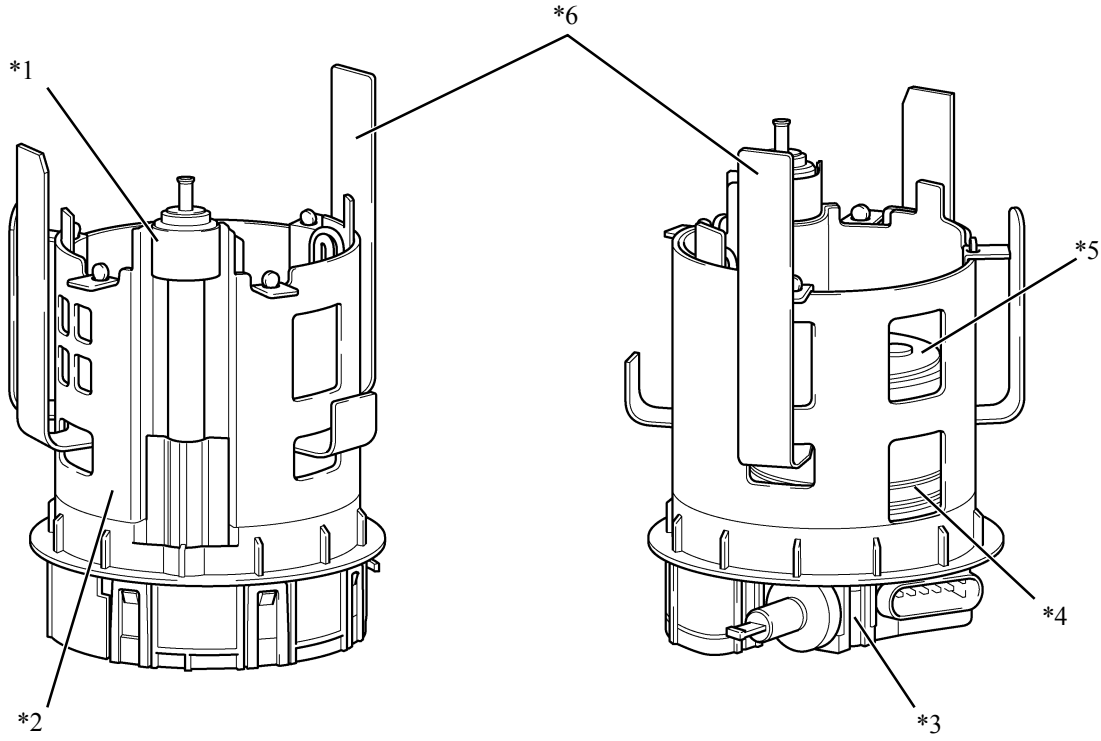
■ UREA PUMP

1. Construction

A urea pump is used, and is positioned in the bottom of the urea tank sub-assembly.



Text in Illustration

*1	Float Sensor	*2	Urea Solution Temperature Sensor
*3	Pressure Sensor	*4	Filter
*5	Pump Motor	*6	Heater

2. Function

The urea pump has the following functions:

Function	Outline
Pump Function	While performing feedback control according to the pressure sensor inside the urea pump, the pump raises the pressure to approximately 500 kPa, sending urea solution to the urea injector set.
Heating Function	The heater inside the urea pump is operated to thaw the urea solution so that exhaust gas can be purified even when the ambient temperature is low and the urea solution freezes. The heater turns on and off according to the urea solution temperature sensor inside the urea pump.
Filter Function	Foreign matter that enters the urea tank sub-assembly is collected by the filter inside the urea pump, preventing foreign matter from getting jammed in the urea pump and urea injector set.
Level Gauge Function	The fluid level position is detected by the float sensor inside the urea pump in order to detect the remaining quantity of urea solution inside the urea tank sub-assembly.