

# 7. Control Unit I/O Signal

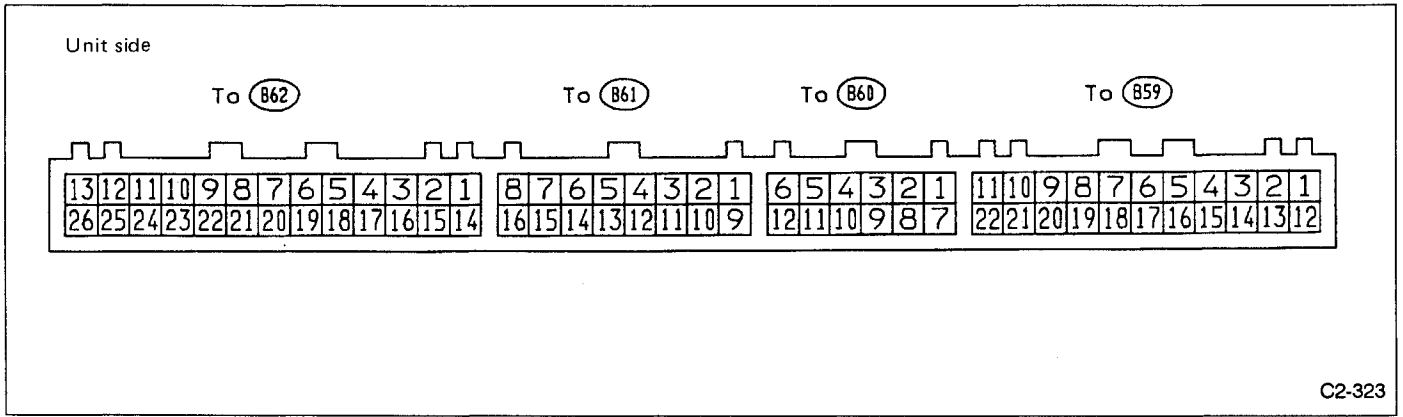


Fig. 40

Content	Con- nector No.	Ter- minal No.	Signal			Note	
			IG switch		Engine ON (Idling)		
			OFF	ON (Engine OFF)			
Crank angle sensor 1	Signal (+)	B61	1	—	0	*	*: Sensor output waveform
	Signal (-)	B61	2	—	0	0	
	Sealed	B61	3	—	0	0	
Cam angle sensor	Signal (+)	B59	7	—	0	*	*: Sensor output waveform
	Signal (-)	B59	9	—	0	0	
	Sealed	B59	10	—	0	0	
Crank angle sensor 2	Signal (+)	B59	8	—	0	*	*: Sensor output waveform
	Signal (-)	B59	9	—	0	0	
	Sealed	B59	10	—	0	0	
Air flow sensor	V <sub>B</sub>	B60	11	—	10 — 13	13 — 14	
	Signal	B60	5	—	0 — 0.3	0.8 — 1.2	
	GND	B60	6	—	0	0	
Throttle sensor	V <sub>CC</sub>	B60	3	—	5	5	
	Signal	B60	2	—			
	GND	B60	1	—	0	0	
O <sub>2</sub> sensor 1	Signal	B59	6	—	0.6	1	
	Sealed	B59	17	—	0	0	
O <sub>2</sub> sensor 2	Signal	B59	5	—	0.6	1	
	Sealed	B59	17	—	0	0	
Knock sensor 1	Signal	B61	5	—	2 — 4	2 — 4	
	Sealed	B61	4	—	0	0	
Knock sensor 2	Signal	B61	6	—	2 — 4	2 — 4	
	Sealed	B61	4	—	0	0	
Water temperature sensor	B59	3	0		0.7 — 1.0	0.7 — 1.0	After warm-up
Vehicle speed sensor 2	B60	11	—		0 or 5	0 or 5	
49-state and Canada/ California identification	B62	4	—				
Starter switch	B61	10	—		0	0	On cranking: 10 — 14
A/C switch	B61	9	—		ON: 10 — 13, OFF: 0	ON: 10 — 13, OFF: 0	
Ignition switch	B60	12	0		10 — 13	13 — 14	
Neutral switch	B60	10	—		N range: 0, Other: 8	N range: 0, Other: 8	
Parking switch	B60	9	—		P range: 0, Other: 8	P range: 0, Other: 8	
Power steering switch	B60	7	—		5	5	

Content	Con- nector No.	Ter- minal No.	Signal			Note	
			IG switch		Engine ON (Idling)		
			OFF	ON (Engine OFF)			
Test mode	B61	13	—	5	5	When connected: 0	
Read memory	B61	12	—	5	5	When connected: 0	
Back-up power supply	B59	15	10 — 13	10 — 13	13 — 14		
Control unit power supply	B59	2	0	10 — 13	13 — 14		
	B59	13	0	10 — 13	13 — 14		
Ignition coil	#1	B62	7	—	0.01	—	
	#2	B62	8	—	0.01	—	
	#3	B62	9	—	0.01	—	
	#4	B62	10	—	0.01	—	
	#5	B62	21	—	0.01	—	
	#6	B62	16	—	0.01	—	
Fuel injector	#1	B62	13	∅	10 — 13	0 - 12	Waveform
	#2	B62	12	∅	10 — 13	0 - 12	Waveform
	#3	B62	11	∅	10 — 13	0 - 12	Waveform
	#4	B62	26	∅	10 — 13	0 - 12	Waveform
	#5	B59	1	∅	10 — 13	0 - 12	Waveform
	#6	B59	12	∅	10 — 13	0 - 12	Waveform
By-pass air control solenoid valve	OPEN end	B62	2	—	7		
	CLOSE end	B62	1	—	6		
Auxiliary air control valve	B62	18	—				
Canister purge control	B62	6	—	ON: 0, OFF: 10 — 13	ON: 0, OFF: 10 — 13		
EGR control	B62	22	—	ON: 0, OFF: 10 — 13	ON: 0, OFF: 10 — 13		
Recirculation gas temperature sensor	B59	4	—	—			
Engine torque control	B59	20	—	—	ON: 0, OFF:5		
Inertia-Resonance supercharging control	B62	20	—	—	ON: 0, OFF: 13 — 14		
Fuel pump relay control	B62	23	—	ON: 0, OFF: 10 — 13			
Fuel pump discharge flow control	B61	14	—	—	High flow: 0 Low flow: 4 — 7		
A/C clutch control	B60	8	—	—	ON: 0, OFF: 13 — 14		
A/C compressor control	B59	19	—	—			
Radiator fan relay 1 control	B62	17	—	ON: 0, OFF: 10 — 13	ON: 0, OFF: 13 — 14		
Radiator fan relay 2 control	B62	3	—	ON: 0, OFF: 10 — 13	ON: 0, OFF: 13 — 14		
Self-shutoff control	B62	5	—	10 — 13	13 — 14		
Engine revolution output	B61	16	—	—	—		
CHECK ENGINE light	B62	19	—	—	—	Light ON: 1, max., OFF: 10 — 14	
Atmospheric pressure sensor	B59	16	—	—	—		
GND (sensors)	B59	21	—	0	0		
GND (injectors)	B62	24	—	0	0		
	B62	25	—	0	0		
GND (power supply)	B62	14	—	0	0		
GND (ignition system)	B62	15	—	0	0		
GND (control systems)	B59	11	—	0	0		
	B59	22	—	0	0		
Select monitor signal	B61	7	—	—	—		
	B61	8	—	—	—		
GND (body)	B59	14	—	—	—		