TROUBLESHOOTING WITH VOLT OHMMETER

HINT:

- The following troubleshooting procedures are designed for inspection of each separate system, and therefore the actual procedure may vary somewhat. However, troubleshooting should be performed while referring to the inspection methods described in this manual.
- Before beginning inspection, it is best to first make a simple check of the fuses, H–fuses, fusible link and the condition of the connectors.
- The following troubleshooting procedures are based on the supposition that the trouble lies in either a short or open circuit within the computer.
- If engine trouble occurs even though proper operating voltage is detected in the computer connector, then it can be assumed that the PCME is faulty and should be replaced.

FUSES, H- FUSES AND FUSIBLE LINK LOCATION



EGOXT-01

FGOXII-01





SMPI SYSTEM CHECK PROCEDURE

- (a) Disconnect the connectors from the PCME.
- (b) Remove the locks as shown in the illustration so that the tester probe(s) can easily come in.
 NOTICE: Pay attention to sections 'A' and 'B' in the Illustration which can be easily broken.
- (c) Reconnect the connectors to the PCME.

HINT:

- Perform all voltage measurements with the connectors connected.
- Verify that the battery voltage is 11 V or more when the ignition switch is in the "ON" position.
 Using a voltmeter with high impedance (10 kΩ/V minimum), measure the voltage at each terminal of

the wiring connectors.

No.	Terminals		Condition	STD voltage (V)	See page
1	+ B + B1 - E1	IGS WON		9–14	EG1–296
2	BATT – E1	-		9–14	EG1–297
3	IDL – E2	IG SW ON	Throttle valve open	9–14	– EG1–298
	VC – E2		~	4.5–5.5	
	VTA – E2		Throttle valve fully closed (Throttle opener must be cancelled first)	0.3–0.8	
			Throttle valve fully open	3.2–4.9	
4	VC – E2		-	4.5–5.5	EG1–300
	VS – E2		Measuring plate fully closed	4.0–5.5	
			Measuring plate fully open	0.2–0.5	
		Idling		1.6–4.1	-
		3,000 rpm		1.0–2.0	
5	#1 #2 _ E01 #3 [_] E02 #4	IG SW ON		9–14	EG1–301
6	THA – E2 IG SW ON THW – E2		Intake air temp. 20°C (68°F)	0.5–3.4	EG1-302
7			Coolant temp. 80°C (176°F)	0.2–1.0	EG1-303
8	STA – E1	Cranking		6 or more	EG1-304
9	IGT – E1	Idling		Pulse generation	EG1–305
10	RSC RSO [–] E1	IG SW ON	PCME connectors disconnected	9–14	EG1-306
11	W – E1	No trouble ("CHECK" engine warning light off) and engine running		9–14	EG1 –307
10	PIM – E2	IG SW ON		2.5–4.5	– EG1–308
12	VC – E2			4.5–5.5	
13	AC – E1	IG SW ON	Air conditioning ON	9–14	EG1-309
PCN	I E Terminals	· //· ·/·			

PCME Wiring Connectors Voltage

വസ P ųρ qρ ហាហ സ וחו #2 RSORSC HT STJ EGR G2 NE IGF TPC TVIS STA AC SPD PS PSCT FPR PIM THW THA VS VC W STP ELS VF οх BAT E01 #1 TE2 KNK IDL VTA THG E2 FC IGT G1 G-ABS + B1 + B E02 #3 #4 E١ TE1

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Check that there is specified voltage between PCME terminals VF and							
body ground.							
NO VOK							
Check wiring between PCME ter	minal E1	ninal E1 and body ground.					
tок	-	BAD					
Try another PCME.	J	Repair or replace.					
Check for air suction into exhaust system	BAD	Repair air suction.					
l ок							
Check for air leak from air intake system.		Repair air leak.					
	BAD						
Check spark plugs.]	Repair or replace.					
I OK							
Check distributor and ignition system.]>	Repair or replace.					
OK	BAD						
Check fuel pressure.		Repair or replace.					
OK							
Check injectors.	J	Repair or replace.					
ОК	OK						
Check cold start injector	}₽	Repair or replace.					
OK	_						
Check air flow sensor.	}₽	Repair or replace.					
ТОК							
Check operation of oxygen sensor.	┠──►	System normal					
BAD							
Check wiring between oxygen sensor and PCME connectors.	BAD	Repair wiring.					
• ОК							
Replace oxygen sensor.		* Rich malfunction only					

