

Handles, Locks, Latches and Entry Systems - Handles, Locks, Latches and Entry Systems

Description and Operation

CENTRAL DOOR LOCKING

Central Door Locking (CDL) operates on all doors on Station Wagon and County Station Wagons. On all other Defender variants, CDL operates on the driver and front and rear passenger doors only. CDL is operated by pressing the appropriate button on the remote handset, using the vehicle key in the drivers door lock or using the drivers door sill button.

The CDL system uses electrically operated door latches, which are controlled by the anti-theft system module located behind the instrument pack. The anti-theft system module receives a permanent power supply from the **CJB (central junction box)**. Each CDL latch motor is connected by two wires to the anti-theft system module, which alternately supplies power and earth connections to drive each motor to the lock or unlock positions.

If the latch motors are continually operated in a short period of time, the anti-theft system module will suspend all CDL latch motor operation for 15 seconds to prevent the motors from overheating. Before suspension occurs the anti-theft system module ensures that all the doors are left in the unlocked condition.

If the vehicle is locked, and the key is in the ignition switch or the ignition is on and the anti-theft system module inertia switch is tripped, all doors will be unlocked immediately and the hazard warning lamps will operate. To prevent accidental relocking, all latch motors will be inhibited until the anti-theft system module senses that the drivers door is opened with the key removed from the ignition switch.

Locking of the vehicle using the remote handset is inhibited with the key in the ignition switch.

Slam Locking

With the introduction of CDL, slam locking of the drivers door is disabled. If an attempt is made to slam lock the vehicle, the anti-theft system module will unlock all doors.

CDL Using the Drivers Door Sill Button

Each door has a sill button to allow that door to be individually locked from inside the vehicle. The drivers door sill button has additional functionality which allows all doors to be locked from inside the vehicle from this one button.

When the driver door sill lock button is depressed, the CDL system enters a sill locked state, where all doors are locked but immobilisation and perimeter and volumetric sensing is suspended. CDL using the drivers sill lock button can be achieved with or without the key in the ignition switch and without the ignition being on.

If the CDL is in the sill locked state and the lock button on the remote handset is pressed, the volumetric and perimeter functions of the alarm system will become active and active engine immobilisation will be invoked.

CDL Using the Key

The driver and the passenger front doors are fitted with key barrel locks. Using the vehicle key in the passenger door will only lock or unlock that door. Using the key in the drivers door will operate the CDL system and lock or unlock all doors.

NOTE: The passenger door key barrel is connected to the door latch and has no electrical input to the anti-theft system module. The driver door key barrel is also connected to the door latch and its operation is monitored by the ECU only via the latch motor and the two wires connected to it.

When the vehicle is locked using the key in the drivers door, only CDL and perimeter protection is invoked. Volumetric protection and active immobilisation is not initiated.

CDL Using the Remote Handset

The remote handset has two buttons; lock and unlock. A single press on the lock button will lock all doors and invoke perimeter and volumetric protection and active immobilisation. Remote locking is inhibited if the transponder coil senses that the key is in the ignition switch.

When the vehicle is locked, a single press of the unlock button will unlock all doors and disable perimeter and volumetric protection. Immobilisation is only disabled using the transponder coil and the remote handset or the EKA procedure.

Anti-theft Alarm Indicator