

ENGINE CONTROL MODULE (ECM) I/O SIGNAL

ENGINE (DIAGNOSTICS)

Content	Con- nector No.	Termi- nal No.	Signal (V)		Note	
			Ignition SW ON (Engine OFF)	Engine ON (Idling)		
Sensor power supply	B135	9	5	5	—	
Line end check 1	B134	10	0	0	—	
Ignition control	#1	B136	24	0	13 — 14	Waveform
	#2	B136	23	0	13 — 14	Waveform
	#3	B136	22	0	13 — 14	Waveform
	#4	B136	21	0	13 — 14	Waveform
Fuel injec- tor	#1	B137	1	10 — 13	1 — 14	Waveform
	#2	B136	6	10 — 13	1 — 14	Waveform
	#3	B136	5	10 — 13	1 — 14	Waveform
	#4	B136	4	10 — 13	1 — 14	Waveform
Idle air control solenoid valve	Signal	B136	10	0 or 13 — 14	0 or 13 — 14	Waveform
Fuel pump controller	Signal 1	B134	13	—	—	—
	Signal 2	B136	16	—	—	—
A/C relay control	B137	27	ON: 0.5, or less OFF: 10 — 13	ON: 0.5, or less OFF: 13 — 14	—	
Radiator fan relay 1 control	B137	17	ON: 0.5, or less OFF: 10 — 13	ON: 0.5, or less OFF: 13 — 14	—	
Radiator fan relay 2 control	B137	28	ON: 0.5, or less OFF: 10 — 13	ON: 0.5, or less OFF: 13 — 14	With A/C vehicles only	
Malfunction indicator lamp	B137	15	—	—	Light "ON": 1, or less Light "OFF": 10 — 14	
Engine speed output	B136	9	—	0 — 13, or more	Waveform	
Purge control solenoid valve	B137	16	ON: 1, or less OFF: 10 — 13	ON: 1, or less OFF: 13 — 14	—	
Pressure sensor	Signal	B135	8	1.7 — 2.4	1.1 — 1.6	—
	Power supply	B135	9	5	5	
	GND (sen- sor)	B135	19	0	0	
Fuel level sensor	B135	25	0.12 — 4.75	0.12 — 4.75	—	
Small light switch	B134	17	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Blower fan switch	B134	9	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Rear defogger switch	B134	3	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Power steering oil pres- sure switch	B135	24	10 — 13	ON: 0 OFF: 13 — 14	—	
Front oxygen (A/F) sen- sor signal (+)	B137	19	2.8 — 3.2	2.8 — 3.2	—	
Front oxygen (A/F) sen- sor signal (-)	B137	29	2.4 — 2.7	2.4 — 2.7	—	
Front oxygen (A/F) sen- sor shield	B136	7	0	0	—	
SSM/GST communica- tion line	B134	21	Less than 1 ←→ More than 4	Less than 1 ←→ More than 4	—	
Torque control 1 signal	B134	19	More than 4	More than 4	—	
Torque control 2 signal	B134	18	More than 4	More than 4	—	
Torque control cut sig- nal	B136	14	8	8	—	