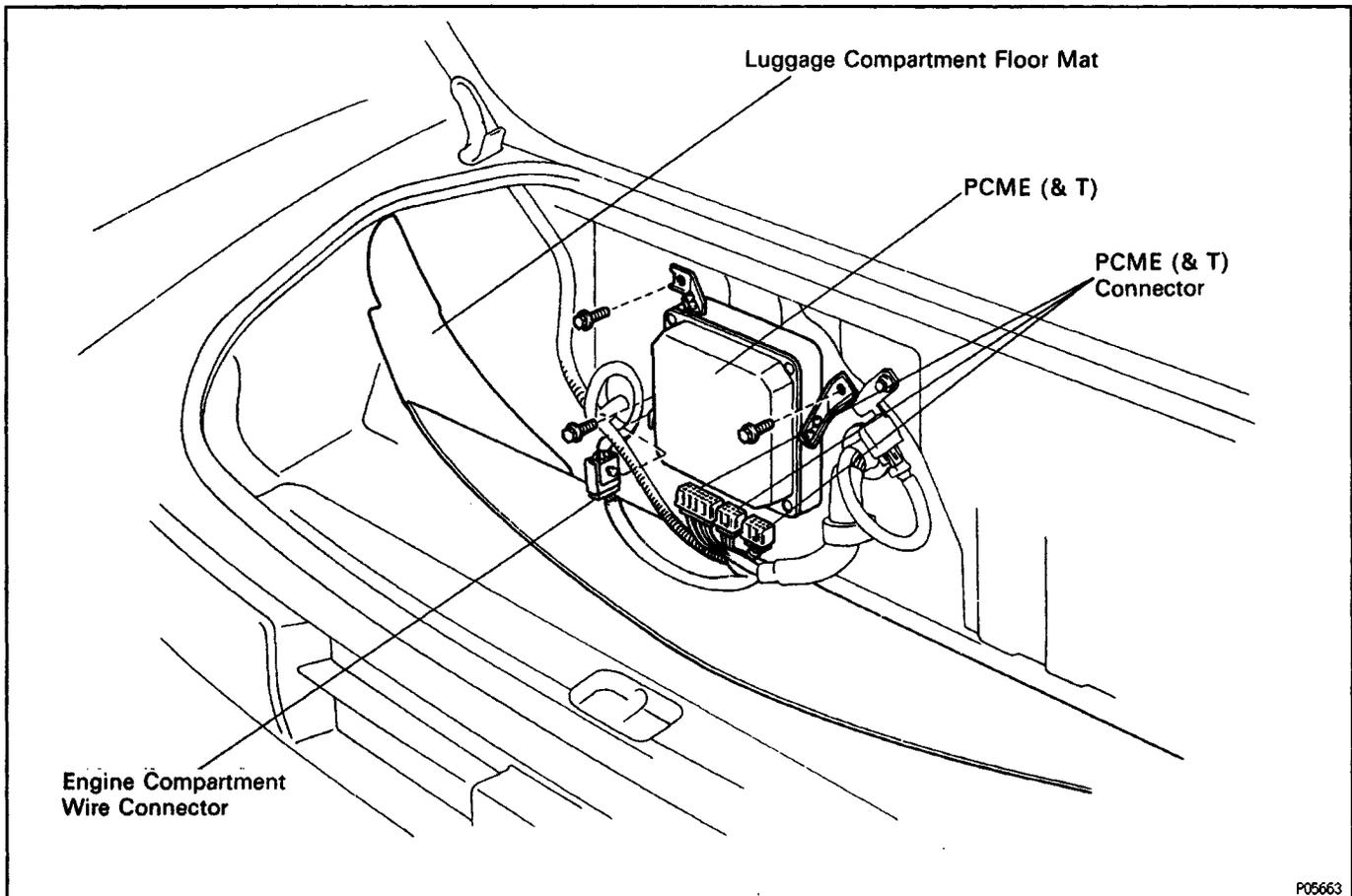


POWERTRAIN CONTROL MODULE ENGINE (& ECT) (PCME (& T))

PCME (& T) FOR REMOVAL AND INSTALLATION

EG02B-03

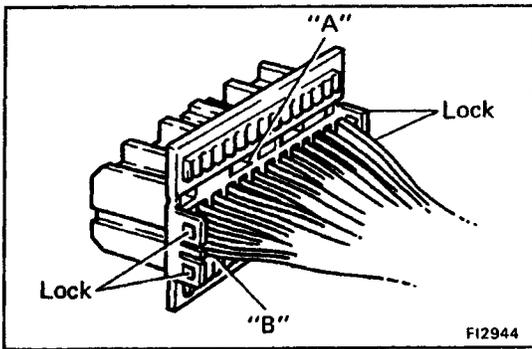


PCME INSPECTION

(See Components for Removal and Installation)

HINT: The MPI circuit can be checked by measuring the resistance and voltage at the wiring connectors of the PCME (& T).

1. DISCONNECT FRONT SIDE OF LUGGAGE COMPARTMENT FLOOR MAT FROM PARTITION PANEL

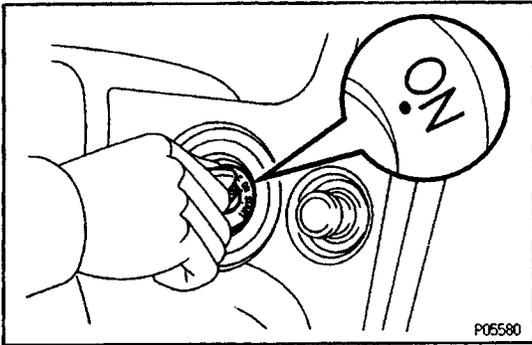


2. PREPARATION

- (a) Disconnect the three connectors from the PCME (&T).
- (b) Remove the locks as shown in the illustration so that the tester probe(s) can easily come in.

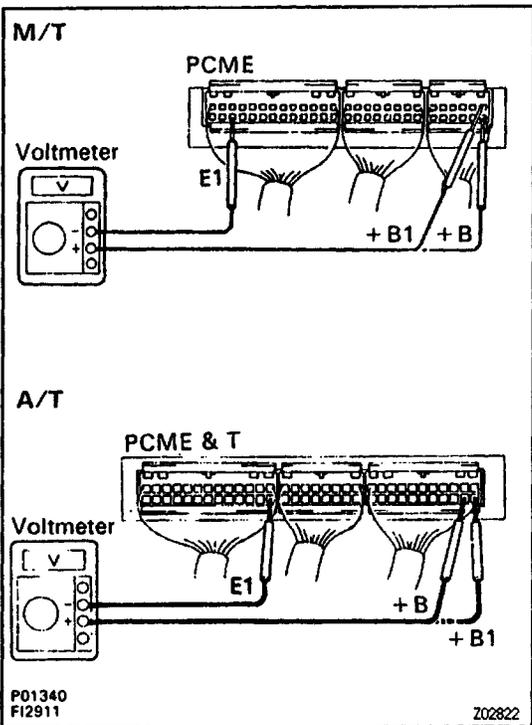
NOTICE: Pay attention to sections A and B in the illustration which can easily broken.

- (c) Reconnect the three connectors to the PCME (& T).



3. INSPECT VOLTAGE OF PCME (& T)

- (a) Turn the ignition switch ON.



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

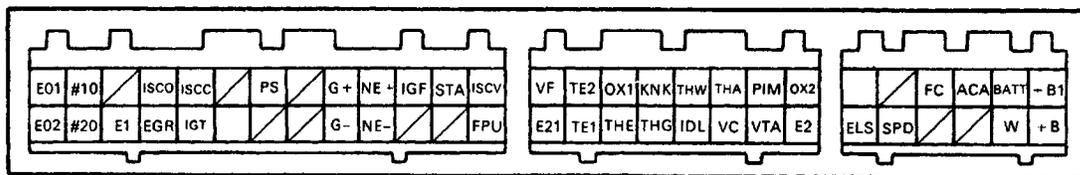
HINT:

- Perform all voltage measurements with the connectors connected.
- Verify that the battery voltage is 11 V or more when the ignition switch is ON.

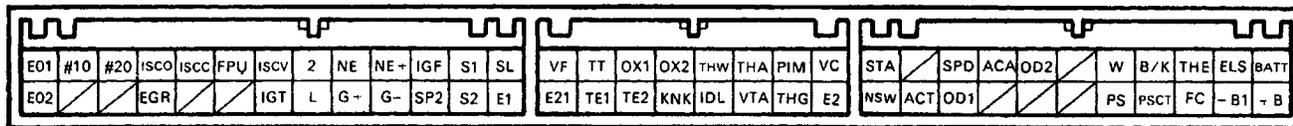
Voltage at PCME (& T) Wiring Connectors

Terminals	Condition		STD voltage (V)
+B +B1 - E1	IG SW ON		9 - 14
BATT - E1	-		9 - 14
IDL - E2	IG SW ON	Throttle valve open	9 - 14
VTA - E2		Throttle valve fully closed (Throttle opener must be cancelled first)	0.3 - 0.8
		Throttle valve fully open	3.2 - 4.9
PIM - E2	IG SW ON		3.3 - 3.9
VC - E2			4.5 - 5.5
#10 E01 #20 E02			9 - 14
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 or more
IGT - E1	Idling		Pluse generation
ISCO - E1	IG SW ON		9 - 14
W - E1	No trouble ("CHECK" engine warning light off) and engine running		9 - 14
ACA - E1	IG SW ON	Air conditioning ON	0 - 3
ACT - E1		Air conditioning ON	4.5 - 5.5
T - E1		DLC1 TE1 - E1 not connected	9 - 14
		DLC1 TE1 - E1 connected	0 - 3
NSW - E1 (A/T only)		Park/neutral switch P or N range	0 - 3
		Ex. Park/neutral switch P or N range	9 - 14
B/K - E1	Stop light SW ON (Brake pedal depressed)		7.5 - 14

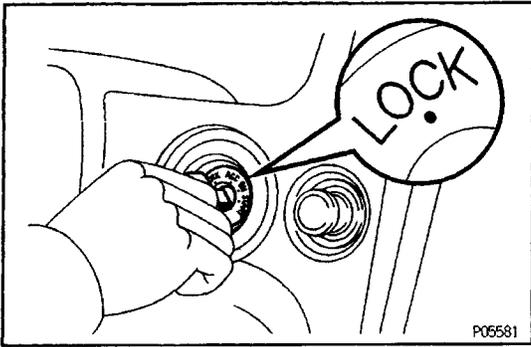
PCME Terminals (M/T)



PCM E & T Terminals (A/T)

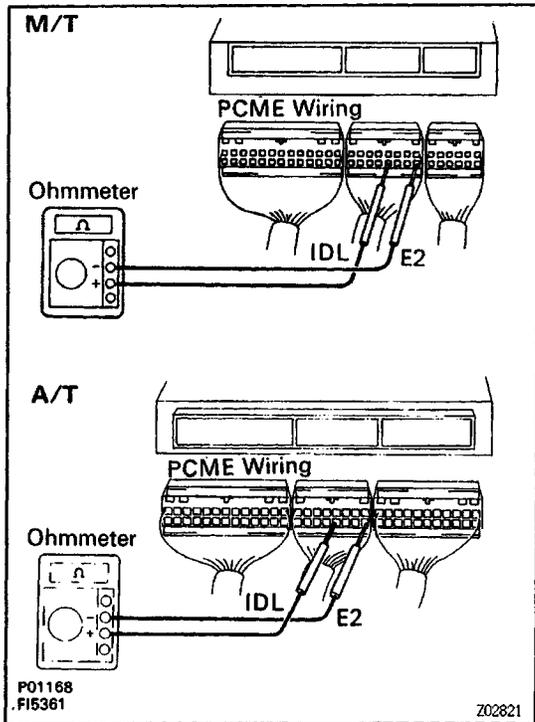


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4. INSPECT RESISTANCE OF PCME (& T)

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



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

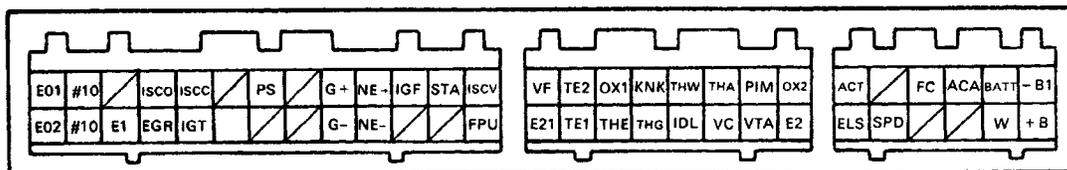
NOTICE:

- Do not touch the PCME (& T) terminals.
- The tester probe should be inserted in the wiring connector from the wiring side.

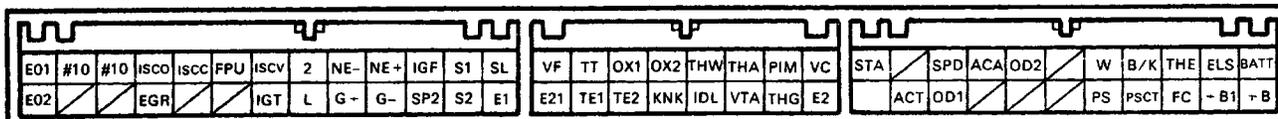
Resistance of PCME (& T) Wiring Connectors

Terminals	Condition	STD resistance (Ω)
IDL - E2	Throttle valve open	Infinity
	Throttle valve fully closed (Throttle opener must be cancelled first)	2,300 or less
VTA - E2	Throttle valve fully open	2,000 - 10,200
	Throttle valve fully closed (Throttle opener must be cancelled first)	200 - 5,700
VC - E2	-	2,500 - 5,900
THA - E2	Intake air temp. 20°C (68°F)	2,000 - 3,000
THW - E2	Coolant temp. 80°C (176°F)	200 - 400
G+ - G-	Cold (-10°C (14°F) to 50°C (104°F))	185 - 275
	Hot (50°C (104°F) to 100°C (212°F))	240 - 325
NE+ - NE-	Cold (-10°C (14°F) to 50°C (104°F))	370 - 550
	Hot (50°C (104°F) to 100°C (212°F))	475 - 650
ISCC ⁺ + B ISCO ⁻ + B1	-	19.3 - 22.3

PCM E Terminals (M/T)



PCM E & T Terminals (A/T)



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