

# Crankcase Ventilation

## 1961-69 CORVAIR OPEN & CLOSED SYSTEMS

### DESCRIPTION

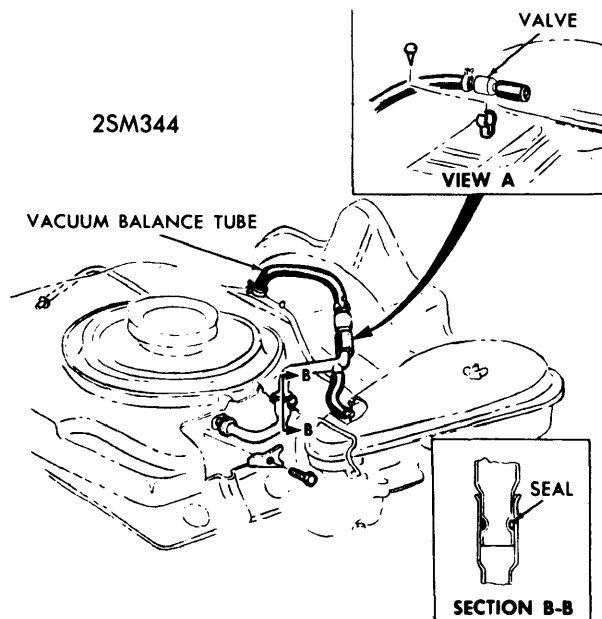
1961-69 Corvaire engines use either an "open" or "closed" crankcase ventilation system. Both systems utilize either a regulating valve or a fixed orifice, a hose connecting regulating valve to vacuum balance tube, and a hose connecting regulating valve to crankcase and air cleaner. "Closed" system uses a non-vented oil filler cap. "Open" system uses a vented oil filler cap.

### OPERATION

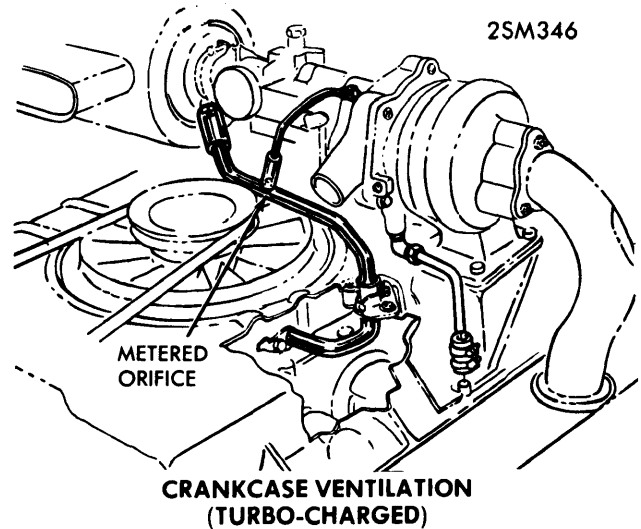
Air enters system either through air cleaner ("closed" system), or through vented oil filler cap ("open" system). Air is drawn through engine, drawing crankcase fumes with it. Combined mixture is drawn through regulating valve into intake by intake manifold vacuum. Regulating valve insures that air/fuel mixture will not be leaned excessively under conditions of high manifold vacuum at idle. At higher engine speeds, manifold vacuum lowers, and valve opens to admit more air flow. At full throttle ("closed" system), excess fumes are drawn through hose to air cleaner, combined with air/fuel mixture, and burned in combustion chamber. At full throttle ("open" system), excess fumes escape through vented oil filler cap.

### SERVICE PROCEDURE

Check all hoses and fittings for deterioration or plugging. Regulating valve should be cleaned, tested, and replaced if necessary every oil change. If system has a fixed orifice, insert a 5/64" drill through orifice and twist to clean. Air filter on "closed" system should be cleaned and replaced if necessary, every oil change. Oil filler cap on "open" system should be cleaned in solvent and air dried.

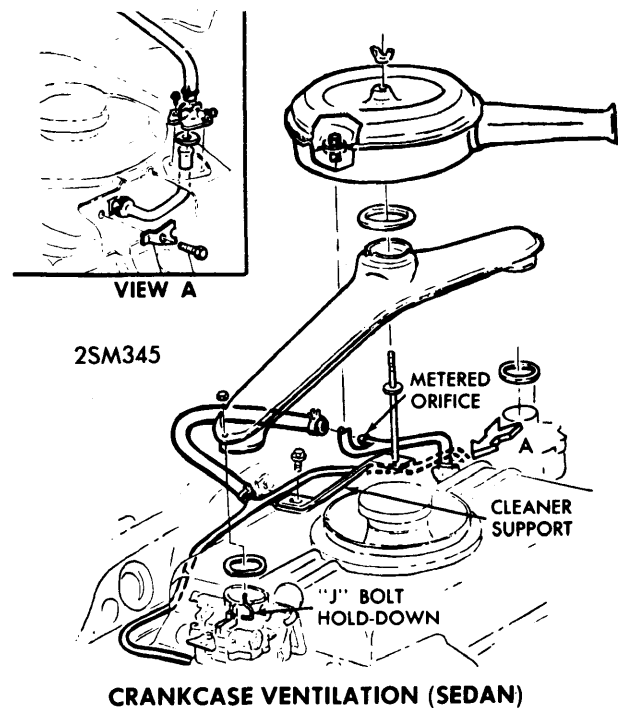


CRANKCASE VENTILATION



### TESTING PROCEDURE

- 1) -Connect a tachometer to engine, set parking brake, start engine.
- 2) Disconnect hose or fitting leading to intake side of regulating valve, and cover intake side of valve with finger.
- 3) Engine speed should drop at least 50 RPM. If less, regulating valve is plugged, or orifice is blocked.



CRANKCASE VENTILATION (SEDAN)