

VARIABLE INTAKE-AIR SHUTTER VALVE ACTUATOR CONSTRUCTION/OPERATION [LF]

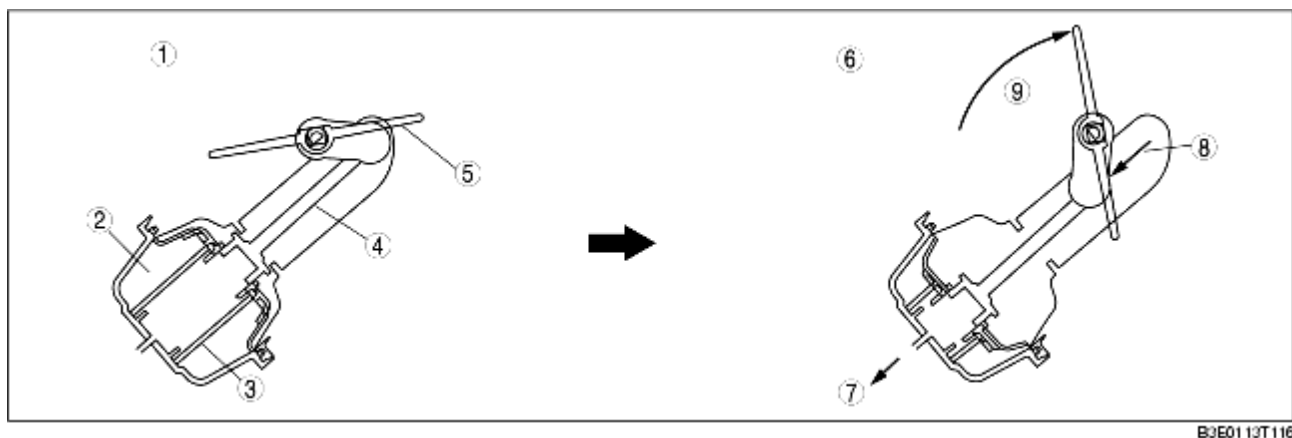
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Construction

- Mainly consists of the body, rod and diaphragm chamber spring.

Operation

- Normally, the spring force presses against the rod, keeping the shutter valve open. When vacuum is applied to the diaphragm chamber from the intake manifold, the rod is pulled, closing the shutter valve.



1	Normal status (depressurized)
2	Diaphragm chamber
3	Spring
4	Rod
5	Shutter valve (open)
6	Vacuum applied
7	Vacuum applied
8	Rod pulled
9	Shutter valve (closed)