

A6000 Digital motor electronics control unit

Connector location views

Number	X-pin, colour	Description
X60001	9-pin, black	Plug connector Digital motor electronics control unit Module 1
X60002	24-pin, black	Plug connector Digital motor electronics control unit Module 2
X60003	52-pin, black	Plug connector Digital motor electronics control unit Module 3
X60004	40-pin, black	Plug connector Digital motor electronics control unit Module 4
X60005	9-pin, black	Plug connector Digital motor electronics control unit Module 5

Pin assignments at plug connector X60001

Pin	Type	Description / Signal type	Connection / Measuring notes
1	A	Terminal 15	Unloader relay terminal 15
2		Not used	
3		Not used	
4	M	Ground	Ground point
5	M	Ground	Ground connector
6	M	Ground	Ground connector
7	E	Terminal 30	B+ terminal

8	E	Voltage supply	Fuse carrier, engine electronics
9	E	Voltage supply	Fuse carrier, engine electronics

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		Not used	
3	E/A	Signal CAN bus low	Transmission control unit
4	E/A	Signal CAN bus high	Transmission control unit
5		Not used	
6	E/A	Signal Diagnostic link TXD	Transmission control unit
7	E	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
8		Not used	
9		Not used	
10		Not used	

11		Not used	
12	E	Signal Solenoid valve, fuel tank ventilation	Solenoid valve, fuel tank ventilation
13	E	Signal Oxygen sensor heater in front of catalytic converter	Heated oxygen sensor 2 in front of catalytic converter
14	E	Signal Oxygen sensor before catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
15	E	Signal Oxygen sensor before catalytic converter	Heated oxygen sensor 2 in front of catalytic converter
16	E	Signal Oxygen sensor after catalytic converter	Heated oxygen sensor 1 behind catalytic converter
17		Not used	
18	E	Signal Oxygen sensor after catalytic converter	Heated oxygen sensor 2 behind catalytic converter
19	E	Signal Oxygen sensor heater behind catalytic converter	Heated oxygen sensor 2 behind catalytic converter
20	M	Ground Oxygen sensor before catalytic converter	Heated oxygen sensor 1 in front of catalytic converter
21	M	Ground Oxygen sensor before catalytic converter	Heated oxygen sensor 2 in front of catalytic converter
22	M	Ground Oxygen sensor after catalytic converter	Heated oxygen sensor 1 behind catalytic converter

23	E	Signal Activation, main relay	DME relay
24	M	Ground Oxygen sensor after catalytic converter	Heated oxygen sensor 2 behind catalytic converter

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 Exhaust camshaft sensor 1	Camshaft sensor II
3	E	Suction jet pump shut-off valve	Valve, sucking jet pump
4	A	Throttle valve supply	Throttle valve
5	E	Signal Inlet camshaft sensor 1	Camshaft sensor I
6		Not used	
7	A	Throttle valve supply	Throttle valve
8	E	Signal Crankshaft sensor	Crankshaft sensor
9	E	Signal Driver's wish sensor 2	Throttle valve

10	E	Signal Throttle potentiometer 2	Throttle valve
11		Not used	
12	E	Engine start signal feedback	Starter
13	E	Signal Battery charge indicator lamp	Alternator
14	M	Ground Throttle position sensor	Throttle valve
15	M	Ground Exhaust camshaft sensor 1	Camshaft sensor II
16	E	Signal Driver's wish sensor 1	Throttle valve
17	M	Ground Air mass sensor	Hot-film air mass meter
18	M	Ground Inlet camshaft sensor 1	Camshaft sensor I
19	E	Signal Throttle potentiometer 1	Throttle valve
20	M	Ground Throttle position sensor	Throttle valve
21	M	Ground Crankshaft sensor	Crankshaft sensor
22	A	Signal Intake air temperature	Intake air temperature sensor

23	M	Ground Intake air temperature	Intake air temperature sensor
24	A	Signal Coolant temperature	Coolant temperature sensor
25	M	Ground Coolant temperature	Coolant temperature sensor
26	E	Signal Oil pressure	Oil pressure switch
27	A	Signal Engine oil temperature	Oil temperature sensor
28	M	Ground Engine oil temperature	Oil temperature sensor
29	A	Signal Knock sensor	Knock sensor
30	A	Signal Knock sensor	Knock sensor
31	A	Signal Knock sensor	Knock sensor
32	A	Signal Knock sensor	Knock sensor
33	E	Signal Fuel injector 1	Fuel injector 1
34	E	Signal Fuel injector 2	Fuel injector 2
35	E	Signal Fuel injector 3	Fuel injector 3

36	E	Signal Fuel injector 4	Fuel injector 4
37	E	Signal Fuel injector 5	Fuel injector 5
38	E	Signal Fuel injector 6	Fuel injector 6
39	E	Signal Oil level sensor	Oil level sensor
40	E	Signal VANOS inlet valve	VANOS inlet valve
41	E	Signal VANOS outlet valve	VANOS outlet valve
42	E	Signal Fuel tank vent valve	Fuel tank vent valve
43	E	Signal Throttle valve	Throttle valve
44	E	Signal Throttle valve	Throttle valve
45	E	Signal Characteristic map cooling	Thermostat, characteristic map cooling
46	E	Signal Close idle speed control valve	Idle actuator
47	E	Signal Open idle speed control valve	Idle actuator
48	M	Signal Shield, knock sensor	Shield, knock sensor
49	E	Signal Valve, individual control intake system	Valve, individual control intake system

50		Not used	
51		Not used	
52	E	Signal Secondary air pump valve	Secondary air pump valve

Pin assignments at plug connector X60004

Pin	Type	Description / Signal type	Connection / Measuring notes
1	E	Signal Battery charge indicator lamp	Instrument cluster control unit
2	E	Engine start signal feedback	Instrument cluster control unit
3	E	Signal Secondary air pump	Secondary air pump relay
4	E	Signal Electric fan	Electric fan
5		Not used	
6		Not used	
7		Not used	
8		Not used	
9		Not used	

10	E	Signal Fuel pump relay 1	Fuel pump relay 1
11	E	Signal Oil pressure switch	Instrument cluster control unit
12		Not used	
13		Not used	
14		Not used	
15		Not used	
16		Not used	
17	E	Speed signal	Diagnostic connector
18	A	Signal, exhaust flap on RHD vehicles Not used on LHD vehicles	Valve, exhaust flap
19		Not used	
20		Not used	
21	E	Signal Oil level sensor	Instrument cluster control unit
22	E	Signal Processed wheel speed, rear right	ABS/ASC unit ABS/DSC unit

23	A	Signal Clutch switch	Clutch switch
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	Signal Brake light switch	Brake light switch
29	E	Signal Relay, A/C compressor	Relay, A/C compressor
30	A	Signal Leakage diagnosis pump	Leakage diagnosis pump
31		Not used	
32	E/A	Signal Diagnostic link TXD	Diagnostic connector
33	E	Electronic vehicle immobilisation	Electronic immobiliser control unit
34	E	Signal Leakage diagnosis pump	Leakage diagnosis pump
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	Temperature sensor
39	A	Signal Coolant outlet temperature	Temperature sensor
40		Not used	

Pin assignments at plug connector X60005

Pin	Type	Description / Signal type	Connection / Measuring notes
1	E	Signal Ignition coil 3	Ignition coil 3
2	E	Signal Ignition coil 2	Ignition coil 2
3	E	Signal Ignition coil 1	Ignition coil 1
4		Not used	
5	A	Ground	Ground connector
6	A	Ground	Ground connector
7	E	Signal Ignition coil 6	Ignition coil 6

8	E	Signal Ignition coil 5	Ignition coil 5
9	E	Signal Ignition coil 4	Ignition coil 4