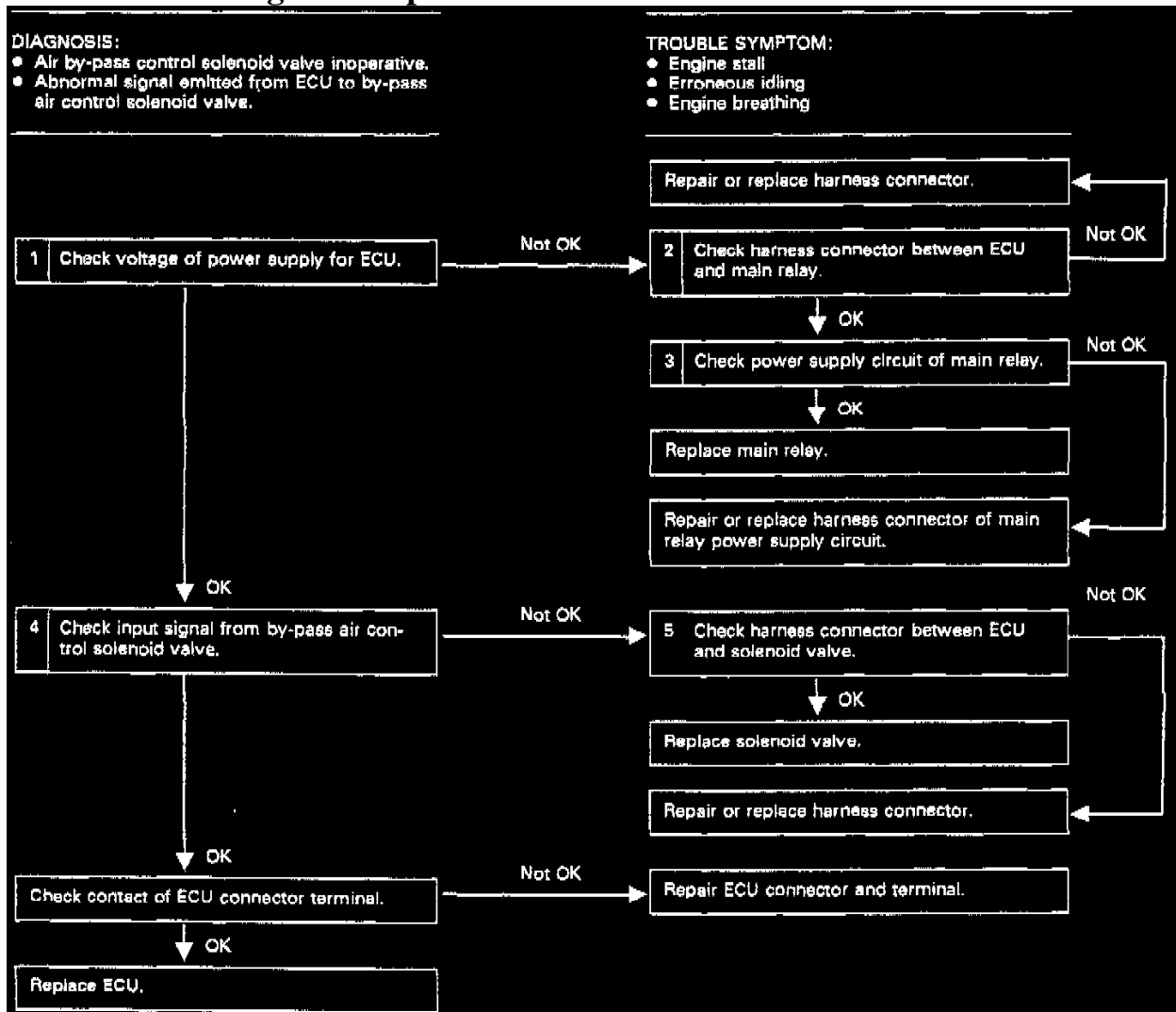
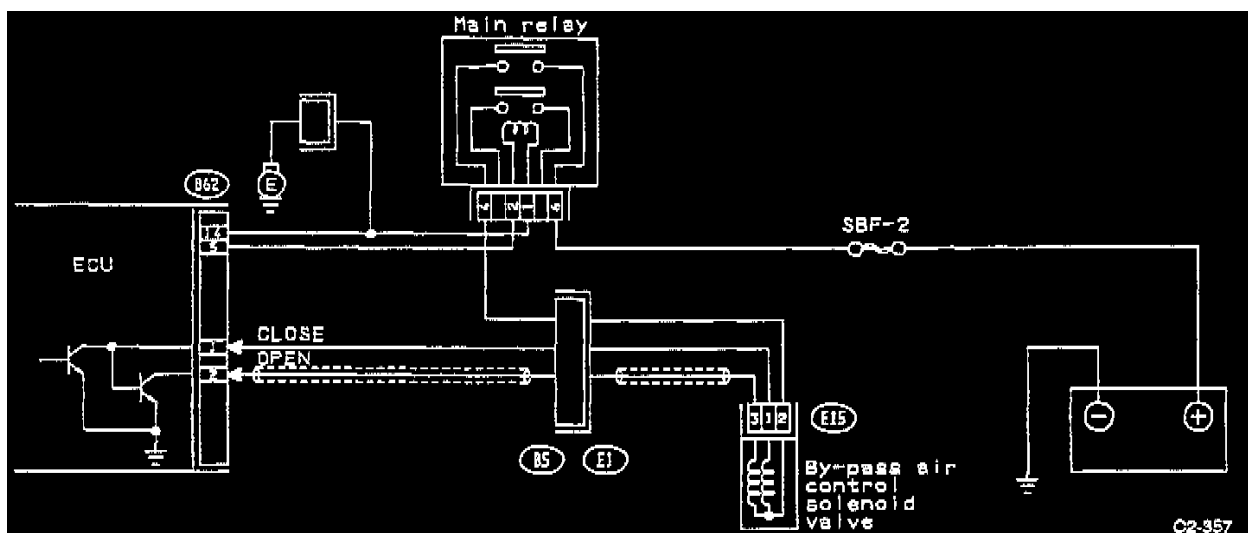


## Idle Control Valve: Testing and Inspection



DTC 24 By-Pass Air Control Solenoid Valve Diagnostic Chart



DTC 24 By-Pass Air Control Solenoid Valve Circuit

### DIAGNOSTIC CHART AND DIAGRAM

1. CHECK POWER SUPPLY VOLTAGE FOR ECU.
  - 1) Turn ignition switch to "ON".

- 2) Measure voltage between ECU connector and body.

**Connector & Terminal/Specified value**

(B62) No. 14 - Body/10 V, min.

2. CHECK HARNESS CONNECTOR BETWEEN ECU AND MAIN RELAY.

- 1) Turn ignition switch to "OFF".
- 2) Disconnect connector from ECU and main relay.
- 3) Measure resistance of harness connector between ECU and main relay.

**Connector & Terminal/Specified value**

(B62) No. 14 - (B52) No. 4/0 ohms

3. CHECK POWER SUPPLY CIRCUIT OF MAIN RELAY.

- 1) Turn ignition switch to "ON".
- 2) Measure voltage between main relay connector and body.

**Connector & Terminal/Specified value**

(B52) No. 1 - Body/10 V, min.

(B52) No. 2 - Body/10 V, min.

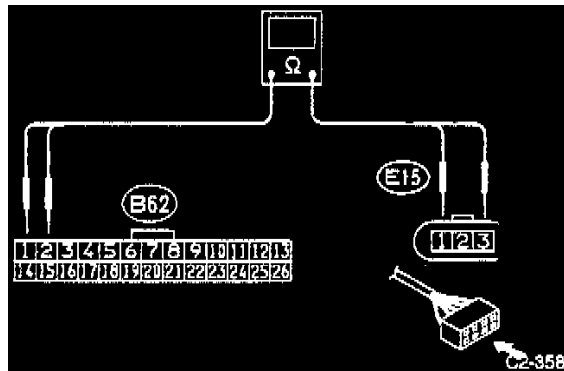
4. CHECK INPUT SIGNAL FROM BY-PASS AIR CONTROL SOLENOID VALVE.

- 1) Turn ignition switch to "ON".
- 2) Measure voltage between ECU connector and body.

**Connector & Terminal/Specified value**

(B62) No. 2 - Body/7 V, min.

(B62) No. 1 - Body/6 V, min.



**Bypass Air Control Solenoid Valve And ECM Connectors**

5. CHECK HARNESS CONNECTOR BETWEEN ECU AND SOLENOID VALVE.

- 1) Turn ignition switch to "OFF".
- 2) Disconnect ECU connectors.
- 3) Separate throttle body from collector, and disconnect connector from by-pass air control solenoid valve.
- 4) Measure resistance of harness connector between ECU and solenoid valve.

**Connector & Terminal/Specified value**

(B62) No. 2 - (E15) No. 3/0 ohm

(B62) No. 1 - (E1 5) No. 1/0 ohm