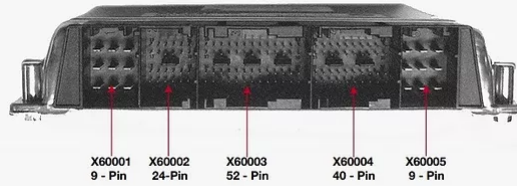


Pinout N42 - Bosch M9.2



Plug connector overview

Number	X-pin, colour	Description
X60001	40-pin, black	Component connector DME control unit
X60002	9-pin, black	Component connector DME control unit
X60003	24-pin, black	Component connector DME control unit
X60004	52-pin, black	Component connector DME control unit
X60005	9-pin, black	Component connector DME control unit

E-Input A-Output E/A-Input/Output M-Ground

Pin assignments at plug connector X60001

Pin	Type	Description /Signal type	Connection /Measuring notes
1	--	Not used	
2	--	Not used	
3	E/A	Diagnosis signal TXD	Transmission control unit
4	M	Ground	Ground connector
5	--	Not used	
6	M	Ground	Ground connector
7	E	Terminal 30	Fuse F102
8	E	Voltage supply	Fuse carrier, engine electronics
9	--	Not used	

Pin assignments at plug connector X60002

Pin	Type	Description /Signal type	Connection /Measuring notes
1	E	Signal Oxygen sensor heater in front of catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
2	E	Signal Oxygen sensor heater in front of catalytic converter	Heated oxygen sensor 2 in front of catalytic converter
3	E/A	Signal Oxygen sensor heater in front of catalytic converter	Transmission control unit
4	E/A	Signal CAN bus low	Transmission control unit
5	--	Signal CAN bus high	
6	E	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 1 behind catalytic converter
7	M	Not used	Heated oxygen sensor 1 in front of catalytic converter
8	M	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 2 behind catalytic converter
9	M	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 2 in front of catalytic converter
10	M	Ground Oxygen sensor before catalytic converter	Heated oxygen sensor 1 behind catalytic converter
11	--	Ground Oxygen sensor after catalytic converter	
12	E	Ground Oxygen sensor before catalytic converter	Heated oxygen sensor 2 behind catalytic converter
13	E	Ground Oxygen sensor after catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
14	E	Not used	Heated oxygen sensor 2 behind catalytic converter
15	E	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 2 in front of catalytic converter
16	E	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 1 behind catalytic converter
17	--	Signal Oxygen sensor before catalytic converter	
18	--	Signal Oxygen sensor after catalytic converter	
19	M	Signal Oxygen sensor before catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
20	E	Signal Oxygen sensor after catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
21	E	Not used	Heated oxygen sensor 2 in front of catalytic converter
22	E	Not used	Heated oxygen sensor 2 in front of catalytic converter
23	E	Ground Oxygen sensor before catalytic converter	DME relay
24	--	Signal Oxygen sensor before catalytic converter	
		Ground Oxygen sensor before catalytic converter	
		Signal Oxygen sensor before catalytic converter	
		Signal Activation, main relay	
		Not used	

Pin assignments at plug connector X60003

Pin	Type	Description /Signal type	Connection /Measuring notes
1	E	Signal Air mass sensor	Hot-film air mass meter
2	E	Signal Intake pipe pressure sensor	Intake pipe pressure sensor
3	E	Signal Intake air temperature	Hot-film air mass meter
4	A	Reference voltage	Hot-film air mass meter Intake pipe pressure sensor
5	E	Signal Oil level	Oil level sensor
6	E	Activation Fuel injector 4	Fuel injector 4
7	E	Activation Fuel injector 3	Fuel injector 3
8	--	Not used	
9	A	Activation VANOS outlet valve	VANOS outlet valve
10	A	Activation VANOS inlet valve	VANOS inlet valve
11	--	Not used	
12	--	Not used	
13	E	Activation Fuel injector 1	Fuel injector 1
14	M	Sensor ground	Hot-film air mass meter Intake pipe pressure sensor
15	--	Not used	
16	--	Not used	
17	--	Not used	
18	A	Emergency operation signal, variable valve timing gear	Variable valve timing gear control unit
19	E/A	Bi-directional data interface	Alternator
20	--	Not used	
21	A	Not used	Fuel tank vent valve
22	--	Activation Fuel tank vent valve	
23	--	Not used	
24	--	Not used	
25	E	Not used	Fuel injector 2
26	--	Activation Fuel injector 2	
27	E	Not used	Crankshaft sensor
28	E	Signal Crankshaft sensor	Remote temperature sensor
29	E	Signal Remote temperature sensor	Camshaft sensor I
30	E	Signal Inlet camshaft sensor 1	Camshaft sensor II
31	E	Signal Exhaust camshaft sensor 1	Electric throttle actuator
32	E	Signal Throttle potentiometer 1	Electric throttle actuator
33	E	Signal Throttle potentiometer 2	Knock sensor 1
34	E	Signal Knock sensor 1	Knock sensor 1
35	M	Signal Knock sensor 2	Remote temperature sensor
36	M	Ground Remote temperature sensor	Camshaft sensor II
37	M	Ground Exhaust camshaft sensor 1	Crankshaft sensor
38	E/A	Ground Crankshaft sensor	Variable valve timing gear control unit
39	--	Local CAN-bus high	
40	A	Not used	Actuator, variable intake system
41	A	Activation Actuator, variable intake system	Actuator, variable intake system
42	A	Activation Actuator, variable intake system	Electric throttle actuator
43	A	Activation, electric throttle valve 1	Electric throttle actuator
44	--	Activation, electric throttle valve 2	
45	--	Not used	
46	E	Not used	Knock sensor 1
47	E	Signal Knock sensor 1	Knock sensor 1
48	M	Signal Knock sensor 2	Camshaft sensor I
49	--	Ground Inlet camshaft sensor 1	
50	A	Not used	Electric throttle actuator
51	E/A	Voltage supply Throttle potentiometer	Variable valve timing gear control unit
52	M	Local CAN-bus low	Electric throttle actuator
		Ground Throttle potentiometer	

Pin assignments at plug connector X60004

Pin	Type	Description /Signal type	Connection /Measuring notes
1	A	Signal, terminal 61	Instrument cluster control unit
2	E	Engine start signal feedback	Connector Voltage signal, terminal 30h
3	E	Signal Secondary air pump	Secondary air pump relay
4	E	Signal Electric fan	Electric fan
5	--	Not used	
6	--	Not used	
7	M	Ground Pedal position sensor	Pedal position sensor

8	E	Signal Pedal position sensor	Pedal position sensor
9	A	Voltage supply Pedal position sensor	Pedal position sensor
10	E	Signal Fuel pump relay 1	Fuel pump relay 1
11	--	Not used	
12	M	Ground Pedal position sensor	Pedal position sensor
13	E	Signal Pedal position sensor	Pedal position sensor
14	A	Voltage supply Pedal position sensor	Pedal position sensor
15	--	Not used	
16	--	Not used	
17	A	Speed signal	Diagnostic connector
18	--	Not used	
19	--	Not used	
20	--	Not used	
21	--	Not used	
22	E	Signal Processed wheel speed, rear right	ABS/ASC unit ABS/DSC unit
23	E	Signal Clutch switch	Clutch switch module Manual transmission
24	E	Signal Brake light switch	Light switching centre control unit
25	--	Not used	
26	E	Terminal 15	Fuse F29
27	E	Data link MFL	Volute spring
28	E	Brake light test signal	Brake light switch
29	E	Signal Relay, A/C compressor	Relay, A/C compressor
30	--	Not used	
31	--	Not used	
32	E/A	Signal Diagnostic link TXD	Diagnostic connector
33	E	Electronic vehicle immobilisation	Electronic immobiliser control unit
34	--	Not used	
35	--	Not used	
36	E/A	Signal CAN bus high	Connector, CAN bus
37	E/A	Signal CAN bus low	Connector, CAN bus
38	M	Ground Coolant outlet temperature	Coolant outlet temperature sensor
39	A	Signal Coolant outlet temperature	Coolant outlet temperature sensor
40	--	Not used	

Pin assignments at plug connector X60005			
Pin	Type	Description /Signal type	Connection /Measuring notes
1	--	Not used	
2	E	Signal Ignition coil 4	Ignition coil 4
3	E	Signal Ignition coil 1	Ignition coil 1
4	--	Not used	
5	M	Ground	Ground connector
6	E	Signal Ignition coil 2	Ignition coil 2
7	--	Not used	
8	--	Not used	
9	E	Signal Ignition coil 3	Ignition coil 3

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