

NEW FEATURES

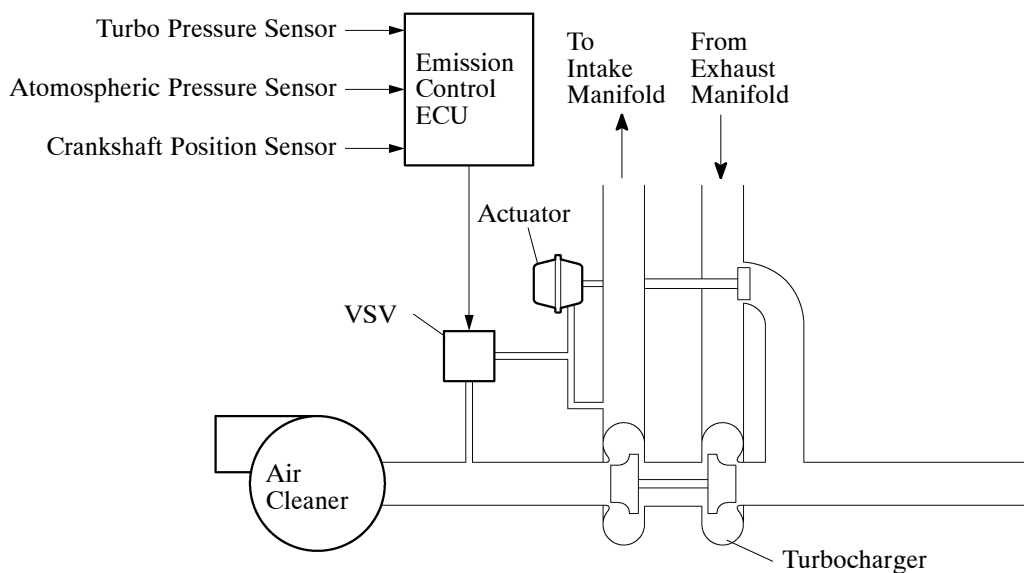
■ 15B-FT ENGINE

Turbocharger Control System

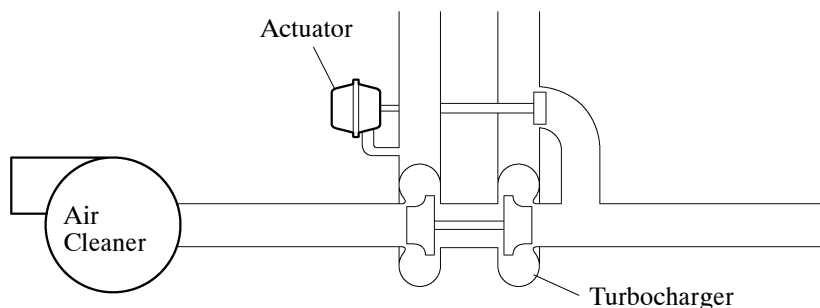
General

- On the previous Coaster, the boost pressure of the turbocharger acted directly on the actuator in order to operate the actuator. On the new Coaster, the emission control ECU controls the opening of the VSV, in order to regulate the turbo boost pressure that acts on the actuator. In addition, the characteristics of the actuator have been changed to prevent the turbocharger from overrunning at high altitudes.
- On the new Coaster, the boost pressure at sea level is controlled in the same way as on the previous Coaster. Therefore, the power output characteristics of the new and previous Coaster are the same.

► System Diagram ◀



New Coaster



Previous Coaster

Operation

- The emission control ECU calculates the target boost pressure based on the engine speed, atmospheric pressure, and turbo pressure. Then, it actuates the VSV so as to attain the target boost pressure, thus regulating the boost pressure of the turbocharger that acts on the actuator.
- At sea level, the boost pressure is controlled in the same way as on the previous model.

► VSV Operation ◀

	VSV Opening Time	Pressure Acting on Actuator	Boost Pressure
Sea Level	Large	Low	High
High Altitude	Small	High	Low

► Turbo Pressure ◀

