

Audi A3

Current Flow Diagram

No. 3/1

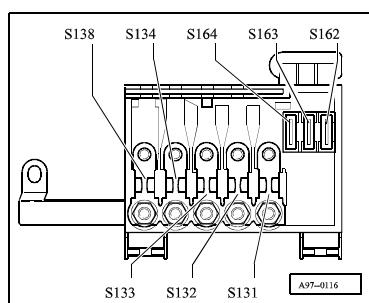
1.8 litre fuel injection engine (Motronic), 154 kW, 4-cylinder, engine code AMK

1.8 litre fuel injection engine (Motronic), 132 kW, 4-cylinder, engine codes ARY,AUQ

1.8 litre fuel injection engine (Motronic), 110 kW, 4-cylinder, engine codes ARX, AUM

From model year 2001

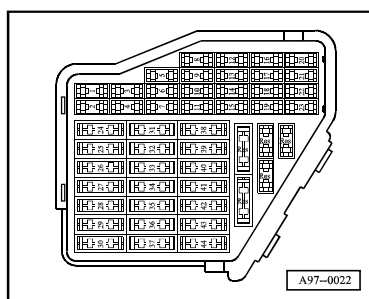
Main fuse box / battery (engine compartment)



Position of fuses:

S131 -Fuse 1
 S132 -Fuse 2
 S133 -Fuse 3
 S134 -Fuse 4
 S138 -Fuse 5
 S162 -1 in fuse box/battery
 S163 -2 in fuse box/battery
 S164 -3 in fuse box/battery

Fuse box (dash panel)



Fuse colours:

30 A -green
 25 A -white
 20 A -yellow
 15 A -blue
 10 A -red
 7.5 A -brown
 5 A -beige

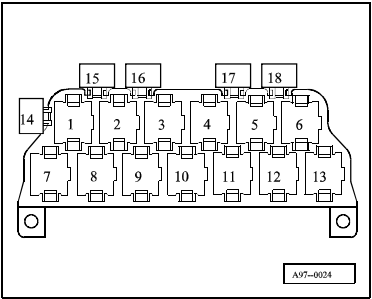
From fuse number 23 upwards the fuses in the fuse box are designated as 223 etc. in the Current Flow Diagram.

Audi A3

Current Flow Diagram

No. 3/2

13-point relay carrier
(under driver's storage compartment)

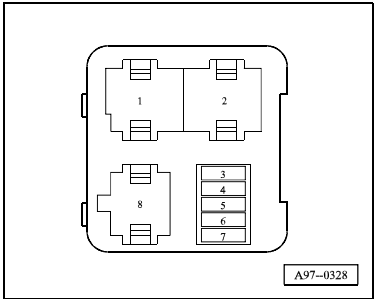


Position of relays:

- 13 - Coolant pump control unit *

* Does not apply to engine code AMK and models with air conditioner

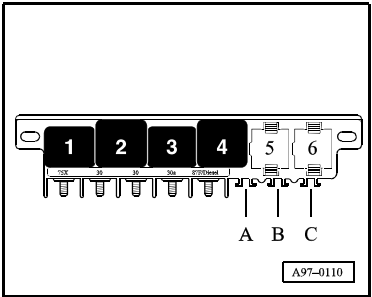
3-point relay carrier/fuse box (engine compartment)



Position of relays:

- 1 - Secondary air pump relay
- 2 - Motronic current supply relay

Micro-central electrics
(under driver's storage compartment)



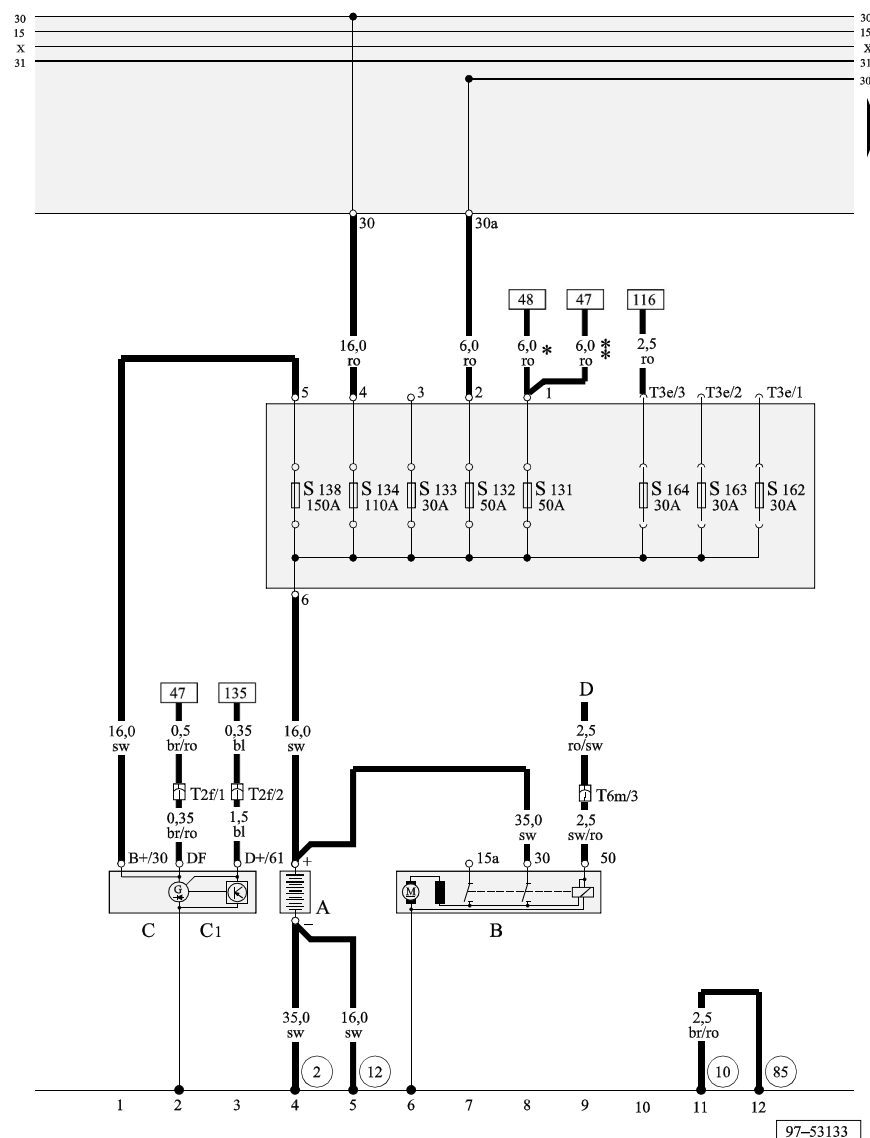
Position of relays:

- 4 - Fuel pump relay

Audi A3

Current Flow Diagram

No. 3 / 2



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

Battery, starter, alternator, ignition/starter switch, fuses

- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- S131 - Fuse 1 in fuse box/battery
- S132 - Fuse 2 in fuse box/battery
- S133 - Fuse 3 in fuse box/battery
- S134 - Fuse 4 in fuse box/battery
- S138 - Fuse 5 in fuse box/battery
- S162 - Fuse -1- (30), in fuse box/battery
- S163 - Fuse -2- (30), in fuse box/battery
- S164 - Fuse -3- (30), in fuse box/battery
- T2f - 2-pin connector, alternator, in engine compartment, left
- T3e - 3-pin connector, black, on main fuse box
- T6m - 6-pin connector, brown, in plenum chamber
- 2 - Earth strap, gearbox - body
- 10 - Earth point, in plenum chamber
- 12 - Earth point, in engine compartment, left
- 85 - Earth connection -1-, in engine compartment wiring harness
- * - Only models with manual gearbox
- ** - Only models with automatic gearbox

97-53133

Current Flow Diagram

No. 3 / 3

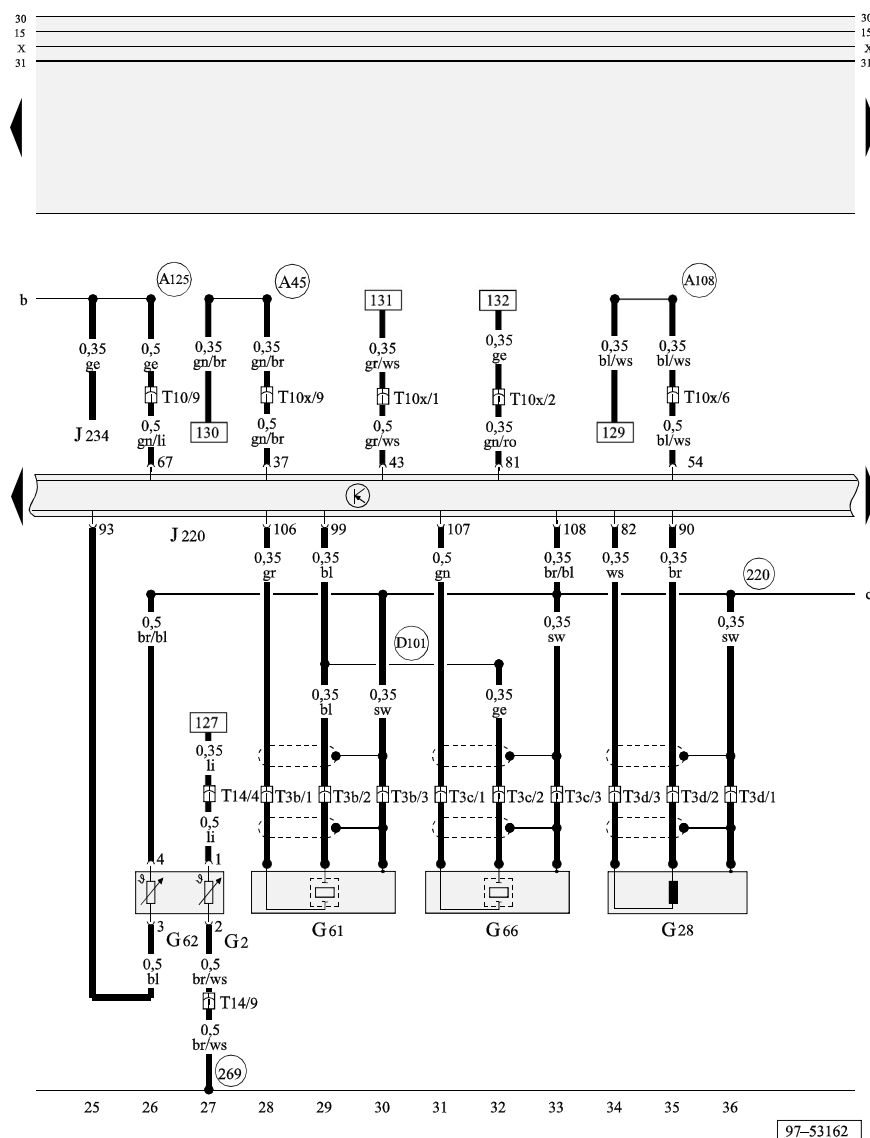


- D - Ignition/starter switch
- J17 - Fuel pump relay
- J220 - Motronic control unit
- J542 - Brake servo control unit
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- N75 - Charge pressure control solenoid valve
- N205 - Inlet camshaft timing adjustment valve -1-
- N249 - Turbocharger divert air valve
- S283 - Brake vacuum pump fuse, in plenum chamber
- T6m - 6-pin connector, brown, in plenum chamber
- T14 - 14-pin connector, in engine compartment, left
- V192 - Vacuum pump for brakes
- 85 - Earth connection -1-, in engine compartment wiring harness
- A86 - Connection (50a), in dash panel wiring harness
- A100 - Connection -2- (87), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- D140 - Connection (injectors), in engine prewiring wiring harness
- E7 - Positive (+) connection (87a), in Motronic wiring harness
- * - Only models with automatic gearbox

Audi A3

Current Flow Diagram

No. 3 / 4



Motronic control unit, knock sensors, engine speed sender, coolant temperature senders

- G2 - Coolant temperature sender
- G28 - Engine speed sender
- G61 - Knock sensor I
- G62 - Coolant temperature sender
- G66 - Knock sensor II
- J220 - Motronic control unit
- J234 - Airbag control unit
- T3b - 3-pin connector, blue, knock sensor I, in engine compartment
- T3c - 3-pin connector, grey, knock sensor II, in engine compartment
- T3d - 3-pin connector, white, engine speed sender, in engine compartment
- T10 - 10-pin connector, white, in plenum chamber
- T10x - 10-pin connector, orange, in plenum chamber
- T14 - 14-pin connector, in engine compartment, left
- 220 - Earth connection (sender earth), in engine wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- A45 - Connection (engine speed signal), in dash panel wiring harness
- A108 - Connection (speed signal), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness
- D101 - Connection -1-, in engine compartment wiring harness

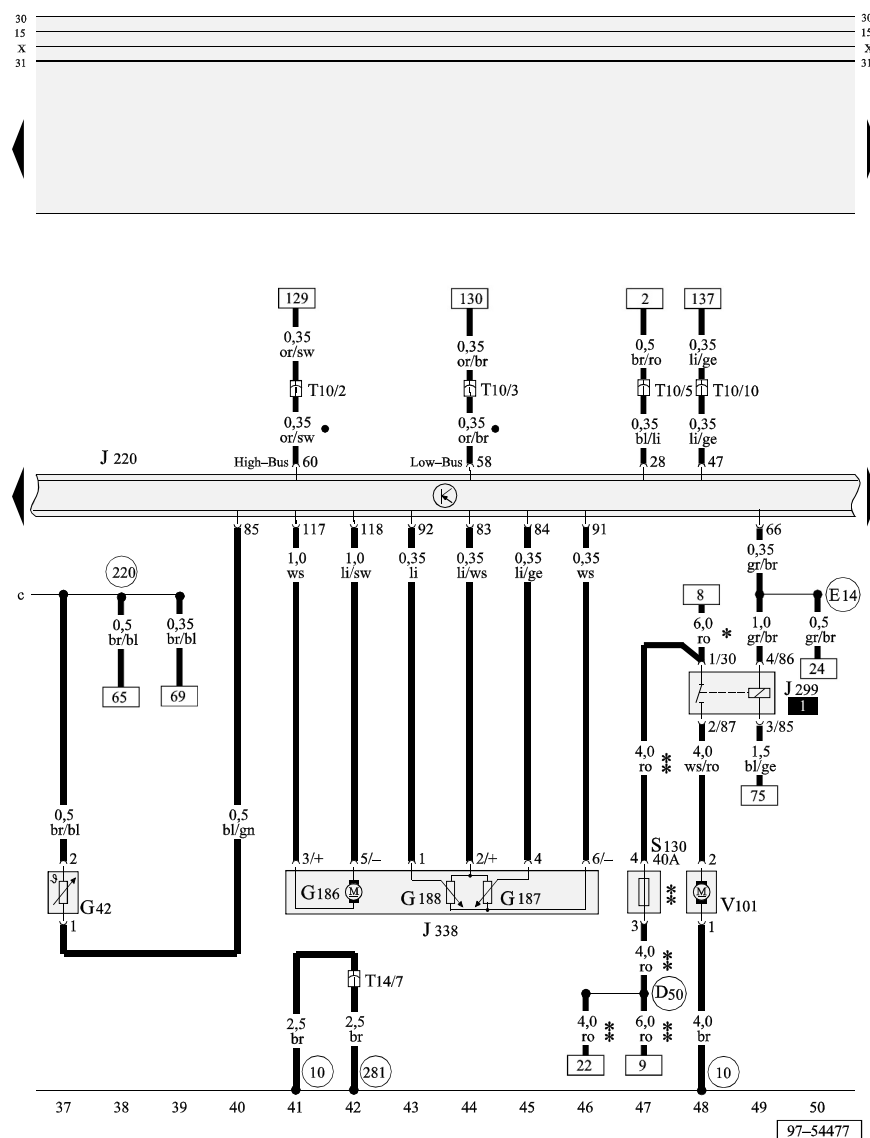
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 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

97-53162

Audi A3

Current Flow Diagram

No. 3 / 5



Motronic control unit, throttle valve control unit, secondary air system, intake air temperature sender

- G42 - Intake air temperature sender
- G186 - Throttle valve drive (electric throttle operation)
- G187 - Throttle valve drive angle sender -1- (electric throttle operation)
- G188 - Throttle valve drive angle sender -2- (electric throttle operation)
- J220 - Motronic control unit
- J299 - Secondary air pump relay, in plenum chamber
- J338 - Throttle valve control unit
- S130 - Secondary air pump fuse, in plenum chamber
- T10 - 10-pin connector, white, in plenum chamber
- T14 - 14-pin connector, in engine compartment, left
- V101 - Secondary air pump motor
- 10 - Earth point, in plenum chamber
- 220 - Earth connection (sender earth), in engine wiring harness
- 281 - Earth connection -1-, in engine prewiring wiring harness
- D50 - Positive (+) connection (30), in engine compartment wiring harness
- E14 - Connection -1-, in Motronic wiring harness
- * - Only models with manual gearbox
- ** - Only models with automatic gearbox
- - CAN bus (data wire)

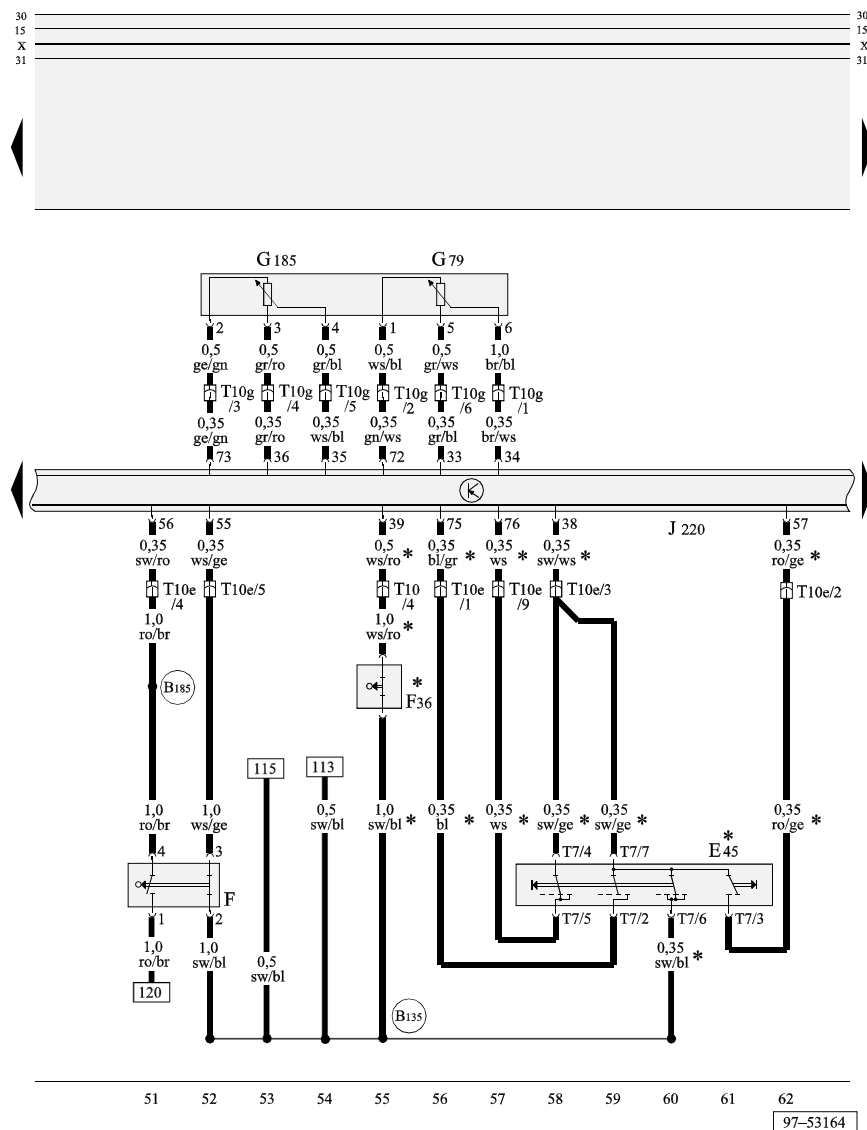
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 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

97-54477

Audi A3

Current Flow Diagram

No. 3 / 6



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

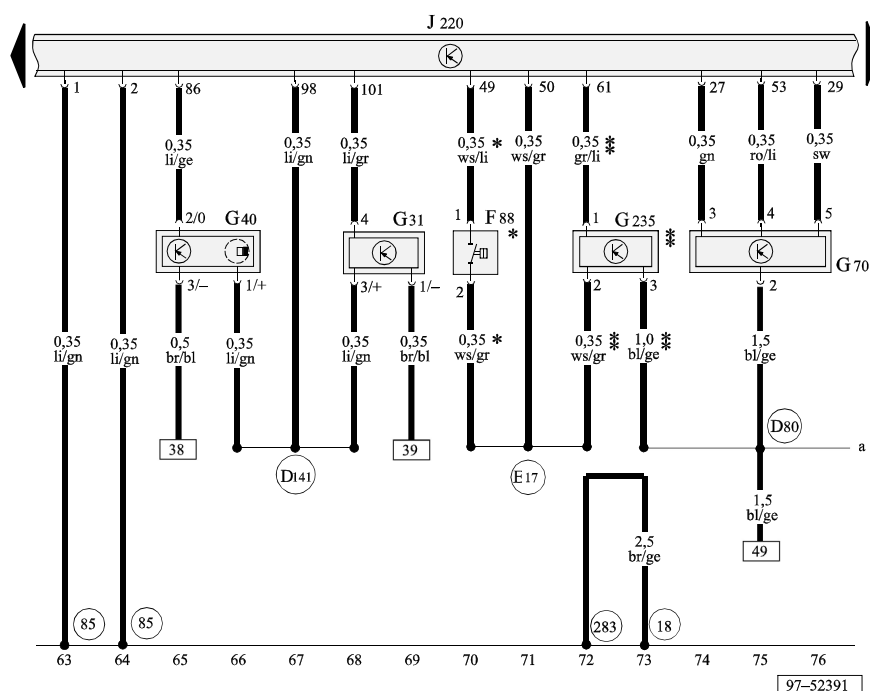
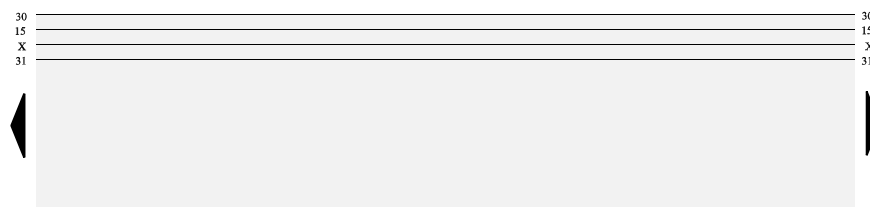
Motronic control unit, accelerator pedal position senders, brake light switch, clutch pedal switch, cruise control system switch

- E45 - Cruise control system switch
- F - Brake light switch
- F36 - Clutch pedal switch
- G79 - Accelerator pedal position sender
- G185 - Accelerator pedal position sender -2-
- J220 - Motronic control unit
- T7 - 7-pin connector, cruise control system, behind steering column switch trim
- T10 - 10-pin connector, white, in plenum chamber
- T10e - 10-pin connector, black, in plenum chamber
- T10g - 10-pin connector, blue, in plenum chamber
- B135 - Connection -1- (15a), in interior wiring harness
- B185 - Connection -2- (54), in interior wiring harness
- * - Only models with cruise control system
- ** - Only models with manual gearbox

Audi A3

Current Flow Diagram

No. 3 / 7



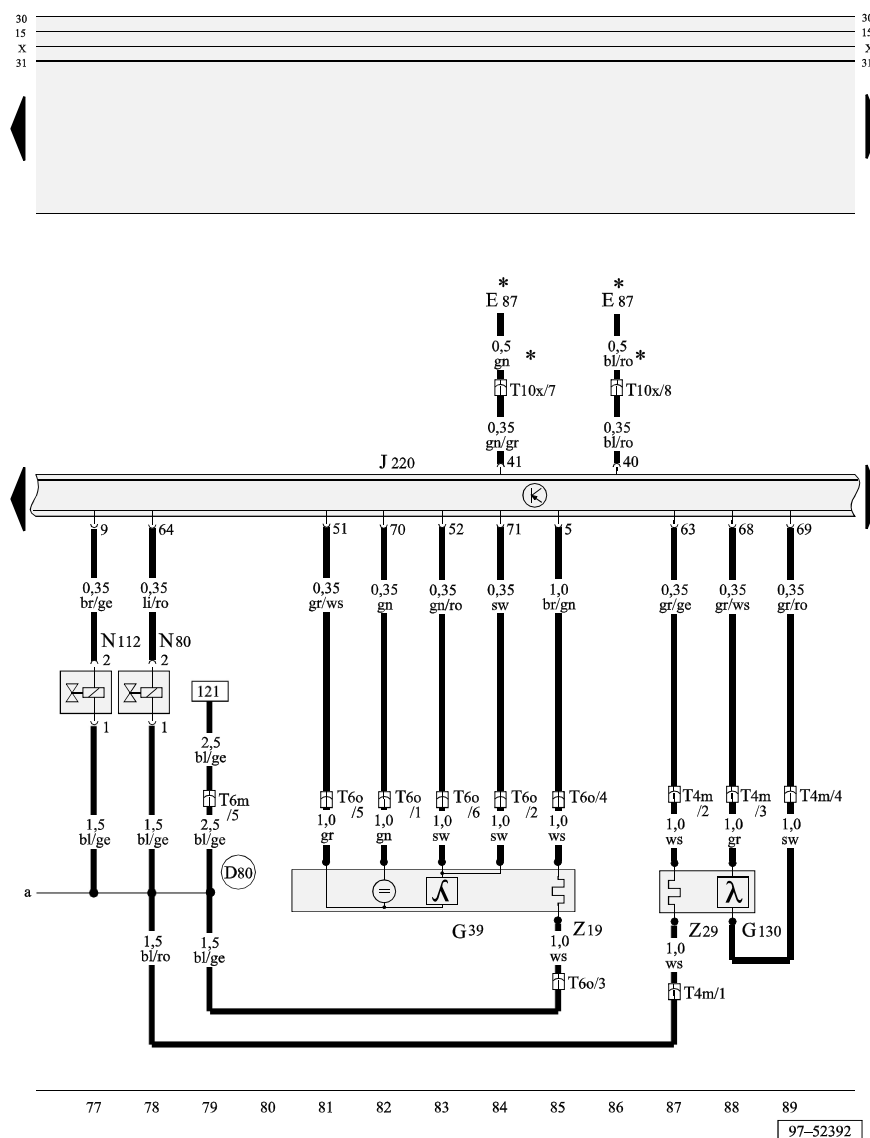
Motronic control unit, air mass meter, charge air pressure sender, exhaust gas temperature sender -1-, Hall sender

- F88 - Power assisted steering pressure switch
- G31 - Charge air pressure sender
- G40 - Hall sender
- G70 - Air mass meter
- G235 - Exhaust gas temperature sender -1-
- J220 - Motronic control unit
- 18 - Earth point, on cylinder block
- 85 - Earth connection -1-, in engine compartment wiring harness
- 283 - Earth connection -2-, in engine prewiring wiring harness
- D80 - Positive (+) connection (87a - for activated charcoal filter system solenoid valve), in engine compartment wiring harness
- D141 - Connection (5V), in engine prewiring wiring harness
- E17 - Connection -2-, in Motronic wiring harness
- * - Does not apply to engine code AUM
- ** - Applies to engine code AMK only

Audi A3

Current Flow Diagram

No. 3 / 8

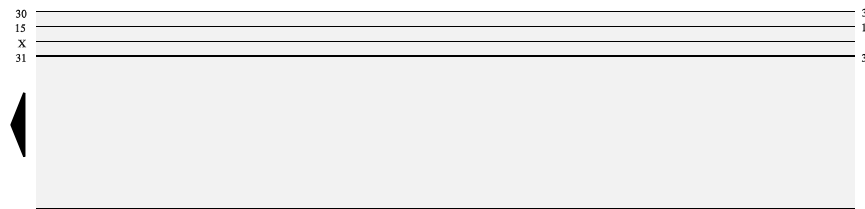
**Motronic control unit, lambda probes, solenoid valves**

- E87 - Control and display unit for air conditioner/Climatronic
- G39 - Lambda probe
- G130 - Lambda probe downstream of catalytic converter
- J220 - Motronic control unit
- N80 - Activated charcoal filter system solenoid valve I (pulsed)
- N112 - Secondary air inlet valve
- T4m - 4-pin connector, lambda probe, in engine compartment, right
- T6m - 6-pin connector, brown, in plenum chamber
- T6o - 6-pin connector, lambda probe, in engine compartment, right
- T10x - 10-pin connector, orange, in plenum chamber
- Z19 - Lambda probe heater
- Z29 - Lambda probe 1 heater, downstream of catalytic converter
- D80 - Positive (+) connection (87a - for activated charcoal filter system solenoid valve), in engine compartment wiring harness
- * - Only models with air conditioner / Climatronic

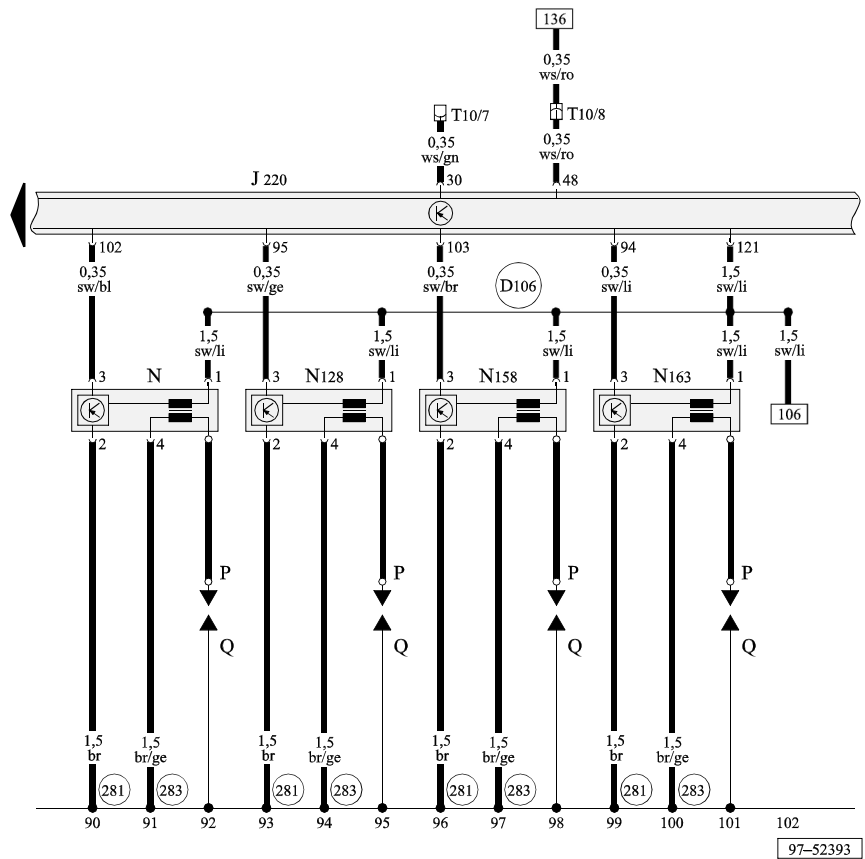
Audi A3

Current Flow Diagram

No. 3 / 9

**Motronic control unit, ignition coils**

- J220 - Motronic control unit
- N - Ignition coil
- N128 - Ignition coil 2
- N158 - Ignition coil 3
- N163 - Ignition coil 4
- P - Spark plug connector
- Q - Spark plugs
- T10 - 10-pin connector, white, in plenum chamber
- 281 - Earth connection -1-, in engine prewiring wiring harness
- 283 - Earth connection -2-, in engine prewiring wiring harness
- D106 - Connection -4-, in engine compartment wiring harness



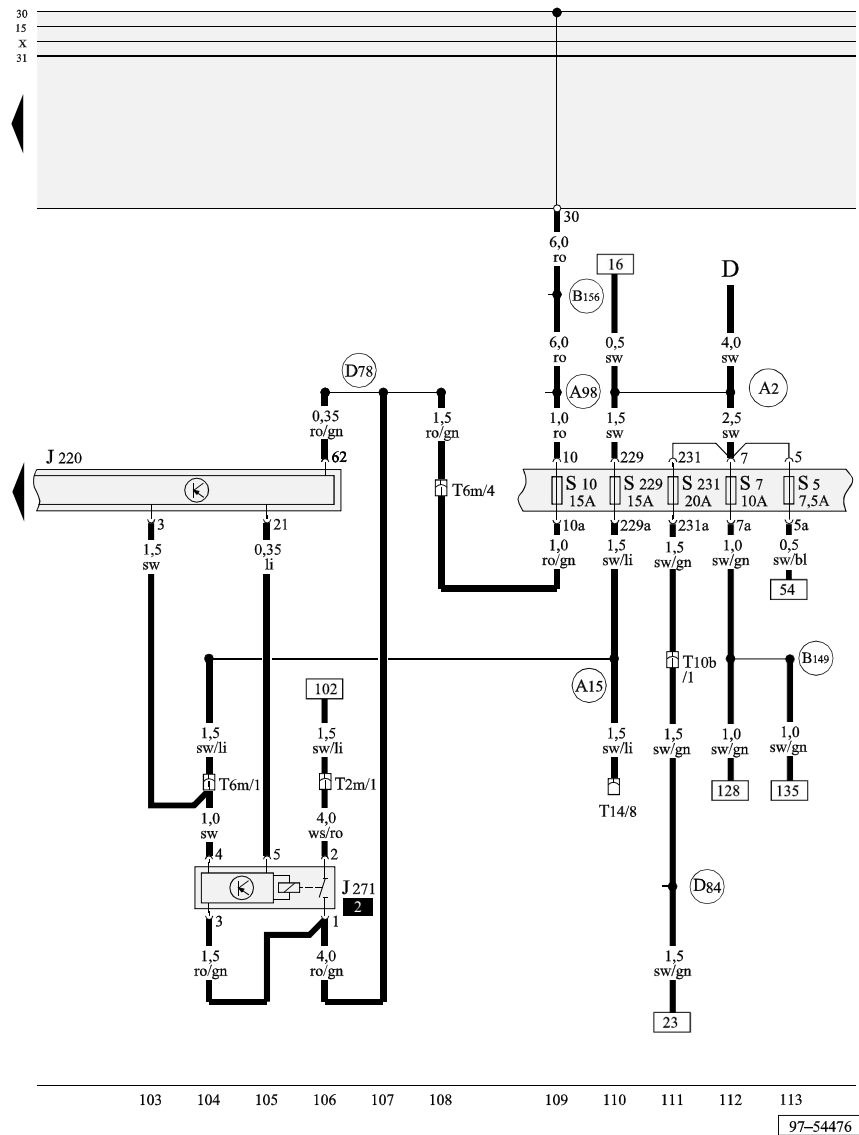
ws = white
 sw = black
 ro = red
 rt = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = purple
 vi = purple
 ge = yellow
 or = orange
 rs = pink

97-52393

Audi A3

Current Flow Diagram

No. 3 / 10

**Motronic control unit, Motronic current supply relay, fuses**

- D - Ignition/starter switch
- J220 - Motronic control unit
- J271 - Motronic current supply relay, in plenum chamber
- S5 - Fuse in fuse box/relay plate
- S7 - Fuse in fuse box/relay plate
- S10 - Fuse in fuse box/relay plate
- S229 - Fuse in fuse box
- S231 - Fuse in fuse box
- T2m - 2-pin connector, engine prewiring, wiring duct, in engine compartment, left
- T6m - 6-pin connector, brown, engine compartment, in plenum chamber
- T10b - 10-pin connector, grey, in plenum chamber
- T14 - 14-pin connector, in engine compartment, left
- A2 - Positive (+) connection (15), in dash panel wiring harness
- A15 - Positive (+) connection (15), in dash panel wiring harness
- A98 - Positive (+) connection -4- (30), in dash panel wiring harness
- B149 - Positive (+) connection -2- (15a), in interior wiring harness
- B156 - Positive (+) connection (30a), in interior wiring harness
- D78 - Positive (+) connection -1- (30a), in engine compartment wiring harness
- D84 - Connection (automatic gearbox), 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

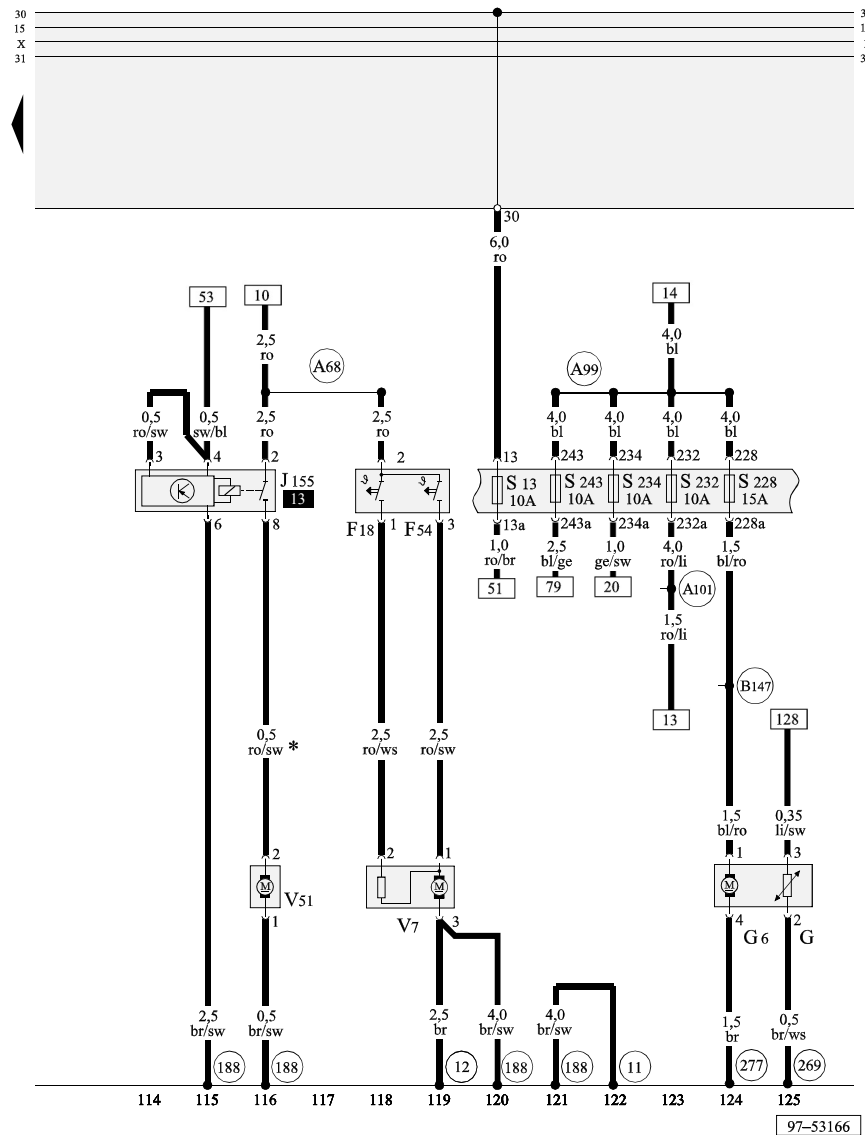
103 104 105 106 107 108 109 110 111 112 113

97-54476

Audi A3

Current Flow Diagram

No. 3 / 11



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

Radiator fan thermo-switches, fuel pump, fuses, coolant pump control unit

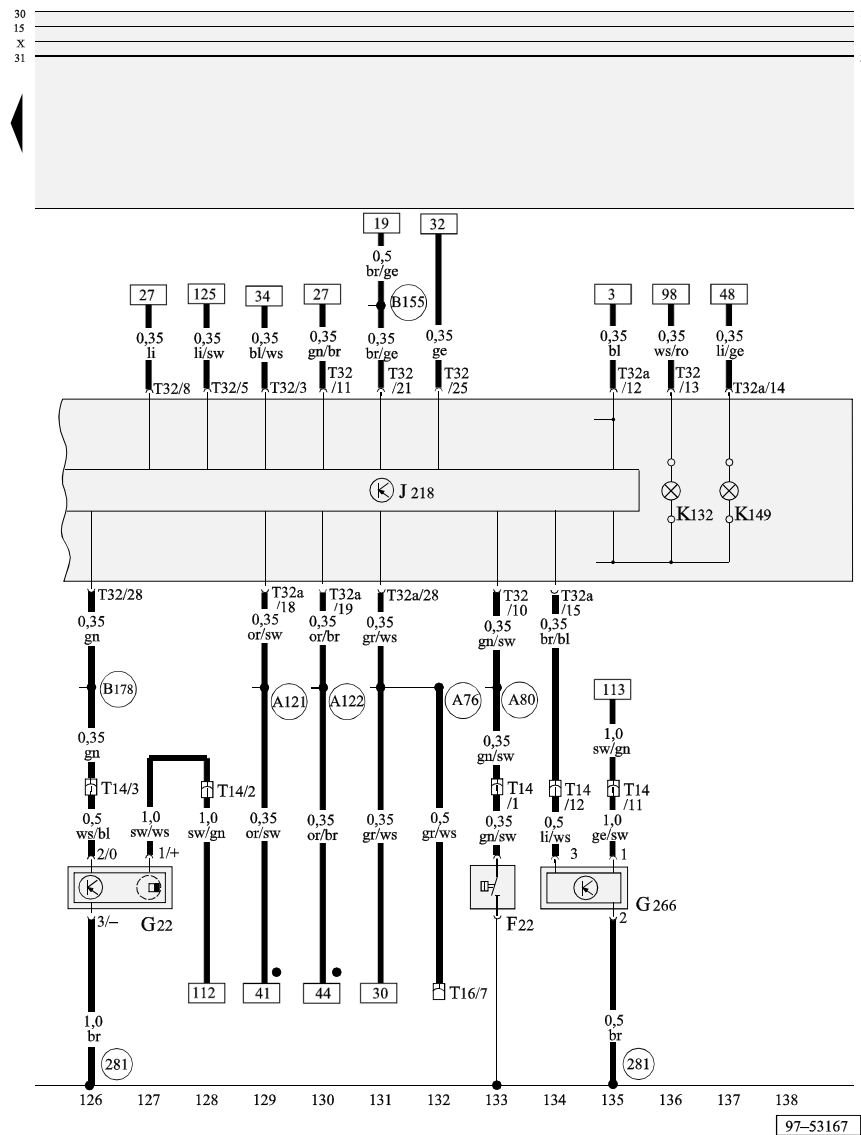
- F18 - Radiator fan thermo-switch
- F54 - Radiator fan thermo-switch
- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- J155 - Coolant pump control unit
- S13 - Fuse in fuse box/relay plate
- S228 - Fuse in fuse box
- S232 - Fuse in fuse box
- S234 - Fuse in fuse box
- S243 - Fuse in fuse box
- V7 - Radiator fan
- V51 - Continued coolant circulation pump
- 11 - Earth point, in battery box
- 12 - Earth point, in engine compartment, left
- 188 - Earth connection -3-, in air conditioner wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- 277 - Earth connection -3-, in interior wiring harness
- A68 - Connection (30, air conditioner), in dash panel wiring harness
- A99 - Connection -1- (87), in dash panel wiring harness
- A101 - Connection -3- (87), in dash panel wiring harness
- B147 - Positive (+) connection -2- (87), in interior wiring harness

97-53166

Audi A3

Current Flow Diagram

No. 3 / 12



Dash panel insert, oil pressure switch, oil level/oil temperature sender, speedometer sender

- F22 - Oil pressure switch (0.3 bar)
- G22 - Speedometer sender (Hall sender, on gearbox)
- G266 - Oil level/oil temperature sender
- J218 - Combi-processor in dash panel insert
- K132 - Electronic power control fault lamp
- K149 - Engine electronics warning lamp
- T14 - 14-pin connector, in engine compartment, left
- T16 - 16-pin connector, black, centre console compartment (diagnosis connector)
- T32 - 32-pin connector, blue, on dash panel insert
- T32a - 32-pin connector, green, on dash panel insert
- 281 - Earth connection -1-, in engine prewiring wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- A80 - Connection -1- (X), in dash panel wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- B155 - Connection -2- (DC), in interior wiring harness
- B178 - Connection (speed signal), in interior wiring harness
- - CAN bus (data wire)

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

97-53167