

# Passat

## Current Flow Diagram

No. 47 / 1

Edition 05.2007

### **1.8 l/110 kW - Motronic, engine code AEB**

from August 1997

#### **Notes:**

For information concerning

- ◆ Relay and fuse assignment
- ◆ Multi-pin connectors
- ◆ Control units and relays
- ◆ Earth connections

→ List of Fitting Locations!

For information concerning

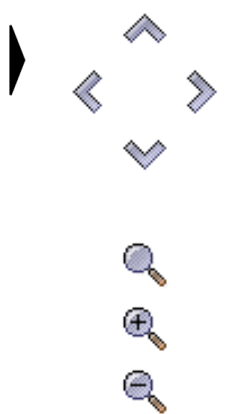
- ◆ Fault Finding Programs

→ Guided Fault Finding

# Passat

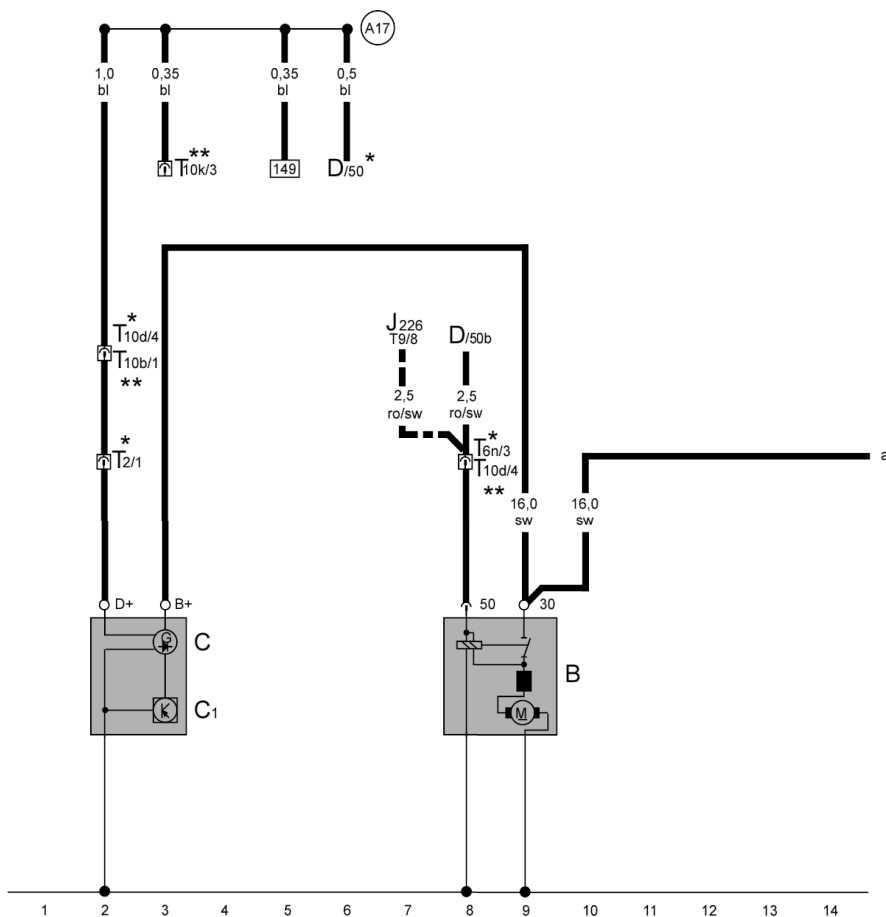
## Current Flow Diagram

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### Starter, alternator

- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J226 - Starter inhibitor and reversing light relay
- T2 - 2-pin connector, on right on engine block
- T6n - 6-pin connector, red, on protective housing for control units on left in engine compartment
- T9 - 9-pin connector, on starter inhibitor relay
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10d - 10-pin connector, brown, on protective housing for control units on left in engine compartment
- T10k - 10-pin connector, grey, left A-pillar coupling station
- A17 - Connection (61), in dash panel wiring harness
- \* - Up to July 1998
- \*\* - From August 1998

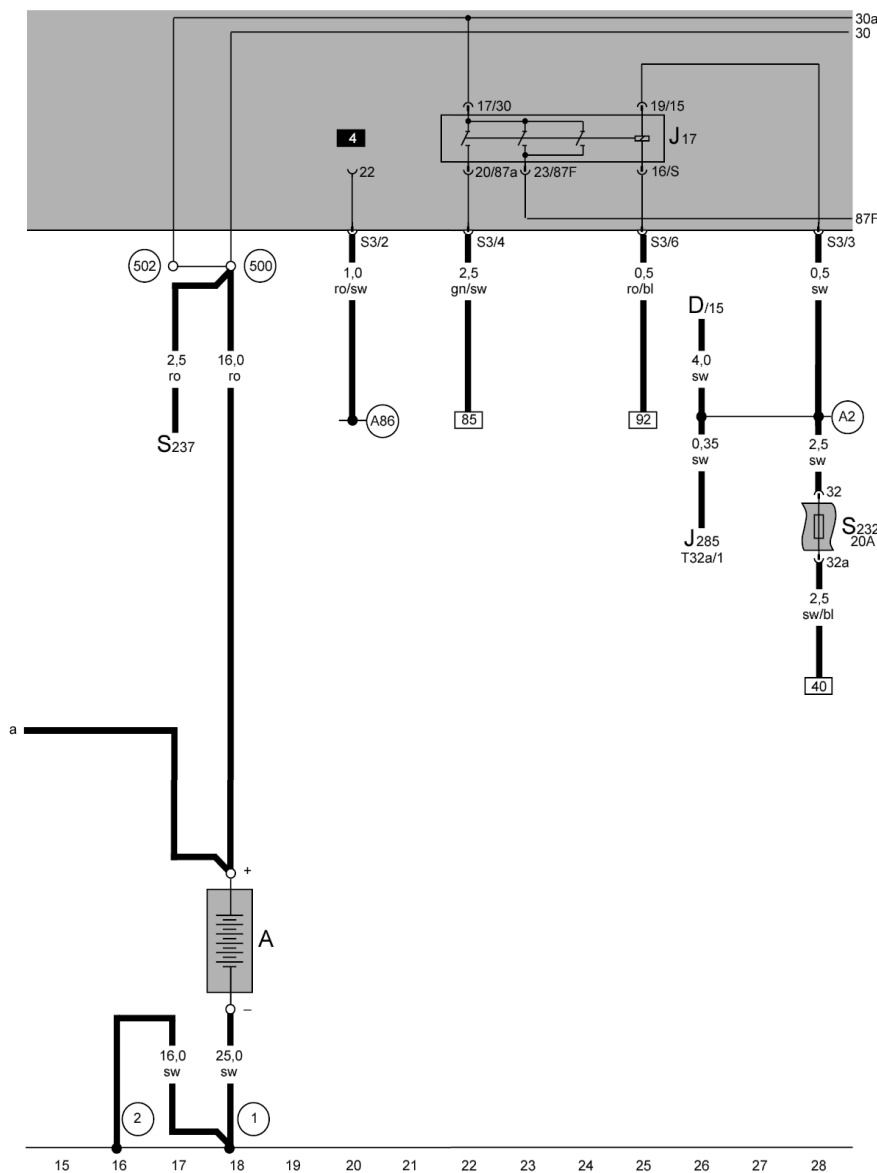


- ws = white
- sw = black
- ro = red
- rt = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- vi = purple
- ge = yellow
- or = orange
- rs = pink

# Passat

## Current Flow Diagram

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### Battery, fuel pump relay

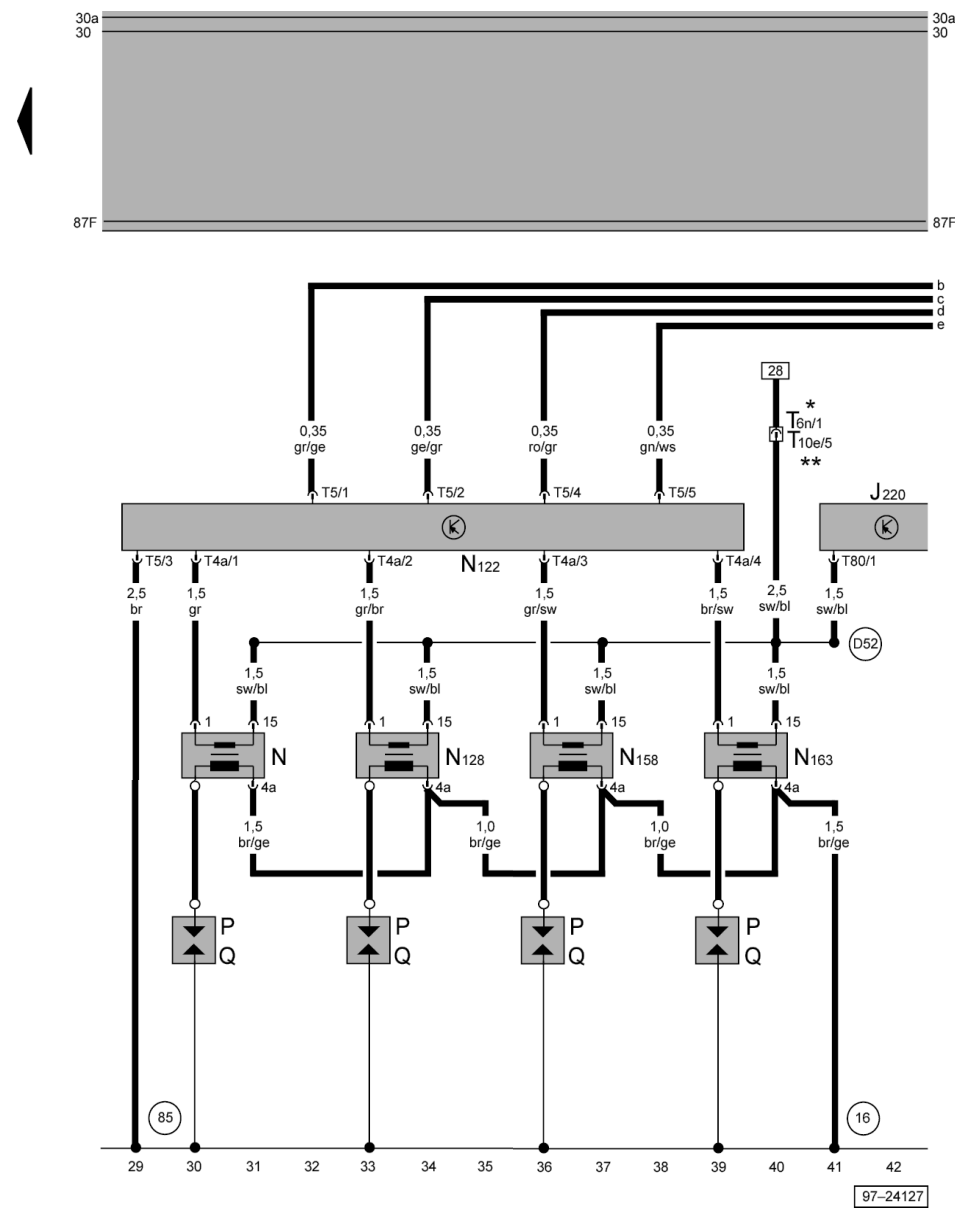
- A - Battery
- D - Ignition/starter switch
- J17 - Fuel pump relay, control number (208)
- J285 - Display control unit in dash panel insert
- S232 - Fuse 32 in fuse holder
- S237 - Fuse 37 in fuse holder
- T32a - 32-pin connector, blue, on dash panel insert
- 1 - Earth strap, battery body
- 2 - Earth strap, gearbox - body
- 500 - Screw connection 1 (30), on relay plate
- 502 - Screw connection 1 (30a), on relay plate
- A2 - Positive connection (15), in dash panel wiring harness
- A86 - Connection (50a), in dash panel 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

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## Current Flow Diagram

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### Motronic control unit, ignition system

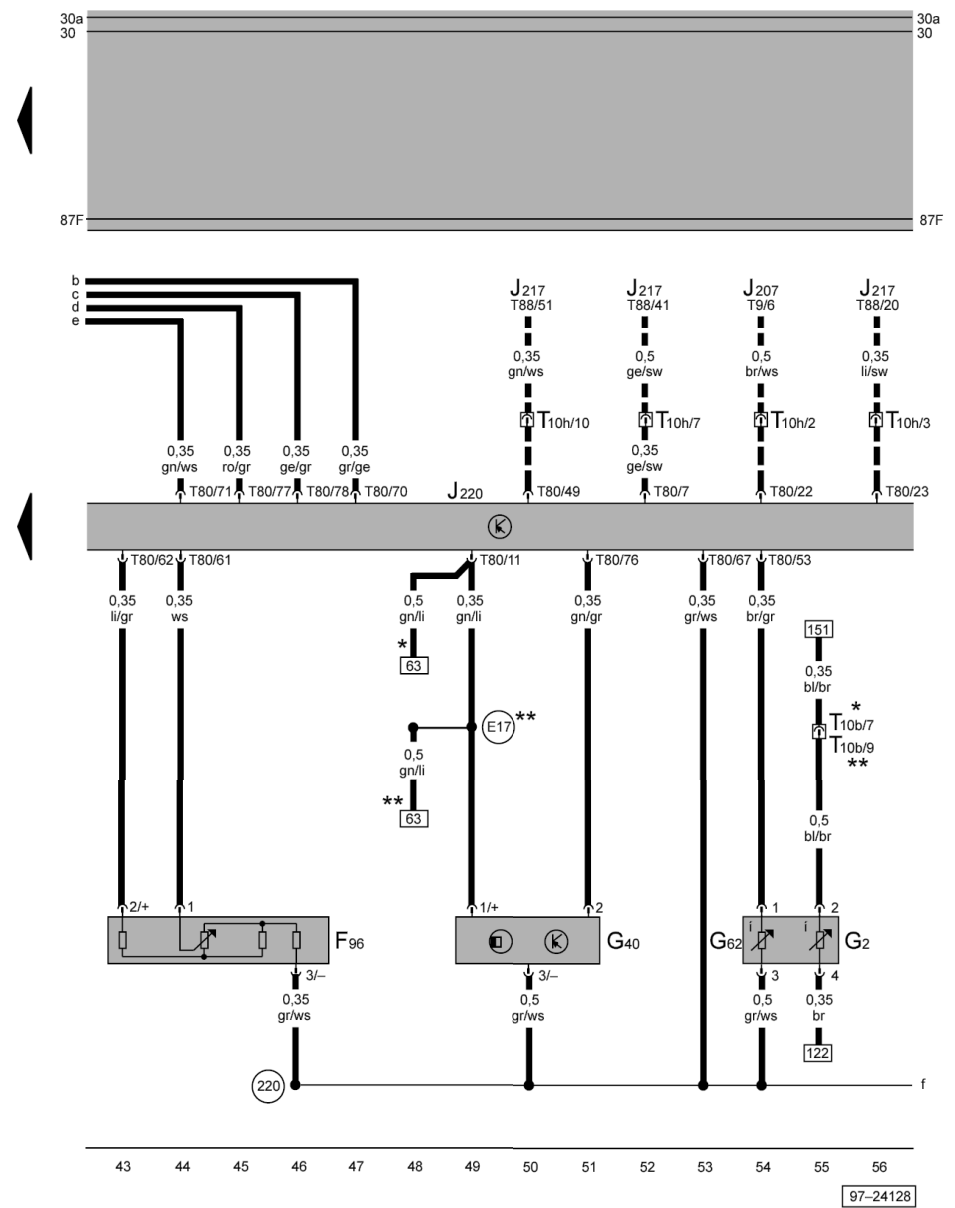
- J220 - Motronic control unit, in protective housing on left in engine compartment
- N - Ignition coil 1
- N122 - Output stage for ignition coils
- N128 - Ignition coil 2
- N158 - Ignition coil 3
- N163 - Ignition coil 4
- P - Spark plug connector
- Q - Spark plug
- T4a - 4-pin connector, black, on output stage for ignition coils
- T5 - 5-pin connector, black, on output stage for ignition coils
- T6n - 6-pin connector, red, on protective housing for control units on left in engine compartment
- T10e - 10-pin connector, orange, on protective housing for control units on left in engine compartment
- T80 - 80-pin connector, on Motronic control unit
- 16 - Earth point 1, on cylinder head cover
- 85 - Earth connection 1, in engine compartment wiring harness
- D52 - Positive connection (15a, ignition coils control unit), in engine compartment wiring harness
- \* - Up to July 1998
- \*\* - From August 1998

- 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

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## Current Flow Diagram

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### Motronic control unit, altitude sender, Hall sender, coolant temperature sender

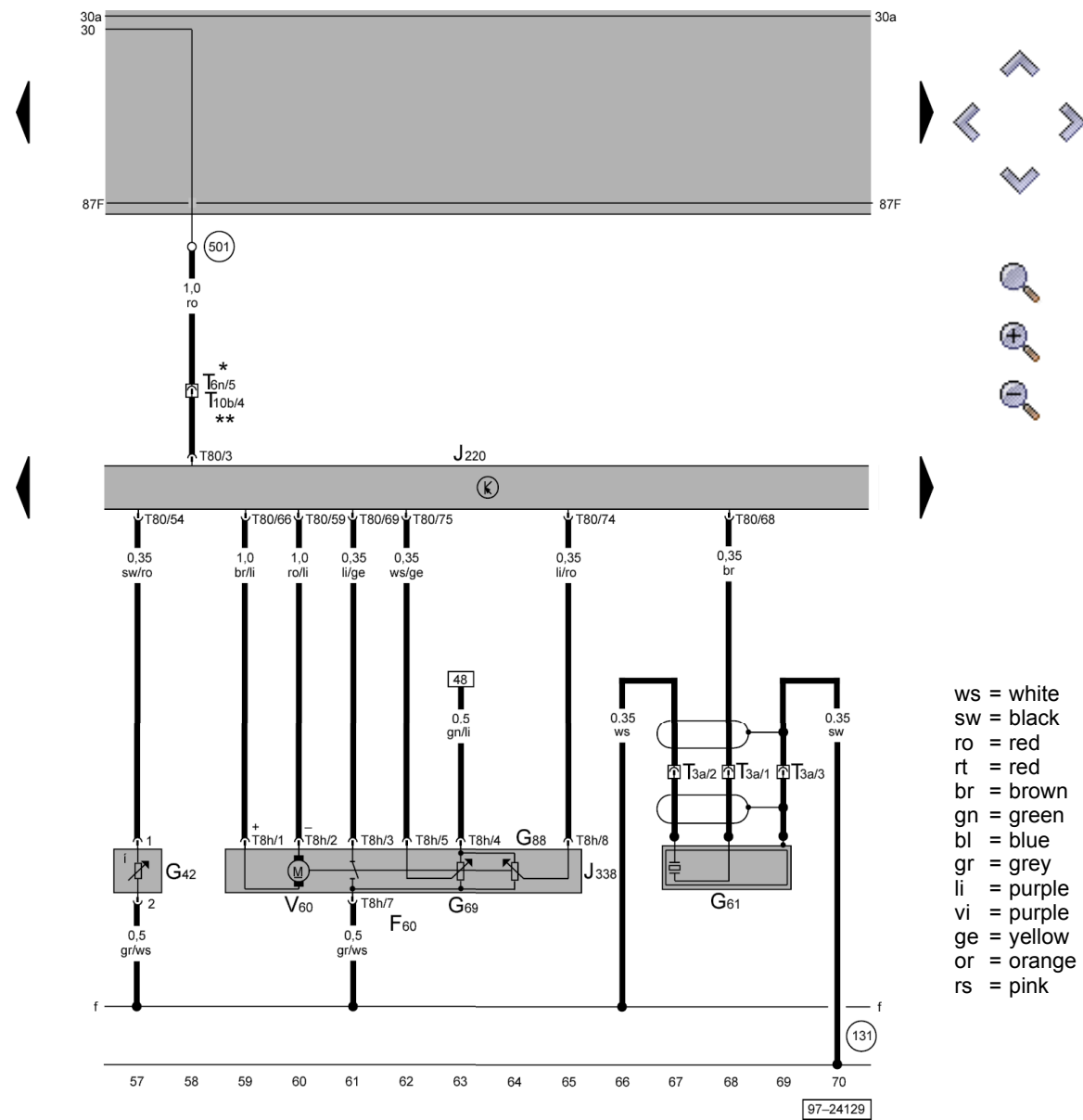
- F96 - Altitude sender
- G2 - Coolant temperature sender
- G40 - Hall sender
- G62 - Coolant temperature sender
- J207 - Starter inhibitor relay
- J217 - Control unit for automatic gearbox
- J220 - Motronic control unit, in protective housing on left in engine compartment
- T9 - 9-pin connector, on starter inhibitor relay
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10h - 10-pin connector, blue, on protective housing for control units on left in engine compartment
- T80 - 80-pin connector, on Motronic control unit
- T88 - 88-pin connector, on automatic gearbox control unit
- 220 - Earth connection (sender earth), in engine wiring harness
- E17 - Connection 2, in Motronic wiring harness, from August 1998
- \* - Up to July 1998
- \*\* - From August 1998
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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

# Passat

## Current Flow Diagram

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### Motronic control unit, knock sensor I, throttle valve module, intake air temperature sender

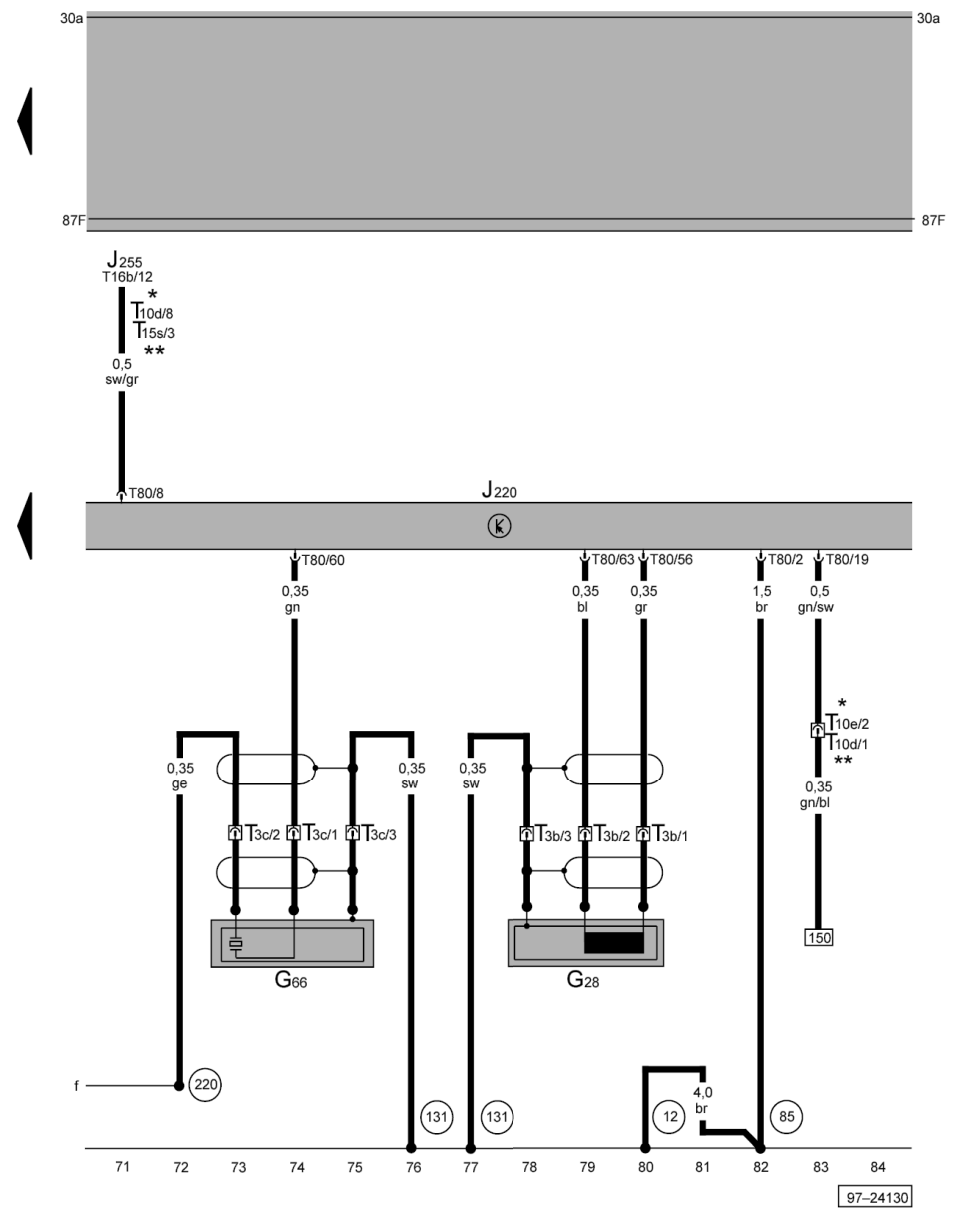
- F60 - Idling speed switch
- G61 - Knock sensor 1
- G69 - Throttle valve potentiometer
- G42 - Intake air temperature sender
- G88 - Throttle valve positioner potentiometer
- J220 - Motronic control unit, in protective housing on left in engine compartment
- J338 - Throttle valve module
- T3a - 3-pin connector, green, on left on bulkhead
- T6n - 6-pin connector, red, on protective housing for control units on left in engine compartment
- T8h - 8-pin connector, on throttle valve module
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10d - 10-pin connector, brown, on protective housing for control units on left in engine compartment (connection for air conditioning system)
- T80 - 80-pin connector, on Motronic control unit
- V60 - Throttle valve positioner
- 131 - Earth connection 2, in engine compartment wiring harness
- 501 - Screw connection 2 (30), on relay plate
- \* - Up to July 1998
- \*\* - From August 1998

- 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

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## Current Flow Diagram

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### Motronic control unit, knock sensor II, engine speed sender

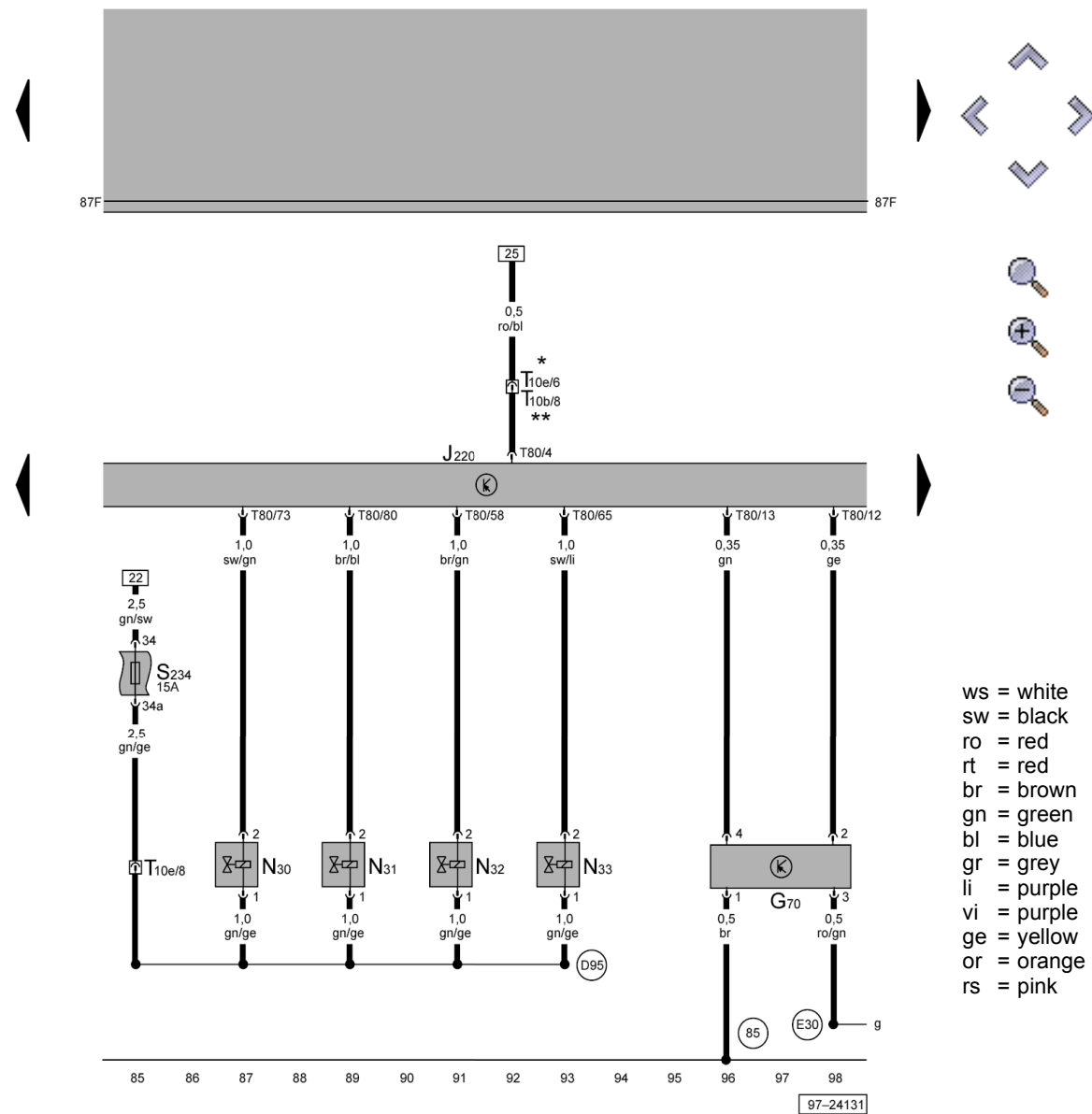
- G28 - Engine speed sender
- G66 - Knock sensor 2
- J220 - Motronic control unit, in protective housing on left in engine compartment
- J255 - Climatronic control unit
- T3b - 3-pin connector, grey, on left on bulkhead
- T3c - 3-pin connector, blue, on left on bulkhead
- T10d - 10-pin connector, brown, on protective housing on left in engine compartment
- T10e - 10-pin connector, orange, on protective housing on left in engine compartment
- T15s - 15-pin connector, red, on protective housing for control units on left in engine compartment
- T16b - 16-pin connector, on Climatronic control unit
- T80 - 80-pin connector, on Motronic control unit
- 12 - Earth point, on left in engine compartment
- 85 - Earth connection 1, in engine compartment wiring harness
- 131 - Earth connection 2, in engine compartment wiring harness
- 220 - Earth connection (sender earth), in engine wiring harness
- \* - Up to July 1998
- \*\* - From August 1998

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

# Passat

## Current Flow Diagram

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### Motronic control unit, injectors, air mass meter

- G70 - Air mass meter
- J220 - Motronic control unit, in protective housing on left in engine compartment
- N30 - Injector, cylinder 1
- N31 - Injector, cylinder 2
- N32 - Injector, cylinder 3
- N33 - Injector, cylinder 4
- S234 - Fuse 34 in fuse holder
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10e - 10-pin connector, orange, on protective housing for control units on left in engine compartment
- T80 - 80-pin connector, on Motronic control unit
- 85 - Earth connection 1, in engine compartment wiring harness
- D95 - Connection (injectors), in engine compartment wiring harness
- E30 - Connection (87a), in engine wiring harness
- \* - Up to July 1998
- \*\* - From August 1998

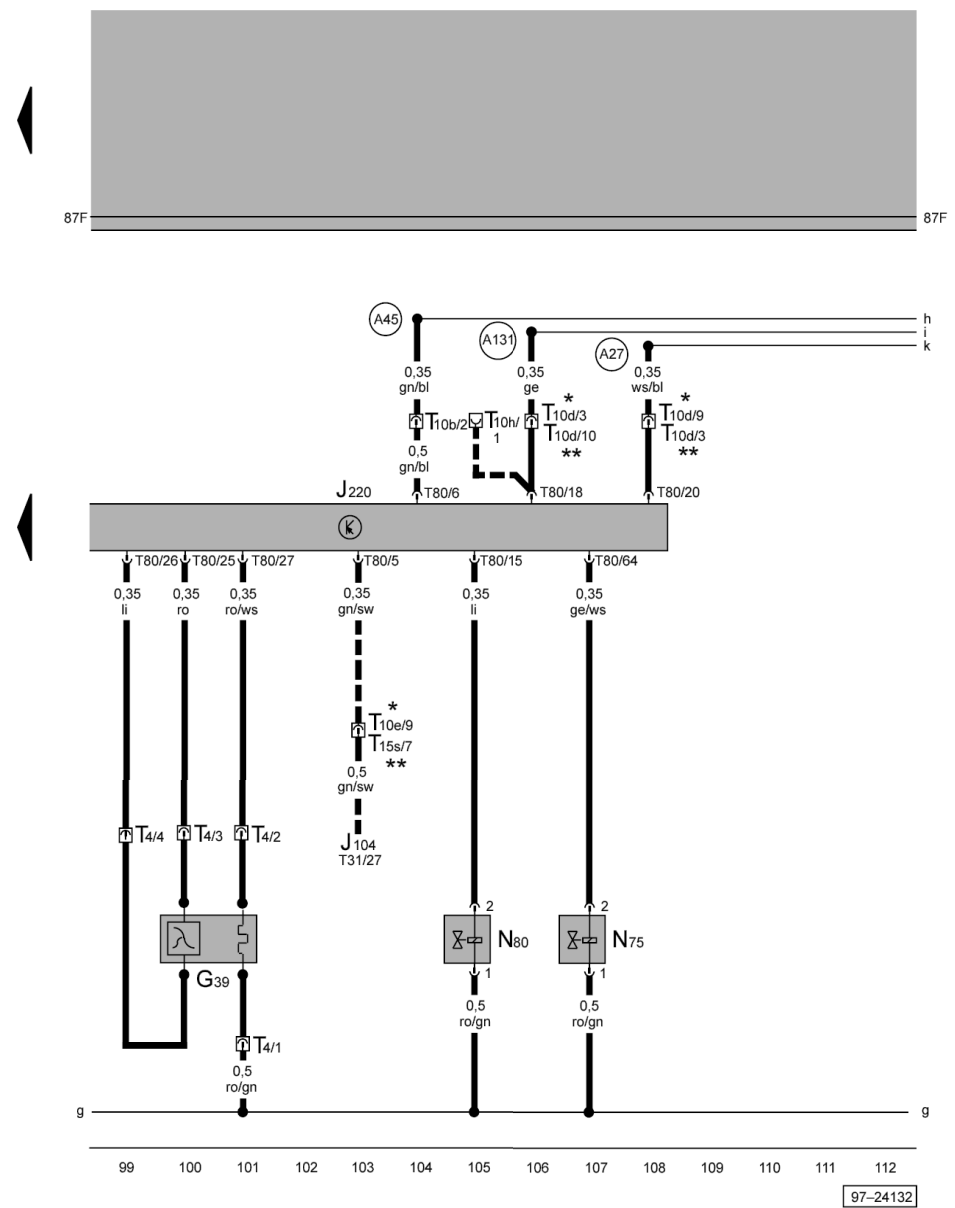
ws = white  
 sw = black  
 ro = red  
 rt = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = purple  
 vi = purple  
 ge = yellow  
 or = orange  
 rs = pink



# Passat

## Current Flow Diagram

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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

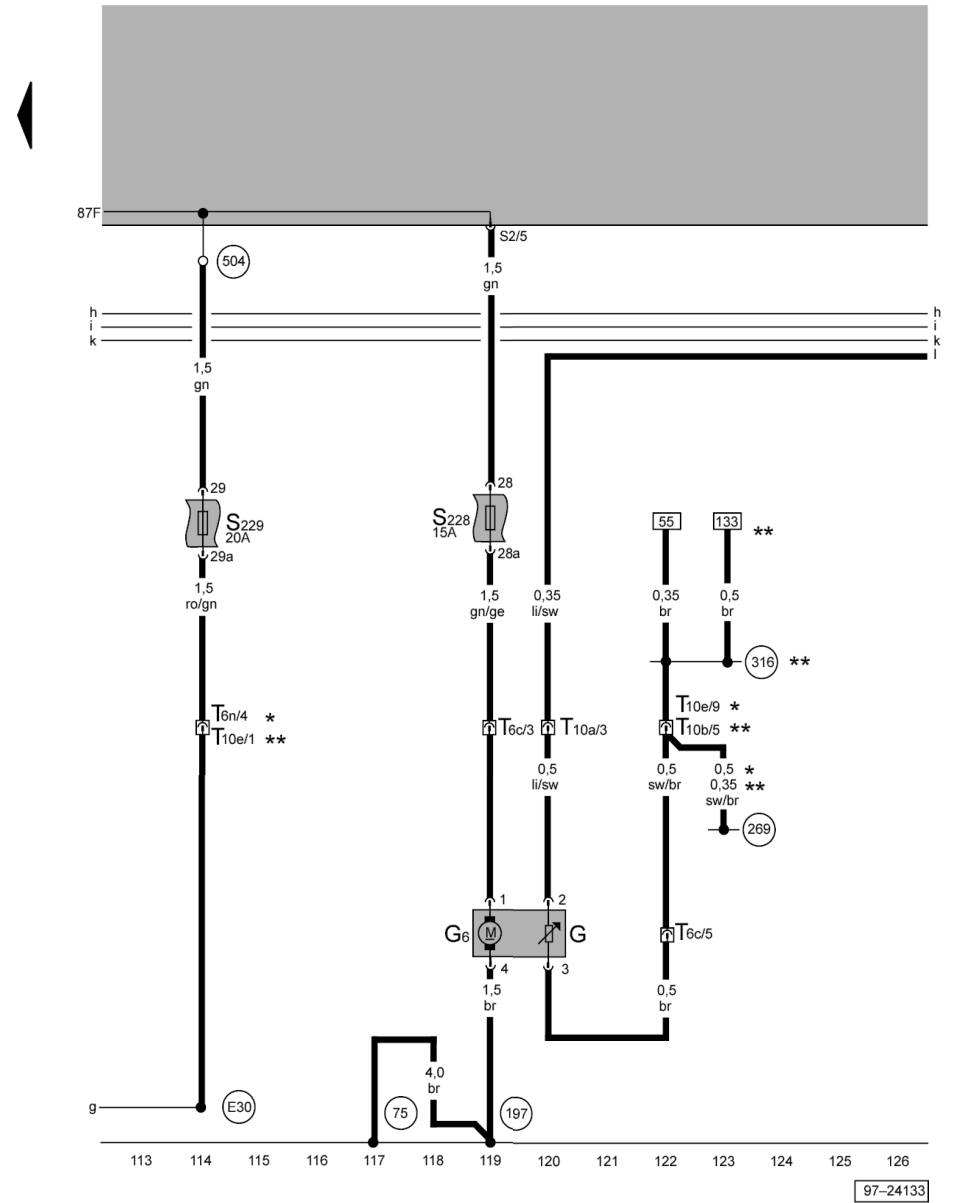
### Motronic control unit, Lambda probe, activated charcoal filter system solenoid valve, charge pressure control solenoid valve

- G39 - Lambda probe
- J104 - ABS with EDL control unit
- J220 - Motronic control unit, in protective housing on left in engine compartment
- N75 - Charge pressure control solenoid valve
- N80 - Activated charcoal filter system solenoid valve 1 (pulsed)
- T4 - 4-pin connector
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10d - 10-pin connector, brown, on protective housing for control units on left in engine compartment
- T10e - 10-pin connector, orange, on protective housing for control units on left in engine compartment
- T10h - 10-pin connector, blue, on protective housing for control units on left in engine compartment
- T15s - 15-pin connector, red, on protective housing for control units on left in engine compartment
- T31 - 31-pin connector, on ABS with EDL control unit
- T80 - 80-pin connector, on Motronic control unit
- A27 - Connection (speed signal), in dash panel wiring harness
- A45 - Connection (RPM signal), in dash panel wiring harness
- A131 - Connection (fuel consumption indicator), in dash panel wiring harness
- E30 - Connection (87a), in engine wiring harness
- - Only models with automatic gearbox
- \* - Up to July 1998
- \*\* - From August 1998

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## Current Flow Diagram

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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

### Fuel pump, fuel gauge sender

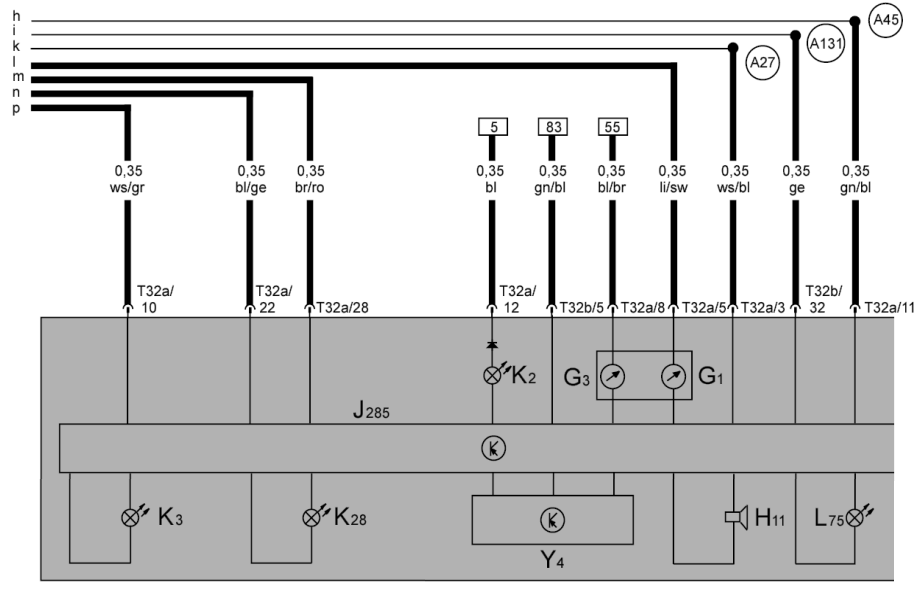
- G - Fuel gauge sender
- G6 - Fuel pump
- S228 - Fuse 28 in fuse holder
- S229 - Fuse in fuse holder
- T6c - 6-pin connector, blue, left A-pillar coupling station
- T6n - 6-pin connector, red, on protective housing for control units on left in engine compartment
- T10a - 10-pin connector, brown, left A-pillar coupling station
- T10b - 10-pin connector, black, on protective housing for control units on left in engine compartment
- T10e - 10-pin connector, orange, on protective housing for control units on left in engine compartment
- 75 - Earth point, rear right pillar
- 197 - Earth connection 4, in rear wiring harness
- 269 - Earth connection (sender earth) 1, in dash panel wiring harness
- 316 - Earth connection (sender earth) 2, in engine wiring harness
- 504 - Screw connection 1 (87), on relay plate
- E30 - Connection (87a), in engine wiring harness
- \* - Up to July 1998
- \*\* - From August 1998



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## Current Flow Diagram

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**Dash panel insert, optical and acoustic oil pressure warning, odometer display, coolant shortage and coolant temperature indicator, fuel gauge**

- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- H11 - Oil pressure warning buzzer
- J285 - Display control unit, in dash panel insert
- L75 - Digital display illumination bulb
- K2 - Alternator warning lamp
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- T32a - 32-pin connector, blue, on dash panel insert
- T32b - 32-pin connector, green, on dash panel insert
- Y4 - Odometer display
- A27 - Connection (speed signal), in dash panel wiring harness
- A45 - Connection (RPM signal), in dash panel wiring harness
- A131 - Connection (fuel consumption indicator), in dash panel wiring harness

ws = white  
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 ro = red  
 rt = red  
 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = purple  
 vi = purple  
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141 142 143 145 146 147 148 149 150 151 152 153 154 155