

# Transporter

## Current Flow Diagram

# No. 5 / 1

Edition 05.2003

### 2.5 l/75 kW direct injection turbo diesel, engine code ACV

From May 1998

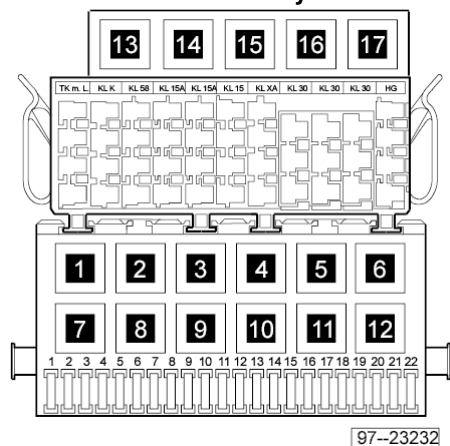
### 2.5 l/65 kW direct injection turbo diesel, engine code AJT

From May 1998

### 2.5 l/111 kW direct injection turbo diesel, engine code AHY

From August 1998

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



3 - Terminal 30 voltage supply relay (109)

12 - Glow plug relay (103)

#### **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

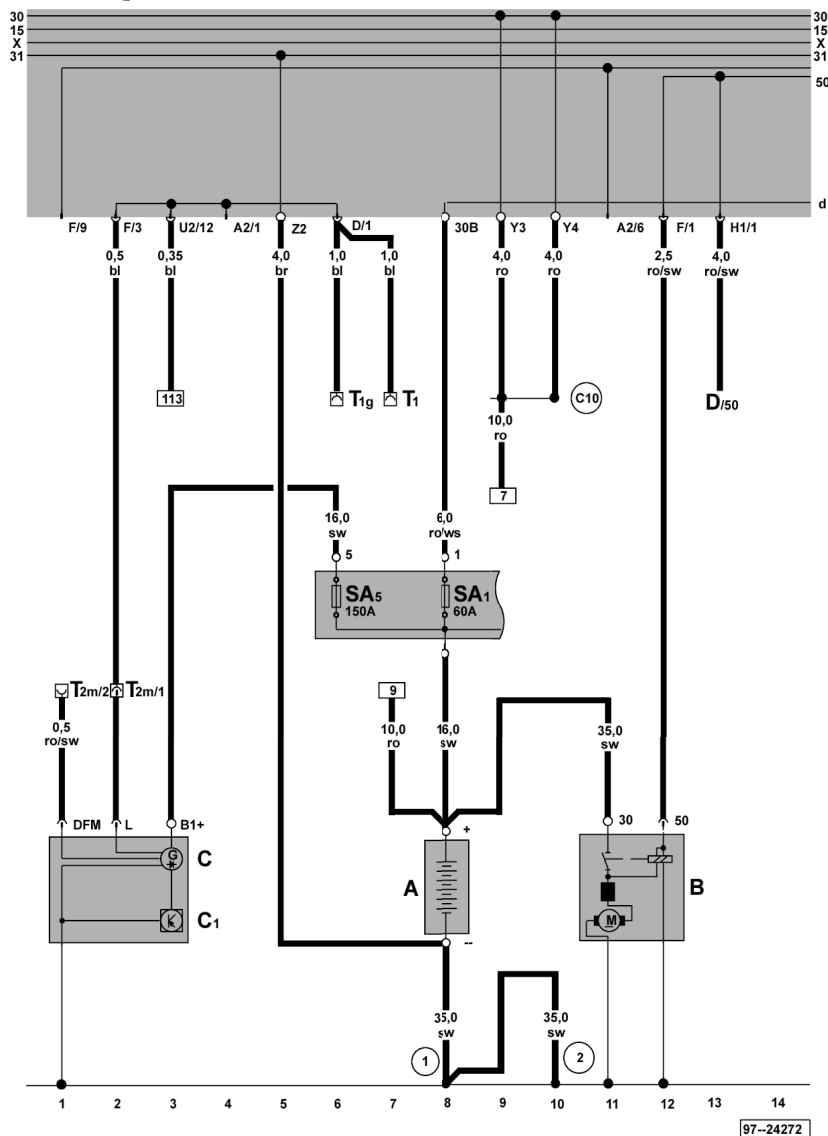
5 A - beige

3 A - lilac

# Transporter

## Current Flow Diagram

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### Battery, alternator, starter

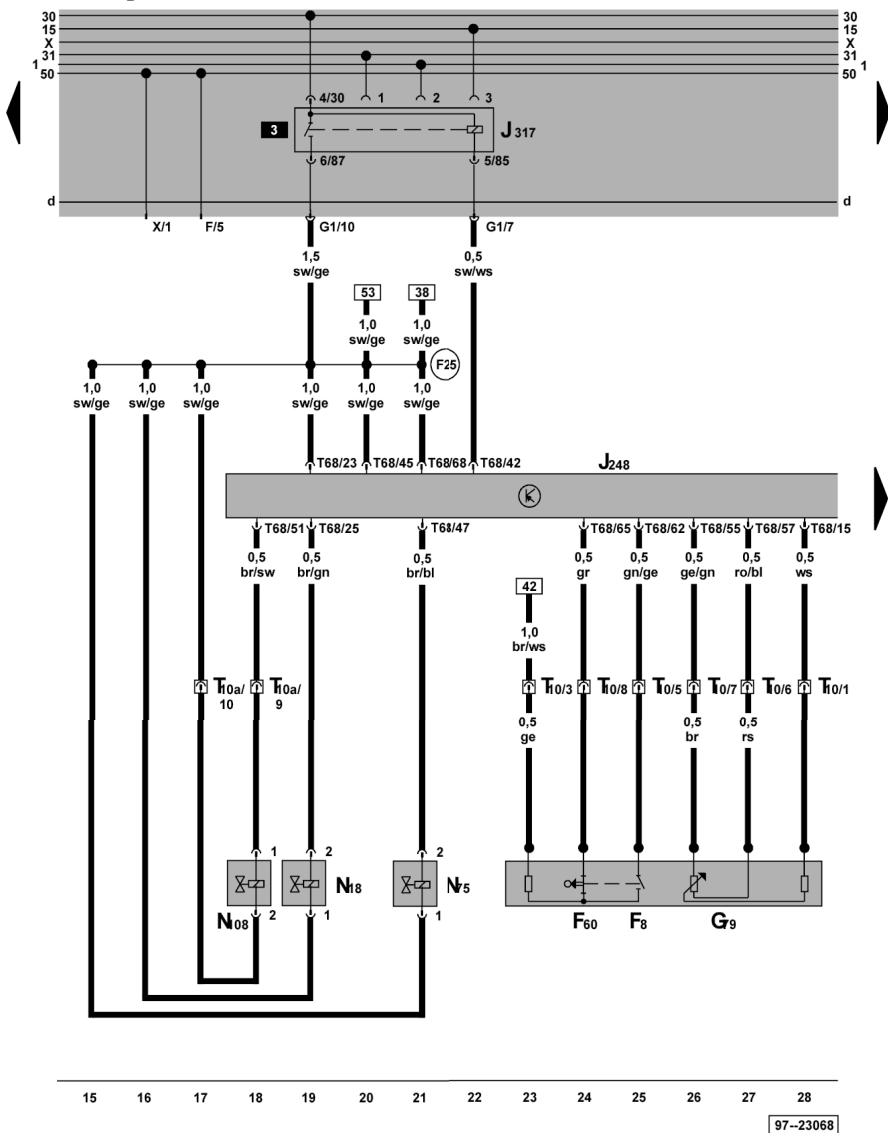
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- SA1 - Fuse -1- on battery fuse box
- SA5 - Fuse -5- on battery fuse box
- T1 - Single connector, behind relay plate
- T1g - Single connector, behind relay plate
- T2m - 2-pin connector, near starter
- 1 - Earth strap, battery - body
- 2 - Earth strap, gearbox - body
- C10 - Positive (+) connection -1- (30), in headlight wiring harness

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

# Transporter

## Current Flow Diagram

No. 5 / 3



**Diesel direct injection system control unit, commencement of injection valve, exhaust gas recirculation, charge pressure control, idling switch, kick-down switch, accelerator pedal position sender**

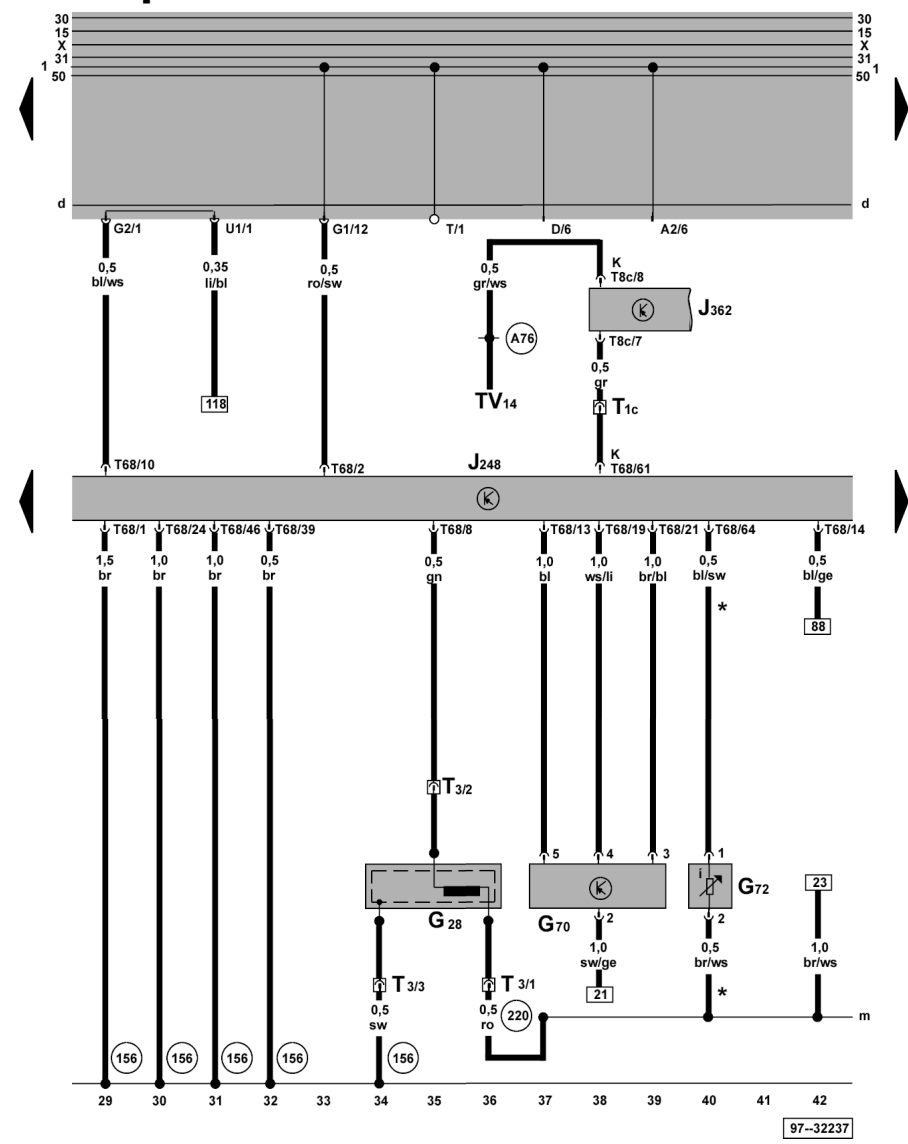
- F8 - Kick-down switch, only with automatic gearbox
- F60 - Idling switch
- G79 - Accelerator pedal position sender
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J317 - Terminal 30 voltage supply relay
- N18 - Exhaust gas recirculation valve
- N75 - Charge pressure control solenoid valve
- N108 - Commencement of injection valve
- T10 - 10-pin connector, behind relay plate
- T10a - 10-pin connector, on engine front
- T68 - 68-pin connector
- F25 - Connection -1-, in diesel direct injection system wiring harness

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

# Transporter

## Current Flow Diagram

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### Diesel direct injection system control unit, engine speed sender, air mass meter, intake manifold temperature sender, self-diagnosis connection

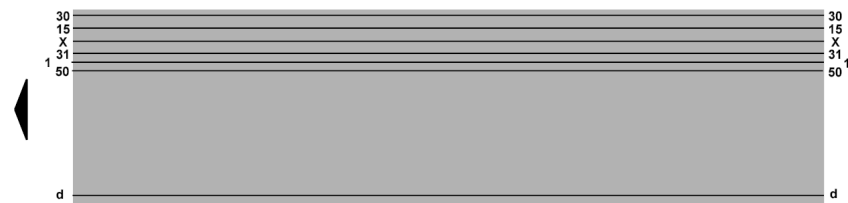
- G28 - Engine speed sender
- G70 - Air mass meter
- G72 - Intake manifold temperature sender
- J248 - Diesel direct injection system control unit, in engine compartment, left
- J362 - Immobilizer control unit, behind dash panel insert, right
- T1c - Single connector, behind relay plate
- T3 - 3-pin connector, on engine front
- T8c - 8-pin connector
- T68 - 68-pin connector
- TV14 - Terminal for self-diagnosis, white
- 156 - Earth connection, in diesel direct injection wiring harness
- 220 - Earth connection (sender earth), in engine wiring harness
- A76 - Connection (diagnosis wire K), in dash panel wiring harness
- \* - Only engine codes AJT, ACV

ws = white  
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 gn = green  
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 gr = grey  
 li = purple  
 ge = yellow  
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# Transporter

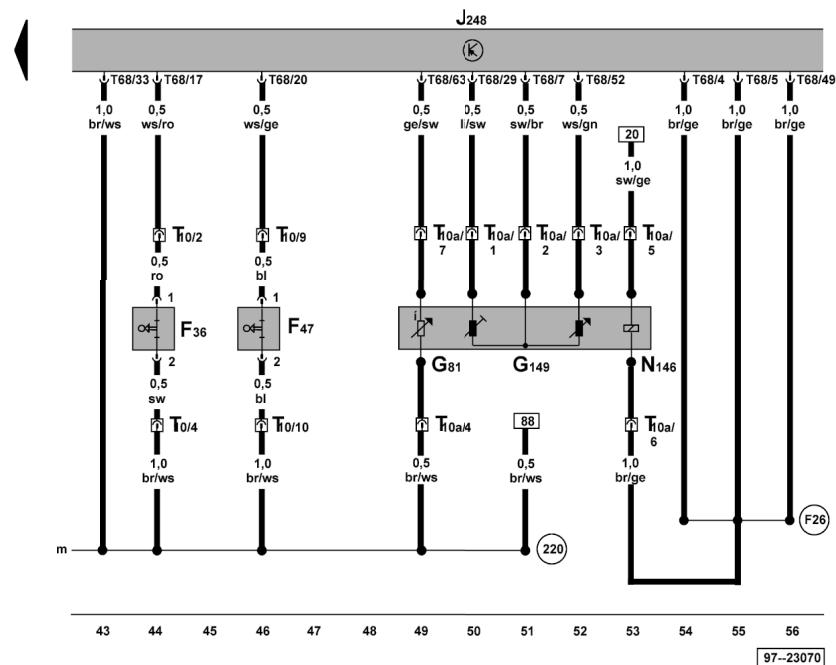
## Current Flow Diagram

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### Diesel direct injection system control unit, pedal switch, fuel temperature sender, modulating piston movement sender, metering adjuster

- F36 - Clutch pedal switch
- F47 - Cruise control system brake pedal switch (diesel direct injection system)
- G81 - Fuel temperature sender
- G149 - Modulating piston movement sender
- J248 - Diesel direct injection system control unit, in engine compartment, left
- N146 - Metering adjuster
- T10 - 10-pin connector, behind relay plate
- T10a - 10-pin connector, on engine front
- T68 - 68-pin connector
- 220 - Earth connection (sender earth), in engine wiring harness
- F26 - Connection -2-, in diesel direct injection system wiring harness

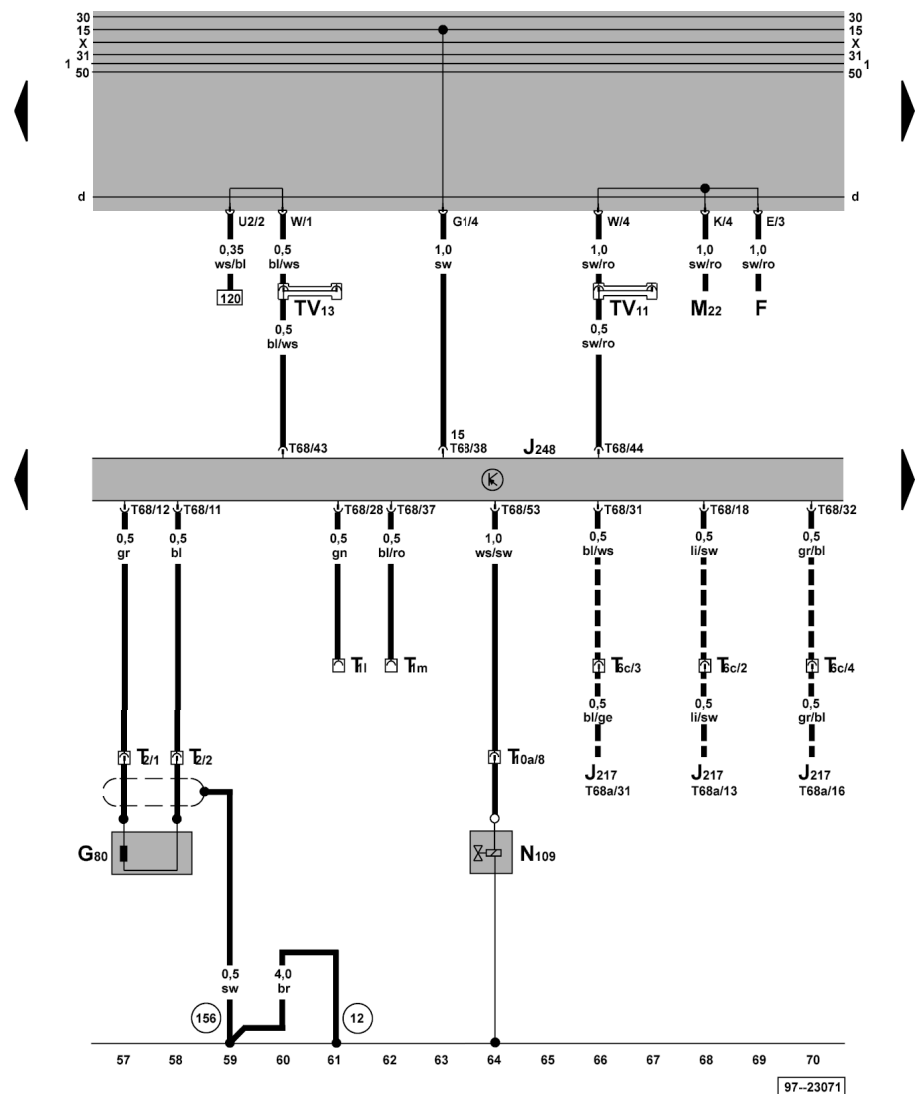


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- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

# Transporter

## Current Flow Diagram

### No. 5 / 6



### Diesel direct injection system control unit, needle lift sender, fuel shut-off valve

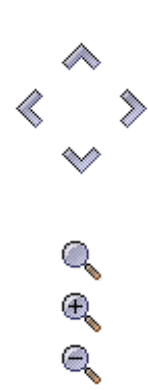
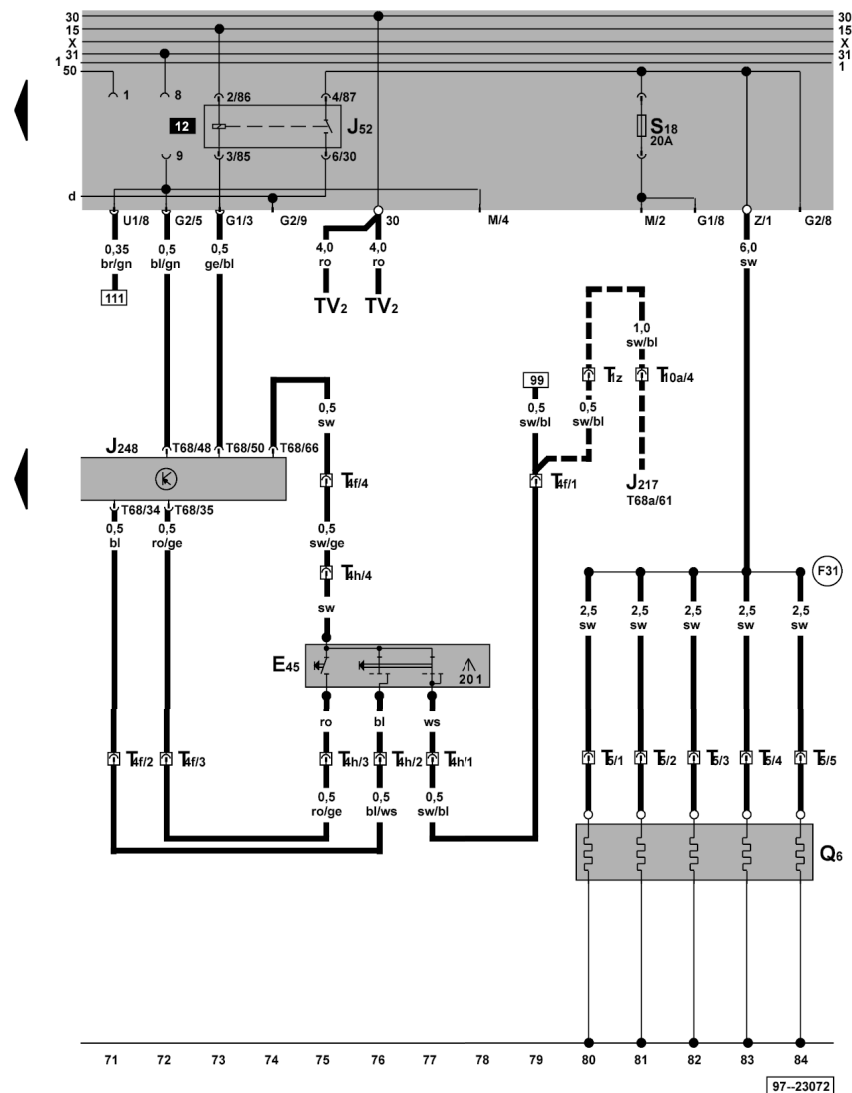
- F - Brake light switch
- G80 - Needle lift sender
- J217 - Automatic gearbox, on lower part of left A-pillar
- J248 - Diesel direct injection system control unit, in engine compartment, left
- M22 - Brake and tail light bulb, right
- N109 - Fuel shut-off valve
- T11 - Single connector, behind relay plate
- T1m - Single connector, behind relay plate
- T2 - 2-pin connector, on engine front
- T6c - 6-pin connector, behind relay plate
- T10a - 10-pin connector, on engine front
- T68 - 68-pin connector
- T68a - 68-pin connector, on automatic gearbox control unit
- TV11 - Terminal 54 junction box, orange
- TV13 - Terminal for speed signal blue
- 12 - Earth point, in engine compartment, left
- 156 - Earth connection, in diesel direct injection wiring harness
- - Only models with automatic gearbox

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

# Transporter

## 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

#### Diesel direct injection system control unit, cruise control system switch, glow plugs - engine

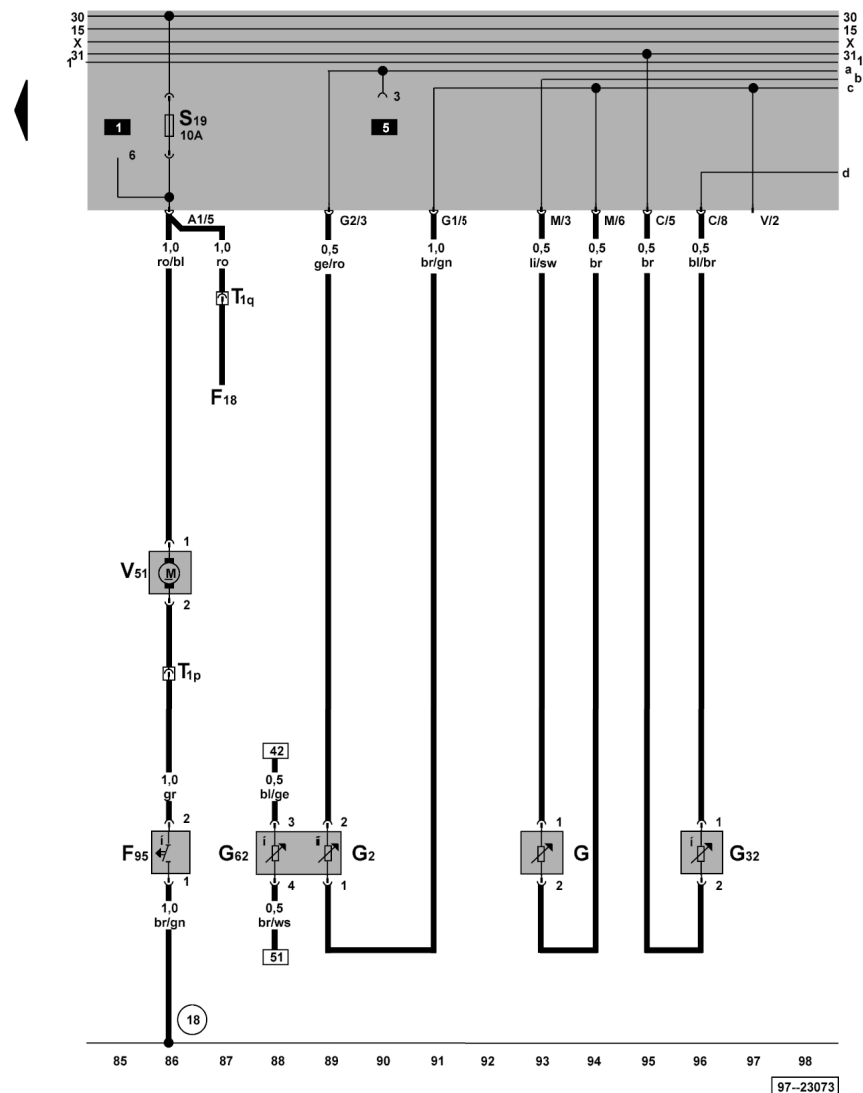
- E45 - Cruise control system switch
- J52 - Glow plug relay
- J217 - Automatic gearbox, on lower part of left A-pillar
- J248 - Diesel direct injection system control unit, in engine compartment, left
- Q6 - Glow plugs - engine
- T1z - Single connector, behind relay plate
- T4f - 4-pin connector, behind relay plate
- T4h - 4-pin connector, behind steering column switch trim
- T5 - 5-pin connector, on engine front
- T10a - 10-pin connector, behind relay plate
- T68 - 68-pin connector
- T68a - 68-pin connector, on automatic gearbox control unit
- TV2 - Terminal 30 junction box, red, both have 6-pin
- F31 - Connection (glow plugs - engine), in diesel direct injection system wiring harness
- 
- Only models with automatic gearbox



# Transporter

## Current Flow Diagram

### No. 5 / 8



### Continued coolant circulation, fuel gauge sender, coolant shortage indicator sender, coolant temperature sender

- F18 - Radiator fan thermo-switch
- F95 - Thermo-switch for continued coolant circulation
- G - Fuel gauge sender
- G2 - Coolant temperature sender
- G32 - Coolant shortage indicator sender
- G62 - Coolant temperature sender
- T1p - Single connector, behind relay plate
- T1q - Single connector, behind relay plate
- V51 - Continued coolant circulation pump
- 18 - Earth point, on engine block

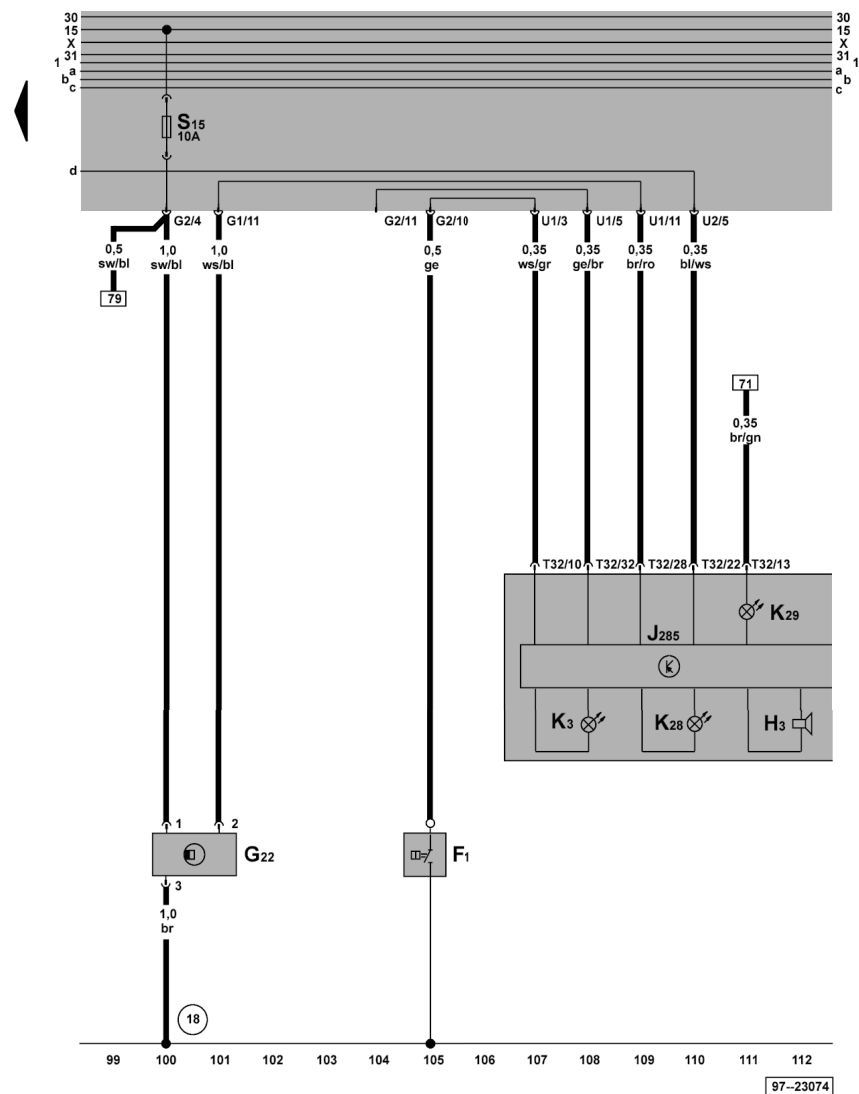
- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = purple
- ge = yellow
- or = orange
- rs = pink

97-23073

# Transporter

## Current Flow Diagram

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### Dash panel insert, speedometer sender, oil pressure and coolant warning, glow period warning lamp, buzzer/gong

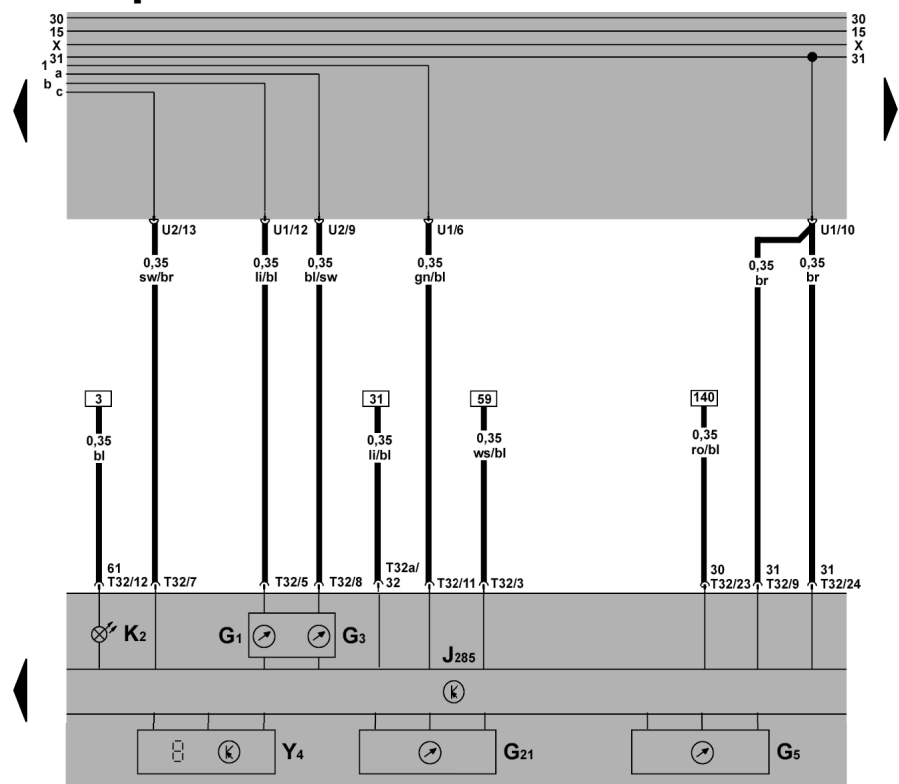
- F1 - Oil pressure switch
- G22 - Speedometer sender (Hall sender, on gearbox)
- H3 - Buzzer/gong
- J285 - Control unit with display in dash panel insert
- K3 - Oil pressure warning lamp
- K28 - Coolant temperature/coolant shortage warning lamp
- K29 - Glow period warning lamp
- T32 - 32-pin connector
- 18 - Earth point, on engine left

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

# Transporter

## Current Flow Diagram

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**Dash panel insert, fuel gauge, coolant temperature gauge, odometer display, speedometer, rev. counter, alternator warning lamp**

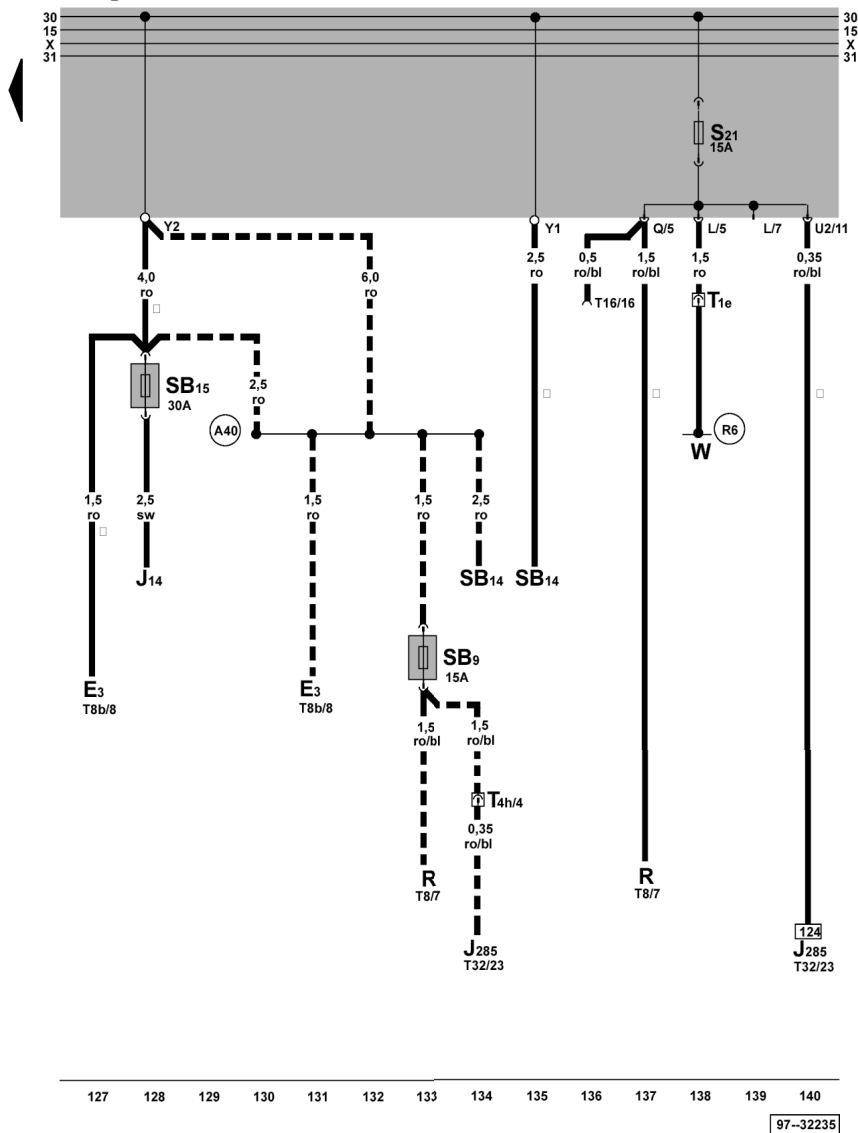
- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G5 - Rev. counter
- G21 - Speedometer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- T8 - 8-pin connector, on radio
- T32 - 32-pin connector
- Y4 - Odometer display

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

# Transporter

## Current Flow Diagram

### No. 5 / 11



### Onboard power supply control unit, radio fuse and combi-processor

- J285 - Control unit with display in dash panel insert
- E3 - Hazard warning light switch
- J14 - Warm air blower relay, control number (53), behind dash panel, centre
- T2f - 2-pin connector, in front passenger's door
- R - Radio
- SB9 - Fuse -9- on fuse box/relay plate, below the relay plate
- SB15 - Fuse -15- on fuse box/relay plate, below the relay plate
- S21 - Fuse -21- on fuse box
- T1e - Single connector, behind relay plate
- T4h - 4-pin connector, behind relay plate
- T8 - 8-pin connector, on radio
- T8b - 8-pin connector, on hazard warning light switch
- T32 - 32-pin connector, on dash panel insert
- W - Interior light, front
- A40 - Positive (+) connection -1- (30), in instruments wiring harness
- R6 - Positive (+) connection -1-, in interior light wiring harness
- \* - Up to August 2000
- - From September 2000

