

# 1975-79 EXHAUST EMISSION SYSTEMS

## Jeep Vacuum Throttle Modulator

### DESCRIPTION

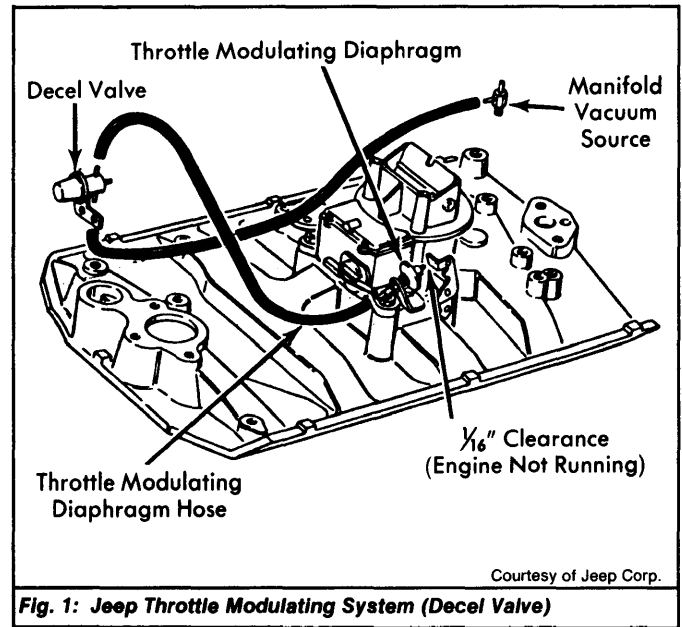
This system consists of a decel valve mounted on the intake manifold, and a throttle modulating diaphragm located at the carburetor base. The decel valve is connected by one hose to an intake manifold vacuum source, and by another hose to the throttle modulating diaphragm. The vacuum throttle modulator is used on some Federal Cherokee, Wagoneer and Truck models with V8 engine.

### OPERATION

During high speed deceleration when intake manifold vacuum reaches about 21-22 in. Hg, the decel valve triggers a vacuum signal to the throttle modulating diaphragm. This causes the plunger to extend, holding the throttle open slightly. This increased throttle opening allows more air to enter the engine to prevent overly rich deceleration mixtures.

### SERVICING

- 1) The decel valve calibration is preset at time of manufacture and normally does not require adjustment. If adjustment is required, go to next step.
- 2) With engine not running and curb idle speed previously set, position throttle lever against curb idle adjusting screw. Measure clearance between the throttle modulating diaphragm plunger and throttle lever. It should be  $\frac{1}{16}$ ". Adjust by loosening the jamnut and turning the diaphragm assembly.



**Fig. 1: Jeep Throttle Modulating System (Decel Valve)**