

1974-79 EXHAUST EMISSION SYSTEMS

Toyota Hot Idle Compensator

3-445

1978-79 Models

DESCRIPTION

The hot idle compensator valve is located on the air cleaner and works to supply additional air to the intake manifold when high temperature conditions exist. This helps maintain the proper air/fuel mixture under these conditions.

OPERATION

The thermo wax portion of the hot idle compensator valve is located inside the air cleaner. This thermo wax responds to temperature conditions. When it senses a high-heat condition, it opens to allow some air to flow directly from the air cleaner to the intake manifold.

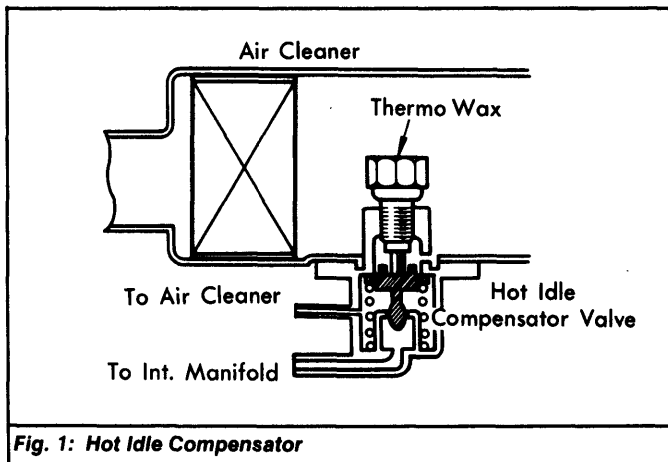


Fig. 1: Hot Idle Compensator

TESTING

HOT IDLE COMPENSATOR VALVE

- 1) Remove hot idle compensator valve from air cleaner. Thermo wax should close valve at temperature listed. See THERMO VALVE CLOSING TEMPERATURES table. Check valve by placing finger over fitting to air cleaner line. Blow into intake manifold fitting. No air should pass.
- 2) Now place thermo wax portion of hot idle compensator valve in hot water. DO NOT allow water to get inside valve. Place finger over fitting to air cleaner. Blow into intake manifold fitting. Air should pass. If valve does not respond as described, it must be replaced.

THERMO VALVE CLOSING TEMPERATURES

Application	Closing Temp. °F (°C)
Corolla	
2T-C (1600 cc) Engine	86 (30)
3K-C (2000 cc) Engine	81 (27)
Cressida (4M)	72 (22)