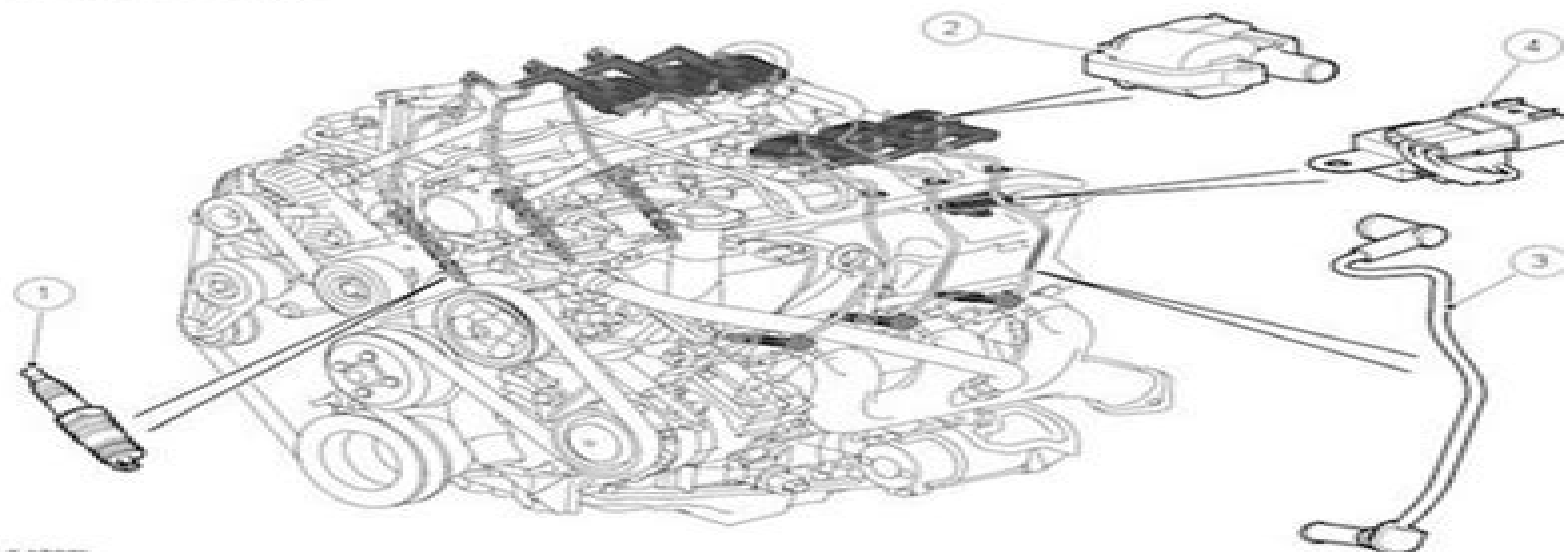


# Engine Ignition - V6 4.0L Petrol - Engine Ignition

Description and Operation

Published: 11-May-2011

## COMPONENT LOCATIONS



E47601

| Item | Part Number | Description     |
|------|-------------|-----------------|
| 1    | -           | Spark plug      |
| 2    | -           | Ignition coil   |
| 3    | -           | Spark plug wire |
| 4    | -           | Capacitor       |

## GENERAL

The 4.0L engine ignition system has a single platinum tipped spark plug per cylinder, with each spark plug powered by a separate remote ignition coil. The three ignition coils for each cylinder bank are grouped together on the related side of the air inlet manifold. The ignition coils are directly driven by the Engine Control Module (ECM).

Power for the ignition coils is supplied from the main relay and a fuse in the Battery Junction Box (BJB).

Each ignition coil contains a power stage to switch the current in the primary circuit. The ECM controls the switching with a signal to the power stage. A capacitor is connected in parallel with the power supplies to the ignition coils, to suppress Radio Frequency Interference (RFI). The ECM monitors operation of the ignition coils using a feedback signal from each of the power stages. If a fault is detected the ECM stores an appropriate fault code.

The ECM varies the dwell time of the ignition coils depending on battery voltage and engine speed, to ensure a constant energy level is produced in the secondary coil each time the power stage is switched. This ensures a good spark is always produced by the spark plug without excessive primary current flow, thus avoiding overheating or damage to the ignition coils.

The ECM calculates the ignition timing for individual cylinders from:

- Engine speed.
- Camshaft position.
- Engine load.
- Engine temperature.
- The knock control function.
- On automatic transmission models, the shift control function.
- The idle speed control function.

## ENGINE IGNITION CONTROL DIAGRAM

• NOTE: A = Handwired connections

# Land Rover Discovery 4 Cambio Manual

**RC Schank**



## **Land Rover Discovery 4 Cambio Manual:**

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In a world taken by screens and the ceaseless chatter of fast connection, the melodic beauty and mental symphony created by the written word usually fade into the backdrop, eclipsed by the constant sound and disruptions that permeate our lives. Nevertheless, situated within the pages of **Land Rover Discovery 4 Cambio Manual** a charming fictional value filled with natural feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this charming masterpiece conducts visitors on an emotional trip, well unraveling the concealed tunes and profound impact resonating within each carefully crafted phrase. Within the depths of the emotional examination, we shall explore the book is key harmonies, analyze its enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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