IGNITION COIL



ITS FUNCTION



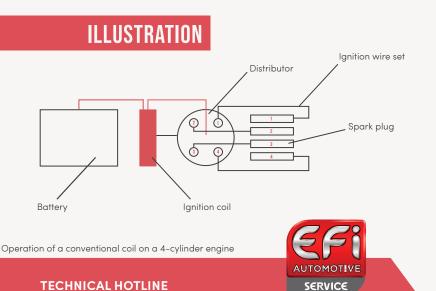
The ignition coil is an essential component in the ignition system of internal combustion engines running on petrol. Its main role is **to transform the low voltage of the battery** (12V) **into the high voltage** (15,000 to 40,000V) **needed to create a spark at the spark plug**. This spark ignites the air/fuel mixture in the combustion chamber, ensuring combustion in the engine.

GOOD TO KNOW

The ignition coil can be located in **different places on the engine**, **depending on the type of coil used**:

- **Conventional coil:** located close to the engine, it sends the spark to the spark plugs via a distributor and an ignition wire set.
- **Dual output coil:** feeds two cylinders and is fitted to the cylinder head or a nearby support.
- **Pencil / top plug coil:** installed directly on each spark plug, one per cylinder.
- **Coil in rack:** a single module grouping together several coils for all the cylinders.







TECHNOLOGIES

The ignition coil works like a **step-up transformer**. It consists of a primary winding, a secondary winding and a magnetic core, which generate the induction required for ignition.

Today, **individual coils of the pencil and top plug type** are increasingly common on the market.

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