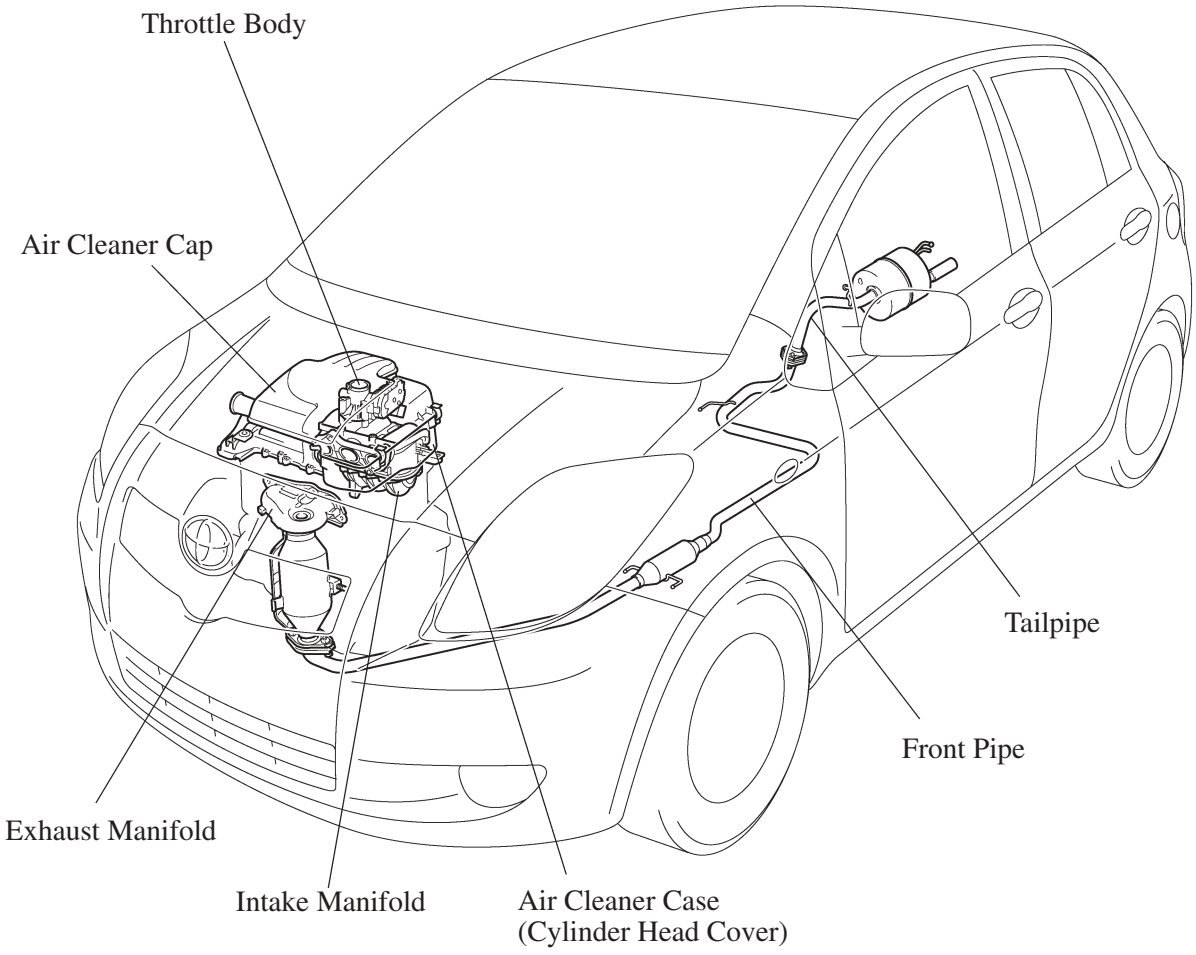
■INTAKE AND EXHAUST SYSTEM

1. General

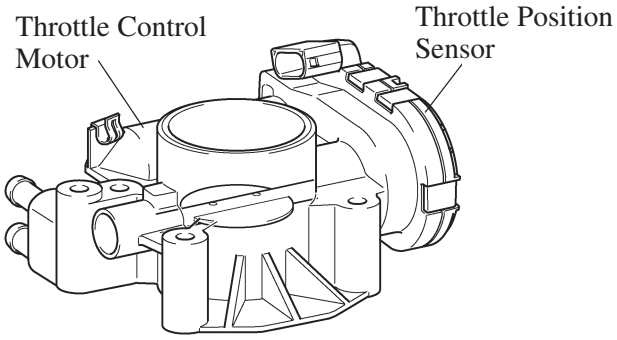
- A plastic intake manifold is used for weight reduction.
- A linkless type throttle body is used.
- A cylinder head cover made of plastic and integrated with an air cleaner case is used.
- A stainless steel exhaust manifold and exhaust pipe are used for weight reduction and proper rust resistance.



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2. Throttle Body

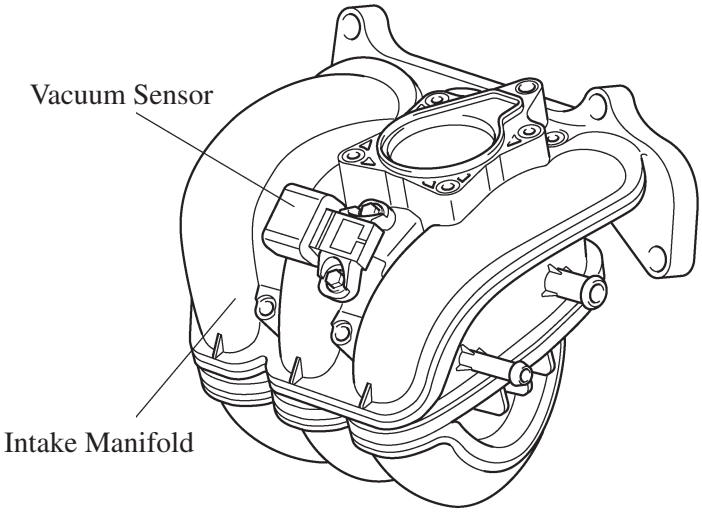
- A linkless type throttle body is used and it realizes excellent throttle control. For details of the ETCS-i (Electronic Throttle Control System-intelligent) control, see page EG-44.
- The throttle body uses a throttle control motor and non-contact type throttle position sensor.



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3. Intake Manifold

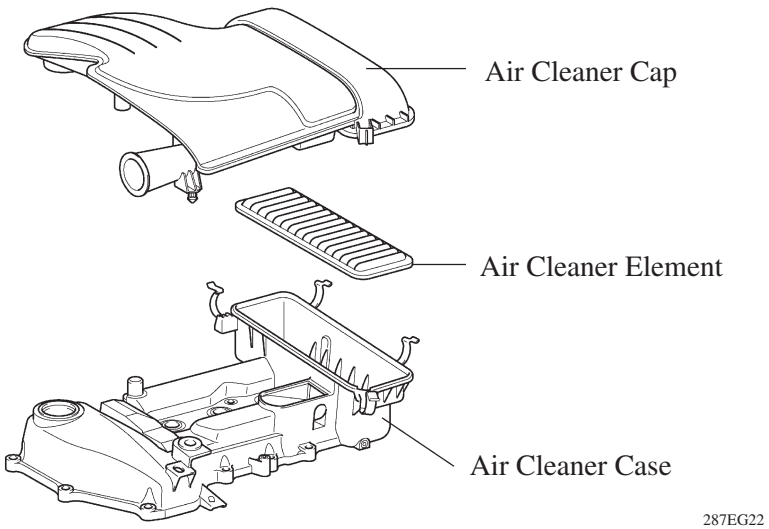
- The intake manifold has been made of plastic to reduce the weight and the amount of heat transferred from the cylinder head. As a result, it has become possible to reduce the intake air temperature and realize the high intake volumetric efficiency.
- The intake manifold contains a vacuum sensor in which an intake air temperature sensor is integrated, to detect the intake manifold pressure and intake air temperature.



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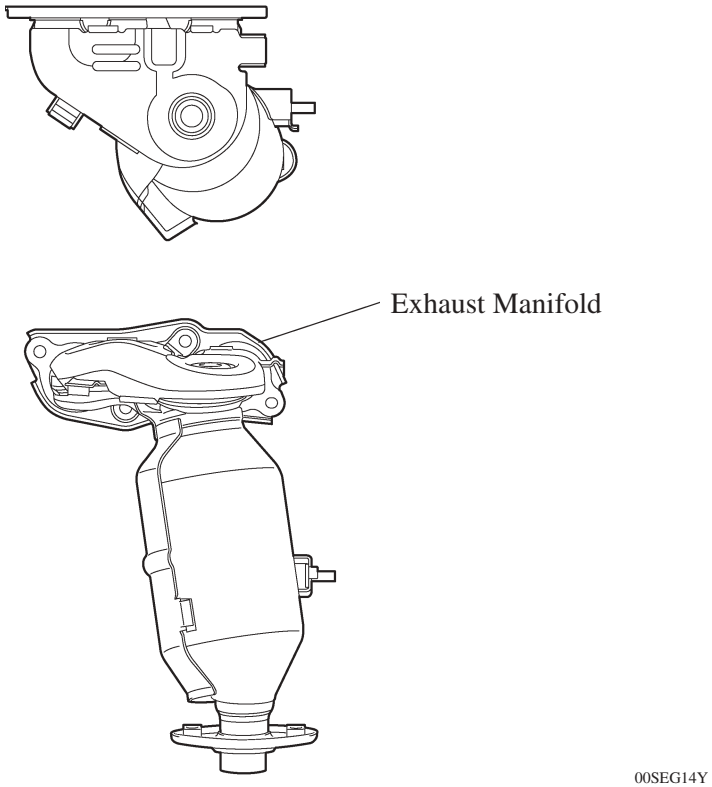
4. Air Cleaner

A cylinder head cover and air cleaner case made of plastic are integrated for weight reduction.



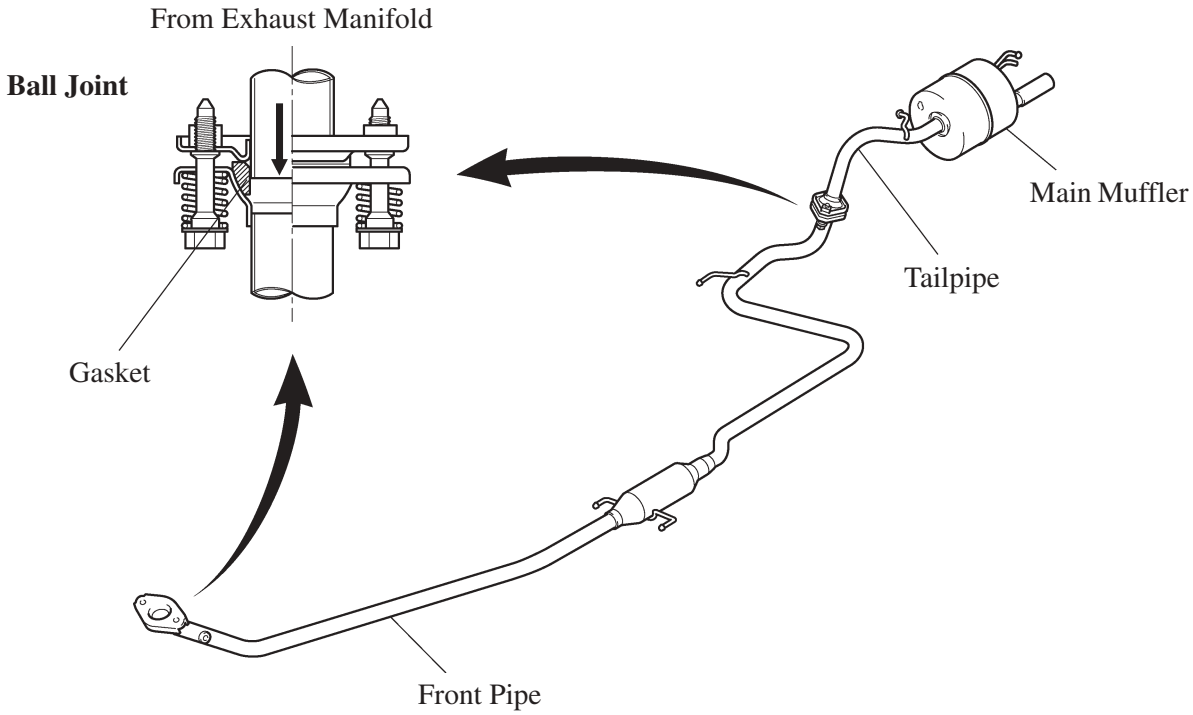
5. Exhaust Manifold

A stainless steel exhaust manifold is used for the efficient warm-up of TWC (Three-Way Catalytic converter) and for weight reduction.



6. Exhaust Pipe

- The construction of the muffler has been optimized to create a main muffler that is compact and lightweight.
- Ball joints are used to join the exhaust manifold to the front pipe, and the front pipe to the tailpipe. As a result, a simple construction and high reliability have been realized.



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