

Current Flow Diagram

Edition 04.1999

From August 1998

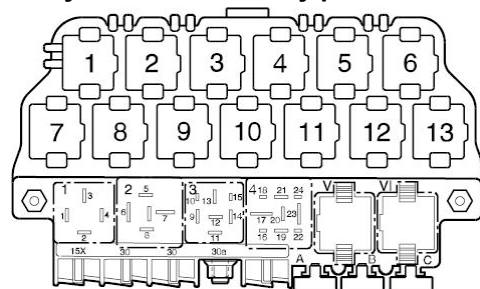
From October 1998

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

Relay locations on 13 position additional

relay carrier, above relay plate:

Relay locations on relay plate:



97--14163

2 - X contact relief relay (18)

4 - Fuel pump relay (409)



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

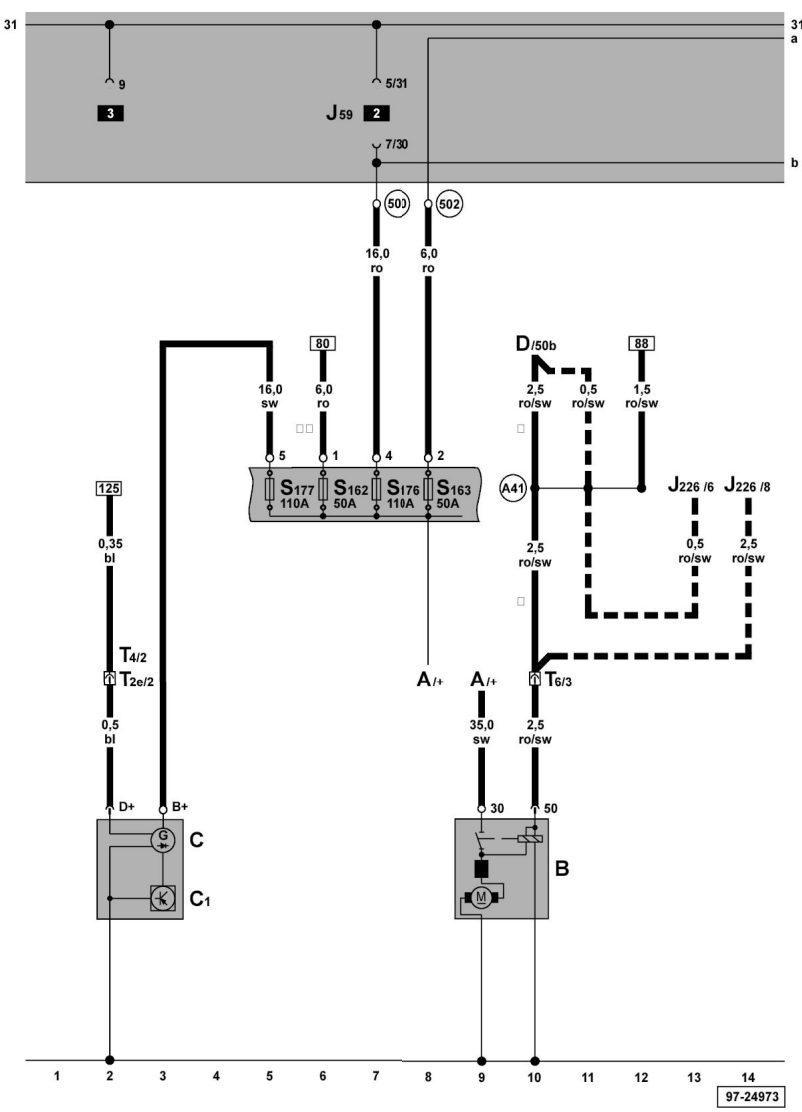
5 A - beige

3 A - lilac

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Current Flow Diagram

No. 55 / 2



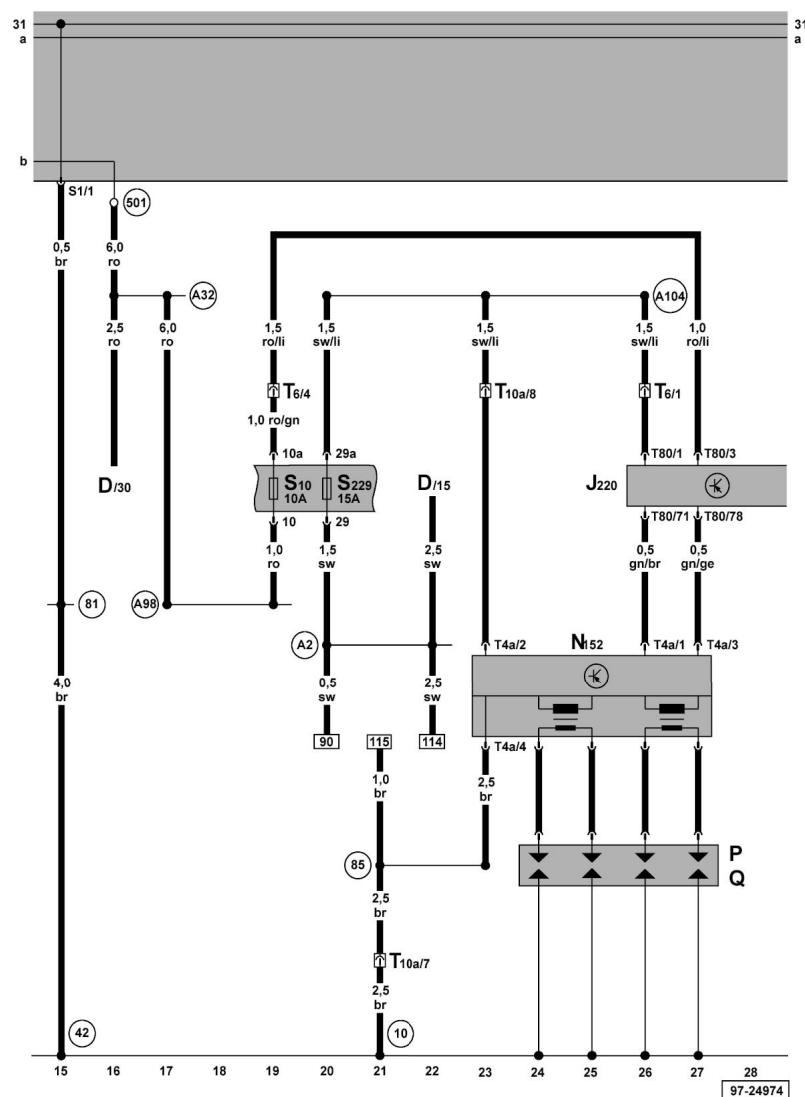
Alternator, starter

- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J59 - X contact relief relay
- J226 - Starter inhibitor and reversing light relay, on 13 position additional relay carrier
- S162 - Fuse -1- (30) in battery fuse holder
- S163 - Fuse -2- (30) in battery fuse holder
- S176 - Fuse -4- (30) in battery fuse holder
- S177 - Fuse -5- (30) in battery fuse holder
- T2e - 2-pin connector, near starter (on vehicles not fitted with air conditioner)
- T4 - 4-pin connector, near starter (on vehicles fitted with air conditioner)
- T6 - 6-pin connector, brown, in protective housing for connectors, left in plenum chamber
- 500 - Screw connection -1- (30), on relay plate
- 502 - Screw connection -1- (30a), on relay plate
- A41 - Positive (+) connection (50), in dash panel wiring harness
- * - For vehicles with manual gearbox only
- ** - Not for vehicles with engine codes APK
- - For vehicles with automatic gearbox only

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Current Flow Diagram

No. 55 / 3



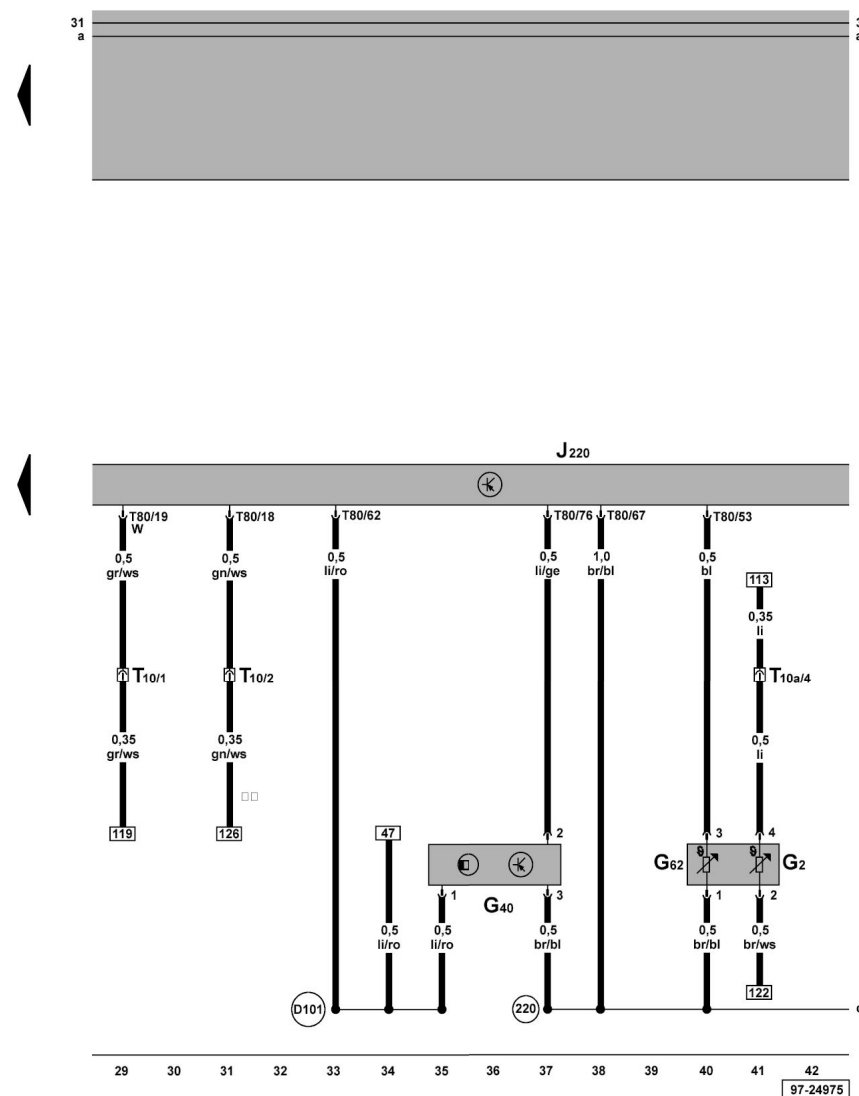
Motronic control unit, ignition system

- D - Ignition/starter switch
- J220 - Motronic control unit, centre in plenum chamber
- N152 - Ignition transformer
- P - Spark plug connector
- Q - Flame plug
- S10 - Fuse in relay plate fuse box
- S229 - Fuse in fuse holder
- T4a - 4-pin connector
- T6 - 6-pin connector, brown, in protective housing for connectors, left in plenum chamber
- T10a - 10-pin connector, in cable channel left in engine compartment
- T80 - 80-pin connector
- 10 - Earth point, in plenum chamber
- 42 - Earth point, next to steering column
- 81 - Earth connection -1-, in dash panel wiring harness
- 85 - Earth connection -1-, in engine compartment wiring harness
- 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
- A98 - Positive connection -4-(30), in dash panel wiring harness
- A104 - Positive connection -2- (15), in dash panel wiring harness

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Current Flow Diagram

No. 55 / 4



Motronic control unit, coolant temperature sender, Hall sender

- G2 - Coolant temperature sender
- G40 - Hall sender
- G62 - Coolant temperature sender
- J220 - Motronic control unit, centre in plenum chamber
- T10 - 10-pin connector, orange, in protective housing for connectors, left in plenum chamber
- T10a - 10-pin connector, in cable channel left in engine compartment
- T80 - 80-pin connector
- 220 - Earth connection (sender earth), in engine wiring harness
- D101 - Connection -1-, in engine compartment wiring harness
- ** - Fuel consumption signal from engine control unit, for MFI only

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Current Flow Diagram

No. 55 / 5

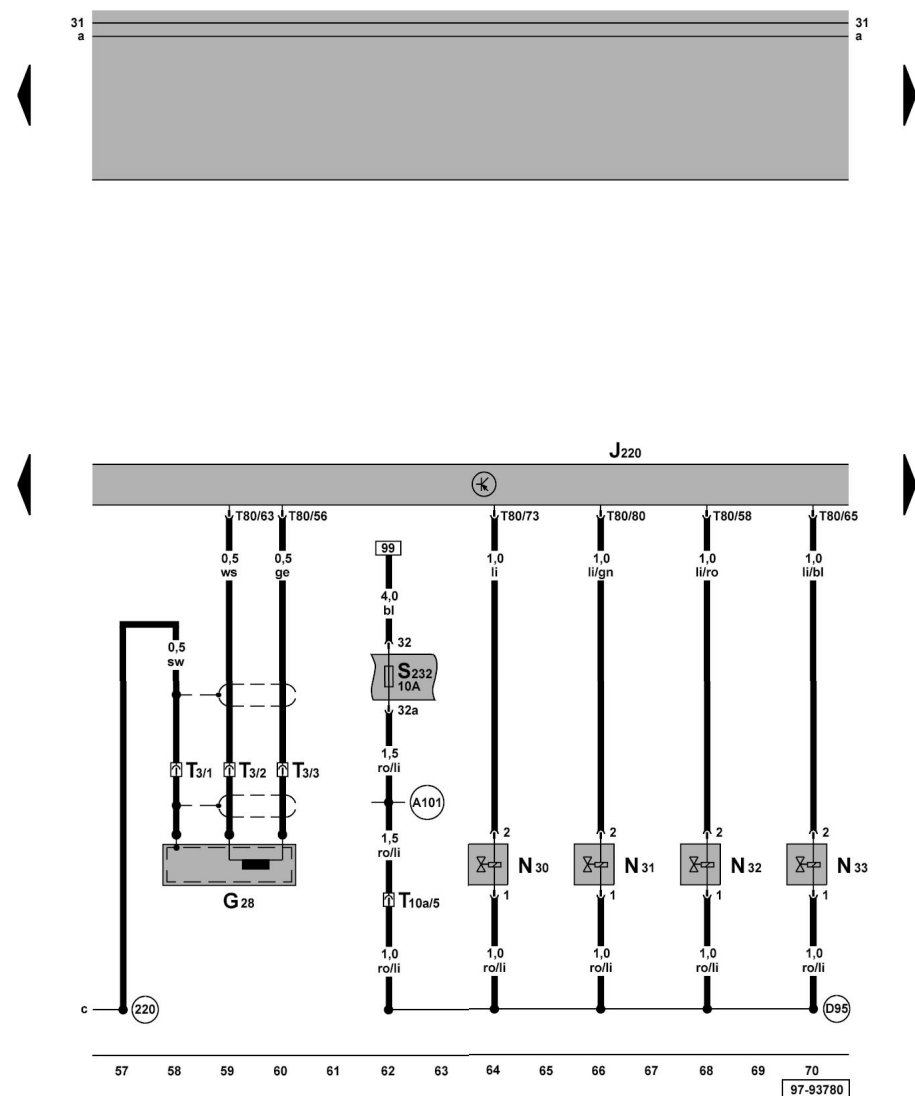


- F60 - Idling switch
- G61 - Knock sensor I
- G66 - Knock sensor II
- G69 - Throttle valve potentiometer
- G88 - Throttle valve positioner potentiometer
- J220 - Motronic control unit, centre in plenum chamber
- J338 - Throttle valve control unit
- T2 - 2-pin connector, rear in engine compartment
- T2a - 2-pin connector, front in engine compartment
- T8 - 8-pin connector
- T80 - 80-pin connector
- V60 - Throttle valve positioner
- * - Compressor switch off
- ** - Air conditioner readiness connection

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Current Flow Diagram

No. 55 / 6



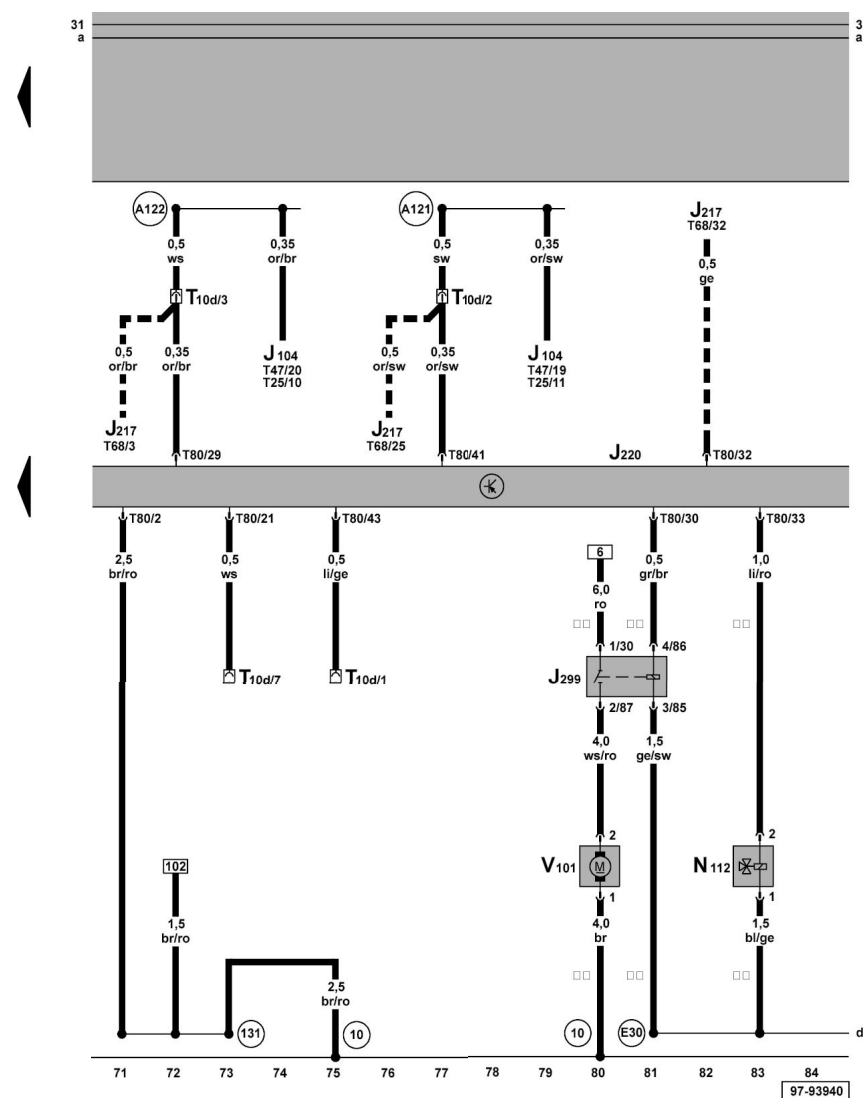
Motronic control unit, engine speed sender, injectors

- G28 - Engine speed sender
- J220 - Motronic control unit, centre in plenum chamber
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- S232 - Fuse in fuse holder
- T3 - 3-pin connector, near intake manifold
- T10a - 10-pin connector, in cable channel left in engine compartment
- T80 - 80-pin connector
- 220 - Earth connection (sender earth), in engine wiring harness
- A101 - Connection -3- (87), in dash panel wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness

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Current Flow Diagram

No. 55 / 7



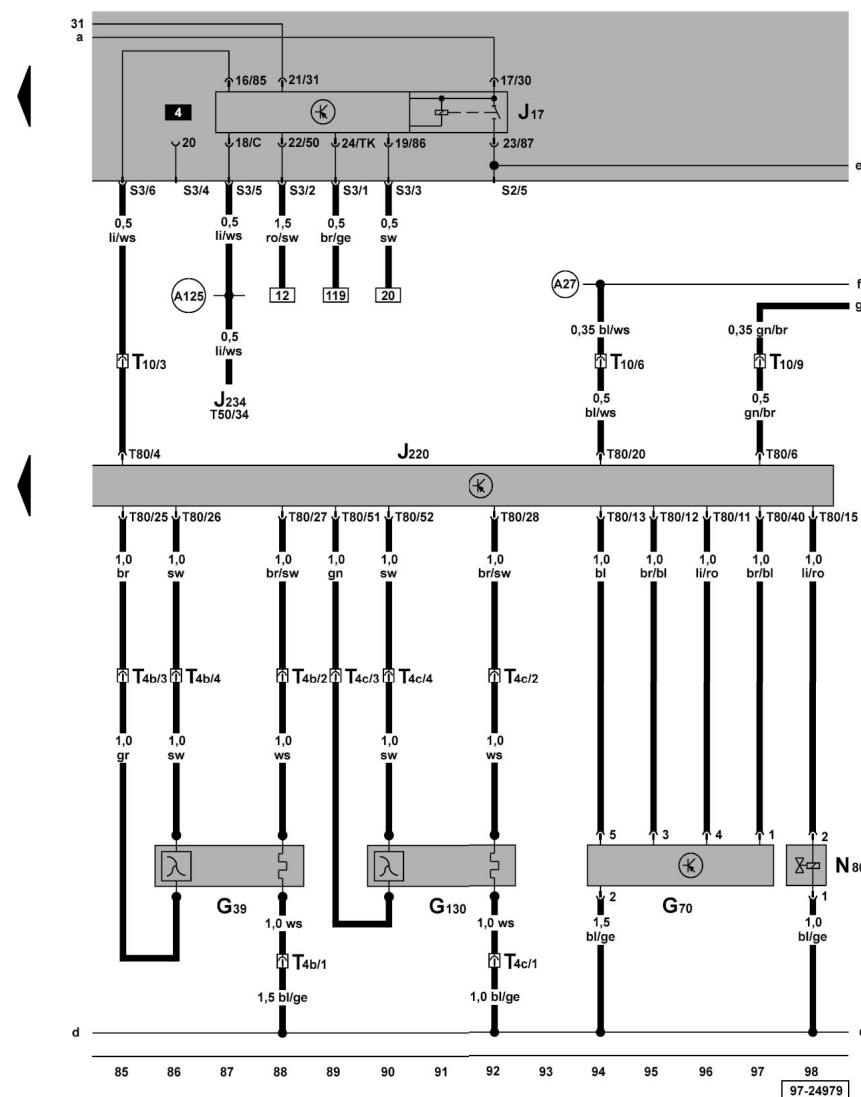
Motronic control unit, secondary air pump motor

- J104 - ABS with EDL control unit, left in engine compartment
- J217 - Automatic gearbox control unit
- J220 - Motronic control unit, centre in plenum chamber
- J299 - Secondary air pump relay, in protective housing, left in engine compartment (control number 100)
- N112 - Secondary air inlet valve**
- T10d - 10-pin connector, green, in protective housing for connectors, left in plenum chamber
- T25 - 25-pin connector, on control unit for ABS/ABS with EDL
- T47 - 47-pin connector, control unit for ABS with EDL/TCS/ESP
- T68 - 68-pin connector
- T80 - 80-pin connector
- V101 - Secondary air pump motor**
- 10 - Earth point, in plenum chamber
- 131 - Earth connection -2-, in engine compartment wiring harness
- E30 - Connection (87a), in engine wiring harness
- A121 - Connection (high bus), in dash panel wiring harness
- A122 - Connection (low bus), in dash panel wiring harness
- ** - Not for vehicles with engine codes APK
- - For vehicles with automatic gearbox only

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Current Flow Diagram

No. 55 / 8



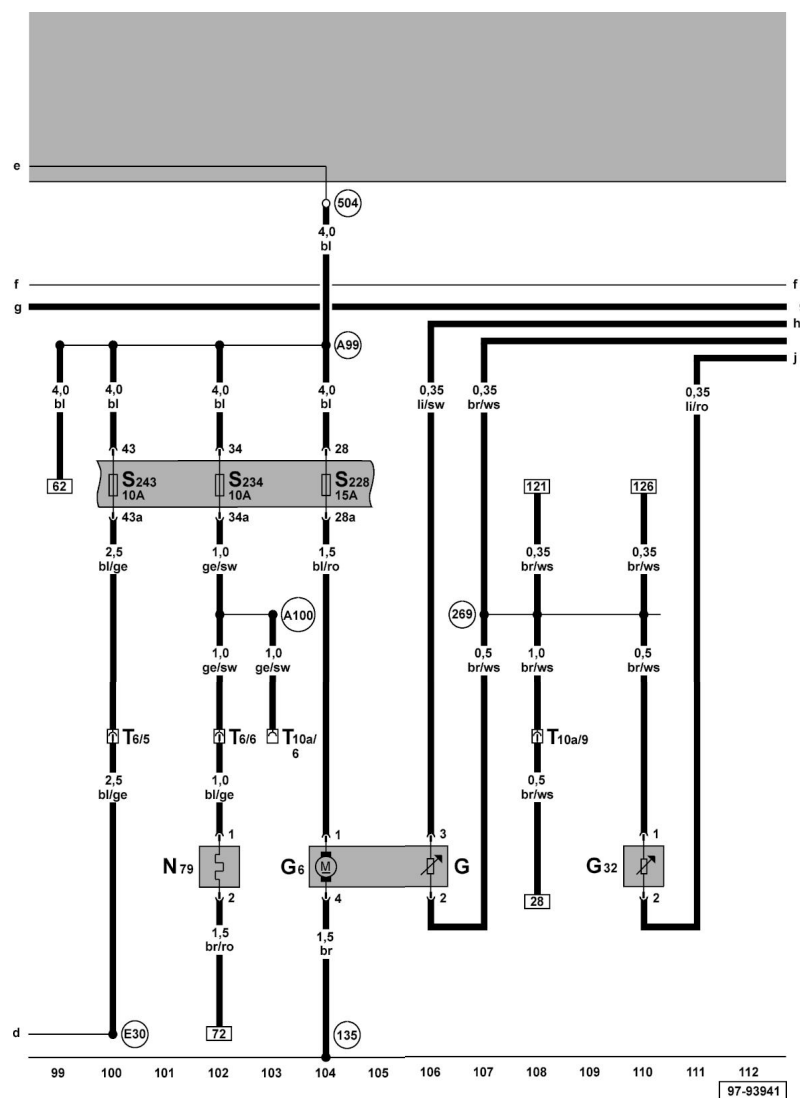
Motronic control unit, air mass meter, Lambda probe, activated charcoal filter system solenoid valve, fuel pump relay

- G39 - Lambda probe
- G70 - Air mass meter
- G130 - Lambda probe after catalyst
- J17 - Fuel pump relay
- J220 - Motronic control unit, centre in plenum chamber
- J234 - Airbag control unit, down behind console
- N80 - Activated charcoal filter system solenoid valve I
- T4b - 4-pin connector, in protective housing in rear of engine compartment
- T4c - 4-pin connector, in protective housing in rear of engine compartment
- T10 - 10-pin connector, orange, in protective housing for connectors, left in plenum chamber
- T50 - 50-pin connector
- T80 - 80-pin connector
- A27 - Connection (speed signal), in dash panel wiring harness
- A125 - Connection (crash signal), in dash panel wiring harness

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Current Flow Diagram

No. 55 / 9



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

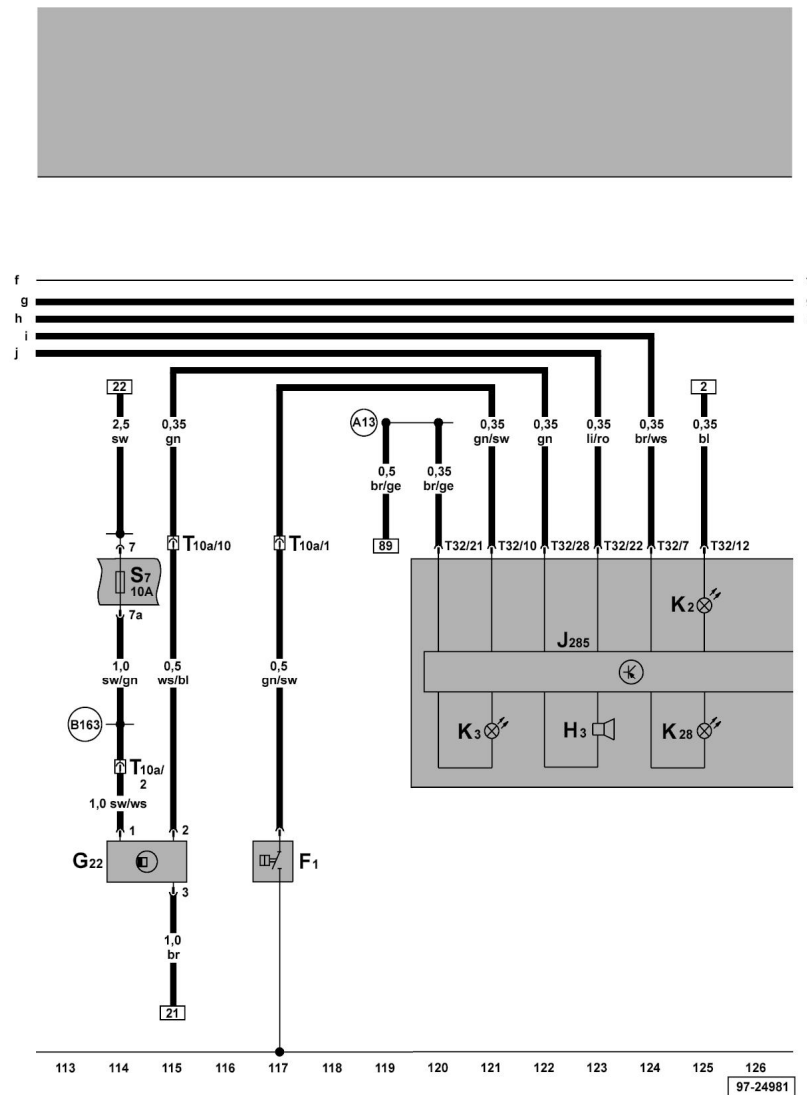
Fuel pump, fuel gauge sender, coolant shortage indicator sender, crankcase breather heater element

- G - Fuel gauge sender
- G6 - Fuel pump (pre-supply pump)
- G32 - Coolant shortage indicator sender
- N79 - Heater element (crankcase breather)
- S228 - Fuse in fuse holder
- S234 - Fuse in fuse holder
- S243 - Fuse in fuse holder
- T6 - 6-pin connector, brown, in protective housing for connectors, left in plenum chamber
- T10a - 10-pin connector, in cable channel left in engine compartment
- 135 - Earth connection -2-, in dash panel wiring harness
- 269 - Earth connection (sender earth) -1-, in dash panel wiring harness
- 504 - Screw connection -1- (87F), on relay plate
- A99 - Connection -1- (87), in dash panel wiring harness
- A100 - Connection -2- (87), in dash panel wiring harness
- E30 - Connection (87a), in engine wiring harness

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Current Flow Diagram

No. 55 / 10



Dash panel insert, optical and acoustic oil pressure warning, speedometer sender, coolant temperature/coolant shortage warning lamp, alternator warning lamp

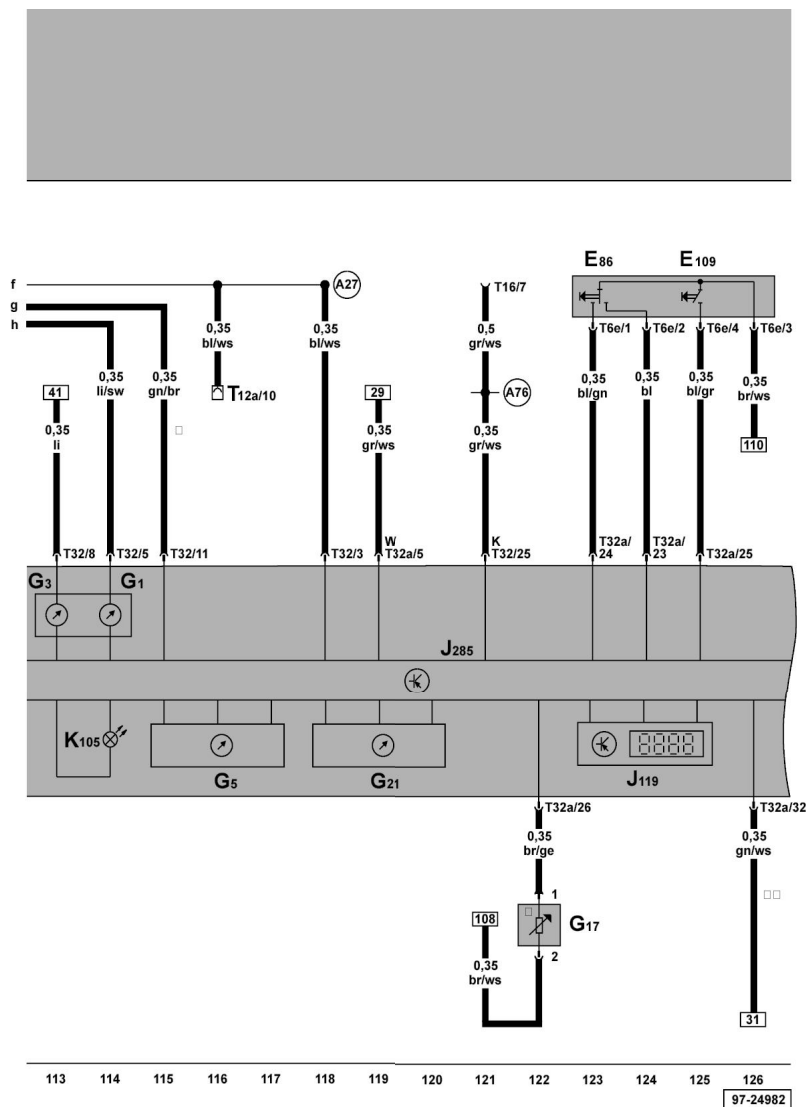
- F1 - Oil pressure switch
- G22 - Speedometer sender (Hall sender on gearbox)
- H3 - Buzzer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Warning lamp for coolant temperature/coolant shortage
- S7 - Fuse in relay plate fuse box
- T10a - 10-pin connector, in cable channel left in engine compartment
- T32 - 32-pin connector, blue
- A13 - Connection (door contact switch) , in dash panel wiring harness
- B163 - Positive connection -1- (15), in interior wiring harness

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

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Current Flow Diagram

No. 55 / 11



Dash panel insert, coolant temperature gauge, fuel gauge, rev. counter, speedometer, multi-function indicator, ambient temperature display

- E86 - Multi-function display call-up button
- E109 - Multi-function display, memory switch
- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G17 - Ambient temperature sensor
- G21 - Speedometer
- J119 - Multi-function display
- J285 - Control unit with display in dash panel insert
- K105 - Reserve fuel warning lamp
- T6e - 6-pin connector
- T12a - 12-pin connector, connection for Climatronic only
- T16 - 16-pin connector, in centre of dash panel, self-diagnosis connection
- T32 - 32-pin connector, blue
- T32a - 32-pin connector, green
- A27 - Connection (speed signal), in dash panel wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- * - Engine speed signal from engine control unit
- ** - Fuel consumption signal from engine control unit, for MFI only



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 or = orange
 rs = pink

113 114 115 116 117 118 119 120 121 122 123 124 125 126
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