

# Air Intake System

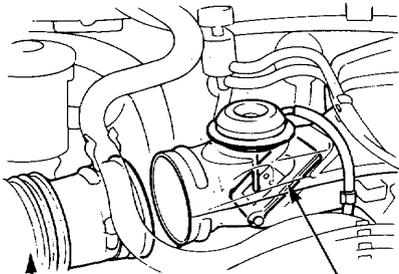
## Intake Air Control System

### Testing (COLD ENGINE)

NOTE: Intake air temperature must be below 25°C (77°F).

1. Disconnect the air intake duct and start the engine.

The air control door should rise.

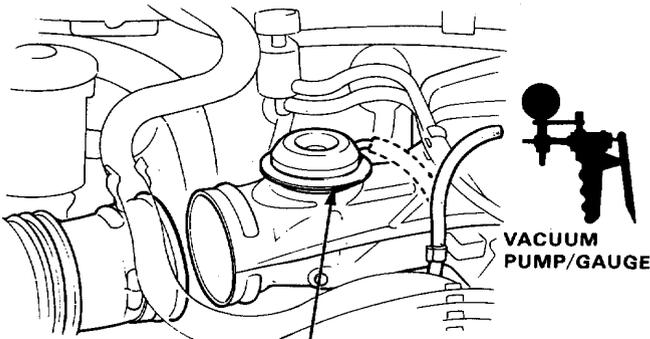


AIR INTAKE DUCT

AIR CONTROL DOOR

- If not, disconnect the vacuum hose from the air control diaphragm, and connect a vacuum pump.

There should be vacuum.



AIR CONTROL DIAPHRAGM

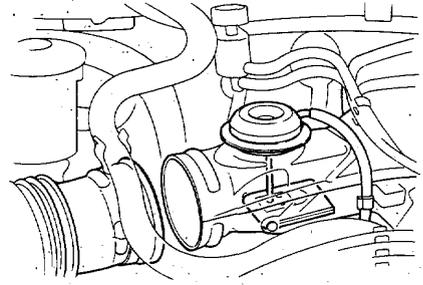
VACUUM PUMP/GAUGE

- If there is vacuum, replace the air control diaphragm and retest.
- If there is no vacuum, check the vacuum hose for proper connection, cracks, blockage or disconnected hose, and replace the air bleed valve A.

### Testing (HOT ENGINE)

1. Start the engine and warm up to normal operating temperature (the cooling fan comes on).

The air control door should be down.



- If not, disconnect the vacuum hose from the air control diaphragm, and connect a vacuum pump.

There should be no vacuum.

- If there is no vacuum, replace the air control diaphragm and retest.
- If there is vacuum, replace the air bleed valve A and retest.