

IDLE AIR CONTROL (IAC) VALVE CONSTRUCTION/OPERATION [LF]

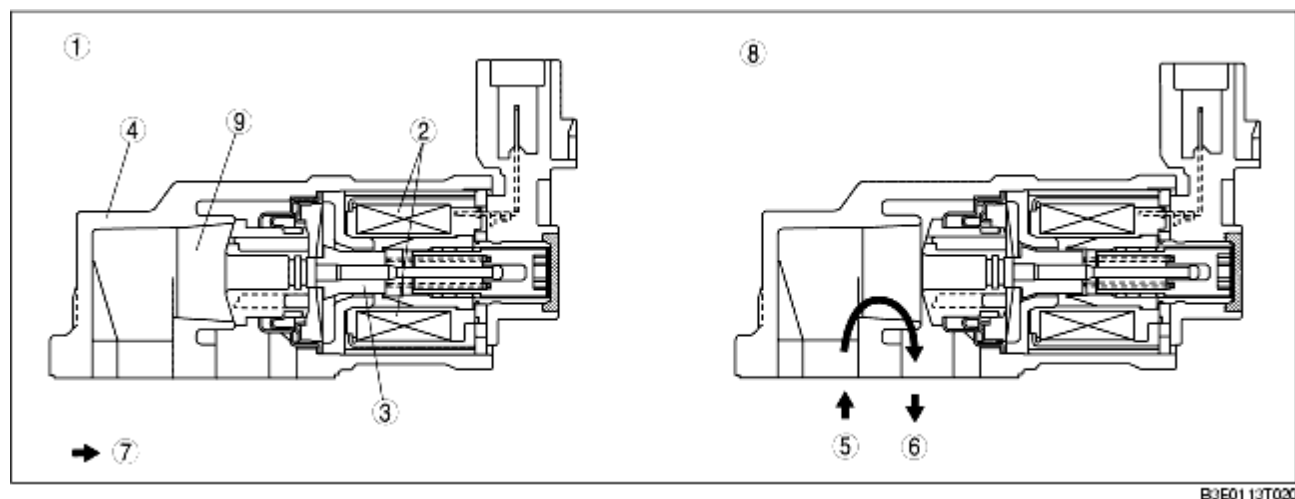
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Construction

- Installed on the intake manifold.
- Mainly consists of the housing, valve, plunger and coil.

Operation

- Air that bypasses the throttle valve passes from the air hose upstream of the throttle valve, through the IAC valve and is suctioned towards the intake manifold downstream of the throttle valve.
- The valve moves according to a duty signal from the PCM and the size of the bypass passage opening varies accordingly.
- The amount of air that bypasses the throttle valve varies according to the size of the bypass opening; the larger the opening, the more air that is bypassed.



B3E0113T030

1	Not energized
2	Coil
3	Plunger
4	Housing
5	From air hose
6	To intake manifold
7	Atmospheric air flow
8	Energized
9	Valve