

# SERVICE SPECIFICATIONS

EG153-01

## SERVICE DATA

Fuel pressure regulator	Fuel pressure at no vacuum	265 - 304 kPa (2.7 - 3.1 kgf/cm <sup>2</sup> , 38 - 44 psi)	
Fuel pump	Resistance	0.2 - 3.0 Ω	
Injector	Resistance	Approx. 13.8 Ω	
	Injection volume	49 - 59 cm <sup>3</sup> (3.0 - 3.6 cu in.) per 15 sec.	
	Difference between each cylinder	5 cm <sup>3</sup> (0.3 cu in.) or less	
	Fuel leakage	One drop or less per minute	
Throttle body	Throttle body fully closed angle	6°	
	Throttle opener setting speed	1,300 - 1,500 rpm ( w/ Cooling fan OFF)	
Throttle position sensor	Clearance between stop screw and lever	Terminal 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
	0.70 mm (0.028 in.)	IDL - E2	Infinity
	Throttle valve fully open	VTA - E2	2.0 - 10.2 kΩ
-	VC - E2	2.5 - 5.9 kΩ	
IACV	Resistance +B - ISCC or ISCO	19.3 - 22.3 Ω	
ECTS	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)	
TATS	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)	
VSV (for Fuel pressure)	Resistance (Cold)	37 - 44 Ω	
VSV (for EGR)	Resistance (Cold)	33 - 39 Ω	
A/C idle-up valve	Resistance (Cold)	30 - 34 Ω	
EGR function sensor (Calif. only)	Resistance	69 - 89 kΩ at 50°C (122°F)	
		11 - 15 kΩ at 100°C (212°F)	
		2 - 4 kΩ at 150°C (302°F)	
Oxygen sensor	Heater coil resistance	5.1 - 6.3 Ω at 20°C (68°F)	

PCME (& T)	Condition	Terminals	Voltage
	IG SW ON	+B - E1	9 - 14 V
	IG SW ON	+B1 - E1	9 - 14 V
	-	BATT - E1	9 - 14 V
	IG SW ON - Throttle valve open	IDL - E2	9 - 14 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	PIM - E2	3.3 - 3.9 V
	IG SW ON	VC - E2	4.5 - 5.5 V
	IG SW ON	#10 or #20 - E01	9 - 14 V
	IG SW ON	#10 or #20 - E02	9 - 14 V
	IG SW ON - Intake air temp. 20°C (68°F)	THA - E2	0.5 - 3.4 V
	IG SW ON - Coolant 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	ISCO - E1	9 - 14 V
	No trouble ("CHECK" engine warning light off) and engine running	W - E1	9 - 14 V
	IG SW ON - Air conditioning ON	ACA - E2	0 - 3 V
	IG SW ON - Air conditioning ON	ACT - E2	4.5 - 5.5 V
	IG SW ON		
	- DLC1 TE1 - E1 not connected	TE1 - E1	9 - 14 V
	IG SW ON		
	- DLC1 TE1 - E1 connected	TE1 - E1	0 - 3 V
	IG SW ON - Park/neutral switch P or N range	NSW - E1 (A/T only)	0 - 3 V
	IG SW ON - EX. Park/neutral switch P or N range	NSW - E1 (A/T only)	9 - 14 V
	Stop light SW ON (Brake pedal depressed)	B/K - E1	7.5 - 14 V

PCM E (& T)	Condition	Terminals	Resistance
	Throttle valve open	IDL - E2	Infinity
	Throttle valve fully closed (Throttle opener must be cancelled first)	IDL - E2	2,300 Ω or less
	Throttle valve fully open	VTA - E2	2,000 - 10,200 Ω
	Throttle valve fully closed (Throttle opener must be cancelled first)	VTA - E2	200 - 5,700 Ω
	-	VC - E2	2,500 - 5,900 Ω
	Intake air temp. 20°C (68°F)	THA - E2	2,000 - 3,000 Ω
	Coolant temp. 80°C (176°F)	THW - E2	200 - 400 Ω
	Cold (-10°C (14°F) to 50°C (104°F))	G+ - G-	185 - 275 Ω
	Hot (50°C (104°F) to 100°C (212°F))	G+ - G-	240 - 325 Ω
	Cold (-10°C (14°F) to 50°C (104°F))	NE+ - NE-	370 - 550 Ω
	Hot (50°C (104°F) to 100°C (212°F))	NE+ - NE-	475 - 650 Ω
	-	+B or +B1 - ISCC or ISCO	19.3 - 22.3 Ω
Fuel cut rpm	Fuel return rpm		1,500 rpm

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## 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
Drain plug x Fuel tank	13	130	9
Fuel pump x Fuel tank	3.4	35	30 in.·lbf
Fuel sender gauge x Fuel tank	1.5	15	13 in.·lbf
Fuel evaporation vent tube x Fuel tank	1.5	15	13 in.·lbf
Fuel tank filler pipe x Fuel tank	3.4	35	30 in.·lbf
Fuel tank band x Body	29	300	22
No.2 center floor crossmember x Body	29	300	22
Fuel pressure regulator x Delivery pipe	5.4	55	48 in.·lbf
Fuel return pipe x Fuel pressure regulator	19	195	14
Delivery pipe x Cylinder head	13	130	9
Fuel inlet pipe x Delivery pipe	34	350	25
Air intake chamber stay x Intake manifold	42	425	31
Air intake chamber stay x Cylinder head	42	425	31
Throttle body x Intake manifold	19	195	14