

**17. HEAT CONTROL VALVE (2F ENGINE ONLY)**

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## 17. HEAT CONTROL VALVE (2F Engine Only)

### DESCRIPTION

Under cold condition, this device serves to make fuel vaporization easier for better driveability by quickly heating up the intake manifold with the hot gas from the exhaust manifold. After warming up, this device keeps the intake manifold at proper temperature.

### OPERATION

[At cold engine]

- Since the bimetal is expanded toward the outer side, the heat control valve shaft is subjected to counterclockwise torque.
- The exhaust gas passes above the heat control valve to quickly heat the intake manifold.

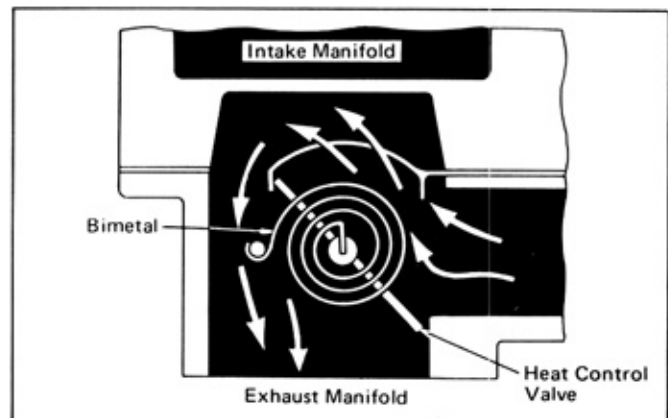


Fig. 17-1 At Cold Engine

[After warming up]

- The bimetal will be coiled toward the inner side so that the heat control valve shaft will be subjected to clockwise torque.
- The exhaust gas then passes under the heat control valve and maintains the intake manifold at suitable temperature.

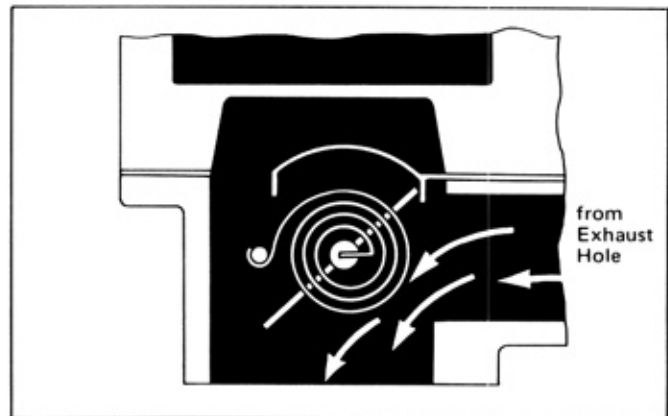


Fig. 17-2 After Warming Up

### INSPECTION

- When the heat control valve shaft is turned by hand, the valve should move smoothly to the stopper, and when released, it should return to the other stopper.

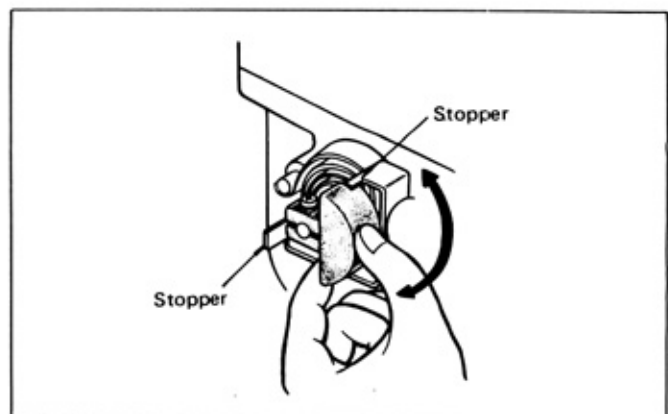


Fig. 17-3 Inspection

