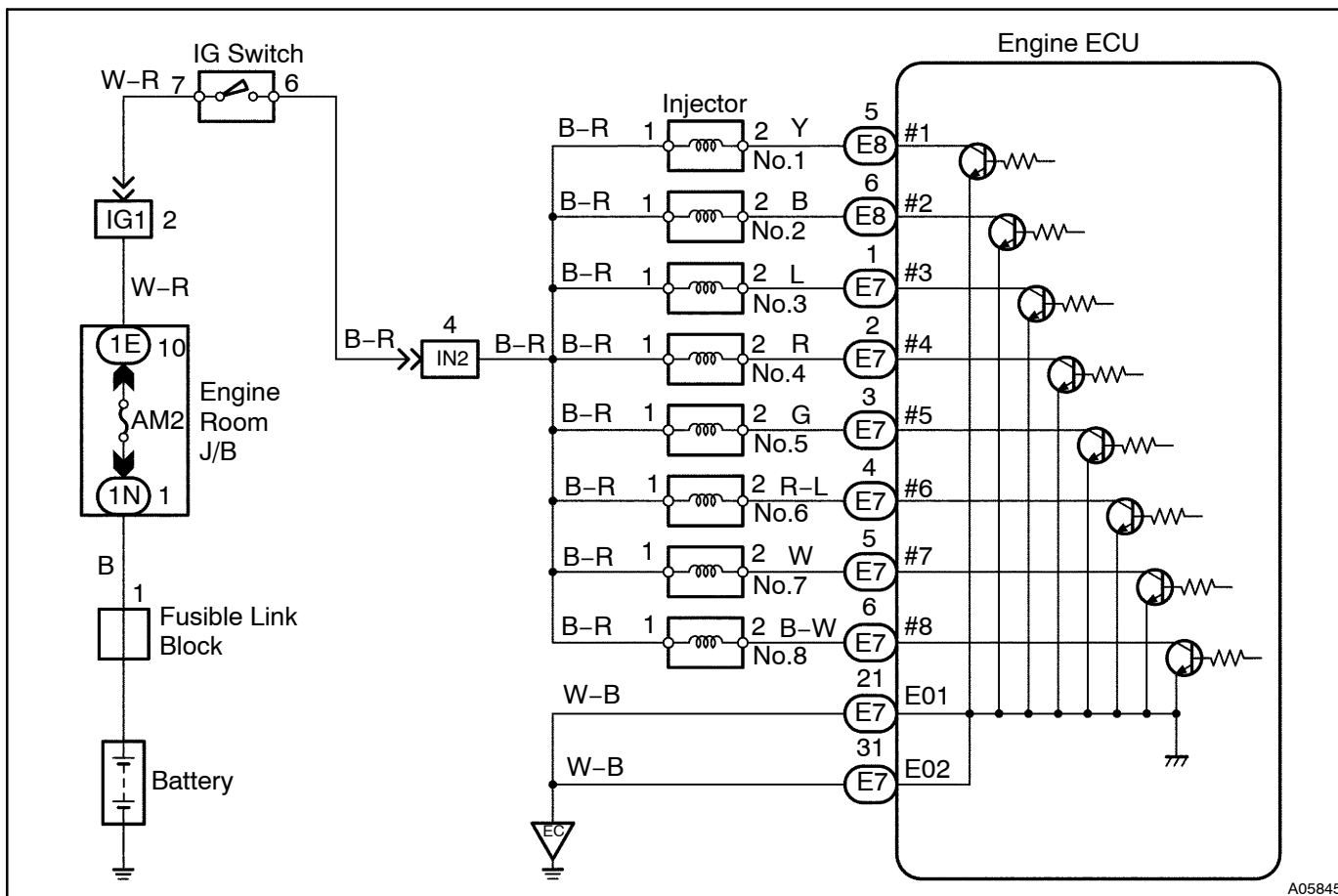


## Injector Circuit

### CIRCUIT DESCRIPTION

The injectors are provided to the intake manifold. They inject fuel into the cylinders based on the signals from engine ECU.

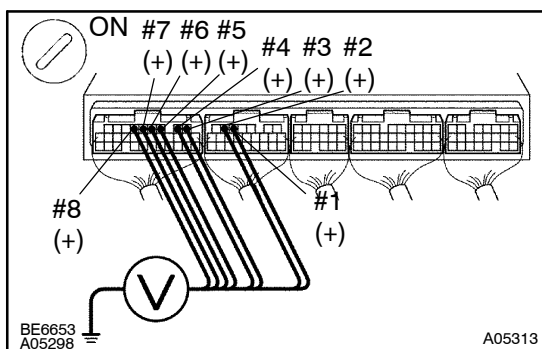
### WIRING DIAGRAM



A05845

### INSPECTION PROCEDURE

- 1 Check voltage of engine ECU terminal for injector of failed cylinder.



#### PREPARATION:

- Remove the glove compartment door.
- Turn the ignition switch ON.

#### CHECK:

Measure voltage between applicable terminal of the engine ECU connector and body ground.

#### OK:

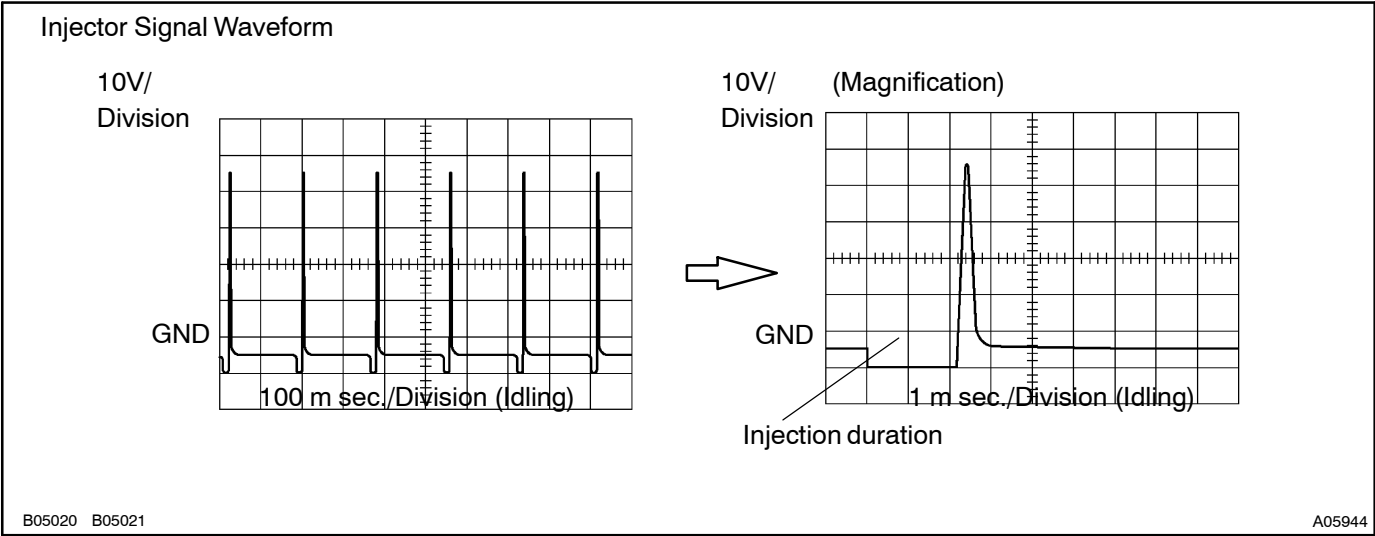
**Voltage: 9 - 14 V**

**Reference INSPECTION USING OSCILLOSCOPE**

With the engine idling, measure between terminals #1 ~ #8 and E01 of the engine ECU connector.

HINT:

The correct waveforms are as shown.



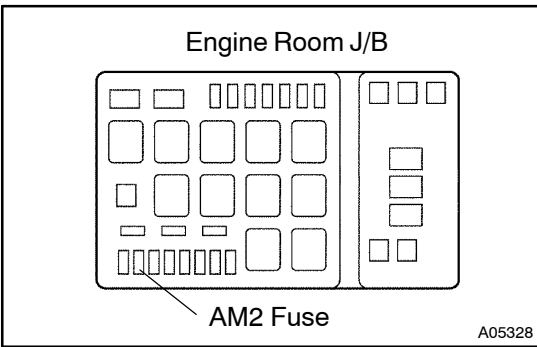
OK

Go to step 4.

NG

2

**Check AM2 fuse.**



**PREPARATION:**

Remove the AM2 fuse from the engine room J/B.

**CHECK:**

Check continuity of the AM2 fuse.

**OK:**

Continuity

NG

Check for short in harness and all components connected to AM2 fuse.

OK

**3** Check resistance of injectors ([See page FI-24](#)).

NG

Replace injector.

OK

Check and repair harness and connector between engine ECU and battery.

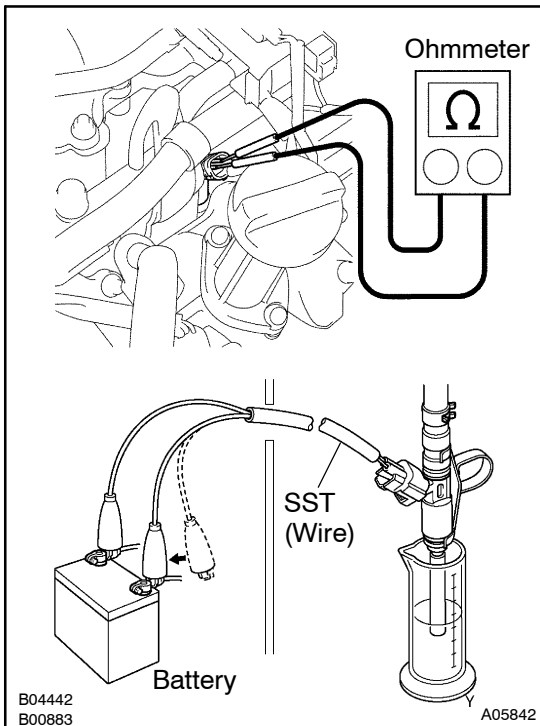
**4** Check for open in harness and connector between terminal E01 – E03 of engine ECU connector and body ground ([See page N-19](#)).

NG

Repair or replace harness or connector.

OK

## 5 Check injectors.



### **PREPARATION:**

Disconnect the injector connectors.

### **CHECK:**

Measure resistance of the injectors.

### **OK:**

**Resistance: 13.4 – 14.2  $\Omega$  at 20°C (68°F)**

### **CHECK:**

Check injection volume of the injectors.

### **OK:**

**Injection volume:**

**56 – 69 cm<sup>3</sup> (3.4 – 4.2 cu in.)/15 sec.**

**Difference between each injector:**

**Less than 13 cm<sup>3</sup> (0.8 cu in.)**

**Leakage**

**Fuel drop: One drop or less per 12 minutes**

**OK**

**Proceed to next circuit inspection shown on problem symptoms table (See page DI-25).**

**NG**

**Replace injector(s).**