

OUTLINE

Engine Description

EG

- Newly developed V6 gasoline engines, the 3GR-FE (3.0L gasoline) and the 3GR-FSE (3.0L gasoline) are used. The 3UZ-FE (4.3L gasoline) engine continues to be used, and the 2JZ-GE (3.0L gasoline) engine has been discontinued.
- The 3GR-FE engine complies with the EURO-IV exhaust regulations in Europe by realizing high performance/high power output and low fuel consumption/low emissions through the use of the following features: linkless electronic throttle system, Dual VVT-i (Dual Variable Valve Timing-intelligent = continuously variable intake and exhaust valve timing mechanism) system, electronic ACIS (Acoustic Control Induction System), long dual exhaust system, etc.
- The 3GR-FSE uses the D-4 (Direct injection 4-stroke gasoline engine) system to achieve efficient combustion. In addition, this engine complies with the EURO-IV exhaust regulations in Europe by realizing high performance/high power output and low fuel consumption/low emissions through the use of the following features: linkless electronic throttle system, Dual VVT-i (Dual Variable Valve Timing-intelligent = continuously variable intake and exhaust valve timing mechanism) system, electronic ACIS (Acoustic Control Induction System), electronic SCV (Swirl Control Valve), long dual exhaust system, etc.
- The 3UZ-FE engine on the '05 model GS430 is the same as on the '04 model GS430.
- This engine produces ample torque in all speed ranges, particularly in the low- to medium-speed range, through the use of the VVT-i (Variable Valve Timing-intelligent) system and the ACIS (Acoustic Control Induction System).
- This engine complies with the EURO-IV exhaust regulations in Europe through optimal combustion achieved through the use of air-assist type fuel injectors, as well as through reduced exhaust emissions achieved with a compact exhaust manifold made of stainless steel, and an ultra thin-wall, high cell density ceramic catalyst.