

Touran

Current Flow Diagram

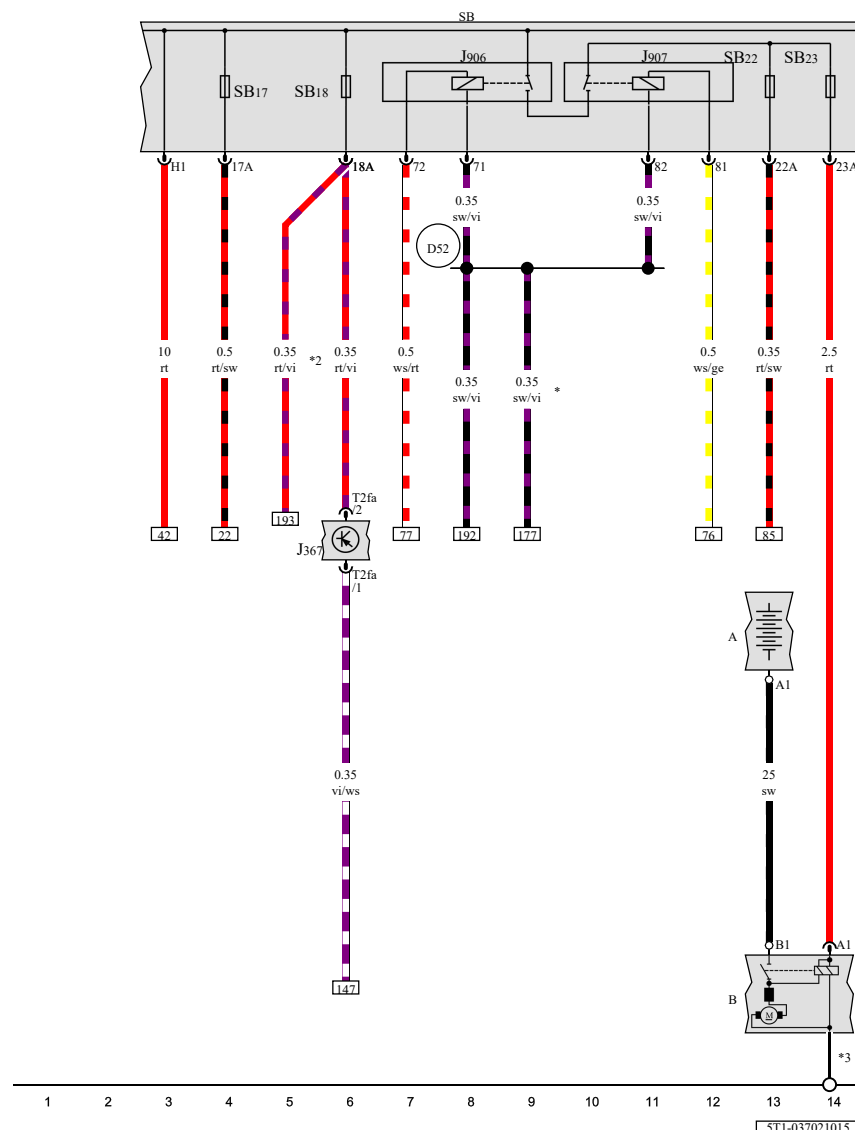
No. 37 / 1
10.2015

2.0l diesel engine , DFEA
From September 2015

Touran

Current Flow Diagram

No. 37 / 2


Battery, Starter, Battery monitor control unit, Starter relay 1, Starter relay 2, Fuse holder B

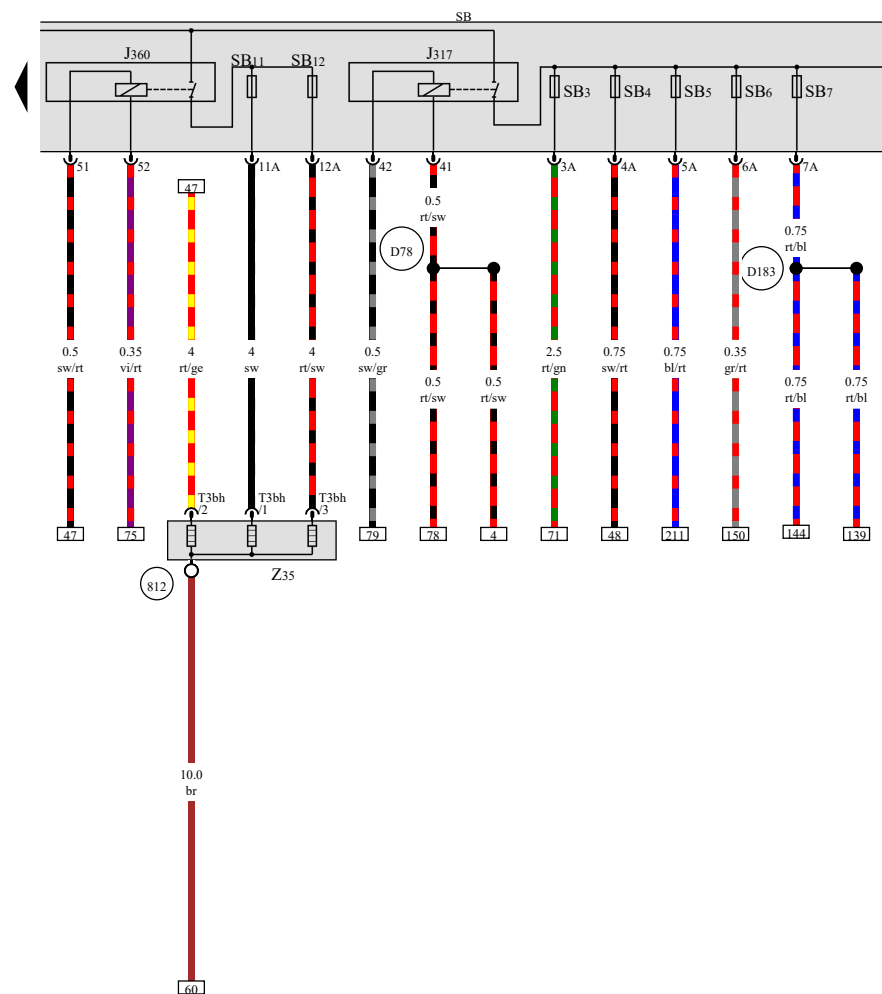
- A - Battery
- B - Starter
- J367 - Battery monitor control unit
- J906 - Starter relay 1
- J907 - Starter relay 2
- SB - Fuse holder B
- SB17 - Fuse 17 on fuse holder B
- SB18 - Fuse 18 on fuse holder B
- SB22 - Fuse 22 on fuse holder B
- SB23 - Fuse 23 on fuse holder B
- T2fa - 2-pin connector, black
- D52 - Positive connection (15a), in engine compartment wiring harness
- * - Only models with manual gearbox
- *2 - According to equipment
- *3 - Earth supply via housing

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

Touran

Current Flow Diagram

No. 37 / 3



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

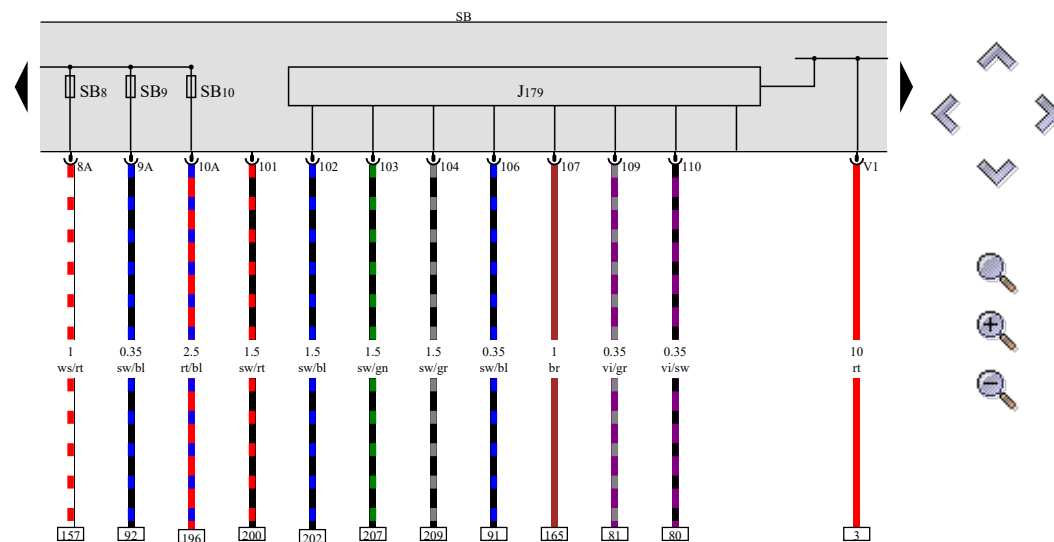
Terminal 30 voltage supply relay, High heat output relay, Fuse holder B, Auxiliary air heater element

- J317 - Terminal 30 voltage supply relay
- J360 - High heat output relay
- SB - Fuse holder B
- SB3 - Fuse 3 on fuse holder B
- SB4 - Fuse 4 on fuse holder B
- SB5 - Fuse 5 on fuse holder B
- SB6 - Fuse 6 on fuse holder B
- SB7 - Fuse 7 on fuse holder B
- SB11 - Fuse 11 on fuse holder B
- SB12 - Fuse 12 on fuse holder B
- T3bh - 3-pin connector, black
- Z35 - Auxiliary air heater element
- 812 - Earth point on heater element for auxiliary air heating
- D78 - Positive connection 1 (30a), in engine compartment wiring harness
- D183 - Connection 4 (87a) in engine compartment wiring harness

Touran

Current Flow Diagram

No. 37 / 4

**Automatic glow period control unit, Fuse holder B**

J179 - Automatic glow period control unit

SB - Fuse holder B

SB8 - Fuse 8 on fuse holder B

SB9 - Fuse 9 on fuse holder B

SB10 - Fuse 10 on fuse holder B









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

Current Flow Diagram

No. 37 / 5

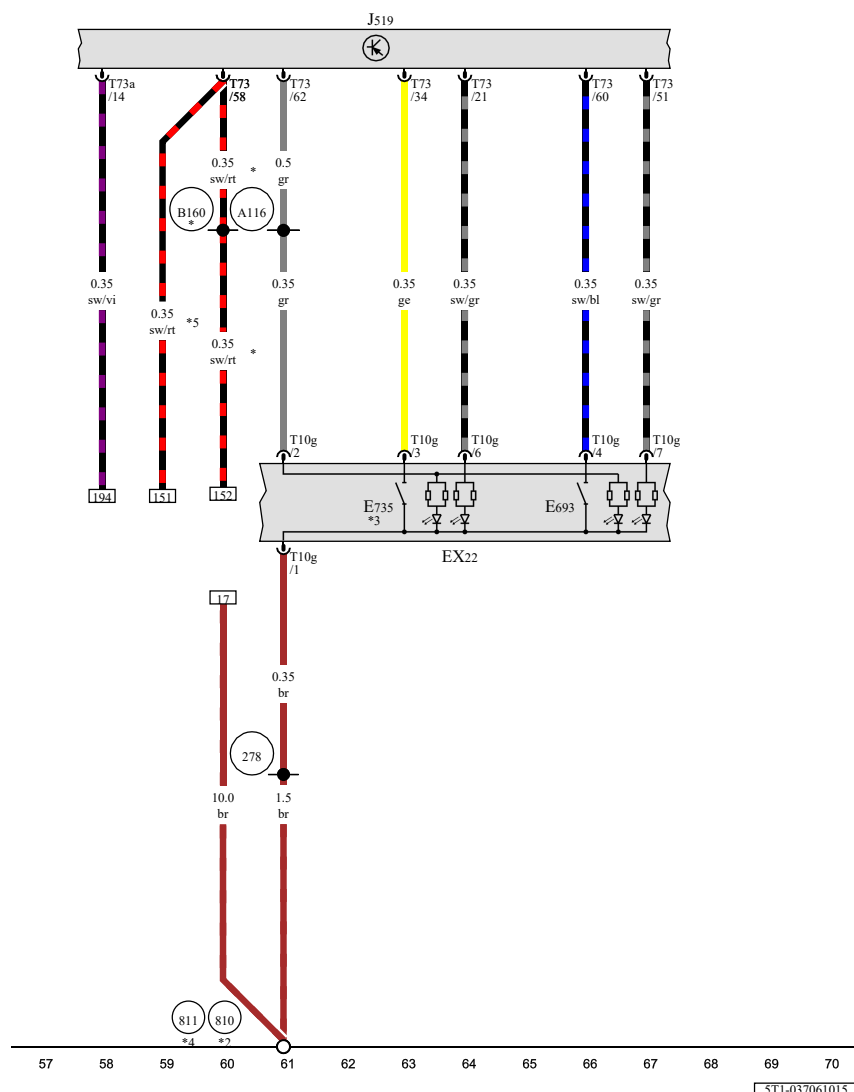


Low heat output relay, Relay for reducing agent metering system, Fuse holder B, Fuse holder C




- J359 - Low heat output relay 
- J963 - Relay for reducing agent metering system 
- SB - Fuse holder B 
- SB24 - Fuse 24 on fuse holder B 
- SC - Fuse holder C 
- SC1 - Fuse 1 on fuse holder C 
- SC20 - Fuse 20 on fuse holder C 
- SC49 - Fuse 49 on fuse holder C 
- 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 = purple
vi = purple
ge = yellow
or = orange
rs = pink

No. 37 / 6



EX22 - Centre switch module in dash panel

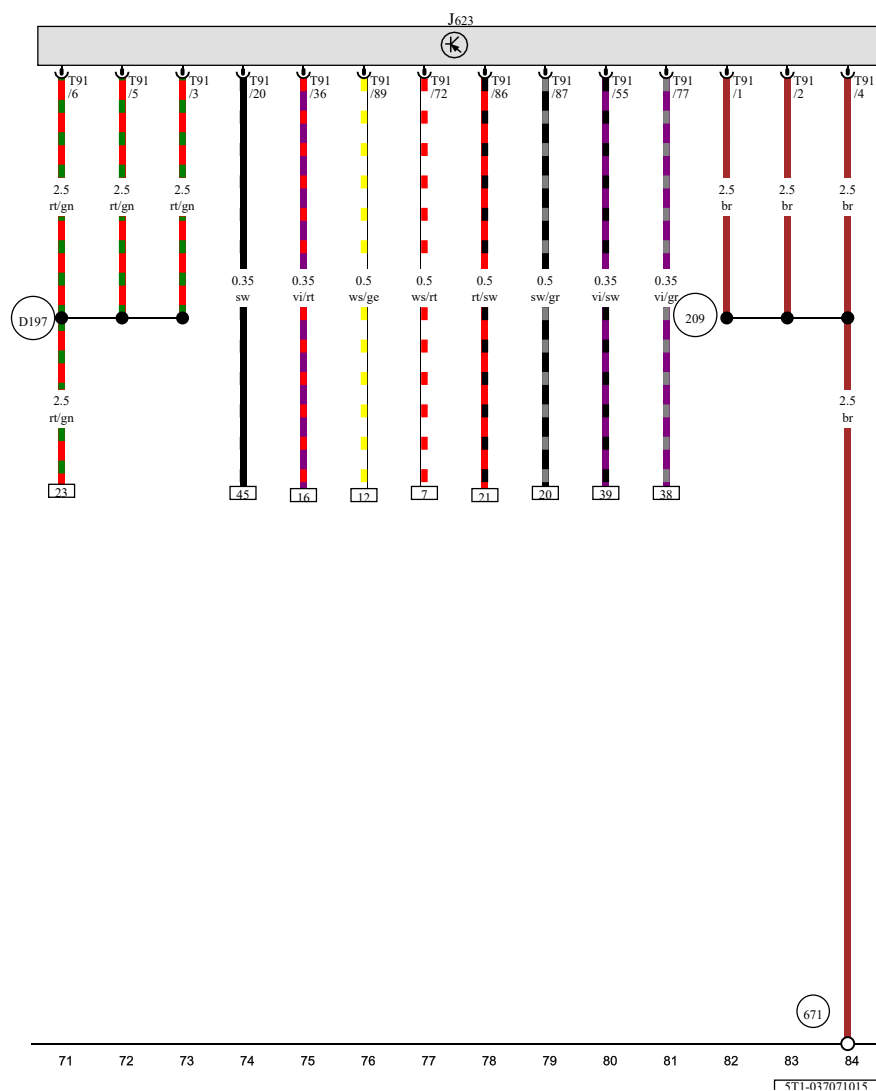
- E693 - Start/Stop operation button
- E735 - Driving mode selection button
- J519 - Onboard supply control unit 
- T10g - 10-pin connector, black
- T73 - 73-pin connector, black
- T73a - 73-pin connector, black
- 278 - Earth connection 4, in interior wiring harness
- 810 - Earth point on central tube for dash panel, centre left 
- 811 - Earth point on central tube for dash panel, centre right 
- A116 - Connection 2 (58d), in dash panel wiring harness
- B160 - Connection (brake system monitor), in interior wiring harness
- * - Only models with trailer socket
- *2 - Only left-hand drive models
- *3 - According to equipment
- *4 - Only right-hand drive models
- *5 - Only models with no trailer socket

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

Touran

Current Flow Diagram

No. 37 / 7



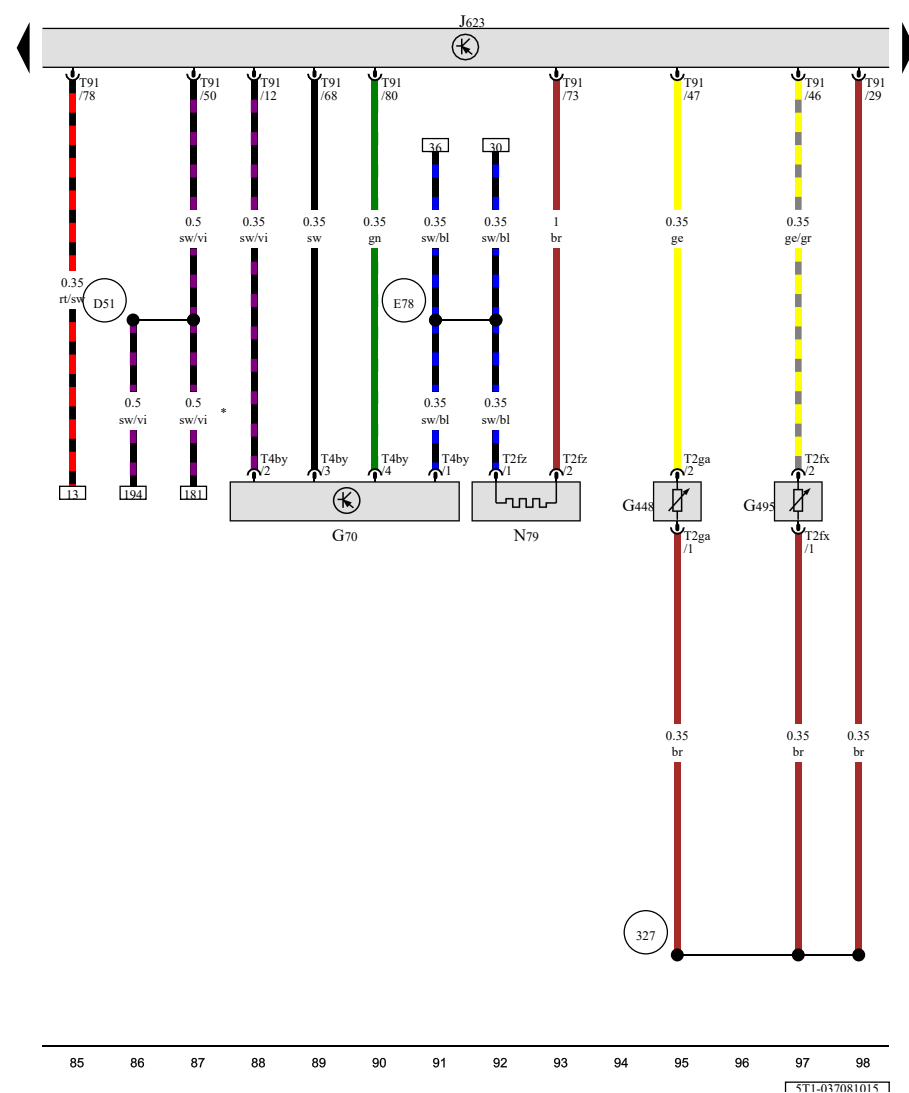
Engine control unit

- J623 - Engine control unit
- T91 - 91-pin connector, black
- 209 - Earth connection 6, in engine compartment wiring harness
- 671 - Earth point 1, on front of left longitudinal member
- D197 - Connection 5 (87a) in engine compartment wiring harness


Touran

Current Flow Diagram

No. 37 / 8



Air mass meter, Exhaust gas temperature sender 2, Exhaust gas temperature sender 3, Engine control unit, Heater element for crankcase breather

- G70 - Air mass meter
- G448 - Exhaust gas temperature sender 2
- G495 - Exhaust gas temperature sender 3
- J623 - Engine control unit 
- N79 - Heater element for crankcase breather
- T2fx - 2-pin connector, brown
- T2fz - 2-pin connector, black
- T2ga - 2-pin connector, black
- T4by - 4-pin connector, black
- T91 - 91-pin connector, black
- 327 - Earth connection (sender earth), in engine compartment wiring harness
- D51 - Positive connection 1 (15), in engine compartment wiring harness
- E78 - Connection 2 (87a) in engine wiring harness
- * - Only models with dual clutch gearbox (DSG)




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

Current Flow Diagram

No. 37 / 9



**Water separator sender, Gearbox neutral position sender,
Engine control unit, Exhaust flap control unit**

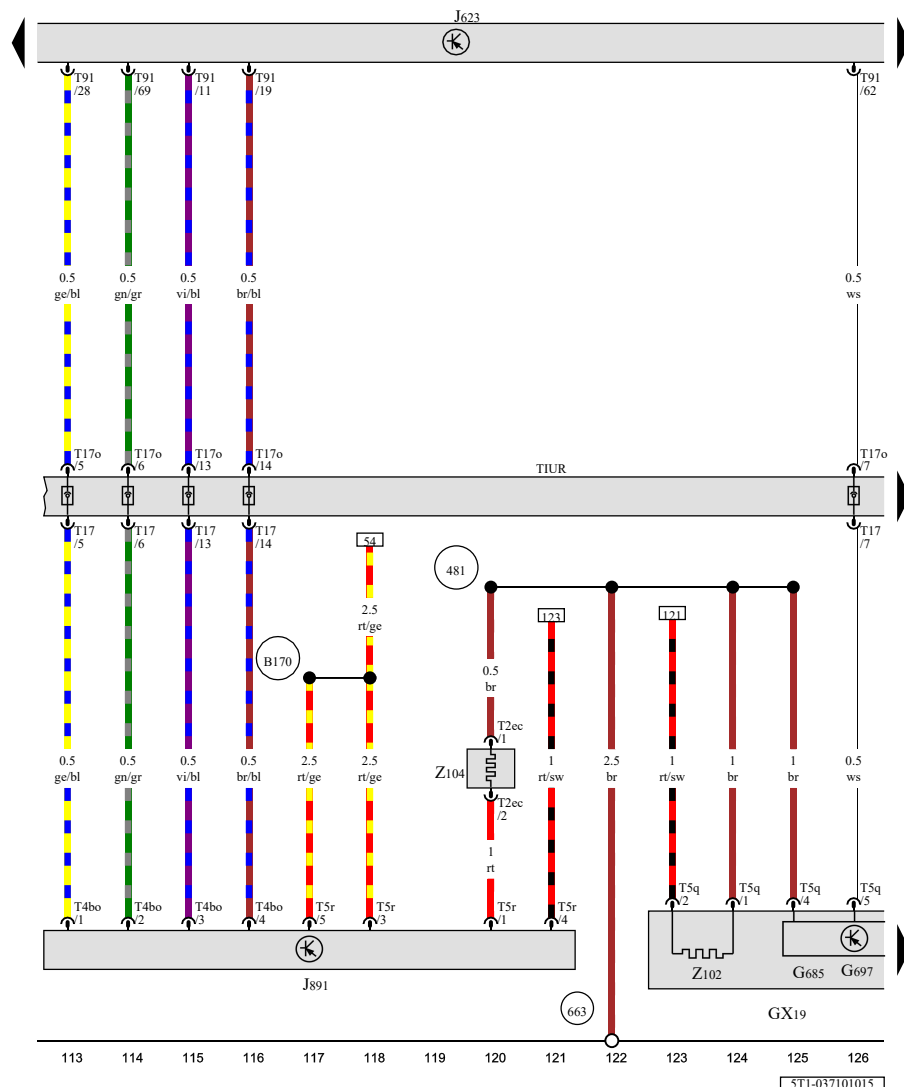
- G63 - Water separator sender
- G701 - Gearbox neutral position sender
- J623 - Engine control unit 
- J883 - Exhaust flap control unit 
- T3au - 3-pin connector, brown
- T3be - 3-pin connector, brown
- T5b - 5-pin connector, dark brown 
- T5d - 5-pin connector, black
- T5x - 5-pin connector, brown
- T91 - 91-pin connector, black
- TAGK - Coupling point for exhaust flap control unit
- 819 - Earth connection 12, in engine compartment wiring harness
- B369 - Connection 1 (5V), in main wiring harness
- D124 - Connection 22 in engine compartment wiring harness
- * - Only models with manual gearbox
- *2 - According to equipment

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

Touran

Current Flow Diagram

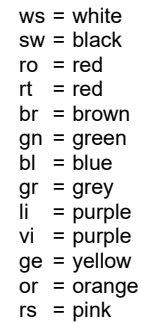
No. 37 / 10



Delivery unit for reducing agent metering system, Engine control unit, Control unit for reducing agent heater

- GX19 - Delivery unit for reducing agent metering system
- G685 - Temperature sender for reducing agent
- G697 - Reducing agent level sender
- J623 - Engine control unit
- J891 - Control unit for reducing agent heater
- T2ec - 2-pin connector, black
- T4bo - 4-pin connector, brown
- T5q - 5-pin connector, black
- T5r - 5-pin connector, black
- T17 - 17-pin connector, green
- T17o - 17-pin connector, green
- T91 - 91-pin connector, black
- TIUR - Coupling point in interior, below right
- Z102 - Heater for reducing agent tank (heater circuit 1)
- Z104 - Heater for reducing agent line (heater circuit 2)
- 481 - Earth connection 2, in fuel tank wiring harness
- 663 - Earth point, rear right side panel
- B170 - Positive connection 2 (30), in interior wiring harness

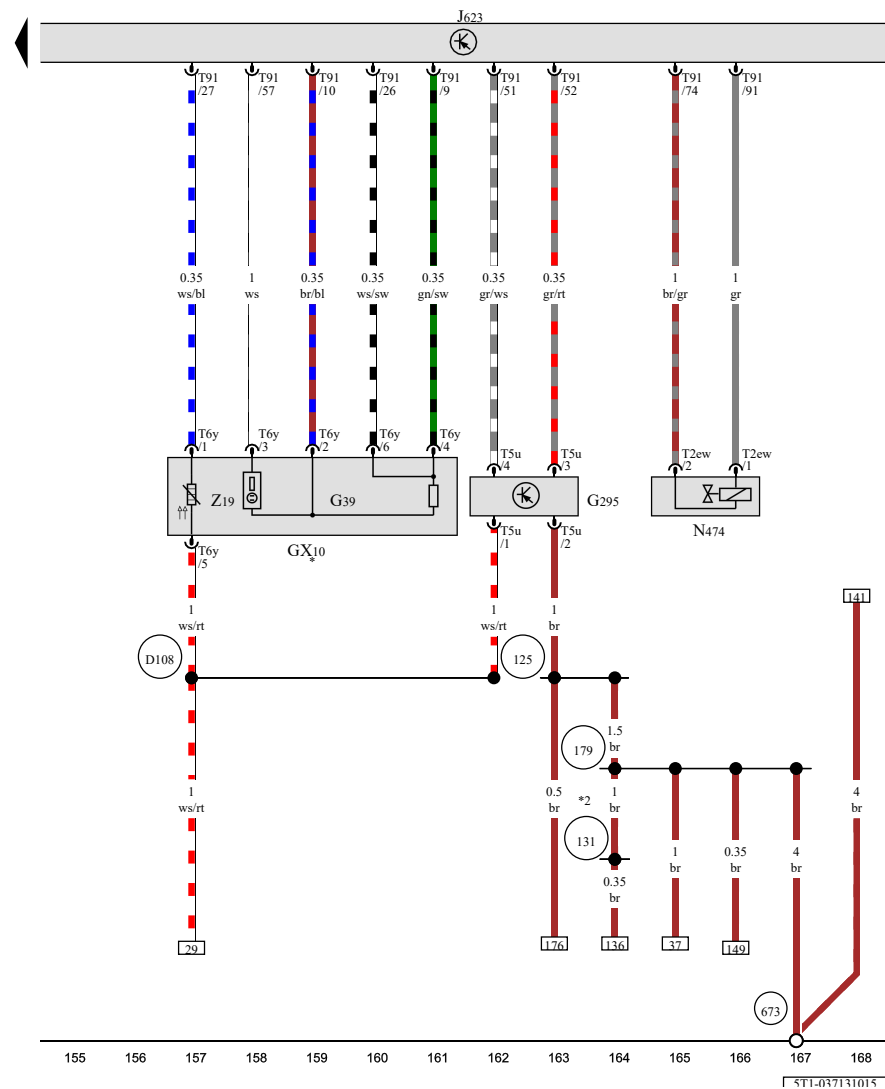
No. 37 / 12



Touran

Current Flow Diagram

No. 37 / 13



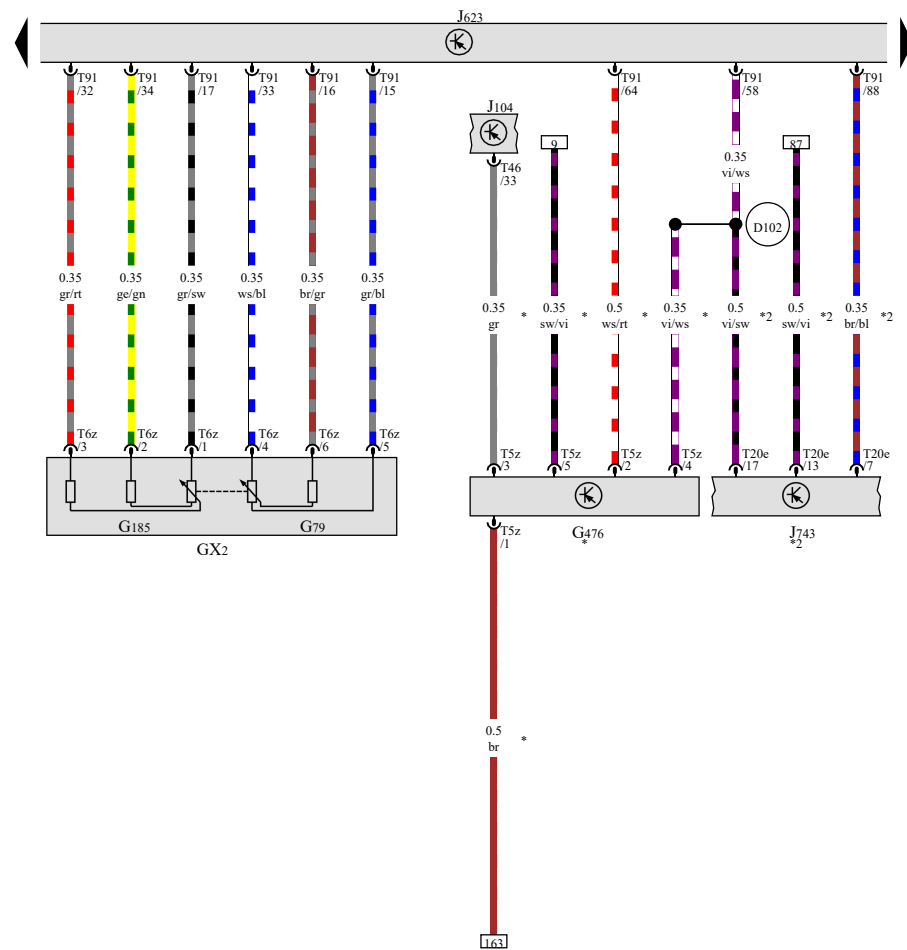
Lambda probe 1 before catalytic converter, NOx sender, Engine control unit, Injector for reducing agent

- GX10 - Lambda probe 1 before catalytic converter
- G39 - Lambda probe
- G295 - NOx sender
- J623 - Engine control unit
- N474 - Injector for reducing agent
- T2ew - 2-pin connector, black
- T5u - 5-pin connector, black
- T6y - 6-pin connector, black
- T91 - 91-pin connector, black
- Z19 - Lambda probe heater
- 125 - Earth connection 3, in headlight wiring harness
- 131 - Earth connection 2, in engine compartment wiring harness
- 179 - Earth connection, in left headlight wiring harness
- 673 - Earth point 3, on front of left longitudinal member
- D108 - Connection 6 in engine compartment wiring harness
- * - Pre-wired component
- *2 - Only models with manual gearbox

Touran

Current Flow Diagram

No. 37 / 14



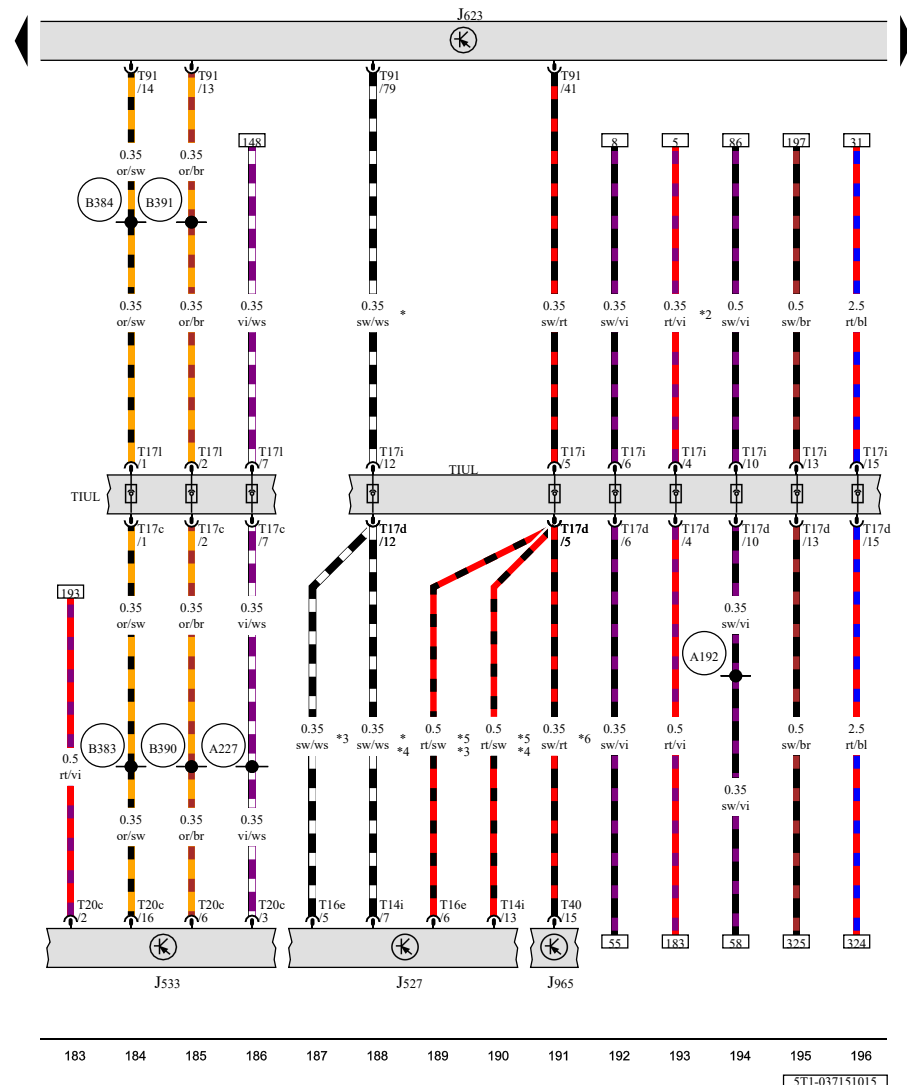
Accelerator pedal module, Clutch position sender, ABS control unit, Engine control unit, Mechatronic unit for dual clutch gearbox

- GX2 - Accelerator pedal module
- G79 - Accelerator position sender
- G185 - Accelerator position sender 2
- G476 - Clutch position sender
- J104 - ABS control unit
- J623 - Engine control unit
- J743 - Mechatronic unit for dual clutch gearbox
- T5z - 5-pin connector, black
- T6z - 6-pin connector, black
- T20e - 20-pin connector, black
- T46 - 46-pin connector, black
- T91 - 91-pin connector, black
- D102 - Connection 2 in engine compartment wiring harness
- * - Only models with manual gearbox
- *2 - Only models with dual clutch gearbox (DSG)

Touran

Current Flow Diagram

No. 37 / 15



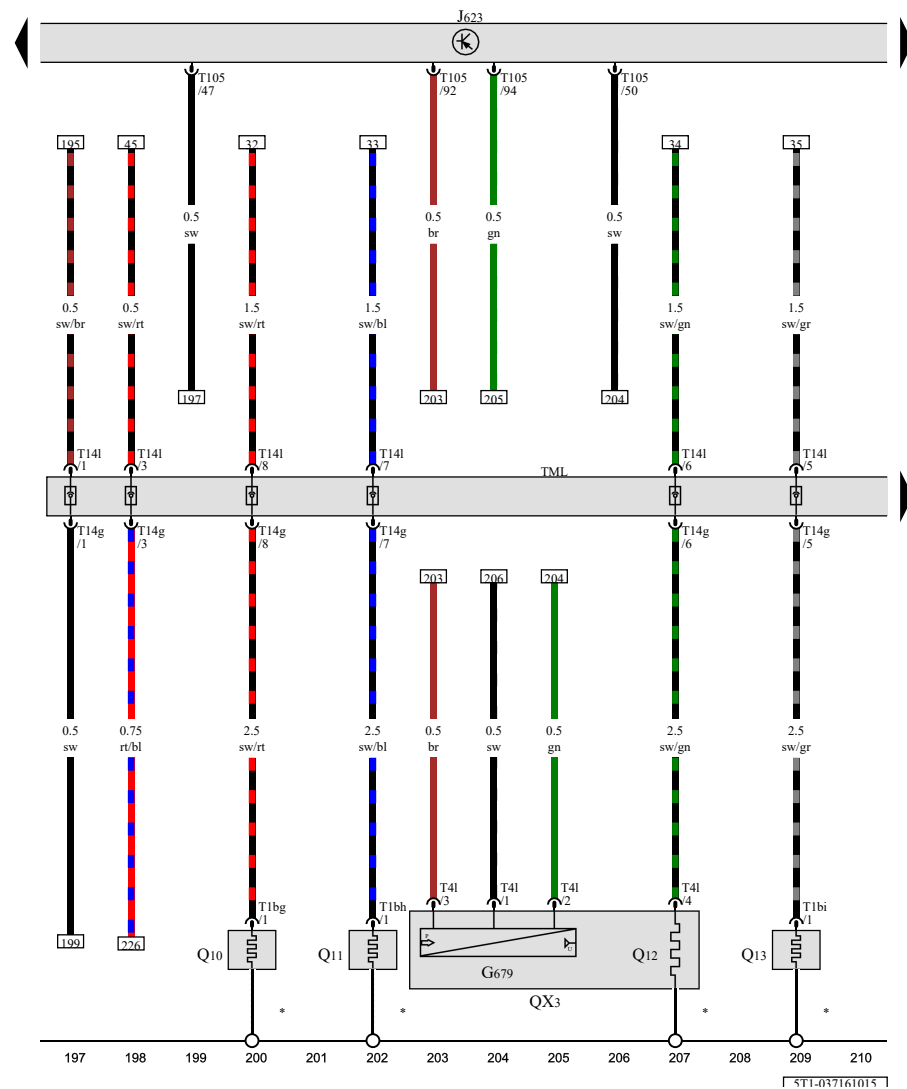
Steering column electronics control unit, Data bus diagnostic interface, Engine control unit, Interface for entry and start system

- J527 - Steering column electronics control unit
- J533 - Data bus diagnostic interface
- J623 - Engine control unit
- J965 - Interface for entry and start system
- T14i - 14-pin connector, black
- T16e - 16-pin connector, black
- T17c - 17-pin connector, brown
- T17d - 17-pin connector, blue
- T17i - 17-pin connector, blue
- T17l - 17-pin connector, brown
- T20c - 20-pin connector, red
- T40 - 40-pin connector, black
- T91 - 91-pin connector, black
- TIUL - Coupling point in interior, below left
 - Positive connection 3 (15a) in dash panel wiring harness
- A192 - Connection 2 (LIN bus) in dash panel wiring harness
- A227 - Connection 1 (powertrain CAN bus, high), in main wiring harness
- B383 - Connection 2 (powertrain CAN bus, high), in main wiring harness
- B384 - Connection 1 (powertrain CAN bus, low), in main wiring harness
- B390 - Connection 2 (powertrain CAN bus, low), in main wiring harness
- B391 - Connection 1 (powertrain CAN bus, low), in main wiring harness
- * - Only models with cruise control system (CCS)
- *2 - According to equipment
- *3 - Only models with no heated steering wheel
- *4 - Only models with heated steering wheel
- *5 - Only models with no entry and start authorisation
- *6 - Only models with entry and start authorisation

Touran

Current Flow Diagram

No. 37 / 16



Cylinder 3 combustion chamber pressure sender, Engine control unit, Glow plug 3, Glow plug 1, Glow plug 2, Glow plug 4

G679 - Cylinder 3 combustion chamber pressure sender

J623 - Engine control unit

QX3 - Glow plug 3

Q10 - Glow plug 1

Q11 - Glow plug 2

Q12 - Glow plug 3

Q13 - Glow plug 4

T1bg - Single connector, black

T1bh - Single connector, black

T1bi - Single connector, black

T4l - 4-pin connector, black

T14g - 14-pin connector, grey

T14l - 14-pin connector, grey

T105 - 105-pin connector, black

TML - Coupling point in engine compartment, left

* - Earth supply via housing

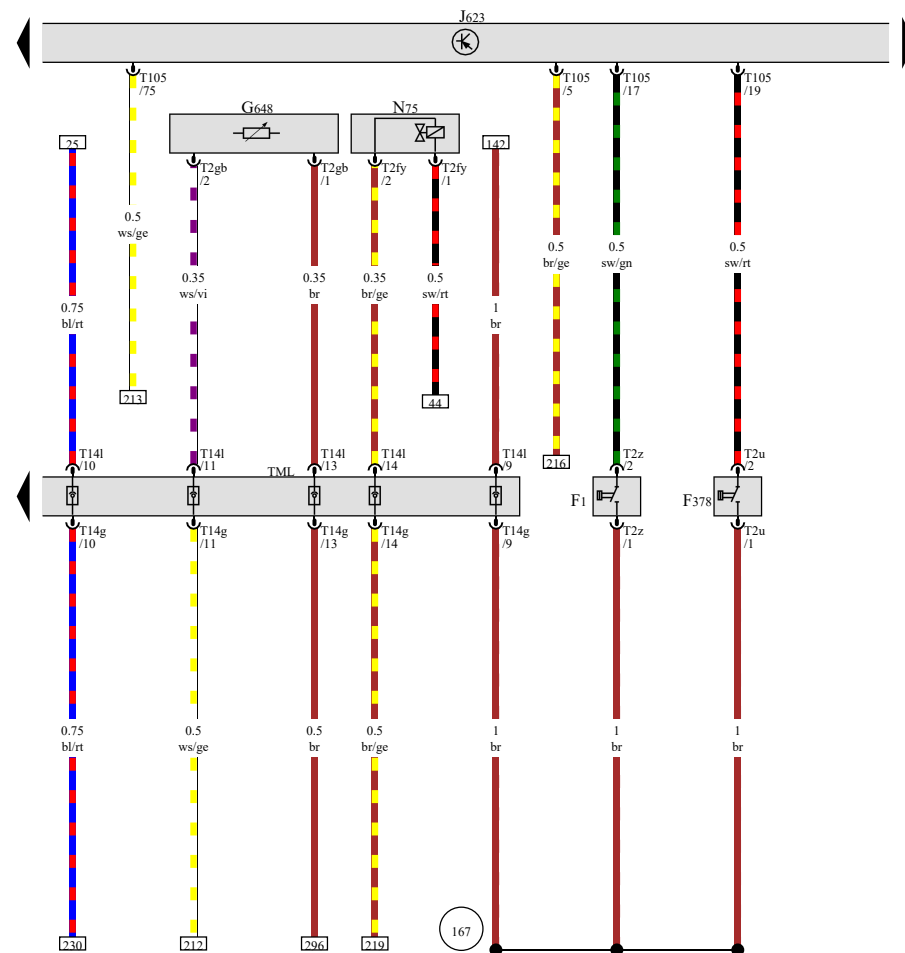
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

[5T1-037161015]

Touran



Current Flow Diagram

No. 37 / 17



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 pressure switch for reduced oil pressure, Exhaust gas temperature sender 4, Engine control unit, Charge pressure control solenoid valve

- F1 - Oil pressure switch
- F378 - Oil pressure switch for reduced oil pressure
- G648 - Exhaust gas temperature sender 4
- J623 - Engine control unit 
- N75 - Charge pressure control solenoid valve
- T2fy - 2-pin connector, black
- T2gb - 2-pin connector, colourless
- T2u - 2-pin connector, black
- T2z - 2-pin connector, red
- T14g - 14-pin connector, grey
- T14l - 14-pin connector, grey 
- T105 - 105-pin connector, black
- TML - Coupling point in engine compartment, left
- 167 - Earth connection 4, in engine compartment wiring harness

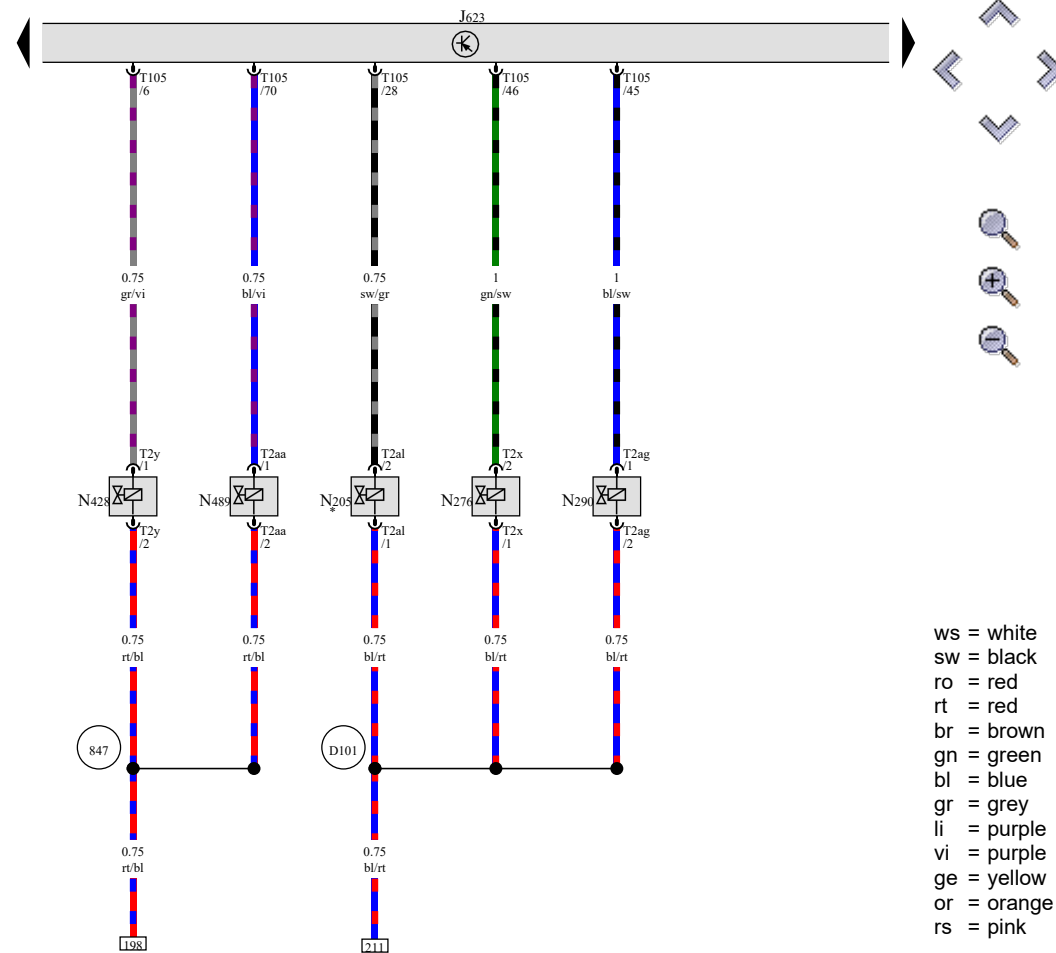
211 212 213 214 215 216 217 218 219 220 221 222 223 224

[5T1-037171015]

Touran

Current Flow Diagram

No. 37 / 18



Engine control unit, Camshaft control valve 1, Fuel pressure regulating valve, Fuel metering valve, Valve for oil pressure control, Coolant valve for cylinder head

J623 - Engine control unit

N205 - Camshaft control valve 1

N276 - Fuel pressure regulating valve

N290 - Fuel metering valve

N428 - Valve for oil pressure control

N489 - Coolant valve for cylinder head

T2aa - 2-pin connector, brown

T2ag - 2-pin connector, black

T2al - 2-pin connector, yellow

T2x - 2-pin connector, black

T2y - 2-pin connector, black

T105 - 105-pin connector, black

847 - Earth point 10, engine prewiring harness

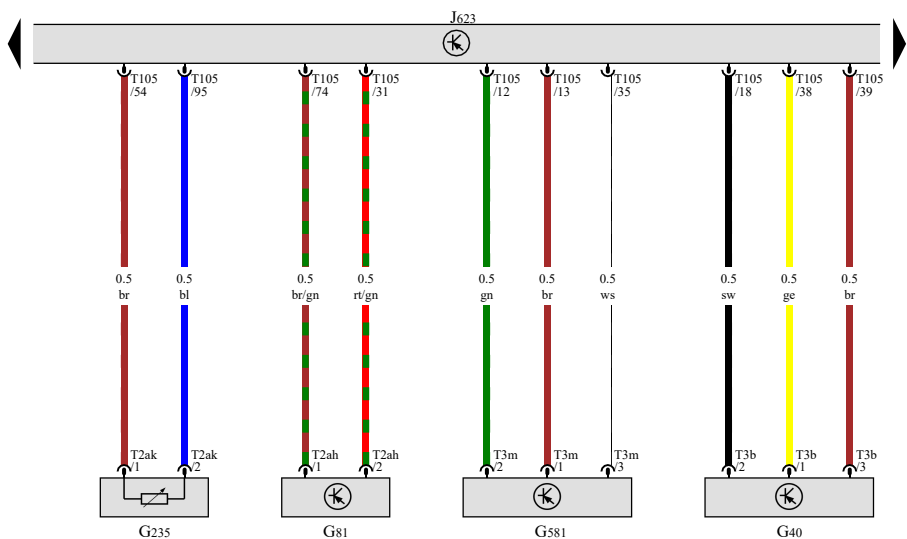
D101 - Connection 1 in engine compartment wiring harness

* - According to equipment

Touran

Current Flow Diagram

No. 37 / 19



Hall sender, Fuel temperature sender, Exhaust gas temperature sender 1, Position sender for charge pressure positioner, Engine control unit

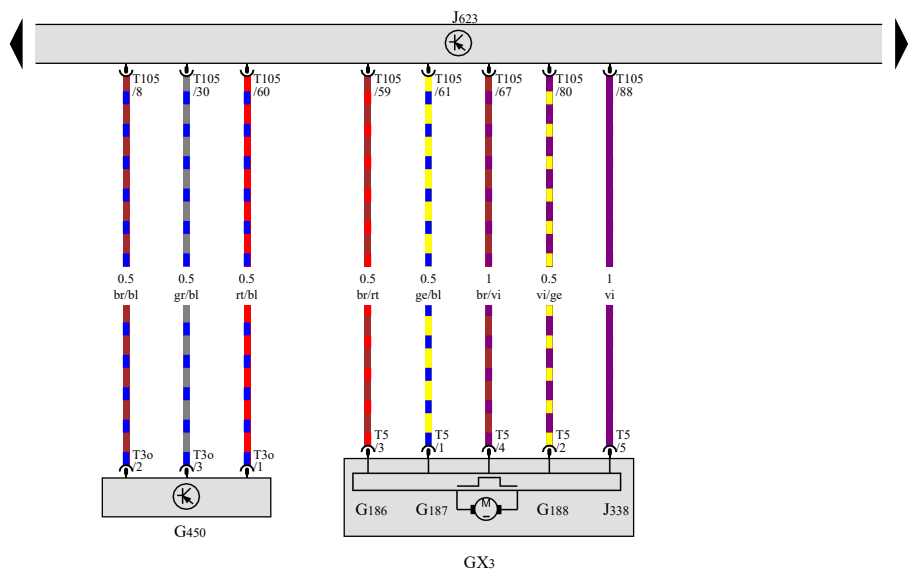
- G40 - Hall sender
- G81 - Fuel temperature sender
- G235 - Exhaust gas temperature sender 1
- G581 - Position sender for charge pressure positioner
- J623 - Engine control unit
- T2ah - 2-pin connector, yellow
- T2ak - 2-pin connector, black
- T3b - 3-pin connector, black
- T3m - 3-pin connector, brown
- T105 - 105-pin connector, black

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

Touran

Current Flow Diagram

No. 37 / 20



Throttle valve module, Exhaust gas pressure sensor 1, Engine control unit

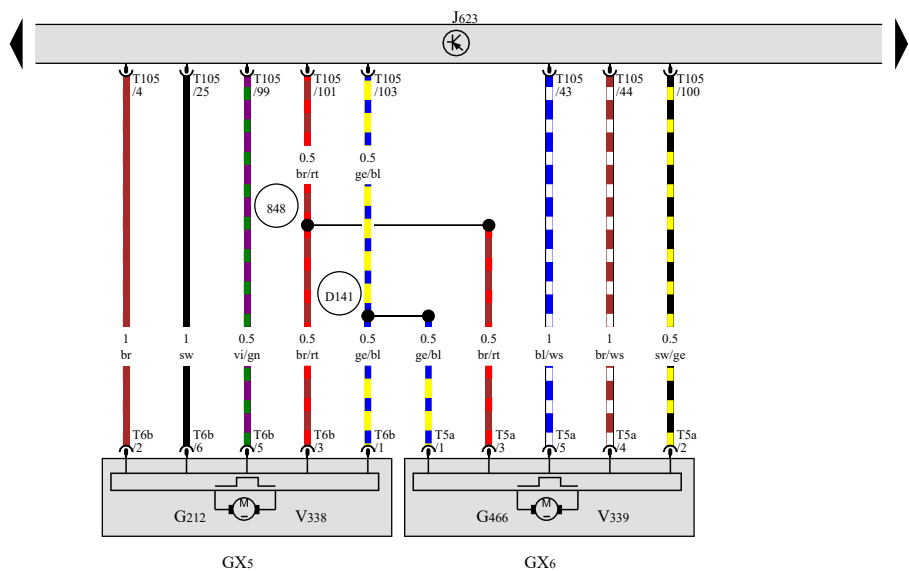
- GX3 - Throttle valve module
- G186 - Throttle valve drive for electric throttle
- G187 - Throttle valve drive angle sender 1 for electric throttle
- G188 - Throttle valve drive angle sender 2 for electric throttle
- G450 - Exhaust gas pressure sensor 1
- J338 - Throttle valve module
- J623 - Engine control unit
- T3o - 3-pin connector, black
- T5 - 5-pin connector, black
- T105 - 105-pin connector, black

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

Touran

Current Flow Diagram

No. 37 / 21



Exhaust gas recirculation valve 1, Exhaust gas recirculation valve 2, Engine control unit

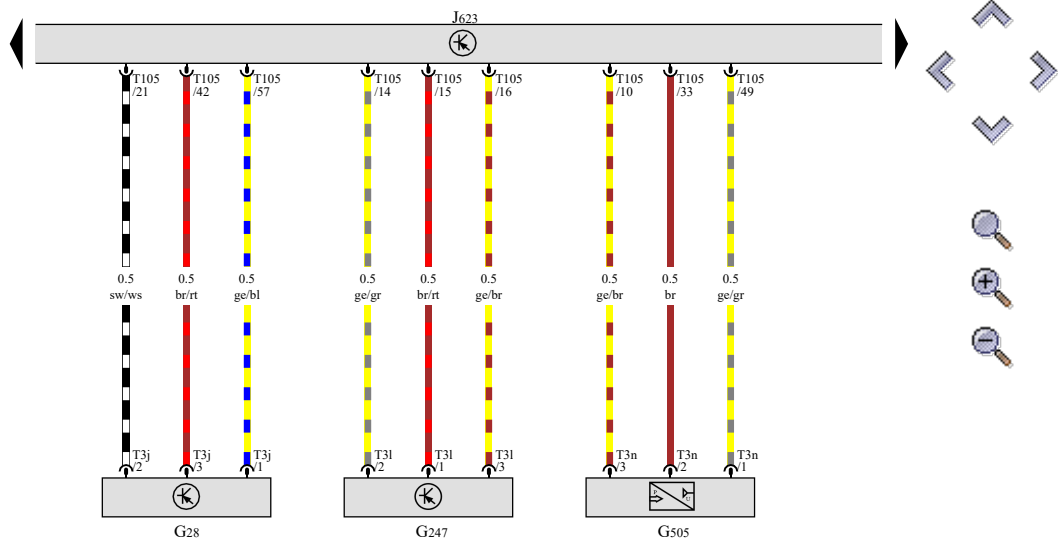
- GX5 - Exhaust gas recirculation valve 1
- GX6 - Exhaust gas recirculation valve 2
- G212 - Exhaust gas recirculation potentiometer
- G466 - Exhaust gas recirculation potentiometer 2
- J623 - Engine control unit
- T5a - 5-pin connector, black
- T6b - 6-pin connector, grey
- T105 - 105-pin connector, black
- V338 - Exhaust gas recirculation control motor
- V339 - Exhaust gas recirculation control motor 2
- 848 - Earth point 11, engine prewiring harness
- D141 - Connection (5V) in engine prewiring harness

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

Touran

Current Flow Diagram

No. 37 / 22



Engine speed sender, Fuel pressure sender, Pressure differential sender, Engine control unit

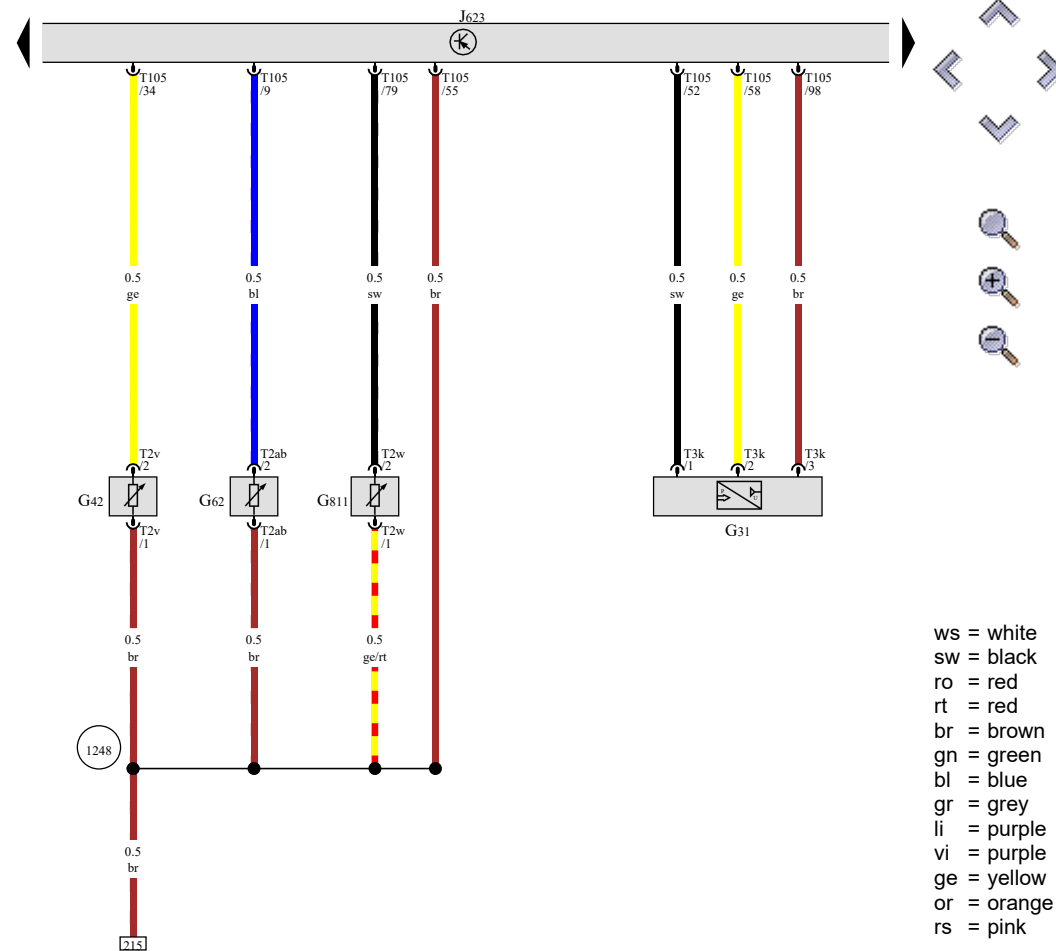
- G28 - Engine speed sender
- G247 - Fuel pressure sender
- G505 - Pressure differential sender
- J623 - Engine control unit
- T3j - 3-pin connector, black
- T3l - 3-pin connector, black
- T3n - 3-pin connector, black
- T105 - 105-pin connector, black

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

Touran

Current Flow Diagram

No. 37 / 23



Charge pressure sender, Intake air temperature sender, Coolant temperature sender, Charge air temperature sender after charge air cooler, Engine control unit

- G31 - Charge pressure sender
- G42 - Intake air temperature sender
- G62 - Coolant temperature sender
- G811 - Charge air temperature sender after charge air cooler
- J623 - Engine control unit
- T2ab - 2-pin connector, black
- T2v - 2-pin connector, black
- T2w - 2-pin connector, black
- T3k - 3-pin connector, black
- T105 - 105-pin connector, black
- 1248 - Earth point 11, engine prewiring harness

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

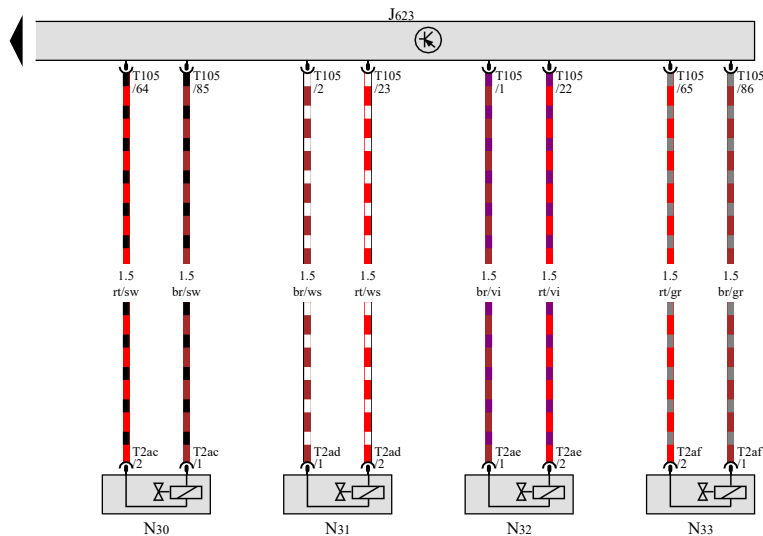
295 296 297 298 299 300 301 302 303 304 305 306 307 308

511-037731015



Touran

Current Flow Diagram

No. 37 / 24



Engine control unit, Injector, cylinder 1, Injector, cylinder 2, Injector, cylinder 3, Injector, cylinder 4

- J623 - Engine control unit 
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- T2ac - 2-pin connector, black
- T2ad - 2-pin connector, black
- T2ae - 2-pin connector, black 
- T2af - 2-pin connector, black
- T105 - 105-pin connector, black

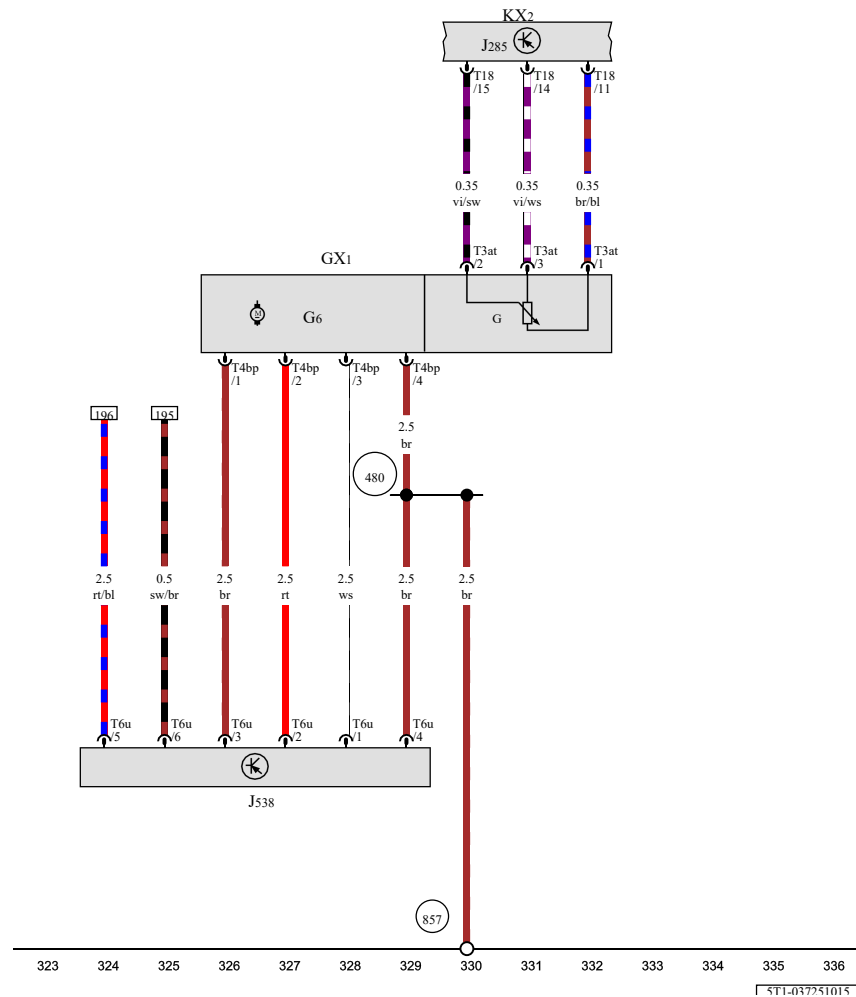


ws = white
sw = black
ro = red
rt = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
vi = purple
ge = yellow
or = orange
rs = pink

Touran

Current Flow Diagram

No. 37 / 25

**Fuel delivery unit, Fuel pump control unit, Dash panel insert**

- G - Fuel gauge sender
- GX1 - Fuel delivery unit
- G6 - Fuel system pressurisation pump
- J285 - Control unit in dash panel insert
- J538 - Fuel pump control unit
- KX2 - Dash panel insert
- T3at - 3-pin connector, black
- T4bp - 4-pin connector, black
- T6u - 6-pin connector, black
- T18 - 18-pin connector, black
- 480 - Earth connection, in fuel tank wiring harness
- 857 - Earth point on mounting for seat cross member (front right)