

130-34 FUEL INJECTION

Table k. ECM Pin Assignment—Bosch DME M5.2

Pin	Signal	Component/function	Signal
1	output	Oxygen sensor (monitoring sensor) heater	Oxygen sensor heater control (switched ground)
2	output	Idle speed control valve	Pulsed ground—close signal (see also pin 29)
3	output	Fuel injector control, cyl. 1	Pulsed ground (injection pulse width in ms) cyl. 1
4	output	Fuel injector control, cyl. 4	Pulsed ground (injection pulse width in ms) cyl. 4
5	not used	—	—
6	ground	Ground	Ground for fuel injector output stage
7	not used	—	—
8	output	Check Engine	Instrument cluster, Check Engine lamp
9	not used	—	—
10	input	Electronic immobilizer control (EWS II)	Electronic immobilizer control (EWS II) module
11	output	Automatic climate control	Automatic climate control, to evaporator controller
12	not used	—	—
13	not used	—	—
14	not used	—	—
15	not used	—	—
16	input	Intake air temperature	Intake air temperature signal
17	input	Mass air flow meter	Intake air signal
18	not used	—	—
19	input	Oxygen sensor (monitoring sensor)	Oxygen sensor control
20	output	Crankshaft/rpm sensor	Crankshaft/rpm sensor control
21	input	Camshaft position sensor	Camshaft position signal
22	output	Ignition coil control, cyl. 3	Primary signal, ignition coil 3
23	output	Ignition coil control, cyl. 4	Primary signal, ignition coil 4
24	not used	—	—
25	not used	—	—
26	input	Power supply (terminal 30)	Battery voltage (B+) at all times
27	input	Main relay control	Main relay activation (terminal 85)
28	ground	Ground	Ground for ECM and sensor shielding
29	output	Idle speed control valve	Pulsed ground—open signal (see also pin 2)
30	output	Oxygen sensor (monitoring sensor) heater	Oxygen sensor heater control (switched ground)
31	output	Fuel injector control, cyl. 3	Pulsed ground (injection pulse width in ms) cyl. 3
32	output	Fuel injector control, cyl. 2	Pulsed ground (injection pulse width in ms) cyl. 2
33	not used	—	—
34	ground	Ground	Ground for ECM/ output stages
35	not used	—	—
36	input	A/C compressor relay	A/C compressor relay control
37	not used	—	—
38	not used	—	—
39	not used	—	—
40	input	Knock sensor #2 (cyl. 3,4)	Knock sensor #2 signal
41	not used	—	—
42	input	Vehicle speed	Vehicle speed signal from instrument cluster
43	not used	—	—
44	output	Throttle position sensor (TPS)	Throttle position reference signal

Table k. ECM Pin Assignment—Bosch DME M5.2 (continued)

Pin	Signal	Component/function	Signal
45	output	Mass air flow meter	Intake air signal
46	output	Oxygen sensor (monitoring sensor)	Oxygen sensor control
47	not used	—	—
48	not used	—	—
49	output	Ignition coil control, cyl. 1	Primary signal, ignition coil 1
50	output	Ignition coil control, cyl. 2	Primary signal, ignition coil 2
51	not used	—	—
52	not used	—	—
53	input	Throttle position sensor	Throttle position signal
54	input	Power supply	Battery voltage from main relay (terminal 87)
55	ground	Ground	Ground for ECM
56	input	Power supply (terminal 15)	Battery voltage with key on or engine running
57	output	Activate cooling fan (man. trans.) control	Normal speed relay
58	not used	—	—
59	not used	—	—
60	input	Programming voltage	Programming voltage via data link connector, pin 18
61	output	Evaporative emission valve	Evaporative emission valve control
62	vacant	—	—
63	output	Fuel pump relay	Fuel pump relay control
64	not used	—	—
65	not used	—	—
66	not used	—	—
67	not used	—	—
68	input	Signal above 80°C (man. tran.)	Double temperature switch
69	input	Automatic climate control	Automatic climate control
70	input	Knock sensor #1 (cyl. 1,2)	Knock sensor #1 signal
71	ground	Ground	Ground for analog signals and knock sensors
72	not used	—	—
73	not used	—	—
74	input	Engine coolant temperature sensor	Engine coolant temperature signal
75	not used	—	—
76	not used	—	—
77	output	Oxygen sensor (regulating sensor)	Oxygen sensor control
78	input	Crankshaft/rpm sensor	Crankshaft position/rpm signal
79	input	ABS or traction control	ABS or AST control
80	input	Engine speed	Engine speed signal
81	not used	—	—
82	not used	—	—
83	input	On-board computer	From On-board computer (terminal 4)
84	not used	—	—
85	not used	—	—
86	not used	—	—
87	input	Diagnostic connector (RxD)	Diagnostic RxD (receive) signal to pin 15 in Data link connector
88	output	Diagnostic connector (TxD)	Diagnostic TxD (transmit) signal to pin 17 in Data link connector