T4 WIRING DIAGRAMS
Instrument Clusters - Diesels
Transporters - from Jan 1996 on
Transporters - from May 1999 on

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Compliments of
“Flaming T4”
vwt4.forumsplace.com
Transporter

1.9 ltr./50 kW Cat diesel, engine code ABL
From January 1996

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

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 - lila

12 - Glow plugs relay (102)
Transporter

Current Flow Diagram

Alternator, starter, continued coolant circulation
A - Battery
B - Starter
C - Alternator
C1 - Voltage regulator
D - Ignition/starter switch
F95 - Thermo-switch for coolant circulation run-on
G2 - Coolant temperature sender
T1b - Single connector, behind relay plate
T2b - 2-pin connector, behind relay plate
T2e - 2-pin connector, near starter
TV15 - Wiring connector, behind relay plate
V51 - Continued coolant circulation pump
85 - Earth connection -1-, in engine compartment wiring harness

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

Current Flow Diagram

Automatic glow period and exhaust gas recirculation control unit, glow plug relay, fuel shut-off valve, engine temperature sender

- F2: Door contact switch, driver side
- G27: Engine temperature sender
- J52: Glow plug relay
- J152: Lights switched on warning buzzer
- J315: Automatic glow period and exhaust gas recirculation control unit, above relay plate
- J362: Immobilizer control unit, behind dash panel insert
- J366: Fuel shut-off valve control unit
- N109: Fuel shut-off valve
- T1c: Single connector
- T1f: Single connector, behind relay plate
- T1i: Single connector, behind relay plate
- T1x: Single connector, behind relay plate
- T2: 2-pin connector, near fuel shut-off valve
- T6: 6-pin connector, on immobilizer control unit
- T18: 18-pin connector, on automatic glow period and exhaust gas recirculation control unit
- TV2: Terminal 30 junction box
- 85: Earth connection -1-, in engine compartment wiring harness
- R4: Connection -1-, in interior light/door contact switch wiring harness

ws = white
sw = black
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gn = green
bl = blue
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li = purple
ge = yellow
or = orange
rs = pink
Transporter Current Flow Diagram

Dash panel insert, oil pressure switch, fuel gauge sender, coolant shortage indicator sender
F1 - Oil pressure switch
F22 - Oil pressure switch (0.3 bar)
G - Fuel gauge sender
G32 - Coolant shortage indicator sender
J285 - Control unit with display in dash panel insert
K3 - Oil pressure warning lamp
K28 - Coolant temperature/coolant shortage warning lamp
T28 - 28-pin connector, on dash panel insert

Earth connection -1-, in engine compartment wiring harness

ws = white
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Dash panel insert, fuel gauge, coolant temperature gauge, glow period warning lamp, speedometer, odometer display

- G1 - Fuel gauge
- G3 - Coolant temperature gauge
- G21 - Speedometer
- H11 - Oil pressure warning buzzer
- J285 - Control unit with display in dash panel insert
- K2 - Alternator warning lamp
- K29 - Glow period warning lamp
- L75 - Digital display illumination
- R - Radio
- T2X - 2-pin connector, behind relay plate
- T8 - 8-pin connector, on radio
- T16 - 16-pin connector, centre in dash panel - self-diagnosis connection for V.A.G 1551-
- T28 - 28-pin connector, on dash panel insert
- Y4 - Odometer display
- R6 - Positive connection -1-, in interior light wiring harness

ws = white
sw = black
ro = red
br = brown
gn = green
bl = blue
gr = grey
li = purple
gle = yellow
or = orange
rs = pink
Dash panel insert, rear view

Note
- The dash panel insert must not be dismantled.
- Perform self-diagnosis for fault finding → Rep. Gr.01.
- Fault finding programmes for specific systems and current circuits → Current flow diagrams, Electrical fault finding and Fitting locations.

1 - 32-pin connector
- Green
- Additional features
- Pin assignment on dash panel inserts without data BUS connection → Chapter
- Pin assignment on dash panel inserts with data BUS connection → Chapter

2 - 20-pin connector
- Red.
- Highline version
- Pin assignment on dash panel inserts without data BUS connection → Chapter
- Pin assignment on dash panel inserts with data BUS connection → Chapter

3 - Clamp for securing wiring harness

4 - Warning buzzer/gong
- Oil pressure warning
- Oil level warning (on vehicles with LongLife Service)
- Lights switched on warning
- Brake system fault
- Brake pad wear warning
- Ignition key warning (certain countries only)
- Seat belt warning (only certain countries)
- Speed warning (only certain countries)

5 - 32-pin connector
- Blue
- Basic functions
- Pin assignment on dash panel inserts without data BUS connection → Chapter
- Pin assignment on dash panel inserts with data BUS connection → Chapter
32-pin connector, blue

1 - Terminal 15, positive
2 - Right turn signal warning lamp
3 - Output signal 1 from electronic speedometer
4 - Trailer operation warning lamp
5 - Fuel gauge
6 - Airbag (connector connected to earth on vehicles without airbag)
7 - Terminal 31, sender earth
8 - Coolant temperature gauge
9 - Terminal 31, earth
10 - Oil pressure switch
11 - RPM signal
12 - Alternator warning lamp, terminal 61
13 - Glow period warning lamp (diesel engine only) or fault warning lamp for electrical accelerator
14 - Rear fog light warning lamp
15 - 16: vacant
17 - Main beam warning lamp, terminal 56a
18 - Left turn signal warning lamp
19 - Anti-lock brake system (connected to earth on vehicles without ABS)
20 - Dash panel insert illumination, terminal 58b
21 - Signal for driver door open
22 - Coolant shortage indicator
23 - Terminal 30, positive
24 - Terminal 31, earth
25 - Self-diagnosis/K cable
26 - Parking light right, signal for lights on warning buzzer
27 - Parking light left, signal for lights on warning buzzer
28 - Input signal to electronic speedometer
29 - Brake system warning lamp
30 - S-contact
31 - Seat belt warning system
32 - Exhaust gas warning lamp
32-pin connector, green

1 - 6: vacant
7 - Brake pad wear
8 - 9: vacant
10 - Fuel reserve warning
11 - Signal for vehicle stationary
12 - Not assigned
13 - Signal for handbrake control
14 - Traction control system/vehicle stabilisation
15 - 17: vacant
18 - Oil temperature and level signal
19 - CAN data bus for drive, high input signal
20 - CAN data bus for drive, low input signal
21 - Not assigned
22 - Signal for bonnet open
23 - MFI save switch (memory)
24 - MFI call-up button (mode)
25 - MFI save switch (reset)
26 - Ambient temperature sensor
27 - 30: vacant
31 - Selector lever display
32 - Fuel consumption signal
Pin assignment of connections on dash panel insert

28-pin connector 1, black

1 - Ambient temperature sensor, earth → Note
2 - Coolant shortage indicator
3 - Terminal 31, earth
4 - MFI save switch (reset) → Note
5 - Terminal 31 b, electronics earth
6 - MFI save switch (memory) → Note
7 - Speed signal output
8 - Oil pressure switch 1.8 bar
9 - Oil pressure switch 0.3 bar
10 - Terminal 1/terminal W
11 - Terminal 30, battery positive
12 - Terminal 58b, illumination
13 - Terminal 15
14 - Rear fog light
15 - MFI call-up button (mode) → Note
16 - Alternator warning lamp, terminal 61
17 - Oil temperature sender → Note
18 - Dual circuit and handbrake system warning lamp
19 - Ambient temperature sensor, signal → Note
20 - Glow period warning lamp / CAT / check
21 - Fuel gauge
22 - Left turn signal warning lamp
23 - Coolant temperature gauge
24 - Right turn signal warning lamp
25 - Main beam warning lamp
26 - Fuel consumption input signal → Note
27 - Speed signal from speedometer sender (Hall sender, at gear box) -G22-
28 - Selector lever display AG 4

1) Only with multi-function indicator

28-pin connector 2, red

1 - 25 vacant
26 - Fault warning lamp for TDI self-diagnosis (USA only)
27 - 28 vacant
Pin assignment of connections on dash panel insert