SERVICE SPECIFICATIONS

EG0ZA-03

SERVICE DATA

EG

Fuel pressure regulator	Fuel pressure	at no vacuum	265 — 304 kPa (2.7 — 3.1 kgf/cm², 38 — 44 psi)
Fuel pump	Resistance (Cold)		0.2 — 3.0 Ω
Injector	Resistance		12 — 16 Ω
	Injection volume		66 — 82 cm³ (4.0 — 5.0 cu in.) per 15 seconds
	Difference between each cylinder		5 cm³ (0.3 cu in.) or less
	Fuel leakage		One drop or less per minute
Air flow meter	Resistance	Terminals	Resistance
		VS — E2	200 — 600 Ω (Measuring plate fully closed)
		VS — E2	20 — 1,200 Ω (Measuring plate fully open)
		VC — E2	200 — 400 Ω
		THA — E2	10 — 20 kΩ at −20°C (−4°F)
		THA — E2	4 — 7 kΩ at 0°C (32°F)
		THA — E2	2 — 3 kΩ at 20°C (68°F)
		THA — E2	0.9 — 1.3 kΩ at 40°C (104°F)
		THA — E2	0.4 — 0.7 kΩ at 60°C (140°F)
Throttle body	Throttle valve fully closed angle		6°
	Dashpot setting speed		2,200 ± 300 rpm
	Throttle opener setting speed		700 — 1,000 rpm
TP sensor	Clearance between stop screw and lever	Terminals	Resistance
	0 mm (0 in.)	VTA — E2	0.2 — 5.7 kΩ
	0.50 mm (0.020 in.)	IDL — E2	2.3 kΩ or less
	0.75 mm (0.030 in.)	IDL — E2	Infinity
	Throttle valve fully open	VTA — E2	2.0 — 10.2 kΩ
	—	VC — E2	2.5 — 5.9 kΩ
ISC valve	Resistance	B1 — S1, S3	10 — 30 Ω
		B2 — S2, S4	10 — 30 Ω
Water temp. sensor	Resistance		10 — 20 kΩ at −20°C (−4°F) 4 — 7 kΩ at 0°C (32°F) 2 — 3 kΩ at 20°C (68°F) 0.9 — 1.3 kΩ at 40°C (104°F) 0.4 — 0.7 kΩ at 60°C (140°F) 0.2 — 0.4 kΩ at 80°C (176°F)
Fuel pump resistor	Resistance (Cold)		Approx. 0.73 Ω
VSV for EVAP	Resistance		30 — 33 Ω at 20°C (68°F)
VSV for fuel pressure control	Resistance		37 — 44 Ω at 20°C (68°F)
VSV for EGR	Resistance		30 — 34 Ω at 20°C (68°F)
VSV for AS	Resistance		37 — 44 Ω at 20°C (68°F)
Oxygen sensor	Heater coil resistance		5.0 — 6.5 Ω at 20°C (68°F)

ECU	Condition	Terminals	Voltage
	—	BATT — E1	9 — 14 V
	IG SW ON	IG SW — E1	9 — 14 V
	IG SW ON	M—REL — E1	9 — 14 V
	IG SW ON	+B, +B1 — E1	9 — 14 V
	IG SW ON — Throttle valve open	IDL — E2	9 — 14 V
	IG SW ON	VCC — E2	4.5 — 5.5 V
	IG SW ON — Throttle valve fully closed (Throttle opener must be cancelled first)	VTA — E2	0.3 — 0.8 V
	IG SW ON — Throttle valve fully open	VTA — E2	3.2 — 4.9 V
	IG SW ON — Measuring plate fully closed	VS — E2	3.5 — 4.5 V
	IG SW ON — Measuring plate fully open	VS — E2	0.2 — 0.5 V
	Idling	VS — E2	1.2 — 2.4 V
	3,000 rpm	VS — E2	0.8 — 1.3 V
	IG SW ON	10 ~ 60 — E01	9 — 14 V
	IG SW ON	10 ~ 60 — E02	9 — 14 V
	IG SW ON — Intake air temp. 20°C (68°F)	THA — E2	0.5 — 3.4 V
	IG SW ON — Water temp. 80°C (176°F)	THW — E2	0.2 — 1.0 V
	Cranking	STA — E1	6 V or more
	Idling	IGT — E1	Pulse generation
	IG SW ON	ISC1 ~ ISC4 — E1	9 — 14 V
	No trouble and engine running		
		W — E1	9 — 14 V
	IG SW ON	IGF — E1	2 V or less
	Idling	IGF — E1	Pulse generation
	Idling	G1, G2 — G⊖	Pulse generation
	Idling	NE — G⊖	Pulse generation
	Idling	KNK1, KNK2 — E1	Pulse generation
	Maintain engine speed at 2,500 rpm for 120 seconds after warning up then return to idling		
		VF1, VF2 — E1	1.8 — 3.2 V
	IG SW ON — Shift position P or N	NSW — E1	3 V or less
	IG SW ON — Ex. shift position P or N	NSW — E1	9 — 14 V
	IG SW ON — Rotate driving wheel slowly		
		SPD — E1	Pulse generation
	IG SW ON — Check connector TE1 — E1 not connected		
		TE1, TE2 — E1	9 — 14 V
	IG SW ON — Check connector TE1 — E1 connected		
		TE1, TE2 — E1	1.5 V or less
	IG SW ON — A/C ON	A/C — E1	7.5 — 14 V
	IG SW ON — A/C OFF	A/C — E1	1.5 V or less
	Stop light SW ON (Brake pedal depressed)	STP — E1	7.5 — 14 V
	Stop light SW OFF	STP — E1	1.5 V or less

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ECU	Condition	Terminals	Resistance
	Throttle valve open	IDL – E2	Infinity
	Throttle valve fully closed	IDL – E2	2,300 Ω or less
	(Throttle opener must be cancelled first)		
	Throttle valve fully open	VTA – E2	2,000 – 10,200 Ω
	Throttle valve fully closed	VTA – E2	200 – 5,700 Ω
	(Throttle opener must be cancelled first)		
	–	VCC – E2	2,500 – 5,900 Ω
	Measuring plate fully closed	VS – E2	200 – 600 Ω
	Measuring plate fully open	VS – E2	20 – 1,200 Ω
	IAT 20°C (68°F)	THA – E2	2,000 – 3,000 Ω
	ECT 80°C (176°F)	THW – E2	200 – 400 Ω
	Cold (–10°C (14°F) to 50°C (122°F))		
		G1, G2 – G⊖	185 – 275 Ω
	Hot (50°C (122°F) to 100°C (212°F))		
		G1, G2 – G⊖	240 – 325 Ω
	Cold (–10°C (14°F) to 50°C (122°F))	NE – G⊖	185 – 275 Ω
	Hot (50°C (122°F) to 100°C (212°F))	NE – G⊖	240 – 325 Ω
	–	+B, +B1 – ISC1 ~ ISC4	10 – 30 Ω
Fuel cut speed			or more
Fuel return speed			1,200 rpm

EGOEE-08

TORQUE SPECIFICATIONS

Part tightened	N·m	kgf·cm	ft·lbf
Fuel line (Union bolt type)	29	300	22
Fuel line (Flare nut type)	30	310	22
Fuel pump bracket assembly x Fuel tank	3.9	40	35 in.·lbf
Second seat x Body	39	400	29
Drain plug x Fuel tank	6.5	65	57 in.·lbf
Fuel tank brether tube x Fuel tank	1.5	15	13 in.·lbf
Fuel tank filler pipe x Fuel tank	3.5	35	31 in.·lbf
Fuel tank band x Body	39	400	29
Fuel pressure regulator x Delivery pipe	25	250	18
Fuel inlet hose x Fuel filter	29	300	22
Delivery pipe x Intake manifold	21	210	15
No.1 fuel pipe x Delivery pipe (Union bolt)	29	300	22
No.1 fuel pipe x Delivery pipe (Bolt)	20	200	14
No.1 fuel pipe x Fuel filter	29	300	22
Fuel return pipe x Intake manifold	20	200	14
Air intake chamber x Intake manifold	21	210	15
PS reservoir tank x Air intake chamber	18	185	13
Oil dipstick guide x Intake manifold	20	200	14
Oil dipstick guide x No.1 oil pan	20	200	14
Heater inlet pipe x Air intake chamber	20	200	14
EGR valve x Air intake chamber (Stud bolt)	10	105	8
EGR valve x Air intake chamber (Nut)	19	195	14
EGR valve x EGR pipe	64	650	47
VAF meter x Bracket	4.9	50	43 in.·lbf
VAF meter x Air cleaner cap	10	100	7
Throttle body x Air intake chamber	21	210	15
ECT sensor x Cylinder head	20	200	14
Knock sensor x Cylinder block	44	450	33