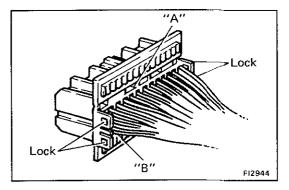
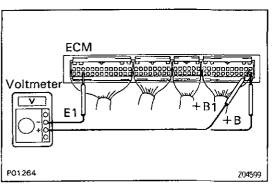
TROUBLESHOOTING W/VOLT,OHMMETER (A/T)

HINT:

EG0G8-03

- 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 links 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 ECU is faulty and should be replaced.





EFI SYSTEM CHECK PROCEDURE

EGOGA-03

PREPARATION

- (a) Disconnect the connectors from the ECU.
- (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 ECU.
- (d) Using a voltmeter with high impedance (10 k Ω /V minimum), measure the voltage at each terminal of the wiring connectors.

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 "ON" position.

ECU Terminals (For A/T)

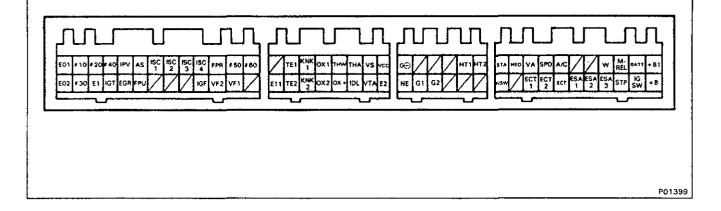
Symbol	Connection	Symbol	Connection	Symbol	Connection	
E01	POWER GROUND		_	HT2*	NO.2 HEATED OXYGEN SENSOR	
E02	POWER GROUND	E11	ECU GROUND		_	
#10	INJECTOR (No.1)	TE1	Check Connector	STA	NSW SWITCH	
# 30	INJECTOR (No.3)	TE2	Check Connector	NSW	IGNITION SWITCH	
# 20	INJECTOR (No.2)	KNK1	NO.1 KNOCK SENSOR	NEO	ECT ECU	
E1	ECU GROUND	KNK2	NO.2 KNOCK SENSOR		-	
#40	INJECTOR (No.4)	OX1	NO.1 OXYGEN SENSOR	VA	ECT ECU	
IGT	IGNITER	OX2*	NO.2 OXYGEN SENSOR	ECT1	ECT ECU	
IPV	VSV FOR EVAP	THW	WATER TEMP. SENSOR	SPD	VEHICLE SPEED SENSOR	
EGR*	VSV FOR EGR	OX +	OXYGEN SENSORS	ECT2	ECT ECU	
AS *	VSV FOR AS	THA	AIR FLOW METER	A/C	A/C AMPLIFIE	
FPU	VSV FOR FUEL PRESSURE CONTROL	IDL	TP SENSOR	ECT	ECT ECU	
ISC1	ISC VALVE (No.1 Motor Coil)	vs	AIR FLOW METER		_	
		VTA	TP SENSOR	ESA1	ECT ECU	
ISC2	ISC VALVE (No.2 Motor Coil)	vcc	TP SENSOR			
	-	E2	SENSOR GROUND	ESA2	ECT ECU	
ISC3	ISC VALVE (No.3 Motor Coil)	G 🗇	DISTRIBUTOR	w	"CHECK" ENGINE WARNING LIGHT	
	_	NE	DISTRIBUTOR	ESA3	ECT ECU	
ISC4	ISC VALVE (No.4 Motor Coil)		_	M-REL	EFI MAIN RELAY (COIL)	
IGF	IGNITER	G1	DISTRIBUTOR	STP	STOP LIGHT SWITCH	
FPR	FUEL PUMP RELAY			BATT	BATTERY B+	
VF2	Check Connector	G2	DISTRIBUTOR	IGSW	IGNITION SWITCH	
# 50	INJECTOR (No.5)		-	+B1	EFI MAIN RELAY	
VF1	Check Connector		_	+B	EFI MAIN RELAY	
# 60	INJECTOR (No.6)	HT1	NO.1 OXYGEN SENSOR	*Only fo	*Only for Europe.	
ECU Terminals E01 # 10 # 20 # 40 #PV AS SC ISC IS						

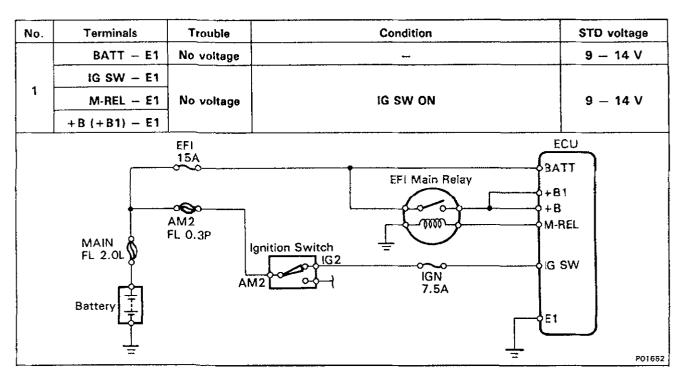
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ECU Wiring Connectors Voltage (For A/T)

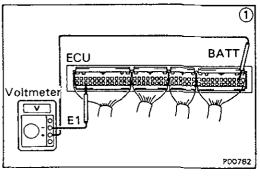
No.	Terminals		Condition	STD voltage (V)	See page	
	BATT E1		-		EG-203	
1	IG SW E1					
	M-REL — E1	IG SW ON		9 — 14		
	+B +B1 - E1	10 000 010				
	IDL — E2		Throttle valve open	9 - 14		
2	VCC - E2		_	4.5 - 5.5	EG-204	
	VTA — E2	IG SW ON	Throttle valve fully closed (Throttle opener must be cancelled first)	0.3 - 0.8		
			Throttle valve fully open	3.2 - 4.9		
	VCC - E2		_	4.5 - 5.5		
3	VS — E2		Measuring plate fully closed	3.5 — 4.5	EG-208	
			Measuring plate fully open	0.2 - 0.5		
		Idling		1.2 - 2.4		
		3,000 rpm		0.8 - 1.3		
4	#10	IG SW ON		9 – 14	EG-209	
5	THA — E2	IC CIAL ON	Intake air temp. 20°C (68°F)	0.5 - 3.4	EG-210	
6	THW — E2	IG SW ON	Engine coolant temp. 80°C (176°F)	0.2 - 1.0	EG-211	
7	STA - E1	Cranking		6 or more	EG-212	
8	IGT — E1	Idling		Pulse generation	EG-213	
9	ISC1 } — E1 ISC4	IG SW ON		9 — 14	EG-214	
10	W — E1	No trouble (malfunction indicator lamp light off) and engine running 9 - 14			EG-215	

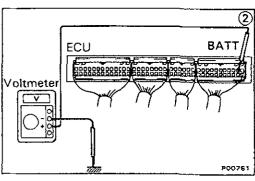
ECM Terminals

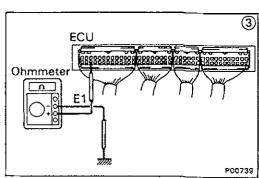




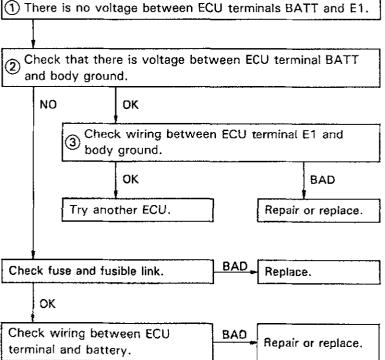


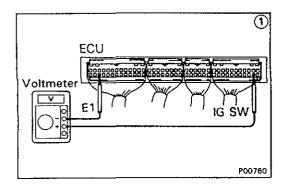


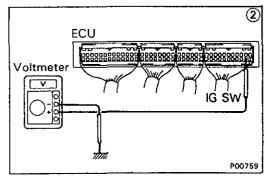


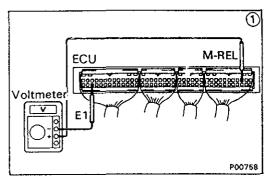


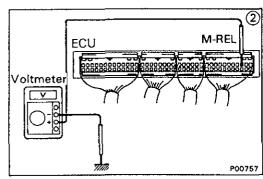
• BATT — E1



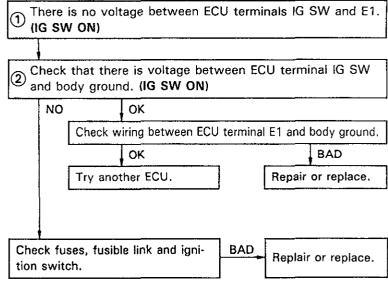




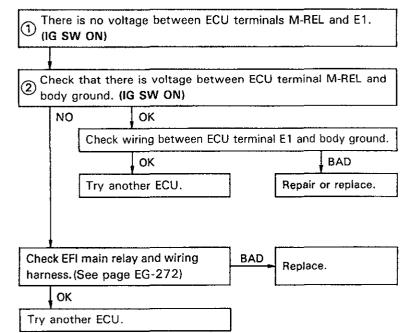


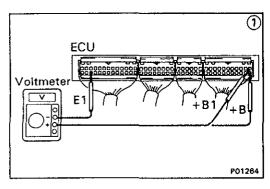


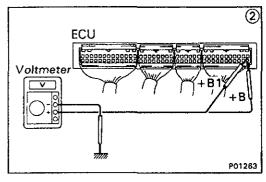
• 1G SW - E1

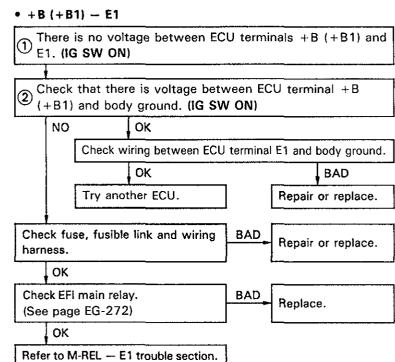


• M-REL - E1

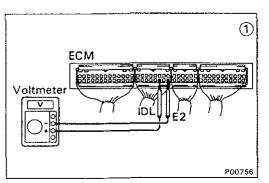


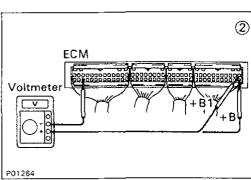


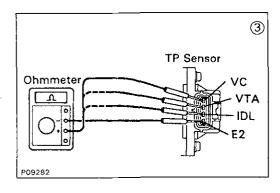


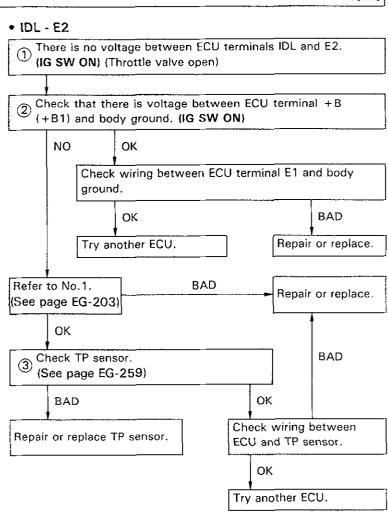


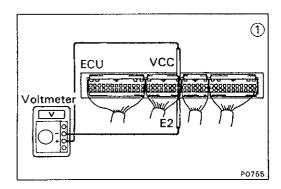
No.	Terminals	Trouble	Condition		STD voltage
2	IDL – E2			Throttle valve open	9 — 14 V
	VCC - E2			_	4.5 — 5.5 V
	VTA – E2	No voltage	IG SW ON	Throttle valve fully closed (Throttle opener must be cancelled first)	0.3 - 0.8 V
				Throttle valve fully open	3.2 – 4.9 V
			2 DL VTA C	ECU (+B1) (E21) (E21) IDL VTA VCC E1	

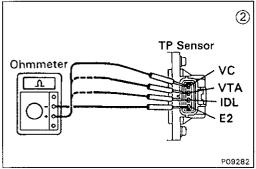


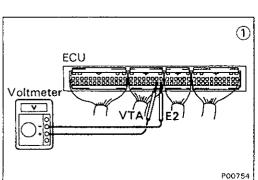


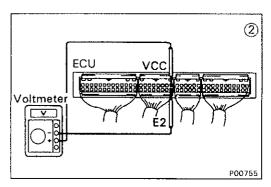


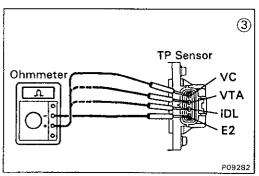




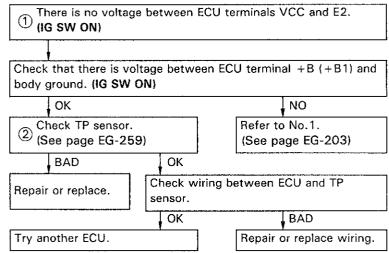




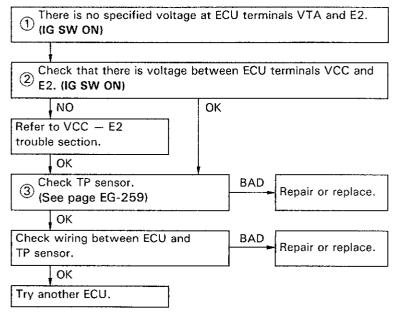




• VC - E2



• VTA - E2



No.	Terminals	Trouble	Condition		STD voltage
	VCC — E2			-	4.5 — 5.5 V
	VS — E2		IG SW ON	Measuring plate fully closed	3.5 — 4.5 V
3	VS — E2	No voltage		Measuring plate fully open	0.2 - 0.5 V
	VS — E2		ldling		1.2 – 2.4 V
	VS E2		3,000 rpm		0.8 - 1.3 V

