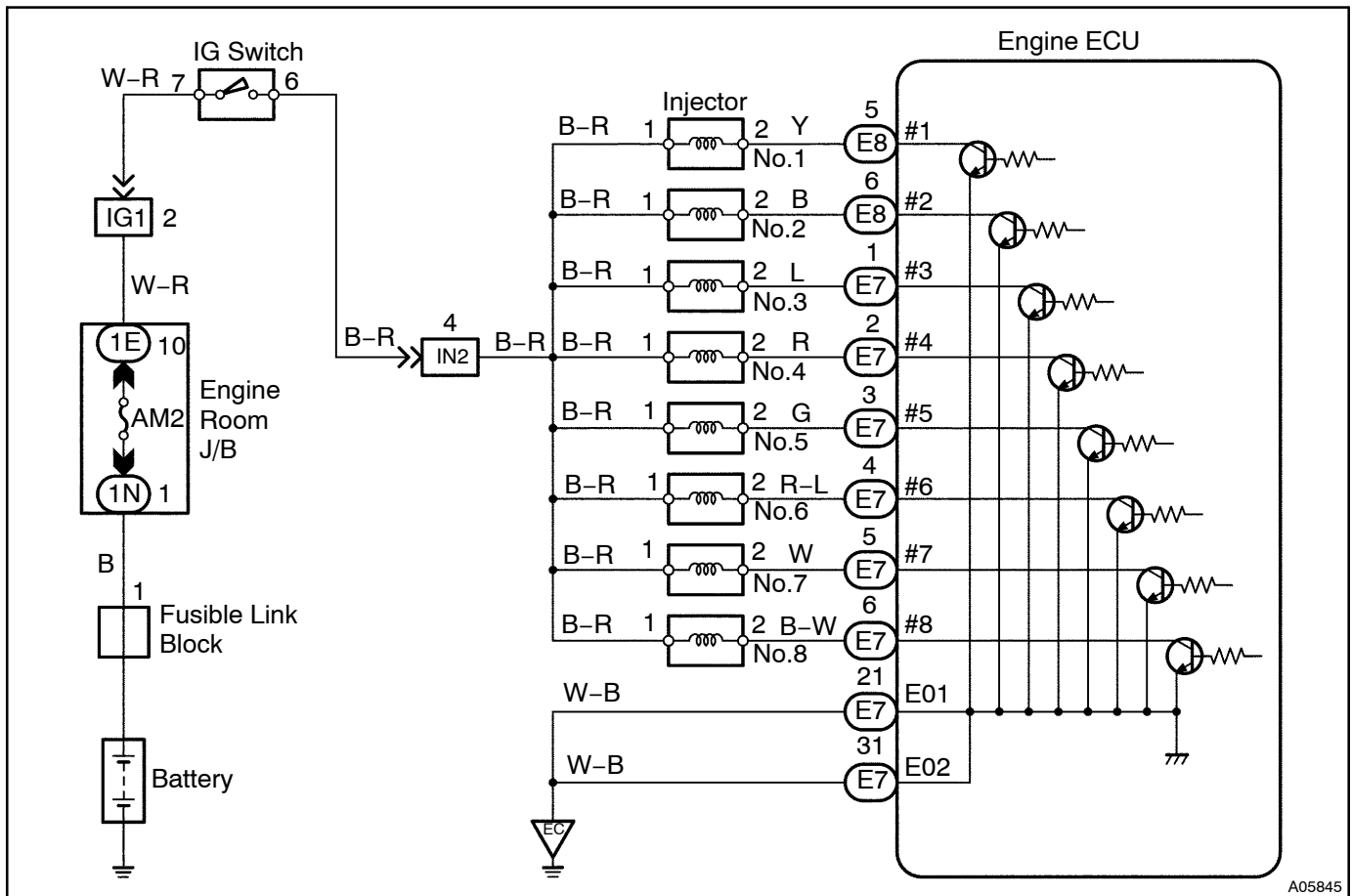


Injector Circuit

CIRCUIT DESCRIPTION

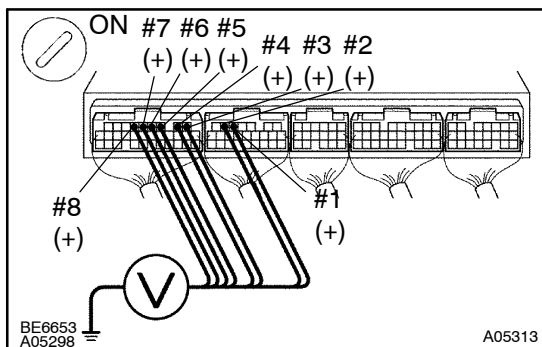
The injectors are provided to the intake manifold. They inject fuel into the cylinders based on the signals from engine ECU.

WIRING DIAGRAM



INSPECTION PROCEDURE

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



PREPARATION:

- (a) Remove the glove compartment door.
- (b) Turn the ignition switch ON.

CHECK:

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

OK:

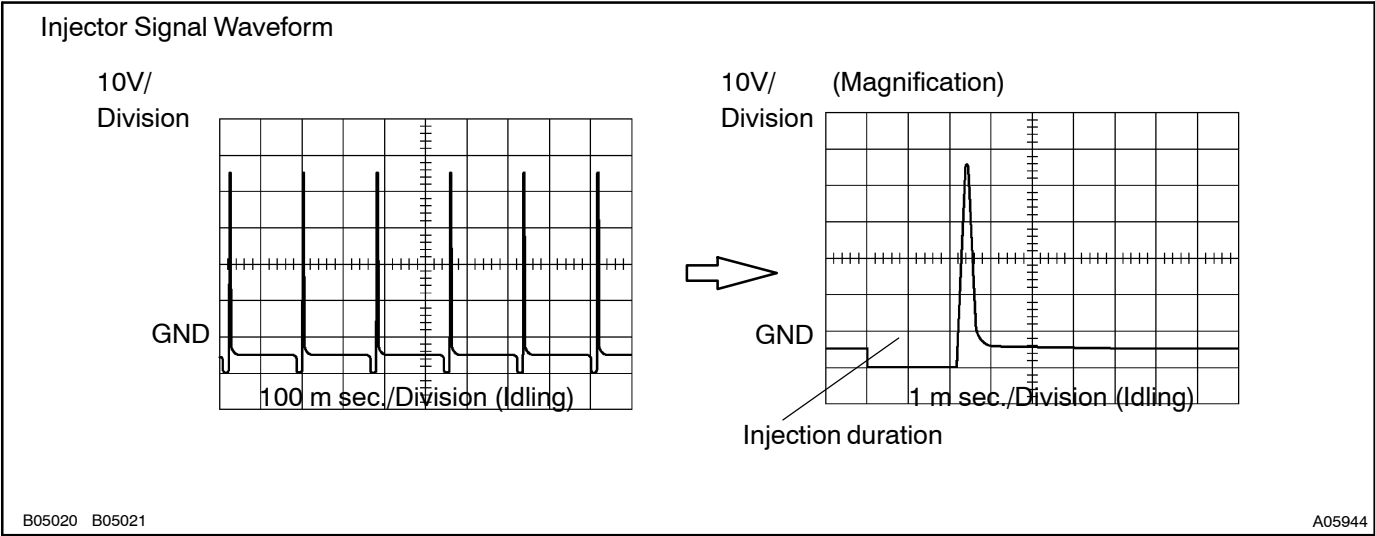
Voltage: 9 - 14 V

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.



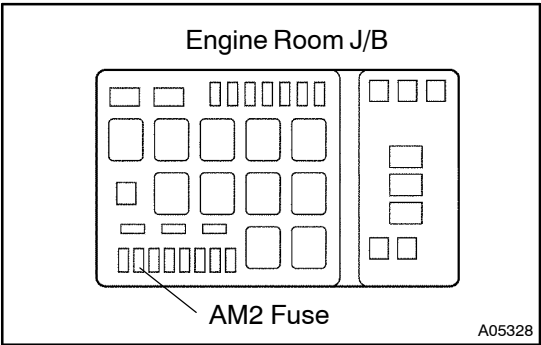
OK

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.

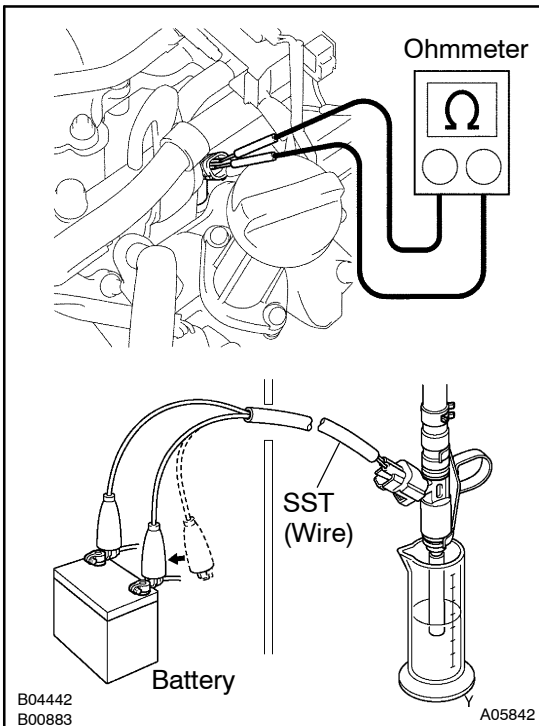
4 Check for open in harness and connector between terminal E0 1 – E03 of engine
ECU connector and body ground ([See page IN-19](#)).

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 Ω at 20 °C (68 °F)

CHECK:

Check injection volume of the injectors.

OK:

Injection volume:

56 – 69 cm (3.4 – 4.2 cu in.)/ 15 sec.

Difference between each injector:

Less than 13 c m (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).