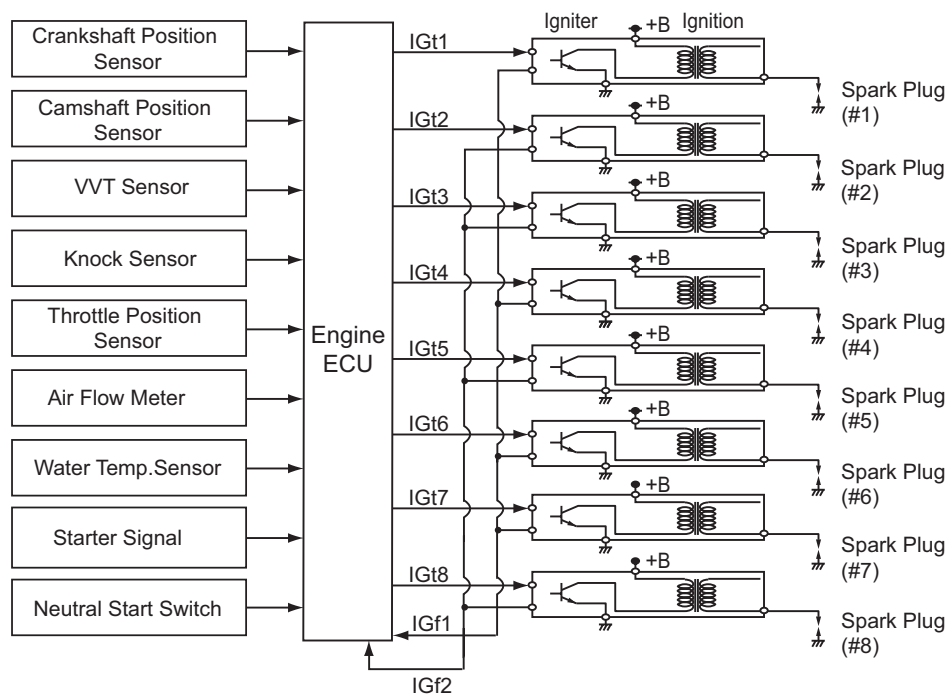


3UZ-FE IGNITION

EG

General

- A DIS (Direct Ignition System) has been adopted. The DIS improves the ignition timing accuracy, reduces high-voltage loss, and enhances the overall reliability of the ignition system by eliminating the distributor. The DIS in this engine is an independent ignition system which has one ignition coil (with igniter) for each cylinder.
- An ESA (Electronic Spark Advance) system is used. Based on the signals received from the sensors, the engine ECU controls the ignition timing in accordance with the conditions of the engine.
- High-precision control is effected through the use of knock control using a knock sensor and ECT shift torque control that reduces the shift shocks of the automatic transmission.
- Iridium-tipped spark plugs have been adopted to realize a 120,000 mile (192,000 km) maintenance-free operation.



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