Sharan Current Flow Diagram

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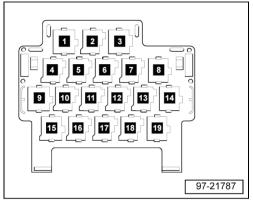
Edition 12.2004

1.8 I/110 kW Motronic, engine code AWC

from November 2002

For alternatives to relay and fuse positions as well as multi-pin connector wiring - see "Fitting locations" section

Relay locations on the 19 position upper relay carrier behind the multi-function unit:



5 - J293 - Radiator fan control unit (430)



Note:

The number in brackets behind the part designation denotes the control number on the housing.

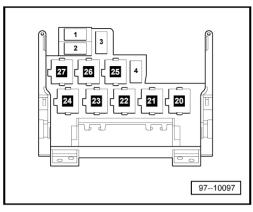
Fuse colours

- 30 A green
- 25 A white
- 20 A yellow
- 15 A blue
- 10 A red
- 7,5 A brown
- 5 A beige
- 3 A purple

For alternatives to relay and fuse positions as well as multi-pin connector wiring - see "Fitting locations" section

Relay locations on the 8 position lower relay carrier behind the multi-function unit:

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- 21 J17 Fuel pump relay (410)
- 22 J299 Secondary air pump relay (100)
- 25 J271 Motronic current supply relay (167)



Note:

The number in brackets behind the part designation denotes the control number on the housing.

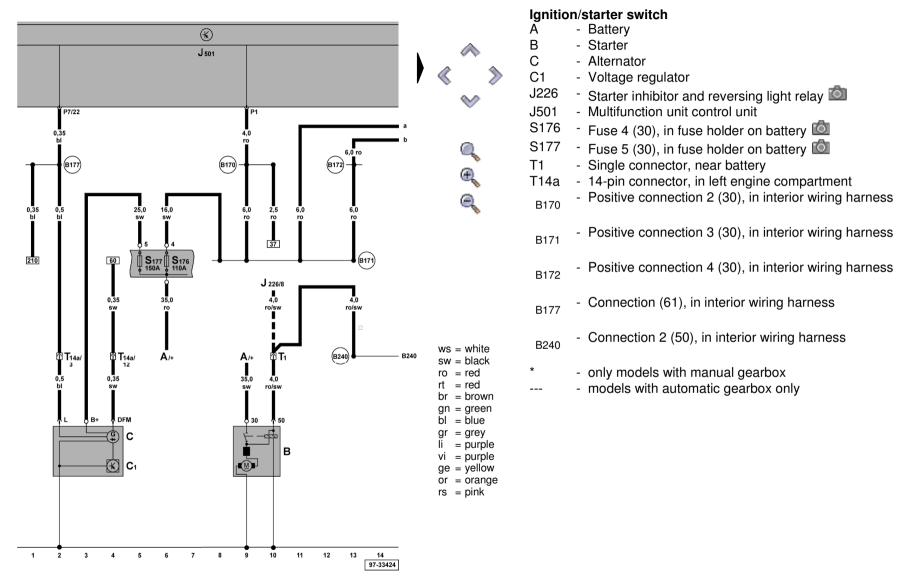
Fuse colours

- 30 A green
- 25 A white
- 20 A yellow
- 15 A blue
- 10 A red
- 7,5 A brown
- 5 A beige
- 3 A purple

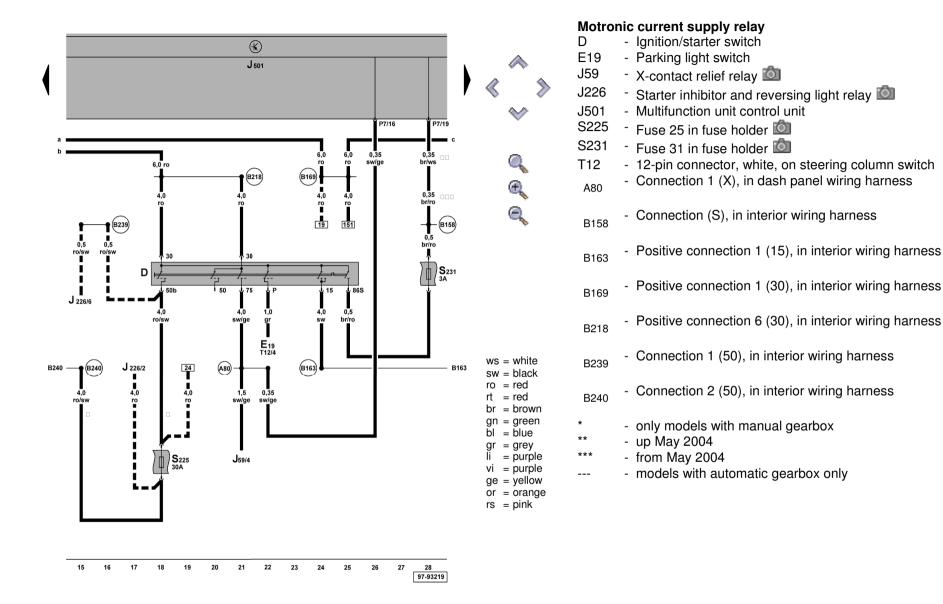
Sharan

Current Flow Diagram

No. 93/2

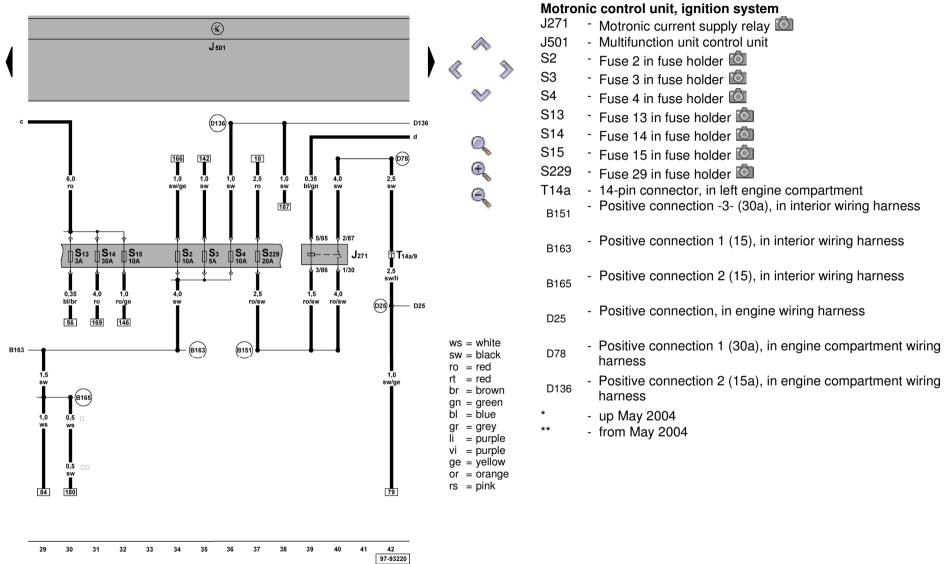


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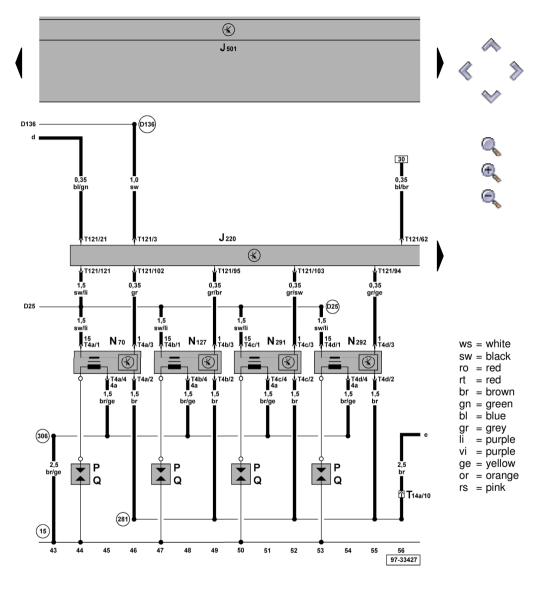


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Sharan Current Flow Diagram No. 93 / 4



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Motronic control unit

J220 - Motronic control unit, in left engine compartment

J501 - Multifunction unit 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
T4a - 4-pin connector
T4b - 4-pin connector
T4c - 4-pin connector
T4d - 4-pin connector

T14a - 14-pin connector, in left engine compartment

T121 - 121-pin connector

- Earth point, on cylinder head

- Earth connection 1, in engine wiring harness

 $_{\rm 306}$ $\,$ - Earth connection (ignition coils), in engine harness

- Positive connection, in engine wiring harness

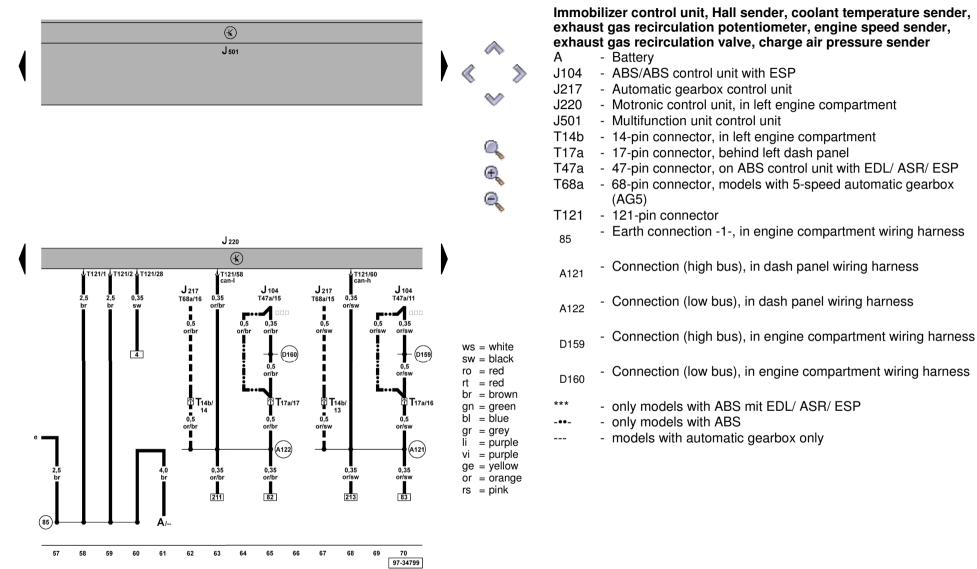
- Positive connection 2 (15a), in engine compartment wiring harness

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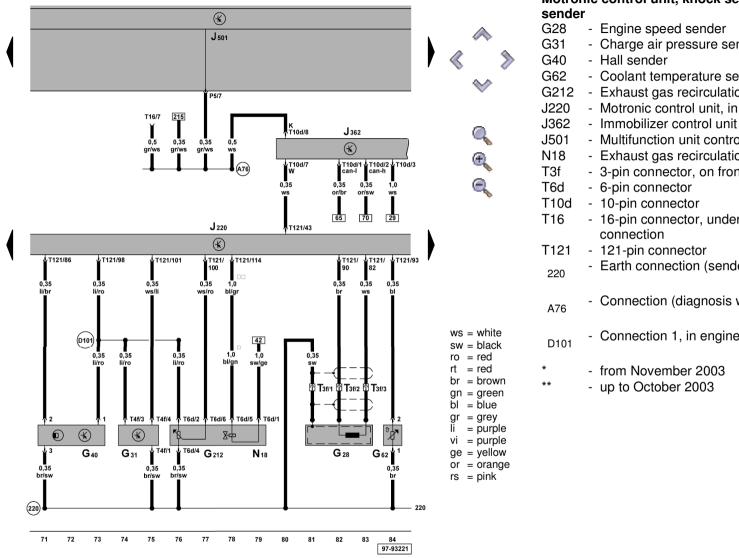
Sharan

Current Flow Diagram

No. 93/6



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Motronic control unit, knock sensors, intake air temperature

Engine speed sender

- Charge air pressure sender

- Coolant temperature sender

- Exhaust gas recirculation potentiometer

- Motronic control unit, in left engine compartment

- Multifunction unit control unit

- Exhaust gas recirculation valve

- 3-pin connector, on front of engine

- 16-pin connector, under dash panel, self-diagnosis

- Earth connection (sender earth), in engine wiring harness

- Connection (diagnosis wire K), in dash panel wiring harness

- Connection 1, in engine compartment wiring harness

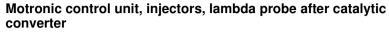
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Sharan

Current Flow Diagram

No. 93/8





- Intake air temperature sender G42

G61 - Knock sensor I G66 - Knock sensor II

J220 - Motronic control unit, in left engine compartment

J501 - Multifunction unit control unit

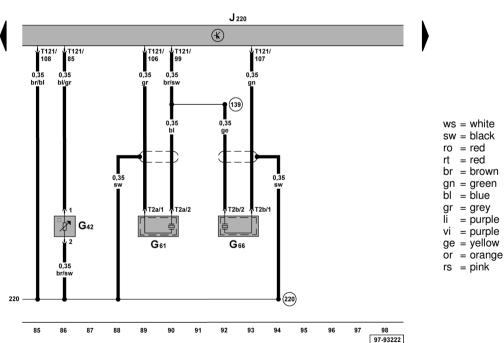
T2a - 2-pin connector T2b - 2-pin connector

T3f - 3-pin connector, on front of engine

T121 - 121-pin connector

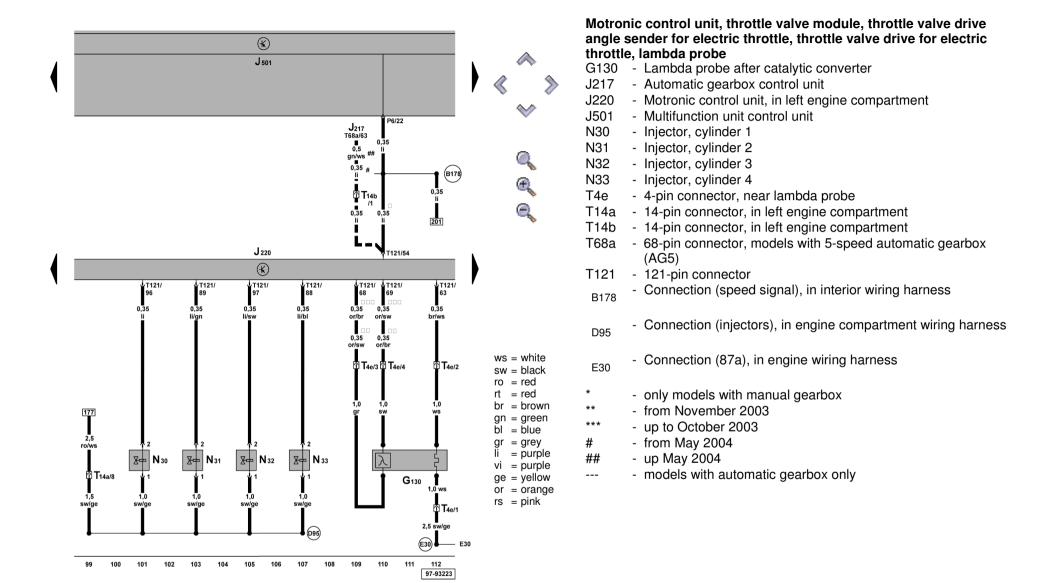
- Earth connection (sender earth), in Motronic wiring harness 139

- Earth connection (sender earth), in engine wiring harness 220



br = brown gn = green = blue = grey = purple vi = purple ge = yellow

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Sharan

Current Flow Diagram

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Motronic control unit, air mass meter, accelerator position sender, charge pressure control solenoid valve, active charcoal filter system solenoid valve

G39 - Lambda probe

G186 - Throttle valve drive (electric power control)

G187 - Throttle valve drive angle sender 1 (electric power control)
 G188 - Throttle valve drive angle sender 2 (electric power control)

J220 - Motronic control unit, in left engine compartment

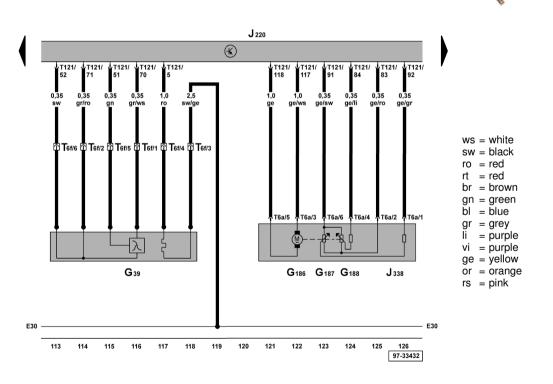
J338 - Throttle valve module

J501 - Multifunction unit control unit

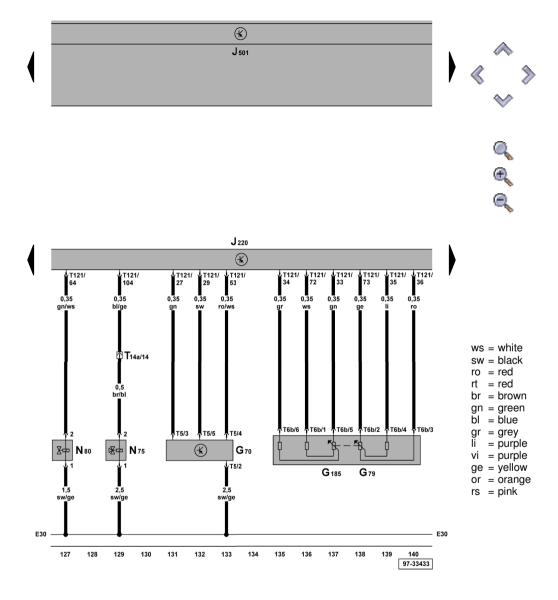
T6a - 6-pin connector

T6f - 6-pin connector, near catalytic converter

T121 - 121-pin connector



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Motronic control unit, secondary air pump relay, secondary air pump motor, clutch pedal switch, cruise control system brake pedal switch, brake light switch

G70 - Air mass meter

G79 - Accelerator position senderG185 - Accelerator position sender -2-

J220 - Motronic control unit, in left engine compartment

J501 - Multifunction unit control unit

N75 - Charge pressure control solenoid valve

N80 - Activated charcoal filter system solenoid valve 1

T5 - 5-pin connector T6b - 6-pin connector

T14a - 14-pin connector, in left engine compartment

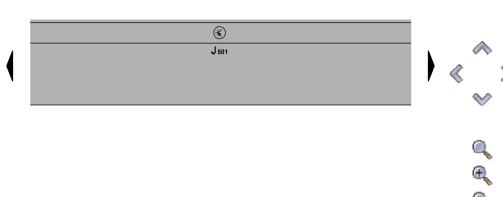
T121 - 121-pin connector

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Sharan

Current Flow Diagram

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Motronic control unit, radiator fan control unit, cruise control system switch (GND),fan run-on thermal switch, continued coolant circulation pump

F - Brake light switch F36 - Clutch pedal switch*

F47 - Cruise control system brake pedal switch

J220 - Motronic control unit, in left engine compartment

J299 - Secondary air pump relay 1
J501 - Multifunction unit control unit

S130 - Secondary air pump fuse, lower relay carrier the multi-

function unit

T2c - 2-pin connector, in left engine compartment

T4t - 4-pin connector T121 - 121-pin connector

E30

V101 - Secondary air pump motor

Earth point, on right in engine compartment

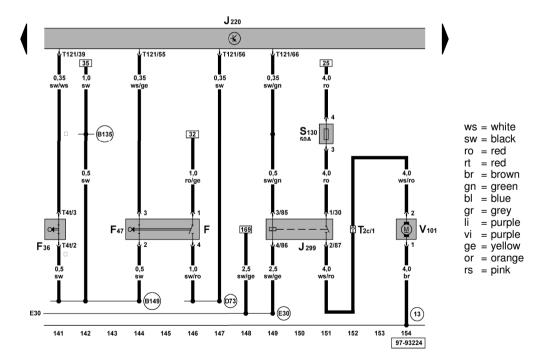
B135 - Connection 1 (15a), in interior wiring harness

B149 - Connection 2 (15a), in interior wiring harness

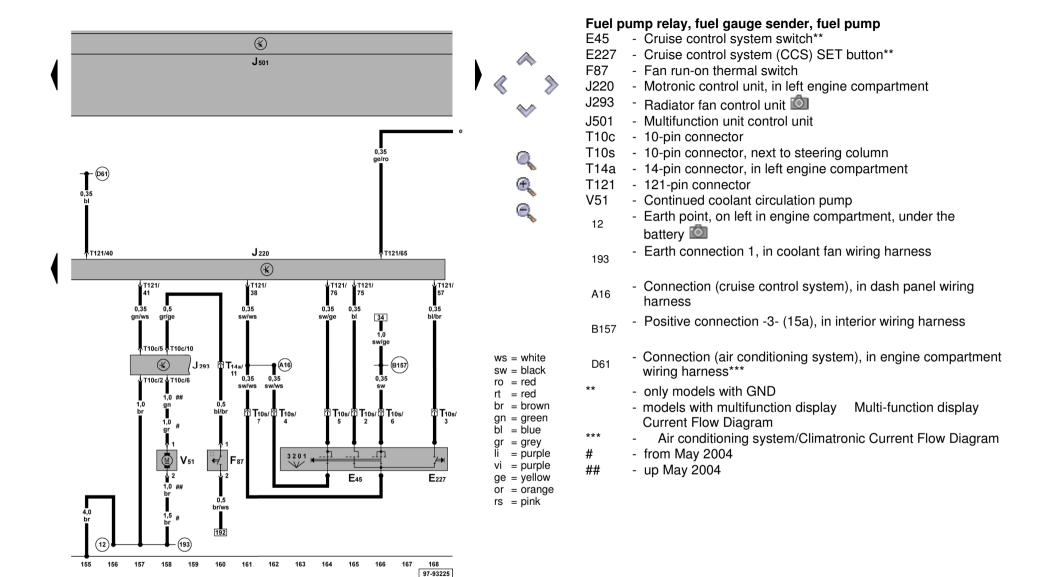
- Positive connection (54), in engine compartment wiring harness

- Connection (87a), in engine wiring harness

only models with manual gearbox



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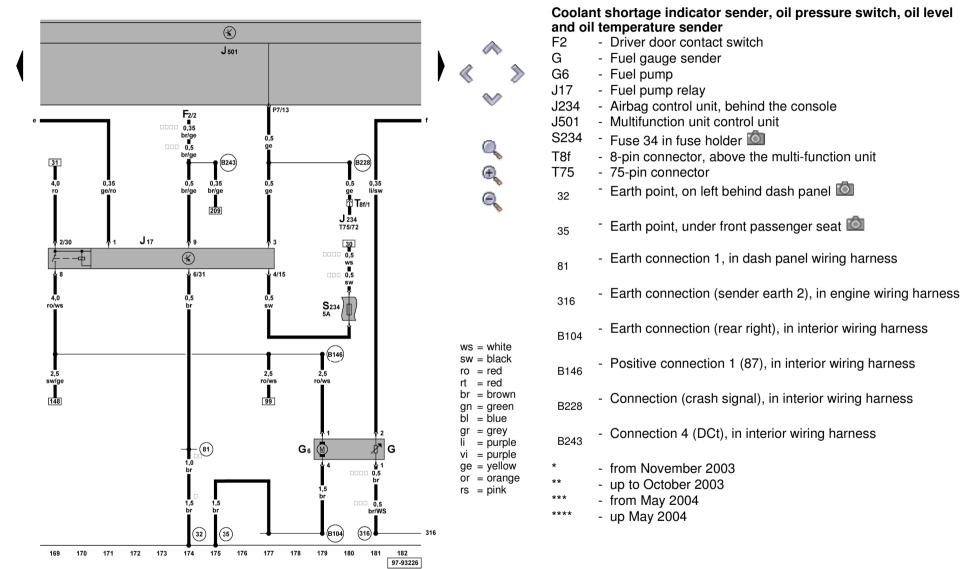


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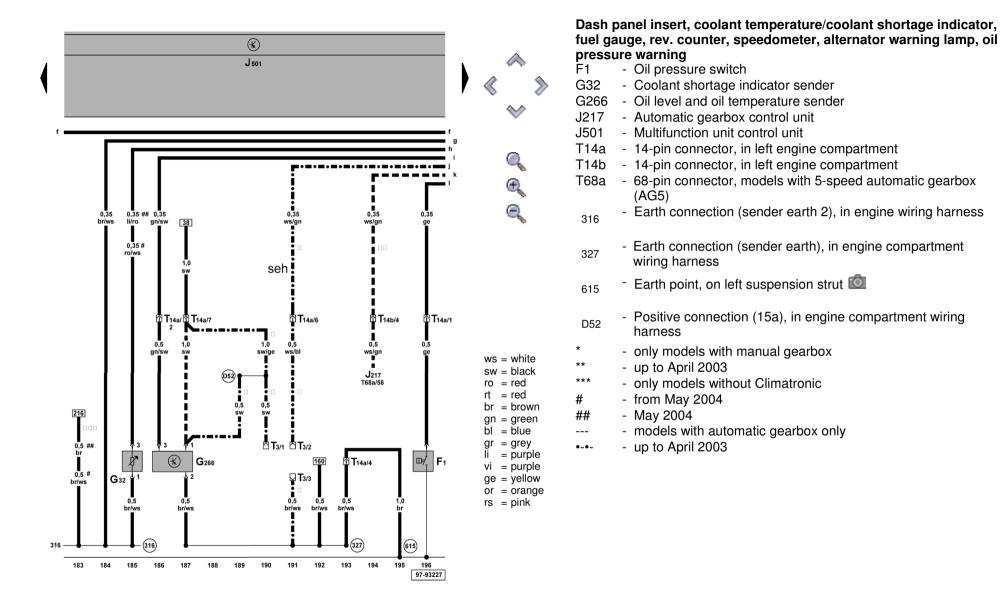
Sharan

Current Flow Diagram

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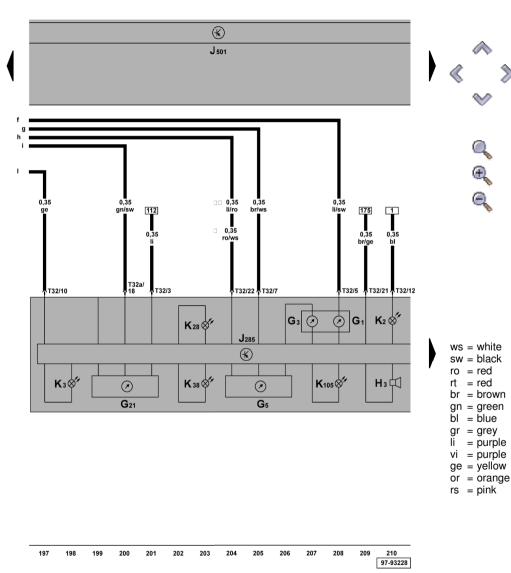


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Sharan

Current Flow Diagram

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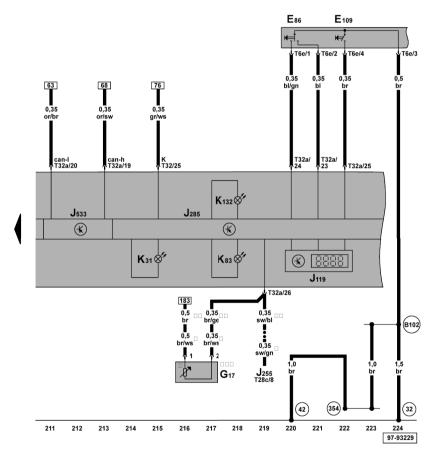


Dash panel insert, cruise control system warning lamp, multifunction display, ambient temperature indicator, electronic power control fault lamp, exhaust emissions warning lamp

- Fuel gauge G1
- G3 - Coolant temperature gauge
- G5 - Rev. counter G21 - Speedometer
- Н3 - Warning buzzer
- J285 - Control unit with display in dash panel insert
- J501 - Multifunction unit control unit - Alternator warning lamp K2 K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K38 - Oil level warning lamp K105 - Reserve fuel warning lamp T32 - 32-pin connector, blue T32a - 32-pin connector, green
- from May 2004 ** - up May 2004
- models with automatic gearbox only
- up to April 2003 ---

Sharan **Current Flow Diagram** WI-XML Page 18 of 18









ws = white

sw = black ro = red

rt = red

br = brown

qn = qreen

gr = grey

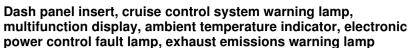
vi = purple

ge = yellow or = orange

rs = pink

= blue

= purple



E86 - Multifunction display call-up button

E109 - Multifunction display memory switch

G17 - Ambient temperature sensor, see Climatronic Current Flow Diagram

J119 - Multifunction display

J255 - Climatronic control unit

J285 - Control unit with display in dash panel insert

J501 - Multifunction unit control unit

J533 - Data bus diagnostic interface, in dash panel insert

K31 - Cruise control system warning lamp
 K83 - Exhaust emissions warning lamp
 K132 - Electric power control fault lamp

T6e - 6-pin connector
T28c - 28-pin connector
T32 - 32-pin connector, blue
T32a - 32-pin connector, green

132a - 32-pin connector, green

⁻ Earth point, on left behind dash panel

⁻ Earth point, on top end of steering column 🔯

- Earth connection 6, in dash panel wiring harness

B₁₀₂ - Earth connection, in front left interior wiring harness

* - from May 2004

• up May 2004

-••- only models without Climatronic only models with Climatronic