

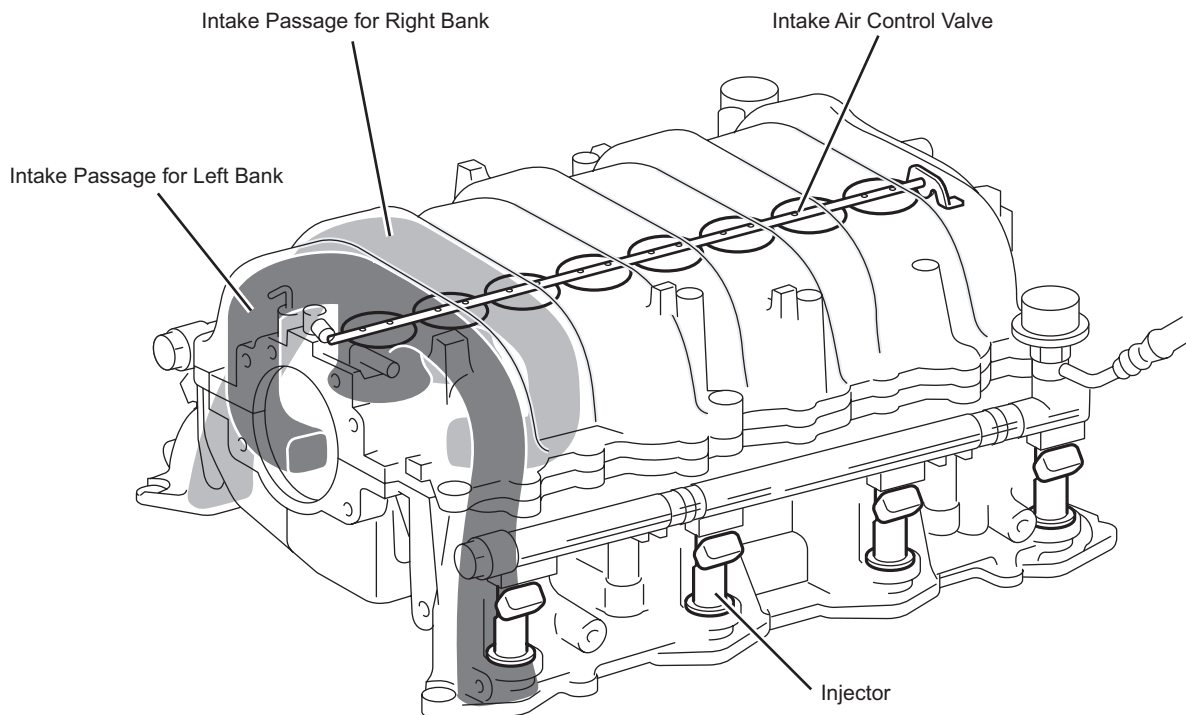
Air Flow Meter

- This air flow meter, which is a plug-in type, allows a portion of the intake air to flow through the detection area. By directly measuring the mass and the flow rate of the intake air, the detection precision has been improved and the intake air resistance has been reduced.
- This air flow meter has a built-in intake air temperature sensor.
- This system measures the air flow in the bypass, which is less likely to be affected by the intake pulsations created by the air cleaner. Also, the flow path is constructed to minimize flow resistance, thus reducing flow loss. Therefore, this system can measure small to large airflow in a precise manner.

(See page EG-205)

Intake Manifold

- The low-to mid-speed range has been improved by increasing the length of the intake manifold port.
- This valve is activated by ACIS and is used to alter the intake pipe length to improve the engine performance in all speed ranges.
- The intake manifold is oriented so that it draws air from the front of the engine, enabling a uniform distribution of intake air to the right and left banks.
- Long ports are used to ensure torque in the low- to medium-speed range.
- Along with the use of the air assist system, an air passage for air assist is provided in the intake manifold.
- The distance between the injector and the intake valve has been shortened. This reduces the amount of adhesion of fuel against the inner surface of the intake port, decreases the amount of HC in the exhaust gas, and improves exhaust emission performance.



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