

## 1961-67 BUICK OPEN SYSTEM

### DESCRIPTION

An "open" crankcase ventilation system "Type 1", was used on 1961-62 California cars, all cars in 1963-64 and on all except California cars in 1965-67. System consists of an "open" breather cap, a ventilation valve assembly and a hose connecting ventilator valve to carburetor base or intake manifold.

### OPERATION

Air enters system through oil filler cap, down into crankcase, and circulates through engine. It then is drawn into the right rocker arm cover, up through ventilator valve, through a hose, into the carburetor throttle body and into intake manifold. The ventilator valve regulates the flow of fumes to intake manifold by use of manifold vacuum.

### SERVICE PROCEDURES

After periods of operation the ventilator valve tends to become clogged, which will eventually stop all crankcase ventilation. Without the ventilation system operating serious engine damage may result. It is very

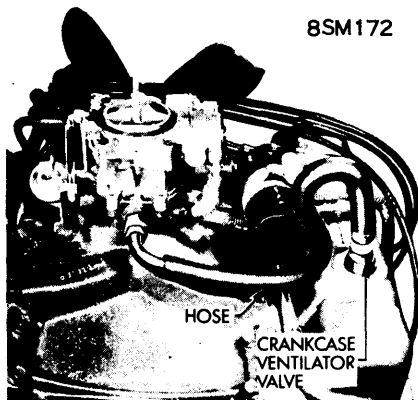
important to replace ventilator valve at regular intervals to insure proper operation of ventilation system. It is recommended that ventilator valve be replaced on 1961-63 cars at every oil filter change and on 1964-67 cars every 12,000 miles.

### SYSTEM CHECKING

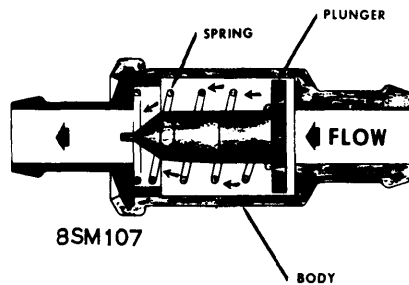
**NOTE** - An engine may idle slow or rough due to a clogged ventilator valve; therefore, never adjust carburetor idle without first checking crankcase ventilator check valve. Test system as follows:

#### Testing Procedure (1961-67)

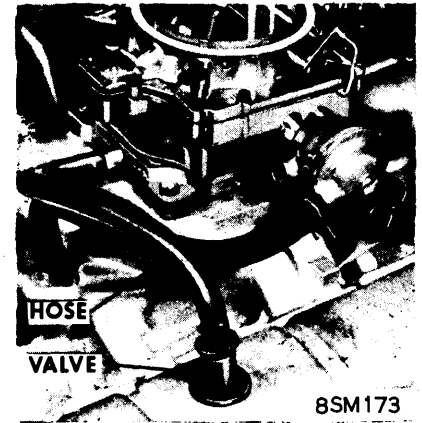
With tachometer attached to engine and engine adjusted to normal idle speed, squeeze valve hose off to stop air flow. If idle speed drops 60 RPM or more, ventilator system is functioning properly. If idle speed drops less than 60 RPM, system is probably clogged, (install new valve and recheck).



OPEN CRANKCASE VENTILATING SYSTEM 1963, 2-BBL.



CRANKCASE VENTILATOR VALVE



OPEN CRANKCASE VENTILATING SYSTEM 1964, 300" V8 4-BBL.