

# VARIABLE INTAKE-AIR SHUTTER VALVE ACTUATOR CONSTRUCTION/OPERATION [Z6]

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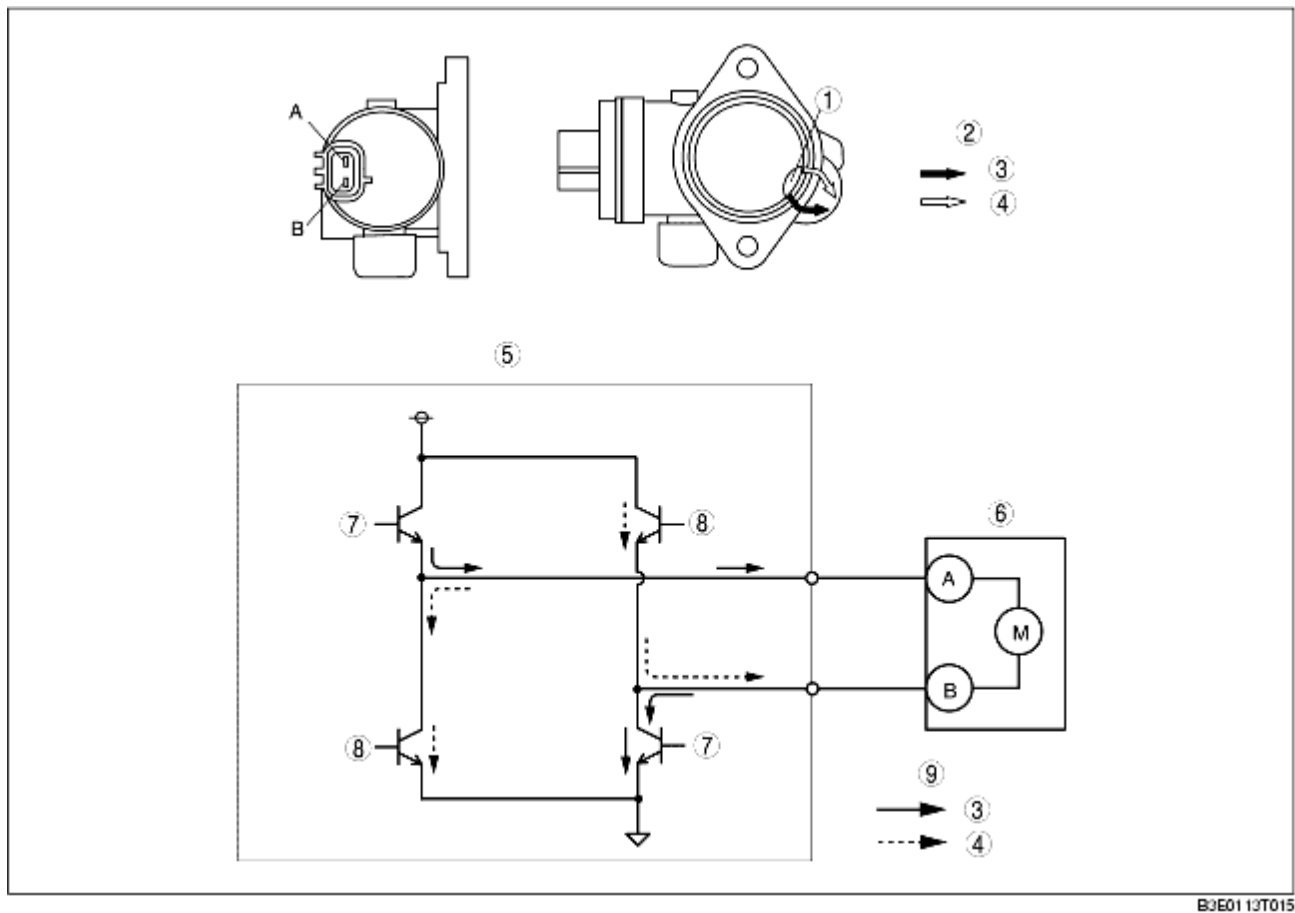
## Construction

- The shutter valve actuator is mainly composed of a DC motor and gear.
- The variable intake-air shutter valve opens and closes by the operation of the motor activated by the PCM. Operation of the motor via activated directional switching switches the variable intake-air shutter valve in the direction of open or closed.

## Operation

- The variable intake-air shutter valve opens and closes by the operation of the motor activated by the PCM. Operation of the motor via activated directional switching switches the variable intake-air shutter valve in the direction of open or closed.
- When 12 V is applied to the variable intake-air shutter valve actuator terminal A, the gear moves counterclockwise and the variable intake-air shutter valve opens. Conversely, when 12 V is applied to the variable intake-air shutter valve actuator terminal B, the gear moves clockwise and the variable intake-air shutter valve closes.

12 V terminal	Gear rotation direction	Shutter valve operation
A	Counterclockwise	Close→ Open
B	Clockwise	Open→ Close



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1	Gear
2	Gear rotation direction
3	Variable intake-air shutter valve close to open
4	Variable intake-air shutter valve open to close
5	PCM
6	Variable intake-air shutter valve actuator
7	Open on, close off
8	Open off, close on
9	Current direction