Current Flow Diagram

No. 118/1

Edition 10.2007

1.6 I - Fuel injection engine (85 kW - FSI - 4 cylinder), engine code BLF from model year 2006

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
- $\rightarrow \text{guided fault finding}$

Audi A3 **Current Flow Diagram** SB₂ T40/39 J682 (K) 2/87 4,0 ro 50 B * 0,5 ## 0,35 # 0,35 # 0,35 0,35 ge/gr# ro/sw ro/sw sw ¥3/85 (5/D 0,5 ## 1,0 ge/gr br 4,0_{sw}## 4,0_{ro}# (B240 0,35 sw/ws**** 0,35 or/br 192 0,35 T20b /18 T20b /17 T20b/12 T20b/11 T20b/19 T20b/13 **J**527 (K) 5/10 4 5/11 4 5/12 5/2 5/5 5/6 5/8 5/9 5/3 T20b /20 ws = white sw = black ro = redbr = brown gn = green D bl = blue gr = grey = purple 198 ge = yellow or = orange rs = pink10 11 12 13 14

No. 118/2

Terminal 50 voltage supply relay, ignition/starter switch

- Starter

- Ignition/starter switch D

J519 Onboard supply control unit

J527 - Steering column electronics control unit

J682 Terminal 50 voltage supply relay

SB2 - Fuse 2 on fuse holder B

T8h - 8-pin connector, black (connector F)

T11b - 11-pin connector, black (connector A)

T12e - 12-pin connector, black (connector G)

- 20-pin connector, black (connector A) T₂₀b

T40 - 40-pin connector, black, on electronics box in

engine compartment (connector J)

- Positive connection 2 (50), in interior wiring B240

harness

- ⇒ applicable Current Flow Diagram for models with

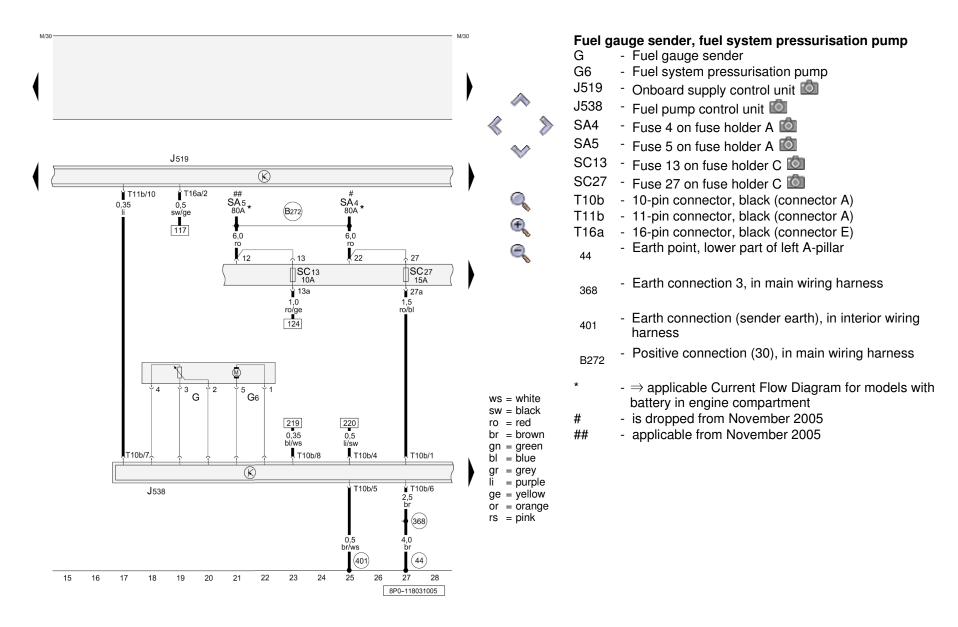
battery in engine compartment

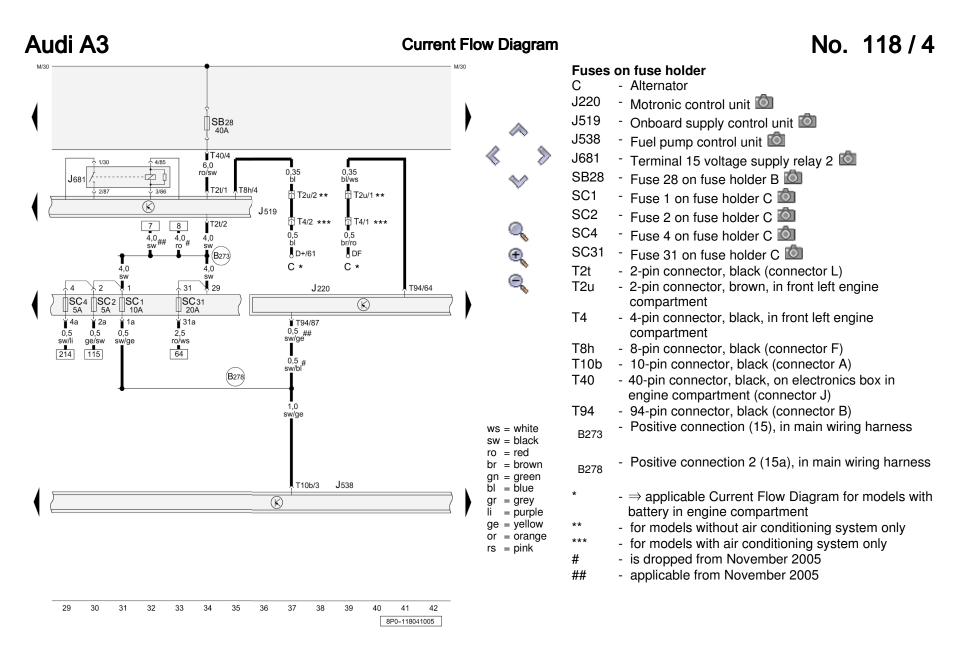
**** - for models with cruise control system only

- is dropped from November 2005

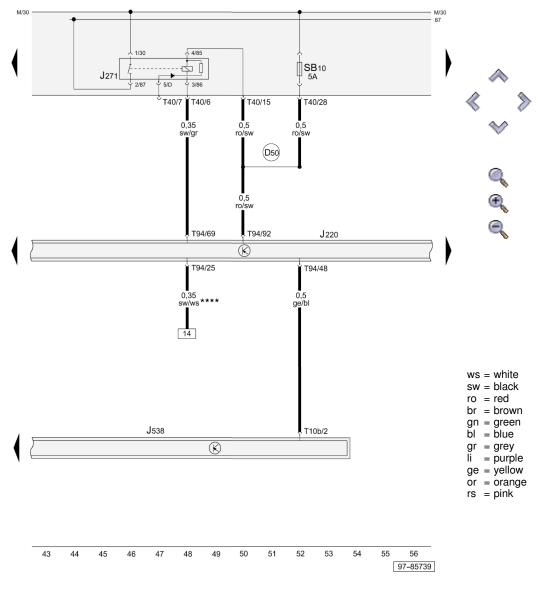
- applicable from November 2005

8P0-118021005





Audi A3 Current Flow Diagram No. 118 / 5



Motronic current supply relay

J220 - Motronic control unit

J271 - Motronic current supply relay

J538 - Fuel pump control unit

SB10 - Fuse 10 on fuse holder B

T10b - 10-pin connector, black (connector A)

T40 - 40-pin connector, black, on electronics box in

engine compartment (connector J)

T94 - 94-pin connector, black (connector B)

- Positive connection (30), in engine compartment

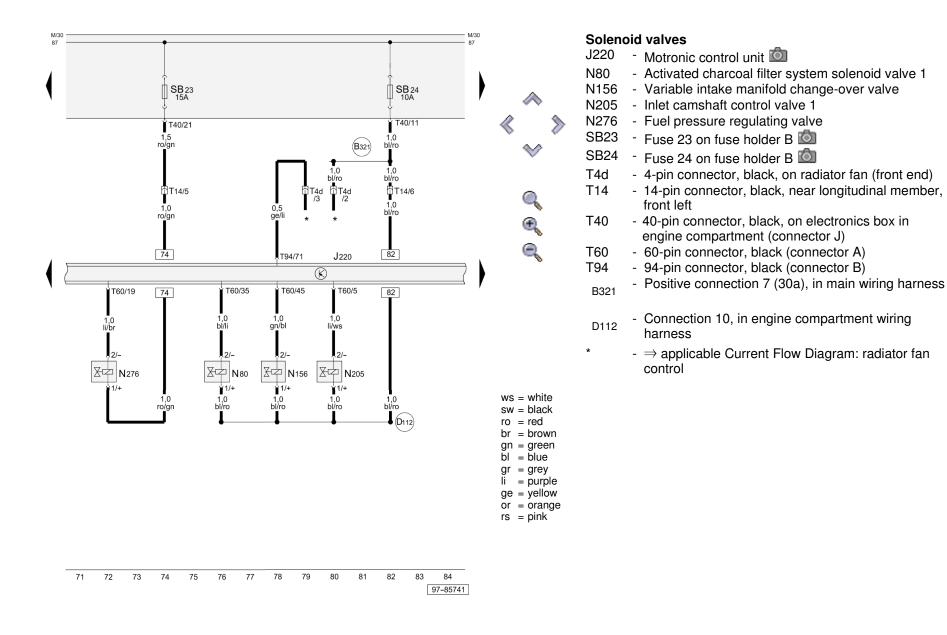
wiring harness

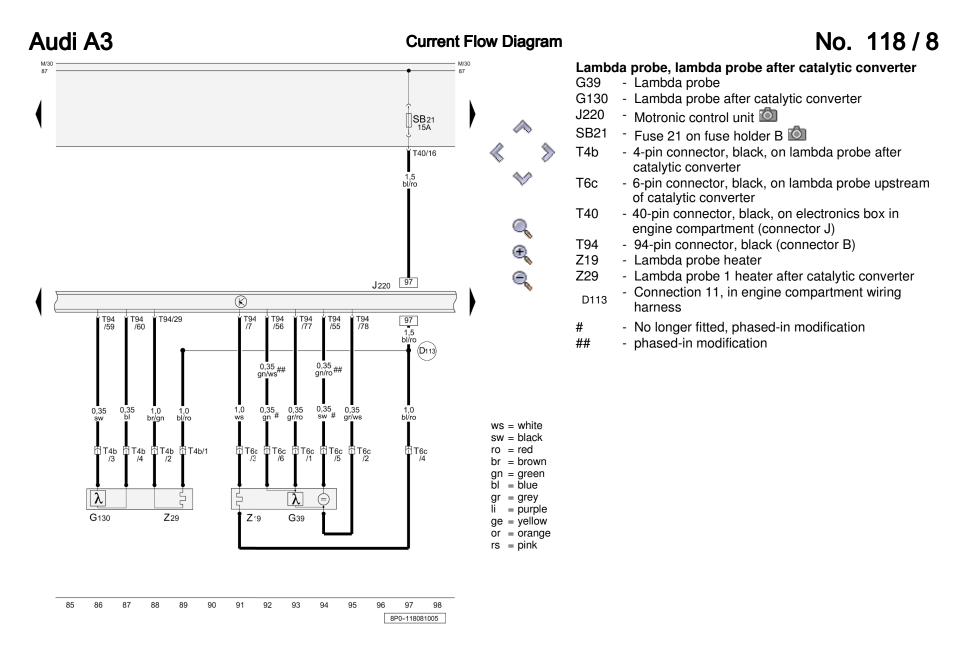
D50

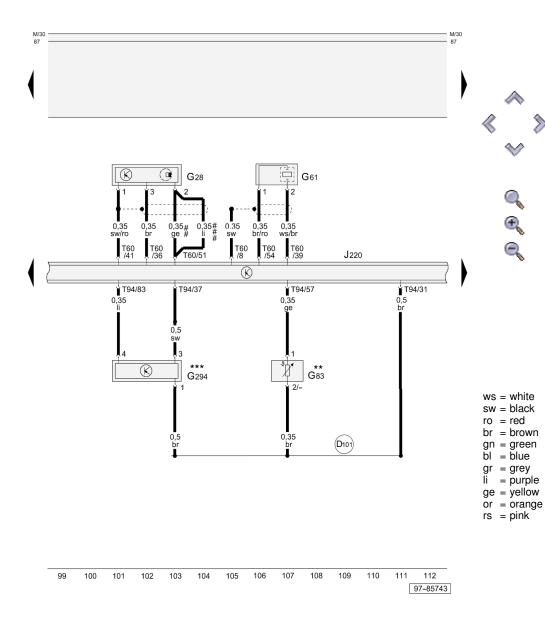
**** - for models with cruise control system only

Audi A3 No. 118/6 **Current Flow Diagram** Injectors, vacuum pump for brakes - Vacuum pump relay J57 J220 - Motronic control unit N30 - Injector, cylinder 1 SB 13 - Injector, cylinder 2 N31 N32 - Injector, cylinder 3 2,5 ro/ws T40/22 N33 - Injector, cylinder 4 SB13 - Fuse 13 on fuse holder B **—** - 40-pin connector, black, on electronics box in T40 engine compartment (connector J) **J** 57 T60 - 60-pin connector, black (connector A) - 94-pin connector, black (connector B) T94 2,5 ro/gn 0,35 gr/li - Vacuum pump for brakes - Earth connection 1, in engine compartment wiring T94 /6 T94 /3 66 T94/5 T94/49 **J**220 85 harness (K) - Earth point, on left in plenum chamber T94 /1 T94 /2 T60 /33 T60 /31 T60 /48 T60 /46 T60 /49 T60/34 607 - Positive connection 2 (30a), in engine compartment 1,5 ro/gr 1,5 ro/ws 1,5 br/ws 1,5 ro/li 1,5 br/li D104 wiring harness - for models with automatic gearbox only X 34 X X N32 N31 N33 N30 ws = white sw = black ro = redbr = brown 66 gn = green bl = blue gr = grey = purple 2,5 br 2,5 br ge = vellowor = orange rs = pink(607) 57 70 69 8P0-118061005

Audi A3 Current Flow Diagram No. 118 / 7







Radiator outlet coolant temperature sender, brake servo pressure sensor

G28 - Engine speed sender

G61 - Knock sensor 1

D101

G83 - Radiator outlet coolant temperature sender

G294 - Brake servo pressure sensor

J220 - Motronic control unit

T60 - 60-pin connector, black (connector A)

T94 - 94-pin connector, black (connector B)

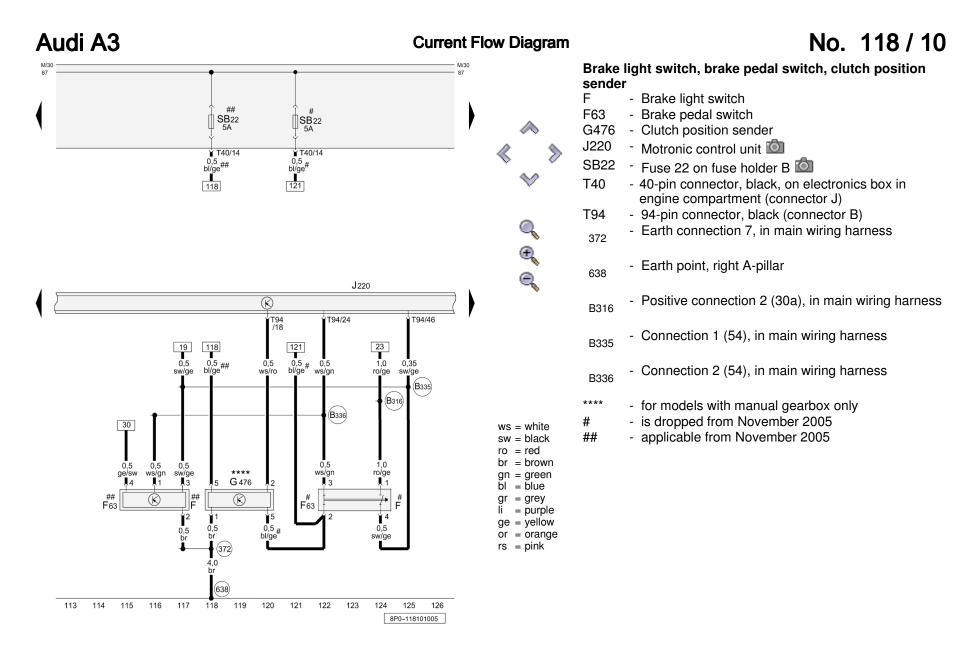
- Connection 1, in engine compartment wiring harness

** - for models with air conditioning system only

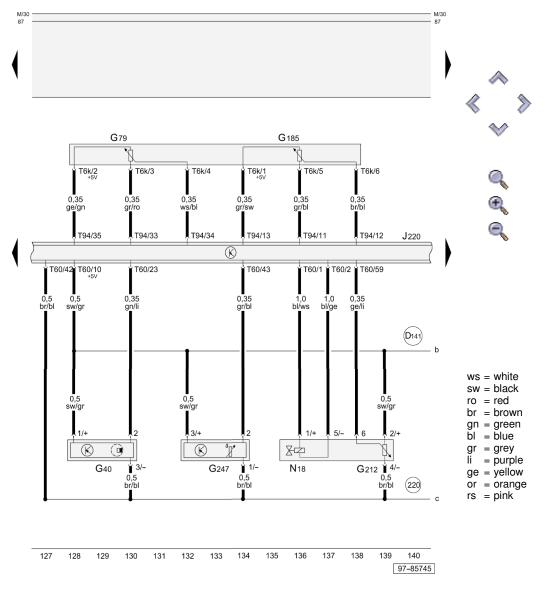
- for models with brake servo pressure sensor only

- for models with manual gearbox only

- for models with automatic gearbox only



Audi A3 Current Flow Diagram No. 118 / 11



Hall sender, accelerator position sender, fuel pressure sender

G40 - Hall sender

G79 - Accelerator position sender

G185 - Accelerator position sender 2

G212 - Exhaust gas recirculation potentiometer

G247 - Fuel pressure sender

J220 - Motronic control unit

N18 - Exhaust gas recirculation valve

T6k - 6-pin connector, black, near accelerator position

sender

T60 - 60-pin connector, black (connector A)

T94 - 94-pin connector, black (connector B)

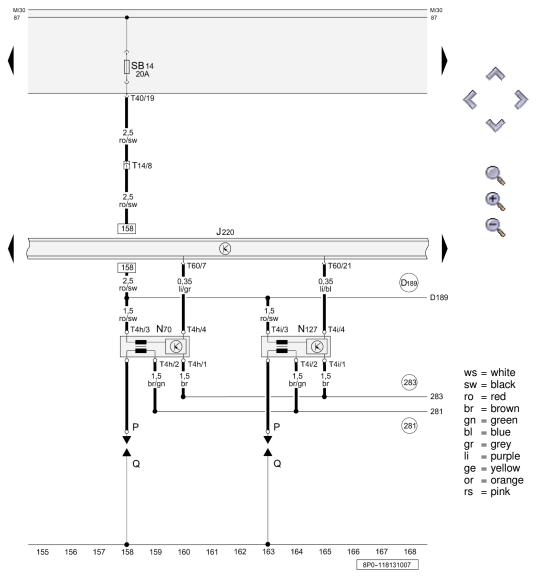
- Earth connection (sender earth), in engine wiring

harness

D141 - Connection (5V), in engine wiring harness

Audi A3 No. 118 / 12 **Current Flow Diagram** Intake air temperature sender, coolant temperature sender, intake manifold pressure sender - Intake air temperature sender G62 - Coolant temperature sender G71 - Intake manifold pressure sender G186 - Throttle valve drive (electric power control) G187 - Throttle valve drive angle sender 1 for electric throttle **J** 338 G188 - Throttle valve drive angle sender 2 for electric G 186 G187 **G** 188 throttle G299 T6d/5 T6d/3 T6d/1 T6d/4 T6d/6 - Intake air temperature sender 2 T6d/2 - Intake manifold flap potentiometer G336 0,35 0,35 0,35 li/br J220 - Motronic control unit sw/gn gn/ge J338 - Throttle valve module T60/16 T60/17 T60/26 T60/25 T60/11 T60/12 J220 - 6-pin connector, black, near throttle valve module T6d (K) T60 - 60-pin connector, black (connector A) T60/44 T60/58 T60/57 T60/27 T60/28 - Earth connection (sender earth), in engine wiring 220 harness 0,35 li/ws 0,35 gr/li 0,5 gn - Connection (5V), in engine wiring harness D141 (D141) ws = white sw = black ro = red= brown gn = green = blue 3 $\overline{\mathbb{K}}$ (K) gr = grey G62 G299 = purple G42 ¥ 1/- G71 ¥ 2/-2/-G336 ge = yellow 0,5 br/bl or = orange rs = pink 152 153 154 150 151 97-85746

Audi A3 Current Flow Diagram No. 118 / 13



Ignition coils 1 and 2 with output stage, spark plug connector, spark plugs

J220 - Motronic control unit

N70 - Ignition coil 1 with output stage

N127 - Ignition coil 2 with output stage

P - Spark plug connector

Q - Spark plugs

SB14 - Fuse 14 on fuse holder B

T4h - 4-pin connector, black, on ignition coil 1 with output

stage

T4i - 4-pin connector, black, on ignition coil 2 with output

stage

T14 - 14-pin connector, black, near longitudinal member,

front left

T40 - 40-pin connector, black, on electronics box in

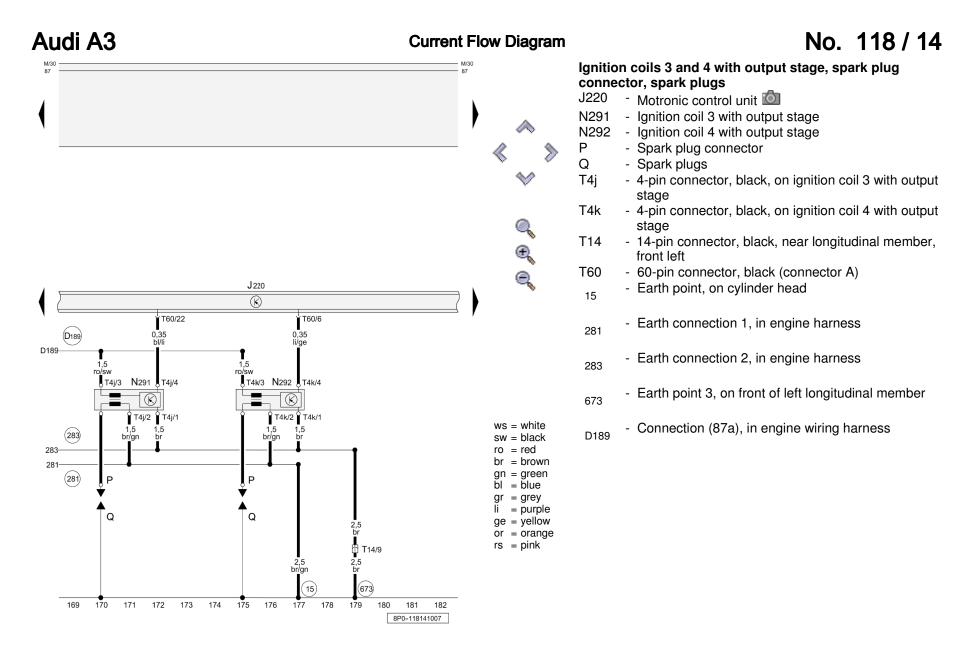
engine compartment (connector J)

T60 - 60-pin connector, black (connector A)

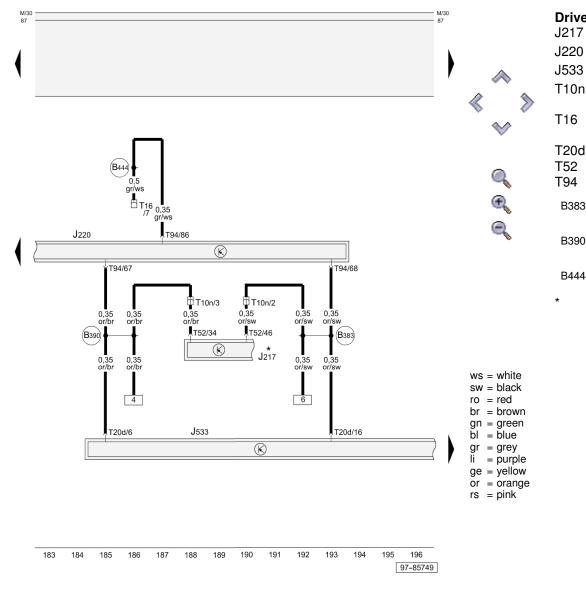
 $_{\rm 281}$ $\,$ - Earth connection 1, in engine harness

- Earth connection 2, in engine harness

- Connection (87a), in engine wiring harness



Audi A3 Current Flow Diagram No. 118 / 15



Drive train CAN bus, diagnosis

J217 - Automatic gearbox control unit 쳽

- Motronic control unit

- C

- Data bus diagnostic interface 💩

T10n - 10-pin connector, black, near longitudinal member, front left

T16 - 16-pin connector, black, dash panel, driver side, bottom left (diagnostic connector)

T20d - 20-pin connector, yellow (connector A)

T52 - 52-pin connector, black (connector A)

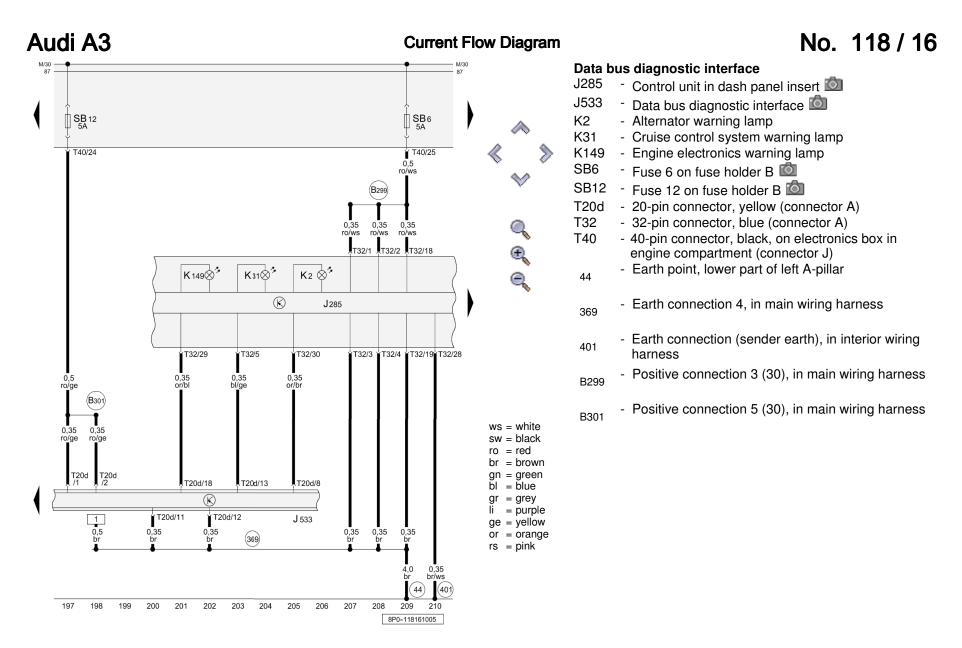
T94 - 94-pin connector, black (connector B)

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

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

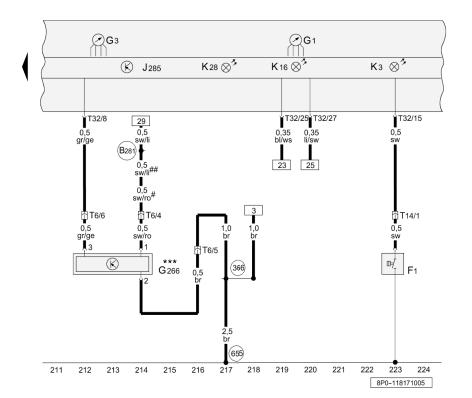
B444 - Connection 1 (diagnosis), in main wiring harness

* - for models with automatic gearbox (09G) only



Audi A3 Current Flow Diagram No. 118 / 17





Oil pressure switch, oil level and oil temperature sender

F1 - Oil pressure switch

G1 - Fuel gauge

G3 - Coolant temperature gauge

G266 - Oil level and oil temperature sender

J285 - Control unit in dash panel insert 🔕

K3 - Oil pressure warning lampK16 - Reserve fuel warning lamp

K28 - Coolant temperature and coolant shortage warning

lamp

T6 - 6-pin connector, black, near longitudinal member,

T14 - 14-pin connector, black, near longitudinal member, front left

T32 - 32-pin connector, blue (connector A)

- Earth connection 1, in main wiring harness

- Earth point, on left headlight

- Positive connection 5 (15a), in main wiring harness

- for models with extended servicing intervals (ESI) only

- No longer fitted, phased-in modification

- phased-in modification











or = orange rs = pink