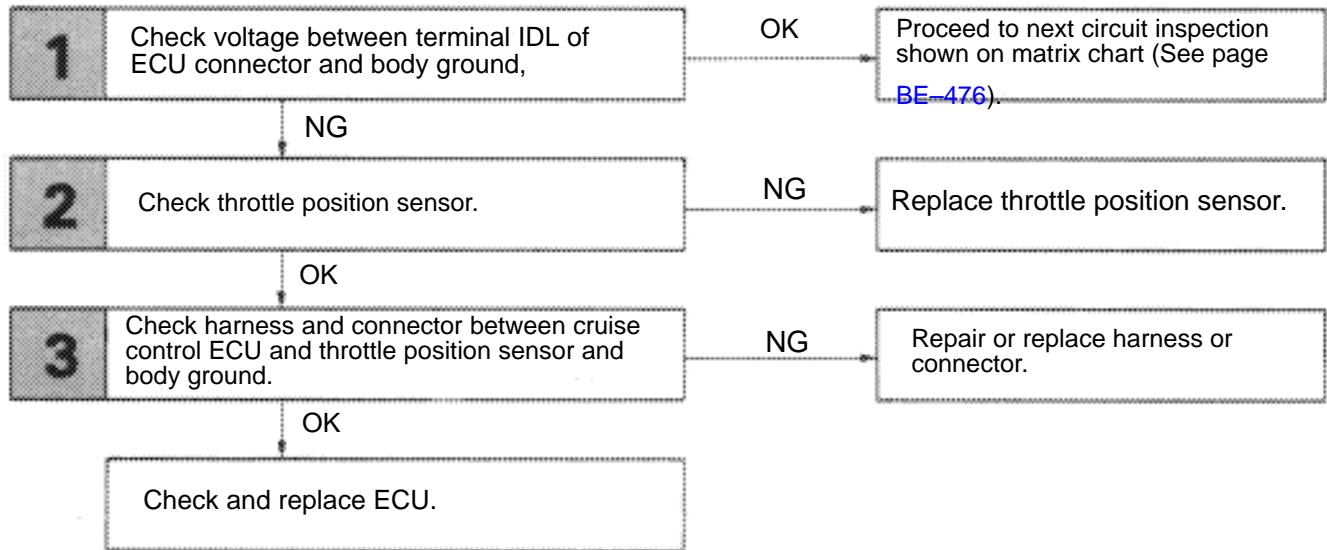


## Idle Switch Circuit

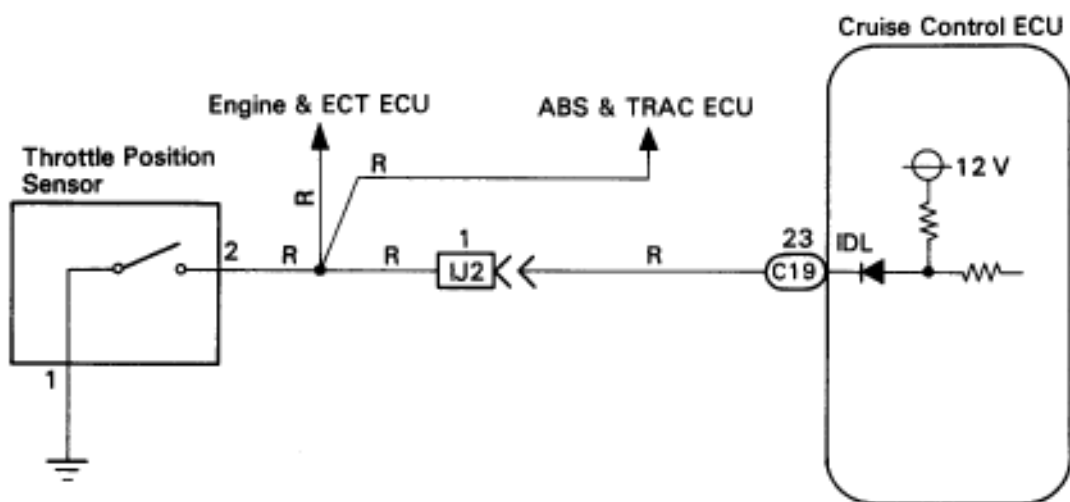
### — CIRCUIT DESCRIPTION —

When the idle switch is turned ON, a signal is sent to the ECU. The ECU uses this signal to correct the discrepancy between the throttle valve position and the actuator position sensor value to enable accurate cruise control at the set speed. If the idle switch is malfunctioning, problem symptoms also occur in the engine, so also inspect the engine.

### — DIAGNOSTIC CHART —

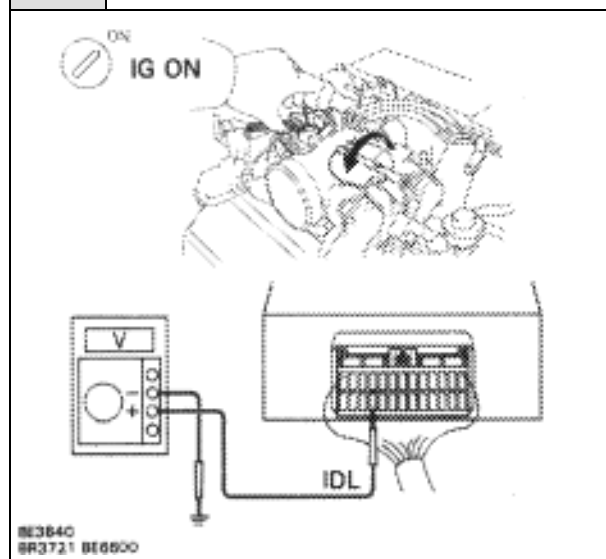


### WIRING DIAGRAM



## INSPECTION PROCEDURE

### 1 Check voltage between terminal IDL of ECU connector and body ground.



- P** (1) Remove cruise control ECU with connectors still connected.  
(2) Disconnect Engine & ECT ECU and ABS & TRAC ECU connector.

- C** (1) Turn ignition switch ON.  
(2) Measure voltage between terminal IDL of ECU connector and body ground, when the throttle valve is fully closed and fully opened.

**OK**

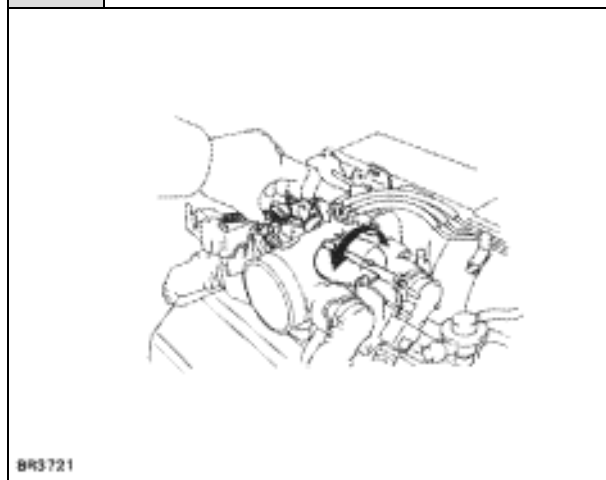
Throttle valve position	Voltage
Fully opened	10 – 14 V
Fully closed	Below 8 V

**NG**

**OK**

Proceed to next circuit inspection shown on matrix chart (See page [BE-476](#)).

### 2 Check throttle position sensor.



- P** Disconnect throttle position sensor connector.

- C** Measure resistance between terminals 1 and 2 of throttle position sensor connector, when the throttle valve is fully closed and fully opened.

**OK**

Throttle valve position	Voltage
Fully opened	1M $\Omega$ or higher
Fully closed	Below 2 $\Omega$

**OK**

**NG**

Replace throttle position sensor.

### 3 Check for open and short in harness and connector between ECU and throttle position sensor, throttle position sensor and body ground. (See page [IN-27](#)).

**OK**

**NG**

Repair or replace harness or connector.

Check and replace ECU.