

## Control Module I/O Signal

Content		Connector No.	Terminal No.	Signal (V)		Note
				Ignition SW	Engine ON (Idling)	
				ON (Engine OFF)		
Crankshaft position sensor	Signal (+)	B136	6	0	±6	Sensor output waveform
	Signal (-)	B136	23	0	0	—
	Shield	B136	30	0	0	—
Camshaft position sensor	Signal (+)	B136	5	0	±6	Sensor output waveform
	Signal (-)	B136	23	0	0	—
	Shield	B136	30	0	0	—
Mass air flow sensor	Signal	B136	1	1	1.0 — 1.7	—
	Shield	B136	30	0	0	—
	GND	B136	31	0	0	—
Throttle position sensor	Signal	B136	20	Fully closed: 0.5±0.3 Fully opened: 4.3±0.3		—
	Power supply	B136	12	5	5	—
	GND	B136	24	0	0	—
Oxygen sensor	Signal	B136	21	0	Rich mixture: 0.7 Lean mixture: 0	
	Shield	B136	30	0	0	—
Engine coolant temperature sensor	Signal	B136	28	0.6 — 1.0	0.6 — 1.0	After warm-up
	GND	B136	24	0	0	—
Intake air temperature sensor		B136	19	2.5 — 2.3	1.4 — 1.6	After warm-up
Vehicle speed sensor		B135	26	0 or 5	0 or 5	"5" and "0" are repeatedly displayed when vehicle is driven.
Starter switch		B135	2	0	0	Cranking: 10 to 14
A/C switch		B135	11	ON: 10 — 13 OFF: 0	ON: 13 — 14 OFF: 0	—
Ignition switch		B136	25	10 — 13	13 — 14	—
Neutral position switch (MT)		B135	29	ON: 5 OFF: 0		Switch is ON when gear is in neutral position.
Test mode connector		B135	22	5	5	When connected: 0
Read memory connector		B135	13	5	5	When connected: 0
Back-up power supply		B135	17	10 — 13	13 — 14	—
Control unit power supply		B136	9	10 — 13	13 — 14	—
			8			
Ignition control	# 1, # 2	B134	7	0	3.4, max.	—
	# 3, # 4	B134	16	0	3.4, max.	—
Fuel injector	# 1	B134	31	10 — 13	13 — 14	Waveform
	# 2	B134	32	10 — 13	13 — 14	Waveform
	# 3	B134	25	10 — 13	13 — 14	Waveform
	# 4	B134	18	10 — 13	13 — 14	Waveform

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			Ignition SW	Engine ON (Idling)		
			ON (Engine OFF)			
Idle air control solenoid valve	Signal 1	B134	14	—	1 — 13	Waveform
	Signal 2	B134	5	—	1 — 13	Waveform
	Signal 3	B134	15	—	1 — 13	Waveform
	Signal 4	B134	6	—	1 — 13	Waveform
Fuel pump relay control	B134	21	ON: 0 OFF: 10 — 13	0	—	—
A/C relay control	B134	22	ON: 0 OFF: 10 — 13	ON: 0 OFF: 10 — 14	—	—
Radiator fan relay 1 control	B134	4	ON: 0 OFF: 10 — 13	ON: 0 OFF: 10 — 14	—	—
Radiator fan relay 2 control	B134	13	ON: 0 OFF: 10 — 13	ON: 0 OFF: 10 — 14	—	—
Self-shutoff control	B136	32	10 — 13	10 — 14	OV WITH INTC OFF	—
Malfunction indicator lamp	B134	28	—	—	Light "ON": 1, max. Light "OFF": 10 — 14	—
Engine speed output	B135	14	—	0 — 13, min.	Waveform	—
Knock sensor	Signal	B136	26	2.8	2.8	—
	Shield	B136	29	0	0	—
Wastegate control	B134	19	10 — 13	13 — 14	—	—
Pressure sources switching solenoid valve	B134	26	10 — 13	13 — 14	—	—
Purge control solenoid valve	B135	7	ON: 0 OFF: 10 — 13	ON: 0 OFF: 10 — 14	—	—
GND (sensors)	B136	24	0	0	—	—
GND (injectors)	B134	9	0	0	—	—
GND (ignition system)	B134	17	0	0	—	—
GND (power supply)	B134	8	0	0	—	—
GND (control systems)	B136	18	0	0	—	—
	B136	21	0	0	—	—
Select monitor signal	B136	3	—	—	—	—
		4	—	—	—	—
Power steering switch	B135	1	ON: 0 OFF: 10 — 13	ON: 0 OFF: 10 — 13	—	—
MT identification	B135	4	0	0	—	—
Pressure sensor	B136	7	5	5	—	—