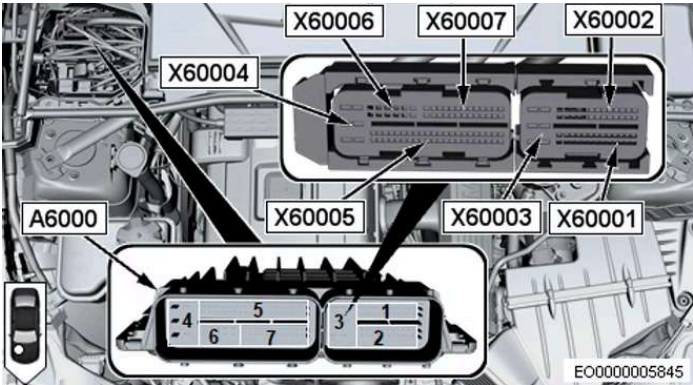


Pinout N43 - SIEMENS MSD80/81

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Plug connector overview

Number	X-pin, colour	Description
X60001	26-pin, grey	Component connector A6000 DME control unit, module 1
X60002	26-pin, black	Component connector A6000 DME control unit, module 2
X60003	6-pin, black	Component connector A6000 DME control unit, module 3
X60004	6-pin, black	Component connector A6000 DME control unit, module 4
X60005	44-pin, black	Component connector A6000 DME control unit, module 5
X60006	12-pin, black	Component connector A6000 DME control unit, module 6
X60007	26-pin, natural	Component connector A6000 DME control unit, module 7

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	E/A	Signal PT-CAN low	Powertrain CAN bus
2	E	Start signal	Car access system
3	E/A	BSD signal	Battery sensor
4	E	Brake light signal	Brake light switch
5	A	Signal, exhaust flap	Exhaust flap
6	E	Signal Temperature sensor at radiator outlet	Temperature sensor at radiator outlet
7	E	Signal Accelerator pedal module	Accelerator pedal module
8	A	Signal Electric fan	Electric fan
9	A	Signal Radiator shutter drive unit	Radiator shutter drive unit
10	M	Ground Accelerator pedal module	Accelerator pedal module
11	A	Supply Accelerator pedal module	Accelerator pedal module
12	A	Activation, fuel pump relay	Junction box
13	A	Signal, electronic vehicle immobilizer	Car access system
14	E/A	Signal PT-CAN high	Powertrain CAN bus
15	E/A	PA bus signal	Car access system
16	E	Brake light test signal	Brake light switch
17	E	Signal, rear right wheel speed	Dynamic stability control (DSC)
18	E	Signal, clutch switch	Clutch switch module
19	E	Signal Temperature sensor at radiator outlet	Temperature sensor at radiator outlet
20	E	Signal Accelerator pedal module	Accelerator pedal module
21	E/A	TD signal	Connector TD signal
22	--	Not used	
23	M	Ground Accelerator pedal module	Accelerator pedal module
24	A	Supply Accelerator pedal module	Accelerator pedal module
25	--	Not used	
26	A	Negative activation E-box fan	E-box fan

Pin assignments at plug connector X60002

Pin	Type	Description /Signal type	Connection /Measuring notes
1	E	Wake-up signal, terminal 15	Connector, terminal 15 wake-up
2	M	with automatic engine start-stop function Sensor ground	Brake vacuum sensor
3	--	Not used	
4	--	Not used	
5	E	Signal, oxygen sensor	Oxygen sensor 2 before catalytic converter
6	E	Signal, oxygen sensor	Oxygen sensor before catalytic converter
7	E	Signal, oxygen sensor	Oxygen sensor 2 before catalytic converter
8	E	Signal, oxygen sensor	Oxygen sensor before catalytic converter
9	E	Signal, oxygen sensor	Oxygen sensor 2 before catalytic converter
10	M	Ground Oxygen sensor before catalytic converter	Oxygen sensor before catalytic converter
11	M	Ground Oxygen sensor 2 before catalytic converter	Oxygen sensor 2 before catalytic converter
12	E	Signal, oxygen sensor heating	Oxygen sensor before catalytic converter
13	E	Signal, oxygen sensor heating	Oxygen sensor 2 before catalytic converter
14	A	with automatic engine start-stop function Voltage supply	Brake vacuum sensor

15	E	with automatic engine start-stop function Signal	Brake vacuum sensor
16	--	Not used	
17	--	Not used	
18	E	Signal, oxygen sensor	Oxygen sensor before catalytic converter
19	--	Not used	
20	E	Signal, oxygen sensor	Oxygen sensor after catalytic converter
21	--	Not used	
22	--	Not used	
23	M	Ground Oxygen sensor after catalytic converter	Oxygen sensor after catalytic converter
24	--	Not used	
25	--	Not used	
26	E	Signal, oxygen sensor	Oxygen sensor after catalytic converter

Pin assignments at plug connector X60003

Pin	Type	Description /Signal type	Connection /Measuring notes
1	E	Supply, terminal 30 up to 2007_08	Fuse F50
1	E	from 2007_09 Supply, terminal 30	Fuse F4
2	E	from 2007_09 Supply, terminal 87	Fuse F39
2	E	Supply, terminal 87 up to 2007_08	Fuse F77
3	E	Supply, terminal 87 up to 2007_08	Fuse F77
3	E	from 2007_09 Supply, terminal 87	Fuse F39
4	M	Ground	Ground point
5	M	Ground	Ground point
6	M	Ground	Ground point

Pin assignments at plug connector X60004

Pin	Type	Description /Signal type	Connection /Measuring notes
1	E	Signal, ignition coil	Ignition coil, cylinder 1
2	--	Not used	
3	A	Signal, ignition coil	Ignition coil, cylinder 4
4	A	Not used	
5	A	Signal, ignition coil	Ignition coil, cylinder 3
6	A	Signal, ignition coil	Ignition coil, cylinder 2

Pin assignments at plug connector X60005

Pin	Type	Description /Signal type	Connection /Measuring notes
1	A	Activation Exhaust recirculation actuator	Exhaust recirculation actuator
2	A	Activation Exhaust recirculation actuator	Exhaust recirculation actuator
3	--	Not used	
4	E	with automatic engine start-stop function Sensor signal	Neutral sensor
5	M	with automatic engine start-stop function Sensor ground	Neutral sensor
6	A	with automatic engine start-stop function Voltage supply	Neutral sensor
7	M	Sensor ground	Low pressure fuel sensor
8	A	Supply Low pressure fuel sensor	Low pressure fuel sensor
9	M	Ground Exhaust recirculation actuator	Exhaust recirculation actuator
10	E	Signal Exhaust recirculation actuator	Exhaust recirculation actuator
11	A	Supply Exhaust recirculation actuator	Exhaust recirculation actuator
12	A	Activation Electrical changeover valve, engine mount	Electrical changeover valve, engine mount
13	A	Activation DME relay	A4010 Junction box
14	A	Supply Electric throttle valve actuator	Electric throttle valve actuator
15	A	Activation Electric throttle valve actuator	Electric throttle valve actuator
16	A	Activation Electric throttle valve actuator	Electric throttle valve actuator
17	--	Not used	
18	--	Not used	
19	E	Signal Double knock sensor	Double knock sensor
20	E	Signal Double knock sensor	Double knock sensor
21	E	Signal Exhaust temperature sensor	Exhaust temperature sensor
22	E/A	Signal Local CAN bus	Nitrogen oxide sensor
23	A	Signal, fuel tank vent valve	Fuel tank vent valve
24	--	Not used	
25	A	Supply Air mass flow sensor	Air mass flow sensor
26	E	Signal Air mass flow sensor	Air mass flow sensor
27	M	Ground Air mass flow sensor	Air mass flow sensor
28	E	Signal, intake air temperature	Air mass flow sensor
29	E	Signal Crankshaft sensor	Crankshaft sensor
30	M	Ground Crankshaft sensor	Crankshaft sensor
31	A	Supply Intake-manifold pressure sensor	Intake-manifold pressure sensor
32	M	Ground Intake-manifold pressure sensor	Intake-manifold pressure sensor
33	E	Signal Intake-manifold pressure sensor	Intake-manifold pressure sensor
34	E	Signal Low pressure fuel sensor	Low pressure fuel sensor
35	E/A	BSD signal	Alternator
36	E	Signal Electric throttle valve actuator	Electric throttle valve actuator
37	E	Signal Electric throttle valve actuator	Electric throttle valve actuator
38	M	Ground Electric throttle valve actuator	Electric throttle valve actuator
39	--	Not used	
40	A	Signal Variable intake system: Position sensor actuator	Variable intake system: Position sensor and actuator
41	E	Signal Double knock sensor	Double knock sensor

42	E	Signal Double knock sensor	Double knock sensor
43	M	Ground Exhaust temperature sensor	Exhaust temperature sensor
44	E/A	Signal Local CAN bus	Nitrogen oxide sensor

Pin assignments at plug connector X60006

Pin	Type	Description /Signal type	Connection /Measuring notes
1	A	Signal, fuel injector	Fuel injector, cylinder 1
2	--	Not used	
3	A	Signal, fuel injector	Fuel injector, cylinder 4
4	--	Not used	
5	A	Signal, fuel injector	Fuel injector, cylinder 3
6	A	Signal, fuel injector	Fuel injector, cylinder 2
7	M	Ground, fuel injector	Fuel injector, cylinder 1
8	--	Not used	
9	M	Ground, fuel injector	Fuel injector, cylinder 4
10	--	Not used	
11	M	Ground, fuel injector	Fuel injector, cylinder 3
12	M	Ground, fuel injector	Fuel injector, cylinder 2

Pin assignments at plug connector X60007

Pin	Type	Description /Signal type	Connection /Measuring notes
1	A	Signal Volume control valve	Volume control valve
2	A	Supply Engine oil pressure sensor	Engine oil pressure sensor
3	A	Signal Engine oil pressure sensor	Engine oil pressure sensor
4	E	Signal, coolant temperature	Engine coolant temperature sensor
5	A	Activation VANOS solenoid valve, intake	VANOS solenoid valve, intake
6	M	Ground Engine oil pressure sensor	Engine oil pressure sensor
7	E	Not used	
8	M	Ground Rail pressure sensor	Rail pressure sensor
9	E	Signal Rail pressure sensor	Rail pressure sensor
10	A	Supply Rail pressure sensor	Rail pressure sensor
11	E	Signal Intake camshaft sensor	Intake camshaft sensor
12	E	Signal Exhaust camshaft sensor	Exhaust camshaft sensor
13	--	Not used	
14	--	Not used	
15	A	Signal Oil pressure control valve	Oil pressure control valve
16	--	Not used	
17	M	Ground Engine coolant temperature sensor	Engine coolant temperature sensor
18	A	Activation VANOS solenoid valve, exhaust	VANOS solenoid valve, exhaust
19	E	Signal Characteristic map thermostat	Characteristic map thermostat
20	--	Not used	
21	--	Not used	
22	--	Not used	
23	--	Not used	
24	M	Ground Intake camshaft sensor	Intake camshaft sensor
25	M	Ground Exhaust camshaft sensor	Exhaust camshaft sensor
26	E/A	BSD signal	Connector BSD signal