

TECHNICAL FEATURES

FUEL SUPPLY CUT ON ENGINE BRAKING

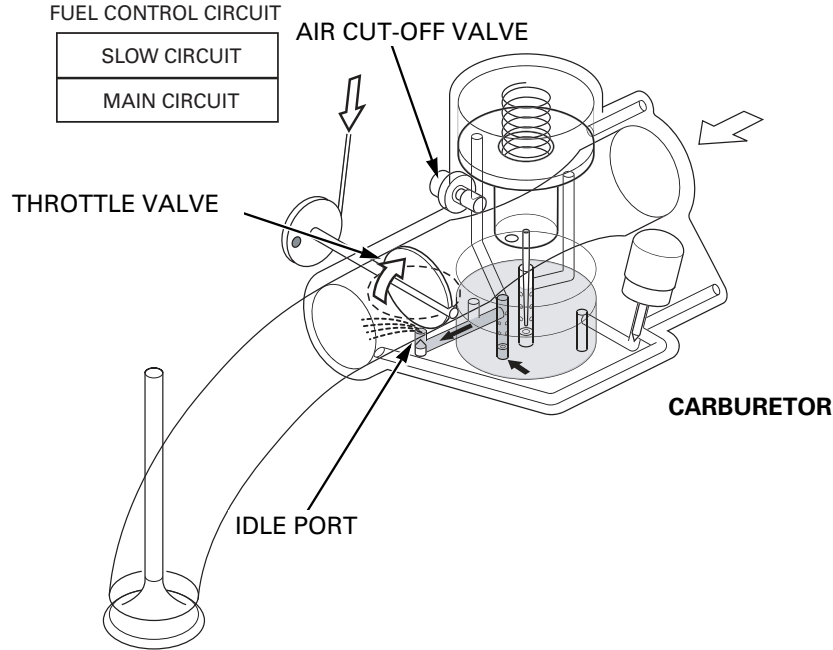
ENGINE CONDITION UNDER ENGINE BRAKING:

When throttle valve is closed and engine braking is used, engine lacks incoming air. As a result, misfiring occurs and unburned gas is discharged into atmosphere.

DECELERATION WITH CARBURETOR:

When throttle valve is closed and engine braking is used, intake manifold vacuum pressure increases. As air weighs lighter than fuel, more air is drawn into the manifold and air-fuel ratio goes out of proportion, resulting in misfiring.

Air cut-off valve temporarily provides richer air-fuel mixture by closing idle/slow air circuit in order to prevent misfiring which results in unburned gas being discharged into atmosphere.



DECELERATION WITH PGM-FI:

When throttle valve is closed and the engine braking is used, ECM detects completely closed throttle, according to output signal from TP sensor and CKP sensor. It cuts off the fuel supply into the cylinder by setting the fuel discharge duration to zero, preventing unburned gas from being discharged into atmosphere while saving fuel, resulting in better gas mileage.

