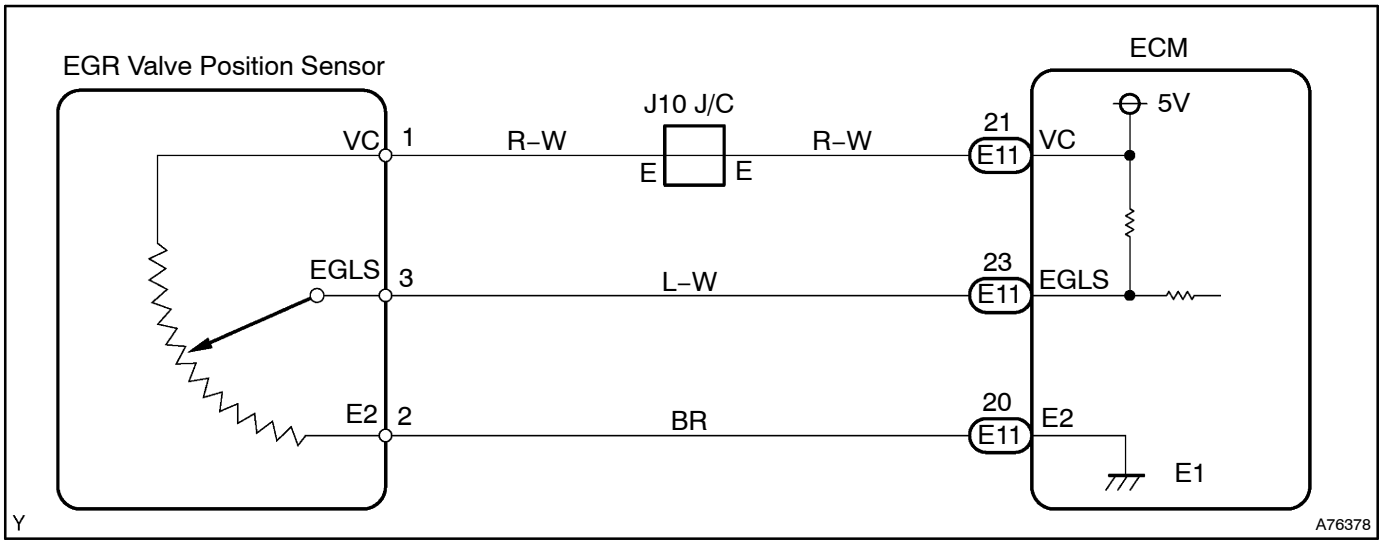
| DTC | 96 | EGR VALVE POSITION SENSOR CIRCUIT MALFUNCTION |
|---|---|---|

## CIRCUIT DESCRIPTION

| DTC No. | DTC Detection Condition | Trouble Area |
|---|---|---|
| 96 | Condition (a) or (b) continues for 0.5 sec. or more:<br>(a) EGLS < 0.1 V<br>(b) EGLS > 4.9V | • Open or short in EGR valve lift sensor circuit<br>• EGR valve lift sensor<br>• ECM |

## WIRING DIAGRAM



## INSPECTION PROCEDURE

HINT:

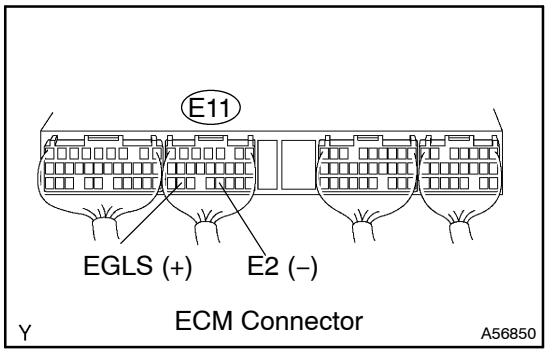
- If different DTCs that are related to different systems are output simultaneously while terminal E2 is used as a ground terminal, terminal E2 may be open.
- Read freeze frame data using hand–held tester, as freeze frame data records the engine conditions when a malfunction is detected. When troubleshooting, it is useful for determining whether the vehicle was running or stopped, the engine was warmed up or not, the air–fuel ratio was lean or rich, etc. at the time of the malfunction.

| 1 | **INSPECT ELECTRIC EGR CONTROL VALVE ASSY(EGR VALVE LIFT SENSOR) (See page 10–21)** |
|---|---|

**NG** → **REPLACE ELECTRIC EGR CONTROL VALVE ASSY**

**OK**

| 2 | **INSPECT ECM(CHECK VOLTAGE)** |
|---|---|




(a) Turn the ignition switch ON.

(b) Measure the voltage between the terminals of the ECM E11 connector.

**Voltage:**

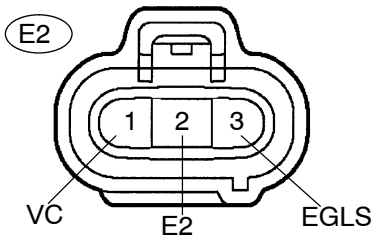
| Symbols (Terminal No.) | Specified condition |
|---|---|
| EGLS (E11 – 23) ⇔ E2 (E11 – 20) | 0.6 – 1.4 V |

**NG** → **CHECK AND REPLACE ECM**

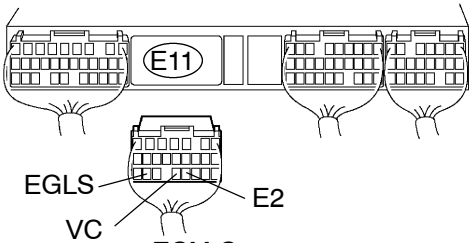
**OK**

## 3 CHECK HARNESS AND CONNECTOR(ECM – EGR VALVE LIFT SENSOR)

**Wire Harness Side**




EGR Valve Lift Sensor Connector A57010




ECM Connector A56852

(a) Disconnect the EGR valve lift sensor connector.
(b) Disconnect the ECM E11 connector.
(c) Check the continuity between the wire harness side connector.

**Standard (Check for open):**

| Symbols (Terminal No.) | Specified condition |
|---|---|
| VC (E11 – 21) ⇔ VC (E2 – 1) | Continuity |
| EGLS (E11 – 23) ⇔ EGLS (E2 – 3) | |
| E2 (E11 – 20) ⇔ E2 (E2 – 2) | |

**Standard (Check for short):**

| Symbols (Terminal No.) | Specified condition |
|---|---|
| VC (E11 – 21) ⇔ EGLS (E11 – 23) | No continuity |
| VC (E11 – 21) ⇔ E2 (E11 – 20) | |
| EGLS (E11 – 23) ⇔ E2 (E11 – 20) | |

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

## 4 CHECK SENSOR INSTALLATION

NG → **TIGHTEN SENSOR**

OK

**CHECK AND REPLACE ECM**