

RENAULT

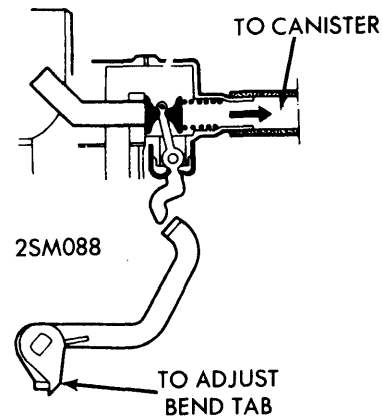
Renault 10
Renault 12
Renault 15
Renault 16
Renault 17

DESCRIPTION

All Renault vehicles are equipped with a Fuel Vapor Recuperation System which is designed to prevent fuel vapors from being emitted into the atmosphere. Components of the system are a non-vented fuel tank filler cap, an expansion tank, a carbon canister filled with activated charcoal, a control valve (built into the carburetor float chamber), and a series of ventilation lines which are used to connect the various components.

OPERATION

Expanded fuel (caused by high ambient temperatures) and fuel vapors pass from the fuel tank to the expansion tank. Any liquid fuel entering expansion tank is returned to the main fuel tank as fuel level lowers during normal engine operation. Fuel vapors pass from the expansion tank through a ventilation line to the carbon canister where they are adsorbed by activated charcoal. High ambient temperatures will also cause fuel in carburetor float chamber to expand. When the engine is not running, the carburetor float chamber control valve is open to the carbon canister and fuel vapors from the float chamber pass to the canister where they are adsorbed by activated charcoal. A ventilation line is connected between the carbon canister and the carburetor. When the engine is running, intake manifold vacuum, acting on this vent line, causes fresh air to be drawn into the canister. This fresh air mixes with the fuel vapors and together they are drawn into the carburetor and intake manifold where they enter the combustion system and are burned. This action cleanses the charcoal and renews its storage capacity.



FLOAT CHAMBER CONTROL VALVE

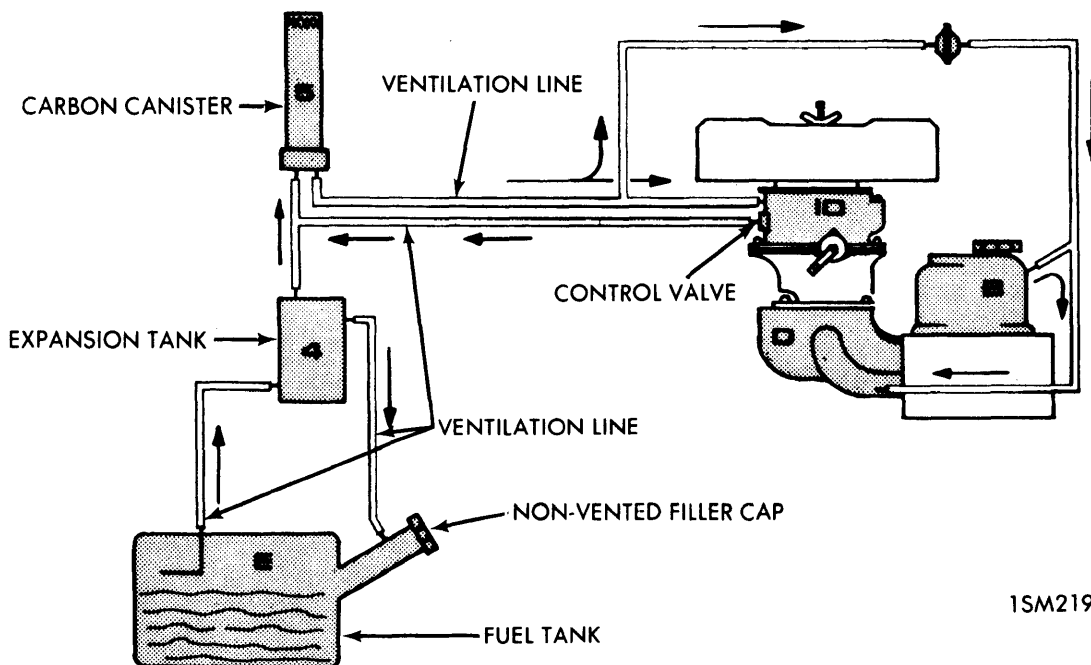
SERVICE PROCEDURES

Carburetor Float Chamber Control Valve – Valve is built into carburetor float chamber. When engine is stopped, valve should be open to carbon canister. When engine is running, valve should be open to atmosphere. Clearance between valve lever and actuating arm should be .012-.024" (Renault 10 & 16) and $.040 \pm .020$ " (Renault 12). Adjust to specifications by bending tab of actuating arm which contacts back part of cam.

NOTE – If carburetor has earlier valve with external hairpin spring, newer valve with internal coil spring must be installed.

MAINTENANCE

Every 9,000 miles clean foam filter which is located at atmospheric end of carbon canister.



1SM219

RENAULT EVAPORATIVE EMISSION CONTROL SYSTEM (TYPICAL)