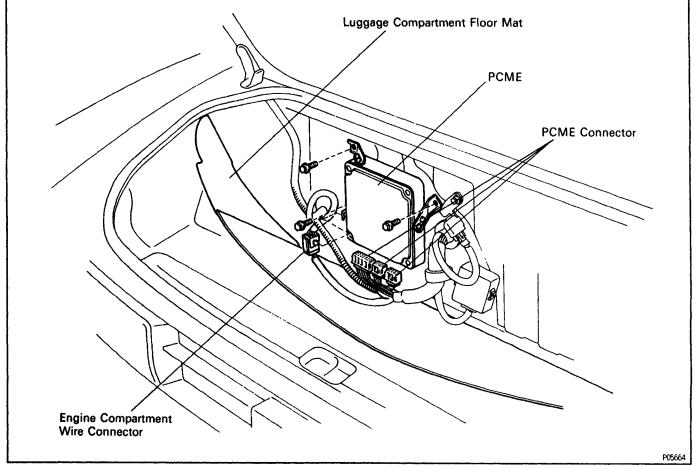
POWERTRAIN CONTROL MODULE ENGINE (PCME) PCME FOR REMOVAL AND



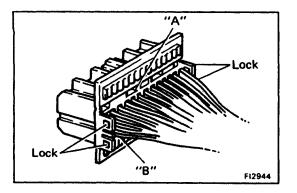
PCME INSPECTION

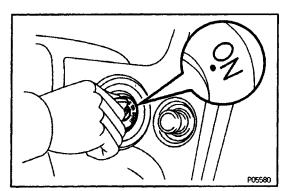
EG029 - 01

(See Components for Removal and Installation)

HINT: The SMPI circuit can be checked by measuring the resistance and voltage at the wiring connectors of the PCM E.

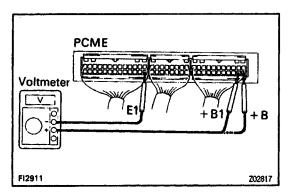
- 1. DISCONNECT FRONT SIDE OF LUGGAGE COMPARTMENT FLOOR MAT FROM PARTITION PANEL
- 2. PREPARATION
- (a) Disconnect the three connectors from the PCME.
- (b) Remove the locks as shown in the illustration so that the tester probe(s) can easily come in.
 NOTICE: Pay attention to sections A and B in the illus– tration which can easily broken.
- (c) Reconnect the three connectors to the PCME.





3. INSPECT VOLTAGE OF PCME

(a) Turn the ignition switch ON.



(b) Measure the voltage between each terminal of the wiring connectors.HINT:

• Perform all voltage measurements with the connectors connected.

• Verify that the battery voltage is 1 1 V or more when the ignition switch is ON.

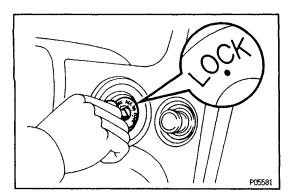
Voltage at PCME Wiring Connectors

Terminals		STD voltage (V)						
+ B + B1 - E1	IG SW ON	9 – 14						
BATT – E1			9 14					
IDL – E2		Throttle valve open	9 - 14					
VTA – E2		Throttle valve fully closed (Throttle opener must be cancelled first)	0.3 – 0.8					
	IG SW ON		3.2 - 4.9					
VC – E2		Throttle valve fully open	4.5 - 5.5					
		Measuring plate fully closed	4.0 - 5.5					
VS – E2		Measuring plate fully open	0.2 - 0.5					
	Idling	Idling						
	3,000 rpm	1.0 - 2.0						
#1 #2 _ E01 #3 [_] E02 #4	IG SW ON	S SW ON Throttle valve fully closed (Throttle opener must be cancelled first)						
THA – E2	IG SW ON	Intake air temp. 20°C (68°F)	0.5 - 3.4					
THW – E2		Coolant temp. 80°C (176°F)	0.2 - 1.0					
STA – E1	Cranking		6 V or more					
IGT – E1	Idling		Pulse generation					
RSC – E1 RSO [–] E1	IG SW ON	PCME connectors disconnected	9 – 14					
W – E1	Ne trouble ("CH	ECK" engine warning light off) and engine running	9 – 14					
PIM – E2	IG SW ON		2.5 – 4.5					
AC – E1		Air conditioning ON	9 – 14					
*1TVIS – E1	IG SW ON	Throttle valve fully closed (Throttle opener must be cancelled first)	2.0 or less					
		Throttle valve open	9 - 14					
* ² TVIS – E1	Idling	2.0 or less						
	4,200 rpm or mc	9 – 14						
TE1 - E1	IG SW ON	DLC1 TE1–E1 Not connected	9 – 14					
		DLC1 TE1–E1 connected	0.5 or less					

*²w/ Premium Gasoline

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E01	1	#1	#2	RSO	RSC	нт	STJ	EGR	G2	NE	IGF	TPCTV	IS	VF	\square	οх	РІМ	тнw	THA	٧S	VC.	STA	AC	SPD	PS	PSCT	FPR	w	STP	\square	ELS	BATT
E02	2 #	¥3	#4	\lor	\square	Ζ	IGT	\square	G1	G-	Ζ	E	1	\square	TE1	TE2	KNK	IDL	VTA	THG	E2	\square			Z	\square	\square		ABS	FC	+ B1	+ B

FI2796



PCME Wiring

Ohmmeter

F15361

F12796

IDL

Z02823

4. INSPECT RESISTANCE OF PCME

- (a) Turn the ignition switch OFF.
- (b) Disconnect the three connectors from the PCME.

(c) Measure the resistance between each terminal of the wiring connectors.
NOTICE:

• Do not touch the PCME terminals.

• The tester probe should be inserted in the wiring connector from the wiring side.

Resistance of PCME Wiring Connectors

Terminals	Condition	STD resistance (Ω)					
	Throttle valve open	Infinity					
IDL – E2	Throttle valve fully closed (Throttle opener must be cancelled first)	2,300 or less					
	Throttle valve fully open	2,000 - 10,200					
VTA – E2	Throttle valve fully closed (Throttle opener must be cancelled first)	200 - 5,700					
VC – E2	Measuring plate fully closed	2,500 – 5,900					
VS – E2		200 - 600					
V0 - L2	Measuring plate fully open	20 – 1,200					
THA – E2	Intake air temp. 20°C (68°F)	2,000 - 3,000					
THW – E2	Coolant temp. 80°C (176°F)	200 - 400					
G1 - G-	Cold (–10°C (14°F) to 50°C (104°F))	125 – 200					
G2	Hot (50°C (104°F) to 1 00°C (2127))	160 – 235					
NE G	Cold (–10°C (14°F) to 50°C (104°F)N	155 – 250					
	Hot (50°C (104°F) to 100°C (212°F))	190 – 290					
RSC + B RSO + B1		17.7 – 23.9					
CM E Terminals							
E01 #1 #2 RSO RSC HT S1		STA AC SPD PS PSCT FPR W STP ELS BATT					
E02 #3 #4	T GI G- EI TEI TEZ KNK IDL VTA THG EZ	ABS FC + B1 + B					

V00999