

TORQUE CONVERTER [GW6A-EL, GW6AX-EL]

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Purpose/Function

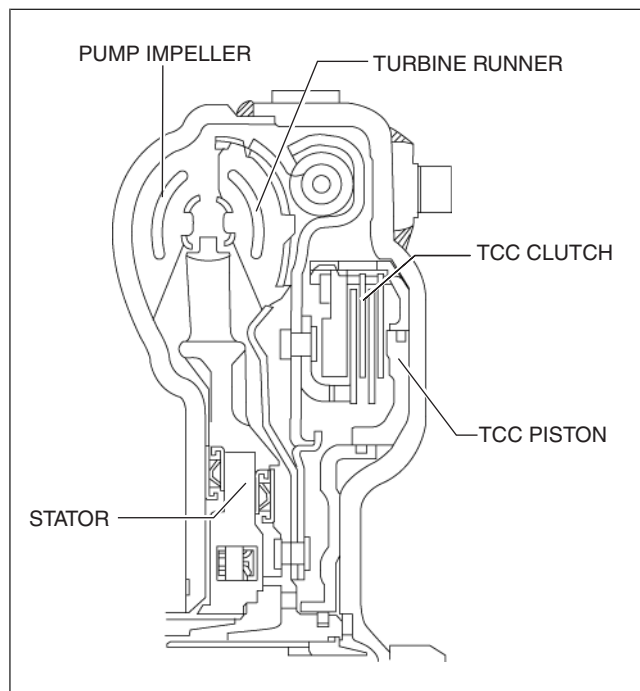
- By use of an optimized torus shape (wing) matching the output characteristics of the engine, the torque converter achieves efficient force transmission and reduced fuel consumption.

Construction/Operation

- A three-member, single-stage two-phase type torque converter with a torque converter clutch (TCC) mechanism has been adopted.
 - Three-member: Indicates that the torque converter consists of a pump impeller, turbine runner, and stator.
 - Single stage: Indicates the number of turbine runners.
 - Two-phase: Indicates that there are two conditions; torque converter range and fluid coupling range.

TCC mechanism

- A TCC piston built into the torque converter operates during TCC control. When hydraulic pressure is applied to the TCC piston, the TCC clutch engages to mechanically connect the pump impeller to the turbine runner. The TCC mechanism achieves excellent fuel economy as a result of no loss in drive force transmission due to torque converter slippage. In addition, precise hydraulic control is made possible by a multi-plate clutch equipped with an independent piston housing. With the adoption of this mechanism, the achievable range of TCC control has widened dramatically.



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