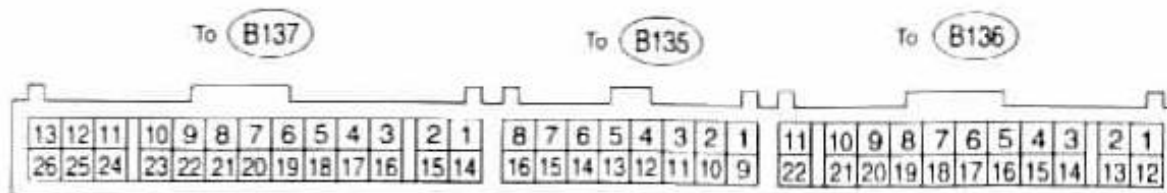


5. Control Module I/O Signal



B2M0219F

Content	Connector No.	Terminal No.	Signal (V)		Note	
			Ignition SW	Engine ON (Idling)		
			ON (Engine OFF)			
Crankshaft position sensor	Signal (+)	B136	*1	0	+6	Sensor output waveform
	Signal (-)	B136	9	0	0	—
	Shield	B136	13	0	0	—
Camshaft position sensor	Signal (+)	B136	*2	0	+6	Sensor output waveform
	Signal (-)	B136	9	0	0	—
	Shield	B136	13	0	0	—
Mass air flow sensor	Signal	B136	6	0 — 0.3	0.6 — 1.2	—
	Shield	B136	13	0	0	—
	GND	B136	7	0	0	—
Throttle position sensor	Signal	B136	16	Fully closed: 0.5 ± 0.3 Fully opened: 4.3 ± 0.3		—
	Power supply	B136	14	5	5	—
	GND	B136	13	0	0	—
Oxygen sensor	Signal	B136	5	0	Rich mixture: 0.7 Lean mixture: 0	
	Shield	B136	13	0	0	—
Engine coolant temperature sensor	Signal	B136	3	0.6 — 1.0	0.6 — 1.0	After warm-up
	GND	B136	13	0	0	—
Vehicle speed sensor 2	B135	3	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	10	ON: 10 — 13 OFF: 0	ON: 13 — 14 OFF: 0	—	
Ignition switch	B136	11	10 — 13	13 — 14	—	
Neutral position switch (MT)	B135	9	ON: 5 OFF: 0	Switch is ON when gear is in neutral position.		
Park Neutral position switch (AT)	B135	9	ON: 0 OFF: 5	Switch is ON when shift lever is in "P" or "N" position.		
Test mode connector	B136	21	5	5	When connected: 0	

*1 With immobiliser: 8
Without immobiliser: 10

*2 With immobiliser: 10
Without immobiliser: 8

FUEL INJECTION SYSTEM M [TURBO MODEL]

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5. Control Module

Content	Connector No	Terminal No.	Signal (V)		Notes	
			Ignition SW ON (Engine OFF) (V)	Engine ON (Idling)		
Memory connector	B136	20	5	5	When conn	
Power supply	B137	15	10 — 13	13 — 14	—	
Unit power	B136	1	10 — 13	13 — 14	—	
		2				
Injector	# 1, # 2	B137	10	0	3, 4, max.	—
	# 3, # 4	B137	9	0	3, 4, max.	—
Injector	# 1	B137	26	10 — 13	13 — 14	Wavefo
	# 2	B137	13	10 — 13	13 — 14	Wavefo
	# 3	B137	12	10 — 13	13 — 14	Wavefo
	# 4	B137	11	10 — 13	13 — 14	Wavefo
Idle	OPEN end	B137	2	—	1, max. — 13, min.	Wavefo
	CLOSE end	B137	1	—	13, min. — 1, max.	Wavefo
Control signal*4	B135	11	0	5	—	
Temp relay control	B137	*3	ON: 0 OFF: 10 — 13	0	—	
Fan relay control	B137	21	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Fan relay 1	B135	8	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Fan relay 2	B135	16	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Shutdown control	B136	22	10 — 13	13 — 14	—	
Position indicator	B137	8	—	—	Light "ON": 1, Light "OFF": 10	
Speed output	B135	14	—	0 — 13, min.	Waveform	
Shield	Signal	B136	4	2.8	2.8	—
	Shield	B136	13	0	0	—
Throttle control	B137	3	10 — 13	13 — 14	—	
Pressure sources reg solenoid valve	B137	6	10 — 13	13 — 14	—	
Control solenoid	B135	15	ON: 0 OFF: 10 — 13	ON: 0 OFF: 13 — 14	—	
Sensors)	B136	13	0	0	—	
Injectors)	B137	25	0	0	—	
Ignition system)	B137	24	0	0	—	
Power supply)	B137	14	0	0	—	
Control systems)	B136	12	0	0	—	
Monitor signal	B135	4	—	—	—	
		5	—	—	—	

immobiliser: 17
not immobiliser: 7
model only