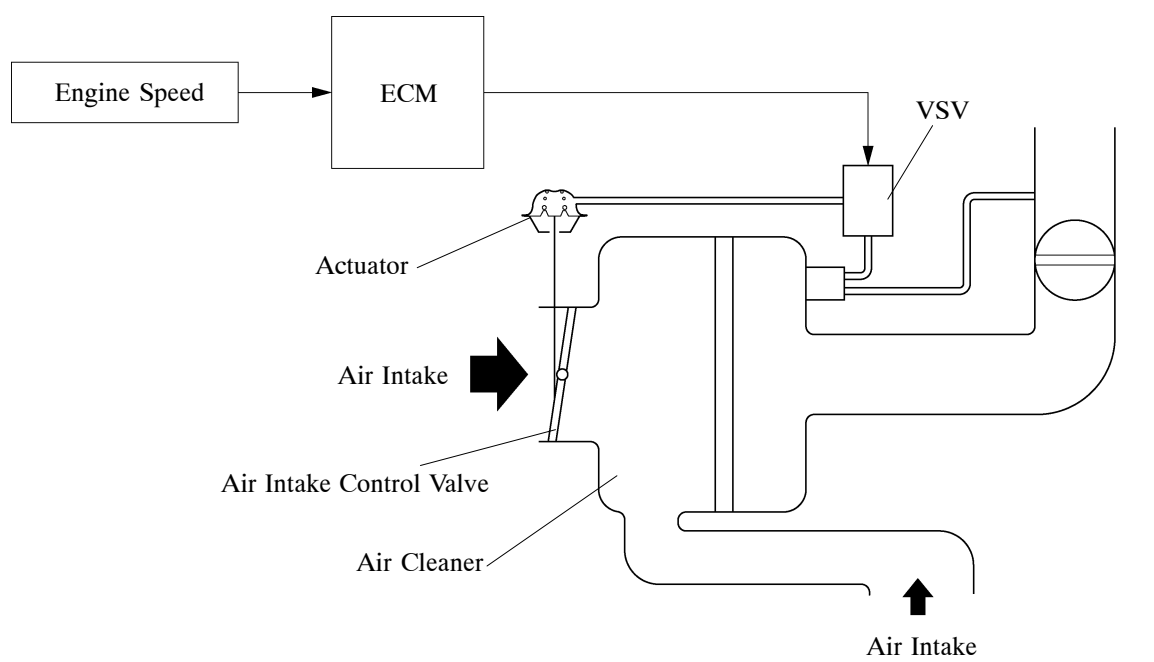


9. Air Intake Control System

General

- The system has a dual path design in the intake for the air cleaner box. An air intake control valve and actuator control the choice of air flow path. As a result, a reduction of intake noise in the low-speed range and an increase in the power output in the high-speed range is realized.
- The ECM controls the operation of the air intake control valve by switching the VSV according to engine conditions.

► Layout of Components ◀



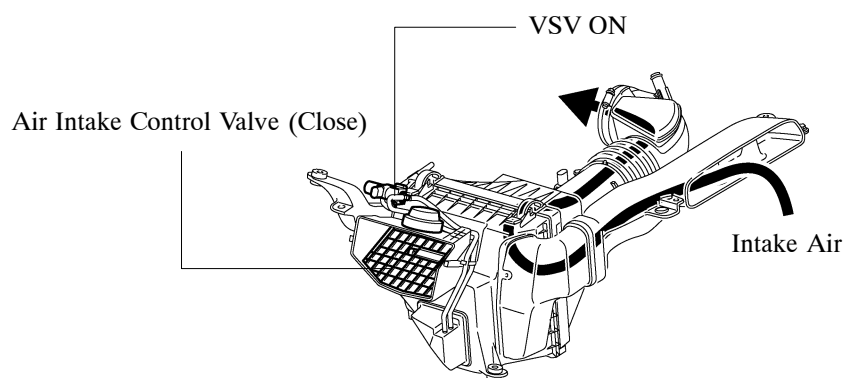
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Operation

1) When the Air Intake Control Valve Closes

When the engine is operating in the low- speed, this control operates the air intake control valve to close one part of the air cleaner inlet. As a result, the air enters the air filter box via the smaller port, allowing the resonator to help to reduce the intake noise.

Engine Speed: Less than 3600 rpm

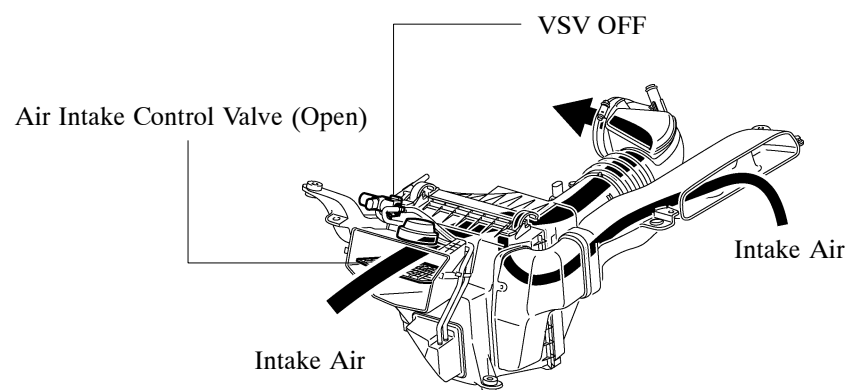


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2) When the Air Intake Control Valve Open

When the engine is operating in the mid-speed range to high-speed range, this control operates the air intake control valve to open both sides of the air cleaner inlet. As a result, the intake area is maximized and the intake efficiency is improved.

Engine Speed: More than 3600 rpm



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