## SERVICE SPECIFICATIONS SERVICE DATA

EGOZA-03

Fuel pressure	Fuel pressure at no vacu	m 265 –	304 kPa	
regulator		(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		$66 - 82 \text{ cm}^3$ (4.0 $- 5.0 \text{ cu in.}$ ) per 15 seconds	
	Difference between each cylinder	5 cm³	(0.3 cu in.) or less	
	Fuel leakage	One dr	op or less per minute	
Air flow meter	Resistance Termin	ls Resista	ance	
	vs –	200 –	600 $\Omega$ (Measuring plate fully closed)	
	Vs –	20 -	1,200 Ω (Measuring plate fully open)	
	vc	200 –	400 Ω	
	THA -	2 10 - 2	20 kΩ at -20°C (-4°F)	
	THA	2 4 - 7	kΩ at 0°C (32°F)	
	THA -	2 2 - 3	kΩ at 20°C (68°F)	
	THA	2 0.9 -	1.3 kΩ at 40°C (104°F)	
	THA -	2 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 Termin	is Resista	ance	
	0 mm (0 in.) VTA —	2 0.2 -	5.7 kΩ	
	0.50 mm (0.020 in.) IDL —	2.3 kΩ	or less	
	0.75 mm (0.030 in.) IDL —	2 Infinity	,	
	Throttle valve fully open VTA -	2.0 —	10.2 kΩ	
	_ vc -	2.5 —	5.9 kΩ	
ISC valve	Resistance B1 - S1,	33   10 - 3	30 Ω	
	B2 — \$2,			
Water temp.	Resistance	10 – 2	20 kΩ at -20°C (-4°F)	
sensor		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)	
			0.7 kΩ at 60°C (140°F)	
		0.2 -	0.4 kΩ at 80°C (176°F)	
Fuel pump	Resistance (Cold)	Арргоз	κ. 0.73 Ω	
resistor				
VSV for EVAP	Resistance		33 Ω at 20°C (68°F)	
VSV for fuel	Resistance	37 - 4	44 Ω at 20°C (68°F)	
pressure				
control				
VSV for EGR	Resistance	30 — 3	34 Ω at 20°C (68°F)	
VSV for AS	Resistance	37 – 4	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	<b>4</b> .5 − 5.5 V
	IG SW ON — Throttle valve fully closed VTA — E2	0.3 - 0.8 V
	(Throttle opener must be cancelled first)	
	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
İ	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

ECU	Condition	Terminals	Resistance
	Throttle valve open	1DL - E2	Infinity
	Throttle valve fully closed	IDL - E2	2,300 Ω or less
	(Throttle opener must be cancelled fir	st)	
	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 fir	rst)	
		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			1,200 rpm
speed			1,200 1pm

## **TORQUE SPECIFICATIONS**

EGOEE-08

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 inlbf
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 inlbf
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

