Lambda probe heater
- Z28 Lambda probe heater 2
- B357 Positive connection 8 (87a) in main wiring harness

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

Passat Current Flow Diagram

No. 55 / 7

https://www.automotive-manuals.net/
Continued coolant circulation relay, Fuse 27 on fuse holder B, Fuse 28 on fuse holder B, Fuse 29 on fuse holder B, Fuse 38 on fuse holder B, Fuse 39 on fuse holder B, Fuse 40 on fuse holder B, Fuse 41 on fuse holder B, Fuse 43 on fuse holder B, Continued coolant circulation pump

J151 Continued coolant circulation relay
SB15 Fuse 15 on fuse holder B
SB27 Fuse 27 on fuse holder B
SB28 Fuse 28 on fuse holder B
SB29 Fuse 29 on fuse holder B
SB38 Fuse 38 on fuse holder B
SB39 Fuse 39 on fuse holder B
SB40 Fuse 40 on fuse holder B
SB41 Fuse 41 on fuse holder B
SB43 Fuse 43 on fuse holder B
T14a 14-pin connector
T26a 26-pin connector
T40 40-pin connector
V51 Continued coolant circulation pump

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

https://www.automotive-manuals.net/
Fuse 18 on fuse holder B, Fuse 19 on fuse holder B

- J503  Control unit with display for radio and navigation
- R  Radio
- R12  Amplifier
- R184  Digital sound package amplifier
- SB18  Fuse 18 on fuse holder B
- SB19  Fuse 19 on fuse holder B
- T16c  16-pin connector
- T23  23-pin connector
- T38a  38-pin connector
- T40  40-pin connector

**B151**  Positive connection 3 (30a), in interior wiring harness

**B219**  Positive connection 4 (30a), in interior wiring harness

- *  Only models with 12-channel sound system
- *2  Only models with 8-channel sound system
- *3  Only models with navigation system
- *4  Only models with radio
- *5  Only models with start/stop system
- *6  Only models with no start/stop system

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<th>rd</th>
<th>br</th>
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<td>yellow</td>
<td>orange</td>
<td>pink</td>
</tr>
</tbody>
</table>

https://www.automotive-manuals.net/
Fuse 16 on fuse holder B, Fuse 17 on fuse holder B, Fuse 20 on fuse holder B, Fuse 21 on fuse holder B, Fuse 22 on fuse holder B, Fuse 23 on fuse holder B, Fuse 24 on fuse holder B

- J285 Control unit in dash panel insert
- J412 Mobile telephone operating electronics control unit
- J527 Steering column electronics control unit
- R78 TV tuner
- SB16 Fuse 16 on fuse holder B
- SB17 Fuse 17 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB21 Fuse 21 on fuse holder B
- SB22 Fuse 22 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T16o 16-pin connector
- T20i 20-pin connector
- T32c 32-pin connector
- T40 40-pin connector
- T54 54-pin connector
- Y Analogue clock

Positive connection 2 (30a), in interior wiring harness

* Only models with no start/stop system
*2 Only models with start/stop system
Fuse 25 on fuse holder B, Fuse 26 on fuse holder B, Fuse 30 on fuse holder B, Fuse 31 on fuse holder B, Fuse 32 on fuse holder B, Fuse 33 on fuse holder B, Fuse 34 on fuse holder B, Fuse 35 on fuse holder B

J364 Auxiliary heater control unit
J400 Wiper motor control unit
J485 Auxiliary heater operation relay
J623 Engine control unit
SB25 Fuse 25 on fuse holder B
SB26 Fuse 26 on fuse holder B
SB30 Fuse 30 on fuse holder B
SB31 Fuse 31 on fuse holder B
SB32 Fuse 32 on fuse holder B
SB33 Fuse 33 on fuse holder B
SB34 Fuse 34 on fuse holder B
SB35 Fuse 35 on fuse holder B
T2cn 2-pin connector
T4k 4-pin connector
T26a 26-pin connector
T40 40-pin connector
T94 94-pin connector

B325 Positive connection 11 (30a) in main wiring harness
* Only models with 6-cylinder engine
*2 Only models with auxiliary coolant heater

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Fuse 36 on fuse holder B, Fuse 37 on fuse holder B, Fuse 47 on fuse holder B, Fuse 48 on fuse holder B, Fuse 49 on fuse holder B, Fuse 52 on fuse holder B, Fuse 53 on fuse holder B

J47 Heated windscreen relay
J519 Onboard supply control unit
SB36 Fuse 36 on fuse holder B
SB37 Fuse 37 on fuse holder B
SB47 Fuse 47 on fuse holder B
SB48 Fuse 48 on fuse holder B
SB49 Fuse 49 on fuse holder B
SB52 Fuse 52 on fuse holder B
SB53 Fuse 53 on fuse holder B
T40 40-pin connector
T52a 52-pin connector
T52c 52-pin connector

249 Earth connection 2, in interior wiring harness
511 Threaded connection 2 (30), on E-box
639 Earth point, left A-pillar
* gradual introduction

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vl = purple
ge = yellow
or = orange
rs = pink
Terminal 15 voltage supply relay, Fuse 1 on fuse holder C

- E128 Heated rear left seat switch with regulator
- E129 Heated rear right seat switch with regulator
- E655 Seat ventilation switch
- G65 High-pressure sender
- G238 Air quality sensor
- G266 Oil level and oil temperature sender
- J13 Fresh air blower relay
- J329 Terminal 15 voltage supply relay
- SC1 Fuse 1 on fuse holder C
- T3ae 3-pin connector
- T3aj 3-pin connector
- T3bu 3-pin connector
- T3dh 3-pin connector
- T4vn 4-pin connector
- T6aj 6-pin connector
- T6dd 6-pin connector
- T6e 6-pin connector, front left in engine compartment
- T6t 6-pin connector
- T10c 10-pin connector, under driver seat
- U13 DC/AC converter with socket, 12 V - 230 V
- Y7 Automatic anti-dazzle interior mirror

- 249 Earth connection 2, in interior wiring harness
- B163 Positive connection 1 (15), in interior wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B571 Connection 38, in main wiring harness

* Only models with auxiliary heating
*2 Only models with Climatronic
*3 Only models with extended servicing intervals (ESI)
*4 Only models with start/stop system

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- fl = blue
- ge = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

https://www.automotive-manuals.net/
Terminal 50 voltage supply relay, Voltage supply relay 2, Fuse 2 on fuse holder C

- E1  Light switch
- E256  TCS and ESP button
- E540  Auto-hold button
- J104  ABS control unit
- J500  Power steering control unit
- J540  Control unit for electromechanical parking brake
- J682  Terminal 50 voltage supply relay
- K213  Electromechanical parking brake warning lamp
- SC2  Fuse 2 on fuse holder C
- T3dt  3-pin connector
- T6e  6-pin connector
- T10j  10-pin connector
- T26h  26-pin connector
- T30  30-pin connector
- T38  38-pin connector
- B287  Positive connection 11 (15a) in main wiring harness
- B571  Connection 38, in main wiring harness
- *  Only models with manual gearbox and Auto Hold function
- *2  Only models with no start/stop system

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Current Flow Diagram

No. 55 / 14

https://www.automotive-manuals.net/
Fuse 3 on fuse holder C

- J16: Current supply relay
- N79: Heater element for crankcase breather
- N366: Gas injection valve 1
- N367: Gas injection valve 2
- N368: Gas injection valve 3
- N369: Gas injection valve 4
- SC3: Fuse 3 on fuse holder C
- T14a: 14-pin connector, on left in engine compartment

(D176): Connection (gas injector), in engine compartment wiring harness

- * Only models with diesel engine
- *2: see applicable current flow diagram for engine
- *3: Only models with natural gas engine
- *4: Only models with 6-cylinder engine

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 4 on fuse holder C

- E149 Rear roller blind switch
- J250 Electronically controlled damping control unit
- J345 Trailer detector control unit
- J428 Adaptive cruise control unit
- J431 Headlight range control unit
- J446 Parking aid control unit
- J791 Park assist steering control unit
- K259 Start/Stop operation warning lamp
- R242 Front camera for driver assist systems

- SC4 Fuse 4 on fuse holder C
- T10a 10-pin connector, in front bumper on left
- T10aq 10-pin connector
- T10y 10-pin connector
- T12g 12-pin connector
- T16 16-pin connector
- T16d 16-pin connector, on diagnostic connection
- T26 26-pin connector
- T26i 26-pin connector
- T47a 47-pin connector

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

* Diagnostic connection
*2 Only models with start/stop system
*3 Only models with park assist steering
*4 Only vehicles with electric rear roller blind
*5 Headlight with gas discharge light

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

https://www.automotive-manuals.net/
Fuse 5 on fuse holder C, Fuse 6 on fuse holder C, Fuse 7 on fuse holder C

- E102: Headlight range control regulator
- J285: Control unit in dash panel insert
- J492: All-wheel drive control unit
- J533: Data bus diagnostic interface
- MX1: Front left headlight
- SC5: Fuse 5 on fuse holder C
- SC6: Fuse 6 on fuse holder C
- SC7: Fuse 7 on fuse holder C
- T6ah: 6-pin connector
- T8g: 8-pin connector
- T8z: 8-pin connector
- T10b: 10-pin connector
- T10q: 10-pin connector
- T14d: 14-pin connector
- T20a: 20-pin connector
- T32c: 32-pin connector
- V48: Left headlight range control motor
- V49: Right headlight range control motor

- B282: Positive connection 6 (15a) in main wiring harness

* Only models with all-wheel drive
*2 Headlight with gas discharge light

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 8 on fuse holder C, Fuse 9 on fuse holder C

- **J234**: Airbag control unit
- **J706**: Seat occupied recognition control unit
- **K145**: Front passenger side airbag deactivated warning lamp
- **MX2**: Front right headlight
- **SC8**: Fuse 8 on fuse holder C
- **SC9**: Fuse 9 on fuse holder C
- **T10b**: 10-pin connector
- **T14e**: 14-pin connector
- **T18f**: 18-pin connector
- **T100**: 100-pin connector

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

* **J234**: Headlight with gas discharge light

* **J234** Only models with key operated switch to deactivate front passenger airbag

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**Legend**

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Fuse 10 on fuse holder C, Fuse 11 on fuse holder C

- G70  Air mass meter
- J532  Voltage stabiliser
- J538  Fuel pump control unit
- J623  Engine control unit
- J906  Starter relay 1
- J907  Starter relay 2
- SC10  Fuse 10 on fuse holder C
- SC11  Fuse 11 on fuse holder C
- T10p  10-pin connector
- T94   94-pin connector

- B290  Positive connection 14 (15a) in main wiring harness
- *  see applicable current flow diagram for engine
- *2  Only models with start/stop system
- *3  Only models with petrol engine
- *4  Only applicable to special vehicles

**Note:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 12 on fuse holder C, Fuse 13 on fuse holder C, Fuse 14 on fuse holder C

E1  Light switch
E313  Selector lever
G303  Interior monitor send and receive module 1
H12  Alarm horn
J104  ABS control unit
J393  Convenience system central control unit
K139  Handbrake warning lamp
SC12  Fuse 12 on fuse holder C
SC13  Fuse 13 on fuse holder C
SC14  Fuse 14 on fuse holder C
T3r  3-pin connector
T4af  4-pin connector
T10e  10-pin connector, in roof
T10j  10-pin connector
T16d  16-pin connector, on diagnostic connection
T18a  18-pin connector
T26h  26-pin connector
T38  38-pin connector

B250  Positive connection, in roof wiring harness
B330  Positive connection 16 (30a) in main wiring harness
B331  Positive connection 17 (30a) in main wiring harness
S4  Positive connection (30) 2, in central locking wiring harness

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

https://www.automotive-manuals.net/
Fuse 15 on fuse holder C

- G397 Rain and light sensor
- J9 Heated rear window relay
- J47 Heated windscreen relay
- J255 Climatronic control unit
- J301 Air conditioning system control unit
- J502 Tyre Pressure Monitoring System control unit
- J772 Reversing camera system control unit
- J942 Control unit for terminal control and engine start
- R149 Remote control receiver for auxiliary coolant heater

SC15 Fuse 15 on fuse holder C

- T3ah 3-pin connector
- T4wb 4-pin connector
- T6i 6-pin connector
- T20b 20-pin connector
- T20c 20-pin connector
- T32g 32-pin connector
- T54b 54-pin connector

Positive connection 12 (30a), in interior wiring harness

- * Only models with air conditioning system
- *2 Only models with Climatronic
- *3 Only models with start/stop system
- *4 Only models with reversing camera system
- *5 Only models with remote controlled auxiliary coolant heater
- *6 Only models with Tyre Pressure Monitoring System

Legend:

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Fuse 16 on fuse holder C, Fuse 17 on fuse holder C, Fuse 18 on fuse holder C

- **D9** Electronic ignition lock
- **J519** Onboard supply control unit
- **J532** Voltage stabiliser
- **J623** Engine control unit
- **J764** Control unit for electronic steering column lock
- **J907** Starter relay 2
- **J942** Control unit for terminal control and engine start
- **SC16** Fuse 16 on fuse holder C
- **SC17** Fuse 17 on fuse holder C
- **SC18** Fuse 18 on fuse holder C
- **T10k** 10-pin connector
- **T12ad** 12-pin connector
- **T16f** 16-pin connector
- **T32g** 32-pin connector
- **T52c** 52-pin connector
- **T94** 94-pin connector

- **B239** Positive connection 1 (50), in interior wiring harness
- **B509** Connection 3 (diagnosis), in main wiring harness
- **B557** Positive connection 21 (30a) in main wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system
*3 see applicable current flow diagram for engine

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

**Engine control unit:**
- **J764**

**Control unit for terminal control and engine start:**
- **J907**

**Control unit for electronic steering column lock:**
- **J942**

**Fuse holders:**
- **SC16**, **SC17**, **SC18**

**Connectors:**
Fuse 19 on fuse holder C, Fuse 20 on fuse holder C, Fuse 21 on fuse holder C, Fuse 22 on fuse holder C, Fuse 23 on fuse holder C, Fuse 24 on fuse holder C, Fuse 25 on fuse holder C

J262 Rear roller blind control unit
J345 Trailer detector control unit
J540 Control unit for electromechanical parking brake
SC19 Fuse 19 on fuse holder C
SC20 Fuse 20 on fuse holder C
SC21 Fuse 21 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
T41 4-pin connector
T12g 12-pin connector
T30 30-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gi = purple
gi = purple
g = yellow
or = orange
rs = pink
Fuse 26 on fuse holder C, Fuse 27 on fuse holder C

- J17  Fuel pump relay
- J49  Electric fuel pump 2 relay
- J519 Onboard supply control unit
- J538 Fuel pump control unit
- SC26  Fuse 26 on fuse holder C
- SC27  Fuse 27 on fuse holder C
- T10p  10-pin connector
- T52b  52-pin connector

(B317) Positive connection 3 (30a) in main wiring harness

- * Only models with diesel engine
- *2 Only models with auxiliary heating
- *3 Only models with petrol engine

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ws = white  sw = black  ro = red  rt = red  br = brown  gn = green  bl = blue  gr = grey  li = purple  vi = purple  ge = yellow  or = orange  rs = pink
Fuse 29 on fuse holder C, Fuse 30 on fuse holder C, Fuse 31 on fuse holder C

J245  Sliding sunroof adjustment control unit
J786  Heated rear seats control unit
SC29  Fuse 29 on fuse holder C
SC30  Fuse 30 on fuse holder C
SC31  Fuse 31 on fuse holder C
T3aj  3-pin connector
T6ah  6-pin connector
T6ub  6-pin connector
T8l  8-pin connector
T16q  16-pin connector
U13  DC/AC converter with socket, 12 V - 230 V

B320  Positive connection 6 (30a) in main wiring harness
B505  Positive connection 9 (30a), in interior wiring harness
*  Only models with heated rear seats
*2  Saloon
*3  Estate

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

https://www.automotive-manuals.net/
Fuse 32 on fuse holder C, Fuse 33 on fuse holder C, Fuse 34 on fuse holder C

- J9  Heated rear window relay
- J39  Headlight washer system relay
- J774  Heated front seats control unit
- SC32  Fuse 32 on fuse holder C
- SC33  Fuse 33 on fuse holder C
- SC34  Fuse 34 on fuse holder C
- T8ac  8-pin connector
- T10c  10-pin connector, under driver seat
- (B315) Positive connection 1 (30a) in main wiring harness
- (B324) Positive connection 10 (30a) in main wiring harness
- (O4) Positive connection (30as), in seat heating wiring harness
- * Only models with headlight washer system

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ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gen = yellow
or = orange
rs = pink
Fuse 35 on fuse holder C, Fuse 36 on fuse holder C, Fuse 37 on fuse holder C, Fuse 38 on fuse holder C

- E176 Driver seat lumbar support adjustment switch
- J13 Fresh air blower relay
- J126 Fresh air blower control unit
- J301 Air conditioning system control unit
- SC35 Fuse 35 on fuse holder C
- SC36 Fuse 36 on fuse holder C
- SC37 Fuse 37 on fuse holder C
- SC38 Fuse 38 on fuse holder C
- T5r 5-pin connector
- T6cp 6-pin connector
- T8av 8-pin connector
- T10c 10-pin connector, under driver seat
- T10f 10-pin connector
- T25 25-pin connector

- B319 Positive connection 5 (30a) in main wiring harness
  - * Only models with air conditioning system
  - *2 Only models with auxiliary heating
  - *3 Only models with Climatronic
  - *4 gradual introduction
  - *5 According to equipment
  - *6 Only models with adjustable lumbar support
  - *7 Only models with no auxiliary heater function

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

https://www.automotive-manuals.net/
Fuse 39 on fuse holder C, Fuse 40 on fuse holder C

- **E313** Selector lever
- **F4** Reversing light switch
- **J59** X-contact relief relay
- **J519** Onboard supply control unit
- **J743** Mechatronic unit for dual clutch gearbox
- **SC39** Fuse 39 on fuse holder C
- **SC40** Fuse 40 on fuse holder C
- **T4ax** 4-pin connector
- **T10b** 10-pin connector, Coupling point for rear lid
- **T10o** 10-pin connector, under selector lever
- **T20m** 20-pin connector
- **T25** 25-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **V12** Rear window wiper motor

- **B162** Connection (75a), in interior wiring harness
- **B278** Positive connection 2 (15a) in main wiring harness
- **B346** Connection 1 (75), in main wiring harness

* Only models with dual clutch gearbox 0AM
*2 Only models with dual clutch gearbox 02E
*3 Not for models with dual clutch gearbox
*4 Estate
*5 gradual introduction

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

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Fuse 41 on fuse holder C, Fuse 42 on fuse holder C, Fuse 43 on fuse holder C

SC41 Fuse 41 on fuse holder C
SC42 Fuse 42 on fuse holder C
SC43 Fuse 43 on fuse holder C
T3ak 3-pin connector
T3am 3-pin connector
U1 Cigarette lighter
U5 12 V socket
U9 Rear cigarette lighter

B491 Positive connection (75), in interior wiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Fuse 44 on fuse holder C, Fuse 45 on fuse holder C

- J386 Driver door control unit
- J387 Front passenger door control unit
- SC44 Fuse 44 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- T20g 20-pin connector
- T20h 20-pin connector
- T28 28-pin connector, in right A-pillar coupling station
- T28c 28-pin connector, in left A-pillar coupling station

- B329 Positive connection 15 (30a) in main wiring harness
- R10 Positive connection 1 (30), in driver door wiring harness
- R16 Positive connection 1 (30), in front passenger door wiring harness

Current Flow Diagram

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 46 on fuse holder C, Fuse 47 on fuse holder C, Fuse 48 on fuse holder C, Fuse 49 on fuse holder C

**SC46** Fuse 46 on fuse holder C
**SC47** Fuse 47 on fuse holder C
**SC48** Fuse 48 on fuse holder C
**SC49** Fuse 49 on fuse holder C

* B598 Positive connection 11 (30a), in interior wiring harness
  * Only models with start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Fuse 1 on fuse holder D, Fuse 2 on fuse holder D, Fuse 3 on fuse holder D, Fuse 4 on fuse holder D, Fuse 5 on fuse holder D

- J250: Electronically controlled damping control unit
- J394: Sunroof roller blind control unit
- J605: Rear lid control unit
- J756: Rear lid control unit 2
- SD1: Fuse 1 on fuse holder D
- SD2: Fuse 2 on fuse holder D
- SD3: Fuse 3 on fuse holder D
- SD4: Fuse 4 on fuse holder D
- SD5: Fuse 5 on fuse holder D
- T6ah: 6-pin connector
- T8e: 8-pin connector
- T10ah: 10-pin connector
- T16q: 16-pin connector
- T47a: 47-pin connector

Positive connection 9 (30a) in main wiring harness

* Estate

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

https://www.automotive-manuals.net/
Driver seat adjustment thermal fuse 1

- E177  Front passenger seat lumbar support adjustment switch
- E470  Driver seat adjustment operating unit
- E471  Front passenger seat adjustment operating unit
- J810  Driver seat adjustment control unit
- S44  Driver seat adjustment thermal fuse 1
- T6bm 6-pin connector
- T6dd 6-pin connector
- T6dc 6-pin connector
- T10c 10-pin connector
- T10d 10-pin connector
- T12ab 12-pin connector

Connection (driver side seat adjustment), in interior wiring harness

- M1 Positive connection 1 (30), in seat adjustment wiring harness
- M2 Positive connection 2 (30), in seat adjustment wiring harness

* Only models with seat adjustment and memory function
*2 According to equipment
*3 Only models with adjustable lumbar support

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse assignment for E-box, Low
From November 2010
Battery, Battery monitor control unit, Fuse 1 in fuse holder A, Fuse 1 (30)

A Battery
CX1 Alternator with voltage regulator
J367 Battery monitor control unit
J519 Onboard supply control unit
J533 Data bus diagnostic interface
SA1 Fuse 1 in fuse holder A
S204 Fuse 1 (30)
T2fj 2-pin connector
T2gd 2-pin connector
T4a 4-pin connector, near starter
T20e 20-pin connector
T52a 52-pin connector

12 Earth point, on left in engine compartment

502 Threaded connection 1 (30a) on relay plate

507 Threaded connection (30), on battery fuse holder

B684 Positive connection 24 (30a) in main wiring harness

B699 Connection 4 (LIN bus) in main wiring harness

* Only models with energy recovery
*2 According to equipment

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

https://www.automotive-manuals.net/
Starter, Fuse 2 in fuse holder A, Fuse 3 in fuse holder A, Fuse 4 in fuse holder A, Fuse 5 in fuse holder A, Fuse 6 in fuse holder A, Fuse 7 in fuse holder A

- **B** Starter
- **J293** Radiator fan control unit
- **J500** Power steering control unit
- **SA2** Fuse 2 in fuse holder A
- **SA3** Fuse 3 in fuse holder A
- **SA4** Fuse 4 in fuse holder A
- **SA5** Fuse 5 in fuse holder A
- **SA6** Fuse 6 in fuse holder A
- **SA7** Fuse 7 in fuse holder A

**Threaded connections**
- **512** Threaded connection 2 (30a) on relay plate
- **513** Threaded connection 3 (30a) on relay plate
- **514** Threaded connection 4 (30a) on relay plate
- **515** Threaded connection 5 (30a) on relay plate
- **516** Threaded connection 6 (30a) on relay plate
- **517** Threaded connection 7 (30a) on relay plate

- * Only models with petrol engine
- *2 Only models with diesel engine
- *3 Only models with start/stop system

**Connectors**
- **T1v** Single connector
- **T4i** 4-pin connector, on lock carrier
- **T12g** 12-pin connector

**Symbols**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 1 on fuse holder B, Fuse 2 on fuse holder B, Fuse 4 on fuse holder B, Fuse 6 on fuse holder B, Fuse 8 on fuse holder B, Fuse 8 in fuse holder A

- J104: ABS control unit
- J743: Trailer detector control unit
- J345: Mechatronic unit for dual clutch gearbox
- SB1: Fuse 1 on fuse holder B
- SB2: Fuse 2 on fuse holder B
- SB4: Fuse 4 on fuse holder B
- SB6: Fuse 6 on fuse holder B
- SB8: Fuse 8 on fuse holder B
- SA8: Fuse 8 in fuse holder A

Accessories:
- T12g: 12-pin connector
- T20m: 20-pin connector
- T25: 25-pin connector
- T38: 38-pin connector
- T40: 40-pin connector

Threaded connections:
- 519: Threaded connection (30), on flat conductor
- B328: Positive connection 14 (30a) in main wiring harness

Notes:
- *: Only models with dual clutch gearbox 02E
- *2: Only models with dual clutch gearbox 0AM

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

Current Flow Diagram

No. 56 / 4

https://www.automotive-manuals.net/
Main relay, Fuse 3 on fuse holder B, Fuse 5 on fuse holder B, Fuse 9 on fuse holder B, Fuse 13 on fuse holder B

- J4 Dual tone horn relay
- J271 Main relay
- J317 Terminal 30 voltage supply relay
- J527 Steering column electronics control unit
- J623 Engine control unit
- SB3 Fuse 3 on fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB9 Fuse 9 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- T160 16-pin connector
- T40 40-pin connector
- T94 94-pin connector

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

* Wiring colour depends on equipment
*2 Only models with diesel engine
Passat

Current Flow Diagram

No. 56 / 6

Fuse 10 on fuse holder B
N70 Ignition coil 1 with output stage
N127 Ignition coil 2 with output stage
N276 Fuel pressure regulating valve
N290 Fuel metering valve
N291 Ignition coil 3 with output stage
N292 Ignition coil 4 with output stage
SB10 Fuse 10 on fuse holder B
T14a 14-pin connector, on left in engine compartment
T40 40-pin connector

(D111) Connection 9 in engine compartment wiring harness
(D206) Connection 4 (87a) in engine prewiring harness
* Only models with diesel engine
*2 Only models with petrol engine

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

https://www.automotive-manuals.net/
Fuse 14 on fuse holder B, Fuse 16 on fuse holder B

- J151 Continued coolant circulation relay
- J623 Engine control unit
- N75 Charge pressure control solenoid valve
- N345 Exhaust gas recirculation cooler changeover valve
- N421 Magnetic clutch for supercharger
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- T3dl 3-pin connector
- T10ap 10-pin connector, near left headlight
- T14a 14-pin connector, on left in engine compartment
- T40 40-pin connector
- T94 94-pin connector
- V178 Coolant circulation pump 2

- B574 Positive connection 20 (87a) in main wiring harness
- B617 Positive connection 5 (87a), in interior wiring harness
- D182 Connection 3 (87a) in engine compartment wiring harness

* Only models with diesel engine
*2 Only models with petrol engine
*3 Wiring colour depends on equipment
*4 According to equipment

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

https://www.automotive-manuals.net/
Fuse 18 on fuse holder B, Fuse 20 on fuse holder B, Fuse 24 on fuse holder B

F  Brake light switch
G446  Fuel quality sender
G476  Clutch position sender
J359  Low heat output relay
J360  High heat output relay
N276  Fuel pressure regulating valve
N372  High-pressure valve for gas mode
SB18  Fuse 18 on fuse holder B
SB20  Fuse 20 on fuse holder B
SB24  Fuse 24 on fuse holder B
T4f  4-pin connector
T4no  4-pin connector
T5j  5-pin connector
T6ac  6-pin connector
T6w  6-pin connector
T14a  14-pin connector, on left in engine compartment
T40  40-pin connector
Z19  Lambda probe heater
Z29  Lambda probe 1 heater after catalytic converter

B585  Positive connection 2 (87a), in interior wiring harness
D189  Connection (87a) in engine prewiring harness

* Only models with natural gas engine
*2 Cross section depends on equipment
*3 Only models with petrol engine
*4 see applicable current flow diagram for engine
*5 Only models with manual gearbox
*6 Only models with diesel engine

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

https://www.automotive-manuals.net/
Fuse 23 on fuse holder B

- F: Brake light switch
- G70: Air mass meter
- G476: Clutch position sender
- J17: Fuel pump relay
- J179: Automatic glow period 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
- SB23: Fuse 23 on fuse holder B
- T4f: 4-pin connector
- T5j: 5-pin connector
- T14a: 14-pin connector, on left in engine compartment
- T40: 40-pin connector

- B362: Positive connection 13 (87a) in main wiring harness
- B364: Positive connection 15 (87a) in main wiring harness
- D196: Connection 2 (87a) in engine prewiring harness

* Only models with diesel engine
*2 Only models with petrol engine
*3 Only models with manual gearbox
*4 Only models with 2.0l engine

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

https://www.automotive-manuals.net/
Engine component current supply relay, Fuse 28 on fuse holder B, Coolant circulation pump

- J179 Automatic glow period control unit
- J359 Low heat output relay
- J496 Additional coolant pump relay
- J757 Engine component current supply relay
- J908 Relay for gas shut-off valves
- N276 Fuel pressure regulating valve
- N361 Fuel tank shut-off valve 1
- N362 Fuel tank shut-off valve 2
- N363 Fuel tank shut-off valve 3
- SB17 Fuse 17 on fuse holder B
- SB28 Fuse 28 on fuse holder B
- T6uc 6-pin connector
- T14a 14-pin connector
- T14h 14-pin connector
- TV23 Push-in bridge
- T40 40-pin connector
- V50 Coolant circulation pump

* Only models with petrol engine
*2 Only models with diesel engine
*3 Only models with natural gas engine
*4 see applicable current flow diagram for engine
Fuse 11 on fuse holder B, Fuse 12 on fuse holder B, Fuse 15 on fuse holder B

- J285  Control unit in dash panel insert
- J412  Mobile telephone operating electronics control unit
- R78  TV tuner
- SB11 Fuse 11 on fuse holder B
- SB12 Fuse 12 on fuse holder B
- SB15 Fuse 15 on fuse holder B
- T20i 20-pin connector
- T32c 32-pin connector
- T40 40-pin connector
- T54 54-pin connector
- Y  Analogue clock

* Only models with no start/stop system
*2 Only models with start/stop system

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

https://www.automotive-manuals.net/
Fuse 7 on fuse holder B, Fuse 19 on fuse holder B

- J503 Control unit with display for radio and navigation
- R Radio
- R12 Amplifier
- R184 Digital sound package amplifier
- SB7 Fuse 7 on fuse holder B
- SB19 Fuse 19 on fuse holder B
- T16c 16-pin connector
- T23 23-pin connector
- T38a 38-pin connector
- T40 40-pin connector

- B151 Positive connection 3 (30a), in interior wiring harness
- B219 Positive connection 4 (30a), in interior wiring harness

* Only models with 12-channel sound system
*2 Only models with 8-channel sound system
*3 Only models with navigation system
*4 Only models with no start/stop system
*5 Only models with start/stop system
*6 Only models with radio

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Fuse 1 on fuse holder C

- E128 Heated rear left seat switch with regulator
- E129 Heated rear right seat switch with regulator
- E655 Seat ventilation switch
- G65 High-pressure sender
- G238 Air quality sensor
- G266 Oil level and oil temperature sender
- J13 Fresh air blower relay
- J329 Terminal 15 voltage supply relay
- SC1 Fuse 1 on fuse holder C
- T3ae 3-pin connector
- T3aj 3-pin connector
- T3bu 3-pin connector
- T3dh 3-pin connector
- T4vn 4-pin connector
- T6aj 6-pin connector
- T6dd 6-pin connector
- T6e 6-pin connector, front left in engine compartment
- T6t 6-pin connector
- T10c 10-pin connector, under driver seat
- U13 DC/AC converter with socket, 12 V - 230 V
- Y7 Automatic anti-dazzle interior mirror

- 249 Earth connection 2, in interior wiring harness
- B163 Positive connection 1 (15), in interior wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B571 Connection 38, in main wiring harness

- * Only models with auxiliary heating
- *2 Only models with Climatronic
- *3 Only models with extended servicing intervals (ESI)
- *4 Only models with start/stop system

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

https://www.automotive-manuals.net/
Terminal 50 voltage supply relay, Voltage supply relay 2, Fuse 2 on fuse holder C

- **E1** Light switch
- **E256** TCS and ESP button
- **E540** Auto-hold button
- **J104** ABS control unit
- **J500** Power steering control unit
- **J540** Control unit for electromechanical parking brake
- **J682** Terminal 50 voltage supply relay
- **J710** Voltage supply relay 2
- **K213** Electromechanical parking brake warning lamp
- **SC2** Fuse 2 on fuse holder C
- **T3dt** 3-pin connector
- **T6e** 6-pin connector
- **T10j** 10-pin connector
- **T26h** 26-pin connector
- **T30** 30-pin connector
- **T38** 38-pin connector

- **B287** Positive connection 11 (15a) in main wiring harness
- **B571** Connection 38, in main wiring harness

* Only models with manual gearbox and Auto Hold function

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

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https://www.automotive-manuals.net/
Fuse 3 on fuse holder C

J16  Current supply relay
N79   Heater element for crankcase breather
N366  Gas injection valve 1
N367  Gas injection valve 2
N368  Gas injection valve 3
N369  Gas injection valve 4
SC3   Fuse 3 on fuse holder C
T14a  14-pin connector, on left in engine compartment

* Only models with diesel engine
*2 see applicable current flow diagram for engine
*3 Only models with natural gas engine
*4 Only models with 6-cylinder engine

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Fuse 4 on fuse holder C

- E149 Rear roller blind switch
- J250 Electronically controlled damping control unit
- J345 Trailer detector control unit
- J428 Adaptive cruise control unit
- J431 Headlight range control unit
- J446 Parking aid control unit
- J791 Park assist steering control unit
- K259 Start/Stop operation warning lamp
- R242 Front camera for driver assist systems

SC4 Fuse 4 on fuse holder C

- T10a 10-pin connector, in front bumper on left
- T10aq 10-pin connector
- T10y 10-pin connector
- T12g 12-pin connector
- T16 16-pin connector
- T16d 16-pin connector, on diagnostic connection
- T26 26-pin connector
- T26i 26-pin connector
- T47a 47-pin connector

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

* Diagnostic connection
*2 Only models with start/stop system
*3 Only models with park assist steering
*4 Only vehicles with electric rear roller blind
*5 Headlight with gas discharge light

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

Current Flow Diagram

Passat

No. 56 / 17

https://www.automotive-manuals.net/
Fuse 5 on fuse holder C, Fuse 6 on fuse holder C, Fuse 7 on fuse holder C

- E102 Headlight range control regulator
- J285 Control unit in dash panel insert
- J402 All-wheel drive control unit
- J533 Data bus diagnostic interface
- MX1 Front left headlight
- SC5 Fuse 5 on fuse holder C
- SC6 Fuse 6 on fuse holder C
- SC7 Fuse 7 on fuse holder C
- T6df 6-pin connector
- T8g 8-pin connector
- T8z 8-pin connector
- T10b 10-pin connector
- T10q 10-pin connector
- T14d 14-pin connector
- T20a 20-pin connector
- T32c 32-pin connector
- V48 Left headlight range control motor
- V49 Right headlight range control motor

* Only models with all-wheel drive

*2 Headlight with gas discharge light

**B282** Positive connection 6 (15a) in main wiring harness

---

**Current Flow Diagram**

No. 56 / 18

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https://www.automotive-manuals.net/
Fuse 8 on fuse holder C, Fuse 9 on fuse holder C

- J234: Airbag control unit
- J706: Seat occupied recognition control unit
- K145: Front passenger side airbag deactivated warning lamp
- MX2: Front right headlight
- SC8: Fuse 8 on fuse holder C
- SC9: Fuse 9 on fuse holder C
- T10b: 10-pin connector
- T14e: 14-pin connector
- T18f: 18-pin connector
- T100: 100-pin connector

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

* Headlight with gas discharge light
*2 Only models with key operated switch to deactivate front passenger airbag

---

<table>
<thead>
<tr>
<th>239</th>
<th>240</th>
<th>241</th>
<th>242</th>
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<th>245</th>
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<th>248</th>
<th>249</th>
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<th>251</th>
<th>252</th>
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- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

https://www.automotive-manuals.net/
Fuse 10 on fuse holder C, Fuse 11 on fuse holder C

- G70 Air mass meter
- J532 Voltage stabiliser
- J538 Fuel pump control unit
- J623 Engine control unit
- J906 Starter relay 1
- J907 Starter relay 2
- SC10 Fuse 10 on fuse holder C
- SC11 Fuse 11 on fuse holder C
- T10p 10-pin connector
- T94 94-pin connector

(B290) Positive connection 14 (15a) in main wiring harness

- * see applicable current flow diagram for engine
- *2 Only models with start/stop system
- *3 Only models with petrol engine
- *4 Only applicable to special vehicles

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC10</td>
<td>Fuse 10 on fuse holder C</td>
</tr>
<tr>
<td>SC11</td>
<td>Fuse 11 on fuse holder C</td>
</tr>
<tr>
<td>T10p</td>
<td>10-pin connector</td>
</tr>
<tr>
<td>T94</td>
<td>94-pin connector</td>
</tr>
<tr>
<td>J623</td>
<td>Engine control unit</td>
</tr>
<tr>
<td>J532</td>
<td>Voltage stabiliser</td>
</tr>
<tr>
<td>J538</td>
<td>Fuel pump control unit</td>
</tr>
<tr>
<td>J906</td>
<td>Starter relay 1</td>
</tr>
<tr>
<td>J907</td>
<td>Starter relay 2</td>
</tr>
</tbody>
</table>

**Legend**

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Fuse 12 on fuse holder C, Fuse 13 on fuse holder C, Fuse 14 on fuse holder C

- **E1**: Light switch
- **E313**: Selector lever
- **G303**: Interior monitor send and receive module 1
- **H12**: Alarm horn
- **J104**: ABS control unit
- **J393**: Convenience system central control unit
- **K139**: Handbrake warning lamp
- **SC12**: Fuse 12 on fuse holder C
- **SC13**: Fuse 13 on fuse holder C
- **SC14**: Fuse 14 on fuse holder C
- **T3r**: 3-pin connector
- **T4af**: 4-pin connector
- **T10e**: 10-pin connector, in roof
- **T10j**: 10-pin connector
- **T10o**: 10-pin connector, under selector lever
- **T16d**: 16-pin connector, on diagnostic connection
- **T18a**: 18-pin connector
- **T26h**: 26-pin connector
- **T38**: 38-pin connector
- **B250**: Positive connection, in roof wiring harness
- **B330**: Positive connection 16 (30a) in main wiring harness
- **B331**: Positive connection 17 (30a) in main wiring harness
- **S4**: Positive connection (30) 2, in central locking wiring harness

* Diagnostic connection
*2 Flat conductor

---

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

https://www.automotive-manuals.net/
Fuse 15 on fuse holder C

G397 Rain and light sensor
J9 Heated rear window relay
J47 Heated windscreen relay
J255 Climatronic control unit
J301 Air conditioning system control unit
J772 Reversing camera system control unit
J942 Control unit for terminal control and engine start
R149 Remote control receiver for auxiliary coolant heater
SC15 Fuse 15 on fuse holder C
T3ah 3-pin connector
T4wb 4-pin connector
T6i 6-pin connector
T20b 20-pin connector
T20c 20-pin connector
T32g 32-pin connector
T54b 54-pin connector

B616 Positive connection 12 (30a), in interior wiring harness

* Only models with air conditioning system
*2 Only models with Climatronic
*3 Only models with start/stop system
*4 Only models with reversing camera system
*5 Only models with remote controlled auxiliary coolant heater
*6 Only models with Tyre Pressure Monitoring System

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

https://www.automotive-manuals.net/
Fuse 16 on fuse holder C, Fuse 17 on fuse holder C, Fuse 18 on fuse holder C

- D9 Electronic ignition lock
- J519 Onboard supply control unit
- J532 Voltage stabiliser
- J623 Engine control unit
- J764 Control unit for electronic steering column lock
- J907 Starter relay 2
- J942 Control unit for terminal control and engine start
- SC16 Fuse 16 on fuse holder C
- SC17 Fuse 17 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- T10k 10-pin connector
- T12ad 12-pin connector
- T16f 16-pin connector
- T32g 32-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- B239 Positive connection 1 (50), in interior wiring harness
- B509 Connection 3 (diagnosis), in main wiring harness
- B557 Positive connection 21 (30a) in main wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system
*3 see applicable current flow diagram for engine

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

https://www.automotive-manuals.net/
Fuse 19 on fuse holder C, Fuse 20 on fuse holder C, Fuse 21 on fuse holder C, Fuse 22 on fuse holder C, Fuse 23 on fuse holder C, Fuse 24 on fuse holder C, Fuse 25 on fuse holder C

J262 Rear roller blind control unit
J345 Trailer detector control unit
JS40 Control unit for electromechanical parking brake
SC19 Fuse 19 on fuse holder C
SC20 Fuse 20 on fuse holder C
SC21 Fuse 21 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
T41 4-pin connector
T12g 12-pin connector
T30 30-pin connector

Passat
Current Flow Diagram
No. 56 / 24

Fuse 19 on fuse holder C, Fuse 20 on fuse holder C, Fuse 21 on fuse holder C, Fuse 22 on fuse holder C, Fuse 23 on fuse holder C, Fuse 24 on fuse holder C, Fuse 25 on fuse holder C

J262 Rear roller blind control unit
J345 Trailer detector control unit
JS40 Control unit for electromechanical parking brake
SC19 Fuse 19 on fuse holder C
SC20 Fuse 20 on fuse holder C
SC21 Fuse 21 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
T41 4-pin connector
T12g 12-pin connector
T30 30-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Fuse 26 on fuse holder C, Fuse 27 on fuse holder C

- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- J519 Onboard supply control unit
- J538 Fuel pump control unit
- SC26 Fuse 26 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- T10p 10-pin connector
- T52b 52-pin connector

(B317) Positive connection 3 (30a) in main wiring harness

* Only models with diesel engine
*2 Only models with auxiliary heating
*3 Only models with petrol engine

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<table>
<thead>
<tr>
<th>SC26</th>
<th>SC27</th>
<th>SC27</th>
</tr>
</thead>
<tbody>
<tr>
<td>30A</td>
<td>20A</td>
<td>*3</td>
</tr>
</tbody>
</table>

Fuse 26on fuse holder C, Fuse 27 on fuse holder C

T6A 2.5 ws/vi
T2A 2.5 rt/gn
J519
J17
J49 1.5 rt/gn
J49 2 2.5 rt/gn
J538

T52b 10-pin connector
T52b 52-pin connector

B317 Positive connection 3 (30a) in main wiring harness

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

Fuse 28 on fuse holder C
- J926 Rear driver side door control unit
- J927 Rear passenger side door control unit
- SC28 Fuse 28 on fuse holder C
- T20k 20-pin connector
- T20l 20-pin connector
- T28a 28-pin connector, on left B-pillar
- T28b 28-pin connector, on right B-pillar

- B322 Positive connection 8 (30a) in main wiring harness
- R19 Positive connection 1 (30), in rear left door wiring harness
- R23 Positive connection 1 (30), in rear right door wiring harness

Fuse 28 on fuse holder C
- SC28 Fuse 28 on fuse holder C

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

https://www.automotive-manuals.net/
Fuse 29 on fuse holder C, Fuse 30 on fuse holder C, Fuse 31 on fuse holder C

- J245 Sliding sunroof adjustment control unit
- J786 Heated rear seats control unit
- SC29 Fuse 29 on fuse holder C
- SC30 Fuse 30 on fuse holder C
- SC31 Fuse 31 on fuse holder C
- T3aj 3-pin connector
- T6ah 6-pin connector
- T6ub 6-pin connector
- T8l 8-pin connector
- T16q 16-pin connector
- U13 DC/AC converter with socket, 12 V - 230 V

- B320 Positive connection 6 (30A) in main wiring harness
- B505 Positive connection 9 (30A), in interior wiring harness

- * Only models with heated rear seats
- *2 Saloon
- *3 Estate

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

Passat
Current Flow Diagram
No. 56 / 27

https://www.automotive-manuals.net/
Fuse 32 on fuse holder C, Fuse 33 on fuse holder C, Fuse 34 on fuse holder C

- J9 Heated rear window relay
- J39 Headlight washer system relay
- J774 Heated front seats control unit
- SC32 Fuse 32 on fuse holder C
- SC33 Fuse 33 on fuse holder C
- SC34 Fuse 34 on fuse holder C
- T8ac 8-pin connector
- T10c 10-pin connector, under driver seat
- **B315** Positive connection 1 (30a) in main wiring harness
- **B324** Positive connection 10 (30a) in main wiring harness
- **O4** Positive connection (30as), in seat heating wiring harness
  * Only models with headlight washer system

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

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https://www.automotive-manuals.net/
Fuse 35 on fuse holder C, Fuse 36 on fuse holder C, Fuse 37 on fuse holder C, Fuse 38 on fuse holder C

- E176  Driver seat lumbar support adjustment switch
- J13    Fresh air blower relay
- J126   Fresh air blower control unit
- J301   Air conditioning system control unit
- SC35   Fuse 35 on fuse holder C
- SC36   Fuse 36 on fuse holder C
- SC37   Fuse 37 on fuse holder C
- SC38   Fuse 38 on fuse holder C
- T5r    5-pin connector
- T6cp   6-pin connector
- T8av   8-pin connector
- T10c   10-pin connector, under driver seat
- T10f   10-pin connector
- T25    25-pin connector

Positive connection 5 (30a) in main wiring harness

- * Only models with air conditioning system
- *2 Only models with auxiliary heating
- *3 Only models with no auxiliary heater function
- *4 Only models with Climatronic
- *5 gradual introduction
- *6 According to equipment
- *7 Only models with adjustable lumbar support

Passat

Current Flow Diagram

No. 56 / 29

https://www.automotive-manuals.net/
Fuse 39 on fuse holder C, Fuse 40 on fuse holder C

- E313  Selector lever
- F4    Reversing light switch
- J59   X-contact relief relay
- J519  Onboard supply control unit
- J743  Mechatronic unit for dual clutch gearbox
- SC39  Fuse 39 on fuse holder C
- SC40  Fuse 40 on fuse holder C
- T4ax  4-pin connector
- T10b  10-pin connector, in rear left side panel
- T10o  10-pin connector, under selector lever
- T20m  20-pin connector
- T25   25-pin connector
- T52b  52-pin connector
- T52c  52-pin connector
- V12   Rear window wiper motor

- B162  Connection (75a), in interior wiring harness
- B278  Positive connection 2 (15a) in main wiring harness
- B346  Connection 1 (75), in main wiring harness

- * Only models with dual clutch gearbox 0AM
- *2 Only models with dual clutch gearbox 02E
- *3 Not for models with dual clutch gearbox
- *4 gradual introduction
- *5 Estate

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

No. 56 / 30

Passat
Fuse 41 on fuse holder C, Fuse 42 on fuse holder C

SC41  Fuse 41 on fuse holder C
SC42  Fuse 42 on fuse holder C
T3ak  3-pin connector
T3am  3-pin connector
U1    Cigarette lighter
U5    12 V socket
U9    Rear cigarette lighter

B491  Positive connection (75), in interior wiring harness

---

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

---
Fuse 44 on fuse holder C, Fuse 46 on fuse holder C, Fuse 49 on fuse holder C

- J386 Driver door control unit
- J387 Front passenger door control unit
- SC44 Fuse 44 on fuse holder C
- SC46 Fuse 46 on fuse holder C
- SC49 Fuse 49 on fuse holder C
- T20g 20-pin connector
- T20h 20-pin connector
- T28 28-pin connector, in right A-pillar coupling station
- T28c 28-pin connector, in left A-pillar coupling station
- B329 Positive connection 15 (30a) in main wiring harness
- R10 Positive connection 1 (30), in driver door wiring harness
- R16 Positive connection 1 (30), in front passenger door wiring harness

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Second battery, Onboard supply control unit, Second battery charging circuit relay, Fuse 43 on fuse holder C, Fuse 45 on fuse holder C, Fuse 47 on fuse holder C, Fuse 48 on fuse holder C, Fuse 2 (30)

- A1 Second battery
- J485 Auxiliary heater operation relay
- J519 Onboard supply control unit
- J713 Second battery charging circuit relay
- SC43 Fuse 43 on fuse holder C
- SC45 Fuse 45 on fuse holder C
- SC47 Fuse 47 on fuse holder C
- SC48 Fuse 48 on fuse holder C
- S205 Fuse 2 (30)
- T6ae 6-pin connector
- T52c 52-pin connector

- 42 Earth point, next to steering column
- 238 Earth connection 1, in interior wiring harness
- 277 Earth connection 3, in interior wiring harness
- 639 Earth point, left A-pillar
- 676 Earth point 2, on left in luggage compartment
- B111 Positive connection 1 (30a), in interior wiring harness
- B598 Positive connection 11 (30a), in interior wiring harness

* Only models with start/stop system
*2 Only models with second battery

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Fuse 1 on fuse holder D, Fuse 2 on fuse holder D, Fuse 3 on fuse holder D, Fuse 4 on fuse holder D, Fuse 5 on fuse holder D

J250  Electronically controlled damping control unit
J394  Sunroof roller blind control unit
J605  Rear lid control unit
J756  Rear lid control unit 2
SD1  Fuse 1 on fuse holder D
SD2  Fuse 2 on fuse holder D
SD3  Fuse 3 on fuse holder D
SD4  Fuse 4 on fuse holder D
SD5  Fuse 5 on fuse holder D
T6ah  6-pin connector
T8e  8-pin connector
T10ah  10-pin connector
T16q  16-pin connector
T47a  47-pin connector

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

*  Estate

---

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

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Driver seat adjustment thermal fuse 1

- E177 Front passenger seat lumbar support adjustment switch
- E470 Driver seat adjustment operating unit
- E471 Front passenger seat adjustment operating unit
- J810 Driver seat adjustment control unit
- S44 Driver seat adjustment thermal fuse 1
- T6bm 6-pin connector
- T6dc 6-pin connector
- T6dd 6-pin connector
- T10c 10-pin connector, under driver seat
- T10d 10-pin connector
- T12ab 12-pin connector
- B118 Connection (driver side seat adjustment), in interior wiring harness

- M1 Positive connection 1 (30), in seat adjustment wiring harness
- M2 Positive connection 2 (30), in seat adjustment wiring harness

* Only models with seat adjustment and memory function
*2 According to equipment
*3 Only models with adjustable lumbar support

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

Passat
Current Flow Diagram
No. 56 / 35

https://www.automotive-manuals.net/
Driving school equipment
From February 2011
Warning buzzer for pedal switch on front passenger side, Onboard supply control unit, Driving school vehicle footwell illumination

F349 Warning buzzer for pedal switch on front passenger side
J519 Onboard supply control unit
SC11 Fuse 11 on fuse holder C
T3j 3-pin connector
T10ad 10-pin connector
T12c 12-pin connector
T52b 52-pin connector
W56 Driving school vehicle footwell illumination

| 436 | Earth connection 1, in driving school wiring harness |
| 687 | Earth point 1, on centre tunnel |
| B340 | Connection 1 (58d), in main wiring harness |
| B341 | Connection 2 (58d), in main wiring harness |
| B559 | Positive connection 1 (30g) in main wiring harness |

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

Footwell light switch, Warning buzzer switch, Driving school mode relay

- E295  Footwell light switch
- E296  Warning buzzer switch
- J746  Driving school mode relay
- T6ch  6-pin connector
- T6o   6-pin connector
- 436   Earth connection 1, in driving school wiring harness
- B547  Connection 1, in driving school vehicle wiring harness
- B548  Connection (58), in driving school vehicle wiring harness
- B560  Positive connection 1 (30g), in driving school wiring harness
- B667  Connection 2, in driving school vehicle wiring harness

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

https://www.automotive-manuals.net/
Special signal system RTK-7, analogue, with/without video self-surveillance
From March 2011
Operating unit for special signal system, Flashing light 1, blue, Special signal system with light bar and lettering, Special vehicle fuse 18

- E676: Operating unit for special signal system
- L140: Flashing light 1, blue
- L178: Special signal system with light bar and lettering
- S308: Special vehicle fuse 18

Connectors:
- T2xc: 2-pin connector
- T2xd: 2-pin connector
- T4xd: 4-pin connector
- T10ai: 10-pin connector
- T20xb: 20-pin connector

Points:
- 43: Earth point, lower part of right A-pillar
- 440: Earth connection 1, in siren system wiring harness
- X134: Connection 1, in siren system wiring harness
- X139: Positive connection 1 (15a) in siren system wiring harness

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

Current Flow Diagram

No. 58 / 2

https://www.automotive-manuals.net/
Operating unit for special signal system, Power horn 1, Power horn 2, Special signal system with light bar and lettering

- E676: Operating unit for special signal system
- H24: Power horn 1
- H25: Power horn 2
- L178: Special signal system with light bar and lettering
- 2-pin connector: T2xd
- 4-pin connector: T4xg
- 8-pin connector: T8ab
- 10-pin connector: T10ai
- 14-pin connector: T14xa
- 20-pin connector: T20xb
- Connection 3, in siren system wiring harness: X184

Color codes:
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink
Operating unit for special signal system, Special signal system with light bar and lettering

E676 Operating unit for special signal system
L178 Special signal system with light bar and lettering
T8xa 8-pin connector
T8xb 8-pin connector
T16xc 16-pin connector
T18xa 18-pin connector

X186 Connection 5, in siren system wiring harness

Legend:
ws = white
sw = black
ro = red
br = brown
gn = green
li = purple
gf = grey
gs = grey
ge = yellow
or = orange
rs = pink

Current Flow Diagram
https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 58 / 5

Operating unit for special signal system, Flashing light 2, blue, Special signal system with light bar and lettering

E676 Operating unit for special signal system
L141 Flashing light 2, blue
L178 Special signal system with light bar and lettering
T3xa 3-pin connector
T4xd 4-pin connector
T5xa 5-pin connector
T14xa 14-pin connector
T20xb 20-pin connector

43 Earth point, lower part of right A-pillar
441 Earth connection 2, in siren system wiring harness

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

https://www.automotive-manuals.net/
Special vehicle control unit, Right flashing light in rear lid, Left flashing light in rear lid, Surround lighting 1 in rear lid, Surround lighting 2 in rear lid

- E6 Interior light rear switch
- J608 Special vehicle control unit
- M74 Right flashing light in rear lid
- M75 Left flashing light in rear lid
- T2xg 2-pin connector
- T2xh 2-pin connector
- T10h 10-pin connector
- T12xc 12-pin connector
- W43 Rear interior light
- W61 Surround lighting 1 in rear lid
- W62 Surround lighting 2 in rear lid

- 51 Earth point, on right in luggage compartment
- 98 Earth connection, in rear lid wiring harness
- 218 Earth connection 1, in rear lid wiring harness
- 662 Earth point, rear left side panel
- 817 Earth connection 7, in optional equipment wiring harness
- 818 Earth connection 8, in optional equipment wiring harness
- B253 Positive connection 1 (30a, police), in interior wiring harness
- Q22 Connection 1, in rear lid wiring harness
- Q44 Connection 2, in rear lid wiring harness
- X147 Positive connection 6 (30), in optional equipment wiring harness

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

https://www.automotive-manuals.net/
### Current Flow Diagram

#### Left flashing light, Right flashing light

- M47: Left flashing light
- M48: Right flashing light
- T3xa: 3-pin connector
- T3xc: 3-pin connector
- T4xe: 4-pin connector
- T4xf: 4-pin connector

**X89**
- Connection 1 (blue flashing/rotating light), in optional equipment wiring harness
- According to equipment

**X90**
- Connection 2 (blue flashing/rotating light), in optional equipment wiring harness

---

<table>
<thead>
<tr>
<th>71</th>
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<th>83</th>
<th>84</th>
</tr>
</thead>
</table>

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

---

https://www.automotive-manuals.net/
230 V system for special vehicles
From March 2011
Battery, Second battery, Rectifier, Button for emergency start function, Relay for emergency start function

- A Battery
- A1 Second battery
- A26 Rectifier
- E759 Button for emergency start function
- J962 Relay for emergency start function
- S131 Fuse 1
- S132 Fuse 2
- S301 Special vehicle fuse 11, Fuse carrier on right of dash panel
- T2xa 2-pin connector

- 12 Earth point, on left in engine compartment
- 252 Earth connection, in optional equipment wiring harness
- 676 Earth point 2, on left in luggage compartment
- 729 Earth point, on left rear wheel housing
- X78 Connection 1, in optional equipment wiring harness
- X79 Connection 2, in optional equipment wiring harness

* see applicable current flow diagram for special purpose vehicles
12-pin connector, 12-pin connector

T12xa  12-pin connector, in luggage compartment
T12xb  12-pin connector, under centre console

ws  =  white
sw  =  black
ro  =  red
br  =  brown
gn  =  green
bl  =  blue
gf  =  grey
li  =  purple
ge  =  yellow
or  =  orange
rs  =  pink
Battery charger, 230 or 110 Volt/12 Volt, Battery temperature sender, Main relay, Special vehicle fuse 16, Special vehicle fuse 17, Special vehicle fuse 18, 12 V socket 2, 12 V socket 3

- A10: Battery charger, 230 or 110 Volt/12 Volt
- G729: Battery temperature sender
- J271: Main relay
- S306: Special vehicle fuse 16
- S307: Special vehicle fuse 17
- S308: Special vehicle fuse 18
- U18: 12 V socket 2
- U19: 12 V socket 3

- 259: Earth connection 2, in optional equipment wiring harness
- 729: Earth point, on left rear wheel housing
- X130: Connection 3, in optional equipment wiring harness
- X131: Connection 4, in optional equipment wiring harness

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

https://www.automotive-manuals.net/
Current Flow Diagram

Battery charger, 230 or 110 Volt/12 Volt, Battery isolation relay, Fuse 2 (30)

- A10  Battery charger, 230 or 110 Volt/12 Volt
- J7   Battery isolation relay
- S205 Fuse 2 (30)
- S309 Special vehicle fuse 19
- S310 Special vehicle fuse 20
- S311 Special vehicle fuse 21
- S312 Special vehicle fuse 22
- S313 Special vehicle fuse 23
- T17xa 17-pin connector
- 259  Earth connection 2, in optional equipment wiring harness
- X132 Connection 5, in optional equipment wiring harness
- X133 Connection 6, in optional equipment wiring harness
- * Connection for 2-way radio

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

Passat

https://www.automotive-manuals.net/
Starter inhibitor relay, Distribution box

- D9  Electronic ignition lock
- J433  Starter inhibitor relay
- J623  Engine control unit
- T2xb  2-pin connector
- T16f  16-pin connector
- TV24  Distribution box

- 259  Earth connection 2, in optional equipment wiring harness
- 729  Earth point, on left rear wheel housing

* see applicable current flow diagram for engine

ws = white
sw = black
ro = red
br = brown
gn = green
gi = grey
li = purple
gn = yellow
or = orange
rs = pink

[Diagram details]
Current Flow Diagram

220 V automatic personnel protection circuit breaker, Distribution box, Exterior socket, 230 V, 110 V, Interior socket, 230 V, 110 V

K51 Operational readiness warning lamp
S59 220 V automatic personnel protection circuit breaker
TV24 Distribution box
U8 Exterior socket, 230 V, 110 V
U11 Interior socket, 230 V, 110 V

729 Earth point, on left rear wheel housing

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

https://www.automotive-manuals.net/

TV24  Distribution box
U17  Interior socket 2, 230 V, 110 V
U30  Interior socket 3, 230 V, 110 V
U32  Interior socket 4, 230 V, 110 V

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

https://www.automotive-manuals.net/
Special equipment, police
From November 2010
X-contact relief relay, Onboard supply control unit, Fuse holder D

- A Battery
- J59 X-contact relief relay
- J519 Onboard supply control unit
- SD Fuse holder D, Fuse carrier on right of dash panel
- SD16 Fuse 16 on fuse holder D
- SD17 Fuse 17 on fuse holder D
- SD18 Fuse 18 on fuse holder D
- SD19 Fuse 19 on fuse holder D
- SD20 Fuse 20 on fuse holder D
- SD21 Fuse 21 on fuse holder D
- SD22 Fuse 22 on fuse holder D
- SB29 Fuse 29 on fuse holder B
- SB53 Fuse 53 on fuse holder B
- S291 Special vehicle fuse 1

- T10ad 10-pin connector, behind left side trim in luggage compartment
- T40 40-pin connector
- T52b 52-pin connector

- 249 Earth connection 2, in interior wiring harness
- 639 Earth point, left A-pillar
- B319 Positive connection 5 (30a) in main wiring harness
- B346 Connection 1 (75), in main wiring harness

* E-box low
*2 E-box high
*3 Connection for 2-way radio

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

https://www.automotive-manuals.net/
Onboard supply control unit, 12 V socket, 12 V socket 3, Charging station for torch, Charging station 2 for torch, Luggage compartment light

- J519: Onboard supply control unit
- U5: 12 V socket
- U19: 12 V socket 3
- U23: Charging station for torch
- U29: Charging station 2 for torch
- W3: Luggage compartment light

- 61: Earth point, left C-pillar
- 687: Earth point 1, on centre tunnel
- 817: Earth connection 7, in optional equipment wiring harness
- 818: Earth connection 8, in optional equipment wiring harness
- B256: Positive connection (75x, police), in interior wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Treble horn, Bass horn, Dual tone horn relay, Onboard supply control unit

- **H2** Treble horn
- **H7** Bass horn
- **J4** Dual tone horn relay
- **J519** Onboard supply control unit
- **SB** Fuse holder B
- **T1** Single connector
- **T12c** 12-pin connector, on left under dash panel
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

- **279** Earth connection 5, in interior wiring harness
- **371** Earth connection 6, in main wiring harness
- **673** Earth point 3, on front of left longitudinal member
- **685** Earth point 1 at front of right longitudinal member
- **B340** Connection 1 (58d), in main wiring harness
- **B341** Connection 2 (58d), in main wiring harness
- **B465** Connection 1, in main wiring harness

* see applicable current flow diagram for basic equipment

---

**Legend**

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

---

*Source: https://www.automotive-manuals.net/
Onboard supply control unit, Two-way radio loudspeaker

E502 2-way radio loudspeaker volume control 1
E503 2-way radio loudspeaker volume control 2
J519 Onboard supply control unit
R25 Two-way radio loudspeaker
T17xb 17-pin connector, on left C-pillar

* Connection for 2-way radio

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
g = yellow
or = orange
rs = pink
Blocking diode, Onboard supply control unit, Data bus diagnostic interface, Special vehicle control unit

J29 Blocking diode
J519 Onboard supply control unit
J527 Steering column electronics control unit
J533 Data bus diagnostic interface, in left footwell, near centre console
J608 Special vehicle control unit, under driver seat
T2bs 2-pin connector, behind dash panel, centre
T12c 12-pin connector, on left under dash panel
T12po 12-pin connector
T16 16-pin connector
T16po 16-pin connector
T16s 16-pin connector
T20 20-pin connector
T52c 52-pin connector

B135 Connection 1 (15a), in interior wiring harness
B397 Connection 1 (convenience CAN bus, high), in main wiring harness
B406 Connection 1 (convenience CAN bus, low), in main wiring harness
* Connection for 2-way radio

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

Passat
Current Flow Diagram
No. 60 / 6

https://www.automotive-manuals.net/
2-way radio switch, Button for daytime running light switch-off, Special vehicle control unit

- E72: 2-way radio switch
- E652: Button for daytime running light switch-off
- J608: Special vehicle control unit, under driver seat
- L76: Button illumination bulb
- T6va: 6-pin connector
- T6vb: 6-pin connector
- T12po: 12-pin connector
- T16po: 16-pin connector
- T20p: 20-pin connector
- 455: Earth connection 5, in optional equipment wiring harness
- 459: Earth connection 15, in interior wiring harness
- 684: Earth point on front of left side member
- B514: Positive connection 10 (30a), in interior wiring harness
- X54: Positive connection (58), in optional equipment wiring harness
- X116: Positive connection 2 (30), in optional equipment wiring harness

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

Current Flow Diagram

Passat
No. 60 / 7

https://www.automotive-manuals.net/
Ignition bypass button, Special vehicle control unit

- E489 Ignition bypass button
- J608 Special vehicle control unit, under driver seat
- L76 Button illumination bulb
- T2 2-pin connector, under roof trim
- T2br 2-pin connector, in rear lid
- T6vc 6-pin connector
- T12po 12-pin connector
- T16po 16-pin connector
- T20p 20-pin connector

- 459 Earth connection 15, in interior wiring harness
- B253 Positive connection 1 (30a, police), in interior wiring harness
- X54 Positive connection (58), in optional equipment wiring harness
- X116 Positive connection 2 (30), in optional equipment wiring harness

* Connection for rear flashing light

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

Current Flow Diagram

Passat

No. 60 / 8

https://www.automotive-manuals.net/
Special vehicle control unit, Left roof mounted turn signal bulb, Right roof mounted turn signal bulb

E676  Operating unit for special signal system
J608  Special vehicle control unit, under driver seat
M23  Left roof mounted turn signal bulb
M24  Right roof mounted turn signal bulb
T4bz  4-pin connector
T8xe  8-pin connector, behind left side trim in luggage compartment
T12po 12-pin connector
T16po 16-pin connector

W6  Connection (left turn signal), in rear wiring harness
W7  Connection (right turn signal), in rear wiring harness
X146  Connection 8, in optional equipment wiring harness
*  Connection for pressure chamber loudspeaker

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

https://www.automotive-manuals.net/
Operating unit for special signals, Special vehicle control unit

- E507: Operating unit for special signals
- J608: Special vehicle control unit, under driver seat
- T10xc: 10-pin connector, in front centre console
- T12po: 12-pin connector
- T16po: 16-pin connector
- T20p: 20-pin connector

- B517: Positive connection 5 (15a), in interior wiring harness
- X180: Positive connection 5 (30a) in siren system wiring harness
- X187: Connection 6, in siren system wiring harness
- X192: Connection 11, in siren system wiring harness

* Connection for 2-way radio

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

Current Flow Diagram
No. 60 / 10

https://www.automotive-manuals.net/
Accident data recorder button, Tachograph, Accident data memory

- E497: Accident data recorder button
- G24: Tachograph
- J754: Accident data memory, under front passenger seat
- K225: Accident recorder warning lamp
- L76: Button illumination bulb
- T8xf: 8-pin connector, behind dash panel, centre
- T26p: 26-pin connector

- B517: Positive connection 5 (15a), in interior wiring harness
- X192: Connection 11, in siren system wiring harness

**Current Flow Diagram**

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

---

https://www.automotive-manuals.net/
**Accident data memory**

- **E507** Operating unit for special signals
- **J623** Engine control unit
- **J754** Accident data memory, under front passenger seat
- **M16** Left reversing light bulb
- **T2bt** 2-pin connector
- **T3bp** 3-pin connector, behind front bumper on left
- **T4f** 4-pin connector
- **T4y** 4-pin connector
- **T12c** 12-pin connector, on left under dash panel
- **T26p** 26-pin connector

- **453** Earth connection 3, in optional equipment wiring harness
- **B335** Connection 1 (54), in main wiring harness
- **W71** Connection (reversing light), in rear wiring harness
- ***** Connection for front flashing light

---

**Legend**

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

---

[Current Flow Diagram](https://www.automotive-manuals.net/)
Passat

Current Flow Diagram

No. 60 / 13

Accident data memory

- J754: Accident data memory, under front passenger seat
- T12c: 12-pin connector, on left under dash panel
- T26p: 26-pin connector
- B166: Connection (56a), in interior wiring harness
- B247: Connection 2 (56b), in interior wiring harness
- B581: Positive connection (left indicator lamp), in interior wiring harness
- B582: Positive connection (right indicator lamp), interior wiring harness

Current Flow Diagram

- J754
- T12c
- T26p
- B166
- B247
- B581
- B582

Legend:

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

https://www.automotive-manuals.net/
12-pin connector

T12r  12-pin connector, behind centre console
T12s  12-pin connector, in luggage compartment

* Connection for 2-way radio

---

ws = white
sw = black
ro = red
rt = red
br = brown
bn = blue
bl = bluish
bl = blue
ge = grey
li = purple
vi = violet
or = orange
rs = pink

---

Passat
Current Flow Diagram
No. 60 / 14

https://www.automotive-manuals.net/
Taxi equipment
From November 2010
Second battery, Onboard supply control unit, Second battery charging circuit relay

- A1  Second battery
- J519 Onboard supply control unit
- J713 Second battery charging circuit relay
- S55 Two-way radio fuse
- T4xa 4-pin connector
- T52b 52-pin connector

- 440 Earth connection 1, in siren system wiring harness
- 638 Earth point, on right A-pillar
- B340 Connection 1 (58d), in main wiring harness
- X169 Connection 17, in taxi wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Passive Taxi alarm button, Special vehicle control unit

E580 Passive Taxi alarm button
J608 Special vehicle control unit, black
T10c 10-pin connector
T12ta 12-pin connector
T16ta 16-pin connector
T20ta 20-pin connector

465 Earth connection 4, in taxi wiring harness
687 Earth point 1, on centre tunnel
X82 Positive connection 1 (30a), in taxi wiring harness

Current Flow Diagram

No. 61 / 4

https://www.automotive-manuals.net/
**Current Flow Diagram**

**Passat**

No. 61 / 5

---

**Taximeter, Taxi alarm remote control, control unit, Special vehicle control unit, Remote controlled taxi alarm aerial**

- **G41** Taximeter
- **J601** Taxi alarm remote control, control unit
- **J608** Special vehicle control unit, black
- **R107** Remote controlled taxi alarm aerial
- **T8ab** 8-pin connector
- **T8xf** 8-pin connector
- **T12ta** 12-pin connector
- **T20ta** 20-pin connector

- **465** Earth connection 4, in taxi wiring harness
- **X55** Positive connection (15), in optional equipment wiring harness
- **X60** Positive connection (15a), in optional equipment wiring harness
- **X69** Connection 1, in taxi wiring harness
- **X70** Connection 2, in taxi wiring harness
- **X71** Connection 3, in taxi wiring harness
- **X126** Positive connection 2 (30a), in taxi wiring harness
- **X129** Positive connection 1 (15), in taxi wiring harness

---

**Legend**

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Mirror taximeter, Contact in ignition and starter switch for ignition key warning system, Special vehicle control unit, Data transmission control unit

G511 Mirror taximeter
H6 Contact in ignition and starter switch for ignition key warning system
J608 Special vehicle control unit, black
J753 Data transmission control unit
T6ak 6-pin connector
T10xb 10-pin connector
T10xc 10-pin connector
T20ta 20-pin connector
X69 Connection 1, in taxi wiring harness
X70 Connection 2, in taxi wiring harness
X71 Connection 3, in taxi wiring harness
X126 Positive connection 2 (30a), in taxi wiring harness
X129 Positive connection 1 (15), in taxi wiring harness

Current Flow Diagram

No. 61 / 6

Passat

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 61 / 7

Interior light switch (taxi), Taxi sign switch, Special vehicle control unit

- E115  Interior light switch (taxi)
- E138  Taxi sign switch
- J608  Special vehicle control unit, black
- L76   Button illumination bulb
- T6bq  6-pin connector
- T6cb  6-pin connector
- T16ta 16-pin connector
- T20ta 20-pin connector

**Connection symbols:**

- **454**  Earth connection 4, in optional equipment wiring harness
- **X69**  Connection 1, in taxi wiring harness
- **X81**  Connection 4, in taxi wiring harness
- **X154** Connection (58), in taxi wiring harness

* From May 2011

---

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

---

https://www.automotive-manuals.net/
Hands-free system button, Volume control for two-way radio, Special vehicle control unit, Two-way radio, Two-way radio loudspeaker

- E487: Hands-free system button
- E591: Volume control for two-way radio
- J608: Special vehicle control unit, black
- L76: Button illumination bulb
- R8: Two-way radio
- R25: Two-way radio loudspeaker
- T6bs: 6-pin connector
- T16ib: 16-pin connector
- T17xb: 17-pin connector

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

**Current Flow Diagram:**

- E487
- L76: Button illumination bulb
- R8
- T6bs
- T16ib
- T17xb
- X61
- X78
- X154

- 454: Earth connection 4, in optional equipment wiring harness
- X61: Positive connection (30), in optional equipment wiring harness
- X78: Connection 1, in optional equipment wiring harness
- X154: Connection (58), in taxi wiring harness

For more information, visit https://www.automotive-manuals.net/
Current Flow Diagram

Passat

No. 61 / 9

Alarm system off switch, Taxi alarm active button, Special vehicle control unit, Taxi roof sign light bulb

- E217 Alarm system off switch
- E485 Taxi alarm active button
- J608 Special vehicle control unit, black
- L36 Taxi roof sign light bulb
- T6cg 6-pin connector
- T12ta 12-pin connector
- T20ta 20-pin connector
- T28a 28-pin connector

- 252 Earth connection, in optional equipment wiring harness
- 455 Earth connection 5, in optional equipment wiring harness
- 684 Earth point on front of left side member

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

Current Flow Diagram
No. 61 / 9
5.2013
https://www.automotive-manuals.net/
Data bus diagnostic interface, Special vehicle control unit, Dash panel insert

J119 Multifunction indicator
J285 Control unit in dash panel insert
J533 Data bus diagnostic interface
J608 Special vehicle control unit, black
K Dash panel insert
T2hm 2-pin connector
T16tb 16-pin connector
T20e 20-pin connector
T32c 32-pin connector
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
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Lane change assist
From May 2011
Lane change assist control unit
J769 Lane change assist control unit
SC4 Fuse 4 on fuse holder C
T12af 12-pin connector

- 51 Earth point, on right in luggage compartment
- 380 Earth connection 15, in main wiring harness
- 382 Earth connection 17, in main wiring harness
- B108 Connection 1 (CAN bus extended high), in main wiring harness
- B109 Connection 1 (CAN bus extended low), in main wiring harness
- B277 Positive connection 1 (15a) in main wiring harness

* Saloon
*2 Estate

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

https://www.automotive-manuals.net/
Lane change assist control unit 2, Lane change assist warning lamp in driver side exterior mirror, Lane change assist warning lamp in front passenger side exterior mirror

**J770** Lane change assist control unit 2
**K233** Lane change assist warning lamp in driver side exterior mirror
**K234** Lane change assist warning lamp in front passenger side exterior mirror

**T2bq** 2-pin connector
**T2q** 2-pin connector
**T12ag** 12-pin connector
**T28** 28-pin connector
**T28c** 28-pin connector

(B489) Connection 25, in main wiring harness

* Estate

---

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
l1 = purple  
v1 = purple  
ge = yellow  
or = orange  
rs = pink
Passat

Current Flow Diagram

No. 62 / 4

Convenience system central control unit, Steering column electronics control unit, Data bus diagnostic interface

- J303 Convenience system central control unit
- J527 Steering column electronics control unit
- J533 Data bus diagnostic interface
- T16o 16-pin connector
- T18a 18-pin connector
- T20e 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
- 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
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

https://www.automotive-manuals.net/
Vehicle location system
From May 2012
Starter, Control unit for vehicle location system, Vehicle location system aerial 1, Vehicle location system aerial 2, Diagnostic connection

- B Starter
- J519 Onboard supply control unit
- J623 Engine control unit
- J682 Terminal 50 voltage supply relay
- J710 Voltage supply relay 2
- J895 Control unit for vehicle location system
- R259 Vehicle location system aerial 1
- R260 Vehicle location system aerial 2
- SC10 Fuse 10 on fuse holder C
- SC25 Fuse 25 on fuse holder C
- T1v Single connector
- T5 5-pin connector
- T16d 16-pin connector
- T16fo 16-pin connector
- T52c 52-pin connector
- T94 94-pin connector
- U31 Diagnostic connection

- 50 Earth point, on left in luggage compartment
- A76 Connection (K-diagnosis wire), in dash panel wiring harness
- B290 Positive connection 14 (15a) in main wiring harness
- B509 Connection 3 (diagnosis), in main wiring harness
- B571 Connection 38, in main wiring harness

* see applicable current flow diagram for engine

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

Current Flow Diagram No. 63 / 2

https://www.automotive-manuals.net/
Electrically adjustable backrest and lumbar support, (3PD),(3PG),(7P7),(7P8),(8I2),(8I3)
From May 2011
Driver seat lumbar support adjustment switch, Massage function button, Driver seat adjustment control unit

- E176 Driver seat lumbar support adjustment switch
- E337 Massage function button
- J810 Driver seat adjustment control unit
- S44 Driver seat adjustment thermal fuse 1
- T4ma 4-pin connector
- T8ls 8-pin connector, brown
- T10c 10-pin connector, on driver seat
- T12sv 12-pin connector
- T16n 16-pin connector, black

- 77 Earth point, lower part of left B-pillar
- 96 Earth connection 1, in seat heating wiring harness
- B118 Connection (driver side seat adjustment), in interior wiring harness
- M50 Connection 10, in driver seat wiring harness

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

Current Flow Diagram

Passat

No. 64 / 2

[Diagram Image]

Visit the full manual at [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Driver seat adjustment control unit

- J810  Driver seat adjustment control unit
- T6bo  6-pin connector, black
- T16n  16-pin connector, black

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

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

Driver seat adjustment control unit

J810

6-pin connector, black

T6bo

16-pin connector, black

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

Passat

Current Flow Diagram

No. 64 / 3

https://www.automotive-manuals.net/
Lumbar support longitudinal adjustment sender, Lumbar support for driver seat, Driver seat backrest adjustment motor, Driver seat lumbar support longitudinal adjustment motor, Driver seat lumbar support height adjustment motor

G374 Lumbar support height adjustment sender
G375 Lumbar support longitudinal adjustment sender
T4km 4-pin connector, black
T4kn 4-pin connector, black
T4iv 4-pin connector
T4zz 4-pin connector
T6bo 6-pin connector, black
VX2 Lumbar support for driver seat
V45 Driver seat backrest adjustment motor
V125 Driver seat lumbar support longitudinal adjustment motor
V129 Driver seat lumbar support height adjustment motor

M96 Connection 4, seat adjustment wiring harness

* Lumbar support with massage

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

https://www.automotive-manuals.net/
Criminal investigation department, response vehicles (civil response vehicle, doctors emergency response vehicle)
From May 2011
X-contact relief relay, Onboard supply control unit, Fuse holder D

- **A Battery**
- **J59** X-contact relief relay
- **J519** Onboard supply control unit
- **SD16** Fuse 16 on fuse holder D
- **SD17** Fuse 17 on fuse holder D
- **SD18** Fuse 18 on fuse holder D
- **SB18** Fuse 18 on fuse holder B
- **SD19** Fuse 19 on fuse holder D
- **SD21** Fuse 21 on fuse holder D
- **SB53** Fuse 53 on fuse holder B
- **S291** Special vehicle fuse 1
- **SD** Fuse holder D, Fuse carrier on right of dash panel

- **T10ad** 10-pin connector, on left A-pillar
- **T40** 40-pin connector
- **T52b** 52-pin connector, white
- **T52c** 52-pin connector, brown

- **249** Earth connection 2, in interior wiring harness
- **639** Earth point, left A-pillar
- **B319** Positive connection 5 (30a) in main wiring harness
- **B346** Connection 1 (75), in main wiring harness

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Hands-free system button, Special signal system changeover button, Special vehicle control unit

- **E487** Hands-free system button
- **E505** Special signal system changeover button
- **J608** Special vehicle control unit
- **L76** Button illumination bulb
- **T6xe** 6-pin connector
- **T6xf** 6-pin connector
- **T12xb** 12-pin connector
- **T16s** 16-pin connector
- **T20n** 20-pin connector

### Connection Symbols
- **454** Earth connection 4, in optional equipment wiring harness
- **459** Earth connection 15, in interior wiring harness
- **X188** Connection 7, in siren system wiring harness

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Functional test button for special signal system, Button to deactivate interior lights, Button for daytime running light switch-off, Special vehicle control unit

- E504: Functional test button for special signal system
- E652: Button for daytime running light switch-off
- J608: Special vehicle control unit
- L76: Button illumination bulb
- T6xg: 6-pin connector
- T6xh: 6-pin connector
- T6xi: 6-pin connector
- T16s: 16-pin connector
- T20n: 20-pin connector

- 459: Earth connection, in interior wiring harness
- X185: Connection 4, in siren system wiring harness

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

Current Flow Diagram

No. 65 / 4

Passat

https://www.automotive-manuals.net/
Switch to trip alarm, Ignition bypass button, Special vehicle control unit, Accident data memory

- E247  Switch to trip alarm
- E489  Ignition bypass button
- J608  Special vehicle control unit
- J754  Accident data memory
- L76   Button illumination bulb
- T6xj  6-pin connector
- T6xk  6-pin connector
- T12i  12-pin connector, in luggage compartment
- T12xb 12-pin connector
- T16s  16-pin connector
- T20n  20-pin connector
- T26j  26-pin connector
- B514  Positive connection 10 (30a), in interior wiring harness
- B517  Positive connection 5 (15a), in interior wiring harness

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

https://www.automotive-manuals.net/
Accident data recorder button, Accident data memory, Accident recorder warning lamp

- E497 Accident data recorder button
- J754 Accident data memory
- K225 Accident recorder warning lamp
- L76 Button illumination bulb
- T5xb 5-pin connector
- T26j 26-pin connector

- 453 Earth connection 3, in optional equipment wiring harness
- B517 Positive connection 5 (15a), in interior wiring harness
- X186 Connection 5, in siren system wiring harness
- X187 Connection 6, in siren system wiring harness

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Accident data memory

- E1  Light switch
- J4   Dual tone horn relay
- J623 Engine control unit
- J754 Accident data memory
- T5a  5-pin connector
- T10j 10-pin connector
- T12k 12-pin connector, on left under dash panel
- T26j 26-pin connector

- B166 Connection (56a), in interior wiring harness
- B167 Connection (56b), in interior wiring harness
- B335 Connection 1 (54), in main wiring harness
- B341 Connection 2 (58d), in main wiring harness
- B465 Connection 1, in main wiring harness
- B581 Positive connection (left indicator lamp), in interior wiring harness
- B582 Positive connection (right indicator lamp), interior wiring harness
- X116 Positive connection 2 (30), in optional equipment wiring harness

* see applicable current flow diagram for basic equipment

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

https://www.automotive-manuals.net/
Personal danger alarm control unit
Loudspeaker for special signals

X130 Connection 3, in optional equipment wiring harness
J476  Personal danger alarm control unit
T2xk  2-pin connector
T2xl  2-pin connector
T2xm  2-pin connector
T2xn  2-pin connector
T2xp  2-pin connector
T33  33-pin connector
U5  12 V socket
U19  12 V socket 3
U20  12 V socket 4
U24  Charging station for hand-held 2-way radio
U28  Charging station 2 for hand-held 2-way radio
U29  Charging station 2 for torch

50  Earth point, on left in luggage compartment
61  Earth point, left C-pillar
365  Earth connection 2 (LF), in dash panel wiring harness
444  Earth connection 5, in siren system wiring harness
638  Earth point, on right A-pillar
X79  Connection 2, in optional equipment wiring harness
X140  Positive connection 2 (15a) in siren system wiring harness

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 65 / 10

Alarm rotary and pull switch

E500  Alarm rotary and pull switch
T12xa  12-pin connector

365  Earth connection 2 (LF), in dash panel wiring harness

X180  Positive connection 5 (30a) in siren system wiring harness

Legend:

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

https://www.automotive-manuals.net/
12-pin connector

T12r  12-pin connector, behind centre console
T12s  12-pin connector, in luggage compartment
*     Connection for 2-way radio

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

Current Flow Diagram

No.  65 /  11
2-way radio loudspeaker volume control 1, 2-way radio loudspeaker volume control 2, Two-way radio loudspeaker

E502  2-way radio loudspeaker volume control 1
E503  2-way radio loudspeaker volume control 2
R25   Two-way radio loudspeaker
T17xb 17-pin connector
* Connection for 2-way radio

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

Current Flow Diagram
No.  65 /  12

https://www.automotive-manuals.net/
Airbag systems for RHD vehicles
From November 2010
Passat

Current Flow Diagram

Key operated switch to deactivate front passenger side airbag, Airbag control unit, Front passenger side airbag deactivated warning lamp

- **E224** Key operated switch to deactivate front passenger side airbag
- **J234** Airbag control unit
- **K145** Front passenger side airbag deactivated warning lamp
- **SC9** Fuse 9 on fuse holder C
- **T6f** 6-pin connector
- **T100a** 100-pin connector

- **294** Earth connection 9, in interior wiring harness
- **B284** Positive connection 8 (15a) in main wiring harness

* Only models with key operated switch to deactivate front passenger airbag

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

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https://www.automotive-manuals.net/
Airbag coil connector and return ring with slip ring, Airbag control unit, Steering column electronics control unit, Driver side airbag igniter, Front passenger side airbag igniter 1, Side airbag igniter on driver side, Side airbag igniter on front passenger side, 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
N199  Side airbag igniter on driver side
N200  Side airbag igniter on front passenger side
N250  Driver side airbag igniter 2
T2kv  2-pin connector, in driver seat
T2kw  2-pin connector
T3  3-pin connector, under driver seat
T3a  3-pin connector, under front passenger seat
T3k  3-pin connector, behind glove compartment
T4ae  4-pin connector
T100a  100-pin connector

Earth connection 9, in interior wiring harness

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

https://www.automotive-manuals.net/
Airbag control unit, Driver seat belt tensioner igniter 1, Front passenger seat belt tensioner igniter 1, Driver side curtain airbag igniter, Front passenger side curtain airbag igniter

J234 Airbag control unit
N153 Driver seat belt tensioner igniter 1
N154 Front passenger seat belt tensioner igniter 1
N251 Driver side curtain airbag igniter
N252 Front passenger side curtain airbag igniter
T3aa 3-pin connector, yellow
T3ac 3-pin connector, yellow
T100a 100-pin connector

294 Earth connection 9, in interior wiring harness
Side airbag crash sensor on driver side, Side airbag crash sensor on front passenger side, Rear side airbag crash sensor on driver side, Rear side airbag crash sensor on front passenger side, Airbag control unit

G179 Side airbag crash sensor on driver side
G180 Side airbag crash sensor on front passenger side
G256 Rear side airbag crash sensor on driver side
G257 Rear side airbag crash sensor on front passenger side
J234 Airbag control unit

T28 28-pin connector, in right A-pillar coupling station
T28c 28-pin connector, in left A-pillar coupling station
T100a 100-pin connector

294 Earth connection 9, in interior wiring harness
Airbag control unit, Rear belt tensioner igniter on driver side, Rear belt tensioner igniter on front passenger side, Rear side airbag igniter on driver side, Rear side airbag igniter on front passenger side

J234  Airbag control unit
N196  Rear belt tensioner igniter on driver side
N197  Rear belt tensioner igniter on front passenger side
N201  Rear side airbag igniter on driver side
N202  Rear side airbag igniter on front passenger side
T3l  3-pin connector, yellow
T3n  3-pin connector, yellow
T3s  3-pin connector, yellow
T3w  3-pin connector, yellow
T100a 100-pin connector

294  Earth connection 9, in interior wiring harness
*  Only models with rear belt tensioner
+2 Only models with rear side airbag

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

https://www.automotive-manuals.net/
Front passenger side belt switch, Rear belt switch, driver side, Rear belt switch, front passenger side, Seat occupied sensor, front passenger side, Airbag control unit

- E24: Driver side belt switch
- E25: Front passenger side belt switch
- E258: Rear belt switch, driver side
- E259: Rear belt switch, front passenger side
- G128: Seat occupied sensor, front passenger side
- J234: Airbag control unit
- T2g: 2-pin connector, on driver seat, black
- T2lm: 2-pin connector, on front passenger seat
- T4vy: 4-pin connector
- T100a: 100-pin connector
- 294: Earth connection 9, in interior wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Airbag control unit, Control unit in dash panel insert, Data bus diagnostic interface, Seat belt warning system warning lamp, Airbag warning lamp, Battery isolation igniter

A Battery
J234 Airbag control unit
J285 Control unit in dash panel insert
J533 Data bus diagnostic interface
K19 Seat belt warning system warning lamp
K75 Airbag warning lamp
N253 Battery isolation igniter
T2fp 2-pin connector
T16d 16-pin connector, on diagnostic connection
T20e 20-pin connector
T32c 32-pin connector
T100a 100-pin connector
TV15 Wiring connector

[B384] Connection 2 (powertrain CAN bus, high), in main wiring harness
[B391] Connection 2 (powertrain CAN bus, low), in main wiring harness
* Diagnostic connection
*2 Only models with battery in luggage compartment
*3 According to equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gle = yellow
or = orange
rs = pink
2.0l diesel engine, CFFA, CFFB, CFGB, CFGC, CLLA
From November 2012
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- Battery (A)
- Starter (B)
- Battery monitor control unit (J367)
- Onboard supply control unit (J519)
- Terminal 50 voltage supply relay (J682)
- Voltage supply relay 2 (J710)
- Single connector (T1ac, T1v)
- 2-pin connector (T2fj)
- 52-pin connector (T52a, T52b, T52c)

12 Earth point, on left in engine compartment
652 Earth point, engine and gearbox earth
B571 Connection 38, in main wiring harness
B684 Positive connection 24 (30a) in main wiring harness
B699 Connection 4 (LIN bus) in main wiring harness

* Only models with no start/stop system
*2 Only models with start/stop system

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Fuse holder C

- J329 Terminal 15 voltage supply relay
- SC Fuse holder C
- SC1 Fuse 1 on fuse holder C
- SC3 Fuse 3 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC48 Fuse 48 on fuse holder C

- B239 Positive connection 1 (50), in interior wiring harness
- B290 Positive connection 14 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B317 Positive connection 3 (30a) in main wiring harness
- B330 Positive connection 16 (30a) in main wiring harness
- B571 Connection 38, in main wiring harness
- B598 Positive connection 11 (30a), in interior wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Terminal 30 voltage supply relay, Fuse holder A, Fuse holder B

CX1  Alternator with voltage regulator
J317  Terminal 30 voltage supply relay
SA  Fuse holder A
SA1  Fuse 1 in fuse holder A
SA3  Fuse 3 in fuse holder A
SA4  Fuse 4 in fuse holder A
S204  Fuse 1 (30)
SB  Fuse holder B
T1a  Single connector
T1ac  Single connector
T2gd  2-pin connector
T2xr  2-pin connector
T4a  4-pin connector, near starter
T40  40-pin connector

502  Threaded connection 1 (30a) on relay plate
507  Threaded connection (30), on battery fuse holder
513  Threaded connection 3 (30a) on relay plate
514  Threaded connection 4 (30a) on relay plate
B344  Connection 1 (61), in main wiring harness

*  According to equipment
*2  Only models with start/stop system
*3  Only models with no start/stop system

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

https://www.automotive-manuals.net/
Fuel pump relay, Electric fuel pump 2 relay, Fuse holder B

- J17 Fuel pump relay
- J49 Electric fuel pump 2 relay
- SB Fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB11 Fuse 11 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB23 Fuse 23 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- SB28 Fuse 28 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector

- B362 Positive connection 13 (87a) in main wiring harness
- B429 Connection (EFPR), in main wiring harness
  - * Only models with auxiliary heating
  - *2 Only models with start/stop system
  - *3 Only models with no start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Electronic ignition lock, Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4, Heater element for crankcase breather

- D9  Electronic ignition lock
- J623  Engine control unit
- N30  Injector, cylinder 1
- N31  Injector, cylinder 2
- N32  Injector, cylinder 3
- N33  Injector, cylinder 4
- N79  Heater element for crankcase breather
- T16f  16-pin connector
- T60  60-pin connector
- T94  94-pin connector

- 131  Earth connection 2, in engine compartment wiring harness
- 645  Earth point 1, on bulkhead
- B729  Connection 1 (50), in main wiring harness
- D78  Positive connection 1 (30a), in engine compartment wiring harness
- D182  Connection 3 (87a), in engine compartment wiring harness

* Only for countries with cold climate

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

Current Flow Diagram

Charge pressure sender, Intake air temperature sender, Pressure differential sender, Gearbox neutral position sender, Low heat output relay, High heat output relay, Engine control unit

- G31 Charge pressure sender
- G42 Intake air temperature sender
- G505 Pressure differential sender
- G701 Gearbox neutral position sender
- J359 Low heat output relay
- J360 High heat output relay
- J623 Engine control unit
- T3dx 3-pin connector
- T3q 3-pin connector, black
- T4bo 4-pin connector
- T4nu 4-pin connector, black
- T94 94-pin connector

- 298 Earth connection 13, in interior wiring harness
- B369 Connection 1 (5V), in main wiring harness
- * Only models with start/stop system
- **2 Only models with no start/stop system

Legend:
- 298 Earth connection 13, in interior wiring harness
- B369 Connection 1 (5V), in main wiring harness
- * Only models with start/stop system
- **2 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Lambda probe, Accelerator position sender, Engine control unit

- G39 Lambda probe
- G79 Accelerator position sender
- G185 Accelerator position sender 2
- J623 Engine control unit
- T6ac 6-pin connector, near Lambda probe
- T6q 6-pin connector
- T94 94-pin connector
- Z19 Lambda probe heater

* Only models with no start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gn = green
bl = blue
gr = grey
li = purple
vi = purple

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

No. 67 / 9

Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

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
T2eh  2-pin connector
T2jy  2-pin connector, black
T2jz  2-pin connector, brown
T2ka  2-pin connector, dark brown
T10ap 10-pin connector, near left headlight
T94  94-pin connector

* According to equipment

327  Earth connection (sender earth), in engine compartment wiring harness

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

https://www.automotive-Manuals.net/
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
T14a  14-pin connector, on left in engine compartment
T60   60-pin connector
T94   94-pin connector

B574  Positive connection 20 (87a) in main wiring harness
D111  Connection 9 in engine compartment wiring harness

Passat
Current Flow Diagram

No. 67 / 10

1.5 bl/rt
1.0 ge/swe
2.5 sw/ge
1.0 bl/rt
0.5 bl/rt
0.5 gn/sw
1.0 gn/sw
1.0 gn/sw
1.0 gn/sw
0.5 gn/sw
1.0 gn/sw

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

https://www.automotive-manuals.net/
Coolant temperature sender, Air mass meter, Fuel temperature sender, Steering column electronics control unit, Engine control unit

- **G62**: Coolant temperature sender
- **G70**: Air mass meter
- **G81**: Fuel temperature sender
- **J527**: Steering column electronics control unit
- **J623**: Engine control unit
- **T160**: 16-pin connector
- **T60**: 60-pin connector
- **T94**: 94-pin connector

**85**: Earth connection 1, in engine compartment wiring harness

**B441**: Connection (CCS), in main wiring harness

* Only models with adaptive cruise control (ACC)
*2 Only models with cruise control system (CCS)
*3 Gradual introduction

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**Passat**

Current Flow Diagram

No. 67 / 11

https://www.automotive-manuals.net/
Exhaust gas recirculation valve 1, Throttle valve potentiometer, Fuel pressure sender, Throttle valve module, Engine control unit, Exhaust gas recirculation control motor

- GX5: Exhaust gas recirculation valve 1
- G69: Throttle valve potentiometer
- G212: Exhaust gas recirculation potentiometer
- G247: Fuel pressure sender
- J338: Throttle valve module
- J623: Engine control unit
- T3bd: 3-pin connector
- T5af: 5-pin connector
- T6aw: 6-pin connector
- T60: 60-pin connector
- V338: Exhaust gas recirculation control motor

Earth connection 1, in engine compartment wiring harness 85

Connection 2 (5V) in engine prewiring harness D174
Engine speed sender, Hall sender, Position sender for charge pressure positioner, Engine control unit

G28  Engine speed sender
G40  Hall sender
G581 Position sender for charge pressure positioner
J623 Engine control unit
T3bl 3-pin connector, grey
T3bo 3-pin connector
T3dk 3-pin connector
T60 60-pin connector

85  Earth connection 1, in engine compartment wiring harness

D174 Connection 2 (5V) in engine prewiring harness
Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

- F: Brake light switch
- G476: Clutch position sender
- J519: Onboard supply control unit
- J540: Control unit for electromechanical parking brake
- J623: Engine control unit
- J743: Mechatronic unit for dual clutch gearbox
- T4f: 4-pin connector
- T5j: 5-pin connector
- T20: 20-pin connector
- T30: 30-pin connector
- T52c: 52-pin connector
- T94: 94-pin connector

**Earth connections**
- 249: Earth connection 2, in interior wiring harness
- 398: Earth connection 33, in main wiring harness
- 639: Earth point, left A-pillar
- B335: Connection 1 (54), in main wiring harness
- D109: Connection 7 in engine compartment wiring harness

Notes:
- * Only models with dual clutch gearbox (DSG)
- *2 Only models with start/stop system
- *3 Only models with no start/stop system
- *4 Only models with extended servicing intervals (ESI)

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

https://www.automotive-manuals.net/
Switch module 2 in centre console, Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2

EX30  Switch module 2 in centre console
E693  Start/Stop operation button
J519  Onboard supply control unit
J532  Voltage stabiliser
J623  Engine control unit
J906  Starter relay 1
J907  Starter relay 2
K259  Start/Stop operation warning lamp
L76   Button illumination bulb
T12ad 12-pin connector
T26i  26-pin connector
T52b  52-pin connector
T52c  52-pin connector
T94   94-pin connector

297  Earth connection 12, in interior wiring harness
397  Earth connection 32, in main wiring harness
687  Earth point 1, on centre tunnel
B277  Positive connection 1 (15a) in main wiring harness
B340  Connection 1 (58d), in main wiring harness
B509  Connection 3 (diagnosis), in main wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system
Passat
Current Flow Diagram
No. 67 / 17

Automatic glow period control unit, Data bus diagnostic interface, Engine control unit, Glow plug 1, Glow plug 2, Glow plug 3, Glow plug 4

- J179 Automatic glow period control unit
- J533 Data bus diagnostic interface
- J623 Engine control unit
- Q10 Glow plug 1
- Q11 Glow plug 2
- Q12 Glow plug 3
- Q13 Glow plug 4
- T14a 14-pin connector, on left in engine compartment
- T16d 16-pin connector
- T20e 20-pin connector
- T94 94-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

* Only models with start/stop system

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

https://www.automotive-manuals.net/
Temperature sender for reducing agent, Reducing agent level sender, Evaluation unit for reducing agent level, Engine control unit, Control unit for reducing agent heater

G685  Temperature sender for reducing agent
G697  Reducing agent level sender
G698  Evaluation unit for reducing agent level
J623  Engine control unit
J891  Control unit for reducing agent heater
SB18  Fuse 18 on fuse holder B
T3sh  3-pin connector
T4sd  4-pin connector
T4se  4-pin connector
T5sc  5-pin connector
T14sg 14-pin connector
T94  94-pin connector
Z102  Heater for reducing agent tank (heater circuit 1)

(B351) Positive connection 2 (87a) in main wiring harness

(W67) Connection (87), in floor wiring harness
Pressure sender for reducing agent metering system, Engine control unit, Reversing valve for reducing agent, Injector for reducing agent, Pump for reducing agent

G686  Pressure sender for reducing agent metering system
J623  Engine control unit
N473  Reversing valve for reducing agent
N474  Injector for reducing agent
T3si  3-pin connector
T5si  5-pin connector
T8sh  8-pin connector
T94  94-pin connector
V437  Pump for reducing agent
Z103  Heater for reducing agent pump (heater circuit 2)

- 50  Earth point, on left in luggage compartment
- 336  Earth connection 1, in floor wiring harness
- 394  Earth connection 29, in main wiring harness
- W67  Connection (87), in floor wiring harness

Current Flow Diagram

Passat

https://www.automotive-manuals.net/
Current Flow Diagram

NOx sender 2, Engine control unit, Control unit for NOx sender 2, Heater for reducing agent line (heater circuit 2)

- NOx sender 2: G687
- Engine control unit: J623
- Control unit for NOx sender 2: J881
- Heater for reducing agent line (heater circuit 2): Z104
- 5-pin connector: T5ao
- 8-pin connector: T8sh
- 94-pin connector: T94
- Adapter wire: *

Earth connection 29, in main wiring harness: 394
Earth connection 35, in main wiring harness: 400
Positive connection 3 (87a), in interior wiring harness: B599

Current Flow Diagram

No. 67 / 20

https://www.automotive-manuals.net/
Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Glow period warning lamp, Oil level warning lamp, Reserve fuel warning lamp.

- F1 Oil pressure switch
- G266 Oil level and oil temperature sender
- J285 Control unit in dash panel insert
- K Dash panel insert
- K2 Alternator warning lamp
- K3 Oil pressure warning lamp
- K28 Coolant temperature and coolant shortage warning lamp
- K29 Glow period warning lamp
- K38 Oil level warning lamp
- K105 Reserve fuel warning lamp
- T3bu 3-pin connector
- T6e 6-pin connector, front left in engine compartment
- T14a 14-pin connector, on left in engine compartment
- T32c 32-pin connector

- B163 Positive connection 1 (15), in interior wiring harness

* Only models with extended servicing intervals (ESI)
*2 Only models with start/stop system
*3 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Fuel gauge sender, Fuel gauge, Coolant temperature gauge, Rev. counter, Fuel system pressurisation pump, Speedometer, Coolant shortage indicator sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Cruise control system warning lamp, Electronic power control fault lamp

G  Fuel gauge sender
G1  Fuel gauge
G3  Coolant temperature gauge
G5  Rev. counter
G6  Fuel system pressurisation pump
G21  Speedometer
G32  Coolant shortage indicator sender
G169  Fuel gauge sender 2
H3  Buzzer and gong
J285  Control unit in dash panel insert
K  Dash panel insert
K31  Cruise control system warning lamp
K132  Electronic power control fault lamp
T2gd  2-pin connector
T3ai  3-pin connector
T5d  5-pin connector
T32c  32-pin connector

* Only models with all-wheel drive

78  Earth point, lower part of right B-pillar
295  Earth connection 10, in interior wiring harness

ws  =  white
sw  =  black
ro  =  red
rt  =  red
br  =  brown
gn  =  green
bl  =  blue
gr  =  grey
li  =  purple
vi  =  purple
yi  =  yellow
or  =  orange
rs  =  pink
1.4l petrol engine, CAXA
From October 2011
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- A Battery
- B Starter
- J367 Battery monitor control unit
- J519 Onboard supply control unit
- J682 Terminal 50 voltage supply relay
- J710 Voltage supply relay 2

- T1v Single connector
- T2fj 2-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

12 Earth point, on left in engine compartment

- (B571) Connection 38, in main wiring harness
- (B684) Positive connection 24 (30a) in main wiring harness
- (B699) Connection 4 (LIN bus) in main wiring harness

* Only models with no start/stop system
*2 Only models with start/stop system

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- J329 Terminal 15 voltage supply relay
- SA Fuse holder A
- SC1 Fuse 1 on fuse holder C
- SA4 Fuse 4 in fuse holder A
- SC Fuse holder C
- SC4 Fuse 4 on fuse holder C
- SC10 Fuse 10 on fuse holder C
- SC18 Fuse 18 on fuse holder C
- SC27 Fuse 27 on fuse holder C
- SC39 Fuse 39 on fuse holder C
- SC48 Fuse 48 on fuse holder C

- 507 Threaded connection (30), on battery fuse holder
- 514 Threaded connection 4 (30a) on relay plate
- B239 Positive connection 1 (50), in interior wiring harness
- B290 Positive connection 14 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B330 Positive connection 16 (30a) in main wiring harness
- B571 Connection 38, in main wiring harness
- B598 Positive connection 11 (30a), in interior wiring harness

* Only models with stop/start system
*2 Only models with start/stop system
*3 Only models with equipment for Japan

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Alternator with voltage regulator, Additional coolant pump relay, Fuse holder A, Fuse holder B, Coolant circulation pump

CX1 Alternator with voltage regulator
J496 Additional coolant pump relay
SA Fuse holder A
SA1 Fuse 1 in fuse holder A
SA3 Fuse 3 in fuse holder A
SB Fuse holder B
SB17 Fuse 17 on fuse holder B
T2gc 2-pin connector
T4a 4-pin connector, near starter
T14a 14-pin connector, black
T40 40-pin connector
V50 Coolant circulation pump

249 Earth connection 2, in interior wiring harness
639 Earth point, left A-pillar
* Only models with 140A alternator
*2 Only models with no start/stop system

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

https://www.automotive-manuals.net/
Main relay, Fuse holder B

- J271 Main relay
- SB Fuse holder B
- SB5 Fuse 5 on fuse holder B
- SB7 Fuse 7 on fuse holder B
- SB11 Fuse 11 on fuse holder B
- SB13 Fuse 13 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- T40 40-pin connector

12 Earth point, on left in engine compartment

652 Earth point, engine and gearbox earth

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

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

Current Flow Diagram
Engine control unit, Fuse holder B
- G294 Brake servo pressure sensor
- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB10 Fuse 10 on fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T4xi 4-pin connector
- T14a 14-pin connector, black
- T40 40-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 131 Earth connection 2, in engine compartment wiring harness
- 297 Earth connection 12, in interior wiring harness
- 645 Earth point 1, on bulkhead
- 673 Earth point 3, on front of left longitudinal member
- D182 Connection 3 (87a), in engine compartment wiring harness

* Only models with start/stop system
*2 Only models with no start/stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gi = 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, Spark plug connector, Spark plugs

- J623 Engine control unit, central in plenum chamber
- 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
- T4ba 4-pin connector, black
- T4bb 4-pin connector, black
- T4bc 4-pin connector, black
- T4bd 4-pin connector, black
- T14a 14-pin connector, black
- T60 60-pin connector, black

- 15 Earth point, on cylinder head
- 85 Earth connection 1, in engine compartment wiring harness
- 281 Earth point 1, engine prewiring harness
- D206 Connection 4 (87a) in engine prewiring harness

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

https://www.automotive-manuals.net/
Accelerator pedal module, Throttle valve module, Accelerator position sender, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

GX2  Accelerator pedal module
GX3  Throttle valve module
G79  Accelerator position sender
G185 Accelerator position sender 2
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, central in plenum chamber
T6at 6-pin connector, black
T6q  6-pin connector
T60  60-pin connector, black
T94  94-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
bn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Intake manifold sender, Charge pressure sender, Engine speed sender, Charge pressure sender, Intake manifold pressure sender, Engine control unit

- **GX9** Intake manifold sender
- **G28** Charge pressure sender
- **G31** Engine speed sender
- **G299** Intake air temperature sender
- **G71** Intake manifold pressure sender
- **J623** Engine control unit, central in plenum chamber
- **T3bq** 3-pin connector, orange
- **T4bl** 4-pin connector, black
- **T4nq** 4-pin connector, black
- **T60** 60-pin connector, black
- **220** Earth connection (sender earth), in engine wiring harness

- **D101** Connection 1 in engine compartment wiring harness
- **D102** Connection 2 in engine compartment wiring harness
- * Pre-wired component

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

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https://www.automotive-manuals.net/
Hall sender, Coolant temperature sender, Radiator outlet coolant temperature sender, Fuel pressure sender, Engine control unit, Vacuum pump for brakes

G40  Hall sender
G62  Coolant temperature sender
G83  Radiator outlet coolant temperature sender, black
G247 Fuel pressure sender
J623 Engine control unit, central in plenum chamber
T3bj 3-pin connector, black
T3br 3-pin connector, black
T6ja 6-pin connector
T60  60-pin connector, black
T94  94-pin connector
V192 Vacuum pump for brakes

220  Earth connection (sender earth), in engine wiring harness
607  Earth point, on left in plenum chamber
D101 Connection 1 in engine compartment wiring harness
* Only models with equipment for Japan

ws = white
sw = black
ro = red
rt = red
br = brown
ge = grey
li = purple
vi = purple
gn = green
bl = blue
gr = yellow
or = orange
rs = pink
Knock sensor 1, Engine control unit, Radiator fan, Radiator fan 2

- G61 Knock sensor 1
- J293 Radiator fan control unit
- J623 Engine control unit, central in plenum chamber
- T2be 2-pin connector, on lock carrier
- T4i 4-pin connector, on lock carrier
- T60 60-pin connector, black
- T94 94-pin connector
- V7 Radiator fan
- VX57 Radiator fan
- V177 Radiator fan 2

- 671 Earth point 1, on front of left longitudinal member
- B617 Positive connection 5 (87a), in interior wiring harness

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

Current Flow Diagram No. 68 / 12

Passat 04.2016

https://www.automotive-manuals.net/
Electronic ignition lock, Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve

- **D9** Electronic ignition lock
- **J527** Steering column electronics control unit
- **J623** Engine control unit, central in plenum chamber
- **N75** Charge pressure control solenoid valve
- **N80** Activated charcoal filter solenoid valve 1
- **N205** Camshaft control valve 1
- **N249** Turbocharger air recirculation valve
- **T14a** 14-pin connector, black
- **T16f** 16-pin connector
- **T16o** 16-pin connector
- **T60** 60-pin connector, black
- **T94** 94-pin connector
- **B441** Connection (CCS), in main wiring harness
- **B617** Positive connection 5 (87a), in interior wiring harness
- **B729** Connection 1 (50), in main wiring harness
- **D196** Connection 2 (87a) in engine prewiring harness
  - * Only models with adaptive cruise control (ACC)
  - *2 Speed signal
  - *3 Only models with start/stop system
  - *4 gradual introduction

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

Current Flow Diagram

No. 68 / 13

https://www.automotive-manuals.net/
Gearbox neutral position switch, Lambda probe 1 after catalytic converter, Lambda probe 1 before catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

- F365: Gearbox neutral position switch
- GX7: Lambda probe 1 after catalytic converter
- GX10: Lambda probe 1 before catalytic converter
- G39: Lambda probe
- G130: Lambda probe after catalytic converter
- J623: Engine control unit, central in plenum chamber
- T3dx: 3-pin connector
- T4no: 4-pin connector
- T6w: 6-pin connector
- T94: 94-pin connector
- Z19: Lambda probe heater
- Z29: Lambda probe 1 heater after catalytic converter

Connection (87a) in engine prewiring harness

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

https://www.automotive-manuals.net/
Switch module 2 in centre console, Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2

EX30  Switch module 2 in centre console
E693  Start/Stop operation button
J519  Onboard supply control unit
J532  Voltage stabiliser
J623  Engine control unit, central in plenum chamber
J906  Starter relay 1
J907  Starter relay 2
K259  Start/Stop operation warning lamp
L76   Button illumination bulb
T12ad 12-pin connector
T26i  26-pin connector
T52b  52-pin connector
T52c  52-pin connector
T94   94-pin connector

297  Earth connection 12, in interior wiring harness
397  Earth connection 32, in main wiring harness
673  Earth point 3, on front of left longitudinal member
687  Earth point 1, on centre tunnel
B277  Positive connection 1 (15a) in main wiring harness
B340  Connection 1 (58d), in main wiring harness
B509  Connection 3 (diagnosis), in main wiring harness
* Only models with start/stop system

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

https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Engine control unit, Fuel pressure regulating valve

- **F**: Brake light switch
- **G476**: Clutch position sender
- **J519**: Onboard supply control unit
- **J540**: Control unit for electromechanical parking brake
- **J623**: Engine control unit, central in plenum chamber
- **J743**: Mechatronic unit for dual clutch gearbox
- **N276**: Fuel pressure regulating valve
- **T4f**: 4-pin connector
- **T5j**: 5-pin connector
- **T14a**: 14-pin connector, black
- **T25**: 25-pin connector
- **T30**: 30-pin connector
- **T52c**: 52-pin connector
- **T60**: 60-pin connector, black
- **T94**: 94-pin connector

Wiring colour depends on equipment:

- **w=white**
- **sw=black**
- **ro=red**
- **rt=red**
- **br=brown**
- **gn=green**
- **bl=blue**
- **gr=grey**
- **li=yellow**
- **vi=orange**
- **ge=pink**

* Only models with manual gearbox
*2 Only models with start/stop system
*3 Only models with dual clutch gearbox (DSG)
*4 Only models with no start/stop system
*5 Wiring colour depends on equipment

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**Passat**

**Current Flow Diagram**

No. 68 / 16

398 Earth connection 33, in main wiring harness
639 Earth point, left A-pillar
B335 Connection 1 (54), 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
B585 Positive connection 2 (87a), in main wiring harness
D109 Connection 7 in engine compartment wiring harness

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https://www.automotive-manuals.net/
Fuel gauge sender, Fuel system pressurisation pump,
Onboard supply control unit, Data bus diagnostic interface,
Fuel pump control unit

- G  Fuel gauge sender
- G6  Fuel system pressurisation pump
- J519  Onboard supply control unit
- J533  Data bus diagnostic interface
- J538  Fuel pump control unit
- T5a  5-pin connector
- T10p  10-pin connector
- T16d  16-pin connector, on diagnostic connection
- T20e  20-pin connector
- T52b  52-pin connector

- 78  Earth point, lower part of right B-pillar
- 295  Earth connection 10, in interior 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

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

G32  Coolant shortage indicator sender
G169  Fuel gauge sender 2
J285  Control unit in dash panel insert
K  Dash panel insert
K2  Alternator warning lamp
K3  Oil pressure warning lamp
K28  Coolant temperature and coolant shortage warning lamp
K31  Cruise control system warning lamp
K105  Reserve fuel warning lamp
T3ai  3-pin connector
T32c  32-pin connector

295  Earth connection 10, in interior wiring harness
*  Only models with all-wheel drive
*2  Only models with start/stop system

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp.

- **F1** Oil pressure switch
- **G1** Fuel gauge
- **G3** Coolant temperature gauge
- **G5** Rev. counter
- **G266** Oil level and oil temperature sender
- **H3** Buzzer and gong
- **J285** Control unit in dash panel insert
- **K** Dash panel insert
- **K38** Oil level warning lamp
- **K132** Electronic power control fault lamp
- **T3bu** 3-pin connector
- **T6e** 6-pin connector
- **T14a** 14-pin connector, black
- **T32c** 32-pin connector
- **B163** Positive connection 1 (15), in interior wiring harness

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Basic equipment
From November 2011
X-contact relief relay, Terminal 15 voltage supply relay, Onboard supply control unit, 16-pin connector

- J59  X-contact relief relay
- J329 Terminal 15 voltage supply relay
- J519 Onboard supply control unit
- SC2 Fuse 2 on fuse holder C
- SC4 Fuse 4 on fuse holder C
- SB25 Fuse 25 on fuse holder B
- SB26 Fuse 26 on fuse holder B
- SB29 Fuse 29 on fuse holder B
- SB30 Fuse 30 on fuse holder B
- SC40 Fuse 40 on fuse holder C
- SB47 Fuse 47 on fuse holder B
- SB48 Fuse 48 on fuse holder B
- SB49 Fuse 49 on fuse holder B
- SB53 Fuse 53 on fuse holder B
- T16d 16-pin connector
- T40 40-pin connector
- T52a 52-pin connector, black
- T52b 52-pin connector, white
- T52c 52-pin connector, brown

- B277 Positive connection 1 (15a) in main wiring harness
- B267 Positive connection 11 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B319 Positive connection 5 (30a) in main wiring harness
- B346 Connection 1 (75), in main wiring harness

* Fuses in E-box, Low
*2 Fuses in E-box, High
*3 gradual introduction

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

Current Flow Diagram: No. 69 / 2

https://www.automotive-manuals.net/
Fuse 5 on fuse holder C, Fuse 39 on fuse holder C

- SF1  Fuse 1 in fuse holder F
- SA4  Fuse 4 on fuse holder A
- SC5  Fuse 5 on fuse holder C
- SA5  Fuse 5 on fuse holder A
- SC7  Fuse 7 on fuse holder C
- SC13 Fuse 13 on fuse holder C
- SC15 Fuse 15 on fuse holder C
- SC16 Fuse 16 on fuse holder C
- SC39 Fuse 39 on fuse holder C
- T16d 16-pin connector
  - (B291) Positive connection 15 (15a) in main wiring harness
  - (B330) Positive connection 16 (30a) in main wiring harness
  - (B331) Positive connection 17 (30a) in main wiring harness
  - (B557) Positive connection 21 (30a) in main wiring harness

* Only models with battery in luggage compartment
*2 Fuses in E-box, High
*3 Fuses in E-box, Low

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Treble horn, Bass horn, Dual tone horn relay, Onboard supply control unit

- H2  Treble horn
- H7  Bass horn
- J4  Dual tone horn relay
- J519 Onboard supply control unit
- SB3 Fuse 3 on fuse holder B
- SB5 Fuse 5 on fuse holder B
- SA5 Fuse 5 on fuse holder A
- SA6 Fuse 6 on fuse holder A
- SC32 Fuse 32 on fuse holder C
- SC33 Fuse 33 on fuse holder C
- T40 40-pin connector
- T52a 52-pin connector, black
- T52b 52-pin connector, white

- 279 Earth connection 5, in interior wiring harness
- 685 Earth point 1, on front of right longitudinal member
- B315 Positive connection 1 (30a) in main wiring harness
- B465 Connection 1, in main wiring harness
- * Fuses in E-box, Low
- *2 Only models with battery in luggage compartment
- *3 Fuses in E-box, High

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Onboard supply control unit, Front left headlight, Front right headlight

- J519 Onboard supply control unit
- M1 Left side light bulb
- MX1 Front left headlight
- MX2 Front right headlight
- M3 Right side light bulb
- M5 Front left turn signal bulb
- M7 Front right turn signal bulb
- M29 Left headlight dipped beam bulb
- M30 Left headlight main beam bulb
- M31 Right headlight dipped beam bulb
- M32 Right headlight main beam bulb
- T10aw 10-pin connector
- T10q 10-pin connector
- T52a 52-pin connector, black
- T52c 52-pin connector, brown
- V48 Left headlight range control motor
- V49 Right headlight range control motor

- 371 Earth connection 6, in main wiring harness
- 673 Earth point 3, on front of left longitudinal member
- B282 Positive connection 6 (15a) in main wiring harness
- B457 Connection 1 (potentiometer), in main wiring harness
- B476 Connection 12, in main wiring harness

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

https://www.automotive-manuals.net/
Switch and instrument illumination regulator, Headlight range control regulator, Onboard supply control unit

- E20  Switch and instrument illumination regulator
- E102  Headlight range control regulator
- J519  Onboard supply control unit
- L76  Button illumination bulb
- T8g  8-pin connector
- T52a  52-pin connector, black
- T52b  52-pin connector, white
- T52c  52-pin connector, brown

- 42  Earth point, next to steering column
- 238  Earth connection 1, in interior wiring harness
- 277  Earth connection 3, in interior wiring harness
- 639  Earth point, left A-pillar
- B282  Positive connection 6 (15a) in main wiring harness
- B457  Connection 1 (potentiometer), in main wiring harness
- B476  Connection 12, in main wiring harness

* Only models with stop/start system

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Light switch, Hazard warning lights button, Onboard supply control unit

- **E1**: Light switch
- **E7**: Fog light switch
- **E18**: Rear fog light switch
- **E229**: Hazard warning lights button
- **J519**: Onboard supply control unit
- **K6**: Indicator lamp for hazard warning light
- **L9**: Light switch illumination bulb
- **T6dh**: 6-pin connector
- **T10j**: 10-pin connector
- **T52a**: 52-pin connector, black
- **T52b**: 52-pin connector, white
- **T52c**: 52-pin connector, brown

- **249**: Earth connection 2, in interior wiring harness
- **639**: Earth point, left A-pillar
- **B341**: Connection 2 (58d), in main wiring harness

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**Legend**

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

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https://www.automotive-manuals.net/
Electronic ignition lock, Onboard supply control unit, Steering column electronics control unit, Control unit for electronic steering column lock

- **D1** Immobiliser reading unit
- **D9** Electronic ignition lock
- **J519** Onboard supply control unit
- **J527** Steering column electronics control unit
- **J623** Engine control unit
- **J764** Control unit for electronic steering column lock
- **L76** Button illumination bulb
- **N376** Ignition key withdrawal lock solenoid
- **SB9** Fuse 9 on fuse holder B
- **SB16** Fuse 16 on fuse holder B
- **T10k** 10-pin connector
- **T16f** 16-pin connector
- **T16o** 16-pin connector
- **T40** 40-pin connector
- **T52b** 52-pin connector, white
- **T52c** 52-pin connector, brown

- **249** Earth connection 2, in interior wiring harness
- **B259** Connection (start/stop signal), in interior wiring harness
- * Fuses in E-box, Low
- *2 Fuses in E-box, High
- *3 see applicable current flow diagram for engine
- *4 Only models with no start/stop system
- *5 Only models with stop/start system
- *6 Only models with Tiptronic

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ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
li = purple  
vli = purple  
ge = yellow  
or = orange  
rs = pink
Steering column combination switch, Steering column electronics control unit

- E22 Intermittent wiper switch
- E34 Rear wiper switch
- E38 Intermittent wiper regulator
- E44 Washer pump switch (automatic wash/wipe and headlight washer system)
- E86 Multifunction display call-up button
- E92 Reset button
- E227 Cruise control system (CCS) SET button
- E595 Steering column combination switch
- J527 Steering column electronics control unit

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

Current Flow Diagram
No. 69 / 9

https://www.automotive-manuals.net/
Steering column combination switch, Airbag coil connector and return ring with slip ring, Horn plate, Multifunction steering wheel control unit, Steering column electronics control unit, Driver side airbag igniter

- E2 Turn signal switch
- E4 Headlight dipper and flasher switch
- E45 Cruise control system switch
- E51 Cruise control system master switch
- E527 Button to temporarily switch cruise control system (CCS) off
- E595 Steering column combination switch
- F138 Airbag coil connector and return ring with slip ring
- H Horn plate
- J234 Airbag control unit
- J453 Multifunction steering wheel control unit
- J527 Steering column electronics control unit
- N95 Driver side airbag igniter
- N250 Driver side airbag igniter 2
- T4ae 4-pin connector
- T100 100-pin connector
  * Only models with multifunction steering wheel
  *2 Flat conductor

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Driver door control unit, Front passenger door control unit, Onboard supply control unit, Steering column electronics control unit, Driver side door warning lamp, Front passenger side door warning lamp, Driver side entry light in exterior mirror, Front passenger side entry light in exterior mirror

- F189 Tiptronic switch
- J386 Driver door control unit
- J387 Front passenger door control unit
- J519 Onboard supply control unit
- J527 Steering column electronics control unit
- J623 Engine control unit
- L131 Driver side turn signal repeater bulb
- L132 Front passenger side turn signal repeater bulb
- T10o 10-pin connector
- T16k 16-pin connector
- T16l 16-pin connector
- T16o 16-pin connector
- T20g 20-pin connector
- T20h 20-pin connector
- T28 28-pin connector, in right A-pillar coupling station
- T28c 28-pin connector, in left A-pillar coupling station
- T32a 32-pin connector
- T32b 32-pin connector
- T52c 52-pin connector, brown
- W30 Driver side door warning lamp
- W36 Front passenger side door warning lamp
- W52 Driver side entry light in exterior mirror
- W53 Front passenger side entry light in exterior mirror

Connection 1 (convenience CAN bus, high), in main wiring harness
Connection 1 (convenience CAN bus, low), in main wiring harness
* see applicable current flow diagram for engine
*2 Only models with Tiptronic
*3 Only models with cruise control system (CCS)
Control unit in dash panel insert, Onboard supply control unit, Data bus diagnostic interface, Dash panel insert

J285 Control unit in dash panel insert
J519 Onboard supply control unit
J533 Data bus diagnostic interface
K Dash panel insert
SB15 Fuse 15 on fuse holder B
SB24 Fuse 24 on fuse holder B
T16d 16-pin connector, on diagnostic connection
T20e 20-pin connector
T32c 32-pin connector
T40 40-pin connector
T52a 52-pin connector, black
T52c 52-pin connector, brown

400 Earth connection 35, 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
(B397 Connection 1 (convenience CAN bus, high), in main wiring harness
(B398 Connection 1 (convenience CAN bus, low), in main wiring harness
(B406 Connection 1 (convenience CAN bus, low), in main wiring harness

* Fuses in E-box, High
*2 Fuses in E-box, Low

ws = white
sw = black
to = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = purple
or = orange
rs = pink
Control unit in dash panel insert, Dash panel insert

- **H3**: Buzzer and gong
- **J285**: Control unit in dash panel insert
- **J540**: Control unit for electromechanical parking brake
- **K**: Dash panel insert
- **K1**: Main beam warning lamp
- **K2**: Alternator warning lamp
- **K4**: Side light warning lamp
- **K13**: Rear fog light warning lamp
- **K65**: Left turn signal warning lamp
- **K94**: Right turn signal warning lamp
- **K118**: Brake system warning lamp
- **K170**: Bulb failure warning lamp
- **SB11**: Fuse 11 on fuse holder B
- **SB17**: Fuse 17 on fuse holder B
- **SC48**: Fuse 48 on fuse holder C
- **T30a**: 30-pin connector
- **T32c**: 32-pin connector
- **T40**: 40-pin connector

**Earthing points**
- **400**: Earth connection 35, in main wiring harness
- **639**: Earth point, left A-pillar
  - * Only models with stop/start system
  - *2 Fuses in E-box, High
  - *3 Fuses in E-box, Low
  - *4 Only models with no start/stop system

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

*Note: The image contains a Current Flow Diagram for Volkswagen Passat models.*

https://www.automotive-manuals.net/
Brake fluid level warning contact, Bonnet contact switch, Ambient temperature sensor, Coolant shortage indicator sender, Windscreen washer fluid level sender, Control unit in dash panel insert, Dash panel insert

- **F34**  Brake fluid level warning contact
- **F266**  Bonnet contact switch
- **G3**  Coolant temperature gauge
- **G17**  Ambient temperature sensor
- **G32**  Coolant shortage indicator sender
- **G33**  Windscreen washer fluid level sender
- **J285**  Control unit in dash panel insert
- **K**  Dash panel insert
- **K18**  Trailer operation warning lamp
- **K28**  Coolant temperature and coolant shortage warning lamp
- **K37**  Washer fluid level warning lamp
- **K214**  Electric parking brake and handbrake fault warning lamp
- **T2kj**  2-pin connector, black
- **T4vw**  4-pin connector, behind right headlight, black
- **T32c**  32-pin connector

Earth connections:
- **295**  Earth connection 10, in interior wiring harness
- **398**  Earth connection 33, in main wiring harness
- **639**  Earth point, left A-pillar

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

https://www.automotive-manuals.net/
Brake light switch, Left fog light bulb, Right fog light bulb, Left cornering light bulb, Right cornering light bulb, Left daytime running light bulb, Right daytime running light bulb.

- Brake light switch: F
- Onboard supply control unit: J519
- Left fog light bulb: L22
- Right fog light bulb: L23
- Left cornering light bulb: L148
- Right cornering light bulb: L149
- Left daytime running light bulb: L174
- Right daytime running light bulb: L175
- Fuse holder B: SB
- 2-pin connector: T2nl, T2nr, T2ta, T2tb, T2tl, T2tr
- 4-pin connector: T4f
- 14-pin connector, near front bumper: T14c
- 52-pin connector, black: T52a
- 52-pin connector, brown: T52c
- Earth connection 6, in main wiring harness: 371
- Earth connection 33, in main wiring harness: 398
- Earth connection 1, front bumper wiring harness: 456
- Earth point 3, on front of left longitudinal member: 673
- Connection 1 (54), in main wiring harness: B335
- Positive connection 13 (87a) in main wiring harness: B362

Wiring colour depends on equipment

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

* see applicable current flow diagram for engine
*2 Only models with daytime running lights
*3 Only models with static cornering light
*4 Wiring colour depends on equipment

https://www.automotive-manuals.net/
Left tail light, Right tail light, Rear left turn signal bulb, Rear right turn signal bulb, Left reversing light bulb

J519  Onboard supply control unit
MX3   Left tail light
MX4   Right tail light
M6    Rear left turn signal bulb
M8    Rear right turn signal bulb
M16   Left reversing light bulb
M17   Right reversing light bulb
M21   Left brake and tail light bulb
M22   Right brake and tail light bulb
T4y   4-pin connector
T4z   4-pin connector
T52a  52-pin connector, black
T52c  52-pin connector, brown

50    Earth point, on left in luggage compartment
51    Earth point, on right in luggage compartment
369   Earth connection 4, in main wiring harness
B520  Connection (RL), in main wiring harness
W71   Connection (reversing light), in rear wiring harness

*    Saloon
*2   Estate

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

https://www.automotive-manuals.net/
Number plate light, Analogue clock

- **J519**: Onboard supply control unit
- **SB12**: Fuse 12 on fuse holder B
- **SB20**: Fuse 20 on fuse holder B
- **SC47**: Fuse 47 on fuse holder C
- **T3an**: 3-pin connector, in rear bumper
- **T8d**: 8-pin connector, in rear bumper
- **T10q**: 10-pin connector, in rear left side panel
- **T40**: 40-pin connector
- **T52c**: 52-pin connector, brown
- **X**: Number plate light
- **Y**: Analogue clock

- **51**: Earth point, on right in luggage compartment
- **345**: Earth connection, in bumper wiring harness
- **397**: Earth connection 32, in main wiring harness
- **687**: Earth point 1, on centre tunnel
- **B150**: Positive connection 2 (30a), in interior wiring harness
- **B698**: Connection 3 (LIN bus) in main wiring harness
- **W11**: Connection (58), in rear lid wiring harness
- **X150**: Connection (58), rear bumper wiring harness

- **Fuses in E-box, High**
- **Fuses in E-box, Low**
- **Only models with start/stop system**
- **Saloon**
- **Only models with parking aid (PDC)**
- **Estate**
- **Only models with no start/stop system**

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

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Passat

Current Flow Diagram

No. 69 / 17

https://www.automotive-manuals.net/
Rear left fog light bulb, Rear right fog light bulb, Left tail light 2, Right tail light 2, High-level brake light bulb

J519   Onboard supply control unit
L46    Rear left fog light bulb
L47    Rear right fog light bulb
MX5    Left tail light 2
MX6    Right tail light 2
M25    High-level brake light bulb
M49    Left tail light bulb 2
M50    Right tail light bulb 2
T2f    2-pin connector, Coupling point for rear lid
T2j    2-pin connector, Coupling point for rear lid
T2kf   2-pin connector
T52a   52-pin connector, black
T52c   52-pin connector, brown

0.5    Earth point, on left in luggage compartment

218    Earth connection 1, in rear lid wiring harness

369    Earth connection 4, in main wiring harness
*      Saloon
*2     Only left-hand drive models
*3     Only right-hand drive models

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gy = yellow
or = orange
rs = pink
Reversing light switch, Heated rear window relay, Double washer pump relay 1, Washer pump, Heated rear window, Left washer jet heater element, Right washer jet heater element

- F4 Reversing light switch
- J9 Heated rear window relay
- J519 Onboard supply control unit
- J729 Double washer pump relay 1
- T1y 1-pin connector
- T1z 1-pin connector
- T10q 10-pin connector, in rear left side panel
- T52a 52-pin connector, black
- T52b 52-pin connector, white
- V5 Washer pump
- Z1 Heated rear window
- Z20 Left washer jet heater element
- Z21 Right washer jet heater element

218 Earth connection 1, in rear lid wiring harness
395 Earth connection 30, in main wiring harness
646 Earth point 2, on bulkhead
657 Earth point 1, on left near rear window
C72 Positive connection in heated washer jet wiring harness
* Not for models with dual clutch gearbox
*2 Saloon
*3 Only models with heated washer jets
*4 Estate

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

https://www.automotive-manuals.net/
Headlight washer system relay, Double washer pump relay 2, Headlight washer system pump, Rear window wiper motor, Windscreen and rear window washer pump

- J39 Headlight washer system relay
- J519 Onboard supply control unit
- J730 Double washer pump relay 2
- T4ax 4-pin connector
- T10q 10-pin connector, in rear left side panel
- T52a 52-pin connector, black
- T52b 52-pin connector, white
- V11 Headlight washer system pump
- V12 Rear window wiper motor, black
- V59 Windscreen and rear window washer pump

- 685 Earth point 1, on front of right longitudinal member
- B162 Connection (75a), in interior wiring harness
- B324 Positive connection 10 (30a) in main wiring harness
- B479 Connection 15, in main wiring harness
- B568 Connection 35, in main wiring harness

* Estate
*2 Only models with headlight washer system

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

Current Flow Diagram

No. 69 / 21

https://www.automotive-manuals.net/
Rain and light sensor, Wiper motor control unit, Windscreen wiper motor

- G397 Rain and light sensor
- J400 Wiper motor control unit
- J519 Onboard supply control unit
- SB22 Fuse 22 on fuse holder B
- SB31 Fuse 31 on fuse holder B
- T3ah 3-pin connector
- T4k 4-pin connector
- T4xj 4-pin connector
- T40 40-pin connector
- T52b 52-pin connector, white
- T52c 52-pin connector, brown
- V Windscreen wiper motor

- 278 Earth connection 4, in interior wiring harness
- 647 Earth point 3, on bulkhead
- 689 Earth point, at front, central in roof
- B154 Connection 1 (DCt), in interior wiring harness
- B528 Connection 1 (LIN bus) in main wiring harness
- B616 Positive connection 12 (30a), in interior wiring harness

* Only left-hand drive models
*2 Fuses in E-box, High
*3 Fuses in E-box, Low
*4 Only right-hand drive models
*5 From November 2013
*6 Up to April 2012
*7 From May 2012
*8 Up to October 2013

Current Flow Diagram
No. 69 / 22

https://www.automotive-manuals.net/
Front interior light button, Driver side reading light button, Front passenger side reading light button, Front interior light, Left centre reading light, Right centre reading light, Rear interior light

- E326: Front interior light button
- E454: Rear left reading light button
- E455: Rear right reading light button
- E457: Driver side reading light button
- E458: Front passenger side reading light button
- J519: Onboard supply control unit
- SC26: Fuse 26 on fuse holder C
- T5o: 5-pin connector
- T6b: 6-pin connector
- T6t: 6-pin connector
- T10e: 10-pin connector
- T52b: 52-pin connector, white
- W1: Front interior light
- W11: Rear left reading light
- W12: Rear right reading light
- W39: Left centre reading light
- W40: Right centre reading light
- W43: Rear interior light
- Y7: Automatic anti-dazzle interior mirror

- 278: Earth connection 4, in interior wiring harness
- B154: Connection 1 (DCt), in interior wiring harness
- B340: Connection 1 (58d), in main wiring harness
- B559: Positive connection 1 (30g), in main wiring harness

* Flat conductor
*2 Only models with sliding/tilting sunroof

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

https://www.automotive-manuals.net/
Glove compartment light switch, Driver vanity mirror contact switch, Glove compartment light, Rear left reading light, Rear right reading light, Front passenger side illuminated vanity mirror, Driver side illuminated vanity mirror

- E26 Glove compartment light switch
- F147 Driver vanity mirror contact switch
- F148 Front passenger vanity mirror contact switch
- T10e 10-pin connector
- W6 Glove compartment light
- W11 Rear left reading light
- W12 Rear right reading light
- W14 Front passenger side illuminated vanity mirror
- W20 Driver side illuminated vanity mirror
- W31 Front left entry light
- W32 Front right entry light

- 278 Earth connection 4, in interior wiring harness
- 373 Earth connection 8, in main wiring harness
- 438 Earth connection 3, in roof wiring harness
- 638 Earth point, on right A-pillar

- B154 Connection 1 (DCt), in interior wiring harness
- B552 Positive connection 2, in roof wiring harness
- B559 Positive connection 1 (30g), in main wiring harness

* Only models with panoramic sliding sunroof
*2 Estate
*3 According to equipment
*4 Flat conductor

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

https://www.automotive-manuals.net/
Rear lid handle release button, Luggage compartment light switch, Convenience system central control unit, Tank filler flap locking motor, Luggage compartment light

- E234 Rear lid handle release button
- F5 Luggage compartment light switch
- F256 Rear lid lock unit
- J393 Convenience system central control unit
- T2e 2-pin connector, Coupling point for rear lid
- T2f 2-pin connector, Coupling point for rear lid
- T3as 3-pin connector
- T8r 8-pin connector
- T18a 18-pin connector
- V53 Rear lid central locking motor
- V155 Tank filler flap locking motor
- W3 Luggage compartment light

- 50 Earth point, on left in luggage compartment
- 218 Earth connection 1, in rear lid wiring harness
- 369 Earth connection 4, in main wiring harness
- B477 Connection 13, in main wiring harness
- B559 Positive connection 1 (30g), in main wiring harness:
  * Saloon

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Rear lid handle release button, Luggage compartment light switch, Rear lid lock unit, Convenience system central control unit, Tank filler flap locking motor, Rear lid electric opener motor, Luggage compartment light

- E234 Rear lid handle release button
- F5 Luggage compartment light switch
- F256 Rear lid lock unit
- J393 Convenience system central control unit
- T4az 4-pin connector
- T8r 8-pin connector
- T10h 10-pin connector, in rear right side panel
- T10q 10-pin connector, in rear left side panel
- T18a 18-pin connector
- V155 Tank filler flap locking motor
- V254 Rear lid electric opener motor
- W3 Luggage compartment light

- 51 Earth point, on right in luggage compartment
- 218 Earth connection 1, in rear lid wiring harness
- 219 Earth connection 2, in rear lid wiring harness
- 612 Earth point, centre on rear lid

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

https://www.automotive-manuals.net/
Convenience system central control unit, Left footwell light, Right footwell light

- J393 Convenience system central control unit
- J519 Onboard supply control unit
- T6an 6-pin connector
- T18a 18-pin connector
- T52b 52-pin connector, white
- W9 Left footwell light
- W10 Right footwell light

(B820) Connection (electronic steering column lock) in main wiring harness

* Only models with footwell illumination
*2 From May 2014
*3 Up to April 2014

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

Passat

Current Flow Diagram

No. 69 / 27

https://www.automotive-manuals.net/
Mobile telephone systems with MEDIA-IN multimedia socket, (9W7),(9ZA),(9ZB),(UF6),(UF8)
From May 2013
Multimedia system control unit

- E276 Emergency assistance call button
- J503 Control unit with display for radio and navigation
- J519 Onboard supply control unit
- J650 Multimedia system control unit, in glove compartment, under centre armrest, front
- R Radio
- R199 Connection for external audio sources
- SB Fuse holder B
- SB20 Fuse 20 on fuse holder B
- T4ux 4-pin connector
- T6ad 6-pin connector
- T12j 12-pin connector
- T12l 12-pin connector
- T52b 52-pin connector
- T54d 54-pin connector
- 383 Earth connection 18, in main wiring harness
- 683 Earth point on front of right side member
- B150 Positive connection 2 (30a), in interior wiring harness
- B340 Connection 1 (58d), in main wiring harness
- B341 Connection 2 (58d), in main wiring harness
  * Only models with voice control

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

https://www.automotive-manuals.net/
Passat

Current Flow Diagram

Multimedia system control unit, Roof aerial, Telephone microphone, Telephone aerial, Telephone bracket

- J533: Data bus diagnostic interface
- J650: Multimedia system control unit, in glove compartment, under centre armrest, front
- RX5: Roof aerial
- R38: Telephone microphone
- R65: Telephone aerial
- R126: Telephone bracket
- T2f: 2-pin connector
- T10ak: 10-pin connector
- T20e: 20-pin connector
- T54d: 54-pin connector

- 397: Earth connection 32, in main wiring harness
- 687: Earth point 1, on centre tunnel
- B415: Connection 1 (infotainment CAN bus, high), in main wiring harness
- B421: Connection 1 (infotainment CAN bus, low), in main wiring harness

* According to equipment
*2 Only models with voice control

_ws_ = white
_sw_ = black
_ro_ = red
_rt_ = red
_br_ = brown
_gn_ = green
_bl_ = blue
_gr_ = grey
_li_ = purple
_vi_ = purple
_ge_ = yellow
_or_ = orange
_rs_ = pink

https://www.automotive-manuals.net/
1.4L engine, CTHD
From November 2012
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- **A** Battery
- **B** Starter
- **J367** Battery monitor control unit
- **J519** Onboard supply control unit
- **J682** Terminal 50 voltage supply relay
- **J710** Voltage supply relay 2

**Symbols:**
- **T1ac** Single connector
- **T1v** Single connector
- **T2fj** 2-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

**Additional Notes:**
- **12** Earth point, on left in engine compartment
- **B571** Connection 38, in main wiring harness
- **B684** Positive connection 24 (30a) in main wiring harness
- **B699** Connection 4 (LIN bus) in main wiring harness
- *Only models with energy recovery*

**Color Codes:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- J329: Terminal 15 voltage supply relay
- SA: Fuse holder A
- SC1: Fuse 1 on fuse holder C
- SA4: Fuse 4 in fuse holder A
- SC: Fuse holder C
- SC10: Fuse 10 on fuse holder C
- SC27: Fuse 27 on fuse holder C

- 507: Threaded connection (30), on battery fuse holder
- 514: Threaded connection 4 (30a) on relay plate
- B290: Positive connection 14 (15a) in main wiring harness
- B291: Positive connection 15 (15a) in main wiring harness
- B330: Positive connection 16 (30a) in main wiring harness
- B571: Connection 38, in main wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Alternator with voltage regulator, Fuse holder A, Fuse holder B

CX1  Alternator with voltage regulator
J519  Onboard supply control unit
SA   Fuse holder A
SA1  Fuse 1 in fuse holder A
SA3  Fuse 3 in fuse holder A
SB   Fuse holder B
SB5  Fuse 5 on fuse holder B
SB11 Fuse 11 on fuse holder B
SB30 Fuse 30 on fuse holder B
SB50 Fuse 30 on fuse holder B
T2gc 2-pin connector
T4a  4-pin connector, near starter
T40  40-pin connector
T52c 52-pin connector

249  Earth connection 2, in interior wiring harness

639  Earth point, left A-pillar
*   Only models with energy recovery
*2  Only models with 140A alternator

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

Passat
Current Flow Diagram
No. 71 / 4

https://www.automotive-manuals.net/
Fuel quality sender, Main relay, Fuse holder B

- **G446** Fuel quality sender
- **J271** Main relay
- **SB** Fuse holder B
- **SB10** Fuse 10 on fuse holder B
- **SB13** Fuse 13 on fuse holder B
- **SB18** Fuse 18 on fuse holder B
- **T40** 40-pin connector

12 Earth point, on left in engine compartment
645 Earth point 1, on bulkhead
652 Earth point, engine and gearbox earth
B325 Positive connection 11 (30a) in main wiring harness

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

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https://www.automotive-manuals.net/
Current Flow Diagram

Engine control unit, Fuse holder B
- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T14a 14-pin connector
- T40 40-pin connector
- T94 94-pin connector

85 Earth connection 1, in engine compartment wiring harness
131 Earth connection 2, in engine compartment wiring harness
645 Earth point 1, on bulkhead
673 Earth point 3, on front of left longitudinal member
D182 Connection 3 (87a), in engine compartment wiring harness

* Only models with dual clutch gearbox (DSG)

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

Passat

https://www.automotive-manuals.net/
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, Spark plug connector, Spark plugs

J623  Engine control unit, central in plenum chamber
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
T4ba  4-pin connector
T4bb  4-pin connector
T4bc  4-pin connector
T4bd  4-pin connector
T14a  14-pin connector
T60   60-pin connector
T94   94-pin connector

15 Earth point, on cylinder head
85  Earth connection 1, in engine compartment wiring harness
281 Earth point 1, engine prewiring harness
D206 Connection 4 (87a) in engine prewiring harness

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
gi = yellow
or = orange
rs = pink
**Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit**

- **G79**: Accelerator position sender
- **G185**: Accelerator position sender 2
- **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
- **J623**: Engine control unit, central in plenum chamber

**Connectors**
- **T6at**: 6-pin connector
- **T6q**: 6-pin connector
- **T60**: 60-pin connector
- **T94**: 94-pin connector

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

**Current Flow Diagram**

Passat

Current Flow Diagram

No. 71 / 8

https://www.automotive-manuals.net/
Engine speed sender, Intake air temperature sender, Intake manifold pressure sender, Intake air temperature sender 2, Intake manifold pressure sender 2, Engine control unit

G28  Engine speed sender
G42  Intake air temperature sender
G71  Intake manifold pressure sender
G299  Intake air temperature sender 2
G429  Intake manifold pressure sender 2
J623  Engine control unit, central in plenum chamber
T3bq  3-pin connector
T4nq  4-pin connector
T4vx  4-pin connector
T60  60-pin connector

D102  Connection 2 in engine compartment wiring harness

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

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Intake air temperature sender 3, Intake manifold pressure sender 3, Regulating flap potentiometer, Engine control unit, Regulating flap control unit, Regulating flap position control motor

G520 Intake air temperature sender 3
G583 Intake manifold pressure sender 3
G584 Regulating flap potentiometer
J623 Engine control unit, central in plenum chamber
J808 Regulating flap control unit
T4nq 4-pin connector
T5ao 5-pin connector
T60 60-pin connector
V380 Regulating flap position control motor

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

D101 Connection 1 in engine compartment wiring harness

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

Passat
Current Flow Diagram
No. 71 / 10

https://www.automotive-manuals.net/
Hall sender, Coolant temperature sender, Radiator outlet coolant temperature sender, Fuel pressure sender, Engine control unit

- G40  Hall sender
- G62  Coolant temperature sender
- G83  Radiator outlet coolant temperature sender, black
- G247 Fuel pressure sender
- J623 Engine control unit, central in plenum chamber
- T3bj 3-pin connector
- T3br 3-pin connector
- T60 60-pin connector
- T94 94-pin connector

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

D101  Connection 1 in engine compartment wiring harness

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ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

J623  Engine control unit, central in plenum chamber
N30  Injector, cylinder 1
N31  Injector, cylinder 2
N32  Injector, cylinder 3
N33  Injector, cylinder 4
T60  60-pin connector

ws = white
sw = black
ro = red
rt = red
br = brown
rn = green
bl = blue
gn = grey
gi = purple
vi = purple
gy = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Knock sensor 1, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

G61  Knock sensor 1
J293 Radiator fan control unit
J623 Engine control unit, central in plenum chamber
T2be 2-pin connector, on lock carrier
T4i  4-pin connector, on lock carrier
T60  60-pin connector
T94  94-pin connector
V7  Radiator fan
V177 Radiator fan 2
671  Earth point 1, on front of left longitudinal member

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

Passat
Current Flow Diagram
No. 71 / 13

https://www.automotive-manuals.net/
Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve

- J527 Steering column electronics control unit
- J623 Engine control unit, central in plenum chamber
- N75 Charge pressure control solenoid valve
- N80 Activated charcoal filter solenoid valve 1
- N205 Camshaft control valve 1
- N249 Turbocharger air recirculation valve
- T14a 14-pin connector
- T16o 16-pin connector
- T60 60-pin connector
- T94 94-pin connector

(B441) Connection (CCS), in main wiring harness
(D196) Connection 2 (87a) in engine prewiring harness

- Only models with adaptive cruise control (ACC)
- Speed signal
- Gradual introduction

Current Flow Diagram No. 71 / 14

Passat

https://www.automotive-manuals.net/
Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

G39  Lambda probe
G130  Lambda probe after catalytic converter
J623  Engine control unit, central in plenum chamber
T4no  4-pin connector
T6w  6-pin connector
T94  94-pin connector
Z19  Lambda probe heater
Z29  Lambda probe 1 heater after catalytic converter

D189  Connection (87a) in engine prewiring harness

Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

G39  Lambda probe
G130  Lambda probe after catalytic converter
J623  Engine control unit, central in plenum chamber
T4no  4-pin connector
T6w  6-pin connector
T94  94-pin connector
Z19  Lambda probe heater
Z29  Lambda probe 1 heater after catalytic converter

D189  Connection (87a) in engine prewiring harness

Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

G39  Lambda probe
G130  Lambda probe after catalytic converter
J623  Engine control unit, central in plenum chamber
T4no  4-pin connector
T6w  6-pin connector
T94  94-pin connector
Z19  Lambda probe heater
Z29  Lambda probe 1 heater after catalytic converter

D189  Connection (87a) in engine prewiring harness
Continued coolant circulation relay, Onboard supply control unit, Engine control unit, Magnetic clutch for supercharger, Continued coolant circulation pump

J151  Continued coolant circulation relay
J519  Onboard supply control unit
J623  Engine control unit, central in plenum chamber
N421  Magnetic clutch for supercharger
T14a  14-pin connector, on left in engine compartment
T52c  52-pin connector
T94   94-pin connector
V51   Continued coolant circulation pump

645   Earth point 1, on bulkhead

B509  Connection 3 (diagnosis), in main wiring harness
B617  Positive connection 5 (87a), in interior wiring harness

Current Flow Diagram
No.  71 /  16

https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Engine control unit, Fuel pressure regulating valve

- Brake light switch
- G476 Clutch position sender
- J519 Onboard supply control unit
- J540 Control unit for electromechanical parking brake
- J623 Engine control unit, central in plenum chamber
- N276 Fuel pressure regulating valve
- T4f 4-pin connector
- T5j 5-pin connector
- T14a 14-pin connector, on left in engine compartment
- T30 30-pin connector
- T52c 52-pin connector
- T60 60-pin connector
- T94 94-pin connector

398 Earth connection 33, in main wiring harness

639 Earth point, left A-pillar

B335 Connection 1 (54), 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

B585 Positive connection 2 (87a), in interior wiring harness

* Only models with manual gearbox
*2 Only models with dual clutch gearbox (DSG)
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

G  Fuel gauge sender
G6  Fuel system pressurisation pump
J519  Onboard supply control unit
J533  Data bus diagnostic interface
J538  Fuel pump control unit
T5a  5-pin connector
T10p  10-pin connector
T16d  16-pin connector, on diagnostic connection
T20e  20-pin connector
T52b  52-pin connector

78  Earth point, lower part of right B-pillar
295  Earth connection 10, in interior 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

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

https://www.automotive-manuals.net/
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

G32 Coolant shortage indicator sender
G169 Fuel gauge sender 2
J285 Control unit in dash panel insert
K Dash panel insert
K2 Alternator warning lamp
K3 Oil pressure warning lamp
K28 Coolant temperature and coolant shortage warning lamp
K31 Cruise control system warning lamp
K105 Reserve fuel warning lamp
T3ai 3-pin connector
T32c 32-pin connector

295 Earth connection 10, in interior wiring harness

* Only models with all-wheel drive

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- **F1**: Oil pressure switch
- **G1**: Fuel gauge
- **G3**: Coolant temperature gauge
- **G5**: Rev. counter
- **G266**: Oil level and oil temperature sender
- **H3**: Buzzer and gong
- **J285**: Control unit in dash panel insert
- **K**: Dash panel insert
- **K38**: Oil level warning lamp
- **K132**: Electronic power control fault lamp
- **T3bu**: 3-pin connector
- **T6e**: 6-pin connector
- **T14a**: 14-pin connector, on left in engine compartment
- **T32c**: 32-pin connector
- **B163**: Positive connection 1 (15), in interior wiring harness

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

Passat

Current Flow Diagram

No. 71 / 20

https://www.automotive-manuals.net/
1.4l petrol engine, CDGA
From November 2012
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

A Battery
B Starter
J367 Battery monitor control unit
J519 Onboard supply control unit
J682 Terminal 50 voltage supply relay
J710 Voltage supply relay 2
T1v Single connector
T2fj 2-pin connector
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector

12 Earth point, on left in engine compartment

(B571) Connection 38, in main wiring harness
(B684) Positive connection 24 (30a) in main wiring harness
(B699) Connection 4 (LIN bus) in main wiring harness

* Only models with energy recovery

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

https://www.automotive-manuals.net/
Terminal 15 voltage supply relay, Fuse holder A, Fuse holder C

- J329 Terminal 15 voltage supply relay
- SA Fuse holder A
- SC Fuse holder C
- SC1 Fuse 1 on fuse holder C
- SC3 Fuse 3 on fuse holder C
- SA4 Fuse 4 in fuse holder A
- SC10 Fuse 10 on fuse holder C
- SC27 Fuse 27 on fuse holder C

- 12 Earth point, on left in engine compartment
- 507 Threaded connection (30), on battery fuse holder
- 514 Threaded connection 4 (30a) on relay plate
- 652 Earth point, engine and gearbox earth
- B290 Positive connection 14 (15a) in main wiring harness
- B291 Positive connection 15 (15a) in main wiring harness
- B330 Positive connection 16 (30a) in main wiring harness
- B571 Connection 38, in main wiring harness

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink
Alternator with voltage regulator, Relay for gas shut-off valves, Fuel tank shut-off valve 1, Fuel tank shut-off valve 2, Fuel tank shut-off valve 3, Fuse holder A, Fuse holder B

CX1 Alternator with voltage regulator
J519 Onboard supply control unit
J908 Relay for gas shut-off valves
N361 Fuel tank shut-off valve 1
N362 Fuel tank shut-off valve 2
N363 Fuel tank shut-off valve 3
SA Fuse holder A
SA1 Fuse 1 in fuse holder A
SA3 Fuse 3 in fuse holder A
SB Fuse holder B
SB17 Fuse 17 on fuse holder B
T2gc 2-pin connector
T4a 4-pin connector, near starter
T6uc 6-pin connector
T14h 14-pin connector
T40 40-pin connector
T52c 52-pin connector

50 Earth point, on left in luggage compartment
359 Earth connection, in gas mode wiring harness
G12 Connection 1 in gas mode wiring harness
G13 Connection 2 in gas mode wiring harness
*
Only models with energy recovery

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vl = purple
ge = yellow
or = orange
rs = pink
Main relay, Fuse holder B, Metering pump

- J271: Main relay
- J364: Auxiliary heater control unit
- SB: Fuse holder B
- SB5: Fuse 5 on fuse holder B
- SB10: Fuse 10 on fuse holder B
- SB11: Fuse 11 on fuse holder B
- SB13: Fuse 13 on fuse holder B
- SB30: Fuse 30 on fuse holder B
- T8ai: 8-pin connector
- T14h: 14-pin connector
- V54: Metering pump

- 50: Earth point, on left in luggage compartment
- 249: Earth connection 2, in interior wiring harness
- 359: Earth connection, in gas mode wiring harness
- 639: Earth point, left A-pillar
- B325: Positive connection 11 (30a) in main wiring harness

* Only models with auxiliary coolant heater

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

https://www.automotive-manuals.net/
Engine control unit, Fuse holder B

- J623 Engine control unit, central in plenum chamber
- SB Fuse holder B
- SB14 Fuse 14 on fuse holder B
- SB16 Fuse 16 on fuse holder B
- SB18 Fuse 18 on fuse holder B
- SB20 Fuse 20 on fuse holder B
- SB24 Fuse 24 on fuse holder B
- T14a 14-pin connector
- T40 40-pin connector
- T94 94-pin connector

- 85 Earth connection 1, in engine compartment wiring harness
- 131 Earth connection 2, in engine compartment wiring harness
- 645 Earth point 1, on bulkhead
- 673 Earth point 3, on front of left longitudinal member
- D182 Connection 3 (87a), in engine compartment wiring harness

Current Flow Diagram

Passat

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https://www.automotive-manuals.net/
Passat

Current Flow Diagram

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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, Spark plug connector, Spark plugs

J623 Engine control unit, central in plenum chamber
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
T4ba 4-pin connector
T4bb 4-pin connector
T4bc 4-pin connector
T4bd 4-pin connector
T14a 14-pin connector
T60 60-pin connector
T94 94-pin connector

15 Earth point, on cylinder head
85 Earth connection 1, in engine compartment wiring harness
281 Earth point 1, engine prewiring harness
D206 Connection 4 (87a) in engine prewiring harness

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

https://www.automotive-manuals.net/
Accelerator pedal module, Throttle valve module, Accelerator position sender, Accelerator position sender 2, Throttle valve drive for electric throttle, Throttle valve drive angle sender 1 for electric throttle, Throttle valve drive angle sender 2 for electric throttle, Engine control unit

GX2  Accelerator pedal module
GX3  Throttle valve module
G79  Accelerator position sender
G185  Accelerator position sender 2
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
J623  Engine control unit, central in plenum chamber
T6at  6-pin connector
T6q  6-pin connector
T60  60-pin connector
T94  94-pin connector
Engine speed sender, Charge pressure sender, Intake air temperature sender, Intake manifold pressure sender, Intake air temperature sender 2, Gas rail sensor, 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
- G401 Gas rail sensor
- J623 Engine control unit, central in plenum chamber
- T3bq 3-pin connector
- T4nq 4-pin connector
- T4vx 4-pin connector
- T14a 14-pin connector, on left in engine compartment
- T60 60-pin connector
- T94 94-pin connector

Earth connection (sender earth), in engine wiring harness

Connection 1 in engine compartment wiring harness

Connection 2 in engine compartment wiring harness

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

Current Flow Diagram

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https://www.automotive-manuals.net/
Intake air temperature sender 3, Intake manifold pressure sender 3, Regulating flap potentiometer, Engine control unit, Regulating flap control unit, Regulating flap position control motor

G520 Intake air temperature sender 3
G583 Intake manifold pressure sender 3
G584 Regulating flap potentiometer
J623 Engine control unit, central in plenum chamber
J808 Regulating flap control unit
T4nr 4-pin connector
T5ao 5-pin connector
T60 60-pin connector
V380 Regulating flap position control motor

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

D101 Connection 1 in engine compartment wiring harness

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

Current Flow Diagram
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Website: https://www.automotive-manuals.net/
Hall sender, Coolant temperature sender, Radiator outlet coolant temperature sender, Fuel pressure sender, Engine control unit

- G40 Hall sender
- G62 Coolant temperature sender
- G83 Radiator outlet coolant temperature sender, black
- G247 Fuel pressure sender
- J623 Engine control unit, central in plenum chamber
- T3bj 3-pin connector
- T3br 3-pin connector
- T60 60-pin connector
- T94 94-pin connector

- 220 Earth connection (sender earth), in engine wiring harness
- D101 Connection 1 in engine compartment wiring harness

Current Flow Diagram

No. 72 / 11
Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

- J623: Engine control unit, central in plenum chamber
- N30: Injector, cylinder 1
- N31: Injector, cylinder 2
- N32: Injector, cylinder 3
- N33: Injector, cylinder 4
- T60: 60-pin connector

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**Current Flow Diagram**

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = purple
- **vi** = purple
- **ge** = yellow
- **or** = orange
- **rs** = pink
Tank pressure sensor, Engine control unit, Gas injection valve 1, Gas injection valve 2, Gas injection valve 3, Gas injection valve 4, High-pressure valve for gas mode

- **G400**: Tank pressure sensor
- **J623**: Engine control unit, central in plenum chamber
- **N366**: Gas injection valve 1
- **N367**: Gas injection valve 2
- **N368**: Gas injection valve 3
- **N369**: Gas injection valve 4
- **N372**: High-pressure valve for gas mode
- **T2lk**: 2-pin connector
- **T3dv**: 3-pin connector
- **T14a**: 14-pin connector, on left in engine compartment
- **T60**: 60-pin connector
- **T94**: 94-pin connector

Connection (gas injector), in engine compartment wiring harness
Knock sensor 1, Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2

G61 Knock sensor 1
J293 Radiator fan control unit
J623 Engine control unit, central in plenum chamber
T2be 2-pin connector, on lock carrier
T4i 4-pin connector, on lock carrier
T60 60-pin connector
T94 94-pin connector
V7 Radiator fan
V177 Radiator fan 2

Earth point 1, on front of left longitudinal member
Passat

Current Flow Diagram

Steering column electronics control unit, Engine control unit, Charge pressure control solenoid valve, Activated charcoal filter solenoid valve 1, Camshaft control valve 1, Turbocharger air recirculation valve

J527  Steering column electronics control unit
J623  Engine control unit, central in plenum chamber
N75   Charge pressure control solenoid valve
N80   Activated charcoal filter solenoid valve 1
N205  Camshaft control valve 1
N249  Turbocharger air recirculation valve
T14a  14-pin connector
T16o  16-pin connector
T60   60-pin connector
T94   94-pin connector
B441  Connection (CCS), in main wiring harness
D196  Connection 2 (87a) in engine prewiring harness
*   Only models with adaptive cruise control (ACC)
*2  Speed signal
*3  gradual introduction

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

https://www.automotive-manuals.net/
Lambda probe, Lambda probe after catalytic converter, Engine control unit, Lambda probe heater, Lambda probe 1 heater after catalytic converter

- **G39**: Lambda probe
- **G130**: Lambda probe after catalytic converter
- **J623**: Engine control unit, central in plenum chamber
- **T4no**: 4-pin connector
- **T6w**: 6-pin connector
- **T94**: 94-pin connector
- **Z19**: Lambda probe heater
- **Z29**: Lambda probe 1 heater after catalytic converter

**Connection (87a) in engine prewiring harness**

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**Legend**:  
- **ws** = white  
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- **rt** = red  
- **br** = brown  
- **gn** = green  
- **bl** = blue  
- **gr** = grey  
- **li** = purple  
- **vi** = purple  
- **ge** = yellow  
- **or** = orange  
- **rs** = pink
Continued coolant circulation relay, Onboard supply control unit, Engine control unit, Magnetic clutch for supercharger, Continued coolant circulation pump

- J151 Continued coolant circulation relay
- J519 Onboard supply control unit
- J623 Engine control unit, central in plenum chamber
- N421 Magnetic clutch for supercharger
- T14a 14-pin connector, on left in engine compartment
- T52c 52-pin connector
- T94 94-pin connector
- V51 Continued coolant circulation pump

- 645 Earth point 1, on bulkhead
- B509 Connection 3 (diagnosis), in main wiring harness
- B617 Positive connection 5 (87a), in interior wiring harness

Current Flow Diagram

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Passat

https://www.automotive-manuals.net/
Brake light switch, Clutch position sender, Engine control unit, Fuel pressure regulating valve

- F: Brake light switch
- G476: Clutch position sender
- J519: Onboard supply control unit
- J540: Control unit for electromechanical parking brake
- J623: Engine control unit, central in plenum chamber
- N276: Fuel pressure regulating valve
- T4f: 4-pin connector
- T5j: 5-pin connector
- T14a: 14-pin connector, on left in engine compartment
- T30: 30-pin connector
- T52c: 52-pin connector
- T60: 60-pin connector
- T94: 94-pin connector

- 398: Earth connection 33, in main wiring harness
- 639: Earth point, left A-pillar
- B335: Connection 1 (54), 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
- B585: Positive connection 2 (87a), in interior wiring harness

* Only models with manual gearbox

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Brake light switch</td>
</tr>
<tr>
<td>G476</td>
<td>Clutch position sender</td>
</tr>
<tr>
<td>J519</td>
<td>Onboard supply control unit</td>
</tr>
<tr>
<td>J540</td>
<td>Control unit for electromechanical parking brake</td>
</tr>
<tr>
<td>J623</td>
<td>Engine control unit, central in plenum chamber</td>
</tr>
<tr>
<td>N276</td>
<td>Fuel pressure regulating valve</td>
</tr>
<tr>
<td>T4f</td>
<td>4-pin connector</td>
</tr>
<tr>
<td>T5j</td>
<td>5-pin connector</td>
</tr>
<tr>
<td>T14a</td>
<td>14-pin connector, on left in engine compartment</td>
</tr>
<tr>
<td>T30</td>
<td>30-pin connector</td>
</tr>
<tr>
<td>T52c</td>
<td>52-pin connector</td>
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<tr>
<td>T60</td>
<td>60-pin connector</td>
</tr>
<tr>
<td>T94</td>
<td>94-pin connector</td>
</tr>
</tbody>
</table>

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

https://www.automotive-manuals.net/
Fuel gauge sender, Fuel system pressurisation pump, Onboard supply control unit, Data bus diagnostic interface, Fuel pump control unit

- **G** Fuel gauge sender
- **G6** Fuel system pressurisation pump
- **J519** Onboard supply control unit
- **J533** Data bus diagnostic interface
- **J538** Fuel pump control unit
- **T5a** 5-pin connector
- **T5an** 5-pin connector
- **T10p** 10-pin connector
- **T14h** 14-pin connector
- **T16d** 16-pin connector, on diagnostic connection
- **T20e** 20-pin connector
- **T52b** 52-pin connector

**295** Earth connection 10, in interior 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

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

https://www.automotive-manuals.net/
Coolant shortage indicator sender, Fuel gauge sender 2, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Cruise control system warning lamp, Reserve fuel warning lamp

G32 Coolant shortage indicator sender
G169 Fuel gauge sender 2
J285 Control unit in dash panel insert
K Dash panel insert
K2 Alternator warning lamp
K3 Oil pressure warning lamp
K28 Coolant temperature and coolant shortage warning lamp
K31 Cruise control system warning lamp
K105 Reserve fuel warning lamp
T3ai 3-pin connector
T32c 32-pin connector

295 Earth connection 10, in interior wiring harness
* Only models with all-wheel drive

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel gauge, Coolant temperature gauge, Rev. counter, Oil level and oil temperature sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Oil level warning lamp, Electronic power control fault lamp

- **F1** Oil pressure switch
- **G1** Fuel gauge
- **G3** Coolant temperature gauge
- **G5** Rev. counter
- **G266** Oil level and oil temperature sender
- **H3** Buzzer and gong
- **J285** Control unit in dash panel insert
- **K** Dash panel insert
- **K38** Oil level warning lamp
- **K132** Electronic power control fault lamp
- **T3bu** 3-pin connector
- **T6e** 6-pin connector
- **T14a** 14-pin connector, on left in engine compartment
- **T32c** 32-pin connector
- **B163** Positive connection 1 (15), in interior wiring harness

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

**Passat**

Current Flow Diagram

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)