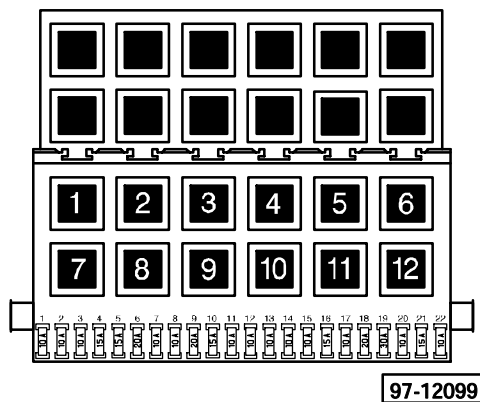


1.9 Engine Tur o iesel Fuel n ection F , W, code 1 ,

from August 1995

Relay location

For relay location and multiple connectors see also section "component locations".



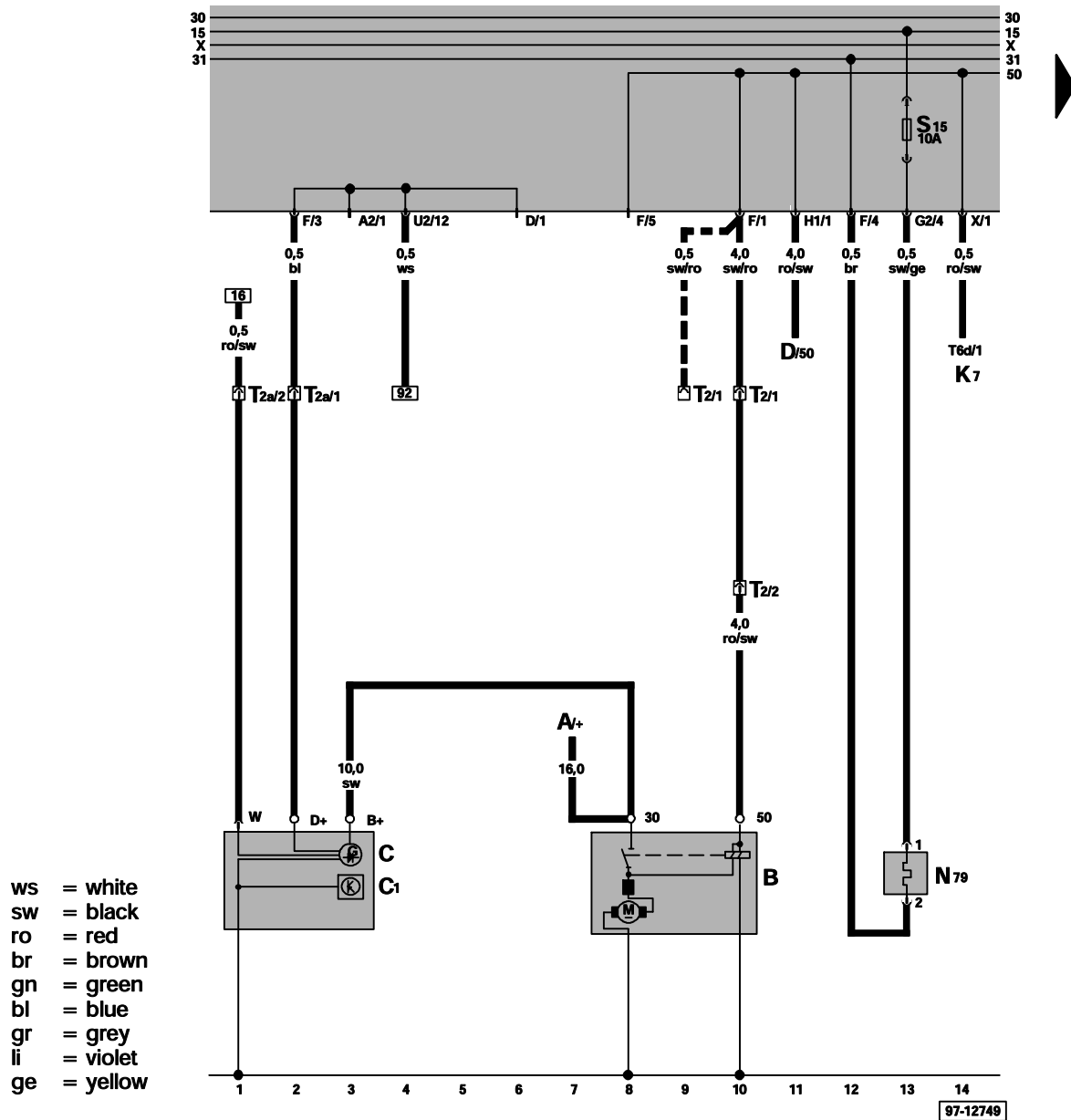
3 – Power Supply (Terminal 30, B+) Relay (109)

12 – Glow Plug Relay (104)

Note: Number in parentheses indicates production control number stamped on relay housing.

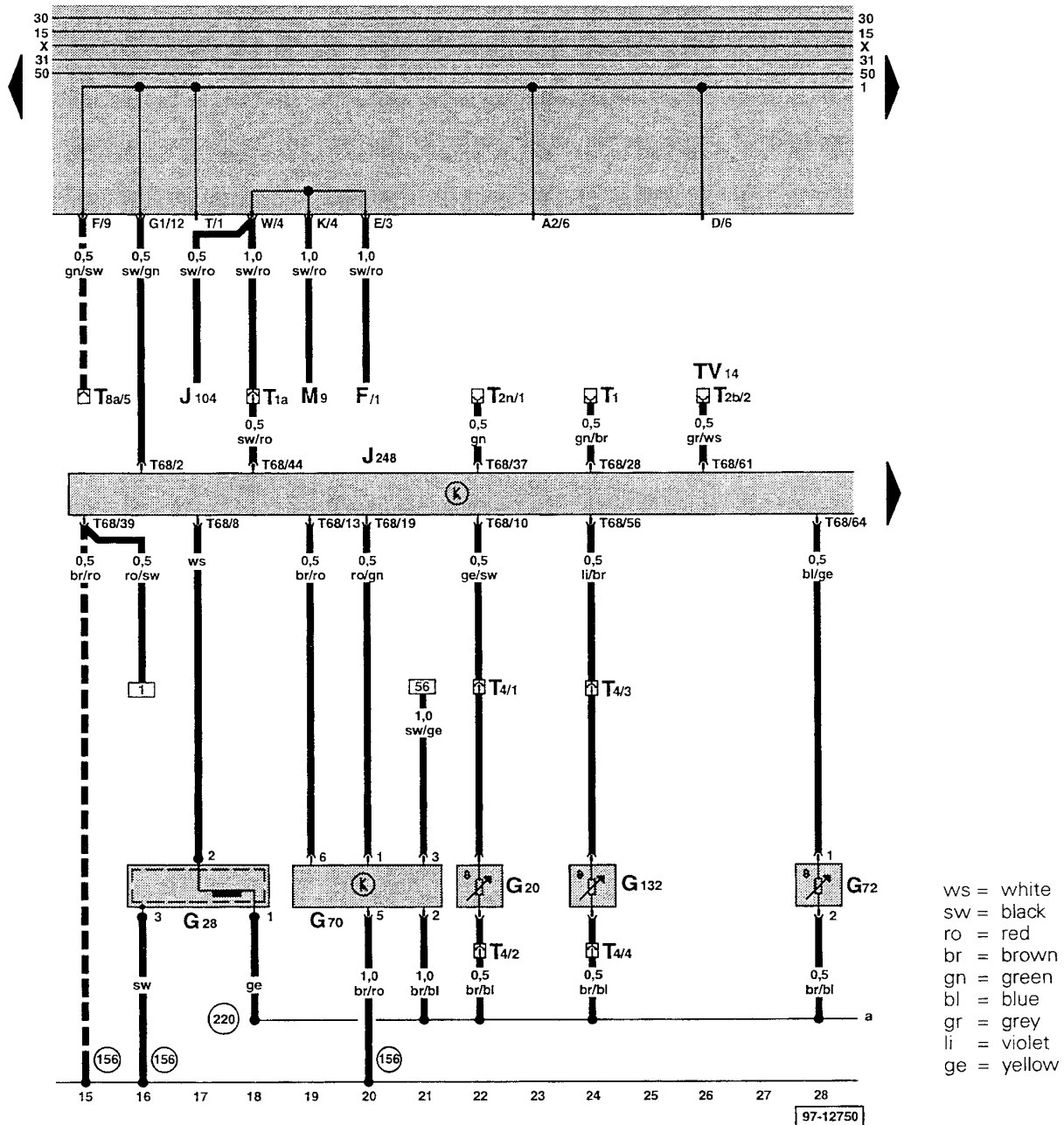
Fuse colors

30A – green
25A – white
20A – yellow
15A – blue
10A – red



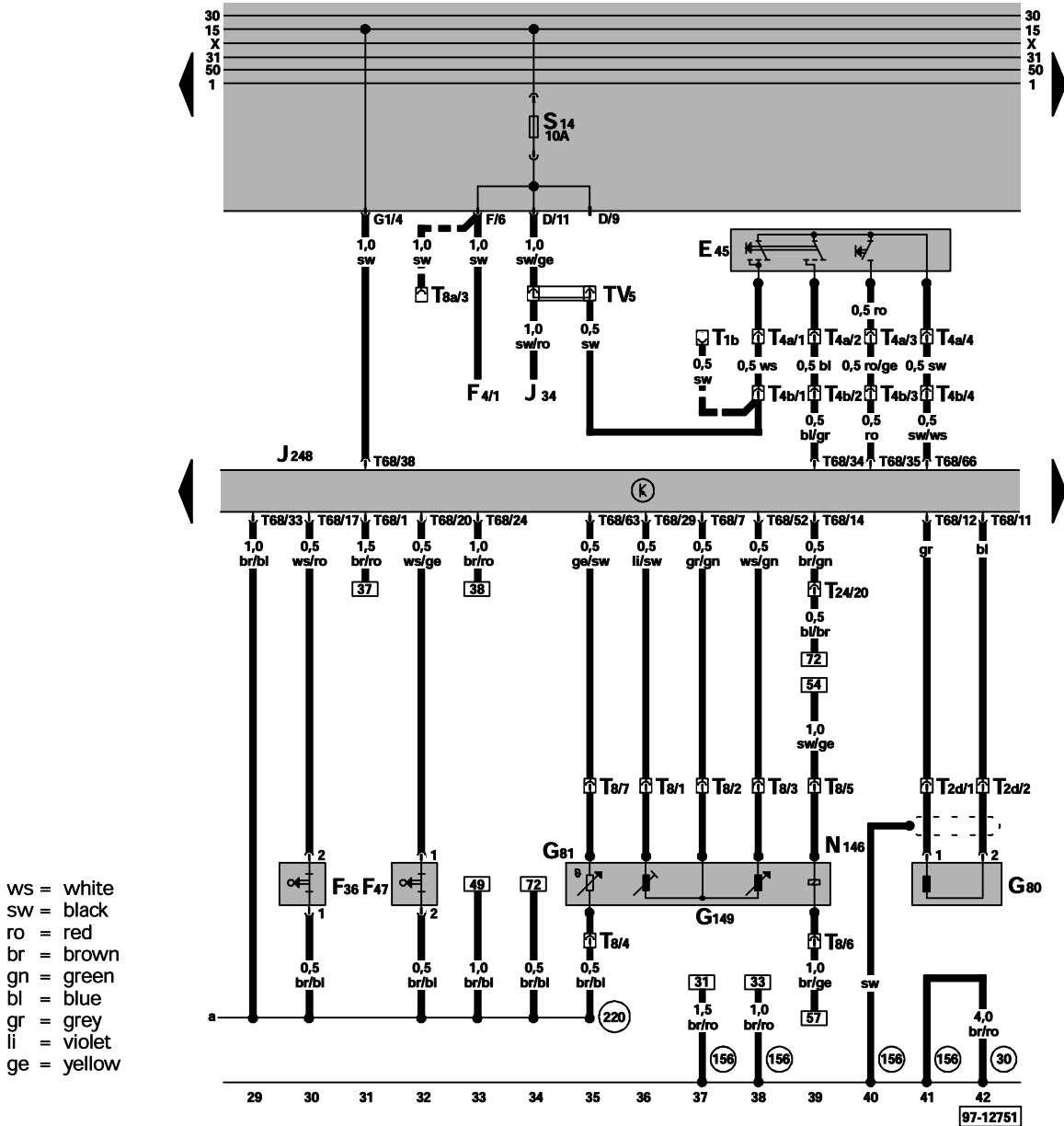
- A - Battery
- B - Starter
- C - Generator (GEN)
- C1 - Voltage Regulator (VR)
- D - Ignition/Starter Switch
- K7 - Brake and Parking Brake Warning Light
- N79 - Positive Crankcase Ventilation (PCV) Heating Element
- T2 - Double Connector, behind fuse/relay panel
- T2a - Double Connector, near starter
- T6d - 6-Pin Connector

--- - Automatic transmission only






- F - Brake Light Switch (00526)
- G20 - Temperature sensor I for Catalyst
- G28 - Engine Speed (RPM) Sensor (00513)
- G70 - Mass Air Flow (MAF) Sensor (00553)
- G72 - Intake Air Temperature (IAT) Sensor (00527)
- J104 - ABS Control Module (w/EDL)
- G132 - Temperature sensor II for Catalyst
- J248 - Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM)
- M9 - Left Brake Light
- T1 - Single Connector
- T1a - Single Connector, behind fuse relay/panel
- T2b - Double Connector, on Data Link Connector (DLC) Wire Connector, behind console
- T2n - Double Connector, behind fuse relay/panel, A/C connection
- T4 - 4-Pin Connector

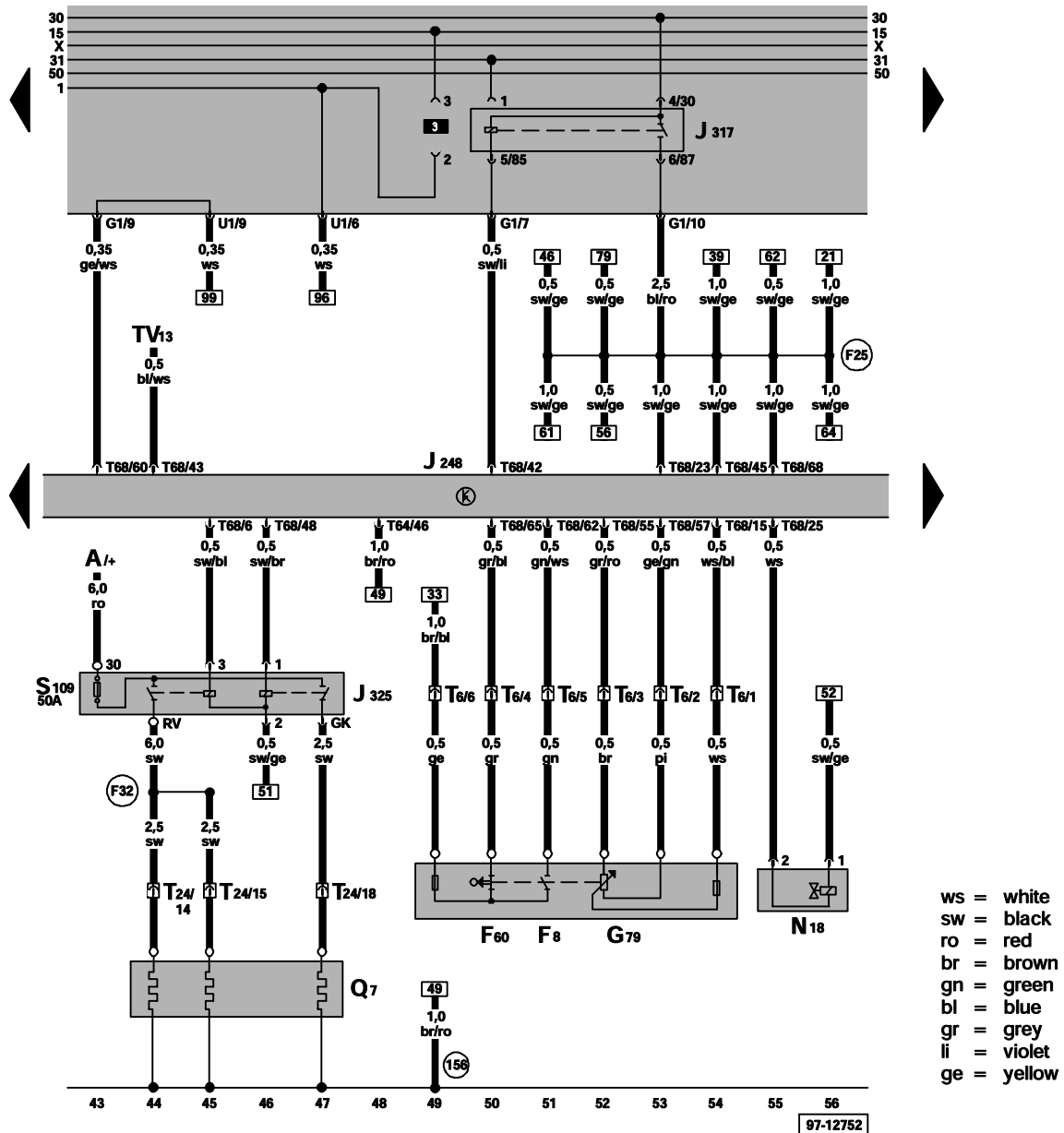
- T8a - 8-Pin Connector, behind fuse relay/panel
- T68 - 68-Pin Connector
- TV14 - Data Link Connector (DLC) wire Connector, behind console
- (156) - Ground connection, in Diesel Direct Fuel Injection (DFI) wiring harness
- (220) - Ground connection (sensor ground), in engine compartment wiring harness
- Automatic transmission only



- E45 - Cruise Control Switch (00671), vehicles with cruise control only
- F4 - Back-Up Light Switch
- F36 - Clutch Vacuum Vent Valve Switch (00650)
- F47 - Brake Vacuum Vent Valve Switch for cruise control/diesel fuel injection (DFI) (00629)
- G80 - Needle Lift Sensor (00542)
- G81 - Fuel Temperature Sensor (00539)
- G149 - Modulating Piston Displacement Sensor (00765)
- J34 - Seat Belt Warning System Relay
- J248 - Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM), in plenum chamber, right
- N146 - Quantity Adjuster (01268)
- T1b - Single Connector, behind fuse/relay panel
- T2d - Double Connector, on left cylinder head, near fuel injection pump
- T4a - 4-Pin Connector, behind steering column switch cover

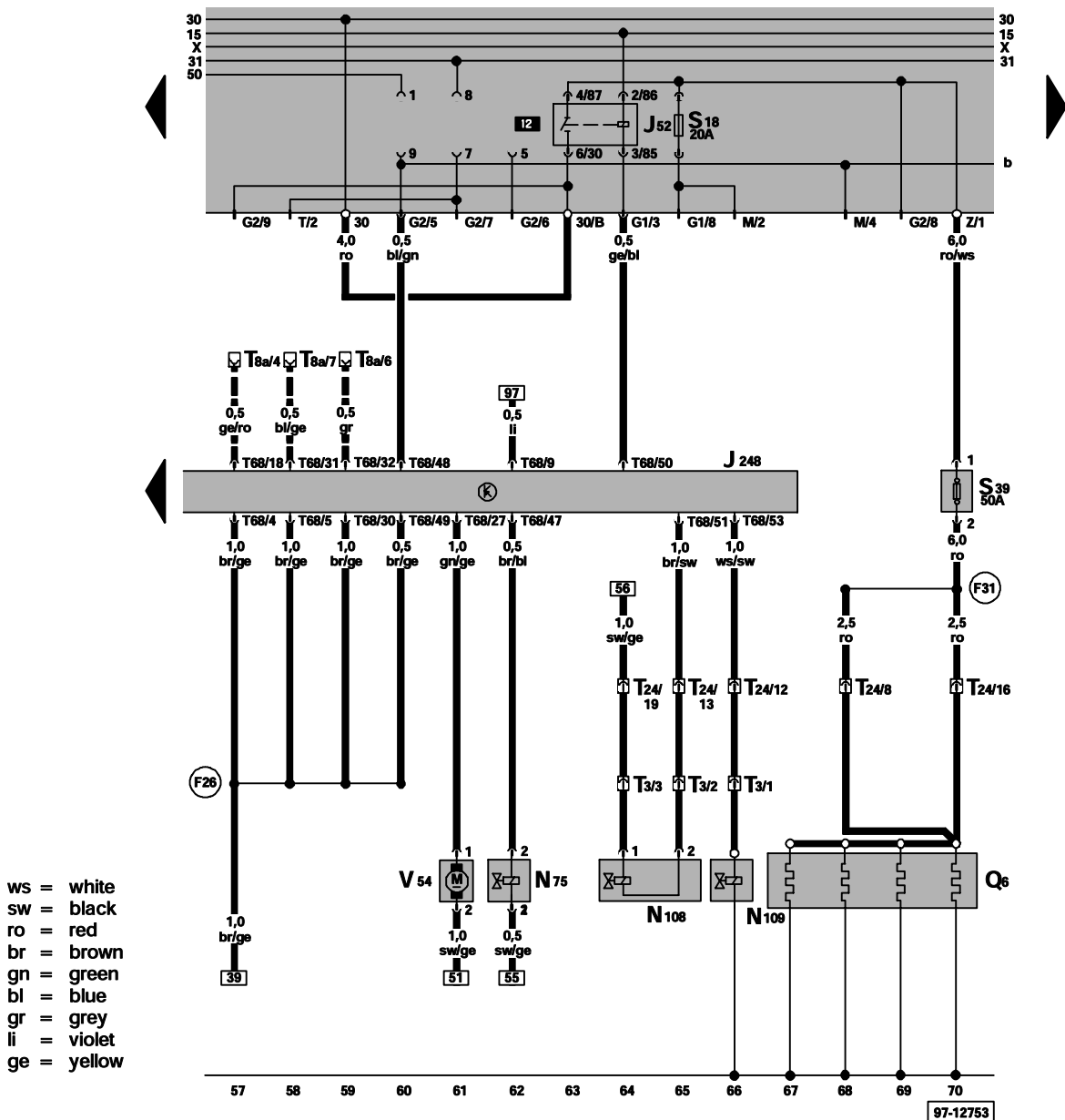
- T4b - 4-Pin Connector, behind fuse/relay panel
 - T8 - 8-Pin Connector, on fuel injection pump
 - T8a - 8-Pin Connector, behind fuse/relay panel
 - T24 - 24-Pin Connector, on left cylinder head
 - T68 - 68-Pin Connector
 - TV5 - Terminal 15a Wire Connector, above fuse/relay panel
-  30 - Ground connection -1-, beside fuse/relay panel
 156 - Ground connection, in Diesel Direct Fuel Injection (DFI) wiring harness
 220 - Ground connection (sensor ground), in engine compartment wiring harness

--- Automatic transmission only



- A - Battery
- F8 - Kick Down Switch, automatic transmission only
- F60 - Closed Throttle Position (CTP) Switch (00516)
- G79 - Throttle Position (TP) Sensor (00777)
- J248 - Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM), in plenum chamber, right
- J317 - Power Supply (Terminal 30, B+) Relay (01054)
- J325 - Coolant Glow Plug Relay (01160)
- N18 - EGR Vacuum Regulator Solenoid Valve (01265)
- Q7 - Spark Plugs (Coolant)
- S109 - Fuse for Glow Plug (Coolant)

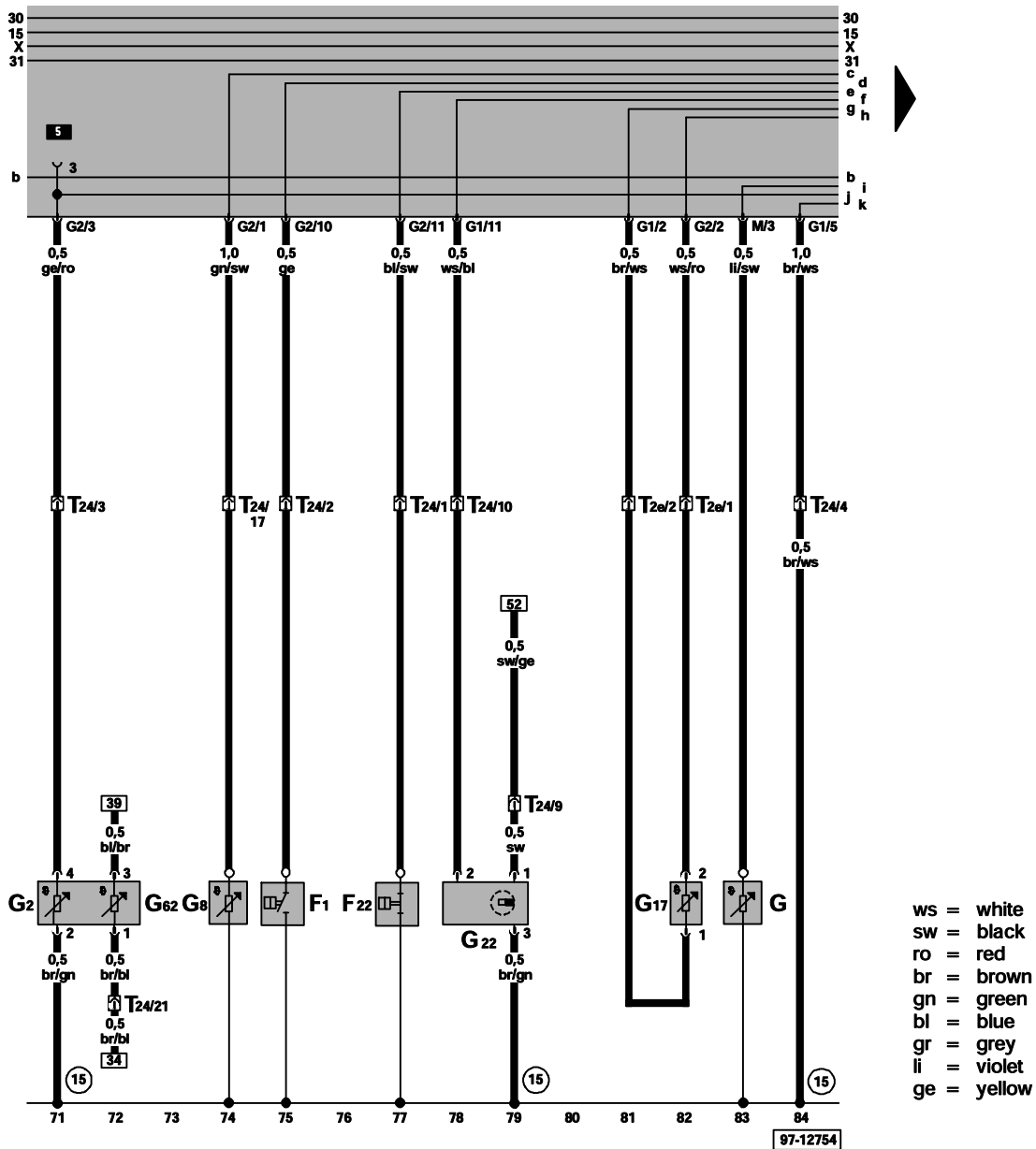
- T6 - 6-Pin Connector, behind fuse/relay panel
- T24 - 24-Pin Connector, on left cylinder head
- T68 - 68-Pin Connector, on Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM)
- TV13 - Vehicle Speed Signal Wire Connector, above fuse/relay panel
- (F25) - Wire connection -1-, in Diesel Direct Fuel Injection (DFI) system wiring harness
- (F32) - Wire connection (coolant glow plug), in Diesel Direct Fuel Injection (DFI) system wiring harness
- (156) - Ground connection, in Diesel Direct Fuel (DFI) wiring harness








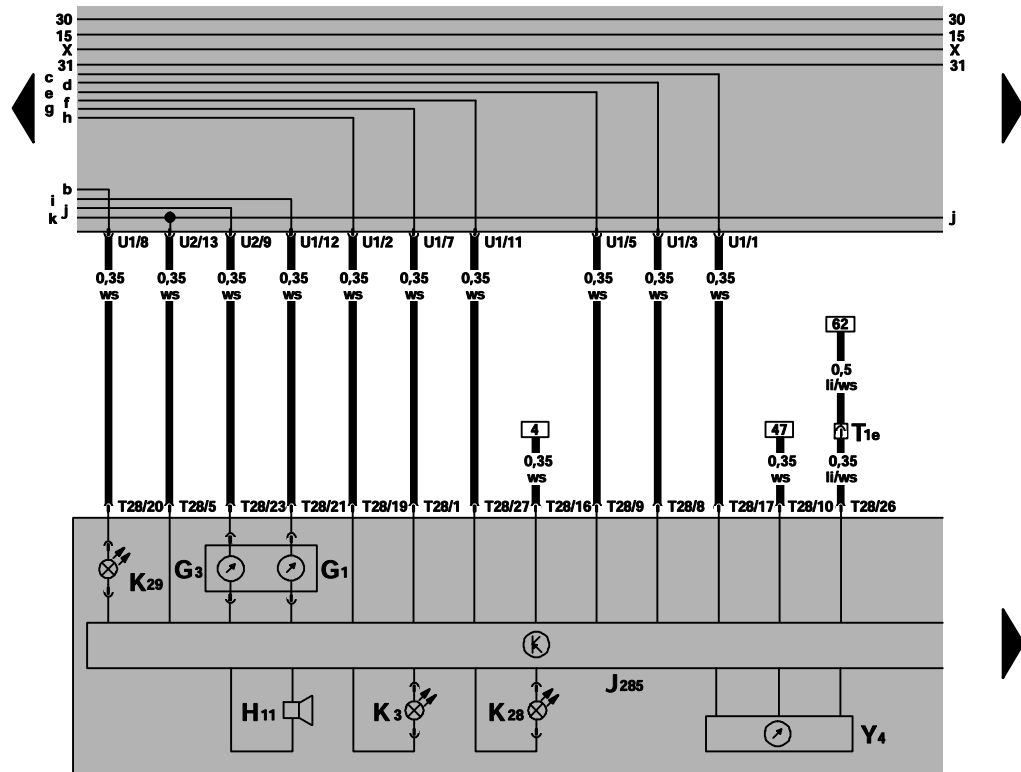
- J52 – Glow Plug Relay (01266)
- J248 – Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM), in plenum chamber, right
- N75 – Wastegate Bypass Regulator Valve (01262)
- N108 – Cold Start Injector (01269)
- N109 – Fuel Cut-Off Valve (01237)
- Q6 – Glow Plug (Engine)
- S39 – Glow Plug 50A Fuse Strip, on firewall, left
- T3 – 3-Pin Connector, near fuel injection pump
- T8a – 8-Pin Connector, behind fuse/relay panel
- T24 – 24-Pin Connector, on left cylinder head
- T68 – 68-Pin Connector, on Diesel Direct Fuel Injection (DFI) Engine Control Module (ECM)
- V54 – Metering Pump

- (F26) – Wire connection –2–, in Diesel Direct Fuel Injection (DFI) system wiring harness
- (F31) – Wire connection (engine glow plugs), in Diesel Direct Fuel Injection (DFI) system wiring harness

— — — Automatic transmission only



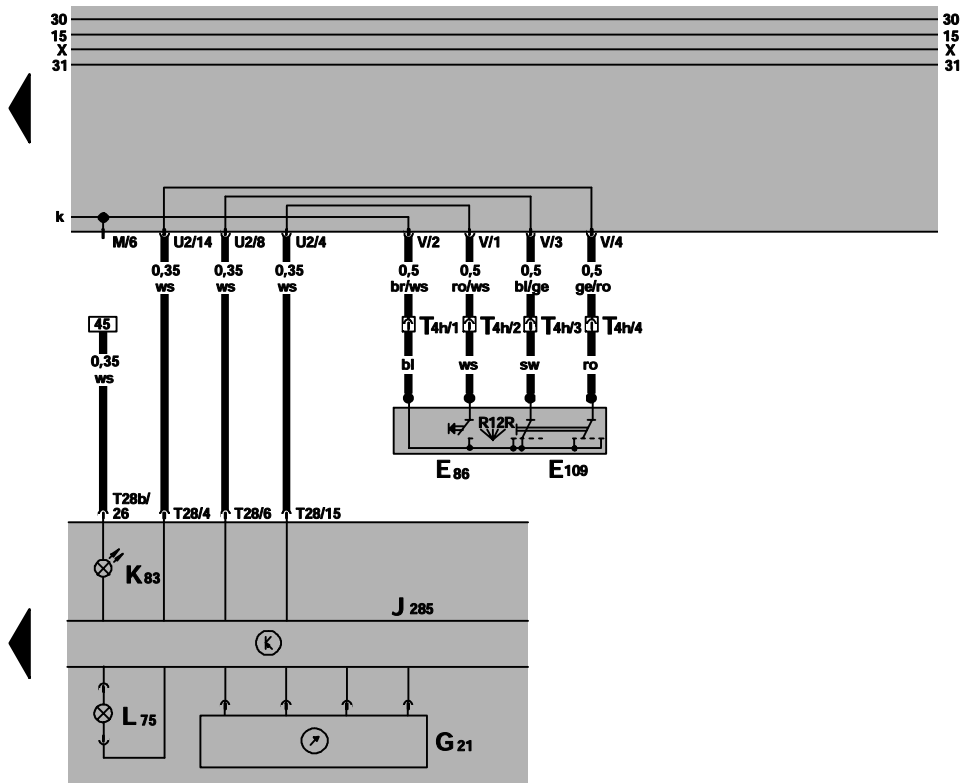
- F1 – Oil Pressure Switch
- F22 – 0.3 Bar Oil Pressure Switch
- G – Fuel Level Sensor (00771)
-  G2 – Engine Coolant Temperature (ECT) Sensor (01039)
- G8 – Oil Temperature Sensor (00534)
-  G17 – Outside Air Temperature Sensor (00779)
-  G22 – Speedometer Vehicle Speed Sensor (VSS), (hall sensor, on transmission)
-  G62 – Engine Coolant Temperature (ECT) Sensor (00522)
- T2e – Double Connector, in engine compartment, right front
- T24 – 24-Pin Connector, on left cylinder head
-  (15) – Ground connection, on cylinder head



- ws = white
- sw = black
- ro = red
- br = brown
- gn = green
- bl = blue
- gr = grey
- li = violet
- ge = yellow

85 86 87 88 89 90 91 92 93 94 95 96 97 98 97-12755

- G1 – Fuel Gauge (00664)
- G3 – Engine Coolant Temperature (ECT) Gauge
- H11 – Oil Pressure Warning Buzzer
- J285 – Control Module With Display Unit In Instrument Cluster
- K3 – Oil Pressure Warning Light (00755)
- K28 – Engine Coolant Level/Temperature (ECL/ECT) Warning Light
- K29 – Glow Plug Indicator Light (00626)
- T1e – Single Connector, multi-function indicator signal
- T28 – 28-Pin Connector, on instrument cluster
- Y4 – Odometer Display



ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = violet
 ge = yellow

99 100 101 102 103 104 105 106 107 108 109 110 111 112
 97-12756

- E86 – Multi-Function Indicator Mode Select Switch
- E109 – Multi-Function Indicator Memory Switch
- G21 – Speedometer (00663)
- J285 – Control Module With Display Unit In Instrument Cluster
- K83 – Malfunction Indicator Lamp (MIL)
- L75 – Digital Display Light
- T4h – 4-Pin Connector, behind steering column switch cover
- T28 – 28-Pin Connector, on instrument cluster