

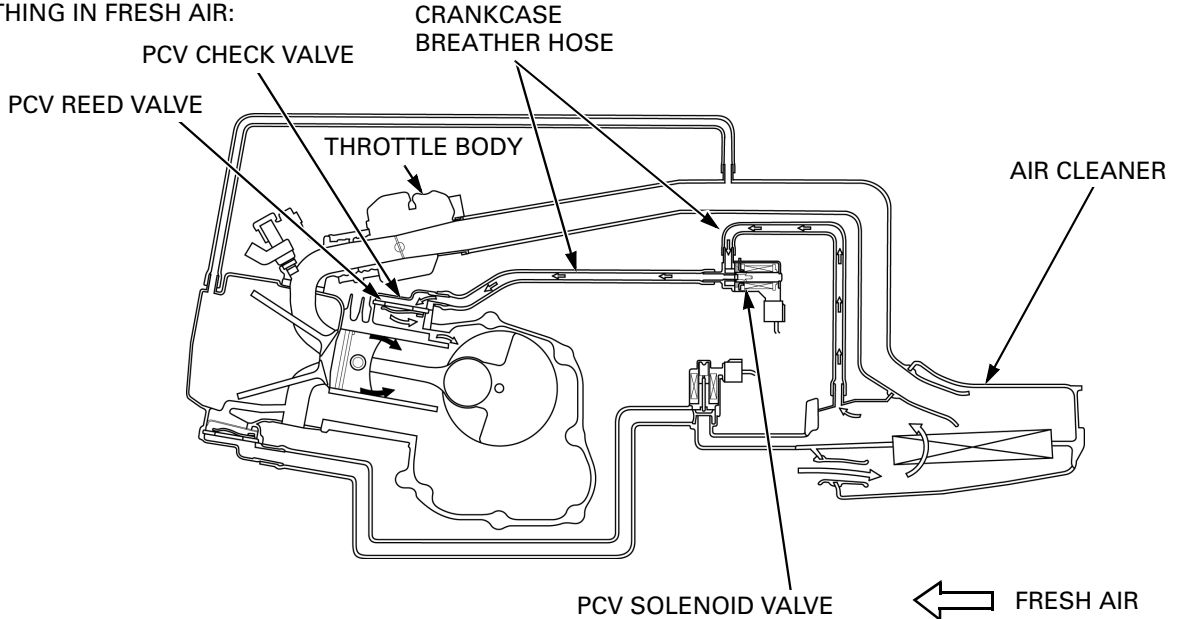
PCV (Positive Crankcase Ventilation) SYSTEM

This scooter utilizes PCV (positive crankcase ventilation) system which ventilates the crankcase by injecting fresh air. Properly ventilating the crankcase prevents the stagnant blow-by gas that contains gasoline or water vapor from contaminating the engine oil under the driving conditions that result in low engine oil temperature.

The PCV system consists of the air cleaner, PCV solenoid valve and PCV check valve with PCV reed valve.

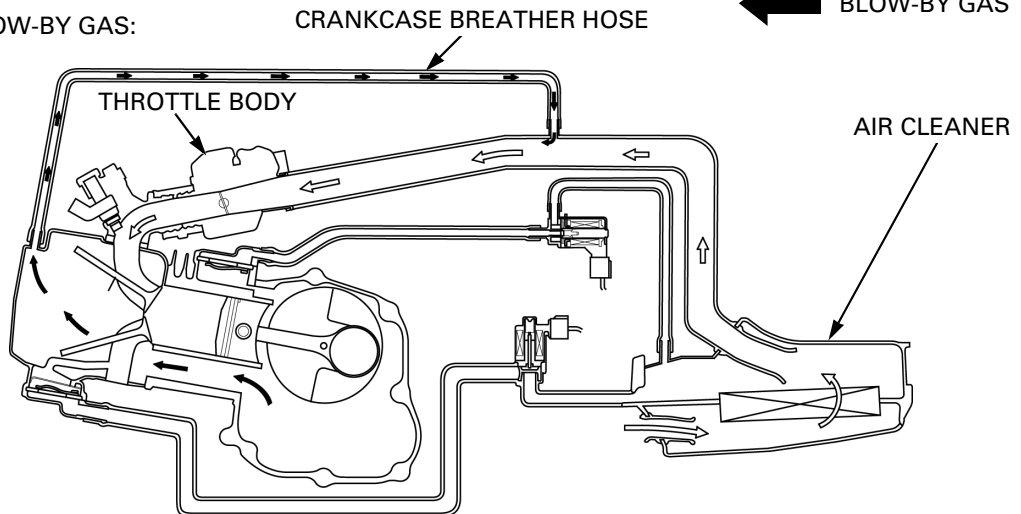
The PCV reed valve prevents the back-flow of blow-by gas to the air cleaner case.

BREATHING IN FRESH AIR:



← FRESH AIR
 ← BLOW-BY GAS

BREATHING OUT BLOW-BY GAS:



The solenoid valve maintains consistent engine idle speed by controlling the crankcase air flow depending on throttle opening and engine speed.

- The ECM signals the solenoid valve to choke airflow to maintain a stable idle speed.
- When throttle opening and engine speed increase, the ECM signals the solenoid valve to open and ventilate crankcase. The solenoid valve closes when the engine speed goes up to certain point.

