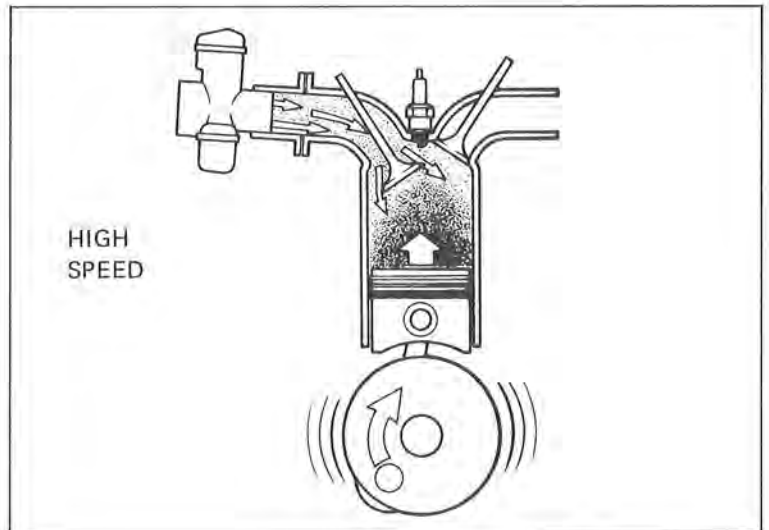




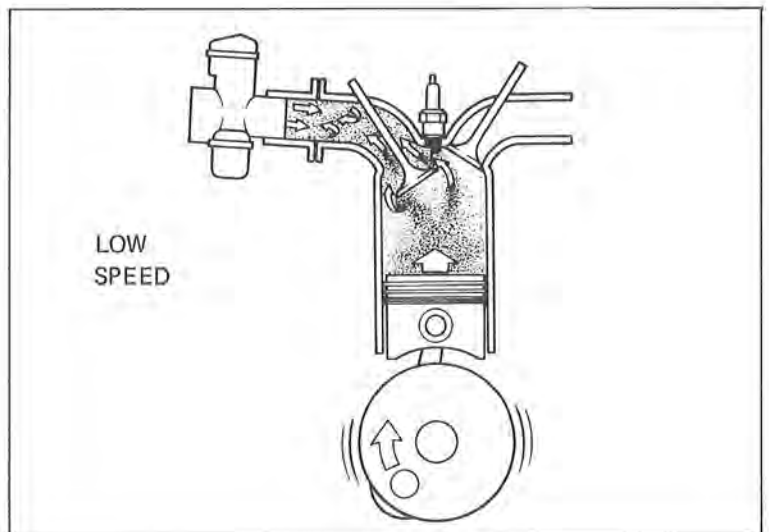
### 1. High torque at low and medium speeds

In the 4-stroke engine, intake valve closing is timed to prevent any air-fuel mixture in the cylinder from being forced back into the intake tract.

This is usually not a problem at high speed due to the high velocity of the air-fuel charge flowing past the intake valve into the cylinder.



However, at low and medium speeds, part of the air-fuel charge is forced back into the intake tract because of the reduced velocity of the air-fuel charge.



The reed valve prevents the air-fuel mixture from being forced back into the intake tract at low and medium speeds. This allows the engine to develop maximum torque at these speeds.

