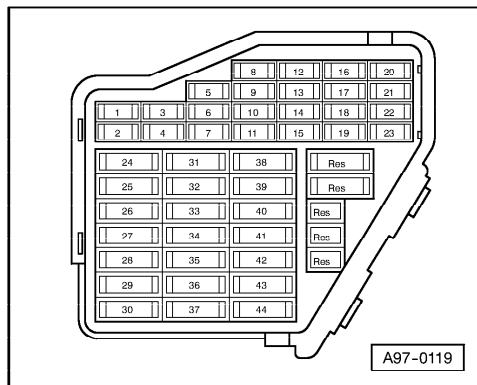


(2,7 l - Injection Engine, 6 Cylinder), Code APB, BEL

2003 m.y.

**Fuse Panel**

Fuse Colors:

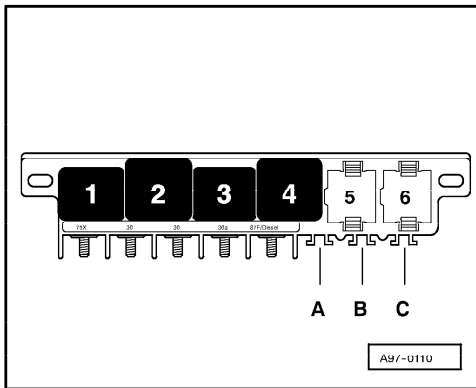
- 30 A - Green
- 25 A - White
- 20 A - Yellow
- 15 A - Blue
- 10 A - Red
- 7,5 A - Brown
- 5 A - Beige
- 1 A - Black

Starting with fuse position 23, fuses in the fuse holder are identified with 223 in the wiring diagram.

Micro Central Electric Panel

Relay Location:

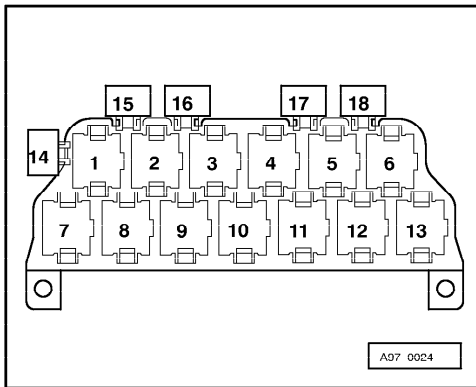
4 - Fuel Pump (FP) Relay, J17



13 - Fold Relay Panel

Relay Location:

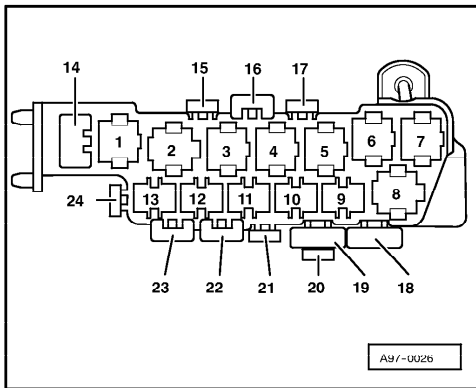
4 - Starting Interlock Relay, J207



8 - Fold Relay Panel

Fuse Location:

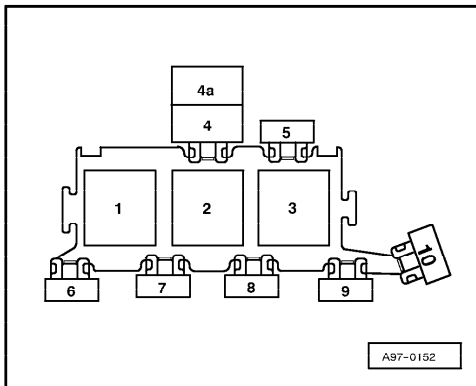
19 - Coolant Fan Fuse, S42



3 - Fold Relay Panel in E-Box plenum chamber

Relay Location:

- 2 - Secondary Air Injection (AIR) Pump Relay, J299
- 3 - Motronic Engine Control Module (ECM) Power Supply Relay, J271
- 5 - Engine Electronics Fuse, S282
- 7 - Fuse for Secondary Air Pump, S130

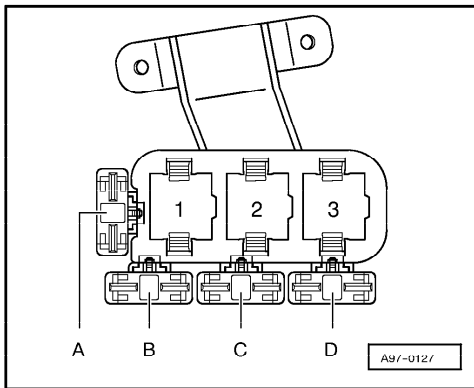


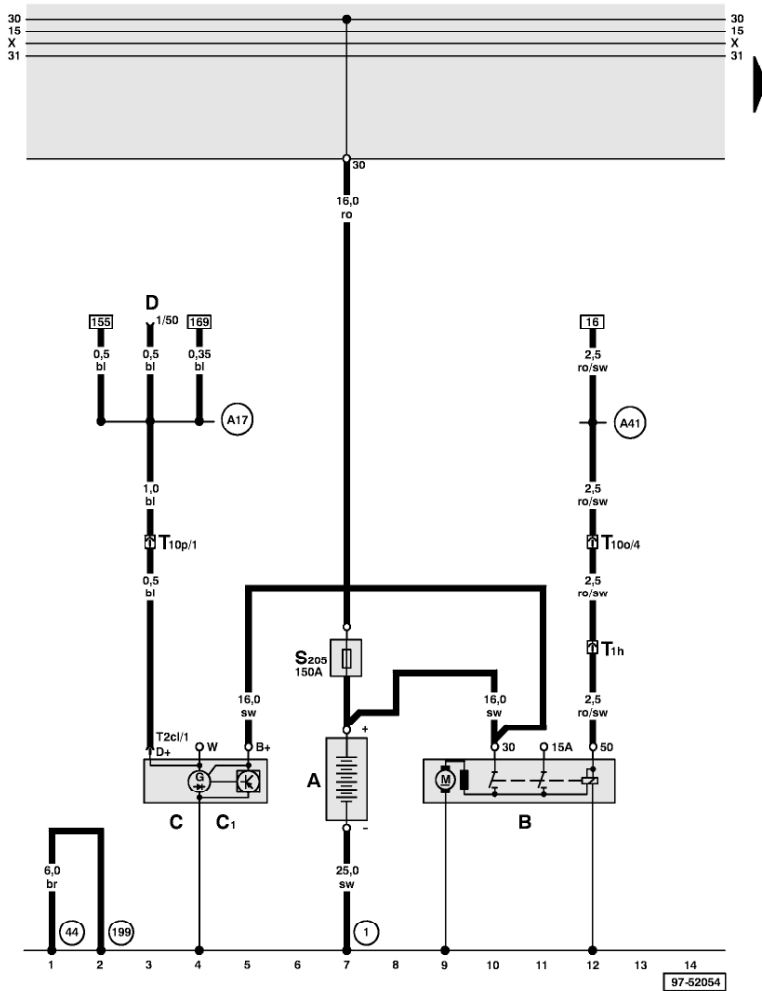
Relay Panel behind Instrument Panel left, on central girder

Relay Location:

1 - Brake Booster Relay, J569

C - Fuse for Hydraulic Pump Relay, S279





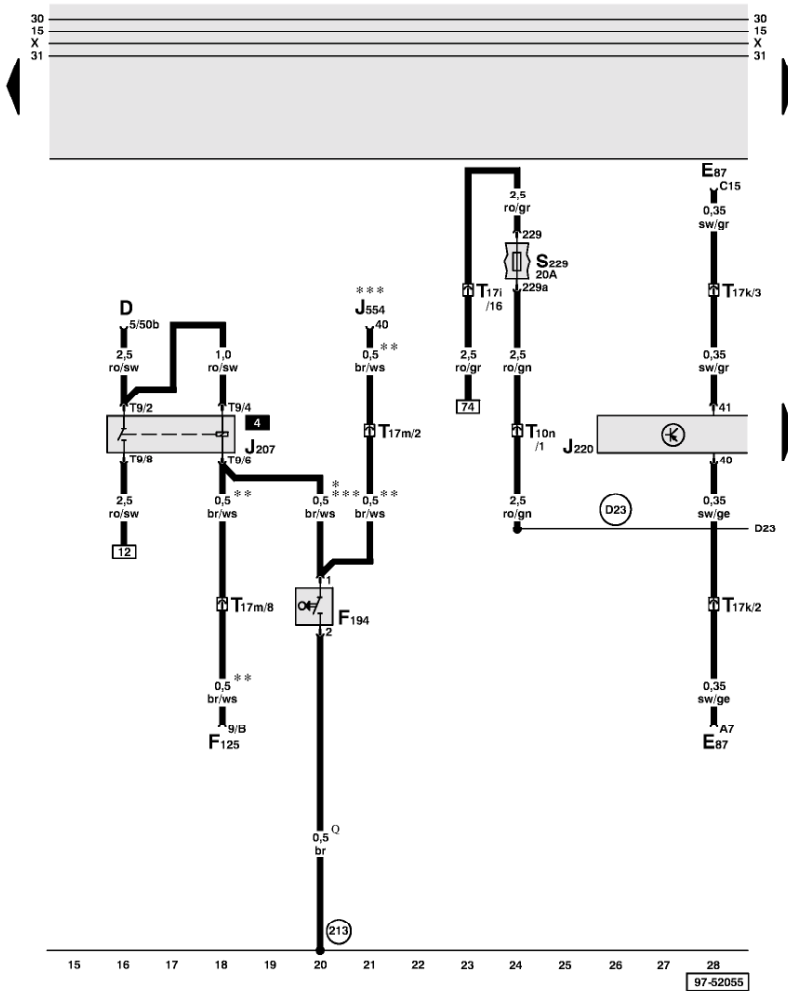
Battery, Starter, Generator, Ignition/Starter Switch

- A - Battery
- B - Starter
- C - Generator (GEN)
- C1 - Voltage Regulator (VR)
- D - Ignition/Starter Switch
- S205 - Fuse 2 (30)
- T1h - Single connector, black, in engine compartment, right
- T2cl - Connector 2 pin, black, in engine compartment, right
- T10o - Connector 10 pin, brown, connector station electronic box plenum chamber
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber

- 1 - Ground strap, battery to body
- 44 - Ground Connection, on left A-pillar, lower part
- 199 - Ground Connection 3, in instrument panel wiring harness
- A17 - Connection (61), in instrument panel wiring harness
- A41 - Plus Connection (50), in instrument panel wiring harness

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

Motronic Engine Control Module. Starting Interlock Relay, Clutch Pedal Starter Interlock Switch



- D - Ignition/Starter Switch
- E87 - A/C Control Head
- F125 - Multi-Function Transmission Range (TR) Switch
- F194 - Clutch Pedal Starter Interlock Switch
- J207 - Starting Interlock Relay
- J220 - Motronic Engine Control Module (ECM)
- J554 - 4-Low Range Control Module
- S229 - Fuse in fuse holder
- T9 - Connector 9 pin, brown, on starting interlock relay
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber
- T17m - Connector 17 pin, blue, connector station A pillar, right

- (213) - Ground Connection, in instrument panel wiring harness
- (D23) - Connection (over fuse 229), in wiring harness front, right

- * - Vehicles with manual transmission
- ** - Vehicles with automatic transmission
- *** - allroad with manual transmission 01E

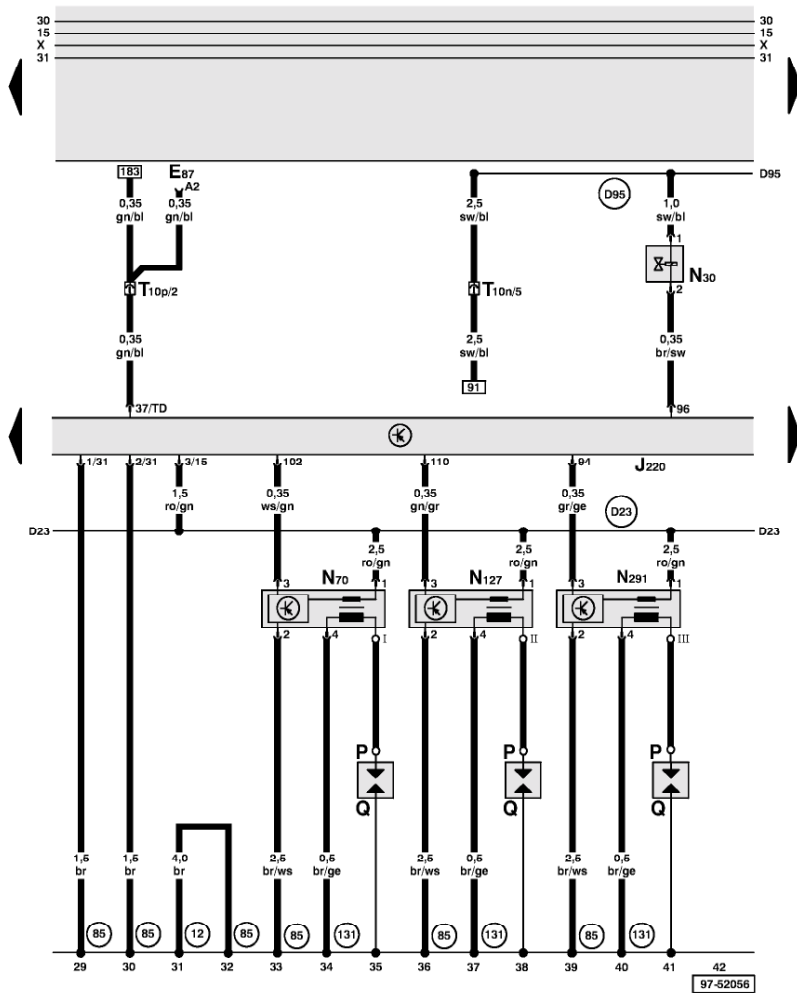
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = violet
 ge = yellow
 or = orange

Motronic Engine Control Module. Ignition Coils 1 - 3 with Power Output Stage

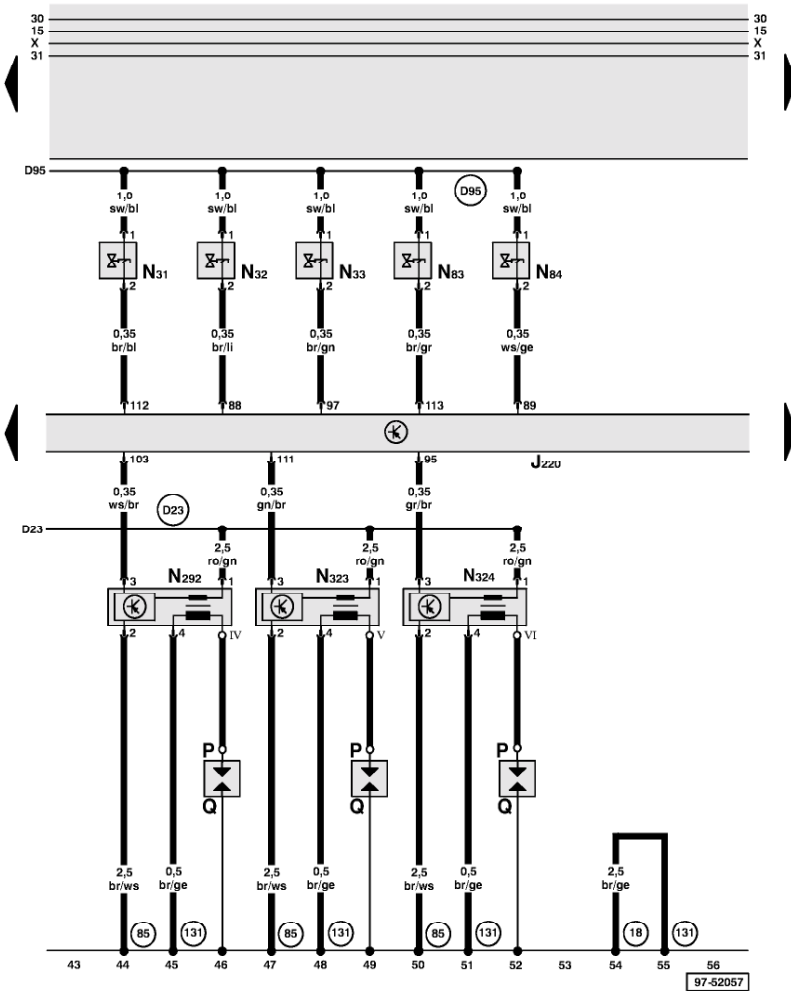
- E87 - A/C Control Head
- J220 - Motronic Engine Control Module (ECM)
- N30 - Cylinder 1 Fuel Injector
- N70 - Ignition Coil 1 with Power Output Stage
- N127 - Ignition Coil 2 with Power Output Stage
- N291 - Ignition Coil 3 with Power Output Stage
- P - Spark Plug Connectors
- Q - Spark Plugs
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber

- (12) - Ground Connection, in engine compartment, left
- (85) - Ground Connection 1, in engine compartment wiring harness
- (131) - Ground Connection 2, in engine compartment wiring harness
- (D23) - Connection (over fuse 229), in wiring harness front, right
- (D95) - Connection (injectors), in engine compartment wiring harness

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



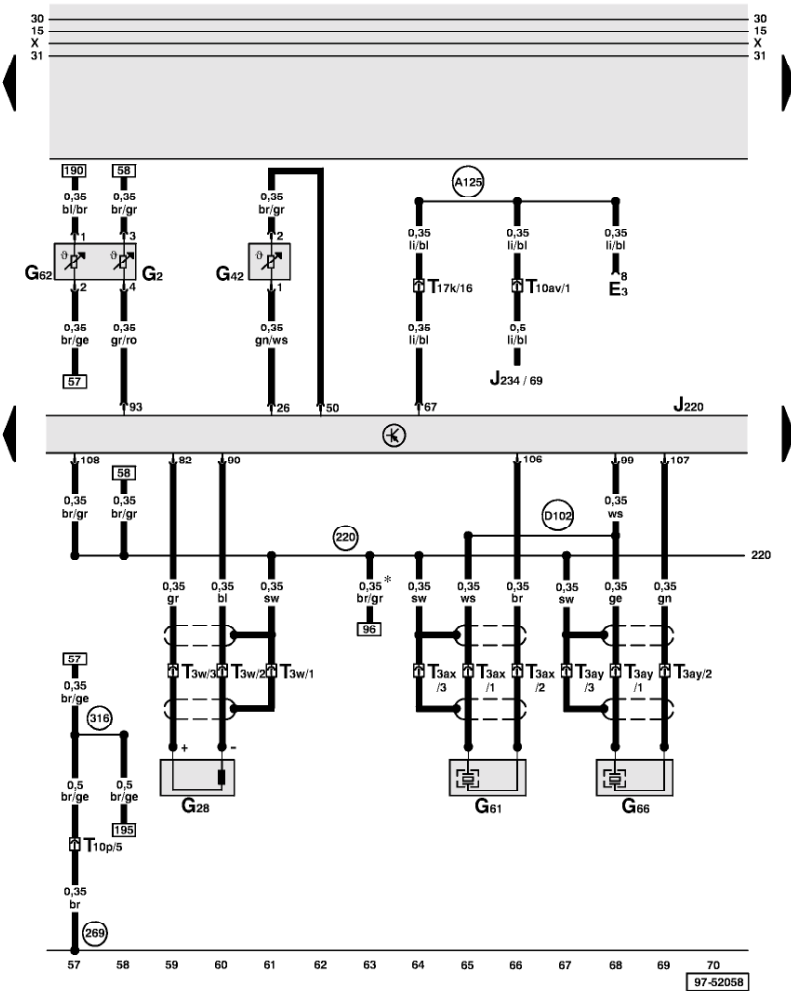
Motronic Engine Control Module. Ignition Coils 4 - 6 with Power Output Stage



- J220 - Motronic Engine Control Module (ECM)
 - 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
 - N292 - Ignition Coil 4 with Power Output Stage
 - N323 - Ignition Coil 5 with Power Output Stage
 - N324 - Ignition Coil 6 with Power Output Stage
 - P - Spark Plug Connectors
 - Q - Spark Plugs
- (18) - Ground Connection, on engine block
 - (85) - Ground Connection 1, in engine compartment wiring harness
 - (131) - Ground Connection 2, in engine compartment wiring harness
 - (D23) - Connection (over fuse 229), in wiring harness front, right
 - (D95) - Connection (injectors), in engine compartment wiring harness

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

Motronic Engine Control Module, Knock Sensors, Engine Coolant Temperature Sensor



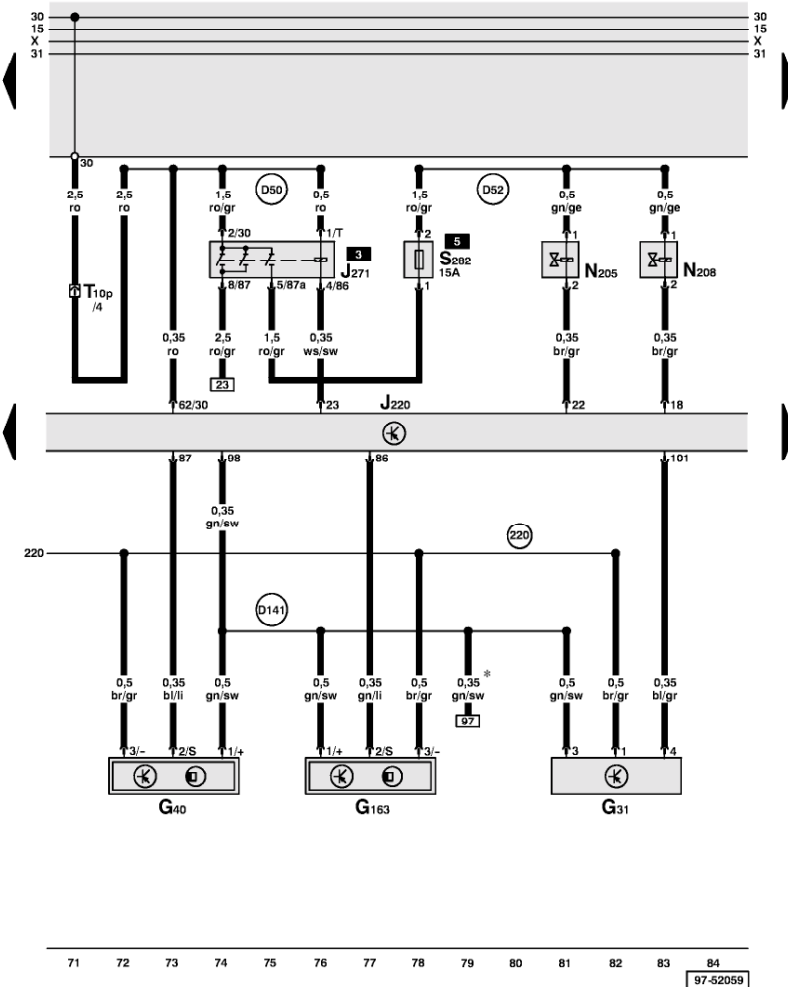
- E3 - Emergency Flasher Switch
- G2 - Engine Coolant Temperature (ECT) Sensor
- G28 - Engine Speed (RPM) Sensor
- G42 - Intake Air Temperature (IAT) Sensor
- G61 - Knock Sensor (KS) 1
- G62 - Engine Coolant Temperature (ECT) Sensor
- G66 - Knock Sensor (KS) 2
- J220 - Motronic Engine Control Module (ECM)
- J234 - Airbag Control Module
- T3w - Connector 3 pin, grey, on engine speed sensor
- T3ax - Connector 3 pin, brown, on knock sensor 1
- T3ay - Connector 3 pin, brown, on knock sensor 2
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber
- T10av - Connector 10 pin, yellow, connector station A pillar, right
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber

- (220) - Ground Connection (sensor ground), in engine compartment wiring harness
- (269) - Ground connector (sensor ground) 1, in instrument panel wiring harness
- (316) - Sensor Ground Connection 2 (in engine wiring harness)
- (A125) - Connection (crash signal) in instrument panel wiring harness
- (D102) - Connection 2. in engine compartment wiring harness

* - Vehicles with automatic transmission

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

Motronic Engine Control Module, Camshaft Position Sensors, Valves for Camshaft Adjustment



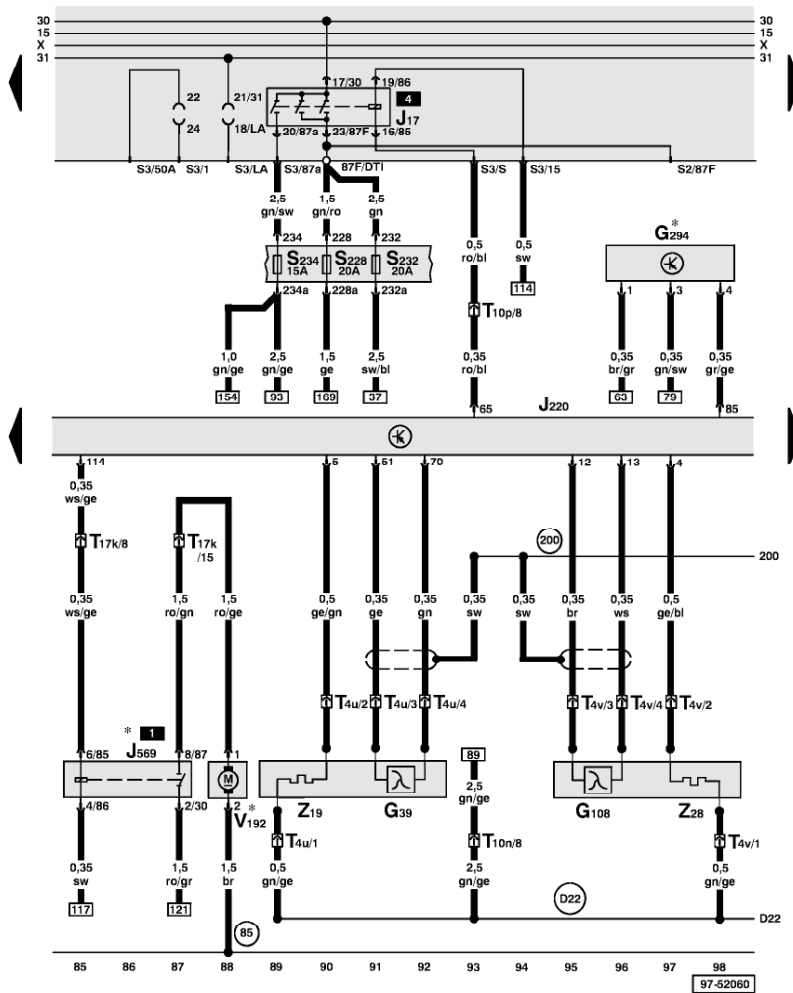
- G31 - Charge Air Pressure Sensor
- G40 - Camshaft Position (CMP) Sensor
- G163 - Camshaft Position (CMP) Sensor 2
- J220 - Motronic Engine Control Module (ECM)
- J271 - Motronic Engine Control Module (ECM) Power Supply Relay
- N205 - Valve 1 for camshaft adjustment
- N208 - Valve 2 for camshaft adjustment
- S282 - Engine Electronics Fuse
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber

- (220) - Ground Connection (sensor ground), in engine compartment wiring harness
- (D50) - Plus Connection (30), in engine compartment wiring harness
- (D52) - Plus Connection (15a), in engine compartment wiring harness
- (D141) - Connection (5V), in wiring harness, engine pre-wiring

* - only Vehicles with automatic transmission

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

Motronic Engine Control Module, Fuel Pump Relay, Oxygen Sensors Heater, Brake System Vacuum Pump



- G39 - Heated Oxygen Sensor (HO2S)
- G108 - Heated Oxygen Sensor (HO2S) 2
- G294 - Brake Booster Pressure Sensor
- J17 - Fuel Pump (FP) Relay
- J220 - Motronic Engine Control Module (ECM)
- J569 - Brake Booster relay
- S228 - Fuse in fuse holder
- S232 - Fuse in fuse holder
- S234 - Fuse in fuse holder
- T4u - Connector 4 pin, black, heated oxygen sensor
- T4v - Connector 4 pin, black, heated oxygen sensor 2
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T10p - Connector 10 pin, black, connector station electronic box plenum chamber
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber
- V192 - Brake System Vacuum Pump
- Z19 - Oxygen Sensor (O2S) Heater
- Z28 - Oxygen Sensor (O2S) Heater 2

- (85) - Ground Connection 1, in engine compartment wiring harness
- (200) - Ground Connection (shielding), in engine compartment wiring harness
- (D22) - Connection (over fuse 234), in wiring harness front, right

* - only Vehicles with automatic transmission

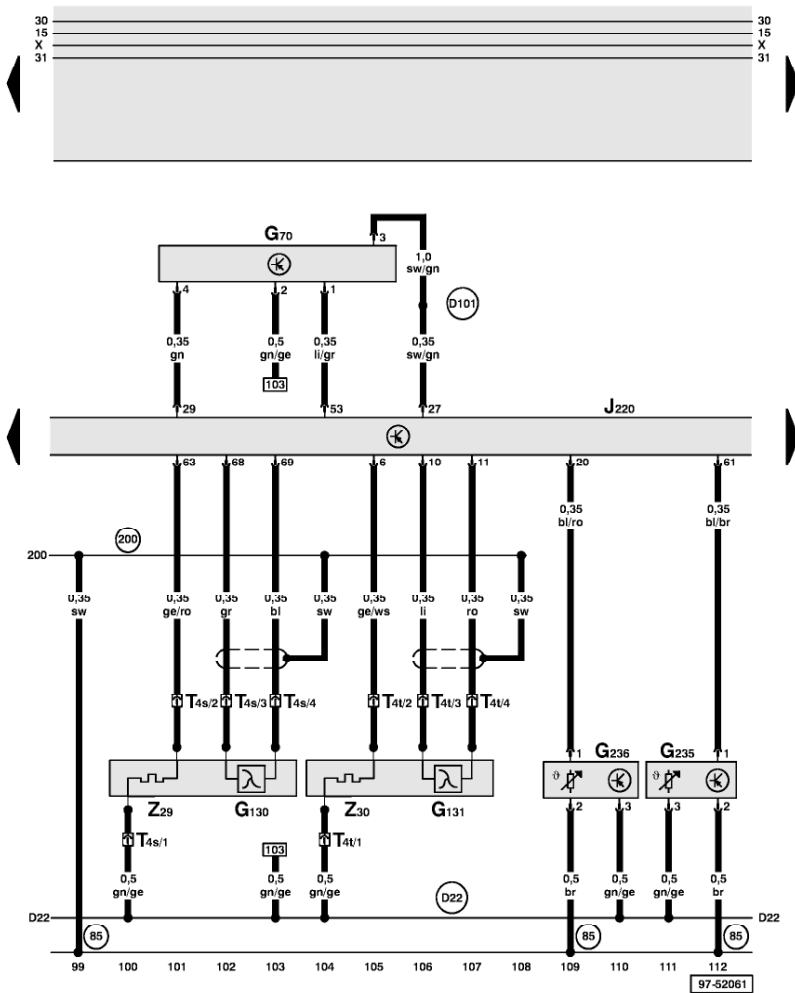
ws = white
 sw = black
 ro = red
 br = brown
 gn = green
 bl = blue
 gr = grey
 li = violet
 ge = yellow
 or = orange

Motronic Engine Control Module, Mass Air Flow Sensor, Heated Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC)

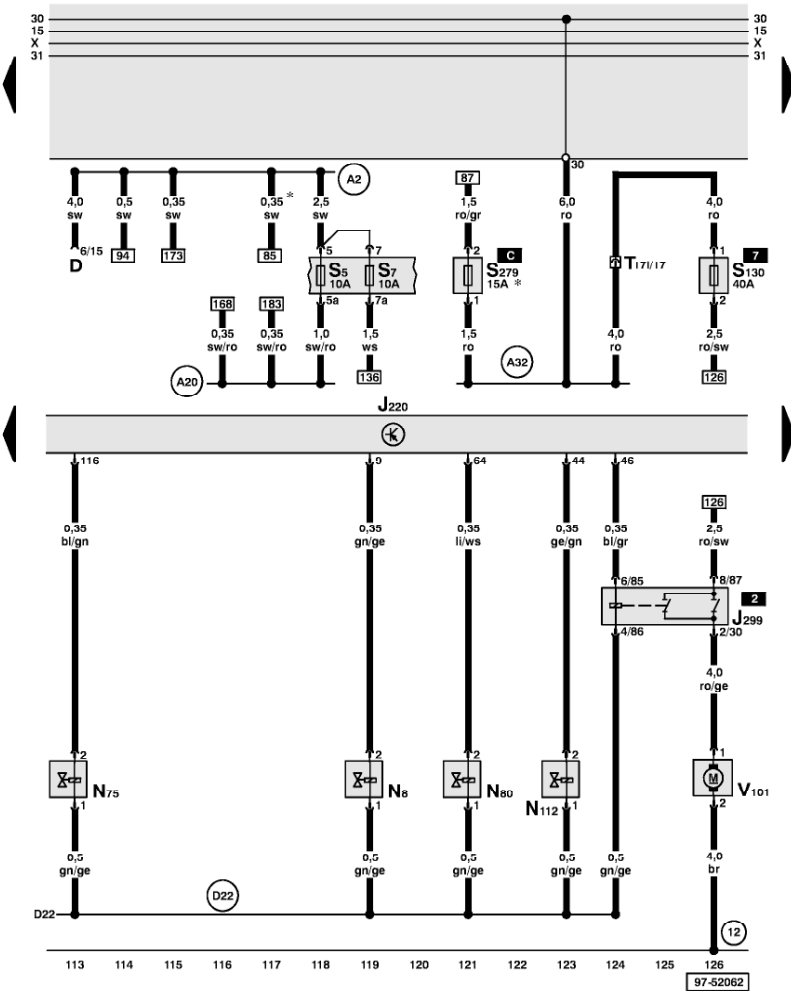
- G70 - Mass Air Flow (MAF) Sensor
- G130 - Heated Oxygen Sensor (O2S) Behind Three Way Catalytic Converter (TWC)
- G131 - Heated Oxygen Sensor (O2S) 2 Behind Three Way Catalytic Converter (TWC)
- G235 - Sensor 1 for exhaust temperature
- G236 - Sensor 2 for exhaust temperature
- J220 - Motronic Engine Control Module (ECM)
- T4s - Connector 4 pin, green, near oxygen sensor, behind Three Way Catalytic Converter (TWC)
- T4t - Connector 4 pin, brown, near oxygen sensor 2, behind Three Way Catalytic Converter (TWC)
- Z29 - Oxygen Sensor (O2S) Heater 1 (behind Three Way Catalytic Converter (TWC))
- Z30 - Oxygen Sensor (O2S) Heater 2 (behind Three Way Catalytic Converter (TWC))

- (85) - Ground Connection 1, in engine compartment wiring harness
- (200) - Ground Connection (shielding), in engine compartment wiring harness
- (D22) - Connection (over fuse 234), in wiring harness front, right
- (D101) - Connection 1, in engine compartment wiring harness

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



Motronic Engine Control Module. Valves. Secondary Air Injection Pump Relay



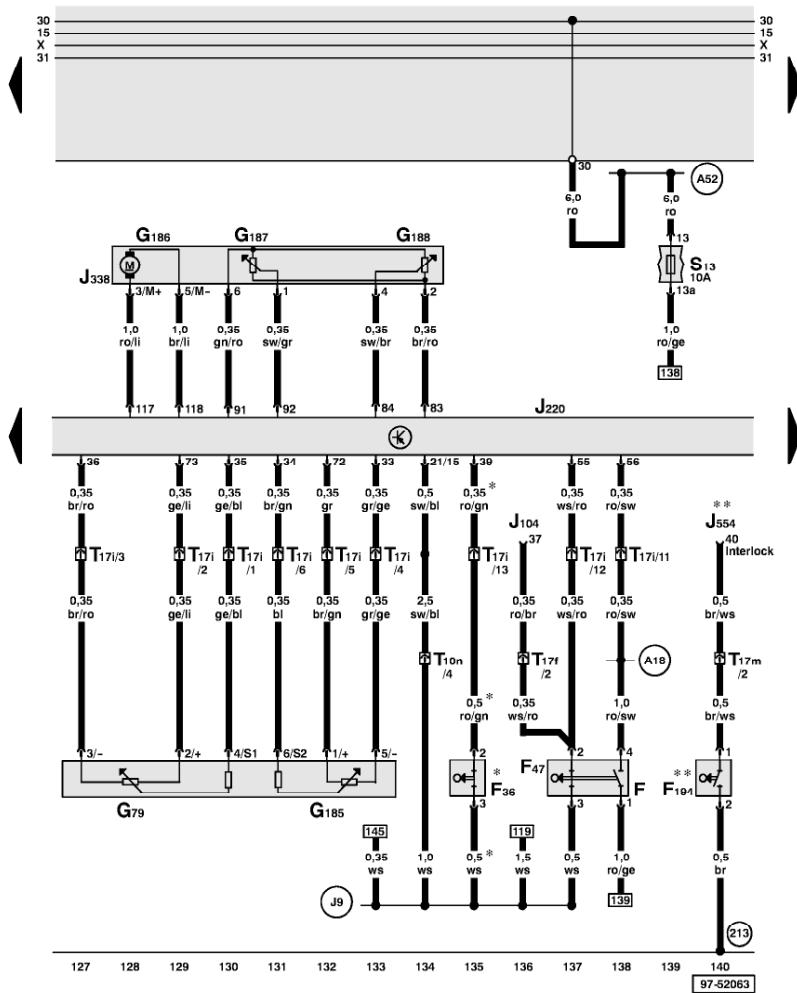
- D - Ignition/Starter Switch
- J220 - Motronic Engine Control Module (ECM)
- J299 - Secondary Air Injection (AIR) Pump Relay
- N8 - Central Idle, Idle Air Control (IAC) Cut Off Valve
- N75 - Wastegate Bypass Regulator Valve
- N80 - Evaporative Emission (EVAP) Canister Purge Regulator Valve
- N112 - Secondary Air Injection (AIR) Solenoid Valve
- S5 - Fuse
- S7 - Fuse
- S130 - Fuse for secondary air pump
- S279 - Hydraulic Pump Relay Fuse
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- V101 - Secondary Air Injection (AIR) Pump Motor

- (12) - Ground Connection, in engine compartment, left
- (A2) - Plus Connection (15), in instrument panel wiring harness
- (A20) - Connection (15a), in instrument panel wiring harness
- (A32) - Plus Connection (30), in instrument panel wiring harness
- (D22) - Connection (over fuse 234), in wiring harness front, right

* - only Vehicles with automatic transmission

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

Motronic Engine Control Module, Brake Light Switch, Throttle Valve Control Module



- F - Brake Light Switch
- F36 - Clutch Pedal Switch
- F47 - Brake Pedal Switch
- F194 - Clutch Pedal Starter Interlock Switch
- G79 - Throttle Position (TP) Sensor
- G185 - Sensor 2 for accelerator pedal position
- 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)
- J338 - Throttle Valve Control Module
- S13 - Fuse
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T17f - Connector 17 pin, black, in 8-Fold Relay Panel behind the storage driver's side
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- T17m - Connector 17 pin, blue, connector station A pillar, right

- (213) - Ground Connection, in instrument panel wiring harness
- (A18) - Connection (54), in instrument panel wiring harness
- (A52) - Plus Connection 2 (30), in instrument panel wiring harness
- (J9) - Connection 1 (15a), in ABS wiring harness
- * - Vehicles with manual transmission
- ** - allroad with manual transmission 01E

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

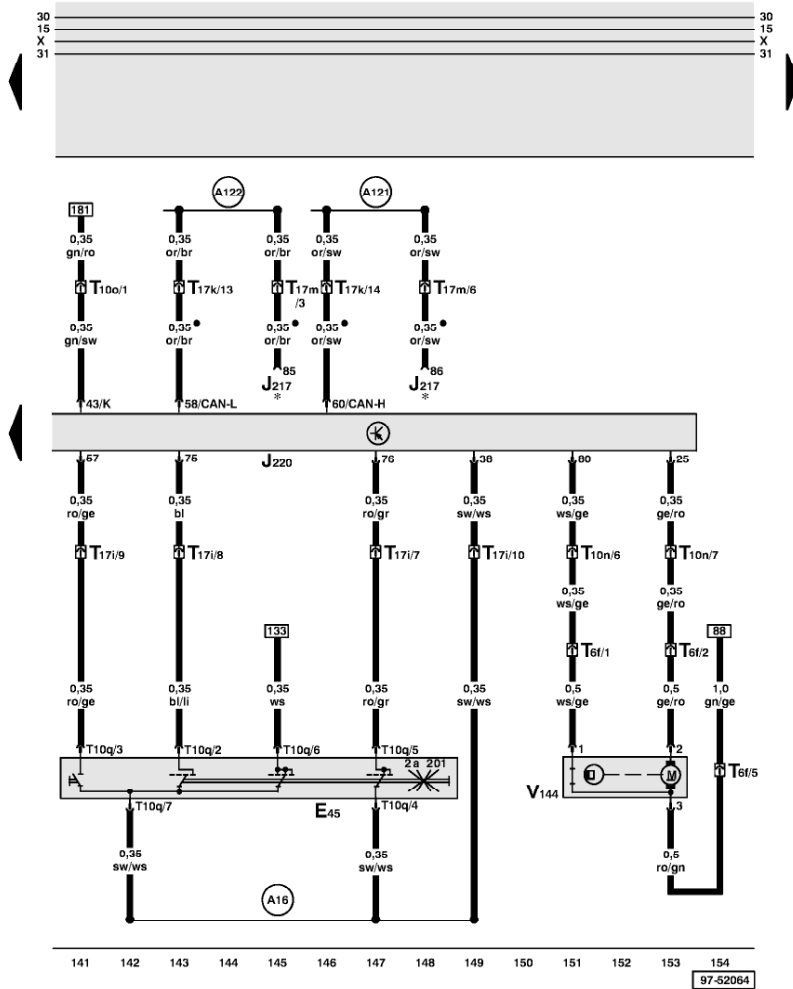
Motronic Engine Control Module, Cruise Control Switch, Leak Detection Pump

- E15 - Cruise Control Switch
- J217 - Transmission Control Module (TCM)
- J220 - Motronic Engine Control Module (ECM)
- T6f Connector 6 pin, darkbrown, connector station A pillar, right
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T10o - Connector 10 pin, brown, connector station electronic box plenum chamber
- T10q - Connector 10 pin, black, on cruise control switch
- T17i - Connector 17 pin, white, connector station electronic box plenum chamber
- T17k - Connector 17 pin, red, connector station electronic box plenum chamber
- T17m - Connector 17 pin, blue, connector station A pillar, right
- V144 - Leak Detection Pump (LDP)

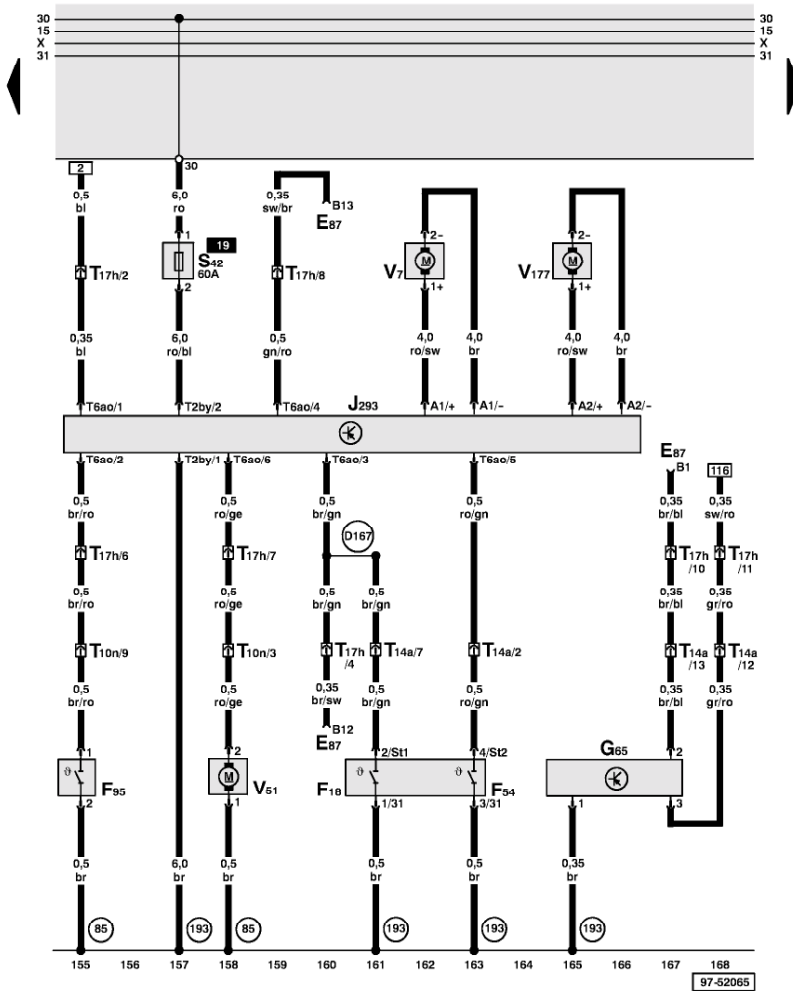
- (A16) - Connection (cruise control), in instrument panel wiring harness
- (A121) - Connection (High-Bus) in instrument panel wiring harness
- (A122) - Connection (Low-Bus) in instrument panel wiring harness

- - CAN-Bus (Data-Bus)
- * - Vehicles with automatic transmission

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



Coolant Fan Control (FC) Control Module, Coolant Fan, Coolant Fan Control (FC) Thermal Switch

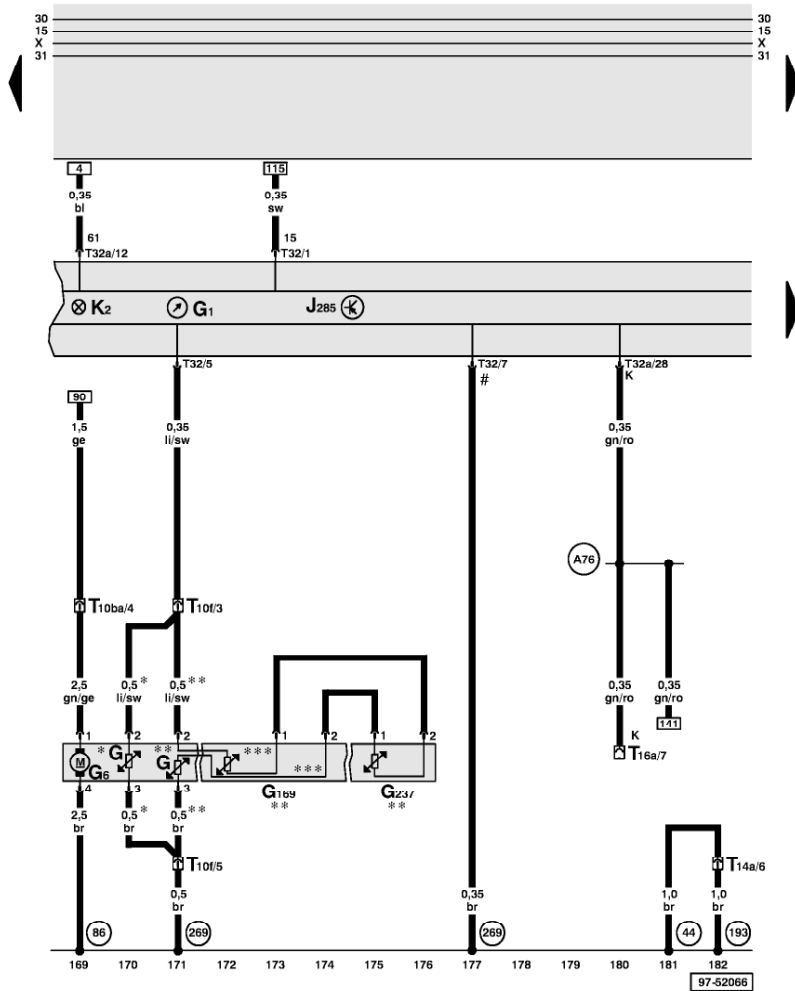


- E87 - A/C Control Head
- F18 - Coolant Fan Control (FC) Thermal Switch
- F54 - Coolant Fan Control (FC) Thermal Switch
- F95 - After Run Coolant Thermal Switch
- G65 - High Pressure Sensor
- J293 - Coolant Fan Control (FC) Control Module
- S42 - Coolant Fan Fuse
- T2by - Connector 2 pin, on Coolant FC (Fan Control) Control Module
- T6ao - Connector 6 pin, on Coolant FC (Fan Control) Control Module
- T10n - Connector 10 pin, orange, connector station electronic box plenum chamber
- T14a - Connector 14 pin, black, in engine compartment, left front
- T17h - Connector 17 pin, brown, connector station A pillar, left
- V7 - Coolant Fan
- V51 - After-Run Coolant Pump
- V177 - Coolant fan 2

- (85) - Ground Connection 1, in engine compartment wiring harness
- (193) - Ground Connection 1, in coolant fan wiring harness
- (D167) - Coolant Fan First Speed Connection (in engine compartment wiring harness)

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

Control Module with Indicator Unit in Instrument Panel Insert, Fuel Pump



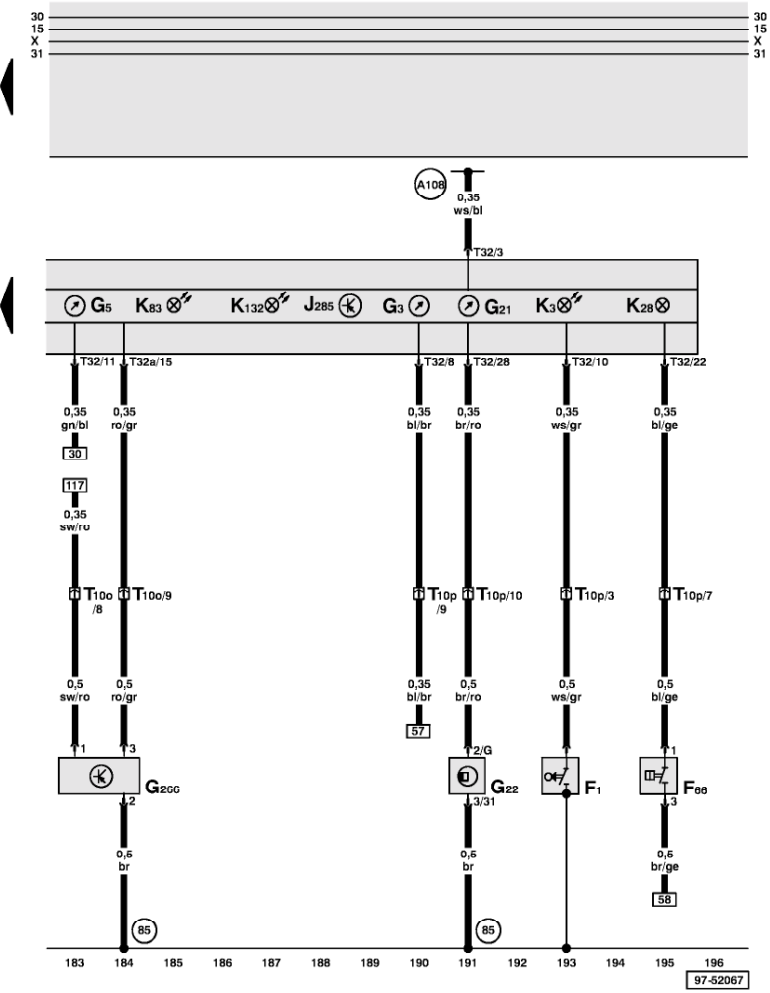
- G - Sender for fuel gauge
- G1 - Fuel Gauge
- G6 - Fuel Pump (FP)
- G169 - Fuel Level Sensor 2
- G237 - Sensor 3 for fuel supply
- J285 - Control Module with indicator unit in instrument panel insert
- K2 - Generator (GEN) Warning Light
- T10f - Connector 10 pin, brown, connector station A pillar, left
- T10ba - Connector 10 pin, blue, connector station A pillar, left
- T14a - Connector 14 pin, black, in engine compartment, left front
- T16a - Connector 16 pin, Data Link Connector (DLC)
- T32 - Connector 32 pin, blue, on instrument cluster
- T32a - Connector 32 pin, green, on instrument cluster

- (44) - Ground Connection, on left A-pillar, lower part
- (86) - Ground Connection 1, in rear wiring harness
- (193) - Ground Connection 1, in coolant fan wiring harness
- (269) - Ground connector (sensor ground) 1, in instrument panel wiring harness
- (A76) - Connection (K-diagnosis wire), in instrument panel wiring harness

- * - Vehicles with front wheel drive
- ** - Vehicles with all wheel drive
- *** - Wiring inside fuel tank
- # - Exit Sensor ground

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

Control Module with Indicator Unit in Instrument Panel Insert, Oil Level Thermal Sensor, Oil Pressure Warning Light



- F1 - Oil Pressure Switch
 - F66 - Engine Coolant Level (ECL) Warning Switch
 - G3 - Engine Coolant Temperature (ECT) Gauge
 - G5 - Tachometer
 - G21 - Speedometer
 - G22 - Speedometer Vehicle Speed Sensor (VSS)
 - G266 - Oil Level Thermal Sensor (SRI)
 - J285 - Control Module with indicator unit in instrument panel insert
 - K3 - Oil Pressure Warning Light
 - K28 - Engine Coolant Level/Temperature (ECL/ECT) Warning Light
 - K83 - Malfunction Indicator Lamp (MIL)
 - K132 - Electronic Power Control (EPC) Warning Lamp
 - T10o - Connector 10 pin, brown, connector station electronic box plenum chamber
 - T10p - Connector 10 pin, black, connector station electronic box plenum chamber
 - T32 - Connector 32 pin, blue, on instrument cluster
 - T32a - Connector 32 pin, green, on instrument cluster
- 85 - Ground Connection 1, in engine compartment wiring harness
A108 - Connection (speed signal), in instrument panel wiring harness

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