

Function description of vehicle locking / unlocking

The radio signal is read in directly by the AAM control unit. The antenna is a wire antenna located on the A-pillar on the driver side. The central locking motors are actuated and the ATA (SA) is deactivated / activated if a valid radio signal is received by the AAM control unit. The turn signals are actuated at the same time (1x for unlocking, 3x for locking).

Global / selective unlocking

The key can be reprogrammed from global unlocking (all doors, trunk lid and fuel filler flap) to selective unlocking (only driver door and fuel filler flap) by pressing the lock and unlock buttons at the same time (until the LED lights up).

Function description of engine starting

Drive authorization is verified after the key is turned to position "1". Inductive energy is transferred to the key so that drive authorization can be checked without the need for an additional source of energy (e.g. key battery).

The check to determine whether an authorised key has been inserted in the ignition lock takes place between the key and the DAM (the Mercedes-Benz immobilizer, transponder coil and EAM act as intermediaries).

If no authorised key is recognized, the message "Start error" appears on the instrument cluster.

When the key is turned to position "2" (circuit 15, ignition on), the DAM transmits the drive authorization code to the engine control unit. If the code is valid, the ignition and fuel supply are enabled.

When the vehicle reaches a speed of > 8 km/h, the DAM calculates a new variable code and writes it to the key transponder. The old variable code value is thus overwritten.