

# Crankcase Ventilation

## ROOTES GROUP CLOSED

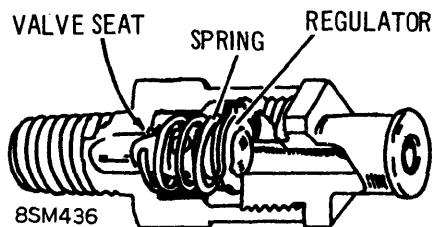
Sunbeam (1969-70)  
 Arrow Sedan (1969-70)  
 Alpine Coupe (1969-70)  
 Alpine G.T. (1969-70)

### DESCRIPTION

Sunbeam crankcase ventilation system components consist of a regulating valve, flame trap and three connecting hoses. Regulator valve is connected, by one hose to either oil filler tube on rocker cover or tappet chamber cover plate. Flame trap is connected by hose to a connection on carburetor, and by a second hose to a connection on rocker cover.

### OPERATION

At idling, inlet manifold vacuum is high enough to draw regulator valve onto its seat in regulator body, allowing only a small amount of air to pass through.



CRANKCASE VENTILATION VALVE

As throttle is opened, manifold vacuum decreases, spring lifts valve from its seat. Crankcase fumes and air are now drawn into inlet manifold, allowing clean ventilating air to pass from carburetor intake through flame trap, into engine.

### MAINTENANCE

**Regulator Valve, Testing** – Remove hose from regulator valve.

1) Using a short rod, push valve downward against its seating. Remove rod, check that valve moves away from its seat.

2) Run engine making sure it idles properly. While idling it should be possible to push valve against its seat without altering slow running performance.

3) Open throttle quickly (about 3000 RPM), then release throttle. Sudden closing of throttle should allow engine to idle correctly.

4) If correct operation of ventilation valve cannot be obtained, spring should be replaced or complete valve changed.

**Regulator Valve, Cleaning** – Disassemble and check condition of valve seat and valve. If worn a new valve assembly must be used. Check condition of spring, if damaged or corroded it must be replaced. When reassembling unit, make sure spring is correctly located in body and that valve is not tilted across body.