Audi A4

Current Flow Diagram

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Edition 04.2007

2.0 l - Fuel injection engine (96 kW - Motronic - 4 cylinder), engine code ALT

from August 2004

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

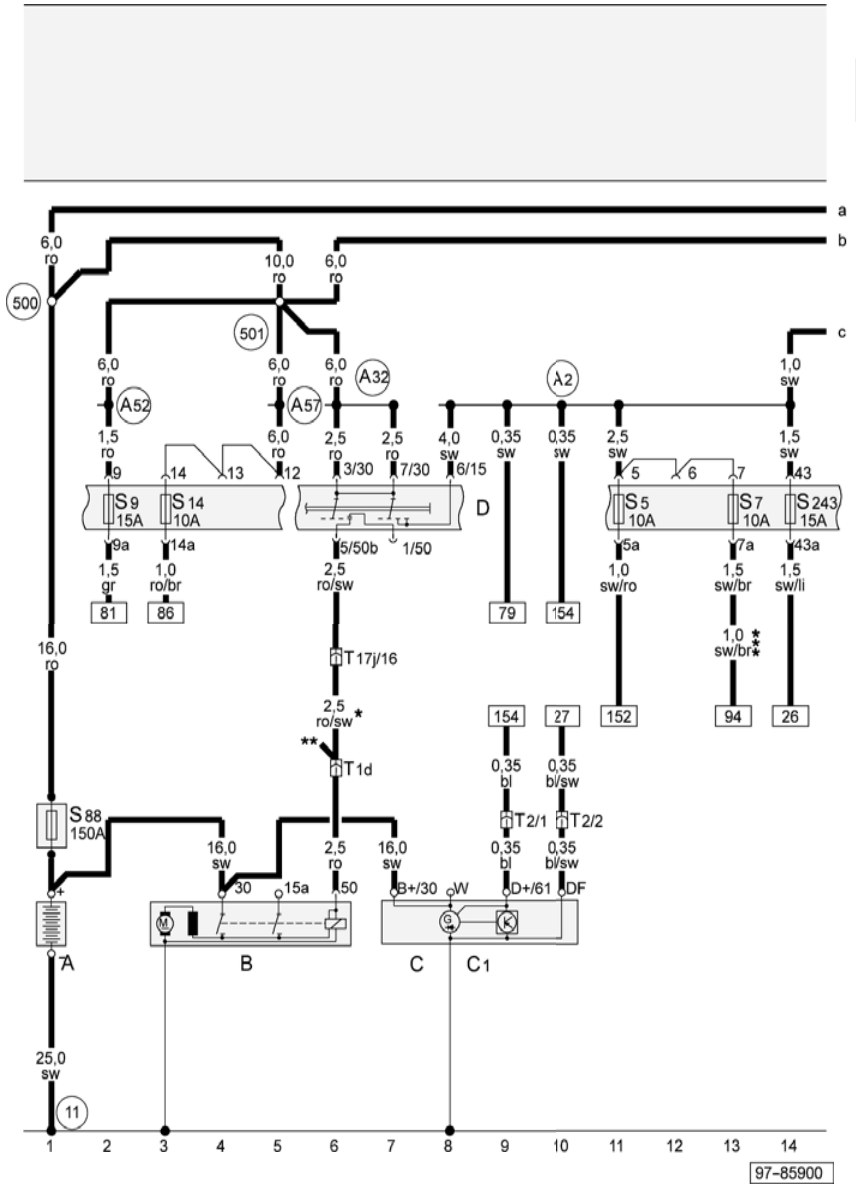
- Fault Finding Programs

→ guided fault finding

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Current Flow Diagram

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

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

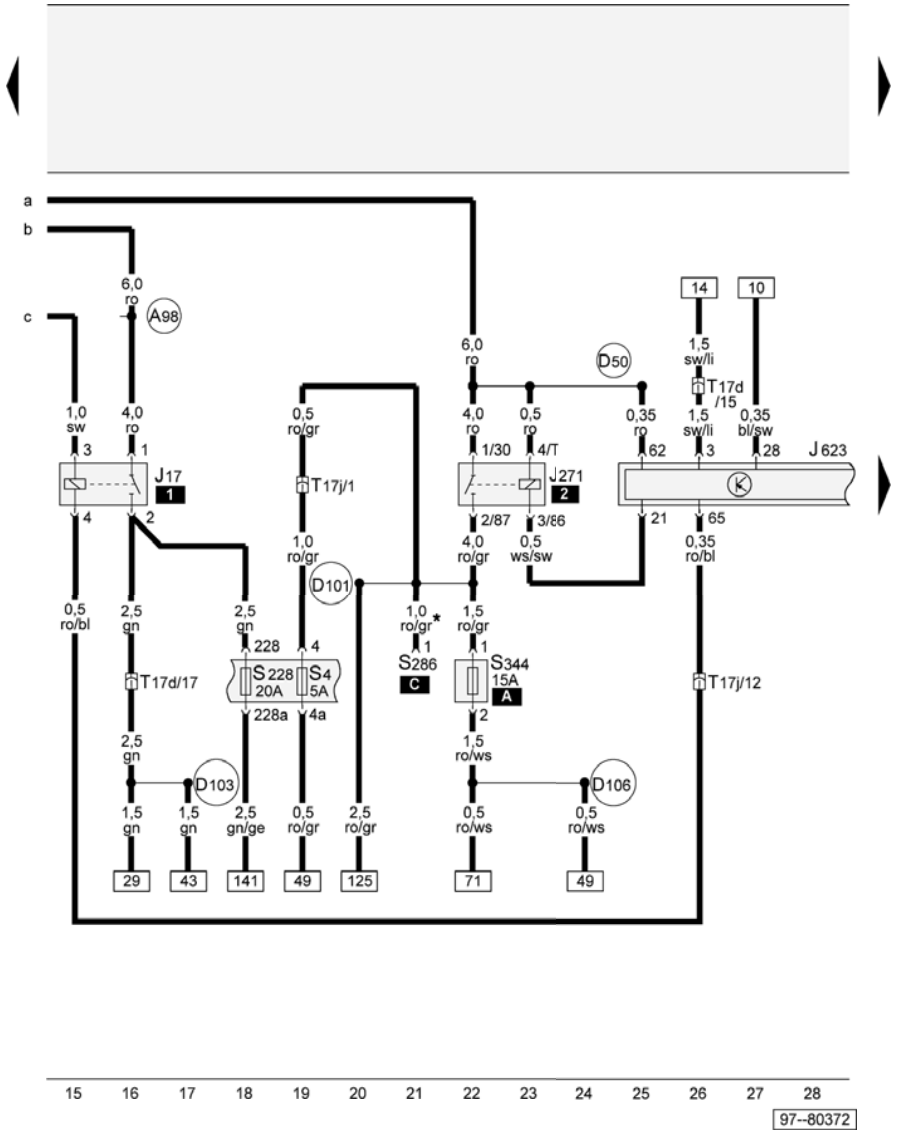
A - Battery
B - Starter
C - Alternator
C1 - Voltage regulator
D - Ignition/starter switch
S5 - Fuse in relay plate fuse holder
S7 - Fuse in relay plate fuse holder
S9 - Fuse in relay plate fuse holder
S14 - Fuse in relay plate fuse holder
S88 - Strip fuse
S243 - Fuse in fuse holder
T1d - Single connector, black, left engine compartment
T2 - 2-pin connector, black, right engine compartment
T17j - 17-pin connector, brown, coupling station on electronics box, plenum chamber
11 - Earth point, in battery box
500 - Screw connection 1 (30), on relay plate
501 - Screw connection 2 (30), on relay plate
A2 - Positive connection (15), in dash panel wiring harness
A32 - Positive connection (30), in dash panel wiring harness
A52 - Positive connection 2 (30), in dash panel wiring harness
A57 - Positive connection 3 (30), in dash panel wiring harness

* - for models with manual gearbox only
** - for models with automatic gearbox only, □ applicable Current Flow Diagram: automatic gearbox
*** - applicable from model year 2006

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Current Flow Diagram

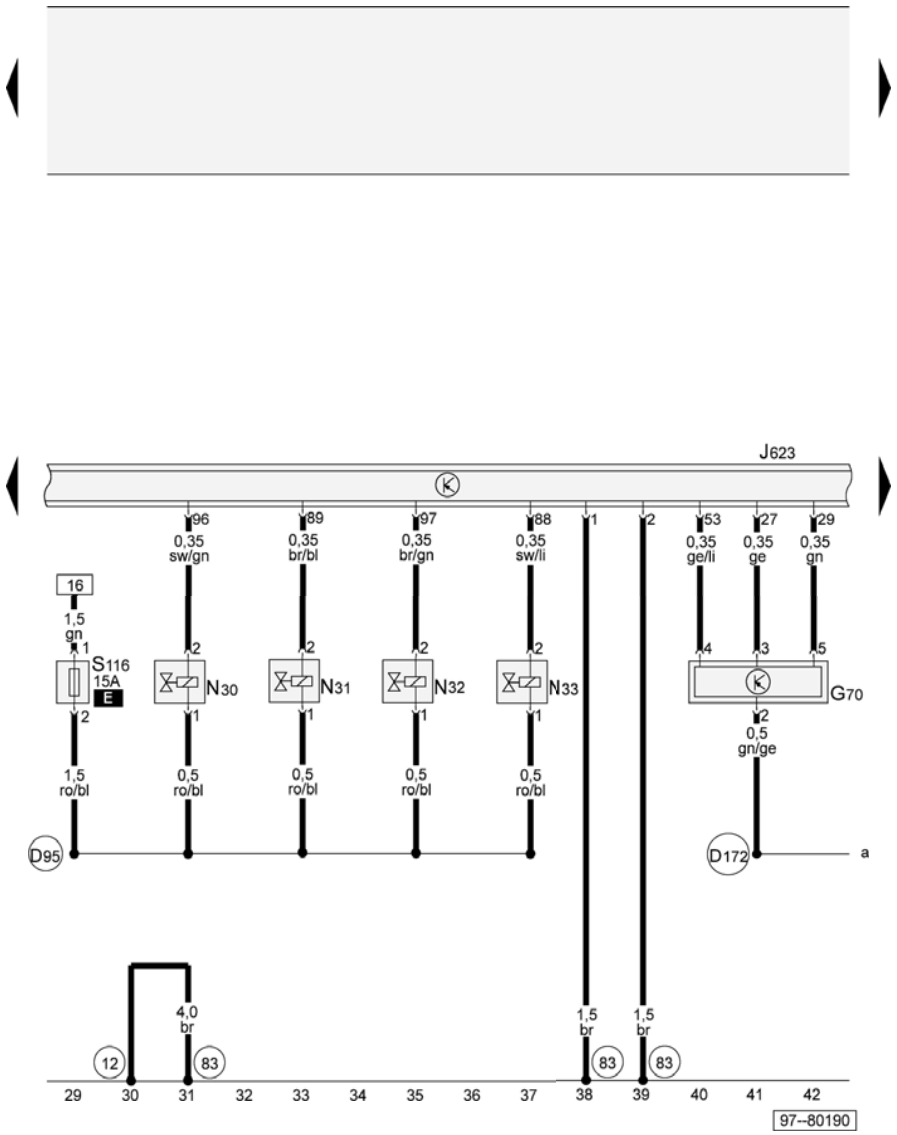
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Engine control unit, fuel pump relay, Motronic current supply relay, fuses

J17 - Fuel pump relay
J271 - Motronic current supply relay
J623 - Engine control unit
S4 - Fuse in relay plate fuse holder
S228 - Fuse in fuse holder
S286 - Automatic gearbox fuse, run-on
S344 - Engine electronics fuse 2
T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
T17j - 17-pin connector, brown, coupling station on electronics box, plenum chamber
A98 - Positive connection 4 (30), in dash panel wiring harness
D50 - Positive connection (30), in engine compartment wiring harness
D101 - Connection 1, in engine compartment wiring harness
D103 - Connection 3, in engine compartment wiring harness
D106 - Connection 4, in engine compartment wiring harness
* - for models with automatic gearbox (multitronic 01J / multitronic 0AN) only



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Engine control unit, air mass meter, injectors

G70 - Air mass meter
J623 - Engine control unit
N30 - Injector, cylinder 1
N31 - Injector, cylinder 2
N32 - Injector, cylinder 3
N33 - Injector, cylinder 4
S116 - Injector fuse

12 - Earth point, on left in engine compartment

83 - Earth connection 1, in front right wiring harness

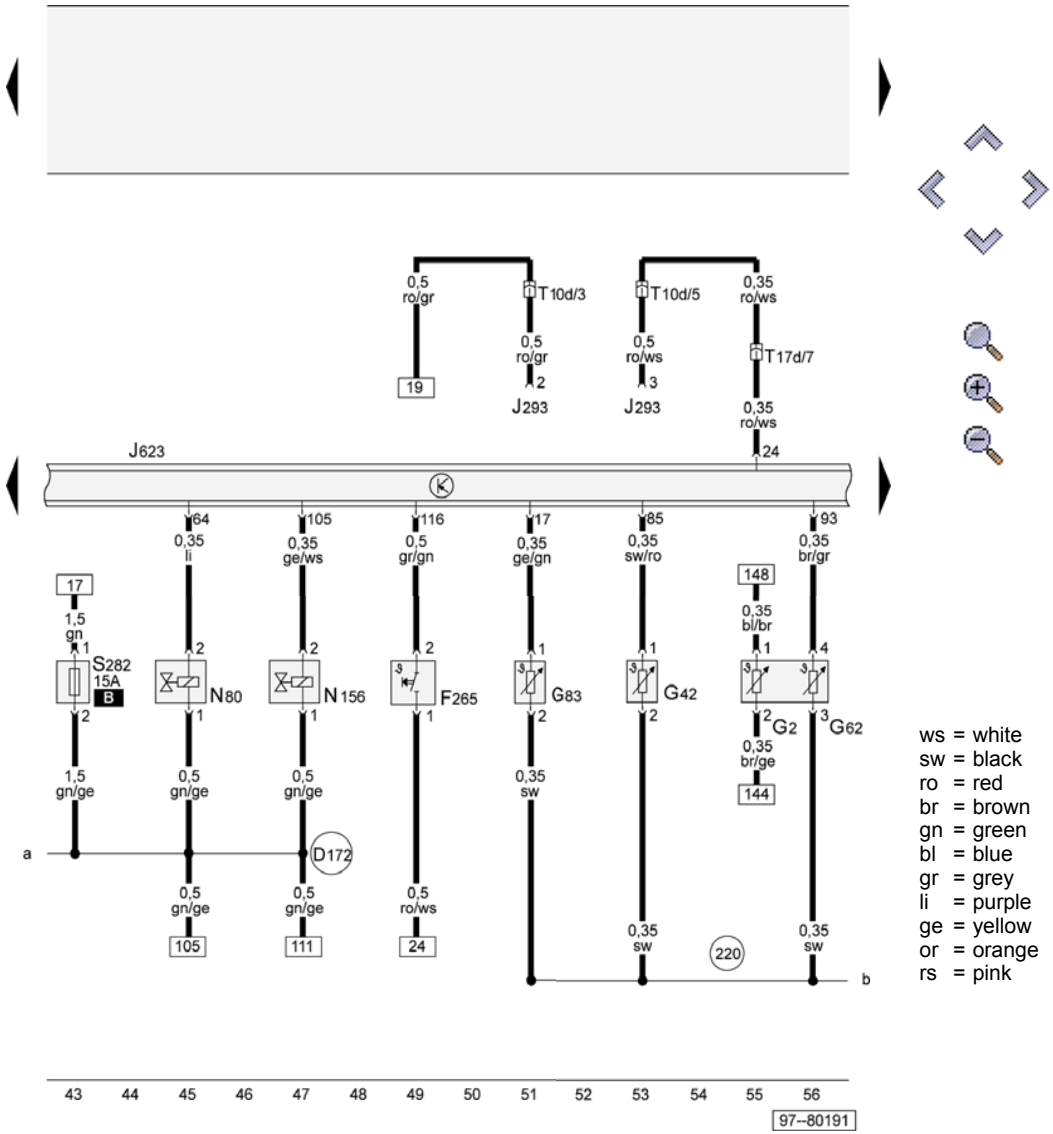
D95 - Connection (injectors), in engine compartment wiring harness

D172 - Connection (engine electrics), in engine compartment wiring harness

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Current Flow Diagram

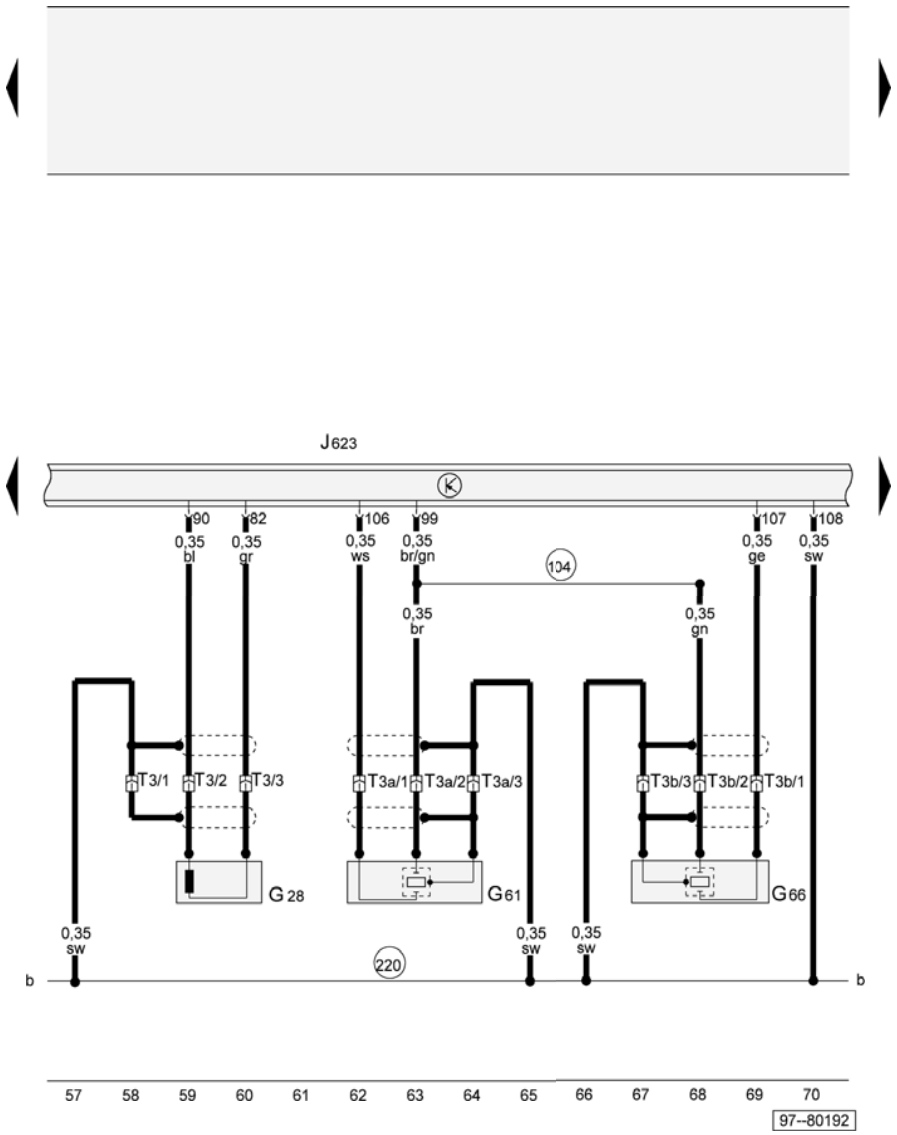
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Engine control unit, coolant temperature sender, intake air temperature sender, active charcoal filter system solenoid valve 1, variable intake manifold change-over valve

F265	-	Map-controlled engine cooling system thermostat
G2	-	Coolant temperature display sender
G42	-	Intake air temperature sender
G62	-	Coolant temperature sender
G83	-	Radiator outlet coolant temperature sender
J293	-	Radiator fan control unit
J623	-	Engine control unit
N80	-	Activated charcoal filter system solenoid valve 1
N156	-	Variable intake manifold change-over valve
S282	-	Engine electronics fuse
T10d	-	10-pin connector, grey, coupling station on left of A-pillar
T17d	-	17-pin connector, red, coupling station on electronics box, plenum chamber
220	-	Earth connection (sender earth), in engine wiring harness
D172	-	Connection (engine electrics), in engine compartment wiring harness



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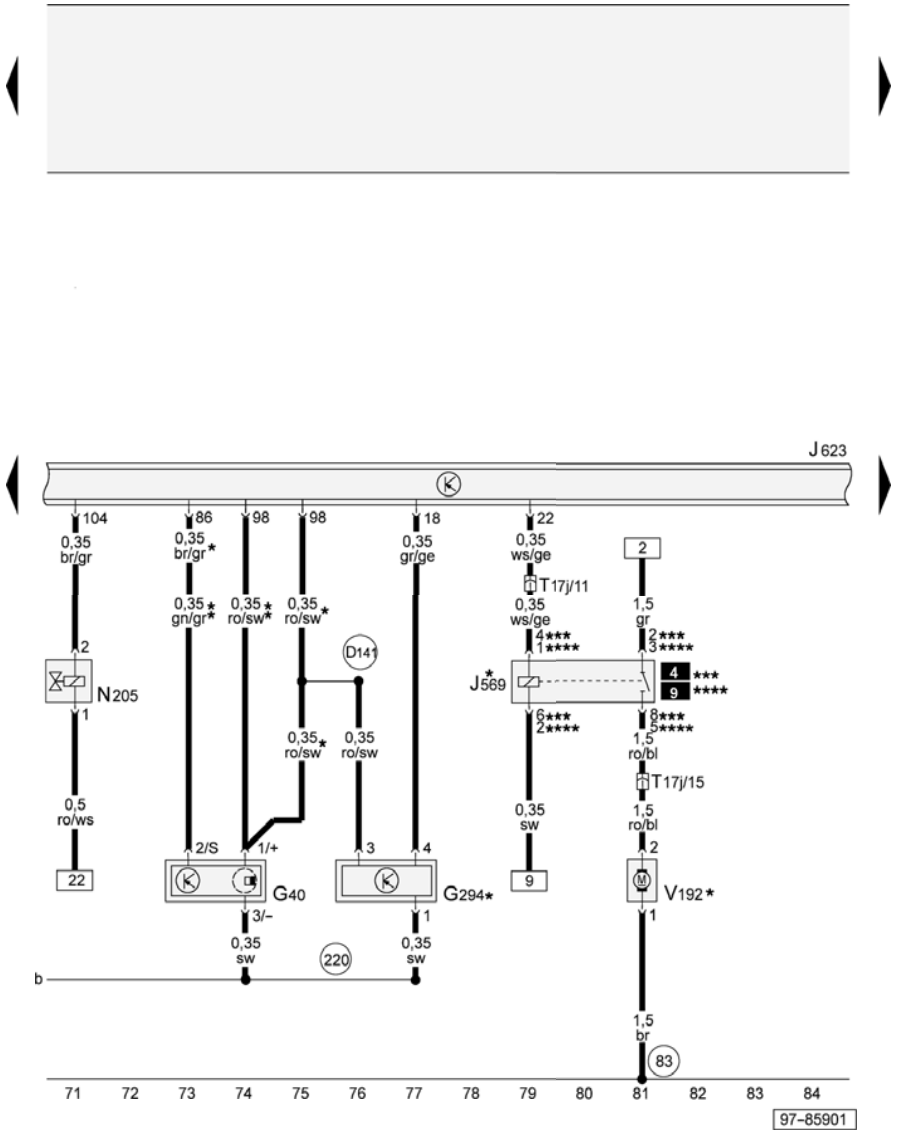
Engine control unit, engine speed sender, knock sensor

G28	-	Engine speed sender
G61	-	Knock sensor 1
G66	-	Knock sensor 2
J623	-	Engine control unit
T3	-	3-pin connector, grey, on engine block
T3a	-	3-pin connector, green, on engine block
T3b	-	3-pin connector, blue, on engine block
104	-	Earth connection in front right wiring harness - sensor earth -
220	-	Earth connection (sender earth), in engine wiring harness

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Current Flow Diagram

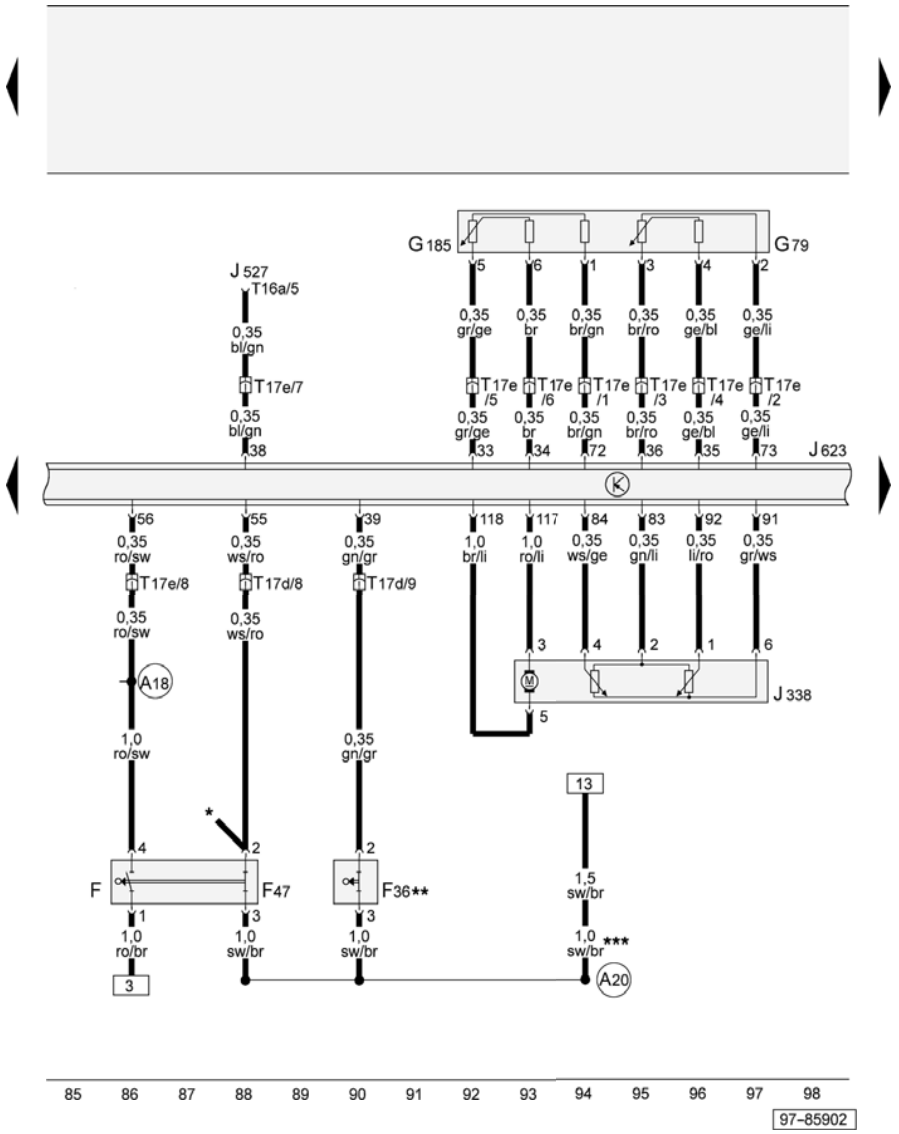
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Engine control unit, Hall sender, inlet camshaft control valve 1, vacuum pump for brakes

G40	-	Hall sender
G294	-	Brake servo pressure sensor
J569	-	Brake servo relay
J623	-	Engine control unit
N205	-	Inlet camshaft control valve 1
T17j	-	17-pin connector, brown, coupling station on electronics box, plenum chamber
V192	-	Vacuum pump for brakes
83	-	Earth connection 1, in front right wiring harness
220	-	Earth connection (sender earth), in engine wiring harness
D141	-	Connection (5V), in engine wiring harness
*	-	for models with automatic gearbox (multitronic 01J / multitronic 0AN) only
**	-	for models with manual gearbox only
***	-	applicable up to model year 2005
****	-	applicable from model year 2006



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Engine control unit, accelerator position sender, throttle valve module, brake light switch

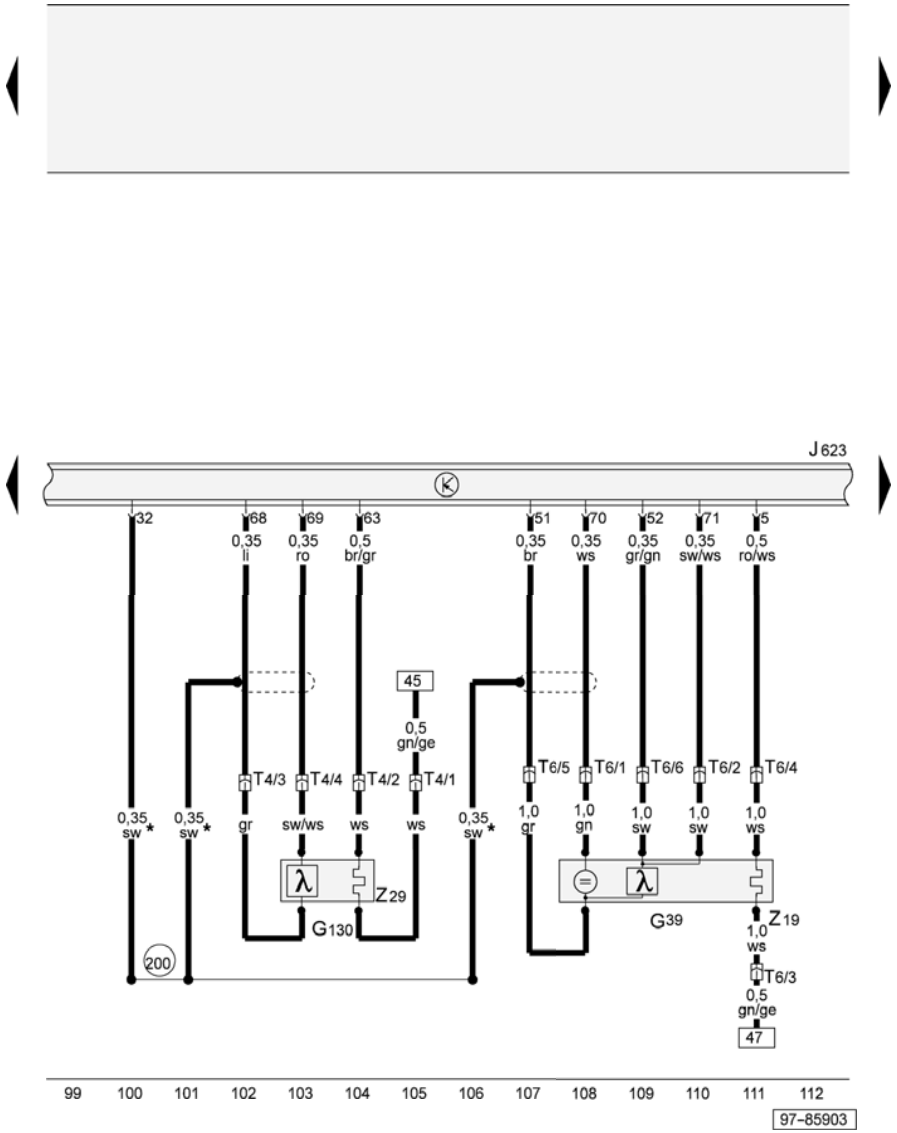
F - Brake light switch
F36 - Clutch pedal switch
F47 - Brake pedal switch
G79 - Accelerator position sender
G185 - Accelerator position sender 2
J338 - Throttle valve module
J527 - Steering column electronics control unit
J623 - Engine control unit
T16a - 16-pin connector, black, on steering column electronics control unit
T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
A18 - Connection (54), in dash panel wiring harness
A20 - Positive connection (15a), in dash panel wiring harness

* - applicable Current Flow Diagram: anti-lock brake system
** - for models with manual gearbox only
*** - applicable from model year 2006

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Current Flow Diagram

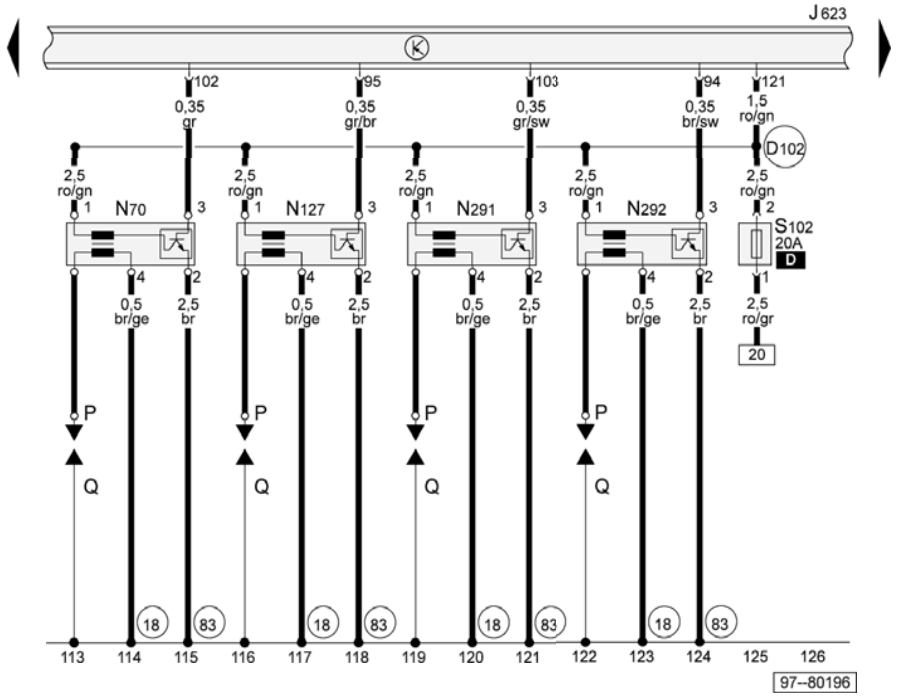
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Engine control unit, Lambda probes

G39	-	Lambda probe
G130	-	Lambda probe after catalytic converter
J623	-	Engine control unit
T4	-	4-pin connector, brown, connector point lambda probe (bulkhead)
T6	-	6-pin connector, black, connector point lambda probe (bulkhead)
Z19	-	Lambda probe heater
Z29	-	Lambda probe 1 heater after catalytic converter
200	-	Earth connection (screening) in engine compartment wiring harness
*	-	No longer fitted, phased-in modification



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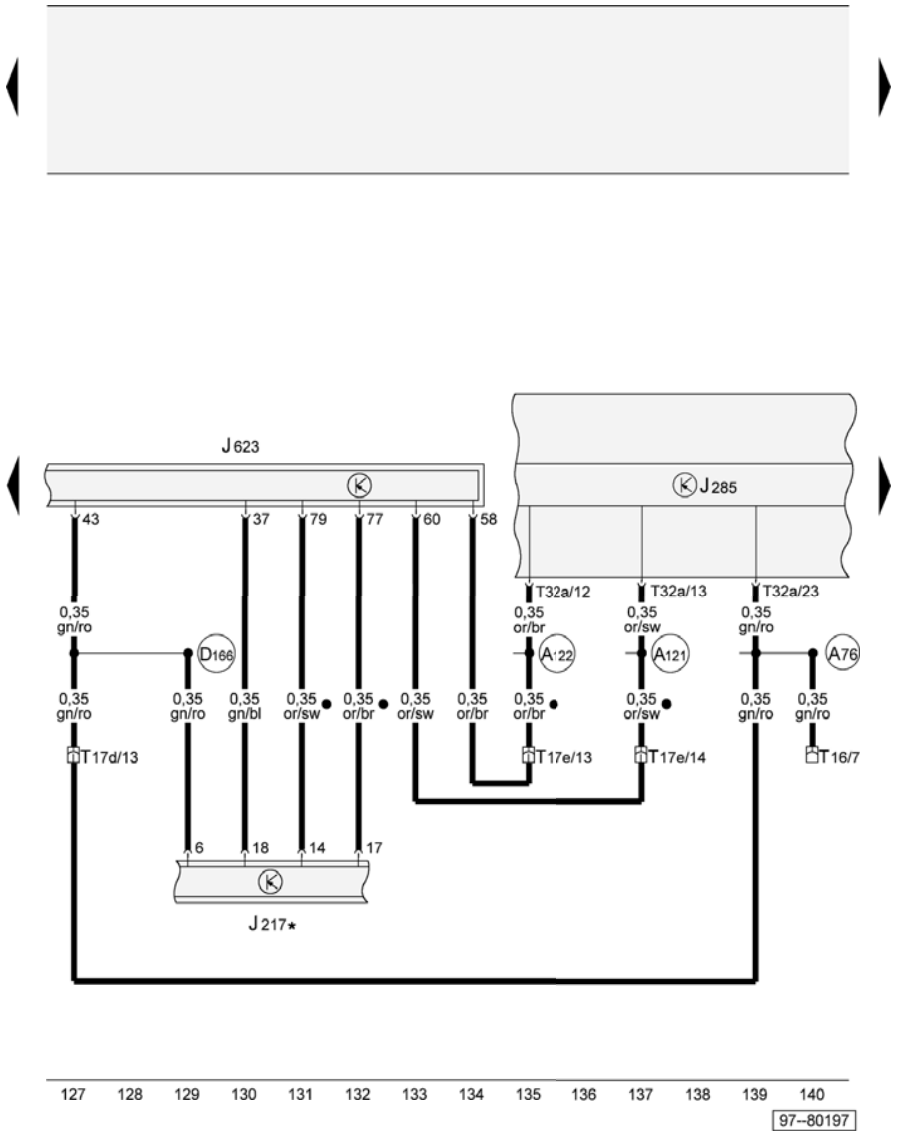
Engine control unit, ignition coils

J623	-	Engine control unit
N70	-	Ignition coil 1 with output stage
N127	-	Ignition coil 2 with output stage
N291	-	Ignition coil 3 with output stage
N292	-	Ignition coil 4 with output stage
P	-	Spark plug connector
Q	-	Spark plugs
S102	-	Engine control unit fuse
18	-	Earth point on engine block
83	-	Earth connection 1, in front right wiring harness
D102	-	Connection 2, in engine compartment wiring harness

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Current Flow Diagram

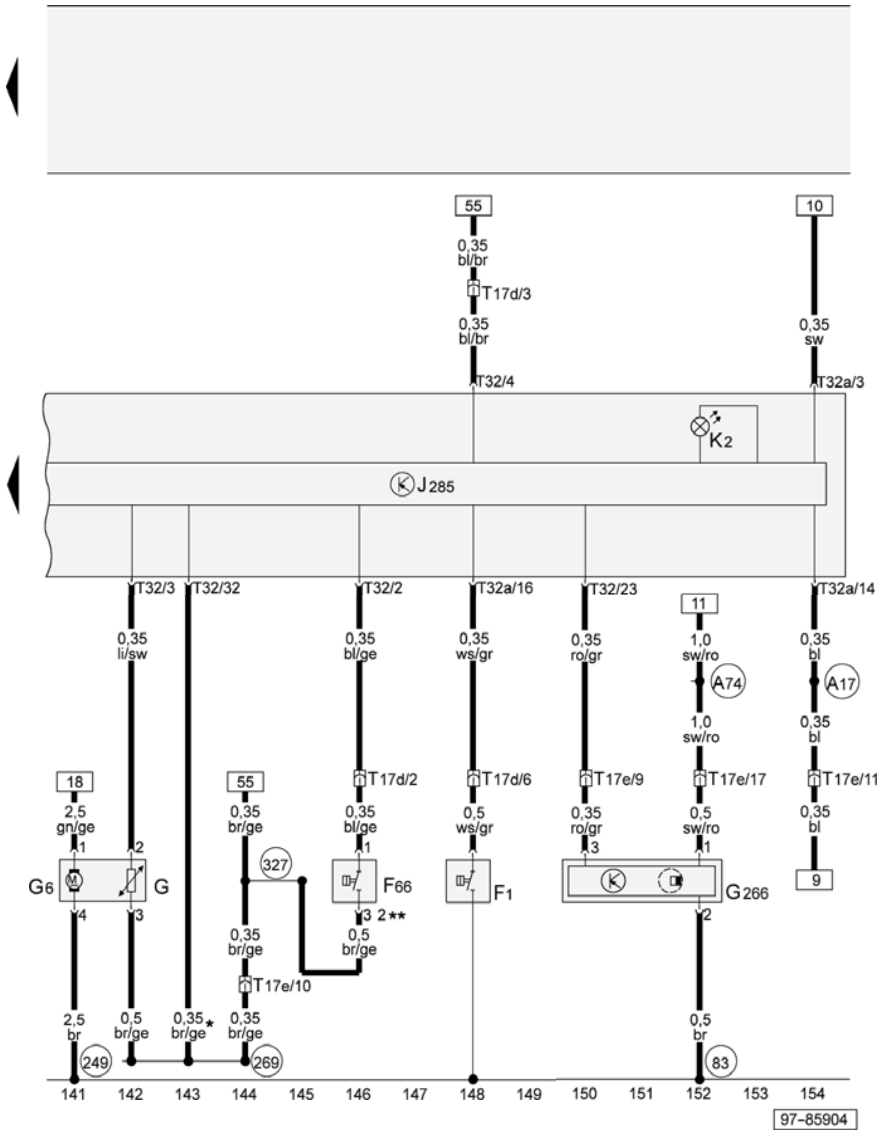
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Engine control unit, control unit in dash panel insert, automatic gearbox control unit

J217 - Automatic gearbox control unit
J285 - Control unit in dash panel insert
J623 - Engine control unit
T16 - 16-pin connector, black, diagnostic connector
T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
T32a - 32-pin connector, green, on dash panel insert
A76 - Connection (diagnosis wire K), in dash panel wiring harness
A121 - Connection (high bus), in dash panel wiring harness
A122 - Connection (low bus), in dash panel wiring harness
D166 - Connection (K-diagnosis wiring), in engine compartment wiring harness
* - for models with automatic gearbox (multitronic 01J / multitronic 0AN) only
● - Data bus wire (CAN bus)



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Control unit in dash panel insert, oil pressure switch, coolant shortage indicator switch, fuel gauge sender, oil level and oil temperature sender

F1 - Oil pressure switch
F66 - Coolant shortage indicator switch
G - Fuel gauge sender
G6 - Fuel system pressurisation pump
G266 - Oil level and oil temperature sender
J285 - Control unit in dash panel insert
K2 - Alternator warning lamp
T17d - 17-pin connector, red, coupling station on electronics box, plenum chamber
T17e - 17-pin connector, white, coupling station on electronics box, plenum chamber
T32 - 32-pin connector, blue, on dash panel insert
T32a - 32-pin connector, green, on dash panel insert
83 - Earth connection 1, in front right wiring harness
249 - Earth connection 2, in interior wiring harness
269 - Earth connection (sender earth) 1, in dash panel wiring harness
327 - Earth connection (sender earth), in engine compartment wiring harness
A17 - Connection (61), in dash panel wiring harness
A74 - Connection (15a, fuse 5), in dash panel wiring harness
* - output for signal earth
** - applicable from model year 2006