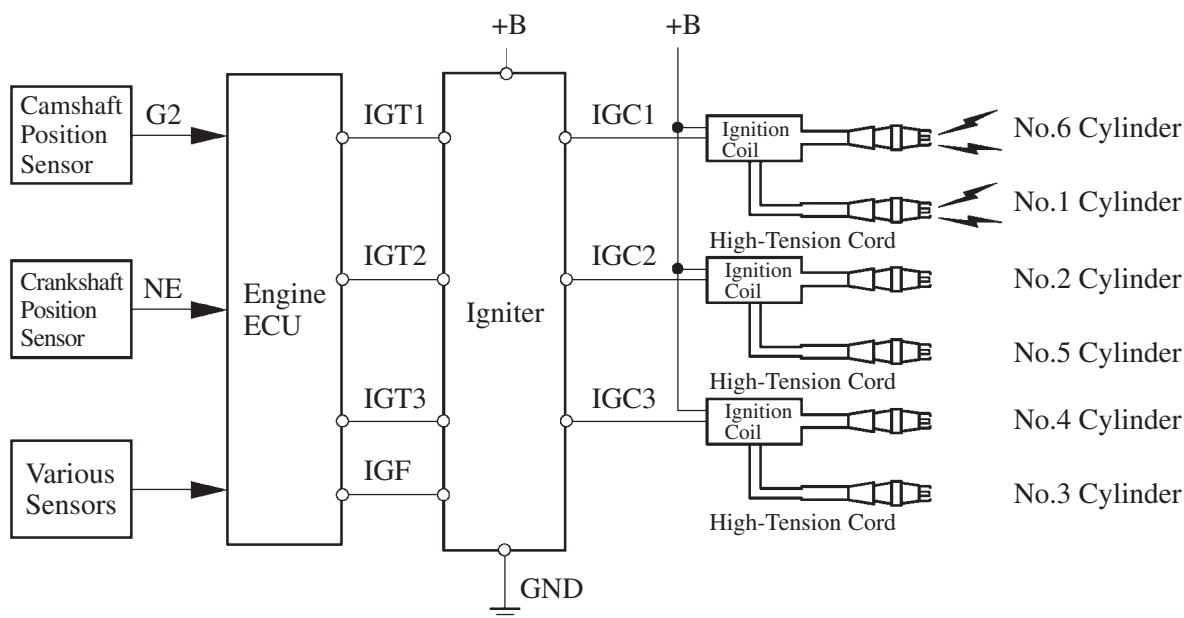


## IGNITION SYSTEM

### 1. General

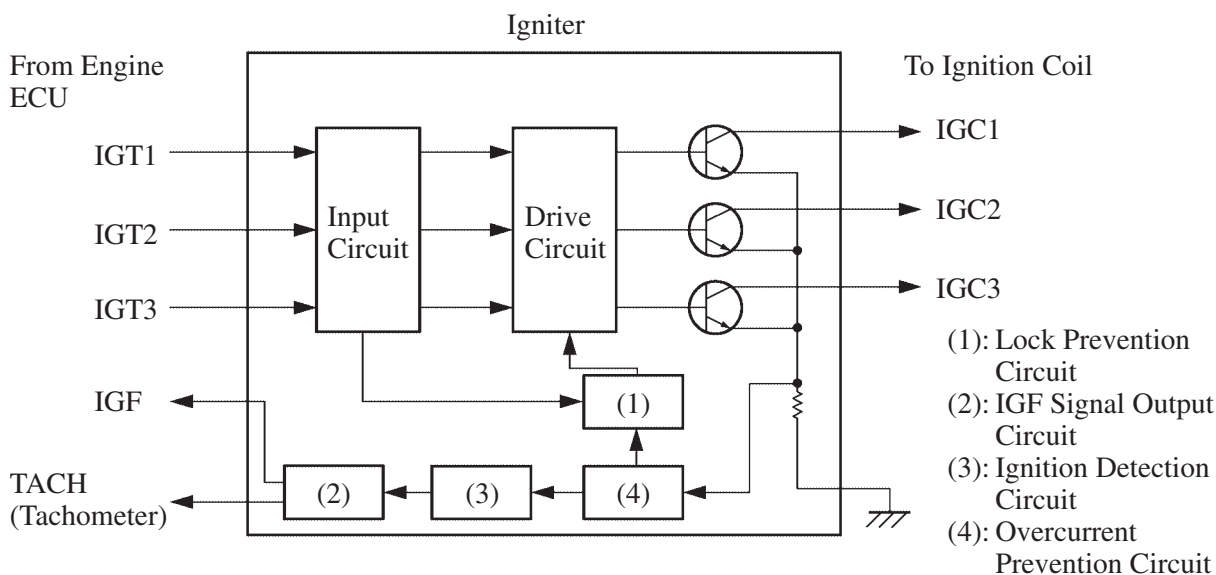
- A DIS (Direct Ignition System) has been adopted.
- The DIS is a 2-cylinder simultaneous ignition system which ignites 2-cylinders simultaneously with one ignition coil.



150EG11

### 2. Igniter

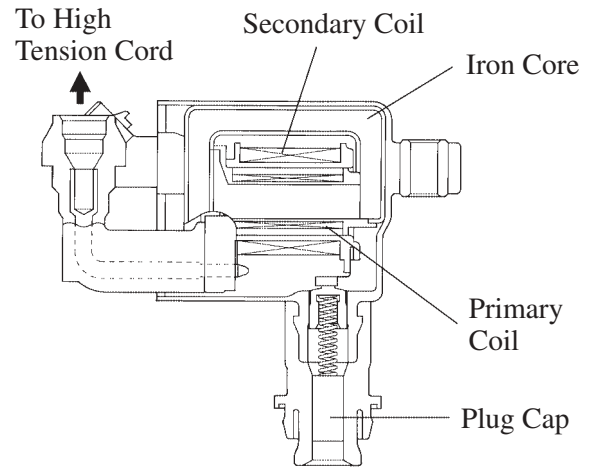
The internal system diagram of the igniter is shown below. A characteristic of this igniter is that it contains the 3 power transistors as illustrated. Based on the IGT signals input for each cylinder the drive circuit activates the respective power transistors to control the primary ignition current (IGC) for all the ignition coils. At the same time, the igniter also sends an ignition confirmation signal (IGF) as a fail-safe function to the engine ECU.



150EG12

### 3. Ignition Coil

The DIS system of the 2JZ-GE engine consists of 3 sets of ignition coils integrated with plug caps and with the high-tension cords attached directly onto the ignition coil.

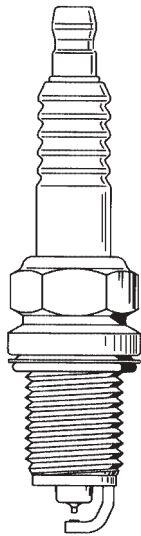


150EG22

**Ignition Coil Cross Section**

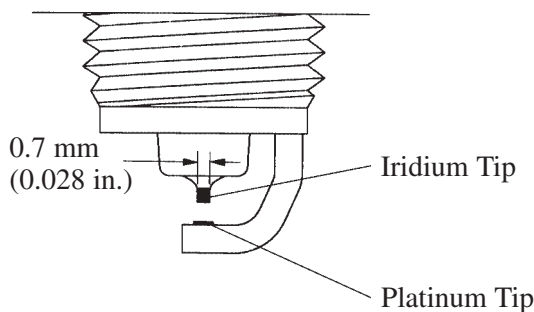
### 4. Spark Plug

By making the center electrode of iridium, the same ignition performance as of the platinum-tipped spark plug and further improvement of durability have been realized.



#### ► Recommended Spark Plugs ◀

DENSO	SK20R-P11
Plug Gap	1.0 – 1.1 mm (0.0394 – 0.043 in.)



151EG39