

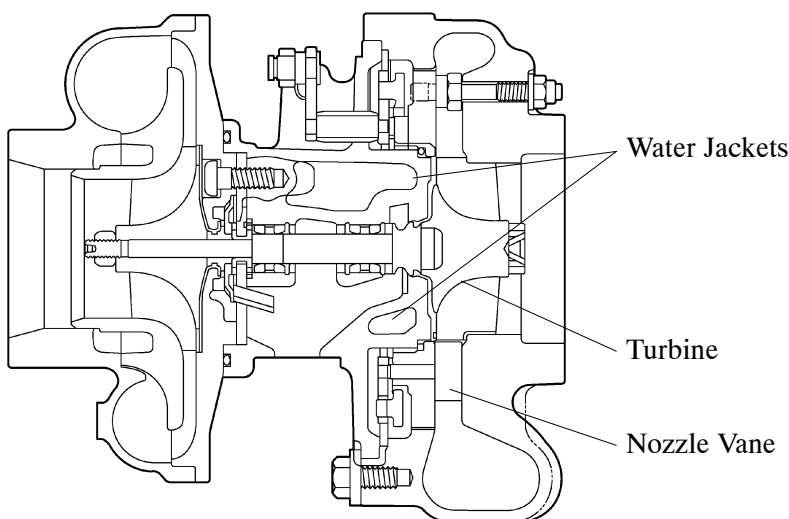
■ TURBOCHARGER

1. General

- A variable nozzle vane type turbocharger is used. In response to the engine condition, by controlling the nozzle vane variably and making the most suitable amount of the exhaust gas inflow to the turbine, great improvements of low speed torque, maximum output, fuel consumption and noise and emission reductions have realized.

For details, refer to page EG-87.

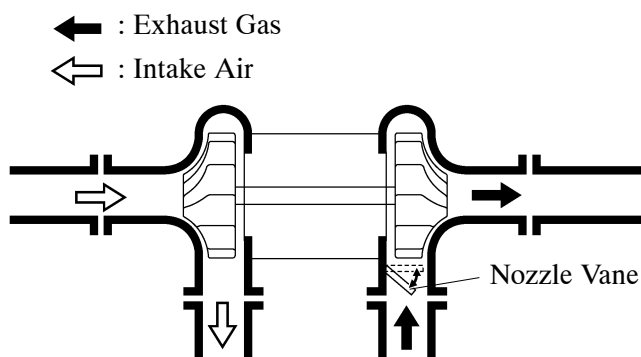
- A water jacket is provided in the bearing housing to improve the cooling performance of the turbocharger.



195EG70

2. Operation

The exhaust gas from the exhaust manifold goes through the nozzle vane inside the turbo charger housing, and flows to the exhaust pipe through the turbine. The speed of the turbine (supercharging pressure) differs depending on the flow velocity of the exhaust gas going through the turbine and the flow velocity of the exhaust gas is controlled by the opening. In such a time like idling, when the exhaust gas is less, the nozzle vane is fully closed, but as there is a slight clearance between the vanes, the exhaust gas flows through this clearance to the exhaust pipe. Therefore, there is no bypass.



195EG72