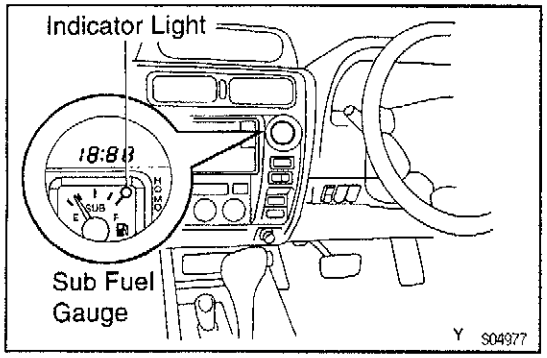


DOUBLE TANK SYSTEM

INDICATOR LIGHT LIGHT CHECK

EG78A-04

1. The indicator light will come on when the ignition switch is at ON and the engine is not running.
2. When the engine is started, the indicator light should go off (in case that the fuel tank changeover switch is off). If the light blinks on, the double tank system has detected a malfunction or abnormality in the system.

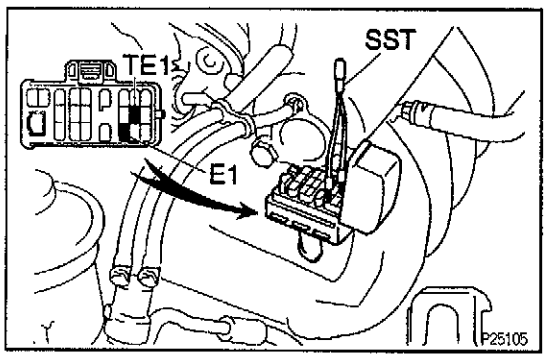
EG

DIAGNOSTIC TROUBLE CODES OUTPUT

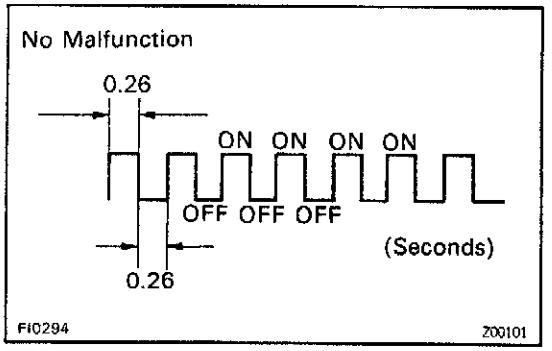
EG7DU-01

To obtain an output of diagnostic trouble codes, proceed as follows:

1. Initial conditions
(a) Battery voltage 11 V or more
(b) Accessories switched OFF
2. Turn the ignition switch ON.
CAUTION: Do not start the engine.

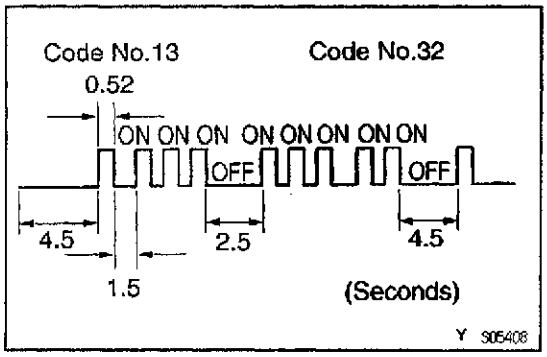


3. Using SST, connect terminals TE1 and E1 of the check connector.
SST 09843–18020
4. Read the diagnostic trouble code as indicated by the number of flashes of the check engine warning light.



Diagnostic trouble Codes

(a) Normal System Operation (no malfunction)
- The light will alternately blink ON and OFF at 0.26 second intervals.



EG

(b) Malfunction Code Indication

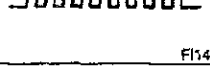
- In the event of a malfunction, the light will blink every 0.52 seconds. The 1st number of blinks will equal the 1st digit of a 2 digit diagnostic trouble code, and after a 1.5 second pause, the 2nd number of blinks will equal the second digit. If there are 2 or more codes, there will be a 2.5 second pause between each code.
- After all the codes have been output, there will be a 4.5 second pause and they will all be repeated as long the terminals TE1 and E1 of the check connector are connected.

HINT: In the event of a number of trouble codes, indication will begin from the smaller value and continue to the larger.

DIAGNOSTIC TROUBLE CODES

HINT:

- If a malfunction is detected during the diagnostic trouble code check, refer to the circuit indicated in the table, and turn to the corresponding page.
- Your readings may vary from the parameters listed in the table, depending on the instruments used.
- To memorize the following codes after the engine has started and abnormal condition (any failure) has occured when 6 seconds and more have been passed.

Code No.	Number of Blinks of Fuel Level Indicator Light	Diagnosis	Trouble Area
—	 FI1401	Normal.	—
11	 S04177	• When fuel tank changeover switch in "OFF". • Circuit opening relay in always "OFF" or fuel tank select relays contacts are not conducted or wire harness of main fuel pump is open.	• Circuit opening relay or fuel tank select relay or main fuel pump wire harnese system
13	 FI1607	• When fuel tank changeover switch in "OFF". • Fuel tank select relay in always "ON".	• Fuel tank select relay

Y V08121

Code No.	Number of Blinks of Fuel Level Indicator Light	Diagnosis	Truble Area
23	 S04178	• When fuel tank changeover switch in "OFF". • Sub fuel tank forcing driving relay in always "ON" or sub fuel pump wire harnese is short to power subly line.	• Sub fuel pump wire harnese system
32	 S04179	• When fuel tank changeover switch in "ON". • Circuit opening relay in always "OFF" or fuel tank select relay contacts are not conducted or sub fuel pump wire harnese is open.	• Circuit opening relay or fuel tank select relay or sub fuel pump wire harnese system
33	 BE3933	• When fuel tank changeover switch in "ON". • Wire harnese between changeover switch and fuel tank solenoid return valve is open.	• Fuel tank solenoid return valve wire harnese system
42	 FI1615	• When fuel tank changeover switch in "ON". • Fuel tank select relay will not changeover.	• Fuel tank select relay • Fuel tank select relay wire harnese system
44	 S04180	• When fuel tank changeover switch in "ON". • Main fuel pump wire harnese is short to power subly line.	• Main fuel pump wire harnese system

Y V08122

TROUBLESHOOTING w/ VOLT, OHMMETER

EG00V-05

HINT:

- Before beginning inspection, it is best to first make a simple check of the fuses, M—fuses, H—fuse 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.

Engine (& ECT) ECU Terminals

EG79D-01

(See EFI system check procedure in Troubleshooting w/volt,Ohmmeter.)

EG79E-01

Engine (& ECT) ECU Terminals

(See engine (& ECT) ECU terminals in Troubleshooting w/volt, Ohmmeter.)

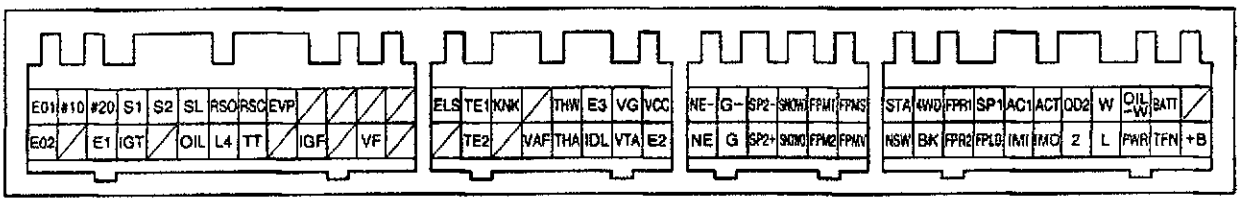
EG67D-07

Engine (& ECT) ECU Wiring Connectors Voltage

EG

Terminals	Condition			STD voltage (V)
FPMV - E01	Fuel tank changeover switch		is ON	9 - 14
			is OFF	0 - 2
FPMS - E01	Idling			9 - 14
FPR2 - E01	Idling			9 - 14
FPM1 - E01	Idling	Fuel tank changeover switch	is ON	9 - 14
			is OFF	0 - 2
FPM2 - E01	Idling	Fuel tank changeover switch	is ON	9 - 14
			is OFF	0 - 2
FPR1 - E01	Idling			0 - 2
FPLD - E01	Idling	Fuel tank changeover switch	is ON	9 - 14
			is OFF	0 - 3

ECU Terminals



S01399

V06103