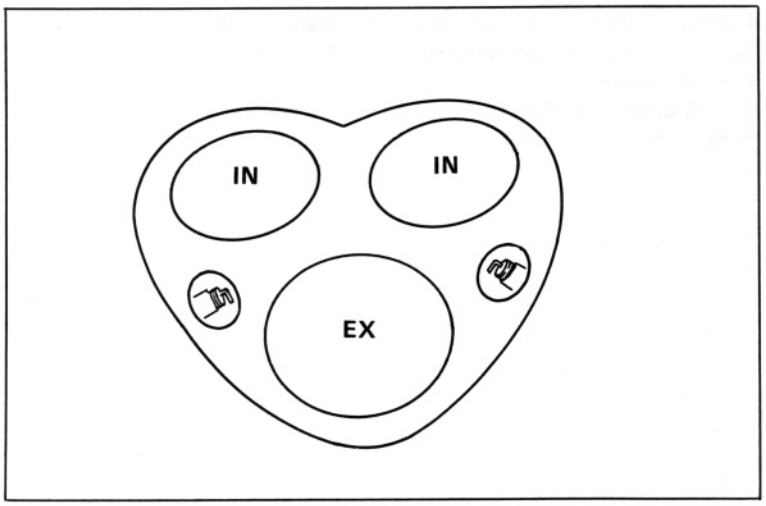
3 VALVES/2 SPARK PLUGS

To have the appeal of a V-twin engine and also provide good low-speed driveability, plenty of engine torque and high fuel economy, a 3-valve/2 spark plug head design is used. There are 2 inlet valves of 31 mm diameter each and 1 exhaust valve with a diameter of 41 mm.

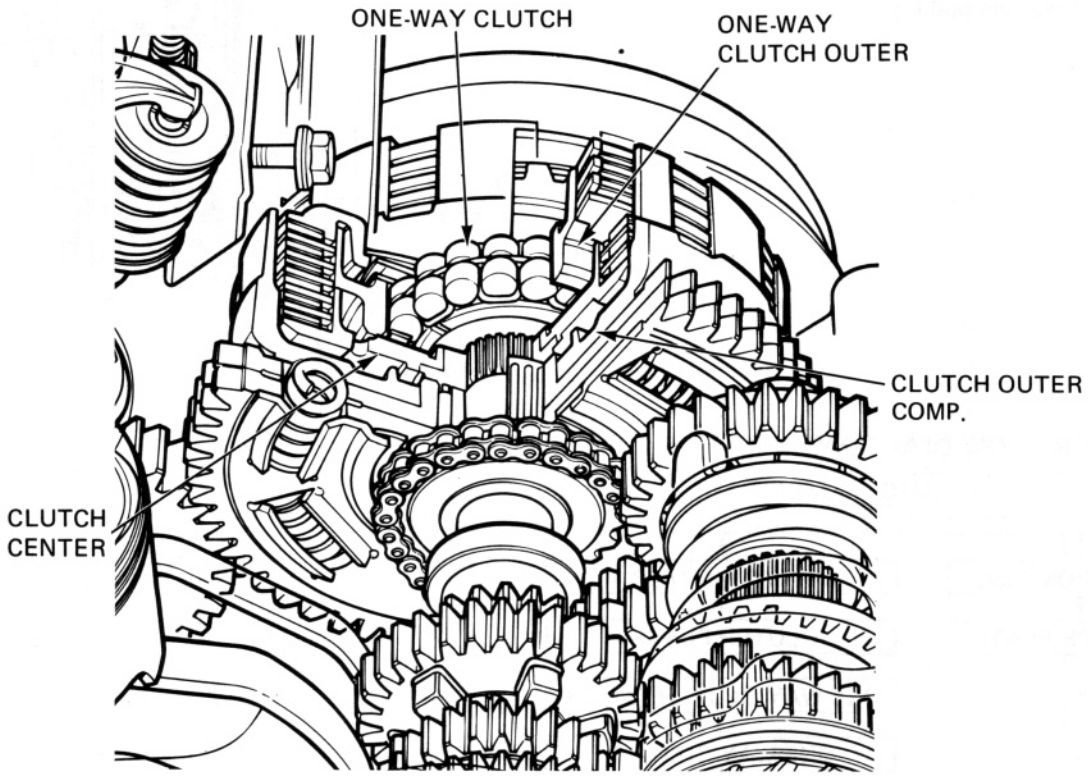
The spark plugs are located to provide the most rapid and complete combustion process: one on the left and one on the right side of the combustion chamber. This 2 spark plug design gives 30% better fuel economy and better driveability at low speeds when compared to a head with only one spark plug.



ONE-WAY CLUTCH SYSTEM

First time on a production motorcycle, this system has been proven on the race circuits of Europe in Hondas Gran Prix road racers.

Rear wheel lock up caused by rapid downshifting and the resulting high engine compression braking force; is prevented by the slippage of the one-way clutch.



- **Construction**

The one-way clutch is installed with the clutch center inside the clutch outer. Half the clutch plates are controlled by the one-way clutch. The one-way clutch allows those plates to slip when backloading force during deceleration might normally cause the rear wheel to lock-up.
Except for the one-way clutch, the primary driven gear/clutch assembly is a conventional design.