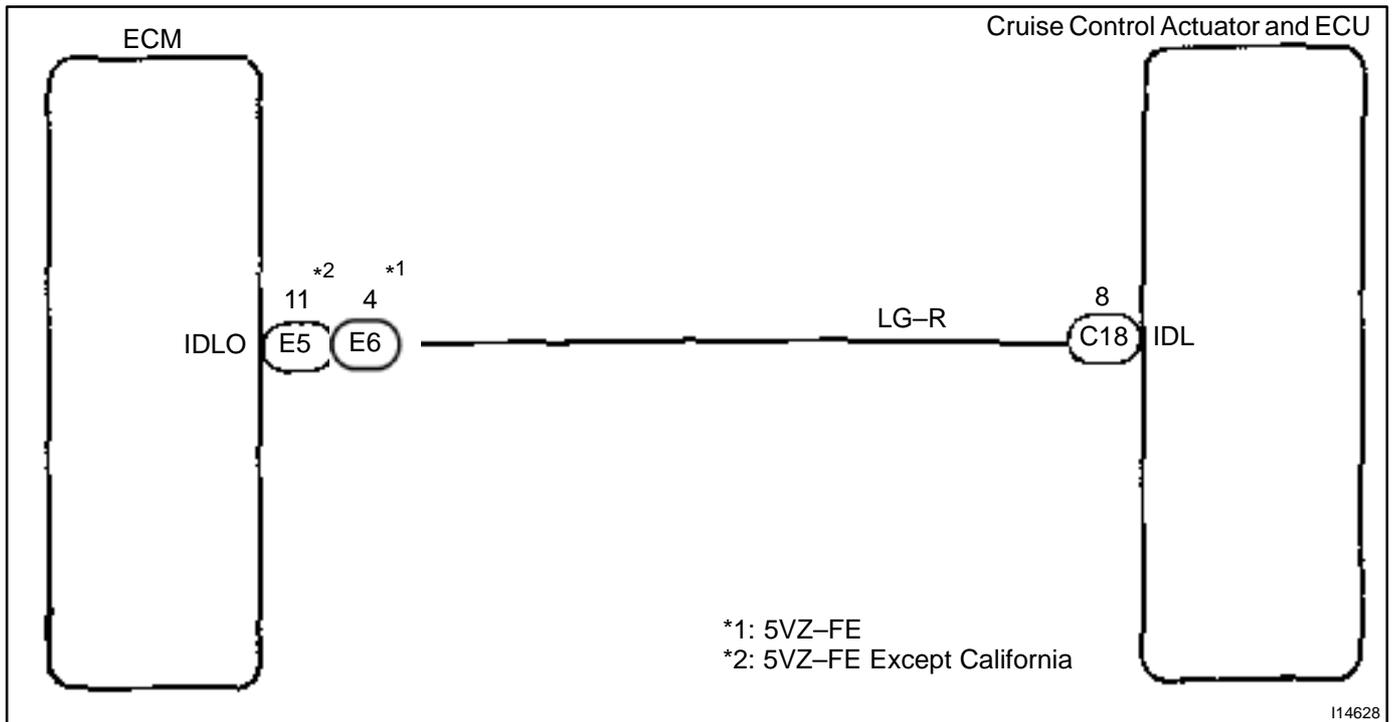


Idle Switch Circuit

CIRCUIT DESCRIPTION

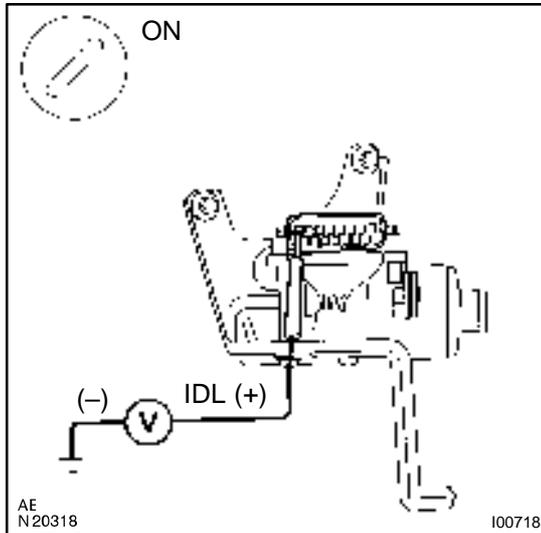
When the idle switch is turned ON, a signal is sent to the ECU. The ECU uses this signal to correct the discrepancy between the throttle valve position and the actuator position sensor valve to enable accurate cruise control at the set speed. If the idle switch is malfunctioning, problem symptoms also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

WIRING DIAGRAM



INSPECTION PROCEDURE

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

**PREPARATION:**

- (a) Remove the cruise control ECU with connector still connected.
- (b) Disconnect ECM and ABS ECU connectors.
- (c) Ignition switch ON.

CHECK:

Measure voltage between terminal IDL of ECU connector and body ground when the throttle valve is fully closed and fully opened.

OK:

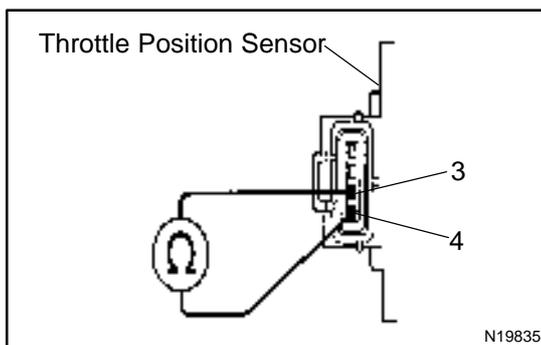
| Throttle valve position | Voltage |
|-------------------------|-----------|
| Fully opened | 10 – 14 V |
| Fully closed | Below 2 V |

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-621).

NG

| | |
|----------|--|
| 2 | Check throttle position sensor. |
|----------|--|

**PREPARATION:**

Disconnect throttle position sensor connector.

CHECK:

Measure resistance between terminals 3 and 4 of throttle position sensor connector when the throttle valve is fully closed and fully opened.

OK:

| Throttle valve position | Resistance |
|-------------------------|----------------|
| Fully opened | 1 MΩ or higher |
| Fully closed | Below 2.3 kΩ |

NG

Replace throttle position sensor.

OK

| | |
|----------|---|
| 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-28). |
|----------|---|

| | |
|-----------|--|
| NG | Repair or replace harness or connector. |
|-----------|--|

| |
|-----------|
| OK |
|-----------|

| |
|--|
| Check and replace cruise control actuator and ECU (See page IN-28). |
|--|