



Passive immobilisation

Passive immobilisation prevents the vehicle from being started unless the authorised key is used to start the vehicle.

There are only two configurations for passive immobilisation:

- passive immobilisation not active
- passive immobilisation active

When the ignition is switched off, the vehicle remains mobilised for up to a maximum of 5 minutes. If however the driver's door is opened, after 2 minutes 30 seconds, the vehicle remains in a mobilised state for a further 30 seconds. When the timer in the BCU has expired, the vehicle is immobilised.

Once the ignition is switched on, the BCU transmits a coded signal to the ECM. If the coded signal does not correspond to the programmed code in the ECM, the ECM is inhibited and the BCU inhibits the starting circuit.

In order for passive immobilisation to occur, the following conditions must be met:

- Driver's door closed.
- Fuel cut-off switch not tripped.
- Key not inserted in ignition.

Passive remobilisation

Whenever the vehicle is immobilised, passive remobilisation of the engine occurs when the ignition is switched on, allowing the vehicle to be started.

There are three configurations for passive remobilisation:

- Passive immobilisation not active.
- Passive immobilisation active.
- EKA with super locking on receiving good passive remobilisation exciter coil signal.

The BCU controls the passive remobilisation exciter coil (located around the ignition barrel) to generate a magnetic field which causes the handset to transmit a remobilisation signal. The BCU receives the signal and allows the vehicle to be started. If a valid signal from the handset is not received within one minute of the ignition being switched to position II, the BCU stops the passive coil from generating the magnetic field.

Emergency key access

If the handset fails to operate, the engine can be remobilised by using the key to enter a unique four digit Emergency Key Access (EKA) code.

There are three configurations for emergency key access:

- EKA not active (no immobiliser fitted).
- EKA active.
- EKA with super locking on receiving good passive remobilisation exciter coil signal.