

Passat

Current Flow Diagram

No. 14 / 1

06.2012

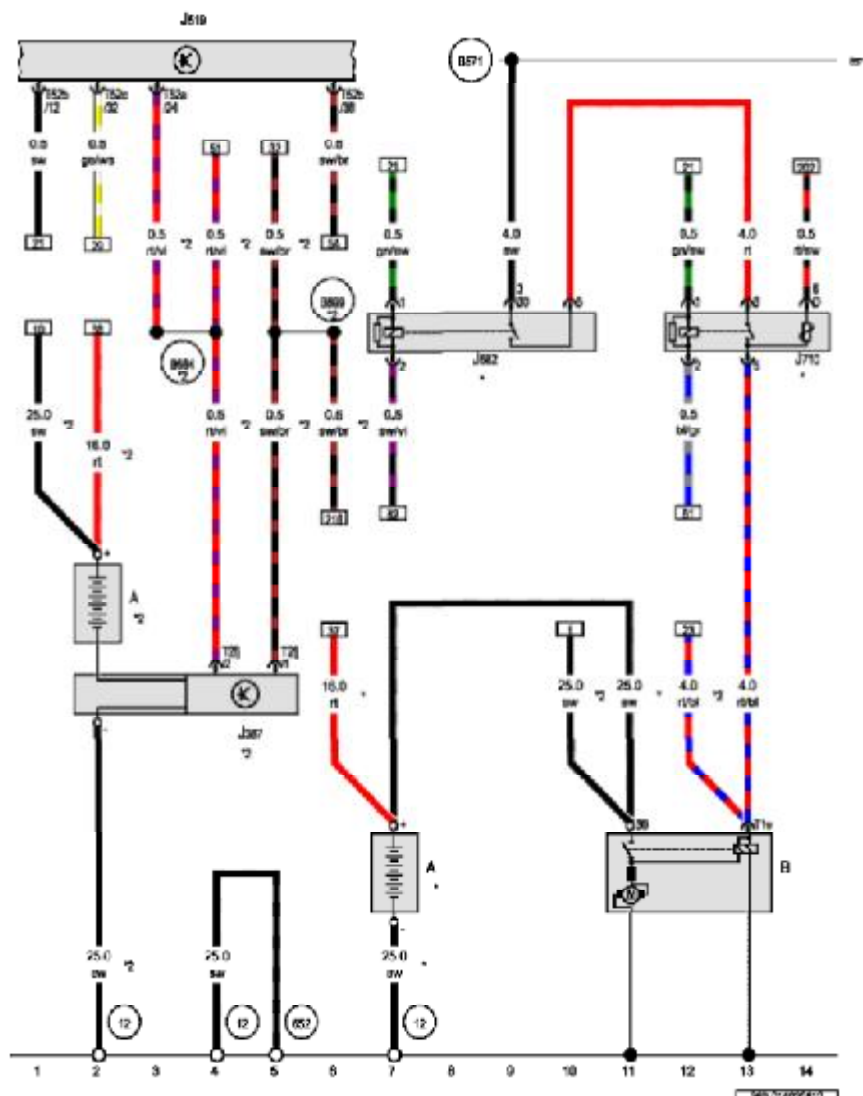
2.0l diesel engine , CFFA,CFFB,CFGB,CLLA

From November 2010

Passat

Current Flow Diagram

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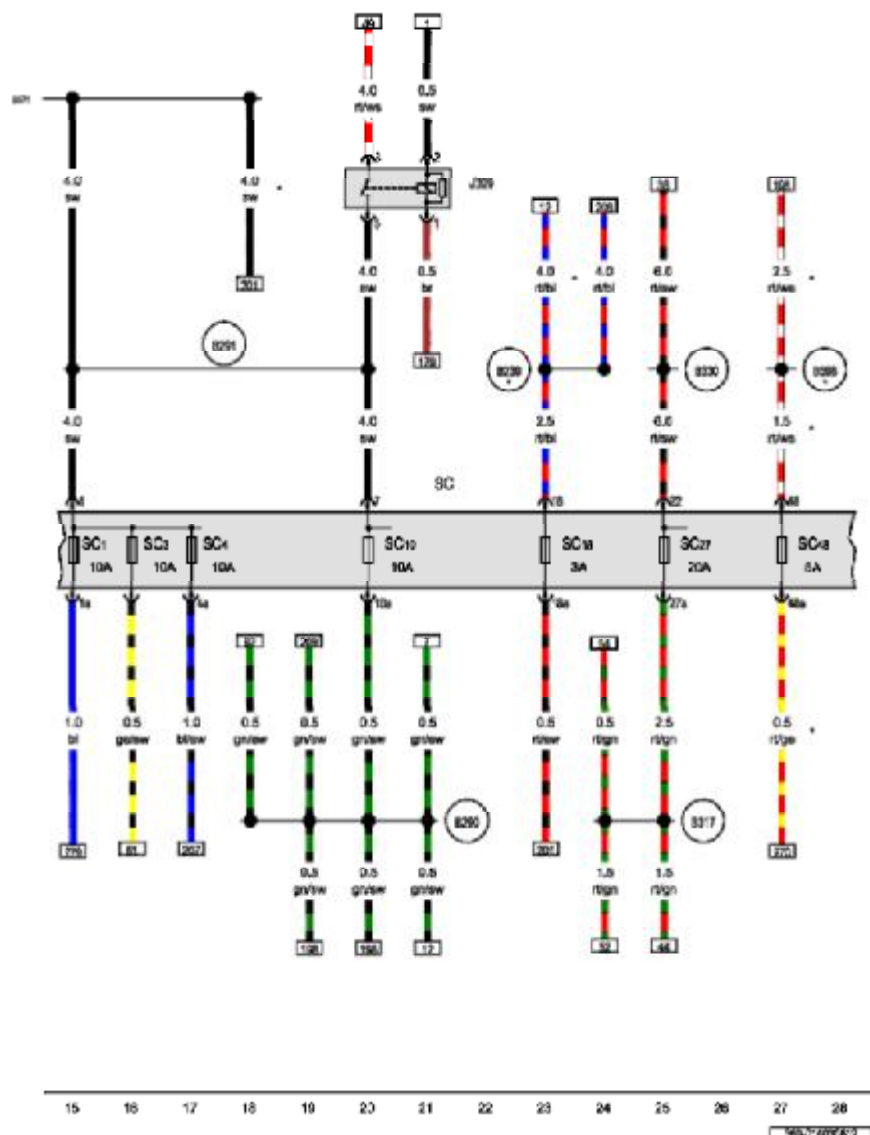
Battery, Starter, Battery monitor control unit, Onboard supply control unit, Terminal 50 voltage supply relay, Voltage supply relay 2

- A - Battery
- B - Starter
- J367 - Battery monitor control unit
- J519 - Onboard supply control unit
- J682 - Terminal 50 voltage supply relay
- J710 - Voltage supply relay 2
- T1ac - Single connector
- T1v - Single connector
- T2fj - 2-pin connector
- T52a - 52-pin connector
- T52b - 52-pin connector
- T52c - 52-pin connector
- 12 - Earth point, on left in engine compartment
- 652 - Earth point, engine and gearbox earth
- B571 - Connection 38, in main wiring harness
- B684 - Positive connection 24 (30a) in main wiring harness
- B699 - Connection 4 (LIN bus) in main wiring harness
- * - Only models with no start/stop system
- *2 - Only models with start/stop system

Passat

Current Flow Diagram

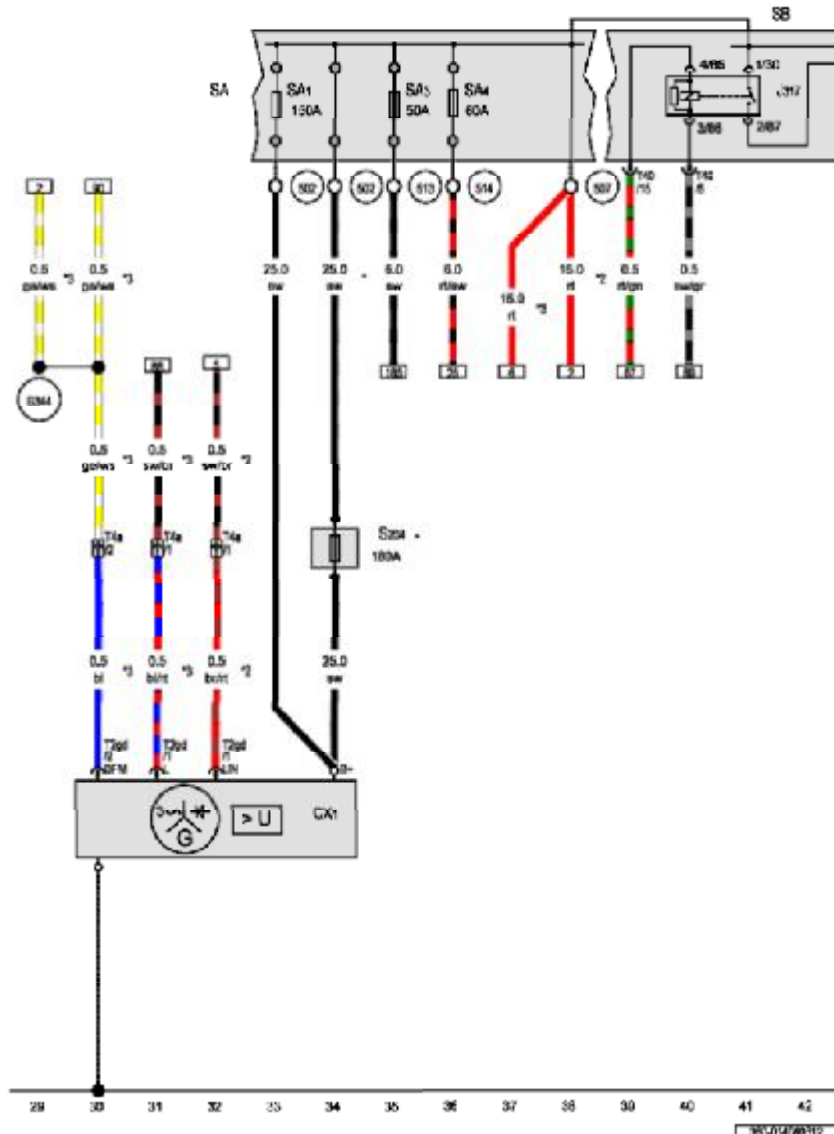
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Current Flow Diagram

No. 14 / 4



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

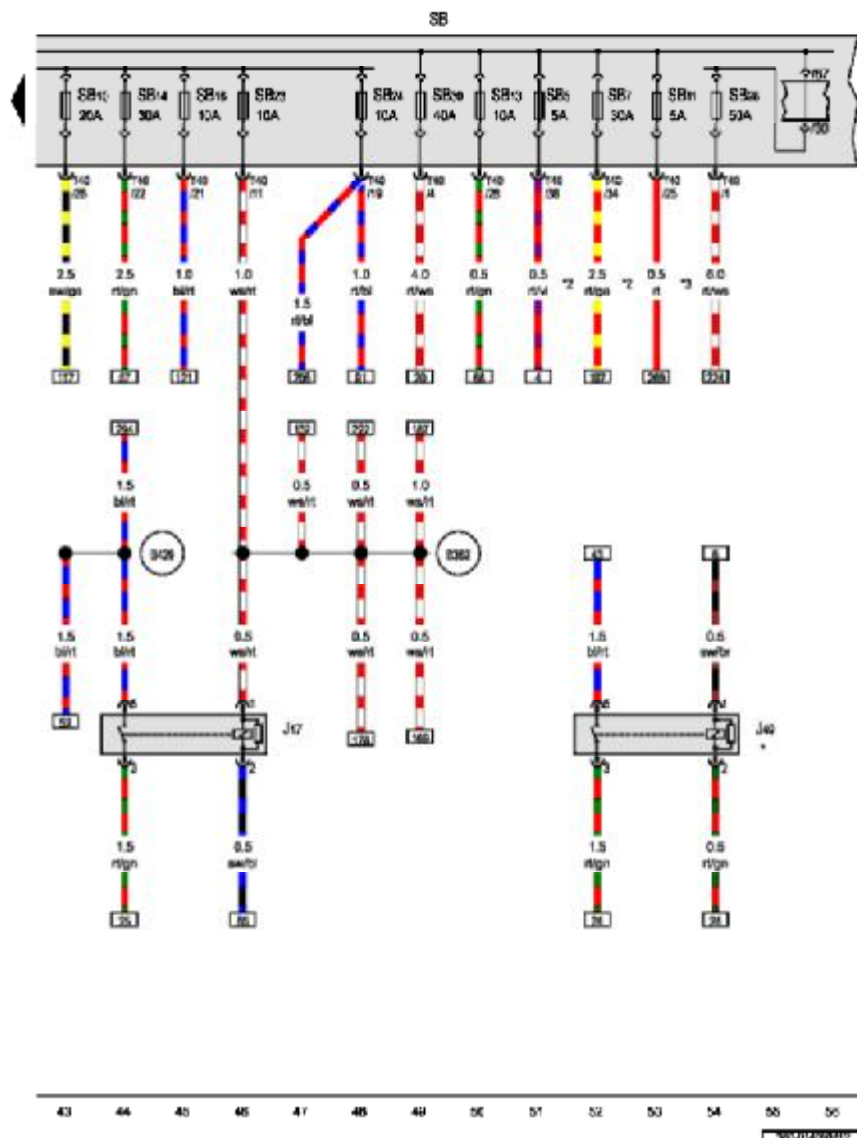
Terminal 30 voltage supply relay, Fuse holder A, Fuse holder B

- CX1 - Alternator with voltage regulator
- J317 - Terminal 30 voltage supply relay
- SA - Fuse holder A
- SA1 - Fuse 1 in fuse holder A
- SA3 - Fuse 3 in fuse holder A
- SA4 - Fuse 4 in fuse holder A
- S204 - Fuse 1 (30)
- SB - Fuse holder B
- T1a - Single connector
- T1ac - Single connector
- T2gd - 2-pin connector
- T2xr - 2-pin connector
- T4a - 4-pin connector, near starter
- T40 - 40-pin connector
- 502 - Threaded connection 1 (30a) on relay plate
- 507 - Threaded connection (30), on battery fuse holder
- 513 - Threaded connection 3 (30a) on relay plate
- 514 - Threaded connection 4 (30a) on relay plate
- B344 - Connection 1 (61), in main wiring harness
- * - According to equipment
- *2 - Only models with start/stop system
- *3 - Only models with no start/stop system

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Current Flow Diagram

No. 14 / 5



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

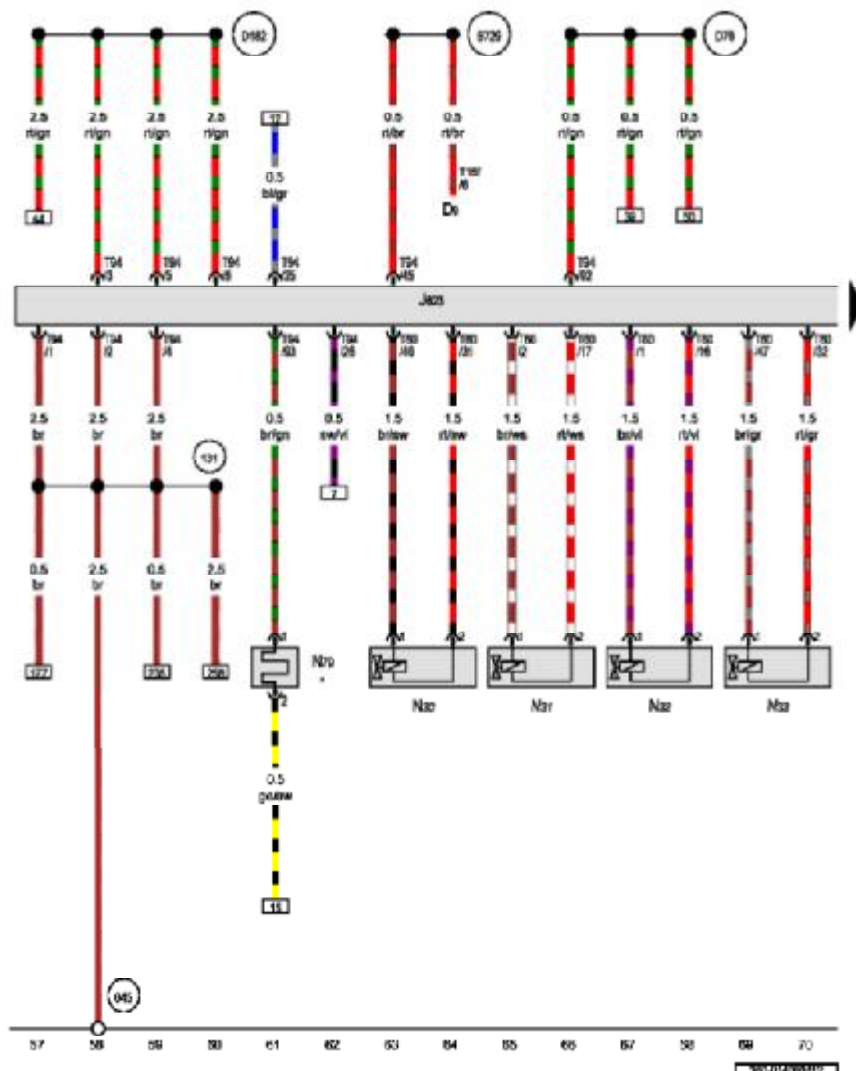
Fuel pump relay, Electric fuel pump 2 relay, Fuse holder B

- J17 - Fuel pump relay
- J49 - Electric fuel pump 2 relay
- SB - Fuse holder B
- SB5 - Fuse 5 on fuse holder B
- SB7 - Fuse 7 on fuse holder B
- SB10 - Fuse 10 on fuse holder B
- SB11 - Fuse 11 on fuse holder B
- SB13 - Fuse 13 on fuse holder B
- SB14 - Fuse 14 on fuse holder B
- SB16 - Fuse 16 on fuse holder B
- SB23 - Fuse 23 on fuse holder B
- SB24 - Fuse 24 on fuse holder B
- SB28 - Fuse 28 on fuse holder B
- SB30 - Fuse 30 on fuse holder B
- T40 - 40-pin connector
- B362 - Positive connection 13 (87a) in main wiring harness
- B429 - Connection (EFPR), in main wiring harness
- * - Only models with auxiliary heating
- *2 - Only models with start/stop system
- *3 - Only models with no start/stop system

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Current Flow Diagram

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Electronic ignition lock, Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4, Heater element for crankcase breather

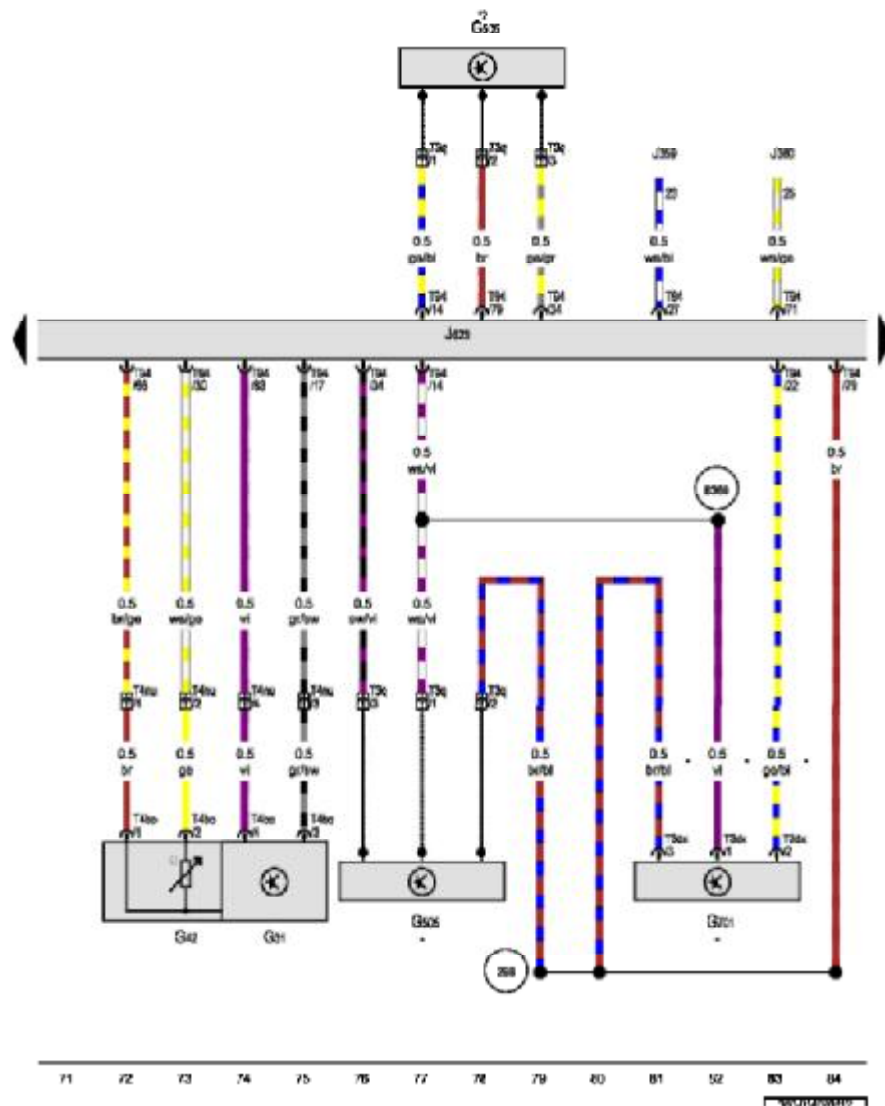
- D9 - Electronic ignition lock
- J623 - Engine control unit
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- N79 - Heater element for crankcase breather
- T16f - 16-pin connector
- T60 - 60-pin connector
- T94 - 94-pin connector
- 131 - Earth connection 2, in engine compartment wiring harness
- 645 - Earth point 1, on bulkhead
- B729 - Connection 1 (50), in main wiring harness
- D78 - Positive connection 1 (30a), in engine compartment wiring harness
- D182 - Connection 3 (87a) in engine compartment wiring harness
- * - Only for countries with cold climate

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

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Current Flow Diagram

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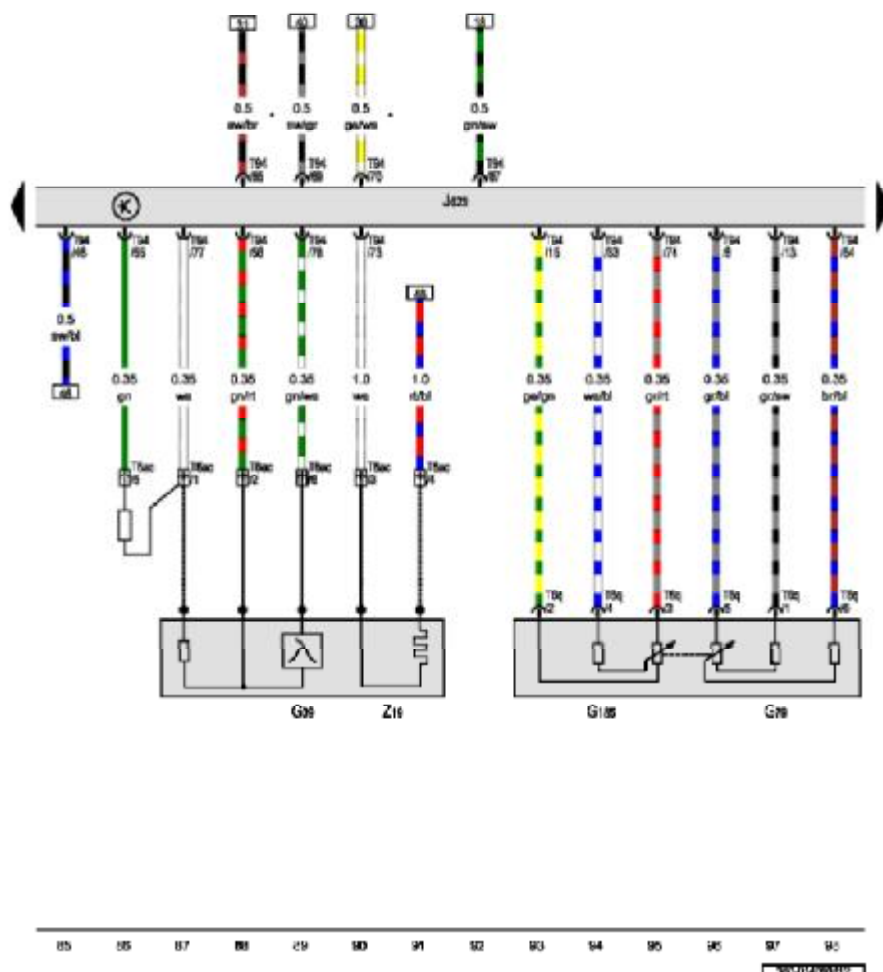
Charge pressure sender, Intake air temperature sender, Pressure differential sender, Gearbox neutral position sender, Low heat output relay, High heat output relay, Engine control unit

- G31 - Charge pressure sender
- G42 - Intake air temperature sender
- G505 - Pressure differential sender
- G701 - Gearbox neutral position sender
- J359 - Low heat output relay
- J360 - High heat output relay
- J623 - Engine control unit
- T3dx - 3-pin connector
- T3q - 3-pin connector, black
- T4bo - 4-pin connector
- T4nu - 4-pin connector, black
- T94 - 94-pin connector
- 298 - Earth connection 13, in interior wiring harness
- B369 - Connection 1 (5V), in main wiring harness
- * - Only models with start/stop system
- *2 - Only models with no start/stop system


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Current Flow Diagram

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Lambda probe, Accelerator position sender, Engine control unit

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

ws = white
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ro = red
rt = red
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gn = green
bl = blue
gr = grey
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Current Flow Diagram

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Radiator outlet coolant temperature sender, Exhaust gas temperature sender 1, Exhaust gas temperature sender 3, Exhaust gas temperature sender 4, Engine control unit

G83 - Radiator outlet coolant temperature sender

G235 - Exhaust gas temperature sender 1

G495 - Exhaust gas temperature sender 3

G648 - Exhaust gas temperature sender 4

J623 - Engine control unit 

T2eh - 2-pin connector

T2jy - 2-pin connector, black

T2jz - 2-pin connector, brown

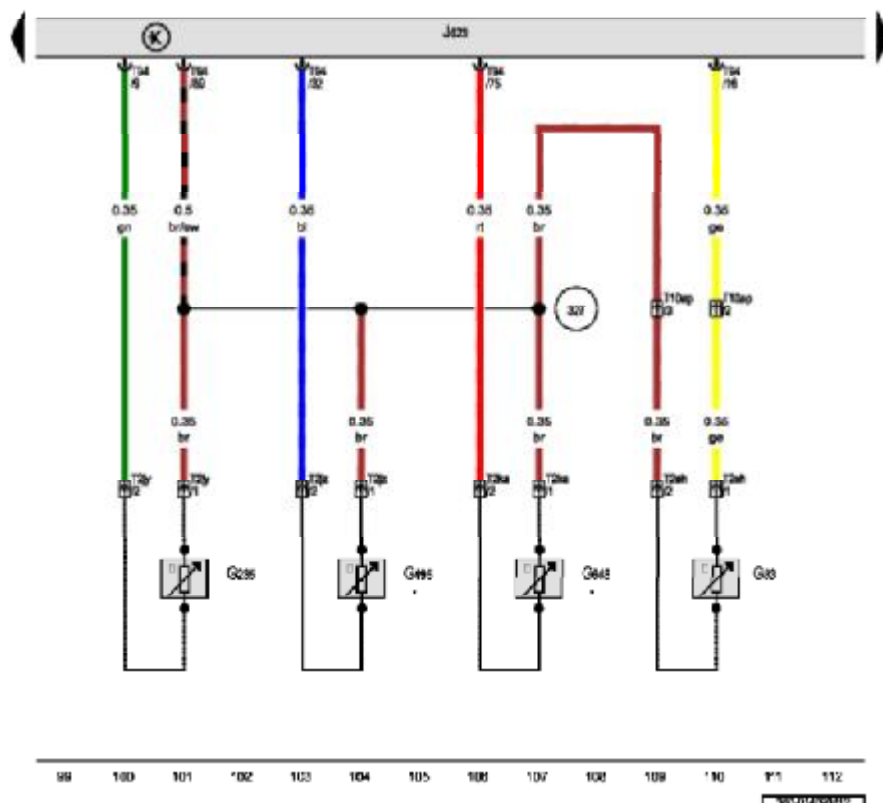
T2ka - 2-pin connector, dark brown

T10ap - 10-pin connector, near left headlight

T94 - 94-pin connector

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

* - According to equipment



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

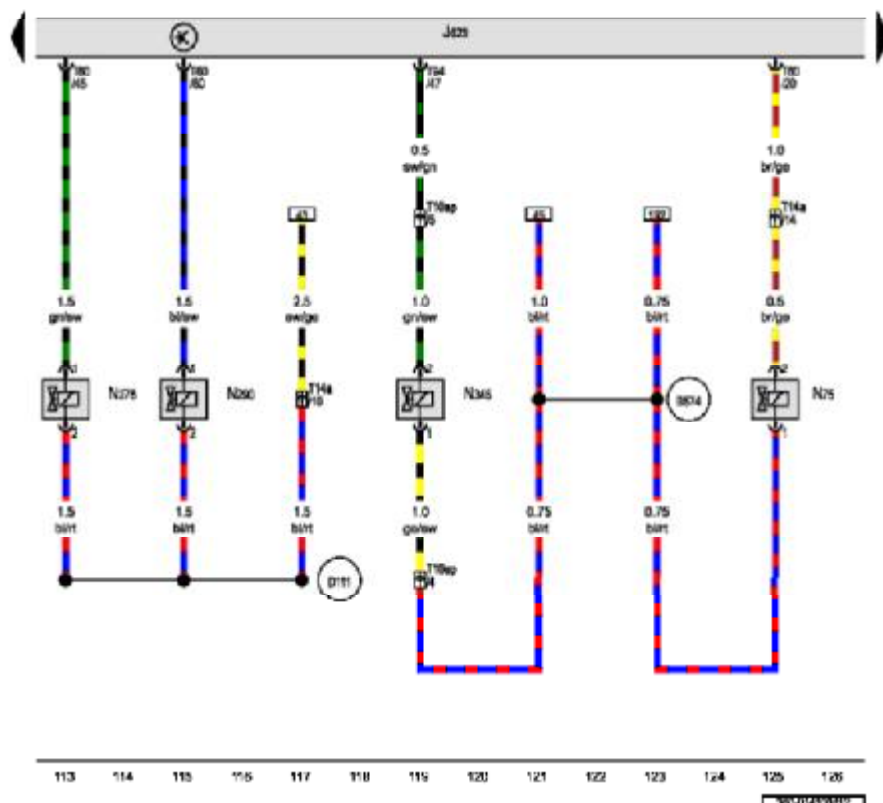
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Current Flow Diagram

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Engine control unit, Charge pressure control solenoid valve, Fuel pressure regulating valve, Fuel metering valve, Exhaust gas recirculation cooler changeover valve

- J623 - Engine control unit
- N75 - Charge pressure control solenoid valve
- N276 - Fuel pressure regulating valve
- N290 - Fuel metering valve
- N345 - Exhaust gas recirculation cooler changeover valve
- T10ap - 10-pin connector, near left headlight
- T14a - 14-pin connector, on left in engine compartment
- T60 - 60-pin connector
- T94 - 94-pin connector
- B574 - Positive connection 20 (87a) in main wiring harness
- D111 - Connection 9 in engine compartment wiring harness





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

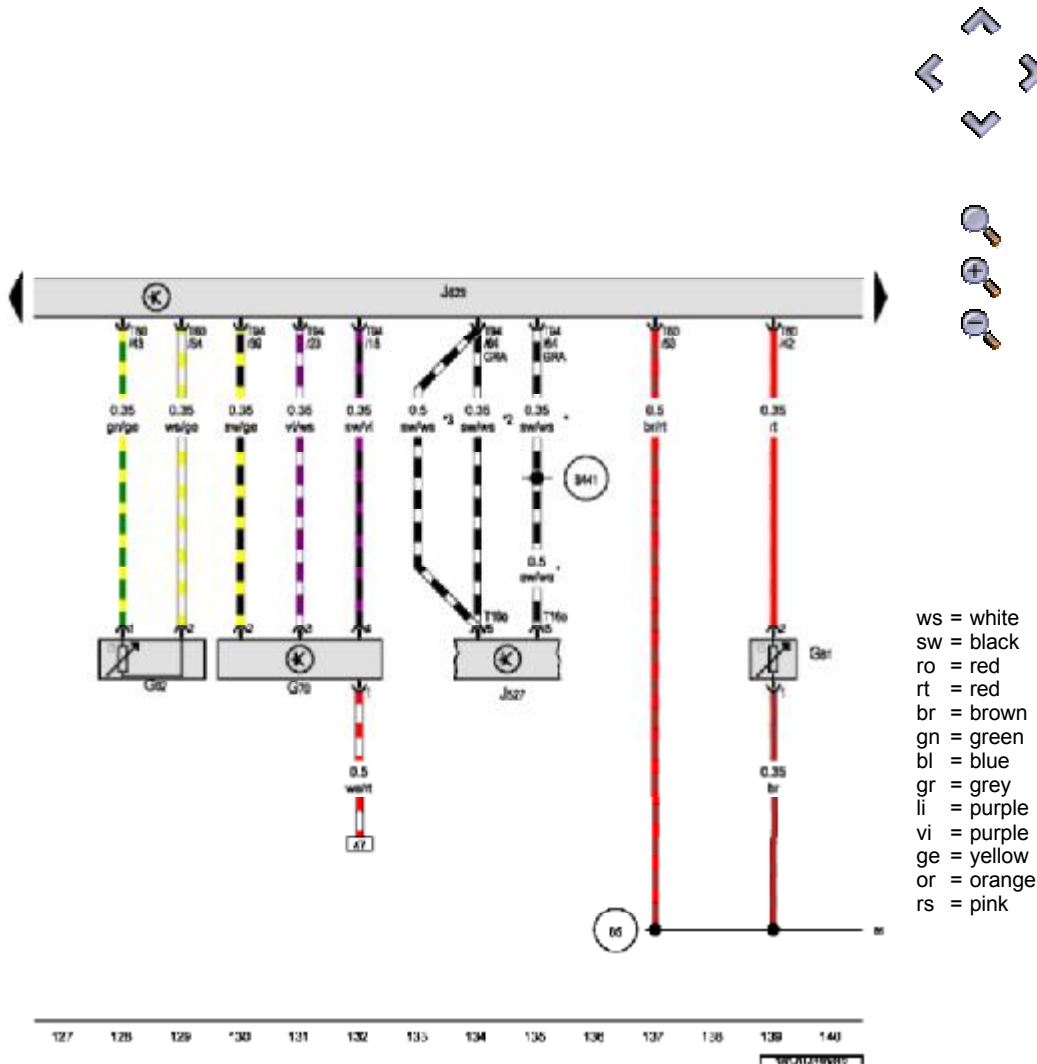
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Current Flow Diagram

No. 14 / 11

Coolant temperature sender, Air mass meter, Fuel temperature sender, Steering column electronics control unit, Engine control unit

- G62 - Coolant temperature sender
- G70 - Air mass meter
- G81 - Fuel temperature sender
- J527 - Steering column electronics control unit 
- J623 - Engine control unit 
- T160 - 16-pin connector
- T60 - 60-pin connector
- T94 - 94-pin connector
- 85 - Earth connection 1, in engine compartment wiring harness
- B441 - Connection (CCS), in main wiring harness
- * - Only models with adaptive cruise control (ACC)
- *2 - Only models with cruise control system (CCS)
- *3 - gradual introduction




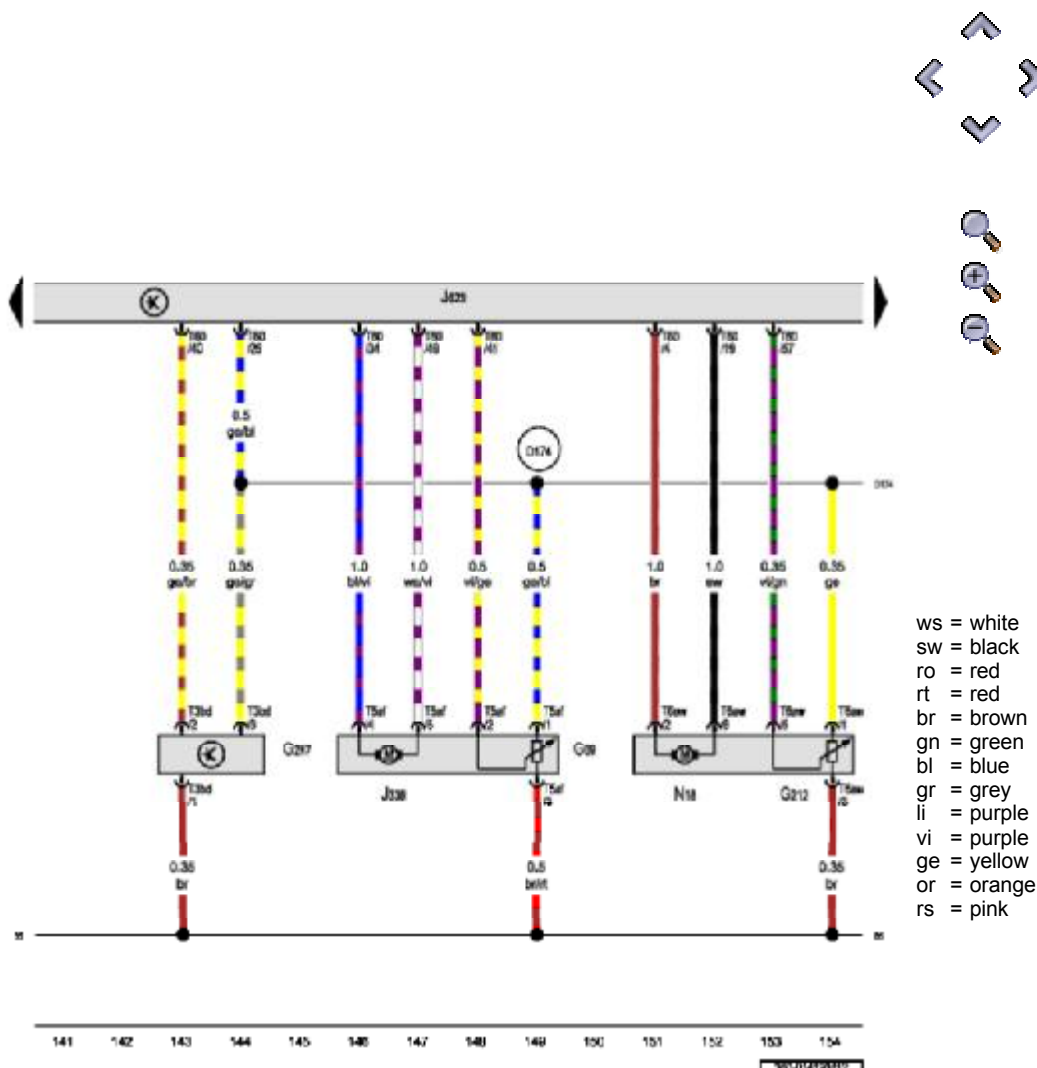
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Current Flow Diagram

No. 14 / 12

Throttle valve potentiometer, Exhaust gas recirculation potentiometer, Fuel pressure sender, Throttle valve module, Engine control unit, Exhaust gas recirculation valve

- G69 - Throttle valve potentiometer
- G212 - Exhaust gas recirculation potentiometer
- G247 - Fuel pressure sender
- J338 - Throttle valve module
- J623 - Engine control unit 
- N18 - Exhaust gas recirculation valve
- T3bd - 3-pin connector
- T5af - 5-pin connector
- T6aw - 6-pin connector
- T60 - 60-pin connector
- 85 - Earth connection 1, in engine compartment wiring harness
- D174 - Connection 2 (5V) in engine prewiring harness




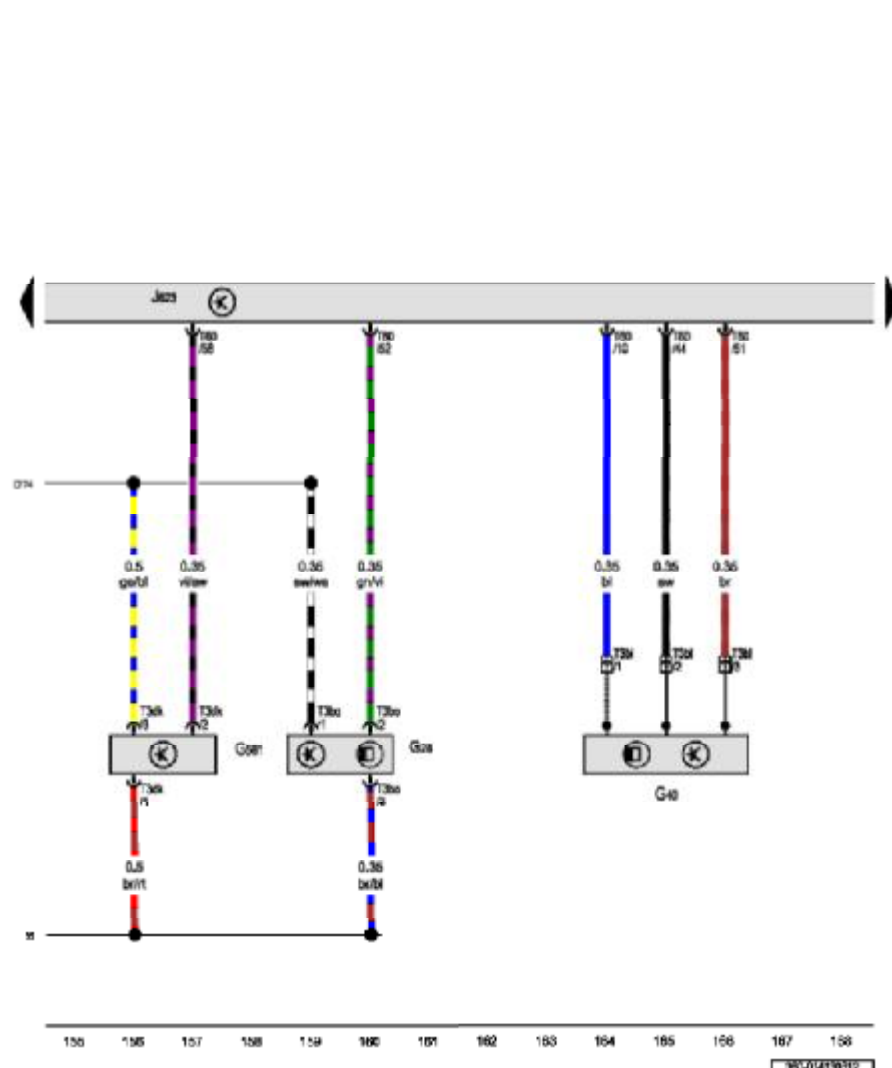
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Current Flow Diagram

No. 14 / 13

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

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



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Current Flow Diagram

No. 14 / 14

Brake light switch, Clutch position sender, Onboard supply control unit, Engine control unit

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

249 - Earth connection 2, in interior wiring harness

398 - Earth connection 33, in main wiring harness

639 - Earth point, left A-pillar

B335 - Connection 1 (54), in main wiring harness

D109 - Connection 7 in engine compartment wiring harness

* - Only models with dual clutch gearbox (DSG)

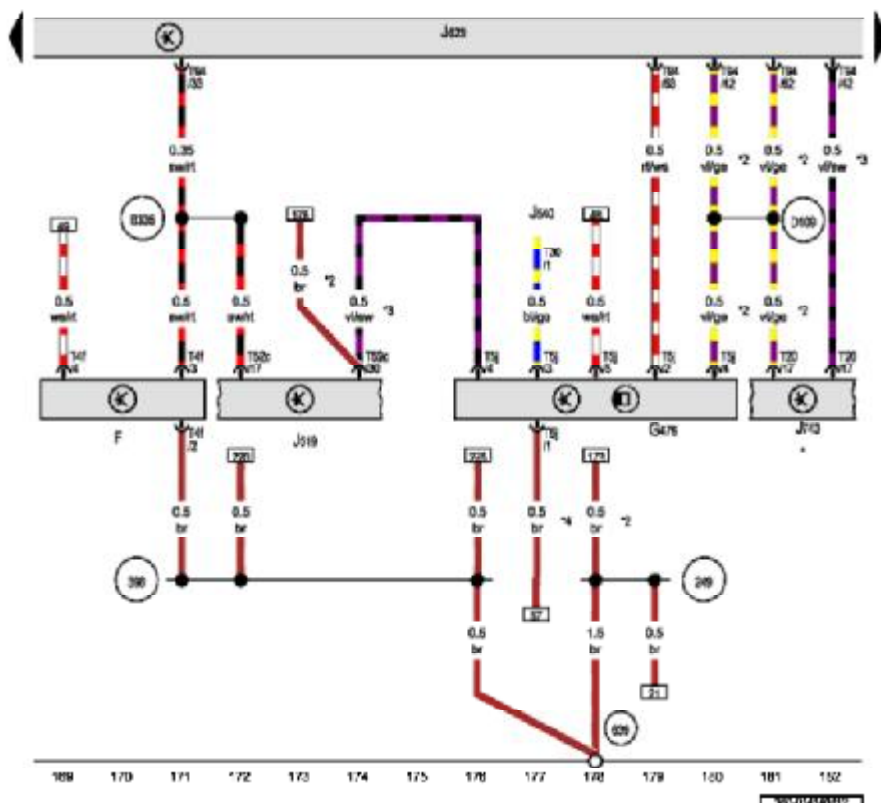
*2 - Only models with start/stop system

*3 - Only models with no start/stop system

*4 - Only models with extended servicing intervals (ESI)



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Current Flow Diagram

No. 14 / 15

Radiator fan control unit, Engine control unit, Radiator fan, Radiator fan 2, Coolant circulation pump 2

- J293 - Radiator fan control unit
- J623 - Engine control unit
- T2be - 2-pin connector, on lock carrier
- T3dl - 3-pin connector
- T4i - 4-pin connector, on lock carrier
- T14a - 14-pin connector, on left in engine compartment
- T60 - 60-pin connector
- T94 - 94-pin connector
- V7 - Radiator fan
- V177 - Radiator fan 2
- V178 - Coolant circulation pump 2
- 297 - Earth connection 12, in interior wiring harness

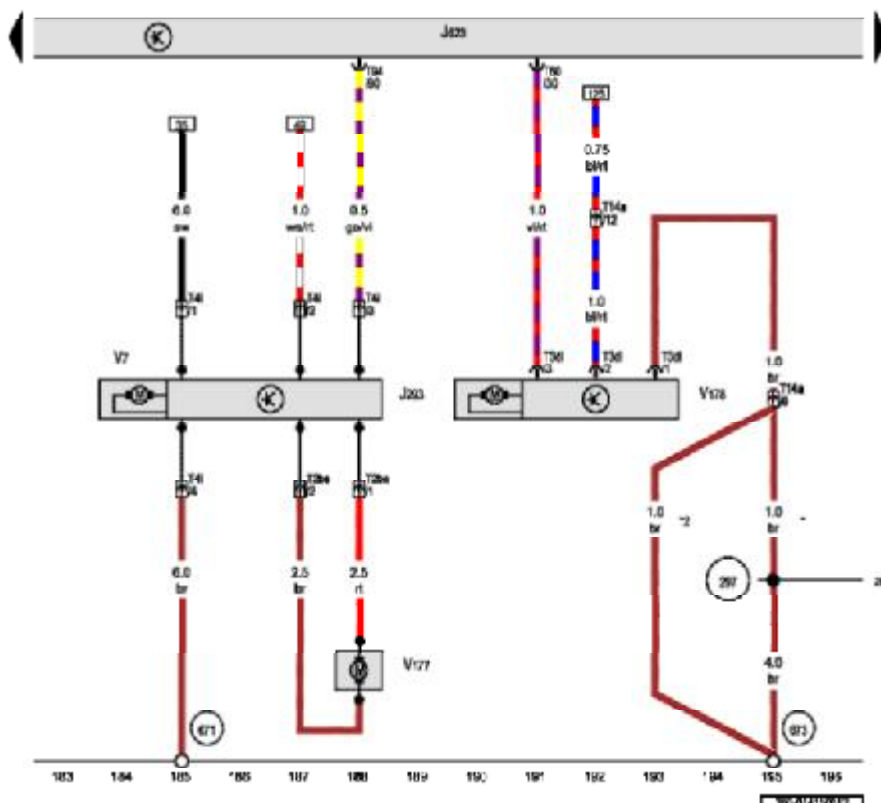
671 - Earth point 1, on front of left longitudinal member

673 - Earth point 3, on front of left longitudinal member

* - Only models with start/stop system

*2 - Only models with no start/stop system

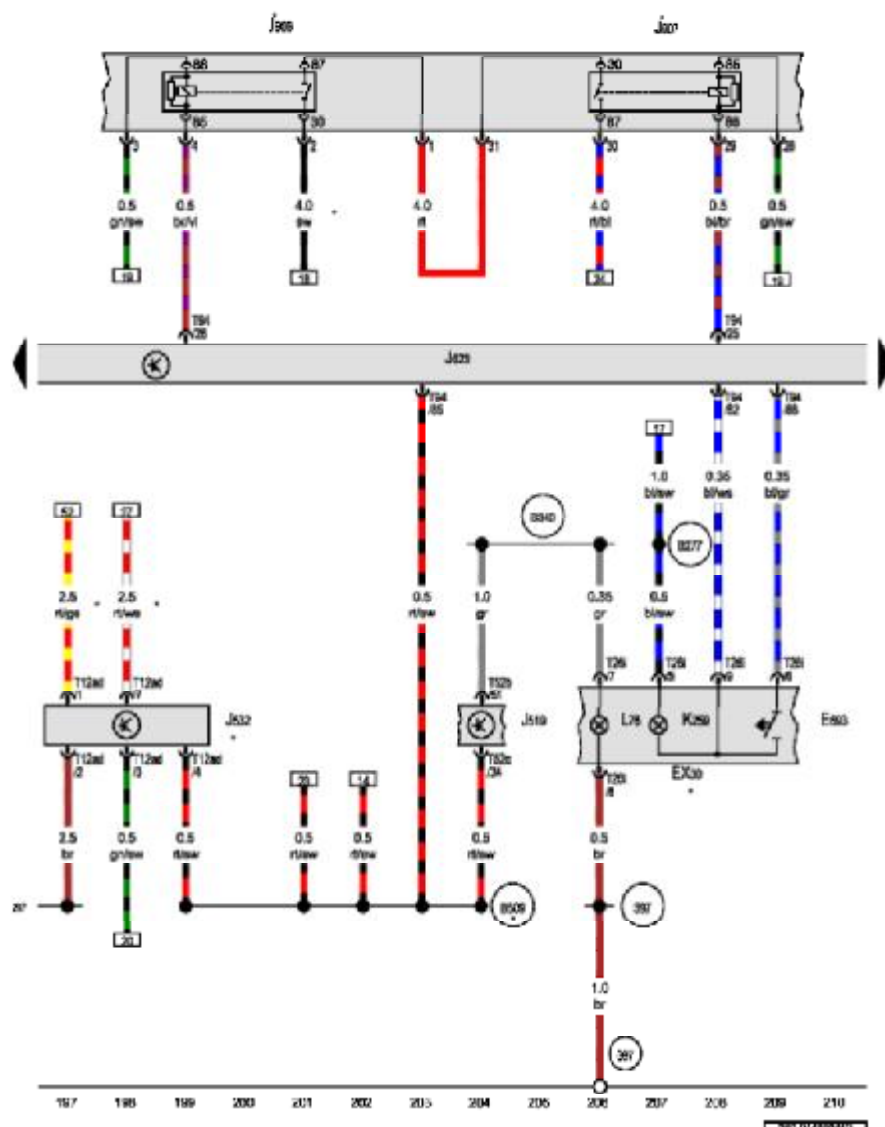
ws = white
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Current Flow Diagram

No. 14 / 16



Switch module 2 in centre console, Start/Stop operation button, Onboard supply control unit, Voltage stabiliser, Engine control unit, Starter relay 1, Starter relay 2

- EX30 - Switch module 2 in centre console
- E693 - Start/Stop operation button
- J519 - Onboard supply control unit
- J532 - Voltage stabiliser
- J623 - Engine control unit
- J906 - Starter relay 1
- J907 - Starter relay 2
- K259 - Start/Stop operation warning lamp
- L76 - Button illumination bulb
- T12ad - 12-pin connector
- T26i - 26-pin connector
- T52b - 52-pin connector
- T52c - 52-pin connector
- T94 - 94-pin connector
- 297 - Earth connection 12, in interior wiring harness
- 397 - Earth connection 32, in main wiring harness
- 687 - Earth point 1, on centre tunnel
- B277 - Positive connection 1 (15a) in main wiring harness
- B340 - Connection 1 (58d), in main wiring harness
- B509 - Connection 3 (diagnosis), in main wiring harness
- * - Only models with start/stop system


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Current Flow Diagram

No. 14 / 17

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

J179 - Automatic glow period control unit 

J533 - Data bus diagnostic interface 

J623 - Engine control unit 

Q10 - Glow plug 1

Q11 - Glow plug 2

Q12 - Glow plug 3

Q13 - Glow plug 4

T14a - 14-pin connector, on left in engine compartment

T16d - 16-pin connector

T20e - 20-pin connector

T94 - 94-pin connector

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

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

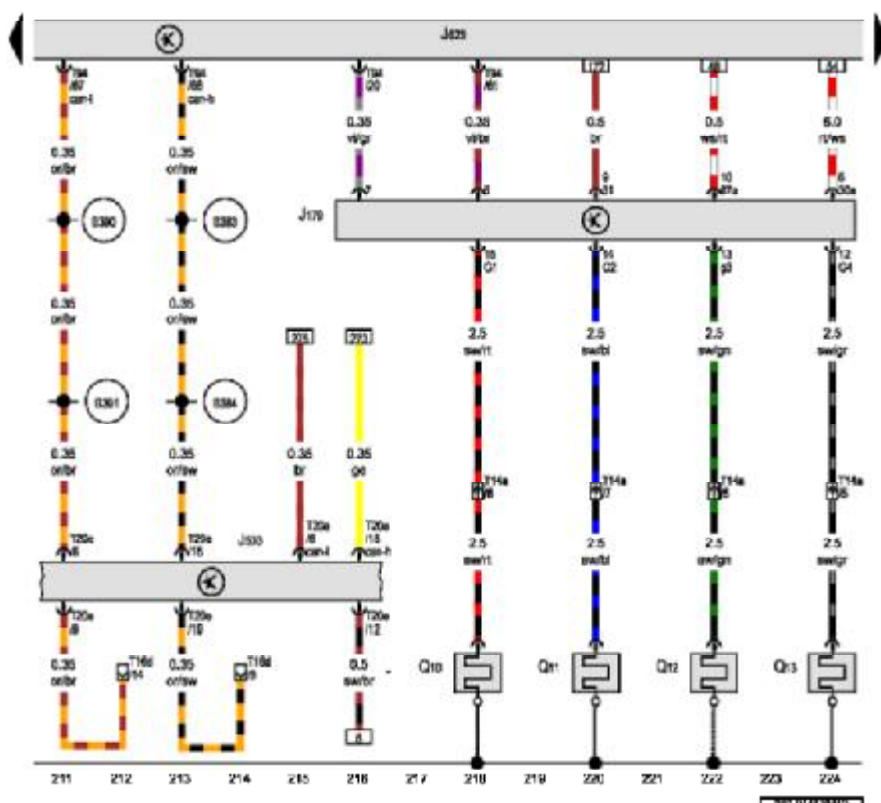
B390 - Connection 1 (powertrain CAN bus, low), in main wiring harness

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

* - Only models with start/stop system



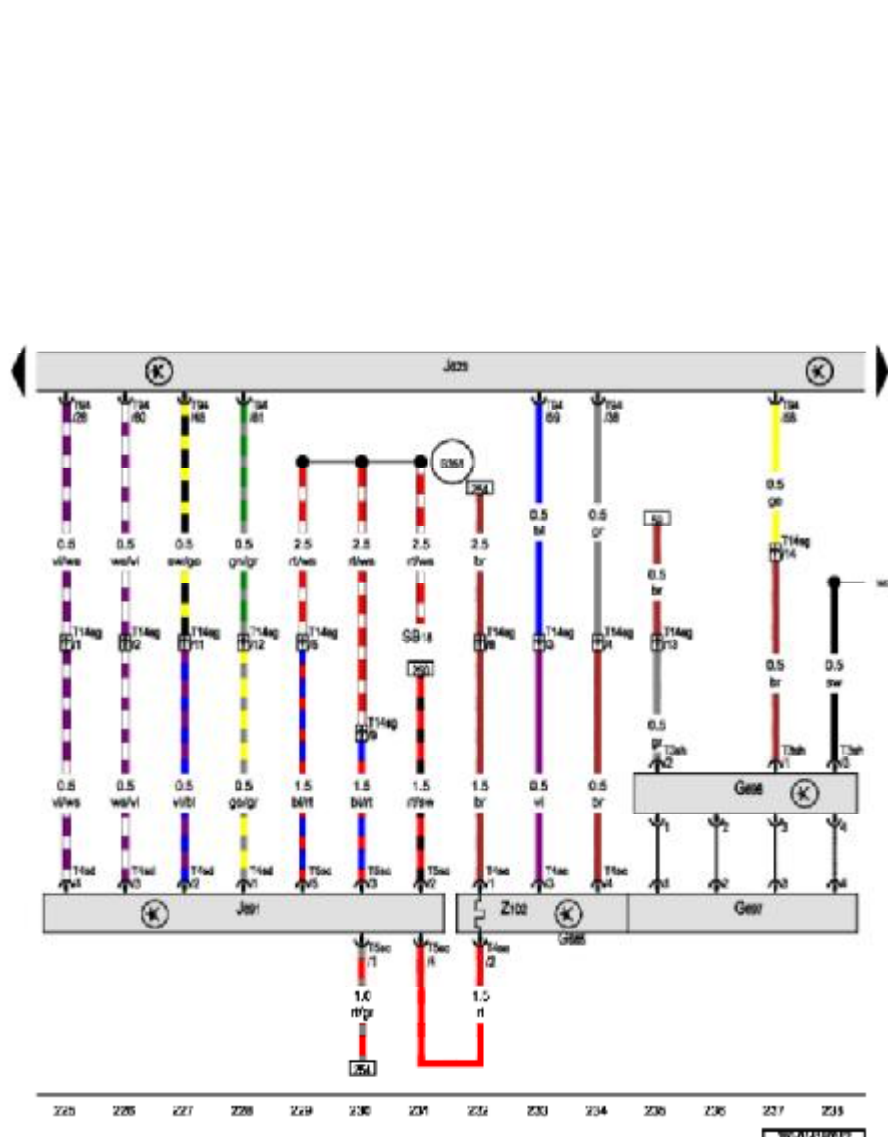
ws = white
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ro = red
rt = red
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gn = green
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Current Flow Diagram

No. 14 / 18



Temperature sender for reducing agent, Reducing agent level sender, Evaluation unit for reducing agent level, Engine control unit, Control unit for reducing-agent heater

G685 - Temperature sender for reducing agent

G697 - Reducing agent level sender

G698 - Evaluation unit for reducing agent level

J623 - Engine control unit

J891 - Control unit for reducing-agent heater

SB18 - Fuse 18 on fuse holder B

T3sh - 3-pin connector

T4sd - 4-pin connector

T4se - 4-pin connector

T5sc - 5-pin connector

T14sg - 14-pin connector

T94 - 94-pin connector

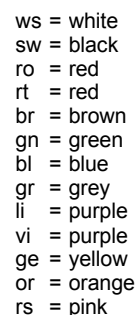
Z102 - Heater for reducing-agent tank (heater circuit 1)

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

W67 - Connection (87), in floor wiring harness

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

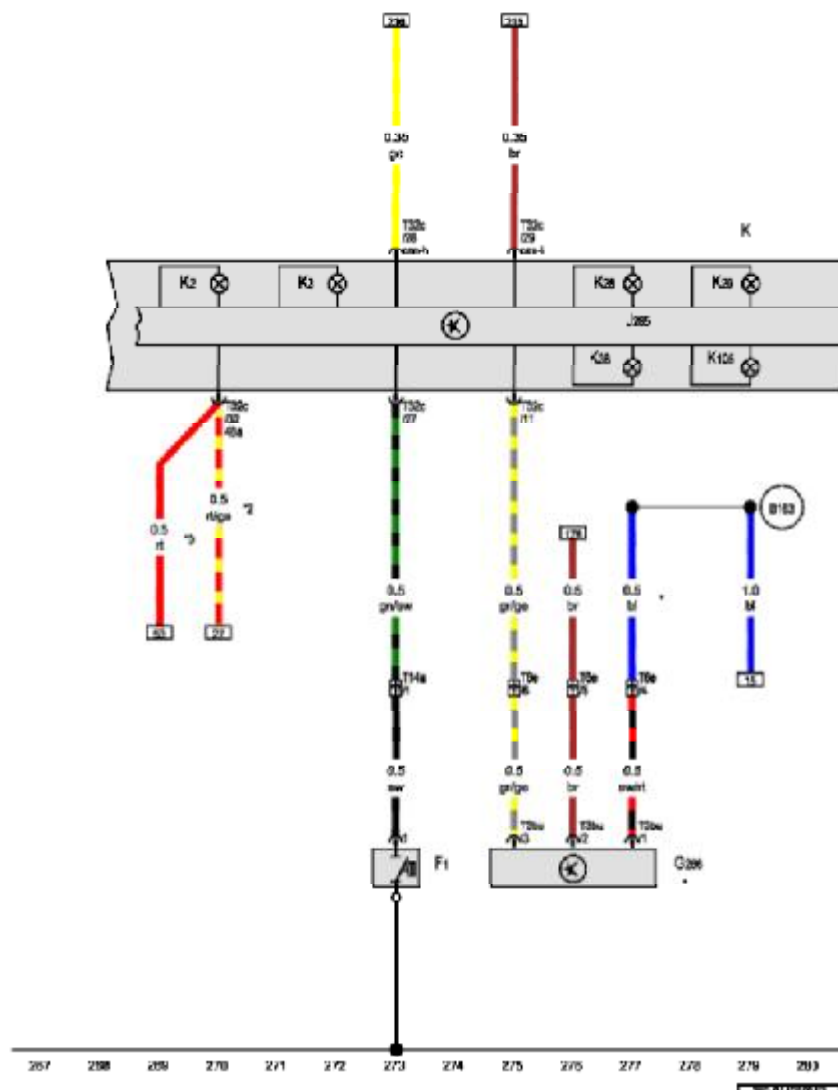
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Current Flow Diagram

No. 14 / 21



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

Oil pressure switch, Oil level and oil temperature sender, Control unit in dash panel insert, Dash panel insert, Alternator warning lamp, Oil pressure warning lamp, Coolant temperature and coolant shortage warning lamp, Glow period warning lamp, Oil level warning lamp, Reserve fuel warning lamp

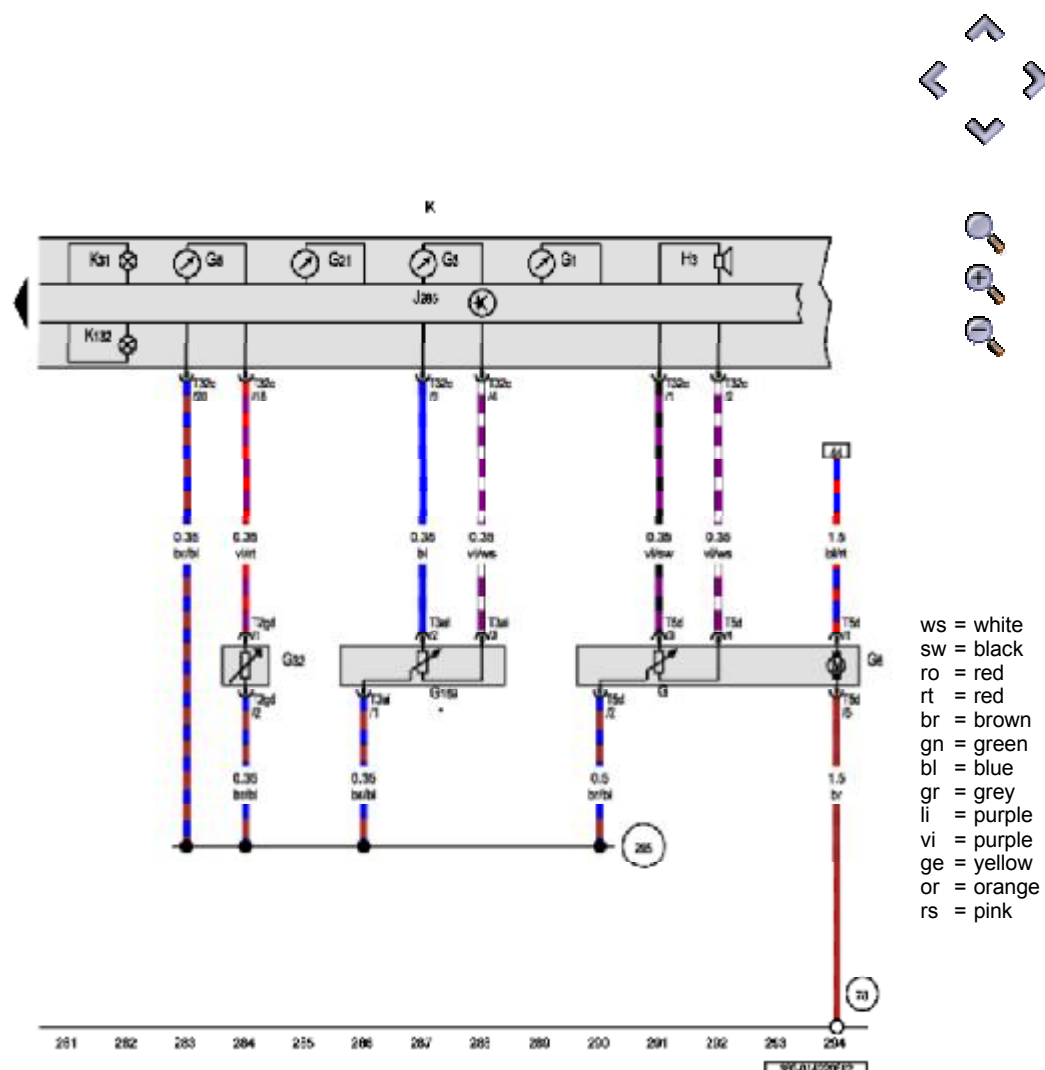
- F1 - Oil pressure switch
- G266 - Oil level and oil temperature sender
- J285 - Control unit in dash panel insert
- K - Dash panel insert
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature and coolant shortage warning lamp
- K29 - Glow period warning lamp
- K38 - Oil level warning lamp
- K105 - Reserve fuel warning lamp
- T3bu - 3-pin connector
- T6e - 6-pin connector, front left in engine compartment
- T14a - 14-pin connector, on left in engine compartment
- T32c - 32-pin connector
- B163 - Positive connection 1 (15), in interior wiring harness

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

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Current Flow Diagram

No. 14 / 22



Fuel gauge sender, Fuel gauge, Coolant temperature gauge, Rev. counter, Fuel system pressurisation pump, Speedometer, Coolant shortage indicator sender, Buzzer and gong, Control unit in dash panel insert, Dash panel insert, Cruise control system warning lamp, Electronic power control fault lamp

- G - Fuel gauge sender
- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G6 - Fuel system pressurisation pump
- G21 - Speedometer
- G32 - Coolant shortage indicator sender
- G169 - Fuel gauge sender 2
- H3 - Buzzer and gong
- J285 - Control unit in dash panel insert
- K - Dash panel insert
- K31 - Cruise control system warning lamp
- K132 - Electronic power control fault lamp
- T2gd - 2-pin connector
- T3ai - 3-pin connector
- T5d - 5-pin connector
- T32c - 32-pin connector
- 78 - Earth point, lower part of right B-pillar
- 295 - Earth connection 10, in interior wiring harness
- * - Only models with all-wheel drive