

## A6000 DME control unit

### Plug connector overview

Number	X-pin	Description
X6000	88	DME control unit

### Pin assignments at plug connector X6000

Pin	Type	Description / Signal type	Connection / Measuring notes
1	A	EKP relay	Fuel pump relay 1
Negative			Can only be measured with crankshaft rotating
2	A	Idle actuator closing winding	Idle actuator
Negative clocked			See component activation
3	A	Fuel injector cyl. 1	Fuel injector cyl. 1
Negative clocked			See component activation, check injection time
4	A	Fuel injector cyl. 4	Fuel injector cyl. 4
Negative clocked			See component activation, check injection time
5	A	Fuel injector cyl. 6	Fuel injector cyl. 6
Negative clocked			See component activation, check injection time
6	M	Ground, fuel injector	Ground point
Ground			
7	A	Fuel injector cyl. 7	Fuel injector cyl. 7
Negative clocked			See component activation, check injection time
8	A	Defect lamp (USA only)	Instrument cluster
Negative			Lights if exhaust gas-related defect code is stored and to check lamp during ignition ON
9		Not used	
10		Not used	
11	A	Throttle position signal	AGS transmission control unit ABS/ASC control unit
Pulse width modulated signal			Value dependent on throttle position

12	E	Oxygen sensor signal	Heated oxygen sensor
Pulsating voltage 0.1-1.0 V			Can only be measured with engine running at operating temperature
13	E	Oxygen sensor signal	Heated oxygen sensor
Pulsating voltage 0.1-1.0 V			Can only be measured with engine running at operating temperature
14	E	Ground, hot film air mass meter	Hot film air mass meter
Ground			
15	M	Signal, ignition circuit monitoring	Ground connector
16	E	Crankshaft sensor signal (speed and position)	Crankshaft sensor
Alternating voltage			
17	E	Camshaft sensor signal (cylinder reference)	Camshaft sensor
Alternating voltage			
18		Not used	
19	A	Secondary air pump relay	Connector, secondary air pump
Negative clocked			
20		Not used	
21		Not used	
22	A	Ignition signal cyl. 7	Ignition coil cyl. 7
Primary signal			RZV adapter
23	A	Ignition signal cyl. 6	Ignition coil cyl. 6
Primary signal			RZV adapter
24	A	Ignition signal cyl. 4	Ignition coil cyl. 4
Primary signal			RZV adapter
25	A	Ignition signal cyl. 1	Ignition coil cyl. 1
Primary signal			RZV adapter
26	E	Terminal 30	Fuse F109

27	A	DME relay	DME relay
Negative			
28	M	Ground for electronics and sensor shield	Ground connector
Ground			
29	A	Idle actuator opening winding	Idle actuator
Negative clocked			Component activation
30		Not used	
31	A	Fuel injector cyl. 5	Fuel injector cyl. 5
Negative clocked			Component activation
32	A	Fuel injector cyl. 8	Fuel injector cyl. 8
Negative clocked			Component activation
33	A	Fuel injector cyl. 3	Fuel injector cyl. 3
Negative clocked			Component activation
34	M	Ground, remaining output stages (apart from ignition and fuel injectors)	Ground point
Ground			
35	A	Fuel injector cyl. 2	Fuel injector cyl. 2
Negative clocked			Component activation
36	A	Tank ventilation valve	Charcoal filter valve
Negative clocked			Component activation
37	A	Oxygen sensor relay	Oxygen sensor relay
Negative clocked			
38		Not used	
39	M	Oxygen sensor ground	Heated oxygen sensor
Ground			
40	M	Oxygen sensor ground	Heated oxygen sensor
Ground			
41	E	Signal, hot film air mass meter	Hot film air mass meter
0-5 V			Status scanning
42	E	Speed signal	Integrated electronic control unit (IKE)
Square-wave signal			Status scanning

43	M	Crankshaft sensor ground	Crankshaft sensor
Ground			
44	M	Camshaft sensor ground	Camshaft sensor
Ground			
45	M	Ground, ignition circuit monitoring	Shield
Ground			
46	A	Injection signal for KVA	Integrated electronic control unit (IKE)
Square-wave signal			
47	A	Engine speed signal	Integrated electronic control unit (IKE)
Square-wave signal			One signal per ignition
48	A	Signal, A/C compressor relay	Heating and A/C control module
Negative			Negative - compressor OFF
49	A	Ignition signal cyl. 2	Ignition coil cyl. 2
Primary signal			RZV adapter
50	A	Ignition signal cyl. 3	Ignition coil cyl. 3
Primary signal			RZV adapter
51	A	Ignition signal cyl. 8	Ignition coil cyl. 8
Primary signal			RZV adapter
52	A	Ignition signal cyl. 5	Ignition coil cyl. 5
Primary signal			RZV adapter
53		Not used	
54	E	Terminal 87	DME relay
> 10 V			
55	M	Ignition ground	Ground point
Ground			
56	E	Terminal 15	Fuse F24
> 10 V			
57	M	Ground	Ground connector
Ground			
58		Not used	

59	A	Throttle potentiometer + 5 V supply	Throttle potentiometer
5 V			
60	E	Programming voltage input	Diagnostic connector
Voltage value			
61		Not used	
62	E	Signal, idle speed increase (anti-stall)	ABS/ASC control unit
> 10 V			If EML signal active
63		Not used	
64	E	Air conditioning system standby signal	Heating and A/C control module
> 10 V			
65	E	A/C compressor signal	Heating and A/C control module
> 10 V			
66	E	up to 12/1994 Not used as of 01/1995 Antitheft alarm system signal (EWS)	Electronic immobilizer control unit (EWS)
67	E	Knock sensor signal	Knock sensor 4
Alternating voltage			
68	E	Knock sensor signal	Knock sensor 3
Alternating voltage			
69	E	Knock sensor signal	Knock sensor 2
Alternating voltage			
70	E	Knock sensor signal	Knock sensor 1
Alternating voltage			
71	M	Ground for temperature sensor, throttle potentiometer and knock sensors	Ground connector
Ground			
72		Not used	
73	E	Throttle potentiometer signal	Throttle potentiometer
0.4-4.2 V			Dependent on throttle status
74		Not used	

75		Not used	
76		Not used	
77	E	Intake air temperature	Intake air temperature sensor
Voltage value			
78	E	Coolant temperature	Coolant temperature sensor
Voltage value			
79		Not used	
80		Not used	
81		Not used	
82	E	Ignition timing adjustment	ABS/ASC control unit
> 10 V			If signal active
83	E	Ignition fade-out	ABS/ASC control unit
<1V/12V			Not activated/activated
84	A	CAN bus shield	AGS transmission control unit
85	E/A	CAN bus low	AGS transmission control unit
86	E/A	CAN bus high	AGS transmission control unit
87	E	Diagnostic link RXD	Diagnostic connector
88	E/A	Diagnostic link TXD	Diagnostic connector