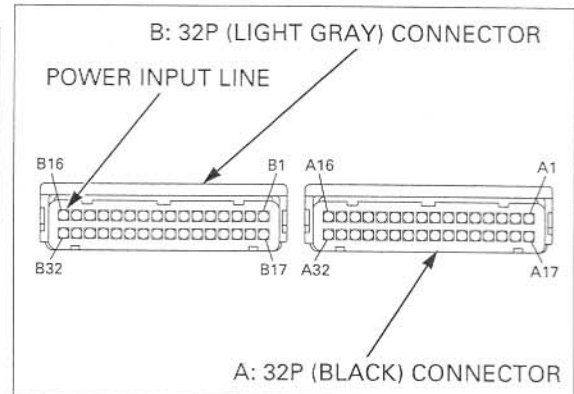


## FUEL SYSTEM (Programmed Fuel Injection)

### DTC 23-1 (No.1 O<sub>2</sub> SENSOR HEATER): California type only

- Before starting the inspection, check for loose or poor contact on the O<sub>2</sub> sensor connector and recheck the DTC.

| DTC  | O <sub>2</sub> Sensor      | POWER INPUT LINE | SIGNAL LINE | SIGNAL AT ECM |
|------|----------------------------|------------------|-------------|---------------|
| 23-1 | No.1 O <sub>2</sub> Sensor | Black/white      | White       | A10           |
| 24-1 | No.2 O <sub>2</sub> Sensor | Black/white      | White       | A9            |



#### 1. O<sub>2</sub> Sensor System Inspection

Reset the ECM (page 6-9).

Start the engine and check the O<sub>2</sub> sensor heater with the HDS.

*Is the DTC 23-1 indicated?*

**YES** – GO TO STEP 2.

- NO** –
- Intermittent failure
  - Loose or poor contact on the O<sub>2</sub> sensor connector

#### 2. O<sub>2</sub> Sensor Heater Resistance Inspection

Turn the ignition switch OFF.

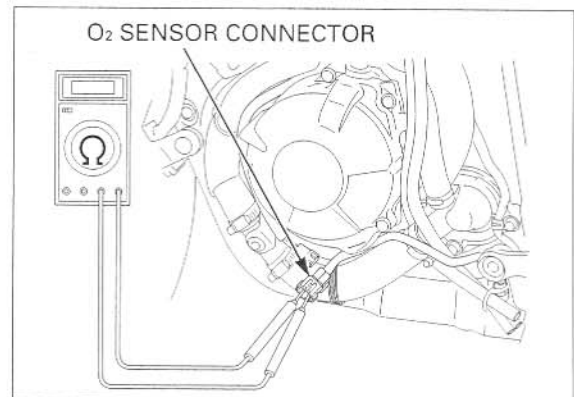
Disconnect the O<sub>2</sub> sensor connector and measure the resistance at the sensor side connector white and Green/orange wire terminals.

**Connection: White – White**

*Is the resistance within 10 – 40 Ω (20°C/68°F)?*

**YES** – GO TO STEP 3.

**NO** – Faulty O<sub>2</sub> sensor



#### 3. O<sub>2</sub> Sensor Heater Open circuit Inspection

Connect the O<sub>2</sub> sensor connector.

Disconnect the ECM 32P connectors and measure the resistance at the ECM terminals.

**Connection: POWER INPUT LINE – SIGNAL**

*Is the resistance within 10 – 40 Ω (20°C/68°F)?*

**YES** – GO TO STEP 4.

- NO** –
- Open circuit in the Black/white wire
  - Open circuit in the SIGNAL LINE wire

