

**6.0L - Engine - Motronic Multiport Fuel Injection (MFI)/ 309 kW, code BAP,**

**from June 2003**

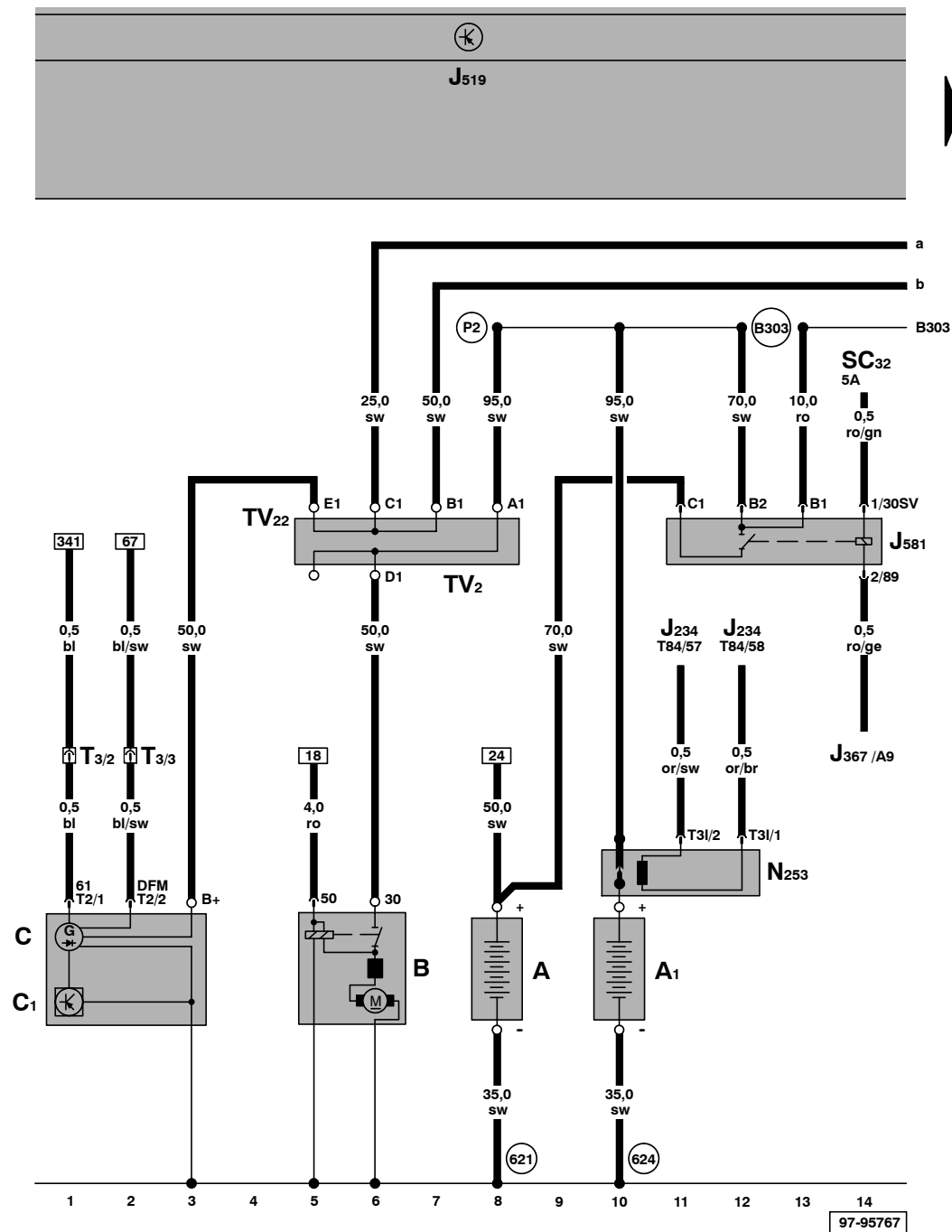
**Note:**

*Information for*

- ◆ *Relay and fuse arrangements*
- ◆ *Connector arrangements*
- ◆ *Control Modules and Relays*
- ◆ *Ground connections*
- ⇒ *Component Locations!*

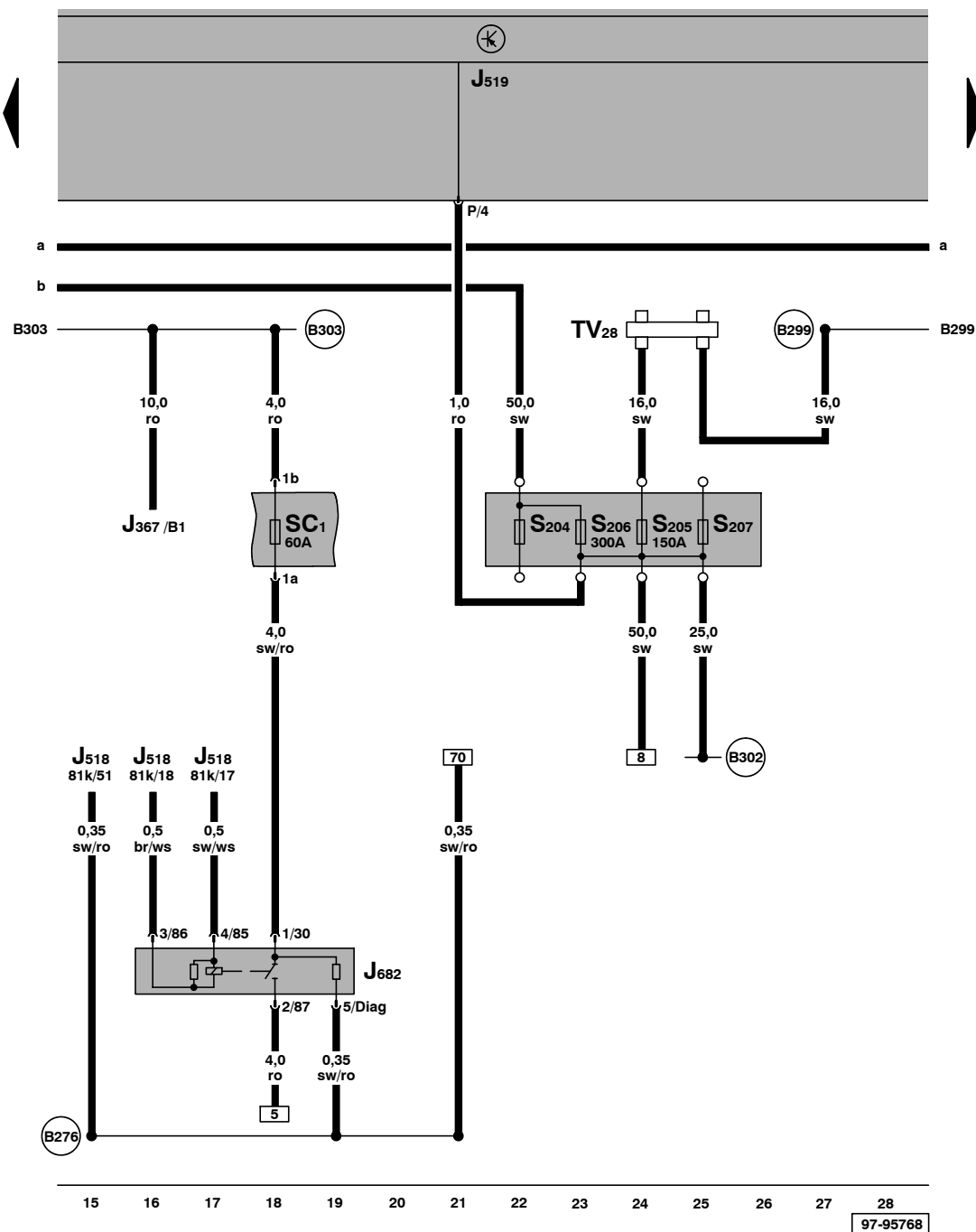
*Information for*

- ◆ *Troubleshooting Procedures*
- ⇒ *Guided Fault Finding using VAS 5051/5052*



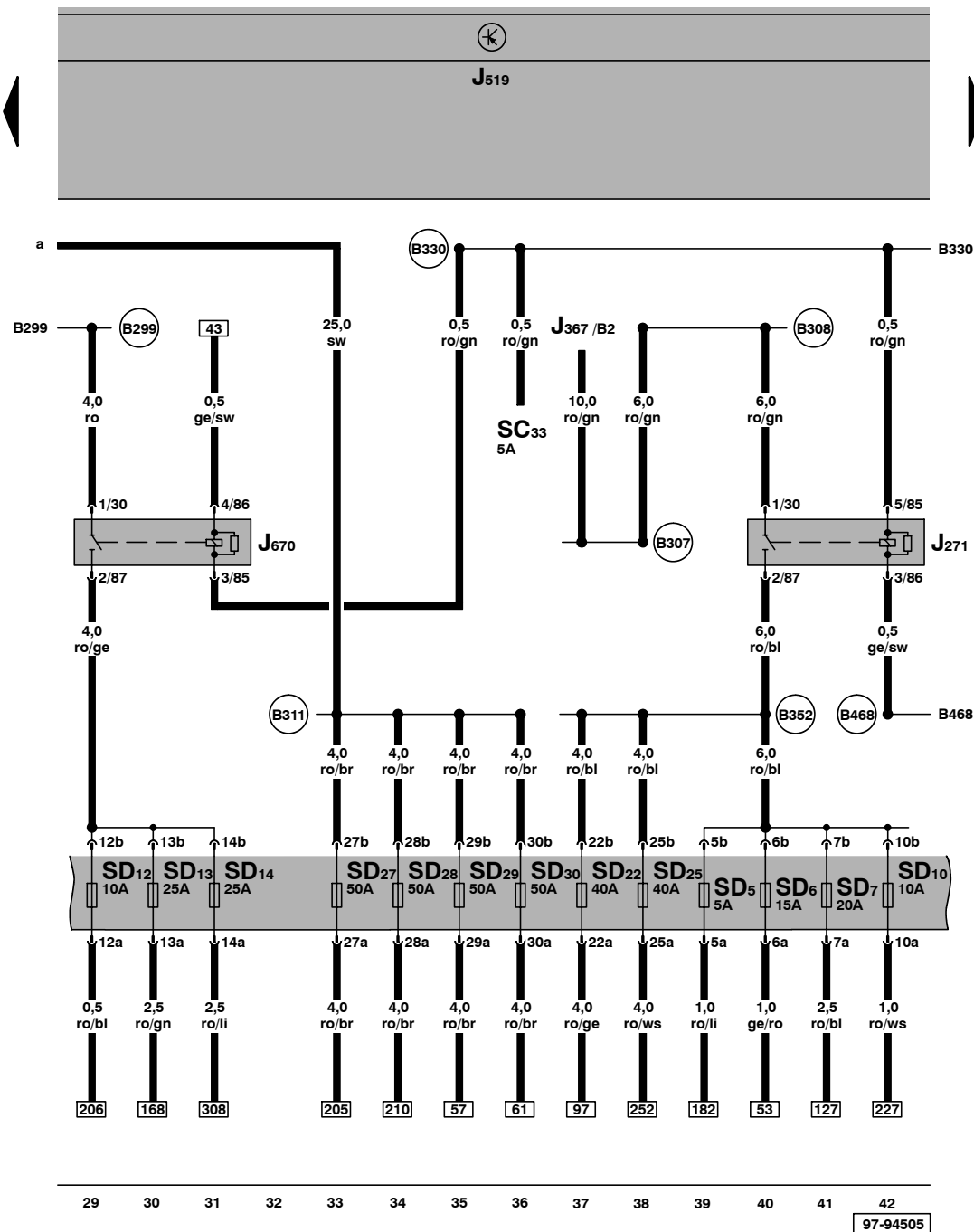
### Battery, Auxiliary Battery, Starter, Generator (GEN), Parallel Battery Connection Relay, Battery Interrupt Igniter

- A - Battery
  - A1 - Auxiliary Battery
  - B - Starter
  - C - Generator (GEN)
  - C1 - Voltage Regulator (VR)
  - J234 - Airbag Control Module
  - J367 - Battery Monitoring Control Module
  - J519 - Vehicle Electrical System Control Module
  - J581 - Parallel Battery Connection Relay
  - N253 - Battery Interrupt Igniter
  - SC32 - Fuse 32 (on fuse panel C)
  - T2 - Double Connector
  - T3 - 3-Pin Connector
  - T3I - 3-Pin Connector
  - T84 - 84-Pin Connector
  - TV2 - Terminal 30 Wire Junction
  - TV22 - Terminal 30 Wire Junction 2
- (621) - Ground Connection (near electrical system battery)
  - (624) - Ground Connection (near starter battery)
  - (B303) - Plus Connection 7 (30) (in main wiring harness)
  - (P2) - Plus Connection (30) (in battery wiring harness)

**Power Supply Relay (terminal 50), fuse S204, S205, S206, S207, SC1**

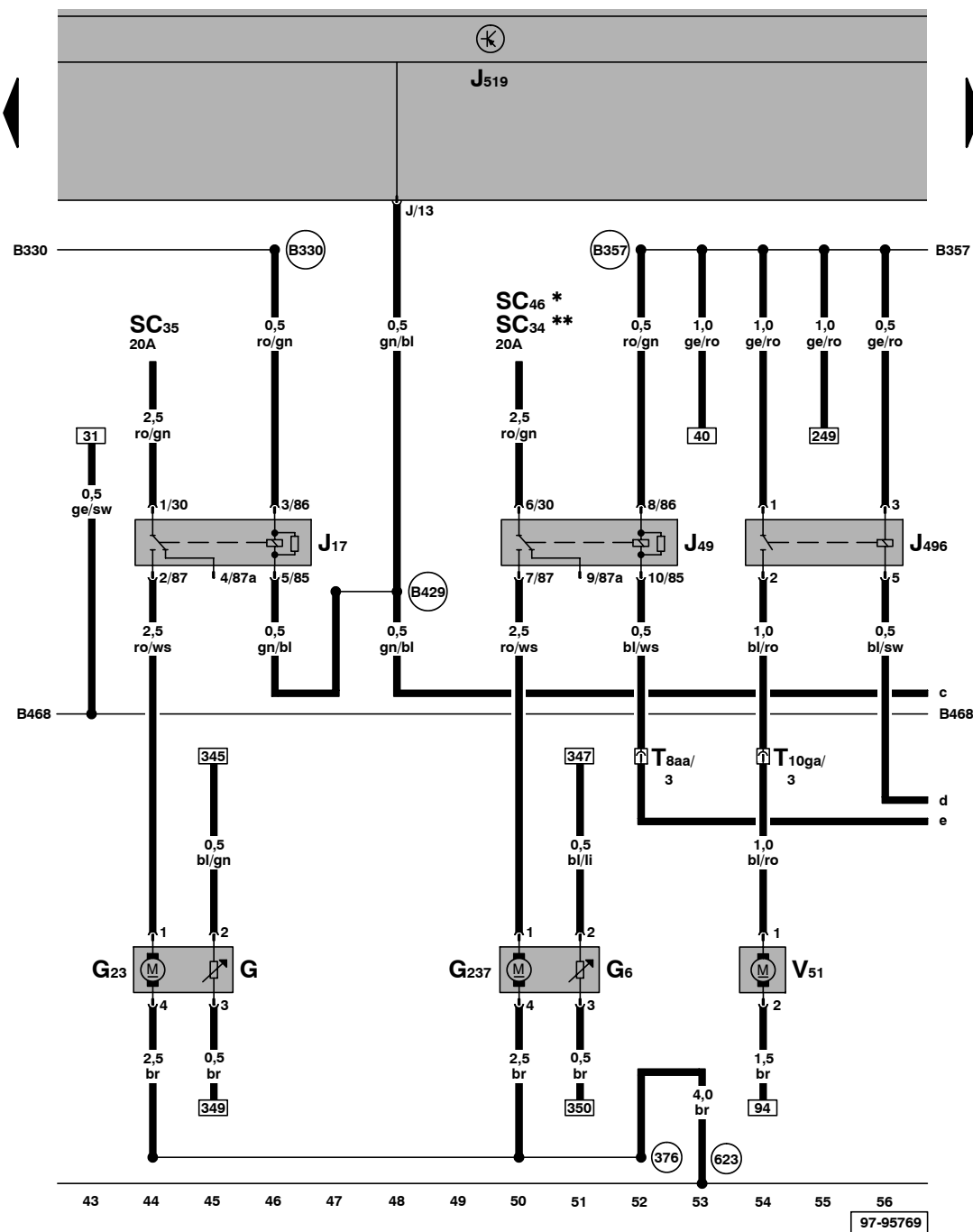
- J367 - Battery Monitoring Control Module
- J518 - Access/Start Control Module
- J519 - Vehicle Electrical System Control Module
- J682 - Power Supply Relay (terminal 50)
- S204 - Fuse 1 - terminal 30
- S205 - Fuse 2 - terminal 30
- S206 - Fuse 3 - terminal 30
- S207 - Fuse 4 - terminal 30
- SC1 - Fuse 1 (on fuse panel C)
- T81k - 81-Pin Connector
- TV28 - Terminal 30 Wire Junction 3

- (B276) - Plus Connection (50) (in main wiring harness)
- (B299) - Plus Connection 3 (30) (in main wiring harness)
- (B302) - Plus Connection 6 (30) (in main wiring harness)
- (B303) - Plus Connection 7 (30) (in main wiring harness)

**Motronic Engine Control Module (ECM) Power Supply Relay, Motronic Engine Control Module (ECM) Power Supply Relay 2, fuses**


- J271 - Motronic Engine Control Module (ECM) Power Supply Relay
- J367 - Battery Monitoring Control Module
- J519 - Vehicle Electrical System Control Module
- J670 - Motronic Engine Control Module (ECM) Power Supply Relay 2
- SC33 - Fuse 33 (on fuse panel C)
- SD5 - Fuse 5 (on fuse panel D)
- SD6 - Fuse 6 (on fuse panel D)
- SD7 - Fuse 7 (on fuse panel D)
- SD10 - Fuse 10 (on fuse panel D)
- SD12 - Fuse 12 (on fuse panel D)
- SD13 - Fuse 13 (on fuse panel D)
- SD14 - Fuse 14 (on fuse panel D)
- SD22 - Fuse 22 (on fuse panel D)
- SD25 - Fuse 25 (on fuse panel D)
- SD27 - Fuse 27 (on fuse panel D)
- SD28 - Fuse 28 (on fuse panel D)
- SD29 - Fuse 29 (on fuse panel D)
- SD30 - Fuse 30 (on fuse panel D)

- (B299) - Plus Connection 3 (30) (in main wiring harness)
- (B307) - Plus Connection 11 (30) (in main wiring harness)
- (B308) - Plus Connection 12 (30) (in main wiring harness)
- (B311) - Plus Connection 15 (30) (in main wiring harness)
- (B330) - Plus Connection 16 (30a) (in main wiring harness)
- (B352) - Plus Connection 3 (87a) (in main wiring harness)
- (B468) - Connection 4 (in main wiring harness)



**Fuel Pump (FP) Relay, Fuel Pump (FP) 2 Relay, Auxiliary Engine Coolant (EC) Pump Relay, Fuel Level Sensor, Fuel Level Sensor 3, Transfer Fuel Pump (FP), Fuel Pump (FP)**

- G - Fuel Level Sensor, right Unit
- G6 - Transfer Fuel Pump (FP), left Unit
- G23 - Fuel Pump (FP), right Unit
- G237 - Fuel Level Sensor 3, left Unit
- J17 - Fuel Pump (FP) Relay
- J49 - Fuel Pump (FP) 2 Relay
- J496 - Auxiliary Engine Coolant (EC) Pump Relay
- J519 - Vehicle Electrical System Control Module
- SC34 - Fuse 34 (on fuse panel C)
- SC35 - Fuse 35 (on fuse panel C)
- SC46 - Fuse 46 (on fuse panel C)
- T8aa - 8-Pin Connector, connector station 3/ in basic engine harness
- T10ga - 10-Pin Connector, connector station 1/ transmission
- V51 - After-Run Coolant Pump
- (376) - Ground Connection 11 (in main wiring harness)
- (623) - Ground Plate Ground Connection 2
- (B330) - Plus Connection 16 (30a) (in main wiring harness)
- (B357) - Plus Connection 8 (87a) (in main wiring harness)
- (B429) - Fuel Pump (FP) Relay Connection (in main wiring harness)

- \* - From November 2003
- \*\* - Through October 2003

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

97-95769

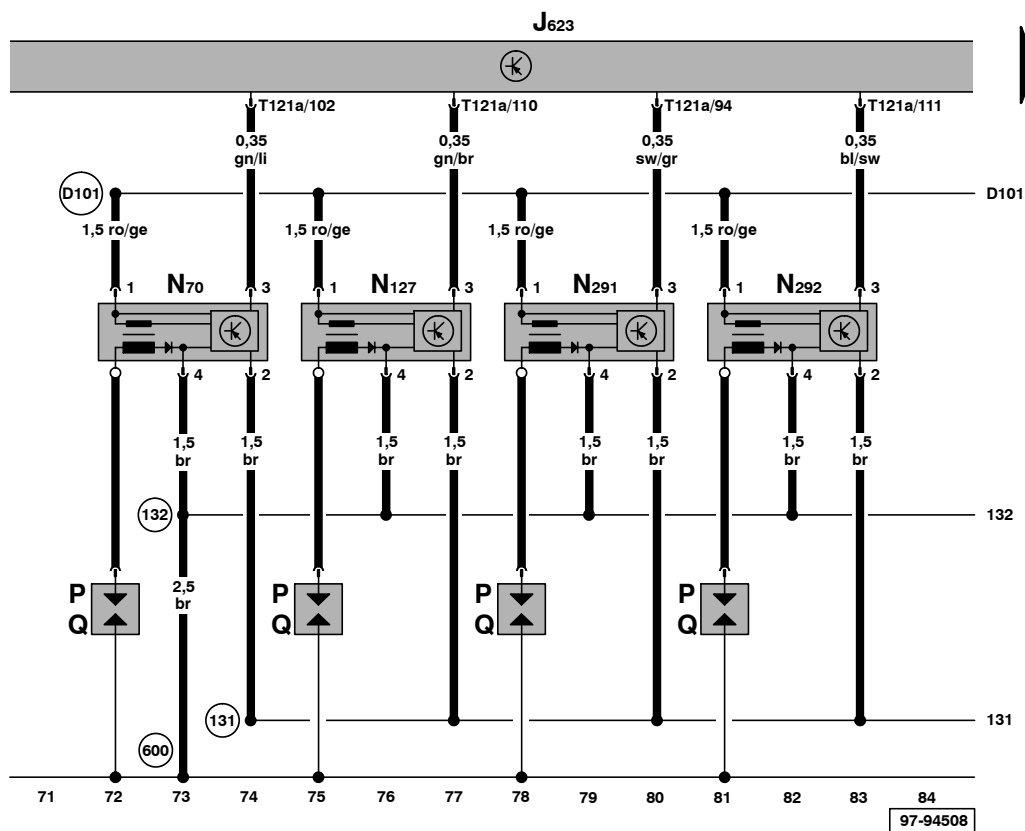


- 398 - Ground Connection 33 (in main wiring harness)
- 641 - Secondary Air Pump Ground Connection 2
- B357 - Plus Connection 8 (87a) (in main wiring harness)
- B441 - Cruise Control Connection (in main wiring harness)
- B468 - Connection 4 (in main wiring harness)

# Engine Control Module (ECM), Ignition Coil 1-4 with Power Output Stage

J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 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 Connector  
 Q - Spark Plug  
 T121a- 121-Pin Connector

(131) - Ground Connection 2 (in engine compartment wiring harness)  
 (132) - Ground Connection 3 (in engine compartment wiring harness)  
 (600) - Ground Connection (on cylinder head, right)  
 (D101) - Connection 1 (in engine compartment wiring harness)

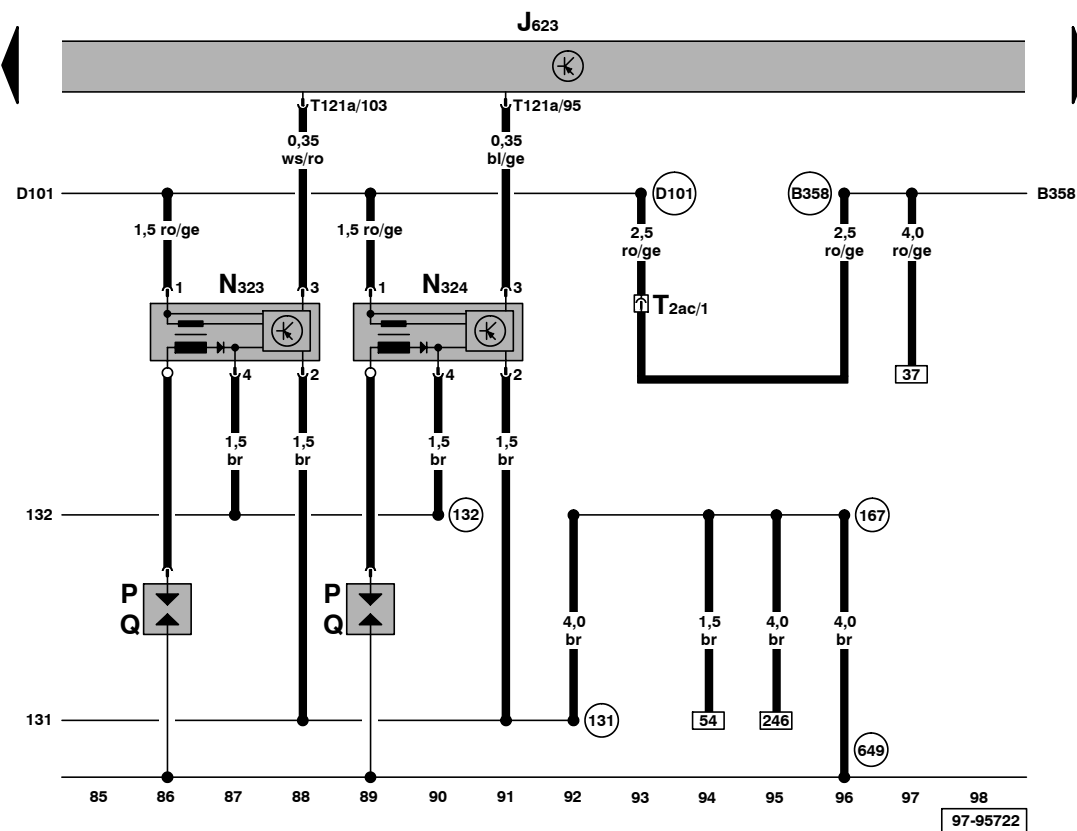


ws = white  
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### Engine Control Module (ECM), Ignition Coil 5 and 6 with Power Output Stage

J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 N323- Ignition Coil 5 with Power Output Stage  
 N324- Ignition Coil 6 with Power Output Stage  
 P - Spark Plug Connector  
 Q - Spark Plug  
 T2ac - Double Connector, black, connector station 1/  
 in basic engine harness  
 T121a- 121-Pin Connector

(131) - Ground Connection 2 (in engine compartment wiring harness)  
 (132) - Ground Connection 3 (in engine compartment wiring harness)  
 (167) - Ground Connection 4 (in engine compartment wiring harness)  
 (649) - Ground Connection 5 (on firewall)  
 (B358) - Plus Connection 9 (87a) (in main wiring harness)  
 (D101) - Connection 1 (in engine compartment wiring harness)

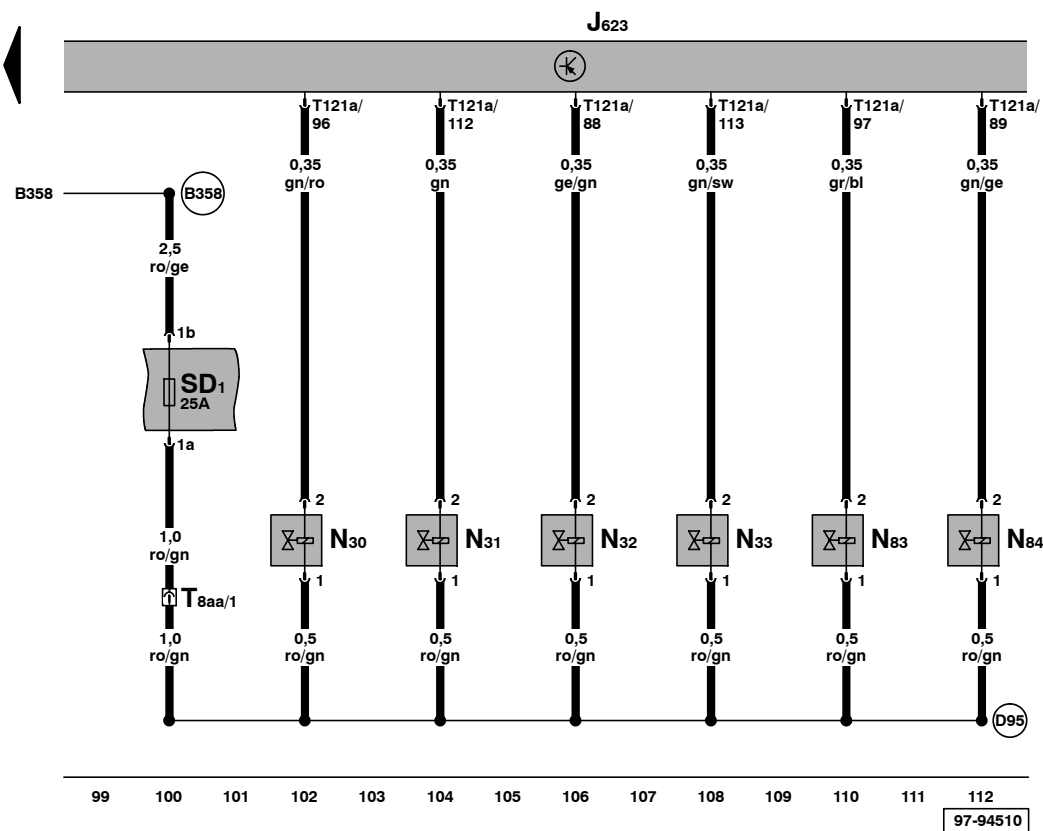




**Engine Control Module (ECM), Cylinder 1-6 Fuel Injectors, fuse SD1**

- J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 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  
 SD1 - Fuse 1 (on fuse panel D)  
 T8aa - 8-Pin Connector, connector station 3/ in basic engine harness  
 T121a- 121-Pin Connector

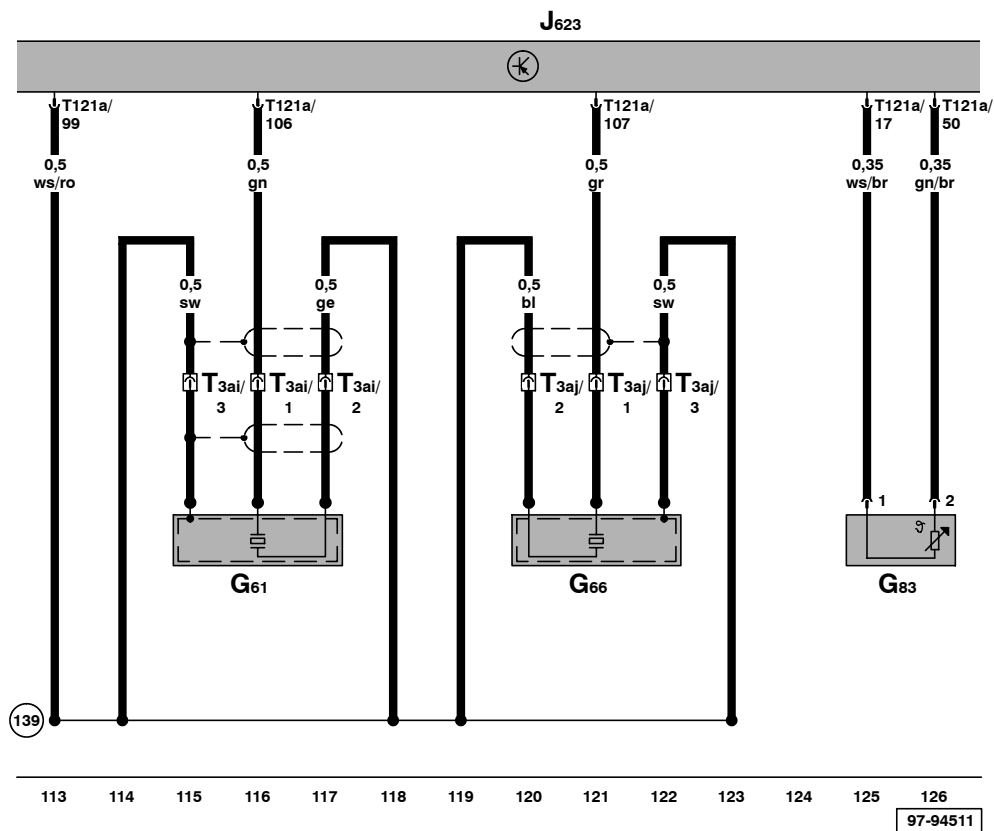
- (B358) - Plus Connection 9 (87a) (in main wiring harness)  
 (D95) - Injectors Connection (in engine compartment wiring harness)



**Engine Control Module (ECM), Knock Sensor (KS) 1,  
Knock Sensor (KS) 2, Engine Coolant Temperature  
(ECT) Sensor (on Radiator)**

- G61 - Knock Sensor (KS) 1  
 G66 - Knock Sensor (KS) 2  
 G83 - Engine Coolant Temperature (ECT) Sensor (on Radiator)  
 J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 T3ai - 3-Pin Connector  
 T3aj - 3-Pin Connector  
 T121a- 121-Pin Connector

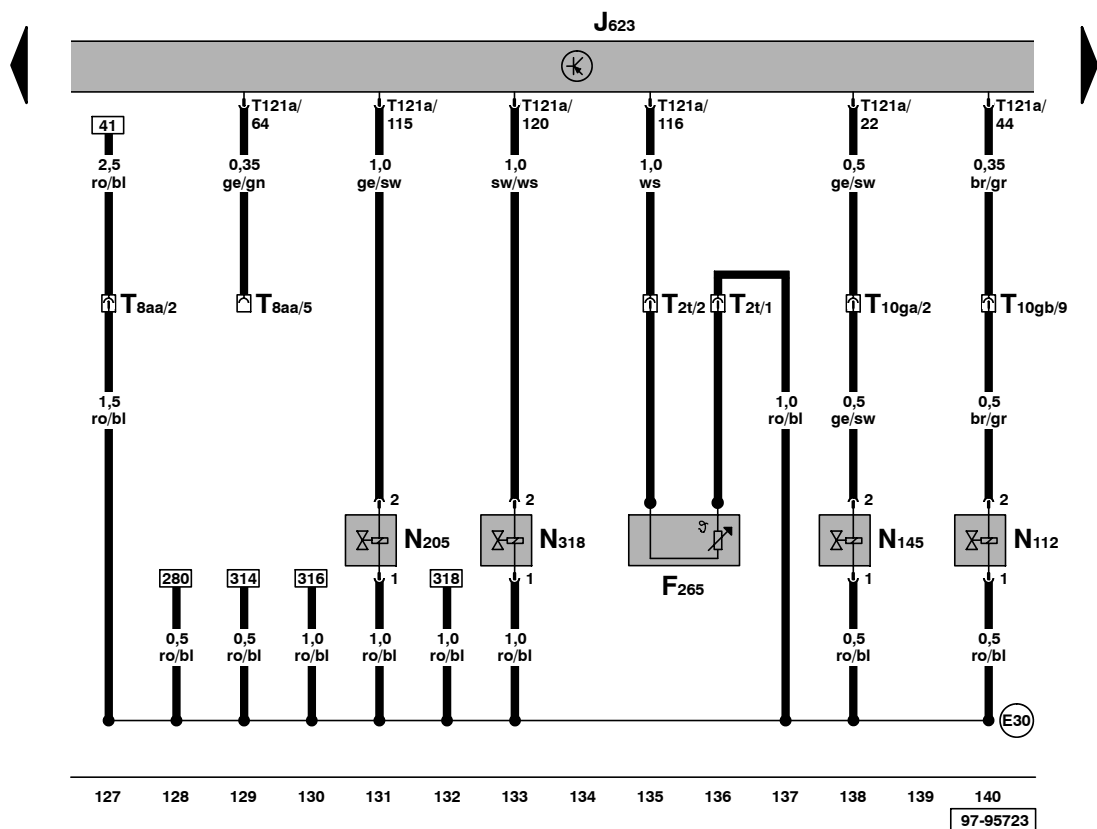
(139) - Sensor Ground Connection (in Motronic  
Multiport Fuel Injection (MFI) wiring harness)



**Engine Control Module (ECM), Map Controlled Engine Cooling Thermostat, Secondary Air Injection (AIR) Solenoid Valve, Right Electro-Hydraulic Engine Mount Solenoid Valve, N145, N205**

- F265 - Map Controlled Engine Cooling Thermostat  
 J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 N112 - Secondary Air Injection (AIR) Solenoid Valve  
 N145 - Right Electro-Hydraulic Engine Mount Solenoid Valve  
 N205 - Camshaft Adjustment Valve 1  
 N318 - Camshaft Adjustment Valve 1 (exhaust)  
 T2t - Double Connector, on motor rear  
 T8aa - 8-Pin Connector, connector station 3/ in basic engine harness  
 T10ga- 10-Pin Connector, connector station 1/ transmission  
 T10gb- 10-Pin Connector, connector station 2/ transmission  
 T121a- 121-Pin Connector

⊕ - Connection (87a) (in engine wiring harness)

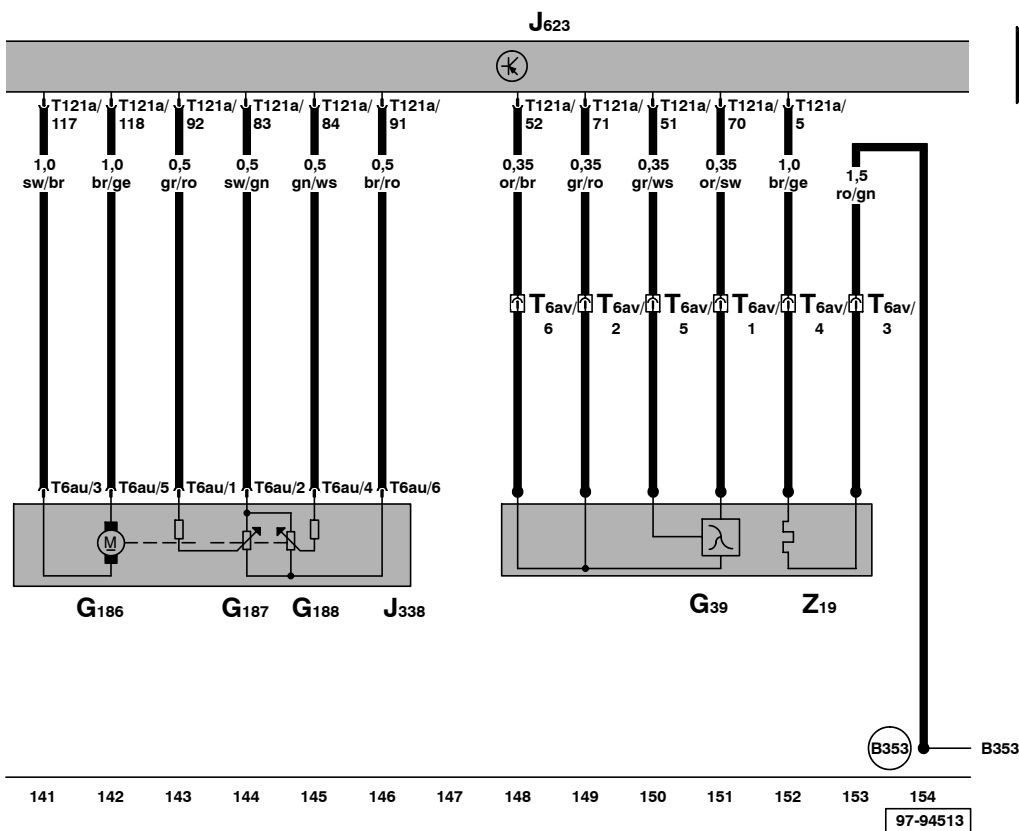


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**Engine Control Module (ECM), Throttle Valve Control Module, Heated Oxygen Sensor (HO2S)**

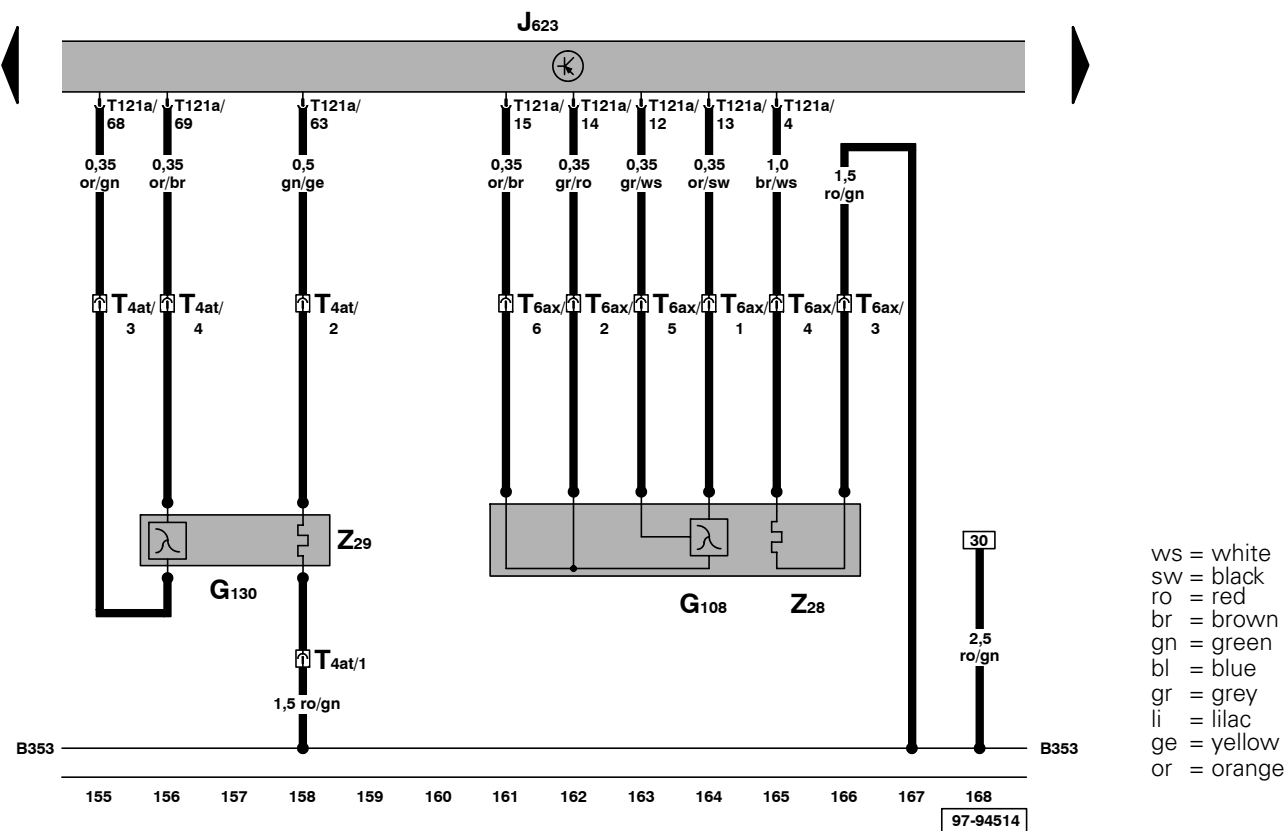
- G39 - Heated Oxygen Sensor (HO2S)  
 G186 - Throttle Drive (for Electronic Power Control (EPC))  
 G187 - Throttle Drive Angle Sensor 1 (for Electronic Power Control (EPC))  
 G188 - Throttle Drive Angle Sensor 2 (for Electronic Power Control (EPC))  
 J338 - Throttle Valve Control Module  
 J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 T6av - 6-Pin Connector, black, connector station 1/ on front of plenum chamber  
 T6au - 6-Pin Connector  
 T121a - 121-Pin Connector  
 Z19 - Oxygen Sensor (O2S) Heater

(B353) - Plus Connection 4 (87a) (in main wiring harness)



**Engine Control Module (ECM), Heated Oxygen Sensor (HO2S) 2, Oxygen Sensor (O2S) behind Three Way Catalytic Converter (TWC)**

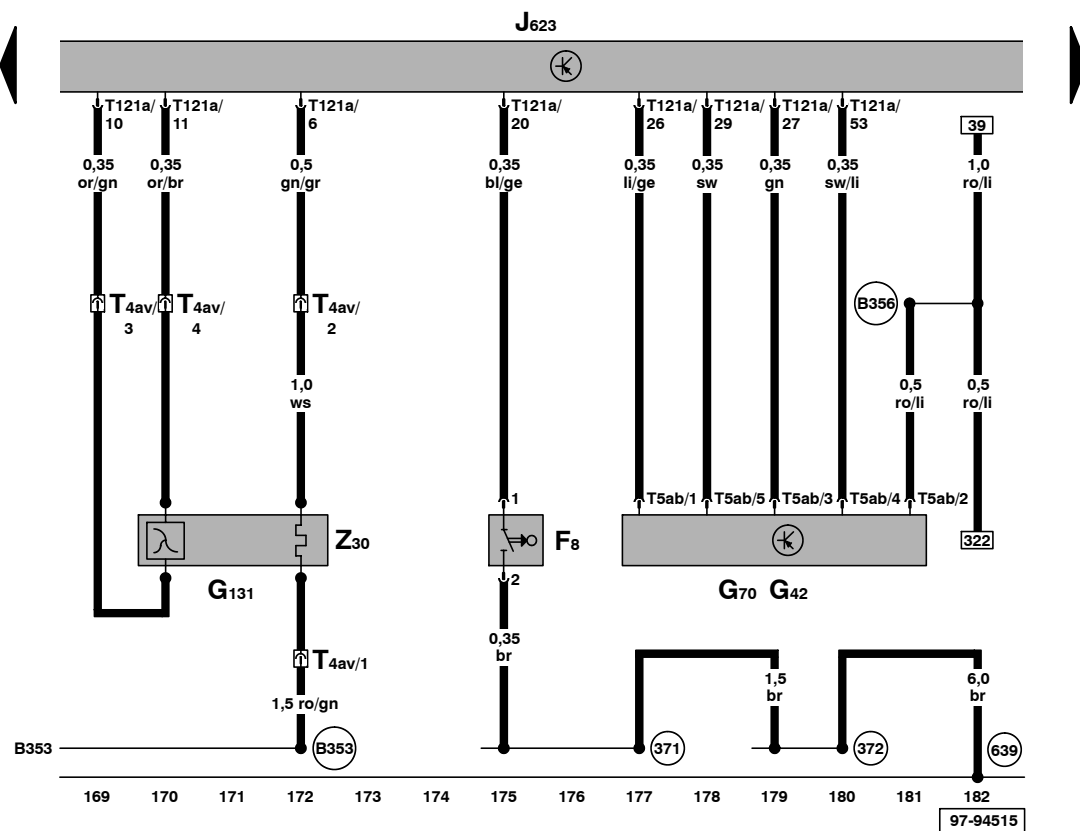
- G108 - Heated Oxygen Sensor (HO2S) 2
- G130 - Oxygen Sensor (O2S) behind Three Way Catalytic Converter (TWC)
- J519 - Vehicle Electrical System Control Module
- J623 - Engine Control Module (ECM)
- T4at - 4-Pin Connector, black, connector station 3/ on front of plenum chamber
- T6ax - 6-Pin Connector, green, connector station 2/ on front of plenum chamber
- T121a- 121-Pin Connector
- Z28 - Oxygen Sensor (O2S) Heater 2
- Z29 - Oxygen Sensor (O2S) Heater 1 (behind Three Way Catalytic Converter (TWC))



**Engine Control Module (ECM), Kick Down Switch, Intake Air Temperature (IAT) Sensor, Mass Air Flow (MAF) Sensor, Oxygen Sensor (O2S) 2 behind Three Way Catalytic Converter (TWC)**

- F8 - Kick Down Switch
- G42 - Intake Air Temperature (IAT) Sensor
- G70 - Mass Air Flow (MAF) Sensor
- G131 - Oxygen Sensor (O2S) 2 behind Three Way Catalytic Converter (TWC)
- J519 - Vehicle Electrical System Control Module
- J623 - Engine Control Module (ECM)
- T4av - 4-Pin Connector, green, connector station 4/ on front of plenum chamber
- T5ab - 5-Pin Connector
- T121a- 121-Pin Connector
- Z30 - Oxygen Sensor (O2S) Heater 2 (behind Three Way Catalytic Converter (TWC))

- (371) - Ground Connection 6 (in main wiring harness)
- (372) - Ground Connection 7 (in main wiring harness)
- (639) - Ground Connection (on left A-pillar)
- (B353) - Plus Connection 4 (87a) (in main wiring harness)
- (B356) - Plus Connection 7 (87a) (in main wiring harness)

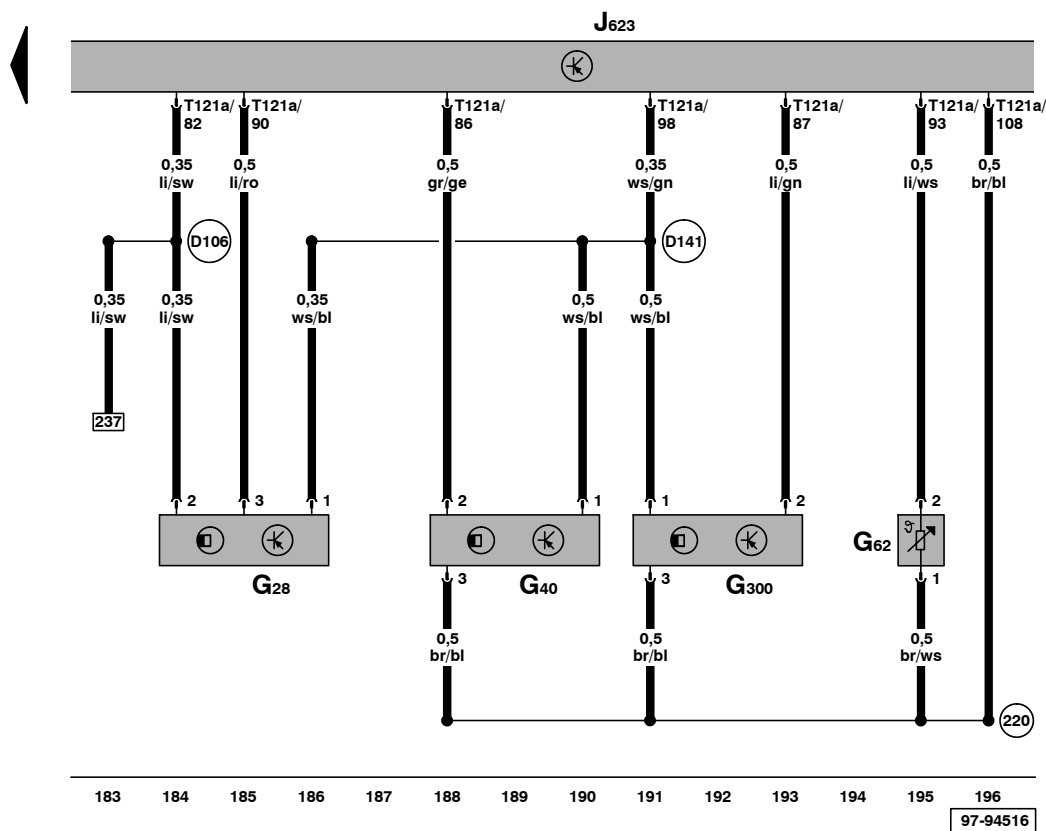


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**Engine Control Module (ECM), Camshaft Position (CMP) Sensor, Engine Coolant Temperature (ECT) Sensor, Camshaft Position (CMP) Sensor 3, Engine Speed (RPM) Sensor**

G28 - Engine Speed (RPM) Sensor  
 G40 - Camshaft Position (CMP) Sensor  
 G62 - Engine Coolant Temperature (ECT) Sensor  
 G300 - Camshaft Position (CMP) Sensor 3  
 J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 T121a- 121-Pin Connector

(220) - Sensor Ground Connection (in engine compartment wiring harness)  
 (D106) - Connection 4 (in engine compartment wiring harness)  
 (D141) - Connection (5V) (in engine pre-wiring wiring harness)



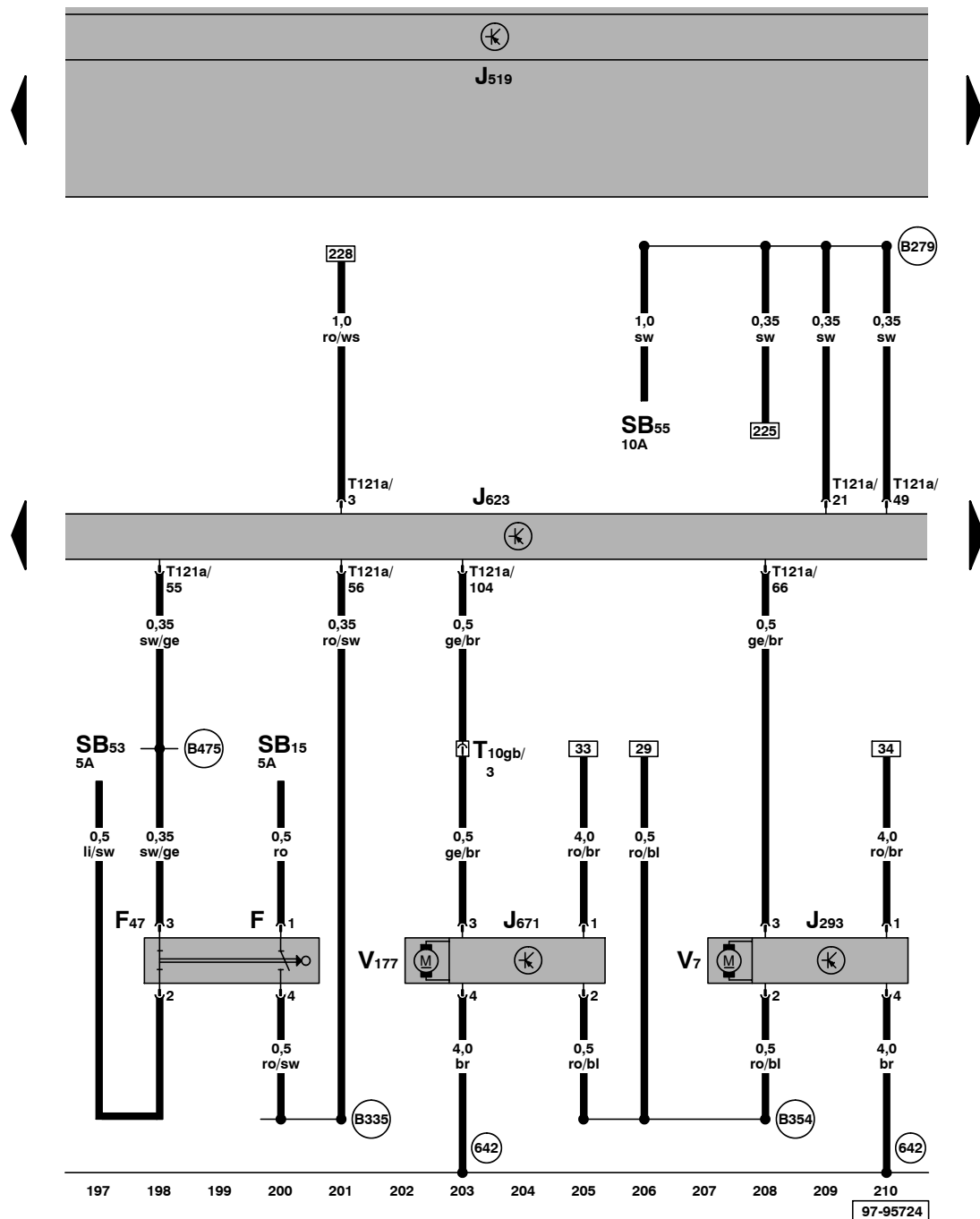
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**Engine Control Module (ECM), Brake Light Switch, Brake Pedal Switch, Coolant Fan Control (FC) Control Module, Coolant Fan Control (FC) Control Module 2, Coolant Fan**

- F - Brake Light Switch  
 F47 - Brake Pedal Switch  
 J293 - Coolant Fan Control (FC) Control Module  
 J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 J671 - Coolant Fan Control (FC) Control Module 2  
 SB15 - Fuse 15 (on fuse panel B)  
 SB53 - Fuse 53 (on fuse panel B)  
 SB55 - Fuse 55 (on fuse panel B)  
 T10gb - 10-Pin Connector, connector station 2/ transmission  
 T121a - 121-Pin Connector  
 V7 - Coolant Fan  
 V177 - Coolant Fan 2

- (642) - Ground Connection (on electronic fan control)  
 (B279) - Plus Connection 3 (15a) (in main wiring harness)  
 (B335) - Connection 1 (54) (in main wiring harness)  
 (B354) - Plus Connection 5 (87a) (in main wiring harness)  
 (B475) - Connection 11 (in main wiring harness)

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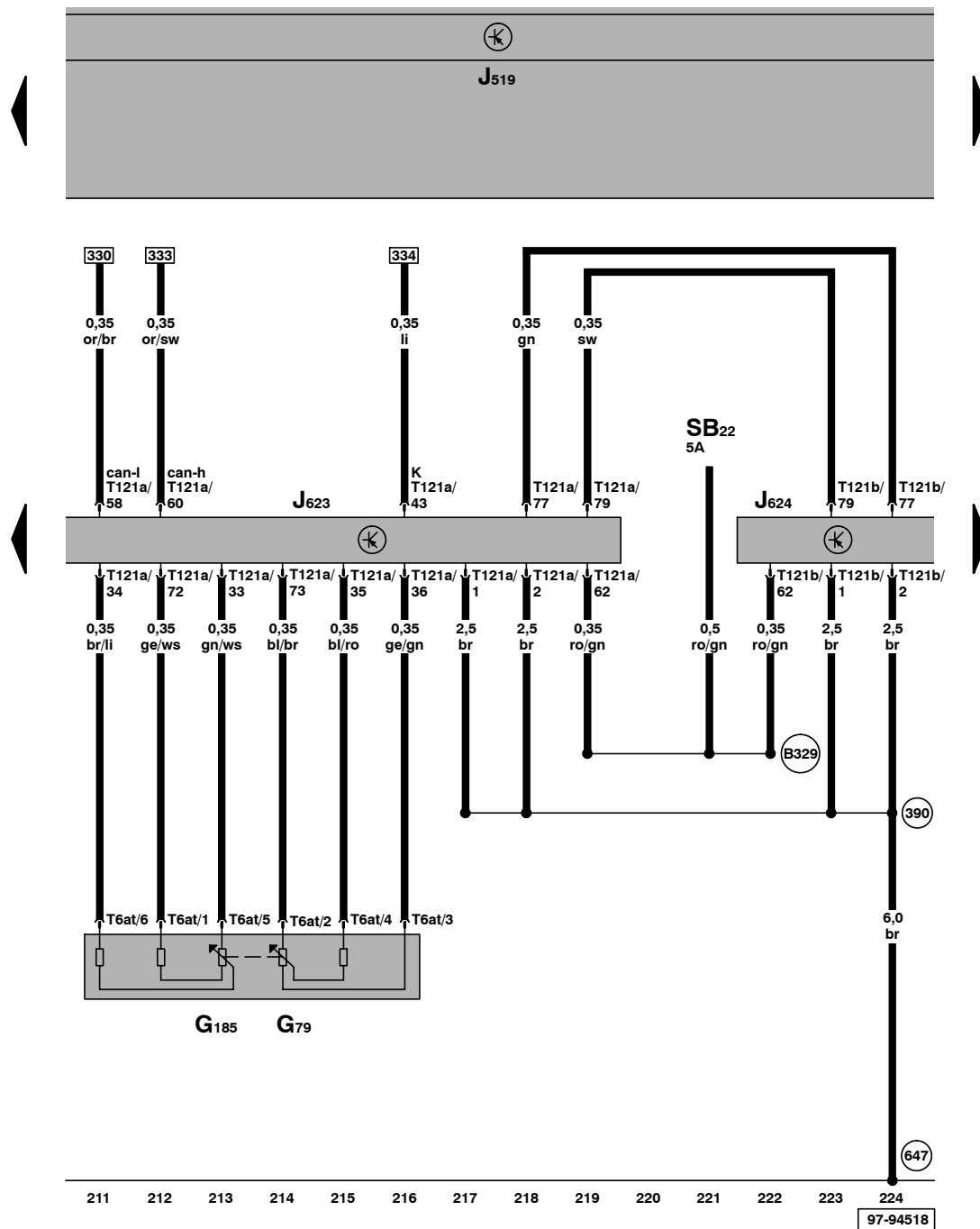


**Engine Control Module (ECM), Engine Control Module (ECM) 2, Throttle Position (TP) Sensor**

G79 - Throttle Position (TP) Sensor  
 G185 - Accelerator Pedal Position Sensor 2  
 J519 - Vehicle Electrical System Control Module  
 J623 - Engine Control Module (ECM)  
 J624 - Engine Control Module (ECM) 2  
 SB22 - Fuse 22 (on fuse panel B)  
 T6at - 6-Pin Connector  
 T121a - 121-Pin Connector  
 T121b - 121-Pin Connector

(390) - Ground Connection 25 (in main wiring harness)  
 (647) - Ground Connection 3 (on firewall)  
 (B329) - Plus Connection 15 (30a) (in main wiring harness)

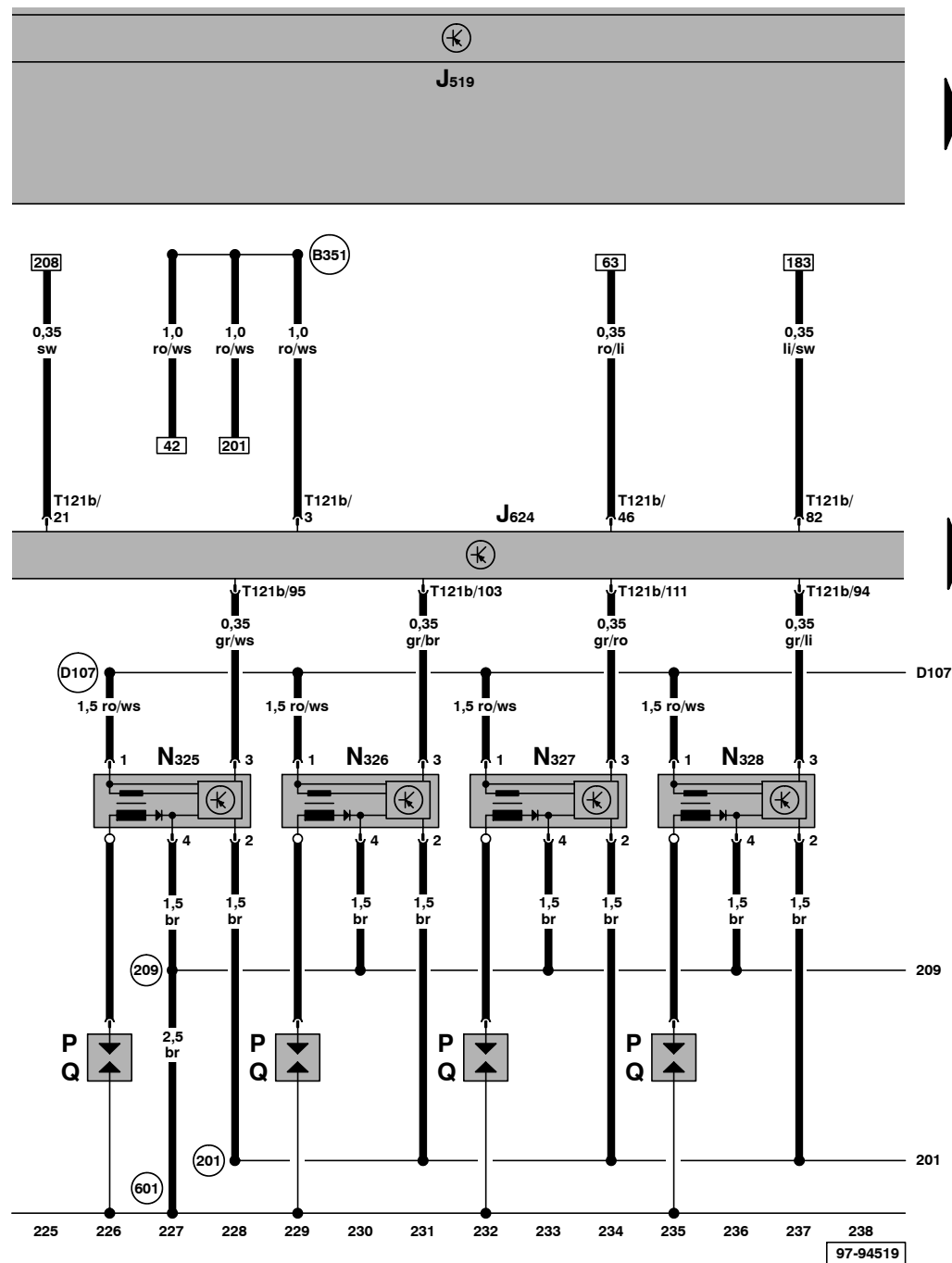
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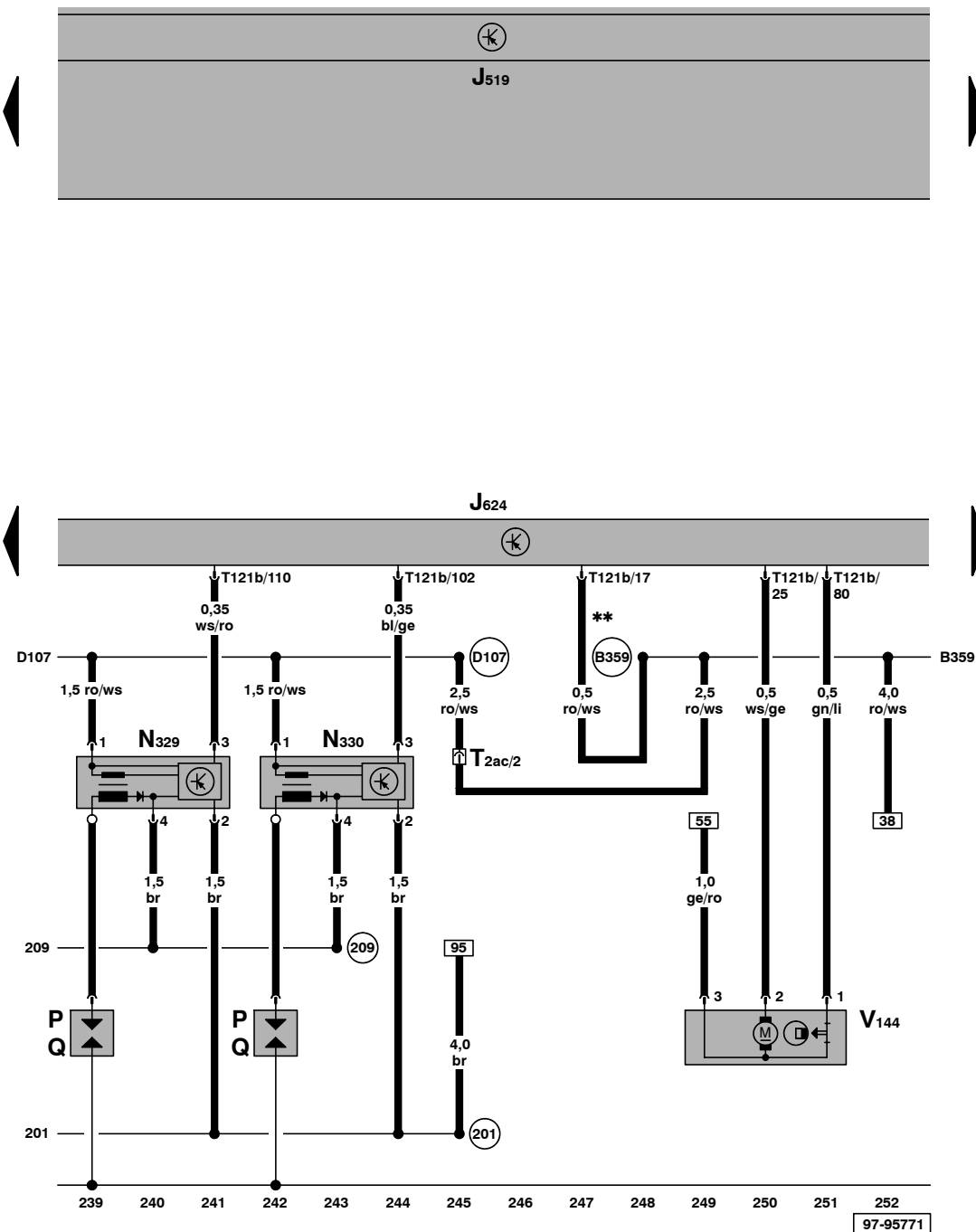
### Engine Control Module (ECM) 2, Ignition Coil 7-10 with Power Output Stage

J519 - Vehicle Electrical System Control Module  
 J624 - Engine Control Module (ECM) 2  
 N325- Ignition Coil 7 with Power Output Stage  
 N326- Ignition Coil 8 with Power Output Stage  
 N327- Ignition Coil 9 with Power Output Stage  
 N328- Ignition Coil 10 with Power Output Stage  
 P - Spark Plug Connector  
 Q - Spark Plug  
 T121b- 121-Pin Connector

- (201) - Ground Connection 5 (in engine compartment wiring harness)
- (209) - Ground Connection 6 (in engine compartment wiring harness)
- (601) - Ground Connection (on cylinder head, left)
- (B351) - Plus Connection 2 (87a) (in main wiring harness)
- (D107) - Connection 5 (in engine compartment wiring harness)



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**Engine Control Module (ECM) 2, Ignition Coil 11 and 12 with Power Output Stage, Leak Detection Pump (LDP)**


J519 - Vehicle Electrical System Control Module

J624 - Engine Control Module (ECM) 2

N329 - Ignition Coil 11 with Power Output Stage

N330 - Ignition Coil 12 with Power Output Stage

P - Spark Plug Connector

Q - Spark Plug

T2ac - Double Connector, black, connector station 1/ in basic engine harness

T121b - 121-Pin Connector

V144 - Leak Detection Pump (LDP)

(201) - Ground Connection 5 (in engine compartment wiring harness)

(209) - Ground Connection 6 (in engine compartment wiring harness)

(B359) - Plus Connection 10 (87a) (in main wiring harness)

(D107) - Connection 5 (in engine compartment wiring harness)

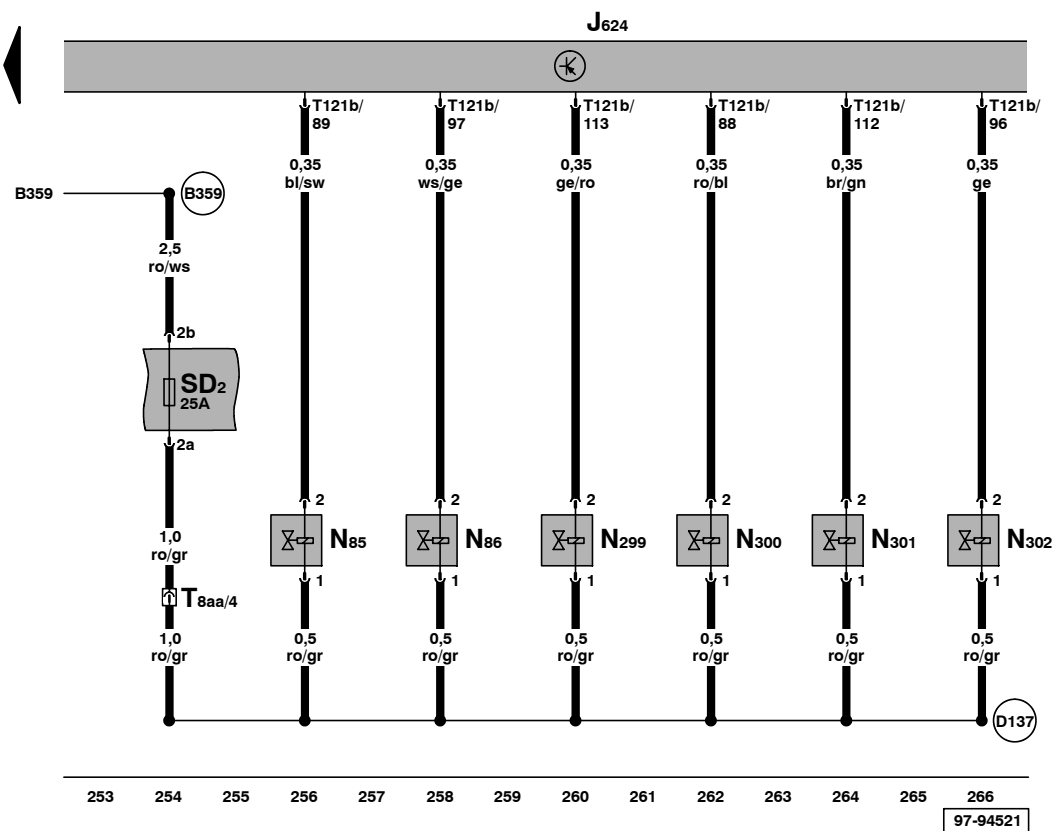
\*\* - Through October 2003

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### Engine Control Module (ECM) 2, Cylinder 7-12 Fuel Injectors, fuse SD2

- J519 - Vehicle Electrical System Control Module  
 J624 - Engine Control Module (ECM) 2  
 N85 - Cylinder 7 Fuel Injector  
 N86 - Cylinder 8 Fuel Injector  
 N299 - Cylinder 9 Fuel Injector  
 N300 - Cylinder 10 Fuel Injector  
 N301 - Cylinder 11 Fuel Injector  
 N302 - Cylinder 12 Fuel Injector  
 SD2 - Fuse 2 (on fuse panel D)  
 T8aa - 8-Pin Connector, connector station 3/ in basic engine harness  
 T121b- 121-Pin Connector

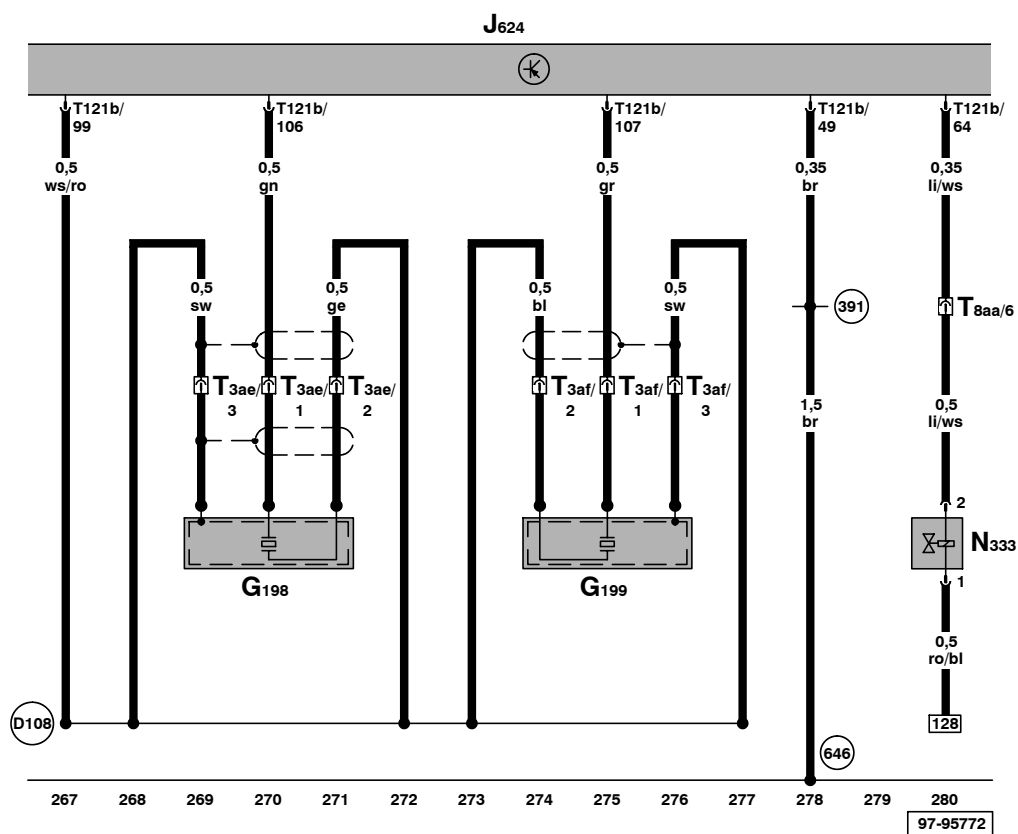
- B359 - Plus Connection 10 (87a) (in main wiring harness)  
 D137 - Connection 2 (injectors), (in engine compartment wiring harness)



**Engine Control Module (ECM) 2, Knock Sensor 3,  
Knock sensor 4, Evaporative Emission (EVAP) Can-  
ister Purge Regulator Valve 2**

- G198 - Knock Sensor 3  
 G199 - Knock sensor 4  
 J519 - Vehicle Electrical System Control Module  
 J624 - Engine Control Module (ECM) 2  
 N333 - Evaporative Emission (EVAP) Canister Purge  
 Regulator Valve 2  
 T3ae - 3-Pin Connector  
 T3af - 3-Pin Connector  
 T8aa - 8-Pin Connector, connector station 3/ in basic  
 engine harness  
 T121b- 121-Pin Connector

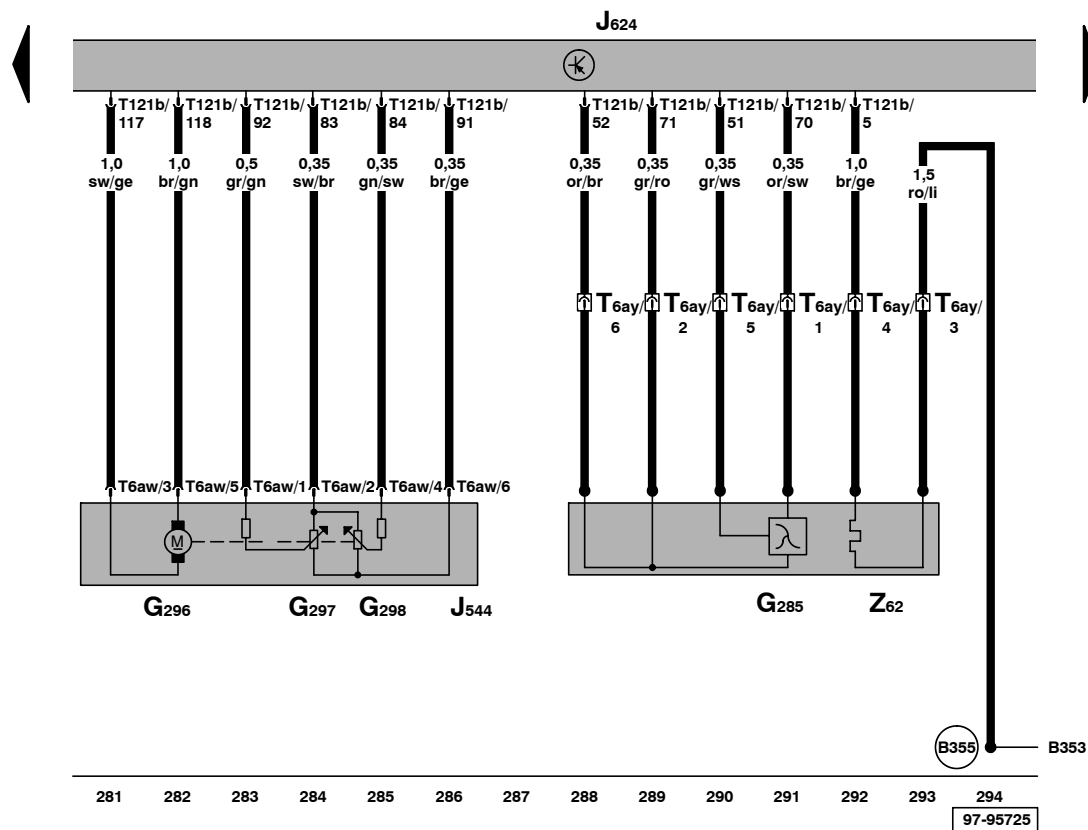
- (391) - Ground Connection 26 (in main wiring harness)  
 (646) - Ground Connection 2 (on firewall)  
 (D108) - Connection 6 (in engine compartment wiring  
 harness)



**Engine Control Module (ECM) 2, Throttle Valve Control Module 2, Heated Oxygen Sensor (HO2S) 3**

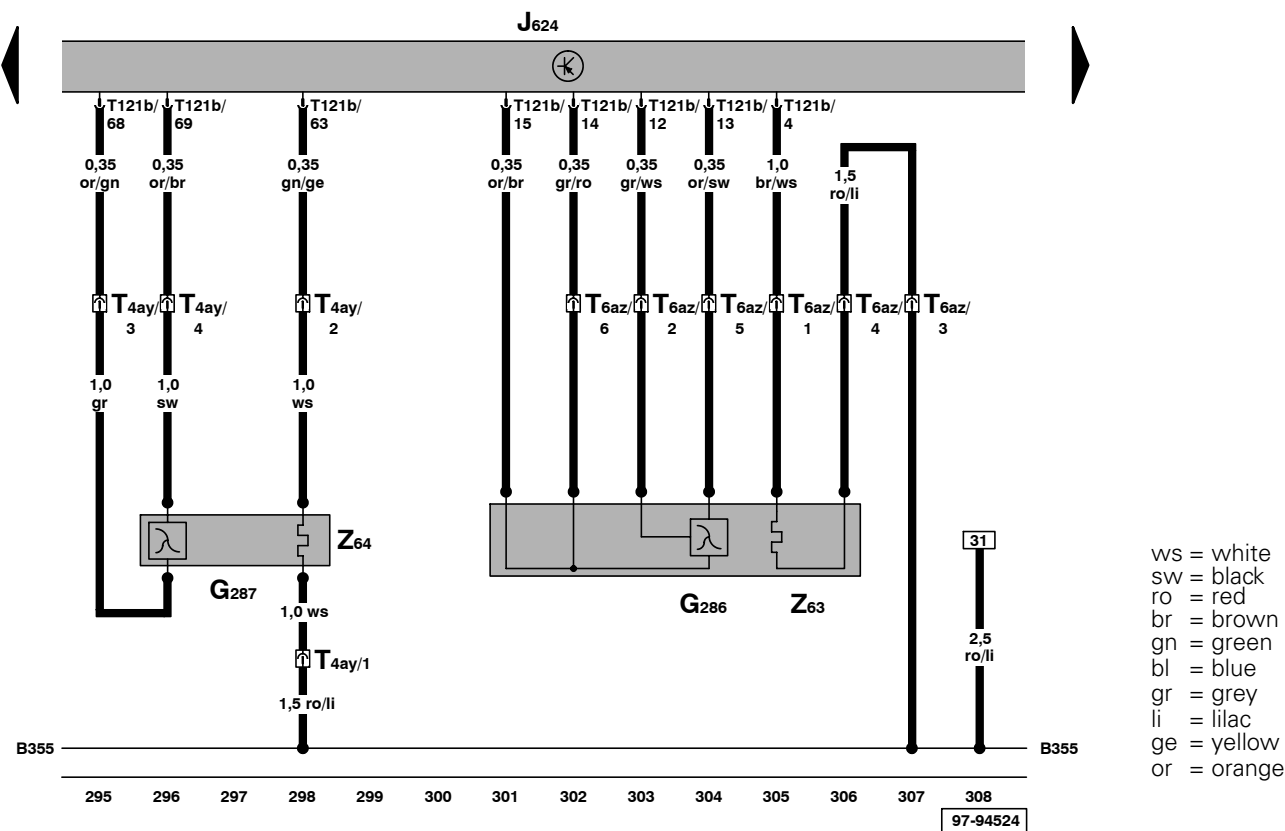
- G285 - Heated Oxygen Sensor (HO2S) 3  
 G296 - Throttle Drive 2  
 G297 - Throttle Drive Angle Sensor 1  
 G298 - Throttle Drive Angle Sensor 2  
 J519 - Vehicle Electrical System Control Module  
 J544 - Throttle Valve Control Module 2  
 J624 - Engine Control Module (ECM) 2  
 T6aw - 6-Pin Connector  
 T6ay - 6-Pin Connector, brown, connector station 8/ on front of plenum chamber  
 T121b - 121-Pin Connector  
 Z62 - Oxygen Sensor (O2S) Heater 3

(B355) - Plus Connection 6 (87a) (in main wiring harness)



**Engine Control Module (ECM) 2, Oxygen Sensor (O2S) 3 behind Three Way Catalytic Converter (TWC), Heated Oxygen Sensor (HO2S) 4**

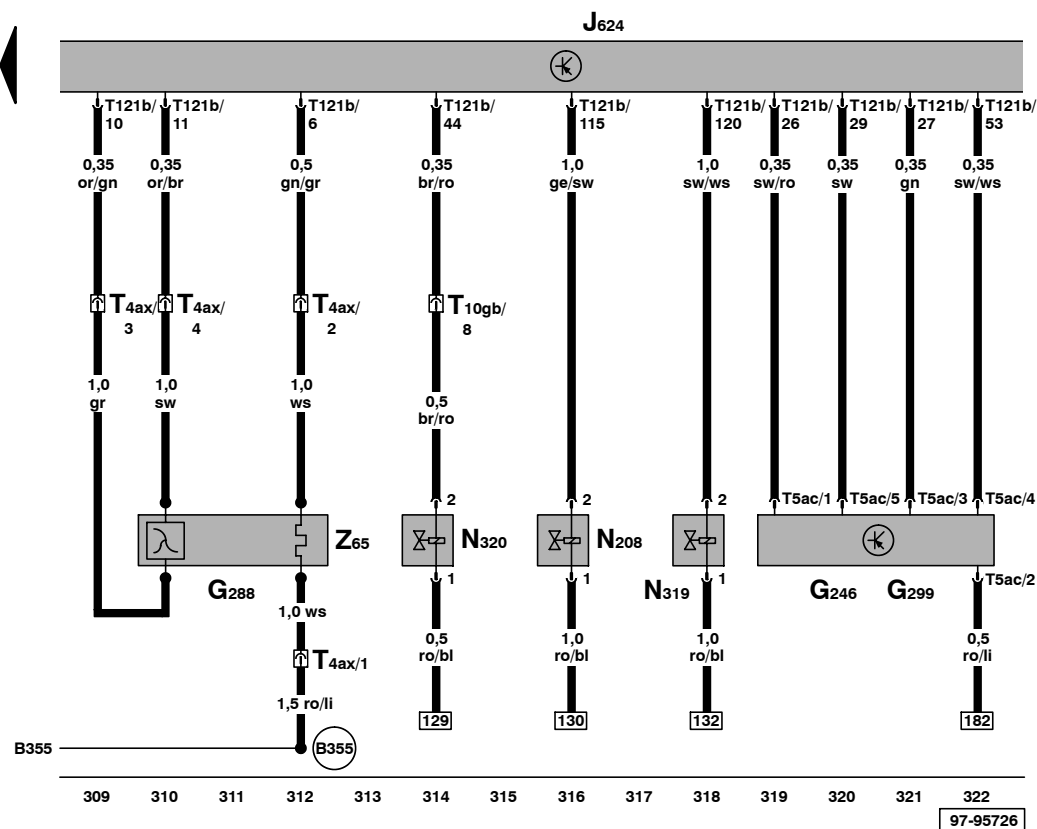
- G286 - Heated Oxygen Sensor (HO2S) 4  
 G287 - Oxygen Sensor (O2S) 3 behind Three Way Catalytic Converter (TWC)  
 J519 - Vehicle Electrical System Control Module  
 624 - Engine Control Module (ECM) 2  
 T4ay - 4-Pin Connector, brown, connector station 6/ on front of plenum chamber  
 T6az - 6-Pin Connector, grey, connector station 7/ on front of plenum chamber  
 T121b- 121-Pin Connector  
 Z63 - Oxygen Sensor (O2S) Heater 4  
 Z64 - Oxygen Sensor (O2S) Heater 3 (behind Three Way Catalytic Converter (TWC))



**Engine Control Module (ECM) 2, Mass Air Flow (MAF) Sensor 2, Intake Air Temperature (IAT) Sensor 2, Oxygen Sensor (O2S) 4 behind Three Way Catalytic Converter (TWC), N208, N319, N320**

- G246 - Mass Air Flow (MAF) Sensor 2
- G288 - Oxygen Sensor (O2S) 4 behind Three Way Catalytic Converter (TWC)
- G299 - Intake Air Temperature (IAT) Sensor 2
- J519 - Vehicle Electrical System Control Module
- J624 - Engine Control Module (ECM) 2
- N208 - Camshaft Adjustment Valve 2
- N319 - Camshaft Adjustment Valve 2 (exhaust)
- N320 - Secondary Air Injection (AIR) Solenoid Valve 2
- T4ax - 4-Pin Connector, grey, connector station 5/ on front of plenum chamber
- T5ac - 5-Pin Connector
- T10gb- 10-Pin Connector, connector station 2/ transmission
- T121b- 121-Pin Connector
- Z65 - Oxygen Sensor (O2S) Heater 4 (behind Three Way Catalytic Converter (TWC))

(B355) - Plus Connection 6 (87a) (in main wiring harness)



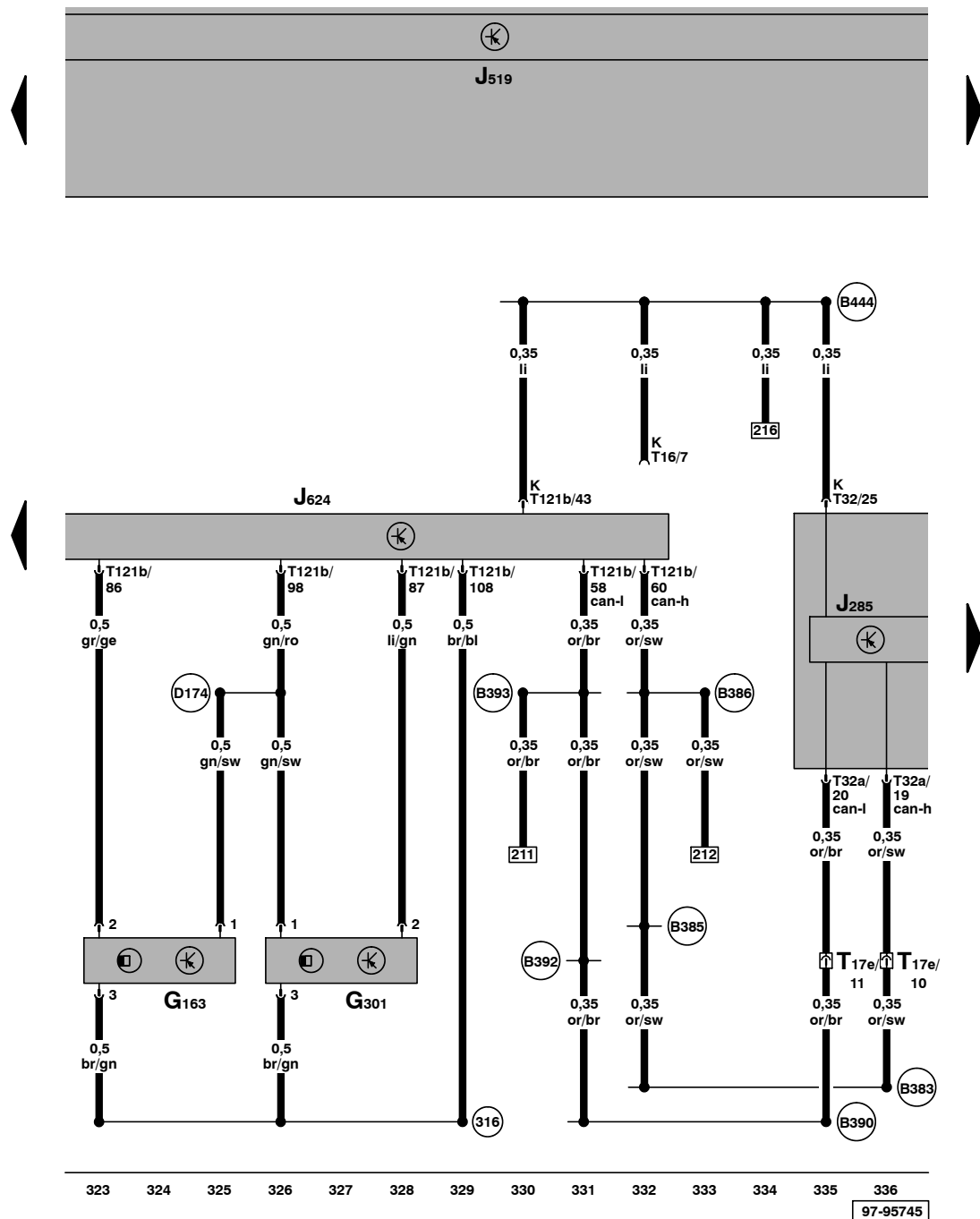


**Engine Control Module (ECM) 2, Instrument Cluster Control Module, Data Link Connector (DLC), Camshaft Position (CMP) Sensor 2, Camshaft Position (CMP) Sensor 4**

G163 - Camshaft Position (CMP) Sensor 2  
 G301 - Camshaft Position (CMP) Sensor 4  
 J285 - Instrument Cluster Control Module  
 J519 - Vehicle Electrical System Control Module  
 J624 - Engine Control Module (ECM) 2  
 T16 - 16-Pin Connector, Data Link Connector (DLC), below instrument panel, left  
 T17e - 17-Pin Connector, below instrument panel, left  
 T32 - 32-Pin Connector, blue  
 T32a - 32-Pin Connector, green  
 T121b- 121-Pin Connector

316 - Sensor Ground Connection 2 (in engine wiring harness)  
 B383 - Powertrain CAN-Bus High Connection 1 (in main wiring harness)  
 B385 - Powertrain CAN-Bus High Connection 3 (in main wiring harness)  
 B386 - Powertrain CAN-Bus High Connection 4 (in main wiring harness)  
 B390 - Powertrain CAN-Bus Low Connection 1 (in main wiring harness)  
 B392 - Powertrain CAN-Bus Low Connection 3 (in main wiring harness)  
 B393 - Powertrain CAN-Bus Low Connection 4 (in main wiring harness)  
 B444 - OBD Connection 1 (in main wiring harness)  
 D174 - 5V Connection 2 (in engine wiring harness)

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

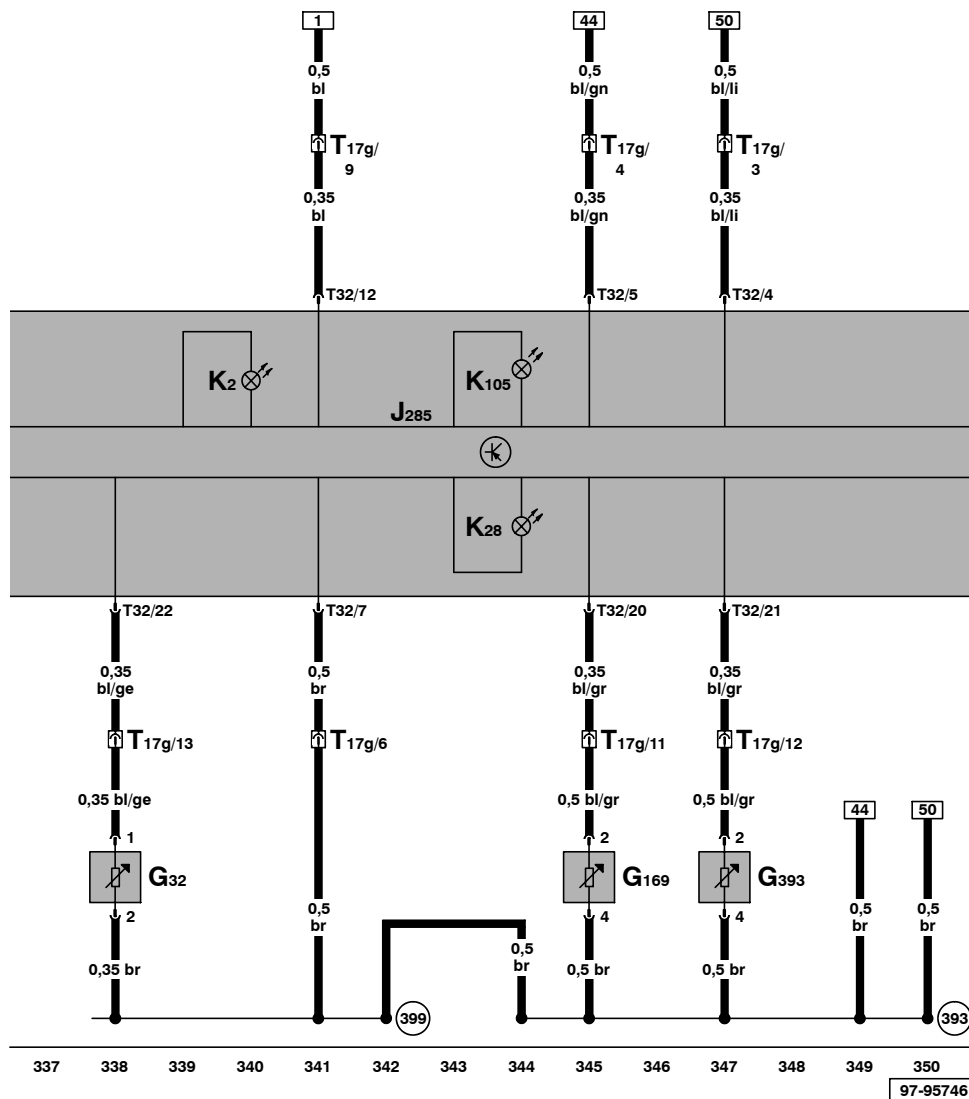


**Instrument Cluster Control Module, Engine Coolant Level (ECL) Sensor, Fuel Level Sensor 2 and 4, Generator (GEN) Warning Lamp, Low Fuel Level Warning Lamp**

- G32 - Engine Coolant Level (ECL) Sensor  
 G169 - Fuel Level Sensor 2  
 G393 - Fuel Level Sensor 4  
 J285 - Instrument Cluster Control Module  
 J519 - Vehicle Electrical System Control Module  
 K2 - Generator (GEN) Warning Lamp  
 K28 - Engine Coolant Level/Temperature (ECL/ECT) Warning Lamp  
 K105 - Low Fuel Level Warning Lamp  
 T17g - 17-Pin Connector, below instrument panel, left  
 T32 - 32-Pin Connector, blue

393 - Ground Connection 28 (in main wiring harness)

399 - Ground Connection 34 (in main wiring harness)



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

**Instrument Cluster Control Module, Oil Pressure Switch, Oil Level Thermal Sensor, Oil Pressure Warning Lamp, Oil Level Indicator Lamp**

- F1 - Oil Pressure Switch  
 G266 - Oil Level Thermal Sensor  
 J285 - Instrument Cluster Control Module  
 J519 - Vehicle Electrical System Control Module  
 K3 - Oil Pressure Warning Lamp  
 K38 - Oil Level Indicator Lamp  
 SB56 - Fuse 56 (on fuse panel B)  
 T14b - 14-Pin Connector, below instrument panel, left  
 T17e - 17-Pin Connector, below instrument panel, left  
 T17g - 17-Pin Connector, below instrument panel, left  
 T32 - 32-Pin Connector, blue  
 T32a - 32-Pin Connector, green

- (151) - Ground Connection 1 (in front wiring harness)  
 (650) - Ground Connection 6 (on firewall)

