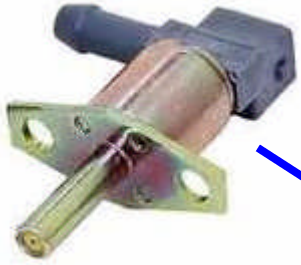


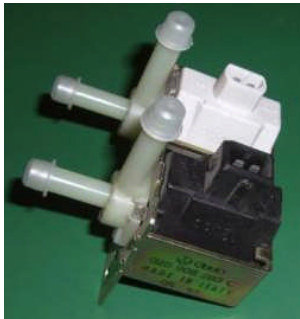
CIS Component Diagram



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. (JH engines only)

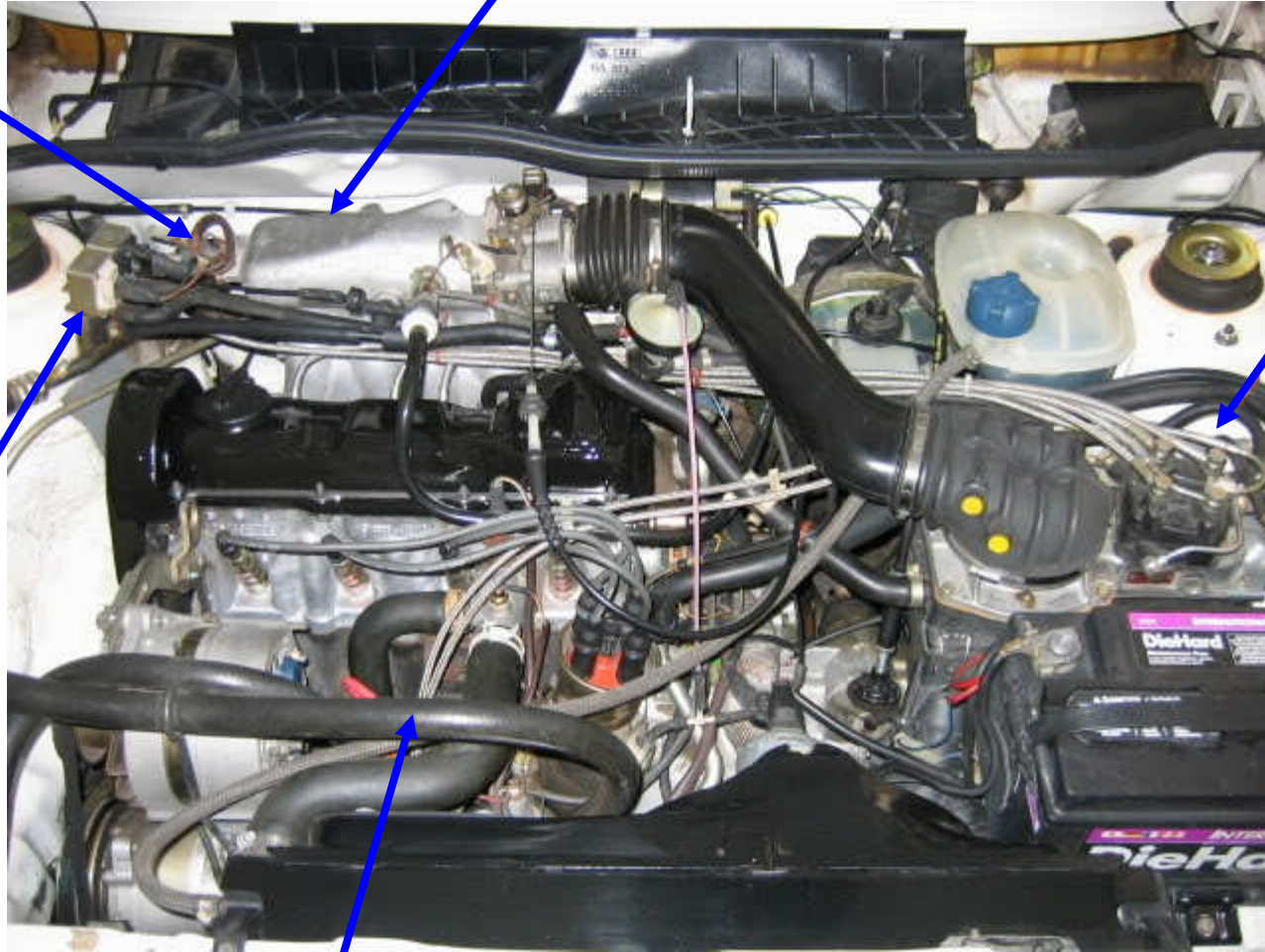
Function: Black valve boosts idle (supplies extra air) when rpms fall below a specified threshold; white valve boosts the idle when the A/C compressor clutch engages (installed only in cars factory-equipped with A/C). Other engines utilize a vacuum pump (not pictured) instead of boost valves.



Auxiliary Air Regulator

Location: Mounted behind the intake manifold.

Function: Supplies extra, un-metered air during cold running.



Frequency Valve

Location: Mounted to the back of the fuel distributor. (CIS-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.

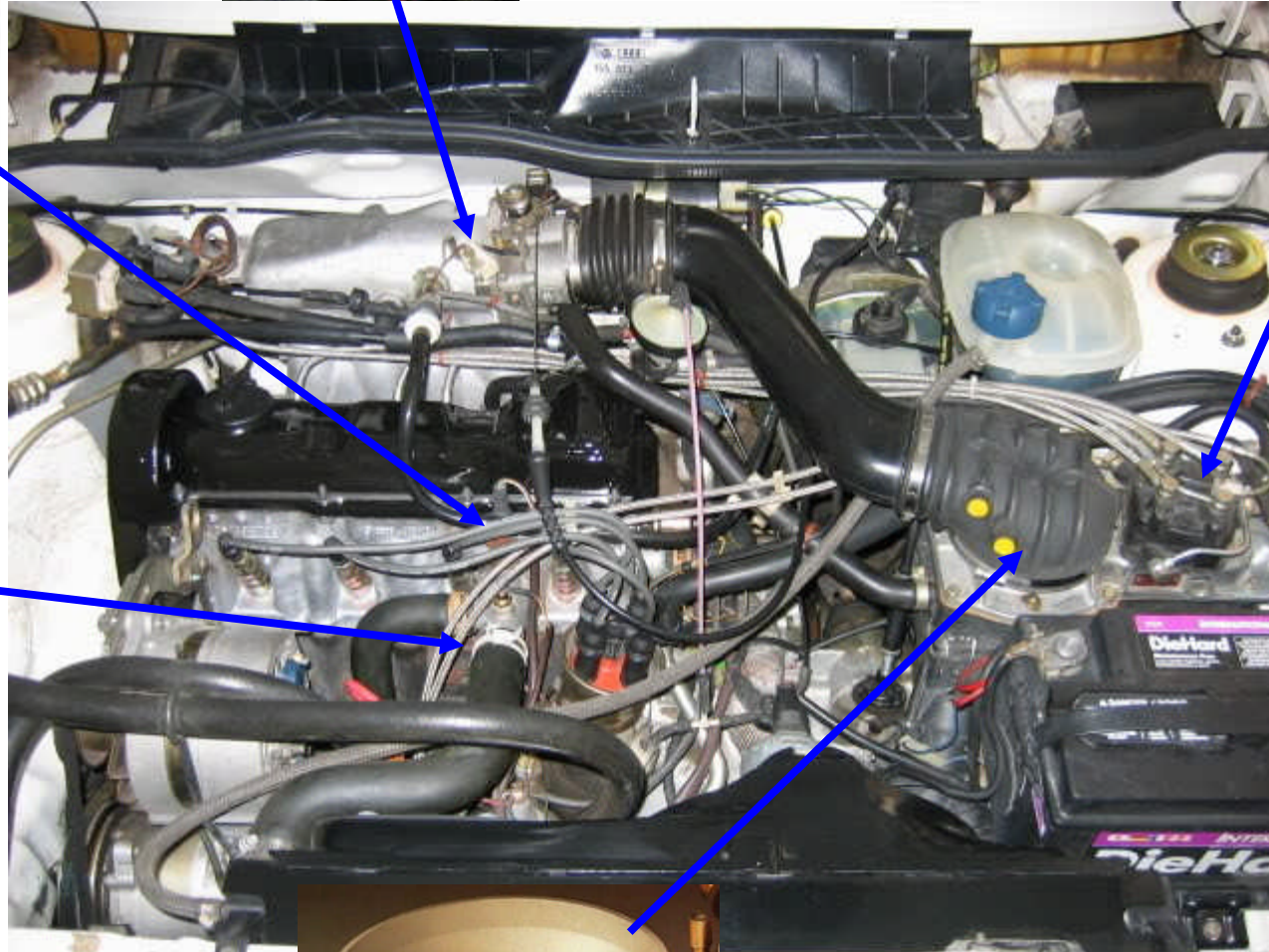




Full-Throttle Switch

Location: Mounted to the top, front of the throttle body. (CIS-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.

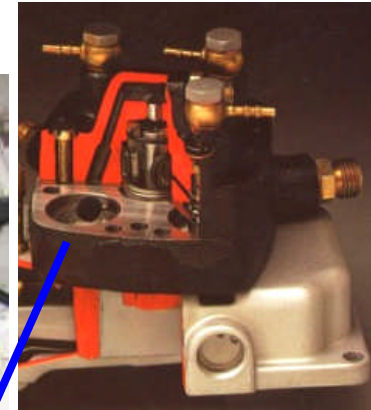
Function: Controls operation of cold start valve when engine is cold.



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. (CIS-lambda only)

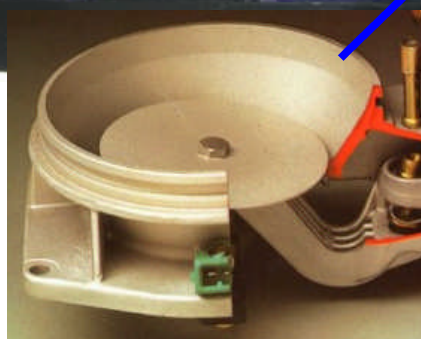
Function: Controls operation of oxygen sensor (Lambda) system.



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.

