Current Flow Diagram

No. 3/1 Edition 02.2006

Audi Q7 4.2 I Fuel injection engine (257 kW - 8 cylinder), engine code BAR

from model year 2007

Notes:

For information concerning

- Position of relays and fuses
- Multi-pin connections
- Control units and relays
- Earth connections
- → List of Fitting Locations!

For information concerning

- Fault Finding Programs
- → guided fault finding

10 ∎ 6,0 Q7a SB SD7 SD1 SD2 SD3 SD4 SD5 150A 50A 60A 125A ST1 ₫в+ o¦1a 2a d 3a A5 d 5a 16,0 50,0 50,0 sw 0,5 ro/sw 10,0 sw 5 248 1/30 B272 1 А **J**329 2/87 4/85 50,0 sw 6,0 ro 6,0 sw 0,5 sw/bl T20e/13 **J**518 T46a ☑ T46a /19H /19L **J**234 ws = white **J**234 (B273) 2 26 T75/27 T75/28 sw = black0,5 bl ro = red0,35 0,5 ro/sw 0,5 0,5 ge 0,35 or/br 0,5 ro 2,5 50,0 sw br = brownor/ar qn = qreenbl = blue14 🖞 T10d/8 gr = grey € K li N253 ge = yellow **J**644 or = orange 50,0 sw rs = pink sw 21 24 1 2 3 4 5 10 11 12 6 7 8 9 13 14 4L0-003020206

Current Flow Diagram

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No. 3/2

Battery, terminal 15 voltage supply relay, energy management control unit, battery isolation igniter, fuses А - Battery

- Airbag control unit J234
- Terminal 15 voltage supply relay J329
- J518 - Entry and start authorisation control unit
- J644 - Energy management control unit
- N253 Battery isolation igniter
- SB8 - Fuse 8 on fuse holder B
- SB9 - Fuse 9 on fuse holder B - Fuse 1 on fuse holder D
- SD1 SD2 Fuse 2 on fuse holder D
- SD3 - Fuse 3 on fuse holder D
- SD4 - Fuse 4 on fuse holder D
- SD5 - Fuse 5 on fuse holder D
- SD7 - Fuse 7 on fuse holder D
- T10d 10-pin connector, blue, coupling station on electronics box, plenum chamber
- T20e 20-pin connector, black, on entry and start authorisation control unit
- 46-pin connector, black, CAN separating connector left T46a
- T75 - 75-pin connector, grey, on airbag control unit (USA: white)
- Positive connection (30), in main wiring harness B272
- Positive connection (15), in main wiring harness B273
 - CAN bus (data wire)

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- Relay and fuse carrier under driver seat
- screw connection (31) battery wire before driver seat

Current Flow Diagram

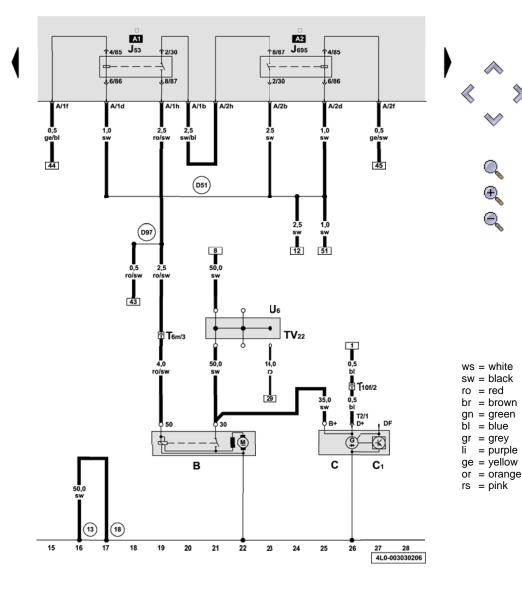
No. 3/3

Starter, alternator, starter motor relay, starter motor relay 2, slave start socket В

- Starter

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- Alternator
- C1 - Voltage regulator J53
 - Starter motor relay
- J695 - Starter motor relay 2 T2
 - 2-pin connector, black, on alternator
- 6-pin connector, white, coupling station on electronics box, T6m plenum chamber
- T10f 10-pin connector, red, coupling station on electronics box, plenum chamber
- TV22 Terminal 30 wiring junction 2
- U6 - Slave start socket
- Earth point, on right in engine compartment 13
- Earth point on engine block 18
- Positive connection 1 (15), in engine compartment wiring D51 harness
- Connection (50), in engine compartment wiring harness D97
 - Relay and fuse carrier, electronics box plenum chamber



Current Flow Diagram

No. 3/4

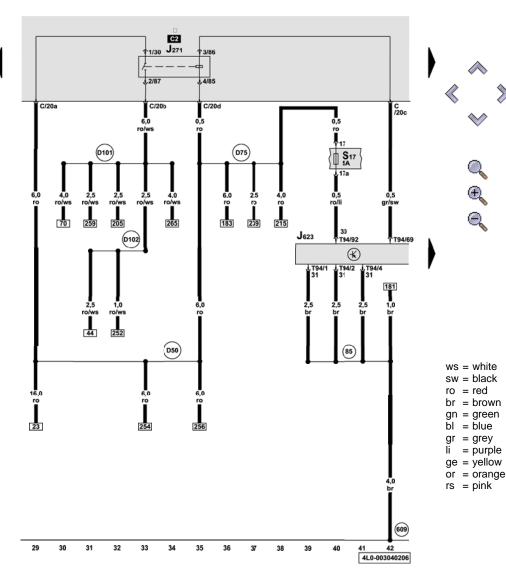
Engine control unit, Motronic current supply relay

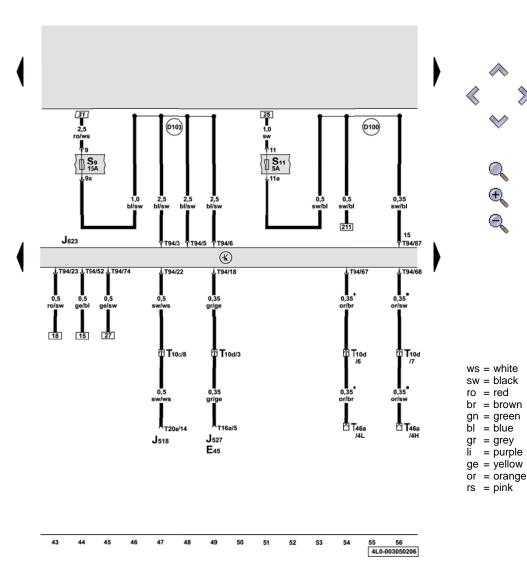
- J271 Motronic current supply relay
- J623 - Engine control unit S17

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- Fuses in relay plate fuse holder
- T94 - 94-pin connector, black, on engine control unit
 - Earth connection 1, in engine compartment wiring harness
- Earth point, on right in plenum chamber 609
- Positive connection (30), in engine compartment wiring D50 harness
- Positive connection 2 (30), in engine compartment wiring D75 harness
- Connection 1, in engine compartment wiring harness D101
- Connection 2, in engine compartment wiring harness D102
 - Relay and fuse carrier, electronics box plenum chamber





Current Flow Diagram

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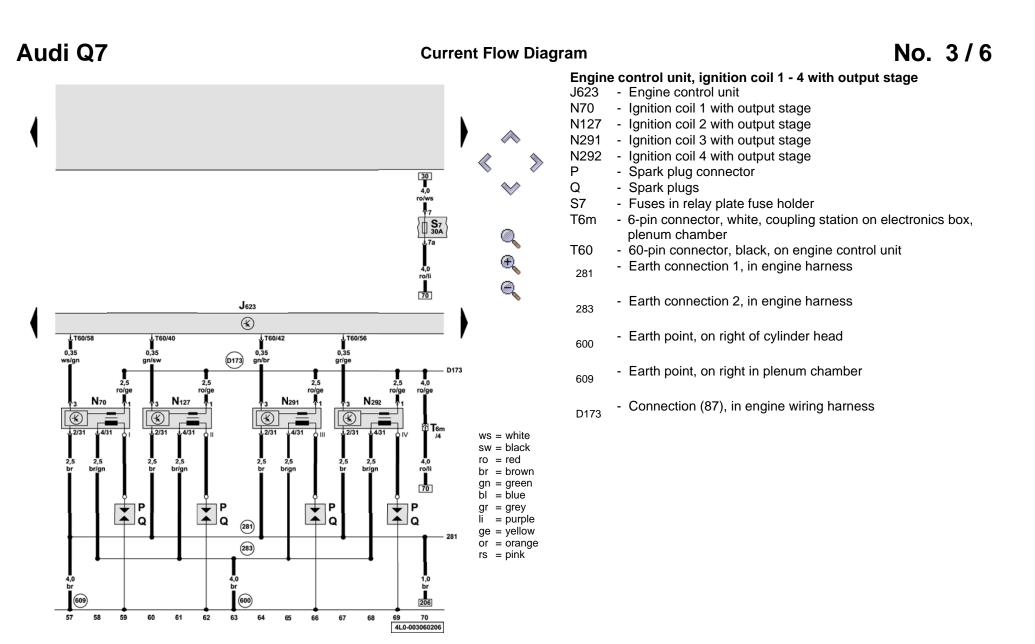
No. 3/5

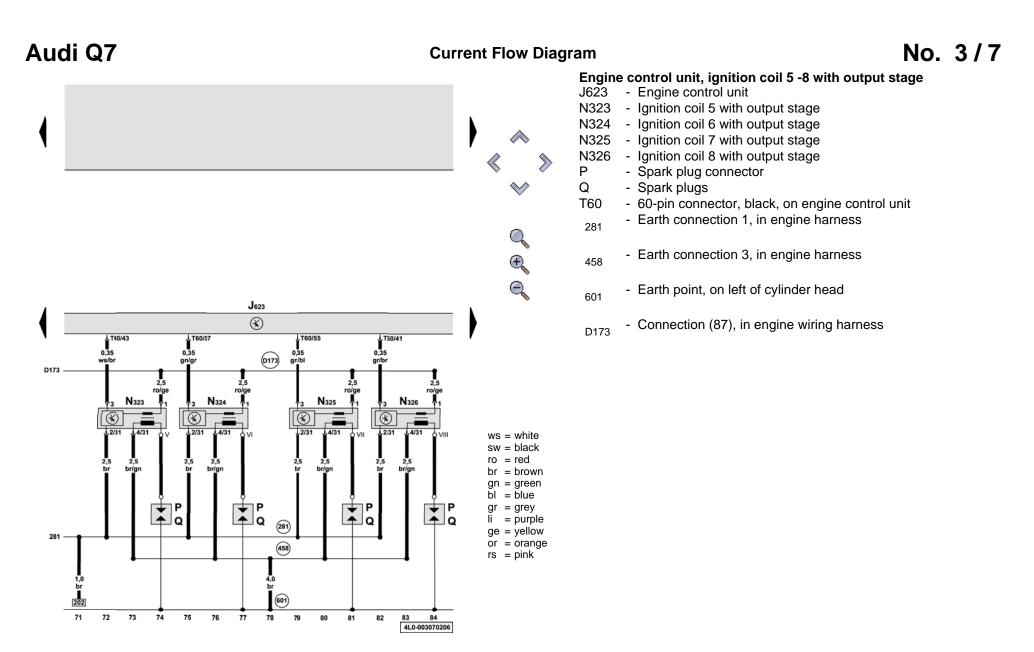
Engine control unit

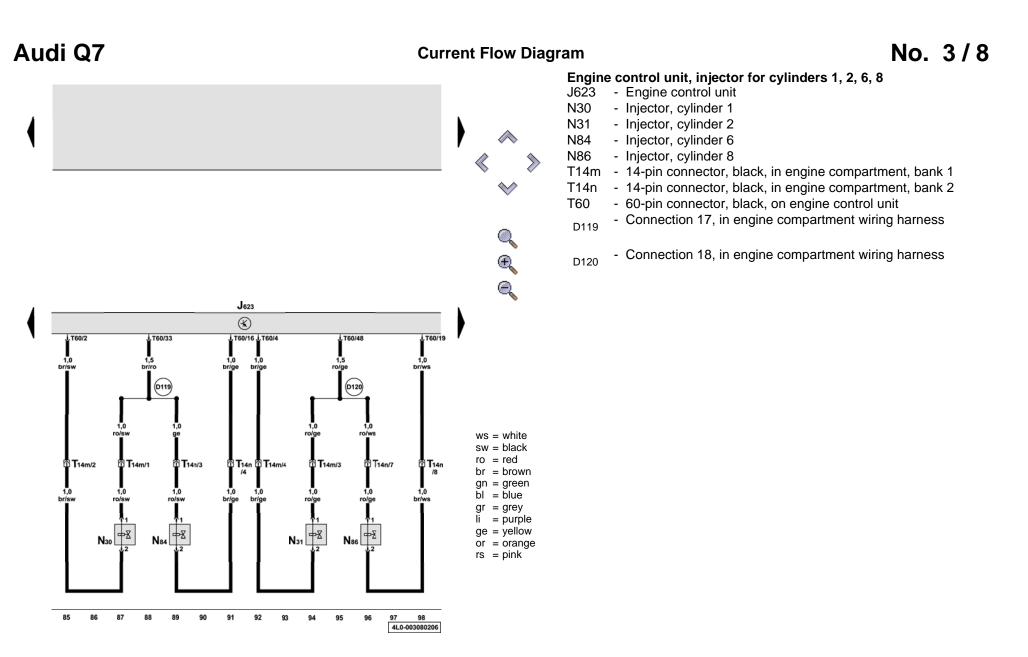
- Cruise control system switch E45
- Entry and start authorisation control unit J518
- J527 - Steering column electronics control unit
- J623 - Engine control unit S9
 - Fuses in relay plate fuse holder
- S11 - Fuses in relay plate fuse holder
- T10c 10-pin connector, pink, coupling station on electronics box, plenum chamber
- T10d 10-pin connector, blue, coupling station on electronics box, plenum chamber
- T16a 16-pin connector, on steering column electronics control unit
- T20e 20-pin connector, black, on entry and start authorisation control unit
- T46a 46-pin connector, black, CAN separating connector left
- T94 - 94-pin connector, black, on engine control unit

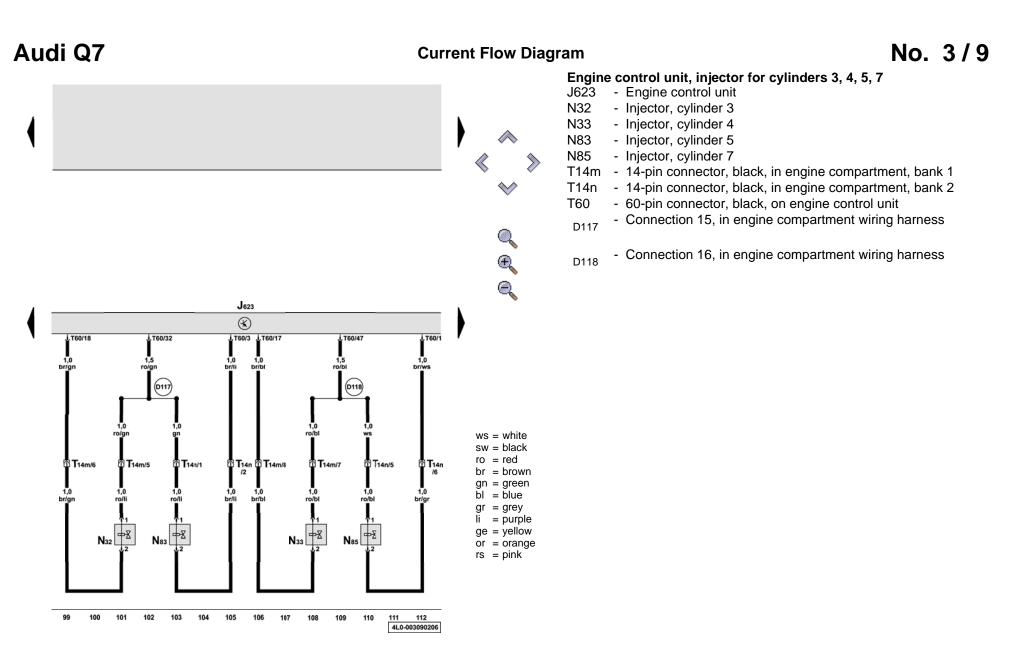
- Positive connection 2 (15), in engine compartment wiring D100 harness

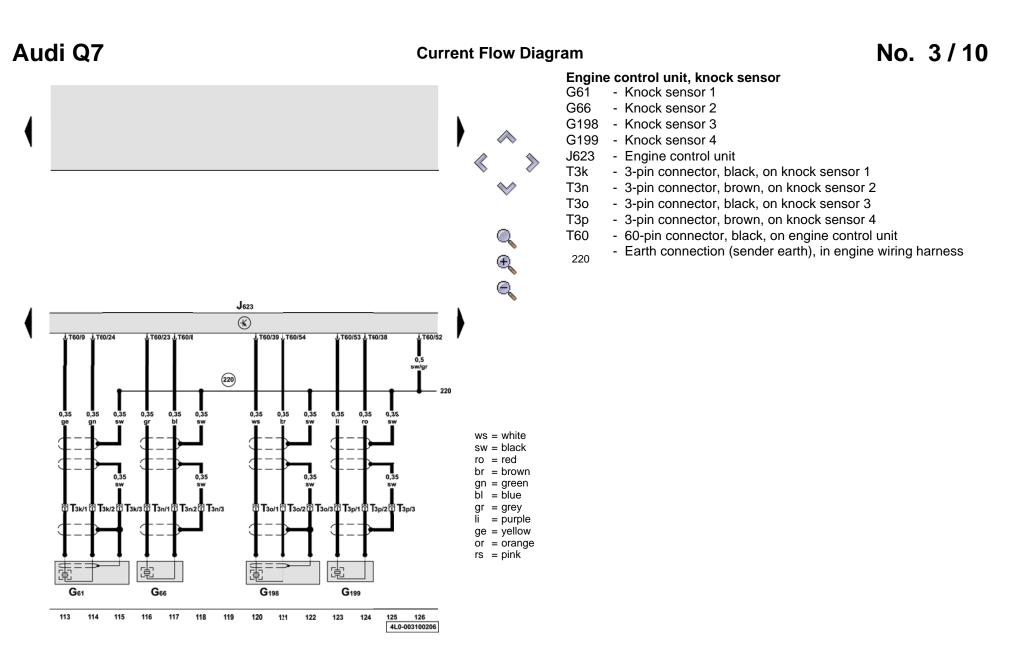
- Connection 3, in engine compartment wiring harness D103
- CAN bus (data wire) •

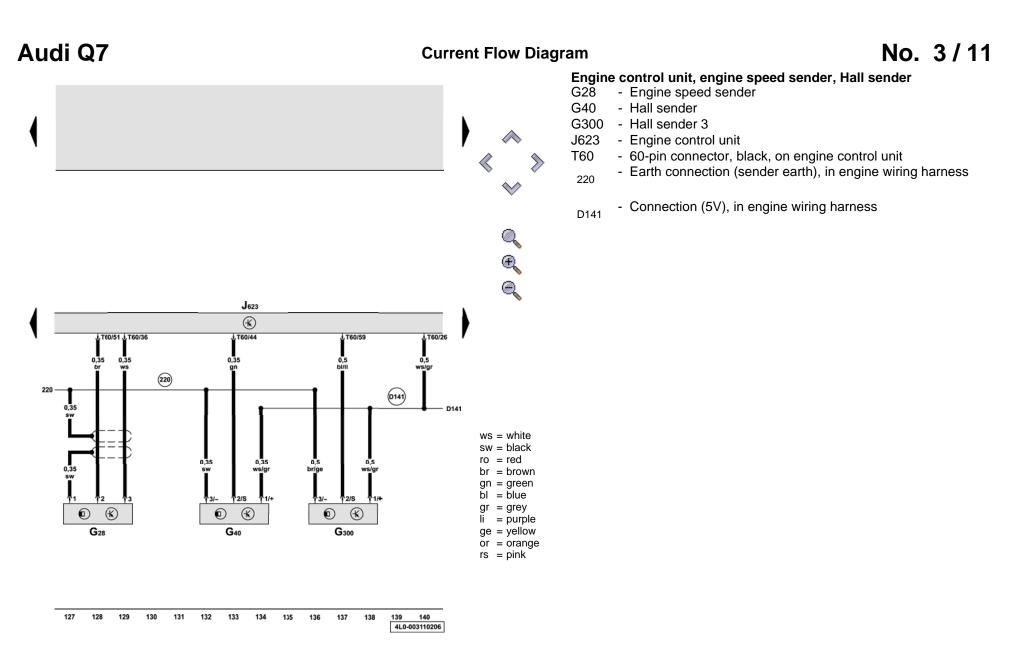


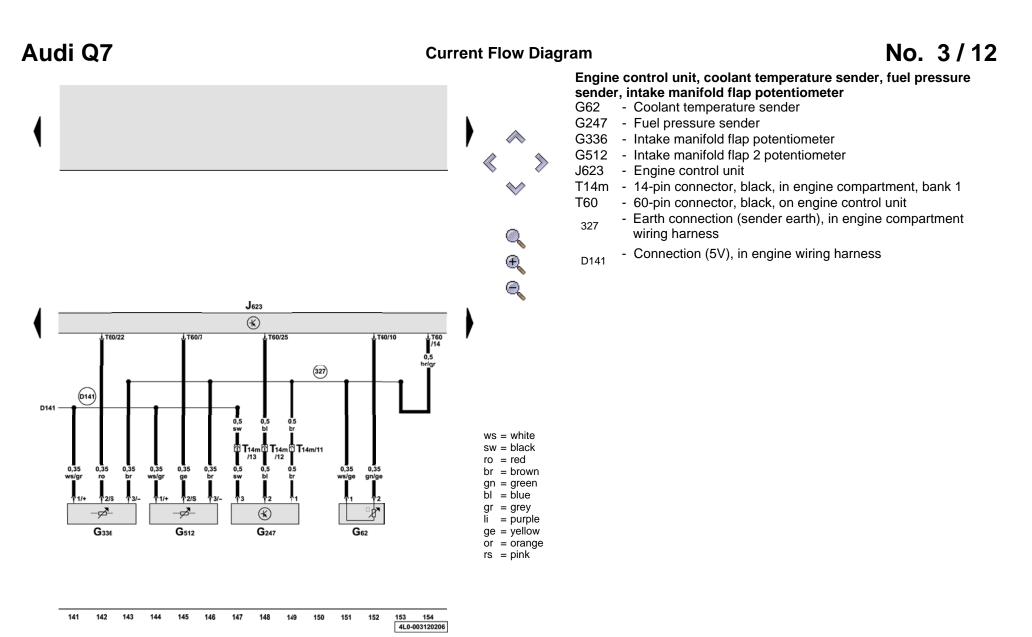












D195 D195 0,5 ge/gr 0.5 \sim 0,5 ge/gr ge (D112) G70 G42 G246 155 K ¢. K Q Ð 0.35 0,5 1.0 0.5 0,5 1,0 0,5 0.5 0.5 ge/g ro/gn ro/gn Ы Q 179 178 **J**623 T54/19 T94/13 T94/85 T94/64 T94/75 **(k**) Т94/20 ,T94/34 ,T94/42 T94/35 T94/15 0,5 br/g D114 D113 155 D113 0,5 ge 0,5 0,35 0,35 0,35 gr/ro 0,35 0,35 ro/g br/gr gr/ws br ws = white sw = black 🖞 T10m 🛱 T10m 🖞 T10m/3 1 **T**6m 🖞 T6m/5 🖞 T10m 🖞 T10m/7 /5 /8 ro = red0,5 ge/gr br = brownqn = qreen0174 bl = bluear = arevli = purple 0,35 br 0,35 0,35 ge/gr 0,35 0,5 0,35 gn 0,35 0,35 0.5 0.5 0.35 ge = yellowro/gr br/gr ge/gr ge/gr ws/gr br/ge ws/ro or = orange rs = pink 1/-₽_{1/+} 12/S 1/+ 12/S 12/S **T**3/+ 0 K 0 K K G163 G301 G410 G83 155 156 157 158 159 160 161 162 163 164 165 166 167 168 4L0-003130206

Current Flow Diagram

No. 3/13

Engine control unit, air mass meter, radiator outlet coolant temperature sender, Hall sender, fuel pressure sender for low pressure, intake air temperature sender

- G42 Intake air temperature sender
- G70 Air mass meter
- G83 Radiator outlet coolant temperature sender
- G163 Hall sender 2
- G246 Air mass meter 2
- G301 Hall sender 4
- G410 Fuel pressure sender for low pressure
- J623 Engine control unit
- T6m 6-pin connector, white, coupling station on electronics box, plenum chamber
- T10m 10-pin connector, black, coupling station on electronics box, plenum chamber
- T94 94-pin connector, black, on engine control unit
- D112 Connection 10, in engine compartment wiring harness
- D113 Connection 11, in engine compartment wiring harness
- D114 Connection 12, in engine compartment wiring harness
- D174 Earth connection 2 (5V), in engine wiring harness
- D195 Connection 1 (5V), in engine compartment wiring harness

Audi Q7 **Current Flow Diagram** \wedge D195 220 2,5 ro/ge 0111 L D195 0,35 ge/gr 1,0 ro/gn 1,0 ro/gn 2,5 ro/gn \sim 1,0 ro/gn 0,5 ro/gn ro/gn 13 171 161 167 180 183 190 Q **S**13 Ð ,13a Q **J**623 € T60/35 T94/53 .T94/16 T60/60 T94/9 J255 ,116d ,10 0,35 br/bl 180 2,5 0,35 ws/gr 0,35 gn/gr 1,5 br/bl 1,5 br/sw 0,5 li/ge D113 ro/gn D113 🖞 T10m/1 **T**10m/2 🖞 T10d /1 ws = white 171 sw = black 0,35 ge/gr ro = red 0,35 ws/gr 0,35 2,5 br = brown ro/gn br/bl li/ge gn = green bl = blue **G**65 ₽3 ₩ N402 ∞₹ gr = grey K K N290 N80 li = purple ,1/31 13 ge = yellow G294 or = orange 1,0 br rs = pink 1,5 1,0 1,5 0.5 rolgn bl/ge ro/gr ro/gr D116 42 209 169 170 171 172 173 174 175 176 177 178 179 180 181 182 4L0-003140206

No. 3/14

Engine control unit, high pressure sender, brake servo pressure sensor, active charcoal filter system solenoid valve 1, fuel metering valve

G65 - High pressure sender

G294 - Brake servo pressure sensor