



BRIEF INFORMATION


Electronic immobilizer for agricultural and construction machinery



GENERAL

The electronic immobilizer made by HELLA protects your vehicle against unauthorised use*. After its installation, the immobilizer is fully integrated and cannot be recognized by unauthorized persons.

Recovery of a stolen vehicle leads to economic loss and long downtimes. An immobilizer can make theft more difficult.

The HELLA immobilizer is accepted by the German Federal Motor Transport Authority (KBA)  *74 / 61*95 / 56*0501*00.

SCOPE OF DELIVERY

- 1 x immobilizer control unit
- 1 x connection harness for the control unit
- 1 x antenna unit including connection cable
- 2 x blue keys (mechanical including transponder)**
- 1 x red key (master key for teaching the blue keys)
- 1 x assembly instructions

Immobilizer	5RD 007 511-011
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** 2 keys are included in the scope of delivery, a total of maximum 10 keys can be taught per immobilizer control unit.

ACCESSORIES

Ignition switches of series 6JB 003 959-0..	6JB 003 959-0..
Mechanical additional/spare key with integrated transponder	9SL 194 565-001
Power relay 12 V	4RA 003 437-081
24 V	4RA 003 437-091

PRODUCT FEATURES



Compatible ignition switches

The immobilizer can be used with all HELLA ignition switches of the 6JB 003 959-0.. series and devices identical in construction available in the Aftermarket.

Electronic key

The electronic key makes use of contact-free transponder technology. The transponder (sender and receiver unit) has its own battery-free power supply and is permanently integrated into the mechanical key of the start switch.

Activating the immobilizer

The immobilizer is activated as soon as the mechanical key in the start switch remains in or is rotated into the "0" position (automatically after 5 seconds). The immobilizer is activated by disconnecting up to three control units relevant to operation, such as starter, ignition and fuel pump.

Deactivating the immobilizer

The immobilizer is deactivated using a valid mechanical key and a valid electronic key (transponder). The transponder is read as soon as the mechanical key in the start switch switches terminal 15 on. This means that it is necessary to first open the mechanical locking system before the electronic key is checked.

Tamper protection

It is not possible to tamper with the immobilizer while the ignition is turned off. The immobilizer is deactivated by connecting up to three control units relevant to operation, such as starter, ignition and fuel pump. Interrupting or interfering with the power supply or any other control lines does not deactivate the immobilizer or clear any data (e.g. data codes).

TECHNICAL DETAILS

Technical specifications

Electrical data

Voltage range	6 V – 32 V
Rated voltage	12 V and 24 V
Temperature range	-40 °C to +85 °C
Current consumption, relay open	typ. 50 mA / 24 V DC
Current consumption, relay closed	typ. 300 mA / 24 V DC
Stand-by current (terminal 30 operation)	≤ 30µA / 24V DC

Relay outputs

Max. switching voltage	27 V
Voltage drop (10 A)	typ. 50 mV, max. 300 mV
Min. switching current	1A / 5V DC
Max. switching current	15 A
Continuous current (23 °C)	10 A

RF module

Transmission frequency	typ.134,2 kHz
Coding method	FSK
Range	approx. 10 cm

Mechanical data

Storage temperature	2 h / +95°C
Mounting position	any
Housing material	PA66

* Although the use of an immobilizer cannot prevent theft, it can make it more difficult. The immobilizer is to be professionally and properly installed by qualified personnel.