2.7l - Injection Engine (Biturbo), 184 kW, 6-Cylinder, Code APB

from 2001 m.y.

Fuse Panel :

Fuse Colors :

30 A - Green
25 A - White
20 A - Yellow
15 A - Blue
10 A - Red
7.5A - Brown
5 A - Beige
3 A - Lilac

Fuse in fusebox from 23 onwards are numbered 223 onwards in Current Flow Diagram.

13-way Relay Carrier:

Relay Location :

13 - Locking Relay for Starter

Micro Central Electric :

Relay Location :

4 - Fuel Pump (FP) Relay

3-way Relay Carrier:

Relay Location :

2 - Secondary Air Injection (AIR) Relay

Fuse Location :

7 - Fuse for Secondary Air Pump

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

A - Battery
B - Starter
C - Generator
C1 - Voltage Regulator
D - Ignition/Starter Switch
J433 - Locking relay for starter (anti-theft immobilizer)
T2ab - Wire Connector, double, grey, in engine compartment, right
T10 - Wire Connector, 10-Point, brown, connector station, electronics box in plenum chamber
T10m- Wire Connector, 10-Point, black, connector station, electronics box in plenum chamber
T10aa- Wire Connector, 10-Point, orange, connector station, left, A-pillar
V94 - Central Locking/Alarm System/Interior Light Delay Control Module

11 - Ground connection, in battery box
A17 - Wire connection (61), in instrument panel wiring harness
A86 - Connection (50a) in instrument panel wiring harness

ws = white
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J17 - Fuel Pump (FP) Relay
J220 - Motronic Engine Control Module (ECM)
N30 - Cylinder 1 Fuel Injector
N31 - Cylinder 2 Fuel Injector
N32 - Cylinder 3 Fuel Injector
N33 - Cylinder 4 Fuel Injector
N75 - Wastegate Bypass Regulator Valve
N80 - Evaporative Emission (EVAP) Canister Purge Regulator Valve
N83 - Cylinder 5 Fuel Injector
N84 - Cylinder 6 Fuel Injector
S228 - Fuse in fuse holder
S229 - Fuse in fuse holder
S234 - Fuse in fuse holder

T6aa - Wire Connector, 6-Point, darkbrown, connector station, right, A-pillar
T10m- Wire Connector, 10-Point, black, connector station, electronics box in plenum chamber
T10ar- Wire Connector, 10-Point, orange, connector station, electronics box in plenum chamber
A151 - Connection 4 (87) (in instrument panel wiring harness)
A152 - Connection 5 (87) (in instrument panel wiring harness)
D22 - Connector (over fuse 234), in wiring harness front, right
D23 - Connector (over fuse 229), in wiring harness front, right

ws = white
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- G70 - Mass Air Flow (MAF) Sensor
- G235 - Sensor -1- for exhaust temperature
- G236 - Sensor -2- for exhaust temperature
- J220 - Motronic Engine Control Module (ECM)
- N8 - Central Idle, Idle Air Control (IAC) Cut-Off Valve
- N112 - Secondary Air Injection (AIR) Solenoid Valve
- N205 - Valve -1- for camshaft adjustment
- N208 - Valve -2- for camshaft adjustment
- T10 - Wire Connector, 10-Point, brown, connector station, electronics box in plenum chamber
- T10m - Wire Connector, 10-Point, black, connector station, electronics box in plenum chamber
- T10ar - Wire Connector, 10-Point, orange, connector station, electronics box in plenum chamber

- 83 - Ground connection -1-, in right front wiring harness
- 200 - Ground connection (shielding), in engine compartment wiring harness
- A27 - Wire Connection (vehicle speed signal), in instrument panel wiring harness
- A45 - Wire connection (RPM-signal), in instrument panel wiring harness
- D23 - Connector (over fuse 229), in wiring harness front, right
- D101 - Wire connection -1-, in engine compartment wiring harness

* - Automatic transmission Only

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- 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)
- J316 - Secondary Air Injection (AIR) Relay
- S130 - Fuse for secondary air pump
- T3aa - Wire Connector, 3-Point, white, connector station, electronics box in plenum chamber
- T4w - Wire Connector, 4-Point, green, in engine compartment, right
- T4x - Wire Connector, 4-Point, brown, in engine compartment, right
- T6aa - Wire Connector, 6-Point, darkbrown, connector station, right, A-pillar
- T10ar - Wire Connector, 10-Point, orange, connector station, electronics box in plenum chamber
- V101 - Secondary Air Injection (AIR) Pump Motor
- V144 - Leak detection pump (LDP)
- Z29 - Oxygen Sensor (O2S) Heater 1
- Z30 - Oxygen Sensor (O2S) Heater 2
- 12 - Ground connection, in engine compartment, left
- 200 - Ground connection (shielding), in engine compartment wiring harness
- A40 - Plus connection -1- (30), in instrument cluster wiring harness
- A79 - Connector (engine overheat warning light) instrument wiring harness
- * - Automatic transmission Only

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or = orange

- E87 - A/C Control Head
- G39 - Heated Oxygen Sensor (HO2S)
- G108 - Heated Oxygen Sensor (HO2S) 2
- J220 - Motronic Engine Control Module (ECM)
- J234 - Airbag Control Module
- J338 - Throttle Valve Control Module
- T3au - Wire Connector, 3-Point, red, connector station, electronics box in plenum chamber
- T4y - Wire Connector, 4-Point, black, in engine compartment,right
- T4z - Wire Connector, 4-Point, black, in engine compartment,left
- T15m- Wire Connector, 15-Point, red, connector station, electronics box in plenum chamber
- Z19 - Oxygen Sensor (O2S) Heater
- Z28 - Oxygen Sensor (O2S) 2 Heater

- 83 - Ground connection -1-, in right front wiring harness
- 200 - Ground connection (shielding), in engine compartment wiring harness
- A100 - Connector -2- (87), in instrument panel wiring harness
- A125 - Connection (crash signal) in instrument panel wiring harness

ws = white
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E45 - Cruise Control Switch
G2 - Engine Coolant Temperature (ECT) 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)
T2af - Wire Connector, double, black, in engine compartment, right
T3bb - Wire Connector, 3-Point, brown, in engine compartment, left
T3bc - Wire Connector, 3-Point, brown, in engine compartment, right
T6y - Wire Connector, 6-Point, black, near steering column
T10 - Wire Connector, 10-Point, brown, connector station, electronics box in plenum chamber
T10m - Wire Connector, 10-Point, black, connector station, electronics box in plenum chamber
T15 - Wire Connector, 15-Point, white, connector station, electronics box in plenum chamber
T16 - 16-Pin Connector, Data Link Connector (DLC) behind instrument panel, left
104 - Ground connection, in right front wiring harness (sensor Grounds)
131 - Ground connection -2-, in engine compartment wiring harness
199 - Ground connection -3-, in instrument panel wiring harness
220 - Ground connection (sensor ground), in engine compartment wiring harness
A76 - Connector (K-diagnosis wire) in instrument panel wiring harness

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- G28 - Engine Speed (RPM) Sensor
- G31 - Charge Air Pressure Sensor
- G40 - Camshaft Position (CMP) Sensor
- G79 - Throttle Position (TP) Sensor
- G163 - Camshaft Position (CMP) Sensor 2
- G185 - Sender -2- for accelerator pedal position
- J220 - Motronic Engine Control Module (ECM)
- T3m - Wire Connector, 3-Point, grey, in engine compartment, left
- T15 - Wire Connector, 15-Point, white, connector station, electronics box in plenum chamber
- T15m - Wire Connector, 15-Point, red, connector station, electronics box in plenum chamber

- 220 - Ground connection (sensor ground), in engine compartment wiring harness
- A121 - Connection (high bus) in instrument panel wiring harness
- A122 - Connection (low bus) in instrument panel wiring harness
- D141 - Connector (5V), in wiring harness, engine pre-wiring

- * - up to August 2000
- ** - from September 2000
- • - CAN-Bus

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

- F - Brake Light Switch
- F36 - Clutch Vacuum Vent Valve Switch
- J220 - Motronic Engine Control Module (ECM)
- M... - Brake Light
- N - Ignition Coil
- N122 - Power Output Stage
- N128 - Ignition Coil 2
- N158 - Ignition Coil 3
- P - Spark Plug Connectors
- Q - Spark Plugs
- T3w - Wire Connector, 3-Point, black, on Power Output Stage
- T4f - Wire Connector, 4-Point, black, on Power Output Stage
- T15 - Wire Connector, 15-Point, white, connector station, electronics box in plenum chamber

- 18 - Ground connection, on engine block
- 83 - Ground connection -1-, in right front wiring harness
- A18 - wire connection (54), in instrument panel wiring harness
- A104 - Plus connector -2- (15), in instrument panel wiring harness
- A106 - Connector -2- (86s), in instrument panel wiring harness
- D14 - Wire connection (ignition coil - control module), in right front wiring harness

* - Manual Transmission Only

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D - Ignition/Starter Switch
F4 - Back-Up Light Switch
J220 - Motronic Engine Control Module (ECM)
N163 - Ignition Coil 4
N164 - Ignition Coil 5
N189 - Ignition coil 6
N192 - Poweroutput stage 2
P - Spark Plug Connectors
Q - Spark Plugs
S5 - Fuse
S7 - Fuse
S13 - Fuse
S231 - Fuse in fuse holder
S232 - Fuse in fuse holder
T3x - Wire Connector, 3-Point, brown, on Power Output Stage
T4g - Wire Connector, 4-Point, brown, on Power Output Stage
T10ar - Wire Connector, 10-Point, orange, connector station, electronics box in plenum chamber
18 - Ground connection, on engine block
83 - Ground connection -1-, in right front wiring harness
A2 - Plus connection (15), in instrument panel wiring harness
A20 - Wire connection (15a), in instrument panel wiring harness
A32 - Plus connection (30), in instrument panel wiring harness
D14 - Wire connection (ignition coil - control module), in right front wiring harness

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

- F1 - Oil Pressure Switch
- F66 - Engine Coolant Level (ECL) Warning Switch
- G - Sender for fuel gauge
- G6 - Fuel Pump (FP)
- G22 - Speedometer Vehicle Speed Sensor (VSS)
- G266 - Oil Level Thermal Sensor
- J218 - Instrument Cluster Combination Processor
- K2 - Generator (GEN) Warning Light
- K132 - Electronic Power Control (EPC) Warning Lamp
- K149 - Indicator light for engine electronics
- T6e - Wire Connector, 6-Point, blue, connector station, left, A-pillar
- T10 - Wire Connector, 10-Point, brown, connector station, electronics box in plenum chamber
- T10a - Wire Connector, 10-Point, brown, connector station, left, A-pillar
- T10m - Wire Connector, 10-Point, black, connector station, electronics box in plenum chamber
- T10ao - Wire Connector, 10-Point, white, connector station, left, A-pillar
- T32 - Wire Connector, 32 Point, blue, on instrument cluster
- T32a - Wire Connector, 32 Point, green, on instrument cluster
- (83) - Ground connection -1-, in right front wiring harness
- (86) - Ground connection -1-, in rear wiring harness
- (199) - Ground connection -3-, in instrument panel wiring harness
- (A74) - Connector (15a - fuse 5) in instrument panel wiring harness