

1974-79 EXHAUST EMISSION SYSTEMS

Fiat Thermostatic Air Cleaners

All Models

DESCRIPTION

The Thermostatic Air Cleaner system maintains the temperature of the air entering the carburetor at a point where the carburetor can be calibrated much leaner to reduce hydrocarbon (HC) emissions and also improve warm-up operations and reduce carburetor icing. The system consists of an air cleaner assembly with a wax-type temperature sensing unit, heated air hose and a heat shroud (on exhaust manifold).

OPERATION

The air cleaner draws cold air directly from the engine compartment and heated air through a hose connected to a shroud on the exhaust manifold. A blend door in the air cleaner snorkel is used to mix the heated and cold air. The door is controlled by a wax-type thermostat. The thermostat is calibrated to maintain a constant air temperature of 73-82°F (23-28°C).

MAINTENANCE

Every 15,000 miles, clean air cleaner filter element and check operation of blend door and return spring. Every 30,000 miles, replace air cleaner filter element. If vehicle is operated mainly in heavy traffic conditions or dusty areas, change air cleaner filter element every 7500 miles.

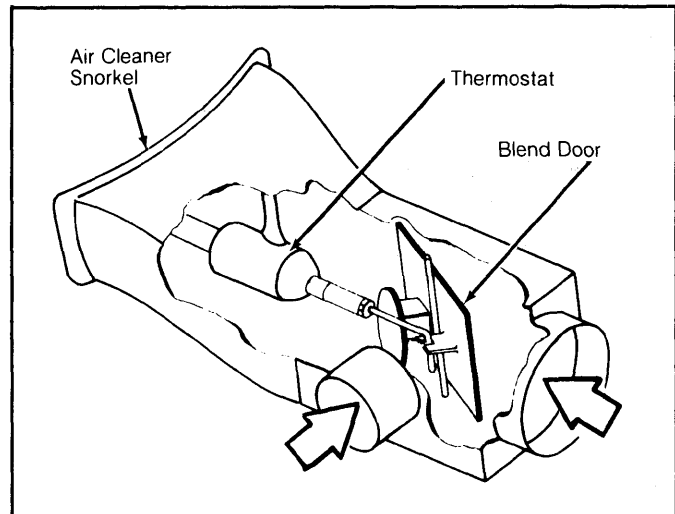


Fig. 1: Cutaway View of Air Cleaner Snorkel

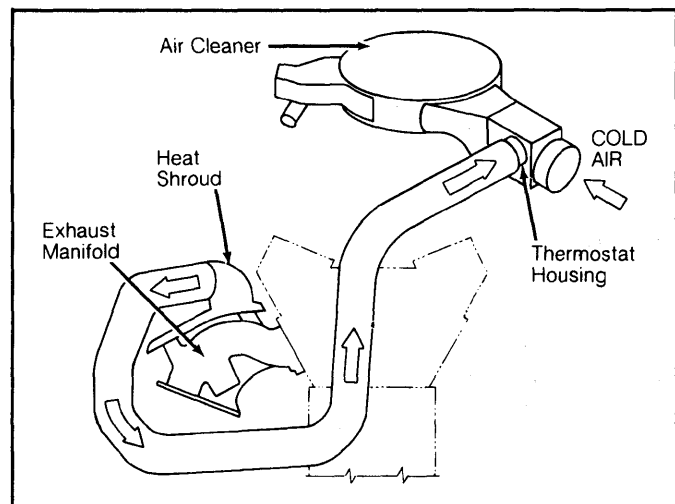


Fig. 2: Thermostatic Air Cleaner System (Typical)