

A/F CONTROL SYSTEM

Emission Control (Aux. Emission Control Devices)

5. A/F Control System

- The air/fuel (A/F) control system makes a correction to the basic fuel injection duration in accordance with the signal from the front oxygen sensor so that the stoichiometric ratio is maintained, thus ensuring most effective exhaust gas purification by the three-way catalyst. Different basic fuel injection durations are preset for various engine speeds and loads, as well as the amount of intake air.
- This system also has a “learning” control function which stores the corrected data in relation to the basic fuel injection in the memory map. This allows an appropriate air-fuel ratio correction to be added automatically in quick response to any situation that requires such an effect. Thus, the air-fuel ratio is optimally maintained under various conditions while purifying exhaust gases most effectively, improving driving performance and compensating for changes in sensors’ performance over time.