Basic Engine Components

Internal Parts

COMPONENTS OF THE ENGINE BLOCK
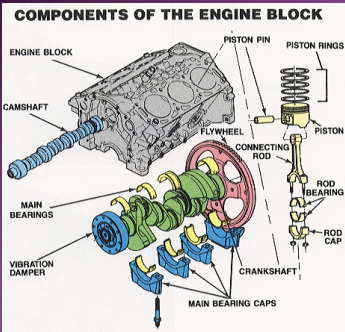
The Block

4-CYLINDER IN-LINE ENGINE BLOCK
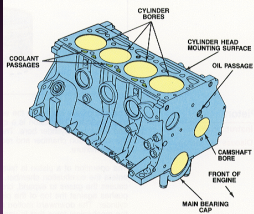
CYLINDER ARRANGEMENTS
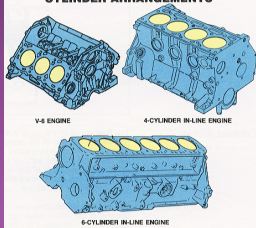
The Crankshaft
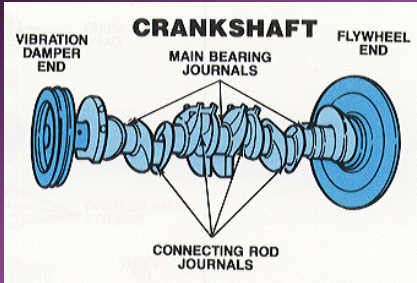
Piston & Connecting Rod
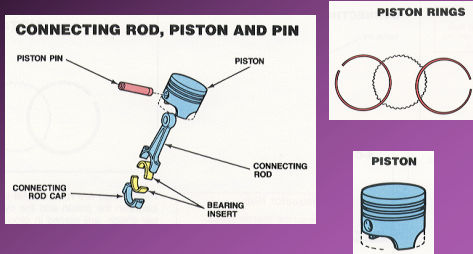
Crank, Piston, & Connecting Rod Working Together

Flywheel

FLYWHEEL ASSEMBLY

FLYWHEEL

CRANKSHAFT

FRONT OF ENGINE

Cylinder Head

CYLINDER HEAD
TOP VIEW

INTAKE VALVE PORT

SPARK PLUG BORE

EXHAUST VALVE PORT

COMBUSTION CHAMBERS

BOTTOM VIEW

CYLINDER HEAD ASSEMBLY

CYLINDER HEAD

HEAD GASKET

ENGINE BLOCK
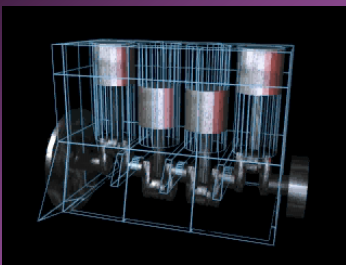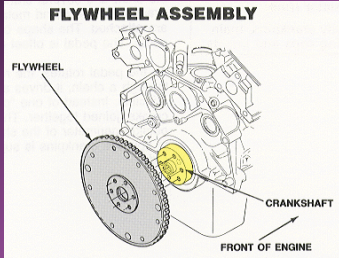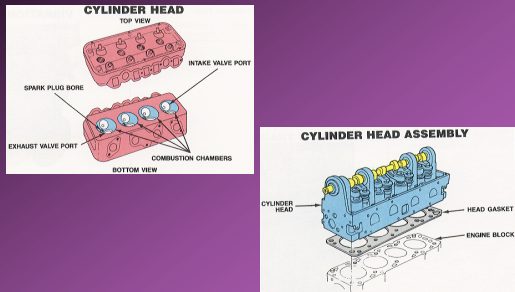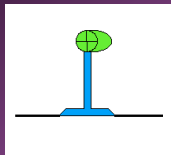
Valves

Valve Operating Systems
(Cam Shaft)
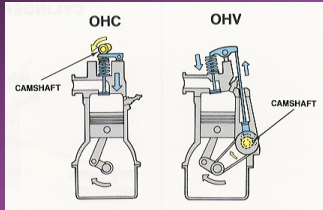
Valve Operating Systems
(Tappets/Lifters)
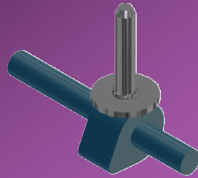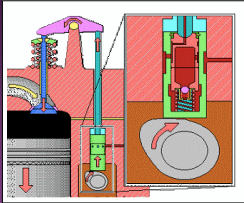
Valve Operating Systems
(Push Rods)
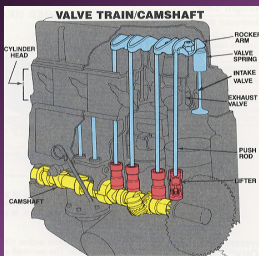
Valve Operating Systems
Rocker Arm
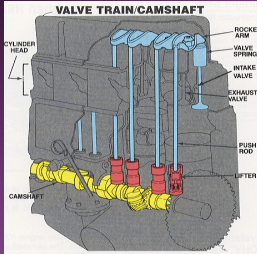
Valve Operating Systems
(Valve Springs)
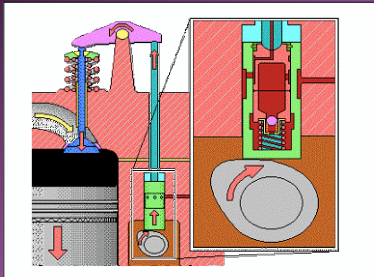
Valve Operating Systems

Valve Operating Systems

Putting It All Together