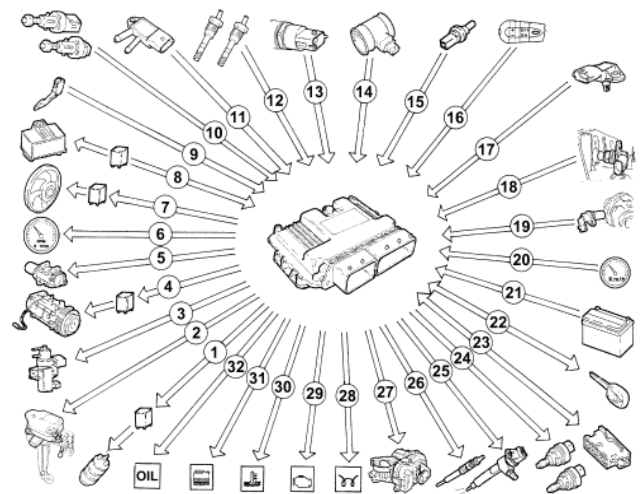
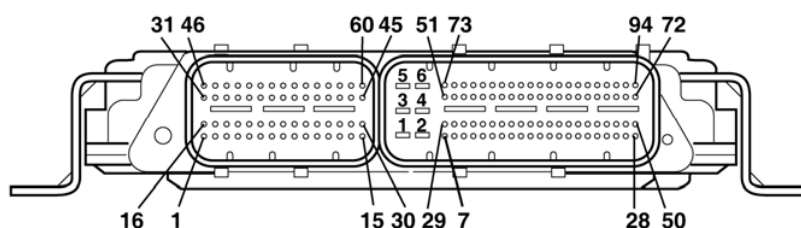


1. Tank
2. Fuel pump
3. Fuel filter
4. Damper
5. Radial jet
6. M - PROP regulator
7. Pressure regulator
8. Rail
9. Rail pressure sensor
10. Injectors
11. Air cleaner
12. Air mass meter
13. Compressor
14. Intercooler
15. Throttle
16. EGR
17. EGR cooler
18. Gas recirculation input
19. Supercharger sensor
20. Engine speed sensor
21. Timing sensor
22. Coolant temperature sensor
23. Oil pressure sensor
24. Oil level sensor
25. Glow plugs
26. Glow plug ECU
27. Variable geometry turbine
28. Turbo actuator
29. Turbo control solenoid valve
30. Pre-catalyser
31. Pre-cat output temperature sensor
32. Catalyser
33. DPF particulate trap
34. DPF input temperature sensor
35. DPF differential pressure sensor
36. Pedal board
37. Engine ECU
38. Swirl actuator



- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Auxiliary fuel pump 2. Swirl mechanism 3. VGT solenoid valve 4. A/C compressor 5. EGR solenoid valve 6. Tachometer 7. Cooling fan 8. Glow plug pre-heater ECU 9. Accelerator pedal with built-in potentiometer 10. Brake-clutch pedal switch 11. Differential pressure sensor 12. Thermocouples 13. Fuel pressure sensor 14. Air mass meter 15. Coolant temperature sensor 16. Cruise control | <ol style="list-style-type: none"> 17. Air pressure and temperature signal 18. Timing sensor 19. Engine speed sensor 20. Speedometer 21. Battery 22. Alfa Code 23. Diagnostic socket 24. Pressure regulator 25. Injectors 26. Glow plugs 27. Throttle solenoid valve 28. Glow plug pre-heater warning light 29. Injection warning light 30. Coolant overheat warning light 31. Water in fuel warning light 32. Oil warning light |
|---|--|

Bosch EDC16C39 ECU pinout



Connector K (engine utilities wire, vehicle side)

PIN	FUNCTION
1	Injection primary utility power from B001 F17
2	Ground
3	Not connected
4	Ground
5	Injection primary utility power from B001 F22
6	Ground
7	Variable geometry turbine solenoid valve signal
8	Accelerator pedal potentiometer 2 -
9	Accelerator pedal potentiometer 1
10	Fuel temperature sensor -
11	Fuel temperature sensor signal
12	A/C linear pressure sensor -
13	A/C linear pressure sensor signal
14	Not connected
15	Not connected
16	Not connected
17	Brake pedal contact signal + (NO)
18	Not connected
19	Not connected
20	Not connected
21	Not connected
22	A/C linear pressure sensor -
23	Not connected
24	Not connected
25	K line
26	Not connected
27	Not connected
28	15/54 power from B001 F16



29	Compressor relay control negative signal (T5)
30	Accelerator pedal potentiometer 1 -
31	Accelerator pedal potentiometer 2
32	Post particulate trap (DPF) temperature sensor signal
33	Post particulate trap (DPF) temperature sensor -
34	Pre particulate trap (DPF) temperature sensor signal
35	Pre particulate trap (DPF) temperature sensor -
36	Differential pressure sensor signal (DPF)
37	Differential pressure sensor (DPF) -
38	Resume Cruise Control
39	Not connected
40	Not connected
41	Not connected
42	Not connected
43	Not connected
44	Differential pressure sensor (DPF) +
45	Accelerator pedal potentiometer 1 +
46	Accelerator pedal potentiometer 2 +
47	W line (immobilizer)
48	Not connected
49	Not connected
50	Not connected
51	Not connected
52	Glow plug pre-heat ECU diagnostics
53	Not connected
54	A/C request from HVAC node
55	Not connected
56	SET + Cruise Control
57	Not connected
58	Not connected
59	Not connected
60	Not connected
61	C-CAN L
62	C-CAN H
63	Not connected
64	Not connected
65	Not connected
66	Not connected
67	Not connected
68	Not connected
69	Engine cooling fan second level
70	Not connected
71	EOBD failure warning light
72	Main relay negative signal (T19)
73	Not connected



74	Water in fuel filter sensor signal
75	Not connected
76	Not connected
77	ON Cruise Control
78	SET + Cruise Control
79 (*)	Clutch pedal contact signal -
80	Brake pedal contact signal + (NC)
81	Not connected
82	Not connected
83	C-CAN L
84	C-CAN H
85	Not connected
86	Not connected
87	Not connected
88	Not connected
89	Not connected
90	Engine cooling fan first level
91	Fuel pump relay negative signal (T9)
92	Not connected
93	Glow plug pre-heater on
94	Not connected

(*): Not fitted in versions with automatic transmission

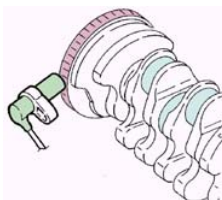
Connector A (engine pre-wired harness)

PIN	FUNCTION
1	Cylinder 3 injector +
2	Cylinder 2 injector +
3	Not connected
4	Fuel pressure regulator on rail +
5	Not connected
6	Swirl solenoid valve ground
7	Not connected
8	Fuel pressure sensor -
9	Not connected
10	Not connected
11	Timing sensor +
12	Engine speed sensor -
13	Air pressure/temperature sensor +
14	Not connected
15	Not connected
16	Cylinder 1 injector +
17	Cylinder 4 injector +
18	Not connected/ Cylinder 5 injector + (for 2.4)
19	Fuel pressure regulator +
20	Timing sensor -
21	Engine oil level
22	Not connected
23	Air pressure/temperature sensor -
24	Not connected
25	Not connected
26	Not connected
27	Engine speed sensor +
28	Fuel pressure sensor +
29	Not connected
30	Not connected
31	Cylinder 2 injector -
32	Not connected



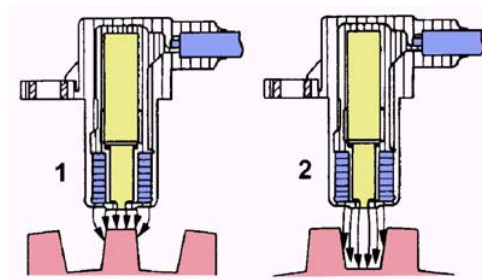
33	Cylinder 4 injector -
34	Fuel pressure regulator on rail +
35	Diagnostic feedback (swirl)
36	Not connected
37	Air temperature sensor (air mass meter)
38	Not connected
39	Driven throttle ground
40	Pressure signal from air pressure/temperature sensor
41	Engine coolant temperature sensor -
42	Output signal + (air mass meter)
43	Fuel pressure sensor signal
44	Ground (air mass meter)
45	Swirl solenoid valve command
46	Cylinder 4 injector -
47	Cylinder 1 injector -
48	Not connected/ Cylinder 5 injector - (for 2.4)
49	Fuel pressure regulator -
50	Timing sensor signal
51	Not connected
52	Throttle body feedback
53	Temperature signal from air pressure/temperature sensor
54	Not connected
55	Not connected
56	Low engine oil pressure
57	Not connected
58	Engine coolant temperature sensor signal
59	Throttle solenoid valve command
60	EGR solenoid valve

Engine speed sensor



FUNCTION: The sensor provides an electrical signal to the engine ECU used to compute the speed and angular position of the engine.

LOCATION: The sensor is fitted on the crankcase facing the phonic wheel on the crankshaft.



1. maximum magnetic flow
2. minimum magnetic flow

