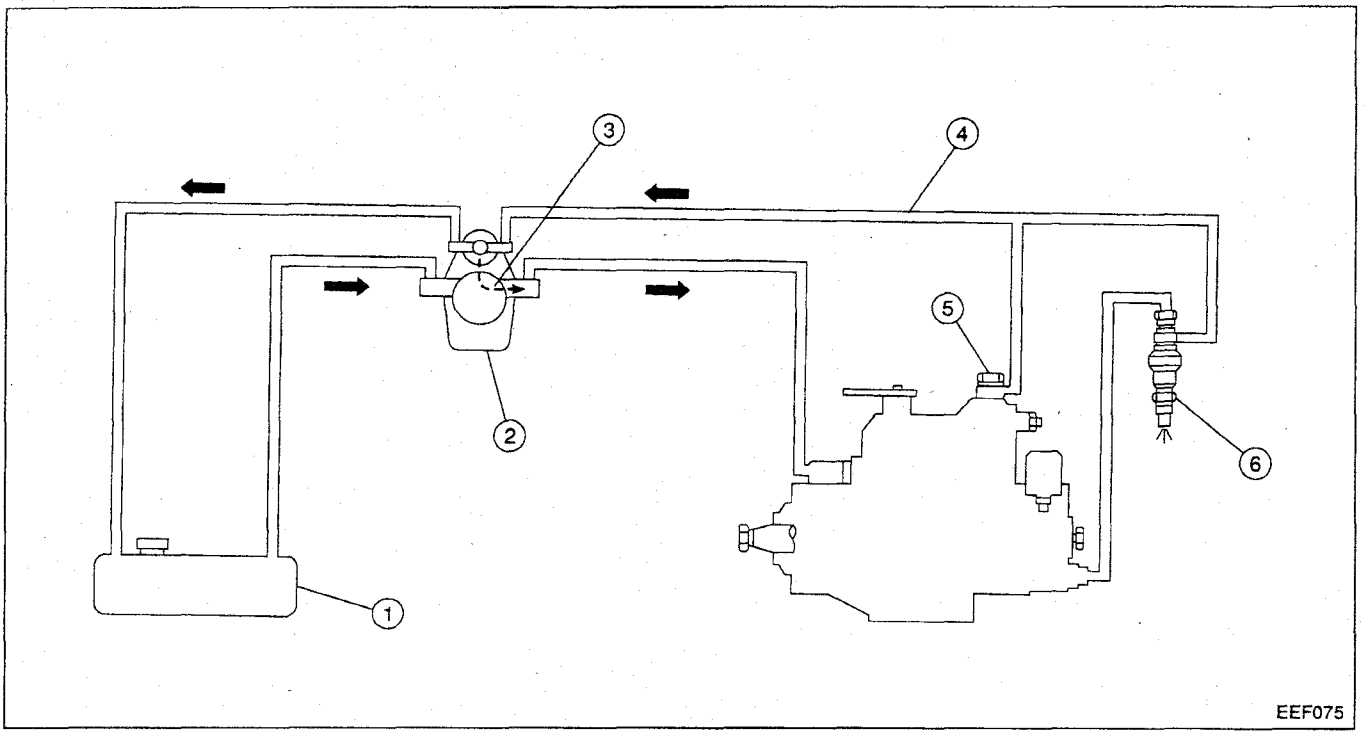
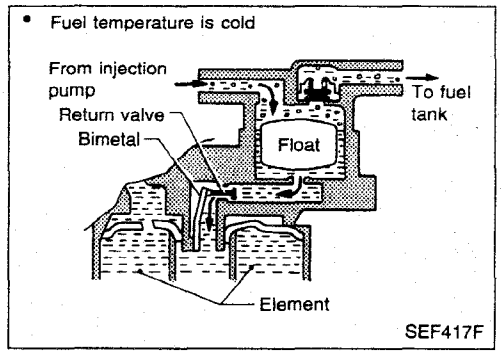
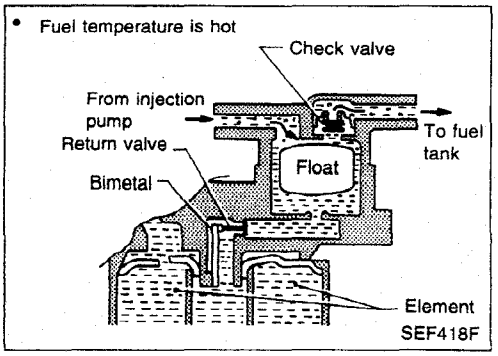
Fuel Return Control System

- **Models for Europe and cold areas incorporate the fuel return control system.**



① Fuel tank
② Fuel filter
③ By-pass passage (Fuel temperature is cold)
④ Fuel return passage
⑤ Overflow valve
⑥ Injection nozzle





Fuel Return Control System (F.R.C.S.) prevents clogging of the fuel filter by circulating overflow fuel warmed by the fuel injection pump when ambient temperature is low. The float valve in the system prevents trapped air from circulating through the fuel line and the check valve prevents reverse flow of fuel from the fuel tank.
When the fuel temperature is above 30°C (86°F), a bimetal valve activates to stop fuel circulation.