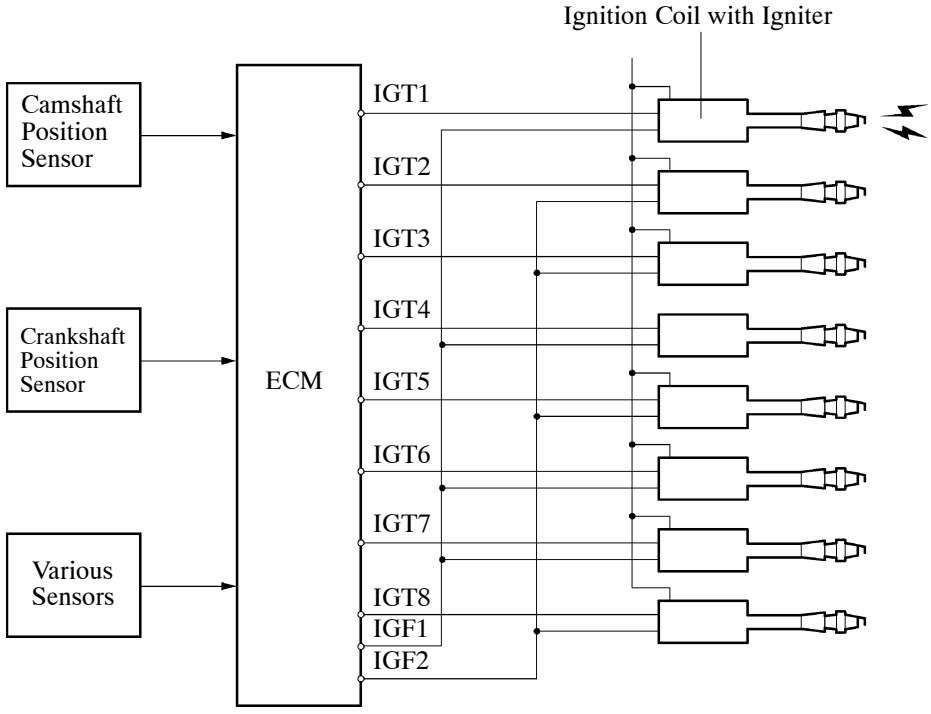
■IGNITION SYSTEM

1. General

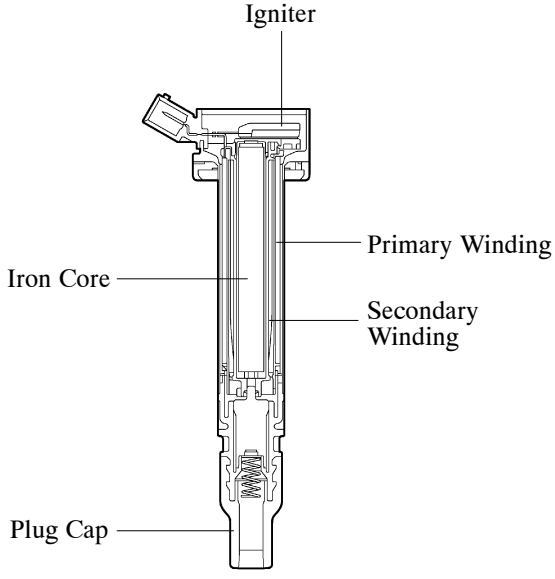
A DIS (Direct Ignition System) is used. The DIS improves ignition timing accuracy, reduces high-voltage loss, and enhances the overall reliability of the ignition system by eliminating the distributor.
The DIS is an independent ignition system which has one ignition coil (with an integrated igniter)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



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2. 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.

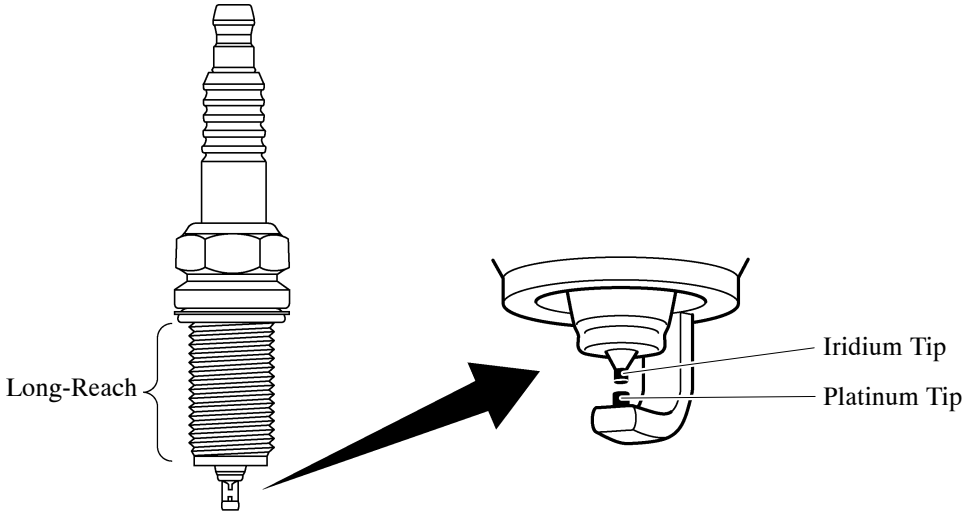


Ignition Coil Cross Section

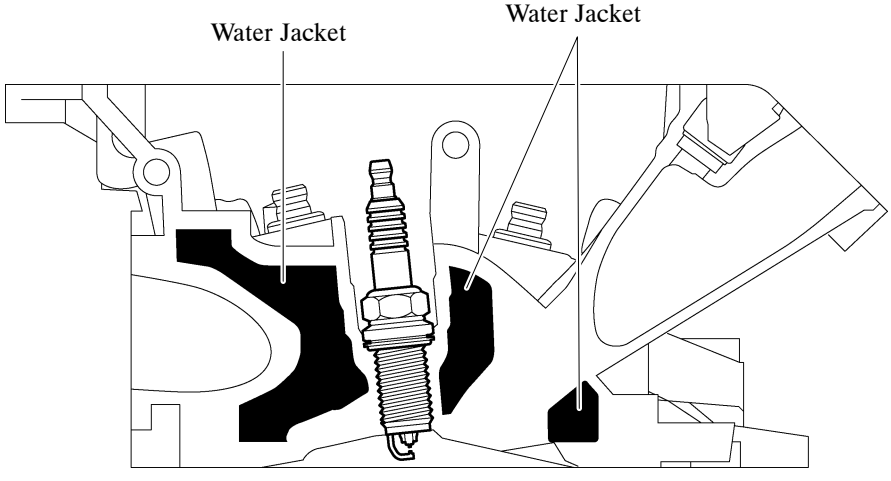
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3. Spark Plug

- Long-reach type spark plugs are used. This type of spark plugs 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 a 120000 mile (200000 km) maintenance interval. By adopting an iridium center electrode, ignition performance that is superior to that of platinum-tipped spark plugs is achieved and durability is increased.



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Cylinder Head Cross Section

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