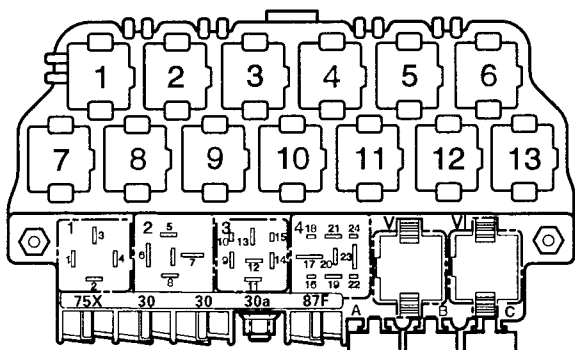


2,8L- Engine – Motronic Multiport Fuel Injection (MFI)/142 kW, code AHA,

from September 1997

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

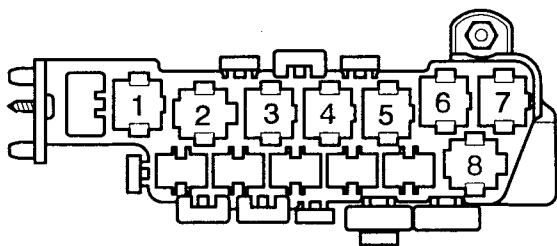


97-20676

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

Relay panel:

4 Fuel Pump (FP) Relay (208)



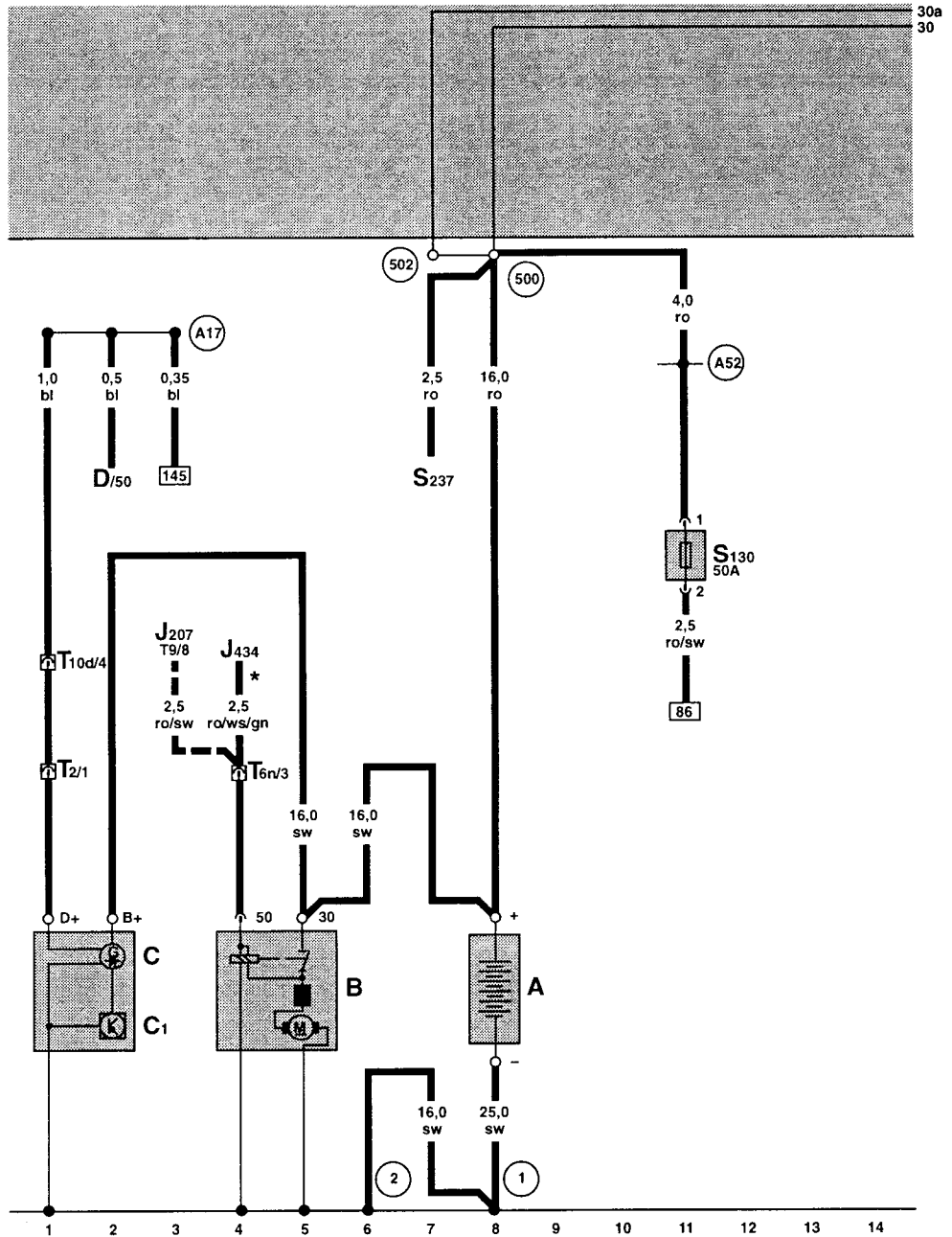
97-20515

Relay location on the eightfold auxiliary relay panel, behind relay panel:

Fuse colors

30 A – green
25 A – white
20 A – yellow
15 A – blue
10 A – red
7,5 A – brown
5 A – beige

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

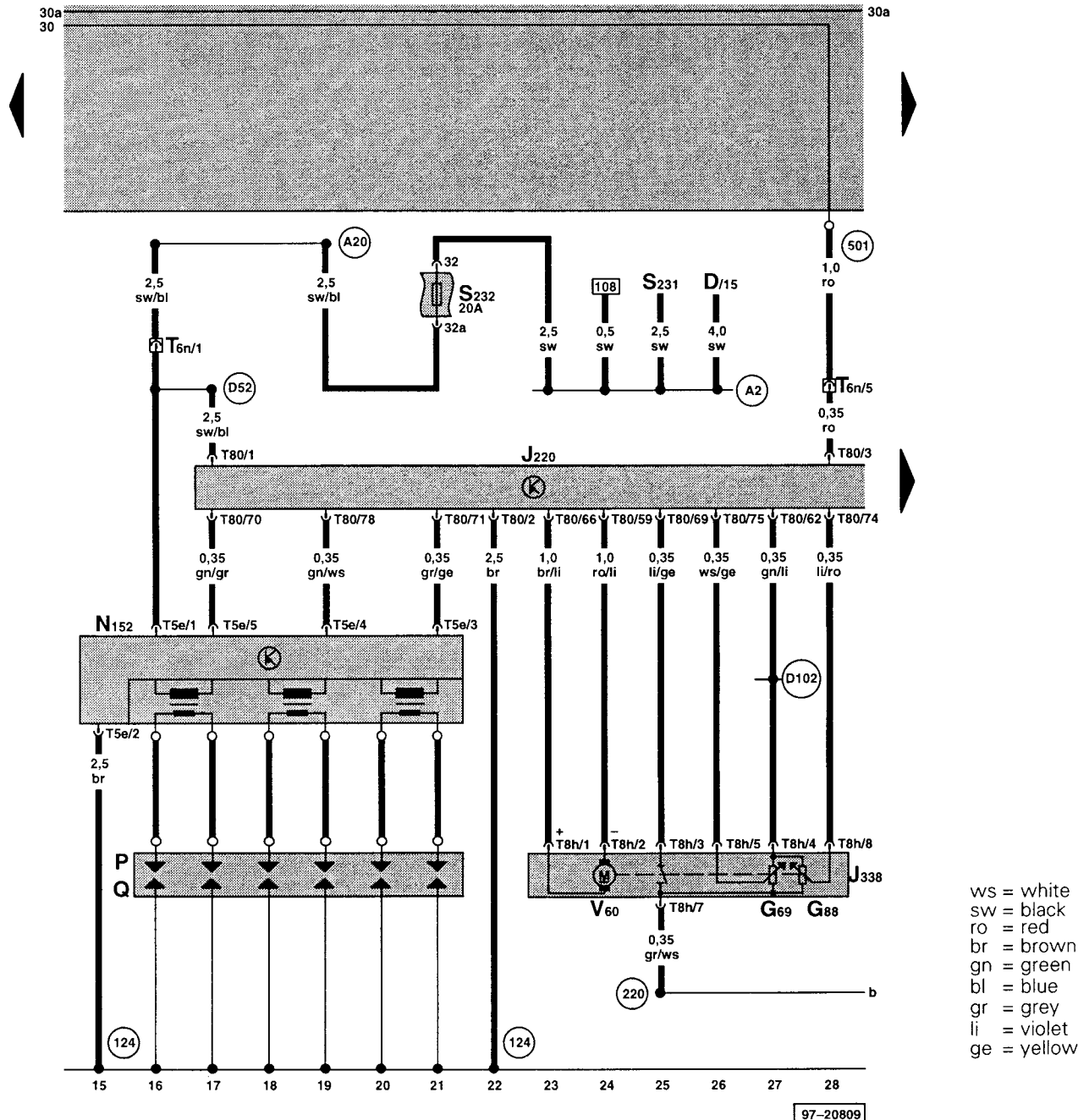


ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = violet
 ge = yellow

97-20808

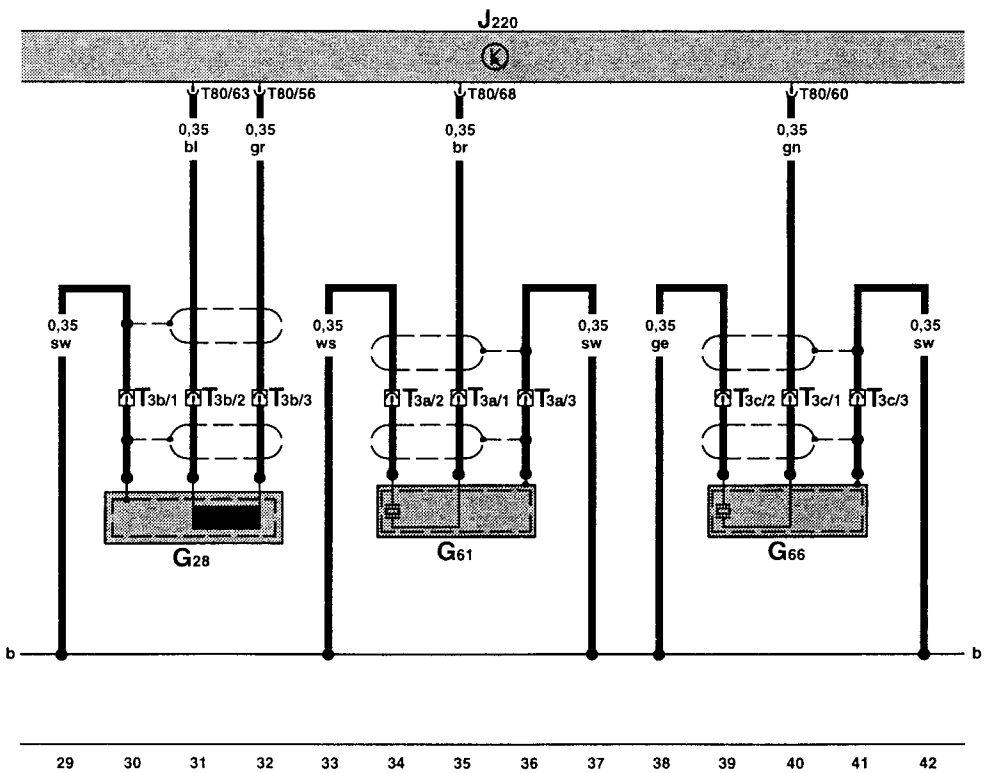
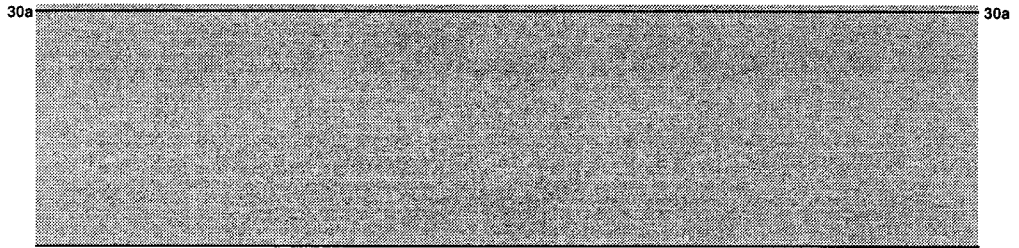
- A - Battery
- B - Starter
- C - Generator (GEN)
- C1 - Voltage Regulator (VR)
- D - Ignition/Starter Switch
- J207 - Starting Interlock Relay
- J434 - Starting Interlock Relay (clutch position)
- S130 - Fuse for secondary air pump, in fuse adaptor above relay panel
- S237 - Fuse 37 in fuse holder
- T2 - Double Connector, on engine right
- T6n - 6-Pin Connector, red, on protective housing for control module, in engine compartment, left
- T9 - 9-Pin Connector, on Starting Interlock Relay
- T10d - 10-Pin Connector, brown, on protective housing for control module, in engine compartment, left

- (1) - Ground strap, battery to body
- (2) - Ground strap, transmission to body
- (500) - Screw Connection -1- (30), on relay panel
- (502) - Screw Connection (30a), on relay panel
- (A17) - wire connection (61), in instrument panel wiring harness
- (A52) - plus connection (30), in instrument panel wiring harness
- * - manual transmission only
- - - automatic transmission only



- D - Ignition/Starter Switch
- G88 - Throttle Position (TP) Sensor
- J220 - Motronic Engine Control Module (ECM)
- J338 - Throttle Valve Control Module
- N152 - Ignition Coil
- P - Spark Plug Connectors
- Q - Spark Plugs
- S231 - Fuse 31 in fuse holder
- S232 - Fuse 32 in fuse holder
- T5e - 5-Pin Connector
- T6n - 6-Pin Connector, red, on protective housing for control module, in engine compartment, left
- T8h - 8-Pin Connector, on throttle valve control module
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)

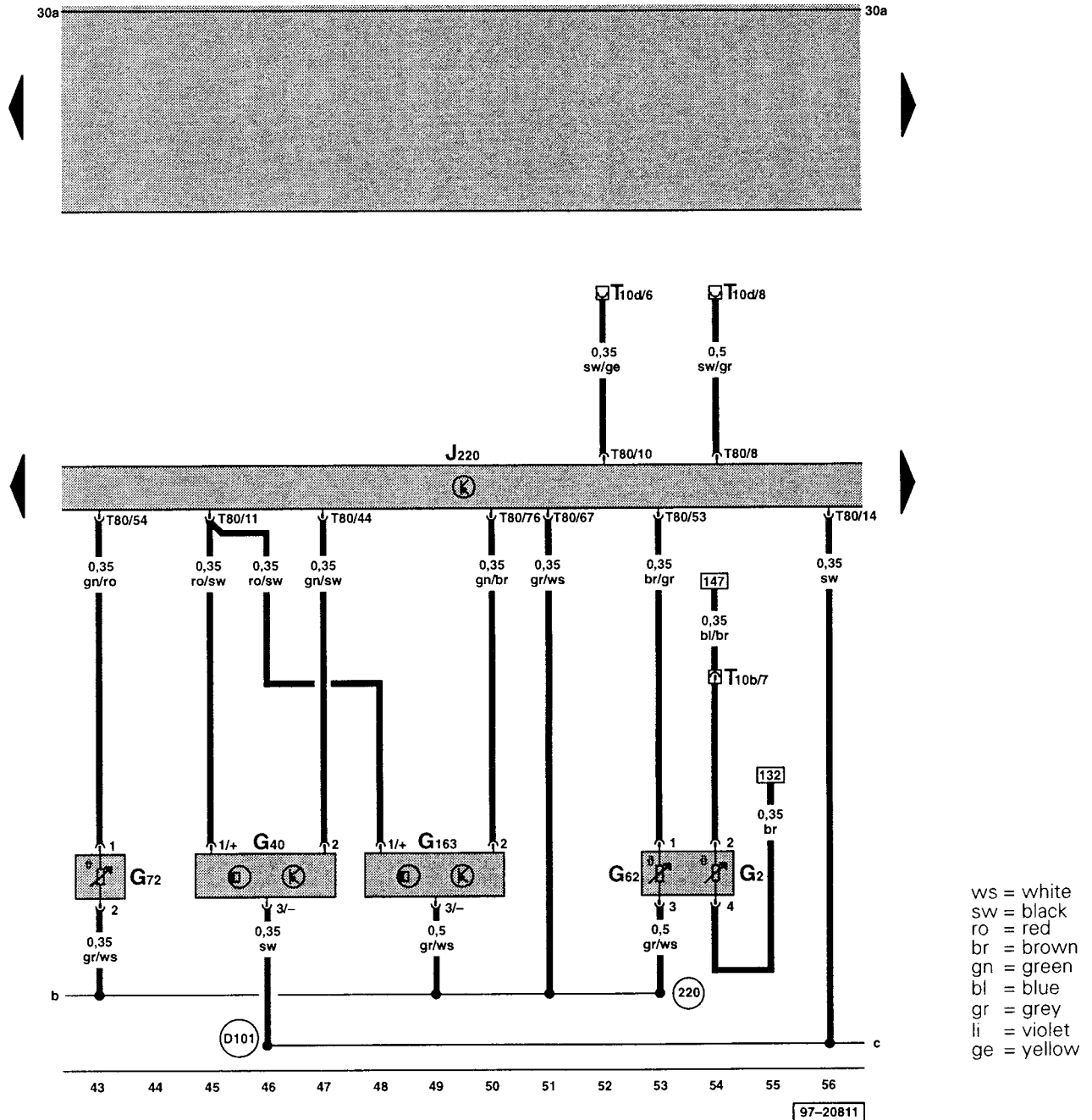
- V60 - Throttle Position (TP) Actuator
- (124) - ground connection, in engine compartment right wiring harness
- (220) - Ground connection (sensor ground), in engine compartment wiring harness
- (501) - Screw Connection -2- (30), on relay panel
- (A2) - plus connection (15), in instrument panel wiring harness
- (A20) - wire connection (15a), in instrument panel wiring harness
- (D52) - plus connection (15a), in engine compartment wiring harness
- (D102) - Wire connection -2-, in engine compartment wiring harness



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

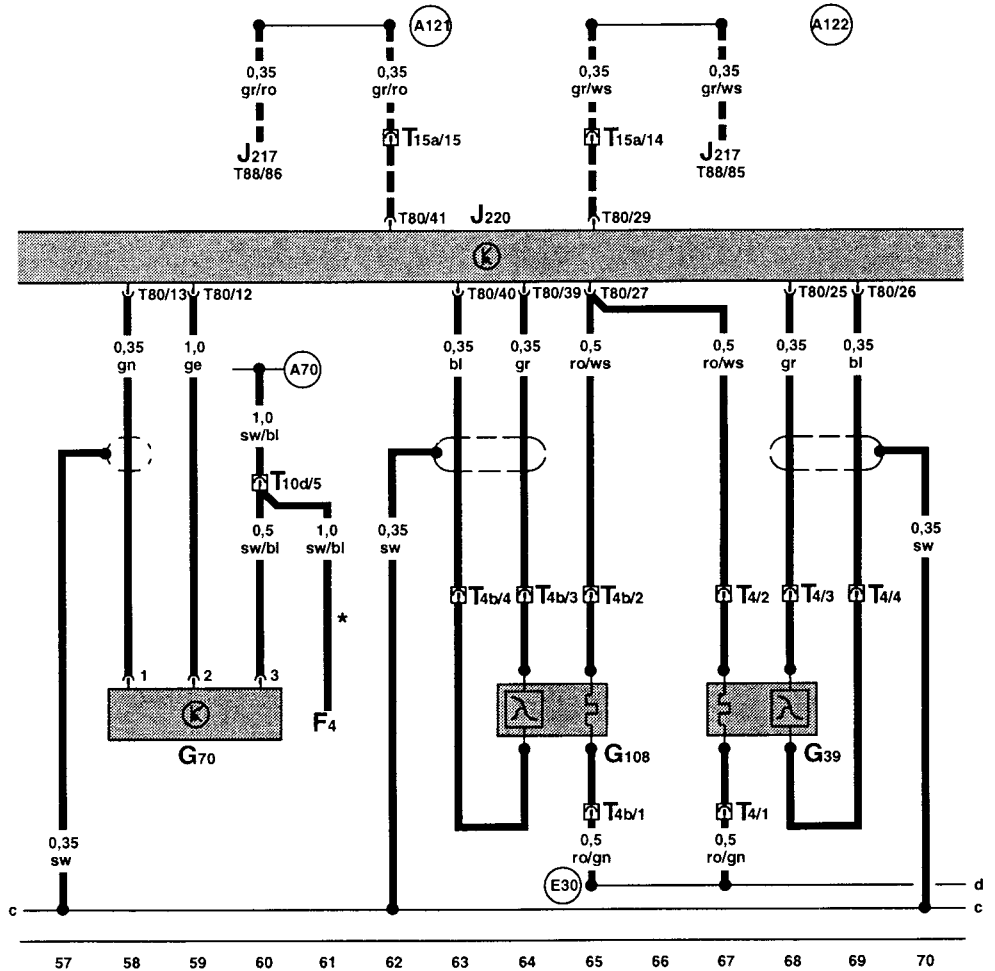
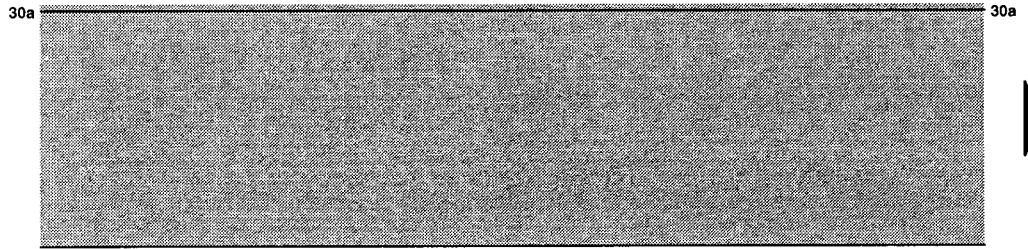
97-20810

- G28 - Engine Speed (RPM) Sensor
- G61 - Knock Sensor (KS) 1
- G66 - Knock Sensor (KS) 2
- J220 - Motronic Engine Control Module (ECM)
- T3a - 3-Pin Connector, blue, on firewall, left
- T3b - 3-Pin Connector, grey, on firewall, left
- T3c - 3-Pin Connector, blue, on firewall, left
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)



- G2 - Engine Coolant Temperature (ECT) Sensor
- G40 - Camshaft Position (CMP) Sensor
- G62 - Engine Coolant Temperature (ECT) Sensor
- G72 - Intake Air Temperature (IAT) Sensor
- G163 - Camshaft Position (CMP) Sensor 2
- J220 - Motronic Engine Control Module (ECM)
- T10b - 10-Pin Connector, black, on protective housing for control module, in engine compartment, left
- T10d - 10-Pin Connector, brown, on protective housing for control module, in engine compartment, left
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)

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

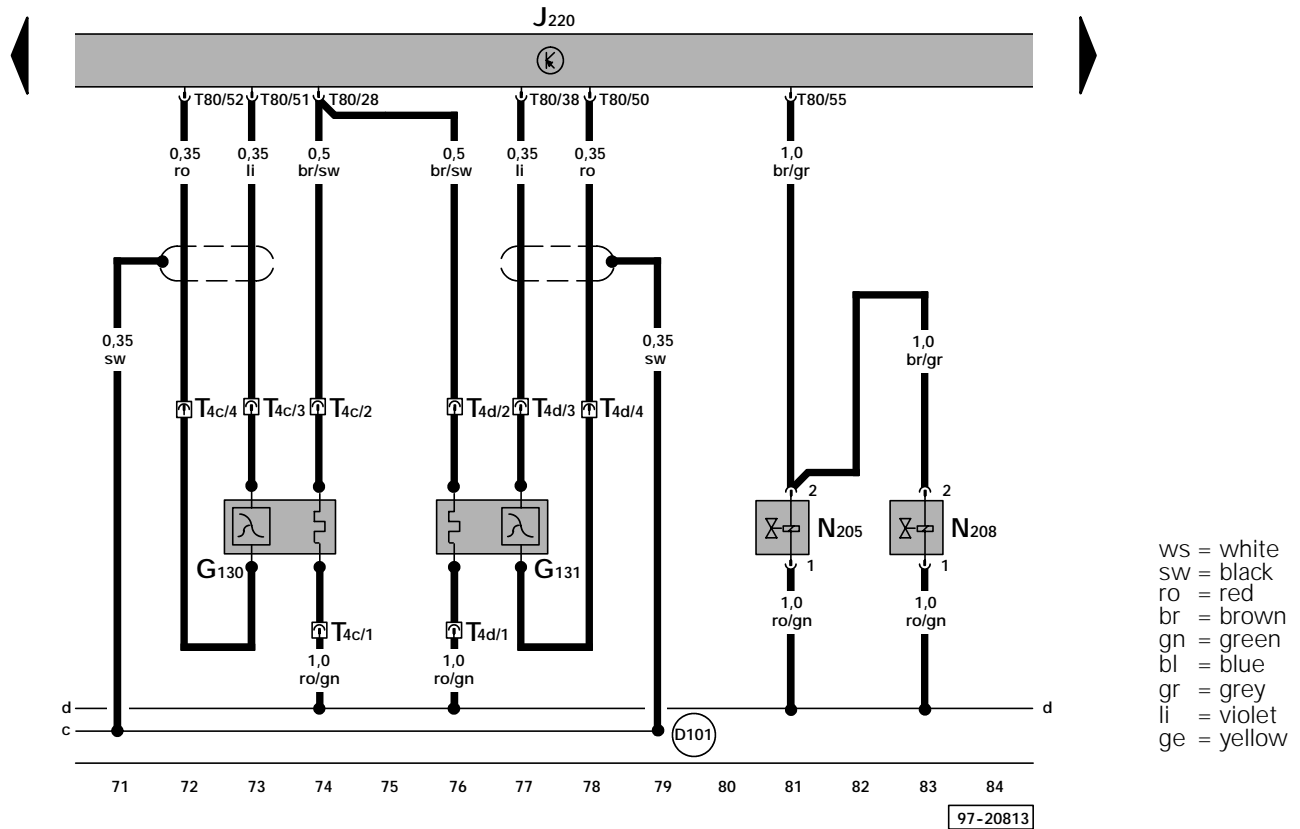


ws = white
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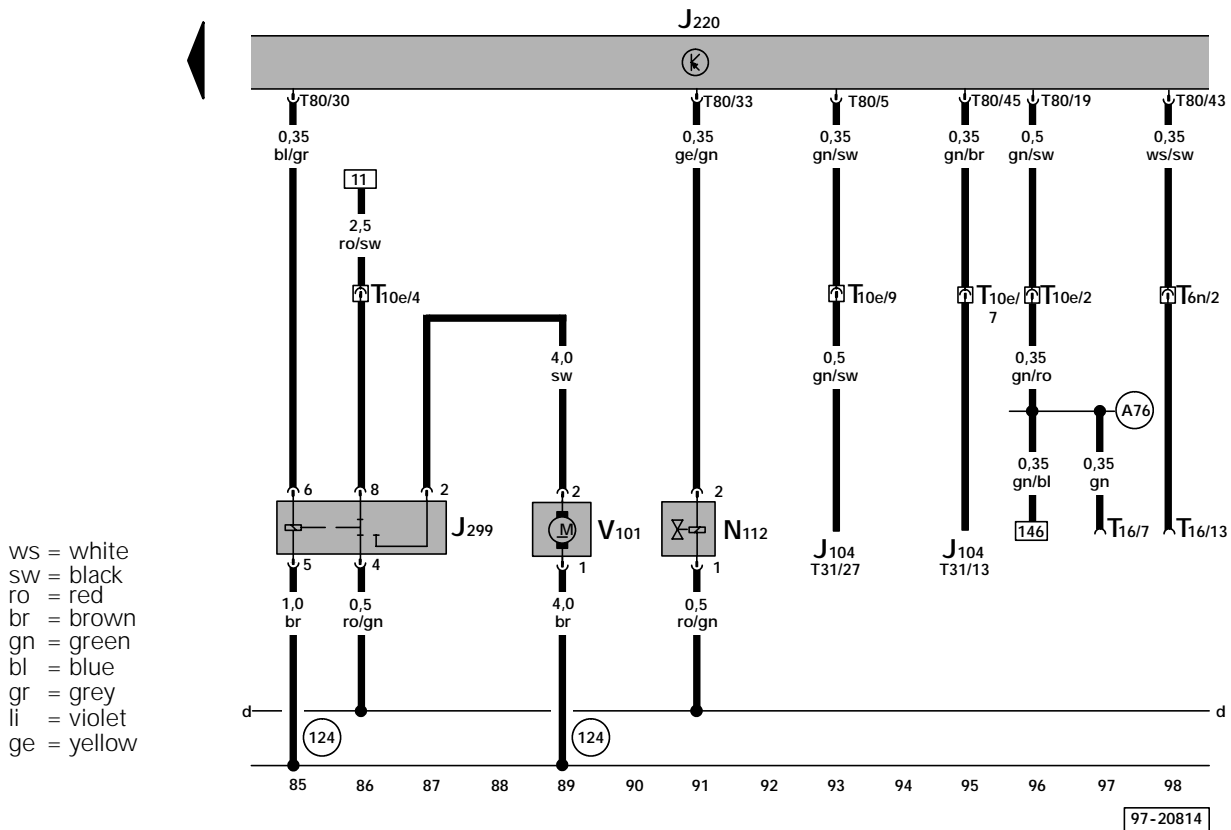
97-20812

- F4 - Back-Up Light Switch
- G39 - Heated Oxygen Sensor (HO2S)
- G70 - Mass Air Flow (MAF) Sensor
- G108 - Heated Oxygen Sensor (HO2S) 2
- J217 - Transmission Control Module (TCM)
- J220 - Motronic Engine Control Module (ECM)
- T4 - 4-Pin Connector, black
- T4b - 4-Pin Connector, black
- T10d - 10-Pin Connector, brown, on protective housing for control module, in engine compartment, left
- T15a - 15-Pin Connector, white, on protective housing for control module, in engine compartment, left
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)
- T88 - Connector, 88 point, on Transmission Control Module (TCM)

- (A70) - Connector (15a, fuse 231), in instrument panel wiring harness
- (A121) - Connector (High-Bus), in instrument panel wiring harness
- (A122) - Connector (Low-Bus), in instrument panel wiring harness
- (E30) - Connector (87a), in wiring harness engine
- - automatic transmission only
- * - manual transmission only

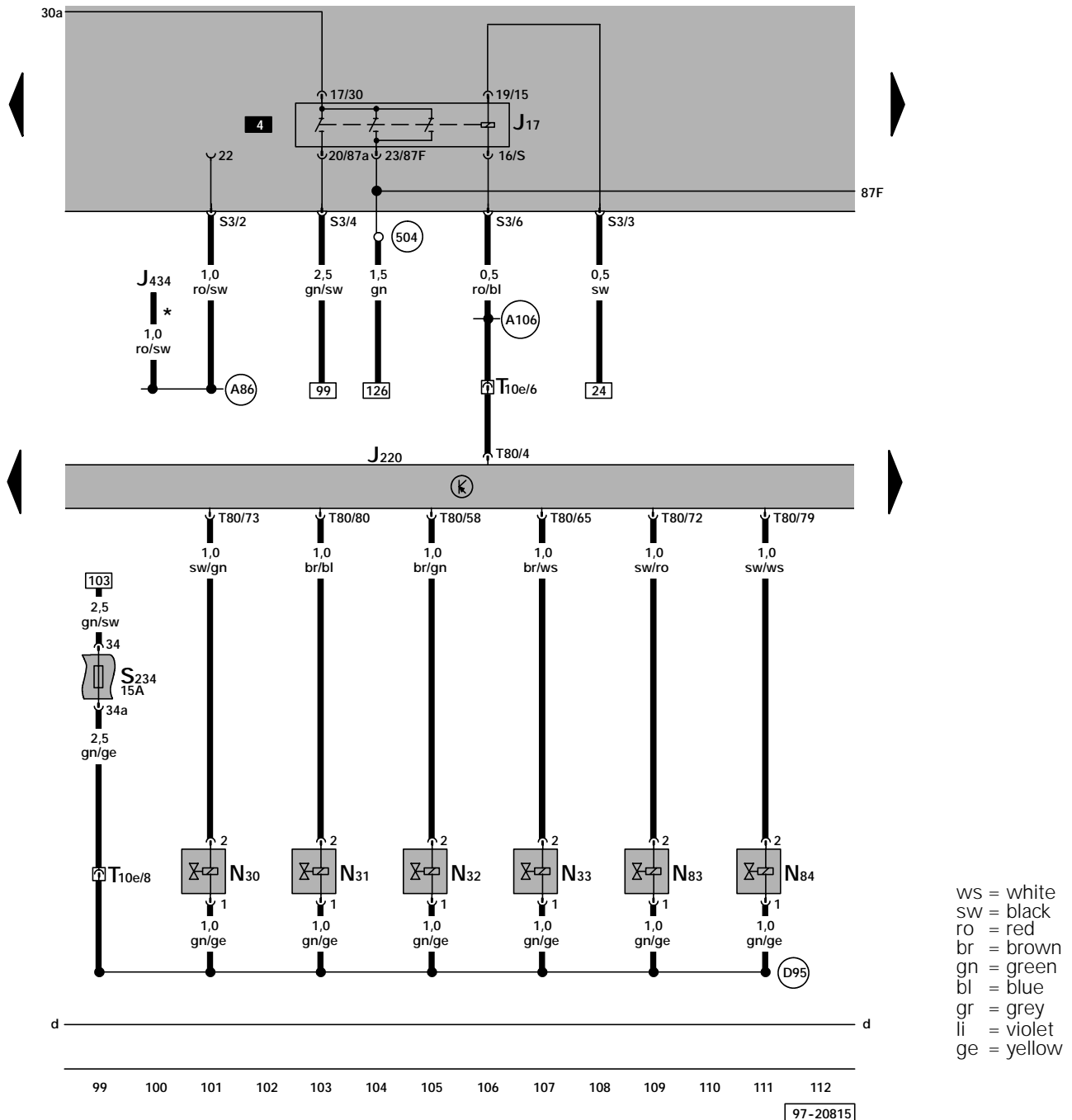


- G130 - Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC)
- G131 - Oxygen Sensor (O2S) 2 Behind Three Way Catalytic Converter (TWC)
- J220 - Motronic Engine Control Module (ECM)
- N205 - Valve -1- for camshaft adjustment
- N208 - Valve -2- for camshaft adjustment
- T4c - 4-Pin Connector, green
- T4d - 4-Pin Connector, brown
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)
- (D101) - Wire connection -1-, in engine compartment wiring harness



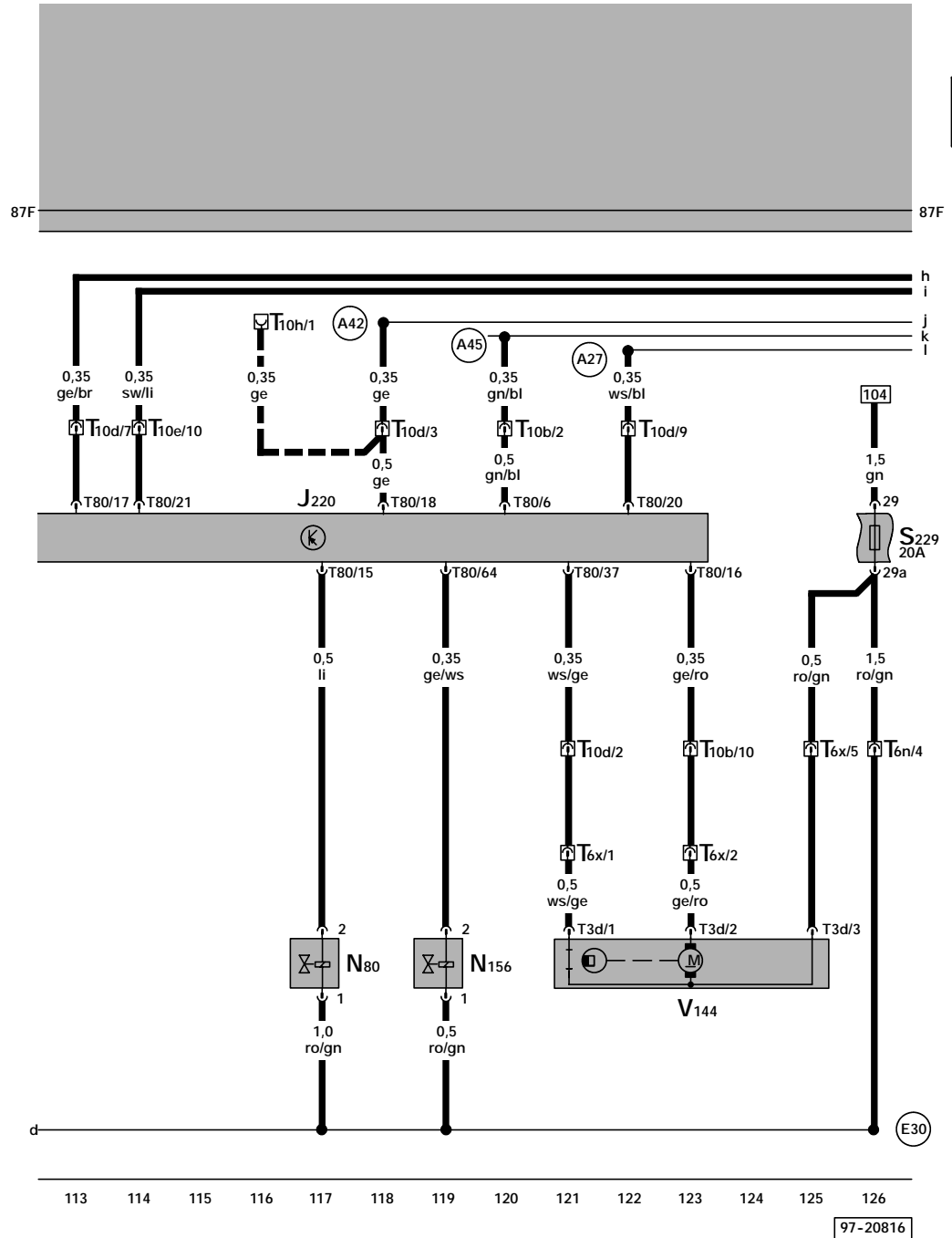
- J104 - ABS Control Module (w/EDL)
- J220 - Motronic Engine Control Module (ECM)
- J299 - Secondary Air Injection (AIR) Pump Relay, in protective housing for control module, production control number (203)
- N112 - Secondary Air Injection (AIR) Solenoid Valve
- T10e - 10-Pin Connector, yellow, on protective housing for control module, in engine compartment, left
- T16 - 16-Pin Connector, Data Link Connector (DLC), under instrument panel, left
- T31 - 31-Pin Connector, on ABS control module (with EDL)
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)
- V101 - Secondary Air Injection (AIR) Pump Motor

- (124) - ground connection, in engine compartment right wiring harness
- (A76) - Connector (K-diagnosis wire), in instrument panel wiring harness



- J17 - Fuel Pump (FP) Relay, production control number (208)
- J220 - Motronic Engine Control Module (ECM)
- J434 - Starting Interlock Relay (clutch position)
- N30 - Cylinder 1 Fuel Injector
- N31 - Cylinder 2 Fuel Injector
- N32 - Cylinder 3 Fuel Injector
- N33 - Cylinder 4 Fuel Injector
- N83 - Cylinder 5 Fuel Injector
- N84 - Cylinder 6 Fuel Injector
- S234 - Fuse 34 in fuse holder
- T10e - 10-Pin Connector, yellow, on protective housing for control module, in engine compartment, left
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)

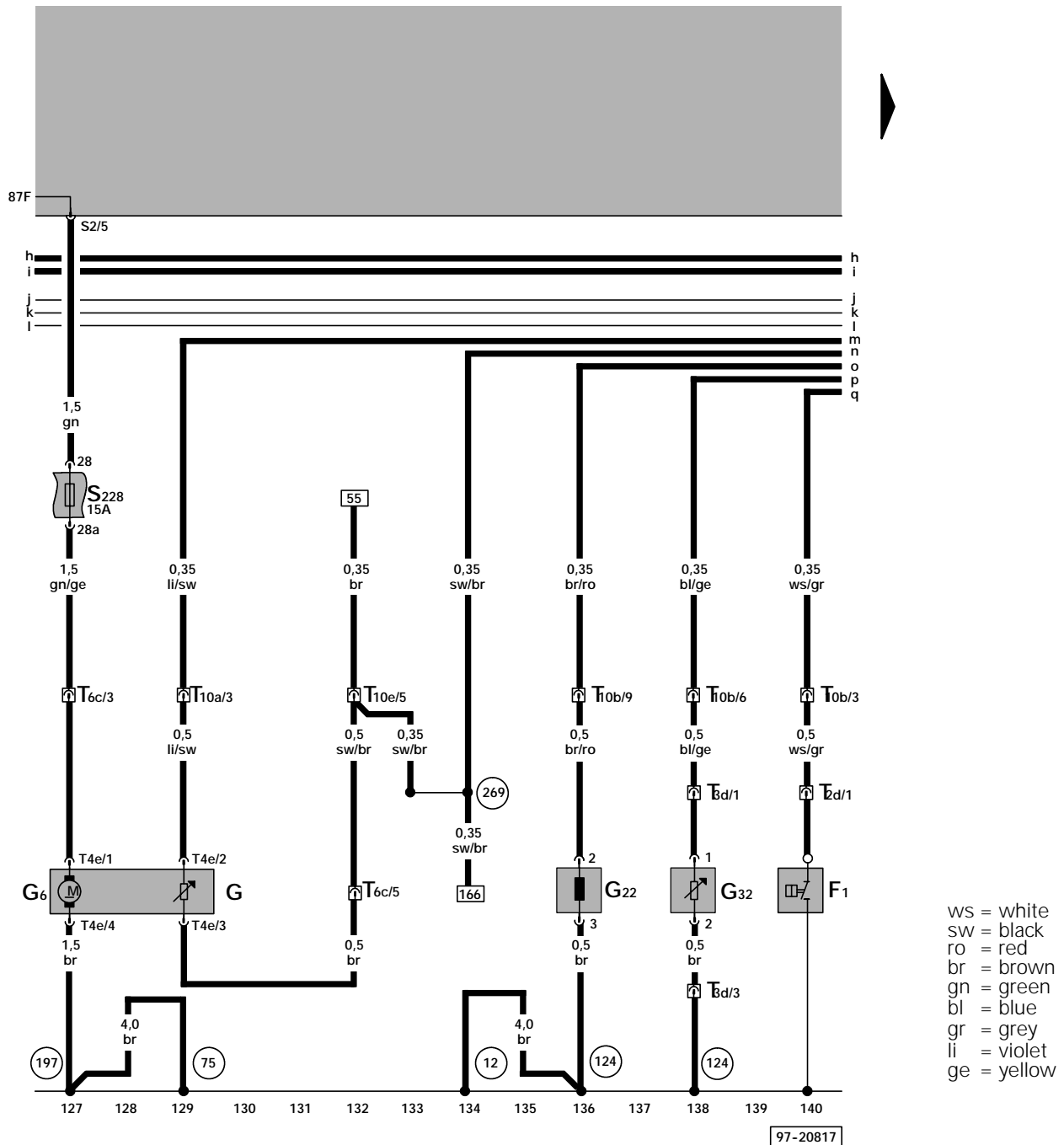
- (504) - Screw Connection (87F), on relay panel
- (A86) - Connection (50a) in instrument panel wiring harness
- (A106) - Connector -2- (86s), in instrument panel wiring harness
- (D95) - wire connection (injectors), in engine compartment wiring harness
- * - manual transmission only



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

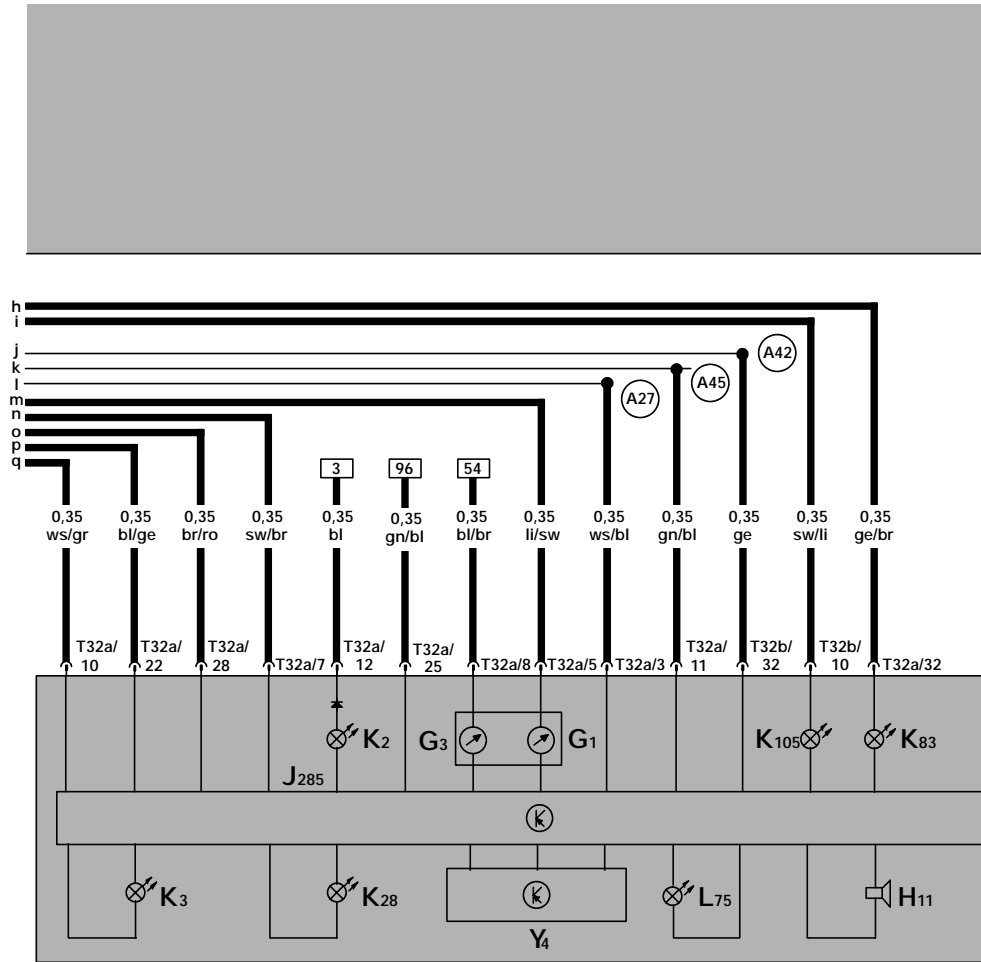
- J220 - Motronic Engine Control Module (ECM)
- N80 - Evaporative Emission (EVAP) Canister Purge Regulator Valve
- N156 - Intake Manifold Change-Over Valve
- S229 - Fuse 29 in fuse holder
- T3d - 3-Pin Connector
- T6n - 6-Pin Connector, red, on protective housing for control module, in engine compartment, left
- T6x - 6-Pin Connector, brown, connector station A-pillar, right
- T10b - 10-Pin Connector, black, on protective housing for control module, in engine compartment, left
- T10d - 10-Pin Connector, brown, on protective housing for control module, in engine compartment, left
- T10e - 10-Pin Connector, yellow, on protective housing for control module, in engine compartment, left

- T10h - 10-Pin Connector, blue, on protective housing for control module, in engine compartment, left
- T80 - Connector, 80 point, on Motronic Engine Control Module (ECM)
- V144 - Leak Detection Pump (LDP)
- (A27) - Wire Connection (vehicle speed signal), in instrument panel wiring harness
- (A42) - plus connection (fuel gauge), in instrument panel wiring harness
- (A45) - wire connection (RPM-signal), in instrument panel wiring harness
- (E30) Connector (87a), in wiring harness engine
- - - automatic transmission only



- F1 - Oil Pressure Switch
- G - Sender for fuel gauge
- G6 - Fuel Pump (FP)
- G22 - Speedometer Vehicle Speed Sensor (VSS)
- G32 - Engine Coolant Level (ECL) Sensor
- S228 - Fuse 28 in fuse holder
- T2d - Double Connector
- T3d - 3-Pin Connector, in engine compartment, left front
- T4e - 4-Pin Connector
- T6c - 6-Pin Connector, blue, connector station A-pillar, left
- T10a - 10-Pin Connector, brown, connector station A-pillar, left
- T10b - 10-Pin Connector, black, on protective housing for control module, in engine compartment, left

- T10e - 10-Pin Connector, yellow, on protective housing for control module, in engine compartment, left
- 12 - Ground connection, in engine compartment, left
- 75 - Ground connection, on right rear pillar
- 124 - ground connection, in engine compartment right wiring harness
- 197 - Ground connection -4-, in wiring harness rear
- 269 - Ground connection (sensor ground) -1-, in instrument panel wiring harness



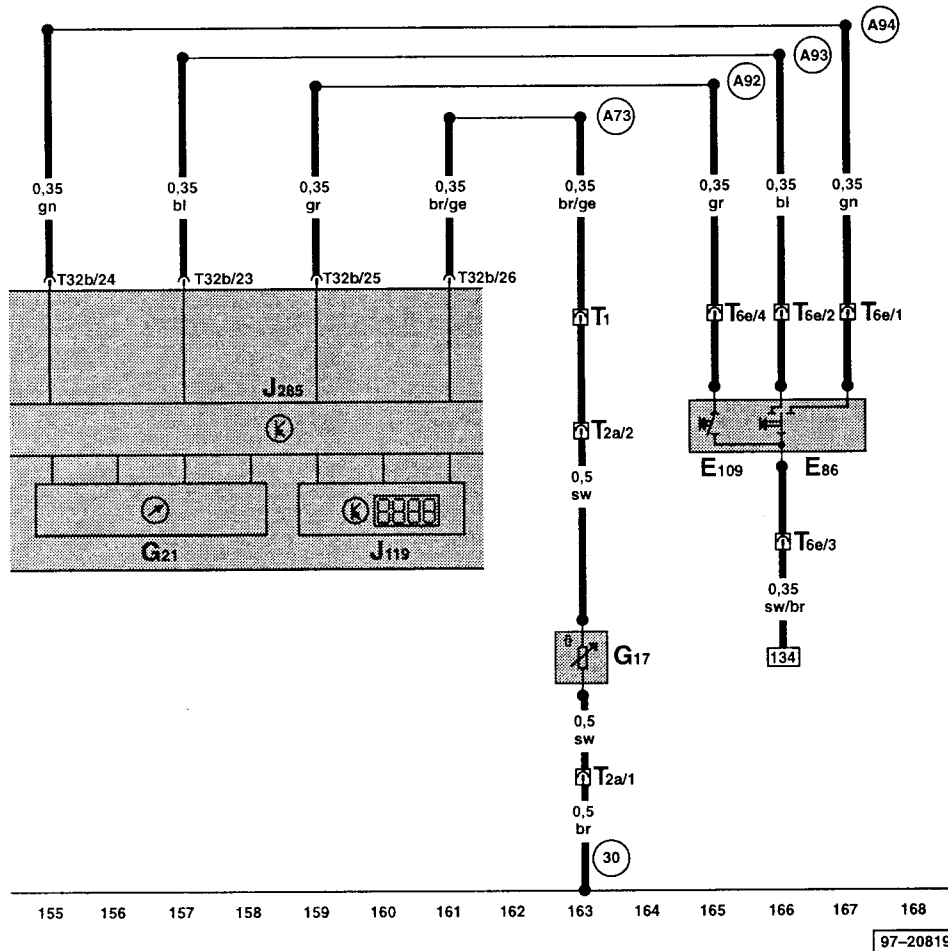
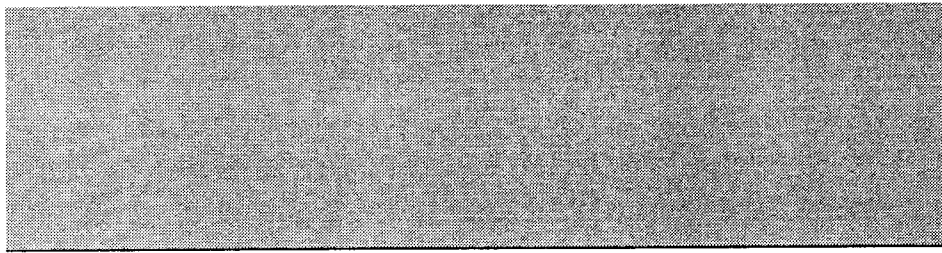
ws = white
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 li = violet
 ge = yellow

141 142 143 144 145 146 147 148 149 150 151 152 153 154

97-20818

- G1 - Fuel gauge
- G3 - Engine Coolant Temperature (ECT) Gauge
- H11 - Oil Pressure Warning Buzzer
- J285 - Control module with indicator unit in instrument panel insert
- K2 - Generator (GEN) Warning Light
- K3 - Oil Pressure Warning Light
- K28 - Engine Coolant Level/Temperature (ECL/ECT) Warning Light
- K83 - Malfunction Indicator Lamp (MIL)
- K105 - Low Fuel Level Warning Light
- L75 - Digital Display Light
- T32a - 32-Pin Connector, blue, on instrument cluster
- T32b - 32-Pin Connector, green, on instrument cluster
- Y4 - Odometer Display

- (A27) - Wire Connection (vehicle speed signal), in instrument panel wiring harness
- (A42) - plus connection (fuel gauge), in instrument panel wiring harness
- (A45) - wire connection (RPM-signal), in instrument panel wiring harness



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 ge = yellow

- E86 - Multi-Funktion Indicator Mode Select Switch
- E109 - Multi-Funktion Indicator Memory Switch
- G17 - Outside Air Temperature Sensor
(use correspond wiring diagram by vehicles with air conditioning)
- G21 - Speedometer
- J119 - Multi-function Indicator (MFI)
- J285 - Control module with indicator unit in instrument panel insert
- T1 - Single Connector, brown, connector station A-pillar, left
- T2a - Double Connector, in engine compartment left
- T6e - 6-Pin Connector, black, behind steering column switch cover
- T32b - 32-Pin Connector, green, on instrument cluster

- (30) - Ground connection, -1-, beside fuse/relay panel
- (A73) - Connector (outside temperature indicator), in instrument panel wiring harness
- (A92) - Connector (MFI-Reset), in instrument panel wiring harness
- (A93) - Connector -1- (MFI), in instrument panel wiring harness
- (A94) - Connector -2- (MFI), in instrument panel wiring harness