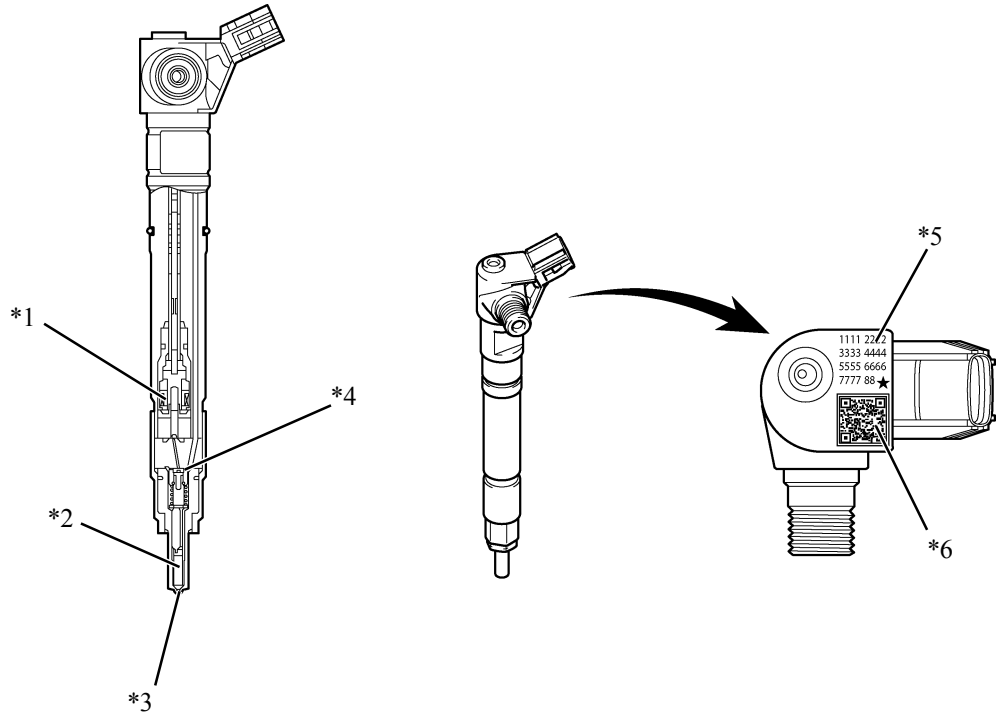
■ INJECTOR

1. Construction

- Each injector assembly consists of a nozzle needle, a control plate and a solenoid valve.
- An injector compensation value and a Quick Response (QR) code containing encoded characteristics of the injector are printed on each injector.
- The injector compensation value and QR code contain various pieces of information regarding the injector, such as model code and injection volume correction.



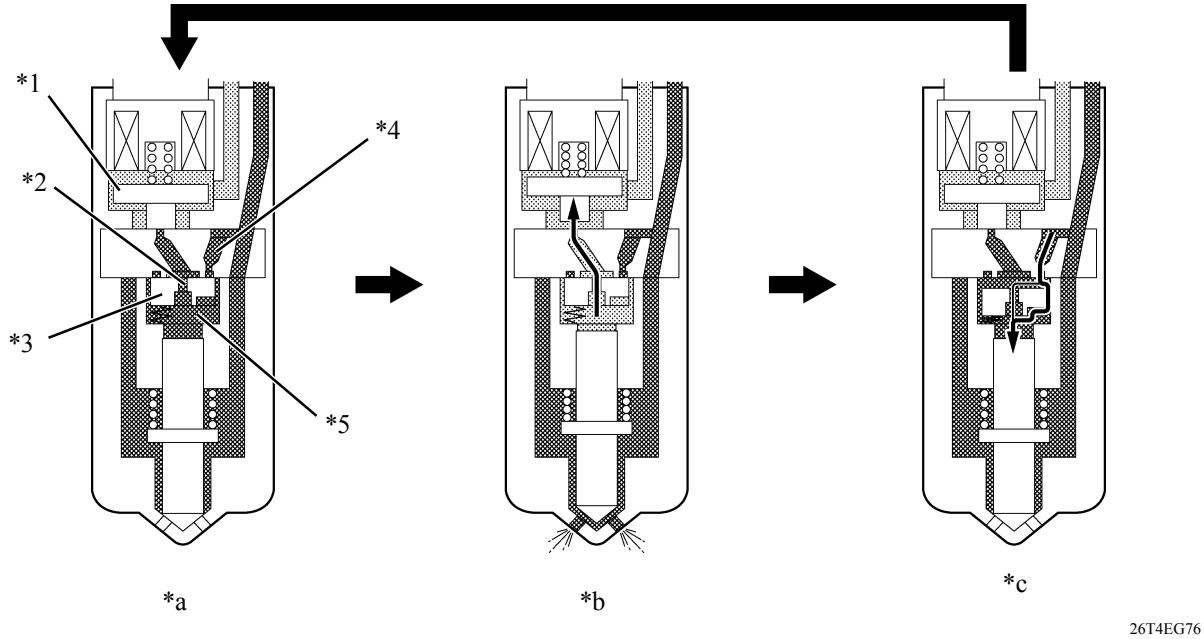
26T4EG72

▸ Text in Illustration ◂

*1	Solenoid	*2	Nozzle Needle
*3	Low Suck Volume Nozzle	*4	Control Plate
*5	Injector Compensation Value	*6	QR Code

2. Operation

- Current flows through the solenoid coil and the valve is pulled up.
- Fuel flows out from the orifice (out) in the control chamber.
- The fuel pressure in the control chamber drops.
- The nozzle needle moves up due to the differential pressure above and below the nozzle needle.
- Fuel is injected through the nozzle.
- Current through the solenoid coil is stopped and the control valve is closed.
- Fuel flows into the control chamber through the orifice (in) and the control plate moves down.
- The pressure in the control chamber increases causing the force acting above and below the nozzle needle to reverse due to the fuel pressure.
- The nozzle needle moves down and closes to stop injection.
- When the control chamber pressure equalize, the control plate rises due to the force of the spring.



Text in Illustration

*1	Control Valve	*2	Out-orifice
*3	Control Plate	*4	In-orifice
*5	Control Chamber	-	-
*a	Before fuel injection	*b	Fuel injection
*c	After fuel injection	-	-
26T4EG100	High Fuel Pressure	26T4EG101	Low Fuel Pressure