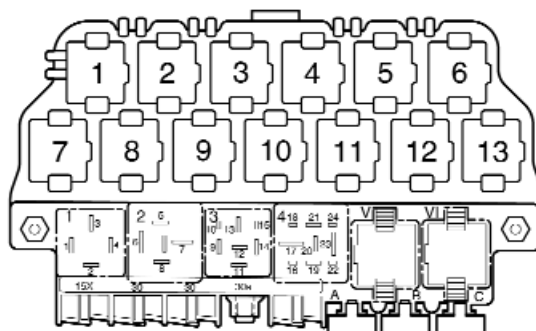


1.8L - Engine - Motronic Multiport Fuel Injection (MFI)/110 kW, code AWD,

from November 1999

Deviate relay location and fuse placements as well as the locations of multiple connectors see section "component locations".



97-14163

Relay location on the thirteenfold auxiliary relay panel, above relay panel:

Relay panel:

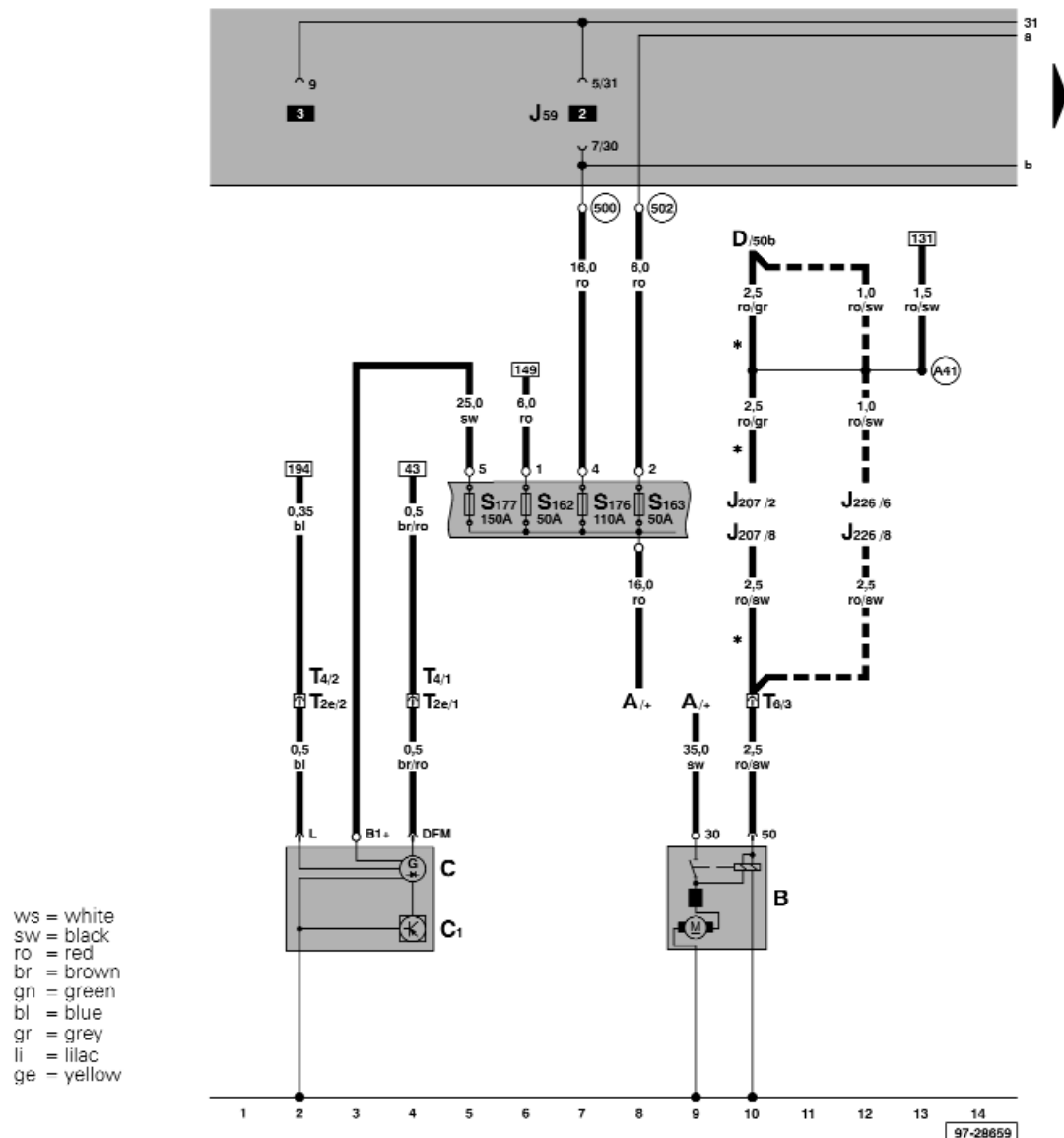
- 2** Load Reduction Relay (100)
- 4** Fuel Pump (FP) Relay (109)

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

Fuse colors

- 30 A - green
- 25 A - white
- 20 A - yellow
- 15 A - blue
- 10 A - red
- 7.5 A - brown
- 5 A - beige
- 3 A - violet

Edition 12/00
USA.5102.09.21

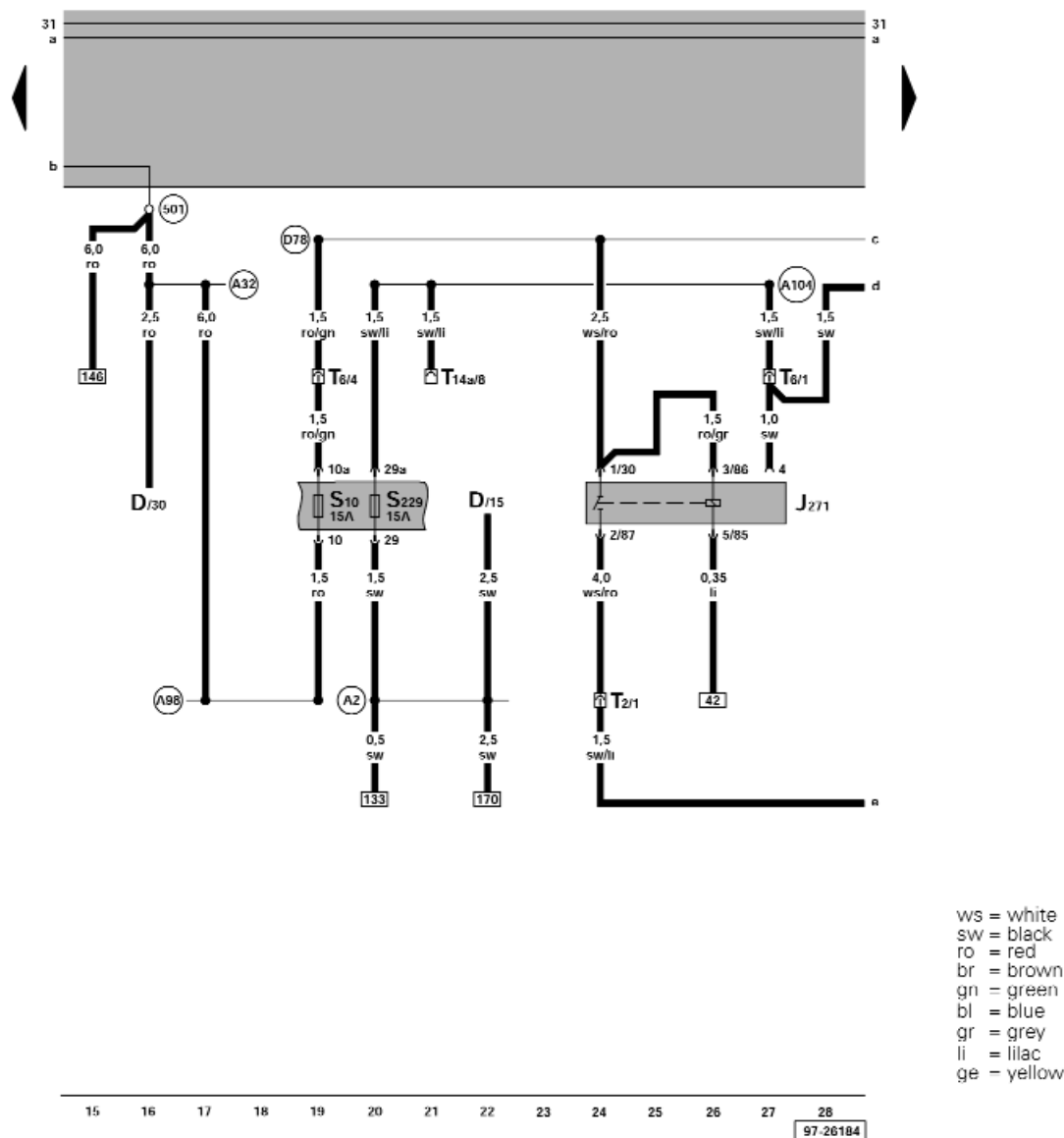


- A - Battery
- B - Starter
- C - Generator (GEN)
- C1 - Voltage Regulator (VR)
- D - Ignition/Starter Switch
- J59 - Load Reduction Relay
- J207 - Starting Interlock Relay
- J226 - Park/Neutral Position (PNP) Relay
- S162 - Fuse -1- (30) in fuse bracket/battery
- S163 - Fuse -2- (30) in fuse bracket/battery
- S176 - Fuse -4- (30) in fuse bracket/battery
- S177 - Fuse -5- (30) in fuse bracket/battery
- T2e - Double Connector, near starter (vehicles without air conditioning)
- T4 - 4-Pin Connector, near starter (vehicles with air conditioning only)

- T6 - 6 Pin Connector, brown, in protective housing for connectors, in plenum chamber, left

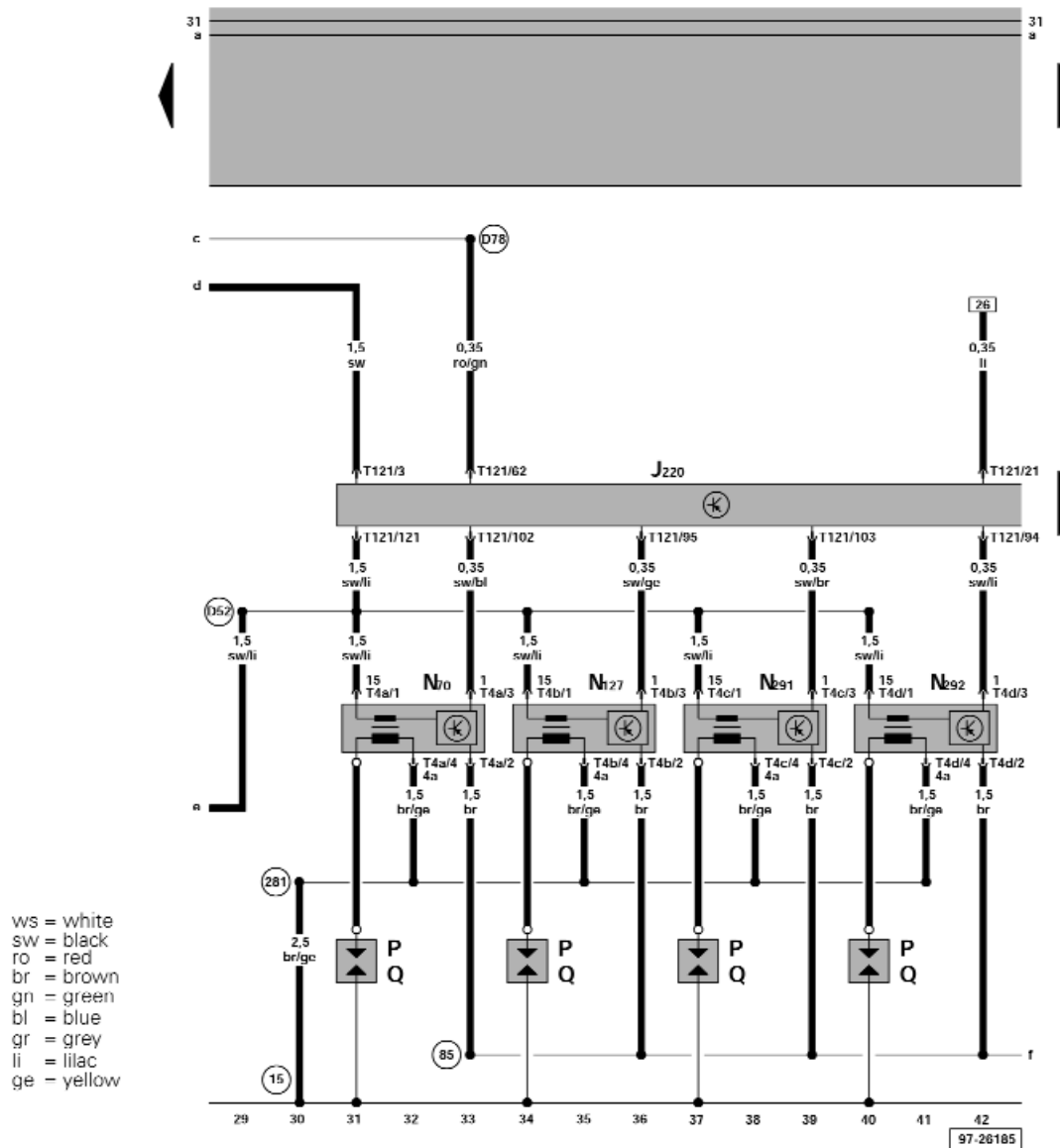
- (500) - Threaded connection -1- (30) on the relay plate
- (502) - Threaded connection -1- (30a) on the relay plate
- (A41) - Plus connection (50), in instrument panel wiring harness

- * - Manual transmission only
- Automatic transmission only



- D - Ignition/Starter Switch
J271 - Motronic engine control module (ECM) power supply relay, in protective housing, in engine compartment, left, production control number (428)
S10 - Fuse 10 in fuse holder
S229 - Fuse 29 in fuse holder
T2 - 2-Pin Connector, in engine compartment, left
T6 - 6-Pin Connector, brown, in protective housing for connectors, in plenum chamber, left
T14a - 14-Pin Connector, in engine compartment, in wiring duct, left
(501) - Threaded connection -2- (30) on the relay plate

- (A2) - Plus connection (15), in instrument panel wiring harness
(A32) - Plus connection (30), in instrument panel wiring harness
(A98) - Plus connector -4- (30), in instrument panel wiring harness
(A104) - Plus connector -2- (15), in instrument panel wiring harness
(D78) - Plus connector -1- (30a), in engine compartment wiring harness



J220 - Motronic Engine Control Module (ECM), in plenum chamber, center

N70 - Ignition Coil 1 with Power Output Stage

N127 - Ignition Coil 2 with Power Output Stage

N291 - Ignition Coil 3 with Power Output Stage

N292 - Ignition Coil 4 with Power Output Stage

P - Spark Plug Connectors

Q - Spark Plugs

T4a - 4-Pin Connector

T4b - 4-Pin Connector

T4c - 4-Pin Connector

T4d - 4-Pin Connector

T121 - Connector, 121 point

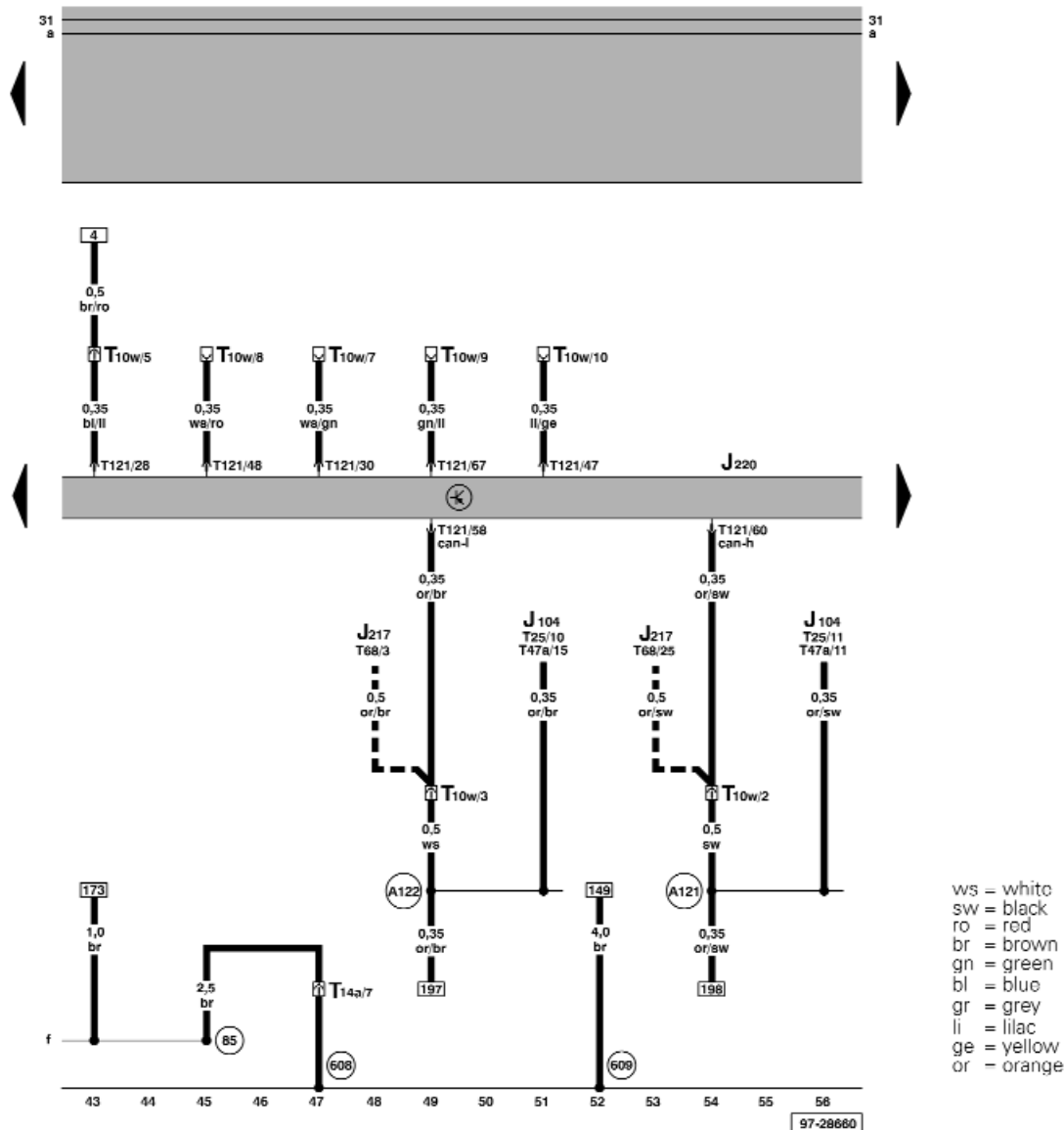
(15) - Ground connection, on cylinder head

(85) - Ground connection -1-, in engine compartment wiring harness

(281) - Ground connector -1-, in wiring harness engine pre-wiring

(D52) - Plus connector (15a), in engine compartment wiring harness

(D78) - Plus connector -1- (30a), in engine compartment wiring harness



- J104 - ABS Control Module (w/EDL), in engine compartment, left
J217 - Transmission Control Module (TCM), in plenum chamber, center
J220 - Motronic Engine Control Module (ECM), in plenum chamber, center
T10w- 10-Pin Connector, white, in protective housing for connectors, in plenum chamber, left
T14a- 14-Pin Connector, in engine compartment, in wiring duct, left
T25 - 25-Pin Connector, on ABS Control Module (through July 2000)
T47a - 47-Pin Connector, on ABS Control Module (beginning August 2000)

T68 - 68-Pin Connector, on Transmission Control Module (TCM)

T121 - Connector, 121 point

85 - Ground connection -1-, in engine compartment wiring harness

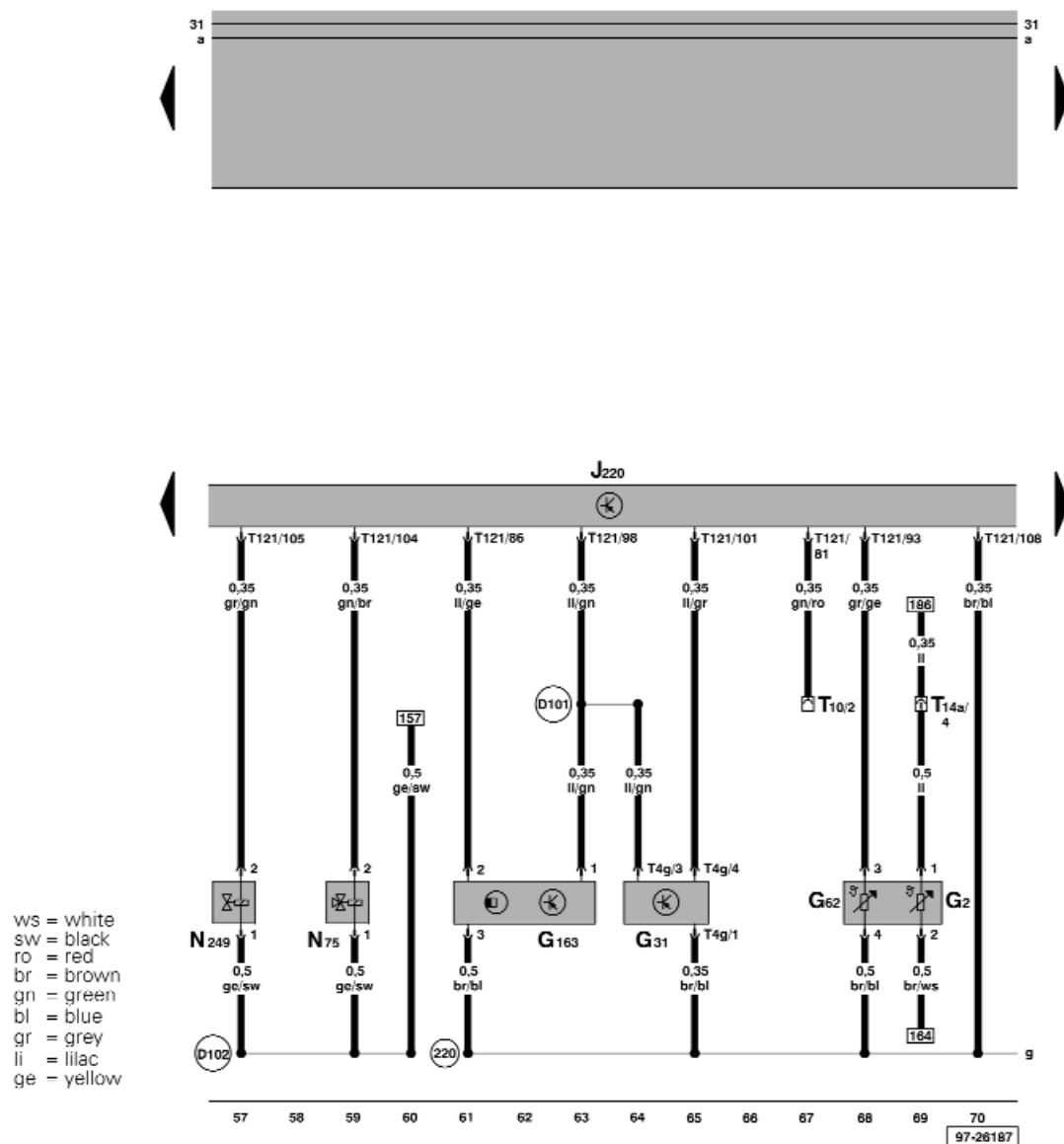
608 - Ground Connection (in center plenum chamber)

609 - Ground Connection (in right plenum chamber)

A121 - Connection (high bus), in instrument panel wiring harness

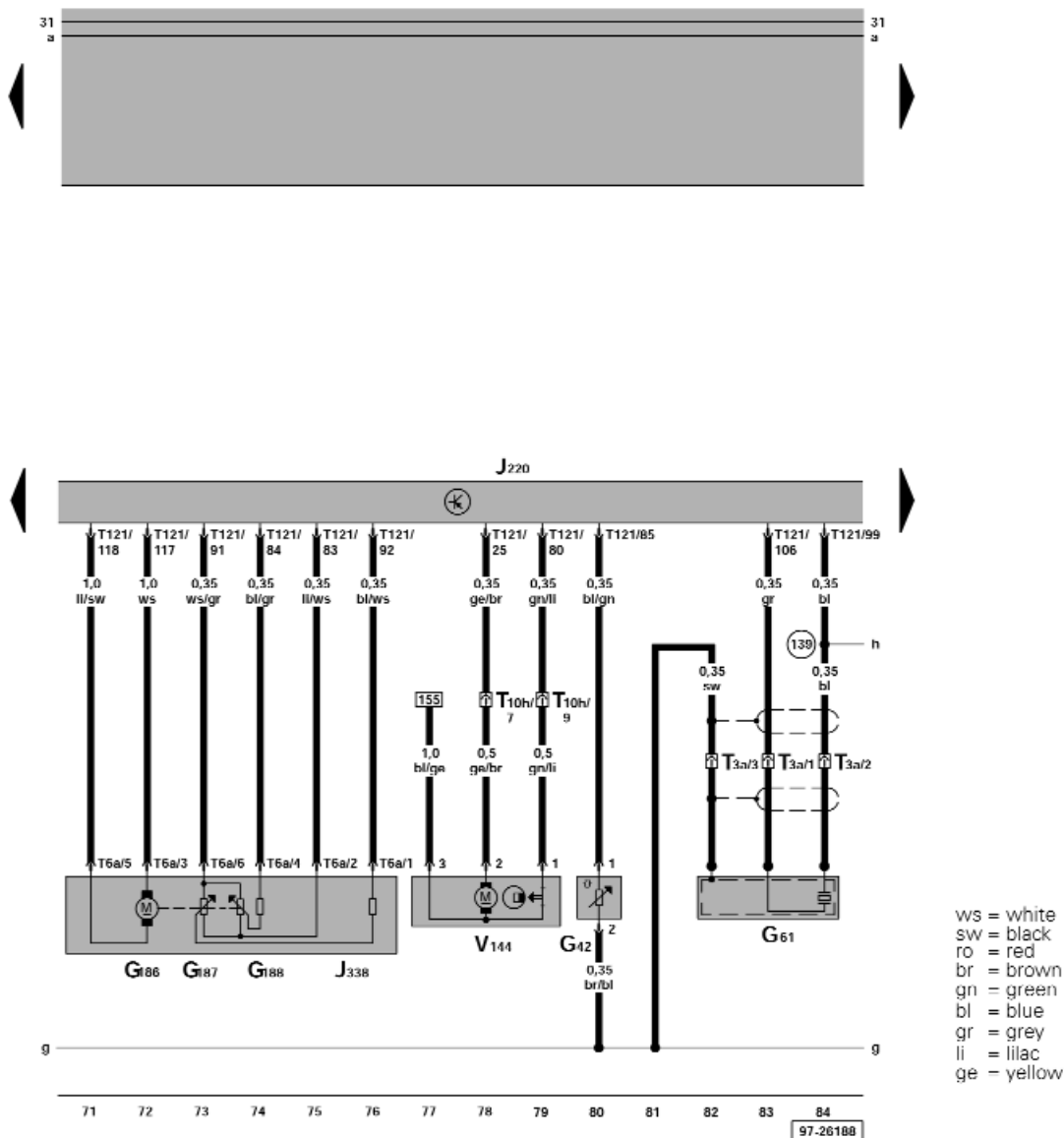
A122 - Connection (low bus), in instrument panel wiring harness

--- Automatic transmission only



- G2 - Engine Coolant Temperature (ECT) Sensor
- G31 - Charge Air Pressure Sensor
- G62 - Engine Coolant Temperature (ECT) Sensor
- G163 - Camshaft Position (CMP) Sensor 2
- J220 - Motronic Engine Control Module (ECM), in plenum chamber, center
- N75 - Wastegate Bypass Regulator Valve
- N249 - Recirculating valve for turbocharger
- T4g - 4-Pin Connector
- T10 - 10-Pin Connector, orange, in protective housing for connectors, in plenum chamber, left
- T14a - 14-Pin Connector, in engine compartment, in wiring duct, left
- T121 - Connector, 121 point

- (220) - Ground connection (sensor ground), in engine compartment wiring harness
- (D101) - Wire connection -1-, in engine compartment wiring harness
- (D102) - Wire connection -2-, in engine compartment wiring harness



G42 - Intake Air Temperature (IAT) Sensor

G61 - Knock Sensor (KS) 1

G186 - Throttle drive (power accelerator actuation)

G187 - Angle sensor -1- for throttle drive (power accelerator actuation)

G188 - Angle sensor -2- for throttle drive (power accelerator actuation)

J220 - Motronic Engine Control Module (ECM), in plenum chamber, center

J338 - Throttle Valve Control Module

T3a - 3-Pin Connector, in engine compartment, front

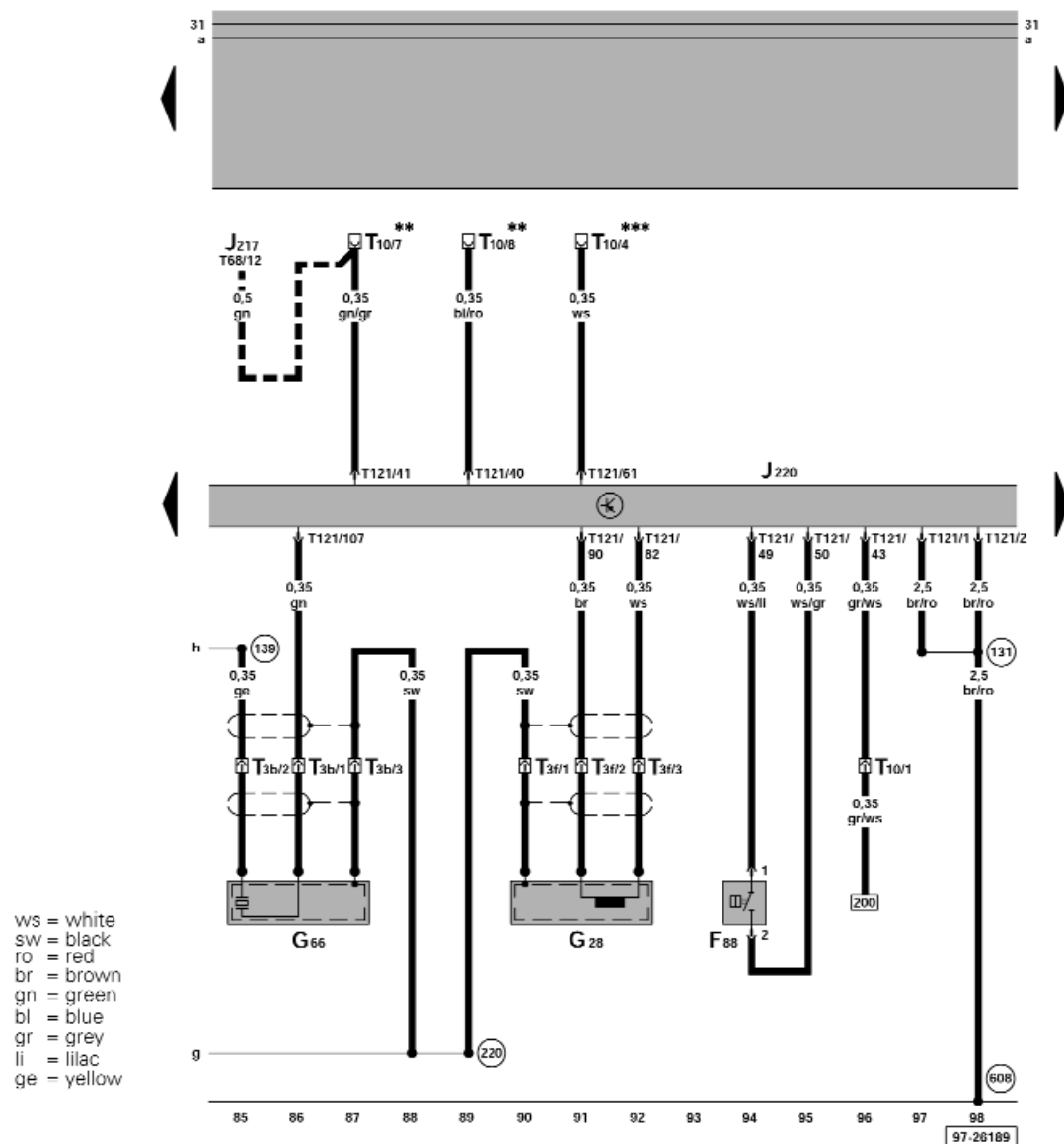
T6a - 6-Pin Connector

T10h - 10-Pin Connector, blue, in protective housing for connectors, in plenum chamber, left

T121 - Connector, 121 point

V144 - Leak detection pump (LDP)

(139) - Ground connection (sensor Ground), in Motronic Multiport Fuel Injection (MFI) wiring harness



F88 - Pressure switch/power steering

G28 - Engine Speed (RPM) Sensor

G66 - Knock Sensor (KS) 2

J217 - Transmission Control Module (TCM), in plenum chamber, center

J220 - Motronic Engine Control Module (ECM), in plenum chamber, center

T3b - 3-Pin Connector, in engine compartment, front

T3f - 3-Pin Connector, in engine compartment, front

T10 - 10-Pin Connector, orange, in protective housing for connectors, in plenum chamber, left

T68 - Connector, 68 point

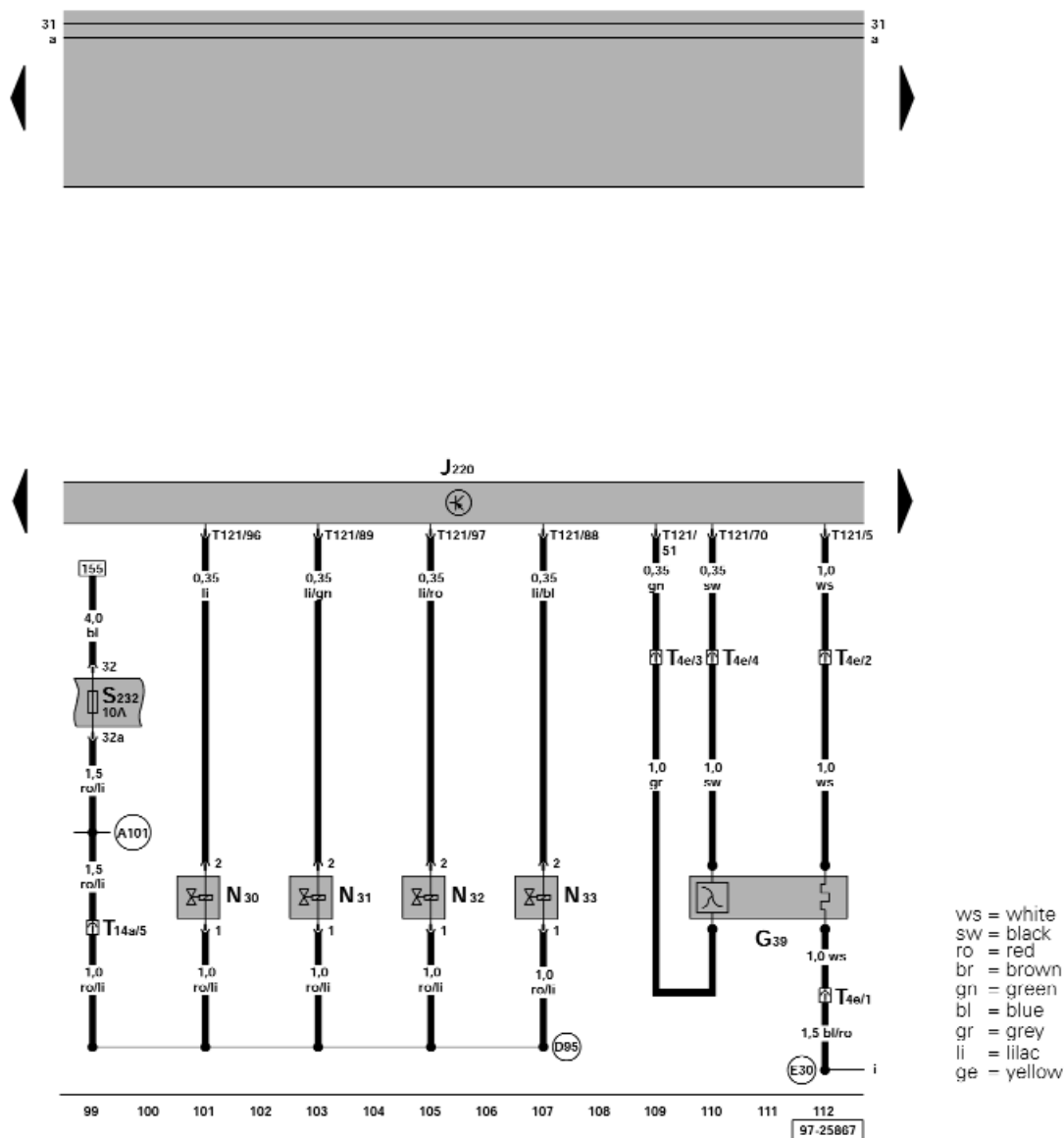
T121 - Connector, 121 point

131 - Ground connection -2-, in engine compartment wiring harness

Motronic engine control module (ECM), pressure switch/power steering, engine speed (RPM) sensor, knock sensor (KS) 2

Edition 11/99

USA.5102.05.21



G39 - Heated Oxygen Sensor (HO2S)
 J220 - Motronic Engine Control Module (ECM), in plenum chamber, center

N30 - Cylinder 1 Fuel Injector

N31 - Cylinder 2 Fuel Injector

N32 - Cylinder 3 Fuel Injector

N33 - Cylinder 4 Fuel Injector

S232 - Fuse 32 in fuse holder

T4e - 4-Pin Connector, in protective housing for connectors under right floor

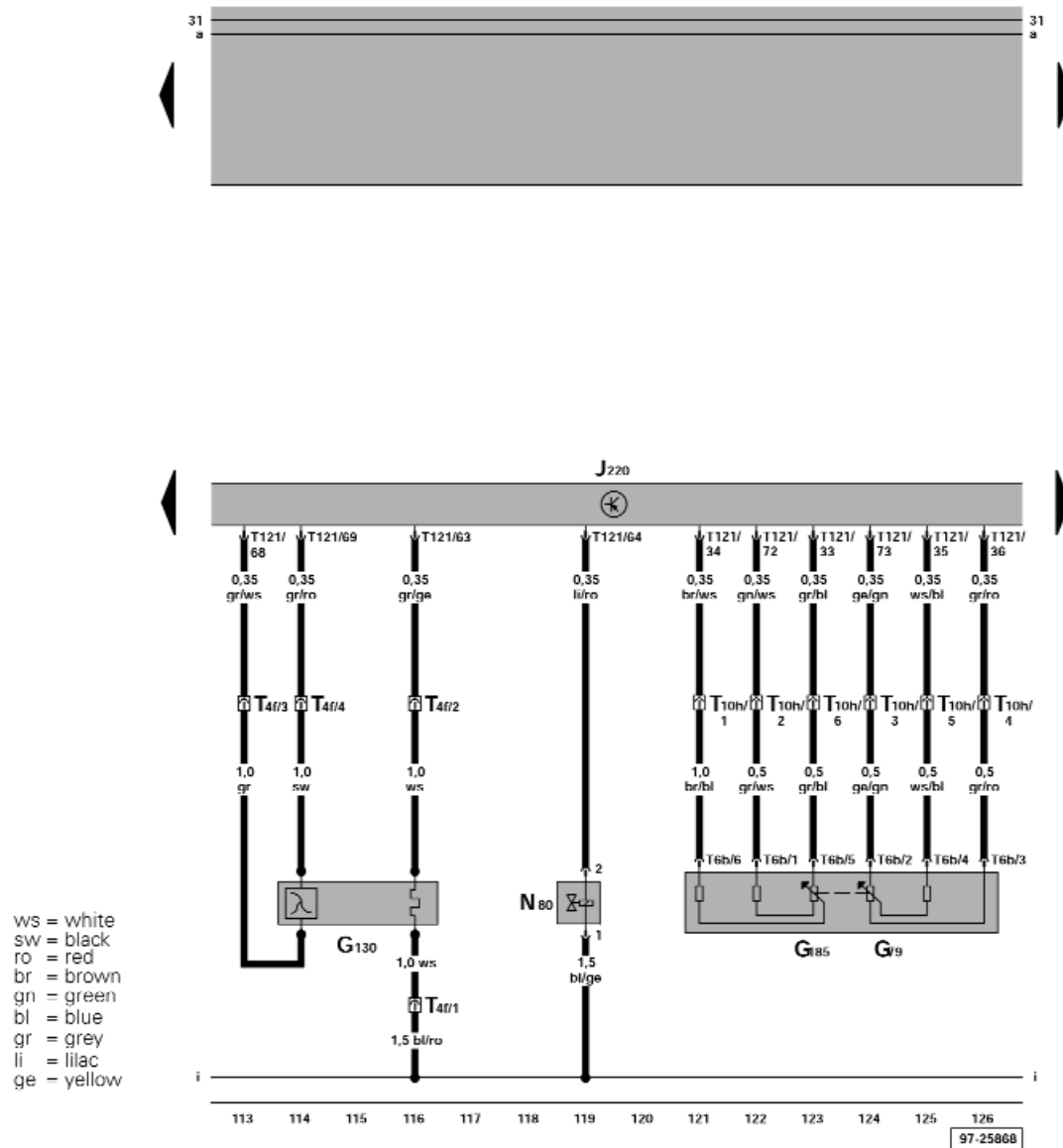
T14a - 14-Pin Connector, in engine compartment, in wiring duct, left

T121 - Connector, 121 point

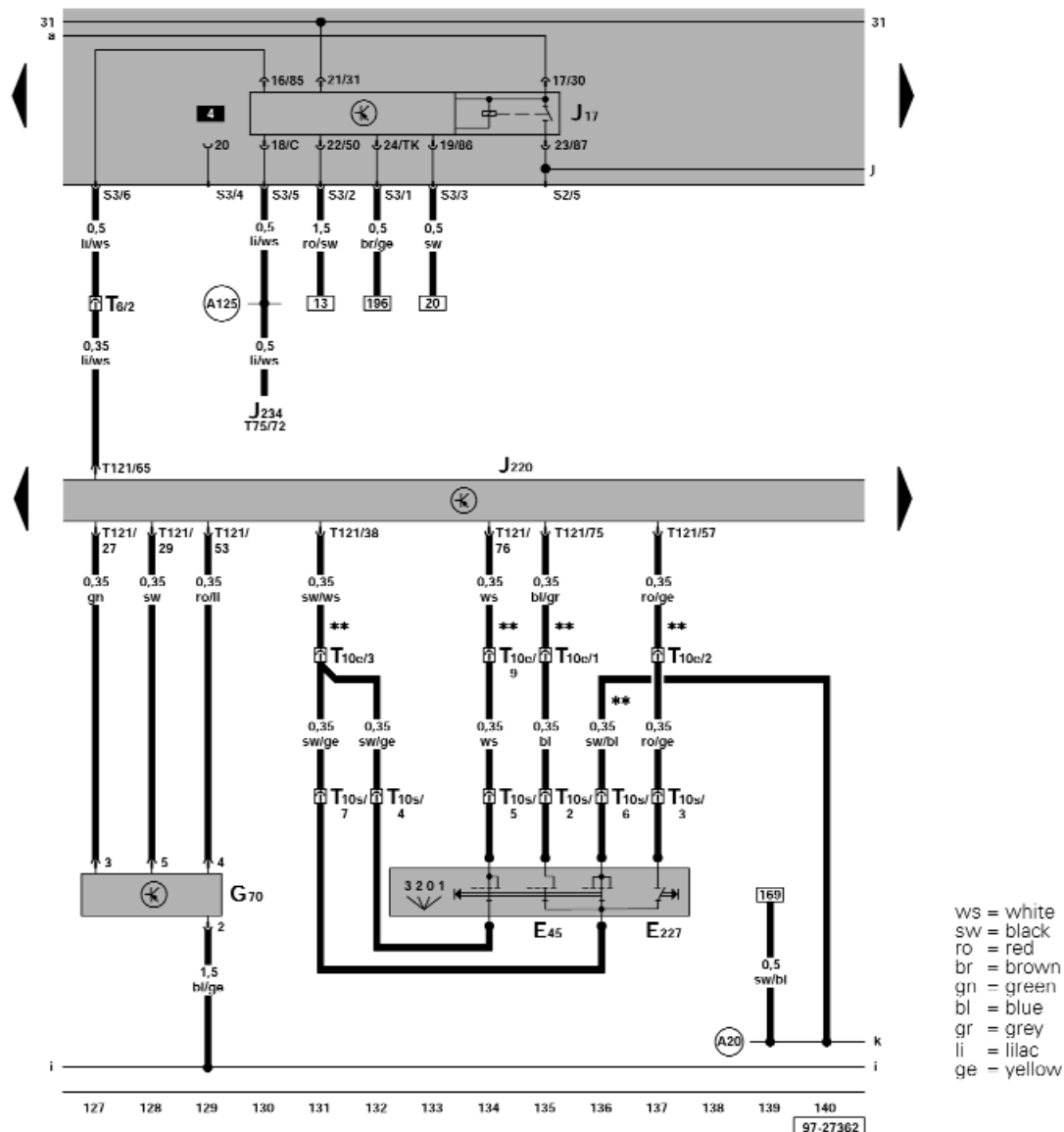
A101 - Connector -3- (87a), in instrument panel wiring harness

D95 - Wire connection (injectors), in engine compartment wiring harness

E30 - Connector (87a), in wiring harness engine



- G79 - Throttle Position (TP) Sensor
- G130 - Oxygen Sensor (O2S) behind Throce Way Catalytic Converter (TWC)
- G185 - Sender -2- for accelerator pedal position
- J220 - Motronic Engine Control Module (ECM), in plenum chamber, center
- N80 - Evaporative Emission (EVAP) Canister Purge Regulator Valve
- T4f - 4-Pin Connector, in protective housing for connectors under right floor
- T6b - 6-Pin Connector
- T10h - 10-Pin Connector, blue, in protective housing for connectors, in plenum chamber, left
- T121 - Connector, 121 point

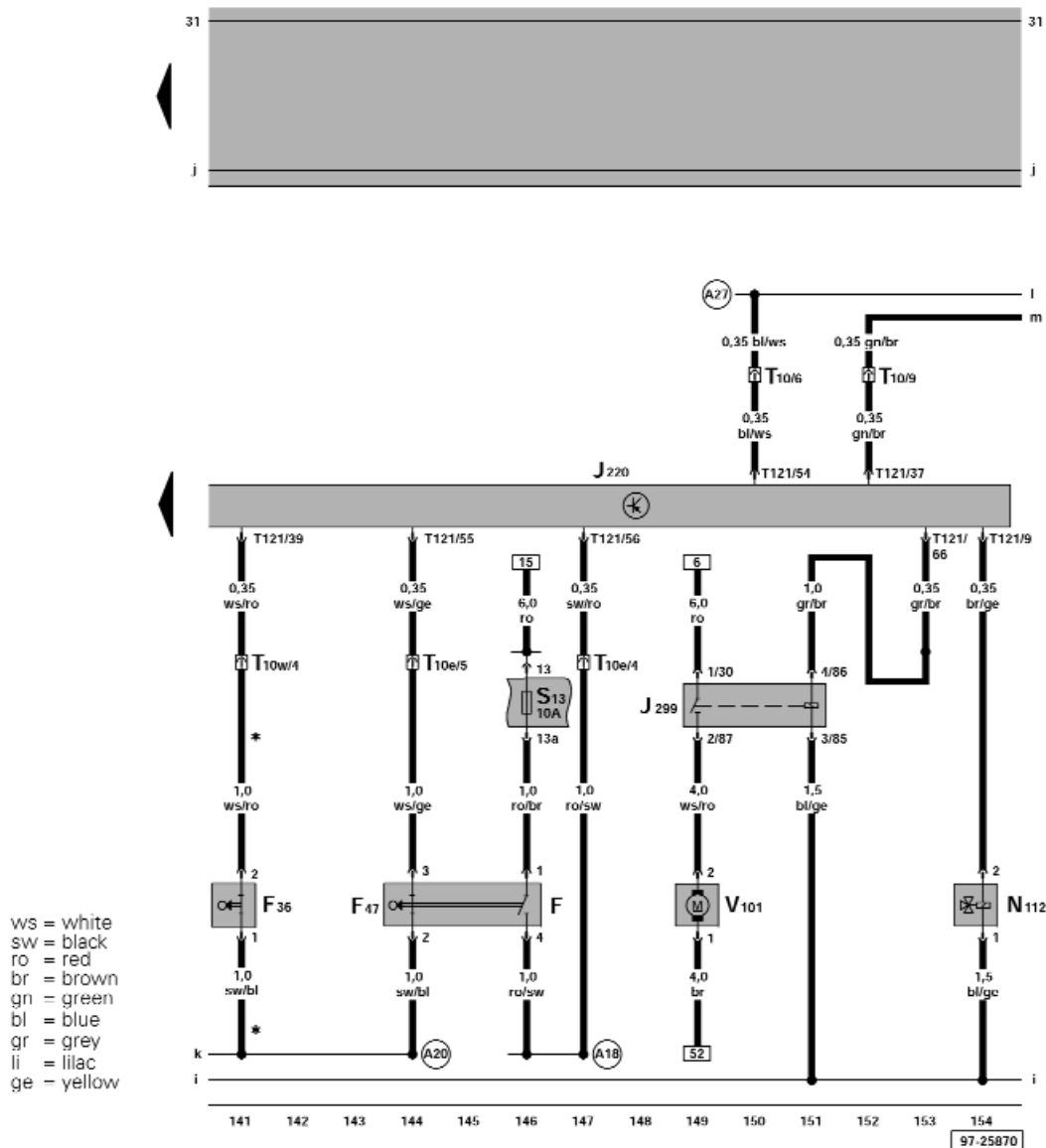


- L45 - Cruise Control Switch**
- E227 - Cruise Control Push Button (SET)**
- G70 - Mass Air Flow (MAF) Sensor
- J17 - Fuel Pump (FP) Relay
- J220 - Motronic Engine Control Module (ECM), in plenum chamber, center
- J234 - Airbag Control Module
- T6 - 6-Pin Connector, brown, in protective housing for connectors, in plenum chamber, left
- T10e - 10-Pin Connector, black, in protective housing for connectors, in plenum chamber, left
- T10s - 10-Pin Connector, near steering column
- T75 - 75-Pin Connector
- T121 - Connector, 121 point

- A20** - Wire connection (15a), in instrument panel wiring harness
- A125** - Connection (crash signal) in instrument panel wiring harness
- **** - Vehicles with cruise control only

Edition 06/00
USA.5102.06.21

Motronic engine control module (ECM), fuel pump (FP) relay, cruise control switch, mass air flow (MAF) sensor

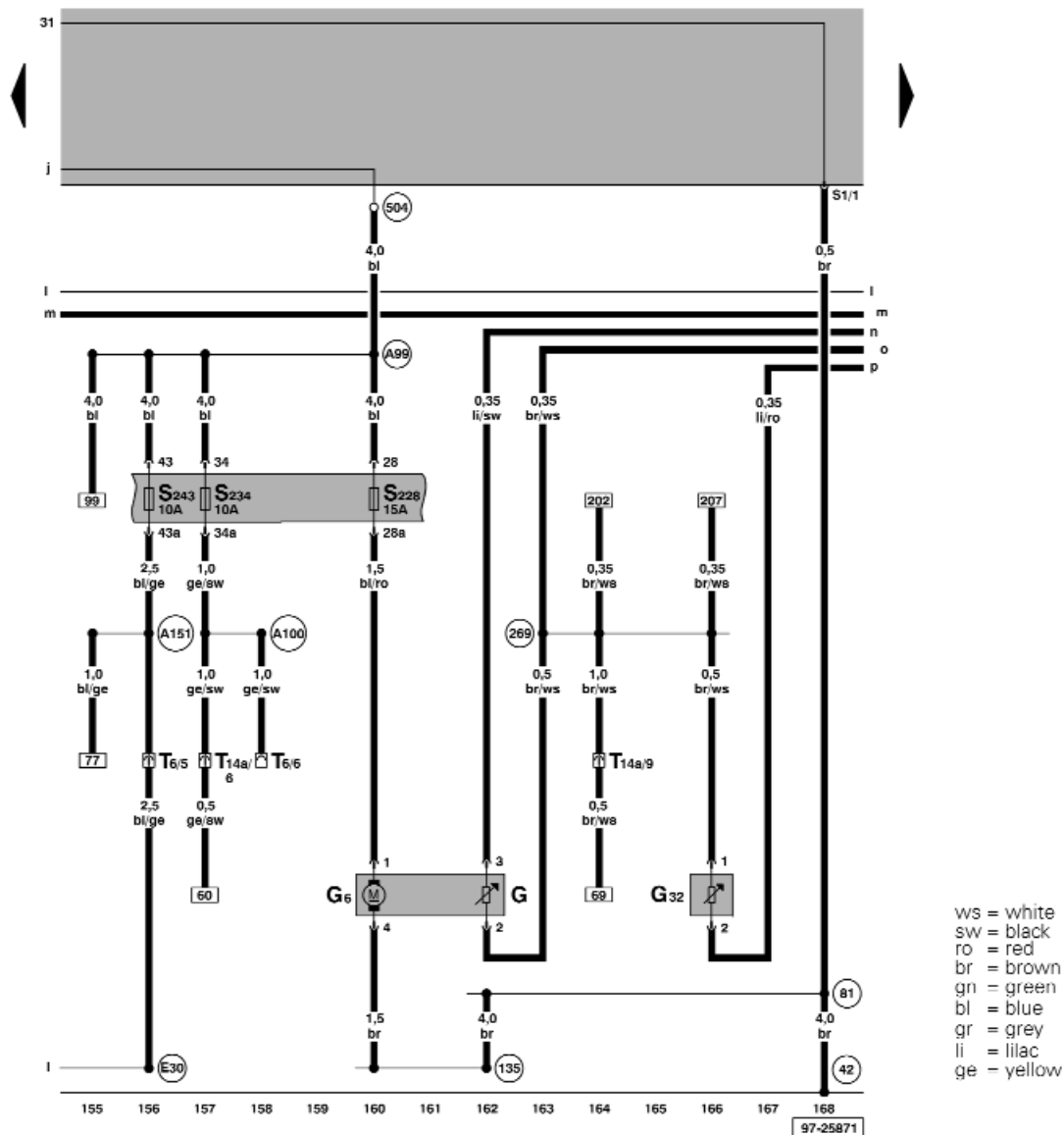


- F - Brake Light Switch
- F36 - Clutch Vacuum Vent Valve Switch
- F47 - Brake Vacuum Vent Valve Switch for cruise control
- J220 - Motronic Engine Control Module (ECM), in plenum chamber, center
- J299 - Secondary Air Injection (AIR) Pump Relay, in protective housing, in engine compartment, left, production control number (100)
- N112 - Secondary Air Injection (AIR) Solenoid Valve
- S13 - Fuse 13 in fuse holder
- T10 - 10-Pin Connector, orange, in protective housing for connectors, in plenum chamber, left
- T10e - 10-Pin Connector, black, in protective housing for connectors, in plenum chamber, left

- T10w - 10-Pin Connector, white, in protective housing for connectors, in plenum chamber, left
- T121 - Connector, 121 point
- V101 - Secondary Air Injection (AIR) Pump Motor

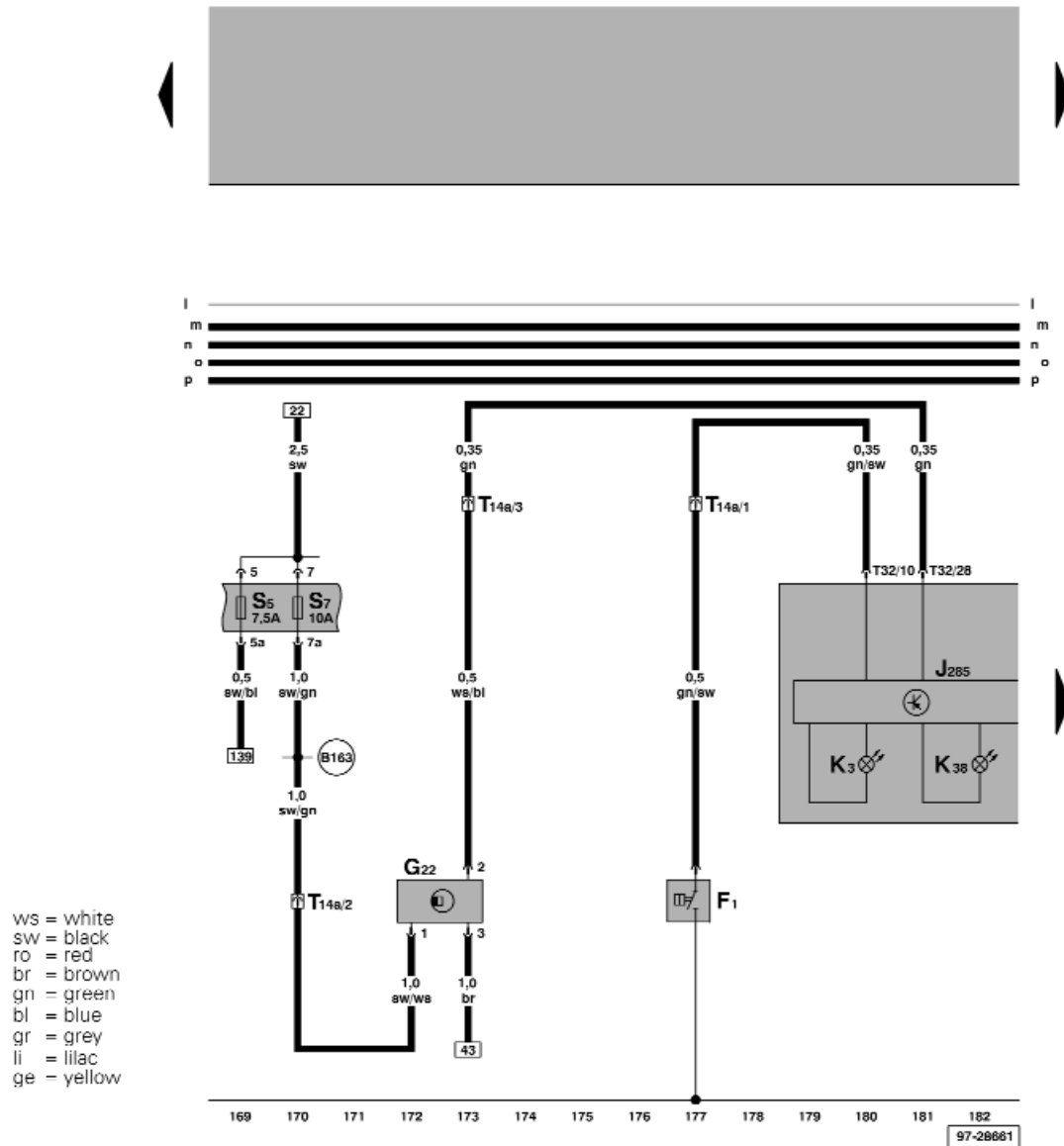
- (A18) - Wire connection (54), in instrument panel
- (A20) - Wire connection (15a), in instrument panel wiring harness
- (A27) - Wire Connection (vehicle speed signal), in instrument panel wiring harness

* - Manual transmission only



- G - Fuel Level Sensor
- G6 - Fuel Pump (FP)
- G32 - Engine Coolant Level (ECL) Sensor
- S228 - Fuse 28 in fuse holder
- S234 - Fuse 34 in fuse holder
- S243 - Fuse 43 in fuse holder
- T6 - 6-Pin Connector, brown, in protective housing for connectors, in plenum chamber, left
- T14a - 14-Pin Connector, in engine compartment, in wiring duct, left
- (42) - Ground connection, beside steering column
- (81) - Ground connection -1-, in instrument panel wiring harness

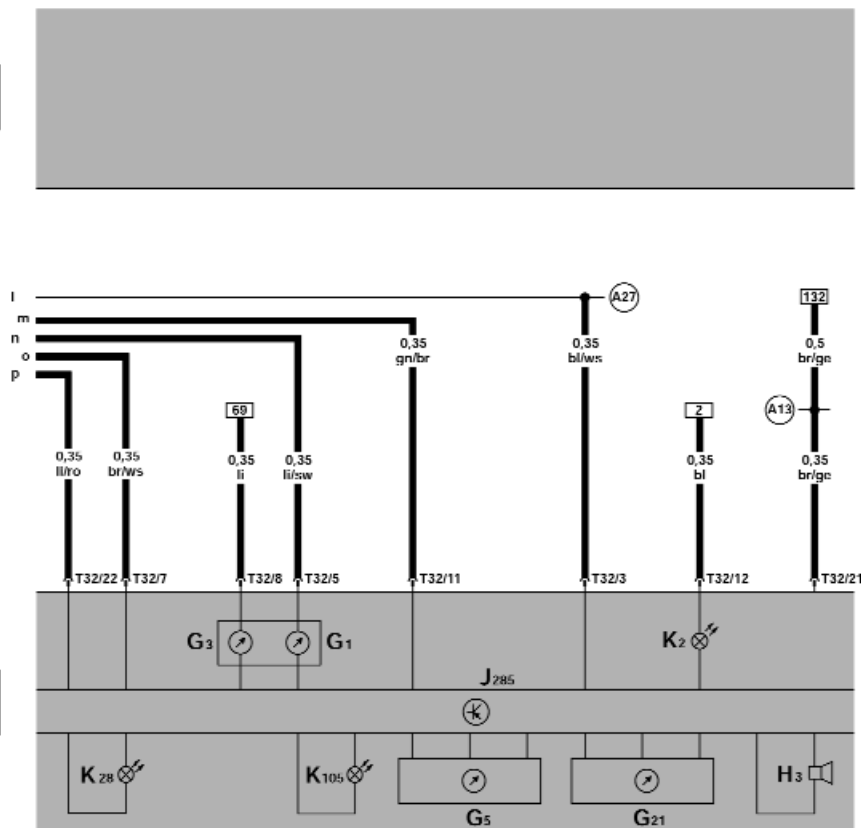
- (135) - Ground connection -2-, in instrument panel wiring harness
- (269) - Ground connection (sensor ground) -1-, in instrument panel wiring harness
- (504) - Threaded connection -1- (87) on the relay plate
- A99 - Connector -1- (87), in instrument panel wiring harness
- A100 - Connector -2- (87), in instrument panel wiring harness
- A151 - Connector -4- (87), in instrument panel wiring harness
- E30 - Connector (87a), in wiring harness engine



- F1 - Oil Pressure Switch
 G22 - Speedometer Vehicle Speed Sensor (VSS)
 J285 - Control module with indicator unit in instrument panel insert
 K3 - Oil Pressure Warning Light
 K38 - Engine Oil Level Indicator Light
 S5 - Fuse 5 in fuse holder
 S7 - Fuse 7 in fuse holder
 T14a - 14-Pin Connector, in engine compartment, in wiring duct, left
 T32 - 32-Pin Connector, blue
 (B163) - Plus connector -1- (15) in wiring harness interior

Instrument cluster, oil pressure switch, speedometer vehicle speed sensor (VSS),
 oil pressure warning light

Edition 12/00
 USA.5102.09.21



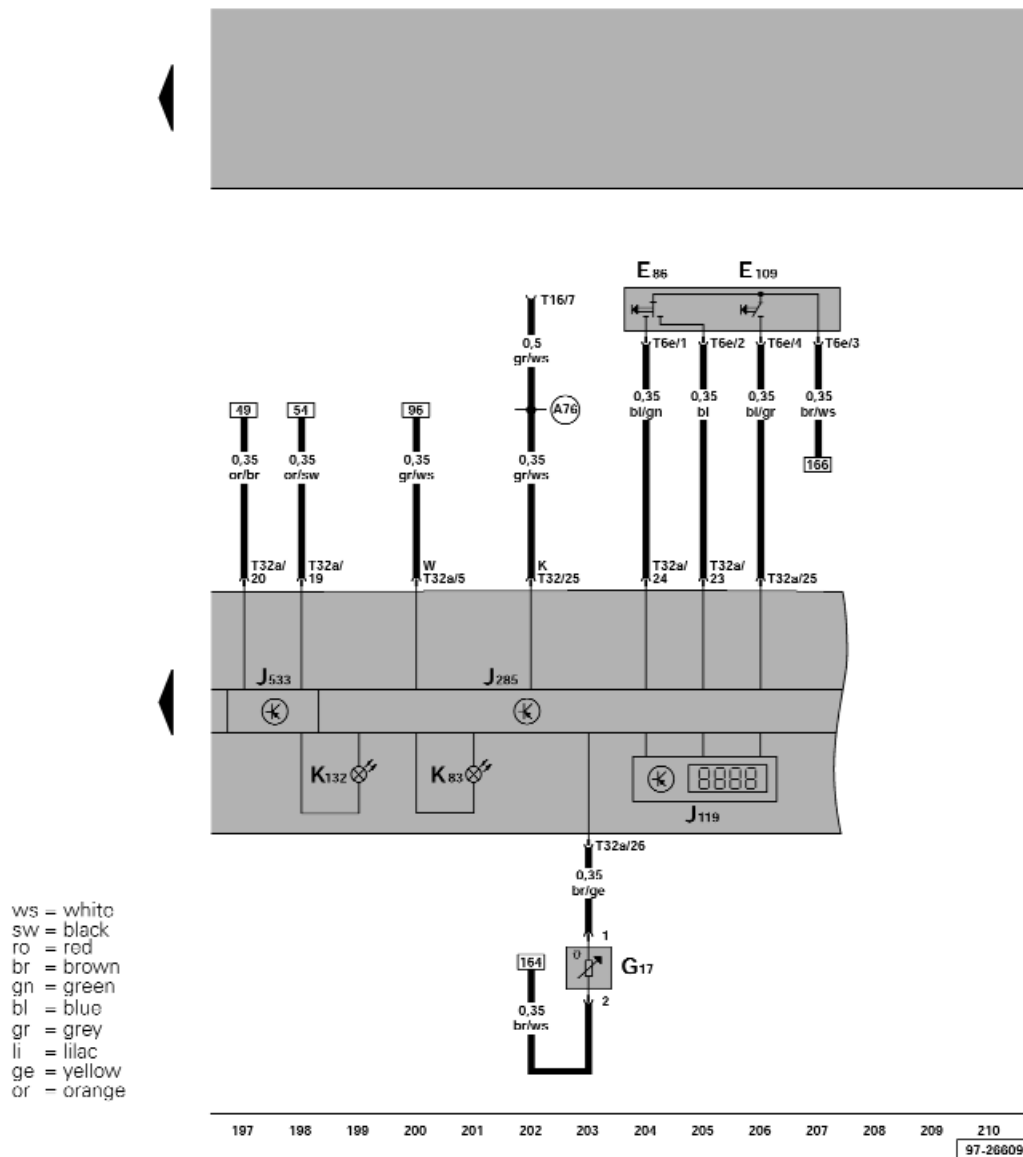
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = lilac
 ge = yellow

- 183 184 185 186 187 188 189 190 191 192 193 194 195 196
 97-26192
- G1 - Fuel gauge
 - G3 - Engine Coolant Temperature (ECT) Gauge
 - G5 - Tachometer
 - G21 - Speedometer
 - H3 - Warning Buzzer
 - J285 - Control module with indicator unit in instrument panel insert
 - K2 - Generator (GEN) Warning Light
 - K28 - Engine Coolant Level/Temperature (ECL/ECT) Warning Light
 - K105 - Low Fuel Level Warning Light
 - T32 - 32-Pin Connector, blue

- (A13) - Wire connection (door contact switch), in instrument panel wiring harness
- (A27) - Wire Connection (vehicle speed signal), in instrument panel wiring harness

Edition 06/00
 USA.5102.06.21

Instrument cluster, engine coolant temperature (ECT) gauge, fuel gauge, tachometer, speedometer, generator (GEN) warning light



E86 - Multi-Function Indicator Mode Select Switch
E109 - Multi-Function Indicator Memory Switch
G17 - Outside Air Temperature Sensor
J119 - Multi-function Indicator (MFI)
J285 - Control module with indicator unit in instrument panel insert
J533 - Data Bus On Board Diagnostic Interface
K83 - Malfunction Indicator Lamp (MIL)
K132 - Electronic Power Control (EPC) Warning Lamp
T6e - 6-Pin Connector
T16 - Data Link Connector (DLC), below instrument panel, center
T32 - 32-Pin Connector, blue
T32a - 32-Pin Connector, green

A76 - Connector (K diagnosis wire), in instrument panel wiring harness