

TROUBLESHOOTING WITH VOLT OHMMETER

PREPARATION FOR TROUBLESHOOTING

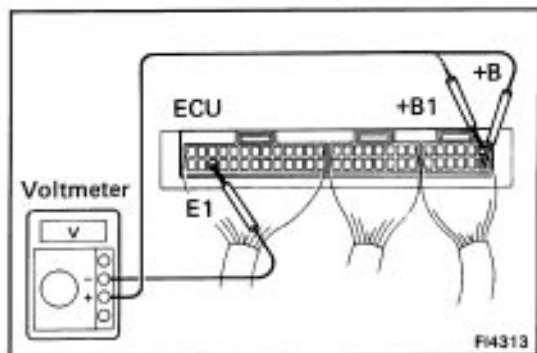
1. Remove the ECU cover under the center console.
2. Remove the ECU with the wire harness.

EFI SYSTEM CHECK PROCEDURE

HINT:

1. The EFI circuit can be checked by measuring the resistance and the voltage at the wiring connectors of the ECU.
2. Perform all voltage measurements with the connectors connected.
3. Verify that the battery voltage is 11 V or above when the ignition switch is ON.

Using a voltmeter with high impedance (10 k Ω /V minimum), measure the voltage at each terminal of the wiring connectors. HINT: If there is any problem, see TROUBLESHOOTING FOR EFI ELECTRONIC CIRCUIT WITH VOLT/OHMMETER.

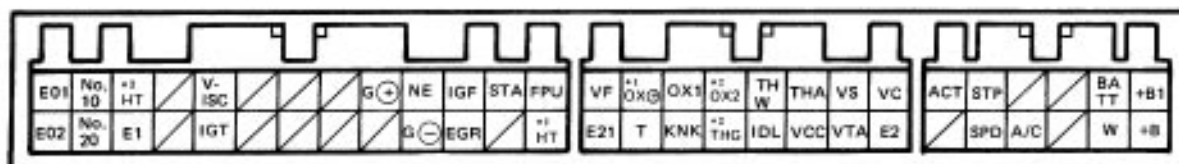


Terminals of ECU

Symbol	Terminal	Symbol	Terminal	Symbol	Terminal
E01	Engine ground (Power)	NE	Engine revolution sensor	THA	Intake air temp. sensor
E02	Engine ground (Power)	G⊖	Engine revolution sensor	VCC	Throttle position sensor
No.10	Injector	IGF	Igniter	VS	Air flow meter
No.20	Injector	EGR	VSV (EGR)	VTA	Throttle position sensor
*2HT	Oxygen sensor heater	STA	Starter switch	VC	Air flow meter
E1	Engine ground	—	—	E2	Sensor ground
—	—	FPU	VSV (Fuel pressure control)	ACT	A/C amplifier
—	—	*1HT	Oxygen sensor heater	—	—
V-ISC	VSV (idle-up)	VF	Check connector	STP	Stop light switch
IGT	Igniter	E21	Sensor ground	SPD	Speedometer sensor
—	—	*1OX⊕	Oxygen sensor	—	—
—	—	T	Check connector	A/C	A/C magnet clutch
—	—	OX1	Main oxygen sensor	—	—
—	—	KNK	Knock sensor	—	—
—	—	*2OX2	Sub-oxygen sensor	BATT	Battery
—	—	*2THG	EGR gas temp. sensor	W	Warning light
G⊕	Engine revolution sensor	THW	Water temperature sensor	+B1	EFI main relay
—	—	IDL	Throttle position sensor	+B	EFI main relay

ECU Terminals

*1 : Federal and Canada, *2 : California



Voltage at ECU wiring connectors

No.	Terminals	STD voltage (V)	Condition		See page
1	+B +B1 - E1	10 - 14	Ignition switch ON		FI-114
2	BATT - E1	10 - 14			FI-115
3	IDL - E2	10 - 14	Ignition switch ON	Throttle valve open	FI-116
	VTA - E2	0.1 - 1.0		Throttle valve fully closed	
		4 - 5		Throttle valve fully open	
	VCC - E2	4 - 6		—	
4	+B1 - E2	10 - 14	Ignition switch ON	—	FI-118
	VC - E2	6 - 10			
	VS - E2	2 - 5.5		Measuring plate fully closed	
		6 - 9		Measuring plate fully open	
		2 - 8	Idling		
5	No.10 - E01 No.20 - E02	10 - 14	Ignition switch ON		FI-119
6	W - E1	10 - 14	No trouble ("CHECK ENGINE" warning light off) and engine running		FI-120
7	THA - E2	1 - 3	Ignition switch ON	Intake air temperature 20°C (68°F)	FI-121
8	THW - E2	0.1 - 1.0	Ignition switch ON	Coolant temperature 80°C (176°F)	FI-122
9	STA - E1	6 - 14	Cranking		FI-123
10	IGT - E1	0.7 - 1.0	Idling		FI-124
11	A/C - E1	5 - 14	Air conditioning ON		FI-125

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