

# K-Jetronic Component Diagram



## Cold Start Valve

**Location:** Mounted to the right side of the intake manifold.

**Function:** Supplies a short burst of extra fuel during start-up.



## Idle Boost Valve

**Location:** Mounted to the right strut tower. (1.8L engines only)

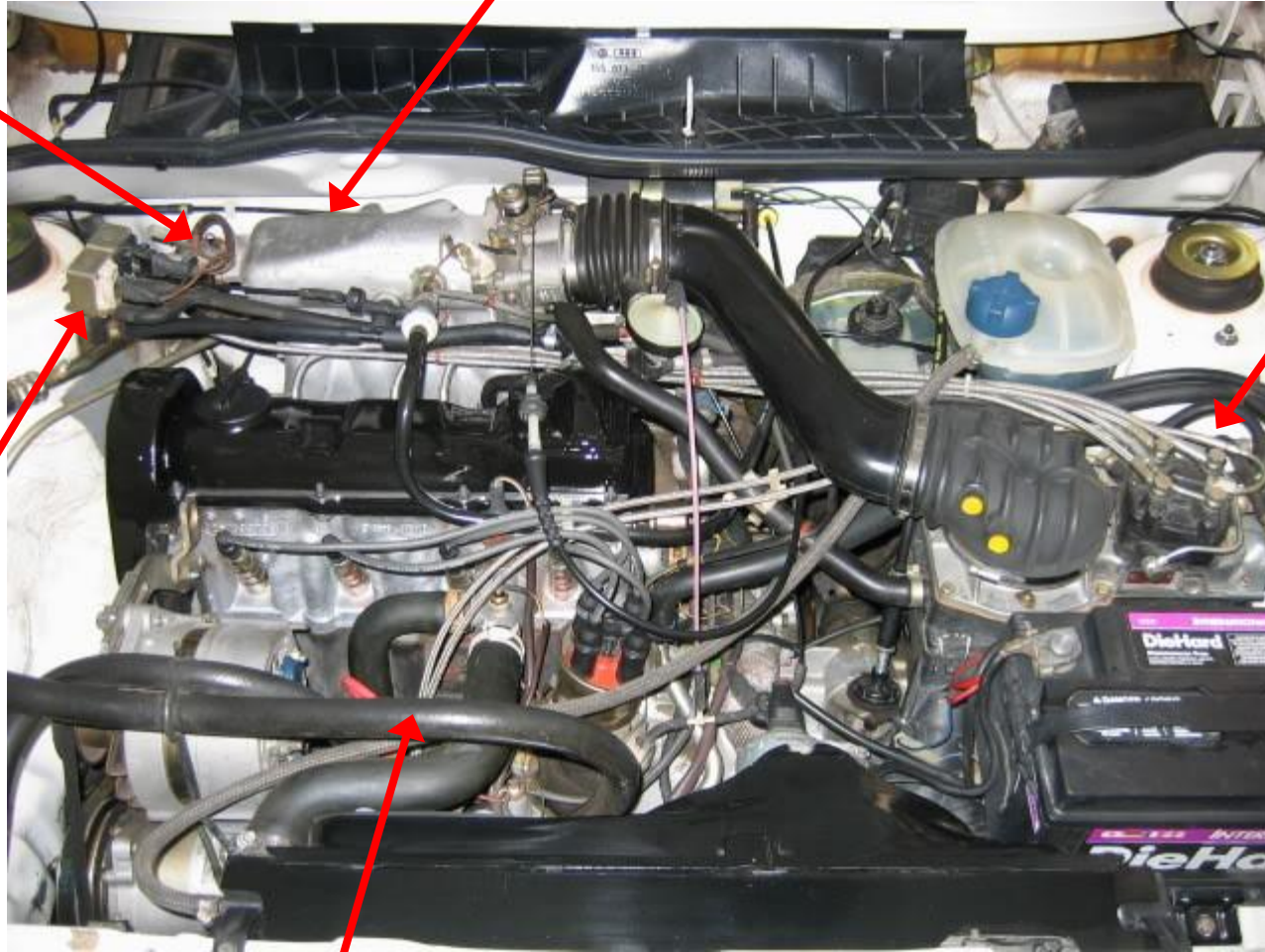
**Function:** Black valve boosts idle (supplies extra air) when rpms fall below a specified threshold; white valve boosts the idle when the A/C compressor clutch engages (installed only in cars factory-equipped with A/C). Other engines utilize a vacuum pump (not pictured) instead of boost valves.



## Auxiliary Air Regulator

**Location:** Mounted behind the intake manifold.

**Function:** Supplies extra, metered air during cold running.



## Frequency Valve

**Location:** Mounted to the back of the fuel distributor. (K-lambda only)

**Function:** Finely adjusts fuel pressure based on inputs from the Jetronic control unit, which receives signals from the oxygen sensor system. The valve opens & closes at a variable rate; this process is called *duty cycle*.



## Control Pressure Regulator

**Location:** Mounted to the front of the engine block, near cylinder #3.

**Function:** Similar to a carburetor choke, the CPR provides a richer fuel mixture when the engine is cold. When the engine is warm, the internal valve closes and excess fuel is returned to the fuel tank.



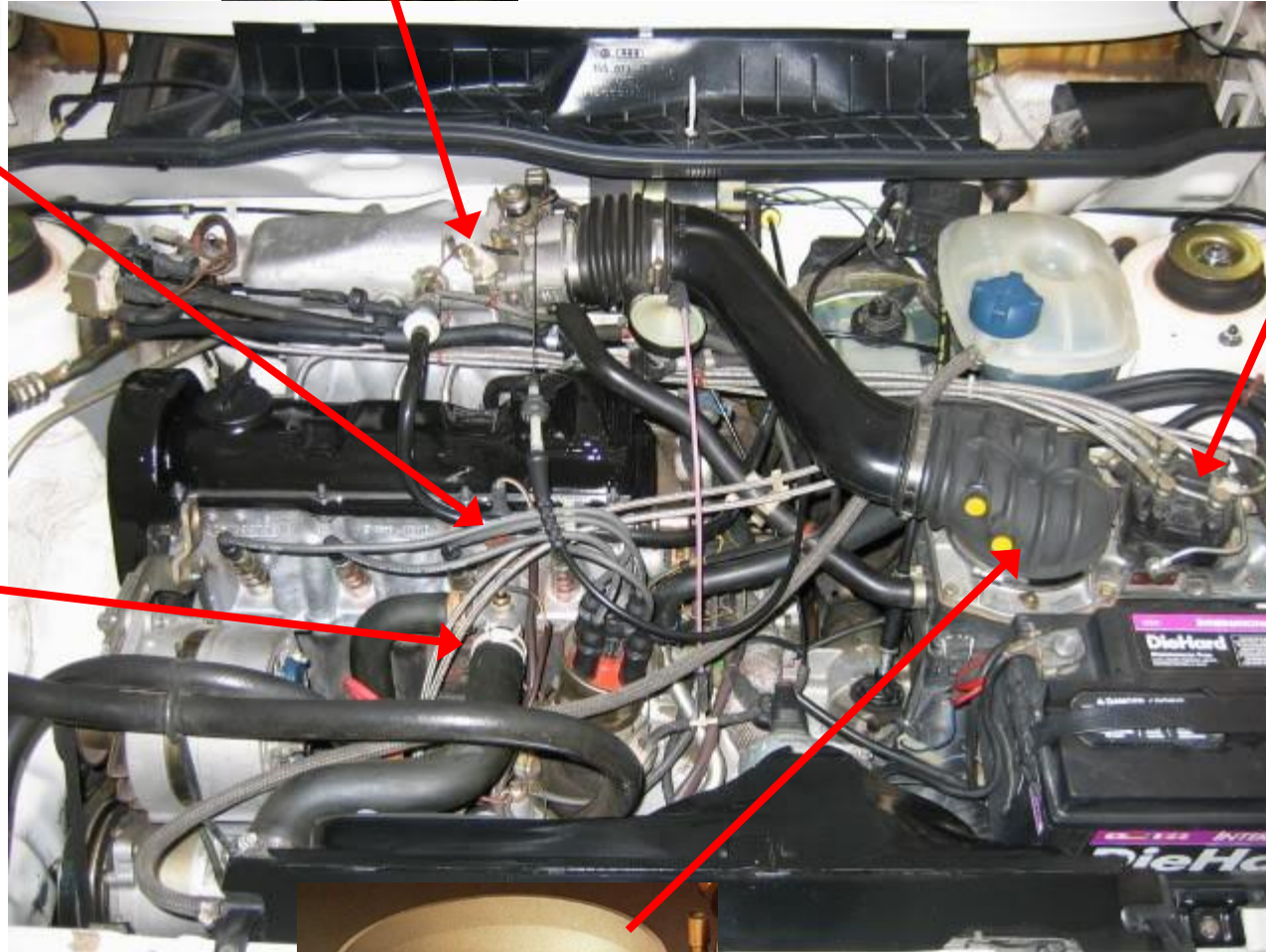




### Full-Throttle Switch

**Location:** Mounted to the top, front of the throttle body. (K-lambda only)

**Function:** Signals Jetronic control unit when the throttle valve is fully open for full-throttle enrichment.



### Thermo-Time Switch

**Location:** Mounted to the top of the coolant hose flange.

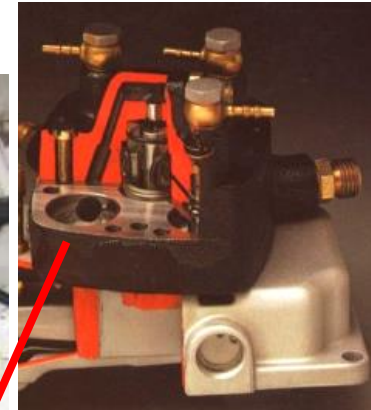
**Function:** Controls operation of cold start valve when engine is cold.



### Lambda Probe Thermo Switch

**Location:** Mounted to the underside of the coolant hose flange on 1.8L engines; others may be in a different location. (K-lambda only)

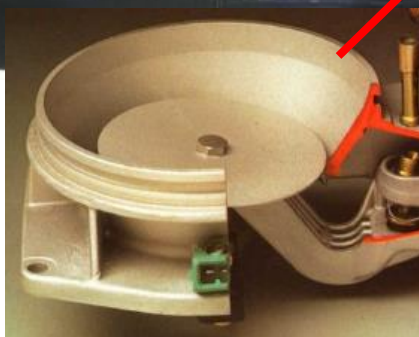
**Function:** Controls operation of oxygen sensor (Lambda) system.



### Fuel Distributor

**Location:** Mounted to the left of the airflow sensor plate.

**Function:** Routes fuel to the injectors, cold start valve, control pressure regulator, and fuel tank. The internal metering valves also maintain a constant pressure differential via a control plunger.



### Airflow Sensor

**Location:** Mounted to the right of the fuel distributor and is covered by a rubber boot.

**Function:** Measures all air being drawn in by the engine (aka metered air) and, in turn, works the fuel distributor's control plunger.

