

Specifications (Cont'd)

Oxygen sensor heater	Resistance	at 20°C (68°F)	5.1 – 6.3 Ω	
EGR gas temp. sensor	Resistance		69 – 89 kΩ (50°C, 122°F) 11 – 15 kΩ (100°C, 212°F) 2 – 4 kΩ (150°C, 302°F)	
Fuel cut rpm	Fuel cut rpm	2WD A/T (stop light switch ON) Others	1,300 rpm 1,900 rpm	
	Fuel return rpm	2WD A/T (stop light switch ON) Others	1,000 rpm 1,600 rpm	
ECM (Voltage)	HINT:			
	<ul style="list-style-type: none"> Perform all voltage and resistance measurements with the ECM connected. Verify that the battery voltage is 11 V or above when the ignition switch is ON. The testing probes must not make contact with the ECM oxygen VF terminals. 			
	Terminals	STD voltage	Condition	
	BATT – E ₁	9 – 14	–	
	+B – E ₁		Ignition SW ON	
	+B ₁ – E ₁			
	IDL – E ₂ (E ₂₁)	9 – 14	Ignition SW ON	Throttle valve open
	Vcc – E ₂ (E ₂₁)	4.5 – 5.5		–
	VTA – E ₂ (E ₂₁)	0.3 – 0.8		Throttle valve fully closed
		3.2 – 4.9		Throttle valve fully open
	Vc – E ₂ (E ₂₁)	6 – 10	Ignition SW ON	–
	Vs – E ₂ (E ₂₁)	0.5 – 2.5		Measuring plate fully closed
		5 – 10		Measuring plate fully open
		2 – 8	Idling	
	THA – E ₂ (E ₂₁)	0.5 – 3.4	Ignition SW ON	Intake air temperature 20°C (68°F)
	THW – E ₂ (E ₂₁)	0.2 – 1.0		Coolant temperature 80°C (176°F)
	STA – E ₁	6 – 12	Ignition SW START position	
	No. 10 – E ₀₁ No. 20 – E ₀₂	9 – 14	Ignition SW ON	
	IGt – E ₁	0.7 – 1.0	Cranking or idling	
	W – E ₁	9 – 14	No trouble (MIL off) and engine running	
STJ – E ₁	6 – 12	Ignition SW START position	Coolant temperature 80°C (176°F)	
STP – E ₁	7.5 – 14	Stop light switch ON		

Specifications (Cont'd)

ECM (Resistance)	Terminals	Resistance (k Ω)	Condition
IDL - E ₂ (E ₂₁)		Infinity	Throttle valve open
		2.3 or less	Throttle valve fully closed
VTA - E ₂ (E ₂₁)		3.1 - 12.1	Throttle valve fully open
		0.47 - 6.1	Throttle valve fully closed
Vcc - E ₂ (E ₂₁)		3.9 - 9.0	—
THA - E ₂ (E ₂₁)		2 - 3	Intake air temperature 20 °C (68°F)
THW - E ₂ (E ₂₁)		0.2 - 0.4	Coolant temperature 80 °C (176°F)
+B - E ₂ (E ₂₁)		0.2 - 0.4	—
Vc - E ₂ (E ₂₁)		0.1 - 0.3	—
Vs - E ₂ (E ₂₁)		0.02 - 0.4	Measuring plate fully closed
		0.02 - 1.00	Measuring plate fully open
Ne - E ₁		0.185 - 0.275	Cold
		0.240 - 0.325	Hot
STJ - E ₁		Infinity	—
FPU - E ₁		Infinity	—
HT - E ₁		Infinity	—

V01955

TORQUE SPECIFICATIONS

EG127-01

Part tightened	N·m	kgf·cm	ft·lbf
Fuel hose x Fuel filter	30	310	22
Fuel hose x Fuel main tube	30	310	22
Fuel filter x Fuel filter bracket	19	195	14
Delivery pipe x Pressure regulator	30	300	22
Delivery pipe x Intake manifold	19	195	14
Delivery pipe x Fuel tube	44	450	33
Delivery pipe x Fuel pipe	19	195	14
Fuel pipe x Cold start injector	19	195	14
Air intake chamber x Cold start injector	7.8	80	69 in·lbf
Air intake chamber x Throttle body	19	195	14
Fuel pump	3.9	40	35 in·lbf
Fuel drain plug	6.4	65	56 in·lbf
Fuel tank x Body	29	300	22