

Fig. 7 Chip and Package

The engine control system provides sequential injection control for the six cylinders, spark advance control with a knock control function, idle speed control, a variable intake control function and other controls. The transmission control system provides gears shifting control, hydraulic control within the transmission and other functions. Combined control functions include spark retardation and fuel cutting to reduce the engine torque (This reduces the shock when gears are shifted). Further, the system also provides other integrated controls through communication with the traction control ECU, cooling fan control ECU and air conditioner control ECU. It also has an on-board diagnostics function, and a backup function for use if the microcomputer should fail.

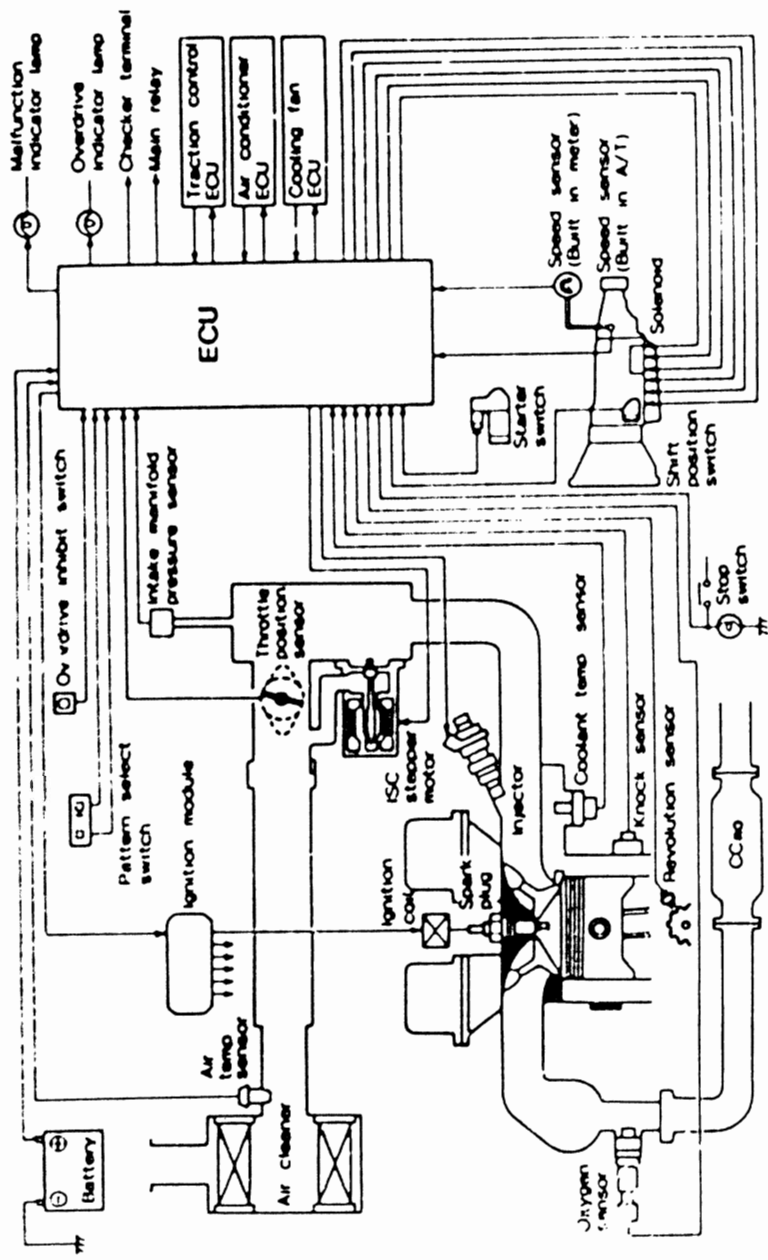


Fig. 8 Toyota Computer Controlled System