Safety Instructions

Use for the Intended Purpose

Use other than as intended can lead to injury to the driver or third parties, or to damage to property or the environment. For this reason, the product must be used only according to the intended purpose! GENIUS 300 PLUS is a radio remote control unit for electrical or pneumatic central locking systems. GENIUS 300 PLUS is suitable for positively switched and negatively switched central-locking systems, as well as for those using both types of switching.

WARNING

For the installation of the radio remote control unit, the following conditions must be fulfilled:

- The vehicle's electrical system being 12-volt, negative ground (earth);
- An existing central locking system.

In order to be able to operate properly, the GENIUS 300 PLUS must be correctly installed. The GENIUS 300 PLUS may therefore be installed and wired only by persons who

- Know and have understood the installation instructions in this manual;
- Are familiar with automotive electrical and mechanical systems.

Risk of Short Circuit!

Short circuits in the vehicle's electrical system can cause cable burnout, battery explosions, and damage to other electronic systems.

For this reason, disconnect the negative terminal of the vehicle battery before starting work!

If the vehicle has supplementary batteries, the negative terminals of these batteries may also have to be disconnected!

WARNING

Loss of Data Possible!

When the negative terminal of the battery is disconnected, all volatile electronic memories lose the values entered. Before disconnecting the battery, please note down all relevant data.

ATTENTION

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Installation

Selecting the Installation Site

Install the control electronics of the GENIUS 300 PLUS in the interior of the vehicle under the dashboard. Install the power-on lamp (LED) at a visible place in the dashboard.

ATTENTION

Ensure that the antenna is not tied to live cables. The an-tenna must neither be shortened nor extended!

Electrical Connection

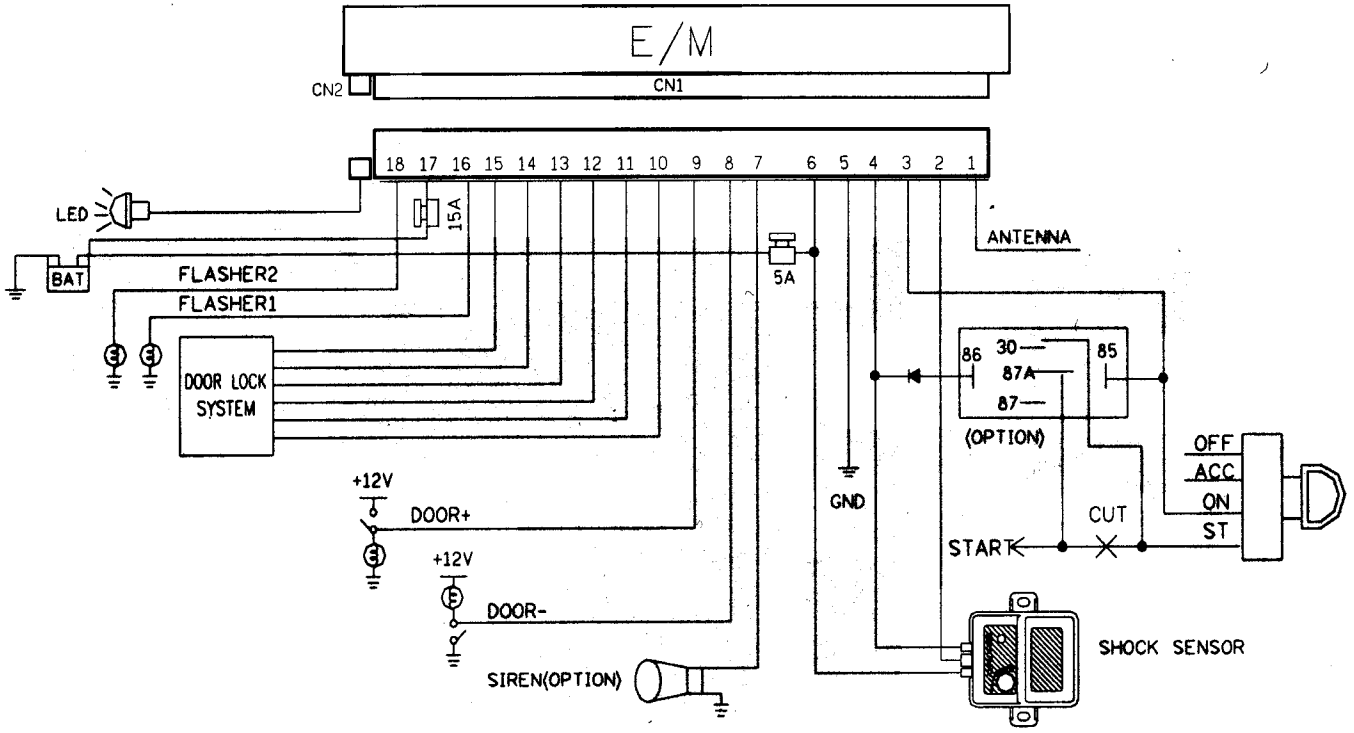
WARNING

Risk of short circuits due to faulty connections. Short circuits in the vehicle's electrical system can cause cable burnout, battery explosions, and damage to other electronic systems. All connections must be either soldered joints or crimped butt connectors. Make sure that the cables are not pinched or otherwise damaged.

Cable Colour Connection

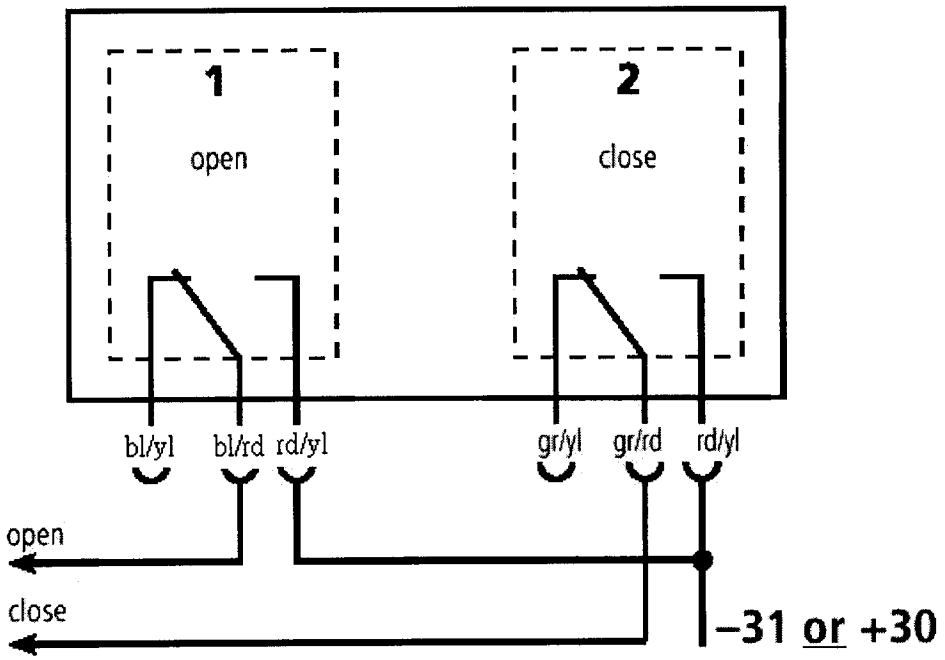
Cable colour	Connection
Red (pin 6)	Constant positive,30
Orange	Ignition,
Black	Ground (earth), term. 31
Black/white	Indicator, left
Black/green	Indicator, right
Brown	Hooter (not included)
Green	Door contact (negatively switched)
Yellow	Door contact (positively switched)
Black (short)	Antenna
Brown/white	ARM (negatively switched)
Grey/red	COM – lock
Grey/yellow	NC – lock
Red/yellow	NO – lock
Blue/red	COM - unlock
Blue/yellow	NC – unlock
Red/black	NO – unlock
Red (pin 17)	Constant positive

GENIUS 300 PLUS WIRING DIAGRAM

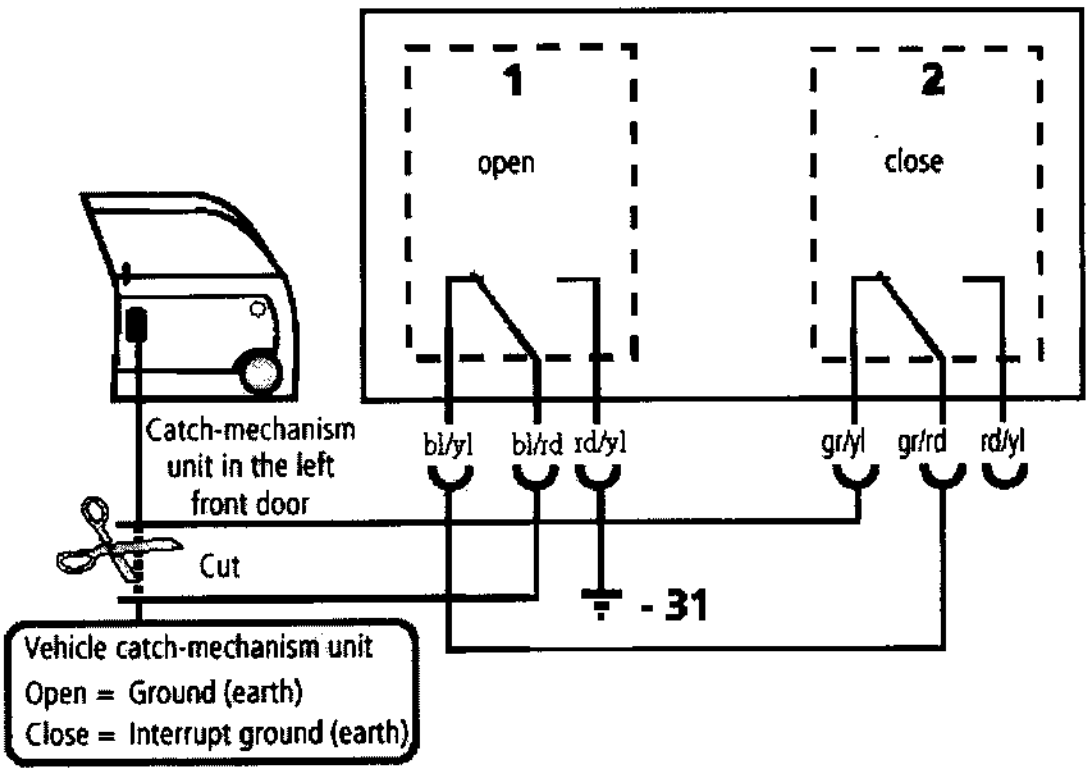


Connection Diagram

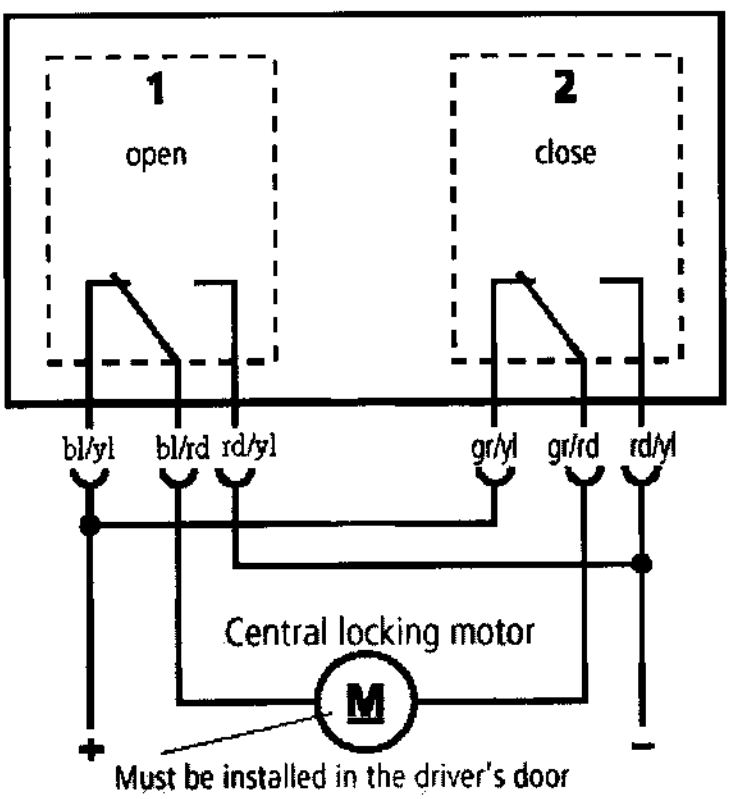
Connection to negatively or positively switched central locking



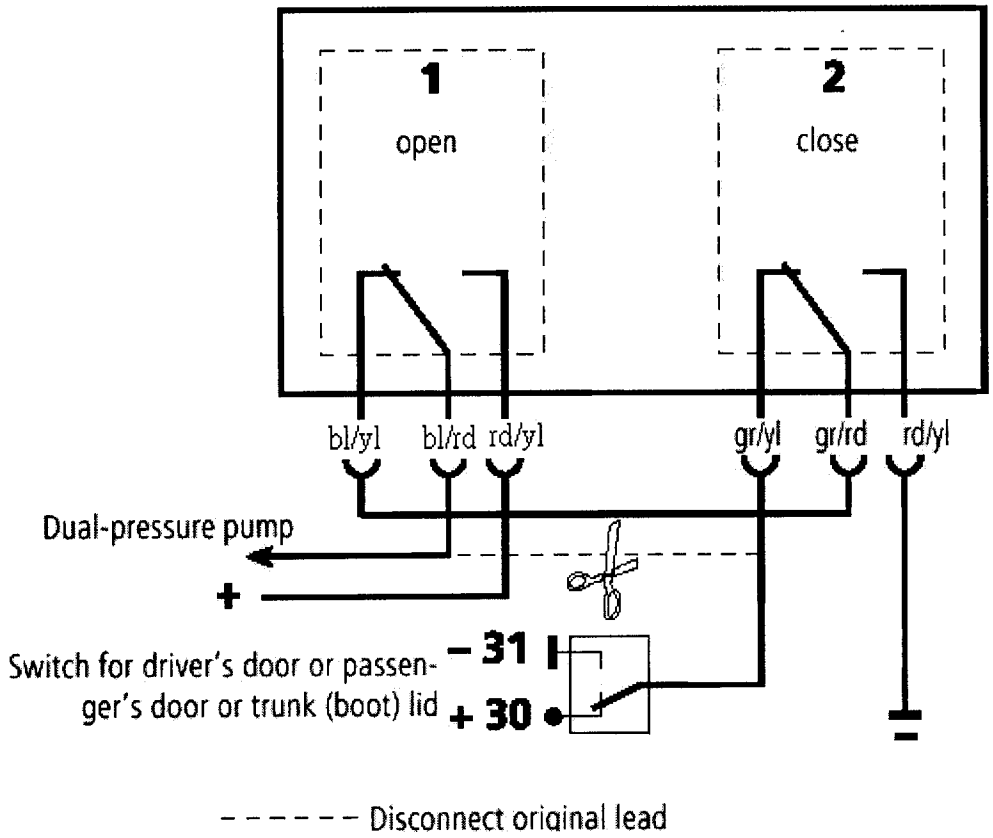
Connection to central locking - control by interruption of neg. conn.



Connection to central locking with single-place actuation



Connection to central locking with dual-pressure pump



Vehicle-Specific Settings

How to use 'Code Learning'

a) Turn the ignition on and off twice and then turn the ignition back on within a 7 second period.
b) LED fast flashes for 3 seconds.
c) After the 3 second flashing, there is a 1 second break
d) Count the flashes and turn the ignition off after the number of flashes equal to the PIN code.
e) Turn the ignition back on and press button 1 on a new transmitter to teach it to the system.
f) Turn the ignition off
g) Leave the ignition off for 10 seconds to exit or turn the ignition back on to enter software switch routine.

Resetting the PIN Number (For Internal Use only)

The procedure for returning the PIN code to default is as follows :-

a.) Remove the top case
b.) Disconnect the power from the module
c.) Turn the ignition on (12 volts on orange wire)
d.) Link jumper (JP) on pcb
e.) Turn on the power (12 volts on RED wire)
f.) Siren will chirp twice to confirm that the PIN has been reset.
g.) Remove the jumper
h.) The PIN will then be reset to default.

Software Switch Routine

The software switches are adjusted as follows :

a) Complete the code learn sequence and turn the ignition back on.
b) Press button 1 once to go to switch 1, twice to go to switch 2 etc
c) Once you have moved forward through the table, press button 2 to step backwards through the table i.e press button 2 once to move from switch 5 to switch 4.
d) As you step through the table the siren will beep to indicate the selected switch i.e one beep switch 1, two beeps switch 2, three beeps switch 3 etc
e) If the switch is on the LED will be ON if the switch is off the LED will be OFF.
f) Press both buttons on the transmitter to toggle the setting of the switch from OFF to ON or ON to OFF.
g) When you have adjusted the setting, turn off the ignition and wait 10 seconds for the system to exit or turn the ignition back on within 10 seconds to change or check the selections.

Software Features

Software Switch	Software Switch Function	Default	On Setting	Off Setting
1	Passive ARM/DISARM Mode	OFF	ON	OFF
2	Passive Arming with Lock	OFF	ON	OFF
3	Anti-Hijack (ON/OFF)	OFF	ON	OFF
4	Ignition On door Lock	ON	ON	OFF
6	Motor/Vacuum Locking	0.5s	0.5s	4s
7	Auto Re-arm	ON	ON	OFF
8	Auto Re-lock	ON	ON	OFF
9	Dome Light Cars	OFF	ON	OFF
10	Horn/ Siren	Horn	Horn	Siren
11	PIN Override Code (Press both buttons once to entry change. If both buttons are pressed again the system will EXIT and up-date the PIN code.)	1	Setting between 1 and 9. Select Switch, press button 1 to increase code and button 2 to reduce code by 1. LED flashes the current selection	
12	Delete all other Transmitters		Press both buttons	
13	Return all Settings to Default		Press both Buttons	

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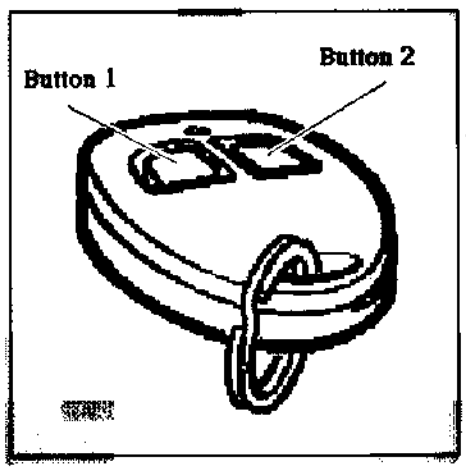
Operation

Operating Elements

Remote Control Specification

Function	Button 1	Button 2	Comments
Lock/Arm	•		
Silent Arm	•	•	
Unlock/Disarm		•	
Silent Disarm	•	•	
Panic Mode	•3s		
Lock	•		Ignition On
Unlock		•	Ignition On
Valet Mode		•3s	Ignition On
Anti-Hijack	•3s	•3s	Ignition On



Code

• - Press

•3s - Press and Hold for 3 seconds

The transmitter to incorporate random encryption (Code Hopping Technology) to ensure that the code is changed each time the transmitter is pressed.

The system will include a transmitter learn facility and will recognise up to a maximum of 4 transmitters.

Function:

1. **Arm/Disarm**

When the alarm is armed and the doors locked the LED will flash slowly to indicate that the system is armed. The system will sound for 30 seconds when triggered.

When the alarm system is disarmed, the siren will chirp twice (when the setting of software switch "10" is siren), the indicators will flash twice, the LED will turn off and the central door locking will unlock.

2. **Panic**

Holding button 1 for more than 3 seconds will activate panic mode. The siren will sound and the indicators will flash until the user presses button 1 again to turn off panic mode.

3. **Silent Arm and Silent Disarm**

Pressing buttons 1 and 2 together will arm or disarm the alarm system without beeping the siren unit. All other features including the indicator flashes will remain the same. The alarm system will still sound if the alarm system is providing a warning i.e three flash door open warning or 4 flash alarm triggered warning. To disarm the alarm system normally, press the disarm button. If the alarm system has been triggered, pressing either button will stop the alarm cycle but the alarm system will remain armed and the doors will remain locked. To fully disarm the alarm systems, press the disarm button again.

4. **Auto Re-arming**

The alarm system will re-arm 30 seconds after it has been disarmed unless a doors, boot or bonnet is opened or the ignition is switched on. This feature is to avoid accidental disarming of the alarm system (software selectable feature). The alarm system will lock the central door locking on re-arming (software selectable feature).

5. **Ignition Safety Door Lock/Unlock**

5 seconds after the ignition is turned on, the doors will lock for passive safety and will automatically unlock when the ignition is switched off. If the door is opened within 5 seconds of the ignition being switched on, the door lock pulse will be cancelled to prevent the driver being locked out. This feature is programmed by a software switch.

6. **Intrusion Warning**

If the alarm has triggered during an armed period, the siren will beep 4 times (when the setting of software switch "10" is siren) when the system is disarmed to indicate to the driver that the alarm has been triggered.

7. **Passive Arming**

Turning off the ignition and then opening and closing a door will cause the indicators to flash twice and LED to flash quickly to indicate that the passive arming sequence has begun. If all the doors, boot and bonnet remain closed for 30 seconds the alarm system will arm.
This feature can be selected by using a software switch.

8. **Valet Mode**

When the ignition is switched on, press button 2 for over 3 seconds, the parking lights will flash 3 times. This will mean that the alarm system is off (valet mode) but the central door locking and auxiliary output will continue to function as normal. This mode is called valet mode and is indicated by the LED staying on constantly.

If button 2 is pressed again for 3 seconds with the ignition on, the alarm system will return to normal operation and will be indicated by three beeps from the siren.

9. **Trigger memory with Diagnostic**

When the ignition is first turned on the sensor which has triggered the alarm system will be indicated by the number of flashes from the LED.

Flashes	Trigger Input
2	Door (-)
3	Door (+)
4	Ignition
5	Shock sensor

10. **Zone By Pass**

When the alarm system is triggered by a door or ignition three times in one armed period the alarm system will then ignore any further signals from that sensor. All other sensors and the starter kill will remain activated when the sensor is by passed.

11. PIN Code Disarming

If the alarm system is armed and the user has broken their transmitter or the batteries are exhausted, then the disarm code can be used to enable the user to start the vehicle. The sequence is as follows :-

a.) Switch the ignition off and on 3 times within 7 secs
b.) To attract the users attention, the LED will fast flash for 3 seconds
c.) After 3 secs, the LED will flash at a rate on 1 flash per second
d.) The user should count the flashes and turn the ignition off after the number of flashes equal to their PIN code.
e.) If the PIN code is entered correctly, the system will return to disarm mode when the ignition is switch off. If the PIN code is incorrect, then the alarm system will remain in armed mode.

If an incorrect PIN code is entered twice in succession, the alarm system will block all PIN code operations for 3 minutes. During this 3 minutes blocking period, the LED will flash at double rate

12. Anti-Hi-Jack Facility

The GENIUS 300 PLUS system includes an anti-Hi-Jack facility and the sequence for this facility is as follows :-

The anti Hi –Jack facility is activated by :-

- Turning on the ignition after opening and closing a door
- By pressing button 1 and 2 on the transmitter

Transmitter operated Hi-Jack facility is available regardless of the setting of the anti Hi-Jack software switch. All other hi-jack operations can be disabled by turning off the anti-Hi-Jack software switch.

Once the Hi-Jack facility has been enabled, it will operate as follows :-

i) Flashers will flash once to indicate that the sequence has begun
ii) The LED will flash the disarm code sequence once (full 9 flashes of LED) and if the ignition remains on, it will then slow flash for 30 seconds. If the Anti-Hi-Jack facility was activated by the remote control, the Hi-Jack facility can be cancelled by pressing both buttons on the same transmitter for 3 seconds.
iii) After this 30 second warn period, the siren will sound and the flashers will flash for 30 seconds.

iv) After this 30 second alarm sounding period, the internal immobiliser will energise to immobilise the vehicle and the siren and flashers will keep flashing. This period will last for 60 seconds.

v) After this period, the system will return to the arm mode with the doors unlocked, but the indicators will continue to flash until the alarm is completely disarmed by the Disarm Code.

There are two methods of returning the system to disarm mode once the Anti-Hi-Jack system has been enabled:-

i) If the Anti-Hi-Jack facility has been enabled by remote control, the same transmitter can be used to return the system to disarm mode by pressing and holding both buttons on the remote control for 3 seconds. The remote control can only be used if the Anti-Hi-Jack facility was enabled by remote and only during the first 30 second pre-warn period. After this time, the disarm code must be used.

ii) If the Anti-Hi-Jack switch is turned on, the user must enter the Disarm Code before driving away. When the ignition is turned on, the LED will fast flash for 3 second to attract the user attention. The LED will then flash at a rate of one flash per second. The user counts the flashes and when the LED has flashed a number of times equal to the Disarm Code, they switch off the ignition. If the code is correct, when they switch the ignition back on, the system will enter fully disarmed mode. If the code is not correct, then the system will continue with the car jacking procedure.

If the car jacking mode is enabled, the trigger memory with diagnostic code will be disable.
If car jacking is started automatically by open and close the door with the ignition on, then the transmitters will be ignored.