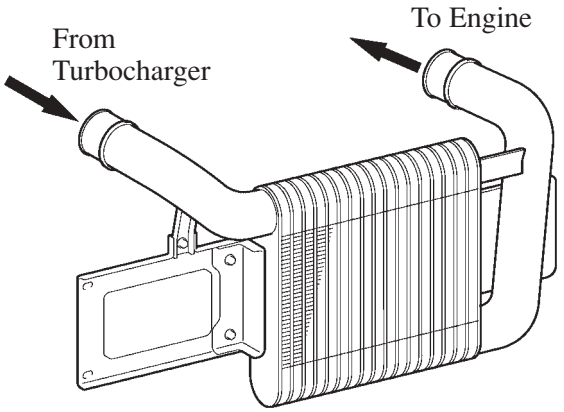
■INTAKE AND EXHAUST SYSTEM

1. Intercooler

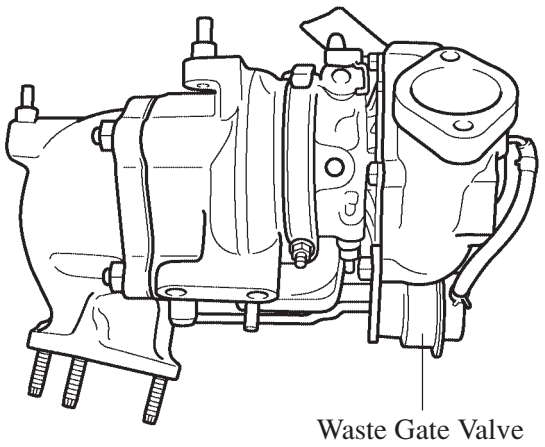
- The intercooler is made of aluminum and located in front of the radiator.
- The temperature of the intake air that is boosted by the turbocharger is lowered by the function of the intercooler in order to increase intake efficiency and improve the power output and drivability.



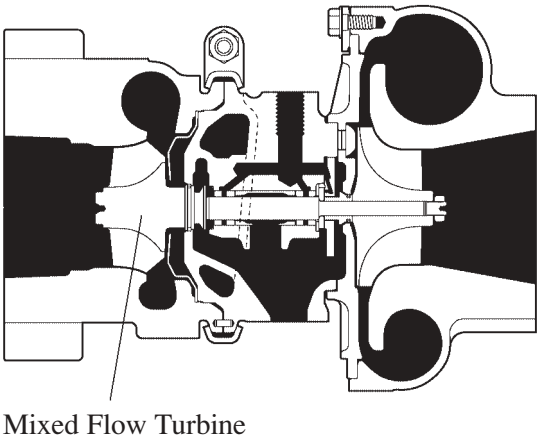
225EG31

2. Turbocharger

- A lightweight and compact turbochager is used for high performance.
- A mixed-flow turbine has been adopted to improve response.
- A waste gate valve is built into the turbine housing and is operated by the actuator to control the maximum turbo charging pressure.



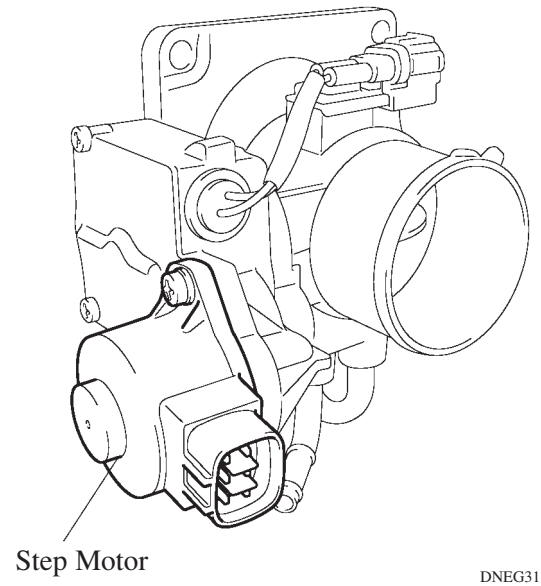
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3. Throttle Body

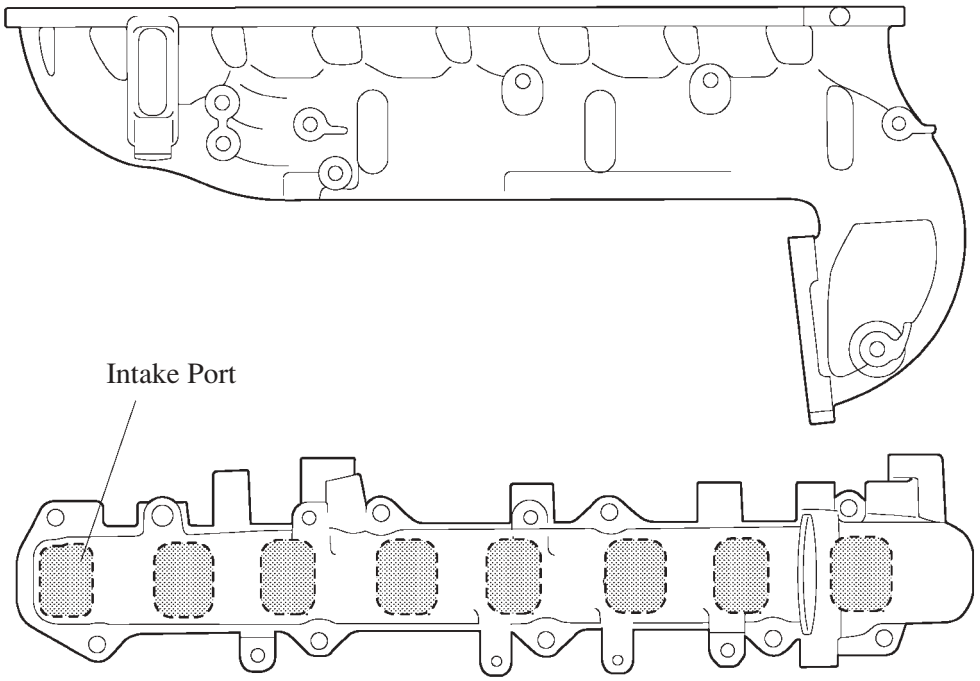
- The throttle valve that is not linked directly to an accelerator pedal has been adopted to reduce the vibration, when the engine is stopping.
- The control of the throttle valve opening is achieved by the engine ECU as it operates the step motor in accordance with the engine conditions.



DNEG31

4. Intake Manifold

The shape of the intake manifold has been optimized in order to render the ports independent and to stabilize the intake swirl.



DNEG11

5. Exhaust Pipe

An catalytic converter for oxidation has been adopted for the front exhaust pipe to reduce exhaust emissions.