

BOSCH L-Jetronic

- 1 Fuel tank
- 2 Electric filter delivers the fuel and creates the pressure necessary for injection.
- 3 Fuel filter holds back.
- 4 Distributor tube distribute the fuel evenly to all injection valves.
- 5 Pressure regulator maintains the pressure difference constant between fuel pressure and intake manifold pressure.
- 6 Air-flow sensor continually measures the air quantity Q_a drawn in by the engine and passes the information on to the control unit via the potentiometer 6a in the form of an electric signal. The air-temperature sensor 6b determines the temperature θ_a of the air drawn in. The contact 6c in the air-flow sensor switches the electric fuel pump via the relay combination.
- 7 Ignition distributor delivers the ignition impulses to the control unit as a measure for the engine speed n_m .
- 8 Throttle-valve switch passes the operating conditions "idle" P_o and "full load" P_v on to the control unit.
- 9 Engine-temperature sensor passes the engine temperature θ_M on to the control unit.
- 10 Lambda sensor passes information about the exhaust-gas composition on to the control unit (λ).
- 11 Control unit processes all operational data for calculating the necessary fuel quantity which is metered during the period of injection t_i .
- 12 Injection valve sprays fuel into the inlet manifold directly before the intake valve. The injection valve is operated by means of a solenoid.
- 13 Battery
- 14 Ignition and starting switch switches the ignition on and signals the start t_s to the control unit via the relay combination. It switches the start valve on when starting with a cold engine.
- 15 Relay combination switches the L-Jetronic to the battery voltage U_b and switches the electric fuel pump and the auxiliary-air device.
- 16 Start valve sprays additional fuel into the intake manifold during a cold start.
- 17 Thermo-time switch limits the switching time of the start valve depending on the engine temperature.
- 18 Auxiliary-air device increases and stabilizes idle speed when the engine is cold.
- 19 Idle-mixture-adjusting screw
- 20 Idle-speed adjusting screw
- 21 Throttle plate

■ Injection pressure
■ Intake or return line
■ Atmospheric pressure
■ Intake-manifold pressure
■ Exhaust
■ Coolant

