Anti-Lock Brake System (ABS) with ASR, (1AS), (1AT)
from July 2008
Left front ABS wheel speed sensor, ABS control module, Terminal 15 power supply relay, Fuse panel B, Fuse panel C

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Battery</td>
</tr>
<tr>
<td>B</td>
<td>Starter</td>
</tr>
<tr>
<td>G47</td>
<td>Left front ABS wheel speed sensor</td>
</tr>
<tr>
<td>J104</td>
<td>ABS control module, in the engine compartment, right</td>
</tr>
<tr>
<td>J329</td>
<td>Terminal 15 power supply relay</td>
</tr>
<tr>
<td>J682</td>
<td>Terminal 50 power supply relay</td>
</tr>
<tr>
<td>N133</td>
<td>Right rear ABS inlet valve</td>
</tr>
<tr>
<td>N134</td>
<td>Left rear ABS inlet valve</td>
</tr>
<tr>
<td>N136</td>
<td>Left rear ABS outlet valve</td>
</tr>
<tr>
<td>SB</td>
<td>Fuse panel B</td>
</tr>
<tr>
<td>SC2</td>
<td>Fuse 2 (on fuse panel C)</td>
</tr>
<tr>
<td>SC4</td>
<td>Fuse 4 (on fuse panel C)</td>
</tr>
<tr>
<td>SB7</td>
<td>Fuse 7 (on fuse panel B)</td>
</tr>
<tr>
<td>SB25</td>
<td>Fuse 25 (on fuse panel B)</td>
</tr>
<tr>
<td>SC</td>
<td>Fuse panel C</td>
</tr>
<tr>
<td>T26a</td>
<td>26-pin connector</td>
</tr>
<tr>
<td>T40</td>
<td>40-pin connector</td>
</tr>
</tbody>
</table>

- Terminal 30 threaded connection (on E-box)
- Positive connection 8 (15a) (in instrument panel wiring harness)
- Positive connection 1 (15) (in interior wiring harness)
- Positive connection 2 (15a) (in main wiring harness)
- Left front speed sensor positive connection (in engine compartment wiring harness)
- Left front speed sensor negative connection (in engine compartment wiring harness)
- Only for vehicles without brake pad wear indicator
- Only for vehicles with brake pad wear indicator
- Only for vehicles with tire pressure monitoring

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
ASR switch, Right rear ABS wheel speed sensor, Right front ABS wheel speed sensor, Left rear ABS wheel speed sensor, ABS control module

- E132 ASR switch
- G44 Right rear ABS wheel speed sensor
- G45 Right front ABS wheel speed sensor
- G46 Left rear ABS wheel speed sensor
- J104 ABS control module, in the engine compartment, right
- L71 ASR switch illumination bulb
- N99 Right front ABS inlet valve
- N101 Left front ABS inlet valve
- N102 Left front ABS outlet valve
- N135 Right rear ABS outlet valve
- N225 Driving dynamics regulation switch valve 1
- N226 Driving dynamics regulation switch valve 2
- T6ad 6-pin connector
- T26a 26-pin connector
- V64 ABS hydraulic pump

- Ground connection in right front footwell
- Ground connection 1 (in main wiring harness)
- Ground connection 23 (in main wiring harness)
- Left rear speed sensor positive connection (in engine compartment wiring harness)
- Left rear speed sensor negative connection (in engine compartment wiring harness)
- Right rear speed sensor positive connection (in engine compartment wiring harness)
- Right rear speed sensor negative connection (in engine compartment wiring harness)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Tire pressure monitoring display button, ABS control module, Vehicle electrical control module system

- E492  Tire pressure monitoring display button
- F  Brake lamp switch
- J104  ABS control module, in the engine compartment, right
- J519  Vehicle electrical control module system
- J623  Engine control module
- L76  Push button illumination control system
- N100  Right front ABS outlet valve
- T4bc  4-pin connector
- T6ak  6-pin connector
- T26a  26-pin connector
- T52b  52-pin connector
- T52c  52-pin connector

- 388  Ground connection 23 (in main wiring harness)
- 638  Ground connection on right A-pillar
- B131  Connection 54 (in interior wiring harness)
- B340  Connection 58d (in main wiring harness) 1
- B383  Powertrain CAN bus high connection 1 (in main wiring harness)
- B390  Powertrain CAN bus low connection 1 (in main wiring harness)

* Only for vehicles with tire pressure monitoring
*2 Only for vehicles with a speech recognition system

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

https://www.automotive-manuals.net/
Parking brake indicator lamp switch, Left front brake pad wear sensor, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface, ABS indicator lamp, Traction control indicator lamp, Brake system indicator lamp, Tire pressure monitoring display indicator lamp

- F9 Parking brake indicator lamp switch
- G34 Left front brake pad wear sensor
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- K47 ABS indicator lamp
- K86 Traction control indicator lamp
- K118 Brake system indicator lamp
- K220 Tire pressure monitoring display indicator lamp
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

(B379) Brake wear indicator connection 1 (in main wiring harness)

(B383) Powertrain CAN bus high connection 1 (in main wiring harness)

(B390) Powertrain CAN bus low connection 1 (in main wiring harness)

(B397) Comfort system CAN bus high connection 1 (in main wiring harness)

(B398) Comfort system CAN bus high connection 2 (in main wiring harness)

(B406) Comfort system CAN bus low connection 1 (in main wiring harness)

(B407) Comfort system CAN bus low connection 2 (in main wiring harness)

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

* Only for vehicles with brake pad wear indicator

https://www.automotive-manuals.net/
Brake fluid level warning switch, Instrument cluster control module

- **F34**: Brake fluid level warning switch
- **J285**: Instrument cluster control module
- **T32**: 32-pin connector
- **44**: Ground connection on A-pillar, lower left
- **367**: Ground connection 2 (in main wiring harness)
- **376**: Ground connection 11 (in main wiring harness)
- **381**: Ground connection 16 (in main wiring harness)
- **389**: Ground connection 24 (in main wiring harness)
- **605**: Ground connection on upper steering column
- **655**: Ground connection on left headlamp
- **B380**: Brake wear indicator connection 2 (in main wiring harness)

* Only for vehicles with brake pad wear indicator

Legend:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
ABS control module, Terminal 15 power supply relay, Fuse panel B, Fuse panel C

A Battery
B Starter
J104 ABS control module, in the engine compartment, right
J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
J906 Starter relay 1
N225 Driving dynamics regulation switch valve 1
SB Fuse panel B
SC Fuse panel C
SC2 Fuse 2 (on fuse panel C)
SC4 Fuse 4 (on fuse panel C)
SB4 Fuse 4 (on fuse panel B)
SB7 Fuse 7 (on fuse panel B)
SB25 Fuse 25 (on fuse panel B)
T40 40-pin connector
T47c 47-pin connector

508 Terminal 30 threaded connection (on E-box)
A217 Positive connection 8 (15a) (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)
B278 Positive connection 2 (15a) (in main wiring harness)
* Only for vehicles with tire pressure monitoring

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

https://www.automotive-manuals.net/
Right rear ABS wheel speed sensor, Right front ABS wheel speed sensor, Left rear ABS wheel speed sensor, Left front ABS wheel speed sensor, Vacuum sensor, ABS control module

- G44: Right rear ABS wheel speed sensor
- G45: Right front ABS wheel speed sensor
- G46: Left rear ABS wheel speed sensor
- G47: Left front ABS wheel speed sensor
- G201: Brake pressure sensor 1
- G608: Vacuum sensor
- J104: ABS control module, in the engine compartment, right
- N133: Right rear ABS inlet valve
- N134: Right rear ABS outlet valve
- N135: Right rear ABS outlet valve
- N136: Left rear ABS outlet valve
- N226: Driving dynamics regulation switch valve 2
- T4bn: 4-pin connector
- T47c: 47-pin connector
- V64: ABS hydraulic pump

Ground connection on right A-pillar

- D146: Left rear speed sensor positive connection (in engine compartment wiring harness)
- D147: Left rear speed sensor negative connection (in engine compartment wiring harness)
- D148: Right rear speed sensor positive connection (in engine compartment wiring harness)
- D149: Right rear speed sensor negative connection (in engine compartment wiring harness)
- D184: Left front speed sensor positive connection (in engine compartment wiring harness)
- D185: Left front speed sensor negative connection (in engine compartment wiring harness)

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

* Only for vehicles with a hydraulic brake booster
*2 Only for vehicles without brake pad wear indicator

https://www.automotive-manuals.net/
ASR/ESP button, Tire pressure monitoring display button, ABS control module

- E256  ASR/ESP button
- E492  Tire pressure monitoring display button
- G200  Transverse acceleration sensor
- G202  Rotation rate sensor
- J104  ABS control module, in the engine compartment, right
- L76   Push button illumination bulb
- N99   Right front ABS inlet valve
- N100  Right front ABS outlet valve
- N101  Left front ABS inlet valve
- N102  Left front ABS outlet valve
- N227  Driving dynamics regulation high pressure switch valve 1
- N228  Driving dynamics regulation high pressure switch valve 2
- T6ad  6-pin connector
- T6ak  6-pin connector
- T47c  47-pin connector

* Only for vehicles without Start/Stop system
*2 Only for vehicles with tire pressure monitoring
*3 Only for vehicles with Start/Stop system

- **Golf** Wiring Diagram

- No. 5/4

https://www.automotive-manuals.net/
Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- F  Brake lamp switch
- J285  Instrument cluster control module
- J519  Vehicle electrical control module system
- J533  Data bus on board diagnostic interface, in the left footwell, near the center console
- J623  Engine control module
- T4bc  4-pin connector
- T16  16-pin connector
- T20  20-pin connector
- T32  32-pin connector
- T52b  52-pin connector
- T52c  52-pin connector
- U31  Diagnostic connection

- B131  Connection 54 (in interior wiring harness)
- B330  Connection 58d (in main wiring harness) 1
- B383  Powertrain CAN bus high connection 1 (in main wiring harness)
- B390  Powertrain CAN bus low connection 1 (in main wiring harness)
- B397  Comfort system CAN bus high connection 1 (in main wiring harness)
- B398  Comfort system CAN bus high connection 2 (in main wiring harness)
- B406  Comfort system CAN bus low connection 1 (in main wiring harness)
- B407  Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with tire pressure monitoring

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

https://www.automotive-manuals.net/
Brake fluid level warning switch, Left front brake pad wear sensor, Warning buzzer and tone, Instrument cluster control module, ABS indicator lamp, Brake system indicator lamp, ASR/ESP indicator lamp, Tire pressure monitoring display indicator lamp

- **F9** Parking brake indicator lamp switch
- **F34** Brake fluid level warning switch
- **G34** Left front brake pad wear sensor
- **H3** Warning buzzer and tone
- **J285** Instrument cluster control module
- **K47** ABS indicator lamp
- **K118** Brake system indicator lamp
- **K155** ASR/ESP indicator lamp
- **K220** Tire pressure monitoring display indicator lamp
- **T32** 32-pin connector

- **44** Ground connection on A-pillar, lower left
- **367** Ground connection 2 (in main wiring harness)
- **376** Ground connection 11 (in main wiring harness)
- **381** Ground connection 16 (in main wiring harness)
- **389** Ground connection 24 (in main wiring harness)
- **605** Ground connection on upper steering column
- **655** Ground connection on left headlamp
- **B379** Brake wear indicator connection 1 (in main wiring harness)
- **B380** Brake wear indicator connection 2 (in main wiring harness)

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

*Only for vehicles with brake pad wear indicator*
Steering angle sensor, Steering column electronics control module

- **G85**  Steering angle sensor
- **J527**  Steering column electronics control module
- **T20d**  20-pin connector

**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Coolant fan
from July 2008
Battery, Motronic engine control module power supply relay, Coolant fan control module, Terminal 30 power supply relay, Fuse 1 (on fuse panel A), Fuse 3 (on fuse panel A), Fuse panel B

A Battery
B Starter
C Generator

J271 Motronic engine control module power supply relay, on the E-box in the engine compartment
J293 Coolant fan control module
J317 Terminal 30 power supply relay, on the E-box in the engine compartment
J623 Engine control module
SA1 Fuse 1 (on fuse panel A)
SA3 Fuse 3 (on fuse panel A)
SB Fuse panel B
SB24 Fuse 24 (on fuse panel B)
T4x 4-pin connector
T14a 14-pin connector
T40 40-pin connector

1 Ground strap, battery to body
14 Ground connection on transmission
508 Terminal 30 threaded connection (on E-box)
652 Transmission/engine ground connection
D111 Connection 9 (in engine compartment wiring harness)
D180 Connection 87a (in engine compartment wiring harness)

* Refer to applicable engine wiring diagram
*2 Only for vehicles with 90 A/120 A generator
*3 Only for vehicles with a generator (140 A)

ws = white
sw = black
ro = red
rt = red
br = brown
bn = green
bl = blue
gn = grey
vi = lilac
ge = yellow
or = orange
rs = pink
Coolant fan control module, Coolant fan, Coolant fan 2

- J293: Coolant fan control module
- T2v: Double connector
- T4x: 4-pin connector
- V7: Coolant fan
- V177: Coolant fan 2

- 642: Electronic fan control ground connection
- * Only for vehicles with increased fan output

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

https://www.automotive-manuals.net/
Power socket 230V
from July 2008
Inverter switch, Vehicle electrical system control module, 
Socket indicator lamp, Fuse 1 (on fuse panel A), Fuse panel 
B, Fuse panel C, Converter with socket, 12 V-230 V

A  Battery
B  Starter
C  Generator
E136  Inverter switch
J519  Vehicle electrical system control module
K76  Socket indicator lamp
SA1  Fuse 1 (on fuse panel A)
SB  Fuse panel B
SB29  Fuse 29 (on fuse panel B)
SC  Fuse panel C
SC32  Fuse 32 (on fuse panel C)
T2c  Double connector
T3x  3-pin connector
T40  40-pin connector
U13  Converter with socket, 12 V-230 V

508  Terminal 30 threaded connection (on E-box)
602  Ground connection in left front footwell
B111  Positive connection 1 (30a) (in interior wiring harness)
B177  Connection 61 (in interior wiring harness)
*  Only for vehicles with 90 A/120 A generator
*2  Only for vehicles with a generator (140 A)

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

https://www.automotive-manuals.net/
Seats, heated, (4A3)
from July 2008
Terminal 15 power supply relay, Vehicle electrical control module system, Fuse panel B, Fuse panel C

A Battery
B Starter
J329 Terminal 15 power supply relay
J519 Vehicle electrical control module system
J682 Terminal 50 power supply relay
J906 Starter relay 1
SB Fuse panel B
SC Fuse panel C
SC4 Fuse 4 (on fuse panel C)
SB7 Fuse 7 (on fuse panel B)
SB29 Fuse 29 (on fuse panel B)
SC37 Fuse 37 (on fuse panel C)
SB49 Fuse 49 (on fuse panel B)
SB53 Fuse 53 (on fuse panel B)
T40 40-pin connector
T52b 52-pin connector

508 Terminal 30 threaded connection (on E-box)
A217 Positive connection 8 (15a) (in instrument panel wiring harness)
B111 Positive connection 1 (30a) (in interior wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)

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

from November 2009
Through October 2009
E-Box low
E-Box high
Only for vehicles without an A/C system
Heated driver seat temperature sensor, Vehicle electrical control module system, Front seat heating control module, Driver seat heating element, Driver backrest heating element

- **G59** Heated driver seat temperature sensor
- **J519** Vehicle electrical control module system
- **J774** Front seat heating control module, under the driver seat
- **T2d** Double connector, under the driver seat
- **T4l** 4-pin connector, under the driver seat
- **T8z** 8-pin connector
- **T10a** 10-pin connector, under the driver seat
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **Z6** Driver seat heating element
- **Z7** Driver backrest heating element

- **44** Ground connection on A-pillar, lower left
- **96** Ground connection 1 (in heated seats wiring harness)
- **367** Ground connection 2 (in main wiring harness)
- **605** Ground connection on upper steering column
- **M44** Connection 4 (in driver seat wiring harness)
- **M45** Connection 5 (in driver seat wiring harness)
- **O1** Positive connection (30) (in heated seats wiring harness)

* from November 2010

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

https://www.automotive-manuals.net/
Heated driver seat adjuster, Heated front passenger seat adjuster, Front passenger heated seat temperature sensor, Front passenger seat heating element, Front passenger backrest heating element

- **E16**: Heater/heat output switch
- **E94**: Heated driver seat adjuster
- **E95**: Heated front passenger seat adjuster
- **G60**: Front passenger heated seat temperature sensor
- **J255**: Climatronic control module
- **J301**: A/C control module
- **T2e**: Double connector, under the front passenger seat
- **T4m**: 4-pin connector, under the front passenger seat
- **T10a**: 10-pin connector, under the driver seat
- **T10b**: 10-pin connector, under the front passenger seat
- **T20c**: 20-pin connector
- **T20p**: 20-pin connector
- **T20q**: 20-pin connector
- **Z8**: Front passenger seat heating element
- **Z9**: Front passenger backrest heating element

- **43**: Ground connection on A-pillar, lower right
- **145**: Ground connection 3 (in heated seats wiring harness)
- **M54**: Connection 4 (in front passenger seats wiring harness)
- **O15**: Connection 4 (in heated seats wiring harness)

* Only for vehicles without an A/C system
*2 Only for vehicles with Climatronic
*3 Only for vehicles with Climatic

---

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

[Source: https://www.automotive-manuals.net/]
Lumbar support adjustment, without power seat adjustment
from July 2008
Driver seat lumbar support adjustment switch, Fuse panel B, Fuse panel C, Driver seat lumbar support height adjustment motor

- A Battery
- B Starter
- C Generator
- E176 Driver seat lumbar support adjustment switch
- SA1 Fuse 1 (on fuse panel A)
- SB Fuse panel B
- SB29 Fuse 29 (on fuse panel B)
- SC Fuse panel C
- SC34 Fuse 34 (on fuse panel C)
- T4r 4-pin connector
- T6ah 6-pin connector
- T10a 10-pin connector, under the driver seat
- T40 40-pin connector
- V125 Driver seat lumbar support curvature adjustment motor
- V129 Driver seat lumbar support height adjustment motor

- 44 Ground connection on A-pillar, lower left
- 96 Ground connection 1 (in heated seats wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- M9 Connection (in seat adjustment wiring harness)

* Only for vehicles with a generator (140 A)
*2 Only for vehicles without heated seats
*3 Only for vehicles with an auxiliary heater
*4 Depending on equipment

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

https://www.automotive-manuals.net/
Front passenger seat lumbar support adjustment switch, Front passenger seat lumbar support curvature adjustment motor, Front passenger seat lumbar support height adjustment motor

E177 Front passenger seat lumbar support adjustment switch
T4s 4-pin connector, under the front passenger seat
T6ai 6-pin connector
T10b 10-pin connector, under the front passenger seat
V126 Front passenger seat lumbar support curvature adjustment motor
V130 Front passenger seat lumbar support height adjustment motor

47 Ground connection in right front footwell

145 Ground connection 3 (in heated seats wiring harness)

M9 Connection (in seat adjustment wiring harness)

Depending on equipment

*2 Only for vehicles without heated seats

*3 Only for vehicles with an auxiliary heater

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

https://www.automotive-manuals.net/
Seat lumbar adjustment with power seats
from August 2010
Seat forward/back adjustment button, Angle adjustment button, Seat height adjustment button, Backrest adjustment button, Fuse panel B, Driver power seat adjustment circuit breaker 1, Fuse panel C, Driver seat forward/back adjustment motor, Driver backrest adjustment motor, Driver seat height adjustment motor, Seat angle adjustment motor

A Battery
B Starter
E418 Seat forward/back adjustment button
E421 Angle adjustment button
E424 Seat height adjustment button
E425 Backrest adjustment button
SB Fuse panel B
SB29 Fuse 29 (on fuse panel B)
S44 Driver power seat adjustment circuit breaker 1
SB53 Fuse 53 (on fuse panel B)
SC Fuse panel C
SC34 Fuse 34 (on fuse panel C)
T4c 4-pin connector
T4e 4-pin connector
T4i 4-pin connector
T4w 4-pin connector
T6bz 6-pin connector, under the driver seat
T10a 10-pin connector, under the driver seat
T10ac 10-pin connector
T40 40-pin connector
V28 Driver seat forward/back adjustment motor
V45 Driver backrest adjustment motor
V138 Driver seat height adjustment motor
V231 Seat angle adjustment motor
96 Ground connection 1 (in heated seats wiring harness)
508 Terminal 30 threaded connection (on E-box)
B111 Positive connection 1 (30a) (in interior wiring harness)
M1 Positive connection 1 (30) (in seat adjustment wiring harness)
* E-Box low
*2 E-Box high

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

https://www.automotive-manuals.net/
Driver seat lumbar support adjustment switch, Front passenger seat lumbar support adjustment switch, Front passenger seat lumbar support curvature 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
T4s   4-pin connector, under the front passenger seat
T6ah  6-pin connector
T6ai  6-pin connector
T6bz  6-pin connector, under the driver seat
T10a  10-pin connector, under the front passenger seat
T10b  10-pin connector, under the driver seat
V125  Driver seat lumbar support curvature adjustment motor
V126  Front passenger seat lumbar support curvature adjustment motor
V129  Driver seat lumbar support height adjustment motor
V130  Front passenger seat lumbar support height adjustment motor

44  Ground connection on A-pillar, lower left
47  Ground connection in right front footwell
96  Ground connection 1 (in heated seats wiring harness)
145 Ground connection 3 (in heated seats wiring harness)
B328 Positive connection 14 (30a) (in main wiring harness)
* Only for vehicles with an auxiliary heater
*2 Only for vehicles without heated seats

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

https://www.automotive-manuals.net/
Parking distance control without parallel parking assistance (park assist), (7X1),(7X2)
from July 2008
Terminal 15 power supply relay, Fuse 4 (on fuse panel C), Fuse 7 (on fuse panel B)

A Battery
B Starter
J329 Terminal 15 power supply relay
J519 Vehicle electrical control module system
J682 Terminal 50 power supply relay
J906 Starter relay 1
SC4 Fuse 4 (on fuse panel C)
SB7 Fuse 7 (on fuse panel B)
T40 40-pin connector
T52b 52-pin connector
T52c 52-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
605 Ground connection on upper steering column
A217 Positive connection 8 (15a) (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vt = lilac
ge = yellow
or = orange
rs = pink
Left rear parking aid sensor, Left rear center parking aid sensor, Right rear center parking aid sensor, Right rear parking aid sensor, Rear parking aid warning buzzer, Parking aid control module

- G203 Left rear parking aid sensor
- G204 Left rear center parking aid sensor
- G205 Right rear center parking aid sensor
- G206 Right rear parking aid sensor
- H15 Rear parking aid warning buzzer
- J446 Parking aid control module, behind the instrument panel, left
- T3ba 3-pin connector
- T3bb 3-pin connector
- T3bc 3-pin connector
- T3bd 3-pin connector
- T8l 8-pin connector, behind the right rear bumper
- T12n 12-pin connector
- T16h 16-pin connector
- 352 Parking aid ground connection (in rear bumper wiring harness)
- X68 Parking aid connection (in rear bumper wiring harness)

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

https://www.automotive-manuals.net/
Parking aid button, Front parking aid warning buzzer, Parking aid control module, Data bus on board diagnostic interface

- **E266** Parking aid button
- **H22** Front parking aid warning buzzer
- **J446** Parking aid control module, behind the instrument panel, left
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **K136** Parking aid indicator lamp
- **L76** Push button illumination bulb
- **T6au** 6-pin connector
- **T12v** 12-pin connector
- **T16h** 16-pin connector
- **T20** 20-pin connector
- **47** Ground connection in right front footwell
- **366** Ground connection 1 (in main wiring harness)
- **388** Ground connection 23 (in main wiring harness)
- **394** Ground connection 29 (in main wiring harness)
- **B340** Connection 58d (in main wiring harness) 1
- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>Ground connection 29 (in main wiring harness)</td>
</tr>
<tr>
<td>30</td>
<td>Ground connection 30 (in main wiring harness)</td>
</tr>
<tr>
<td>31</td>
<td>Ground connection 31 (in main wiring harness)</td>
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<tr>
<td>32</td>
<td>Ground connection 32 (in main wiring harness)</td>
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<tr>
<td>33</td>
<td>Ground connection 33 (in main wiring harness)</td>
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<td>34</td>
<td>Ground connection 34 (in main wiring harness)</td>
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<tr>
<td>35</td>
<td>Ground connection 35 (in main wiring harness)</td>
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<td>36</td>
<td>Ground connection 36 (in main wiring harness)</td>
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<td>37</td>
<td>Ground connection 37 (in main wiring harness)</td>
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<td>38</td>
<td>Ground connection 38 (in main wiring harness)</td>
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<td>39</td>
<td>Ground connection 39 (in main wiring harness)</td>
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<td>40</td>
<td>Ground connection 40 (in main wiring harness)</td>
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<tr>
<td>41</td>
<td>Ground connection 41 (in main wiring harness)</td>
</tr>
<tr>
<td>42</td>
<td>Ground connection 42 (in main wiring harness)</td>
</tr>
</tbody>
</table>

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

https://www.automotive-manuals.net/
Right front parking aid sensor, Right front center parking aid sensor, Left front center parking aid sensor, Left front parking aid sensor, Parking aid control module

- **G252** Right front parking aid sensor
- **G253** Right front center parking aid sensor
- **G254** Left front center parking aid sensor
- **G255** Left front parking aid sensor
- **J446** Parking aid control module, behind the instrument panel, left
- **T3bi** 3-pin connector
- **T3bj** 3-pin connector
- **T3bk** 3-pin connector
- **T3bl** 3-pin connector
- **T8w** 8-pin connector, near the left headlamp
- **T12v** 12-pin connector

- **348** Parking aid ground connection (in front bumper wiring harness)
- **X65** Parking aid connection (in front bumper wiring harness)

---

*Legend:*

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **bl** = blue
- **gn** = green
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Cell phone system
from July 2008
Terminal 15 power supply relay, Voltage stabilizer, Fuse panel B, Fuse 2 (on fuse panel C), Fuse 48 (on fuse panel C)

- A Battery
- B Starter
- J329 Terminal 15 power supply relay
- J532 Voltage stabilizer
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SC2 Fuse 2 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SB9 Fuse 9 (on fuse panel B)
- SC48 Fuse 48 (on fuse panel C)
- T10ah 10-pin connector
- T40 40-pin connector

47 Ground connection in right front footwell
366 Ground connection 1 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
B163 Positive connection 1 (15) (in interior wiring harness)
B278 Positive connection 2 (15a) (in main wiring harness)
B320 Positive connection 6 (30a) (in main wiring harness)

* Through October 2009
*2 from November 2009
*3 Only for vehicles with Start/Stop system
*4 Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
Cell phone operating electronics control module, Radio/navigation display unit control module, Voltage stabilizer, Data bus on board diagnostic interface, Radio

- J412 Cell phone operating electronics control module, in the right front footwell
- J503 Radio/navigation display unit control module
- J519 Vehicle electrical control module system
- J532 Voltage stabilizer
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J682 Terminal 50 power supply relay
- J907 Starter relay 2
- R Radio

Connectors:
- T10ah 10-pin connector
- T16b 16-pin connector
- T20 20-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T54 54-pin connector

Ground Connections:
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 605 Ground connection on upper steering column

Infotainment CAN bus:
- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)

Positive Connections:
- B321 Positive connection 7 (30a) (in main wiring harness)

Diagnostic Terminal:
- B660 Diagnostic terminal 50 connection (in main wiring harness)

* Only for vehicles with Start/Stop system
*2 Only for vehicles without Start/Stop system

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- bl = blue
- gn = green
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Cell phone operating electronics control module, Radio/navigation display unit control module, Radio, Telephone microphone

J412  Cell phone operating electronics control module, in the right front footwell
J503  Radio/navigation display unit control module
R    Radio
R38  Telephone microphone
T2f  Double connector, near the front interior lamp
T12g 12-pin connector
T54  54-pin connector
*    Only with radio navigation system and voice recognition system
*2   Depending on equipment

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

https://www.automotive-manuals.net/
Telematics button module, Cell phone operating electronics control module

- E275 Roadside assistance button
- E276 Emergency call button
- E450 Information service button
- E734 Telematics button module
- J412 Cell phone operating electronics control module, in the right front footwell
- L76 Push button illumination bulb
- T6at 6-pin connector, near the front interior lamp
- T54 54-pin connector
- 249 Ground connection 2 (in interior wiring harness)
- 610 Audio ground connection under front center console
- B340 Connection 58d (in main wiring harness) 1
  * Depending on equipment
  *2 Only for vehicles with button module
  *3 Only for vehicles with telephone charging station

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

https://www.automotive-manuals.net/
Cell phone operating electronics control module, Roof antenna, Telephone antenna, Telephone baseplate, Auxiliary engine coolant heater radio frequency receiver, Auxiliary heater antenna

J412  Cell phone operating electronics control module, in the right front footwell
RX5   Roof antenna
R50   GPS antenna
R65   Telephone antenna
R126  Telephone baseplate
R149  Auxiliary engine coolant heater radio frequency receiver
R182  Auxiliary heater antenna
T2ay  Double connector, near the roof antenna
T2az  Double connector, near the roof antenna
T2ce  Double connector, behind the glove compartment
T2m   Double connector, near the roof antenna
T10f  10-pin connector, behind the glove compartment
T16t  16-pin connector
T54   54-pin connector
* Only for vehicles with auxiliary water heater
*2 Only for vehicles with telephone charging station and cell phone operating electronics control module
*3 Only for vehicles with telephone charging station

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

https://www.automotive-manuals.net/
Washer system, headlamps, (8X1)
from July 2008
Headlamp washer relay, Steering column electronics control module, Data bus on board diagnostic interface, Fuse 1 (on fuse panel A), Fuse 29 (on fuse panel B), Fuse 36 (on fuse panel C), Headlamp washer pump

- **A** Battery
- **B** Starter
- **C** Generator
- **J39** Headlamp washer relay
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console

**SA1** Fuse 1 (on fuse panel A)
**SB29** Fuse 29 (on fuse panel B)
**SC36** Fuse 36 (on fuse panel C)

**T20** 20-pin connector
**T20d** 20-pin connector
**T40** 40-pin connector
**T52b** 52-pin connector
**T52c** 52-pin connector

**V11** Headlamp washer pump

**508** Terminal 30 threaded connection (on E-box)
**656** Ground connection on right headlamp

**A98** Positive connection 4 (30) (in instrument panel wiring harness)
**B111** Positive connection 1 (30a) (in interior wiring harness)

**B397** Comfort system CAN bus high connection 1 (in main wiring harness)
**B398** Comfort system CAN bus high connection 2 (in main wiring harness)

**B406** Comfort system CAN bus low connection 1 (in main wiring harness)
**B407** Comfort system CAN bus low connection 2 (in main wiring harness)

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

* Through October 2009
*2 from November 2009
*3 Only for vehicles with 90 A/120 A generator
*4 Only for vehicles with a generator (140 A)
Wiring Diagram

Windshield wiper intermittent mode switch, Rear window wiper switch, Windshield and headlamp washer pump switch, Windshield washer fluid level sensor, Instrument cluster control module, Steering column electronics control module, Windshield washer fluid level indicator lamp

- E22 Windshield wiper intermittent mode switch
- E34 Rear window wiper switch
- E44 Windshield and headlamp washer pump switch
- G33 Windshield washer fluid level sensor
- J285 Instrument cluster control module
- J527 Steering column electronics control module
- K Instrument cluster
- K37 Windshield washer fluid level indicator lamp
- T8y 8-pin connector
- T20d 20-pin connector
- T32 32-pin connector
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 410 Sensor ground connection 1 (in main wiring harness)
- 605 Ground connection on upper steering column

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

https://www.automotive-manuals.net/
Climatic, (KH6), (9AP)
from July 2008
Load reduction relay, A/C control module, A/C compressor regulator valve, Fuse panel C

E30  A/C switch
J59  Load reduction relay
J301 A/C control module, in the instrument panel, center
J485 Parking heater operation relay
K84  A/C system indicator lamp
N280 A/C compressor regulator valve
SC  Fuse panel C
SC14 Fuse 14 (on fuse panel C)
SC40 Fuse 40 (on fuse panel C)
T4t  4-pin connector, near the starter
T5gi 5-pin connector
T10k 10-pin connector
T20p 20-pin connector

376  Ground connection 11 (in main wiring harness)
381  Ground connection 16 (in main wiring harness)
655  Ground connection on left headlamp
B162 Connection 75a (in interior wiring harness)
B315 Positive connection 1 (30a) (in main wiring harness)
  * from November 2008
  *2 Only for vehicles without auxiliary coolant heater
  *3 Only for vehicles with auxiliary coolant heater
  *4 Through October 2008

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
High pressure sensor, Center vent temperature sensor, A/C control module, Recirculation door motor

E159  Fresh air/recirculation door switch
E230  Rear window defogger button
G65   High pressure sensor
G143  Recirculation door motor position sensor
G191  Center vent temperature sensor
G267  Temperature selector knob potentiometer
J301  A/C control module, in the instrument panel, center
K10   Rear window defogger indicator lamp
K114  Fresh air and recirculation mode indicator lamp
L16   Fresh air control illumination bulb
T3c   3-pin connector
T6k   6-pin connector
T16e  16-pin connector
T20p  20-pin connector
V113  Recirculation door motor
389   Ground connection 24 (in main wiring harness)

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

https://www.automotive-manuals.net/
Footwell vent temperature sensor, Evaporator vent temperature sensor, A/C control module, Temperature control door motor, Air distribution door motor

- G92: Temperature control door motor position sensor
- G192: Footwell vent temperature sensor
- G263: Evaporator vent temperature sensor
- G645: Air distribution door motor position sensor
- J301: A/C control module, in the instrument panel, center
- T6aj: 6-pin connector
- T6m: 6-pin connector
- T16e: 16-pin connector
- V68: Temperature control door motor
- V428: Air distribution door motor

**Legend:**
- L2: Connection (in A/C system wiring harness)
- L10: Connection 2 (in A/C system wiring harness)

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

https://www.automotive-manuals.net/
Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower

- E9  Fresh air blower switch
- E94  Fresh air blower relay
- E95  Heated driver seat adjuster
- J13  Front seat heating control module
- J301  A/C control module, in the instrument panel, center
- J774  Front seat heating control module
- N24  Fresh air blower series resistor with fuse
- T4f  4-pin connector
- T5gi  5-pin connector
- T10a  10-pin connector, under the driver seat
- T10k  10-pin connector
- T20p  20-pin connector
- V2  Fresh air blower

- 602  Ground connection in left front footwell
- L77  Connection (in fresh air blower wiring harness)
- L78  Connection 1 (in fresh air blower wiring harness)
- M45  Connection 5 (in driver seat wiring harness)
- O15  Connection 4 (in heated seats wiring harness)

* Only for vehicles with auxiliary coolant heater
*2 Only for vehicles with an auxiliary heater

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

https://www.automotive-manuals.net/
A/C control module, Data bus on board diagnostic interface

- J301 A/C control module, in the instrument panel, center
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console

- T20 20-pin connector
- T20p 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)

- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

\[\begin{align*}
\text{ws} & = \text{white} \\
\text{sw} & = \text{black} \\
\text{ro} & = \text{red} \\
\text{rt} & = \text{red} \\
\text{br} & = \text{brown} \\
\text{gn} & = \text{green} \\
\text{bl} & = \text{blue} \\
\text{gr} & = \text{grey} \\
\text{li} & = \text{lilac} \\
\text{vi} & = \text{lilac} \\
\text{ge} & = \text{yellow} \\
\text{or} & = \text{orange} \\
\text{rs} & = \text{pink}
\end{align*}\]
Auxiliary air heater (PTC) , (7E6)
from July 2008
Low heat output relay, High heat output relay, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse 6 (on fuse panel A), Auxiliary heater heating element

- A Battery
- B Starter
- C Generator
- J359 Low heat output relay
- J360 High heat output relay
- SA1 Fuse 1 (on fuse panel A)
- SA4 Fuse 4 (on fuse panel A)
- SA6 Fuse 6 (on fuse panel A)
- T3ar 3-pin connector
- Z35 Auxiliary heater heating element

Terminal 30 threaded connection (on E-box)
Ground connection in left front footwell
Connection 4 (87a) (in engine compartment wiring harness)
Connection (in auxiliary heater wiring harness)
* Only for vehicles with 90 A/120 A generator
*2 Only for vehicles with a generator (140 A)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
dw = yellow
or = orange
rs = pink
Terminal 30 power supply relay, Engine control module,
Fuse panel B

- J17 Fuel pump relay
- J179 Automatic glow time control module
- J317 Terminal 30 power supply relay
- J623 Engine control module, in the center plenum chamber
- SB Fuse panel B
- SB10 Fuse 10 (on fuse panel B)
- SB15 Fuse 15 (on fuse panel B)
- T11b 11-pin connector
- T40 40-pin connector
- T94 94-pin connector

Terminal 30 threaded connection (on E-box)
Positive connection 1 (30a) (in engine compartment wiring harness)
Connection 4 (87a) (in engine compartment wiring harness)
* Only for vehicles without an A/C system

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

https://www.automotive-manuals.net/
Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower

- E9 Fresh air blower switch
- J13 Fresh air blower relay
- J301 A/C control module
- J485 Auxiliary heater operation relay
- J519 Vehicle electrical control module system
- L16 Fresh air control illumination bulb
- N24 Fresh air blower series resistor with fuse
- SC40 Fuse 40 (on fuse panel C)
- T4f 4-pin connector
- T5gi 5-pin connector
- T10k 10-pin connector
- T20p 20-pin connector
- T52a 52-pin connector
- V2 Fresh air blower

- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 602 Ground connection in left front footwell
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)

* Only for vehicles without auxiliary water heater
*2 Only for vehicles with auxiliary water heater
*3 Only for vehicles without Start/Stop system
*4 Only for vehicles without an A/C system
*5 Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Climatronic, (9AK)
from July 2008
Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 7 (on fuse panel B), Fuse 14 (on fuse panel C), Fuse 22 (on fuse panel C)

- A Battery
- B Starter
- C Generator

J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
J906 Starter relay 1
SA1 Fuse 1 (on fuse panel A)
SC4 Fuse 4 (on fuse panel C)
SA5 Fuse 5 (on fuse panel A)
SB7 Fuse 7 (on fuse panel B)
SC14 Fuse 14 (on fuse panel C)
SC22 Fuse 22 (on fuse panel C)

T40 40-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column

- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)

* Only for vehicles with 90 A/120 A generator
*2 Only for vehicles with a generator (140 A)
High pressure sensor, Air quality sensor, Climatronic control module

- G65: High pressure sensor
- G238: Air quality sensor
- G261: Left footwell vent temperature sensor
- G262: Right footwell vent temperature sensor
- G308: Evaporator temperature sensor
- J255: Climatronic control module, behind the center console
- T3as: 3-pin connector
- T3c: 3-pin connector
- T16c: 16-pin connector
- T20q: 20-pin connector

Ground connections:
- 47: Ground connection in right front footwell
- 366: Ground connection 1 (in main wiring harness)
- 388: Ground connection 23 (in main wiring harness)
- 433: Sensor ground connection 2 (in Climatronic wiring harness)
- A217: Positive connection 8 (15a) (in instrument panel wiring harness)

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Climatronic control module, Left temperature control door motor, Right temperature control door motor

G220  Left temperature control door motor position sensor
G221  Right temperature control door motor position sensor
J255  Climatronic control module, behind the center console
T6p   6-pin connector
T6u   6-pin connector
T16c  16-pin connector
T16d  16-pin connector
V158  Left temperature control door motor
V159  Right temperature control door motor

433   Sensor ground connection 2 (in Climatronic wiring harness)

L31   Connection (5 Volt) (in A/C system wiring harness)
Climatronic control module, Defroster door motor, Fresh air/recirculating air/back pressure door motor, Front air distribution door motor

- G135: Defroster door motor position sensor
- G642: Front air distribution door motor position sensor
- G644: Fresh air/recirculating air/back pressure door motor position sensor
- J255: Climatronic control module, behind the center console
- T6n: 6-pin connector
- T6q: 6-pin connector
- T6r: 6-pin connector
- T16c: 16-pin connector
- T16d: 16-pin connector
- V107: Defroster door motor
- V425: Fresh air/recirculating air/back pressure door motor
- V426: Front air distribution door motor

- 433: Sensor ground connection 2 (in Climatronic wiring harness)
- L31: Connection (5 Volt) (in A/C system wiring harness)
Sunlight photo sensor, Sunlight photo sensor 2, Left vent temperature sensor, Right vent temperature sensor, Climatronic control module

G107  Sunlight photo sensor
G134  Sunlight photo sensor 2
G150  Left vent temperature sensor
G151  Right vent temperature sensor
J255  Climatronic control module, behind the center console
J774  Front seat heating control module
T4bw  4-pin connector
T10a  10-pin connector, under the driver seat
T20q  20-pin connector
244  Sensor ground connection (in Climatronic wiring harness)
M45  Connection 5 (in driver seat wiring harness)
O15  Connection 4 (in heated seats wiring harness)
* Only for vehicles with an auxiliary heater

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

https://www.automotive-manuals.net/
Fresh air blower control module, Climatronic control module, Data bus on board diagnostic interface, Fresh air blower

J126  Fresh air blower control module
J255  Climatronic control module, behind the center console
J519  Vehicle electrical control module system
J519  Data bus on board diagnostic interface, in the left footwell, near the center console
N280  A/C compressor regulator valve
T4t   4-pin connector
T6t   6-pin connector
T10k  10-pin connector
T16d  16-pin connector
T20   20-pin connector
T20q  20-pin connector
V2    Fresh air blower

376   Ground connection 11 (in main wiring harness)
381   Ground connection 16 (in main wiring harness)
602   Ground connection in left front footwell
655   Ground connection on left headlamp
B397  Comfort system CAN bus high connection 1 (in main wiring harness)
B398  Comfort system CAN bus high connection 2 (in main wiring harness)
B406  Comfort system CAN bus low connection 1 (in main wiring harness)
B407  Comfort system CAN bus low connection 2 (in main wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Dynamic Chassis Control (DCC), (2H1)
from July 2008
Electronic damping control module, Terminal 15 power supply relay, Fuse 7 (on fuse panel B), Fuse 29 (on fuse panel B)

- A Battery
- B Starter
- J250 Electronic damping control module
- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- SC1 Fuse 1 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- SC35 Fuse 35 (on fuse panel C)
- T40 40-pin connector
- T47d 47-pin connector

- 44 Ground connection on A-pillar, lower left
- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- A192 Positive connection 3 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)

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

https://www.automotive-manuals.net/
Damping adjustment button, Left front body acceleration sensor, Electronic damping control module, Left front damping adjustment valve, Right front damping adjustment valve

- E387  Damping adjustment button
- G341  Left front body acceleration sensor
- J250  Electronic damping control module
- K189  Damping adjustment indicator lamp
- L76   Push button illumination bulb
- N336  Left front damping adjustment valve
- N337  Right front damping adjustment valve
- T2bi  2-pin connector
- T2bj  2-pin connector
- T3be  3-pin connector
- T6aw  6-pin connector
- T47d  47-pin connector

- (B340) Connection 58d (in main wiring harness) 1
- (B465) Connection 1 (in main wiring harness)
- (B466) Connection 2 (in main wiring harness)
- (B467) Connection 3 (in main wiring harness)
- (B468) Connection 4 (in main wiring harness)

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

https://www.automotive-manuals.net/
Wiring Diagram

Left front level control system sensor, Right front level control system sensor, Right front body acceleration sensor, Rear body acceleration sensor, Electronic damping control module, Left rear damping adjustment valve

G78  Left front level control system sensor
G289 Right front level control system sensor
G342 Right front body acceleration sensor
G343 Rear body acceleration sensor
J250 Electronic damping control module
N338 Left rear damping adjustment valve
T2bk 2-pin connector
T3bf 3-pin connector
T3bg 3-pin connector
T4aq 4-pin connector
T4bp 4-pin connector
T47d 47-pin connector

B469 Connection 5 (in main wiring harness)
B470 Connection 6 (in main wiring harness)
B471 Connection 7 (in main wiring harness)
B472 Connection 8 (in main wiring harness)
B473 Connection 9 (in main wiring harness)
B474 Connection 10 (in main wiring harness)
B475 Connection 11 (in main wiring harness)
B476 Connection 12 (in main wiring harness)
B479 Connection 15 (in main wiring harness)
B480 Connection 16 (in main wiring harness)
B481 Connection 17 (in main wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gi = lilac
li = green
bl = blue
ge = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Power steering, electromechanical, (1N3), (QZ0)
from July 2008
Terminal 15 power supply relay, Fuse 2 (on fuse panel A), Fuse panel B, Fuse 7 (on fuse panel B), Fuse panel C, Fuse 2 (on fuse panel C)

A  Battery
B  Starter
J329  Terminal 15 power supply relay
J519  Vehicle electrical control module system
J682  Terminal 50 power supply relay
J906  Starter relay 1
SA2  Fuse 2 (on fuse panel A)
SB  Fuse panel B
SB7  Fuse 7 (on fuse panel B)
SC  Fuse panel C
SC2  Fuse 2 (on fuse panel C)
T40  40-pin connector
T52b  52-pin connector
T52c  52-pin connector

44  Ground connection on A-pillar, lower left
367  Ground connection 2 (in main wiring harness)
508  Terminal 30 threaded connection (on E-box)
605  Ground connection on upper steering column
B163  Positive connection 1 (15) (in interior wiring harness)
B278  Positive connection 2 (15a) (in main wiring harness)

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

https://www.automotive-manuals.net/
Steering angle sensor, Steering torque sensor, Power steering control module, Electromechanical power steering motor

- **G85**  Steering angle sensor
- **G269**  Steering torque sensor
- **J500**  Power steering control module, on the front axle support
- **T2a**   Double connector
- **T3bq**  3-pin connector
- **T5g**   5-pin connector
- **T5u**   5-pin connector
- **T6z**   6-pin connector, near the left headlamp
- **V187**  Electromechanical power steering motor

- **652**  Transmission/engine ground connection
- **B278**  Positive connection 2 (15a) (in main wiring harness)
- **B383**  Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390**  Powertrain CAN bus low connection 1 (in main wiring harness)

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**Color Codes**

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

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https://www.automotive-manuals.net/
Instrument cluster control module, Data bus on board diagnostic interface, Electromechanical power steering indicator lamp

- J285 Instrument cluster control module
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- K Instrument cluster
- K161 Electromechanical power steering indicator lamp
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- U31 Diagnostic connection

(B383) Powertrain CAN bus high connection 1 (in main wiring harness)
(B390) Powertrain CAN bus low connection 1 (in main wiring harness)
(B397) Comfort system CAN bus high connection 1 (in main wiring harness)
(B398) Comfort system CAN bus high connection 2 (in main wiring harness)
(B406) Comfort system CAN bus low connection 1 (in main wiring harness)
(B407) Comfort system CAN bus low connection 2 (in main wiring harness)

* Diagnostic connector

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

https://www.automotive-manuals.net/
Steering wheel, multifunction
from July 2008
Battery, Battery monitoring control module, Voltage stabilizer

A  Battery
B  Starter
C  Generator
J367  Battery monitoring control module
J519  Vehicle electrical control module system
J532  Voltage stabilizer
J682  Terminal 50 power supply relay
J907  Starter relay 2
T2bn  Double connector
T4t  4-pin connector, near the starter
T10ah  10-pin connector
T52a  52-pin connector
T52c  52-pin connector

1  Ground strap, battery to body
47  Ground connection in right front footwell
366  Ground connection 1 (in main wiring harness)
B319  Positive connection 5 (30a) (in main wiring harness)
B660  Diagnostic terminal 50 connection (in main wiring harness)
B698  LIN bus connection 3 (in main wiring harness)

*  Only for vehicles with Start/Stop system
*2 through April 2009
*3 Only for vehicles without Start/Stop system
*4 from May 2009

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- J329 Terminal 15 power supply relay
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SC2 Fuse 2 (on fuse panel C)
- SB3 Fuse 3 (on fuse panel B)
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SB12 Fuse 12 (on fuse panel B)
- SC Fuse panel C
- SC47 Fuse 47 (on fuse panel C)

- SB3 Fuse 3 (on fuse panel B)
- SC2 Fuse 2 (on fuse panel C)
- SC47 Fuse 47 (on fuse panel C)

**Through October 2009**

**From November 2009**

**Through April 2009**

**Only for vehicles with Start/Stop system**

**Only for vehicles without Start/Stop system**

**From May 2009**

- 0.35 sw1t
- 2.5 r/Ge *4
- 0.5 sw/vi
- 4.0 sw
- 16.0 r/t

**Terminal 30 threaded connection (on E-box)**

- B163 Positive connection 1 (15) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- B321 Positive connection 7 (30a) (in main wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)

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

https://www.automotive-manuals.net/
**Multifunction indicator, Instrument cluster control module, Data bus on board diagnostic interface**

- **H3** Warning buzzer and tone
- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **K** Instrument cluster
- **T16n** 16-pin connector, under the instrument panel, left
- **T20** 20-pin connector
- **T32** 32-pin connector
- **T52a** 52-pin connector
- **T52c** 52-pin connector

- **44** Ground connection on A-pillar, lower left
- **367** Ground connection 2 (in main wiring harness)
- **387** Ground connection 22 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)

* Diagnostic connector
*2 Only for vehicles without Start/Stop system

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**Colors and Codes**

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

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https://www.automotive-manuals.net/
Ignition/starter switch, Steering column electronics control module, Ignition switch key lock solenoid

D Ignition/starter switch
J29 Blocking diode
J519 Vehicle electrical control module system
J527 Steering column electronics control module
J608 Special purpose vehicle control module
N376 Ignition switch key lock solenoid, on the ignition/starter switch
T4bx 4-pin connector, near the lower left A-pillar
T6l 6-pin connector
T12j 12-pin connector
T16n 16-pin connector
T20d 20-pin connector
T52c 52-pin connector

367 Ground connection 2 (in main wiring harness)
605 Ground connection on upper steering column
B240 Positive connection 2 (50) (in interior wiring harness)
B276 Positive connection (50) (in main wiring harness)
B465 Connection 1 (in main wiring harness)

* only for vehicles with driving assistance special equipment
*2 Only for vehicles with Start/Stop system
*3 Only for vehicles without Start/Stop system
*4 only for vehicles without driving assistance special equipment
*5 from May 2009
*6 only for vehicles without police special equipment
*7 Only for vehicles with US equipment
*8 Refer to applicable engine wiring diagram
*9 Only for vehicles with DSG transmission
*10 through April 2009

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

https://www.automotive-manuals.net/
Signal horn activation, Multifunction steering wheel control module, Steering column electronics control module, Driver airbag igniter

- F319 Selector lever park position lock switch
- F350 Spiral spring
- H Signal horn activation
- J234 Airbag control module
- J453 Multifunction steering wheel control module, in the steering wheel
- J527 Steering column electronics control module
- J623 Engine control module
- N95 Driver airbag igniter
- T4k 4-pin connector
- T6bl 6-pin connector
- T10s 10-pin connector, under the selector lever
- T10x 10-pin connector
- T12k 12-pin connector
- T20d 20-pin connector
- T50 50-pin connector
- T75 75-pin connector
- T94 94-pin connector
- B441 Cruise control connection (in main wiring harness)

* Refer to applicable airbag wiring diagram
*2 Refer to applicable engine wiring diagram
*3 Only for vehicles with DSG transmission

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

https://www.automotive-manuals.net/
Turn signal switch, Headlamp dimmer/flasher switch, Cruise control switch, Cruise control -SET- button, Left multifunction buttons on steering wheel, Right multifunction buttons on steering wheel, tiptronic upshift button, tiptronic downshift button, Multifunction steering wheel control module, Steering column electronics control module

- **E2** Turn signal switch
- **E4** Headlamp dimmer/flasher switch
- **E45** Cruise control switch
- **E227** Cruise control -SET- button
- **E440** Left multifunction buttons on steering wheel
- **E441** Right multifunction buttons on steering wheel
- **E479** tiptronic upshift button
- **E480** tiptronic downshift button
- **J453** Multifunction steering wheel control module, in the steering wheel
- **J527** Steering column electronics control module
- **T8ag** 8-pin connector
- **T8ah** 8-pin connector
- * Only for vehicles with cruise control

**Legend:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **bn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Radio system, (7Q0)
from July 2008
Voltage stabilizer, Radio, External audio source connection

- **J532** Voltage stabilizer
- **R** Radio
- **R199** External audio source connection
- **SC2** Fuse 2 (on fuse panel C)
- **SC13** Fuse 13 (on fuse panel C)
- **SC25** Fuse 25 (on fuse panel C)
- **SC28** Fuse 28 (on fuse panel C)
- **T3aq** 3-pin connector, in the glove compartment
- **T10ah** 10-pin connector
- **T12** 12-pin connector
- **T16b** 16-pin connector

- **47** Ground connection in right front footwell
- **53** Ground connection in rear lid, right
- **366** Ground connection 1 (in main wiring harness)
- **682** Ground connection 2 in right rear side panel

**Fuse Symbols**:
- **SC** Fuse 2 (on fuse panel C)
- **SC13** Fuse 13 (on fuse panel C)
- **SC25** Fuse 25 (on fuse panel C)
- **SC28** Fuse 28 (on fuse panel C)

**Connection Symbols**:
- **J532** Voltage stabilizer
- **R** Radio
- **R199** External audio source connection
- **SC2** Fuse 2 (on fuse panel C)
- **SC13** Fuse 13 (on fuse panel C)
- **SC25** Fuse 25 (on fuse panel C)
- **SC28** Fuse 28 (on fuse panel C)
- **T3aq** 3-pin connector, in the glove compartment

**Ground Connections**:
- **47** Ground connection in right front footwell
- **53** Ground connection in rear lid, right
- **366** Ground connection 1 (in main wiring harness)
- **682** Ground connection 2 in right rear side panel

**Connection Numbers**:
- **A167** Positive connection 3 (30a) (in instrument panel wiring harness)
- **A170** Connection 58R (in instrument panel wiring harness) 2
- **B163** Positive connection 1 (15) (in interior wiring harness)
- **B169** Positive connection 1 (30) (in interior wiring harness)
- **B224** Radio connection 1 (in interior wiring harness)
- **B278** Positive connection 2 (15a) (in main wiring harness)
- **B320** Positive connection 6 (30a) (in main wiring harness)

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

* Only for vehicles with Start/Stop system
*2 Only for vehicles with CD changer and external audio source connection
*3 Only for vehicles without Start/Stop system
Cell phone operating electronics control module, Radio, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

- J412: Cell phone operating electronics control module
- J533: Data bus on board diagnostic interface
- R: Radio
- R20: Left front treble speaker
- R21: Left front bass speaker
- R22: Right front treble speaker
- R23: Right front bass speaker
- T1e: Single connector, behind the right C-pillar trim panel
- T1f: Single connector, behind the right C-pillar trim panel
- T1w: Single connector, behind the right C-pillar trim panel
- T12g: 12-pin connector
- T16b: 16-pin connector
- T20: 20-pin connector
- T28: 28-pin connector, on the left A-pillar
- T28a: 28-pin connector, on the right A-pillar
- T54: 54-pin connector

- A178: Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179: Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225: Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226: Infotainment CAN bus low connection 2 (in instrument panel wiring harness)

* Not included in the preparation
*2 Only for vehicles with with a cell phone/telephone prep
*3 Only for vehicles with a digital radio

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

https://www.automotive-manuals.net/
Radio, Left rear treble speaker, Left rear bass speaker,
Right rear treble speaker, Right rear bass speaker, CD changer

- R Radio
- R14 Left rear treble speaker
- R15 Left rear bass speaker
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R41 CD changer
- T12 12-pin connector
- T12d 12-pin connector
- T16b 16-pin connector
- T28b 28-pin connector, on the left B-pillar

- 45 Ground connection behind instrument panel, center
- 370 Ground connection 5 (in main wiring harness)
- 371 Ground connection 6 (in main wiring harness)
- V14 Shielding connection (in CD changer wiring harness)
- V45 Shielding connection 2 (in CD changer wiring harness)

* Not included in the preparation
*2 Only for vehicles with 4 doors
*3 Only for vehicles with 2-door equipment
*4 Only for vehicles with CD changer/CD changer prep
*5 Only for vehicles with CD changer and external audio source connection

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

https://www.automotive-manuals.net/
Radio, Left antenna module, Right antenna module, AM frequency filter, FM frequency filter in negative wire, FM frequency filter in positive wire, Rear window defogger

- **R**: Radio
- **R11**: Antenna
- **R16**: Right rear treble speaker
- **R17**: Right rear bass speaker
- **R93**: Radio antenna 2
- **R108**: Left antenna module
- **R109**: Right antenna module
- **R177**: AM frequency filter, in the rear lid
- **R178**: FM frequency filter in negative wire
- **R179**: FM frequency filter in positive wire
- **R183**: Digital radio antenna
- **T1c**: Single connector
- **T1d**: Single connector
- **T1g**: Single connector
- **T1h**: Single connector
- **T1i**: Single connector
- **T1j**: Single connector
- **T2b**: Double connector
- **T5a**: 5-pin connector, in the left rear side panel, black
- **T5e**: 5-pin connector, in the left rear side panel, pink
- **T16b**: 16-pin connector
- **T28c**: 28-pin connector, on the right B-pillar
- **Z1**: Rear window defogger

* Only for vehicles with a digital radio
*2 Only for vehicles with 4 doors

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

Ground connection 4 (in main wiring harness)
Ground connection in left rear side panel

https://www.automotive-manuals.net/
Radio system with digital sound package, (9VE)
from July 2008
Rear window defogger relay, Terminal 15 power supply relay

- **A** Battery
- **B** Starter
- **E15** Rear window defogger switch
- **E16** Heater/heat output switch
- **J9** Rear window defogger relay
- **J329** Terminal 15 power supply relay
- **J519** Vehicle electrical control module system
- **J682** Terminal 50 power supply relay
- **J906** Starter relay 1
- **K10** Rear window defogger indicator lamp
- **SA5** Fuse 5 (on fuse panel A)
- **SB7** Fuse 7 (on fuse panel B)
- **SB8** Fuse 8 (on fuse panel B)
- **SB18** Fuse 18 (on fuse panel B)
- **T20c** 20-pin connector
- **T40** 40-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

* * *

- **44** Ground connection on A-pillar, lower left
- **367** Ground connection 2 (in main wiring harness)
- **508** Terminal 30 threaded connection (on E-box)
- **605** Ground connection on upper steering column
- **B163** Positive connection 1 (15) (in interior wiring harness)
- **B169** Positive connection 1 (30) (in interior wiring harness)
- **B340** Connection 58d (in main wiring harness) 1

**Abbreviations:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vl** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink

* Through October 2009
*2 from November 2009
*3 Only for vehicles with Start/Stop system
*4 Only for vehicles without Start/Stop system
*5 Only for vehicles with CD changer/CD changer prep
Voltage stabilizer, Antenna, Left antenna module, AM frequency filter, FM frequency filter in negative wire, Rear window defogger

- J532 Voltage stabilizer
- J907 Starter relay 2
- R11 Antenna
- R108 Left antenna module
- R177 AM frequency filter
- R178 FM frequency filter in negative wire
- SC2 Fuse 2 (on fuse panel C)
- SC13 Fuse 13 (on fuse panel C)
- SC25 Fuse 25 (on fuse panel C)
- SC28 Fuse 28 (on fuse panel C)
- T1d 1-pin connector
- T1g 1-pin connector
- T1i 1-pin connector
- T2b 2-pin connector
- T5a 5-pin connector, in the left rear side panel, black
- T10ah 10-pin connector
- Z1 Rear window defogger

47 Ground connection in right front footwell
366 Ground connection 1 (in main wiring harness)

- A167 Positive connection 3 (30a) (in instrument panel wiring harness)
- A170 Connection 58R (in instrument panel wiring harness) 2
- B278 Positive connection 2 (15a) (in main wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- B660 Diagnostic terminal 50 connection (in main wiring harness)

- Only for vehicles with Start/Stop system
- *2 Only for vehicles with CD changer/CD changer prep

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Radio, Radio antenna 2, Right antenna module, AM frequency filter, FM frequency filter in positive wire, Digital radio antenna, External audio source connection, Rear window defogger

- **R** Radio
- **R93** Radio antenna 2
- **R109** Right antenna module
- **R177** AM frequency filter
- **R179** FM frequency filter in positive wire
- **R183** Digital radio antenna
- **R199** External audio source connection
- **T1c** 1-pin connector
- **T1h** 1-pin connector
- **T1j** 1-pin connector
- **T1w** 1-pin connector
- **T2b** 2-pin connector
- **T3aq** 3-pin connector, in the glove compartment
- **T12** 12-pin connector
- **T16b** 16-pin connector
- **Z1** Rear window defogger

- **45** Ground connection behind instrument panel, center
- **B224** Radio connection 1 (in interior wiring harness)
  - * Only for vehicles with a digital radio
  - *2 Only for vehicles with CD changer and external audio source connection
  - *3 Only for vehicles without Start/Stop system
  - *4 Only for vehicles with Start/Stop system

| **ws** | white |
| **sw** | black |
| **ro** | red |
| **rt** | red |
| **br** | brown |
| **gn** | green |
| **bl** | blue |
| **gr** | grey |
| **li** | lilac |
| **vi** | lilac |
| **ge** | yellow |
| **or** | orange |
| **rs** | pink |
Cell phone operating electronics control module, Radio, CD changer

- **J412**: Cell phone operating electronics control module
- **J533**: Data bus on board diagnostic interface
- **R**: Radio
- **R41**: CD changer
- **T1e**: 1-pin connector, behind the right C-pillar trim panel
- **T1f**: 1-pin connector, behind the right C-pillar trim panel
- **T12**: 12-pin connector
- **T12d**: 12-pin connector
- **T12g**: 12-pin connector
- **T16b**: 16-pin connector
- **T20**: 20-pin connector
- **T54**: 54-pin connector
- **370**: Ground connection 5 (in main wiring harness)
- **371**: Ground connection 6 (in main wiring harness)
- **A178**: Infotainment CAN bus high connection (in instrument panel wiring harness)
- **A179**: Infotainment CAN bus low connection (in instrument panel wiring harness)
- **A225**: Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- **A226**: Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
- **V14**: Shielding connection (in CD changer wiring harness)
- **V45**: Shielding connection 2 (in CD changer wiring harness)

* Not included in the preparation
*2 Only for vehicles with with a cell phone/telephone prep
*3 Only for vehicles with CD changer/CD changer prep
*4 Only for vehicles with CD changer and external audio source connection

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

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https://www.automotive-manuals.net/
Radio, Amplifier, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

- **R** Radio
- **R12** Amplifier, under the driver seat
- **R20** Left front treble speaker
- **R21** Left front bass speaker
- **R22** Right front treble speaker
- **R23** Right front bass speaker
- **T16b** 16-pin connector
- **T28** 28-pin connector, on the left A-pillar
- **T28a** 28-pin connector, on the right A-pillar
- **T38** 38-pin connector

45 Ground connection behind instrument panel, center

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**Legend**

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

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https://www.automotive-manuals.net/
Amplifier, Left rear treble speaker, Left rear bass speaker

R12  Amplifier, under the driver seat
R14  Left rear treble speaker
R15  Left rear bass speaker
T5e  5-pin connector, in the left rear side panel, pink
T28b 28-pin connector, on the left B-pillar
T38  38-pin connector

Ground connection in rear lid, right
Ground connection 4 (in main wiring harness)
Ground connection in left rear side panel
Ground connection 2 in right rear side panel
* Only for vehicles with 4 doors
*2 Only for vehicles with 2-door equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
R12 Amplifier, under the driver seat
R16 Right rear treble speaker
R17 Right rear bass speaker
T28c 28-pin connector, on the right B-pillar
T38 38-pin connector
* Only for vehicles with 4 doors
*2 Only for vehicles with 2-door equipment
Radio navigation system RNS 310
from July 2008
Cell phone operating electronics control module, Radio/navigation display unit control module, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

- J412 Cell phone operating electronics control module
- J503 Radio/navigation display unit control module
- J533 Data bus on board diagnostic interface
- R20 Left front treble speaker
- R21 Left front bass speaker
- R22 Right front treble speaker
- R23 Right front bass speaker
- T1e 1-pin connector, behind the right C-pillar trim panel
- T1f 1-pin connector, behind the right C-pillar trim panel
- T1w 1-pin connector, behind the right C-pillar trim panel
- T12g 12-pin connector
- T16b 16-pin connector
- T20 20-pin connector
- T28 28-pin connector, on the left A-pillar
- T28a 28-pin connector, on the right A-pillar
- T54 54-pin connector

45 Ground connection behind instrument panel, center

- A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)

*2 Only included in the preparation for vehicles with a cell phone/telephone prep
*3 Only for vehicles with a digital radio

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = violet
ge = yellow
or = orange
rs = pink
Radio/navigation display unit control module, GPS antenna, Telephone antenna, Left antenna module, AM frequency filter, FM frequency filter in negative wire, Auxiliary heater antenna, Rear window defogger

- J412 Cell phone operating electronics control module
- J503 Radio/navigation display unit control module
- R11 Antenna
- R16 Right rear treble speaker
- R17 Right rear bass speaker
- R50 GPS antenna
- R65 Telephone antenna
- R108 Left antenna module
- R126 Telephone baseplate
- R149 Auxiliary coolant heater radio frequency receiver
- R177 AM frequency filter, in the rear lid
- R178 FM frequency filter in negative wire
- R182 Auxiliary heater antenna

- T1d 1-pin connector
- T1g 1-pin connector
- T1i 1-pin connector
- T2ay 2-pin connector, near the roof antenna
- T2az 2-pin connector, near the roof antenna
- T2b 2-pin connector
- T2m 2-pin connector, near the roof antenna
- T5a 5-pin connector, in the left rear side panel, black
- T5e 5-pin connector, in the left rear side panel, pink
- T16b 16-pin connector
- T28c 28-pin connector, on the right B-pillar
- Z1 Rear window defogger

- 369 Ground connection 4 (in main wiring harness)
- 662 Ground connection in left rear side panel

* Only for vehicles with a cell phone/telephone prep
*2 Only for vehicles with auxiliary coolant heater radio receiver
*3 Only for vehicles with 4 doors

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

https://www.automotive-manuals.net/
Right antenna module, AM frequency filter, FM frequency filter in positive wire, Rear window defogger

- R93 Radio antenna 2
- R109 Right antenna module
- R177 AM frequency filter, in the rear lid
- R179 FM frequency filter in positive wire
- R183 Digital radio antenna
- T1c 1-pin connector
- T1h 1-pin connector
- T1j 1-pin connector
- Z1 Rear window defogger

- 53 Ground connection in rear lid, right
- 682 Ground connection 2 in right rear side panel
- * Only for vehicles with a digital radio

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

https://www.automotive-manuals.net/
Radio navigation system with digital sound package
from July 2008
Voltage stabilizer, Antenna, AM frequency filter, FM frequency filter in negative wire, Rear window defogger

J532 Voltage stabilizer
J682 Terminal 50 power supply relay
J906 Starter relay 1
R11 Antenna
R177 AM frequency filter
R178 FM frequency filter in negative wire
SC2 Fuse 2 (on fuse panel C)
SC13 Fuse 13 (on fuse panel C)
SC25 Fuse 25 (on fuse panel C)
SC28 Fuse 28 (on fuse panel C)
T1d Single connector
T1i Single connector
T2b Double connector
T5a 5-pin connector, in the left rear side panel, black
T5e 5-pin connector, in the left rear side panel, pink
T10ah 10-pin connector
Z1 Rear window defogger

47 Ground connection in right front footwell
366 Ground connection 1 (in main wiring harness)
369 Ground connection 4 (in main wiring harness)
662 Ground connection in left rear side panel
A167 Positive connection 3 (30a) (in instrument panel wiring harness)
A170 Connection 58R (in instrument panel wiring harness) 2
B163 Positive connection 1 (15) (in interior wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B278 Positive connection 2 (15a) (in main wiring harness)
B320 Positive connection 6 (30a) (in main wiring harness)

* Only for vehicles with Start/Stop system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
gle = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Radio/navigation display unit control module, Radio antenna 2, Left antenna module, Right antenna module, AM frequency filter, FM frequency filter in positive wire, Digital radio antenna, External audio source connection, Rear window defogger

J503  Radio/navigation display unit control module
R93   Radio antenna 2
R108  Left antenna module
R109  Right antenna module
R177  AM frequency filter
R179  FM frequency filter in positive wire
R183  Digital radio antenna
R199  External audio source connection
T1c   Single connector
T1g   Single connector
T1h   Single connector
T1j   Single connector
T3aq  3-pin connector, in the glove compartment
T12   12-pin connector
T16b  16-pin connector
Z1    Rear window defogger

53    Ground connection in rear lid, right
682   Ground connection 2 in right rear side panel
B224  Radio connection 1 (in interior wiring harness)

* Only for vehicles with a digital radio
*2 Only for vehicles without Start/Stop system
*3 Only for vehicles with Start/Stop system
*4 Only for vehicles with CD changer and external audio source connection

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

https://www.automotive-manuals.net/
Radio/navigation display unit control module, GPS antenna, Telephone antenna, Auxiliary heater antenna

- J412 Cell phone operating electronics control module
- J503 Radio/navigation display unit control module
- R50 GPS antenna
- R65 Telephone antenna
- R126 Telephone baseplate
- R149 Auxiliary engine coolant heater radio frequency receiver
- R182 Auxiliary heater antenna

- T1e Single connector, behind the right C-pillar trim panel
- T1f Single connector, behind the right C-pillar trim panel
- T2ay Double connector, near the roof antenna
- T2az Double connector, near the roof antenna
- T2m Double connector, near the roof antenna
- T16b 16-pin connector
  - * Only for vehicles with with a cell phone/telephone prep
  - *2 Only for vehicles with auxiliary coolant heater radio receiver
  - *3 Only for vehicles with a digital radio

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

https://www.automotive-manuals.net/
Amplifier, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

- **R12** Amplifier, under the driver seat
- **R20** Left front treble speaker
- **R21** Left front bass speaker
- **R22** Right front treble speaker
- **R23** Right front bass speaker
- **T28** 28-pin connector, on the left A-pillar
- **T28a** 28-pin connector, on the right A-pillar
- **T38** 38-pin connector

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

https://www.automotive-manuals.net/
Amplifier, Right rear treble speaker, Right rear bass speaker

R12  Amplifier, under the driver seat
R16  Right rear treble speaker
R17  Right rear bass speaker
T28c 28-pin connector, on the right B-pillar
T38  38-pin connector
*  Only for vehicles with 2-door equipment
*2  Only for vehicles with 4 doors

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

https://www.automotive-manuals.net/
MEDIA-IN multimedia socket
from July 2008
Radio/navigation display unit control module, Radio, External audio source connection, External multimedia device interface

- J503 Radio/navigation display unit control module
- J533 Data bus on board diagnostic interface
- R Radio
- R199 External audio source connection
- R215 External multimedia device interface, Under the front center armrest
- T3at 3-pin connector
- T4bj 4-pin connector, in the front center armrest, USB connection
- T12 12-pin connector
- T12t 12-pin connector
- T16b 16-pin connector
- T20 20-pin connector
- T30 30-pin connector

Ground connection behind instrument panel, center: 45
Ground connection 5 (in main wiring harness): 370
Ground connection 6 (in main wiring harness): 371
Infotainment CAN bus high connection (in instrument panel wiring harness): A178
Infotainment CAN bus low connection (in instrument panel wiring harness): A179
Infotainment CAN bus high connection 2 (in instrument panel wiring harness): A225
Infotainment CAN bus low connection 2 (in instrument panel wiring harness): A226

Wiring Diagram

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

https://www.automotive-manuals.net/
Automatic transmission - DSG 02E , (G1A)
from July 2009
Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 14 (on fuse panel C)

A  Battery
B  Starter
C  Generator
J682 Terminal 50 power supply relay
J906 Starter relay 1
SA1 Fuse 1 (on fuse panel A)
SC2 Fuse 2 (on fuse panel C)
SA5 Fuse 5 (on fuse panel A)
SC14 Fuse 14 (on fuse panel C)

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
B163 Positive connection 1 (15) (in interior wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B315 Positive connection 1 (30a) (in main wiring harness)

* Only for vehicles without an A/C system
*2 Only for vehicles with 90 A/120 A generator
*3 Only for vehicles with a generator (140 A)
*4 Only for vehicles with A/C system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
g = yellow
or = orange
rs = pink
https://www.automotive-manuals.net/
Transmission input speed sensor, Clutch oil temperature sensor, Terminal 15 power supply relay, DSG transmission Mechatronic, Solenoid valve 1, Solenoid valve 2, Fuse panel B

- G182 Transmission input speed sensor
- G509 Clutch oil temperature sensor
- J329 Terminal 15 power supply relay
- J743 DSG transmission Mechatronic, in the transmission
- N88 Solenoid valve 1
- N89 Solenoid valve 2
- SB Fuse panel B
- SB5 Fuse 5 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- T4z 4-pin connector
- T20e 20-pin connector
- T40 40-pin connector

- 201 Ground connection 5 (in engine compartment wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- 655 Ground connection on left headlamp
- B163 Positive connection 1 (15) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- D104 Positive connection 2 (30a) (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Selector lever, Selector lever park position lock switch, DSG transmission Mechatronic, Solenoid valve 4, Solenoid valve 5, Shift lock solenoid, Automatic transmission pressure regulating valve 1, Automatic transmission pressure regulating valve 2

**E313** Selector lever  
**F319** Selector lever park position lock switch  
**J527** Steering column electronics control module  
**J743** DSG transmission Mechatronic, in the transmission  
**N90** Solenoid valve 3  
**N91** Solenoid valve 4  
**N92** Solenoid valve 5  
**N110** Shift lock solenoid  
**N215** Automatic transmission pressure regulating valve 1  
**N216** Automatic transmission pressure regulating valve 2  
**T2p** Double connector, under the selector lever  
**T10s** 10-pin connector, under the selector lever  
**T20d** 20-pin connector

- **47** Ground connection in right front footwell  
- **366** Ground connection 1 (in main wiring harness)  
- **388** Ground connection 23 (in main wiring harness)

* Only for vehicles without an A/C system  
*2 Only for vehicles without Start/Stop system  
*3 Only for vehicles with Start/Stop system  
*4 Only for vehicles with A/C system

- **ws** = white  
- **sw** = black  
- **ro** = red  
- **rt** = red  
- **br** = brown  
- **gn** = green  
- **bl** = blue  
- **gr** = grey  
- **li** = lilac  
- **vi** = lilac  
- **ge** = yellow  
- **or** = orange  
- **rs** = pink
Selector lever, Automatic transmission hydraulic pressure sensor 1, Automatic transmission hydraulic pressure sensor 2, Gear position distance sensor 1, Gear position distance sensor 2, Gear position distance sensor 3, DSG transmission Mechatronic, Automatic transmission pressure regulating valve 3, Automatic transmission pressure regulating valve 4, Automatic transmission pressure regulating valve 5, Automatic transmission pressure regulating valve 6, Transmission range display

- E313 Selector lever
- G193 Automatic transmission hydraulic pressure sensor 1
- G194 Automatic transmission hydraulic pressure sensor 2
- G487 Gear position distance sensor 1
- G488 Gear position distance sensor 2
- G489 Gear position distance sensor 3
- J743 DSG transmission Mechatronic, in the transmission
- N217 Automatic transmission pressure regulating valve 3
- N218 Automatic transmission pressure regulating valve 4
- N233 Automatic transmission pressure regulating valve 5
- N371 Automatic transmission pressure regulating valve 6
- T10s 10-pin connector, under the selector lever
- T10v 10-pin connector, under the selector lever
- Y6 Transmission range display

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
Transmission fluid temperature sensor, Transmission output speed sensor, Transmission output speed sensor 2, Gear position distance sensor 4, Driveshaft speed sensor 1, Driveshaft speed sensor 2, Temperature sensor in control module, DSG transmission Mechatronic.

G93 Transmission fluid temperature sensor
G195 Transmission output speed sensor
G196 Transmission output speed sensor 2
G490 Gear position distance sensor 4
G501 Driveshaft speed sensor 1
G502 Driveshaft speed sensor 2
G510 Temperature sensor in control module
J519 Vehicle electrical control module system
J623 Engine control module
J743 DSG transmission Mechatronic, in the transmission
T20e 20-pin connector
T52b 52-pin connector
T52c 52-pin connector
T94 94-pin connector
A76 KS-diagnostic lead connection (in instrument panel wiring harness)
B340 Connection 58d (in main wiring harness) 1
B383 Powertrain CAN bus high connection 1 (in main wiring harness)
B390 Powertrain CAN bus low connection 1 (in main wiring harness)

* Refer to applicable engine wiring diagram
2 Diagnostic connector

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink
Multifunction indicator, Instrument cluster control module, Data bus on board diagnostic interface

**Multifunction indicator**
**J119**
**J285**
**J519**
**J533** Data bus on board diagnostic interface, in the left footwell, near the center console

**Instrument cluster**

**K**

**Vehicle electrical control module system**

**T16** 16-pin connector
**T20** 20-pin connector
**T32** 32-pin connector
**T52b** 52-pin connector
**T52c** 52-pin connector

**Diagnostic connection**

**U31**

**Powertrain CAN bus high connection 1** (in main wiring harness)

**Powertrain CAN bus low connection 1** (in main wiring harness)

**Comfort system CAN bus high connection 1** (in main wiring harness)
**Comfort system CAN bus high connection 2** (in main wiring harness)

**Comfort system CAN bus low connection 1** (in main wiring harness)
**Comfort system CAN bus low connection 2** (in main wiring harness)

**Diagnostic connector**

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

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Visit [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/) for more resources.
Rearview camera (Rear Assist), (7X9),(8A0)
from July 2008
Release button in rear lid handle, Radio/navigation display unit control module, Vehicle electrical control module system, Rearview camera, Fuse 5 (on fuse panel A), Fuse 16 (on fuse panel C), Emblem motor

- **A** Battery
- **B** Starter
- **E234** Release button in rear lid handle
- **J503** Radio/navigation display unit control module
- **J519** Vehicle electrical control module system
- **R78** TV tuner
- **R189** Rearview camera
- **SA5** Fuse 5 (on fuse panel A)
- **SC** Fuse panel C
- **SC16** Fuse 16 (on fuse panel C)
- **T1v** Single connector, behind the right C-pillar trim panel
- **T4br** 4-pin connector, behind the right C-pillar trim panel
- **T4bs** 4-pin connector
- **T4bt** 4-pin connector, in the rear lid
- **T5s** 5-pin connector, in the right rear side panel
- **T5t** 5-pin connector, in the rear lid
- **T26d** 26-pin connector
- **T52a** 52-pin connector
- **T52c** 52-pin connector
- **T54a** 54-pin connector
- **V432** Emblem motor

- **86** Ground connection 1 (in rear wiring harness)
- **218** Ground connection 1 (in rear lid wiring harness)
- **508** Terminal 30 threaded connection (on E-box)
- **682** Ground connection 2 in right rear side panel
- **A87** Back-up lamp connection (in instrument panel wiring harness)
- **B169** Positive connection 1 (30) (in interior wiring harness)
- **W9** Positive connection 1 (30) (in rear wiring harness)
- **W33** Back-up lamp connection (in rear lid wiring harness)

* Only for vehicles with Japan equipment
*2 Only for vehicles with Korea equipment
*3 Not for vehicles with Korea equipment

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **bl** = blue
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vl** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Radio/navigation display unit control module, Navigation system control module, Rearview camera

- J503 Radio/navigation display unit control module
- J856 Navigation system control module
- R189 Rearview camera
- T5s 5-pin connector, in the right rear side panel
- T5t 5-pin connector, in the rear lid
- T20i 20-pin connector
- T26d 26-pin connector
  - * Not for vehicles with Korea equipment
  - *2 Only for vehicles with Korea equipment
  - *3 Only for vehicles without Japan equipment

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

https://www.automotive-manuals.net/
Engine preheating, (7VP)
from July 2008
Exterior socket, 230 V, 110 V, Engine preheating element

- T1u  Single connector
- T2ap Double connector
- U8  Exterior socket, 230 V, 110 V, behind the right front bumper
- Z97  Engine preheating element

- 209  Ground connection 6 (in engine compartment wiring harness)
- 655  Ground connection on left headlamp
  * Depending on equipment

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

https://www.automotive-manuals.net/
Network data bus
from July 2008
Battery, Terminal 15 power supply relay, Battery monitoring control module, Fuse 5 (on fuse panel A)

- **A** Battery
- **B** Starter
- **C** Generator
- **J329** Terminal 15 power supply relay
- **J367** Battery monitoring control module
- **SA5** Fuse 5 (on fuse panel A)
- **T2bn** Double connector
- **T2c** Double connector, near the starter

1. Ground strap, battery to body

508. Terminal 30 threaded connection (on E-box)

B169. Positive connection 1 (30) (in interior wiring harness)

B319. Positive connection 5 (30a) (in main wiring harness)

B698. LIN bus connection 3 (in main wiring harness)

* Through October 2009
*2 from November 2009
*3 E-Box high
*4 Only for vehicles without Start/Stop system
*5 Only for vehicles with Start/Stop system
*6 E-Box low

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

https://www.automotive-manuals.net/
Interior monitoring sensor, Rain/light recognition sensor, Alarm horn, Wiper motor control module, Driver windshield wiper motor

- G273: Interior monitoring sensor
- G397: Rain/light recognition sensor
- H12: Alarm horn
- J400: Wiper motor control module
- J519: Vehicle electrical control module system
- T2i: Double connector, under the instrument panel, left
- T3ae: 3-pin connector
- T3f: 3-pin connector
- T4ap: 4-pin connector
- T4q: 4-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector
- V216: Driver windshield wiper motor

- Ground connection in right front footwell
- Ground connection 1 (in main wiring harness)
- Ground connection 22 (in main wiring harness)
- Comfort system CAN bus high connection 1 (in main wiring harness)
- Comfort system CAN bus high connection 2 (in main wiring harness)
- Comfort system CAN bus low connection 1 (in main wiring harness)
- Comfort system CAN bus low connection 2 (in main wiring harness)
- LIN bus connection 1 (in main wiring harness)
- LIN bus connection 2 (in main wiring harness)

- Only for vehicles with trailer socket
- Only for vehicles without a trailer socket
- Only for vehicles without Start/Stop system
- Only for vehicles with Start/Stop system

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Multifunction indicator, Instrument cluster control module, Data bus on board diagnostic interface

- **H3**: Warning buzzer and tone
- **J119**: Multifunction indicator
- **J285**: Instrument cluster control module
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console
- **K**: Instrument cluster
- **T16**: 16-pin connector
- **T20**: 20-pin connector
- **T32**: 32-pin connector
- **U31**: Diagnostic connection

- **387**: Ground connection 22 (in main wiring harness)
- **A76**: KS-diagnostic lead connection (in instrument panel wiring harness)
- **A178**: Infotainment CAN bus high connection (in instrument panel wiring harness)
- **A179**: Infotainment CAN bus low connection (in instrument panel wiring harness)
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness)
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness)

* Only for vehicles with Start/Stop system
*2 from May 2011

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Compass magnetic field sensor, Climatronic control module, Towing recognition control module, Auxiliary heater control module, Cell phone operating electronics control module, Radio/navigation display unit control module, Radio, Amplifier, TV tuner, External multimedia device interface

G197 Compass magnetic field sensor
J255 Climatronic control module
J345 Towing recognition control module
J364 Auxiliary heater control module
J412 Cell phone operating electronics control module
J503 Radio/navigation display unit control module
R Radio
R12 Amplifier
R78 TV tuner
R215 External multimedia device interface
T2j Double connector, behind the instrument panel, center
T2w Double connector, behind the instrument panel, left
T8ao 8-pin connector
T8f 8-pin connector
T12h 12-pin connector
T12t 12-pin connector
T16b 16-pin connector
T20q 20-pin connector
T38 38-pin connector
T54 54-pin connector
T54a 54-pin connector
A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
B397 Comfort system CAN bus high connection 1 (in main wiring harness)
B406 Comfort system CAN bus low connection 1 (in main wiring harness)

* Only for vehicles with control module for special purpose vehicles
*2 Only for vehicles with trailer setup

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

https://www.automotive-manuals.net/
A/C control module, Driver door control module, Front passenger door control module, Left rear door control module, Right rear door control module, Multifunction steering wheel control module, Access/start authorization control module, Steering column electronics control module

F350  Spiral spring
J301  A/C control module
J302  Driver door control module, in the left rear side panel
J307  Front passenger door control module
J308  Left rear door control module
J309  Right rear door control module
J453  Multifunction steering wheel control module, in the steering wheel
J518  Access/start authorization control module
J527  Steering column electronics control module
T5k  5-pin connector
T12k  12-pin connector
T16r  16-pin connector
T18c  18-pin connector
T18d  18-pin connector
T20a  20-pin connector
T20b  20-pin connector
T20p  20-pin connector
T28  28-pin connector, in the left A-pillar connector station
T28a  28-pin connector, in the connector station, right A-pillar
T28b  28-pin connector, behind the lower left B-pillar trim
T28c  28-pin connector, behind the lower right B-pillar trim
T32d  32-pin connector

B397  Comfort system CAN bus high connection 1 (in main wiring harness)
B406  Comfort system CAN bus low connection 1 (in main wiring harness)

* from May 2010

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

https://www.automotive-manuals.net/
Selector lever, Transmission control module, Airbag control module, Electronic damping control module, Parking aid control module, Multifunction steering wheel control module, Steering column electronics control module, Selector lever sensor system control module, DSG transmission Mechatronic, Parallel parking assistance control module, Driver assistance systems front camera, Automatic dimming interior rearview mirror

E313  Selector lever
F350    Spiral spring
J217  Transmission control module
J234  Airbag control module
J250  Electronic damping control module
J446  Parking aid control module
J453  Multifunction steering wheel control module, in the steering wheel
J527  Steering column electronics control module
J587  Selector lever sensor system control module
J743  DSG transmission Mechatronic
J791  Parallel parking assistance control module
R242  Driver assistance systems front camera
T6bl  6-pin connector
T8ak  8-pin connector
T10s  10-pin connector, under the selector lever
T10x  10-pin connector
T12k  12-pin connector
T16h  16-pin connector
T16m  16-pin connector
T20d  20-pin connector
T20e  20-pin connector
T25  25-pin connector
T47d  47-pin connector
T50  50-pin connector
T52  52-pin connector
T75  75-pin connector
Y7   Automatic dimming interior rearview mirror

* through April 2010

B383  Powertrain CAN bus high connection 1 (in main wiring harness)
B390  Powertrain CAN bus low connection 1 (in main wiring harness)
B397  Comfort system CAN bus high connection 1 (in main wiring harness)
B406  Comfort system CAN bus low connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
ABS control module, Power steering control module, Engine control module, Left headlamp power output module, Right headlamp power output module, Cornering lamp and headlamp range control module, Structure borne sound control module

- J104 ABS control module
- J500 Power steering control module
- J623 Engine control module
- J667 Left headlamp power output module
- J668 Right headlamp power output module
- J745 Cornering lamp and headlamp range control module
- J869 Structure borne sound control module

- T3bq 3-pin connector, near the left headlamp
- T14e 14-pin connector, on the left headlamp
- T14f 14-pin connector, on the right headlamp
- T24a 24-pin connector
- T24b 24-pin connector
- T26a 26-pin connector
- T26h 26-pin connector
- T47c 47-pin connector
- T80 80-pin connector
- T94 94-pin connector
- T121 121-pin connector

- B229 High bus connection (in interior wiring harness)
- B230 Low bus connection (in interior wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
2.5L gasoline engine, CBTA, CBUA
from May 2009
Battery, Starter, Generator, Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 27 (on fuse panel C)

A  Battery
B  Starter
C  Generator
C1 Voltage regulator
SA1 Fuse 1 (on fuse panel A)
SC2 Fuse 2 (on fuse panel C)
SA5 Fuse 5 (on fuse panel A)
SC27 Fuse 27 (on fuse panel C)
T2 2-pin connector
T2c 2-pin connector, near the starter
T4t 4-pin connector, near the starter

1  Ground strap, battery to body

508  Terminal 30 threaded connection (on E-box)

B169  Positive connection 1 (30) (in interior wiring harness)

B177  Connection 61 (in interior wiring harness)

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

D110  Connection 8 (in engine compartment wiring harness)

* Only for vehicles with A/C system
*2 Only for vehicles without an A/C system

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

https://www.automotive-manuals.net/
Fuel pump relay, Terminal 15 power supply relay, Fuel primer relay, Terminal 50 power supply relay, Fuse panel B

- J17: Fuel pump relay
- J329: Terminal 15 power supply relay
- J643: Fuel primer relay
- J682: Terminal 50 power supply relay
- SB: Fuse panel B
- SB6: Fuse 6 (on fuse panel B)
- SB7: Fuse 7 (on fuse panel B)
- T40: 40-pin connector

- **14**: Ground connection on transmission
- **508**: Terminal 30 threaded connection (on E-box)
- **652**: Transmission/engine ground connection
- **A193**: Connection 87a (in instrument panel wiring harness)
- **B156**: Positive connection (30a) (in interior wiring harness)
- **B163**: Positive connection 1 (15) (in interior wiring harness)
- **B504**: Positive connection 8 (30a) (in interior wiring harness)
- **B660**: Diagnostic terminal 50 connection (in main wiring harness)

- *3 Through October 2009
- *2 from November 2009
- *4 Only for vehicles without access/start authorization system
- *5 from May 2010
- *6 only for vehicles with access/start authorization system

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

https://www.automotive-manuals.net/
Secondary air injection pump relay, Fuse panel B, Secondary air injection pump motor

- J299  Secondary air injection pump relay
- SB  Fuse panel B
- SB10  Fuse 10 (on fuse panel B)
- SB14  Fuse 14 (on fuse panel B)
- SB15  Fuse 15 (on fuse panel B)
- SB20  Fuse 20 (on fuse panel B)
- SB21  Fuse 21 (on fuse panel B)
- SB22  Fuse 22 (on fuse panel B)
- SB23  Fuse 23 (on fuse panel B)
- SB27  Fuse 27 (on fuse panel B)
- T14a  14-pin connector, near the battery
- T40  40-pin connector
- V101  Secondary air injection pump motor

- 640  Ground connection 2 in engine compartment, left
- D78  Positive connection 1 (30a) (in engine compartment wiring harness)
- D197  Connection 5 (87a) (in engine compartment wiring harness)

* Depending on equipment
*2 Only for vehicles with a manual transmission
*3 Only for vehicles with automatic transmission
*4 from November 2010

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

https://www.automotive-manuals.net/
Motronic engine control module power supply relay, Engine control module, Fuse panel B

- J271: Motronic engine control module power supply relay
- J623: Engine control module, in the center plenum chamber
- SB: Fuse panel B
- SB13: Fuse 13 (on fuse panel B)
- SB24: Fuse 24 (on fuse panel B)
- T40: 40-pin connector
- T94: 94-pin connector

- 131: Ground connection 2 (in engine compartment wiring harness)
- 607: Ground connection in plenum chamber, left
- B441: Cruise control connection (in main wiring harness)
- D78: Positive connection 1 (30a) (in engine compartment wiring harness)
- 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 = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

https://www.automotive-manuals.net/
**Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plugs**

- **J623** Engine control module, in the center plenum chamber
- **N70** Ignition coil 1 with power output stage
- **N127** Ignition coil 2 with power output stage
- **N291** Ignition coil 3 with power output stage
- **N292** Ignition coil 4 with power output stage
- **P** Spark plug connectors
- **Q** Spark plugs
- **T14a** 14-pin connector, near the battery
- **T60** 60-pin connector
- **T94** 94-pin connector

- **15** Ground connection on cylinder head
- **85** Ground connection 1 (in engine compartment wiring harness)
- **281** Ground connection 1 (in engine pre-wiring harness)
- **642** Electronic fan control ground connection
- **(D206)** Connection 87a (in engine pre-wiring harness) 4

**Legend:**

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vl** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Engine coolant temperature sensor, Engine coolant temperature sensor on radiator outlet, Throttle valve control module, Engine control module, Ignition coil 5 with power output stage

G62  Engine coolant temperature sensor
G83  Engine coolant temperature sensor on radiator outlet
G186  EPC throttle drive
G187  EPC throttle drive angle sensor 1
G188  EPC throttle drive angle sensor 2
J338  Throttle valve control module
J623  Engine control module, in the center plenum chamber
N323  Ignition coil 5 with power output stage
P  Spark plug connectors
Q  Spark plugs
T6x  6-pin connector
T60  60-pin connector
T94  94-pin connector

85  Ground connection 1 (in engine compartment wiring harness)
281  Ground connection 1 (in engine pre-wiring harness)
D108  Connection 6 (in engine compartment wiring harness)
D109  Connection 7 (in engine compartment wiring harness)
D206  Connection 87a (in engine pre-wiring harness) 4

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

https://www.automotive-manuals.net/
Camshaft position sensor, Intake air temperature sensor, Knock sensor 1, Knock sensor 2, Manifold absolute pressure sensor, Secondary air injection sensor 1, Engine control module

- **G40**: Camshaft position sensor
- **G42**: Intake air temperature sensor
- **G61**: Knock sensor 1
- **G66**: Knock sensor 2
- **G71**: Manifold absolute pressure sensor
- **G609**: Secondary air injection sensor 1
- **J623**: Engine control module, in the center plenum chamber

**Connector Descriptions**
- **T3d**: 3-pin connector
- **T3w**: 3-pin connector, on the engine, front
- **T3y**: 3-pin connector, on the engine, front
- **T4bu**: 4-pin connector
- **T60**: 60-pin connector
- **220**: Sensor ground connection (in engine wiring harness)
- **D101**: Connection 1 (in engine compartment wiring harness)

**Color Codes**
- **ws**: white
- **sw**: black
- **ro**: red
- **rt**: red
- **br**: brown
- **gn**: green
- **bl**: blue
- **gr**: grey
- **li**: lilac
- **vi**: lilac
- **ge**: yellow
- **or**: orange
- **rs**: pink
Engine speed sensor, Camshaft position sensor, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector, Cylinder 5 fuel injector, Leak detection pump

- G28 Engine speed sensor
- G40 Camshaft position sensor
- J623 Engine control module, in the center plenum chamber
- N30 Cylinder 1 fuel injector
- N31 Cylinder 2 fuel injector
- N32 Cylinder 3 fuel injector
- N33 Cylinder 4 fuel injector
- N83 Cylinder 5 fuel injector
- T3d 3-pin connector
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector
- V144 Leak detection pump

Sensor ground connection (in engine compartment wiring harness)

Injector connection (in engine compartment wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module, EVAP canister purge regulator valve 1, Secondary air injection solenoid valve, Camshaft adjustment valve 1

- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- J623 Engine control module, in the center plenum chamber
- N80 EVAP canister purge regulator valve 1
- N112 Secondary air injection solenoid valve
- N205 Camshaft adjustment valve 1
- T4x 4-pin connector, on the lower left coolant fan
- T6h 6-pin connector
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

(D180) Connection 87a (in engine compartment wiring harness)

(D181) Connection 2 (87a) (in engine compartment wiring harness)

* Radiator fan connection

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

https://www.automotive-manuals.net/
Heated oxygen sensor, Oxygen sensor after catalytic converter, Center oxygen sensor for bank 1 catalytic converter, Engine control module

- G39  Heated oxygen sensor
- G130  Oxygen sensor after catalytic converter
- G465  Center oxygen sensor for bank 1 catalytic converter
- J623  Engine control module, in the center plenum chamber
- T4au  4-pin connector, near the oxygen sensor
- T4v  4-pin connector, in the engine compartment, front
- T6w  6-pin connector, in the engine compartment, rear
- T94  94-pin connector
- Z19  Oxygen sensor heater
- Z29  Heater for oxygen sensor 1 after catalytic converter

* Depending on equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gn = grey
li = lilac
vi = lilac
gc = yellow
or = orange
rs = pink
Brake lamp switch, Center oxygen sensor for bank 1 catalytic converter, Clutch position sensor, Engine control module

F  Brake lamp switch
G465  Center oxygen sensor for bank 1 catalytic converter
G476  Clutch position sensor
J623  Engine control module, in the center plenum chamber
T4au  4-pin connector, near the oxygen sensor
T4bc  4-pin connector
T5m  5-pin connector
T94  94-pin connector
Z62  Oxygen sensor 3 heater

44  Ground connection on A-pillar, lower left
367  Ground connection 2 (in main wiring harness)
389  Ground connection 24 (in main wiring harness)
605  Ground connection on upper steering column
B131  Connection 54 (in interior wiring harness)
E30  Connection 87a (in engine wiring harness)

*  Depending on equipment
*2  Only for vehicles with a manual transmission
*3  from May 2011
*4  Only for vehicles with automatic transmission
*5  from November 2010

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gf = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Vehicle electrical control module system, Engine control module

F125  Multifunction transmission range switch
J104  ABS control module
J519  Vehicle electrical control module system
J527  Steering column electronics control module
J623  Engine control module, in the center plenum chamber
J764  Electronic steering column lock control module
T10q  10-pin connector, on the transmission
T16r  16-pin connector
T16s  16-pin connector
T20d  20-pin connector
T26a  26-pin connector
T47c  47-pin connector
T52b  52-pin connector
T52c  52-pin connector
T94   94-pin connector
B276  Positive connection (50) (in main wiring harness)
B383  Powertrain CAN bus high connection 1 (in main wiring harness)
B390  Powertrain CAN bus low connection 1 (in main wiring harness)
B485  Connection 1 (in main wiring harness)
B485  Connection 21 (in main wiring harness)

* from May 2010
*2 through April 2010
*3 Only for vehicles without access/start authorization system
*4 Only for vehicles with automatic transmission
*5 Only for vehicles with a manual transmission
*6 only for vehicles with access/start authorization system

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

https://www.automotive-manuals.net/
Multifunction indicator, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **K** Instrument cluster
- **K83** Malfunction indicator lamp
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T32** 32-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **U31** Diagnostic connection
- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398** Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407** Comfort system CAN bus low connection 2 (in main wiring harness)

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel level sensor, Fuel gauge, Engine coolant temperature gauge, Transfer fuel pump, Engine coolant level sensor, Instrument cluster control module

F1  Oil pressure switch
G  Fuel level sensor
G1  Fuel gauge
G3  Engine coolant temperature gauge
G6  Transfer fuel pump
G32  Engine coolant level sensor
H3  Warning buzzer and tone
J285  Instrument cluster control module
K  Instrument cluster
K3  Oil pressure indicator lamp
K31  Cruise control indicator lamp
K38  Oil level indicator lamp
K105  Low fuel level indicator lamp
K132  Electronic power control malfunction indicator lamp
T5b  5-pin connector
T14a  14-pin connector, near the battery
T32  32-pin connector

383  Ground connection 18 (in main wiring harness)
410  Sensor ground connection 1 (in main wiring harness)
682  Ground connection 2 in right rear side panel

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

https://www.automotive-manuals.net/
Automatic transmission 6-speed, (0ER)
from May 2009
Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 7 (on fuse panel B), Fuse 14 (on fuse panel C), Fuse 30 (on fuse panel C)

A Battery
B Starter
C Generator

J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
SA1 Fuse 1 (on fuse panel A)
SC2 Fuse 2 (on fuse panel C)
SA5 Fuse 5 (on fuse panel A)
SB Fuse panel B
SB7 Fuse 7 (on fuse panel B)
SC Fuse panel C
SC14 Fuse 14 (on fuse panel C)
SC30 Fuse 30 (on fuse panel C)
T40 40-pin connector

508 Terminal 30 threaded connection (on E-box)

B163 Positive connection 1 (15) (in interior wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B273 Positive connection (15) (in main wiring harness)
B278 Positive connection 2 (15a) (in main wiring harness)
B315 Positive connection 1 (30a) (in main wiring harness)

* Through October 2009
*2 from November 2009
*3 Only for vehicles with 90 A/120 A generator
*4 Only for vehicles with a generator (140 A)
Transmission control module

- F125: Multifunction transmission range switch
- J217: Transmission control module, under the left front wheel housing cover
- T10q: 10-pin connector, on the transmission
- T52: 52-pin connector
  - 44: Ground connection on A-pillar, lower left
  - 132: Ground connection 3 (in engine compartment wiring harness)
  - 367: Ground connection 2 (in main wiring harness)
  - 376: Ground connection 11 (in main wiring harness)
  - 605: Ground connection on upper steering column
  - 655: Ground connection on left headlamp
  - D136: Positive connection 2 (15a) (in engine compartment wiring harness)

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
J217  Transmission control module, under the left front wheel housing cover

N88  Solenoid valve 1
N89  Solenoid valve 2
N90  Solenoid valve 3
N91  Solenoid valve 4
N92  Solenoid valve 5
N93  Solenoid valve 6
N282  Solenoid valve 9
N283  Solenoid valve 10
T14c  14-pin connector, on the transmission
T52  52-pin connector

Transmission control module, Solenoid valve 1, Solenoid valve 2, Solenoid valve 3, Solenoid valve 4, Solenoid valve 5, Solenoid valve 6, Solenoid valve 9, Solenoid valve 10

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gi = grey
di = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
tiptronic switch, Selector lever park position lock switch,
Transmission control module, Shift lock solenoid,
Transmission range display

F189  tiptronic switch
F319  Selector lever park position lock switch
J217  Transmission control module, under the left front wheel housing cover
J527  Steering column electronics control module
J764  Electronic steering column lock control module
N110  Shift lock solenoid
T2p   2-pin connector, under the selector lever
T10s  10-pin connector, under the selector lever
T10v  10-pin connector, under the selector lever
T16r  16-pin connector
T16s  16-pin connector
T20d  20-pin connector
T52   52-pin connector
Y6    Transmission range display

47  Ground connection in right front footwell
366 Ground connection 1 (in main wiring harness)
388  Ground connection 23 (in main wiring harness)
B454 Shift lock connection (in main wiring harness)
*   from May 2010
*2  through April 2010
*3  Only for vehicles without access/start authorization system
*4  only for vehicles with access/start authorization system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
tiptronic switch, Transmission fluid temperature sensor, Transmission input speed sensor, Transmission control module, Transmission range display

F189  tiptronic switch
G93   Transmission fluid temperature sensor
G182  Transmission input speed sensor
J217  Transmission control module, under the left front wheel housing cover
T8h   8-pin connector, Transmission prewiring
T10s  10-pin connector, under the selector lever
T10v  10-pin connector, under the selector lever
T52   52-pin connector
Y6    Transmission range display
A76   KS-diagnostic lead connection (in instrument panel wiring harness)

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

https://www.automotive-manuals.net/
### Transmission Output Speed Sensor, Transmission Control Module, Data Bus on Board Diagnostic Interface

- **G195**: Transmission output speed sensor
- **J217**: Transmission control module, under the left front wheel housing cover
- **J519**: Vehicle electrical control module system
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console
- **T8h**: 8-pin connector, Transmission prewiring
- **T16**: 16-pin connector
- **T20**: 20-pin connector
- **T52**: 52-pin connector
- **T52b**: 52-pin connector
- **T52c**: 52-pin connector
- **U31**: Diagnostic connection

#### Connection Descriptions
- **B340**: Connection 58d (in main wiring harness) 1
- **B383**: Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390**: Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398**: Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407**: Comfort system CAN bus low connection 2 (in main wiring harness)

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

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Multifunction indicator, Instrument cluster control module

- J119 Multifunction indicator
- J285 Instrument cluster control module
- K Instrument cluster
- T32 32-pin connector

Legend:

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
All wheel drive (4MOTION), (1X1)
from November 2008
Terminal 15 power supply relay, All wheel drive control module, Fuse panel B, Fuse panel C, Haldex clutch pump

- Battery (A)
- Starter (B)
- Brake lamp switch (F)
- J329 Terminal 15 power supply relay
- J492 All wheel drive control module, on the rear final drive
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SC2 Fuse 2 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB49 Fuse 49 (on fuse panel B)
- SC Fuse panel C
- T4bc 4-pin connector
- T6by 6-pin connector
- T8bz 6-pin connector
- T8s 8-pin connector
- T40 40-pin connector
- TSAA All wheel drive coupling point, on all wheel drive

- V181 Haldex clutch pump
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 369 Ground connection 4 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- 662 Ground connection in left rear side panel
- B131 Connection 54 (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
Fuel level sensor 2, Oil pressure/temperature sensor, Instrument cluster control module, All wheel drive control module, Data bus on board diagnostic interface, Haldex clutch control valve

G169 Fuel level sensor 2
G437 Oil pressure/temperature sensor
J285 Instrument cluster control module
J492 All wheel drive control module, on the rear final drive
J519 Vehicle electrical control module system
J533 Data bus on board diagnostic interface, in the left footwell, near the center console
K Instrument cluster
K105 Low fuel level indicator lamp
N373 Haldex clutch control valve
T2ai Double connector
T16 16-pin connector
T20 20-pin connector
T32 32-pin connector
T52b 52-pin connector
T52c 52-pin connector
U31 Diagnostic connection

410 Sensor ground connection 1 (in main wiring harness)
(B397) Comfort system CAN bus high connection 1 (in main wiring harness)
(B398) Comfort system CAN bus high connection 2 (in main wiring harness)
(B406) Comfort system CAN bus low connection 1 (in main wiring harness)
(B407) Comfort system CAN bus low connection 2 (in main wiring harness)

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

https://www.automotive-manuals.net/
Adaptive cruise control
from May 2009
Terminal 15 power supply relay, Fuse 1 (on fuse panel C), Fuse 7 (on fuse panel B)

- A Battery
- B Starter
- J329 Terminal 15 power supply relay
- J623 Engine control module
- J682 Terminal 50 power supply relay
- SB Fuse panel B
- SC1 Fuse 1 (on fuse panel C)
- SC7 Fuse 7 (on fuse panel B)
- SC Fuse panel C
- T40 40-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A192 Positive connection 3 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B441 Cruise control connection (in main wiring harness)

* Refer to applicable engine wiring diagram
*2 From November 2009
*3 Through October 2009

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
gy = yellow
or = orange
rs = pink
Adaptive cruise control sensor, Distance regulation control module, Vehicle electrical system control module, Data bus on board diagnostic interface

- G550: Adaptive cruise control sensor
- J428: Distance regulation control module
- J519: Vehicle electrical system control module
- J533: Data bus on board diagnostic interface
- T3bp: 3-pin connector
- T6ay: 6-pin connector
- T20: 20-pin connector
- Z47: Adaptive cruise control sensor heater
- 380: Ground connection 15 (in main wiring harness)
- B383: Powertrain CAN bus high connection 1 (in main wiring harness)
- B390: Powertrain CAN bus low connection 1 (in main wiring harness)
- B398: Comfort system CAN bus high connection 2 (in main wiring harness)
- B407: Comfort system CAN bus low connection 2 (in main wiring harness)

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

https://www.automotive-manuals.net/
Turn signal switch, Headlamp dimmer/flasher switch, Cruise control switch, Cruise control -SET- button, Adaptive cruise control button, Steering column electronics control module

- E2 Turn signal switch
- E4 Headlamp dimmer/flasher switch
- E45 Cruise control switch
- E227 Cruise control -SET- button
- E357 Adaptive cruise control button
- J527 Steering column electronics control module
- T8q 8-pin connector
- T10y 10-pin connector
- T20d 20-pin connector

- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

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

https://www.automotive-manuals.net/
Standard equipment (NAR)
from May 2009
Battery, Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 5 (on fuse panel A), Fuse panel B

A  Battery
B  Starter
C  Generator
J329  Terminal 15 power supply relay
J682  Terminal 50 power supply relay
SA1  Fuse 1 (on fuse panel A)
SB3  Fuse 3 (on fuse panel B)
SA5  Fuse 5 (on fuse panel A)
SB  Fuse panel B
SB7  Fuse 7 (on fuse panel B)
T40  40-pin connector

1  Ground strap, battery to body
14  Ground connection on transmission
508  Terminal 30 threaded connection (on E-box)
652  Transmission/engine ground connection
B163  Positive connection 1 (15) (in interior wiring harness)
B169  Positive connection 1 (30) (in interior wiring harness)
B319  Positive connection 5 (30a) (in main wiring harness)

*  Through October 2009
*2  from November 2009
*3  Only for vehicles with 90 A/120 A generator
*4  Only for vehicles with a generator (140 A)

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

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

SC  Fuse panel C
SC1  Fuse 1 (on fuse panel C)
SC4  Fuse 4 (on fuse panel C)
SC13  Fuse 13 (on fuse panel C)
SC15  Fuse 15 (on fuse panel C)
SC17  Fuse 17 (on fuse panel C)

A167  Positive connection 3 (30a) (in instrument panel wiring harness)
A192  Positive connection 3 (15a) (in instrument panel wiring harness)
A217  Positive connection 8 (15a) (in instrument panel wiring harness)
B318  Positive connection 4 (30a) (in main wiring harness)
B503  Positive connection 7 (30a) (in interior wiring harness)

* from November 2009
*2 not for vehicles with dual clutch transmission
*3 only for vehicles without automatic transmission
*4 Only for vehicles with rain/light recognition sensor
*5 Through October 2010

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

https://www.automotive-manuals.net/
Load reduction relay, Fuse panel C

- J59: Load reduction relay
- J519: Vehicle electrical control module system
- SC: Fuse panel C
- SC14: Fuse 14 (on fuse panel C)
- SC24: Fuse 24 (on fuse panel C)
- SC25: Fuse 25 (on fuse panel C)
- SC40: Fuse 40 (on fuse panel C)
- SC41: Fuse 41 (on fuse panel C)
- SC42: Fuse 42 (on fuse panel C)
- T52a: 52-pin connector
- T52b: 52-pin connector

- **B162**: Connection 75a (in interior wiring harness)
- **B170**: Positive connection 2 (30) (in interior wiring harness)
- **B315**: Positive connection 1 (30a) (in main wiring harness)

* Through October 2009
*2 from November 2009
*3 Only for vehicles with auxiliary coolant heater

**Legend**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vl = lilac
- ge = yellow
- or = orange
- rs = pink
Ignition/starter switch, Steering column electronics control module, Ignition switch key lock solenoid

- **D** Ignition/starter switch
- **F319** Selector lever park position lock switch
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **N376** Ignition switch key lock solenoid, on the ignition/starter switch
- **T6l** 6-pin connector
- **T10s** 10-pin connector, under the selector lever
- **T12j** 12-pin connector
- **T20d** 20-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

- **B276** Positive connection (50) (in main wiring harness)
- **B465** Connection 1 (in main wiring harness)

* Only for vehicles with DSG transmission

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

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https://www.automotive-manuals.net/
Signal horn activation, Steering column electronics control module, Driver airbag igniter

F350  Spiral spring
H  Signal horn activation
J234  Airbag control module
J519  Vehicle electrical control module system
J527  Steering column electronics control module
J623  Engine control module
N95  Driver airbag igniter
T4k  4-pin connector
T10x  10-pin connector
T12k  12-pin connector
T20d  20-pin connector
T50  50-pin connector
T75  75-pin connector

B441  Cruise control connection (in main wiring harness)

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

https://www.automotive-manuals.net/
Turn signal switch, Headlamp dimmer/flasher switch, Windshield wiper intermittent mode switch, Rear window wiper switch, Windshield wiper intermittent regulator, Windshield and headlamp washer pump switch, Cruise control switch, Multifunction indicator selection switch, Multifunction indicator memory switch, Cruise control -SET- button, Steering column electronics control module

- E2 Turn signal switch
- E4 Headlamp dimmer/flasher switch
- E22 Windshield wiper intermittent mode switch
- E34 Rear window wiper switch
- E38 Windshield wiper intermittent regulator
- E44 Windshield and headlamp washer pump switch
- E45 Cruise control switch
- E86 Multifunction indicator selection switch
- E109 Multifunction indicator memory switch
- E227 Cruise control -SET- button
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- T8y 8-pin connector
- T10ae 10-pin connector

* Only for vehicles with multifunction display
*2 Only for vehicles with cruise control

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

https://www.automotive-manuals.net/
Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp bulb, Left position lamp bulb, Left front turn signal bulb, Left low beam headlamp bulb, Left high beam headlamp bulb, Left front side marker lamp bulb

J519  Vehicle electrical control module system
L22   Left front fog lamp bulb
L148  Left cornering lamp bulb
L174  Left daytime running lamp bulb
M1    Left position lamp bulb
M5    Left front turn signal bulb
M29   Left low beam headlamp bulb
M30   Left high beam headlamp bulb
M33   Left front side marker lamp bulb
T2bc  2-pin connector
T10i  10-pin connector, on the left headlamp
T52a  52-pin connector
T52c  52-pin connector

125  Ground connection 3 (in headlamp wiring harness)
376  Ground connection 11 (in main wiring harness)
381  Ground connection 16 (in main wiring harness)
392  Ground connection 27 (in main wiring harness)
655  Ground connection on left headlamp
B144  Positive connection (58L) (in interior wiring harness)
C69   Fog lamp connection (in left front wiring harness)

*  Only for vehicles with fog lamps

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

https://www.automotive-manuals.net/
Instrument panel and switch illumination dimmer switch, Back-up lamp switch, Engine hood contact switch, High tone horn, Low tone horn, Dual tone horn relay

- **E20**: Instrument panel and switch illumination dimmer switch
- **F4**: Back-up lamp switch
- **F266**: Engine hood contact switch
- **H2**: High tone horn
- **H7**: Low tone horn
- **J4**: Dual tone horn relay
- **J519**: Vehicle electrical control module system

**Ground connection numbers**:
- **376**: Ground connection 11 (in main wiring harness)
- **378**: Ground connection 13 (in main wiring harness)

**Dual tone horn connections**:
- **A90**: Dual tone horn connection (in instrument panel wiring harness)
- **B521**: Dual tone horn connection (in main wiring harness)

* from November 2009
*2 Through October 2009
*3 not for vehicles with dual clutch transmission
*4 only for vehicles without automatic transmission

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

https://www.automotive-manuals.net/
Right front fog lamp bulb, Right cornering lamp bulb, Right position lamp bulb, Right front turn signal bulb, Right low beam headlamp bulb, Right high beam headlamp bulb, Right front side marker lamp bulb

J519  Vehicle electrical control module system  
L23   Right front fog lamp bulb  
L149  Right cornering lamp bulb  
L175  Right daytime running lamp bulb  
M3    Right position lamp bulb  
M7    Right front turn signal bulb  
M31   Right low beam headlamp bulb  
M32   Right high beam headlamp bulb  
M34   Right front side marker lamp bulb  
T2bd  2-pin connector  
T10j  10-pin connector, on the right headlamp  
T52a  52-pin connector  
T52c  52-pin connector  
240   Ground connection 4 (in headlamp wiring harness)  
373   Ground connection 8 (in main wiring harness)  
378   Ground connection 13 (in main wiring harness)  
393   Ground connection 28 (in main wiring harness)  
656   Ground connection on right headlamp  
B143  Positive connection (58R) (in interior wiring harness)  
D59   Fog lamp connection (in engine compartment wiring harness)  
*     Only for vehicles with fog lamps  

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
 gn = green  
 bl = blue  
gr = grey  
l = lilac  
vi = lilac  
ge = yellow  
or = orange  
rs = pink
Light switch, Fog lamp switch, Fog lamp indicator lamp,
Automatic light control indicator lamp

- **E1** Light switch
- **E7** Fog lamp switch
- **J519** Vehicle electrical control module system
- **K17** Fog lamp indicator lamp
- **K209** Automatic light control indicator lamp
- **L9** Headlamp switch illumination bulb

**T10h** 10-pin connector
**T52a** 52-pin connector
**T52b** 52-pin connector

* Only for vehicles with fog lamps
*2 Only for vehicles with automatic headlamp assist

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

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https://www.automotive-manuals.net/
Right tail lamp bulb, Left tail lamp bulb, Left rear turn signal bulb, Right rear turn signal bulb, Left back-up lamp bulb, Right back-up lamp bulb, Left brake/tail lamp bulb, Right brake/tail lamp bulb

- **J519** Vehicle electrical control module system
- **M2** Right tail lamp bulb
- **M4** Left tail lamp bulb
- **M6** Left rear turn signal bulb
- **M8** Right rear turn signal bulb
- **M16** Left back-up lamp bulb
- **M17** Right back-up lamp bulb
- **M21** Left brake/tail lamp bulb
- **M22** Right brake/tail lamp bulb
- **T3au** 3-pin connector
- **T3aw** 3-pin connector
- **T3ax** 3-pin connector
- **T5a** 5-pin connector, in the left rear side panel
- **T5c** 5-pin connector, in the left rear side panel
- **T5e** 5-pin connector, in the left rear side panel
- **T52a** 52-pin connector
- **T52c** 52-pin connector

**Ground connections**:
- **86** Ground connection 1 (in rear wiring harness)
- **98** Ground connection (in rear lid wiring harness)
- **369** Ground connection 4 (in main wiring harness)
- **662** Ground connection in left rear side panel
- **682** Ground connection 2 in right rear side panel
- **A87** Back-up lamp connection (in instrument panel wiring harness)

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

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Rear window defogger relay, Driver exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror turn signal bulb, High-mounted brake lamp bulb, Left license plate lamp, Right license plate lamp, Rear window defogger relay

J9  Rear window defogger relay
J386  Driver door control module
J387  Front passenger door control module
J519  Vehicle electrical control module system
L131  Driver exterior rearview mirror turn signal bulb
L132  Front passenger exterior rearview mirror turn signal bulb
M25  High-mounted brake lamp bulb
T2ac  2-pin connector
T2ah  2-pin connector
T2aj  2-pin connector, under the right rear bumper
T5a  5-pin connector, in the left rear side panel
T8l  8-pin connector
T16a  16-pin connector
T16g  16-pin connector
T20a  20-pin connector
T20b  20-pin connector
T28  28-pin connector, in the left A-pillar connector station
T28a  28-pin connector, in the connector station, right A-pillar
T28b  28-pin connector, in the connector station, right A-pillar
T52a  52-pin connector
T52b  52-pin connector
T52c  52-pin connector
X4  Left license plate lamp
X5  Right license plate lamp
Z1  Rear window defogger

86  Ground connection 1 (in rear wiring harness)
98  Ground connection (in rear lid wiring harness)
205  Ground connection (in driver door wiring harness)
206  Ground connection (in front passenger door wiring harness)
345  Ground connection (in bumper wiring harness)
W41  Positive connection (58) (in license plate lamp wiring harness)

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

* Through October 2009
*2 from November 2009
*3 Refer to applicable wiring diagram for radio/radio navigation system
*4 Only for vehicles with park distance control (PDC)
Emergency flasher button, Left washer nozzle heater, Right washer nozzle heater

E229  Emergency flasher button
J519  Vehicle electrical control module system
K6   Emergency flasher indicator lamp
T6   6-pin connector
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector
Z20  Left washer nozzle heater
Z21  Right washer nozzle heater

47   Ground connection in right front footwell
366  Ground connection 1 (in main wiring harness)
387  Ground connection 22 (in main wiring harness)
388  Ground connection 23 (in main wiring harness)
C72  Positive connection (in heated spray nozzle wiring harness)

* Only for vehicles with heated spray nozzles
*2 Only for vehicles with footwell lamp

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Rain/light recognition sensor, Wiper motor control module, Rear window wiper motor, Windshield and rear window washer pump, Driver windshield wiper motor

- **G397** Rain/light recognition sensor
- **J400** Wiper motor control module
- **J519** Vehicle electrical control module system
- **T3ae** 3-pin connector
- **T4q** 4-pin connector
- **T4u** 4-pin connector
- **T5e** 5-pin connector, in the left rear side panel
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **V12** Rear window wiper motor
- **V59** Windshield and rear window washer pump
- **V216** Driver windshield wiper motor

**Ground connection 22 (in main wiring harness)**

**Windshield washer pump connection 1 (in interior wiring harness)**

**Windshield washer pump connection 2 (in interior wiring harness)**

**LIN bus connection 1 (in main wiring harness)**

* Only for vehicles with rain/light recognition sensor

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ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
li = lilac  
vl = lilac  
ge = yellow  
or = orange  
rs = pink
Glove compartment lamp switch, Brake lamp switch,
Luggage compartment lamp, Glove compartment lamp

- E26  Glove compartment lamp switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4ab 4-pin connector
- T4bc 4-pin connector
- T5c 5-pin connector, in the left rear side panel
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W3 Luggage compartment lamp
- W6 Glove compartment lamp

44  Ground connection on A-pillar, lower left
195  Ground connection (in rear door contact switch wiring harness)
367  Ground connection 2 (in main wiring harness)
387  Ground connection 22 (in main wiring harness)
389  Ground connection 24 (in main wiring harness)
605  Ground connection on upper steering column
B131  Connection 54 (in interior wiring harness)
B559  Positive connection 1 (30g) (in main wiring harness)
*  Only for vehicles with rain/light recognition sensor
*2  Only for vehicles with footwell lamp

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

https://www.automotive-manuals.net/
Driver vanity mirror lamp contact switch, Front passenger vanity mirror lamp contact switch, Blocking diode, Cigarette lighter illumination bulb, Cigarette lighter, 12 V socket, Left footwell lamp, Right footwell lamp, Front passenger vanity mirror lamp, Driver vanity mirror lamp

- **F147**: Driver vanity mirror lamp contact switch
- **F148**: Front passenger vanity mirror lamp contact switch
- **J29**: Blocking diode
- **J519**: Vehicle electrical control module system
- **L28**: Cigarette lighter illumination bulb
- **T52b**: 52-pin connector
- **U1**: Cigarette lighter
- **U5**: 12 V socket
- **W9**: Left footwell lamp
- **W10**: Right footwell lamp
- **W14**: Front passenger vanity mirror lamp
- **W20**: Driver vanity mirror lamp

*47* Ground connection in right front footwell
*347* Ground connection (in roof wiring harness)
*383* Ground connection 18 (in main wiring harness)
*390* Ground connection 25 (in main wiring harness)
*682* Ground connection 2 in right rear side panel
*B250*: Positive connection (in roof wiring harness)
*B348*: Connection 75a (in main wiring harness) 1
*B433*: Footwell illumination connection (in main wiring harness)

* Only for vehicles with illuminated vanity mirror
*2* Flat conductor
*3* Only for vehicles with footwell lamp

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Fresh air blower switch, Heater/heat output switch, Fresh air blower series resistor with fuse, Fresh air blower, Recirculation door motor

- E9: Fresh air blower switch
- E16: Heater/heat output switch in the engine compartment, right
- E159: Fresh air/recirculation door switch
- E230: Rear window defogger button
- G143: Recirculation door motor position sensor
- J519: Vehicle electrical control module system
- K10: Rear window defogger indicator lamp
- K114: Fresh air and recirculation mode indicator lamp
- L16: Fresh air control illumination bulb
- N24: Fresh air blower series resistor with fuse
- T4f: 4-pin connector
- T5: 5-pin connector
- T6k: 6-pin connector
- T10k: 10-pin connector, behind the instrument panel, right
- T20c: 20-pin connector
- T52a: 52-pin connector
- T52b: 52-pin connector
- V2: Fresh air blower
- V113: Recirculation door motor

Legend:

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

602: Ground connection in left front footwell

L77: Connection (in fresh air blower wiring harness)

L78: Connection 1 (in fresh air blower wiring harness)

* Only for vehicles with auxiliary coolant heater
**Data bus on board diagnostic interface, Diagnostic connection**

- **J519**: Vehicle electrical control module system
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console
- **T16**: 16-pin connector
- **T20**: 20-pin connector
- **T52c**: 52-pin connector
- **U31**: Diagnostic connection
- **A76**: KS-diagnostic lead connection (in instrument panel wiring harness)
- **A178**: Infotainment CAN bus high connection (in instrument panel wiring harness)
- **A179**: Infotainment CAN bus low connection (in instrument panel wiring harness)
- **B383**: Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390**: Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398**: Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407**: Comfort system CAN bus low connection 2 (in main wiring harness)

**Legend**

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

[Diagram showing connections with labels and colors]
Anti-theft immobilizer reader coil, Brake fluid level warning switch, Warning buzzer and tone, Instrument cluster control module, Cruise control indicator lamp, Anti-theft immobilizer indicator lamp, Door ajar indicator lamp, Lamp failure indicator lamp, Hood "open" indicator lamp

- **D2** Anti-theft immobilizer reader coil
- **F34** Brake fluid level warning switch
- **H3** Warning buzzer and tone
- **J245** Power sunroof control module
- **J285** Instrument cluster control module
- **J362** Anti-theft immobilizer control module
- **K31** Cruise control indicator lamp
- **K32** Brake pad wear indicator lamp
- **K117** Anti-theft immobilizer indicator lamp
- **K166** Door ajar indicator lamp
- **K170** Lamp failure indicator lamp
- **K171** Hood "open" indicator lamp
- **T6c** 6-pin connector
- **T32** 32-pin connector
  - Speed signal
  - *2 only for vehicles with access/start authorization system
  - *3 Only for vehicles without access/start authorization system

**Symbols:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Parking brake indicator lamp switch, Tachometer, Speedometer, Windshield washer fluid level sensor, Left front brake pad wear sensor, Instrument cluster control module, High beam indicator lamp, Windshield washer fluid level indicator lamp

- F1 Oil pressure switch
- F9 Parking brake indicator lamp switch
- G5 Tachometer
- G21 Speedometer
- G33 Windshield washer fluid level sensor
- G34 Left front brake pad wear sensor
- J285 Instrument cluster control module
- K1 High beam indicator lamp
- K2 Generator indicator lamp
- K3 Oil pressure indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K37 Windshield washer fluid level indicator lamp
- K65 Indicator lamp for left turn signal
- K94 Right turn signal indicator lamp
- K105 Low fuel level indicator lamp
- K118 Brake system indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

- 410 Sensor ground connection 1 (in main wiring harness)
- (B379) Brake wear indicator connection 1 (in main wiring harness)
- (B380) Brake wear indicator connection 2 (in main wiring harness)

* Only for vehicles with brake pad wear indicator

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

https://www.automotive-manuals.net/
Fuel gauge, Engine coolant temperature gauge, Outside air temperature sensor, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Position lamp indicator lamp, Rear fog lamp indicator lamp, Engine electronics indicator lamp, Odometer display

G  Fuel level sensor
G1  Fuel gauge
G3  Engine coolant temperature gauge
G6  Transfer fuel pump
G17 Outside air temperature sensor
G32  Engine coolant level sensor
J119  Multifunction indicator
J285  Instrument cluster control module
J538  Fuel pump control module
K4  Position lamp indicator lamp
K13  Rear fog lamp indicator lamp
K149  Engine electronics indicator lamp
T5b  5-pin connector
T10n  10-pin connector
T32  32-pin connector
Y4  Odometer display

Sensor ground connection 1 (in main wiring harness)

ws  = white
sw  = black
ro  = red
rt  = red
br  = brown
gn  = green
bl  = blue
gl  = green
or  = orange
rs  = pink

https://www.automotive-manuals.net/
Comfort system (NAR), (0A1)
from July 2008
Terminal 15 power supply relay, Fuse 5 (on fuse panel A),
Fuse panel B, Fuse panel C

- A: Battery
- B: Starter
- J329: Terminal 15 power supply relay
- J682: Terminal 50 power supply relay
- SC4: Fuse 4 (on fuse panel C)
- SA5: Fuse 5 (on fuse panel A)
- SB: Fuse panel B
- SB7: Fuse 7 (on fuse panel B)
- SC: Fuse panel C
- SC12: Fuse 12 (on fuse panel C)
- SC15: Fuse 15 (on fuse panel C)
- SC17: Fuse 17 (on fuse panel C)
- SC23: Fuse 23 (on fuse panel C)
- SB29: Fuse 29 (on fuse panel B)
- SC33: Fuse 33 (on fuse panel C)
- T40: 40-pin connector

- 508: Terminal 30 threaded connection (on E-box)
- A1: Positive connection (30a) (in instrument panel wiring harness)
- B111: Positive connection 1 (30a) (in interior wiring harness)
- B163: Positive connection 1 (15) (in interior wiring harness)
- B169: Positive connection 1 (30) (in interior wiring harness)
- B318: Positive connection 4 (30a) (in main wiring harness)
- B503: Positive connection 7 (30a) (in interior wiring harness)
- S25: Positive connection (30a) (in central locking system wiring harness)

* Through October 2009
*2 from November 2009
*3 Only for vehicles with a sunroof
*4 For vehicles with anti-theft alarm system

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

https://www.automotive-manuals.net/
Left front window regulator switch, Right front power window switch in driver door, Driver interior locking button, Driver door control module, Central locking -SAFE- indicator lamp, Driver window regulator motor

- E40 Left front window regulator switch
- E81 Right front power window switch in driver door
- E308 Driver interior locking button
- J386 Driver door control module
- K133 Central locking -SAFE- indicator lamp
- K174 Driver interior locking indicator lamp
- L76 Push button illumination bulb
- T2u Double connector, in the driver door
- T4am 4-pin connector
- T4an 4-pin connector
- T20a 20-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- T32a 32-pin connector
- V147 Driver window regulator motor

**Ground connections**
- 44 Ground connection A-pillar, lower left
- 267 Ground connection 2 (in driver door wiring harness)
- R75 Connection 58d (in door control module wiring harness) 1

**Color codes**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Mirror folding switch, Driver door contact switch, Driver central locking lock unit, Driver door control module, Driver door central locking system motor

E43  Mirror adjusting switch
E48  Mirror selector switch
E231  Exterior rearview mirror heating switch
E263  Mirror folding switch
F2  Driver door contact switch
F220  Driver central locking lock unit
J386  Driver door control module
L78  Mirror adjustment switch illumination bulb
T6al  6-pin connector
T8aa  8-pin connector
T20a  20-pin connector
T32a  32-pin connector
V56  Driver door central locking system motor

* Only for vehicles with folding mirrors

Ground connection 2 (in driver door wiring harness)

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

https://www.automotive-manuals.net/
Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Driver door control module, Driver exterior rearview mirror turn signal bulb, Driver mirror adjustment motor 2, Driver exterior rearview mirror folding motor, Heated driver exterior rearview mirror

G791 Exterior rearview mirror horizontal adjustment position sensor
G792 Exterior rearview mirror vertical adjustment position sensor
J386 Driver door control module
L131 Driver exterior rearview mirror turn signal bulb
T2ab Double connector
T3ay 3-pin connector
T3g 3-pin connector
T16a 16-pin connector
T20a 20-pin connector
T28 28-pin connector, in the left A-pillar connector station
V17 Driver mirror adjustment motor 2
V121 Driver exterior rearview mirror folding motor
V149 Driver mirror adjustment motor
Z4 Heated driver exterior rearview mirror

* Depending on equipment
*2 Only for vehicles with folding mirrors
*3 Only for vehicles with automatic dimming exterior rearview mirror

Ground connection (in driver door wiring harness)

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

https://www.automotive-manuals.net/
Driver door control module, Front passenger exterior rearview mirror turn signal bulb, Driver entry lamp in exterior rearview mirror, Driver automatic dimming exterior rearview mirror, Heated front passenger exterior rearview mirror

- J386 Driver door control module
- J387 Front passenger door control module
- J533 Data bus on board diagnostic interface
- L132 Front passenger exterior rearview mirror turn signal bulb
- T2ad Double connector, on the mirror
- T3az 3-pin connector
- T16a 16-pin connector
- T16g 16-pin connector
- T20 20-pin connector
- T20a 20-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- W52 Driver entry lamp in exterior rearview mirror
- Y20 Driver automatic dimming exterior rearview mirror
- Z5 Heated front passenger exterior rearview mirror

- Ground connection (in front passenger door wiring harness)
- Comfort system CAN bus high connection 1 (in main wiring harness)
- Comfort system CAN bus low connection 1 (in main wiring harness)

* Only for vehicles with automatic dimming exterior rearview mirror

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>W52</td>
<td>Driver entry lamp in exterior rearview mirror</td>
</tr>
<tr>
<td>Y20</td>
<td>Driver automatic dimming exterior rearview mirror</td>
</tr>
<tr>
<td>Z5</td>
<td>Heated front passenger exterior rearview mirror</td>
</tr>
</tbody>
</table>

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vl = lilac
- ge = yellow
- or = orange
- rs = pink
Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Front passenger side mirror adjustment motor 2, Front passenger exterior rearview mirror folding motor, Front passenger entry lamp in exterior rearview mirror

- G791 Exterior rearview mirror horizontal adjustment position sensor
- G792 Exterior rearview mirror vertical adjustment position sensor
- J387 Front passenger door control module
- T2ae Double connector
- T3h 3-pin connector
- T16g 16-pin connector
- V25 Front passenger side mirror adjustment motor 2
- V122 Front passenger exterior rearview mirror folding motor
- V150 Front passenger mirror adjustment motor
- W53 Front passenger entry lamp in exterior rearview mirror

* Depending on equipment
*2 Only for vehicles with folding mirrors

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Front passenger door window regulator switch, Front passenger door contact switch, Front passenger central locking lock unit, Front passenger door central locking system motor, Front passenger window regulator motor

- **E107**: Front passenger door window regulator switch
- **F3**: Front passenger door contact switch
- **F221**: Front passenger central locking lock unit
- **J387**: Front passenger door control module
- **L76**: Push button illumination bulb
- **T4bb**: 4-pin connector
- **T8ab**: 8-pin connector
- **T20b**: 20-pin connector
- **T28a**: 28-pin connector, in the connector station, right A-pillar
- **T32b**: 32-pin connector
- **V57**: Front passenger door central locking system motor
- **V148**: Front passenger window regulator motor

**47** Ground connection in right front footwell

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

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https://www.automotive-manuals.net/
Sunroof adjustment regulator, Sunroof button, Alarm horn, Power sunroof control module, Sunroof motor, Front interior lamp

- **E139** Sunroof adjustment regulator
- **E325** Sunroof button
- **H12** Alarm horn
- **J245** Power sunroof control module
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **L65** Sunroof switch illumination bulb
- **T2t** Double connector
- **T6am** 6-pin connector
- **T6c** 6-pin connector
- **T32** 32-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **V1** Sunroof motor
- **W1** Front interior lamp

- **44** Ground connection on A-pillar, lower left
- **373** Ground connection 8 (in main wiring harness)
- **378** Ground connection 13 (in main wiring harness)
- **656** Ground connection on right headlamp
- **B322** Positive connection 8 (30a) (in main wiring harness)

* Only for vehicles with a sunroof
*2 through April 2009
*3 For vehicles with anti-theft alarm system

Colors:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **bl** = blue
- **gn** = green
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Automatic dimming interior rearview mirror switch, Central locking and anti-theft alarm system antenna, Fuel filler door unlock motor, Automatic dimming interior rearview mirror

- **E386** Automatic dimming interior rearview mirror switch
- **J519** Vehicle electrical control module system
- **R47** Central locking and anti-theft alarm system antenna
- **T6a** 6-pin connector
- **T6b** 6-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **V155** Fuel filler door unlock motor
- **W1** Front interior lamp
- **Y7** Automatic dimming interior rearview mirror

- **44** Ground connection on A-pillar, lower left
- **367** Ground connection 2 (in main wiring harness)
- **380** Ground connection 15 (in main wiring harness)
- **389** Ground connection 24 (in main wiring harness)
- **605** Ground connection on upper steering column
- **A87** Back-up lamp connection (in instrument panel wiring harness)
- **A217** Positive connection 8 (15a) (in instrument panel wiring harness)
  - * Only for vehicles with automatic dimming interior rearview mirror
  - *2 Only for vehicles with automatic dimming exterior rearview mirror

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

[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Engine hood contact switch

- F266 Engine hood contact switch
- J519 Vehicle electrical control module system
- T2bn Double connector, near the left headlamp
- T52a 52-pin connector

Ground connections:
- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 381 Ground connection 16 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 655 Ground connection on left headlamp

Color codes:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Comfort system (NAR) , (0A2)
from May 2009
Fuse 5 (on fuse panel A), Fuse panel C

A Battery  
B Starter  
SA5 Fuse 5 (on fuse panel A)  
SC Fuse panel C  
SC12 Fuse 12 (on fuse panel C)  
SC15 Fuse 15 (on fuse panel C)  
SC17 Fuse 17 (on fuse panel C)  
SC23 Fuse 23 (on fuse panel C)  
SC26 Fuse 26 (on fuse panel C)  

508 Terminal 30 threaded connection (on E-box)  

A1 Positive connection (30a) (in instrument panel wiring harness)  
A62 Power window connection (in instrument panel wiring harness)  
B169 Positive connection 1 (30) (in interior wiring harness)  
B318 Positive connection 4 (30a) (in main wiring harness)  
B503 Positive connection 7 (30a) (in interior wiring harness)  

S25 Positive connection (30a) (in central locking system wiring harness)  

* from November 2009  
*2 Through October 2009  
*3 Only for vehicles with rear power windows  
*4 For vehicles with anti-theft alarm system

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Driver door control module, Fuse panel B, Fuse panel C, Driver window regulator motor

- J329 Terminal 15 power supply relay
- J386 Driver door control module
- J682 Terminal 50 power supply relay
- SB Fuse panel B
- SC Fuse panel C
- SC4 Fuse 4 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- SC33 Fuse 33 (on fuse panel C)
- T20a 20-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- T40 40-pin connector
- V147 Driver window regulator motor

- 44 Ground connection on A-pillar, lower left
- 399 Ground connection 34 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
  * Only for vehicles with a sunroof
  *2 Only for vehicles with automatic dimming interior rearview mirror

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

https://www.automotive-manuals.net/
Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door control module

- **E40**: Left front window regulator switch
- **E53**: Left rear window regulator switch in driver door
- **E55**: Right rear window regulator switch in driver door
- **E81**: Right front power window switch in driver door
- **E318**: Child safety lock button
- **J386**: Driver door control module
- **K236**: Child safety lock-activated indicator lamp
- **L76**: Push button illumination bulb
- **T10ad**: 10-pin connector
- **T32a**: 32-pin connector

*2 Only for vehicles with front power windows
*3 Only for vehicles with rear power windows

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

https://www.automotive-manuals.net/
Left front window regulator switch, Right front power window switch in driver door, Driver interior locking button, Driver door control module, Central locking -SAFE- indicator lamp

- E40: Left front window regulator switch
- E81: Right front power window switch in driver door
- E308: Driver interior locking button
- J386: Driver door control module
- K133: Central locking -SAFE- indicator lamp
- K174: Driver interior locking indicator lamp
- L76: Push button illumination bulb
- T2u: Double connector, in the driver door
- T4am: 4-pin connector
- T4an: 4-pin connector
- T32a: 32-pin connector

* Only for vehicles with front power windows

267: Ground connection 2 (in driver door wiring harness)

R75: Connection 58d (in door control module wiring harness) 1
Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Mirror folding switch, Driver door contact switch, Driver central locking lock unit, Driver door control module, Driver door central locking system motor

- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E231 Exterior rearview mirror heating switch
- E263 Mirror folding switch
- F2 Driver door contact switch
- F220 Driver central locking lock unit
- J386 Driver door control module
- L78 Mirror adjustment switch illumination bulb
- T6al 6-pin connector
- T8aa 8-pin connector
- T20a 20-pin connector
- T32a 32-pin connector
- V56 Driver door central locking system motor

* Only for vehicles with folding mirrors
Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Driver door control module, Driver exterior rearview mirror turn signal bulb, Driver mirror adjustment motor 2, Driver exterior rearview mirror folding motor, Heated driver exterior rearview mirror

G791 Exterior rearview mirror horizontal adjustment position sensor
G792 Exterior rearview mirror vertical adjustment position sensor
J386 Driver door control module
L131 Driver exterior rearview mirror turn signal bulb
T2ab Double connector
T3ay 3-pin connector
T3g 3-pin connector
T16a 16-pin connector
T20a 20-pin connector
T28 28-pin connector, in the left A-pillar connector station
V17 Driver mirror adjustment motor 2
V121 Driver exterior rearview mirror folding motor
V149 Driver mirror adjustment motor
Z4 Heated driver exterior rearview mirror

205 Ground connection (in driver door wiring harness)
* Depending on equipment
*2 Only for vehicles with folding mirrors
*3 Only for vehicles with automatic dimming exterior rearview mirror

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

https://www.automotive-manuals.net/
Driver door control module, Front passenger exterior rearview mirror turn signal bulb, Driver entry lamp in exterior rearview mirror, Driver automatic dimming exterior rearview mirror, Heated front passenger exterior rearview mirror

- J386 Driver door control module
- J387 Front passenger door control module
- J533 Data bus on board diagnostic interface
- L132 Front passenger exterior rearview mirror turn signal bulb
- T2ad Double connector, on the mirror
- T3az 3-pin connector
- T16a 16-pin connector
- T16g 16-pin connector
- T20 20-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- T28a 28-pin connector, in the connector station, right A-pillar
- W52 Driver entry lamp in exterior rearview mirror
- Y20 Driver automatic dimming exterior rearview mirror
- Z5 Heated front passenger exterior rearview mirror

- 206 Ground connection (in front passenger door wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with automatic dimming exterior rearview mirror
*2 Only for vehicles with rear power windows

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

https://www.automotive-manuals.net/
Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Front passenger side mirror adjustment motor 2, Front passenger exterior rearview mirror folding motor, Front passenger entry lamp in exterior rearview mirror

- **G791** Exterior rearview mirror horizontal adjustment position sensor
- **G792** Exterior rearview mirror vertical adjustment position sensor
- **J387** Front passenger door control module
- **T10ad** 10-pin connector
- **T20a** 20-pin connector
- **T32a** 32-pin connector
- **V25** Front passenger side mirror adjustment motor 2
- **V122** Front passenger exterior rearview mirror folding motor
- **V150** Front passenger mirror adjustment motor
- **W53** Front passenger entry lamp in exterior rearview mirror

* Depending on equipment
*2 Only for vehicles with folding mirrors

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

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![Wiring Diagram](https://www.automotive-manuals.net/)
Front passenger door window regulator switch, Front passenger door contact switch, Front passenger central locking lock unit, Front passenger door central locking system motor, Front passenger window regulator motor

- E107: Front passenger door window regulator switch
- F3: Front passenger door contact switch
- F221: Front passenger central locking lock unit
- J387: Front passenger door control module
- L76: Push button illumination bulb
- T10ad: 10-pin connector
- T20a: 20-pin connector
- T28a: 28-pin connector, in the connector station, right A-pillar
- T32a: 32-pin connector
- V57: Front passenger door central locking system motor
- V148: Front passenger window regulator motor

Ground connection in right front footwell

Ground connection 15 (in interior wiring harness)

* Only for vehicles with rear power windows

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E107</td>
<td>Front passenger door window regulator switch</td>
</tr>
<tr>
<td>F3</td>
<td>Front passenger door contact switch</td>
</tr>
<tr>
<td>F221</td>
<td>Front passenger central locking lock unit</td>
</tr>
<tr>
<td>J387</td>
<td>Front passenger door control module</td>
</tr>
<tr>
<td>L76</td>
<td>Push button illumination bulb</td>
</tr>
<tr>
<td>T10ad</td>
<td>10-pin connector</td>
</tr>
<tr>
<td>T20a</td>
<td>20-pin connector</td>
</tr>
<tr>
<td>T28a</td>
<td>28-pin connector, in the connector station, right A-pillar</td>
</tr>
<tr>
<td>T32a</td>
<td>32-pin connector</td>
</tr>
<tr>
<td>V57</td>
<td>Front passenger door central locking system motor</td>
</tr>
<tr>
<td>V148</td>
<td>Front passenger window regulator motor</td>
</tr>
</tbody>
</table>

- 47: Ground connection in right front footwell
- 459: Ground connection 15 (in interior wiring harness)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Left rear power window switch in left rear door, Left rear door contact switch, Left rear central locking lock unit, Left rear door control module, Left rear window regulator motor, Left rear central locking -lock- motor

- **E52** Left rear power window switch in left rear door
- **F10** Left rear door contact switch
- **F222** Left rear central locking lock unit
- **J388** Left rear door control module
- **L76** Push button illumination bulb
- **T10ad** 10-pin connector
- **T20a** 20-pin connector
- **T28b** 28-pin connector, behind the lower left B-pillar trim
- **T32a** 32-pin connector
- **V26** Left rear window regulator motor
- **V214** Left rear central locking -lock- motor

* Only for vehicles with rear power windows
*2 Only for vehicles with front power windows

---

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

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**References:**
- [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Right rear window switch in right rear door, Right rear door contact switch, Right rear central locking lock unit, Right rear door control module, Right rear window regulator motor, Right rear central locking -lock- motor

E54  Right rear window switch in right rear door
F11  Right rear door contact switch
F223 Right rear central locking lock unit
J389 Right rear door control module
L76  Push button illumination bulb
T10ad 10-pin connector
T20a  20-pin connector
T28c  28-pin connector, behind the lower right B-pillar trim
T32a  32-pin connector
V27  Right rear window regulator motor
V215 Right rear central locking -lock- motor
* Only for vehicles with rear power windows
*2 Only for vehicles with front power windows
Left rear door contact switch, Right rear door contact switch, Left rear central locking lock unit, Right rear central locking lock unit, Left rear central locking -lock- motor, Right rear central locking -lock- motor

- **F10** Left rear door contact switch
- **F11** Right rear door contact switch
- **F222** Left rear central locking lock unit
- **F223** Right rear central locking lock unit
- **J519** Vehicle electrical control module system
- **T10ad** 10-pin connector
- **T20a** 20-pin connector
- **T28b** 28-pin connector, behind the lower left B-pillar trim
- **T28c** 28-pin connector, behind the lower right B-pillar trim
- **T32a** 32-pin connector
- **V214** Left rear central locking -lock- motor
- **V215** Right rear central locking -lock- motor

* Only for vehicles with front power windows

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Color codes:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Sunroof adjustment regulator, Sunroof button, Alarm horn, Power sunroof control module, Sunroof motor

- E139 Sunroof adjustment regulator
- E325 Sunroof button
- H12 Alarm horn
- J245 Power sunroof control module
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- L65 Sunroof switch illumination bulb
- T10a 10-pin connector
- T20a 20-pin connector
- T32a 32-pin connector
- V1 Sunroof motor
- W1 Front interior lamp
- 44 Ground connection on A-pillar, lower left
- 373 Ground connection 8 (in main wiring harness)
- 378 Ground connection 13 (in main wiring harness)
- 656 Ground connection on right headlamp
- B322 Positive connection 8 (30a) (in main wiring harness)

* Only for vehicles with a sunroof
*2 through April 2009
*3 For vehicles with anti-theft alarm system
Automatic dimming interior rearview mirror switch, Engine hood contact switch, Central locking and anti-theft alarm system antenna, Automatic dimming interior rearview mirror

- **E386** Automatic dimming interior rearview mirror switch
- **F266** Engine hood contact switch
- **J519** Vehicle electrical control module system
- **R47** Central locking and anti-theft alarm system antenna
- **T2bn** Double connector, near the left headlamp
- **T10ad** 10-pin connector
- **T20a** 20-pin connector
- **T32a** 32-pin connector
- **W1** Front interior lamp
- **Y7** Automatic dimming interior rearview mirror

- **44** Ground connection on A-pillar, lower left
- **47** Ground connection in right front footwell
- **366** Ground connection 1 (in main wiring harness)
- **367** Ground connection 2 (in main wiring harness)
- **376** Ground connection 11 (in main wiring harness)
- **380** Ground connection 15 (in main wiring harness)
- **381** Ground connection 16 (in main wiring harness)
- **387** Ground connection 22 (in main wiring harness)
- **389** Ground connection 24 (in main wiring harness)
- **605** Ground connection on upper steering column
- **655** Ground connection on left headlamp
- **A87** Back-up lamp connection (in instrument panel wiring harness)

* Only for vehicles with automatic dimming interior rearview mirror
*2 Only for vehicles with automatic dimming exterior rearview mirror

---

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

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**Source:** [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Airbag systems (USA), (4UM), (4UT)
from May 2009
Airbag control module, Terminal 15 power supply relay, Front passenger airbag -disabled- indicator lamp, Fuse 3 (on fuse panel C), Fuse 4 (on fuse panel C), Fuse 7 (on fuse panel B)

A Battery
B Starter
J234 Airbag control module, behind the center console
J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
K145 Front passenger airbag -disabled- indicator lamp
SC3 Fuse 3 (on fuse panel C)
SC4 Fuse 4 (on fuse panel C)
SB7 Fuse 7 (on fuse panel B)
T2be Double connector
T40 40-pin connector
T75 75-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
605 Ground connection on upper steering column

(A200 Positive connection 5 (15a) (in instrument panel wiring harness)
(A217 Positive connection 8 (15a) (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)

* Through October 2009
*2 from November 2009
*3 Only for vehicles with a passive occupant detection system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
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gr = grey
li = lilac
vi = lilac
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rs = pink

https://www.automotive-manuals.net/
Driver front airbag crash sensor, Passenger side front airbag crash sensor, Airbag control module, Steering column electronics control module, Driver airbag igniter, Front passenger airbag igniter 1, Front passenger airbag igniter 2

- F138 Airbag spiral spring/return spring with slip ring
- G283 Driver front airbag crash sensor
- G284 Passenger side front airbag crash sensor
- J234 Airbag control module, behind the center console
- J527 Steering column electronics control module
- N95 Driver airbag igniter
- N131 Front passenger airbag igniter 1
- N132 Front passenger airbag igniter 2
- T4k 4-pin connector
- T5i 5-pin connector, behind the front passenger airbag
- T10x 10-pin connector
- T12k 12-pin connector
- T75 75-pin connector

* Only for vehicles with a passive occupant detection system
Driver thorax airbag crash sensor, Front passenger thorax airbag crash sensor, Driver side rear thorax airbag crash sensor, Airbag control module, Driver thorax airbag igniter, Front passenger thorax airbag igniter, Driver head curtain airbag igniter

| G179 | Driver thorax airbag crash sensor |
| G180 | Front passenger thorax airbag crash sensor |
| G256 | Driver side rear thorax airbag crash sensor |
| J234 | Airbag control module, behind the center console |
| N199 | Driver thorax airbag igniter |
| N200 | Front passenger thorax airbag igniter |
| N251 | Driver head curtain airbag igniter |
| T2bf | Double connector |
| T3k | 3-pin connector, in the driver seat backrest |
| T3l | 3-pin connector, under the front passenger seat |
| T3m | 3-pin connector, behind the left C-pillar trim panel |
| T28 | 28-pin connector, behind the lower left A-pillar trim |
| T28a | 28-pin connector, behind the lower right A-pillar trim |
| T75 | 75-pin connector |

109 Ground connection (in airbag wiring harness)
* Only for vehicles with 4 doors
*2 Only for vehicles with 2-door equipment

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

https://www.automotive-manuals.net/
### Passenger side rear thorax airbag crash sensor, Driver belt force limiter, Airbag control module, Driver seat belt tensioner igniter 1, Front passenger seat belt tensioner igniter 1, Driver side rear seat belt tensioner igniter, Front passenger head curtain airbag igniter

- **G257**: Passenger side rear thorax airbag crash sensor
- **G551**: Driver belt force limiter
- **J234**: Airbag control module, behind the center console
- **N153**: Driver seat belt tensioner igniter 1
- **N154**: Front passenger seat belt tensioner igniter 1
- **N196**: Driver side rear seat belt tensioner igniter
- **N252**: Front passenger head curtain airbag igniter
- **T2bg**: Double connector
- **T3n**: 3-pin connector, behind the right C-pillar trim panel
- **T3r**: 3-pin connector
- **T5v**: 5-pin connector
- **T75**: 75-pin connector

#### Ground connection (in airbag wiring harness)
- * Only for vehicles with 4 doors
- *2 Only for vehicles with seat belt tensioners
- *3 Only for vehicles with rear thorax airbags
- *4 Only for vehicles with rear seat belt tensioners
- *5 Only for vehicles with 2-door equipment

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### Wiring Diagram

**Golf Wiring Diagram**

- **No. 55 / 5**

[Diagram showing wiring connections and labels]

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### Legend

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

[Link to webpage: https://www.automotive-manuals.net/]

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[Page number reference: 5/5]
Driver seat belt switch, Front passenger seat belt switch,
Passenger occupant detection system seat belt force
sensor, Driver seat position sensor, Airbag control module,
Passenger side rear seat belt tensioner igniter, Driver side
rear thorax airbag igniter, Passenger side rear thorax airbag
igniter

E24  Driver seat belt switch
E25  Front passenger seat belt switch
G453  Passenger occupant detection system seat belt force
sensor
G553  Driver seat position sensor
J234  Airbag control module, behind the center console
J706  Passenger occupant detection system control module, under the
front passenger seat
N197  Passenger side rear seat belt tensioner igniter
N201  Driver side rear thorax airbag igniter
N202  Passenger side rear thorax airbag igniter
T2q  Double connector, under the driver seat
T2y  Double connector, under the front passenger seat
T3br  3-pin connector, under the driver seat
T3s  3-pin connector
T3t  3-pin connector
T3u  3-pin connector
T18f  18-pin connector
T75  75-pin connector

* Only for vehicles with a passive occupant detection system
*2 Only for vehicles with rear seat belt tensioners
*3 Only for vehicles with rear thorax airbags
*4 from October 2009

Ground connection (in airbag wiring harness)

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

https://www.automotive-manuals.net/
Passenger occupant detection system pressure sensor, Warning buzzer and tone, Airbag control module, Instrument cluster control module, Data bus on board diagnostic interface, Seat belt indicator lamp, Airbag indicator lamp

G452 Passenger occupant detection system pressure sensor
H3 Warning buzzer and tone
J234 Airbag control module, behind the center console
J285 Instrument cluster control module
J519 Vehicle electrical control module system
J533 Data bus on board diagnostic interface, in the left footwell, near the center console
J706 Passenger occupant detection system control module, under the front passenger seat
K19 Seat belt indicator lamp
K75 Airbag indicator lamp
T10e 10-pin connector, under the front passenger seat
T16 16-pin connector
T18f 18-pin connector
T20 20-pin connector
T32 32-pin connector
T75 75-pin connector
U31 Diagnostic connection

109 Ground connection (in airbag wiring harness)
(B383) Powertrain CAN bus high connection 1 (in main wiring harness)
(B390) Powertrain CAN bus low connection 1 (in main wiring harness)
(B397) Comfort system CAN bus high connection 1 (in main wiring harness)
(B398) Comfort system CAN bus high connection 2 (in main wiring harness)
(B406) Comfort system CAN bus low connection 1 (in main wiring harness)
(B407) Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with a passive occupant detection system

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse panel B, Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 13 (on fuse panel C)

- A Battery
- B Starter
- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SC2 Fuse 2 (on fuse panel C)
- SA5 Fuse 5 (on fuse panel A)
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SC13 Fuse 13 (on fuse panel C)
- SB49 Fuse 49 (on fuse panel B)
- T40 40-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A167 Positive connection 3 (30a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)

* Through October 2009
*2 from November 2009
*3 E-Box high
*4 E-Box low
*5 Only for vehicles with Start/Stop system
*6 Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
Compass magnetic field sensor, Voltage stabilizer, Data bus on board diagnostic interface, Fuse 48 (on fuse panel C)

- G197 Compass magnetic field sensor
- J519 Vehicle electrical control module system
- J532 Voltage stabilizer
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J682 Terminal 50 power supply relay
- J907 Starter relay 2
- SC48 Fuse 48 (on fuse panel C)
- T8ao 8-pin connector
- T10ah 10-pin connector
- T20 20-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
  - 45 Ground connection behind instrument panel, center
  - 47 Ground connection in right front footwell
  - 366 Ground connection 1 (in main wiring harness)
  - 369 Ground connection 4 (in main wiring harness)
  - 431 Ground connection 2 (in roof wiring harness)
  - A178 Infotainment CAN bus high connection (in instrument panel wiring harness)
  - A179 Infotainment CAN bus low connection (in instrument panel wiring harness)
  - A225 Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
  - A226 Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
  - B320 Positive connection 6 (30a) (in main wiring harness)
  - B321 Positive connection 7 (30a) (in main wiring harness)
  - B660 Diagnostic terminal 50 connection (in main wiring harness)

* Only for vehicles with Start/Stop system
*2 Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
2.0L gasoline engine, CBFA
from June 2009
Battery, Starter, Generator, Vehicle electrical control module system, Terminal 50 power supply relay, Fuse 1 (on fuse panel A), Fuse 5 (on fuse panel A)

A Battery
B Starter
C Generator
C1 Voltage regulator
J519 Vehicle electrical control module system
J682 Terminal 50 power supply relay
SA1 Fuse 1 (on fuse panel A)
SA5 Fuse 5 (on fuse panel A)
T2 Double connector
T2c Double connector, near the starter
T52b 52-pin connector
T52c 52-pin connector

1 Ground strap, battery to body

14 Ground connection on transmission

508 Terminal 30 threaded connection (on E-box)

652 Transmission/engine ground connection

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

(B169) Positive connection 1 (30) (in interior wiring harness)

(B177) Connection 61 (in interior wiring harness)

(B465) Connection 1 (in main wiring harness)

(B660) Diagnostic terminal 50 connection (in main wiring harness)

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

https://www.automotive-manuals.net/
Fuel level sensor, Transfer fuel pump, Terminal 15 power supply relay, Vehicle electrical control module system, Secondary air injection pump motor

G Fuel level sensor
G6 Transfer fuel pump
J329 Terminal 15 power supply relay
J519 Vehicle electrical control module system
SC1 Fuse 1 (on fuse panel C)
SC2 Fuse 2 (on fuse panel C)
SB27 Fuse 27 (on fuse panel B)
SC27 Fuse 27 (on fuse panel C)
T5b 5-pin connector
T40 40-pin connector
T52b 52-pin connector
T52c 52-pin connector
V101 Secondary air injection pump motor

- Ground connection 18 (in main wiring harness)
- Terminal 30 threaded connection (on E-box)
- Ground connection on left headlamp
- Ground connection 2 in right rear side panel
- Positive connection 3 (15a) (in instrument panel wiring harness)
- Positive connection 1 (15) (in interior wiring harness)
- Positive connection 2 (15a) (in main wiring harness)

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

https://www.automotive-manuals.net/
Secondary air injection pump relay, Fuel pump control module

- J299 Secondary air injection pump relay
- J538 Fuel pump control module
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)
- SB15 Fuse 15 (on fuse panel B)
- SB20 Fuse 20 (on fuse panel B)
- SB21 Fuse 21 (on fuse panel B)
- SB23 Fuse 23 (on fuse panel B)
- SB24 Fuse 24 (on fuse panel B)
- T10n 10-pin connector
- T14a 14-pin connector, near the battery
- T40 40-pin connector

- 383 Ground connection 18 (in main wiring harness)
- B485 Connection 21 (in main wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)
- D183 Connection 4 (87a) (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage

J623  Engine control module, in the center plenum chamber
N70   Ignition coil 1 with power output stage
N127  Ignition coil 2 with power output stage
N291  Ignition coil 3 with power output stage
N292  Ignition coil 4 with power output stage
P     Spark plug connectors
Q     Spark plugs
T14a  14-pin connector, near the battery
T60   60-pin connector
T94   94-pin connector

15    Ground connection on cylinder head
85    Ground connection 1 (in engine compartment wiring harness)
281   Ground connection 1 (in engine pre-wiring harness)
642   Electronic fan control ground connection
D206  Connection 87a (in engine pre-wiring harness) 4

ws = white
sw = black
ro = red
rt = red
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gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
gel = yellow
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rs = pink

https://www.automotive-manuals.net/
Camshaft position sensor, Knock sensor 1, Fuel pressure sensor, Engine control module, Fuel pressure regulator valve

G40 Camshaft position sensor
G61 Knock sensor 1
G247 Fuel pressure sensor
J623 Engine control module, in the center plenum chamber
J757 Engine component power supply relay
N276 Fuel pressure regulator valve
T3w 3-pin connector, on the engine, front
T4x 4-pin connector
T6aq 6-pin connector, on the engine, front
T14a 14-pin connector, near the battery
T60 60-pin connector
T94 94-pin connector

- D101 Connection 1 (in engine compartment wiring harness)
- D103 Connection 3 (in engine compartment wiring harness)
- D107 Connection 5 (in engine compartment wiring harness)

* Coolant fan connection

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

https://www.automotive-manuals.net/
Engine speed sensor, Charge air pressure sensor, Intake air temperature sensor, Intake manifold runner position sensor, Secondary air injection sensor 1, Engine control module

G28  Engine speed sensor
G31  Charge air pressure sensor
G42  Intake air temperature sensor
G336 Intake manifold runner position sensor
G609 Secondary air injection sensor 1
J623 Engine control module, in the center plenum chamber
J743 DSG transmission Mechatronic
T4ak 4-pin connector
T6aq 6-pin connector, on the engine, front
T14a 14-pin connector, near the battery
T20e 20-pin connector
T60 60-pin connector
T94 94-pin connector

D101 Connection 1 (in engine compartment wiring harness)
D108 Connection 6 (in engine compartment wiring harness)

* Only for vehicles with DSG transmission

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

https://www.automotive-manuals.net/
**Mass airflow sensor, Engine coolant temperature sensor on radiator outlet, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector**

- **G70** Mass airflow sensor
- **G83** Engine coolant temperature sensor on radiator outlet
- **J623** Engine control module, in the center plenum chamber
- **N30** Cylinder 1 fuel injector
- **N31** Cylinder 2 fuel injector
- **N32** Cylinder 3 fuel injector
- **N33** Cylinder 4 fuel injector
- **T5d** 5-pin connector
- **T8l** 8-pin connector, on the engine, front
- **T60** 60-pin connector
- **T94** 94-pin connector

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

---

![Wiring Diagram](https://www.automotive-manuals.net/)
Engine control module, Wastegate bypass regulator valve, EVAP canister purge regulator valve 1, Secondary air injection solenoid valve, Camshaft adjustment valve 1, Turbocharger recirculation valve, Intake manifold runner control valve

J623  Engine control module, in the center plenum chamber
N75   Wastegate bypass regulator valve
N80   EVAP canister purge regulator valve 1
N112  Secondary air injection solenoid valve
N205  Camshaft adjustment valve 1
N249  Turbocharger recirculation valve
N316  Intake manifold runner control valve
T4x   4-pin connector
T14a  14-pin connector, near the battery
T60   60-pin connector
T94   94-pin connector

(D180) Connection 87a (in engine compartment wiring harness)
(D189) Connection 87a (in engine pre-wiring harness)
* Coolant fan connection

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

https://www.automotive-manuals.net/
Heated oxygen sensor, Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module

- G39 Heated oxygen sensor
- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- J623 Engine control module, in the center plenum chamber
- T6h 6-pin connector
- T6w 6-pin connector, in the engine compartment, rear
- T94 94-pin connector
- Z19 Oxygen sensor heater

Connection 87a (in Motronic multiform fuel injection wiring harness)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Heated oxygen sensor 2, Oxygen sensor after catalytic converter, Radiator identification sensor, Engine control module, Leak detection pump

G108 Heated oxygen sensor 2
G130 Oxygen sensor after catalytic converter
G611 Radiator identification sensor
J623 Engine control module, in the center plenum chamber
T4bi 4-pin connector, near the oxygen sensor
T4v 4-pin connector, near the oxygen sensor
T94 94-pin connector
V144 Leak detection pump
Z28 Oxygen sensor 2 heater
Z29 Heater for oxygen sensor 1 after catalytic converter

Connection 87a (in Motronic multiform fuel injection wiring harness)

Connection 87a (in engine wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Brake lamp switch, Clutch position sensor, Engine control module

- F  Brake lamp switch
- G476  Clutch position sensor
- J623  Engine control module, in the center plenum chamber
- T4bc  4-pin connector
- T5m  5-pin connector
- T94  94-pin connector
- 44  Ground connection on A-pillar, lower left
- 367  Ground connection 2 (in main wiring harness)
- 389  Ground connection 24 (in main wiring harness)
- 605  Ground connection on upper steering column
- B131  Connection 54 (in interior wiring harness)

* Only for vehicles with a manual transmission

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ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Data bus on board diagnostic interface, Malfunction indicator lamp

- J104: ABS control module
- J285: Instrument cluster control module
- J533: Data bus on board diagnostic interface, in the left footwell, near the center console
- K83: Malfunction indicator lamp
- T16: 16-pin connector
- T20: 20-pin connector
- T32: 32-pin connector
- T47c: 47-pin connector
- U31: Diagnostic connection

- B383: Powertrain CAN bus high connection 1 (in main wiring harness)
- B390: Powertrain CAN bus low connection 1 (in main wiring harness)
- B397: Comfort system CAN bus high connection 1 (in main wiring harness)
- B398: Comfort system CAN bus high connection 2 (in main wiring harness)
- B406: Comfort system CAN bus low connection 1 (in main wiring harness)
- B407: Comfort system CAN bus low connection 2 (in main wiring harness)

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

https://www.automotive-manuals.net/
Oil pressure switch, Reduced oil pressure switch, Fuel gauge, Engine coolant temperature gauge, Engine coolant level sensor, Multifunction indicator

- **F1**: Oil pressure switch
- **F378**: Reduced oil pressure switch
- **G1**: Fuel gauge
- **G3**: Engine coolant temperature gauge
- **G32**: Engine coolant level sensor
- **H3**: Warning buzzer and tone
- **J119**: Multifunction indicator
- **J285**: Instrument cluster control module
- **K3**: Oil pressure indicator lamp
- **K31**: Cruise control indicator lamp
- **K38**: Oil level indicator lamp
- **K105**: Low fuel level indicator lamp
- **K132**: Electronic power control malfunction indicator lamp
- **T14a**: 14-pin connector, near the battery
- **T32**: 32-pin connector
- **410**: Sensor ground connection 1 (in main wiring harness)

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

Wiring Diagram No. 57 / 16

https://www.automotive-manuals.net/
2.0L gasoline engine, CCTA
from June 2009
Battery, Starter, Generator, Terminal 50 power supply relay, Fuse 1 (on fuse panel A)

A  Battery
B  Starter
C  Generator
C1 Voltage regulator
J682 Terminal 50 power supply relay
SA1 Fuse 1 (on fuse panel A)
T2 Double connector
T2c Double connector, near the starter
T4t 4-pin connector, near the starter

1  Ground strap, battery to body

14 Ground connection on transmission

508 Terminal 30 threaded connection (on E-box)  

652 Transmission/engine ground connection

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

B177 Connection 61 (in interior wiring harness)

B660 Diagnostic terminal 50 connection (in main wiring harness)

D110 Connection 8 (in engine compartment wiring harness)

* Only for vehicles without an A/C system

*2 Only for vehicles with A/C system

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse 5 (on fuse panel A), Fuse panel B

J329  Terminal 15 power supply relay
SC1   Fuse 1 (on fuse panel C)
SC2   Fuse 2 (on fuse panel C)
SA5   Fuse 5 (on fuse panel A)
SB    Fuse panel B
SB6   Fuse 6 (on fuse panel B)
SB7   Fuse 7 (on fuse panel B)
SC27  Fuse 27 (on fuse panel C)
T40   40-pin connector

508  Terminal 30 threaded connection (on E-box)
A192  Positive connection 3 (15a) (in instrument panel wiring harness)
B169  Positive connection 1 (30) (in interior wiring harness)
B278  Positive connection 2 (15a) (in main wiring harness)
B504  Positive connection 8 (30a) (in interior wiring harness)

* Through November 2011

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

https://www.automotive-manuals.net/
Fuel level sensor, Transfer fuel pump, Fuel pump control module, Engine component power supply relay, Fuse panel B

- G Fuel level sensor
- G6 Transfer fuel pump
- J538 Fuel pump control module
- J757 Engine component power supply relay
- SB Fuse panel B
- SB20 Fuse 20 (on fuse panel B)
- SB24 Fuse 24 (on fuse panel B)
- SB27 Fuse 27 (on fuse panel B)
- T5b 5-pin connector
- T10n 10-pin connector
- T40 40-pin connector

- B485 Connection 21 (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 = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

**References:**
- https://www.automotive-manuals.net/
Motronic engine control module power supply relay, Fuse panel B

J271  Motronic engine control module power supply relay
SB  Fuse panel B
SB10  Fuse 10 (on fuse panel B)
SB13  Fuse 13 (on fuse panel B)
SB14  Fuse 14 (on fuse panel B)
SB15  Fuse 15 (on fuse panel B)
SB21  Fuse 21 (on fuse panel B)
SB22  Fuse 22 (on fuse panel B)
SB23  Fuse 23 (on fuse panel B)
T14a  14-pin connector, near the battery
T40  40-pin connector

383  Ground connection 18 (in main wiring harness)
682  Ground connection 2 in right rear side panel
D78  Positive connection 1 (30a) (in engine compartment wiring harness)
*  Only for vehicles with automatic transmission
*2  from November 2010
*3  Only for vehicles with a manual transmission

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Steering column electronics control module, Engine control module

J527  Steering column electronics control module
J623  Engine control module, in the center plenum chamber
T16r  16-pin connector
T94   94-pin connector

131   Ground connection 2 (in engine compartment wiring harness)
607   Ground connection in plenum chamber, left
B441  Cruise control connection (in main wiring harness)
B465  Connection 1 (in main wiring harness)
D182  Connection 3 (87a) (in engine compartment wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rp = pink
Mass airflow sensor, Engine coolant temperature sensor on radiator outlet, Coolant circulation pump relay, Throttle valve control module, Engine control module, After-run coolant pump

- G70  Mass airflow sensor
- G83  Engine coolant temperature sensor on radiator outlet
- G186 EPC throttle drive
- G187 EPC throttle drive angle sensor 1
- G188 EPC throttle drive angle sensor 2
- J151 Coolant circulation pump relay
- J338 Throttle valve control module
- J623 Engine control module, in the center plenum chamber
- T4by 4-pin connector, in the engine compartment, left
- T5d  5-pin connector
- T6x 6-pin connector
- T60 60-pin connector
- T94 94-pin connector
- V51 After-run coolant pump

D183 Connection 4 (87a) (in engine compartment wiring harness)
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plugs

- J623 Engine control module, in the center plenum chamber
- N70 Ignition coil 1 with power output stage
- N127 Ignition coil 2 with power output stage
- N291 Ignition coil 3 with power output stage
- N292 Ignition coil 4 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- 15 Ground connection on cylinder head
- 85 Ground connection 1 (in engine compartment wiring harness)
- 281 Ground connection 1 (in engine pre-wiring harness)
- 642 Electronic fan control ground connection
- D206 Connection 87a (in engine pre-wiring harness) 4

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

https://www.automotive-manuals.net/
Engine speed sensor, Charge air pressure sensor, Camshaft position sensor, Knock sensor 1, Fuel pressure sensor, Engine control module

- **G28** Engine speed sensor
- **G31** Charge air pressure sensor
- **G40** Camshaft position sensor
- **G61** Knock sensor 1
- **G247** Fuel pressure sensor
- **J623** Engine control module, in the center plenum chamber
- **T3w** 3-pin connector, on the engine, front
- **T4ak** 4-pin connector
- **T6aq** 6-pin connector, on the engine, front
- **T14a** 14-pin connector, near the battery
- **T60** 60-pin connector

**Connections**:
- **D101** Connection 1 (in engine compartment wiring harness)
- **D103** Connection 3 (in engine compartment wiring harness)
- **D107** Connection 5 (in engine compartment wiring harness)
- **D123** Connection 21 (in engine compartment wiring harness)

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

[Diagram Image]
Intake air temperature sensor, Engine coolant temperature sensor, Intake manifold runner position sensor, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Fuel pressure regulator valve

- **G42** Intake air temperature sensor
- **G62** Engine coolant temperature sensor
- **G336** Intake manifold runner position sensor
- **J623** Engine control module, in the center plenum chamber
- **N30** Cylinder 1 fuel injector
- **N31** Cylinder 2 fuel injector
- **N276** Fuel pressure regulator valve
- **T4x** 4-pin connector
- **T6aq** 6-pin connector, on the engine, front
- **TBI** 8-pin connector, on the engine, front
- **T14a** 14-pin connector, near the battery
- **T60** 60-pin connector
- **T94** 94-pin connector

**220** Sensor ground connection (in engine wiring harness)

**D123** Connection 21 (in engine compartment wiring harness)

* Coolant fan connection

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ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bn = green  
bl = blue  
gr = grey  
li = lilac  
vi = lilac  
ge = yellow  
or = orange  
rs = pink
Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module, Cylinder 3 fuel injector, Cylinder 4 fuel injector, EVAP canister purge regulator valve 1, Turbocharger recirculation valve

- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- J623 Engine control module, in the center plenum chamber
- N32 Cylinder 3 fuel injector
- N33 Cylinder 4 fuel injector
- N80 EVAP canister purge regulator valve 1
- N249 Turbocharger recirculation valve
- T6h 6-pin connector
- T8i 8-pin connector, on the engine, front
- T60 60-pin connector
- T94 94-pin connector

Connection 87a (in engine pre-wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Oxygen sensor after catalytic converter, Engine control module, Wastegate bypass regulator valve, Camshaft adjustment valve 1, Intake manifold runner control valve, Oil pressure regulation valve

- G130 Oxygen sensor after catalytic converter
- J623 Engine control module, in the center plenum chamber
- N75 Wastegate bypass regulator valve
- N205 Camshaft adjustment valve 1
- N316 Intake manifold runner control valve
- N428 Oil pressure regulation valve
- T4v 4-pin connector, near the oxygen sensor
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector
- Z29 Heater for oxygen sensor 1 after catalytic converter

**Legend:**
- D189 Connection 87a (in engine pre-wiring harness)
- E30 Connection 87a (in engine wiring harness)

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

https://www.automotive-manuals.net/
Wiring Diagram

Brake lamp switch, Heated oxygen sensor, Engine control module, Leak detection pump

- F Brake lamp switch
- G39 Heated oxygen sensor
- J623 Engine control module, in the center plenum chamber
- T4bc 4-pin connector
- T6w 6-pin connector, in the engine compartment, rear
- T94 94-pin connector
- V144 Leak detection pump
- Z19 Oxygen sensor heater

- 389 Ground connection 24 (in main wiring harness)
- A216 Positive connection 2 (87a) (in instrument panel wiring harness)
- B131 Connection 54 (in interior wiring harness)
- E30 Connection 87a (in engine wiring harness)

* from November 2011
*2 Only for vehicles with automatic transmission
*3 from November 2010
*4 Only for vehicles with a manual transmission
*5 Through November 2011

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

Brake lamp switch, Heated oxygen sensor, Engine control module, Leak detection pump

F  Brake lamp switch
G39  Heated oxygen sensor
J623  Engine control module, in the center plenum chamber
T4bc  4-pin connector
T6w  6-pin connector, in the engine compartment, rear
T94  94-pin connector
V144  Leak detection pump
Z19  Oxygen sensor heater

- 389  Ground connection 24 (in main wiring harness)
- A216  Positive connection 2 (87a) (in instrument panel wiring harness)
- B131  Connection 54 (in interior wiring harness)
- E30  Connection 87a (in engine wiring harness)

* from November 2011
*2 Only for vehicles with automatic transmission
*3 from November 2010
*4 Only for vehicles with a manual transmission
*5 Through November 2011

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

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Golf Wiring Diagram

No. 58 / 13

https://www.automotive-manuals.net/
Clutch position sensor, Vehicle electrical control module system, Engine control module

- **G476** Clutch position sensor
- **J519** Vehicle electrical control module system
- **J623** Engine control module, in the center plenum chamber
- **T5m** 5-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **T94** 94-pin connector

- 44 Ground connection on A-pillar, lower left
- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- **A216** Positive connection 2 (87a) (in instrument panel wiring harness)
  * Only for vehicles with a manual transmission
  *2 Only for left-hand drive vehicles
  *3 Only for right-hand drive vehicles

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

[Diagram showing Wiring Diagram](https://www.automotive-manuals.net/)
Vehicle electrical control module system, Data bus on board diagnostic interface

- J104 ABS control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J743 DSG transmission Mechatronic

- T16 16-pin connector
- T20 20-pin connector
- T20e 20-pin connector
- T26a 26-pin connector
- T47c 47-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

* Only for vehicles with a manual transmission
*2 Only for vehicles with DSG transmission
*3 Only for right-hand drive vehicles
*4 Only for left-hand drive vehicles

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

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

[Diagram of vehicle electrical control module system, Data bus on board diagnostic interface]

https://www.automotive-manuals.net/
Oil pressure switch, Reduced oil pressure switch, Fuel gauge, Engine coolant temperature gauge, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Malfunction indicator lamp, Electronic power control malfunction indicator lamp

- F1 Oil pressure switch
- F378 Reduced oil pressure switch
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G32 Engine coolant level sensor
- H3 Warning buzzer and tone
- J119 Multifunction indicator
- J285 Instrument cluster control module
- K Instrument cluster
- K3 Oil pressure indicator lamp
- K31 Cruise control indicator lamp
- K38 Oil level indicator lamp
- K83 Malfunction indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

Sensor ground connection 1 (in main wiring harness)
Headlamps Bixenon HID with range control and cornering lamp , (8Q5),(8Q6) from May 2009
Terminal 15 power supply relay, Vehicle electrical control module system, Fuse panel B, Fuse panel C

A Battery
B Starter
J329 Terminal 15 power supply relay
J519 Vehicle electrical control module system
J682 Terminal 50 power supply relay
J906 Starter relay 1
SB Fuse panel B
SC Fuse panel C
SC1 Fuse 1 (on fuse panel C)
SC5 Fuse 5 (on fuse panel C)
SC6 Fuse 6 (on fuse panel C)
SB7 Fuse 7 (on fuse panel B)
SB16 Fuse 16 (on fuse panel B)
SB26 Fuse 26 (on fuse panel B)
T40 40-pin connector
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
605 Ground connection on upper steering column
A192 Positive connection 3 (15a) (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)

* from November 2009
*2 Through October 2009

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

https://www.automotive-manuals.net/
Left HID lamp ballast, Vehicle electrical control module system, Left HID headlamp bulb, Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp bulb, Left position lamp bulb, Left front turn signal bulb, Left low beam headlamp reflector motor

J426 Left HID lamp ballast, on the left headlamp
J519 Vehicle electrical control module system
L13 Left HID headlamp bulb
L22 Left front fog lamp bulb
L148 Left cornering lamp bulb
L174 Left daytime running lamp bulb
M1 Left position lamp bulb
M5 Left front turn signal bulb
T2bc Double connector
T2ca Double connector
T4as 4-pin connector
T4az 4-pin connector
T14e 14-pin connector, on the left headlamp
T16j 16-pin connector, under the instrument panel, left
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector
V294 Left low beam headlamp reflector motor

119 Ground connection 1 (in headlamp wiring harness)
376 Ground connection 11 (in main wiring harness)
392 Ground connection 27 (in main wiring harness)
655 Ground connection on left headlamp
A6 Left turn signal positive connection (in instrument panel wiring harness)
B144 Positive connection (58L) (in interior wiring harness)
C69 Fog lamp connection (in left front wiring harness)

* from November 2009
*2 Only for vehicles with fog lamps
*3 Only for vehicles with daytime running lamps
Left swivel module position sensor, Vehicle electrical control module system, Left headlamp power output module, Left headlamp beam adjustment motor, Left adaptive cornering lamp motor

G474  Left swivel module position sensor
J519  Vehicle electrical control module system
J667  Left headlamp power output module, on the left headlamp
T5o  5-pin connector
T14e  14-pin connector, on the left headlamp
T16j  16-pin connector, under the instrument panel, left
T24a  24-pin connector
V48  Left headlamp beam adjustment motor
V318  Left adaptive cornering lamp motor

(B229)  High bus connection (in interior wiring harness)
(B230)  Low bus connection (in interior wiring harness)

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

https://www.automotive-manuals.net/
Left rear level control system sensor, Vehicle electrical control module system, Data bus on board diagnostic interface, Cornering lamp and headlamp range control module

G76  Left rear level control system sensor
J519  Vehicle electrical control module system
J533  Data bus on board diagnostic interface, in the left footwell, near the center console
J745  Cornering lamp and headlamp range control module, on the right glove compartment
T4ar  4-pin connector
T16   16-pin connector
T20   20-pin connector
T26h  26-pin connector
U31   Diagnostic connection
B229  High bus connection (in interior wiring harness)
B230  Low bus connection (in interior wiring harness)
B383  Powertrain CAN bus high connection 1 (in main wiring harness)
B390  Powertrain CAN bus low connection 1 (in main wiring harness)
N5    Connection 4 (in headlamp range control wiring harness)
N6    Connection 5 (in headlamp range control wiring harness)
N7    Connection 6 (in headlamp range control wiring harness)
* Only for vehicles without all wheel drive
*2 Only for vehicles with all wheel drive

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

https://www.automotive-manuals.net/
Right swivel module position sensor, Vehicle electrical control module system, Right headlamp power output module, Right headlamp beam adjustment motor, Right adaptive cornering lamp motor

- G475  Right swivel module position sensor
- J519  Vehicle electrical control module system
- J668  Right headlamp power output module, on the right headlamp
- T5p   5-pin connector
- T14f  14-pin connector, on the right headlamp
- T16k  16-pin connector, in the right headlamp, black
- T24b  24-pin connector
- V49   Right headlamp beam adjustment motor
- V319  Right adaptive cornering lamp motor

- (B229) High bus connection (in interior wiring harness)
- (B230) Low bus connection (in interior wiring harness)

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

https://www.automotive-manuals.net/
Right HID lamp ballast, Vehicle electrical control module system, Right HID headlamp bulb, Right front fog lamp bulb, Right cornering lamp bulb, Right daytime running lamp bulb, Right front turn signal bulb, Right low beam headlamp reflector motor

- J427 Right HID lamp ballast
- J519 Vehicle electrical control module system
- L14 Right HID headlamp bulb
- L23 Right front fog lamp bulb
- L149 Right cornering lamp bulb
- L175 Right daytime running lamp bulb
- M3 Right position lamp bulb
- M7 Right front turn signal bulb
- T2bd Double connector
- T2cb Double connector
- T4at 4-pin connector
- T4ba 4-pin connector
- T14f 14-pin connector, on the right headlamp
- T16k 16-pin connector, in the right headlamp, black
- T52a 52-pin connector
- T52c 52-pin connector
- V295 Right low beam headlamp reflector motor

- 120 Ground connection 2 (in headlamp wiring harness)
- 378 Ground connection 13 (in main wiring harness)
- 393 Ground connection 28 (in main wiring harness)
- 656 Ground connection on right headlamp
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- B143 Positive connection (58R) (in interior wiring harness)
- B167 Connection 56b (in interior wiring harness)
- D59 Fog lamp connection (in engine compartment wiring harness)

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

* from November 2009
*2 Only for vehicles with daytime running lamps
*3 Only for vehicles with fog lamps
Vehicle electrical control module system, Lighting control illumination bulb

- **E1** Light switch
- **E20** Instrument panel and switch illumination dimmer switch
- **J519** Vehicle electrical control module system
- **L105** Lighting control illumination bulb
- **T8e** 8-pin connector
- **T10h** 10-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

- **47** Ground connection in right front footwell
- **366** Ground connection 1 (in main wiring harness)
- **387** Ground connection 22 (in main wiring harness)
- **388** Ground connection 23 (in main wiring harness)
- **B340** Connection 58d (in main wiring harness) 1

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Tire pressure monitoring, (7K4)
from May 2009
Instrument cluster control module

- G222 Left front tire pressure monitoring sensor
- G223 Right front tire pressure monitoring sensor
- G224 Left rear tire pressure monitoring sensor
- G225 Right rear tire pressure monitoring sensor
- J119 Multifunction indicator
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface
- R11 Antenna
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Headlamps Bixenon HID with range control, cornering lamp, LED daytime running lamps, (8K1),(8K2)
from November 2009
Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- J329 Terminal 15 power supply relay
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SC1 Fuse 1 (on fuse panel C)
- SC5 Fuse 5 (on fuse panel C)
- SC6 Fuse 6 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB16 Fuse 16 (on fuse panel B)
- SB26 Fuse 26 (on fuse panel B)
- SB49 Fuse 49 (on fuse panel B)
- SC Fuse panel C
- T40 40-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

Ground connections:
- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A192 Positive connection 3 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)

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

https://www.automotive-manuals.net/
Left HID lamp ballast, Left HID headlamp bulb, Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp and position lamp LED module, Left front turn signal bulb, Left low beam headlamp reflector motor

- J426 Left HID lamp ballast, on the left headlamp
- J519 Vehicle electrical control module system
- L13 Left HID headlamp bulb
- L22 Left front fog lamp bulb
- L148 Left cornering lamp bulb
- L176 Left daytime running lamp and position lamp LED module
- M5 Left front turn signal bulb
- T2bc Double connector
- T2ca Double connector
- T4as 4-pin connector
- T4az 4-pin connector
- T14e 14-pin connector, on the left headlamp
- T16j 16-pin connector, on the left headlamp
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V294 Left low beam headlamp reflector motor

- 119 Ground connection 1 (in headlamp wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 381 Ground connection 16 (in main wiring harness)
- 392 Ground connection 27 (in main wiring harness)
- 655 Ground connection on left headlamp
- A6 Left turn signal positive connection (in instrument panel wiring harness)
- B144 Positive connection (58L) (in interior wiring harness)
- C69 Fog lamp connection (in left front wiring harness)

* from November 2009
*2 Only for vehicles with fog lamps

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

https://www.automotive-manuals.net/
Left swivel module position sensor, Left headlamp power output module, Left headlamp beam adjustment motor, Left adaptive cornering lamp motor

- **G474**: Left swivel module position sensor
- **J519**: Vehicle electrical control module system
- **J667**: Left headlamp power output module, on the left headlamp
- **T5o**: 5-pin connector
- **T14e**: 14-pin connector, on the left headlamp
- **T16j**: 16-pin connector, on the left headlamp
- **T24a**: 24-pin connector
- **V48**: Left headlamp beam adjustment motor
- **V318**: Left adaptive cornering lamp motor

- **(B229)**: High bus connection (in interior wiring harness)
- **(B230)**: Low bus connection (in interior wiring harness)

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

Golf Wiring Diagram

No. 63 / 4

https://www.automotive-manuals.net/
Left rear level control system sensor, Data bus on board diagnostic interface, Cornering lamp and headlamp range control module

- **G76** Left rear level control system sensor
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **J745** Cornering lamp and headlamp range control module, on the right glove compartment
- **T4ar** 4-pin connector
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T26h** 26-pin connector
- **U31** Diagnostic connection

**Color Codes**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Right swivel module position sensor, Right headlamp power output module, Right headlamp beam adjustment motor, Right adaptive cornering lamp motor

- G475  Right swivel module position sensor
- J519  Vehicle electrical control module system
- J668  Right headlamp power output module, on the right headlamp
- T5p   5-pin connector
- T14f  14-pin connector, on the right headlamp
- T16k  16-pin connector, in the right headlamp, black
- T24b  24-pin connector
- V49   Right headlamp beam adjustment motor
- V319  Right adaptive cornering lamp motor

(B229) High bus connection (in interior wiring harness)
(B230) Low bus connection (in interior wiring harness)
Right HID lamp ballast, Right HID headlamp bulb, Right front fog lamp bulb, Right cornering lamp bulb, Right daytime running lamp and position lamp LED module, Right front turn signal bulb, Right low beam headlamp reflector motor

J427  Right HID lamp ballast
J519  Vehicle electrical control module system
L14   Right HID headlamp bulb
L23   Right front fog lamp bulb
L149  Right cornering lamp bulb
L177  Right daytime running lamp and position lamp LED module
M7    Right front turn signal bulb
T2bd  Double connector
T2cb  Double connector
T4at  4-pin connector
T4ba  4-pin connector
T14f  14-pin connector, on the right headlamp
T16k  16-pin connector, in the right headlamp, black
T52a  52-pin connector
T52c  52-pin connector
V295  Right low beam headlamp reflector motor

120  Ground connection 2 (in headlamp wiring harness)
378  Ground connection 13 (in main wiring harness)
393  Ground connection 28 (in main wiring harness)
656  Ground connection on right headlamp
A5   Right turn signal positive connection (in instrument panel wiring harness)
B143 Positive connection (58R) (in interior wiring harness)
B167 Connection 56b (in interior wiring harness)
D59  Fog lamp connection (in engine compartment wiring harness)

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

* from November 2009
*2 Only for vehicles with fog lamps

https://www.automotive-manuals.net/
Lighting control illumination bulb

- E1  Light switch
- E20 Instrument panel and switch illumination dimmer switch
- J519 Vehicle electrical control module system
- L105 Lighting control illumination bulb
- T8e 8-pin connector
- T10h 10-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

47  Ground connection in right front footwell
366  Ground connection 1 (in main wiring harness)
387  Ground connection 22 (in main wiring harness)
388  Ground connection 23 (in main wiring harness)
B340 Connection 58d (in main wiring harness) 1
*  Only for vehicles without Start/Stop system
*2  Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
E-box High fuse assignment
from November 2009
### Battery, Starter, Generator

- **A** Battery
- **B** Starter
- **C** Generator
- **C1** Voltage regulator
- **J293** Radiator fan control module
- **J500** Power steering control module
- **J519** Vehicle electrical control module system
- **J623** Engine control module
- **J682** Terminal 50 power supply relay
- **SA1** Fuse 1 (on fuse panel A)
- **SA2** Fuse 2 (on fuse panel A)
- **SA3** Fuse 3 (on fuse panel A)
- **SA4** Fuse 4 (on fuse panel A)
- **SA5** Fuse 5 (on fuse panel A)
- **SC** Fuse panel C
- **T2** Double connector
- **T4t** 4-pin connector, near the starter
- **T4x** 4-pin connector
- **T52c** 52-pin connector
- **T94** 94-pin connector
- **1** Ground strap, battery to body
- **12** Ground connection in engine compartment, left
- **508** Terminal 30 threaded connection (on E-box)
- **652** Transmission/engine ground connection
- **A45** RPM signal connection (in instrument panel wiring harness)
- **B169** Positive connection 1 (30) (in interior wiring harness)
- **D110** Connection 8 (in engine compartment wiring harness)

*Only for vehicles with a generator (140 A)*

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

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[View the source PDF online](https://www.automotive-manuals.net/)
Fuse panel B, Fuse 1 (on fuse panel B), Fuse 2 (on fuse panel B), Fuse 4 (on fuse panel B), Fuse 5 (on fuse panel B)

- J4 Dual tone horn relay
- J104 ABS control module
- J367 Battery monitoring control module
- J519 Vehicle electrical control module system
- J743 DSG transmission Mechatronic
- SA6 Fuse 6 (on fuse panel A)
- SA7 Fuse 7 (on fuse panel A)
- SB Fuse panel B
  - SB1 Fuse 1 (on fuse panel B)
  - SB2 Fuse 2 (on fuse panel B)
  - SB3 Fuse 3 (on fuse panel B)
  - SB4 Fuse 4 (on fuse panel B)
  - SB5 Fuse 5 (on fuse panel B)
  - SB13 Fuse 13 (on fuse panel B)
  - SB14 Fuse 14 (on fuse panel B)

- T5gj 5-pin connector
- T20e 20-pin connector
- T26 26-pin connector
- T40 40-pin connector
- T47c 47-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

Terminal 30 threaded connection (on E-box)

Positive connection 5 (30a) (in main wiring harness)

Positive connection 2 (30a) (in engine compartment wiring harness)

* Only for vehicles with DSG transmission

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse 31 (on fuse panel B), Fuse 47 (on fuse panel B), Fuse 48 (on fuse panel B), Fuse 52 (on fuse panel B), Fuse 53 (on fuse panel B)

- J59 Load reduction relay
- J104 ABS control module
- J400 Wiper motor control module
- J519 Vehicle electrical control module system
- R64 Parking heater radio receiver
- SB Fuse panel B
- SB30 Fuse 30 (on fuse panel B)
- SB31 Fuse 31 (on fuse panel B)
- SC32 Fuse 32 (on fuse panel C)
- SB34 Fuse 34 (on fuse panel B)
- SB35 Fuse 35 (on fuse panel B)
- SB36 Fuse 36 (on fuse panel B)
- SB37 Fuse 37 (on fuse panel B)
- SB47 Fuse 47 (on fuse panel B)
- SB48 Fuse 48 (on fuse panel B)
- SB51 Fuse 51 (on fuse panel B)
- SB52 Fuse 52 (on fuse panel B)
- SB53 Fuse 53 (on fuse panel B)
- SB54 Fuse 54 (on fuse panel B)
- T4q 4-pin connector
- T7 7-pin connector
- T40 40-pin connector
- T47c 47-pin connector
- T52a 52-pin connector

Positive connection 1 (30a) (in interior wiring harness)

* Only for vehicles with auxiliary heater radio receiver
*2 Only for right-hand drive vehicles
Motronic engine control module power supply relay, Auxiliary engine coolant pump relay, Fuse panel B, Fuse 15 (on fuse panel B), Fuse 28 (on fuse panel B), Fuse 29 (on fuse panel B)

J271 Motronic engine control module power supply relay
J496 Auxiliary engine coolant pump relay
J623 Engine control module
SB Fuse panel B
SB15 Fuse 15 (on fuse panel B)
SB28 Fuse 28 (on fuse panel B)
SB29 Fuse 29 (on fuse panel B)
T26 26-pin connector
T40 40-pin connector
T94 94-pin connector
V50 Coolant recirculation pump

\( \text{D182} \) Connection 3 (87a) (in engine compartment wiring harness)

\( \text{D183} \) Connection 4 (87a) (in engine compartment wiring harness)

* Through May 2010
*2 from June 2010
*3 Refer to applicable engine wiring diagram

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse 27 (on fuse panel B), Fuse 38 (on fuse panel B), Fuse 39 (on fuse panel B), Fuse 40 (on fuse panel B), Fuse 42 (on fuse panel B)

- G476 Clutch position sensor
- J203 Radiator fan control module
- N70 Ignition coil 1 with power output stage
- N127 Ignition coil 2 with power output stage
- N205 Camshaft adjustment valve 1
- N291 Ignition coil 3 with power output stage
- N292 Ignition coil 4 with power output stage
- N321 Exhaust door valve 1
- SB Fuse panel B
- SB27 Fuse 27 (on fuse panel B)
- SB38 Fuse 38 (on fuse panel B)
- SB39 Fuse 39 (on fuse panel B)
- SB40 Fuse 40 (on fuse panel B)
- SB41 Fuse 41 (on fuse panel B)
- SB42 Fuse 42 (on fuse panel B)
- SB43 Fuse 43 (on fuse panel B)
- T4x 4-pin connector
- T5m 5-pin connector
- T14a 14-pin connector
- T26 26-pin connector
- T40 40-pin connector
- V7 Radiator fan

- D180 Connection 87a (in engine compartment wiring harness)
- D206 Connection 87a (in engine pre-wiring harness) 4

* Only for right-hand drive vehicles

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse 17 (on fuse panel B), Fuse 18 (on fuse panel B), Fuse 23 (on fuse panel B), Fuse 24 (on fuse panel B)

- J285 Instrument cluster control module
- J527 Steering column electronics control module
- J533 Data bus on board diagnostic interface
- J623 Engine control module
- R12 Amplifier
- SB Fuse panel B
- SB17 Fuse 17 (on fuse panel B)
- SB18 Fuse 18 (on fuse panel B)
- SB21 Fuse 21 (on fuse panel B)
- SB22 Fuse 22 (on fuse panel B)
- SB23 Fuse 23 (on fuse panel B)
- SB24 Fuse 24 (on fuse panel B)
- SC47 Fuse 47 (on fuse panel C)
- T16r 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T38 38-pin connector
- T40 40-pin connector
- T94 94-pin connector
- B504 Positive connection 8 (30a) (in interior wiring harness)
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)
  * Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Radio/navigation display unit control module, Engine component power supply relay, Fuse panel B, Fuse 19 (on fuse panel B), Fuse 20 (on fuse panel B), Fuse 49 (on fuse panel B)

- J412 Cell phone operating electronics control module
- J503 Radio/navigation display unit control module
- J623 Engine control module
- J681 Terminal 15 power supply relay 2
- J757 Engine component power supply relay

R Radio

SB Fuse panel B

- SB6 Fuse 6 (on fuse panel B)
- SB10 Fuse 10 (on fuse panel B)
- SB16 Fuse 16 (on fuse panel B)
- SB19 Fuse 19 (on fuse panel B)
- SB20 Fuse 20 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- SB26 Fuse 26 (on fuse panel B)
- SB28 Fuse 28 (on fuse panel C)
- SB49 Fuse 49 (on fuse panel B)
- SB50 Fuse 50 (on fuse panel B)

T9ah 9-pin connector
T26 26-pin connector
T40 40-pin connector
T94 94-pin connector

- B224 Radio connection 1 (in interior wiring harness)
- B314 Positive connection 18 (30) (in main wiring harness)

* Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse 7 (on fuse panel B), Fuse 9 (on fuse panel B), Fuse 11 (on fuse panel B), Fuse 12 (on fuse panel B), Oxygen sensor heater, Heater for oxygen sensor 1 after catalytic converter

N75 Wastegate bypass regulator valve
N80 EVAP canister purge regulator valve 1
N249 Turbocharger recirculation valve
N276 Fuel pressure regulator valve
SB Fuse panel B
SB7 Fuse 7 (on fuse panel B)
SB8 Fuse 8 (on fuse panel B)
SB9 Fuse 9 (on fuse panel B)
SB11 Fuse 11 (on fuse panel B)
SB12 Fuse 12 (on fuse panel B)
SB32 Fuse 32 (on fuse panel B)
SB33 Fuse 33 (on fuse panel B)
SB44 Fuse 44 (on fuse panel B)
SB45 Fuse 45 (on fuse panel B)
SB46 Fuse 46 (on fuse panel B)
T4v 4-pin connector
T6w 6-pin connector
T14a 14-pin connector
T26 26-pin connector
T40 40-pin connector
Z19 Oxygen sensor heater
Z29 Heater for oxygen sensor 1 after catalytic converter

D189 Connection 87a (in engine pre-wiring harness)

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

https://www.automotive-manuals.net/
2.0L diesel engine, CJAA
from September 2009
Battery, Starter, Generator, Fuse 1 (on fuse panel A), Fuse 5 (on fuse panel A), Fuse 27 (on fuse panel C)

- A Battery
- B Starter
- C Generator
- C1 Voltage regulator
- SA1 Fuse 1 (on fuse panel A)
- SA5 Fuse 5 (on fuse panel A)
- SC27 Fuse 27 (on fuse panel C)
- T2 2-pin connector
- T2c 2-pin connector, near the starter
- T4t 4-pin connector, near the starter

1. Ground strap, battery to body
14. Ground connection on transmission
508. Terminal 30 threaded connection (on E-box)
652. Transmission/engine ground connection
B169. Positive connection 1 (30) (in interior wiring harness)
B177. Connection 61 (in interior wiring harness)
D110. Connection 8 (in engine compartment wiring harness)

* Only for vehicles with A/C system
*2 Only for vehicles without an A/C system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Terminal 15 power supply relay, Terminal 50 power supply relay, Fuse 1 (on fuse panel C), Fuse 2 (on fuse panel C)

- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- SC1 Fuse 1 (on fuse panel C)
- SC2 Fuse 2 (on fuse panel C)
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- T40 40-pin connector

Terminal 30 threaded connection (on E-box)
- Terminal 15 power supply relay
- Terminal 50 power supply relay
- Fuse 1 (on fuse panel C)
- Fuse 2 (on fuse panel C)
- Fuse 6 (on fuse panel B)
- Fuse 7 (on fuse panel B)
- 40-pin connector

Positive connection 3 (15a) (in instrument panel wiring harness)
- Positive connection 1 (15) (in interior wiring harness)
- Positive connection 2 (15a) (in main wiring harness)
- Positive connection 8 (30a) (in interior wiring harness)
- Diagnostic terminal 50 connection (in main wiring harness)

* from November 2009
*2 Through October 2009
*3 Only for vehicles with crankcase ventilation heater
*4 Through November 2011

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

https://www.automotive-manuals.net/
Automatic glow time control module, Connection bridge

- J179: Automatic glow time control module, under the E-box, left
- J359: Low heat output relay
- J360: High heat output relay
- SB14: Fuse 14 (on fuse panel B)
- SB20: Fuse 20 (on fuse panel B)
- SB21: Fuse 21 (on fuse panel B)
- SB23: Fuse 23 (on fuse panel B)
- SB24: Fuse 24 (on fuse panel B)
- SB27: Fuse 27 (on fuse panel B)
- T11b: 11-pin connector
- T14a: 14-pin connector, near the battery
- TV23: Connection bridge
- T40: 40-pin connector

**Ground connections**
- 376: Ground connection 11 (in main wiring harness)
- 381: Ground connection 16 (in main wiring harness)
- 655: Ground connection on left headlamp
- D180: Connection 87a (in engine compartment wiring harness)
- D183: Connection 4 (87a) (in engine compartment wiring harness)

* Only for vehicles with auxiliary heater
  - *2: from November 2009
  - *3: Through October 2009

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

https://www.automotive-manuals.net/
Fuel level sensor, Transfer fuel pump, Fuel pump relay, Terminal 30 power supply relay, Fuel primer relay

- **G**: Fuel level sensor
- **G6**: Transfer fuel pump
- **J17**: Fuel pump relay
- **J317**: Terminal 30 power supply relay
- **J643**: Fuel primer relay
- **SB10**: Fuse 10 (on fuse panel B)
- **SB13**: Fuse 13 (on fuse panel B)
- **SB15**: Fuse 15 (on fuse panel B)
- **SB22**: Fuse 22 (on fuse panel B)
- **T5b**: 5-pin connector
- **T40**: 40-pin connector

- **Connection 87a (in instrument panel wiring harness)**: *A193*
- **Positive connection (30a) (in interior wiring harness)**: *B156*
- **Positive connection 1 (30a) (in engine compartment wiring harness)**: *D78*
- **Connection 4 (87a) (in engine compartment wiring harness)**: *D183*

- *from November 2009*
- *2 Through October 2009*
- *3 Only for vehicles with automatic transmission*
- *4 from November 2010*
- *5 Only for vehicles with a manual transmission*
- *6 from May 2010*
- *7 through April 2010*

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

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[Diagram of Golf Wiring Diagram](https://www.automotive-manuals.net/)
Engine control module

**J527** Steering column electronics control module
**J623** Engine control module, in the center plenum chamber
**T16r** 16-pin connector
**T20d** 20-pin connector
**T94** 94-pin connector

- **131** Ground connection 2 (in engine compartment wiring harness)
- **383** Ground connection 18 (in main wiring harness)
- **607** Ground connection in plenum chamber, left
- **682** Ground connection 2 in right rear side panel
- **B441** Cruise control connection (in main wiring harness)
- **D182** Connection 3 (87a) (in engine compartment wiring harness)

* from May 2010
*2 through April 2010

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

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https://www.automotive-manuals.net/
Charge air pressure sensor, Intake air temperature sensor, Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module

G31 Charge air pressure sensor
G42 Intake air temperature sensor
G79 Accelerator pedal position sensor
G185 Accelerator pedal position sensor 2
J623 Engine control module, in the center plenum chamber
T4bf 4-pin connector, near the starter
T6h 6-pin connector
T94 94-pin connector
Cylinder 1 internal pressure sensor, Cylinder 2 internal pressure sensor, Cylinder 3 internal pressure sensor, Engine control module, Glow plug 1, Glow plug 2, Glow plug 3

G620 Cylinder 1 internal pressure sensor
G621 Cylinder 2 internal pressure sensor
G622 Cylinder 3 internal pressure sensor
J623 Engine control module, in the center plenum chamber
Q10 Glow plug 1
Q11 Glow plug 2
Q12 Glow plug 3
T4cb 4-pin connector
T4cc 4-pin connector
T4cd 4-pin connector
T60 60-pin connector
492 Sensor ground connection 2 (in fuel injection system wiring harness)
D128 Connection 26 (in engine compartment wiring harness)
Wiring Diagram

Throttle position sensor, Mass airflow sensor, Cylinder 4 internal pressure sensor, Throttle valve control module, Engine control module, Glow plug 4

G69 Throttle position sensor
G70 Mass airflow sensor
G623 Cylinder 4 internal pressure sensor
J338 Throttle valve control module
J623 Engine control module, in the center plenum chamber
Q13 Glow plug 4
T4ca 4-pin connector
T4ce 4-pin connector
T5d 5-pin connector
T14a 14-pin connector, near the battery
T60 60-pin connector
T94 94-pin connector

492 Sensor ground connection 2 (in fuel injection system wiring harness)
642 Electronic fan control ground connection
D128 Connection 26 (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Heated oxygen sensor, Oxygen sensor after catalytic converter, Engine control module

- G39  Heated oxygen sensor
- G130  Oxygen sensor after catalytic converter
- J623  Engine control module, in the center plenum chamber
- T6bb  6-pin connector, near the oxygen sensor
- T6w  6-pin connector, in the engine compartment, rear
- T94  94-pin connector
- Z19  Oxygen sensor heater
- Z29  Heater for oxygen sensor 1 after catalytic converter
- E30  Connection 87a (in engine wiring harness)

w s = white
s w = black
r o = red
r t = red
b r = brown
g n = green
b l = blue
g r = grey
l i = lilac
v i = lilac
g e = yellow
o r = orange
r s = pink

https://www.automotive-manuals.net/
Engine coolant temperature sensor on radiator outlet, Exhaust gas temperature sensor 1, Exhaust gas temperature sensor 2, Exhaust gas temperature sensor 3, Exhaust gas temperature sensor 4, Engine control module

G83  Engine coolant temperature sensor on radiator outlet
G235  Exhaust gas temperature sensor 1
G448  Exhaust gas temperature sensor 2
G495  Exhaust gas temperature sensor 3
G648  Exhaust gas temperature sensor 4
J623  Engine control module, in the center plenum chamber
T2ar  2-pin connector, in the engine compartment, rear
T2as  2-pin connector, in the engine compartment, rear
T2at  2-pin connector, in the engine compartment, rear
T2br  2-pin connector, in the engine compartment, rear
T4x  4-pin connector, on the lower left coolant fan
T10l  10-pin connector, on the lower left coolant fan
T14a  14-pin connector, near the battery
T94  94-pin connector

* Sensor ground connection (in engine compartment wiring harness)
  *2  Radiator fan connection
  *3  through April 2011
  *3  from May 2011

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

https://www.automotive-manuals.net/
Exhaust pressure sensor 1, Differential pressure sensor, Engine control module, Exhaust door control unit, Cylinder 1 fuel injector

- G450 Exhaust pressure sensor 1
- G505 Differential pressure sensor
- J623 Engine control module, in the center plenum chamber
- J883 Exhaust door control unit
- N30 Cylinder 1 fuel injector
- T3bn 3-pin connector
- T3bs 3-pin connector
- T5aa 5-pin connector
- T5ab 5-pin connector, in the engine compartment, rear
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

Sensor ground connection 2 (in engine wiring harness)
Connection 2 (5V) (in engine pre-wiring harness)

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

https://www.automotive-manuals.net/
Engine speed sensor, Fuel temperature sensor, Engine control module, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector, Fuel pressure regulator valve, Fuel metering valve

- **G28** Engine speed sensor
- **G81** Fuel temperature sensor
- **J623** Engine control module, in the center plenum chamber
- **N31** Cylinder 2 fuel injector
- **N32** Cylinder 3 fuel injector
- **N33** Cylinder 4 fuel injector
- **N276** Fuel pressure regulator valve
- **N290** Fuel metering valve
- **T14a** 14-pin connector, near the battery
- **T60** 60-pin connector

- **220** Sensor ground connection (in engine wiring harness)
- **D101** Connection 1 (in engine compartment wiring harness)
- **D197** Connection 5 (87a) (in engine compartment wiring harness)

\[
\begin{align*}
&ws = \text{white} \\
&sw = \text{black} \\
&ro = \text{red} \\
&rt = \text{red} \\
&br = \text{brown} \\
&gn = \text{green} \\
&bl = \text{blue} \\
&gr = \text{grey} \\
&li = \text{lilac} \\
&vi = \text{lilac} \\
&ge = \text{yellow} \\
&or = \text{orange} \\
&rs = \text{pink}
\end{align*}
\]
EGR potentiometer, Fuel pressure sensor, Exhaust gas recirculation position sensor 2, Charge air pressure actuator position sensor, Engine control module, EGR vacuum regulator solenoid valve, Valve 2 for EGR

G212  EGR potentiometer  
G247  Fuel pressure sensor  
G466  Exhaust gas recirculation position sensor 2  
G581  Charge air pressure actuator position sensor  
J623  Engine control module, in the center plenum chamber  
N18  EGR vacuum regulator solenoid valve  
N213  Valve 2 for EGR  
T6ba  6-pin connector  
T6y  6-pin connector  
T60  60-pin connector  

Sensor ground connection (in engine wiring harness)  
Connection 1 (in engine compartment wiring harness)
Camshaft position sensor, Engine coolant temperature sensor, Intake manifold runner position sensor, Engine control module, Wastegate bypass regulator valve, EGR cooler switch-over valve, Intake flap motor

- **G40** Camshaft position sensor
- **G62** Engine coolant temperature sensor
- **G336** Intake manifold runner position sensor
- **J623** Engine control module, in the center plenum chamber
- **N75** Wastegate bypass regulator valve
- **N345** EGR cooler switch-over valve
- **T3d** 3-pin connector, on the engine, front
- **T5i** 5-pin connector
- **T10i** 10-pin connector, on the lower left coolant fan
- **T14a** 14-pin connector, near the battery
- **T60** 60-pin connector
- **T94** 94-pin connector
- **V157** Intake flap motor

**328** Sensor ground connection 2 (in engine compartment wiring harness)

**474** Sensor ground connection (in engine pre-wiring harness)

**D102** Connection 2 (in engine compartment wiring harness)

**D141** Connection 5V (in engine pre-wiring harness)

* through April 2011
*2 from May 2011

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**Legend:**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
EGR temperature sensor, Fuel pump relay 2, Engine control module, Positive crankcase ventilation heating element, Fuel pump 2

E16  Heater/heat output switch  
G98  EGR temperature sensor  
J49  Fuel pump relay 2  
J359 Low heat output relay  
J360 High heat output relay  
J623 Engine control module, in the center plenum chamber  
N79  Positive crankcase ventilation heating element  
T10l 10-pin connector, on the lower left coolant fan  
T14a 14-pin connector, near the battery  
T20c 20-pin connector  
T60 60-pin connector  
T94 94-pin connector  
V277 Fuel pump 2  

- 474 Sensor ground connection (in engine pre-wiring harness)  
- 656 Ground connection on right headlamp  
- B131 Connection 54 (in interior wiring harness)  
  * from November 2009  
  *2 Through October 2009  
  *3 from May 2011  
  *4 Only for vehicles with crankcase ventilation heater  
  *5 through April 2011  
  *6 from November 2010  
  *7 Only for vehicles without an A/C system  
  *8 Only for vehicles with auxiliary heater

ws = white  
sw = black  
ro = red  
r = red  
br = brown  
kn = green  
bl = blue  
gr = grey  
li = lilac  
vi = lilac  
ge = yellow  
or = orange  
rs = pink

https://www.automotive-manuals.net/
Data bus on board diagnostic interface

J104  ABS control module
J519  Vehicle electrical control module system
J533  Data bus on board diagnostic interface, in the left footwell, near the center console
J743  DSG transmission Mechatronic

T20  20-pin connector
T20e  20-pin connector
T26a  26-pin connector
T47c  47-pin connector
T52b  52-pin connector
T52c  52-pin connector

B383  Powertrain CAN bus high connection 1 (in main wiring harness)
B390  Powertrain CAN bus low connection 1 (in main wiring harness)
B397  Comfort system CAN bus high connection 1 (in main wiring harness)
B398  Comfort system CAN bus high connection 2 (in main wiring harness)
B406  Comfort system CAN bus low connection 1 (in main wiring harness)
B407  Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with a manual transmission
*2 from November 2010
*3 Only for vehicles with DSG transmission

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

https://www.automotive-manuals.net/
Fuel gauge, Engine coolant temperature gauge, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Data bus on board diagnostic interface, Glow plug indicator lamp, Diesel particulate filter indicator lamp

G1  Fuel gauge  
G3  Engine coolant temperature gauge  
G32  Engine coolant level sensor  
J119  Multifunction indicator  
J285  Instrument cluster control module  
J533  Data bus on board diagnostic interface, in the left footwell, near the center console  
K29  Glow plug indicator lamp  
K83  Malfunction indicator lamp  
K132  Electronic power control malfunction indicator lamp  
K231  Diesel particulate filter indicator lamp  
T16  16-pin connector  
T20  20-pin connector  
T32  32-pin connector  
U31  Diagnostic connection  

410  Sensor ground connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
Oil pressure switch, Instrument cluster control module

- **F1**: Oil pressure switch
- **H3**: Warning buzzer and tone
- **J285**: Instrument cluster control module
- **K3**: Oil pressure indicator lamp
- **K31**: Cruise control indicator lamp
- **K38**: Oil level indicator lamp
- **K105**: Low fuel level indicator lamp
- **T14a**: 14-pin connector, near the battery
- **T32**: 32-pin connector

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**Legend**:

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

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https://www.automotive-manuals.net/
Anti-Lock Brake System (ABS) with EDL and ASR, (1AS), (1AT)
from November 2009
Left front ABS wheel speed sensor, ABS control module, Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- Battery
- Starter
- G47 Left front ABS wheel speed sensor
- J104 ABS control module, in the engine compartment, right
- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- N133 Right rear ABS inlet valve
- N134 Left rear ABS inlet valve
- N136 Left rear ABS outlet valve
- SB Fuse panel B
- SC2 Fuse 2 (on fuse panel C)
- SC4 Fuse 4 (on fuse panel C)
- SC7 Fuse 7 (on fuse panel B)
- SB25 Fuse 25 (on fuse panel B)
- SC Fuse panel C
- T26a 26-pin connector
- T40 40-pin connector

- Ground connection on A-pillar, lower right
- Terminal 30 threaded connection (on E-box)
- Positive connection 8 (15a) (in instrument panel wiring harness)
- Positive connection 1 (15) (in interior wiring harness)
- Positive connection 2 (15a) (in main wiring harness)
- Left front speed sensor positive connection (in engine compartment wiring harness)
- Left front speed sensor negative connection (in engine compartment wiring harness)

* Only for vehicles with tire pressure monitoring

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

https://www.automotive-manuals.net/
ASR switch, Right rear ABS wheel speed sensor, Right front ABS wheel speed sensor, Left rear ABS wheel speed sensor, ABS control module

E132  ASR switch
G44   Right rear ABS wheel speed sensor
G45   Right front ABS wheel speed sensor
G46   Left rear ABS wheel speed sensor
J104  ABS control module, in the engine compartment, right
L71   ASR switch illumination bulb
N99   Right front ABS inlet valve
N101  Left front ABS inlet valve
N102  Left front ABS outlet valve
N135  Right rear ABS outlet valve
N225  Driving dynamics regulation switch valve 1
N226  Driving dynamics regulation switch valve 2
T6ad  6-pin connector
T26a  26-pin connector
V64   ABS hydraulic pump

0.35  ws/vi
0.5   sw
0.5   gn
0.5   ro
0.5   rt
0.5   br
0.5   gr
0.5   bl
0.35  vi/gn
0.35  sw/gn
0.35  vi
0.35  white
0.35  black
0.35  red
0.35  red
0.35  brown
0.35  blue
0.35  grey
0.35  green
0.35  green
0.35  yellow
0.35  orange
0.35  pink

Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system
Tire pressure monitoring display button, ABS control module, Vehicle electrical control module system

- E492  Tire pressure monitoring display button
- F   Brake lamp switch
- J104  ABS control module, in the engine compartment, right
- J519  Vehicle electrical control module system
- J623  Engine control module
- L76   Push button illumination control module
- N100  Right front ABS outlet valve
- T4bc  4-pin connector
- T6ak  6-pin connector
- T26a  26-pin connector
- T52b  52-pin connector
- T52c  52-pin connector
- T4bc  4-pin connector

- 388  Ground connection 23 (in main wiring harness)
- B131  Connection 54 (in interior wiring harness)
- B340  Connection 58d (in main wiring harness) 1
- B383  Powertrain CAN bus high connection 1 (in main wiring harness)
- B390  Powertrain CAN bus low connection 1 (in main wiring harness)

* Only for vehicles with tire pressure monitoring
*2 Only for vehicles with a speech recognition system

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

https://www.automotive-manuals.net/
Parking brake indicator lamp switch, Left front brake pad wear sensor, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface, ABS indicator lamp, Traction control indicator lamp, Brake system indicator lamp, Tire pressure monitoring display indicator lamp

- **F9** Parking brake indicator lamp switch
- **G34** Left front brake pad wear sensor
- **H3** Warning buzzer and tone
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **K47** ABS indicator lamp
- **K86** Traction control indicator lamp
- **K118** Brake system indicator lamp
- **K220** Tire pressure monitoring display indicator lamp
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T32** 32-pin connector
- **T52c** 52-pin connector
- **U31** Diagnostic connection

- **(B379)** Brake wear indicator connection 1 (in main wiring harness)
- **(B383)** Powertrain CAN bus high connection 1 (in main wiring harness)
- **(B390)** Powertrain CAN bus low connection 1 (in main wiring harness)
- **(B397)** Comfort system CAN bus high connection 1 (in main wiring harness)
- **(B398)** Comfort system CAN bus high connection 2 (in main wiring harness)
- **(B406)** Comfort system CAN bus low connection 1 (in main wiring harness)
- **(B407)** Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with brake pad wear indicator

```
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
```
Brake fluid level warning switch, Instrument cluster control module

F34  Brake fluid level warning switch
J285  Instrument cluster control module
T32  32-pin connector

44  Ground connection on A-pillar, lower left
367  Ground connection 2 (in main wiring harness)
376  Ground connection 11 (in main wiring harness)
381  Ground connection 16 (in main wiring harness)
389  Ground connection 24 (in main wiring harness)
605  Ground connection on upper steering column
655  Ground connection on left headlamp

B380  Brake wear indicator connection 2 (in main wiring harness)
* Only for vehicles with brake pad wear indicator

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

https://www.automotive-manuals.net/
Anti-Lock Brake System (ABS) with EDL and ASR and ESP, (1AS),(1AT) from November 2009
ABS control module, Terminal 15 power supply relay, Fuse panel B, Fuse panel C

A  Battery
B  Starter
J104  ABS control module, in the engine compartment, right
J329  Terminal 15 power supply relay
J682  Terminal 50 power supply relay
J906  Starter relay 1
N225  Driving dynamics regulation switch valve 1
SB  Fuse panel B
SB2  Fuse 2 (on fuse panel B)
SC2  Fuse 2 (on fuse panel C)
SC4  Fuse 4 (on fuse panel C)
SB4  Fuse 4 (on fuse panel B)
SB6  Fuse 6 (on fuse panel B)
SB7  Fuse 7 (on fuse panel B)
SB25  Fuse 25 (on fuse panel B)
SB48  Fuse 48 (on fuse panel B)
SC  Fuse panel C
N225  Driving dynamics regulation switch valve 1
SB  Fuse panel B
SB2  Fuse 2 (on fuse panel B)
A217  Positive connection 8 (15a) (in instrument panel wiring harness)
B163  Positive connection 1 (15) (in interior wiring harness)
B278  Positive connection 2 (15a) (in main wiring harness)
*  E-Box high
*2  Only for vehicles with tire pressure monitoring

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

https://www.automotive-manuals.net/
Right rear ABS wheel speed sensor, Right front ABS wheel speed sensor, Left rear ABS wheel speed sensor, Left front ABS wheel speed sensor, Vacuum sensor, ABS control module

G44  Right rear ABS wheel speed sensor
G45  Right front ABS wheel speed sensor
G46  Left rear ABS wheel speed sensor
G47  Left front ABS wheel speed sensor
G201 Brake pressure sensor 1
G608 Vacuum sensor
J104  ABS control module, in the engine compartment, right
N133  Right rear ABS inlet valve
N134  Left rear ABS inlet valve
N135  Right rear ABS outlet valve
N136  Left rear ABS outlet valve
N226 Driving dynamics regulation switch valve 2
T4bn  4-pin connector
T47c  47-pin connector
V64  ABS hydraulic pump

43  Ground connection on A-pillar, lower right

(B510 Right rear speed sensor connection 1 (in interior wiring harness)
(B511 Right rear speed sensor connection 2 (in interior wiring harness)
(B512 Left rear speed sensor connection 1 (in interior wiring harness)
(B513 Left rear speed sensor connection 2 (in interior wiring harness)
(D184 Left front speed sensor positive connection (in engine compartment wiring harness)
(D185 Left front speed sensor negative connection (in engine compartment wiring harness)

* Only for vehicles with a hydraulic brake booster

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

https://www.automotive-manuals.net/
ASR/ESP button, Tire pressure monitoring display button, ABS control module

- E256 ASR/ESP button
- E492 Tire pressure monitoring display button
- G200 Transverse acceleration sensor
- G202 Rotation rate sensor
- J104 ABS control module, in the engine compartment, right
- L76 Push button illumination bulb
- N99 Right front ABS inlet valve
- N100 Right front ABS outlet valve
- N101 Left front ABS inlet valve
- N102 Left front ABS outlet valve
- N227 Driving dynamics regulation high pressure switch valve 1
- N228 Driving dynamics regulation high pressure switch valve 2
- T6ad 6-pin connector
- T6ak 6-pin connector
- T47c 47-pin connector

* Only for vehicles without Start/Stop system
*2 Only for vehicles with tire pressure monitoring
*3 Only for vehicles with Start/Stop system

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

**References:**
- ASR/ESP button, Tire pressure monitoring display button, ABS control module
- G200 Transverse acceleration sensor
- G202 Rotation rate sensor
- J104 ABS control module, in the engine compartment, right
- L76 Push button illumination bulb
- N99 Right front ABS inlet valve
- N100 Right front ABS outlet valve
- N101 Left front ABS inlet valve
- N102 Left front ABS outlet valve
- N227 Driving dynamics regulation high pressure switch valve 1
- N228 Driving dynamics regulation high pressure switch valve 2
- T6ad 6-pin connector
- T6ak 6-pin connector
- T47c 47-pin connector

**Notes:**
- Only for vehicles without Start/Stop system
- Only for vehicles with tire pressure monitoring
- Only for vehicles with Start/Stop system

**Links:**
- https://www.automotive-manuals.net/
Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J623 Engine control module
- T4bc 4-pin connector
- T16 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

- B131 Connection 54 (in interior wiring harness)
- B340 Connection 58d (in main wiring harness) 1
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with tire pressure monitoring

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

https://www.automotive-manuals.net/
Brake fluid level warning switch, Left front brake pad wear sensor, Warning buzzer and tone, Instrument cluster control module, ABS indicator lamp, Brake system indicator lamp, ASR/ESP indicator lamp, Tire pressure monitoring display indicator lamp

F9 Parking brake indicator lamp switch
F34 Brake fluid level warning switch
G34 Left front brake pad wear sensor
H3 Warning buzzer and tone
J285 Instrument cluster control module
K47 ABS indicator lamp
K118 Brake system indicator lamp
K155 ASR/ESP indicator lamp
K220 Tire pressure monitoring display indicator lamp
T32 32-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
376 Ground connection 11 (in main wiring harness)
381 Ground connection 16 (in main wiring harness)
389 Ground connection 24 (in main wiring harness)
605 Ground connection on upper steering column
655 Ground connection on left headlamp
B379 Brake wear indicator connection 1 (in main wiring harness)
B380 Brake wear indicator connection 2 (in main wiring harness)

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

Only for vehicles with brake pad wear indicator
Automatic transmission - DSG 02E, (G1A)
from November 2009
Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 14 (on fuse panel C)

- A Battery
- B Starter
- C Generator
- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SA1 Fuse 1 (on fuse panel A)
- SC2 Fuse 2 (on fuse panel C)
- SA5 Fuse 5 (on fuse panel A)
- SC14 Fuse 14 (on fuse panel C)

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- B315 Positive connection 1 (30a) (in main wiring harness)

* Only for vehicles with a generator (140 A)
*2 Only for vehicles with 90 A/120 A generator
*3 Only for vehicles without an A/C system
*4 Only for vehicles with A/C system

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

https://www.automotive-manuals.net/
Transmission input speed sensor, Clutch oil temperature sensor, DSG transmission Mechatronic, Solenoid valve 1, Solenoid valve 2, Solenoid valve 4, Solenoid valve 5, Fuse panel B

- **G182**: Transmission input speed sensor
- **G509**: Clutch oil temperature sensor
- **J743**: DSG transmission Mechatronic, in the transmission
- **N88**: Solenoid valve 1
- **N89**: Solenoid valve 2
- **N90**: Solenoid valve 3
- **N91**: Solenoid valve 4
- **N92**: Solenoid valve 5
- **SB**: Fuse panel B
- **SB5**: Fuse 5 (on fuse panel B)
- **SB7**: Fuse 7 (on fuse panel B)
- **T4z**: 4-pin connector
- **T20e**: 20-pin connector
- **T40**: 40-pin connector
- **47**: Ground connection in right front footwell
- **201**: Ground connection 5 (in engine compartment wiring harness)
- **366**: Ground connection 1 (in main wiring harness)
- **388**: Ground connection 23 (in main wiring harness)
- **508**: Terminal 30 threaded connection (on E-box)
- **655**: Ground connection on left headlamp
- **A76**: KS-diagnostic lead connection (in instrument panel wiring harness)
- **B278**: Positive connection 2 (15a) (in main wiring harness)
- **D104**: Positive connection 2 (30a) (in engine compartment wiring harness)

* Only for vehicles with Start/Stop system
* Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
Selector lever, Selector lever park position lock switch, Automatic transmission hydraulic pressure sensor 1, Automatic transmission hydraulic pressure sensor 2, Gear position distance sensor 1, DSG transmission Mechatronic, Shift lock solenoid, Automatic transmission pressure regulating valve 1, Automatic transmission pressure regulating valve 2, Automatic transmission pressure regulating valve 3, Automatic transmission pressure regulating valve 4, Transmission range display

- E313: Selector lever
- F319: Selector lever park position lock switch
- G193: Automatic transmission hydraulic pressure sensor 1
- G194: Automatic transmission hydraulic pressure sensor 2
- G487: Gear position distance sensor 1
- J527: Steering column electronics control module
- J743: DSG transmission Mechatronic, in the transmission
- J764: Electronic steering column lock control module
- N110: Shift lock solenoid
- N215: Automatic transmission pressure regulating valve 1
- N216: Automatic transmission pressure regulating valve 2
- N217: Automatic transmission pressure regulating valve 3
- N218: Automatic transmission pressure regulating valve 4
- T2p: Double connector, under the selector lever
- T10s: 10-pin connector, under the selector lever
- T10v: 10-pin connector, under the selector lever
- T16r: 16-pin connector
- T16s: 16-pin connector
- T20d: 20-pin connector
- Y6: Transmission range display

**Notations:**
- * through April 2010
- *2: Only for vehicles without an A/C system
- *3: Only for vehicles with an A/C system
- *4: from May 2010
- *5: Only for vehicles without access/start authorization system
- *6: only for vehicles with access/start authorization system

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

For more details, visit [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Selector lever, Transmission fluid temperature sensor, Transmission output speed sensor, Transmission output speed sensor 2, Gear position distance sensor 2, Gear position distance sensor 3, Gear position distance sensor 4, Driveshaft speed sensor 1, Driveshaft speed sensor 2, Temperature sensor in control module, DSG transmission Mechatronic, Automatic transmission pressure regulating valve 5, Automatic transmission pressure regulating valve 6, Transmission range display

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Selector lever
G93 Transmission fluid temperature sensor
G195 Transmission output speed sensor
G196 Transmission output speed sensor 2
G488 Gear position distance sensor 2
G489 Gear position distance sensor 3
G490 Gear position distance sensor 4
G501 Driveshaft speed sensor 1
G502 Driveshaft speed sensor 2
G510 Temperature sensor in control module
J623 Engine control module
J743 DSG transmission Mechatronic, in the transmission
N233 Automatic transmission pressure regulating valve 5
N371 Automatic transmission pressure regulating valve 6
T10s 10-pin connector, under the selector lever
T10v 10-pin connector, under the selector lever
T20e 20-pin connector
T94 94-pin connector
Y6 Transmission range display

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Connection 25 (in engine compartment wiring harness)
* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system
*3 Only for vehicles with a diesel engine

---

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

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https://www.automotive-manuals.net/
Multifunction indicator, Instrument cluster control module,
Data bus on board diagnostic interface

- **J119**: Multifunction indicator
- **J285**: Instrument cluster control module
- **J519**: Vehicle electrical control module system
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console

- **T16**: 16-pin connector
- **T20**: 20-pin connector
- **T32**: 32-pin connector
- **T52b**: 52-pin connector (only for vehicles without Start/Stop system)
- **T52c**: 52-pin connector (only for vehicles with Start/Stop system)
- **U31**: Diagnostic connection

- **384**: Ground connection 19 (in main wiring harness)
- **B340**: Connection 58d (in main wiring harness) 1
- **B383**: Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390**: Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398**: Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407**: Comfort system CAN bus low connection 2 (in main wiring harness)

- Diagnostic connector

*2 Only for vehicles with Start/Stop system
*3 Only for vehicles without Start/Stop system

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<td>or/gn</td>
</tr>
</tbody>
</table>

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

https://www.automotive-manuals.net/
Parking distance control without parallel parking assistance (park assist), (7X5), (7X6)
from November 2009
Terminal 15 power supply relay, Parking aid control module, Data bus on board diagnostic interface, Fuse 4 (on fuse panel C), Fuse 7 (on fuse panel B)

A Battery
B Starter
J329 Terminal 15 power supply relay
J446 Parking aid control module, behind the instrument panel, left
J533 Data bus on board diagnostic interface, in the left footwell, near the center console
J682 Terminal 50 power supply relay
SC4 Fuse 4 (on fuse panel C)
SB7 Fuse 7 (on fuse panel B)
T16m 16-pin connector
T20 20-pin connector
T40 40-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
605 Ground connection on upper steering column
A217 Positive connection 8 (15a) (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)
B383 Powertrain CAN bus high connection 1 (in main wiring harness)
B390 Powertrain CAN bus low connection 1 (in main wiring harness)

* Refer to applicable engine wiring diagram

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
gi = yellow
or = orange
rs = pink
Left rear parking aid sensor, Left rear center parking aid sensor, Right rear center parking aid sensor, Right rear parking aid sensor, Rear parking aid warning buzzer, Parking aid control module

G203  Left rear parking aid sensor
G204  Left rear center parking aid sensor
G205  Right rear center parking aid sensor
G206  Right rear parking aid sensor
H15   Rear parking aid warning buzzer
J446  Parking aid control module, behind the instrument panel, left
T3ba  3-pin connector
T3bb  3-pin connector
T3bc  3-pin connector
T3bd  3-pin connector
T8l   8-pin connector, behind the right rear bumper
T12n  12-pin connector
T16m  16-pin connector
X68   Parking aid connection (in rear bumper wiring harness)

352   Parking aid ground connection (in rear bumper wiring harness)

ws  = white
sw  = black
ro  = red
rt  = red
br  = brown
gn  = green
bl  = blue
gr  = grey
li  = lilac
vi  = lilac
gy  = yellow
or  = orange
rs  = pink
Right front parking aid sensor, Right front center parking aid sensor, Left front center parking aid sensor, Left front parking aid sensor, Front parking aid warning buzzer, Parking aid control module

G252 Right front parking aid sensor
G253 Right front center parking aid sensor
G254 Left front center parking aid sensor
G255 Left front parking aid sensor
H22 Front parking aid warning buzzer
J446 Parking aid control module, behind the instrument panel, left
T3bi 3-pin connector
T3bj 3-pin connector
T3bk 3-pin connector
T3bl 3-pin connector
T8w 8-pin connector, near the left headlamp
T12v 12-pin connector

348 Parking aid ground connection (in front bumper wiring harness)
X65 Parking aid connection (in front bumper wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Parking aid button, Parking aid control module

- **E266** Parking aid button
- **J446** Parking aid control module, behind the instrument panel, left
- **J519** Vehicle electrical control module system
- **K136** Parking aid indicator lamp
- **L76** Push button illumination bulb
- **T6au** 6-pin connector
- **T16m** 16-pin connector
- **T52b** 52-pin connector

- **47** Ground connection in right front footwell
- **366** Ground connection 1 (in main wiring harness)
- **388** Ground connection 23 (in main wiring harness)
- **394** Ground connection 29 (in main wiring harness)
- **B340** Connection 58d (in main wiring harness) 1

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Parking distance control, with park assist
from November 2009

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Parallel parking assistance control module, Fuse 4 (on fuse panel C), Fuse 7 (on fuse panel B)

- A Battery
- B Starter
- J329 Terminal 15 power supply relay
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- J791 Parallel parking assistance control module, behind the instrument panel, left
- J906 Starter relay 1
- SC4 Fuse 4 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- T16m 16-pin connector
- T40 40-pin connector
- T52b 52-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Left rear parking aid sensor, Left rear center parking aid sensor, Right rear center parking aid sensor, Right rear parking aid sensor, Rear parking aid warning buzzer, Parallel parking assistance control module

- G203 Left rear parking aid sensor
- G204 Left rear center parking aid sensor
- G205 Right rear center parking aid sensor
- G206 Right rear parking aid sensor
- H15 Rear parking aid warning buzzer
- J519 Vehicle electrical control module system
- J791 Parallel parking assistance control module, behind the instrument panel, left
- T3ba 3-pin connector
- T3bb 3-pin connector
- T3bc 3-pin connector
- T3bd 3-pin connector
- T8l 8-pin connector, behind the right rear bumper
- T12n 12-pin connector
- T16m 16-pin connector
- 352 Parking aid ground connection (in rear bumper wiring harness)
- X68 Parking aid connection (in rear bumper wiring harness)

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

Wiring Diagram No. 77 / 3

https://www.automotive-manuals.net/
Parking aid button, Parallel parking assistance button, Data bus on board diagnostic interface, Parallel parking assistance control module

E266 Parking aid button
E581 Parallel parking assistance button
J519 Vehicle electrical control module system
J533 Data bus on board diagnostic interface, in the left footwell, near the center console
J791 Parallel parking assistance control module, behind the instrument panel, left
K136 Parking aid indicator lamp
K241 Parallel parking assistance indicator lamp
L76 Push button illumination bulb
T6au 6-pin connector
T6av 6-pin connector
T16m 16-pin connector
T20 20-pin connector
T52b 52-pin connector

- Ground connection 23 (in main wiring harness)
- Ground connection 29 (in main wiring harness)
- Connection 58d (in main wiring harness) 1
- Powertrain CAN bus high connection 1 (in main wiring harness)
- Powertrain CAN bus low connection 1 (in main wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Left front center parking aid sensor, Left front parking aid sensor, Left front parallel parking assistance sensor, Front parking aid warning buzzer, Parallel parking assistance control module

G254  Left front center parking aid sensor
G255  Left front parking aid sensor
G568  Left front parallel parking assistance sensor
H22   Front parking aid warning buzzer
J519  Vehicle electrical control module system
J791  Parallel parking assistance control module, behind the instrument panel, left
T3bh  3-pin connector
T3bi  3-pin connector
T3bj  3-pin connector
T8w   8-pin connector, near the left headlamp
T12v  12-pin connector

47    Ground connection in right front footwell
348   Parking aid ground connection (in front bumper wiring harness)
366   Ground connection 1 (in main wiring harness)
388   Ground connection 23 (in main wiring harness)
X65   Parking aid connection (in front bumper wiring harness)

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Right front parking aid sensor, Right front center parking aid sensor, Right front parallel parking assistance sensor, Parallel parking assistance control module

- G252 Right front parking aid sensor
- G253 Right front center parking aid sensor
- G569 Right front parallel parking assistance sensor
- J519 Vehicle electrical control module system
- J791 Parallel parking assistance control module, behind the instrument panel, left
- T3bk 3-pin connector
- T3bl 3-pin connector
- T3bm 3-pin connector
- T8w 8-pin connector, near the left headlamp
- T12v 12-pin connector

- 348 Parking aid ground connection (in front bumper wiring harness)
- X65 Parking aid connection (in front bumper wiring harness)

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

https://www.automotive-manuals.net/
Power steering, electromechanical, (1N3),(QZ0)
from September 2009
Terminal 15 power supply relay, Power steering control module, Fuse 2 (on fuse panel C), Fuse 2 (on fuse panel A), Fuse 7 (on fuse panel B), Electromechanical power steering motor

- Battery (A)
- Starter (B)
- Terminal 15 power supply relay (J329)
- Power steering control module, on the front axle support (J500)
- Terminal 50 power supply relay (J682)
- Starter relay 1 (J906)
- Fuse 2 (on fuse panel C) (SC2)
- Fuse 2 (on fuse panel A) (SA2)
- Fuse 7 (on fuse panel B) (SB7)
- Double connector (T2a)
- 3-pin connector (T3bq)
- 6-pin connector, near the left headlamp (T6z)
- 40-pin connector (T40)
- Electromechanical power steering motor (V187)
- Ground connection on A-pillar, lower left (44)
- Ground connection 2 (in main wiring harness) (367)
- Terminal 30 threaded connection (on E-box) (508)
- Ground connection on upper steering column (605)
- Transmission/engine ground connection (652)
- Positive connection 1 (15) (in interior wiring harness) (B163)
- Positive connection 2 (15a) (in main wiring harness) (B278)

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Steering angle sensor, Steering torque sensor, Power steering control module, Data bus on board diagnostic interface

- G85  Steering angle sensor
- G269  Steering torque sensor
- J500  Power steering control module, on the front axle support
- J519  Vehicle electrical control module system
- J533  Data bus on board diagnostic interface, in the left footwell, near the center console
- T3bq  3-pin connector
- T5g   5-pin connector
- T5u   5-pin connector
- T6z   6-pin connector, near the left headlamp
- T20   20-pin connector
- T52b  52-pin connector
- T52c  52-pin connector
- B383  Powertrain CAN bus high connection 1 (in main wiring harness)
- B390  Powertrain CAN bus low connection 1 (in main wiring harness)
- B397  Comfort system CAN bus high connection 1 (in main wiring harness)
- B398  Comfort system CAN bus high connection 2 (in main wiring harness)
- B406  Comfort system CAN bus low connection 1 (in main wiring harness)
- B407  Comfort system CAN bus low connection 2 (in main wiring harness)

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

https://www.automotive-manuals.net/
Instrument cluster control module, Data bus on board diagnostic interface, Electromechanical power steering indicator lamp

- **J285** Instrument cluster control module
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **K161** Electromechanical power steering indicator lamp
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T32** 32-pin connector
- **U31** Diagnostic connection

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<td>or = orange</td>
</tr>
<tr>
<td>rs = pink</td>
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https://www.automotive-manuals.net/
Climatic, (KH6),(9AP)
from November 2009
Load reduction relay, Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- **A** Battery
- **B** Starter
- **J59** Load reduction relay
- **J329** Terminal 15 power supply relay
- **J485** Auxiliary heater operation relay
- **J682** Terminal 50 power supply relay
- **J906** Starter relay 1
- **SA5** Fuse 5 (on fuse panel A)
- **SB** Fuse panel B
- **SC** Fuse panel C
- **SC4** Fuse 4 (on fuse panel C)
- **SB7** Fuse 7 (on fuse panel B)
- **SC14** Fuse 14 (on fuse panel C)
- **SB30** Fuse 30 (on fuse panel B)
- **SC40** Fuse 40 (on fuse panel C)
- **T40** 40-pin connector

**Ground connection on A-pillar, lower left**

**Ground connection 2 (in main wiring harness)**

**Terminal 30 threaded connection (on E-box)**

**Ground connection on upper steering column**

**Positive connection 8 (15a) (in instrument panel wiring harness)**

**Connection 75a (in interior wiring harness)**

**Positive connection 1 (15) (in interior wiring harness)**

**Positive connection 1 (30) (in interior wiring harness)**

**Positive connection 1 (30a) (in main wiring harness)**

- *Only for vehicles without auxiliary water heater*
- *2 Only for vehicles with auxiliary water heater*

**Color Codes**

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
High pressure sensor, Center vent temperature sensor, A/C control module, A/C compressor regulator valve, Recirculation door motor

- E30 A/C switch
- E159 Fresh air/recirculation door switch
- E230 Rear window defogger button
- G65 High pressure sensor
- G143 Recirculation door motor position sensor
- G191 Center vent temperature sensor
- G267 Temperature selector knob potentiometer
- J301 A/C control module, in the instrument panel, center
- J485 Auxiliary heater operation relay
- K10 Rear window defogger indicator lamp
- K84 A/C system indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- L16 Fresh air control illumination bulb

N280 A/C compressor regulator valve
- T3c 3-pin connector
- T4t 4-pin connector, near the starter
- T5gi 5-pin connector
- T6k 6-pin connector
- T10k 10-pin connector, behind the instrument panel, right
- T16e 16-pin connector
- T20p 20-pin connector
- V113 Recirculation door motor

- 376 Ground connection 11 (in main wiring harness)
- 381 Ground connection 16 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 655 Ground connection on left headlamp

* Only for vehicles without auxiliary water heater
*2 Only for vehicles with auxiliary water heater
*3 Through October 2010

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

https://www.automotive-manuals.net/
Footwell vent temperature sensor, Evaporator vent temperature sensor, A/C control module, Temperature control door motor, Air distribution door motor

- G92: Temperature regulator door motor position sensor
- G192: Footwell vent temperature sensor
- G263: Evaporator vent temperature sensor
- G645: Air distribution door motor position sensor
- J301: A/C control module, in the instrument panel, center
- T6aj: 6-pin connector
- T6m: 6-pin connector
- T16e: 16-pin connector
- V68: Temperature control door motor
- V428: Air distribution door motor

- L2: Connection (in A/C system wiring harness)
- L10: Connection 2 (in A/C system wiring harness)

* Through October 2010

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

https://www.automotive-manuals.net/
Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower

- E9 Fresh air blower switch
- E94 Heated driver seat adjuster
- E95 Heated front passenger seat adjuster
- J13 Fresh air blower relay
- J301 A/C control module, in the instrument panel, center
- J774 Front seat heating control module
- N24 Fresh air blower series resistor with fuse
- T4f 4-pin connector
- T5gi 5-pin connector
- T10a 10-pin connector, under the driver seat
- T10k 10-pin connector, behind the instrument panel, right
- T20p 20-pin connector
- V2 Fresh air blower

- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 602 Ground connection in left front footwell
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)
- M45 Connection 5 (in driver seat wiring harness)
- O15 Connection 4 (in heated seats wiring harness)

* Only for vehicles without Start/Stop system
*2 Through October 2010
*3 Only for vehicles with auxiliary water heater
*4 Only for vehicles with Start/Stop system
*5 Only for vehicles with an auxiliary heater
*6 from November 2010

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

https://www.automotive-manuals.net/
Vehicle electrical control module system, Data bus on board diagnostic interface

- J519: Vehicle electrical control module system
- J533: Data bus on board diagnostic interface, in the left footwell, near the center console
- T20: 20-pin connector
- T52a: 52-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector
- 366: Ground connection 1 (in main wiring harness)
- B397: Comfort system CAN bus high connection 1 (in main wiring harness)
- B398: Comfort system CAN bus high connection 2 (in main wiring harness)
- B406: Comfort system CAN bus low connection 1 (in main wiring harness)
- B407: Comfort system CAN bus low connection 2 (in main wiring harness)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Climatronic, (9AK)
from November 2009
Climatronic control module, Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 7 (on fuse panel B), Fuse 14 (on fuse panel C), Fuse 22 (on fuse panel C)

A Battery
B Starter
C Generator
J255 Climatronic control module, behind the center console
J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
J906 Starter relay 1
SA1 Fuse 1 (on fuse panel A)
SC4 Fuse 4 (on fuse panel C)
SA5 Fuse 5 (on fuse panel A)
SB7 Fuse 7 (on fuse panel B)
SC14 Fuse 14 (on fuse panel C)
SC22 Fuse 22 (on fuse panel C)
T20q 20-pin connector
T40 40-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
387 Ground connection 22 (in main wiring harness)
508 Terminal 30 threaded connection (on E-box)
605 Ground connection on upper steering column
A217 Positive connection 8 (15a) (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B315 Positive connection 1 (30a) (in main wiring harness)

* Only for vehicles with 90 A/120 A generator
*2 Only for vehicles with a generator (140 A)
High pressure sensor, Air quality sensor, Climatronic control module, Left temperature control door motor

- G65  High pressure sensor
- G220  Left temperature control door motor
- G238  Air quality sensor
- G261  Left footwell vent temperature sensor
- G262  Right footwell vent temperature sensor
- G308  Evaporator temperature sensor
- J255  Climatronic control module, behind the center console
- T3as  3-pin connector
- T3c  3-pin connector
- T6p  6-pin connector
- T16c  16-pin connector
- T16d  16-pin connector
- T20q  20-pin connector
- V158  Left temperature control door motor

- 47  Ground connection in right front footwell
- 366  Ground connection 1 (in main wiring harness)
- 388  Ground connection 23 (in main wiring harness)
- 433  Sensor ground connection 2 (in Climatronic wiring harness)
- L31  Connection (5 Volt) (in A/C system wiring harness)

* Only for vehicles without Start/Stop system
*2 Only for vehicles with Start/Stop system

- ws  = white
- sw  = black
- ro  = red
- rt  = red
- br  = brown
- gn  = green
- bl  = blue
- gr  = grey
- li  = lilac
- vi  = lilac
- ge  = yellow
- or  = orange
- rs  = pink
Climatronic control module, Right temperature control door motor, Fresh air/recirculating air/back pressure door motor, Front air distribution door motor

- G221 Right temperature door potentiometer/actuator
- G642 Front air distribution door motor position sensor
- G644 Fresh air/recirculating air/back pressure door motor position sensor
- J255 Climatronic control module, behind the center console
- T6n 6-pin connector
- T6r 6-pin connector
- T6u 6-pin connector
- T16c 16-pin connector
- T16d 16-pin connector
- V159 Right temperature control door motor
- V425 Fresh air/recirculating air/back pressure door motor
- V426 Front air distribution door motor

- 433 Sensor ground connection 2 (in Climatronic wiring harness)
- L31 Connection (5 Volt) (in A/C system wiring harness)
Sunlight photo sensor, Sunlight photo sensor 2, Left vent temperature sensor, Right vent temperature sensor, Climatronic control module, Defroster door motor

G107  Sunlight photo sensor
G134  Sunlight photo sensor 2
G135  Defroster door motor position sensor
G150  Left vent temperature sensor
G151  Right vent temperature sensor
J255  Climatronic control module, behind the center console
N280  A/C compressor regulator valve
T4cw  4-pin connector
T4t  4-pin connector
T6q  6-pin connector
T16c  16-pin connector
T16d  16-pin connector
T20q  20-pin connector
V107  Defroster door motor

- 244  Sensor ground connection (in Climatronic wiring harness)
- 376  Ground connection 11 (in main wiring harness)
- 381  Ground connection 16 (in main wiring harness)
- 433  Sensor ground connection 2 (in Climatronic wiring harness)
- 655  Ground connection on left headlamp
- 433  Connection (5 Volt) (in A/C system wiring harness)
Fresh air blower control module, Climatronic control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Fresh air blower

- **J126**: Fresh air blower control module
- **J255**: Climatronic control module, behind the center console
- **J519**: Vehicle electrical control module system
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console
- **J774**: Front seat heating control module

**Connectors:****
- **T6t**: 6-pin connector
- **T10a**: 10-pin connector, under the driver seat
- **T10k**: 10-pin connector
- **T16d**: 16-pin connector
- **T20**: 20-pin connector
- **T20q**: 20-pin connector
- **T52b**: 52-pin connector
- **T52c**: 52-pin connector
- **V2**: Fresh air blower

**Ground Connections:****
- **602**: Ground connection in left front footwell

**Comfort System CAN Bus Connections:****
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398**: Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407**: Comfort system CAN bus low connection 2 (in main wiring harness)
- **M45**: Connection 5 (in driver seat wiring harness)
- **O15**: Connection 4 (in heated seats wiring harness)

* Only for vehicles with an auxiliary heater

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

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https://www.automotive-manuals.net/
Auxiliary heater (PTC), diesel engine , (7E6)
from November 2009
Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower

- **E9**: Fresh air blower switch
- **J13**: Fresh air blower relay
- **J301**: A/C control module
- **J485**: Auxiliary heater operation relay
- **J519**: Vehicle electrical control module system
- **L16**: Fresh air control illumination bulb
- **N24**: Fresh air blower series resistor with fuse
- **SC33**: Fuse 33 (on fuse panel C)
- **T4f**: 4-pin connector
- **T5gi**: 5-pin connector
- **T9**: 9-pin connector
- **T10k**: 10-pin connector, behind the instrument panel, right
- **T20p**: 20-pin connector
- **T52a**: 52-pin connector
- **V2**: Fresh air blower

- **47**: Ground connection in right front footwell
- **366**: Ground connection 1 (in main wiring harness)
- **388**: Ground connection 23 (in main wiring harness)
- **602**: Ground connection in left front footwell
- **L77**: Connection (in fresh air blower wiring harness)
- **L78**: Connection 1 (in fresh air blower wiring harness)

* Only for vehicles without Start/Stop system
*2 Only for vehicles with auxiliary water heater
*3 Only for vehicles without auxiliary water heater
*4 Only for vehicles without an A/C system
*5 from November 2011
*6 Only for vehicles with Start/Stop system
*7 from November 2010
*8 Through October 2010

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**Ground Connections**

- **0.5 / 0.35**: Ground connection 0.5 / 0.35
- **4.0**: Ground connection 4.0
- **1.0**: Ground connection 1.0

**Connections**

- **L77**: Connection (in fresh air blower wiring harness)
- **L78**: Connection 1 (in fresh air blower wiring harness)

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**Color Codes**

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

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Wiring Diagram No. 82 / 3

[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Washer system, headlamps, (8X1)
from May 2010
Headlamp washer relay, Headlamp washer pump

A  Battery
B  Starter
C  Generator
J39  Headlamp washer relay
J519  Vehicle electrical control module system
SA1  Fuse 1 (on fuse panel A)
SB29  Fuse 29 (on fuse panel B)
SC36  Fuse 36 (on fuse panel C)
SB53  Fuse 53 (on fuse panel B)
T40  40-pin connector
T52b  52-pin connector
T52c  52-pin connector
V11  Headlamp washer pump

508  Terminal 30 threaded connection (on E-box)
656  Ground connection on right headlamp
A98  Positive connection 4 (30) (in instrument panel wiring harness)
B111  Positive connection 1 (30a) (in interior wiring harness)
B397  Comfort system CAN bus high connection 1 (in main wiring harness)
B398  Comfort system CAN bus high connection 2 (in main wiring harness)
B406  Comfort system CAN bus low connection 1 (in main wiring harness)
B407  Comfort system CAN bus low connection 2 (in main wiring harness)
*  E-Box low
*2  E-Box high
*3  from November 2010
*4  Only for vehicles with 90 A/120 A generator
*5  Only for vehicles with a generator (140 A)

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

https://www.automotive-manuals.net/
Windshield wiper intermittent mode switch, Rear window wiper switch, Windshield and headlamp washer pump switch, Windshield washer fluid level sensor, Instrument cluster control module, Steering column electronics control module, Data bus on board diagnostic interface, Windshield washer fluid level indicator lamp

E22  Windshield wiper intermittent mode switch
E34  Rear window wiper switch
E44  Windshield and headlamp washer pump switch
G33  Windshield washer fluid level sensor
J285 Instrument cluster control module
J527  Steering column electronics control module
J533  Data bus on board diagnostic interface, in the left footwell, near the center console
K37  Windshield washer fluid level indicator lamp
T6bk  6-pin connector
T16r  16-pin connector
T20  20-pin connector
T32  32-pin connector

044  Ground connection on A-pillar, lower left
0367 Ground connection 2 (in main wiring harness)
0410 Sensor ground connection 1 (in main wiring harness)
0605 Ground connection on upper steering column
0B397 Comfort system CAN bus high connection 1 (in main wiring harness)
0B406 Comfort system CAN bus low connection 1 (in main wiring harness)

ws = white  sw = black  ro = red  rt = red  br = brown  gn = green  bl = blue  gr = grey  li = lilac  vi = lilac  ge = yellow  or = orange  rs = pink
2.0L gasoline engine, CBFA
from November 2009
Terminal 50 power supply relay, Starter relay 1, Starter relay 2

- J682: Terminal 50 power supply relay
- J906: Starter relay 1
- J907: Starter relay 2

- 508: Terminal 30 threaded connection (on E-box)
- B163: Positive connection 1 (15) (in interior wiring harness)
- B278: Positive connection 2 (15a) (in main wiring harness)
- B660: Diagnostic terminal 50 connection (in main wiring harness)

* only for vehicles with access/start authorization system
*2 Only for vehicles without access/start authorization system

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse 5 (on fuse panel A), Fuse panel B

- J329  Terminal 15 power supply relay
- SC1 Fuse 1 (on fuse panel C)
- SC2 Fuse 2 (on fuse panel C)
- SA5 Fuse 5 (on fuse panel A)
- SB Fuse panel B
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- SC27 Fuse 27 (on fuse panel C)
- T40  40-pin connector

- 508 Terminal 30 threaded connection (on E-box)
- A192 Positive connection 3 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)

* Through November 2011

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

https://www.automotive-manuals.net/
Fuel level sensor, Transfer fuel pump, Secondary air injection pump relay, Fuel pump control module, Fuse panel B, Secondary air injection pump motor

- **G** Fuel level sensor
- **G6** Transfer fuel pump
- **J299** Secondary air injection pump relay
- **J538** Fuel pump control module
- **SB** Fuse panel B
- **SB15** Fuse 15 (on fuse panel B)
- **SB20** Fuse 20 (on fuse panel B)
- **SB21** Fuse 21 (on fuse panel B)
- **SB23** Fuse 23 (on fuse panel B)
- **SB27** Fuse 27 (on fuse panel B)
- **T5b** 5-pin connector
- **T10n** 10-pin connector
- **T40** 40-pin connector
- **V101** Secondary air injection pump motor

- **655** Ground connection on left headlamp
- **B485** Connection 21 (in main wiring harness)
- **D183** Connection 4 (87a) (in engine compartment wiring harness)

* through April 2010
*2 from May 2010

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

**Links:**
- [Golf Wiring Diagram](https://www.automotive-manuals.net/)
Motronic engine control module power supply relay, Fuse panel B

- J271 Motronic engine control module power supply relay
- SB Fuse panel B
- SB2 Fuse 2 (on fuse panel B)
- SB10 Fuse 10 (on fuse panel B)
- SB13 Fuse 13 (on fuse panel B)
- SB14 Fuse 14 (on fuse panel B)
- SB22 Fuse 22 (on fuse panel B)
- SB24 Fuse 24 (on fuse panel B)
- T14a 14-pin connector, near the battery
- T40 40-pin connector

- 383 Ground connection 18 (in main wiring harness)
- 682 Ground connection 2 in right rear side panel
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)

* Only for vehicles with a manual transmission
*2 Only for vehicles with automatic transmission
*3 from November 2010

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

https://www.automotive-manuals.net/
Steering column electronics control module, Engine control module

- J527 Steering column electronics control module
- J623 Engine control module, in the center plenum chamber
- J764 Electronic steering column lock control module
- T16r 16-pin connector
- T16s 16-pin connector
- T20d 20-pin connector
- T94 94-pin connector

- D182 Connection 3 (87a) (in engine compartment wiring harness)
  * through April 2010
  *2 from May 2010
  *3 Only for vehicles without access/start authorization system
  *4 only for vehicles with access/start authorization system

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Engine coolant temperature sensor, Coolant circulation pump relay, Engine control module, After-run coolant pump

- **G62**: Engine coolant temperature sensor
- **J151**: Coolant circulation pump relay
- **J623**: Engine control module, in the center plenum chamber
- **T4by**: 4-pin connector, in the engine compartment, left
- **T60**: 60-pin connector
- **T94**: 94-pin connector
- **V51**: After-run coolant pump

- **131**: Ground connection 2 (in engine compartment wiring harness)
- **607**: Ground connection in plenum chamber, left

* Only for vehicles without access/start authorization system
*2 only for vehicles with access/start authorization system

**Legend:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plugs

- J623  Engine control module, in the center plenum chamber
- N70    Ignition coil 1 with power output stage
- N127   Ignition coil 2 with power output stage
- N291   Ignition coil 3 with power output stage
- N292   Ignition coil 4 with power output stage
- P      Spark plug connectors
- Q      Spark plugs
- T14a   14-pin connector, near the battery
- T60    60-pin connector

15     Ground connection on cylinder head
85     Ground connection 1 (in engine compartment wiring harness)
281    Ground connection 1 (in engine pre-wiring harness)
642    Electronic fan control ground connection
D206   Connection 87a (in engine pre-wiring harness) 4

Wiring Diagram

symbols:
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gn = grey
li = lilac
vi = lilac
g = yellow
or = orange
r = pink
Engine speed sensor, Throttle valve control module, Engine control module, Fuel pressure regulator valve

G28  Engine speed sensor
G186  EPC throttle drive
G187  EPC throttle drive angle sensor 1
G188  EPC throttle drive angle sensor 2
J338  Throttle valve control module
J623  Engine control module, in the center plenum chamber
J757  Engine component power supply relay
N276  Fuel pressure regulator valve
T6x  6-pin connector
T14a  14-pin connector, near the battery
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 = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Charge air pressure sensor, Camshaft position sensor, Knock sensor 1, Fuel pressure sensor, Intake manifold runner position sensor, Engine control module

- G31 Charge air pressure sensor
- G40 Camshaft position sensor
- G61 Knock sensor 1
- G247 Fuel pressure sensor
- G336 Intake manifold runner position sensor
- J623 Engine control module, in the center plenum chamber
- T3w 3-pin connector, on the engine, front
- T4ak 4-pin connector
- T6aq 6-pin connector, on the engine, front
- T14a 14-pin connector, near the battery
- T60 60-pin connector

- D101 Connection 1 (in engine compartment wiring harness)
- D103 Connection 3 (in engine compartment wiring harness)
- D107 Connection 5 (in engine compartment wiring harness)
- D123 Connection 21 (in engine compartment wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vi = lilac
gi = yellow
or = orange
rs = pink
Intake air temperature sensor, Intake manifold runner position sensor, Secondary air injection sensor 1, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector

G42 Intake air temperature sensor
G336 Intake manifold runner position sensor
G609 Secondary air injection sensor 1
J623 Engine control module, in the center plenum chamber
N30 Cylinder 1 fuel injector
N31 Cylinder 2 fuel injector
N32 Cylinder 3 fuel injector
N33 Cylinder 4 fuel injector
T6aq 6-pin connector, on the engine, front
TBI 8-pin connector, on the engine, front
T60 60-pin connector

Connection 1 (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module, Wastegate bypass regulator valve, EVAP canister purge regulator valve 1, Turbocharger recirculation valve

- G79: Accelerator pedal position sensor
- G185: Accelerator pedal position sensor 2
- J623: Engine control module, in the center plenum chamber
- N75: Wastegate bypass regulator valve
- N80: EVAP canister purge regulator valve 1
- N249: Turbocharger recirculation valve
- T4x: 4-pin connector, on the lower left coolant fan
- T6h: 6-pin connector
- T14a: 14-pin connector, near the battery
- T60: 60-pin connector
- T94: 94-pin connector

- D180: Connection 87a (in engine compartment wiring harness)
- D189: Connection 87a (in engine pre-wiring harness)

* Coolant fan connection

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

https://www.automotive-manuals.net/
Map controlled engine cooling thermostat, Mass airflow sensor, Engine coolant temperature sensor on radiator outlet, Engine control module, Secondary air injection solenoid valve, Camshaft adjustment valve 1, Intake manifold runner control valve

- F265 Map controlled engine cooling thermostat
- G70 Mass airflow sensor
- G83 Engine coolant temperature sensor on radiator outlet
- J623 Engine control module, in the center plenum chamber
- N112 Secondary air injection solenoid valve
- N205 Camshaft adjustment valve 1
- N316 Intake manifold runner control valve
- T5d 5-pin connector
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

(D189) Connection 87a (in engine pre-wiring harness)

* from May 2010

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

https://www.automotive-manuals.net/
Heated oxygen sensor, Radiator identification sensor,  
Engine control module, Leak detection pump

- **G39**: Heated oxygen sensor  
- **G611**: Radiator identification sensor  
- **J623**: Engine control module, in the center plenum chamber  
- **T6w**: 6-pin connector, in the engine compartment, rear  
- **T94**: 94-pin connector  
- **V144**: Leak detection pump  
- **Z19**: Oxygen sensor heater  

Connection 87a (in Motronic multiform fuel injection wiring harness)  

* through April 2010  
*2 from May 2010

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

---

https://www.automotive-manuals.net/
Brake lamp switch, Heated oxygen sensor 2, Oxygen sensor after catalytic converter, Engine control module

- Brake lamp switch
- G108 Heated oxygen sensor 2
- G130 Oxygen sensor after catalytic converter
- J623 Engine control module, in the center plenum chamber
- T4bc 4-pin connector
- T4bi 4-pin connector, near the oxygen sensor
- T4v 4-pin connector, near the oxygen sensor
- T94 94-pin connector
- Z28 Oxygen sensor 2 heater
- Z29 Heater for oxygen sensor 1 after catalytic converter

- 539 Ground connection 24 (in main wiring harness)
- (A216 Positive connection 2 (87a) (in instrument panel wiring harness)
- (B131 Connection 54 (in interior wiring harness)
- (E30 Connection 87a (in engine wiring harness)

* from November 2010
*2 Through November 2011
*3 Only for vehicles with automatic transmission
*4 Only for vehicles with a manual transmission

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

https://www.automotive-manuals.net/
Engine control module

J104    ABS control module
J519    Vehicle electrical control module system
J623    Engine control module, in the center plenum chamber
T26a    26-pin connector
T52b    52-pin connector
T52c    52-pin connector
T94     94-pin connector
*       through April 2010
*2      from May 2010
*3      Only for right-hand drive vehicles
*4      Only for left-hand drive vehicles
*5      only for vehicles with access/start authorization system
*6      Only for vehicles without access/start authorization system

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

https://www.automotive-manuals.net/
Multifunction indicator, Data bus on board diagnostic interface

- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **J743** DSG transmission Mechatronic

**Connections:**
- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398** Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407** Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for vehicles with a manual transmission
*2 through April 2010
*3 from May 2010
*4 from November 2010
*5 Only for vehicles with DSG transmission
*6 Only for right-hand drive vehicles
*7 Only for left-hand drive vehicles

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

More information at [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Oil pressure switch, Fuel gauge, Engine coolant temperature gauge, Engine coolant level sensor, Malfunction indicator lamp

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G32 Engine coolant level sensor
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- K3 Oil pressure indicator lamp
- K31 Cruise control indicator lamp
- K38 Oil level indicator lamp
- K83 Malfunction indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

Sensor ground connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
Multifunction steering wheel
from May 2010
Battery, Battery monitoring control module, Voltage stabilizer

A  Battery
B  Starter
C  Generator
J367  Battery monitoring control module
J519  Vehicle electrical control module system
J532  Voltage stabilizer
J682  Terminal 50 power supply relay
J907  Starter relay 2
T2bn  2-pin connector
T2c  2-pin connector, near the starter
T10ah  10-pin connector
T52a  52-pin connector
T52c  52-pin connector

1  Ground strap, battery to body
47  Ground connection in right front footwell
366  Ground connection 1 (in main wiring harness)
508  Terminal 30 threaded connection (on E-box)
B319  Positive connection 5 (30a) (in main wiring harness)
B320  Positive connection 6 (30a) (in main wiring harness)
B660  Diagnostic terminal 50 connection (in main wiring harness)
B698  LIN bus connection 3 (in main wiring harness)
*  Only for vehicles without Start/Stop system
*2  Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- J329 Terminal 15 power supply relay
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SC Fuse panel C
- SC2 Fuse 2 (on fuse panel C)
- SB3 Fuse 3 (on fuse panel B)
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- SB8 Fuse 8 (on fuse panel B)
- SB12 Fuse 12 (on fuse panel B)
- SC47 Fuse 47 (on fuse panel C)
- T40 40-pin connector
- T52b 52-pin connector

- 508 Terminal 30 threaded connection (on E-box)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- B320 Positive connection 6 (30a) (in main wiring harness)
- B321 Positive connection 7 (30a) (in main wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)

* Only for vehicles with Start/Stop system
*2 Only for vehicles without Start/Stop system

ws = white  sw = black  ro = red  rt = red  br = brown  gn = green  bl = blue  gr = grey  li = lilac  vi = lilac  ge = yellow  or = orange  rs = pink
Multifunction indicator, Instrument cluster control module,
Data bus on board diagnostic interface

- **H3** Warning buzzer and tone
- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **T16n** 16-pin connector, under the instrument panel, left
- **T20** 20-pin connector
- **T32** 32-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

<table>
<thead>
<tr>
<th>Port</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T16n</td>
<td>16-pin connector, under the instrument panel, left</td>
</tr>
<tr>
<td>T20</td>
<td>20-pin connector</td>
</tr>
<tr>
<td>T32</td>
<td>32-pin connector</td>
</tr>
<tr>
<td>T52a</td>
<td>52-pin connector</td>
</tr>
<tr>
<td>T52b</td>
<td>52-pin connector</td>
</tr>
<tr>
<td>T52c</td>
<td>52-pin connector</td>
</tr>
</tbody>
</table>

**Ground connections**

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

* Diagnostic connector
*2 Only for vehicles without Start/Stop system

Colors:
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Signal horn activation, Steering column electronics control module, Driver airbag igniter

- F350  Spiral spring
- H  Signal horn activation
- J29  Blocking diode
- J234  Airbag control module
- J519  Vehicle electrical control module system
- J527  Steering column electronics control module
- J608  Special purpose vehicle control module
- N95  Driver airbag igniter
- T4bx  4-pin connector, near the lower left A-pillar
- T4k  4-pin connector
- T12k  12-pin connector
- T16n  16-pin connector
- T16r  16-pin connector
- T50  50-pin connector
- T52c  52-pin connector
- T75  75-pin connector

- 367  Ground connection 2 (in main wiring harness)
- 605  Ground connection on upper steering column
- B240  Positive connection 2 (50) (in interior wiring harness)
- B276  Positive connection (50) (in main wiring harness)
- B465  Connection 1 (in main wiring harness)

* Refer to applicable airbag wiring diagram
*2 only for vehicles with driving assistance special equipment
*3 Only for vehicles with Start/Stop system
*4 Only for vehicles without Start/Stop system
*5 Only for vehicles without access/start authorization system
*6 only for vehicles without driving assistance special equipment
*7 only for vehicles without police special equipment
*8 Only for vehicles with US equipment
*9 Refer to applicable engine wiring diagram

ws = white
sw = black
ro = red
r = red
bl = brown
gr = grey
bl = blue
vi = lilac
ge = yellow
or = orange
rs = pink

---

https://www.automotive-manuals.net/
Turn signal switch, Headlamp dimmer/flasher switch, Cruise control switch, Cruise control -SET- button, Left multifunction buttons on steering wheel, tiptronic downshift button, Signal horn activation, Multifunction steering wheel control module, Steering column electronics control module

E2 Turn signal switch
E4 Headlamp dimmer/flasher switch
E45 Cruise control switch
E440 Left multifunction buttons on steering wheel
E480 tiptronic downshift button
F350 Spiral spring
H Signal horn activation
J453 Multifunction steering wheel control module, in the steering wheel
J527 Steering column electronics control module
T3bt 3-pin connector
T5k 5-pin connector
T6bo 6-pin connector
T6bp 6-pin connector
T8ae 8-pin connector
T9b 9-pin connector
T12k 12-pin connector
* Only for vehicles with cruise control

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

https://www.automotive-manuals.net/
Ignition/starter switch, Left multifunction buttons on steering wheel, Right multifunction buttons on steering wheel, tiptronic upshift button, Multifunction steering wheel control module, Steering column electronics control module, Ignition switch key lock solenoid

- **D** Ignition/starter switch
- **E440** Left multifunction buttons on steering wheel
- **E441** Right multifunction buttons on steering wheel
- **E479** tiptronic upshift button
- **F319** Selector lever park position lock switch
- **J453** Multifunction steering wheel control module, in the steering wheel
- **J527** Steering column electronics control module
- **J623** Engine control module
- **J764** Electronic steering column lock control module
- **N376** Ignition switch key lock solenoid, on the ignition/starter switch

- **T3bu** 3-pin connector
- **T6bo** 6-pin connector
- **T6bp** 6-pin connector
- **T6l** 6-pin connector
- **T8ae** 8-pin connector
- **T8ag** 8-pin connector
- **T8ah** 8-pin connector
- **T10s** 10-pin connector, under the selector lever
- **T16r** 16-pin connector
- **T16s** 16-pin connector
- **T94** 94-pin connector

**(B441)** Cruise control connection (in main wiring harness)

**(B454)** Shift lock connection (in main wiring harness)

* Refer to applicable engine wiring diagram
*2 Only for vehicles with DSG transmission
*3 Only for vehicles without access/start authorization system
*4 only for vehicles with access/start authorization system

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

https://www.automotive-manuals.net/
Standard equipment (NAR)
from May 2010
Battery, Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 5 (on fuse panel A), Fuse panel B

A Battery
B Starter
C Generator
J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
SA1 Fuse 1 (on fuse panel A)
SB3 Fuse 3 (on fuse panel B)
SA5 Fuse 5 (on fuse panel A)
SB Fuse panel B
SB7 Fuse 7 (on fuse panel B)
T40 40-pin connector

1 Ground strap, battery to body
14 Ground connection on transmission
508 Terminal 30 threaded connection (on E-box)
652 Transmission/engine ground connection
B163 Positive connection 1 (15) (in interior wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B319 Positive connection 5 (30a) (in main wiring harness)
*B Only for vehicles with 90 A/120 A generator
*2 Only for vehicles with a generator (140 A)

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

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

SC  Fuse panel C
SC1  Fuse 1 (on fuse panel C)
SC4  Fuse 4 (on fuse panel C)
SC13  Fuse 13 (on fuse panel C)
SC15  Fuse 15 (on fuse panel C)
SC17  Fuse 17 (on fuse panel C)

(A167) Positive connection 3 (30a) (in instrument panel wiring harness)
(A192) Positive connection 3 (15a) (in instrument panel wiring harness)
(A217) Positive connection 8 (15a) (in instrument panel wiring harness)
(B318) Positive connection 4 (30a) (in main wiring harness)
(B503) Positive connection 7 (30a) (in interior wiring harness)

* not for vehicles with dual clutch transmission
*2 only for vehicles without automatic transmission
*3 Only for vehicles with rain/light recognition sensor

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

Wiring Diagram
No. 99 / 4

https://www.automotive-manuals.net/
Load reduction relay, Fuse panel C

J59  Load reduction relay
J519 Vehicle electrical control module system
SC  Fuse panel C
SC24  Fuse 24 (on fuse panel C)
SC25  Fuse 25 (on fuse panel C)
SC40  Fuse 40 (on fuse panel C)
SC41  Fuse 41 (on fuse panel C)
SC42  Fuse 42 (on fuse panel C)
T52a  52-pin connector
T52b  52-pin connector
T52c  52-pin connector

B162  Connection 75a (in interior wiring harness)
B170  Positive connection 2 (30) (in interior wiring harness)

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

https://www.automotive-manuals.net/
Ignition/starter switch, Steering column electronics control module, Ignition switch key lock solenoid

- **D** Ignition/starter switch
- **F319** Selector lever park position lock switch
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **J764** Electronic steering column lock control module
- **N376** Ignition switch key lock solenoid, on the ignition/starter switch

**Connector Descriptions:**
- **T6l** 6-pin connector
- **T8ae** 8-pin connector
- **T10s** 10-pin connector, under the selector lever
- **T16r** 16-pin connector
- **T16s** 16-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

**Connector Notes:**
- * Only for vehicles with DSG transmission
- *2 only for vehicles with access/start authorization system
- *3 Only for vehicles without access/start authorization system

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

* http://vwts.ru
* http://vwts.info
* https://www.automotive-manuals.net/
Signal horn activation, Steering column electronics control module, Driver airbag igniter

- F350: Spiral spring
- J234: Airbag control module
- J519: Vehicle electrical control module system
- J527: Steering column electronics control module
- J623: Engine control module
- N95: Driver airbag igniter
- T4k: 4-pin connector
- T12k: 12-pin connector
- T16r: 16-pin connector
- T50: 50-pin connector
- T75: 75-pin connector

B441: Cruise control connection (in main wiring harness)

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

https://www.automotive-manuals.net/
Turn signal switch, Headlamp dimmer/flasher switch, Windshield wiper intermittent mode switch, Rear window wiper switch, Windshield wiper intermittent regulator, Windshield and headlamp washer pump switch, Cruise control switch, Multifunction indicator selection switch, Multifunction indicator memory switch, Cruise control -SET- button, Steering column electronics control module.

- **E2** Turn signal switch
- **E4** Headlamp dimmer/flasher switch
- **E22** Windshield wiper intermittent mode switch
- **E34** Rear window wiper switch
- **E38** Windshield wiper intermittent regulator
- **E44** Windshield and headlamp washer pump switch
- **E45** Cruise control switch
- **E86** Multifunction indicator selection switch
- **E109** Multifunction indicator memory switch
- **E227** Cruise control -SET- button
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **T6bk** 6-pin connector
- **T8ae** 8-pin connector
- **T9b** 9-pin connector

* Only for vehicles with multifunction display
* Only for vehicles with cruise control

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

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https://www.automotive-manuals.net/
Instrument panel and switch illumination dimmer switch, Back-up lamp switch, Engine hood contact switch, High tone horn, Low tone horn, Dual tone horn relay

- **E20** Instrument panel and switch illumination dimmer switch
- **F4** Back-up lamp switch
- **F266** Engine hood contact switch
- **H2** High tone horn
- **H7** Low tone horn
- **J4** Dual tone horn relay
- **J519** Vehicle electrical control module system
- **L105** Lighting control illumination bulb
- **T2n** Double connector, near the left headlamp
- **T8e** 8-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

**Ground connections**:
- **376** Ground connection 11 (in main wiring harness)
- **378** Ground connection 13 (in main wiring harness)
- **A90** Dual tone horn connection (in instrument panel wiring harness)
- **B521** Dual tone horn connection (in main wiring harness)

* not for vehicles with dual clutch transmission
*2 only for vehicles without automatic transmission

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

https://www.automotive-manuals.net/
Right front fog lamp bulb, Right cornering lamp bulb, Right position lamp bulb, Right front turn signal bulb, Right low beam headlamp bulb, Right high beam headlamp bulb, Right front side marker lamp bulb

J519  Vehicle electrical control module system
L23   Right front fog lamp bulb
L149  Right cornering lamp bulb
L175  Right daytime running lamp bulb
M3    Right position lamp bulb
M7    Right front turn signal bulb
M31   Right low beam headlamp bulb
M32   Right high beam headlamp bulb
M34   Right front side marker lamp bulb
T2bd  Double connector
T10j  10-pin connector, on the right headlamp
T52a  52-pin connector
T52c  52-pin connector

240   Ground connection 4 (in headlamp wiring harness)
373   Ground connection 8 (in main wiring harness)
378   Ground connection 13 (in main wiring harness)
393   Ground connection 28 (in main wiring harness)
656   Ground connection on right headlamp
A5    Right turn signal positive connection (in instrument panel wiring harness)
B143  Positive connection (58R) (in interior wiring harness)
B166  Connection 56a (in interior wiring harness)
B167  Connection 56b (in interior wiring harness)
D59   Fog lamp connection (in engine compartment wiring harness)

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

* Only for vehicles with fog lamps

https://www.automotive-manuals.net/
Light switch, Fog lamp switch, Fog lamp indicator lamp, Automatic light control indicator lamp

- **E1** Light switch
- **E7** Fog lamp switch
- **J519** Vehicle electrical control module system
- **K17** Fog lamp indicator lamp
- **K209** Automatic light control indicator lamp
- **L9** Headlamp switch illumination bulb
- **T10h** 10-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector

- **B340** Connection 58d (in main wiring harness) 1
  - * Only for vehicles with fog lamps
  - *2 Only for vehicles with automatic headlamp assist
Right tail lamp bulb, Left tail lamp bulb, Left rear turn signal bulb, Right rear turn signal bulb, Left back-up lamp bulb, Right back-up lamp bulb, Left brake/tail lamp bulb, Right brake/tail lamp bulb

- **J519**: Vehicle electrical control module system
- **M2**: Right tail lamp bulb
- **M4**: Left tail lamp bulb
- **M6**: Left rear turn signal bulb
- **M8**: Right rear turn signal bulb
- **M16**: Left back-up lamp bulb
- **M17**: Right back-up lamp bulb
- **M21**: Left brake/tail lamp bulb
- **M22**: Right brake/tail lamp bulb
- **T3au**: 3-pin connector
- **T3av**: 3-pin connector
- **T3aw**: 3-pin connector
- **T3ax**: 3-pin connector
- **T5a**: 5-pin connector, in the left rear side panel
- **T5c**: 5-pin connector
- **T5e**: 5-pin connector, in the left rear side panel
- **T52a**: 52-pin connector
- **T52c**: 52-pin connector
- **86**: Ground connection 1 (in rear wiring harness)
- **98**: Ground connection (in rear lid wiring harness)
- **369**: Ground connection 4 (in main wiring harness)
- **662**: Ground connection in left rear side panel
- **682**: Ground connection 2 in right rear side panel
- **A87**: Back-up lamp connection (in instrument panel wiring harness)

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

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**Source**: https://www.automotive-manuals.net/
Rear window defogger relay, Driver exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror turn signal bulb, High-mounted brake lamp bulb, Left license plate lamp, Right license plate lamp, Rear window defogger

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>J9</td>
<td>Rear window defogger relay</td>
</tr>
<tr>
<td>J386</td>
<td>Driver door control module</td>
</tr>
<tr>
<td>J387</td>
<td>Front passenger door control module</td>
</tr>
<tr>
<td>J519</td>
<td>Vehicle electrical control module system</td>
</tr>
<tr>
<td>L131</td>
<td>Driver exterior rearview mirror turn signal bulb</td>
</tr>
<tr>
<td>L132</td>
<td>Front passenger exterior rearview mirror turn signal bulb</td>
</tr>
<tr>
<td>M25</td>
<td>High-mounted brake lamp bulb</td>
</tr>
<tr>
<td>T2ac</td>
<td>Double connector</td>
</tr>
<tr>
<td>T2ah</td>
<td>Double connector</td>
</tr>
<tr>
<td>T2aj</td>
<td>Double connector, under the right rear bumper</td>
</tr>
<tr>
<td>T5a</td>
<td>5-pin connector, in the left rear side panel</td>
</tr>
<tr>
<td>T8l</td>
<td>8-pin connector</td>
</tr>
<tr>
<td>T16a</td>
<td>16-pin connector</td>
</tr>
<tr>
<td>T16g</td>
<td>16-pin connector</td>
</tr>
<tr>
<td>T20a</td>
<td>20-pin connector</td>
</tr>
<tr>
<td>T20b</td>
<td>20-pin connector</td>
</tr>
<tr>
<td>T28</td>
<td>28-pin connector, in the left A-pillar connector station</td>
</tr>
<tr>
<td>T28a</td>
<td>28-pin connector, in the left A-pillar connector station</td>
</tr>
<tr>
<td>T52a</td>
<td>52-pin connector</td>
</tr>
<tr>
<td>T52b</td>
<td>52-pin connector</td>
</tr>
<tr>
<td>T52c</td>
<td>52-pin connector</td>
</tr>
<tr>
<td>X4</td>
<td>Left license plate lamp</td>
</tr>
<tr>
<td>X5</td>
<td>Right license plate lamp</td>
</tr>
<tr>
<td>Z1</td>
<td>Rear window defogger</td>
</tr>
</tbody>
</table>

- **Code** 
- **Description**

**Ground Connections**

- **86** Ground connection 1 (in rear wiring harness)
- **98** Ground connection (in rear lid wiring harness)
- **205** Ground connection (in driver door wiring harness)
- **206** Ground connection (in front passenger door wiring harness)
- **345** Ground connection (in bumper wiring harness)
- **W41** Positive connection (58) (in license plate lamp wiring harness)

**Refer to applicable wiring diagram for radio/radio navigation system**

**Only for vehicles with park distance control (PDC)**

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

https://www.automotive-manuals.net/
Emergency flasher button, Left washer nozzle heater, Right washer nozzle heater

- **E229** Emergency flasher button
- **J519** Vehicle electrical control module system
- **K6** Emergency flasher indicator lamp
- **T6** 6-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **Z20** Left washer nozzle heater
- **Z21** Right washer nozzle heater

**Ground connections**
- **47** Ground connection in right front footwell
- **366** Ground connection 1 (in main wiring harness)
- **367** Ground connection 2 (in main wiring harness)
- **387** Ground connection 22 (in main wiring harness)
- **388** Ground connection 23 (in main wiring harness)
- **C72** Positive connection (in heated spray nozzle wiring harness)

* Only for vehicles with heated spray nozzles
*2 Only for vehicles with footwell lamp

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

[Diagram showing connections and labels]
Rain/light recognition sensor, Wiper motor control module, Rear window wiper motor, Windshield and rear window washer pump, Driver windshield wiper motor

- G397  Rain/light recognition sensor
- J400  Wiper motor control module
- J519  Vehicle electrical control module system
- T3ae  3-pin connector
- T4q   4-pin connector
- T4u   4-pin connector
- T5e   5-pin connector, in the left rear side panel
- T52a  52-pin connector
- T52b  52-pin connector
- V12   Rear window wiper motor
- V59   Windshield and rear window washer pump
- V216  Driver windshield wiper motor

- 387  Ground connection 22 (in main wiring harness)
- B183  Windshield washer pump connection 1 (in interior wiring harness)
- B184  Windshield washer pump connection 2 (in interior wiring harness)
- B528  LIN bus connection 1 (in main wiring harness)

*Only for vehicles with rain/light recognition sensor

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

https://www.automotive-manuals.net/
Glove compartment lamp switch, Brake lamp switch, Luggage compartment lamp, Glove compartment lamp

- E26 Glove compartment lamp switch
- F Brake lamp switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4ab 4-pin connector
- T4bc 4-pin connector
- T5c 5-pin connector, in the left rear side panel
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W3 Luggage compartment lamp
- W6 Glove compartment lamp

44 Ground connection on A-pillar, lower left
195 Ground connection (in rear door contact switch wiring harness)
367 Ground connection 2 (in main wiring harness)
387 Ground connection 22 (in main wiring harness)
389 Ground connection 24 (in main wiring harness)
605 Ground connection on upper steering column
B131 Connection 54 (in interior wiring harness)
B559 Positive connection 1 (30g) (in main wiring harness)

* Refer to applicable engine wiring diagram
*2 from November 2010
*3 Only for vehicles with rain/light recognition sensor
*4 Only for vehicles with footwell lamp
Front interior lamp, Left rear reading lamp, Right rear reading lamp, Front passenger reading lamp, Driver reading lamp, Rear interior lamp

J519  Vehicle electrical control module system
L156  Switch illumination bulb
T5y  5-pin connector
T6a  6-pin connector
T6b  6-pin connector
T8d  8-pin connector, near the front interior lamp
T52c  52-pin connector
W1  Front interior lamp
W11  Left rear reading lamp
W12  Right rear reading lamp
W13  Front passenger reading lamp
W19  Driver reading lamp
W43  Rear interior lamp
Y7  Automatic dimming interior rearview mirror

347  Ground connection (in roof wiring harness)
380  Ground connection 15 (in main wiring harness)
389  Ground connection 24 (in main wiring harness)
B154  Connection TK (in interior wiring harness) 1
B250  Positive connection (in roof wiring harness)
B559  Positive connection 1 (30g) (in main wiring harness)
B603  Positive connection 2 (30g) (in main wiring harness)

* Only for vehicles with automatic dimming interior rearview mirror
*2 Flat conductor
*3 from November 2010
*4 Only for vehicles with brake pad wear indicator

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

0.35 gr 347
0.35 br/vi 380
0.35 rt/vi *3

Golf  Wiring Diagram  No. 99 / 18

https://www.automotive-manuals.net/
Driver vanity mirror lamp contact switch, Front passenger vanity mirror lamp contact switch, Blocking diode, Cigarette lighter illumination bulb, Cigarette lighter, 12 V socket, Left footwell lamp, Right footwell lamp, Front passenger vanity mirror lamp, Driver vanity mirror lamp

F147  Driver vanity mirror lamp contact switch
F148  Front passenger vanity mirror lamp contact switch
J29   Blocking diode
J519  Vehicle electrical control module system
L28   Cigarette lighter illumination bulb
T52b  52-pin connector
U1    Cigarette lighter
U5    12 V socket
W9    Left footwell lamp
W10   Right footwell lamp
W14   Front passenger vanity mirror lamp
W20   Driver vanity mirror lamp

47    Ground connection in right front footwell
347   Ground connection (in roof wiring harness)
383   Ground connection 18 (in main wiring harness)
390   Ground connection 25 (in main wiring harness)
682   Ground connection 2 in right rear side panel
B250  Positive connection (in roof wiring harness)
B348  Connection 75a (in main wiring harness) 1
B433  Footwell illumination connection (in main wiring harness)

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

* Only for vehicles with illuminated vanity mirror
*2 Flat conductor
*3 Only for vehicles with footwell lamp

https://www.automotive-manuals.net/
Fresh air blower switch, Heater/heat output switch, Fresh air blower series resistor with fuse, Fresh air blower, Recirculation door motor

- **E9** Fresh air blower switch
- **E16** Heater/heat output switch, in the engine compartment, right
- **E159** Fresh air/recirculation door switch
- **E230** Rear window defogger button
- **G143** Recirculation door motor position sensor
- **J519** Vehicle electrical control module system
- **K10** Rear window defogger indicator lamp
- **K114** Fresh air and recirculation mode indicator lamp
- **L16** Fresh air control illumination bulb
- **N24** Fresh air blower series resistor with fuse
- **T4f** 4-pin connector
- **T5** 5-pin connector
- **T6k** 6-pin connector
- **T10k** 10-pin connector, behind the instrument panel, right
- **T20c** 20-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **V2** Fresh air blower
- **V113** Recirculation door motor

**Ground connection in left front footwell**

**Connection (in fresh air blower wiring harness)**

**Connection 1 (in fresh air blower wiring harness)**

* from November 2010
*2 Through October 2010

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

https://www.automotive-manuals.net/
Data bus on board diagnostic interface, Diagnostic connection

- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T52c** 52-pin connector
- **U31** Diagnostic connection
- **A76** KS-diagnostic lead connection (in instrument panel wiring harness)
- **A178** Infotainment CAN bus high connection (in instrument panel wiring harness)
- **A179** Infotainment CAN bus low connection (in instrument panel wiring harness)
- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398** Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407** Comfort system CAN bus low connection 2 (in main wiring harness)

Colors and abbreviations:

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

https://www.automotive-manuals.net/
Anti-theft immobilizer reader coil, Brake fluid level warning switch, Warning buzzer and tone, Instrument cluster control module, Cruise control indicator lamp, Anti-theft immobilizer indicator lamp, Door ajar indicator lamp, Lamp failure indicator lamp, Hood -open- indicator lamp

- D2: Anti-theft immobilizer reader coil
- F34: Brake fluid level warning switch
- H3: Warning buzzer and tone
- J245: Power sunroof control module
- J285: Instrument cluster control module
- J362: Anti-theft immobilizer control module
- K31: Cruise control indicator lamp
- K32: Brake pad wear indicator lamp
- K117: Anti-theft immobilizer indicator lamp
- K166: Door ajar indicator lamp
- K170: Lamp failure indicator lamp
- K171: Hood -open- indicator lamp
- T6c: 6-pin connector
- T32: 32-pin connector
  * Speed signal
  *2: only for vehicles with access/start authorization system
  *3: Only for vehicles without access/start authorization system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Parking brake indicator lamp switch, Tachometer, Speedometer, Windshield washer fluid level sensor, Left front brake pad wear sensor, Instrument cluster control module, High beam indicator lamp, Windshield washer fluid level indicator lamp

- F1 Oil pressure switch
- F9 Parking brake indicator lamp switch
- G5 Tachometer
- G21 Speedometer
- G33 Windshield washer fluid level sensor
- G34 Left front brake pad wear sensor
- J285 Instrument cluster control module
- K1 High beam indicator lamp
- K2 Generator indicator lamp
- K3 Oil pressure indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K37 Windshield washer fluid level indicator lamp
- K65 Indicator lamp for left turn signal
- K94 Right turn signal indicator lamp
- K105 Low fuel level indicator lamp
- K118 Brake system indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

- 410 Sensor ground connection 1 (in main wiring harness)
- B379 Brake wear indicator connection 1 (in main wiring harness)
- B380 Brake wear indicator connection 2 (in main wiring harness)

* Only for vehicles with brake pad wear indicator

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

https://www.automotive-manuals.net/
Fuel gauge, Engine coolant temperature gauge, Outside air temperature sensor, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Position lamp indicator lamp, Rear fog lamp indicator lamp, Engine electronics indicator lamp, Odometer display

- G  Fuel level sensor
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G6 Transfer fuel pump
- G17 Outside air temperature sensor
- G32 Engine coolant level sensor
- J119 Multifunction indicator
- J285 Instrument cluster control module
- J538 Fuel pump control module
- K4 Position lamp indicator lamp
- K13 Rear fog lamp indicator lamp
- K149 Engine electronics indicator lamp
- T2z Double connector
- T5b 5-pin connector
- T10n 10-pin connector
- T32 32-pin connector
- Y4 Odometer display

410 Sensor ground connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
Cell phone system
from November 2010
Cell phone operating electronics control module, Voltage stabilizer, Data bus on board diagnostic interface, Fuse 2 (on fuse panel C), Fuse 48 (on fuse panel C)

J412  Cell phone operating electronics control module, in the right front footwell
J532  Voltage stabilizer
J533  Data bus on board diagnostic interface
J682  Terminal 50 power supply relay
J907  Starter relay 2
SC2   Fuse 2 (on fuse panel C)
SC48  Fuse 48 (on fuse panel C)
T12ac 12-pin connector
T20   20-pin connector
T54   54-pin connector

47    Ground connection in right footwell
249   Ground connection 2 (in interior wiring harness)
366   Ground connection 1 (in main wiring harness)
610   Audio ground connection under front center console
A178  Infotainment CAN bus high connection (in instrument panel wiring harness)
A179  Infotainment CAN bus low connection (in instrument panel wiring harness)
A225  Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
A226  Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
B278  Positive connection 2 (15a) (in main wiring harness)
B320  Positive connection 6 (30a) (in main wiring harness)
B321  Positive connection 7 (30a) (in main wiring harness)
B660  Diagnostic terminal 50 connection (in main wiring harness)

* through April 2011
*2 from May 2011
*3 Only for vehicles with Start/Stop system
*4 Only for vehicles without Start/Stop system

ws = white

https://www.automotive-manuals.net/
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

*5 Depending on equipment
Cell phone operating electronics control module, Radio/ navigation display unit control module, Radio, Telephone microphone

- J412: Cell phone operating electronics control module, in the right front footwell
- J503: Radio/navigation display unit control module
- R: Radio
- R38: Telephone microphone
- T2f: Double connector, near the front interior lamp
- T12g: 12-pin connector
- T16b: 16-pin connector
- T26d: 26-pin connector
- T54: 54-pin connector
- 249: Ground connection 2 (in interior wiring harness)
- A178: Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179: Infotainment CAN bus low connection (in instrument panel wiring harness)
- * Only with radio navigation system and voice recognition system
- *2 Only for vehicles with radio navigation system
- *3 Only for vehicles with telephone charging station

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Telematics button module, Cell phone operating electronics control module, Telephone baseplate

- **E734** Telematics button module
- **J412** Cell phone operating electronics control module, in the right front footwell
- **L76** Push button illumination bulb
- **R126** Telephone baseplate
- **T2ce** Double connector, behind the glove compartment
- **T6at** 6-pin connector
- **T10f** 10-pin connector, behind the glove compartment
- **T16t** 16-pin connector
- **T54** 54-pin connector

**Ground connection 2 (in interior wiring harness)**

- * Only for vehicles with radio navigation system
- *2 Only for vehicles with telephone charging station
- *3 Only for vehicles with button module
- *4 Only for vehicles with telephone charging station and cell phone operating electronics control module

**Connection 58d (in main wiring harness)**

- 1

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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J412</td>
<td>Cell phone operating electronics control module, in the right front footwell</td>
</tr>
<tr>
<td>L76</td>
<td>Push button illumination bulb</td>
</tr>
<tr>
<td>R126</td>
<td>Telephone baseplate</td>
</tr>
<tr>
<td>T2ce</td>
<td>Double connector, behind the glove compartment</td>
</tr>
<tr>
<td>T6at</td>
<td>6-pin connector</td>
</tr>
<tr>
<td>T10f</td>
<td>10-pin connector, behind the glove compartment</td>
</tr>
<tr>
<td>T16t</td>
<td>16-pin connector</td>
</tr>
<tr>
<td>T54</td>
<td>54-pin connector</td>
</tr>
</tbody>
</table>

---

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

---

https://www.automotive-manuals.net/
Cell phone operating electronics control module, GPS antenna, Telephone antenna, Auxiliary engine coolant heater radio frequency receiver, Auxiliary heater antenna

- J412  Cell phone operating electronics control module, in the right front footwell
- R50   GPS antenna
- R65   Telephone antenna
- R149  Auxiliary engine coolant heater radio frequency receiver
- R182  Auxiliary heater antenna
- T2ay  Double connector, near the roof antenna
- T2az  Double connector, near the roof antenna
- T2m   Double connector, near the roof antenna
  * Only for vehicles with auxiliary water heater
  *2 Only for vehicles with telephone charging station and cell phone operating electronics control module
  *3 Only for vehicles with telephone charging station

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

https://www.automotive-manuals.net/
Headlamps Bixenon HID with range control, cornering lamp, LED daytime running lamps, (8G1), (8K1), (8K2)
from November 2010
Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- J329 Terminal 15 power supply relay
- J519 Vehicle electrical control module system
- J682 Terminal 50 power supply relay
- J906 Starter relay 1
- SB Fuse panel B
- SB1 Fuse 1 (on fuse panel B)
- SC Fuse panel C
- SC1 Fuse 1 (on fuse panel C)
- SC5 Fuse 5 (on fuse panel C)
- SC6 Fuse 6 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB16 Fuse 16 (on fuse panel B)
- SB26 Fuse 26 (on fuse panel B)
- SB47 Fuse 47 (on fuse panel B)
- SB49 Fuse 49 (on fuse panel B)
- T40 40-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- 605 Ground connection on upper steering column
- A192 Positive connection 3 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)

- * Depending on equipment
- ** E-Box low
- *** E-Box high

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

https://www.automotive-manuals.net/
Left HID headlamp control module, Left HID headlamp bulb, Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp and position lamp LED module

G18 Temperature sensor
J343 Left HID headlamp control module, on the left headlamp
J519 Vehicle electrical control module system
J860 Left daytime running lamp and position lamp control module, in the left headlamp
L13 Left HID headlamp bulb
L22 Left front fog lamp bulb
L148 Left cornering lamp bulb
L176 Left daytime running lamp and position lamp LED module
T2bc Double connector
T2ca Double connector
T4az 4-pin connector
T4az 4-pin connector
T5ac 5-pin connector
T5ai 8-pin connector
T14e 14-pin connector, on the left headlamp
T52a 52-pin connector
T52c 52-pin connector

119 Ground connection 1 (in headlamp wiring harness)
376 Ground connection 11 (in main wiring harness)
392 Ground connection 27 (in main wiring harness)
655 Ground connection on left headlamp
B144 Positive connection (58L) (in interior wiring harness)
C69 Fog lamp connection (in left front wiring harness)

* Only for vehicles with daytime running lamps
*2 Only for vehicles with fog lamps

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

https://www.automotive-manuals.net/
Left swivel module position sensor, Sensor for left variable headlamp positioning motor, Left headlamp power output module, Left front turn signal bulb, Left low beam headlamp reflector motor, Left adaptive cornering lamp motor

- **G474** Left swivel module position sensor
- **G695** Sensor for left variable headlamp positioning motor, in the left headlamp
- **J519** Vehicle electrical control module system
- **J667** Left headlamp power output module, on the left headlamp
- **M5** Left front turn signal bulb
- **T2cc** Double connector
- **T6bq** 6-pin connector
- **T14e** 14-pin connector, on the left headlamp
- **T24a** 24-pin connector
- **T52a** 52-pin connector
- **T52c** 52-pin connector
- **V294** Left low beam headlamp reflector motor
- **V318** Left adaptive cornering lamp motor

**Ground connection 1 (in headlamp wiring harness)**

**Left turn signal positive connection (in instrument panel wiring harness)**

* through April 2011
*2 from May 2011

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

https://www.automotive-manuals.net/
Left rear level control system sensor, Data bus on board diagnostic interface, Left headlamp power output module, Cornering lamp and headlamp range control module, Left headlamp beam adjustment motor

- **G76**: Left rear level control system sensor
- **J519**: Vehicle electrical control module system
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console
- **J667**: Left headlamp power output module, on the left headlamp
- **J745**: Cornering lamp and headlamp range control module, on the right glove compartment

Dimensions:
- **T4ar**: 4-pin connector
- **T5ae**: 5-pin connector
- **T14e**: 14-pin connector, on the left headlamp
- **T16**: 16-pin connector
- **T20**: 20-pin connector
- **T24a**: 24-pin connector
- **T26h**: 26-pin connector
- **U31**: Diagnostic connection
- **V48**: Left headlamp beam adjustment motor

- **119**: Ground connection 1 (in headlamp wiring harness)
- **B229**: High bus connection (in interior wiring harness)
- **B230**: Low bus connection (in interior wiring harness)
- **B383**: Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390**: Powertrain CAN bus low connection 1 (in main wiring harness)
- **N5**: Connection 4 (in headlamp range control wiring harness)
- **N6**: Connection 5 (in headlamp range control wiring harness)
- **N7**: Connection 6 (in headlamp range control wiring harness)

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

More information can be found at [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Right swivel module position sensor, Sensor for right variable headlamp positioning motor, Right headlamp power output module, Right headlamp beam adjustment motor, Right low beam headlamp reflector motor

- **E1** Light switch
- **G475** Right swivel module position sensor
- **G696** Sensor for right variable headlamp positioning motor, in the right headlamp
- **J519** Vehicle electrical control module system
- **J668** Right headlamp power output module, on the right headlamp
- **T2cd** Double connector
- **T5af** 5-pin connector
- **T6br** 6-pin connector
- **T10h** 10-pin connector
- **T14f** 14-pin connector, on the right headlamp
- **T24b** 24-pin connector
- **T52a** 52-pin connector
- **V49** Right headlamp beam adjustment motor
- **V295** Right low beam headlamp reflector motor

(B229) High bus connection (in interior wiring harness)

(B230) Low bus connection (in interior wiring harness)

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

**Links:**
- [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Sensor for right variable headlamp positioning motor, Right daytime running lamp and position lamp LED module, Right front turn signal bulb, Right adaptive cornering lamp motor

G18  Temperature sensor
G696  Sensor for right variable headlamp positioning motor, in the right headlamp
J519  Vehicle electrical control module system
J861  Right daytime running lamp and position lamp control module, in the right headlamp
L177  Right daytime running lamp and position lamp LED module
M7   Right front turn signal bulb
T5ad  5-pin connector
T6br  6-pin connector
T8aj  8-pin connector
T14f  14-pin connector, on the right headlamp
T52a  52-pin connector
T52c  52-pin connector
V319  Right adaptive cornering lamp motor

120  Ground connection 2 (in headlamp wiring harness)
A5   Right turn signal positive connection (in instrument panel wiring harness)
B143 Positive connection (58R) (in interior wiring harness)
B166 Connection 56a (in interior wiring harness)

* from May 2011
*2 Only for vehicles with daytime running lamps
*3 Only for vehicles without rear fog lamps
*4 Only for vehicles with fog lamps
*5 through April 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gt = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Right HID headlamp control module, Right HID headlamp bulb, Right front fog lamp bulb, Lighting control illumination bulb, Right cornering lamp bulb

- **E20** Instrument panel and switch illumination dimmer switch
- **J344** Right HID headlamp control module
- **J519** Vehicle electrical control module system
- **L14** Right HID headlamp bulb
- **L23** Right front fog lamp bulb
- **L105** Lighting control illumination bulb
- **L149** Right cornering lamp bulb

- **T2bd** Double connector
- **T2cb** Double connector
- **T4at** 4-pin connector
- **T4ba** 4-pin connector
- **T8e** 8-pin connector
- **T14f** 14-pin connector, on the right headlamp
- **T52b** 52-pin connector
- **T52c** 52-pin connector

- **47** Ground connection in right front footwell
- **366** Ground connection 1 (in main wiring harness)
- **378** Ground connection 13 (in main wiring harness)
- **387** Ground connection 22 (in main wiring harness)
- **388** Ground connection 23 (in main wiring harness)
- **393** Ground connection 28 (in main wiring harness)
- **656** Ground connection on right headlamp

- **B167** Connection 56b (in interior wiring harness)
- **B340** Connection 58d (in main wiring harness) 1
- **D59** Fog lamp connection (in engine compartment wiring harness) * Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
2.5L gasoline engine, CBTA, CBUA
from November 2010
Battery, Starter, Generator, Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 27 (on fuse panel C)

A  Battery
B  Starter
C  Generator
C1 Voltage regulator
SA1 Fuse 1 (on fuse panel A)
SC2 Fuse 2 (on fuse panel C)
SA5 Fuse 5 (on fuse panel A)
SC27 Fuse 27 (on fuse panel C)
T2 2-pin connector
T2c 2-pin connector, near the starter
T4t 4-pin connector, near the starter

1  Ground strap, battery to body

508  Terminal 30 threaded connection (on E-box)
B169 Positive connection 1 (30) (in interior wiring harness)
B177 Connection 61 (in interior wiring harness)
B278 Positive connection 2 (15a) (in main wiring harness)
D110 Connection 8 (in engine compartment wiring harness)

*  Only for vehicles with A/C system
*2 Only for vehicles without an A/C system
*3 Through November 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Fuel pump relay, Terminal 15 power supply relay, Terminal 50 power supply relay, Fuse panel B

- J17 Fuel pump relay
- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- SB Fuse panel B
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- T40 40-pin connector

14 Ground connection on transmission
508 Terminal 30 threaded connection (on E-box)
652 Transmission/engine ground connection
A193 Connection 87a (in instrument panel wiring harness)
B163 Positive connection 1 (15) (in interior wiring harness)
B504 Positive connection 8 (30a) (in interior wiring harness)
B660 Diagnostic terminal 50 connection (in main wiring harness)
* Only for vehicles without access/start authorization system
*2 only for vehicles with access/start authorization system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Secondary air injection pump relay, Fuse panel B, Secondary air injection pump motor

- J299: Secondary air injection pump relay
- SB: Fuse panel B
- SB10: Fuse 10 (on fuse panel B)
- SB14: Fuse 14 (on fuse panel B)
- SB15: Fuse 15 (on fuse panel B)
- SB20: Fuse 20 (on fuse panel B)
- SB21: Fuse 21 (on fuse panel B)
- SB22: Fuse 22 (on fuse panel B)
- SB23: Fuse 23 (on fuse panel B)
- SB27: Fuse 27 (on fuse panel B)

- V101: Secondary air injection pump motor

- 655: Ground connection on left headlamp
- D78: Positive connection 1 (30a) (in engine compartment wiring harness)
- D197: Connection 5 (87a) (in engine compartment wiring harness)

- * Depending on equipment
- *2 Only for vehicles with a manual transmission
- *3 Only for vehicles with automatic transmission
- *4 from November 2010

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

Wiring Diagram No. 102 / 4

https://www.automotive-manuals.net/
Motronic engine control module power supply relay, Engine control module, Fuse panel B

- J271 Motronic engine control module power supply relay
- J623 Engine control module, in the center plenum chamber
- SB Fuse panel B
- SB13 Fuse 13 (on fuse panel B)
- SB24 Fuse 24 (on fuse panel B)
- T40 40-pin connector
- T94 94-pin connector
- J623 K
- Ground connection 2 (in engine compartment wiring harness)
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)
- 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 = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink

https://www.automotive-manuals.net/
Engine coolant temperature sensor, Engine coolant temperature sensor on radiator outlet, Throttle valve control module, Engine control module, Ignition coil 5 with power output stage

- G62 Engine coolant temperature sensor
- G83 Engine coolant temperature sensor on radiator outlet
- G186 EPC throttle drive
- G187 EPC throttle drive angle sensor 1
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module, in the center plenum chamber
- N323 Ignition coil 5 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T6x 6-pin connector
- T60 60-pin connector
- T94 94-pin connector
- 85 Ground connection 1 (in engine compartment wiring harness)
- 281 Ground connection 1 (in engine pre-wiring harness)
- D108 Connection 6 (in engine compartment wiring harness)
- D109 Connection 7 (in engine compartment wiring harness)
- D206 Connection 87a (in engine pre-wiring harness)

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Camshaft position sensor, Intake air temperature sensor, Knock sensor 1, Knock sensor 2, Manifold absolute pressure sensor, Secondary air injection sensor 1, Engine control module

G40 Camshaft position sensor
G42 Intake air temperature sensor
G61 Knock sensor 1
G66 Knock sensor 2
G71 Manifold absolute pressure sensor
G609 Secondary air injection sensor 1
J623 Engine control module, in the center plenum chamber
T3d 3-pin connector
T3w 3-pin connector, on the engine, front
T3y 3-pin connector, on the engine, front
T4bu 4-pin connector
T60 60-pin connector

220 Sensor ground connection (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 = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Engine speed sensor, Camshaft position sensor, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector, Cylinder 5 fuel injector, Leak detection pump

G28  Engine speed sensor
G40  Camshaft position sensor
J623  Engine control module, in the center plenum chamber
N30  Cylinder 1 fuel injector
N31  Cylinder 2 fuel injector
N32  Cylinder 3 fuel injector
N33  Cylinder 4 fuel injector
N83  Cylinder 5 fuel injector
T3d  3-pin connector
T14a  14-pin connector, near the battery
T60  60-pin connector
T94  94-pin connector
V144  Leak detection pump
V327  Sensor ground connection (in engine compartment wiring harness)
D95  Injector connection (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Oxygen sensor after catalytic converter, Center oxygen sensor for bank 1 catalytic converter, Engine control module, EVAP canister purge regulator valve 1, Secondary air injection solenoid valve, Camshaft adjustment valve 1

- G130 Oxygen sensor after catalytic converter
- G465 Center oxygen sensor for bank 1 catalytic converter
- J623 Engine control module, in the center plenum chamber
- N80 EVAP canister purge regulator valve 1
- N112 Secondary air injection solenoid valve
- N205 Camshaft adjustment valve 1
- T4au 4-pin connector, near the oxygen sensor
- T4v 4-pin connector, in the engine compartment, front
- T4x 4-pin connector, on the lower left coolant fan
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector
- Z29 Heater for oxygen sensor 1 after catalytic converter

- D180 Connection 87a (in engine compartment wiring harness)
- D181 Connection 2 (87a) (in engine compartment wiring harness)
- E30 Connection 87a (in engine wiring harness)
- * Radiator fan connection
- *2 Depending on equipment

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

Heated oxygen sensor, Accelerator pedal position sensor, Accelerator pedal position sensor 2, Center oxygen sensor for bank 1 catalytic converter, Engine control module

- G39 Heated oxygen sensor
- G79 Accelerator pedal position sensor
- G185 Accelerator pedal position sensor 2
- G465 Center oxygen sensor for bank 1 catalytic converter
- J623 Engine control module, in the center plenum chamber
- T4au 4-pin connector, near the oxygen sensor
- T6h 6-pin connector
- T6w 6-pin connector, in the engine compartment, rear
- T94 94-pin connector
- Z19 Oxygen sensor heater
- Z62 Oxygen sensor 3 heater

E30 Connection 87a (in engine wiring harness)

* Depending on equipment

- ws = white  
- sw = black  
- ro = red  
- rt = red  
- br = brown  
- gn = green  
- bl = blue  
- gr = grey  
- li = lilac  
- vi = lilac  
- ge = yellow  
- or = orange  
- rs = pink
Vehicle electrical control module system, Engine control module

- F125 Multifunction transmission range switch
- J104 ABS control module
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- J623 Engine control module, in the center plenum chamber
- J764 Electronic steering column lock control module
- T2 2-pin connector
- T10q 10-pin connector, on the transmission
- T16r 16-pin connector
- T26a 26-pin connector
- T47c 47-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T94 94-pin connector

* Only for vehicles without access/start authorization system
*2 Only for vehicles with automatic transmission
*3 Only for vehicles with a manual transmission
*4 only for vehicles with access/start authorization system
*5 from May 2010

- B276 Positive connection (50) (in main wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B465 Connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
Multifunction indicator, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

J119 Multifunction indicator
J285 Instrument cluster control module
J519 Vehicle electrical control module system
J533 Data bus on board diagnostic interface, in the left footwell, near the center console

K Instrument cluster
K83 Malfunction indicator lamp
T16 16-pin connector
T20 20-pin connector
T32 32-pin connector
T52b 52-pin connector
T52c 52-pin connector
U31 Diagnostic connection

(B383) Powertrain CAN bus high connection 1 (in main wiring harness)
(B390) Powertrain CAN bus low connection 1 (in main wiring harness)
(B397) Comfort system CAN bus high connection 1 (in main wiring harness)
(B398) Comfort system CAN bus high connection 2 (in main wiring harness)
(B406) Comfort system CAN bus low connection 1 (in main wiring harness)
(B407) Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for left-hand drive vehicles
*2 Only for right-hand drive vehicles

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel level sensor, Fuel gauge, Engine coolant temperature gauge, Transfer fuel pump, Engine coolant level sensor, Instrument cluster control module

- F1 Oil pressure switch
- G Fuel level sensor
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G6 Transfer fuel pump
- G32 Engine coolant level sensor
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- K Instrument cluster
- K3 Oil pressure indicator lamp
- K31 Cruise control indicator lamp
- K38 Oil level indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T5b 5-pin connector
- T14a 14-pin connector, near the battery
- T32 32-pin connector

- 383 Ground connection 18 (in main wiring harness)
- 410 Sensor ground connection 1 (in main wiring harness)
- 682 Ground connection 2 in right rear side panel

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

https://www.automotive-manuals.net/
Multifunction steering wheel
from May 2011
Terminal 15 power supply relay, Fuse panel B, Fuse panel C

- J329: Terminal 15 power supply relay
- J519: Vehicle electrical control module system
- J682: Terminal 50 power supply relay
- J906: Starter relay 1
- SB: Fuse panel B
- SC: Fuse panel C
- SC2: Fuse 2 (on fuse panel C)
- SB3: Fuse 3 (on fuse panel B)
- SB6: Fuse 6 (on fuse panel B)
- SB7: Fuse 7 (on fuse panel B)
- SB8: Fuse 8 (on fuse panel B)
- SB12: Fuse 12 (on fuse panel B)
- SC47: Fuse 47 (on fuse panel C)
- T40: 40-pin connector
- T52b: 52-pin connector

- 508: Terminal 30 threaded connection (on E-box)
- B163: Positive connection 1 (15) (in interior wiring harness)
- B278: Positive connection 2 (15a) (in main wiring harness)
- B320: Positive connection 6 (30a) (in main wiring harness)
- B321: Positive connection 7 (30a) (in main wiring harness)
- B504: Positive connection 8 (30a) (in interior wiring harness)

- * Only for vehicles without Start/Stop system
- *2 Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Multifunction indicator, Instrument cluster control module,
Data bus on board diagnostic interface

- **H3** Warning buzzer and tone
- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console

- **T16n** 16-pin connector, under the instrument panel, left
- **T20** 20-pin connector
- **T32** 32-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

- **44** Ground connection on A-pillar, lower left
- **367** Ground connection 2 (in main wiring harness)
- **387** Ground connection 22 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)

* Diagnostic connector
*2 Only for vehicles without Start/Stop system

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

https://www.automotive-manuals.net/
Signal horn activation, Steering column electronics control module, Driver airbag igniter

- **F350**: Spiral spring
- **H**: Signal horn activation
- **J29**: Blocking diode
- **J234**: Airbag control module
- **J519**: Vehicle electronics control module system
- **J527**: Steering column electronics control module
- **J608**: Special purpose vehicle control module
- **N95**: Driver airbag igniter
- **T4bx**: 4-pin connector, near the lower left A-pillar
- **T4k**: 4-pin connector
- **T12k**: 12-pin connector
- **T16n**: 16-pin connector
- **T16r**: 16-pin connector
- **T50**: 50-pin connector
- **T52c**: 52-pin connector
- **T75**: 75-pin connector

- **367**: Ground connection 2 (in main wiring harness)
- **605**: Ground connection on upper steering column
- **B240**: Positive connection 2 (50) (in interior wiring harness)
- **B276**: Positive connection (50) (in main wiring harness)
- **T52c**: 52-pin connector
- **T75**: 75-pin connector

* Refer to applicable airbag wiring diagram
*2 only for vehicles with driving assistance special equipment
*3 Only for vehicles without Start/Stop system
*4 Only for vehicles with Start/Stop system
*5 Only for vehicles without access/start authorization system
*6 only for vehicles without driving assistance special equipment
*7 only for vehicles without police special equipment
*8 Only for vehicles with US equipment
*9 Refer to applicable engine wiring diagram

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

[Diagram of wiring connections with labels and connection points]
Turn signal switch, Headlamp dimmer/flasher switch, Cruise control switch, Cruise control -SET- button, Left multifunction buttons on steering wheel, tiptronic downshift button, Signal horn activation, Multifunction steering wheel control module, Steering column electronics control module

- E2 Turn signal switch
- E4 Headlamp dimmer/flasher switch
- E45 Cruise control switch
- E227 Cruise control -SET- button
- E440 Left multifunction buttons on steering wheel
- E480 tiptronic downshift button
- F350 Spiral spring
- H Signal horn activation
- J453 Multifunction steering wheel control module, in the steering wheel
- J527 Steering column electronics control module
- T3bt 3-pin connector
- T5k 5-pin connector
- T6bo 6-pin connector
- T6bp 6-pin connector
- T8ae 8-pin connector
- T9b 9-pin connector
- T12k 12-pin connector
  * Only for vehicles with cruise control

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

https://www.automotive-manuals.net/
Radio navigation system
from November 2010
Radio/navigation display unit control module, Voltage stabilizer, Radio, Fuse 5 (on fuse panel A), Fuse panel C

- **J503**: Radio/navigation display unit control module
- **J519**: Vehicle electrical control module system
- **J532**: Voltage stabilizer
- **J682**: Terminal 50 power supply relay
- **J907**: Starter relay 2
- **R**: Radio
- **SA5**: Fuse 5 (on fuse panel A)
- **SC**: Fuse panel C
- **SC13**: Fuse 13 (on fuse panel C)
- **SC28**: Fuse 28 (on fuse panel C)
- **T10ah**: 10-pin connector
- **T12ac**: 12-pin connector
- **T16b**: 16-pin connector
- **T52b**: 52-pin connector
- **T52c**: 52-pin connector

- **47**: Ground connection in right front footwell
- **53**: Ground connection in rear lid, right
- **366**: Ground connection 1 (in main wiring harness)
- **508**: Terminal 30 threaded connection (on E-box)
- **682**: Ground connection 2 in right rear side panel

- **A167**: Positive connection 3 (30a) (in instrument panel wiring harness)
- **B169**: Positive connection 1 (30) (in interior wiring harness)
- **B224**: Radio connection 1 (in interior wiring harness)
- **B226**: Radio connection 3 (in interior wiring harness)
- **B320**: Positive connection 6 (30a) (in main wiring harness)
- **B660**: Diagnostic terminal 50 connection (in main wiring harness)

* from May 2011
*2 through April 2011
*3 Only for vehicles with Start/Stop system
*4 Through October 2011
<table>
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<td>brown</td>
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<td>vi</td>
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<td>yellow</td>
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<tr>
<td>or</td>
<td>orange</td>
</tr>
<tr>
<td>rs</td>
<td>pink</td>
</tr>
</tbody>
</table>

*5 Only for vehicles without Start/Stop system
*6 from November 2011
Radio/navigation display unit control module, Radio, External audio source connection, External multimedia device interface

J503  Radio/navigation display unit control module
R  Radio
R199  External audio source connection
R215  External multimedia device interface
T4cm  4-pin connector
T12  12-pin connector
T12t  12-pin connector
T16b  16-pin connector

370  Ground connection 5 (in main wiring harness)
371  Ground connection 6 (in main wiring harness)
610  Audio ground connection under front center console

* Only for vehicles with CD changer
*2 Only for vehicles with external audio source connection without electrical interface
*3 Only for vehicles with auxiliary coolant heater
*4 Only for vehicles with multimedia socket for external audio sources
*5 Only for vehicles with external multimedia device connection with electrical interface

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
gi = yellow
or = orange
rs = pink
Cell phone operating electronics control module, Radio/navigation display unit control module, Data bus on board diagnostic interface, Radio, External multimedia device interface

- J412: Cell phone operating electronics control module, in the engine compartment, right, in the right front footwell
- J503: Radio/navigation display unit control module
- J533: Data bus on board diagnostic interface, in the left footwell, near the center console
- R: Radio
- R215: External multimedia device interface
- T4bj: 4-pin connector, in the front center armrest, USB connection
- T12g: 12-pin connector
- T12t: 12-pin connector
- T16b: 16-pin connector
- T20: 20-pin connector
- T30: 30-pin connector
- T54: 54-pin connector
- A178: Infotainment CAN bus high connection (in instrument panel wiring harness)
- A179: Infotainment CAN bus low connection (in instrument panel wiring harness)
- A225: Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
- A226: Infotainment CAN bus low connection 2 (in instrument panel wiring harness)

* Only for vehicles with telephone charging station and cell phone operating electronics control module
*2 Only for vehicles with a cell phone/telephone
*3 Depending on equipment
*4 Only for vehicles with an amplifier
*5 Only for vehicles with external multimedia device connection with electrical interface

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink
Cell phone operating electronics control module, Radio/navigation display unit control module, Radio, Telephone microphone

J412  Cell phone operating electronics control module, in the engine compartment, right, in the right front footwell
J503  Radio/navigation display unit control module
R  Radio
R38  Telephone microphone
T2f 2-pin connector, near the front interior lamp
T12g 12-pin connector
T54  54-pin connector
* Only for vehicles with with a cell phone/telephone
*2 Only for vehicles with telephone charging station and cell phone operating electronics control module
*3 Only for vehicles with a speech recognition system
*4 Only for vehicles without telephone/cell phone prep
Radio/navigation display unit control module, Radio, Telephone baseplate

- J503  Radio/navigation display unit control module
- R  Radio
- R126  Telephone baseplate
- T2ce  2-pin connector, behind the glove compartment
- T10f  10-pin connector, behind the glove compartment
- T16t  16-pin connector
- T26d  26-pin connector

* Only for vehicles with telephone charging station and cell phone operating electronics control module

*2 Only for vehicles with telephone charging station

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

https://www.automotive-manuals.net/
Radio/navigation display unit control module, Radio, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

J503  Radio/navigation display unit control module
R    Radio
R20  Left front treble speaker
R21  Left front bass speaker
R22  Right front treble speaker
R23  Right front bass speaker
T16b 16-pin connector
T28  28-pin connector, in the left A-pillar connector station
T28a 28-pin connector, in the connector station, right A-pillar
* Only for vehicles with an amplifier

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

https://www.automotive-manuals.net/
Radio/navigation display unit control module, Radio, Left rear treble speaker, Left rear bass speaker

- J503  Radio/navigation display unit control module
- R  Radio
- R14  Left rear treble speaker
- R15  Left rear bass speaker
- T16b  16-pin connector
- T28b  28-pin connector, behind the lower left B-pillar trim

* Only for vehicles with a rear speaker
*2 Only for vehicles with passive speakers
*3 Only for vehicles with 4 doors
*4 Only for vehicles with 2-door equipment
*5 Only for vehicles with an amplifier

---

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Radio/navigation display unit control module, Radio, Right rear treble speaker, Right rear bass speaker

J503 Radio/navigation display unit control module
R Radio
R16 Right rear treble speaker
R17 Right rear bass speaker
T16b 16-pin connector
T28c 28-pin connector, behind the lower right B-pillar trim
* Only for vehicles with a rear speaker
*2 Only for vehicles with passive speakers
*3 Only for vehicles with 4 doors
*4 Only for vehicles with 2-door equipment
*5 Only for vehicles with an amplifier

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink
Radio/navigation display unit control module, Radio, CD changer

- J503  Radio/navigation display unit control module
- R  Radio
- R41  CD changer
- T12  12-pin connector
- T12d  12-pin connector
- B340  Connection 58d (in main wiring harness) 1
- V14  Shielding connection (in CD changer wiring harness)
- V45  Shielding connection 2 (in CD changer wiring harness)

* Only for vehicles with CD changer

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Radio/navigation display unit control module, Radio, GPS antenna, Telephone antenna, Auxiliary coolant heater radio frequency receiver, Auxiliary heater antenna

J503 Radio/navigation display unit control module
R Radio
R50 GPS antenna
R65 Telephone antenna
R149 Auxiliary coolant heater radio frequency receiver
R182 Auxiliary heater antenna
T2ay 2-pin connector, near the roof antenna
T2az 2-pin connector, near the roof antenna
T2m 2-pin connector, near the roof antenna
* Only for vehicles with telephone charging station and cell phone operating electronics control module
*2 Only for vehicles with telephone charging station
*3 Only for vehicles with auxiliary coolant heater

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Radio/navigation display unit control module, Radio, Antenna, Left antenna module, Right antenna module, FM frequency filter in negative wire, FM frequency filter in positive wire, Rear window defogger

- **J503**: Radio/navigation display unit control module
- **R**: Radio
- **R11**: Antenna
- **R93**: Radio antenna 2
- **R108**: Left antenna module
- **R109**: Right antenna module
- **R177**: AM frequency filter, in the rear lid
- **R178**: FM frequency filter in negative wire, in the rear lid
- **R179**: FM frequency filter in positive wire, in the rear lid
- **R183**: Digital radio antenna
- **T1a**: 1-pin connector
- **T1b**: 1-pin connector
- **T1c**: 1-pin connector
- **T1d**: 1-pin connector
- **T1e**: 1-pin connector, behind the right C-pillar trim panel
- **T1f**: 1-pin connector
- **T1g**: 1-pin connector, behind the right C-pillar trim panel
- **T1h**: 1-pin connector
- **T1i**: 1-pin connector
- **T1j**: 1-pin connector
- **T1w**: 1-pin connector
- **T2b**: 2-pin connector
- **T5a**: 5-pin connector, in the left rear side panel
- **T5e**: 5-pin connector, in the left rear side panel
- **Z1**: Rear window defogger

**Ground connection 4 (in main wiring harness)**

**Ground connection in left rear side panel**

*Only for vehicles with a digital radio*

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

https://www.automotive-manuals.net/
Amplifier, Left front treble speaker, Left front bass speaker, Right front treble speaker, Right front bass speaker

- **R12** - Amplifier, under the driver seat
- **R20** - Left front treble speaker
- **R21** - Left front bass speaker
- **R22** - Right front treble speaker
- **R23** - Right front bass speaker
- **T28** - 28-pin connector, in the left A-pillar connector station
- **T28a** - 28-pin connector, in the connector station, right A-pillar
- **T38** - 38-pin connector

Audio ground connection under front center console

* Only for vehicles with an amplifier

---

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

---

https://www.automotive-manuals.net/
Amplifier, Left rear treble speaker, Left rear bass speaker

R12  Amplifier, under the driver seat
R14  Left rear treble speaker
R15  Left rear bass speaker
T28b 28-pin connector, behind the lower left B-pillar trim
T38  38-pin connector
* Only for vehicles with an amplifier
*2 Only for vehicles with 4 doors
*3 Only for vehicles with 2-door equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Amplifier, Right rear treble speaker, Right rear bass speaker

- **R12**: Amplifier, under the driver seat
- **R16**: Right rear treble speaker
- **R17**: Right rear bass speaker
- **T28c**: 28-pin connector, behind the lower right B-pillar trim
- **T38**: 38-pin connector
  - * Only for vehicles with an amplifier
  - *2 Only for vehicles with 4 doors
  - *3 Only for vehicles with 2-door equipment

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
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<td>0.5</td>
<td>br</td>
</tr>
<tr>
<td>0.5</td>
<td>ws</td>
</tr>
<tr>
<td>T38</td>
<td>28-pin connector</td>
</tr>
<tr>
<td>T38</td>
<td>38-pin connector</td>
</tr>
</tbody>
</table>

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

https://www.automotive-manuals.net/
Standard equipment (NAR)
from May 2011
Battery, Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse panel B

- A Battery
- B Starter
- C Generator
- J329 Terminal 15 power supply relay
- J682 Terminal 50 power supply relay
- SA1 Fuse 1 (on fuse panel A)
- SB3 Fuse 3 (on fuse panel B)
- SA5 Fuse 5 (on fuse panel A)
- SB Fuse panel B
- SB7 Fuse 7 (on fuse panel B)
- T40 40-pin connector

1. Ground strap, battery to body
14. Ground connection on transmission
508. Terminal 30 threaded connection (on E-box)
652. Transmission/engine ground connection
B163. Positive connection 1 (15) (in interior wiring harness)
B169. Positive connection 1 (30) (in interior wiring harness)
B319. Positive connection 5 (30a) (in main wiring harness)
* Only for vehicles with 90 A/120 A generator
*2 Only for vehicles with a generator (140 A)

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse panel C

SB  Fuse panel B
SC2  Fuse 2 (on fuse panel C)
SB6  Fuse 6 (on fuse panel B)
SB12  Fuse 12 (on fuse panel B)
SB16  Fuse 16 (on fuse panel B)
SB17  Fuse 17 (on fuse panel B)
SB19  Fuse 19 (on fuse panel B)
SB26  Fuse 26 (on fuse panel B)
SB30  Fuse 30 (on fuse panel B)
SC  Fuse panel C
T40  40-pin connector

B278  Positive connection 2 (15a) (in main wiring harness)
B504  Positive connection 8 (30a) (in interior wiring harness)

Wiring Diagram

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

https://www.automotive-manuals.net/
**Fuse panel C**

- **SC** Fuse panel C
- **SC1** Fuse 1 (on fuse panel C)
- **SC4** Fuse 4 (on fuse panel C)
- **SC13** Fuse 13 (on fuse panel C)
- **SC15** Fuse 15 (on fuse panel C)
- **SC17** Fuse 17 (on fuse panel C)

- **(A167)** Positive connection 3 (30a) (in instrument panel wiring harness)
- **(A192)** Positive connection 3 (15a) (in instrument panel wiring harness)
- **(A217)** Positive connection 8 (15a) (in instrument panel wiring harness)
- **(B318)** Positive connection 4 (30a) (in main wiring harness)
- **(B503)** Positive connection 7 (30a) (in interior wiring harness)

* **not for vehicles with dual clutch transmission**
*2 **Only for vehicles with rain/light recognition sensor**

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

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https://www.automotive-manuals.net/
Load reduction relay, Fuse panel C

J59  Load reduction relay
J519 Vehicle electrical control module system
SC  Fuse panel C
SC14 Fuse 14 (on fuse panel C)
SC24 Fuse 24 (on fuse panel C)
SC25 Fuse 25 (on fuse panel C)
SC40 Fuse 40 (on fuse panel C)
SC41 Fuse 41 (on fuse panel C)
SC42 Fuse 42 (on fuse panel C)
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector

B162 Connection 75a (in interior wiring harness)
B170 Positive connection 2 (30) (in interior wiring harness)
B315 Positive connection 1 (30a) (in main wiring harness)
* Only for vehicles with auxiliary water heater

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

https://www.automotive-manuals.net/
Ignition/starter switch, Steering column electronics control module, Ignition switch key lock solenoid

- D Ignition/starter switch
- F319 Selector lever park position lock switch
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- J764 Electronic steering column lock control module
- N376 Ignition switch key lock solenoid, on the ignition/starter switch
- T6l 6-pin connector
- T8ae 8-pin connector
- T10s 10-pin connector, under the selector lever
- T16r 16-pin connector
- T16s 16-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- B454 Shift lock connection (in main wiring harness)
- B465 Connection 1 (in main wiring harness)

* Only for vehicles with DSG transmission
*2 Only for vehicles with access/start authorization system
*3 Only for vehicles without access/start authorization system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vi = lilac
gi = yellow
or = orange
rs = pink
Signal horn activation, Steering column electronics control module, Driver airbag igniter

- F350  Spiral spring
- H  Signal horn activation
- J234  Airbag control module
- J519  Vehicle electrical control module system
- J527  Steering column electronics control module
- J623  Engine control module
- N95  Driver airbag igniter
- T4k  4-pin connector
- T12k  12-pin connector
- T16r  16-pin connector
- T50  50-pin connector
- T75  75-pin connector
- B441  Cruise control connection (in main wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
tl = lilac
vl = lilac
g = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Turn signal switch, Headlamp dimmer/flasher switch,
Windshield wiper intermittent mode switch, Rear window
wiper switch, Windshield wiper intermittent regulator,
Windshield and headlamp washer pump switch, Cruise
control switch, Multifunction indicator selection switch,
Multifunction indicator memory switch, Cruise control -SET-
button, Steering column electronics control module

- E2  Turn signal switch
- E4  Headlamp dimmer/flasher switch
- E22 Windshield wiper intermittent mode switch
- E34 Rear window wiper switch
- E38 Windshield wiper intermittent regulator
- E44 Windshield and headlamp washer pump switch
- E45 Cruise control switch
- E86 Multifunction indicator selection switch
- E109 Multifunction indicator memory switch
- E227 Cruise control -SET- button
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- T8bk 6-pin connector
- T8ae 8-pin connector
- T9b 9-pin connector

* Only for vehicles with multifunction display
*2 Only for vehicles with cruise control

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

https://www.automotive-manuals.net/
Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp bulb, Left position lamp bulb, Left front turn signal bulb, Left low beam headlamp bulb, Left high beam headlamp bulb, Left front side marker lamp bulb

- J519  Vehicle electrical control module system
- L22   Left front fog lamp bulb
- L148  Left cornering lamp bulb
- L174  Left daytime running lamp bulb
- M1    Left position lamp bulb
- M5    Left front turn signal bulb
- M29   Left low beam headlamp bulb
- M30   Left high beam headlamp bulb
- M33   Left front side marker lamp bulb
- T2bc  Double connector
- T10i  10-pin connector, on the left headlamp
- T52a  52-pin connector
- T52c  52-pin connector
- 125   Ground connection 3 (in headlamp wiring harness)
- 376   Ground connection 11 (in main wiring harness)
- 381   Ground connection 16 (in main wiring harness)
- 392   Ground connection 27 (in main wiring harness)
- 655   Ground connection on left headlamp
- A6    Left turn signal positive connection (in instrument panel wiring harness)
- B144  Positive connection (58L) (in interior wiring harness)
- C69   Fog lamp connection (in left front wiring harness)

* Only for vehicles with fog lamps
Instrument panel and switch illumination dimmer switch, Back-up lamp switch, Engine hood contact switch, High tone horn, Low tone horn, Dual tone horn relay

- E20: Instrument panel and switch illumination dimmer switch
- F4: Back-up lamp switch
- F266: Engine hood contact switch
- H2: High tone horn
- H7: Low tone horn
- J4: Dual tone horn relay
- J519: Vehicle electrical control module system
- L105: Lighting control illumination bulb
- T2n: Double connector, near the left headlamp
- T8e: 8-pin connector
- T52a: 52-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector

Ground connection
- 376: Ground connection 11 (in main wiring harness)
- 378: Ground connection 13 (in main wiring harness)
- A90: Dual tone horn connection (in instrument panel wiring harness)
- B521: Dual tone horn connection (in main wiring harness)
* not for vehicles with dual clutch transmission

Legend:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Right front fog lamp bulb, Right cornering lamp bulb, Right position lamp bulb, Right front turn signal bulb, Right low beam headlamp bulb, Right high beam headlamp bulb, Right front side marker lamp bulb

J519  Vehicle electrical control module system
L23   Right front fog lamp bulb
L149  Right cornering lamp bulb
L175  Right daytime running lamp bulb
M3    Right position lamp bulb
M7    Right front turn signal bulb
M31   Right low beam headlamp bulb
M32   Right high beam headlamp bulb
M34   Right front side marker lamp bulb
T2bd  Double connector
T10j  10-pin connector, on the right headlamp
T52a  52-pin connector
T52c  52-pin connector

240  Ground connection 4 (in headlamp wiring harness)
373  Ground connection 8 (in main wiring harness)
378  Ground connection 13 (in main wiring harness)
393  Ground connection 28 (in main wiring harness)
656  Ground connection on right headlamp
A5   Right turn signal positive connection (in instrument panel wiring harness)
B143 Positive connection (58R) (in interior wiring harness)
B166 Connection 56a (in interior wiring harness)
B167 Connection 56b (in interior wiring harness)
D59  Fog lamp connection (in engine compartment wiring harness)

* Only for vehicles with fog lamps

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

https://www.automotive-manuals.net/
Light switch, Fog lamp switch, Fog lamp indicator lamp, Automatic light control indicator lamp

- **E1** Light switch
- **E7** Fog lamp switch
- **J519** Vehicle electrical control module system
- **K17** Fog lamp indicator lamp
- **K209** Automatic light control indicator lamp
- **L9** Headlamp switch illumination bulb
- **T10h** 10-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector

* Only for vehicles with fog lamps
*2 Only for vehicles with automatic headlamp assist

---

**Legend**

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

---

**Diagram Elements**

- **J519** Vehicle electrical control module system
- **B340** Connection 58d (in main wiring harness) 1
- **ws/sw** = white/black
- **vi** = violet
- **gr** = grey
- **ge** = yellow
- **or** = orange
- **rs** = pink

---

https://www.automotive-manuals.net/
Right tail lamp bulb, Left tail lamp bulb, Left rear turn signal bulb, Right rear turn signal bulb, Left back-up lamp bulb, Right back-up lamp bulb, Left brake/tail lamp bulb, Right brake/tail lamp bulb

J519  Vehicle electrical control module system
M2   Right tail lamp bulb
M4   Left tail lamp bulb
M6   Left rear turn signal bulb
M8   Right rear turn signal bulb
M16  Left back-up lamp bulb
M17  Right back-up lamp bulb
M21  Left brake/tail lamp bulb
M22  Right brake/tail lamp bulb
T3au  3-pin connector
T3av  3-pin connector
T3aw  3-pin connector
T3ax  3-pin connector
T5a   5-pin connector, in the left rear side panel
T5c   5-pin connector, in the left rear side panel
T5e   5-pin connector, in the left rear side panel
T52a  52-pin connector
T52c  52-pin connector
86    Ground connection 1 (in rear wiring harness)
98    Ground connection (in rear lid wiring harness)
369   Ground connection 4 (in main wiring harness)
662   Ground connection in left rear side panel
682   Ground connection 2 in right rear side panel
A87   Back-up lamp connection (in instrument panel wiring harness)

ws = white
sw = black
ro = red
tt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ey = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Rear window defogger relay, Driver exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror turn signal bulb, High-mounted brake lamp bulb, Left license plate lamp, Right license plate lamp, Rear window defogger

J9  Rear window defogger relay
J386  Driver door control module
J387  Front passenger door control module
J519  Vehicle electrical control module system
L131  Driver exterior rearview mirror turn signal bulb
L132  Front passenger exterior rearview mirror turn signal bulb
M25  High-mounted brake lamp bulb
T2ac  Double connector
T2ah  Double connector, under the right rear bumper
T5a  5-pin connector, in the left rear side panel
T8l  8-pin connector
T16a  16-pin connector
T16g  16-pin connector
T20a  20-pin connector
T20b  20-pin connector
T28  28-pin connector, in the left A-pillar connector station
T28a  28-pin connector, in the left A-pillar connector station
T52a  52-pin connector
T52b  52-pin connector
T52c  52-pin connector
X4  Left license plate lamp
X5  Right license plate lamp
Z1  Rear window defogger

86  Ground connection 1 (in rear wiring harness)
98  Ground connection (in rear lid wiring harness)
205  Ground connection (in driver door wiring harness)
206  Ground connection (in front passenger door wiring harness)
345  Ground connection (in bumper wiring harness)
W41  Positive connection (58) (in license plate lamp wiring harness)

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

* Refer to applicable wiring diagram for radio/radio navigation system
*2 Only for vehicles with park distance control (PDC)

https://www.automotive-manuals.net/
Emergency flasher button, Left washer nozzle heater, Right washer nozzle heater

- E229 Emergency flasher button
- J519 Vehicle electrical control module system
- K6 Emergency flasher indicator lamp
- T6 6-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- Z20 Left washer nozzle heater
- Z21 Right washer nozzle heater

- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- C72 Positive connection (in heated spray nozzle wiring harness)

* Only for vehicles with heated spray nozzles
*2 Only for vehicles with footwell lamp

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

https://www.automotive-manuals.net/
Rain/light recognition sensor, Wiper motor control module, Rear window wiper motor, Windshield and rear window washer pump, Driver windshield wiper motor

- G397 Rain/light recognition sensor
- J400 Wiper motor control module
- J519 Vehicle electrical control module system
- T3ae 3-pin connector
- T4q 4-pin connector
- T4u 4-pin connector
- T5e 5-pin connector, in the left rear side panel
- T52a 52-pin connector
- T52b 52-pin connector
- V12 Rear window wiper motor
- V59 Windshield and rear window washer pump
- V216 Driver windshield wiper motor

- 387 Ground connection 22 (in main wiring harness)
- B183 Windshield washer pump connection 1 (in interior wiring harness)
- B184 Windshield washer pump connection 2 (in interior wiring harness)
- B528 LIN bus connection 1 (in main wiring harness)

* Only for vehicles with rain/light recognition sensor
*2 The color of the wires depends on vehicle equipment

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Glove compartment lamp switch, Brake lamp switch, Luggage compartment lamp, Glove compartment lamp

- E26 Glove compartment lamp switch
- F Brake lamp switch
- F256 Rear lid lock unit
- J519 Vehicle electrical control module system
- J623 Engine control module
- T4ab 4-pin connector
- T4bc 4-pin connector
- T5c 5-pin connector, in the left rear side panel
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W3 Luggage compartment lamp
- W6 Glove compartment lamp

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
387 Ground connection 22 (in main wiring harness)
389 Ground connection 24 (in main wiring harness)
605 Ground connection on upper steering column
B131 Connection 54 (in interior wiring harness)
B559 Positive connection 1 (30g) (in main wiring harness)
* Refer to applicable engine wiring diagram
*2 Only for vehicles with rain/light recognition sensor
*3 Only for vehicles with footwell lamp

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

https://www.automotive-manuals.net/
Front interior lamp, Left rear reading lamp, Right rear reading lamp, Front passenger reading lamp, Rear interior lamp, Driver reading lamp

- J519: Vehicle electrical control module system
- L156: Switch illumination bulb
- T5y: 5-pin connector
- T6a: 6-pin connector
- T6b: 6-pin connector
- T8d: 8-pin connector, near the front interior lamp
- T52c: 52-pin connector
- W1: Front interior lamp
- W11: Left rear reading lamp
- W12: Right rear reading lamp
- W13: Front passenger reading lamp
- W19: Driver reading lamp
- W43: Rear interior lamp
- Y7: Automatic dimming interior rearview mirror
- 347: Ground connection (in roof wiring harness)
- 380: Ground connection 15 (in main wiring harness)
- 389: Ground connection 24 (in main wiring harness)
- B154: Connection TK (in interior wiring harness) 1
- B250: Positive connection (in roof wiring harness)
- B559: Positive connection 1 (30g) (in main wiring harness)
- B603: Positive connection 2 (30g) (in main wiring harness)
- *: Only for vehicles with automatic dimming interior rearview mirror
- *2: Flat conductor
- *3: Only for vehicles with brake pad wear indicator

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

https://www.automotive-manuals.net/
Driver vanity mirror lamp contact switch, Front passenger vanity mirror lamp contact switch, Blocking diode, Cigarette lighter illumination bulb, Cigarette lighter, 12 V socket, Left footwell lamp, Right footwell lamp, Front passenger vanity mirror lamp, Driver vanity mirror lamp

F147 Driver vanity mirror lamp contact switch
F148 Front passenger vanity mirror lamp contact switch
J29 Blocking diode
J519 Vehicle electrical control module system
L28 Cigarette lighter illumination bulb
T52b 52-pin connector
U1 Cigarette lighter
U5 12 V socket
W9 Left footwell lamp
W10 Right footwell lamp
W14 Front passenger vanity mirror lamp
W20 Driver vanity mirror lamp

47 Ground connection in right front footwell
347 Ground connection (in roof wiring harness)
383 Ground connection 18 (in main wiring harness)
390 Ground connection 25 (in main wiring harness)
682 Ground connection 2 in right rear side panel
B250 Positive connection (in roof wiring harness)
B348 Connection 75a (in main wiring harness) 1
B433 Footwell illumination connection (in main wiring harness)

* Only for vehicles with illuminated vanity mirror
*2 Flat conductor
*3 Only for vehicles with footwell lamp

ws = white
sw = black
ro = red
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bl = blue
gr = grey
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https://www.automotive-manuals.net/
Fresh air blower switch, Heater/heat output switch, Fresh air blower series resistor with fuse, Recirculation door motor

- E9  Fresh air blower switch
- E16  Heater/heat output switch, in the engine compartment, right
- E159 Fresh air/recirculation door switch
- E230 Rear window defogger button
- G143 Recirculation door motor position sensor
- J519 Vehicle electrical control module system
- K10  Rear window defogger indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- L16  Fresh air control illumination bulb
- N24  Fresh air blower series resistor with fuse
- T4f  4-pin connector
- T5  5-pin connector
- T6k  6-pin connector
- T10k 10-pin connector, behind the instrument panel, right
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- V2  Fresh air blower
- V113 Recirculation door motor

- 602 Ground connection in left front footwell
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)

* Only for vehicles with auxiliary water heater

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

https://www.automotive-manuals.net/
Data bus on board diagnostic interface, Diagnostic connection

- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T52c** 52-pin connector
- **U31** Diagnostic connection
- **A76** KS-diagnostic lead connection (in instrument panel wiring harness)
- **A178** Infotainment CAN bus high connection (in instrument panel wiring harness)
- **A179** Infotainment CAN bus low connection (in instrument panel wiring harness)
- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398** Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407** Comfort system CAN bus low connection 2 (in main wiring harness)

---

**Legend:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
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- **or** = orange
- **rs** = pink

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**Source:** [https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Anti-theft immobilizer reader coil, Brake fluid level warning switch, Warning buzzer and tone, Instrument cluster control module, Cruise control indicator lamp, Anti-theft immobilizer indicator lamp, Door ajar indicator lamp, Lamp failure indicator lamp, Hood -open- indicator lamp

- **D2** Anti-theft immobilizer reader coil
- **F34** Brake fluid level warning switch
- **H3** Warning buzzer and tone
- **J245** Power sunroof control module
- **J285** Instrument cluster control module
- **J362** Anti-theft immobilizer control module
- **K31** Cruise control indicator lamp
- **K32** Brake pad wear indicator lamp
- **K117** Anti-theft immobilizer indicator lamp
- **K166** Door ajar indicator lamp
- **K170** Lamp failure indicator lamp
- **K171** Hood -open- indicator lamp
- **T6c** 6-pin connector
- **T32** 32-pin connector
- * Speed signal
- *2 only for vehicles with access/start authorization system
- *3 Only for vehicles without access/start authorization system

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* gr = grey
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* ge = yellow
* or = orange
* rs = pink

[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Parking brake indicator lamp switch, Tachometer, Speedometer, Windshield washer fluid level sensor, Left front brake pad wear sensor, Instrument cluster control module, High beam indicator lamp, Windshield washer fluid level indicator lamp

- F1 Oil pressure switch
- F9 Parking brake indicator lamp switch
- G5 Tachometer
- G21 Speedometer
- G33 Windshield washer fluid level sensor
- G34 Left front brake pad wear sensor
- J285 Instrument cluster control module
- K1 High beam indicator lamp
- K2 Generator indicator lamp
- K3 Oil pressure indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K37 Windshield washer fluid level indicator lamp
- K65 Indicator lamp for left turn signal
- K94 Right turn signal indicator lamp
- K105 Low fuel level indicator lamp
- K118 Brake system indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

**Legend:**
- 410 Sensor ground connection 1 (in main wiring harness)
- (B379) Brake wear indicator connection 1 (in main wiring harness)
- (B380) Brake wear indicator connection 2 (in main wiring harness)
- * Only for vehicles with brake pad wear indicator

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vl = lilac  
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or = orange  
rs = pink

https://www.automotive-manuals.net/
Fuel gauge, Engine coolant temperature gauge, Outside air temperature sensor, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Position lamp indicator lamp, Rear fog lamp indicator lamp, Engine electronics indicator lamp, Odometer display

- **G**: Fuel level sensor
- **G1**: Fuel gauge
- **G3**: Engine coolant temperature gauge
- **G6**: Transfer fuel pump
- **G17**: Outside air temperature sensor
- **G32**: Engine coolant level sensor
- **J119**: Multifunction indicator
- **J285**: Instrument cluster control module
- **J538**: Fuel pump control module
- **K4**: Position lamp indicator lamp
- **K13**: Rear fog lamp indicator lamp
- **K149**: Engine electronics indicator lamp
- **T2z**: Double connector
- **T5b**: 5-pin connector
- **T10n**: 10-pin connector
- **T32**: 32-pin connector
- **Y4**: Odometer display

Sensor ground connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
Comfort system (NAR), (0A1),(8G1)
from November 2010
Terminal 15 power supply relay, Fuse panel B, Fuse 5 (on fuse panel A), Fuse panel C

- **A**: Battery
- **B**: Starter
- **J329**: Terminal 15 power supply relay
- **J682**: Terminal 50 power supply relay
- **SB**: Fuse panel B
- **SC4**: Fuse 4 (on fuse panel C)
- **SA5**: Fuse 5 (on fuse panel A)
- **SB7**: Fuse 7 (on fuse panel B)
- **SC12**: Fuse 12 (on fuse panel C)
- **SC15**: Fuse 15 (on fuse panel C)
- **SC17**: Fuse 17 (on fuse panel C)
- **SC23**: Fuse 23 (on fuse panel C)
- **SC26**: Fuse 26 (on fuse panel C)
- **SB29**: Fuse 29 (on fuse panel B)
- **SC**: Fuse panel C
- **SC33**: Fuse 33 (on fuse panel C)
- **T40**: 40-pin connector

- **508**: Terminal 30 threaded connection (on E-box)
- **A1**: Positive connection (30a) (in instrument panel wiring harness)
- **A217**: Positive connection 8 (15a) (in instrument panel wiring harness)
- **B111**: Positive connection 1 (30a) (in interior wiring harness)
- **B163**: Positive connection 1 (15) (in interior wiring harness)
- **B169**: Positive connection 1 (30) (in interior wiring harness)
- **B318**: Positive connection 4 (30a) (in main wiring harness)
- **B503**: Positive connection 7 (30a) (in interior wiring harness)
- **B511**: Positive connection 7 (30a) (in interior wiring harness)

* Only for vehicles with a sunroof
*2 Only for vehicles with automatic dimming interior rearview mirror
*3 For vehicles with anti-theft alarm system
*4 Only for vehicles with high beam assist
*5 through April 2011

ws = white
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gn = green
bl = blue
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li = lilac
vi = lilac
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rs = pink

[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Left front window regulator switch, Right front power window switch in driver door, Driver interior locking button, Driver door contact switch, Driver central locking lock unit, Driver door control module, Central locking -SAFE- indicator lamp, Driver door central locking system motor, Driver window regulator motor

- **E40** Left front window regulator switch
- **E81** Right front power window switch in driver door
- **E308** Driver interior locking button
- **F2** Driver door contact switch
- **F220** Driver central locking lock unit
- **J386** Driver door control module
- **K133** Central locking -SAFE- indicator lamp
- **K174** Driver interior locking indicator lamp
- **L76** Push button illumination bulb
- **T2u** Double connector, in the driver door
- **T4am** 4-pin connector
- **T4an** 4-pin connector
- **T8aa** 8-pin connector
- **T20a** 20-pin connector
- **T28** 28-pin connector, in the left A-pillar connector station
- **T32a** 32-pin connector
- **V56** Driver door central locking system motor
- **V147** Driver window regulator motor

- **267** Ground connection 2 (in driver door wiring harness)
- **R10** Positive connection 1 (30) (in driver door wiring harness)
- **R75** Connection 58d (in door control module wiring harness) 1

* through April 2011
*2 from May 2011

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Mirror adjusting switch, Mirror selector switch, Exterior rearview mirror heating switch, Mirror folding switch, Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Driver door control module, Driver exterior rearview mirror turn signal bulb, Driver mirror adjustment motor 2, Driver exterior rearview mirror folding motor, Heated driver exterior rearview mirror

E43 Mirror adjusting switch
E48 Mirror selector switch
E231 Exterior rearview mirror heating switch
E263 Mirror folding switch
G791 Exterior rearview mirror horizontal adjustment position sensor
G792 Exterior rearview mirror vertical adjustment position sensor
J386 Driver door control module
L78 Mirror adjustment switch illumination bulb
L131 Driver exterior rearview mirror turn signal bulb
T2ab Double connector
T3ay 3-pin connector
T3g 3-pin connector
T6al 6-pin connector
T16a 16-pin connector
T20a 20-pin connector
T28 28-pin connector, in the left A-pillar connector station
T32a 32-pin connector
V17 Driver mirror adjustment motor 2
V121 Driver exterior rearview mirror folding motor
V149 Driver mirror adjustment motor
Z4 Heated driver exterior rearview mirror

Ground connection on A-pillar, lower left
Ground connection 2 (in driver door wiring harness)

ws = white
sw = black
ro = red
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gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Driver door control module, Front passenger exterior rearview mirror turn signal bulb, Driver entry lamp in exterior rearview mirror, Front passenger entry lamp in exterior rearview mirror, Driver automatic dimming exterior rearview mirror, Heated front passenger exterior rearview mirror

- J386: Driver door control module
- J387: Front passenger door control module
- J533: Data bus on board diagnostic interface
- L132: Front passenger exterior rearview mirror turn signal bulb
- T2ad: Double connector, on the mirror
- T3az: 3-pin connector
- T16a: 16-pin connector
- T16g: 16-pin connector
- T20: 20-pin connector
- T20a: 20-pin connector
- T20b: 20-pin connector
- T28: 28-pin connector, in the left A-pillar connector station
- T28a: 28-pin connector, in the connector station, right A-pillar
- W52: Driver entry lamp in exterior rearview mirror
- W53: Front passenger entry lamp in exterior rearview mirror
- Y20: Driver automatic dimming exterior rearview mirror
- Z5: Heated front passenger exterior rearview mirror

- 206: Ground connection (in front passenger door wiring harness)
- B383: Powertrain CAN bus high connection 1 (in main wiring harness)
- B390: Powertrain CAN bus low connection 1 (in main wiring harness)
- B397: Comfort system CAN bus high connection 1 (in main wiring harness)
- B398: Comfort system CAN bus high connection 2 (in main wiring harness)
- B406: Comfort system CAN bus low connection 1 (in main wiring harness)
- B407: Comfort system CAN bus low connection 2 (in main 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 = lilac
- vl = lilac
- ge = yellow
- or = orange
- rs = pink

* Only for vehicles with automatic dimming exterior rearview mirror
*2 Only for vehicles with high beam assist
*3 through April 2011
*4 from May 2011
Front passenger door window regulator switch, Front passenger door contact switch, Front passenger central locking lock unit, Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Front passenger side mirror adjustment motor 2, Front passenger door central locking system motor, Front passenger exterior rearview mirror folding motor, Front passenger window regulator motor

E107  Front passenger door window regulator switch
F3    Front passenger door contact switch
F221  Front passenger central locking lock unit
G791  Exterior rearview mirror horizontal adjustment position sensor
G792  Exterior rearview mirror vertical adjustment position sensor
J387  Front passenger door control module
J519  Vehicle electrical control module system
L76   Push button illumination bulb
T2ae  Double connector
T3h   3-pin connector
T4bb  4-pin connector
T8ab  8-pin connector
T16g  16-pin connector
T20b  20-pin connector
T28a  28-pin connector, in the connector station, right A-pillar
T32b  32-pin connector
T52b  52-pin connector
T52c  52-pin connector
V25   Front passenger side mirror adjustment motor 2
V57   Front passenger door central locking system motor
V122  Front passenger exterior rearview mirror folding motor
V148  Front passenger window regulator motor
V150  Front passenger mirror adjustment motor

47  Ground connection in right front footwell

* Depending on equipment
*2 Only for vehicles with folding mirrors

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink
Release button in rear lid handle, Luggage compartment lamp switch, Central locking and anti-theft alarm system antenna, Rear lid unlock motor, Fuel filler door unlock motor, Luggage compartment lamp

- E234 Release button in rear lid handle
- F5 Luggage compartment lamp switch
- J519 Vehicle electrical control module system
- R47 Central locking and anti-theft alarm system antenna
- T4ab 4-pin connector
- T4br 4-pin connector, behind the right C-pillar trim panel
- T4bs 4-pin connector
- T5a 5-pin connector, in the left rear side panel
- T5c 5-pin connector, in the left rear side panel
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V139 Rear lid unlock motor
- V155 Fuel filler door unlock motor
- W3 Luggage compartment lamp

- 86 Ground connection 1 (in rear wiring harness)
- 98 Ground connection (in rear lid wiring harness)
- 195 Ground connection (in rear door contact switch wiring harness)
- 369 Ground connection 4 (in main wiring harness)
- 662 Ground connection in left rear side panel
- 682 Ground connection 2 in right rear side panel
- B486 Connection 22 (in main wiring harness)
- B559 Positive connection 1 (30g) (in main wiring harness)

* Only for vehicles without a rearview camera system
*2 Only for vehicles with a rearview camera system
*3 through April 2011
*4 from May 2011

Color codes:
- ws = white
- sw = black
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- rs = pink

https://www.automotive-manuals.net/
Automatic dimming interior rearview mirror switch, Light recognition sensor, Automatic high beam assist control module, Automatic dimming interior rearview mirror

- E386 Automatic dimming interior rearview mirror switch
- G399 Light recognition sensor
- J519 Vehicle electrical control module system
- J844 Automatic high beam assist control module
- T6a 6-pin connector
- T6b 6-pin connector
- T8ak 8-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior lamp
- Y7 Automatic dimming interior rearview mirror

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 380 Ground connection 15 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- A87 Back-up lamp connection (in instrument panel wiring harness)

* from May 2011
*2 Only for vehicles with automatic dimming interior rearview mirror
*3 Only for vehicles with automatic dimming exterior rearview mirror
*4 Only for vehicles with high beam assist

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Wiring Diagram

Golf

https://www.automotive-manuals.net/
Comfort system (NAR), (0A2), (8G1)
from November 2010
Fuse 5 (on fuse panel A), Fuse panel C

A Battery
B Starter
SA5 Fuse 5 (on fuse panel A)
SC Fuse panel C
SC12 Fuse 12 (on fuse panel C)
SC15 Fuse 15 (on fuse panel C)
SC17 Fuse 17 (on fuse panel C)
SC23 Fuse 23 (on fuse panel C)
SC26 Fuse 26 (on fuse panel C)

508 Terminal 30 threaded connection (on E-box)

A1 Positive connection (30a) (in instrument panel wiring harness)
A62 Power window connection (in instrument panel wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B318 Positive connection 4 (30a) (in main wiring harness)
B503 Positive connection 7 (30a) (in interior wiring harness)
S25 Positive connection (30a) (in central locking system wiring harness)

* For vehicles with anti-theft alarm system
*2 through April 2011
*3 from May 2011
*4 Only for vehicles with rear power windows

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sw = black
ro = red
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gr = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Driver door control module, Fuse panel B, Fuse panel C, Driver window regulator motor

- J329 Terminal 15 power supply relay
- J386 Driver door control module
- J682 Terminal 50 power supply relay
- SB Fuse panel B
- SC Fuse panel C
- SC4 Fuse 4 (on fuse panel C)
- SB7 Fuse 7 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- SC33 Fuse 33 (on fuse panel C)
- T20a 20-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- T40 40-pin connector
- V147 Driver window regulator motor

- 44 Ground connection on A-piller, lower left
- 399 Ground connection 34 (in main wiring harness)
- 508 Terminal 30 threaded connection (on E-box)
- A217 Positive connection 8 (15a) (in instrument panel wiring harness)
- B111 Positive connection 1 (30a) (in interior wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- R10 Positive connection 1 (30) (in driver door wiring harness)
  - Only for vehicles with a sunroof
  - *2 Only for vehicles with automatic dimming interior rearview mirror
  - *3 Only for vehicles with high beam assist
  - *4 through April 2011
  - *5 from May 2011

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https://www.automotive-manuals.net/
Left front window regulator switch, Left rear window regulator switch in driver door, Right rear window regulator switch in driver door, Right front power window switch in driver door, Child safety lock button, Driver door contact switch, Driver central locking lock unit, Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Driver door control module, Driver mirror adjustment motor 2, Driver door central locking system motor

- E40: Left front window regulator switch
- E53: Left rear window regulator switch in driver door
- E55: Right rear window regulator switch in driver door
- E81: Right front power window switch in driver door
- E318: Child safety lock button
- F2: Driver door contact switch
- F220: Driver central locking lock unit
- G791: Exterior rearview mirror horizontal adjustment position sensor
- G792: Exterior rearview mirror vertical adjustment position sensor
- J386: Driver door control module
- K236: Child safety lock -activated- indicator lamp
- L76: Push button illumination bulb
- T3g: 3-pin connector
- T8aa: 8-pin connector
- T10ad: 10-pin connector
- T16a: 16-pin connector
- T20a: 20-pin connector
- T32a: 32-pin connector
- V17: Driver mirror adjustment motor 2
- V56: Driver door central locking system motor
- V149: Driver mirror adjustment motor

- 267: Ground connection 2 (in driver door wiring harness)
- R75: Connection 58d (in door control module wiring harness) 1

* Depending on equipment
*2 Only for vehicles with front power windows
*3 Only for vehicles with rear power windows

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- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Left front window regulator switch, Right front power window switch in driver door, Driver interior locking button, Driver door control module, Central locking -SAFE- indicator lamp, Driver exterior rearview mirror turn signal bulb, Driver exterior rearview mirror folding motor, Driver entry lamp in exterior rearview mirror, Driver automatic dimming exterior rearview mirror, Heated driver exterior rearview mirror

- E40: Left front window regulator switch
- E81: Right front power window switch in driver door
- E308: Driver interior locking button
- J386: Driver door control module
- K133: Central locking -SAFE- indicator lamp
- K174: Driver interior locking indicator lamp
- L76: Push button illumination bulb
- L131: Driver exterior rearview mirror turn signal bulb
- T2ab: Double connector
- T2ad: Double connector, on the mirror
- T2u: Double connector, in the driver door
- T3ay: 3-pin connector
- T4am: 4-pin connector
- T4an: 4-pin connector
- T16a: 16-pin connector
- T20a: 20-pin connector
- T28: 28-pin connector, in the left A-pillar connector station
- T32a: 32-pin connector
- V121: Driver exterior rearview mirror folding motor
- W52: Driver entry lamp in exterior rearview mirror
- Y20: Driver automatic dimming exterior rearview mirror
- Z4: Heated driver exterior rearview mirror

- 205: Ground connection (in driver door wiring harness)
- 267: Ground connection 2 (in driver door wiring harness)
- R75: Connection 58d (in door control module wiring harness) 1

* Only for vehicles with folding mirrors
*2 Only for vehicles with front power windows
*3 Only for vehicles with automatic dimming exterior rearview mirror
*4 Only for vehicles with rear power windows
*5 Only for vehicles with high beam assist

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

https://www.automotive-manuals.net/
Mirror adjusting switch, Mirror selector switch, Front passenger door window regulator switch, Exterior rearview mirror heating switch, Mirror folding switch, Driver door control module, Front passenger exterior rearview mirror turn signal bulb, Heated front passenger exterior rearview mirror

- E43 Mirror adjusting switch
- E48 Mirror selector switch
- E107 Front passenger door window regulator switch
- E231 Exterior rearview mirror heating switch
- E263 Mirror folding switch
- J386 Driver door control module
- J387 Front passenger door control module
- J333 Data bus on board diagnostic interface
- L76 Push button illumination bulb
- L78 Mirror adjustment switch illumination bulb
- L132 Front passenger exterior rearview mirror turn signal bulb
- T3az 3-pin connector
- T4bb 4-pin connector
- T6al 6-pin connector
- T16g 16-pin connector
- T20 20-pin connector
- T20a 20-pin connector
- T20b 20-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- T28a 28-pin connector, in the connector station, right A-pillar
- T32a 32-pin connector
- T32b 32-pin connector
- Z5 Heated front passenger exterior rearview mirror

- 206 Ground connection (in front passenger door wiring harness)
- 267 Ground connection 2 (in driver door wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)

* Only for vehicles with folding mirrors
*2 Only for vehicles with automatic dimming exterior rearview mirror
*3 Only for vehicles with high beam assist

- ws = white
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = violet
- ge = yellow
- or = orange
- rs = pink
Front passenger door contact switch, Front passenger central locking lock unit, Exterior rearview mirror horizontal adjustment position sensor, Exterior rearview mirror vertical adjustment position sensor, Front passenger side mirror adjustment motor 2, Front passenger door central locking system motor, Front passenger exterior rearview mirror folding motor, Front passenger window regulator motor, Front passenger entry lamp in exterior rearview mirror

- **F3**: Front passenger door contact switch
- **F221**: Front passenger central locking lock unit
- **G791**: Exterior rearview mirror horizontal adjustment position sensor
- **G792**: Exterior rearview mirror vertical adjustment position sensor
- **J387**: Front passenger door control module
- **T2ae**: Double connector
- **T3h**: 3-pin connector
- **T8ab**: 8-pin connector
- **T16g**: 16-pin connector
- **T20b**: 20-pin connector
- **T28a**: 28-pin connector, in the connector station, right A-pillar
- **V25**: Front passenger side mirror adjustment motor 2
- **V57**: Front passenger door central locking system motor
- **V122**: Front passenger exterior rearview mirror folding motor
- **V148**: Front passenger window regulator motor
- **V150**: Front passenger mirror adjustment motor
- **W53**: Front passenger entry lamp in exterior rearview mirror

- **47**: Ground connection in right front footwell
- **459**: Ground connection 15 (in interior wiring harness)
- **R16**: Positive connection 1 (30) (in front passenger door wiring harness)

- Depending on equipment
- *2 Only for vehicles with folding mirrors
- *3 through April 2011
- *4 from May 2011
- *5 Only for vehicles with rear power windows

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ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
bl = blue  
gn = green  
bl = blue  
gf = grey  
vi = lilac  
vi = lilac  
ge = yellow  
or = orange  
rs = pink
Wiring Diagram

Left rear power window switch in left rear door, Left rear door contact switch, Left rear central locking lock unit, Left rear door control module, Right rear door control module, Left rear window regulator motor, Left rear central locking -lock-motor

- E52 Left rear power window switch in left rear door
- F10 Left rear door contact switch
- F222 Left rear central locking lock unit
- J388 Left rear door control module
- J389 Right rear door control module
- L76 Push button illumination bulb
- T4ax 4-pin connector
- T8u 8-pin connector
- T18c 18-pin connector
- T18d 18-pin connector
- T28b 28-pin connector, behind the lower left B-pillar trim
- T28c 28-pin connector, behind the lower right B-pillar trim
- V26 Left rear window regulator motor
- V214 Left rear central locking -lock-motor

- **R19** Positive connection 1 (30) (in left rear door wiring harness)
- **R23** Positive connection 1 (30) (in right rear door wiring harness)

* Only for vehicles with front power windows
*2 Only for vehicles with rear power windows
*3 through April 2011
*4 from May 2011

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

https://www.automotive-manuals.net/
Right rear window switch in right rear door, Left rear door contact switch, Right rear door contact switch, Left rear central locking lock unit, Right rear central locking lock unit, Right rear door control module, Right rear window regulator motor, Left rear central locking -lock- motor, Right rear central locking -lock- motor

E54 Right rear window switch in right rear door
F10 Left rear door contact switch
F11 Right rear door contact switch
F222 Left rear central locking lock unit
F223 Right rear central locking lock unit
J389 Right rear door control module
J519 Vehicle electrical control module system
L76 Push button illumination bulb
T4ay 4-pin connector
T8t 8-pin connector
T8u 8-pin connector
T18d 18-pin connector
T28b 28-pin connector, behind the lower left B-pillar trim
T28c 28-pin connector, behind the lower right B-pillar trim
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector
V27 Right rear window regulator motor
V214 Left rear central locking -lock- motor
V215 Right rear central locking -lock- motor

* Only for vehicles with front power windows
*2 Only for vehicles with rear power windows

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bl = blue
g = grey
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vi = lilac
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or = orange
rs = pink

https://www.automotive-manuals.net/
Release button in rear lid handle, Luggage compartment lamp switch, Right rear door contact switch, Right rear central locking lock unit, Rear lid unlock motor, Right rear central locking -lock- motor, Luggage compartment lamp

E234  Release button in rear lid handle
F5    Luggage compartment lamp switch
F11   Right rear door contact switch
F223  Right rear central locking lock unit
J519  Vehicle electrical control module system
T4ab  4-pin connector
T4br  4-pin connector, behind the right C-pillar trim panel
T4bs  4-pin connector
T5a   5-pin connector, in the left rear side panel
T5c   5-pin connector, in the left rear side panel
T8t   8-pin connector
T28c  28-pin connector, behind the lower right B-pillar trim
T52a  52-pin connector
T52b  52-pin connector
V139  Rear lid unlock motor
V215  Right rear central locking -lock- motor
W3    Luggage compartment lamp

86    Ground connection 1 (in rear wiring harness)
98    Ground connection (in rear lid wiring harness)
195   Ground connection (in rear door contact switch wiring harness)
369   Ground connection 4 (in main wiring harness)
642   Electronic fan control ground connection
682   Ground connection 2 in right rear side panel
B486  Connection 22 (in main wiring harness)
B559  Positive connection 1 (30g) (in main wiring harness)

* Only for vehicles with a rearview camera system
*2 from May 2011
*3 Only for vehicles with front power windows
*4 Only for vehicles without a rearview camera system
*5 through April 2011

*3 Only for vehicles with front power windows
Sunroof adjustment regulator, Sunroof button, Alarm horn, Power sunroof control module, Central locking and anti-theft alarm system antenna, Sunroof motor, Fuel filler door unlock motor

- E139 Sunroof adjustment regulator
- E325 Sunroof button
- H12 Alarm horn
- J245 Power sunroof control module
- J285 Instrument cluster control module
- J519 Vehicle electrical control module system
- R47 Central locking and anti-theft alarm system antenna
- T6am 6-pin connector
- T6c 6-pin connector
- T32 32-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- V1 Sunroof motor
- V155 Fuel filler door unlock motor

44 Ground connection on A-pillar, lower left
373 Ground connection 8 (in main wiring harness)
378 Ground connection 13 (in main wiring harness)
656 Ground connection on right headlamp
B322 Positive connection 8 (30a) (in main wiring harness)

* Only for vehicles with a sunroof
*2 For vehicles with anti-theft alarm system

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

https://www.automotive-manuals.net/
Automatic dimming interior rearview mirror switch, Engine hood contact switch, Automatic dimming interior rearview mirror

- E386 Automatic dimming interior rearview mirror switch
- F266 Engine hood contact switch
- J519 Vehicle electrical control module system
- T2bn Double connector, near the left headlamp
- T6a 6-pin connector
- T6b 6-pin connector
- T8ak 8-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- W1 Front interior lamp
- Y7 Automatic dimming interior rearview mirror
- 44 Ground connection on A-pillar, lower left
- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 367 Ground connection 2 (in main wiring harness)
- 376 Ground connection 11 (in main wiring harness)
- 380 Ground connection 15 (in main wiring harness)
- 381 Ground connection 16 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- 655 Ground connection on left headlamp
- A87 Back-up lamp connection (in instrument panel wiring harness)

* from May 2011
*2 Only for vehicles with automatic dimming interior rearview mirror
*3 Only for vehicles with automatic dimming exterior rearview mirror

ws = white

https://www.automotive-manuals.net/
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink

*4 Only for vehicles with high beam assist
Light recognition sensor, Automatic high beam assist control module, Automatic dimming interior rearview mirror

G399  Light recognition sensor
J844  Automatic high beam assist control module
T8ak  8-pin connector
Y7    Automatic dimming interior rearview mirror

* Only for vehicles with high beam assist

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
2.0L gasoline engine, CRZA
from November 2011
Battery, Starter, Generator with voltage regulator, Voltage regulator, Terminal 15 power supply relay, Vehicle electrical control module system, Terminal 50 power supply relay, Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C)

A  Battery
B  Starter
CX1  Generator with voltage regulator
C1  Voltage regulator
J329  Terminal 15 power supply relay
J519  Vehicle electrical control module system
J682  Terminal 50 power supply relay
SA1  Fuse 1 (on fuse panel A)
SC  Fuse panel C
SC1  Fuse 1 (on fuse panel C)
SC2  Fuse 2 (on fuse panel C)
T4t  4-pin connector, near the starter
T52b  52-pin connector
T52c  52-pin connector

1  Ground strap, battery to body
12  Ground connection in engine compartment, left
508  Terminal 30 threaded connection (on E-box)
652  Transmission/engine ground connection
A45  RPM signal connection (in instrument panel wiring harness)
A192  Positive connection 3 (15a) (in instrument panel wiring harness)
A199  Positive connection 4 (15a) (in instrument panel wiring harness)
B163  Positive connection 1 (15) (in interior wiring harness)
B660  Diagnostic terminal 50 connection (in main wiring harness)

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

https://www.automotive-manuals.net/
Engine component power supply relay, Fuse panel B, Fuse 4 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 27 (on fuse panel C)

- J757  Engine component power supply relay
- SB  Fuse panel B
- SC  Fuse panel C
- SC4  Fuse 4 (on fuse panel C)
- SA5  Fuse 5 (on fuse panel A)
- SB7  Fuse 7 (on fuse panel B)
- SB9  Fuse 9 (on fuse panel B)
- SB10  Fuse 10 (on fuse panel B)
- SB11  Fuse 11 (on fuse panel B)
- SB12  Fuse 12 (on fuse panel B)
- SC27  Fuse 27 (on fuse panel C)

Terminal 30 threaded connection (on E-box)

Positive connection 8 (15a) (in instrument panel wiring harness)

Positive connection 1 (30) (in interior wiring harness)

USA only

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

Wiring Diagram
No. 119 / 3

https://www.automotive-manuals.net/
Auxiliary engine coolant pump relay, Fuse panel B, After-run coolant pump

- J406 Auxiliary engine coolant pump relay
- SB Fuse panel B
- SB15 Fuse 15 (on fuse panel B)
- SB17 Fuse 17 (on fuse panel B)
- SB23 Fuse 23 (on fuse panel B)
- SB27 Fuse 27 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- SB38 Fuse 38 (on fuse panel B)
- SB39 Fuse 39 (on fuse panel B)
- SB40 Fuse 40 (on fuse panel B)
- SB42 Fuse 42 (on fuse panel B)
- SB49 Fuse 49 (on fuse panel B)
- T4by 4-pin connector, near the starter
- T14a 14-pin connector, near the left headlamp
- T26 26-pin connector
- T40 40-pin connector
- V51 After-run coolant pump

- B504 Positive connection 8 (30a) (in interior wiring harness)
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)
- D183 Connection 4 (87a) (in engine compartment wiring harness)
* from June 2010

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

https://www.automotive-manuals.net/
Engine speed sensor, Knock sensor 1, Knock sensor 2, Engine control module

G28 Engine speed sensor
G61 Knock sensor 1
G66 Knock sensor 2
J623 Engine control module
T3v 3-pin connector
T3w 3-pin connector
T3y 3-pin connector, on the front engine mount
T60 60-pin connector
T94 94-pin connector
D103 Connection 3 (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plug connectors, Spark plugs

J623  Engine control module
N70   Ignition coil 1 with power output stage
N127  Ignition coil 2 with power output stage
N291  Ignition coil 3 with power output stage
N292  Ignition coil 4 with power output stage
P     Spark plug connectors
Q     Spark plugs
T14a  14-pin connector
T60   60-pin connector

2     Ground strap, transmission to body
85    Ground connection 1 (in engine compartment wiring harness)
281   Ground connection 1 (in engine pre-wiring harness)
D206  Connection 87a (in engine pre-wiring harness) 4

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

https://www.automotive-manuals.net/
Camshaft position sensor, Intake air temperature sensor, Engine coolant temperature sensor, Fuel pressure sensor, Intake manifold runner position sensor, Low fuel pressure sensor, Engine control module, Intake flap motor

- **G40** Camshaft position sensor
- **G42** Intake air temperature sensor
- **G62** Engine coolant temperature sensor
- **G247** Fuel pressure sensor
- **G336** Intake manifold runner position sensor
- **G410** Low fuel pressure sensor
- **J623** Engine control module
- **T5i** 5-pin connector
- **T6aq** 6-pin connector, on the engine, front
- **T60** 60-pin connector
- **V157** Intake flap motor
  - **220** Sensor ground connection (in engine wiring harness)
  - **D101** Connection 1 (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** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink

[Honda Automotive Manuals](https://www.automotive-manuals.net/)
Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector, Exhaust door valve 1, Leak detection pump

J623  Engine control module
N30   Cylinder 1 fuel injector
N31   Cylinder 2 fuel injector
N32   Cylinder 3 fuel injector
N33   Cylinder 4 fuel injector
N321  Exhaust door valve 1
T3ws  3-pin connector
T8i   8-pin connector, on the engine, front
T60   60-pin connector
T94   94-pin connector
V144  Leak detection pump, in the right rear wheel housing
* USA only

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
gi = yellow
or = orange
rs = pink
Mass airflow sensor, Oxygen sensor after catalytic converter, Engine control module, Wastegate bypass regulator valve, EVAP canister purge regulator valve 1, Turbocharger recirculation valve, Fuel pressure regulator valve, Heater for oxygen sensor 1 after catalytic converter

G70  Mass airflow sensor
G130  Oxygen sensor after catalytic converter
J623  Engine control module
N75  Wastegate bypass regulator valve
N80  EVAP canister purge regulator valve 1
N249  Turbocharger recirculation valve
N276  Fuel pressure regulator valve
T4v  4-pin connector
T5d  5-pin connector
T14a  14-pin connector, near the left headlamp
T60  60-pin connector
T94  94-pin connector
Z29  Heater for oxygen sensor 1 after catalytic converter

D189  Connection 87a (in engine pre-wiring harness)

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

https://www.automotive-manuals.net/
Charge air pressure sensor, Heated oxygen sensor, Engine coolant temperature sensor on radiator outlet, Engine control module

G31 Charge air pressure sensor
G39 Heated oxygen sensor
G83 Engine coolant temperature sensor on radiator outlet
J527 Steering column electronics control module
J623 Engine control module
T4ak 4-pin connector
T4by 4-pin connector, near the starter
T6w 6-pin connector, in the engine compartment, rear
T14a 14-pin connector
T16r 16-pin connector
T94 94-pin connector
V7 Radiator fan
Z19 Oxygen sensor heater

Sensor ground connection (in engine compartment wiring harness)
KS-diagnostic lead connection (in instrument panel wiring harness)
Cruise control connection (in main wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Brake lamp switch, Clutch position sensor, Radiator fan control module, Engine control module, Camshaft adjustment valve 1

- Brake lamp switch
- Clutch position sensor
- Radiator fan control module
- Engine control module
- Camshaft adjustment valve 1
- Fuse 3 (on fuse panel A)
- 4-pin connector
- 4-pin connector, on the coolant fan
- 5-pin connector
- 14-pin connector, near the left headlamp
- 60-pin connector
- 94-pin connector
- Radiator fan
- Radiator fan 2
- Ground connection on A-pillar, lower left
- Ground connection 2 (in main wiring harness)
- Ground connection 24 (in main wiring harness)
- Ground connection on upper steering column
- Electronic fan control ground connection
- Connection 54 (in interior wiring harness)
- Connection 87a (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Oil pressure switch, Charge air pressure gauge, ABS control module, Vehicle electrical control module system, Data bus on board diagnostic interface, Engine control module, Structure borne sound control module, Instrument cluster, Structure-borne sound actuator, Diagnostic connection

**F1** Oil pressure switch
**G30** Charge air pressure gauge
**J104** ABS control module
**J285** Instrument cluster control module
**J519** Vehicle electrical control module system
**J533** Data bus on board diagnostic interface
**J623** Engine control module
**J869** Structure borne sound control module
**K** Instrument cluster
**R214** Structure-borne sound actuator
**T12ab** 12-pin connector
**T14a** 14-pin connector, near the left headlamp
**T16** 16-pin connector
**T20** 20-pin connector
**T32** 32-pin connector
**T47c** 47-pin connector
**T52c** 52-pin connector
**T94** 94-pin connector
**U31** Diagnostic connection

**B383** Powertrain CAN bus high connection 1 (in main wiring harness)
**B390** Powertrain CAN bus low connection 1 (in main wiring harness)
**B397** Comfort system CAN bus high connection 1 (in main wiring harness)
**B398** Comfort system CAN bus high connection 2 (in main wiring harness)
**B406** Comfort system CAN bus low connection 1 (in main wiring harness)
**B407** Comfort system CAN bus low connection 2 (in main wiring harness)

* Refer to applicable ABS wiring diagram

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

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https://www.automotive-manuals.net/
Fuel gauge, Outside air temperature sensor, Warning buzzer and tone, Instrument cluster, Oil pressure indicator lamp, Cruise control indicator lamp, Oil level indicator lamp, Malfunction indicator lamp, Low fuel level indicator lamp, Electronic power control malfunction indicator lamp

- **G1** Fuel gauge
- **G17** Outside air temperature sensor
- **G32** Engine coolant level sensor
- **G266** Oil level thermal sensor
- **H3** Warning buzzer and tone
- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **K** Instrument cluster
- **K3** Oil pressure indicator lamp
- **K31** Cruise control indicator lamp
- **K38** Oil level indicator lamp
- **K83** Malfunction indicator lamp
- **K105** Low fuel level indicator lamp
- **K132** Electronic power control malfunction indicator lamp
- **T6z** 6-pin connector
- **T32** 32-pin connector

- **410** Sensor ground connection 1 (in main wiring harness)

* Only for vehicles with flexible service interval reminder

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

https://www.automotive-manuals.net/
Engine hood contact switch, Fuel level sensor, Transfer fuel pump, Fuel pump control module

- **F266** Engine hood contact switch
- **G** Fuel level sensor
- **G6** Transfer fuel pump
- **J519** Vehicle electrical control module system
- **J538** Fuel pump control module
- **T5b** 5-pin connector
- **T10n** 10-pin connector
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector

- **376** Ground connection 11 (in main wiring harness)
- **381** Ground connection 16 (in main wiring harness)
- **383** Ground connection 18 (in main wiring harness)
- **655** Ground connection on left headlamp
- **682** Ground connection 2 in right rear side panel
- **B485** Connection 21 (in main wiring harness)

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

https://www.automotive-manuals.net/
Standard equipment (NAR)
from November 2011
Battery, Terminal 15 power supply relay, Fuse 1 (on fuse panel A), Fuse 5 (on fuse panel A), Fuse panel B

A Battery
B Starter
C Generator
J329 Terminal 15 power supply relay
J682 Terminal 50 power supply relay
SA1 Fuse 1 (on fuse panel A)
SB3 Fuse 3 (on fuse panel B)
SB4 Fuse 4 (on fuse panel B)
SA5 Fuse 5 (on fuse panel A)
SB Fuse panel B
SB7 Fuse 7 (on fuse panel B)
SB49 Fuse 49 (on fuse panel B)
T40 40-pin connector

1 Ground strap, battery to body
14 Ground connection on transmission
508 Terminal 30 threaded connection (on E-box)
652 Transmission/engine ground connection
B163 Positive connection 1 (15) (in interior wiring harness)
B169 Positive connection 1 (30) (in interior wiring harness)
B319 Positive connection 5 (30a) (in main wiring harness)

* E-Box low
*2 E-Box high
*3 Only for vehicles with 90 A/120 A generator
*4 Only for vehicles with a generator (140 A)

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

https://www.automotive-manuals.net/
Wiring Diagram

Fuse panel B, Fuse panel C

SB  Fuse panel B
SB1  Fuse 1 (on fuse panel B)
SC2  Fuse 2 (on fuse panel C)
SB5  Fuse 5 (on fuse panel B)
SB6  Fuse 6 (on fuse panel B)
SB12 Fuse 12 (on fuse panel B)
SB16 Fuse 16 (on fuse panel B)
SB17 Fuse 17 (on fuse panel B)
SB19 Fuse 19 (on fuse panel B)
SB24 Fuse 24 (on fuse panel B)
SB26 Fuse 26 (on fuse panel B)
SB30 Fuse 30 (on fuse panel B)
SB31 Fuse 31 (on fuse panel B)
SB47 Fuse 47 (on fuse panel B)
SB52 Fuse 52 (on fuse panel B)
SC  Fuse panel C
T40  40-pin connector

B278  Positive connection 2 (15a) (in main wiring harness)
B504  Positive connection 8 (30a) (in interior wiring harness)
*   E-Box low
*2  E-Box high

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

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

- SC  Fuse panel C
- SC1  Fuse 1 (on fuse panel C)
- SC4  Fuse 4 (on fuse panel C)
- SC13 Fuse 13 (on fuse panel C)
- SC15 Fuse 15 (on fuse panel C)
- SC17 Fuse 17 (on fuse panel C)

- A167  Positive connection 3 (30a) (in instrument panel wiring harness)
- A192  Positive connection 3 (15a) (in instrument panel wiring harness)
- A217  Positive connection 8 (15a) (in instrument panel wiring harness)
- B318  Positive connection 4 (30a) (in main wiring harness)
- B503  Positive connection 7 (30a) (in interior wiring harness)

*  not for vehicles with dual clutch transmission
*2  Only for vehicles with rain/light recognition sensor

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

Golf Wiring Diagram

No. 121 / 4

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https://www.automotive-manuals.net/
Load reduction relay, Fuse panel C

- J59  Load reduction relay
- J519  Vehicle electrical control module system
- SC  Fuse panel C
- SC14  Fuse 14 (on fuse panel C)
- SC24  Fuse 24 (on fuse panel C)
- SC25  Fuse 25 (on fuse panel C)
- SC40  Fuse 40 (on fuse panel C)
- SC41  Fuse 41 (on fuse panel C)
- SC42  Fuse 42 (on fuse panel C)
- T52a  52-pin connector
- T52b  52-pin connector
- T52c  52-pin connector

- B162  Connection 75a (in interior wiring harness)
- B170  Positive connection 2 (30) (in interior wiring harness)
- B315  Positive connection 1 (30a) (in main wiring harness)

* Only for vehicles with auxiliary water heater

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink
Ignition/starter switch, Steering column electronics control module, Ignition switch key lock solenoid

- **D** Ignition/starter switch
- **F319** Selector lever park position lock switch
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **J764** Electronic steering column lock control module
- **N376** Ignition switch key lock solenoid, on the ignition/starter switch
  - **T6l** 6-pin connector
  - **T8ae** 8-pin connector
  - **T10s** 10-pin connector, under the selector lever
  - **T16r** 16-pin connector
  - **T16s** 16-pin connector
  - **T52b** 52-pin connector
  - **T52c** 52-pin connector

* Only for vehicles with DSG transmission
*2 only for vehicles with access/start authorization system
*3 Only for vehicles without access/start authorization system

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

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https://www.automotive-manuals.net/
Signal horn activation, Steering column electronics control module, Driver airbag igniter

- **F350** Spiral spring
- **H** Signal horn activation
- **J234** Airbag control module
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **J623** Engine control module
- **N95** Driver airbag igniter
- **T4k** 4-pin connector
- **T12k** 12-pin connector
- **T16r** 16-pin connector
- **T50** 50-pin connector
- **T75** 75-pin connector

**B441** Cruise control connection (in main wiring harness)

Wiring Diagram

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**Additional Notes:**
- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Turn signal switch, Headlamp dimmer/flasher switch, Windshield wiper intermittent mode switch, Rear window wiper switch, Windshield wiper intermittent regulator, Windshield and headlamp washer pump switch, Cruise control switch, Multifunction indicator selection switch, Multifunction indicator memory switch, Cruise control -SET- button, Steering column electronics control module

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E2</td>
<td>Turn signal switch</td>
</tr>
<tr>
<td>E4</td>
<td>Headlamp dimmer/flasher switch</td>
</tr>
<tr>
<td>E22</td>
<td>Windshield wiper intermittent mode switch</td>
</tr>
<tr>
<td>E34</td>
<td>Rear window wiper switch</td>
</tr>
<tr>
<td>E38</td>
<td>Windshield wiper intermittent regulator</td>
</tr>
<tr>
<td>E44</td>
<td>Windshield and headlamp washer pump switch</td>
</tr>
<tr>
<td>E45</td>
<td>Cruise control switch</td>
</tr>
<tr>
<td>E86</td>
<td>Multifunction indicator selection switch</td>
</tr>
<tr>
<td>E109</td>
<td>Multifunction indicator memory switch</td>
</tr>
<tr>
<td>E227</td>
<td>Cruise control -SET- button</td>
</tr>
<tr>
<td>J519</td>
<td>Vehicle electrical control module system</td>
</tr>
<tr>
<td>J527</td>
<td>Steering column electronics control module</td>
</tr>
<tr>
<td>T6bk</td>
<td>6-pin connector</td>
</tr>
<tr>
<td>T8ae</td>
<td>8-pin connector</td>
</tr>
<tr>
<td>T9b</td>
<td>9-pin connector</td>
</tr>
</tbody>
</table>

* Only for vehicles with multifunction display
*2 Only for vehicles with cruise control

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gy = grey
li = lilac
vi = lilac
gy = grey
or = orange
rs = pink
**Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp bulb, Left position lamp bulb, Left front turn signal bulb, Left low beam headlamp bulb, Left high beam headlamp bulb, Left front side marker lamp bulb**

- **J519** Vehicle electrical control module system
- **L22** Left front fog lamp bulb
- **L148** Left cornering lamp bulb
- **L174** Left daytime running lamp bulb
- **M1** Left position lamp bulb
- **M5** Left front turn signal bulb
- **M29** Left low beam headlamp bulb
- **M30** Left high beam headlamp bulb
- **M33** Left front side marker lamp bulb
- **T2bc** Double connector
- **T10i** 10-pin connector, on the left headlamp
- **T52a** 52-pin connector
- **T52c** 52-pin connector

- **125** Ground connection 3 (in headlamp wiring harness)
- **376** Ground connection 11 (in main wiring harness)
- **381** Ground connection 16 (in main wiring harness)
- **392** Ground connection 27 (in main wiring harness)
- **655** Ground connection on left headlamp
- **A6** Left turn signal positive connection (in instrument panel wiring harness)
- **B144** Positive connection (58L) (in interior wiring harness)
- **C65** Side marker lamp positive connection 1
- **C69** Fog lamp connection (in left front wiring harness)

*Only for vehicles with fog lamps*

- **ws** = white
- **sw** = black
- **ro** = red
- **rt** = red
- **br** = brown
- **gn** = green
- **bl** = blue
- **gr** = grey
- **li** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink
Instrument panel and switch illumination dimmer switch, Back-up lamp switch, Engine hood contact switch, High tone horn, Low tone horn, Dual tone horn relay

- E20 Instrument panel and switch illumination dimmer switch
- F4 Back-up lamp switch
- F266 Engine hood contact switch
- H2 High tone horn
- H7 Low tone horn
- J4 Dual tone horn relay
- J519 Vehicle electrical control module system
- L105 Lighting control illumination bulb
- T2n Double connector, near the left headlamp
- T8e 8-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- T52c 52-pin connector

- 376 Ground connection 11 (in main wiring harness)
- 378 Ground connection 13 (in main wiring harness)
- A90 Dual tone horn connection (in instrument panel wiring harness)
- B521 Dual tone horn connection (in main wiring harness)

* not for vehicles with dual clutch transmission

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

https://www.automotive-manuals.net/
Light switch, Fog lamp switch, Fog lamp indicator lamp,
Automatic light control indicator lamp

E1  Light switch
E7  Fog lamp switch
J519 Vehicle electrical control module system
K17 Fog lamp indicator lamp
K209 Automatic light control indicator lamp
L9  Headlamp switch illumination bulb
T10h 10-pin connector
T52a 52-pin connector
T52b 52-pin connector

B340 Connection 58d (in main wiring harness) 1

* Only for vehicles with fog lamps
*2 Only for vehicles with automatic headlamp assist

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Right tail lamp bulb, Left tail lamp bulb, Left rear turn signal bulb, Right rear turn signal bulb, Left back-up lamp bulb, Right back-up lamp bulb, Left brake/tail lamp bulb, Right brake/tail lamp bulb

J519 Vehicle electrical control module system
M2 Right tail lamp bulb
M4 Left tail lamp bulb
M6 Left rear turn signal bulb
M8 Right rear turn signal bulb
M16 Left back-up lamp bulb
M17 Right back-up lamp bulb
M21 Left brake/tail lamp bulb
M22 Right brake/tail lamp bulb
T3au 3-pin connector
T3av 3-pin connector
T3aw 3-pin connector
T3ax 3-pin connector
T5a 5-pin connector, in the left rear side panel
T5c 5-pin connector, in the left rear side panel
T5e 5-pin connector, in the left rear side panel
T52a 52-pin connector
T52c 52-pin connector

86 Ground connection 1 (in rear wiring harness)
98 Ground connection (in rear lid wiring harness)
369 Ground connection 4 (in main wiring harness)
662 Ground connection in left rear side panel
682 Ground connection 2 in right rear side panel
A87 Back-up lamp connection (in instrument panel wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
gi = yellow
or = orange
rs = pink
Rear window defogger relay, Driver exterior rearview mirror turn signal bulb, Front passenger exterior rearview mirror turn signal bulb, High-mounted brake lamp bulb, Left license plate lamp, Right license plate lamp, Rear window defogger

J9  Rear window defogger relay  
J386  Driver door control module  
J387  Front passenger door control module  
J519  Vehicle electrical control module system  
L131  Driver exterior rearview mirror turn signal bulb  
L132  Front passenger exterior rearview mirror turn signal bulb  
M25  High-mounted brake lamp bulb  
T2aj  Double connector, under the right rear bumper  
T5a  5-pin connector, in the left rear side panel  
T8l  8-pin connector  
T16a  16-pin connector  
T16g  16-pin connector  
T20a  20-pin connector  
T20b  20-pin connector  
T28  28-pin connector, in the left A-pillar connector station  
T28a  28-pin connector, in the left A-pillar connector station  
T52a  52-pin connector  
T52b  52-pin connector  
T52c  52-pin connector  
X4  Left license plate lamp  
X5  Right license plate lamp  
Z1  Rear window defogger

86  Ground connection 1 (in rear wiring harness)  
98  Ground connection (in rear lid wiring harness)  
205  Ground connection (in driver door wiring harness)  
206  Ground connection (in front passenger door wiring harness)  
345  Ground connection (in bumper wiring harness)  
B132  License plate lamp connection (in interior wiring harness)  
W41  Positive connection (58) (in license plate lamp wiring harness)  
*  Refer to applicable wiring diagram for radio/radio navigation system  
*2  Only for vehicles with park distance control (PDC)

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

https://www.automotive-manuals.net/
Emergency flasher button, Left washer nozzle heater, Right washer nozzle heater

- E229: Emergency flasher button
- J519: Vehicle electrical control module system
- K6: Emergency flasher indicator lamp
- T6: 6-pin connector
- T52a: 52-pin connector
- T52b: 52-pin connector
- T52c: 52-pin connector
- Z20: Left washer nozzle heater
- Z21: Right washer nozzle heater

**Ground connections**:
- 47: Ground connection in right front footwell
- 366: Ground connection 1 (in main wiring harness)
- 387: Ground connection 22 (in main wiring harness)
- 388: Ground connection 23 (in main wiring harness)
- C72: Positive connection (in heated spray nozzle wiring harness)

* Only for vehicles with heated spray nozzles
*2 Only for vehicles with footwell lamp

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vl = lilac
- ge = yellow
- or = orange
- rs = pink
Rain/light recognition sensor, Wiper motor control module, Rear window wiper motor, Windshield and rear window washer pump, Driver windshield wiper motor

- G397 Rain/light recognition sensor
- J400 Wiper motor control module
- J519 Vehicle electrical control module system
- T3ae 3-pin connector
- T4q 4-pin connector
- T4u 4-pin connector
- T5e 5-pin connector, in the left rear side panel
- T52a 52-pin connector
- T52b 52-pin connector
- V12 Rear window wiper motor
- V59 Windshield and rear window washer pump
- V216 Driver windshield wiper motor

- 387 Ground connection 22 (in main wiring harness)
- B183 Windshield washer pump connection 1 (in interior wiring harness)
- B184 Windshield washer pump connection 2 (in interior wiring harness)
- B528 LIN bus connection 1 (in main wiring harness)

* Only for vehicles with rain/light recognition sensor

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
 gn = green  
bl = blue  
gr = grey  
li = lilac  
vi = lilac  
ge = yellow  
or = orange  
rs = pink
Glove compartment lamp switch, Brake lamp switch, Luggage compartment lamp, Glove compartment lamp

- **E26** Glove compartment lamp switch
- **F** Brake lamp switch
- **F256** Rear lid lock unit
- **J519** Vehicle electrical control module system
- **J623** Engine control module
- **T4ab** 4-pin connector
- **T4bc** 4-pin connector
- **T5c** 5-pin connector, in the left rear side panel
- **T52a** 52-pin connector
- **T52b** 52-pin connector
- **T52c** 52-pin connector
- **W3** Luggage compartment lamp
- **W6** Glove compartment lamp

- 44 Ground connection on A-pillar, lower left
- 367 Ground connection 2 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- 605 Ground connection on upper steering column
- **A216** Positive connection 2 (87a) (in instrument panel wiring harness)
- **B131** Connection 54 (in interior wiring harness)
- **B559** Positive connection 1 (30g) (in main wiring harness)

* Refer to applicable engine wiring diagram
*2 Only for vehicles with rain/light recognition sensor
*3 Only for vehicles with footwell lamp

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

[https://www.automotive-manuals.net/]
Front interior lamp, Left rear reading lamp, Right rear reading lamp, Front passenger reading lamp, Driver reading lamp, Rear interior lamp

- J519 Vehicle electrical control module system
- L156 Switch illumination bulb
- T5y 5-pin connector
- T6a 6-pin connector
- T6b 6-pin connector
- T8d 8-pin connector, near the front interior lamp
- T52c 52-pin connector
- W1 Front interior lamp
- W11 Left rear reading lamp
- W12 Right rear reading lamp
- W13 Front passenger reading lamp
- W19 Driver reading lamp
- W43 Rear interior lamp
- Y7 Automatic dimming interior rearview mirror

- 347 Ground connection (in roof wiring harness)
- 380 Ground connection 15 (in main wiring harness)
- 389 Ground connection 24 (in main wiring harness)
- B154 Connection TK (in interior wiring harness) 1
- B250 Positive connection (in roof wiring harness)
- B559 Positive connection 1 (30g) (in main wiring harness)
- B603 Positive connection 2 (30g) (in main wiring harness)

* Only for vehicles with automatic dimming interior rearview mirror
*2 Only for vehicles with brake pad wear indicator

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

https://www.automotive-manuals.net/
Driver vanity mirror lamp contact switch, Front passenger vanity mirror lamp contact switch, Blocking diode, Cigarette lighter illumination bulb, Cigarette lighter, 12 V socket, Left footwell lamp, Right footwell lamp, Front passenger vanity mirror lamp, Driver vanity mirror lamp

F147 Driver vanity mirror lamp contact switch
F148 Front passenger vanity mirror lamp contact switch
J29 Blocking diode
J519 Vehicle electrical control module system
L28 Cigarette lighter illumination bulb
T52b 52-pin connector
U1 Cigarette lighter
U5 12 V socket
W9 Left footwell lamp
W10 Right footwell lamp
W14 Front passenger vanity mirror lamp
W20 Driver vanity mirror lamp

- Ground connection in right front footwell
- Ground connection (in roof wiring harness)
- Ground connection 18 (in main wiring harness)
- Ground connection 25 (in main wiring harness)
- Ground connection 2 in right rear side panel
- Positive connection (in roof wiring harness)
- Connection 75a (in main wiring harness) 1
- Footwell illumination connection (in main wiring harness)

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

Only for vehicles with illuminated vanity mirror
*2 Only for vehicles with footwell lamp
Fresh air blower switch, Heater/heat output switch, Fresh air blower series resistor with fuse, Recirculation door motor

- E9 Fresh air blower switch
- E16 Heater/heat output switch, in the engine compartment, right
- E159 Fresh air/recirculation door switch
- E230 Rear window defogger button
- G143 Recirculation door motor position sensor
- J519 Vehicle electrical control module system
- K10 Rear window defogger indicator lamp
- K114 Fresh air and recirculation mode indicator lamp
- L16 Fresh air control illumination bulb
- N24 Fresh air blower series resistor with fuse
- T4f 4-pin connector
- T5 5-pin connector
- T6k 6-pin connector
- T10k 10-pin connector, behind the instrument panel, right
- T20c 20-pin connector
- T52a 52-pin connector
- T52b 52-pin connector
- V2 Fresh air blower
- V113 Recirculation door motor

- 602 Ground connection in left front footwell
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)
  * Only for vehicles with auxiliary water heater

Legend:
ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Data bus on board diagnostic interface, Diagnostic connection

- **J519** Vehicle electrical control module system
- **J533** Data bus on board diagnostic interface, in the left footwell, near the center console
- **T16** 16-pin connector
- **T20** 20-pin connector
- **T52c** 52-pin connector
- **U31** Diagnostic connection
- **A76** KS-diagnostic lead connection (in instrument panel wiring harness)
- **A178** Infotainment CAN bus high connection (in instrument panel wiring harness)
- **A179** Infotainment CAN bus low connection (in instrument panel wiring harness)
- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398** Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407** Comfort system CAN bus low connection 2 (in main wiring harness)

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

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https://www.automotive-manuals.net/
Anti-theft immobilizer reader coil, Brake fluid level warning switch, Warning buzzer and tone, Instrument cluster control module, Cruise control indicator lamp, Anti-theft immobilizer indicator lamp, Door ajar indicator lamp, Lamp failure indicator lamp, Hood -open- indicator lamp

- **D2** Anti-theft immobilizer reader coil
- **F34** Brake fluid level warning switch
- **H3** Warning buzzer and tone
- **J245** Power sunroof control module
- **J285** Instrument cluster control module
- **J362** Anti-theft immobilizer control module
- **K31** Cruise control indicator lamp
- **K32** Brake pad wear indicator lamp
- **K117** Anti-theft immobilizer indicator lamp
- **K166** Door ajar indicator lamp
- **K170** Lamp failure indicator lamp
- **K171** Hood -open- indicator lamp
- **T6c** 6-pin connector
- **T32** 32-pin connector
  * Speed signal
  *2 only for vehicles with access/start authorization system
  *3 Only for vehicles without access/start authorization system

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

**Connections:**
- **T6c** 6-pin connector
- **T32** 32-pin connector

**Connections:**
- **T1** 28-pin connector
- **T2** 28-pin connector
- **T3** 28-pin connector

**Symbols:**
- Red = red
- Blue = blue
- White = white
- Black = black
- Grey = grey
- Green = green
- Yellow = yellow
- Pink = pink
- Lilac = lilac
- Blue = blue
- Orange = orange
- Brown = brown
- White = white
- Black = black
- Grey = grey
- Green = green
- Yellow = yellow
- Pink = pink
- Lilac = lilac
- Blue = blue
- Orange = orange
- Brown = brown

**Networks:**
- Network 1: 281-284
- Network 2: 285-288
- Network 3: 289-292
- Network 4: 293-294
Parking brake indicator lamp switch, Tachometer, Speedometer, Windshield washer fluid level sensor, Left front brake pad wear sensor, Instrument cluster control module, High beam indicator lamp, Windshield washer fluid level indicator lamp

- F1 Oil pressure switch
- F9 Parking brake indicator lamp switch
- G5 Tachometer
- G21 Speedometer
- G33 Windshield washer fluid level sensor
- G34 Left front brake pad wear sensor
- J285 Instrument cluster control module
- K1 High beam indicator lamp
- K2 Generator indicator lamp
- K3 Oil pressure indicator lamp
- K28 Engine coolant level/temperature indicator lamp
- K37 Windshield washer fluid level indicator lamp
- K65 Indicator lamp for left turn signal
- K94 Right turn signal indicator lamp
- K105 Low fuel level indicator lamp
- K118 Brake system indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

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- **Sensor ground connection 1 (in main wiring harness)**
- **Brake wear indicator connection 1 (in main wiring harness)**
- **Brake wear indicator connection 2 (in main wiring harness)**

* Only for vehicles with brake pad wear indicator

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

**Wiring Diagram No. 121 / 23**

[Diagram with connections and labels]
Fuel gauge, Engine coolant temperature gauge, Outside air temperature sensor, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Position lamp indicator lamp, Rear fog lamp indicator lamp, Engine electronics indicator lamp, Odometer display

G Fuel level sensor
G1 Fuel gauge
G3 Engine coolant temperature gauge
G6 Transfer fuel pump
G17 Outside air temperature sensor
G32 Engine coolant level sensor
J119 Multifunction indicator
J285 Instrument cluster control module
J538 Fuel pump control module
K4 Position lamp indicator lamp
K13 Rear fog lamp indicator lamp
K149 Engine electronics indicator lamp
T5b 5-pin connector
T10n 10-pin connector
T32 32-pin connector
Y4 Odometer display

Sensor ground connection 1 (in main wiring harness)
2.0L gasoline engine, CBFA
from November 2011
Battery, Starter, Generator, Fuse 1 (on fuse panel A)

A  Battery
B  Starter
C  Generator
C1 Voltage regulator
SA1 Fuse 1 (on fuse panel A)
T2 Double connector, near the starter
T4t 4-pin connector, near the starter

1  Ground strap, battery to body
14 Ground connection on transmission
508 Terminal 30 threaded connection (on E-box)
652 Transmission/engine ground connection
B177 Connection 61 (in interior wiring harness)
D110 Connection 8 (in engine compartment wiring harness)
* only for vehicles with access/start authorization system
*2 Only for vehicles without an A/C system
*3 Only for vehicles with A/C system
*4 Only for vehicles without access/start authorization system

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
Terminal 50 power supply relay, Starter relay 1, Starter relay 2

- J682  Terminal 50 power supply relay
- J906  Starter relay 1
- J907  Starter relay 2
- 508  Terminal 30 threaded connection (on E-box)
- B163  Positive connection 1 (15) (in interior wiring harness)
- B278  Positive connection 2 (15a) (in main wiring harness)
- B660  Diagnostic terminal 50 connection (in main wiring harness)

* only for vehicles with access/start authorization system
*2 Only for vehicles without access/start authorization system
Terminal 15 power supply relay, Fuse 5 (on fuse panel A), Fuse panel B

- J329 Terminal 15 power supply relay
- SC1 Fuse 1 (on fuse panel C)
- SC2 Fuse 2 (on fuse panel C)
- SA5 Fuse 5 (on fuse panel A)
- SB Fuse panel B
- SB6 Fuse 6 (on fuse panel B)
- SB7 Fuse 7 (on fuse panel B)
- SC27 Fuse 27 (on fuse panel C)
- T40 40-pin connector

- 508 Terminal 30 threaded connection (on E-box)
- A192 Positive connection 3 (15a) (in instrument panel wiring harness)
- B163 Positive connection 1 (15) (in interior wiring harness)
- B169 Positive connection 1 (30) (in interior wiring harness)
- B278 Positive connection 2 (15a) (in main wiring harness)
- B504 Positive connection 8 (30a) (in interior wiring harness)

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

https://www.automotive-manuals.net/
Fuel level sensor, Transfer fuel pump, Secondary air injection pump relay, Fuel pump control module, Fuse panel B, Secondary air injection pump motor

- **G** Fuel level sensor
- **G6** Transfer fuel pump
- **J299** Secondary air injection pump relay
- **J538** Fuel pump control module
- **SB** Fuse panel B
- **SB15** Fuse 15 (on fuse panel B)
- **SB20** Fuse 20 (on fuse panel B)
- **SB21** Fuse 21 (on fuse panel B)
- **SB24** Fuse 24 (on fuse panel B)
- **SB27** Fuse 27 (on fuse panel B)
- **T5b** 5-pin connector
- **T10n** 10-pin connector
- **T40** 40-pin connector
- **V101** Secondary air injection pump motor
- **655** Ground connection on left headlamp
- **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** = lilac
- **vi** = lilac
- **ge** = yellow
- **or** = orange
- **rs** = pink

---

*Source: https://www.automotive-manuals.net/*
Motronic engine control module power supply relay, Fuse panel B

- J271: Motronic engine control module power supply relay
- SB: Fuse panel B
- SB2: Fuse 2 (on fuse panel B)
- SB10: Fuse 10 (on fuse panel B)
- SB13: Fuse 13 (on fuse panel B)
- SB14: Fuse 14 (on fuse panel B)
- SB22: Fuse 22 (on fuse panel B)
- SB23: Fuse 23 (on fuse panel B)
- T14a: 14-pin connector, near the battery
- T40: 40-pin connector

**Ground connections**
- 383: Ground connection 18 (in main wiring harness)
- 682: Ground connection 2 in right rear side panel
- D78: Positive connection 1 (30a) (in engine compartment wiring harness)
- D183: Connection 4 (87a) (in engine compartment wiring harness)

**Only for vehicles**
- *: Only for vehicles with a manual transmission
- *2: Only for vehicles with automatic transmission

**Connectors**
- T14a: 14-pin connector
- T40: 40-pin connector

**Symbols**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Steering column electronics control module, Engine control module

- J527  Steering column electronics control module
- J623  Engine control module, in the center plenum chamber
- J764  Electronic steering column lock control module
- T16r  16-pin connector
- T16s  16-pin connector
- T94   94-pin connector

- B441 Cruise control connection (in main wiring harness)
- B465 Connection 1 (in main wiring harness)
- D182 Connection 3 (87a) (in engine compartment wiring harness)

* Only for vehicles without access/start authorization system
*2 only for vehicles with access/start authorization system

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

https://www.automotive-manuals.net/
Engine coolant temperature sensor, Coolant circulation pump relay, Engine control module, After-run coolant pump

- G62: Engine coolant temperature sensor
- J151: Coolant circulation pump relay
- J623: Engine control module, in the center plenum chamber
- T4by: 4-pin connector, in the engine compartment, left
- T60: 60-pin connector
- T94: 94-pin connector
- V51: After-run coolant pump

- 131: Ground connection 2 (in engine compartment wiring harness)
- 607: Ground connection in plenum chamber, left

* Only for vehicles without access/start authorization system
*2 only for vehicles with access/start authorization system

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plugs

J623 Engine control module, in the center plenum chamber
N70 Ignition coil 1 with power output stage
N127 Ignition coil 2 with power output stage
N291 Ignition coil 3 with power output stage
N292 Ignition coil 4 with power output stage
P Spark plug connectors
Q Spark plugs
T14a 14-pin connector, near the battery
T60 60-pin connector

15 Ground connection on cylinder head
85 Ground connection 1 (in engine compartment wiring harness)
281 Ground connection 1 (in engine pre-wiring harness)
642 Electronic fan control ground connection
D206 Connection 87a (in engine pre-wiring harness) 4

**Legend**
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Engine speed sensor, Throttle valve control module, Engine control module, Fuel pressure regulator valve

- G28 Engine speed sensor
- G186 EPC throttle drive
- G187 EPC throttle drive angle sensor 1
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module, in the center plenum chamber
- J757 Engine component power supply relay
- N276 Fuel pressure regulator valve
- T6x 6-pin connector
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

**Wiring Diagram**

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
gn = green  
bl = blue  
gr = grey  
li = lilac  
vi = lilac  
ge = yellow  
or = orange  
rs = pink
Charge air pressure sensor, Camshaft position sensor, Knock sensor 1, Fuel pressure sensor, Intake manifold runner position sensor, Engine control module

G31 Charge air pressure sensor
G40 Camshaft position sensor
G61 Knock sensor 1
G247 Fuel pressure sensor
G336 Intake manifold runner position sensor
J623 Engine control module, in the center plenum chamber
T3w 3-pin connector, on the engine, front
T4ak 4-pin connector
T6aq 6-pin connector, on the engine, front
T14a 14-pin connector, near the battery
T60 60-pin connector

(D101) Connection 1 (in engine compartment wiring harness)
(D103) Connection 3 (in engine compartment wiring harness)
(D107) Connection 5 (in engine compartment wiring harness)
(D123) Connection 21 (in engine compartment wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Intake air temperature sensor, Intake manifold runner position sensor, Secondary air injection sensor 1, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector

G42 Intake air temperature sensor
G336 Intake manifold runner position sensor
G609 Secondary air injection sensor 1
J623 Engine control module, in the center plenum chamber
N30 Cylinder 1 fuel injector
N31 Cylinder 2 fuel injector
N32 Cylinder 3 fuel injector
N33 Cylinder 4 fuel injector
T6aq 6-pin connector, on the engine, front
T8l 8-pin connector, on the engine, front
T60 60-pin connector

Connection 1 (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module, Wastegate bypass regulator valve, EVAP canister purge regulator valve 1, Turbocharger recirculation valve

G79  Accelerator pedal position sensor
G185  Accelerator pedal position sensor 2
J623  Engine control module, in the center plenum chamber
N75  Wastegate bypass regulator valve
N80  EVAP canister purge regulator valve 1
N249  Turbocharger recirculation valve
T4x  4-pin connector, on the lower left coolant fan
T6h  6-pin connector
T14a  14-pin connector, near the battery
T60  60-pin connector
T94  94-pin connector

D189  Connection 87a (in engine pre-wiring harness)

*  Coolant fan connection

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

https://www.automotive-manuals.net/
Map controlled engine cooling thermostat, Mass airflow sensor, Engine coolant temperature sensor on radiator outlet, Engine control module, Secondary air injection solenoid valve, Camshaft adjustment valve 1, Intake manifold runner control valve

- **F265** Map controlled engine cooling thermostat
- **G70** Mass airflow sensor
- **G83** Engine coolant temperature sensor on radiator outlet
- **J623** Engine control module, in the center plenum chamber
- **N112** Secondary air injection solenoid valve
- **N205** Camshaft adjustment valve 1
- **N316** Intake manifold runner control valve
- **T5d** 5-pin connector
- **T14a** 14-pin connector, near the battery
- **T60** 60-pin connector
- **T94** 94-pin connector

**D189** Connection 87a (in engine pre-wiring harness)

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

https://www.automotive-manuals.net/
Heated oxygen sensor, Radiator identification sensor, Engine control module, Leak detection pump

- G39 Heated oxygen sensor
- G611 Radiator identification sensor
- J623 Engine control module, in the center plenum chamber
- T6w 6-pin connector, in the engine compartment, rear
- T94 94-pin connector
- V144 Leak detection pump
- Z19 Oxygen sensor heater
- E7 Connection 87a (in Motronic multiform fuel injection wiring harness)

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

https://www.automotive-manuals.net/
**J104** ABS control module

**J519** Vehicle electrical control module system

**T26a** 26-pin connector

**T47c** 47-pin connector

**T52b** 52-pin connector

**T52c** 52-pin connector

**B383** Powertrain CAN bus high connection 1 (in main wiring harness)

**B390** Powertrain CAN bus low connection 1 (in main wiring harness)

* Only for right-hand drive vehicles

*2 Only for left-hand drive vehicles

*3 only for vehicles with access/start authorization system

*4 Only for vehicles without access/start authorization system

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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>J104</td>
<td>ABS control module</td>
</tr>
<tr>
<td>J519</td>
<td>Vehicle electrical control module system</td>
</tr>
<tr>
<td>T26a</td>
<td>26-pin connector</td>
</tr>
<tr>
<td>T47c</td>
<td>47-pin connector</td>
</tr>
<tr>
<td>T52b</td>
<td>52-pin connector</td>
</tr>
<tr>
<td>T52c</td>
<td>52-pin connector</td>
</tr>
</tbody>
</table>

**Legend**

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

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https://www.automotive-manuals.net/
Oil pressure switch, Fuel gauge, Engine coolant temperature gauge, Engine coolant level sensor, Malfunction indicator lamp

- F1 Oil pressure switch
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G32 Engine coolant level sensor
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- K3 Oil pressure indicator lamp
- K31 Cruise control indicator lamp
- K38 Oil level indicator lamp
- K83 Malfunction indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T14a 14-pin connector, near the battery
- T32 32-pin connector

410 Sensor ground connection 1 (in main wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
g = yellow
or = orange
rs = pink
2.5L gasoline engine, CBTA, CBUA
from November 2011
Battery, Starter, Generator, Fuse 1 (on fuse panel A), Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 27 (on fuse panel C)

A  Battery  
B  Starter  
C  Generator  
C1  Voltage regulator  
SA1  Fuse 1 (on fuse panel A)  
SC2  Fuse 2 (on fuse panel C)  
SA5  Fuse 5 (on fuse panel A)  
SC27  Fuse 27 (on fuse panel C)  
T2  2-pin connector  
T2c  2-pin connector, near the starter  
T4t  4-pin connector, near the starter  

1  Ground strap, battery to body  
508  Terminal 30 threaded connection (on E-box)  
B169  Positive connection 1 (30) (in interior wiring harness)  
B177  Connection 61 (in interior wiring harness)  
B278  Positive connection 2 (15a) (in main wiring harness)  
D110  Connection 8 (in engine compartment wiring harness)  
*  Only for vehicles without an A/C system  
*2  Only for vehicles with A/C system

ws = white  
sw = black  
ro = red  
rt = red  
br = brown  
gn = green  
bl = blue  
vi = lilac  
gr = grey  
li = lilac  
ge = yellow  
or = orange  
rs = pink
Fuel pump relay, Terminal 15 power supply relay, Terminal 50 power supply relay, Fuse panel B

- **J17** Fuel pump relay
- **J329** Terminal 15 power supply relay
- **J682** Terminal 50 power supply relay
- **SB** Fuse panel B
- **SB6** Fuse 6 (on fuse panel B)
- **SB7** Fuse 7 (on fuse panel B)
- **T40** 40-pin connector

14. Ground connection on transmission

- **508** Terminal 30 threaded connection (on E-box)

- **652** Transmission/engine ground connection

- **A193** Connection 87a (in instrument panel wiring harness)

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

- **B504** Positive connection 8 (30a) (in interior wiring harness)

- **B660** Diagnostic terminal 50 connection (in main wiring harness)

* Only for vehicles without access/start authorization system

*2 Only for vehicles with access/start authorization system

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

https://www.automotive-manuals.net/
Secondary air injection pump relay, Fuse panel B, Secondary air injection pump motor

J299  Secondary air injection pump relay
SB  Fuse panel B
SB10  Fuse 10 (on fuse panel B)
SB14  Fuse 14 (on fuse panel B)
SB15  Fuse 15 (on fuse panel B)
SB20  Fuse 20 (on fuse panel B)
SB21  Fuse 21 (on fuse panel B)
SB22  Fuse 22 (on fuse panel B)
SB23  Fuse 23 (on fuse panel B)
SB27  Fuse 27 (on fuse panel B)
T14a  14-pin connector, near the battery
T40  40-pin connector
V101  Secondary air injection pump motor

655  Ground connection on left headlamp
D78  Positive connection 1 (30a) (in engine compartment wiring harness)
D197  Connection 5 (87a) (in engine compartment wiring harness)
"  Depending on equipment
*2  Only for vehicles with a manual transmission
*3  Only for vehicles with automatic transmission

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

https://www.automotive-manuals.net/
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plugs

J623  Engine control module, in the center plenum chamber
N70   Ignition coil 1 with power output stage
N127  Ignition coil 2 with power output stage
N291  Ignition coil 3 with power output stage
N292  Ignition coil 4 with power output stage
P     Spark plug connectors
Q     Spark plugs
T14a  14-pin connector, near the battery
T60   60-pin connector
T94   94-pin connector

15    Ground connection on cylinder head
85    Ground connection 1 (in engine compartment wiring harness)
281   Ground connection 1 (in engine pre-wiring harness)
642   Electronic fan control ground connection
D206  Connection 87a (in engine pre-wiring harness) 4

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

https://www.automotive-manuals.net/
Engine coolant temperature sensor, Engine coolant temperature sensor on radiator outlet, Throttle valve control module, Engine control module, Ignition coil 5 with power output stage

- G62 Engine coolant temperature sensor
- G83 Engine coolant temperature sensor on radiator outlet
- G186 EPC throttle drive
- G187 EPC throttle drive angle sensor 1
- G188 EPC throttle drive angle sensor 2
- J338 Throttle valve control module
- J623 Engine control module, in the center plenum chamber
- N323 Ignition coil 5 with power output stage
- P Spark plug connectors
- Q Spark plugs
- T6x 6-pin connector
- T60 60-pin connector
- T94 94-pin connector

85 Ground connection 1 (in engine compartment wiring harness)
281 Ground connection 1 (in engine pre-wiring harness)
D108 Connection 6 (in engine compartment wiring harness)
D109 Connection 7 (in engine compartment wiring harness)
D206 Connection 87a (in engine pre-wiring harness)

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

https://www.automotive-manuals.net/
Camshaft position sensor, Intake air temperature sensor, Knock sensor 1, Knock sensor 2, Manifold absolute pressure sensor, Secondary air injection sensor 1, Engine control module

- G40: Camshaft position sensor
- G42: Intake air temperature sensor
- G61: Knock sensor 1
- G66: Knock sensor 2
- G71: Manifold absolute pressure sensor
- G609: Secondary air injection sensor 1
- J623: Engine control module, in the center plenum chamber
- T3d: 3-pin connector
- T3w: 3-pin connector, on the engine, front
- T3y: 3-pin connector, on the engine, front
- T4bu: 4-pin connector
- T60: 60-pin connector
- T94: 94-pin connector

220 Sensor ground connection (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
gi = green
vi = lilac
gi = lilac
gi = green
ge = yellow
or = orange
rs = pink
Engine speed sensor, Camshaft position sensor, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Cylinder 3 fuel injector, Cylinder 4 fuel injector, Cylinder 5 fuel injector, Leak detection pump

G28  Engine speed sensor
G40  Camshaft position sensor
J623  Engine control module, in the center plenum chamber
N30  Cylinder 1 fuel injector
N31  Cylinder 2 fuel injector
N32  Cylinder 3 fuel injector
N33  Cylinder 4 fuel injector
N83  Cylinder 5 fuel injector
T3d  3-pin connector
T14a  14-pin connector, near the battery
T60  60-pin connector
T94  94-pin connector
V144  Leak detection pump

Sensor ground connection (in engine compartment wiring harness)
Injector connection (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module, EVAP canister purge regulator valve 1, Secondary air injection solenoid valve, Camshaft adjustment valve 1

G79  Accelerator pedal position sensor
G185  Accelerator pedal position sensor 2
J623  Engine control module, in the center plenum chamber
N80   EVAP canister purge regulator valve 1
N112  Secondary air injection solenoid valve
N205  Camshaft adjustment valve 1
T4x   4-pin connector, on the lower left coolant fan
T6h   6-pin connector
T14a  14-pin connector, near the battery
T60   60-pin connector
T94   94-pin connector

(D180) Connection 87a (in engine compartment wiring harness)
(D181) Connection 2 (87a) (in engine compartment wiring harness)

* Radiator fan connection

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Heated oxygen sensor, Oxygen sensor after catalytic converter, Center oxygen sensor for bank 1 catalytic converter, Engine control module

G39  Heated oxygen sensor
G130 Oxygen sensor after catalytic converter
G465 Center oxygen sensor for bank 1 catalytic converter
J623 Engine control module, in the center plenum chamber
T4au 4-pin connector, near the oxygen sensor
T4v 4-pin connector, in the engine compartment, front
T6w 6-pin connector, in the engine compartment, rear
T94 94-pin connector
Z19 Oxygen sensor heater
Z29 Heater for oxygen sensor 1 after catalytic converter

Connection 54 (in interior wiring harness)
Connection 87a (in engine wiring harness)
Depending on equipment

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vl = lilac
g = yellow
or = orange
rs = pink
Brake lamp switch, Center oxygen sensor for bank 1 catalytic converter, Clutch position sensor, Engine control module

- F  Brake lamp switch
- G465  Center oxygen sensor for bank 1 catalytic converter
- G476  Clutch position sensor
- J623  Engine control module, in the center plenum chamber
- T4au  4-pin connector, near the oxygen sensor
- T4bc  4-pin connector
- T5m  5-pin connector
- T94  94-pin connector
- Z62  Oxygen sensor 3 heater

- 44  Ground connection on A-pillar, lower left
- 47  Ground connection in right front footwell
- 366  Ground connection 1 (in main wiring harness)
- 367  Ground connection 2 (in main wiring harness)
- 387  Ground connection 22 (in main wiring harness)
- 389  Ground connection 24 (in main wiring harness)
- 605  Ground connection on upper steering column
- (A216)  Positive connection 2 (87a) (in instrument panel wiring harness)
- (B131)  Connection 54 (in interior wiring harness)
- (E30)  Connection 87a (in engine wiring harness)

* Depending on equipment
*2 Only for vehicles with a manual transmission
*3 Only for left-hand drive vehicles
*4 Only for right-hand drive vehicles
*5 Only for vehicles with automatic transmission

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

https://www.automotive-manuals.net/
Vehicle electrical control module system, Engine control module

- F125 Multifunction transmission range switch
- J104 ABS control module
- J519 Vehicle electrical control module system
- J527 Steering column electronics control module
- J623 Engine control module, in the center plenum chamber
- J764 Electronic steering column lock control module
- T2 2-pin connector
- T10q 10-pin connector, on the transmission
- T16r 16-pin connector
- T26a 26-pin connector
- T47c 47-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- T94 94-pin connector

- B276 Positive connection (50) (in main wiring harness)
- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B465 Connection 1 (in main wiring harness)

* Only for vehicles without access/start authorization system
** Only for vehicles with automatic transmission
*** Only for vehicles with a manual transmission
**** only for vehicles with access/start authorization system
***** from May 2010

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

https://www.automotive-manuals.net/
Multifunction indicator, Instrument cluster control module, Vehicle electrical control module system, Data bus on board diagnostic interface

J119 Multifunction indicator
J285 Instrument cluster control module
J519 Vehicle electrical control module system
J533 Data bus on board diagnostic interface, in the left footwell, near the center console
K Instrument cluster
K83 Malfunction indicator lamp
T16 16-pin connector
T20 20-pin connector
T32 32-pin connector
T52b 52-pin connector
T52c 52-pin connector
U31 Diagnostic connection

B383 Powertrain CAN bus high connection 1 (in main wiring harness)
B390 Powertrain CAN bus low connection 1 (in main wiring harness)
B397 Comfort system CAN bus high connection 1 (in main wiring harness)
B398 Comfort system CAN bus high connection 2 (in main wiring harness)
B406 Comfort system CAN bus low connection 1 (in main wiring harness)
B407 Comfort system CAN bus low connection 2 (in main wiring harness)

* Only for left-hand drive vehicles
*2 Only for right-hand drive vehicles

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

https://www.automotive-manuals.net/
Oil pressure switch, Fuel level sensor, Fuel gauge, Engine coolant temperature gauge, Transfer fuel pump, Engine coolant level sensor, Instrument cluster control module

- F1 Oil pressure switch
- G Fuel level sensor
- G1 Fuel gauge
- G3 Engine coolant temperature gauge
- G6 Transfer fuel pump
- G32 Engine coolant level sensor
- H3 Warning buzzer and tone
- J285 Instrument cluster control module
- K Instrument cluster
- K3 Oil pressure indicator lamp
- K31 Cruise control indicator lamp
- K38 Oil level indicator lamp
- K105 Low fuel level indicator lamp
- K132 Electronic power control malfunction indicator lamp
- T5b 5-pin connector
- T14a 14-pin connector, near the battery
- T32 32-pin connector

- Ground connection 18 (in main wiring harness)
- Sensor ground connection 1 (in main wiring harness)
- Ground connection 2 in right rear side panel

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Auxiliary heater (PTC), gasoline engine, (7E6)
from November 2011
Terminal 30 power supply relay, Low heat output relay, High heat output relay, Engine control module, Fuse 1 (on fuse panel A), Fuse 4 (on fuse panel A), Fuse 6 (on fuse panel A), Fuse panel B, Auxiliary heater heating element

A Battery
B Starter
C Generator
J317 Terminal 30 power supply relay
J359 Low heat output relay
J360 High heat output relay
J623 Engine control module, in the center plenum chamber
SA1 Fuse 1 (on fuse panel A)
SA4 Fuse 4 (on fuse panel A)
SA6 Fuse 6 (on fuse panel A)
SB Fuse panel B
SB10 Fuse 10 (on fuse panel B)
SB24 Fuse 24 (on fuse panel B)
T3ar 3-pin connector
T4x 4-pin connector
T40 40-pin connector
T94 94-pin connector
Z35 Auxiliary heater heating element

508 Terminal 30 threaded connection (on E-box)
602 Ground connection in left front footwell
D78 Positive connection 1 (30a) (in engine compartment wiring harness)
D183 Connection 4 (87a) (in engine compartment wiring harness)
L81 Connection (in auxiliary heater wiring harness)
* Coolant fan connection
*2 Only for vehicles with 90 A/120 A generator
*3 Only for vehicles with a generator (140 A)
*4 Only for vehicles without an A/C system

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

https://www.automotive-manuals.net/
Fresh air blower switch, A/C control module, Fresh air blower series resistor with fuse, Fresh air blower

- E9 Fresh air blower switch
- J13 Fresh air blower relay
- J301 A/C control module
- J485 Auxiliary heater operation relay
- J519 Vehicle electrical control module system
- L16 Fresh air control illumination bulb
- N24 Fresh air blower series resistor with fuse
- SC33 Fuse 33 (on fuse panel C)
- T4f 4-pin connector
- T5gi 5-pin connector
- T9 9-pin connector
- T10k 10-pin connector, behind the instrument panel, right
- T20p 20-pin connector
- T52a 52-pin connector
- V2 Fresh air blower

Ground connections:

- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 388 Ground connection 23 (in main wiring harness)
- 602 Ground connection in left front footwell
- L77 Connection (in fresh air blower wiring harness)
- L78 Connection 1 (in fresh air blower wiring harness)

* Only for vehicles without auxiliary water heater
*2 Only for vehicles without Start/Stop system
*3 Only for vehicles with auxiliary water heater
*4 Only for vehicles without an A/C system
*5 Only for vehicles with Start/Stop system

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

**Wiring Diagram No. 137 / 3**

https://www.automotive-manuals.net/
Washer system, headlamps , (8X1)
from November 2011
Headlamp washer relay, Headlamp washer pump

- **A**: Battery
- **B**: Starter
- **C**: Generator
- **J39**: Headlamp washer relay
- **J519**: Vehicle electrical control module system
- **SA1**: Fuse 1 (on fuse panel A)
- **SB29**: Fuse 29 (on fuse panel B)
- **SC36**: Fuse 36 (on fuse panel C)
- **SB53**: Fuse 53 (on fuse panel B)
- **T40**: 40-pin connector
- **T52b**: 52-pin connector
- **T52c**: 52-pin connector
- **V11**: Headlamp washer pump

- **508**: Terminal 30 threaded connection (on E-box)
- **656**: Ground connection on right headlamp
- **A98**: Positive connection 4 (30) (in instrument panel wiring harness)
- **B111**: Positive connection 1 (30a) (in interior wiring harness)
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398**: Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407**: Comfort system CAN bus low connection 2 (in main wiring harness)

- ***E-Box low**
- ***2 E-Box high**
- ***3 from November 2010**
- ***4 Only for vehicles with 90 A/120 A generator**
- ***5 Only for vehicles with a generator (140 A)**

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

https://www.automotive-manuals.net/
Windshield wiper intermittent mode switch, Rear window wiper switch, Windshield and headlamp washer pump switch, Windshield washer fluid level sensor, Instrument cluster control module, Steering column electronics control module, Data bus on board diagnostic interface, Windshield washer fluid level indicator lamp

- E22 Windshield wiper intermittent mode switch
- E34 Rear window wiper switch
- E44 Windshield and headlamp washer pump switch
- G33 Windshield washer fluid level sensor
- J285 Instrument cluster control module
- J527 Steering column electronics control module
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- K37 Windshield washer fluid level indicator lamp
- T6bk 6-pin connector
- T16r 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
  - 44 Ground connection on A-pillar, lower left
  - 367 Ground connection 2 (in main wiring harness)
  - 410 Sensor ground connection 1 (in main wiring harness)
  - 605 Ground connection on upper steering column
  - B397 Comfort system CAN bus high connection 1 (in main wiring harness)
  - B406 Comfort system CAN bus low connection 1 (in main wiring harness)

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse panel B, Fuse 2 (on fuse panel C), Fuse 5 (on fuse panel A), Fuse 13 (on fuse panel C)

A  Battery
B  Starter
J329  Terminal 15 power supply relay
J519  Vehicle electrical control module system
J682  Terminal 50 power supply relay
J906  Starter relay 1
SB  Fuse panel B
SC2  Fuse 2 (on fuse panel C)
SA5  Fuse 5 (on fuse panel A)
SB7  Fuse 7 (on fuse panel B)
SB8  Fuse 8 (on fuse panel B)
SC13  Fuse 13 (on fuse panel C)
SB49  Fuse 49 (on fuse panel B)
T40  40-pin connector
T52b  52-pin connector
T52c  52-pin connector

44  Ground connection on A-pillar, lower left
367  Ground connection 2 (in main wiring harness)
508  Terminal 30 threaded connection (on E-box)
605  Ground connection on upper steering column
A167  Positive connection 3 (30a) (in instrument panel wiring harness)
B163  Positive connection 1 (15) (in interior wiring harness)
B169  Positive connection 1 (30) (in interior wiring harness)
B278  Positive connection 2 (15a) (in main wiring harness)

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

*  E-Box high
*2  E-Box low
*3  Only for vehicles with Start/Stop system
*4  Only for vehicles without Start/Stop system

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

No. 139 / 3

Wiring Diagram

Compass magnetic field sensor, Voltage stabilizer, Data bus on board diagnostic interface, Fuse 48 (on fuse panel C)

G197 - Compass magnetic field sensor
J519 - Vehicle electrical control module system
J532 - Voltage stabilizer
J533 - Data bus on board diagnostic interface, in the left footwell, near the center console
J682 - Terminal 50 power supply relay
J907 - Starter relay 2
SC48 - Fuse 48 (on fuse panel C)
T8ao - 8-pin connector
T12ac - 12-pin connector
T20 - 20-pin connector
T52b - 52-pin connector
T52c - 52-pin connector

45 - Ground connection behind instrument panel, center
47 - Ground connection in right front footwell
366 - Ground connection 1 (in main wiring harness)
369 - Ground connection 4 (in main wiring harness)
431 - Ground connection 2 (in roof wiring harness)
A178 - Infotainment CAN bus high connection (in instrument panel wiring harness)
A179 - Infotainment CAN bus low connection (in instrument panel wiring harness)
A225 - Infotainment CAN bus high connection 2 (in instrument panel wiring harness)
A226 - Infotainment CAN bus low connection 2 (in instrument panel wiring harness)
B320 - Positive connection 6 (30a) (in main wiring harness)
B321 - Positive connection 7 (30a) (in main wiring harness)
B660 - Diagnostic terminal 50 connection (in main wiring harness)

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

* Only for vehicles with Start/Stop system
*2 Only for vehicles without Start/Stop system

https://www.automotive-manuals.net/
Headlamps HID with range control, (8G0)
from November 2010
Terminal 15 power supply relay, Vehicle electrical control module system, Fuse panel B, Fuse panel C

A  Battery
J329  Terminal 15 power supply relay
J519  Vehicle electrical control module system
SB  Fuse panel B
SC1  Fuse 1 (on fuse panel C)
SB1  Fuse 1 (on fuse panel B)
SC5  Fuse 5 (on fuse panel C)
SC6  Fuse 6 (on fuse panel C)
SB7  Fuse 7 (on fuse panel B)
SB16  Fuse 16 (on fuse panel B)
SB26  Fuse 26 (on fuse panel B)
SB47  Fuse 47 (on fuse panel B)
SB49  Fuse 49 (on fuse panel B)
SC  Fuse panel C
T52a  52-pin connector
T52b  52-pin connector
T52c  52-pin connector
SB  Fuse panel B

Ground connection on upper steering column
508  Terminal 30 threaded connection (on E-box)
605  Ground connection on upper steering column
A192  Positive connection 3 (15a) (in instrument panel wiring harness)
B163  Positive connection 1 (15) (in interior wiring harness)

*  E-Box low
*2  E-Box high

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

https://www.automotive-manuals.net/
Left HID headlamp control module, Vehicle electrical control module system, Left HID headlamp bulb, Left front fog lamp bulb, Left cornering lamp bulb, Left daytime running lamp and position lamp LED module, Left front turn signal bulb

J343 Left HID headlamp control module, on the left headlamp
J519 Vehicle electrical control module system
J860 Left daytime running lamp and position lamp control module, in the left headlamp
L13 Left HID headlamp bulb
L22 Left front fog lamp bulb
L148 Left cornering lamp bulb
L176 Left daytime running lamp and position lamp LED module
MX1 Left front headlamp
M5 Left front turn signal bulb
T2bc Double connector
T14e 14-pin connector
T52a 52-pin connector
T52c 52-pin connector
376 Ground connection 11 (in main wiring harness)
392 Ground connection 27 (in main wiring harness)
655 Ground connection on left headlamp
A6 Left turn signal positive connection (in instrument panel wiring harness)
B144 Positive connection (58L) (in interior wiring harness)
C69 Fog lamp connection (in left front wiring harness)

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

* Only for vehicles with daytime running lamps
*2 Only for vehicles with fog lamps

https://www.automotive-manuals.net/
Vehicle electrical control module system, Data bus on board diagnostic interface, Left headlamp power output module, Cornering lamp and headlamp range control module, Left headlamp beam adjustment motor, Left low beam headlamp reflector motor

- **J519**: Vehicle electrical control module system
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console
- **J667**: Left headlamp power output module, on the left headlamp
- **J745**: Cornering lamp and headlamp range control module, on the right glove compartment
- **MX1**: Left front headlamp
- **T14e**: 14-pin connector
- **T16**: 16-pin connector
- **T20**: 20-pin connector
- **T26h**: 26-pin connector
- **T52a**: 52-pin connector
- **U31**: Diagnostic connection
- **V48**: Left headlamp beam adjustment motor
- **V294**: Left low beam headlamp reflector motor

- **B229**: High bus connection (in interior wiring harness)
- **B230**: Low bus connection (in interior wiring harness)
- **B383**: Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390**: Powertrain CAN bus low connection 1 (in main wiring harness)
- **B665**: CAN bus extended high connection 1 (in instrument panel wiring harness)
- **B666**: CAN bus extended low connection 1 (in instrument panel wiring harness)

- *Diagnostic connector

**Legend**:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Left rear level control system sensor, Vehicle electrical control module system, Right headlamp power output module, Cornering lamp and headlamp range control module, Right headlamp beam adjustment motor, Right low beam headlamp reflector motor

- G76: Left rear level control system sensor
- J519: Vehicle electrical control module system
- J668: Right headlamp power output module, on the right headlamp
- J745: Cornering lamp and headlamp range control module, on the right glove compartment
- MX2: Right front headlamp
- T4ar: 4-pin connector
- T14f: 14-pin connector
- T26h: 26-pin connector
- T52c: 52-pin connector
- V49: Right headlamp beam adjustment motor
- V295: Right low beam headlamp reflector motor

Connections:
- B166: Connection 56a (in interior wiring harness)
- B229: High bus connection (in interior wiring harness)
- B230: Low bus connection (in interior wiring harness)
- N5: Connection 4 (in headlamp range control wiring harness)
- N6: Connection 5 (in headlamp range control wiring harness)
- N7: Connection 6 (in headlamp range control wiring harness)

Colors:
- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Right HID headlamp control module, Vehicle electrical control module system, Right HID headlamp bulb, Right front fog lamp bulb, Right cornering lamp bulb, Right daytime running lamp and position lamp LED module, Right front turn signal bulb

- J344 Right HID headlamp control module, on the right headlamp
- J519 Vehicle electrical control module system
- J861 Right daytime running lamp and position lamp control module, in the right headlamp
- L14 Right HID headlamp bulb
- L23 Right front fog lamp bulb
- L149 Right cornering lamp bulb
- L177 Right daytime running lamp and position lamp LED module
- MX2 Right front headlamp
- M7 Right front turn signal bulb
- T2bd Double connector
- T14f 14-pin connector
- T52a 52-pin connector
- T52c 52-pin connector

- 378 Ground connection 13 (in main wiring harness)
- 393 Ground connection 28 (in main wiring harness)
- 656 Ground connection on right headlamp
- A5 Right turn signal positive connection (in instrument panel wiring harness)
- B143 Positive connection (58R) (in interior wiring harness)
- B167 Connection 56b (in interior wiring harness)
- D59 Fog lamp connection (in engine compartment wiring harness)

* Only for vehicles with daytime running lamps
*2 Only for vehicles without rear fog lamps
*3 Only for vehicles with fog lamps
*4 Only for vehicles with fog lamps
Vehicle electrical control module system, Lighting control illumination bulb

E1  Light switch
E20 Instrument panel and switch illumination dimmer switch
J519 Vehicle electrical control module system
L105 Lighting control illumination bulb
T8e 8-pin connector
T10h 10-pin connector
T52a 52-pin connector
T52b 52-pin connector
T52c 52-pin connector

47  Ground connection in right front footwell
366  Ground connection 1 (in main wiring harness)
387  Ground connection 22 (in main wiring harness)
388  Ground connection 23 (in main wiring harness)
B340 Connection 58d (in main wiring harness) 1

ws  =  white
sw  =  black
ro  =  red
rt  =  red
br  =  brown
gn  =  green
bl  =  blue
gr  =  grey
li  =  lilac
vi  =  lilac
ge  =  yellow
or  =  orange
rs  =  pink
2.0L gasoline engine, CCTA
from November 2009
Battery, Starter, Generator, Terminal 50 power supply relay, Fuse 1 (on fuse panel A)

- **A** Battery
- **B** Starter
- **C** Generator
- **C1** Voltage regulator
- **J682** Terminal 50 power supply relay
- **SA1** Fuse 1 (on fuse panel A)
- **T2** 2-pin connector
- **T2c** 2-pin connector, near the starter
- **T4t** 4-pin connector, near the starter

1. Ground strap, battery to body
14. Ground connection on transmission
508. Terminal 30 threaded connection (on E-box)
652. Transmission/engine ground connection
B163. Positive connection 1 (15) (in interior wiring harness)
B177. Connection 61 (in interior wiring harness)
B660. Diagnostic terminal 50 connection (in main wiring harness)
D110. Connection 8 (in engine compartment wiring harness)

* Only for vehicles without an A/C system
*2 Only for vehicles with A/C system
*3 Only for vehicles without access/start authorization system
*4 only for vehicles with access/start authorization system

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

https://www.automotive-manuals.net/
Terminal 15 power supply relay, Fuse 5 (on fuse panel A), Fuse panel B

- J329  Terminal 15 power supply relay
- SC1  Fuse 1 (on fuse panel C)
- SC2  Fuse 2 (on fuse panel C)
- SA5  Fuse 5 (on fuse panel A)
- SB  Fuse panel B
- SB6  Fuse 6 (on fuse panel B)
- SB7  Fuse 7 (on fuse panel B)
- SC27  Fuse 27 (on fuse panel C)
- T40  40-pin connector

- 508  Terminal 30 threaded connection (on E-box)
- A192  Positive connection 3 (15a) (in instrument panel wiring harness)
- B169  Positive connection 1 (30) (in interior wiring harness)
- B278  Positive connection 2 (15a) (in main wiring harness)
- B504  Positive connection 8 (30a) (in interior wiring harness)

* Through November 2011

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

https://www.automotive-manuals.net/
Fuel level sensor, Transfer fuel pump, Fuel pump control module, Engine component power supply relay, Fuse panel B

- **G** Fuel level sensor
- **G6** Transfer fuel pump
- **J538** Fuel pump control module
- **J757** Engine component power supply relay
- **SB** Fuse panel B
- **SB20** Fuse 20 (on fuse panel B)
- **SB24** Fuse 24 (on fuse panel B)
- **SB27** Fuse 27 (on fuse panel B)
- **T5b** 5-pin connector
- **T10n** 10-pin connector
- **T40** 40-pin connector

Connection 21 (in main wiring harness): **B485**

Connection 87a (in engine compartment wiring harness): **D180**

- * through April 2010
- *2 from May 2010

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

https://www.automotive-manuals.net/
Motronic engine control module power supply relay, Fuse panel B

- **J271** Motronic engine control module power supply relay
- **SB** Fuse panel B
- **SB10** Fuse 10 (on fuse panel B)
- **SB13** Fuse 13 (on fuse panel B)
- **SB14** Fuse 14 (on fuse panel B)
- **SB15** Fuse 15 (on fuse panel B)
- **SB21** Fuse 21 (on fuse panel B)
- **SB22** Fuse 22 (on fuse panel B)
- **SB23** Fuse 23 (on fuse panel B)
- **T14a** 14-pin connector, near the battery
- **T40** 40-pin connector

- **383** Ground connection 18 (in main wiring harness)
- **682** Ground connection 2 in right rear side panel
- **D78** Positive connection 1 (30a) (in engine compartment wiring harness)

* Only for vehicles with a manual transmission
*2 Only for vehicles with automatic transmission
*3 from November 2010

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SB10</td>
<td>Fuse 10 (on fuse panel B)</td>
</tr>
<tr>
<td>SB13</td>
<td>Fuse 13 (on fuse panel B)</td>
</tr>
<tr>
<td>SB14</td>
<td>Fuse 14 (on fuse panel B)</td>
</tr>
<tr>
<td>SB15</td>
<td>Fuse 15 (on fuse panel B)</td>
</tr>
<tr>
<td>SB21</td>
<td>Fuse 21 (on fuse panel B)</td>
</tr>
<tr>
<td>SB22</td>
<td>Fuse 22 (on fuse panel B)</td>
</tr>
<tr>
<td>SB23</td>
<td>Fuse 23 (on fuse panel B)</td>
</tr>
<tr>
<td>T14a</td>
<td>14-pin connector, near the battery</td>
</tr>
<tr>
<td>T40</td>
<td>40-pin connector</td>
</tr>
</tbody>
</table>

- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = lilac
- vi = lilac
- ge = yellow
- or = orange
- rs = pink
Steering column electronics control module, Engine control module

- J527: Steering column electronics control module
- J623: Engine control module, in the center plenum chamber
- J764: Electronic steering column lock control module
- T16r: 16-pin connector
- T16s: 16-pin connector
- T94: 94-pin connector

131: Ground connection 2 (in engine compartment wiring harness)
607: Ground connection in plenum chamber, left
B276: Positive connection (50) (in main wiring harness)
B441: Cruise control connection (in main wiring harness)
B465: Connection 1 (in main wiring harness)
(D182): Connection 3 (87a) (in engine compartment wiring harness)
* through April 2010
*2 from May 2010
*3 only for vehicles with access/start authorization system
*4 Only for vehicles without access/start authorization system

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

Volkswagen Technical Site: http://vwts.ru  http://vwts.info
https://www.automotive-manuals.net/
Mass airflow sensor, Engine coolant temperature sensor on radiator outlet, Coolant circulation pump relay, Throttle valve control module, Engine control module, After-run coolant pump

G70  Mass airflow sensor
G83  Engine coolant temperature sensor on radiator outlet
G186  EPC throttle drive
G187  EPC throttle drive angle sensor 1
G188  EPC throttle drive angle sensor 2
J151  Coolant circulation pump relay
J338  Throttle valve control module
J623  Engine control module, in the center plenum chamber
T4by  4-pin connector, in the engine compartment, left
T5d  5-pin connector
T6x  6-pin connector
T60  60-pin connector
T94  94-pin connector
V51  After-run coolant pump

D183  Connection 4 (87a) (in engine compartment wiring harness)

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

https://www.automotive-manuals.net/
Engine control module, Ignition coil 1 with power output stage, Ignition coil 2 with power output stage, Ignition coil 3 with power output stage, Ignition coil 4 with power output stage, Spark plugs

J623 Engine control module, in the center plenum chamber
N70 Ignition coil 1 with power output stage
N127 Ignition coil 2 with power output stage
N291 Ignition coil 3 with power output stage
N292 Ignition coil 4 with power output stage
P Spark plug connectors
Q Spark plugs
T14a 14-pin connector, near the battery
T60 60-pin connector
T94 94-pin connector

15 Ground connection on cylinder head
85 Ground connection 1 (in engine compartment wiring harness)
281 Ground connection 1 (in engine pre-wiring harness)
642 Electronic fan control ground connection
(D206 Connection 87a (in engine pre-wiring harness) 4

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

https://www.automotive-manuals.net/
Intake air temperature sensor, Engine coolant temperature sensor, Intake manifold runner position sensor, Engine control module, Cylinder 1 fuel injector, Cylinder 2 fuel injector, Fuel pressure regulator valve

- G42 Intake air temperature sensor
- G62 Engine coolant temperature sensor
- G336 Intake manifold runner position sensor
- J623 Engine control module, in the center plenum chamber
- N30 Cylinder 1 fuel injector
- N31 Cylinder 2 fuel injector
- N276 Fuel pressure regulator valve
- T4x 4-pin connector
- T6aq 6-pin connector, on the engine, front
- TBI 8-pin connector, on the engine, front
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector

- 220 Sensor ground connection (in engine wiring harness)
- D123 Connection 21 (in engine compartment wiring harness)
- * Radiator fan connection

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

https://www.automotive-manuals.net/
Accelerator pedal position sensor, Accelerator pedal position sensor 2, Engine control module, Cylinder 3 fuel injector, Cylinder 4 fuel injector, EVAP canister purge regulator valve 1, Turbocharger recirculation valve

G79  Accelerator pedal position sensor
G185  Accelerator pedal position sensor 2
J623  Engine control module, in the center plenum chamber
N32  Cylinder 3 fuel injector
N33  Cylinder 4 fuel injector
N80  EVAP canister purge regulator valve 1
N249  Turbocharger recirculation valve
T6h  6-pin connector
T6i  8-pin connector, on the engine, front
T60  60-pin connector
T94  94-pin connector
(D189) Connection 87a (in engine pre-wiring harness)

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

https://www.automotive-manuals.net/
Oxygen sensor after catalytic converter, Engine control module, Wastegate bypass regulator valve, Camshaft adjustment valve 1, Intake manifold runner control valve, Oil pressure regulation valve

- G130 Oxygen sensor after catalytic converter
- J623 Engine control module, in the center plenum chamber
- N75 Wastegate bypass regulator valve
- N205 Camshaft adjustment valve 1
- N316 Intake manifold runner control valve
- N428 Oil pressure regulation valve
- T4v 4-pin connector, near the oxygen sensor
- T14a 14-pin connector, near the battery
- T60 60-pin connector
- T94 94-pin connector
- Z29 Heater for oxygen sensor 1 after catalytic converter

- D189 Connection 87a (in engine pre-wiring harness)
- E30 Connection 87a (in engine wiring harness)

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
ge = yellow
or = orange
rs = pink
Brake lamp switch, Heated oxygen sensor, Clutch position sensor, Engine control module, Leak detection pump

- **F** Brake lamp switch
- **G39** Heated oxygen sensor
- **G476** Clutch position sensor
- **J623** Engine control module, in the center plenum chamber
- **T4bc** 4-pin connector
- **T5m** 5-pin connector
- **T6w** 6-pin connector, in the engine compartment, rear
- **T94** 94-pin connector
- **V144** Leak detection pump
- **Z19** Oxygen sensor heater
- **389** Ground connection 24 (in main wiring harness)
- **A216** Positive connection 2 (87a) (in instrument panel wiring harness)
- **B131** Connection 54 (in interior wiring harness)
- **E30** Connection 87a (in engine wiring harness)

* from November 2011
*2 from November 2010
*3 Through November 2011
*4 Only for vehicles with a manual transmission
*5 Only for left-hand drive vehicles
*6 Only for right-hand drive vehicles
*7 Only for vehicles with automatic transmission

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

https://www.automotive-manuals.net/
Vehicle electrical control module system, Engine control module

J519 Vehicle electrical control module system
J623 Engine control module, in the center plenum chamber
T52b 52-pin connector
T52c 52-pin connector
T94 94-pin connector

44 Ground connection on A-pillar, lower left
47 Ground connection in right front footwell
366 Ground connection 1 (in main wiring harness)
367 Ground connection 2 (in main wiring harness)
387 Ground connection 22 (in main wiring harness)
389 Ground connection 24 (in main wiring harness)
605 Ground connection on upper steering column

* from May 2010
*2 only for vehicles with access/start authorization system
*3 through April 2010
*4 Only for vehicles with a manual transmission
*5 Only for right-hand drive vehicles
*6 Only for left-hand drive vehicles
*7 Only for vehicles without access/start authorization system

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

https://www.automotive-manuals.net/
Vehicle electrical control module system, Data bus on board diagnostic interface

- J104 ABS control module
- J519 Vehicle electrical control module system
- J533 Data bus on board diagnostic interface, in the left footwell, near the center console
- J743 DSG transmission Mechatronic
- T16 16-pin connector
- T20 20-pin connector
- T20e 20-pin connector
- T26a 26-pin connector
- T47c 47-pin connector
- T52b 52-pin connector
- T52c 52-pin connector
- U31 Diagnostic connection

- B383 Powertrain CAN bus high connection 1 (in main wiring harness)
- B390 Powertrain CAN bus low connection 1 (in main wiring harness)
- B397 Comfort system CAN bus high connection 1 (in main wiring harness)
- B398 Comfort system CAN bus high connection 2 (in main wiring harness)
- B406 Comfort system CAN bus low connection 1 (in main wiring harness)
- B407 Comfort system CAN bus low connection 2 (in main wiring harness)

* from November 2010
*2 Only for vehicles with a manual transmission
*3 Only for vehicles with DSG transmission
*4 Only for right-hand drive vehicles
*5 Only for left-hand drive vehicles

ws = white
sw = black
ro = red
r = red
br = brown
gn = green
bl = blue
g = grey
li = lilac
vl = lilac
ge = yellow
or = orange
rs = pink
Oil pressure switch, Reduced oil pressure switch, Fuel gauge, Engine coolant temperature gauge, Engine coolant level sensor, Multifunction indicator, Instrument cluster control module, Malfunction indicator lamp, Electronic power control malfunction indicator lamp

- **F1** Oil pressure switch
- **F378** Reduced oil pressure switch
- **G1** Fuel gauge
- **G3** Engine coolant temperature gauge
- **G32** Engine coolant level sensor
- **H3** Warning buzzer and tone
- **J119** Multifunction indicator
- **J285** Instrument cluster control module
- **K** Instrument cluster
- **K3** Oil pressure indicator lamp
- **K31** Cruise control indicator lamp
- **K38** Oil level indicator lamp
- **K83** Malfunction indicator lamp
- **K105** Low fuel level indicator lamp
- **K132** Electronic power control malfunction indicator lamp
- **T14a** 14-pin connector, near the battery
- **T32** 32-pin connector

Sensor ground connection 1 (in main wiring harness)
Access/start authorization (USA and Canada)
from May 2010
Vehicle electrical control module system, Fuse 5 (on fuse panel A), Fuse panel B, Fuse panel C

A  Battery
B  Starter
J519  Vehicle electrical control module system
J623  Engine control module
J682  Terminal 50 power supply relay
J907  Starter relay 2
SA5  Fuse 5 (on fuse panel A)
SB  Fuse panel B
SB6  Fuse 6 (on fuse panel B)
SB17  Fuse 17 (on fuse panel B)
SC  Fuse panel C
SC20  Fuse 20 (on fuse panel C)
SC21  Fuse 21 (on fuse panel C)
T40  40-pin connector
T52b  52-pin connector
T52c  52-pin connector
T94  94-pin connector

508  Terminal 30 threaded connection (on E-box)
B169  Positive connection 1 (30) (in interior wiring harness)
B504  Positive connection 8 (30a) (in interior wiring harness)
B660  Diagnostic terminal 50 connection (in main wiring harness)
*  E-Box high
*2  E-Box low
*3  Depending on equipment
*4  Refer to applicable engine wiring diagram

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

https://www.automotive-manuals.net/
Vehicle electrical control module system, Steering column electronics control module, Electronic steering column lock control module, Steering column lock actuator

F319 Selector lever park position lock switch
J519 Vehicle electrical control module system
J527 Steering column electronics control module
J623 Engine control module
J764 Electronic steering column lock control module
N360 Steering column lock actuator
T10s 10-pin connector, under the selector lever
T16r 16-pin connector
T16s 16-pin connector
T52c 52-pin connector
T94 94-pin connector

44 Ground connection on A-pillar, lower left
367 Ground connection 2 (in main wiring harness)
389 Ground connection 24 (in main wiring harness)
605 Ground connection on upper steering column
B276 Positive connection (50) (in main wiring harness)
B441 Cruise control connection (in main wiring harness)
B454 Shift lock connection (in main wiring harness)

* from May 2011
*2 Only for vehicles with DSG transmission

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = lilac
vi = lilac
gf = yellow
or = orange
rs = pink
Anti-theft immobilizer reader coil, Start system button, Access/start authorization control module, Electronic steering column lock control module, Access/start system antenna 1 in vehicle interior

- **D2**: Anti-theft immobilizer reader coil
- **E378**: Start system button
- **J285**: Instrument cluster control module
- **J518**: Access/start authorization control module, in the left rear side panel, behind the instrument panel, left, under the instrument panel, center
- **J764**: Electronic steering column lock control module
- **L76**: Push button illumination bulb
- **R138**: Access/start system antenna 1 in vehicle interior
- **T4cl**: 4-pin connector
- **T16s**: 16-pin connector
- **T32**: 32-pin connector
- **T32d**: 32-pin connector

- **389**: Ground connection 24 (in main wiring harness)
- **B465**: Connection 1 (in main wiring harness)

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```
ws = white  
sw = black  
ro = red    
rt = red    
br = brown  
bl = blue   
gr = grey   
li = lilac  
vi = lilac  
ge = yellow 
or = orange 
rs = pink
```
Driver exterior door handle touch sensor, Front passenger exterior door handle touch sensor, Access/start authorization control module, Driver access/start system antenna, Front passenger access/start system antenna, Access/start system antenna in rear bumper, Access/start system antenna in luggage compartment

- G415 Driver exterior door handle touch sensor
- G416 Front passenger exterior door handle touch sensor
- J518 Access/start authorization control module, in the left rear side panel, behind the instrument panel, left, under the instrument panel, center
- R134 Driver access/start system antenna
- R135 Front passenger access/start system antenna
- R136 Access/start system antenna in rear bumper
- R137 Access/start system antenna in luggage compartment
- T4cj 4-pin connector
- T4ck 4-pin connector
- T28 28-pin connector, in the left A-pillar connector station
- T28a 28-pin connector, in the connector station, right A-pillar
- T32d 32-pin connector
- 47 Ground connection in right front footwell
- 366 Ground connection 1 (in main wiring harness)
- 387 Ground connection 22 (in main wiring harness)

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

https://www.automotive-manuals.net/
Access/start authorization control module, Data bus on board diagnostic interface

- **J518**: Access/start authorization control module, in the left rear side panel, behind the instrument panel, left, under the instrument panel, center.
- **J533**: Data bus on board diagnostic interface, in the left footwell, near the center console.
- **T20**: 20-pin connector.
- **T32d**: 32-pin connector.
- **B397**: Comfort system CAN bus high connection 1 (in main wiring harness).
- **B398**: Comfort system CAN bus high connection 2 (in main wiring harness).
- **B406**: Comfort system CAN bus low connection 1 (in main wiring harness).
- **B407**: Comfort system CAN bus low connection 2 (in main wiring harness).

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

Wiring Diagram

No. 149 / 6

https://www.automotive-manuals.net/
Seat backrest adjustment (NAR)
from August 2010
Driver seat adjustment control head, Front passenger seat adjustment control head, Driver and front passenger seat circuit breaker, Driver backrest adjustment motor, Front passenger backrest adjustment motor

- **E470** Driver seat adjustment control head
- **E471** Front passenger seat adjustment control head
- **SB** Fuse panel B
- **SB29** Fuse 29 (on fuse panel B)
- **SB53** Fuse 53 (on fuse panel B)
- **S346** Driver and front passenger seat circuit breaker
- **T2cj** Double connector, under the driver seat
- **T2ck** Double connector, under the front passenger seat
- **T8ap** 8-pin connector
- **T8aq** 8-pin connector
- **T10a** 10-pin connector, under the driver seat
- **T10b** 10-pin connector, under the front passenger seat
- **T40** 40-pin connector
- **V45** Driver backrest adjustment motor
- **V46** Front passenger backrest adjustment motor

- **44** Ground connection on A-pillar, lower left
- **47** Ground connection in right front footwell
- **96** Ground connection 1 (in heated seats wiring harness)
- **145** Ground connection 3 (in heated seats wiring harness)
- **B111** Positive connection 1 (30a) (in interior wiring harness)
- **B328** Positive connection 14 (30a) (in main wiring harness)

- * E-Box low
- *2 E-Box high
- *3 Only for vehicles without heated seats
- *4 Only for vehicles with an auxiliary heater

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

https://www.automotive-manuals.net/
Headlamps Bixenon HID with range control, cornering lamp, LED daytime running lamps, (A9R)
from November 2009
Battery, Terminal 15 power supply relay, Vehicle electrical control module system, Fuse panel B, Fuse panel C, Fuse 1 (on fuse panel C)

A  Battery
J329  Terminal 15 power supply relay
J519  Vehicle electrical control module system
SB  Fuse panel B
SB49  Fuse 49 (on fuse panel B)
SC  Fuse panel C
SC1  Fuse 1 (on fuse panel C)
SC5  Fuse 5 (on fuse panel C)
SC6  Fuse 6 (on fuse panel C)
T40  40-pin connector, black
T52b  52-pin connector, naturally cloudy

1  Ground strap, battery to body
44  Ground connection on A-pillar, lower left
367  Ground connection 2 (in main wiring harness)
508  Terminal 30 threaded connection (on E-box)
605  Ground connection on upper steering column
A192  Positive connection 3 (15a) (in instrument panel wiring harness)
B163  Positive connection 1 (15) (in interior wiring harness)

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

https://www.automotive-manuals.net/
Vehicle electrical control module system, Left daytime running lamp and position lamp LED module, Left front headlamp

- **J343** Left HID headlamp control module
- **J519** Vehicle electrical control module system
- **L13** Left HID headlamp bulb
- **L176** Left daytime running lamp and position lamp LED module
- **MX1** Left front headlamp, on the left HID headlamp
- **M5** Left front turn signal bulb, on the left HID headlamp
- **M51** Left stationary cornering lamp, on the left HID headlamp
- **N347** Left high/low beam switch-over solenoid, on the left HID headlamp

**Connector Descriptions:**
- **T3cg** 3-pin connector
- **T14e** 14-pin connector, black
- **T52a** 52-pin connector, black
- **T52c** 52-pin connector, brown

**Ground Connections:**
- **376** Ground connection 11 (in main wiring harness)
- **381** Ground connection 16 (in main wiring harness)
- **655** Ground connection on left headlamp
- **A6** Left turn signal positive connection (in instrument panel wiring harness)
- **B144** Positive connection (58L) (in interior wiring harness)

*from July 2011

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

https://www.automotive-manuals.net/
Left rear level control system sensor, Headlamp range control module, Left front headlamp, Right front headlamp

G76  Left rear level control system sensor
J431  Headlamp range control module
MX1  Left front headlamp, on the left HID headlamp
MX2  Right front headlamp, on the right HID headlamp
T4ar  4-pin connector, black
T14e  14-pin connector, black
T14f  14-pin connector, black
T26b  26-pin connector, black
V48  Left headlamp beam adjustment motor, on the left HID headlamp
V49  Right headlamp beam adjustment motor

47  Ground connection in right front footwell
366  Ground connection 1 (in main wiring harness)
387  Ground connection 22 (in main wiring harness)
B385  Powertrain CAN bus high connection 3 (in main wiring harness)
B408  Comfort system CAN bus low connection 3 (in main wiring harness)
N5   Connection 4 (in headlamp range control wiring harness)
N6   Connection 5 (in headlamp range control wiring harness)
N7   Connection 6 (in headlamp range control wiring harness)

* Only for vehicles with Stop/Start system
*2 from July 2011

ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gl = grey
li = lilac
vi = lilac
gy = yellow
or = orange
rs = pink
Vehicle electrical control module system, Right daytime running lamp and position lamp LED module, Right front headlamp

J344 Right HID headlamp control module
J519 Vehicle electrical control module system
L14 Right HID headlamp bulb
L177 Right daytime running lamp and position lamp LED module
MX2 Right front headlamp, on the right HID headlamp
M7 Right front turn signal bulb, on the right HID headlamp
M52 Right stationary cornering lamp, on the right HID headlamp
N348 Right high/low beam switch-over solenoid, on the right HID headlamp

T3ch 3-pin connector
T14f 14-pin connector, black
T52a 52-pin connector, black
T52c 52-pin connector, brown

378 Ground connection 13 (in main wiring harness)
656 Ground connection on right headlamp
A5 Right turn signal positive connection (in instrument panel wiring harness)
B143 Positive connection (58R) (in interior wiring harness)
B166 Connection 56a (in interior wiring harness)
B167 Connection 56b (in interior wiring harness)

* USA only
*2 from July 2011
Turn signal switch, Headlamp dimmer/flasher switch, Instrument cluster control module, Vehicle electrical control module system, Steering column electronics control module, Data bus on board diagnostic interface

- **E2** Turn signal switch
- **E4** Headlamp dimmer/flasher switch
- **J285** Instrument cluster control module
- **J519** Vehicle electrical control module system
- **J527** Steering column electronics control module
- **J533** Data bus on board diagnostic interface
- **T16** 16-pin connector, black
- **T16r** 16-pin connector, black
- **T20** 20-pin connector, black
- **T32** 32-pin connector, blue
- **T52c** 52-pin connector, brown
- **U31** Diagnostic connection

- **B383** Powertrain CAN bus high connection 1 (in main wiring harness)
- **B390** Powertrain CAN bus low connection 1 (in main wiring harness)
- **B397** Comfort system CAN bus high connection 1 (in main wiring harness)
- **B398** Comfort system CAN bus high connection 2 (in main wiring harness)
- **B406** Comfort system CAN bus low connection 1 (in main wiring harness)
- **B407** Comfort system CAN bus low connection 2 (in main wiring harness)

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

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https://www.automotive-manuals.net/
Light switch, Instrument panel and switch illumination dimmer switch, Vehicle electrical control module system, Lighting control illumination bulb

E1  Light switch
E20 Instrument panel and switch illumination dimmer switch
J519 Vehicle electrical control module system
L105 Lighting control illumination bulb
SC2 Fuse 2 (on fuse panel C)
SC13 Fuse 13 (on fuse panel C)
T8e 8-pin connector, black
T10h 10-pin connector, black
T52a 52-pin connector, black
T52b 52-pin connector, naturally cloudy
T52c 52-pin connector, brown

388 Ground connection 23 (in main wiring harness)
A167 Positive connection 3 (30a) (in instrument panel wiring harness)
B278 Positive connection 2 (15a) (in main wiring harness)
B340 Connection 58d (in main wiring harness) 1
* Not for USA
*2 from July 2011

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

https://www.automotive-manuals.net/
E-box High fuse assignment
from November 2010
**Fuse panel B, Fuse 1 (on fuse panel B), Fuse 2 (on fuse panel B), Fuse 4 (on fuse panel B), Fuse 5 (on fuse panel B)**

- J4: Dual tone horn relay
- J104: ABS control module
- J367: Battery monitoring control module
- J519: Vehicle electrical control module system
- J743: DSG transmission Mechatronic
- SA6: Fuse 6 (on fuse panel A)
- SA7: Fuse 7 (on fuse panel A)
- SB: Fuse panel B
- SB1: Fuse 1 (on fuse panel B)
- SB2: Fuse 2 (on fuse panel B)
- SB3: Fuse 3 (on fuse panel B)
- SB4: Fuse 4 (on fuse panel B)
- SB5: Fuse 5 (on fuse panel B)
- SB13: Fuse 13 (on fuse panel B)
- SB14: Fuse 14 (on fuse panel B)
- T20e: 20-pin connector
- T26: 26-pin connector
- T40: 40-pin connector
- T47c: 47-pin connector
- T52a: 52-pin connector
- T52c: 52-pin connector

- **SA6**
- **SA7**
- **SB**
- **SB1**
- **SB2**
- **SB3**
- **SB4**
- **SB5**
- **SB13**
- **SB14**
- **T20e**
- **T26**
- **T40**
- **T47c**
- **T52a**
- **T52c**

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

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[https://www.automotive-manuals.net/](https://www.automotive-manuals.net/)
Motronic engine control module power supply relay, Auxiliary engine coolant pump relay, Fuse panel B, Fuse 15 (on fuse panel B), Fuse 28 (on fuse panel B), Fuse 29 (on fuse panel B)

- J271 Motronic engine control module power supply relay
- J496 Auxiliary engine coolant pump relay
- J623 Engine control module
- SB Fuse panel B
- SB15 Fuse 15 (on fuse panel B)
- SB28 Fuse 28 (on fuse panel B)
- SB29 Fuse 29 (on fuse panel B)
- T26 26-pin connector
- T40 40-pin connector
- T94 94-pin connector
- V50 Coolant recirculation pump

Connection 3 (87a) (in engine compartment wiring harness) Through May 2010
Connection 4 (87a) (in engine compartment wiring harness) from June 2010
Refer to applicable engine wiring diagram

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse 27 (on fuse panel B), Fuse 38 (on fuse panel B), Fuse 39 (on fuse panel B), Fuse 40 (on fuse panel B), Fuse 42 (on fuse panel B)

G476  Clutch position sensor
J203  Radiator fan control module
N70   Ignition coil 1 with power output stage
N127  Ignition coil 2 with power output stage
N205  Camshaft adjustment valve 1
N291  Ignition coil 3 with power output stage
N292  Ignition coil 4 with power output stage
N321  Exhaust door valve 1
SB    Fuse panel B
SB27  Fuse 27 (on fuse panel B)
SB38  Fuse 38 (on fuse panel B)
SB39  Fuse 39 (on fuse panel B)
SB40  Fuse 40 (on fuse panel B)
SB41  Fuse 41 (on fuse panel B)
SB42  Fuse 42 (on fuse panel B)
SB43  Fuse 43 (on fuse panel B)
T4x   4-pin connector
T5m   5-pin connector
T14a  14-pin connector
T26   26-pin connector
T40   40-pin connector
V7    Radiator fan

D180  Connection 87a (in engine compartment wiring harness)
D206  Connection 87a (in engine pre-wiring harness) 4

* Only for right-hand drive vehicles
Fuse panel B, Fuse 17 (on fuse panel B), Fuse 18 (on fuse panel B), Fuse 23 (on fuse panel B), Fuse 24 (on fuse panel B)

- J285 Instrument cluster control module
- J527 Steering column electronics control module
- J533 Data bus on board diagnostic interface
- J623 Engine control module
- R12 Amplifier
- SB Fuse panel B
- SB17 Fuse 17 (on fuse panel B)
- SB18 Fuse 18 (on fuse panel B)
- SB21 Fuse 21 (on fuse panel B)
- SB22 Fuse 22 (on fuse panel B)
- SB23 Fuse 23 (on fuse panel B)
- SB24 Fuse 24 (on fuse panel B)
- SC47 Fuse 47 (on fuse panel C)
- T16r 16-pin connector
- T20 20-pin connector
- T32 32-pin connector
- T38 38-pin connector
- T40 40-pin connector
- T94 94-pin connector
- B504 Positive connection 8 (30a) (in interior wiring harness)
- D78 Positive connection 1 (30a) (in engine compartment wiring harness)

* Only for vehicles with Start/Stop system

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

https://www.automotive-manuals.net/
Radio/navigation display unit control module, Engine component power supply relay, Fuse panel B, Fuse 19 (on fuse panel B), Fuse 20 (on fuse panel B), Fuse 49 (on fuse panel B)

- **J412** Cell phone operating electronics control module
- **J503** Radio/navigation display unit control module
- **J623** Engine control module
- **J681** Terminal 15 power supply relay 2
- **J757** Engine component power supply relay
- **R** Radio
- **SB** Fuse panel B
- **SB6** Fuse 6 (on fuse panel B)
- **SB10** Fuse 10 (on fuse panel B)
- **SB16** Fuse 16 (on fuse panel B)
- **SB19** Fuse 19 (on fuse panel B)
- **SB20** Fuse 20 (on fuse panel B)
- **SB25** Fuse 25 (on fuse panel B)
- **SB26** Fuse 26 (on fuse panel B)
- **SB28** Fuse 28 (on fuse panel C)
- **SB49** Fuse 49 (on fuse panel B)
- **SB50** Fuse 50 (on fuse panel B)
- **T9ah** 9-pin connector
- **T26** 26-pin connector
- **T40** 40-pin connector
- **T94** 94-pin connector
- **B224** Radio connection 1 (in interior wiring harness)
- **B314** Positive connection 18 (30) (in main wiring harness)
- **SC28**
- **SB16**
- **SB19**
- **SB20**
- **SB25**
- **SB26**
- **SC28**
- **J412**
- **J503**
- **J623**
- **SB49**

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

https://www.automotive-manuals.net/
Fuse panel B, Fuse 7 (on fuse panel B), Fuse 9 (on fuse panel B), Fuse 11 (on fuse panel B), Fuse 12 (on fuse panel B), Oxygen sensor heater, Heater for oxygen sensor 1 after catalytic converter

N75 Wastegate bypass regulator valve
N80 EVAP canister purge regulator valve 1
N249 Turbocharger recirculation valve
N276 Fuel pressure regulator valve
SB Fuse panel B
SB7 Fuse 7 (on fuse panel B)
SB8 Fuse 8 (on fuse panel B)
SB9 Fuse 9 (on fuse panel B)
SB11 Fuse 11 (on fuse panel B)
SB12 Fuse 12 (on fuse panel B)
SB32 Fuse 32 (on fuse panel B)
SB44 Fuse 44 (on fuse panel B)
SB45 Fuse 45 (on fuse panel B)
SB46 Fuse 46 (on fuse panel B)
T4v 4-pin connector
T6w 6-pin connector
T14a 14-pin connector
T26 26-pin connector
T40 40-pin connector
Z19 Oxygen sensor heater
Z29 Heater for oxygen sensor 1 after catalytic converter

(D189) Connection 87a (in engine pre-wiring harness)