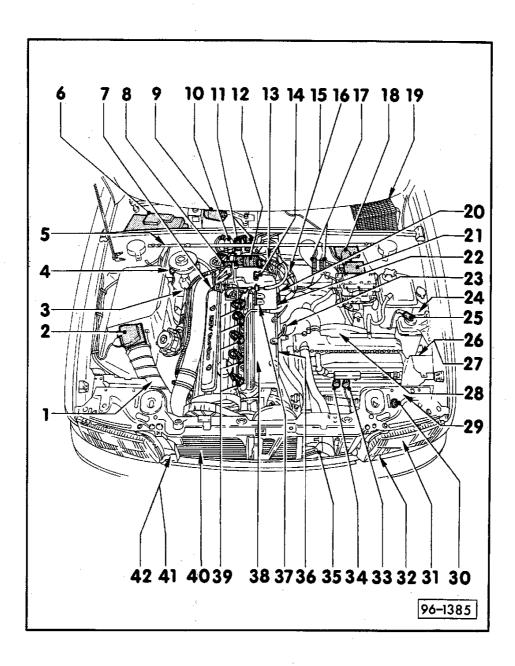
Engine compartment, 5-cylinder, 20-valve turbo engine, Motronic

- Engine code letters: 3 B
- 162 kW/220 bhp



No.	Designation in current flow diagram
1 - Solenoid valve for boost pressure control - see fig. 1, page 3/31	N 75
2 - Air mass meter	G 70
3 - Starter	В
4 - Brake fluid level warning contact - Hydraulic brake servo unit warning switch - see fig. 2, page 3/3	F 34 1 F 21
 5 - Connector for Lambda probe (G 39) Lambda probe heating (Z 19) - see fig. 3, page 3/31 	• •
6 - Relay plate with fuse holder	-
 7 - Sender for coolant temperature (for Motronic ignition and injection system) - see fig. 4, page 3/31 	G 62
8 - Throttle valve potentiometer with idling switch (located in one housing) - see fig. 5, page 3/32	G 69/F 60
9 - Windscreen wiper motor	v
10 - Connectors for • Knock sensor I, front (G 61 - brown connector) • Knock sensor II, rear	-
 (G 66 - green connector) Firing point sender (G 4 - reference point sender, black connector) Engine speed sender 	-
(G 28 - grey connector) - see fig. 6, page 3/32	
11 - Ignition coil and power end stage (ignition transformer) - see fig. 7, page 3/32	N 152
12 - Idle speed stabilization valve	N 71
13 - Activated charcoal filter system solenoid valve 1 - see fig. 8, page 3/32	N 80
14 - Intake air temperature sender	G 42
15 - Switch for reversing lights - see fig. 9, page 3/33	F 4
16 - Speedometer sender - see fig. 10, page 3/33	G 22
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No.	Designation in current flow diagram
17 - Connectors, engine wiring loom, right - see fig. 11, page 3/33	-
18 - Vacuum pump for cruise control	V 18
 19 - Ambient temperature switch (only with manual air conditioner) - Temperature sender - fresh air intake duct (only with digital air conditioner) - see fig. 12, page 3/33 	F 38 G 89
20 - Ignition distributor/Hall sender	O/G 40
21 - Hydraulic unit for anti-lock brake system	N 55
22 - Firing point sender Engine speed sender - see fig. 13, page 3/34	G 4 G 28
23 - Electronic thermoswitch- Thermoswitch for coolant pump/turbocharger- see fig. 14, page 3/34	F 76 F 98
24 - Coolant shortage indicator switch	F 66
25 - Hydraulic fluid warning contact	F 75
 26 - Windscreen washer pump - Windscreen washer pump with warning contact for washer fluid (only with auto-check system) - see fig. 15, page 3/34 	V 5 V 5/F 77
27 - Pump for headlight washer system - see fig. 15, page 3/34	V 11
28 - Radiator fan	V 7
29 - Thermoswitch for radiator fan - see fig. 16, page 3/34	F 18/F 54
30 - Contact switch for anti-theft alarm system/repeller system	F 120
31 - Horn/dual horn - see fig. 17, page 3/35	H 1
 32 - Ambient temperature sensor (only with ambient temperature indicator or digital air conditioner) - see fig. 18, page 3/35 	G 17
33 - High pressure switch for magnetic clutch (only with air conditioner)	F 118

No.	Designation in current flow diagram
34 - High pressure switch for air conditioner	F 23
35 - Alternator with voltage regulator	C/C 1
 36 - Oil pressure switch (1.8 bar), white Oil pressure switch (0.3 bar) with oil pressure sender see fig. 19, page 3/35 	F 1 F 22/ G 10
37 - Knock sensor II - see fig. 20, page 3/35	G 66
38 - Knock sensor I - see fig. 20, page 3/35	G 61
39 - Injectors	N 30/N 31/N 32/N 33/N 83
40 - Oil temperature sender (only with additional instruments) - see fig. 21, page 3/36	G 8
 41 - Magnetic clutch for compressor/protective diode for magnetic clutch (only with air conditioner) - see fig. 22, page 3/36 	N 25/J 201
42 - Speed sender - air conditioner compressor (only with air conditioner) - see fig. 23, page 3/36	G 111

Note:

With this engine version the battery -A- is located under the rear seat bench - also see "Fitting locations - right-hand drive vehicles", page 5/5.

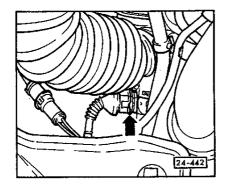


Fig. 1 - Solenoid valve for boost pressure control N 75

• on air hose in engine compartment, front left

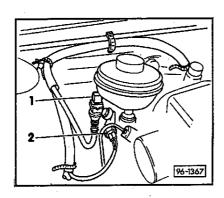


Fig. 2 - Brake fluid level warning contact F 34

- Hydraulic brake servo unit warning switch F 21
- left, below brake fluid reservoir
- 1 F 34
- 2-F21

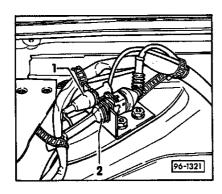


Fig. 3 - Connector for Lambda probe G 39 - Connector for Lambda probe heating Z 19

- in engine compartment, rear left, next to suspension strut turret
- 1 Connector G 39 (single)
- 2 Connector Z 19 (2-pin)

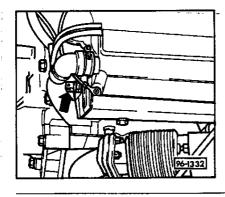


Fig. 4 - Sender for coolant temperature G 62 (for Motronic ignition and injection system)

• on rear side of cylinder head

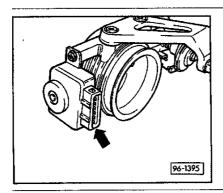


Fig. 5 - Throttle valve potentiometer G 69 with idling switch F 60

• on rear of throttle valve assembly

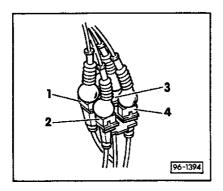


Fig. 6 - Connectors for	
1 - Knock sensor I, front	G 61
(brown connector)	,
2 - Knock sensor II, rear	G 66
(green connector)	
3 - Firing point sender	G 4
(reference point sender, black	
connector)	
4 - Engine speed sender	G 28
(grey connector)	

• on rear partition of engine compartment

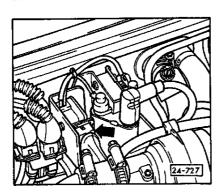


Fig. 7 - Ignition coil and power end stage (ignition transformer) N 152.

- on rear partition of engine compartment
- arrow points to power end stage

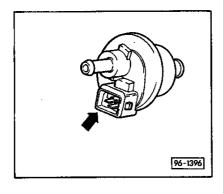


Fig. 8 - Activated charcoal filter system solenoid valve 1 N 80

• between intake manifold and rear partition of engine compartment

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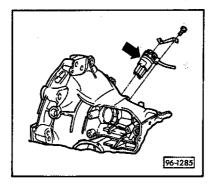


Fig. 9 - Switch for reversing lights F 4

• on top part of gearbox

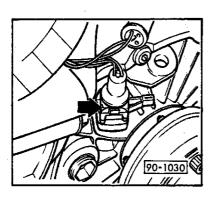


Fig. 10 - Speedometer sender G 22

- inserted in gearbox housing, left, next to left drive shaft flange
- for removal push down latch and turn to the right

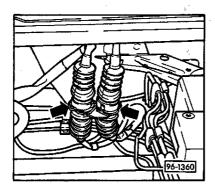


Fig. 11 - Connectors; engine wiring loom, right

• on rear partition of engine compartment, left

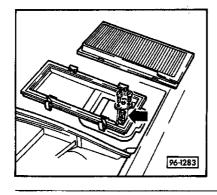


Fig. 12 - Ambient temperature switch F 38 (only with manual air conditioner)

- Temperature sensor - fresh air intake duct
G 89 (only with digital air conditioner)

• in plenum chamber, left

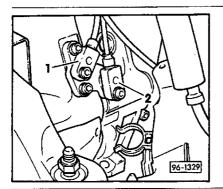


Fig. 13-Firing point sender G 4 - Engine speed sender G 28

- near engine/gearbox joint, on cylinder block, lower left
- 1-G4
- 2 G 28

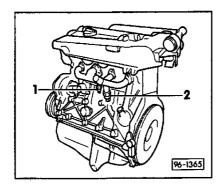


Fig. 14 - Electronic thermoswitch F 76 - Thermoswitch for coolant pump F 98

- in coolant pipe on left side of engine, below intake manifold
- 1-F98
- 2-F76

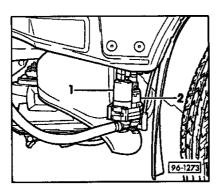


Fig. 15 - Windscreen washer pump V 5 - Windscreen washer pump with warning contact for washer fluid V 5/F 77 (only

- contact for washer fluid V 5/F 77 (only with auto-check system)
- Pump for headlight washer system V 11
- under left wheel arch liner, or under left section of bumper
- 1 V 11
- 2 V 5 or V 5/F 77

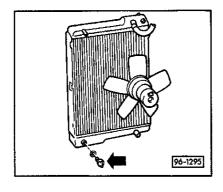


Fig. 16 - Thermoswitch for radiator fan F 18/F 54

• screwed into radiator from rear side, lower left

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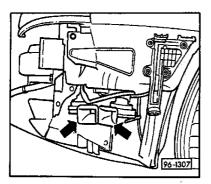


Fig. 17 - Horn/dual horn

• behind bumper, left, or above noise insulation for engine compartment

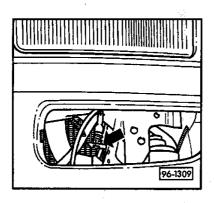


Fig. 18 - Ambient temperature sensor G 17 (only with ambient temperature indicator or digital air conditioner)

• behind air duct grille in bumper, left

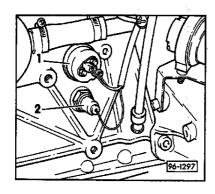


Fig. 19 - Oil pressure switch (0.3 bar) F 22 with oil pressure sender G 10 - Oil pressure switch (1.8 bar), white, F 1

- on oil filter holder
- 1 F 22/G 10
- 2-F1

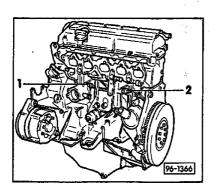


Fig. 20 - Knock sensor I - G 61 - Knock sensor II - G 66

- on left side of cylinder block below intake manifold
- 1-G61
- 2 G 66

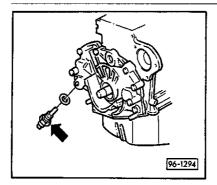


Fig. 21 - Oil temperature sender G 8

 Sender G 8 is screwed in instead of the screw plug for the oil pressure relief valve (on end face of engine, lower right)

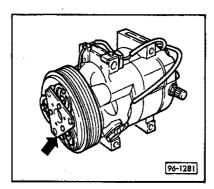


Fig. 22 - Magnetic clutch for compressor/ protective diode for magnetic clutch (only with air conditioner) N 25/J 201

• on air conditioner compressor, on engine, lower right

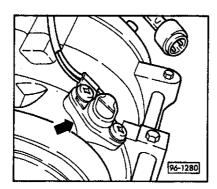


Fig. 23 - Speed sender - air conditioner compressor G 111 (only with air conditioner)

• on engine, lower right