

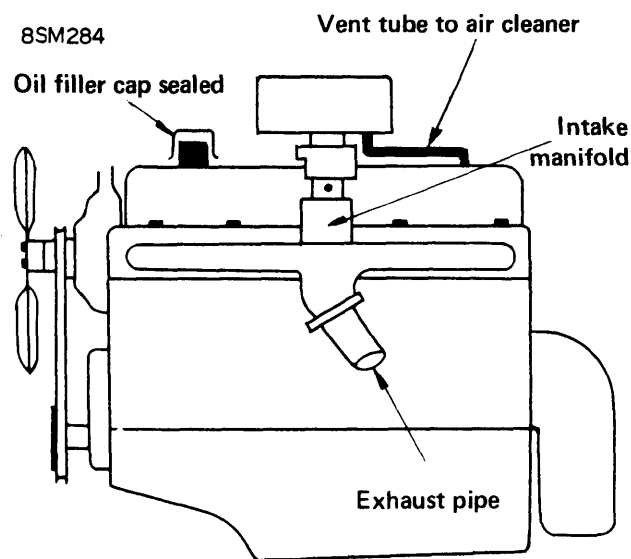
## DATSUN CLOSED

### DESCRIPTION

There are two types of crankcase control devices. One is the tube-to-air cleaner device, and the other is the so-called combination system with valve controlled by intake manifold vacuum and tube-to-air cleaner device. Tube-to-air cleaner device is used on Datsun 1600 & 2000 Sports, Patrols and all Pick-ups prior to 1968. Combination system is used on Datsun Sedans, Station Wagons, 240 Z Sports Car and 1968 and later Pick-ups.

### OPERATION

**Tube-to-Air Cleaner System** - The system consists of a tube connecting the rocker cover to the carburetor air cleaner. Flow is induced into the tube by pressure



TUBE-TO-AIR CLEANER SYSTEM

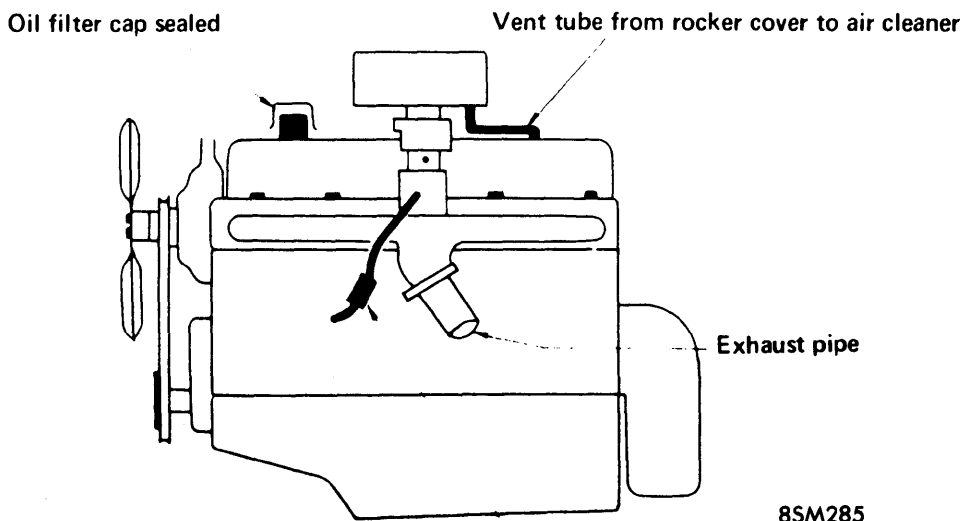
drop created when engine air flows through the air cleaner. This is referred to as a "sealed" system which provides an escape path for the blowby gases with no provision for the introduction of ventilation air into the crankcase. In connection with this system the oil filler cap and the oil level gauge have been changed from the open type to a sealed type to prevent the escape of crankcase emission.

**Combination System** - This system provides for the return of blowby gases to both the intake manifold and carburetor air cleaner. In addition to the already mentioned tube-to-air cleaner system, a variable orifice valve is provided to conduct crankcase blowby gases to the intake manifold. During part-throttle operation of the engine the intake manifold sucks the blowby through the valve. Normally, the capacity of the valve is sufficient, under these conditions, to handle the blowby plus some of the ventilating air. The ventilating air is then drawn from the clean side of the carburetor air cleaner, through the tube connection, into the crankcase. Under full-throttle conditions, the manifold vacuum is insufficient to draw the blowby through the valve, and the blowby flow goes through the tube-to-air cleaner in the reverse direction.

### SERVICE PROCEDURE

Once a year or every 12,000 miles, the positive crankcase ventilation system should be serviced as follows:

- 1) Check hoses and hose connectors for leaks.
- 2) Disconnect all hoses and blow them out with compressed air, and if any hose cannot be freed of obstructions, replace with new hose.
- 3) Check for proper function of crankcase ventilation control valve. If the valve is defective replace with a new assembly.



8SM285

Control valve

COMBINATION SYSTEM