

**1.9 I/85 kW Turbo diesel engine with unit injectors, engine codes AJM**

from May 1999

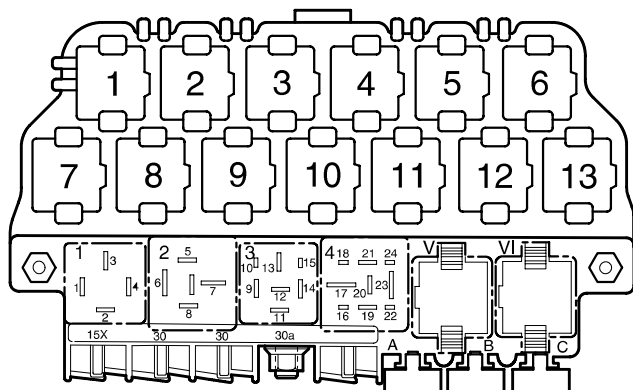
**1.9 I/85 kW Turbo diesel engine with unit injectors, engine codes AUJ**

From July 2000

**1.9 I/74 kW Turbo diesel engine with unit injectors, engine codes ATD**

from September 2000

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



97-14163

**Relay locations on the 13 position additional relay carrier above the relay plate:**

- 10** Fuel pump relay (167)
- 12** Terminal 30 voltage supply relay (109)

**Relay locations on relay plate:**

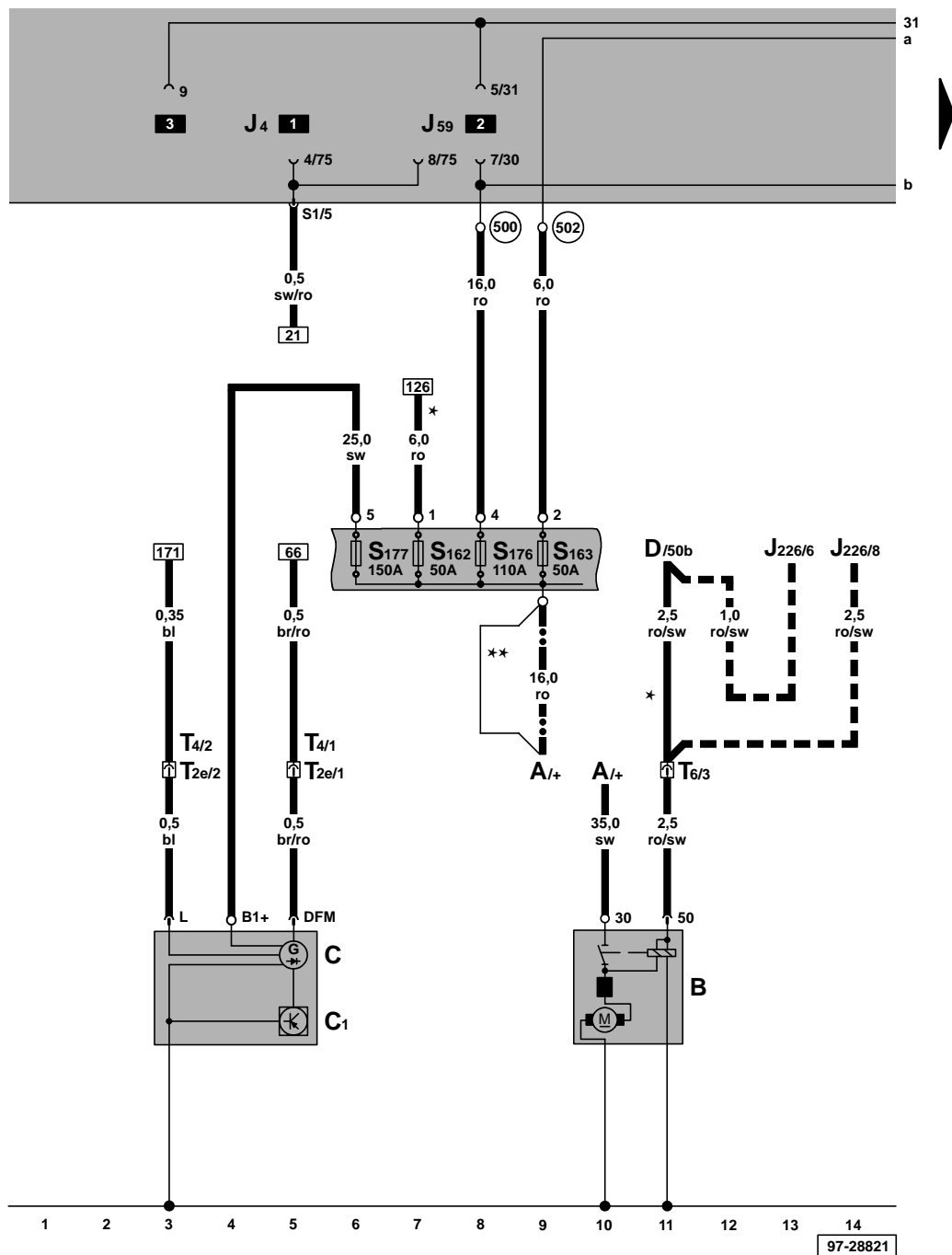
- 2** X contact relief relay (100)
- 4** Glow plug relay (103)

**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

**Note:**

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



Alternator, starter

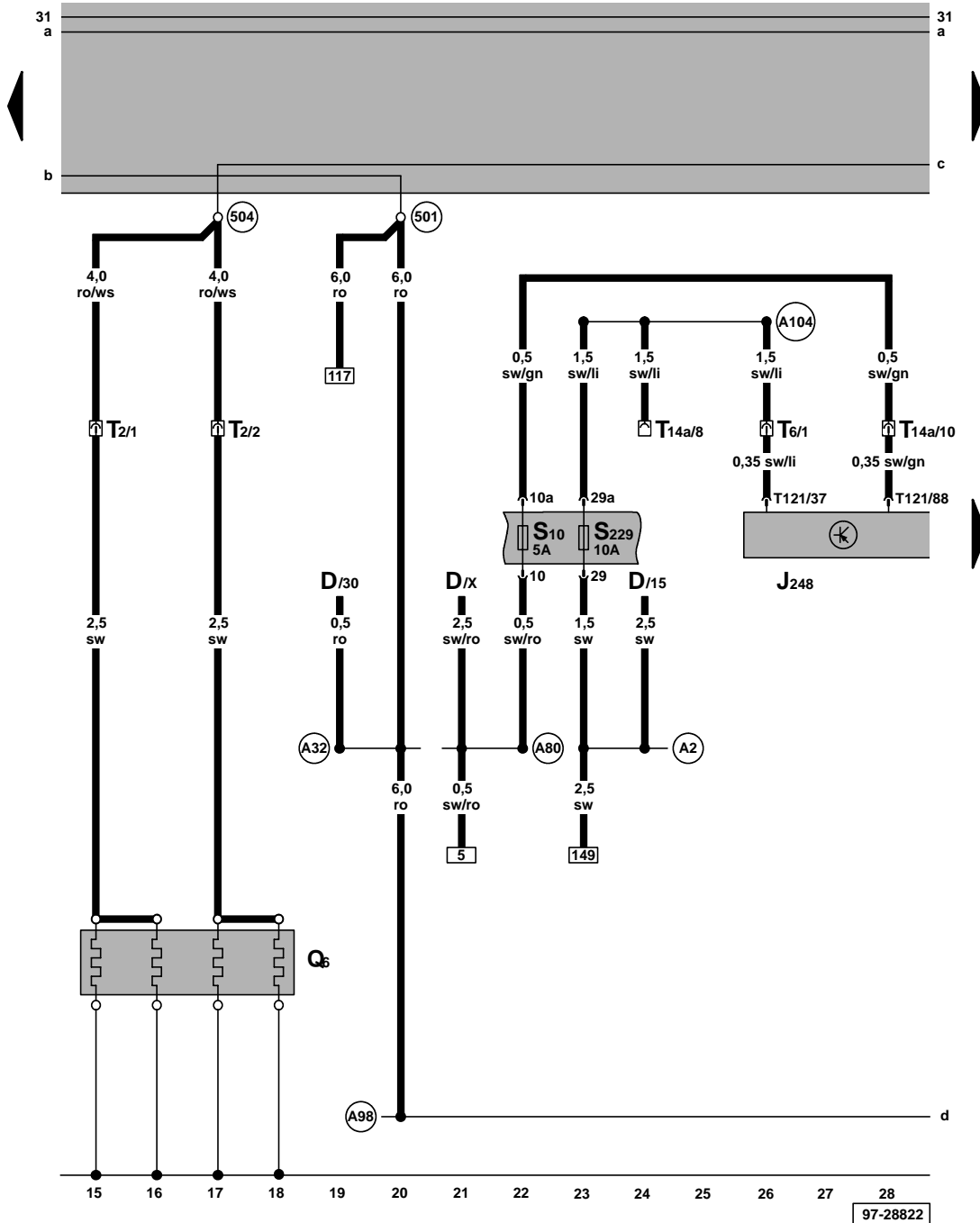
- A - Battery
- B - Starter
- C - Alternator
- C1 - Voltage regulator
- D - Ignition/starter switch
- J4 - Dual tone horn relay
- J59 - X contact relief relay
- J226 - Starter inhibitor and reversing light relay, on the 13 position additional relay carrier
- S162 - Fuse -1- (30), in fuse box/battery
- S163 - Fuse -2- (30), in fuse box/battery
- S176 - Fuse -4- (30), in fuse box/battery
- S177 - Fuse -5- (30), in fuse box/battery
- T2e - 2-pin connector, near starter (only models without air conditioner)
- T4 - 4-pin connector, near starter (only models with air conditioner)
- T6 - 6-pin connector, brown, in control unit protective housing, in plenum chamber, left

- (500) - Screw connection -1- (30), on relay plate
- (502) - Screw connection -1- (30a), on relay plate

- \* - Only models with manual gearbox
- From September 2000
- \*\* - Up to August 2000
- - - 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

**Diesel direct injection system control unit, glow plugs - engine**

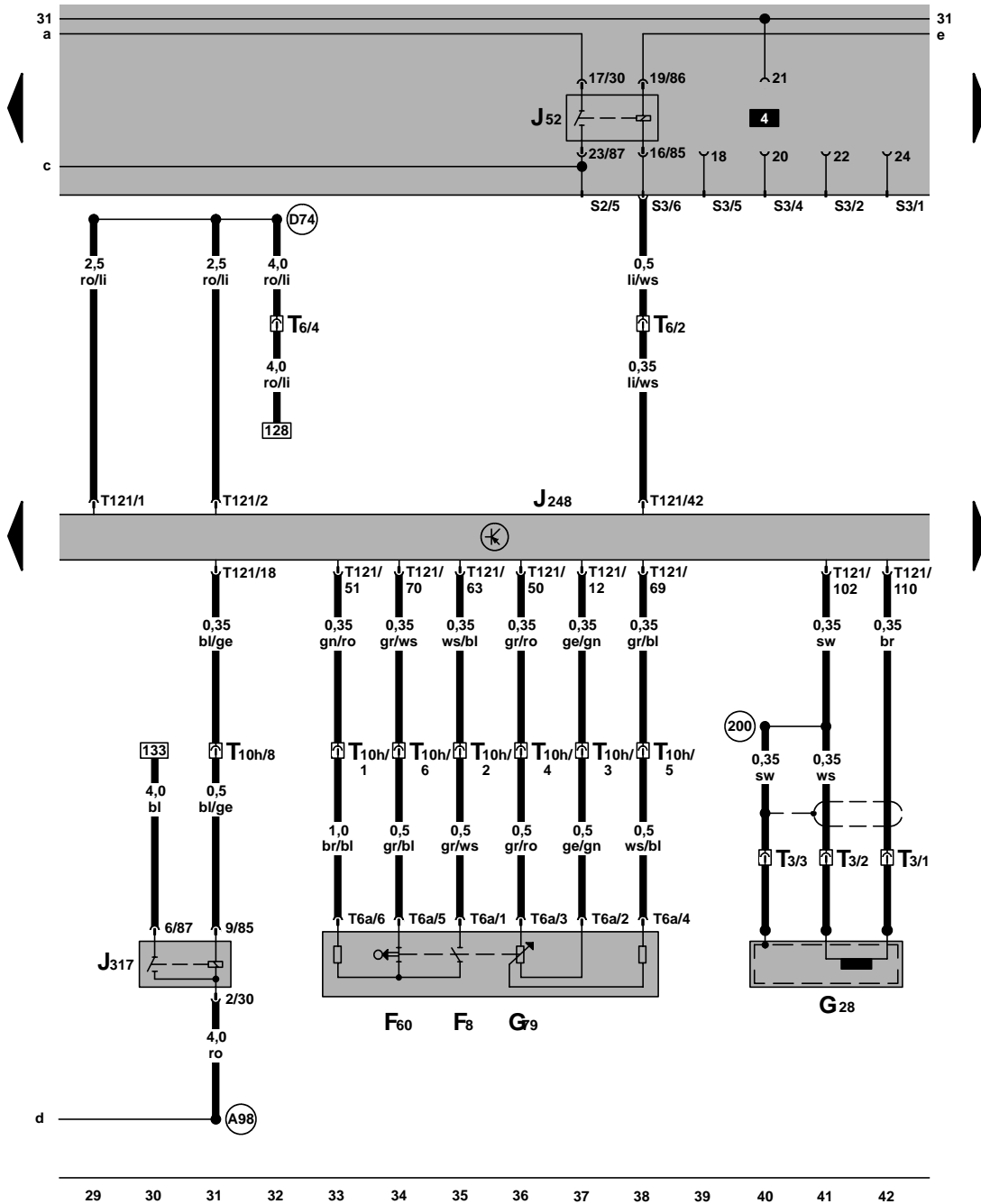


- D - Ignition/starter switch
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- Q6 - Glow plugs - engine
- S10 - Fuse in fuse box
- S229 - Fuse in fuse box
- T2 - 2-pin connector, in cable channel left in engine compartment
- T6 - 6-pin connector, brown, in control unit protective housing, in plenum chamber, left
- T14a - 14-pin connector, in cable channel left in engine compartment
- T121 - 121-pin connector

- (501) - Screw connection -2- (30), on relay plate
- (504) - Screw connection (87F), on relay plate
- (A2) - Positive (+) connection (15), in dash panel wiring harness
- (A32) - Positive (+) connection (30), in dash panel wiring harness
- (A80) - Connection -1- (X), 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

ws = white  
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 br = brown  
 gn = green  
 bl = blue  
 gr = grey  
 li = lilac  
 ge = yellow  
 or = orange

Diesel direct injection system control unit, glow plug relay, kick-down switch, engine speed sender, idling switch, accelerator pedal position sender, terminal 30 voltage supply relay

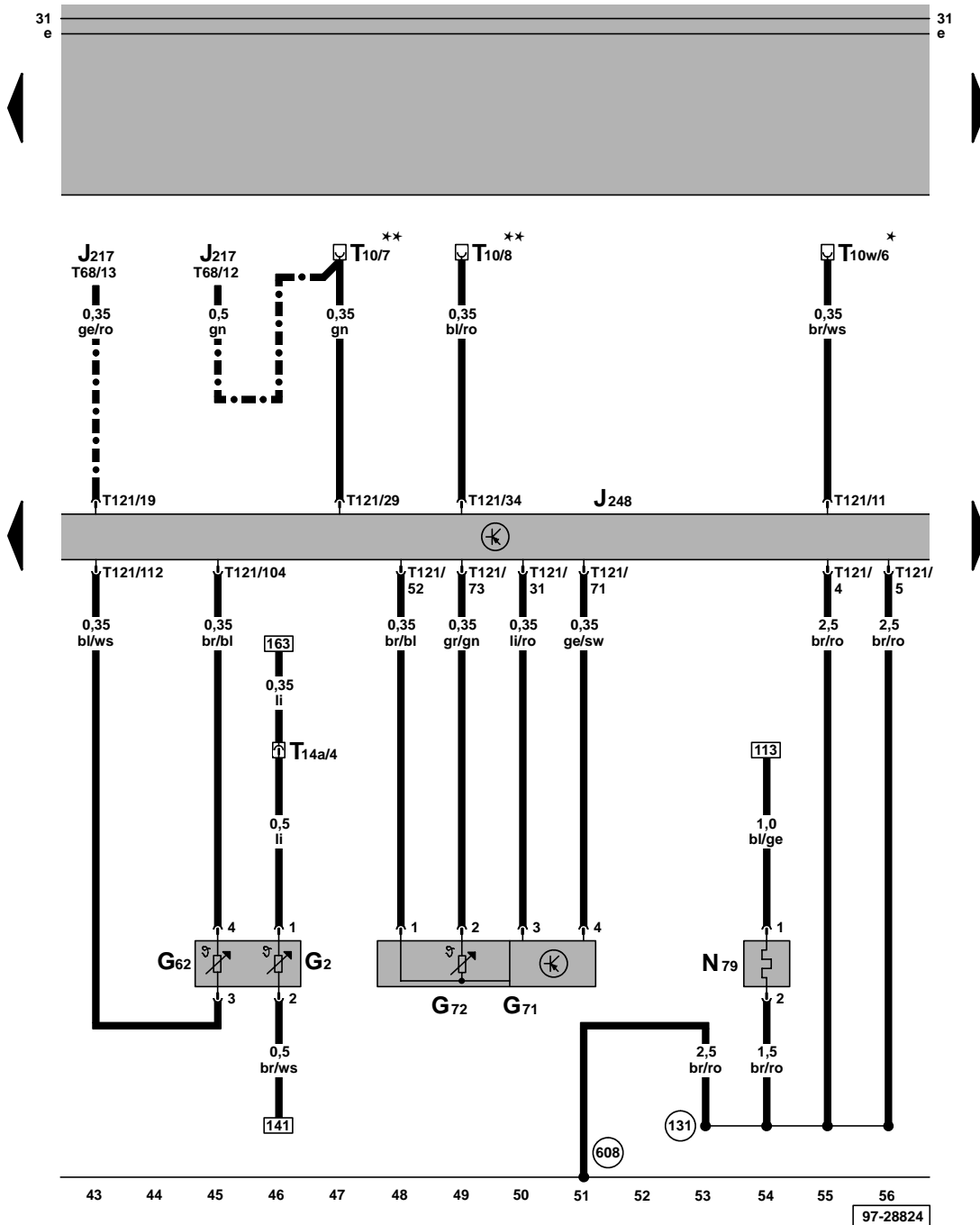


- F8 - Kick-down switch
- F60 - Idling switch
- G28 - Engine speed sender
- G79 - Accelerator pedal position sender
- J52 - Glow plug relay
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- J317 - Terminal 30 voltage supply relay, above the central electrics
- T3 - 3-pin connector, on engine front
- T6 - 6-pin connector, brown, in control unit protective housing, in plenum chamber, left
- T6a - 6-pin connector
- T10h - 10-pin connector, blue, in control unit protective housing, in plenum chamber, left
- T121 - 121-pin connector

- (200) - Earth connection (screening), in engine compartment wiring harness
- (A98) - Positive (+) connection -4- (30), in dash panel wiring harness
- (D74) - Connection (86), in engine compartment wiring harness

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Diesel direct injection system control unit, coolant temperature sender, intake manifold pressure sender, intake manifold temperature sender, heater element (crankcase breather)

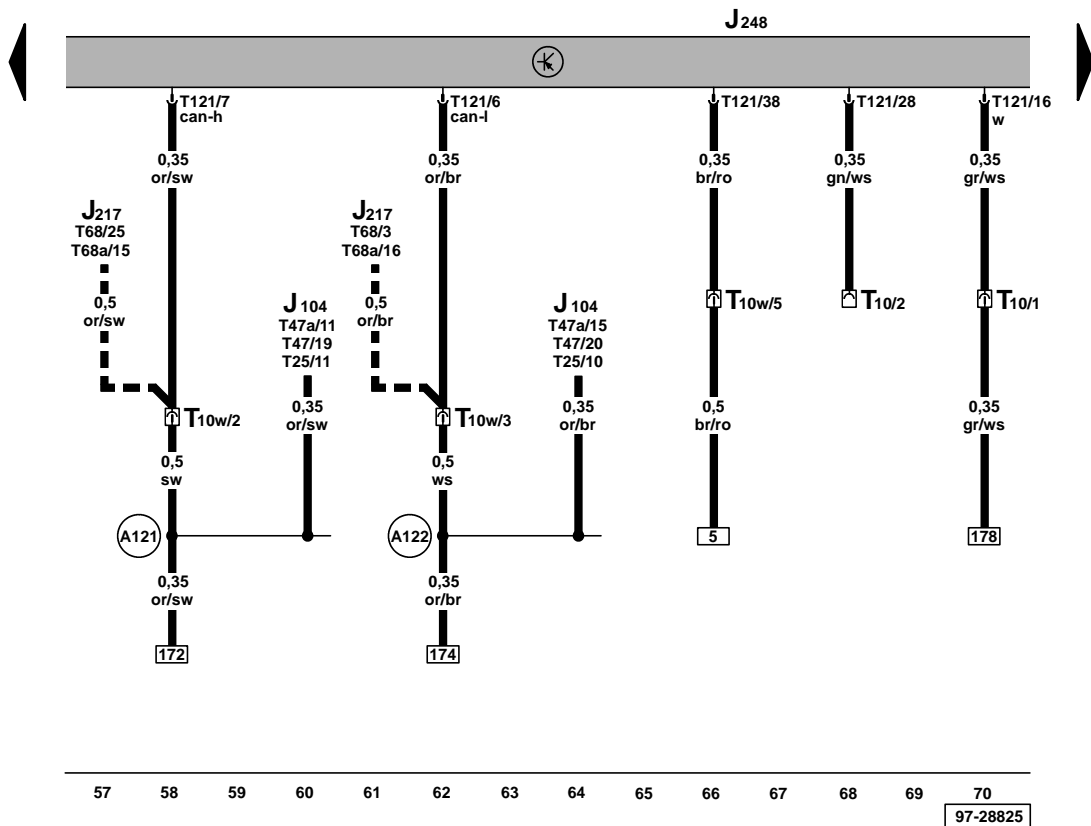
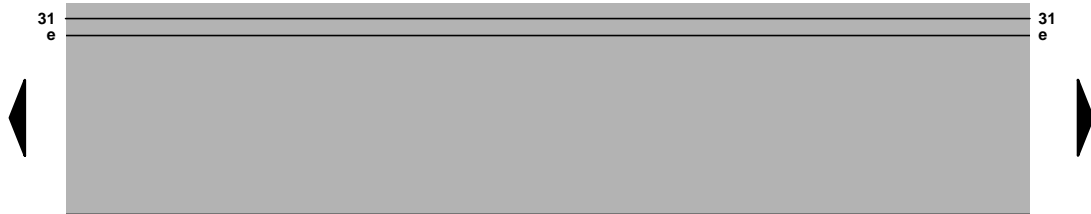


- G2 - Coolant temperature sender
- G62 - Coolant temperature sender
- G71 - Intake manifold pressure sender
- G72 - Intake manifold temperature sender
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- N79 - Heater element (crankcase breather)
- T10 - 10-pin connector, orange, in protective housing for connectors, in plenum chamber, left
- T10w- 10-pin connector, white, in protective housing for connectors, in plenum chamber, left
- T14a - 14-pin connector, in cable channel left in engine compartment
- T68 - 68-pin connector
- T121 - 121-pin connector

- (131) - Earth connection -2-, in engine compartment wiring harness
- (608) - Earth point, in plenum chamber, centre

- \* - Radiator fan control unit/ radiator fan relay connection
- \*\* - Connection for air conditioner
- | - Only models with four speed automatic gearbox (AG4)

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**Diesel direct injection system control unit**

- J104 - ABS/ABS with EDL control unit
- J217 - Automatic gearbox control unit
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- T10 - 10-pin connector, orange, in protective housing for connectors, in plenum chamber, left
- T10w - 10-pin connector, white, in protective housing for connectors, in plenum chamber, left
- T25 - 25-pin connector, on ABS/ABS with EDL control unit
- T47 - 47-pin connector, ABS with EDL/TCS/ESP control unit (up to July 2000)
- T47a - 47-pin connector, ABS/ABS with EDL/TCS/ESP control unit (from August 2000)
- T68 - 68-pin connector, only models with four speed automatic gearbox (AG4)
- T68a - 68-pin connector, only models with five speed automatic gearbox (AG5)
- T121 - 121-pin connector

- Connection (high bus), in dash panel wiring harness
- Connection (low bus), in dash panel wiring harness

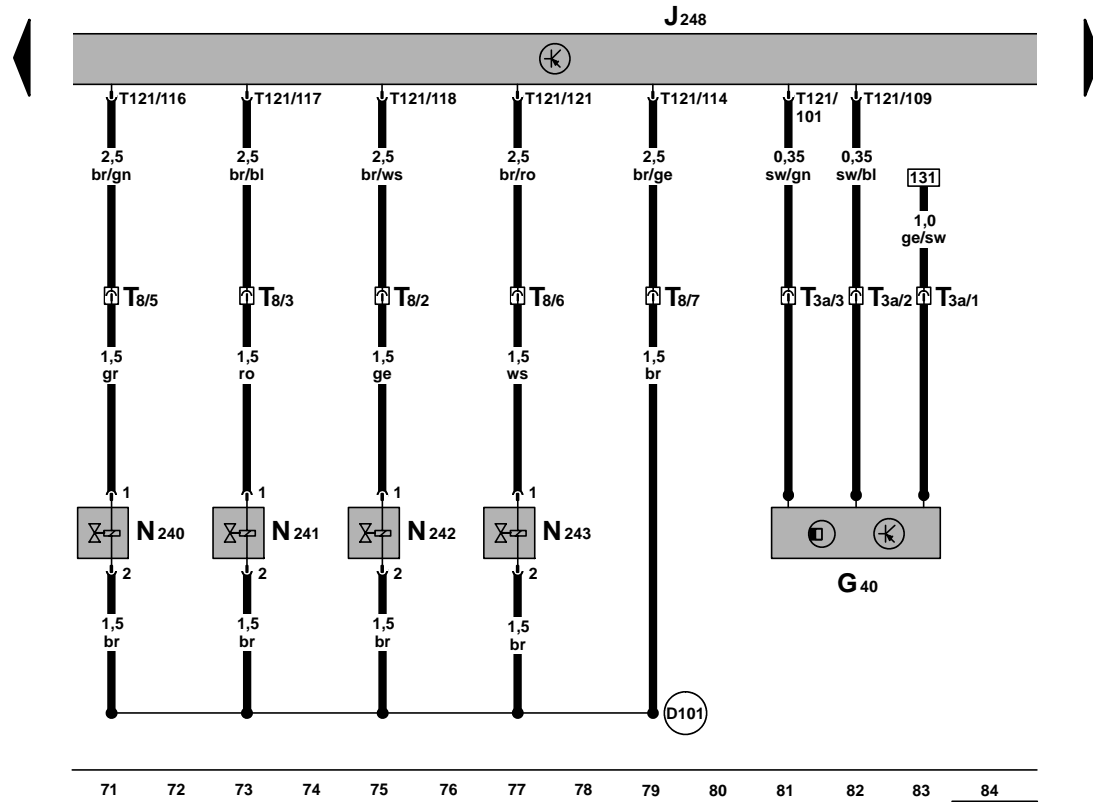
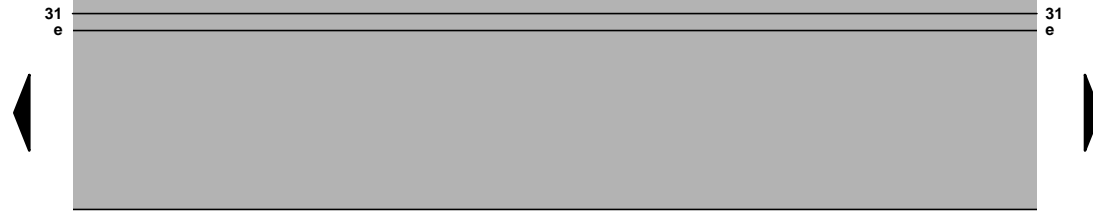
- - - Only models with automatic gearbox

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**Diesel direct injection system control unit, unit injector solenoid valves, hall sender (for camshaft position)**

- G40 - Hall sender (for camshaft position)
- J248 - Diesel direct injection system control unit, in plenum chamber, centre
- N240- Unit injector solenoid valve, No. 1 cyl.
- N241- Unit injector solenoid valve, No. 2 cyl.
- N242- Unit injector solenoid valve, No. 3 cyl.
- N243- Unit injector solenoid valve, No. 4 cyl.
- T3a - 3-pin connector, on engine front
- T8 - 8-pin connector, in engine compartment, left
- T121 - 121-pin connector

(D101) - Connection -1-, in engine compartment wiring harness



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