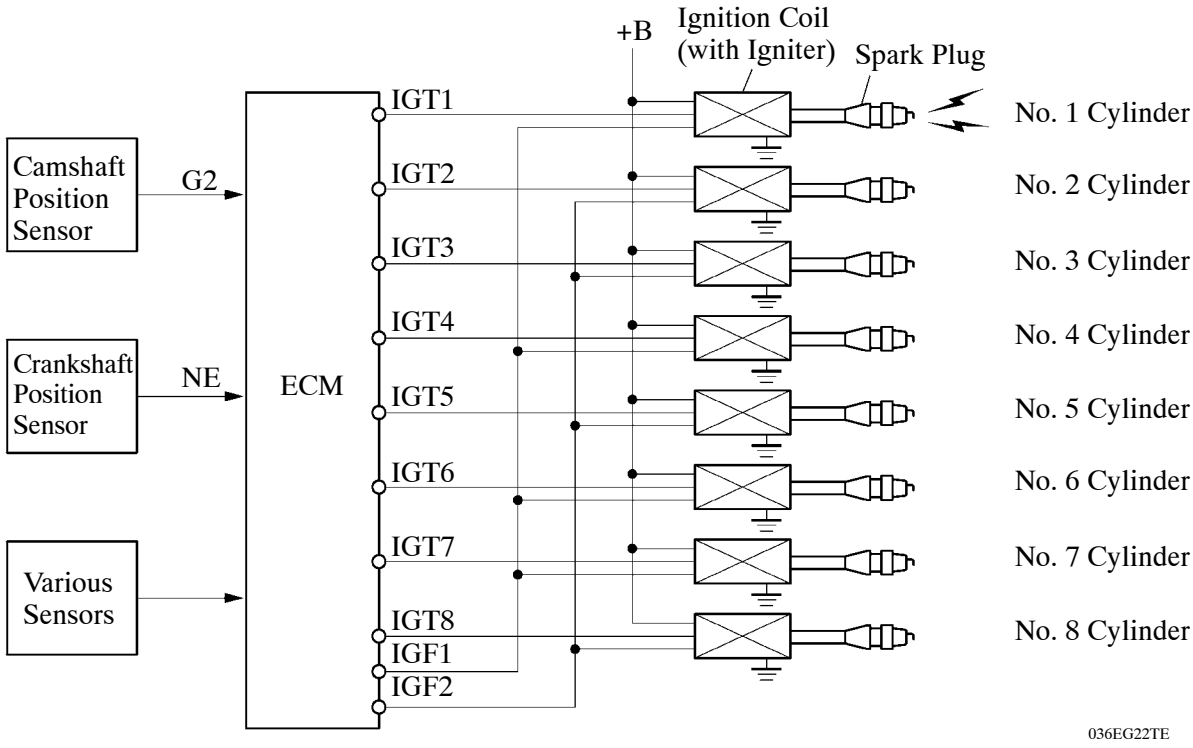
9. Ignition System

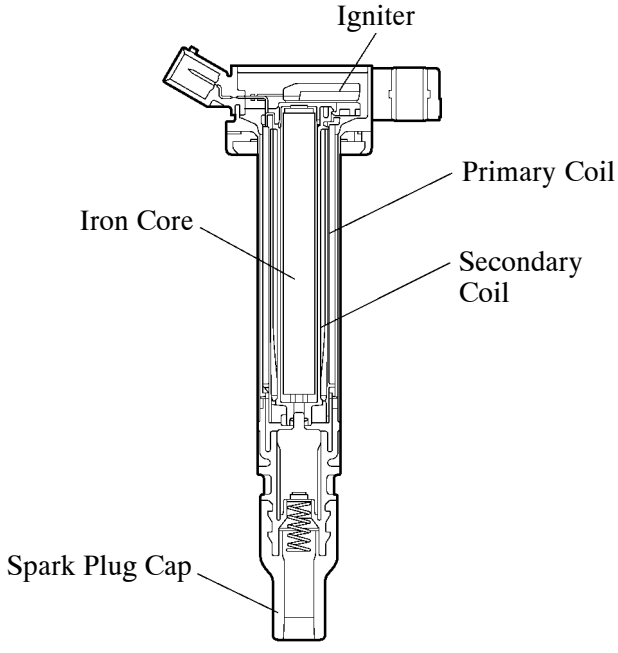
General

- A Direct Ignition System (DIS) is used. The DIS improves ignition timing accuracy, reduces high-voltage loss, and enhances the overall reliability of the ignition system by eliminating the distributor.
- The DIS is an independent ignition system which has one ignition coil (with an integrated igniter) for each cylinder.



Ignition Coil

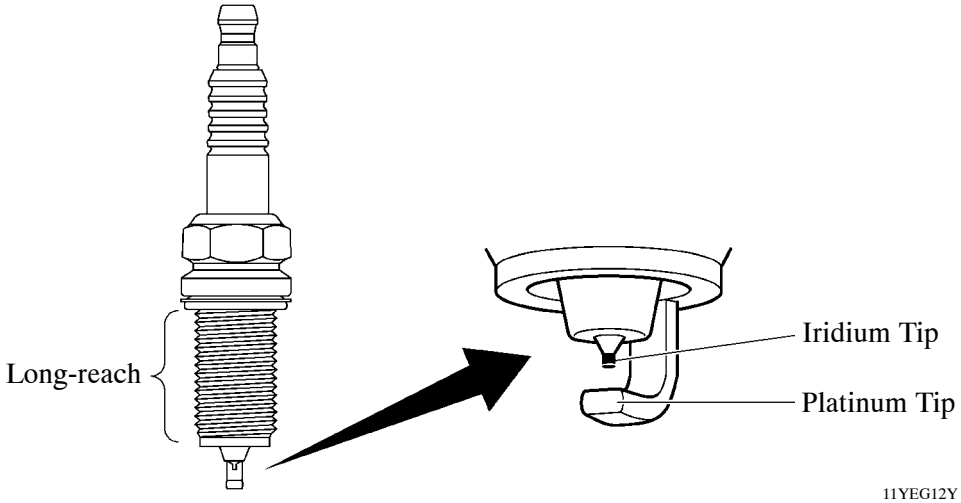
The DIS provides 8 ignition coils, one for each cylinder. The spark plug caps, which provide contact to spark plugs, are integrated with the ignition coil. Also, an igniter is enclosed to simplify the system.



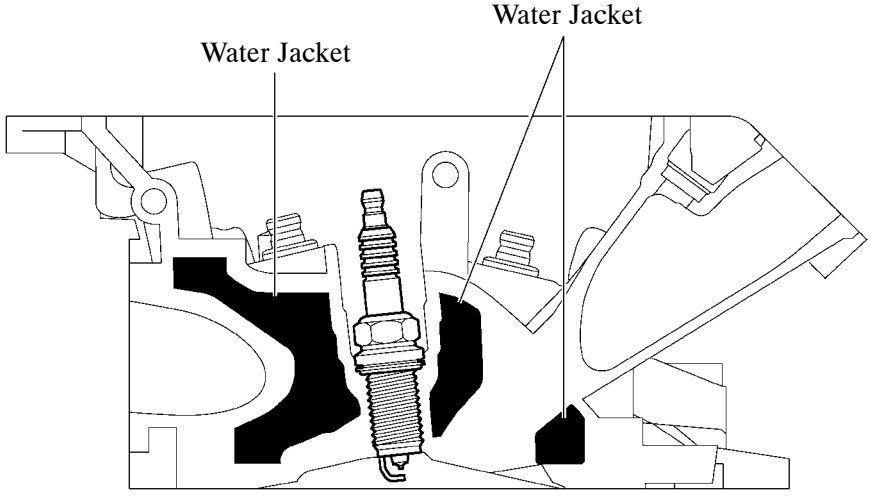
Ignition Coil Cross Section 05AEG39TE

Spark Plug

- Long-reach type spark plugs are used. This type of spark plug allows the area of the cylinder head that receives the spark plugs to be made thick. Thus, the water jacket can be extended near the combustion chamber, contributing to cooling system performance.
- Iridium-tipped spark plugs are used to achieve 120000 mile (200000 km) maintenance intervals. By using an iridium center electrode, ignition performance superior to that of platinum-tipped spark plugs has been achieved and durability has been increased.



11YEG12Y



Cylinder Head Cross Section

11YEG13Y

▶ Specifications ◀

Manufacturer	DENSO
Type	SK20HR11
Plug Gap	1.0 mm to 1.1 mm (0.0394 in. to 0.043 in.)