GENERAL INFORMATION

WARNING

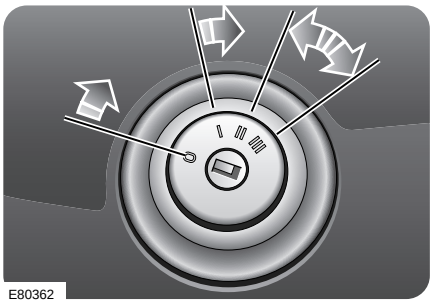
Never start the engine or leave it running, when the vehicle is in an enclosed space. Exhaust gases are poisonous and can cause unconsciousness and death if inhaled.

CAUTIONS

Do not run the diesel engine above idle speed until the oil pressure warning light extinguishes. This will ensure that the engine and turbo-charger bearings are properly lubricated before being run at speed.

Similarly, always allow the engine to idle for 10 seconds before switching off.

STARTER SWITCH


E80362

Starter switch key position functions:

Position **0**

- Steering locked.
- Some lighting circuits are operational, including sidelamps and hazard warning lamps.
- With the driver's door open, the seat memory facility is operational.

Position **I**

- Steering unlocked.
- Clock, audio system and cigar lighter can now be operated.
- Wipers and washers are operational.

Position **II**

- All instruments, warning indicators and electrical circuits are operational.

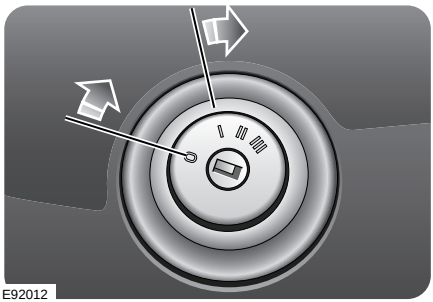
Position **III**

- The starting sequence is initiated. Note that operation of some electrical functions will be interrupted during engine cranking.

STEERING WHEEL LOCK

WARNING

It is impossible to steer the vehicle when the steering lock is engaged. Do not remove the key, or turn it to position **0**, while the vehicle is in motion.


E92012

To unlock the steering wheel, insert the key into the starter switch and rotate key to position **I**. If the key will not rotate, turn the steering wheel left or right while rotating the key. When you remove the key, turn the steering wheel until the lock engages.

STARTING THE ENGINE

1. Check that the electric parking brake is applied and that the gear selector is in the **P** (Park) or **N** (Neutral) position (automatic transmission) or Neutral position (manual transmission) or the clutch pedal is depressed.
2. Switch off all non-essential electrical equipment to maximise the available battery power for starting.
3. Insert the starter key and turn the switch to position **II**.
4. Do not press the accelerator pedal while starting.



Diesel engines - wait until the glow plug warning indicator in the instrument pack extinguishes then turn the key to position **III** to start the engine.

Petrol engines - turn the key to position **III** and immediately release it. The starter will automatically switch off when the engine starts.

In extreme off-road driving conditions, it may be desirable to start the engine with a gear engaged, e.g. a steep hill start. Use the following procedure to start the engine of a vehicle with manual transmission:

1. Press the clutch and select a gear.
2. Release the clutch.
3. Release the electric parking brake. An interlock will prevent the engine from cranking until the park brake is released. Do not release the electric parking brake before a gear is selected.
4. Start the engine.

Note: *The battery charging and oil pressure warning indicators should extinguish as soon as the engine is running.*

In temperate climates, do not operate the starter for longer than 10 seconds. If the engine fails to start, switch off and wait 10 seconds before re-using the starter.

CAUTION

If the engine fails to start, do not continue cranking as this will discharge the battery. It may also damage the catalytic convertor due to unburnt fuel passing through the exhaust.

Do not drive if a misfire is suspected, and do not attempt to clear a misfire by pressing the accelerator. Seek qualified assistance.

In very cold climates the oil pressure warning light may take several seconds to extinguish. Similarly, engine cranking times will also increase. At -25°C (-13°F) the starter motor may require continuous operation for as long as 30 seconds before the engine will start.

Warming-up

In the interests of fuel economy and reduced engine wear, drive the vehicle straight away. Harsh acceleration or labouring the engine before normal operating temperature has been reached can damage the engine.

Driving

If your vehicle is burning excessive oil (blue smoke from the exhaust), catalyst efficiency will progressively reduce. Seek qualified assistance.

DIESEL PARTICULATE FILTER (DPF)

The Diesel Particulate Filter (DPF) forms part of the emissions reduction system fitted to Land Rover vehicles. The DPF will remove a high proportion of the harmful carbon microspheres (soot) before they leave the exhaust. It achieves this by filtering out the particles, which are then stored until they are burnt away and the filter is emptied.

Regeneration

The regeneration procedure produces high temperatures in the DPF. Heat can be felt radiating from beneath the vehicle, which is normal and not a cause for concern. However, the vehicle should not be parked over combustible material, particularly during dry weather. The heat generated could be sufficient to start a fire when in close proximity to combustible material such as long dry grass, paper etc.

Unlike a normal filter which requires periodic replacement, the DPF has been designed to regenerate, or clean itself to maintain operating efficiency. The regeneration process takes place automatically in most cases. However, some unfavourable driving conditions mean that the regeneration process must be initiated deliberately by the driver.

Regeneration procedure

If **DPF FULL, SEE HANDBOOK** appears in the message centre, carry out the following procedure.

Note: *At all times during this procedure you should observe all relevant speed limits, laws, and regulations. Always take account of traffic and weather conditions, and drive with consideration for other road users.*

1. Drive the vehicle until the engine reaches normal operating temperature. The engine should not be left idling to achieve working temperature.
2. Drive the vehicle for a further twenty minutes, keeping the speed above 48 km/h (30 mph), and the engine speed between 2 500 and 4 000 rpm.
3. If regeneration is successful the warning message will disappear. If the message remains repeat the process.

Note: *When driving off-road during the regeneration process, greater accelerator pedal use may be required.*

Note: *If the warning message remains after following the regeneration process three times, contact your Land Rover Dealer/Authorised Repairer for assistance.*

Warning messages

Failure to take appropriate action when a warning message appears may result in damage to the engine, DPF system, increased vehicle emissions, and costly repairs.

If regeneration cannot be achieved automatically by the system, due to short journeys for example, the driver will be notified by a warning message.

DPF FULL, SEE HANDBOOK

If this message appears the driver should carry out the DPF regeneration procedure as soon as possible.

DPF FULL VISIT DEALER

If this message appears the vehicle should be taken to your Land Rover dealer/Authorised Repairer as soon as possible.