Typical Engine Control System
(From Bosch Automotive Handbook)

Diagram of a typical Motronic system.
1 Fuel tank, 2 Electric fuel pump, 3 Fuel filter, 4 Pressure regulator, 5 Electronic control unit,
6 Ignition coil, 7 High-voltage distributor, 8 Spark plug, 9 Injection valve, 10 Throttle valve,
11 Trottle-valve switch, 12 Air-flow sensor, 13 Air temperature sensor, 14 Lambda sensor,
15 Engine temperature sensor, 16 Idle-speed actuator, 17 Reference-mark and engine-speed
sensor, 18 Battery, 19 Ignition/starter switch, 20 A/C switch.

Intake Exhaust Injection

Cyl. #1 CA (0° is BDC compression)