

User manual

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Safety Measures for Operating the Immobilizer

Please read carefully!

Some simple requirements must be observed for safe use of the immobilizer:

1. The immobilizer shall be installed only by qualified specialists. The immobilizer is connected to the car circuits related to engine operation. A radio channel is used for data exchange in the system, therefore stable tag identification depends on correct arrangement of the immobilizer components.
2. If you hear a sound signal, warning about blocking, during car driving, – immediately take actions for safe stop. Engine blocking may cause increase of the force necessary for steering wheel turning and the force of brake pedal pressing. It is extremely dangerous, particularly at high-speed driving.
3. If you hear a signal, warning about discharge of the tag battery, take timely actions to replace the battery. It is recommended to have a new battery in the car, keeping its factory packing.
4. Do as follows to use the car on which the immobilizer is installed:
 - carry along the tag
 - know the unlocking code

The transport vehicle cannot be drove in case of tag loss and absence of the unlocking code!

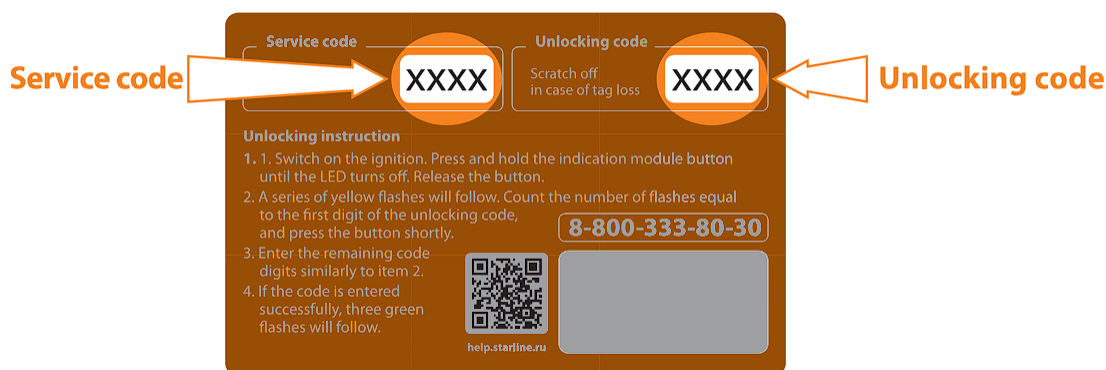
General Description

The **StarLine i95 LUX, i95, and i95 ECO** immobilizers are designed to protect the vehicle from theft and hijacking (hereinafter referred to as the immobilizer). Protection is provided by engine blocking. Data exchange between system components is carried out via radio channel (in the frequency range of 2.4 GHz) using encryption resistant to intellectual hacking.

Key Features

- Protection against theft and hijacking.
- Automatic owner recognition.
- Secure radio channel.
- Built-in motion sensor.
- Control of hood (door) lock.
- Waterproof tag.
- Universal connection channel.
- Configuration via the [StarLine Master](#) application.

Plastic card



The immobilizer delivery set includes a plastic card containing the following data:

- **Service code** — It is intended for setting and programming of immobilizer parameters. The service code is provided in the open form.
- **Unlocking code** — Allows for driving the car in case of battery discharge or tag loss. The unlocking code is hidden under a scratch strip.

Do not tell the unlocking code to anyone! Remember that a malefactor, knowing the personal code, may deactivate the immobilizer's protective functions. If you have grounds to think that the unlocking code became known to third parties, change it as soon as possible.

You should carry along the plastic card or note down the unlocking code in an accessible place (for instance, in the mobile telephone).

Technical Specifications

Blocking module

Parameter	Value
Frequency range of control radio signals, GHz	2.4
Type of control code	dialogue
Maximum coverage range	up to 10 meters (*)
Ingress Protection	IP67
Supply Voltage, V	9-16
Consumption current with switched-off ignition, mA	• 6.6 (i95, i95 LUX) • 2.4 (i95 ECO)
Consumption current with switched-on ignition, mA	6.8 (**)
Maximum current load via relay contacts, A	10
Maximum current load at hood lock outputs, A	20
Operating temperature range, °C	from -40 to +125

(*) — depends on location of the immobilizer components

(**) — with engine blocking inactive

Indication module

Parameter	Value
Frequency range of control radio signals, GHz	2.4
Type of control code	dialogue
Maximum coverage range	up to 10 meters (*)
Ingress Protection	IP67
Supply Voltage, V	9-16
Consumption current with switched-off ignition, mA	0.01
Operating temperature range, °C	from -40 to +85

(*) — depends on location of the immobilizer components

Tag

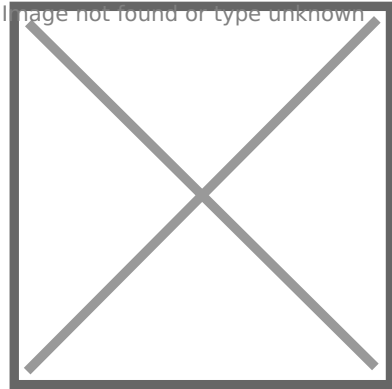
Parameter	Value
Frequency range of control radio signals, GHz	2.4
Type of control code	dialogue
Maximum coverage range	up to 10 meters (*)
Ingress Protection	IP67
Supply Voltage, V	3.3
Operating temperature range, °C	from –20 to +70
Battery type	CR2025, CR2032
Battery life time	up to 12 months

(*) — depends on location of the immobilizer components

Table of possible indications

Event	Tag (LED)	Sound indication	Notes
Warning of upcoming engine blocking	—	intermittent sound signals	Take action to stop the car
Discharged tag battery	image not found or type unknown 	3 sound signals	Install new battery
Normal security mode	image not found or type unknown 	—	If the LED flashes once at button pressing, the tag is outside the coverage range. Security functions are disabled in the service mode.
Antihijack mode	image not found or type unknown 	—	
Service mode	image not found or type unknown 	—	
Successful tag authorization	—	1 sound signal	
Tag is absent. Prompt to enter the unlocking code	—	long sound signal	For immobilizers i95 ECO, i95.
Normal mode. Tag is absent	—	1 sound signal every 2 minutes	If the tag was lost after motion start (in the normal security mode)
Failure of the hood lock circuit	—	2 sound signals	Fix hood lock circuit

Control via Tag



The tag serves as an electronic key. When traveling in a vehicle equipped with an immobilizer, it is necessary to always have the tag with you. Exchange of codes via radio channel between the tag and the locking module prevents engine locking during the journey. If an attempt is made to drive the vehicle without the tag, the engine will be locked.

It is recommended to carry the tag separately from the main keychain. Do not leave the tag in the car - in this case, the protective functions of the immobilizer will be disabled.

The tag has a button and a tricolor LED indicator, which are used for:

- Displaying the current operating mode.
- Monitoring the communication between the tag and the locking module.
- Switching between security modes.
- Entering the service mode.

The tags included in the immobilizer kit are initially in transport mode, in which they are disabled! Pressing the tag button in this mode will be indicated by green and red flashes of the built-in LED.

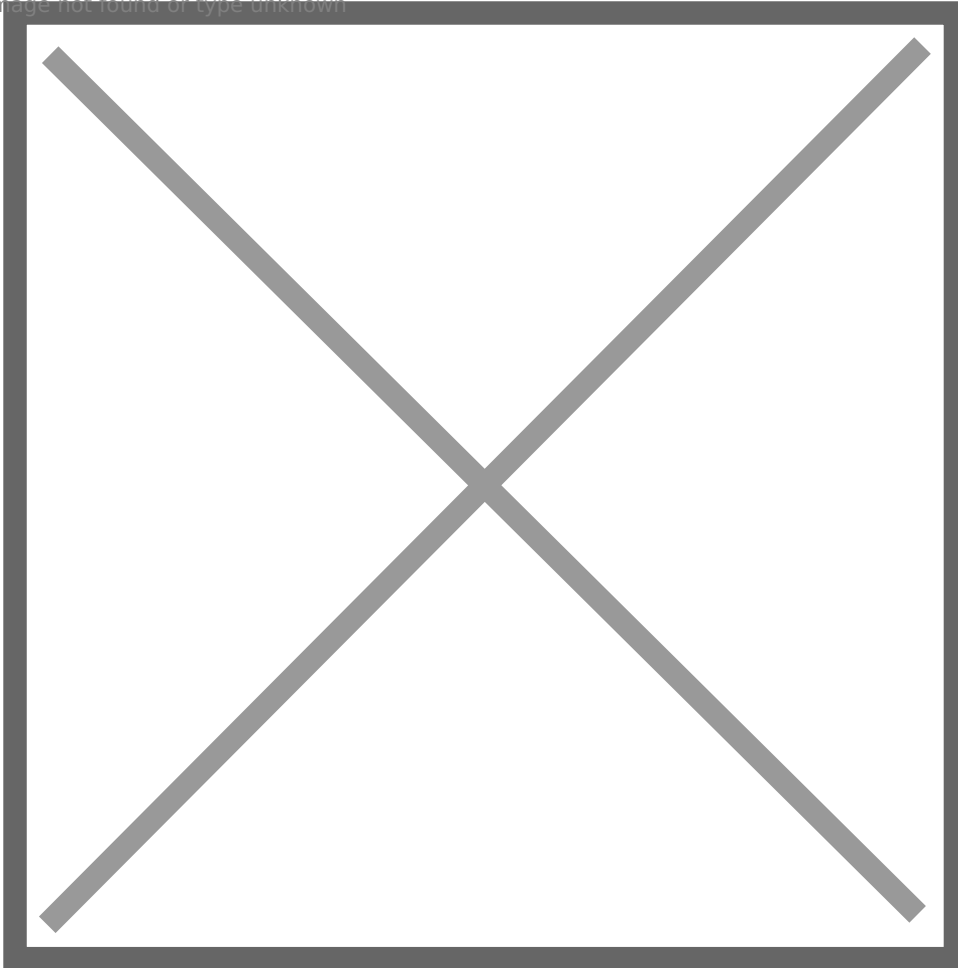
Before starting operation, it is necessary to press the tag button several times until the color of the flashes changes to green.

Up to four tags can be registered in the immobilizer, and all tags can be inside the car simultaneously.

Checking the Operating Mode and Communication Control

1. Briefly press the tag button.
2. The tag LED will flash 1 or 2 times. The flash color will correspond to the current operating mode of the immobilizer.

Image not found or type unknown



3. The second LED flash indicates the presence of stable communication between the tag and the locking module.

If the second flash is absent, the communication between the tag and the locking module is disrupted. This may occur when moving away from the vehicle at a distance of more than 10 meters or in the presence of strong interference.

In the **i95 ECO**, when the ignition is off, there is no communication between the tag and the locking module.

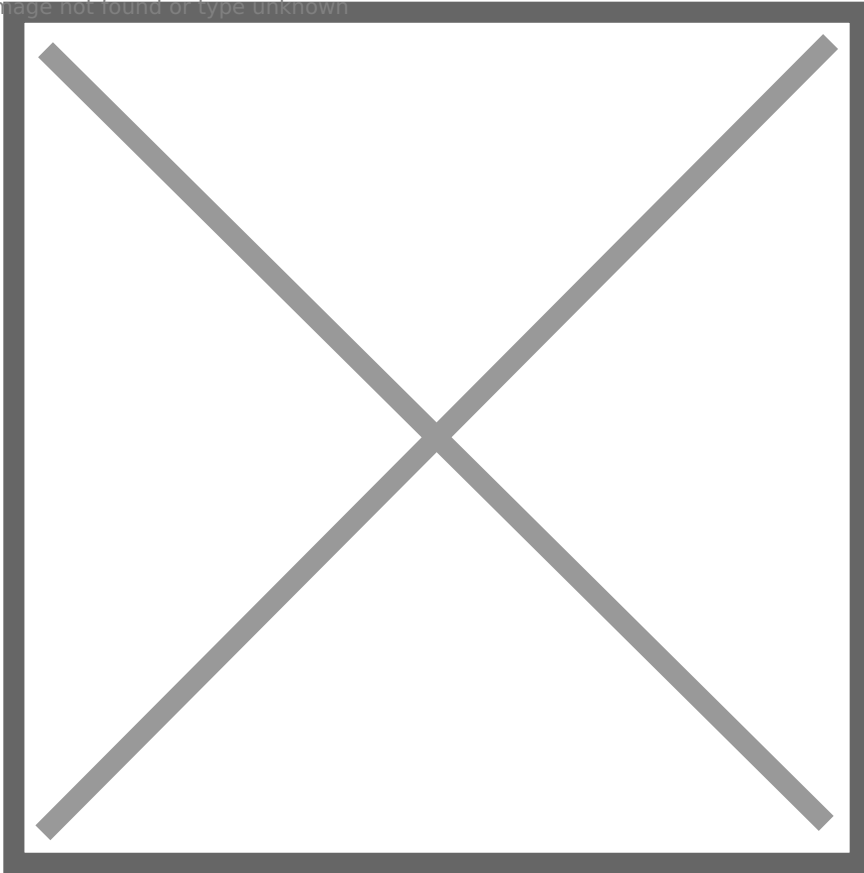
Choosing the Security Mode

To change the security mode, follow these steps:

1. Press and hold the tag button.
Immediately after pressing, the tag will indicate the current operating mode and the status of the communication with the locking module. If the button is held for more than 2 seconds, the LED will light up for 2 seconds. The flash color will correspond to the next security mode.
2. Release the tag button during the 2-second period indicating the next security mode.
3. Successful mode change will be confirmed by a flash of the LED, the color of which will correspond to the new operating mode.

Example of transitioning from normal mode to antihijack mode:

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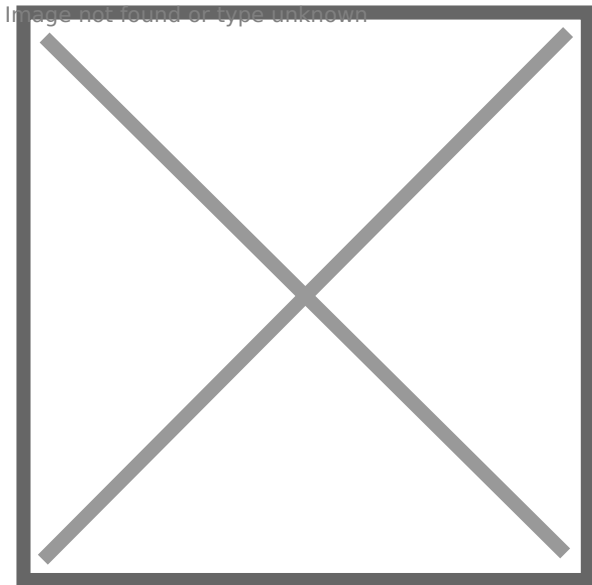
Transition between security modes can be performed even if there is no communication between the tag and the locking module (when away from the vehicle). The selected mode will be set after the first successful exchange of codes between the tag and the immobilizer.

Low Battery Alert for Tag

To prevent engine locking in case of tag battery discharge, the immobilizer monitors its charge level.

A low battery level in the tag is indicated by three short audible signals within 5 minutes after turning on the ignition.

Additionally, battery discharge is indicated by three flashes of red color when pressing the tag button.

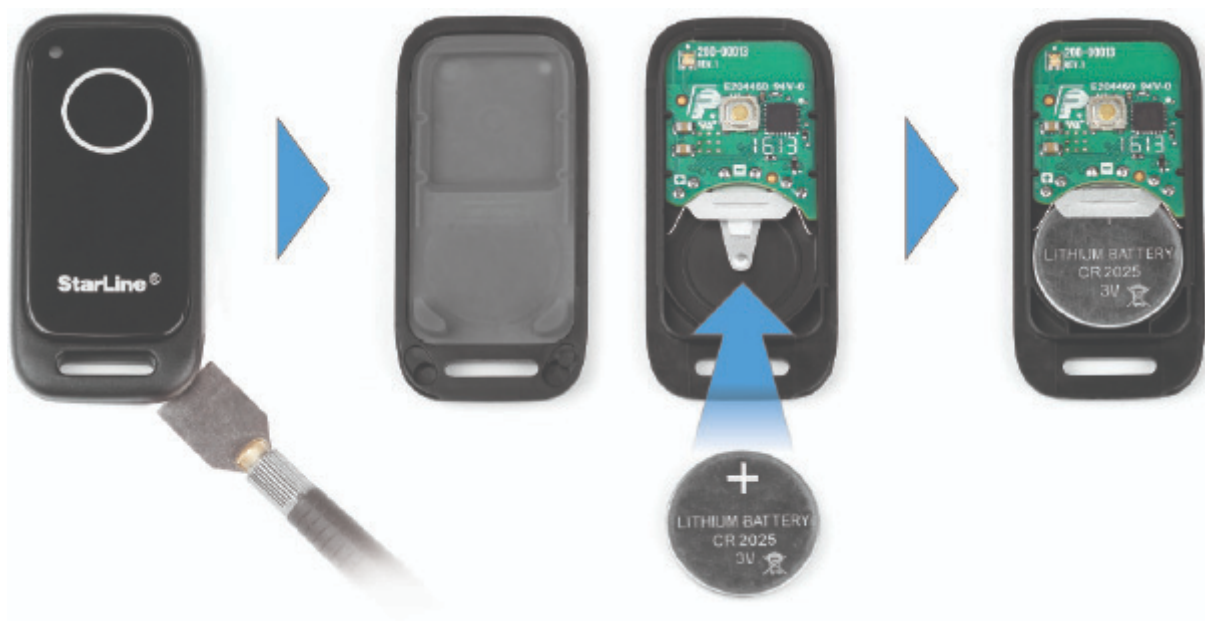


Complete battery discharge will result in tag deactivation. In this case, the engine will be locked. When the battery discharge indication appears, it is necessary to replace the battery as soon as possible.

Battery Replacement

The tag uses one CR2025 or CR2032 type battery. The battery life is up to 12 months and depends on the quality of the battery and the immobilizer settings.

To replace the battery, carefully use a flat metal or plastic object (metal ruler, thin plastic) to open the tag housing and, observing the polarity (as shown in the photo), install the battery into the compartment. Before closing the tag housing, place a waterproof seal between its parts. After installing the battery in the tag, the immobilizer is ready for use.



Control via Indication Module



The indication module is installed inside the vehicle. The main purpose of the indication module is to provide advance warning of an impending engine lockout, which may occur due to the absence of the tag or its battery being fully discharged.

Additionally, the indication module:

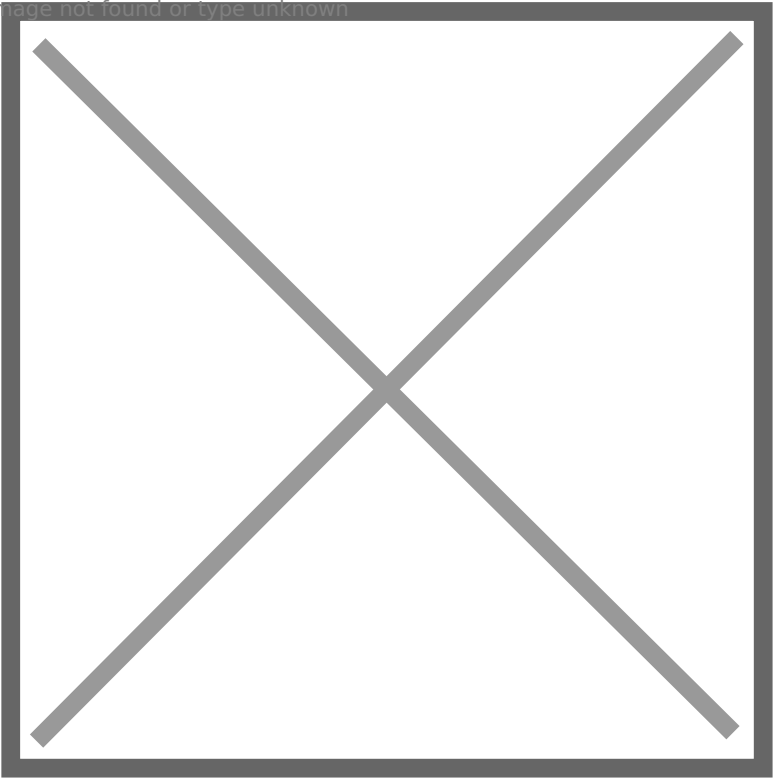
- Displays the current operating mode.
- Shows the number of tags registered in the locking module.
- Indicates the discharge of the tag battery.
- Is used for entering the unlock code.
- Allows access to the "Programming" and "Device Registration" modes.

Only one indication module can be registered in the immobilizer.

Communication Control

1. Turn on the ignition. The indication module will establish communication with the locking module (within 10 seconds). This procedure will be indicated by green flashes of the LED on the indication module.
2. After establishing communication with the locking module, the LED will stay lit for 2 minutes. During this time, the color of the LED will indicate [the operating mode](#).

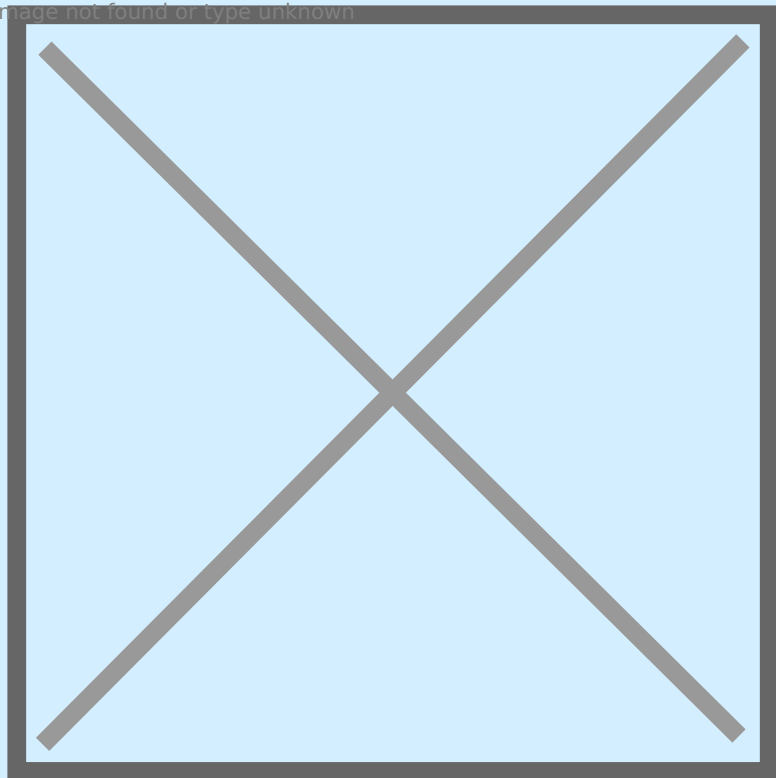
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If communication with the locking module fails (for example, due to high levels of interference), the indication module will issue a warning with a red flash of the LED and an audible signal.

Subsequently, the LED on the indication module will flash red every minute until the ignition is turned off or until the locking module is within radio communication range. If communication with the locking module is lost some time after turning on the ignition, no warning signals will be issued.

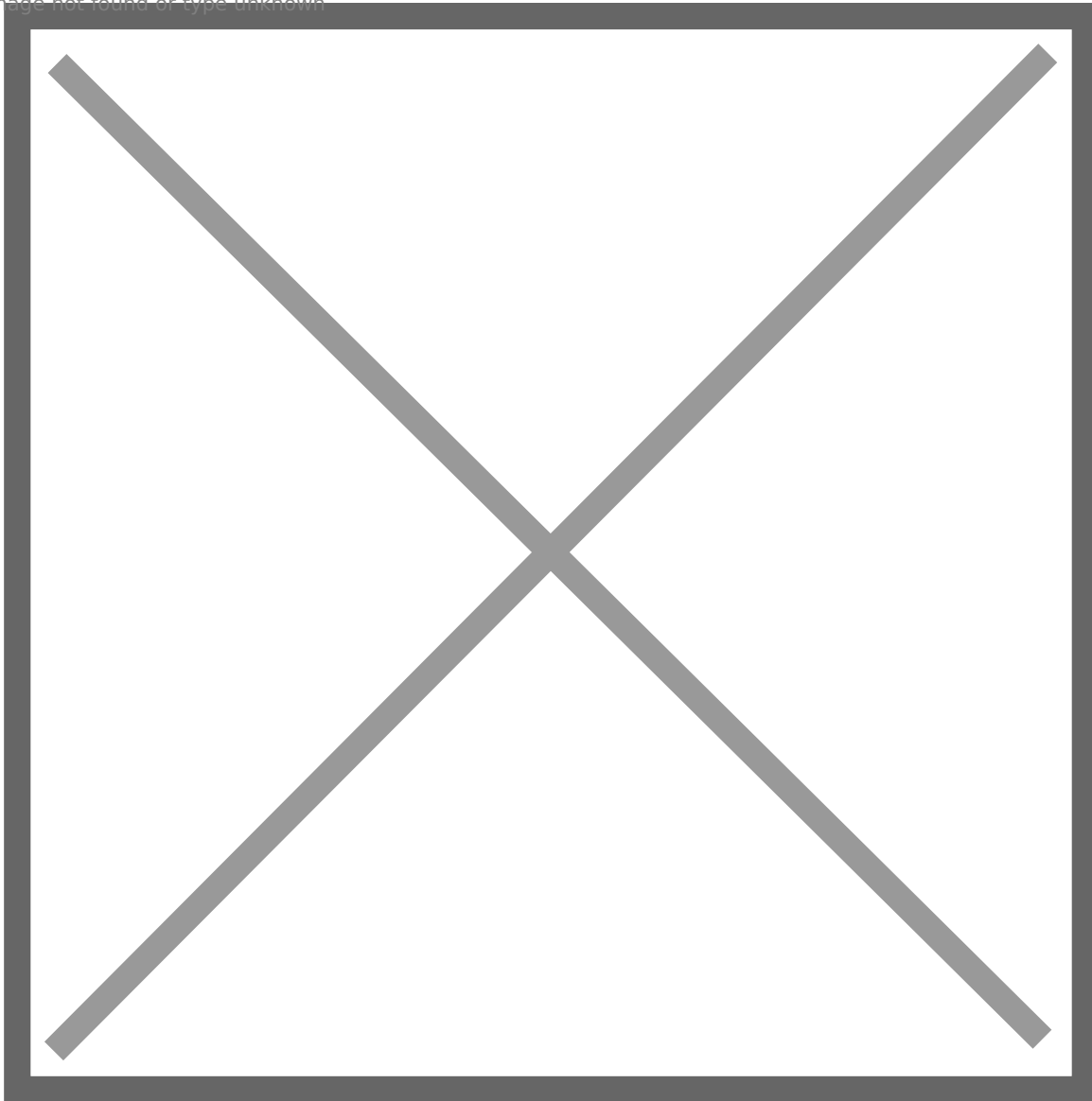
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Checking Operating Mode

Briefly press the indication module button. The LED on the module will stay lit for 2 minutes. The color of the indication will correspond to the current operating mode of the immobilizer.

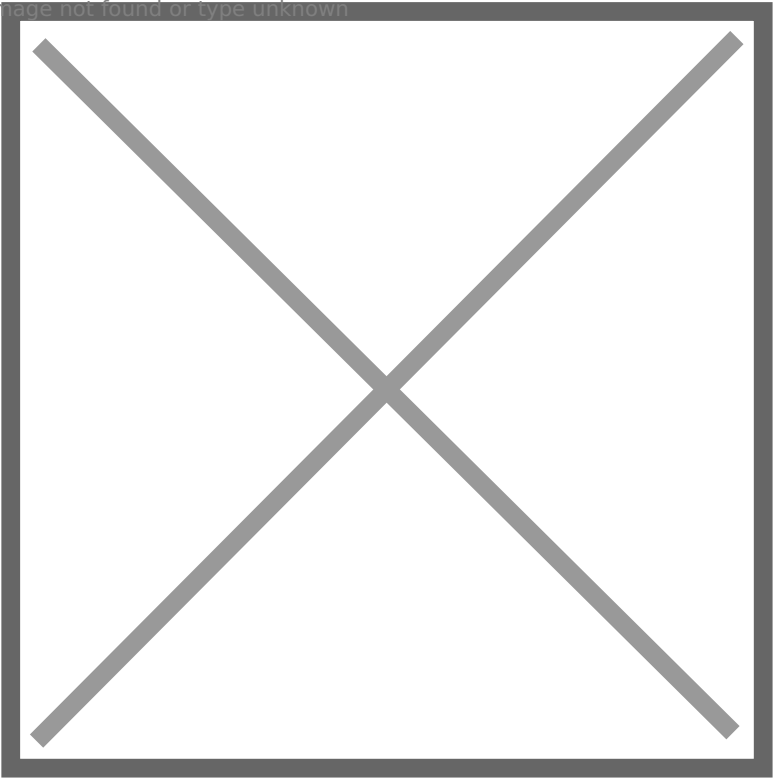
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Checking the Number of Registered Devices

1. Briefly press the indication module button. The LED on the module will stay lit for 2 minutes.
2. During the two-minute indication, press the button again briefly - the LED will go out for a short time. Then flashes of green color will follow, the number of which will be equal to the number of registered tags.

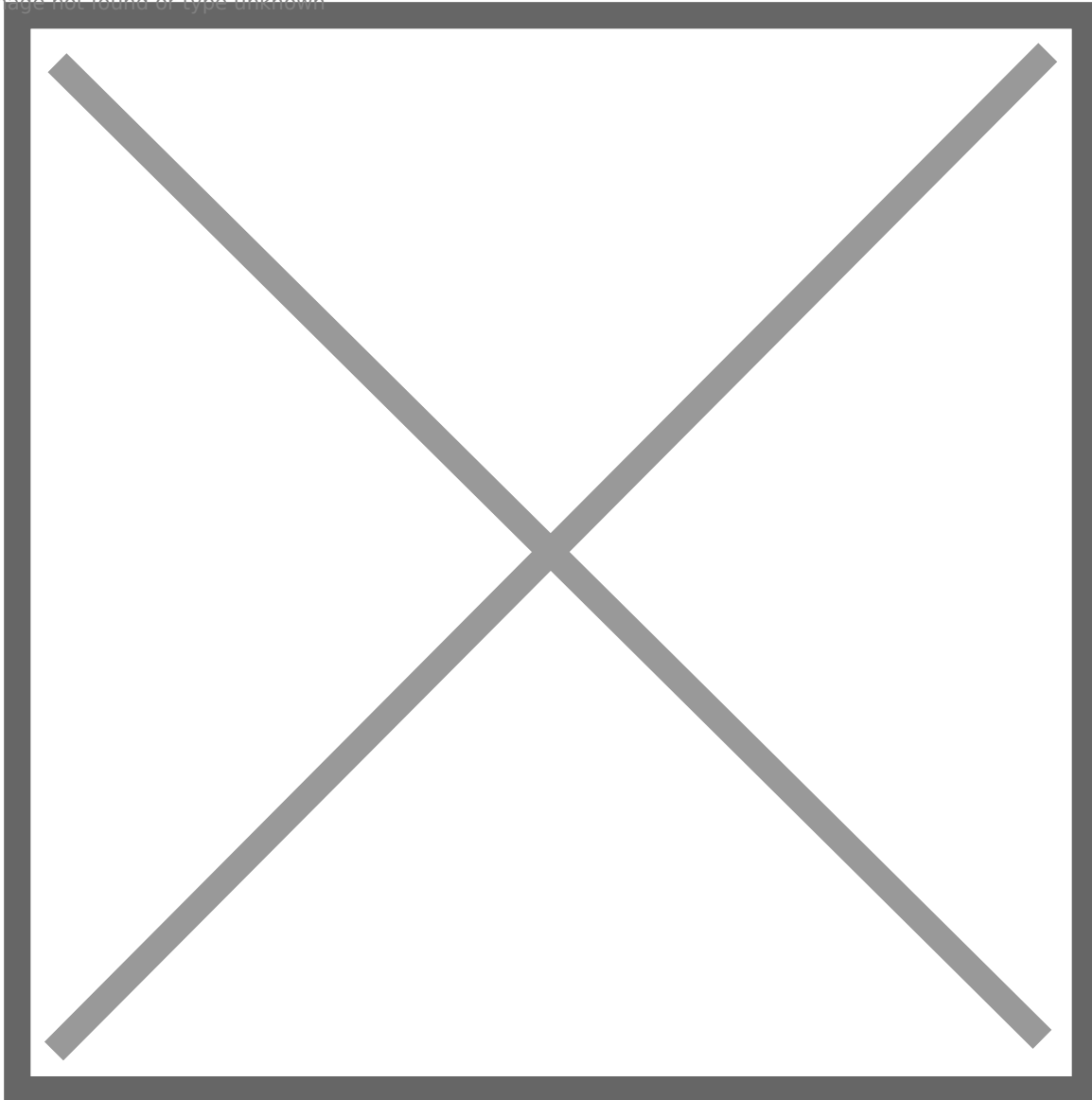
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Operation Modes and Functions

The immobilizer is a system for engine start access with protection and service functions.

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For driving a vehicle equipped with the immobilizer, it is sufficient to have the tag with you. After the tag appears within the range of the locking module, automatic code exchange occurs between them via radio communication. The vehicle protection is provided by engine locking when attempting to move the vehicle without communication with the tag.

Locking is activated only if the vehicle is in motion with the engine running (ignition on). If the tag is absent in the reception area and the engine is running but the vehicle is stationary, locking is not activated. This allows the immobilizer to be used in conjunction with any automatic and remote engine start systems.

The immobilizer has the following structure of operating modes:

Security Modes	Normal mode
	«Antihijack»
Additional Modes	Service mode
	«Emergency unlock»
	«Telematic configuration»
	«Programming»
	«Device registration»

Security modes provide protection against theft (normal mode) and protection against armed robbery («Antihijack»).

Additional modes are intended for servicing and configuring the immobilizer (service mode, telematic configuration mode, and parameter programming mode), disabling security functions in case of battery discharge, loss of the tag (emergency unlock mode), as well as registering new components in the system (device registration mode).

The main differences between the modes are summarized in the table.

Parameter	Security Modes		Additional Modes				
	Normal	Anti-hijack	Service mode	Telematic configuration	Emergency unlock	Programming	Device registration
Color Indication (Tag, Indication Module)					unknown	—	—
Entry into mode	using tag			using PC	using ignition key (i95 ECO, i95) using indication module button (i95 LUX)		

Exit from mode	using tag		using PC	upon tag appearance		upon ignition switch off	
Block activation	permitted	prohibited				permitted	prohibited

Normal Mode

In normal mode, after the ignition is turned on, the tag should remain inside the vehicle until the first successful data exchange. Subsequently, the presence or absence of the tag does not affect the operation of the immobilizer — the engine will not be locked until the next ignition switch on. The presence of the tag is monitored in the background: if communication with the tag is interrupted (for example, if it is left in the garage), periodic audible signals about the absence of the tag will be emitted.

«Antihijack» Mode

In "Antihijack" mode, the immobilizer constantly checks for the presence of the tag inside the vehicle. If the tag disappears from the area of action while driving, an audible warning about the impending lockout will start, and 20 seconds later the engine will be locked. If the tag is absent from the moment the ignition is turned on, the lockout will occur when starting to move.

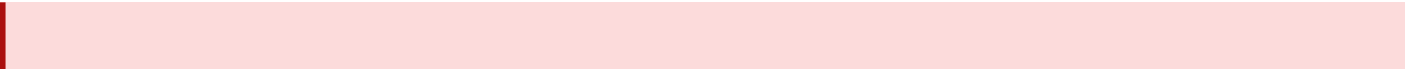
Automatic data exchange between the tag and the immobilizer prevents engine locking after tag recognition for 40, 60, or 120 seconds depending on the settings made.

If brake pedal polling is used in the system, engine locking when the tag is lost in "Antihijack" mode will occur after pressing the brake pedal. If the brake pedal was not pressed, the lockout will occur after a double set time interval.

For the "Antihijack" mode to work, engine locking while driving must be enabled in the settings. Otherwise, the engine will be locked when the ignition is turned on.

Engine Blocking

Upon detecting the tag within the reception area after ignition is turned on, a short audible signal is emitted (unless otherwise specified by settings). If by the time the vehicle starts moving, communication session hasn't occurred (either due to tag absence or tag battery depletion), audible signals indicating imminent blocking (depending on the selected security mode and settings) are activated, and engine blocking commences.



If you hear the audible indication of imminent blocking, take immediate measures to safely stop the vehicle!

Engine blocking is activated for 20 seconds. If the vehicle starts moving after the blocking cycle ends, the blockage will be reactivated for another 20 seconds. Each attempt to move the vehicle with the ignition on will result in engine blocking. If blocking occurs 3 times consecutively, the engine will be blocked until the tag reappears.

If intermittent blocking algorithm is set in the settings, engine malfunction simulation occurs — the blocked circuit periodically breaks and restores according to the following algorithm:

Blocking stages	Blocked	pause	Blocked	pause	Blocked	pause	Blocked
Duration, seconds	2	2	3	2	5	2	20

Driving the vehicle will become possible when:

- the tag appears within the reception area of the locking module;
- emergency unlocking is performed using the unlock code.

Service Mode

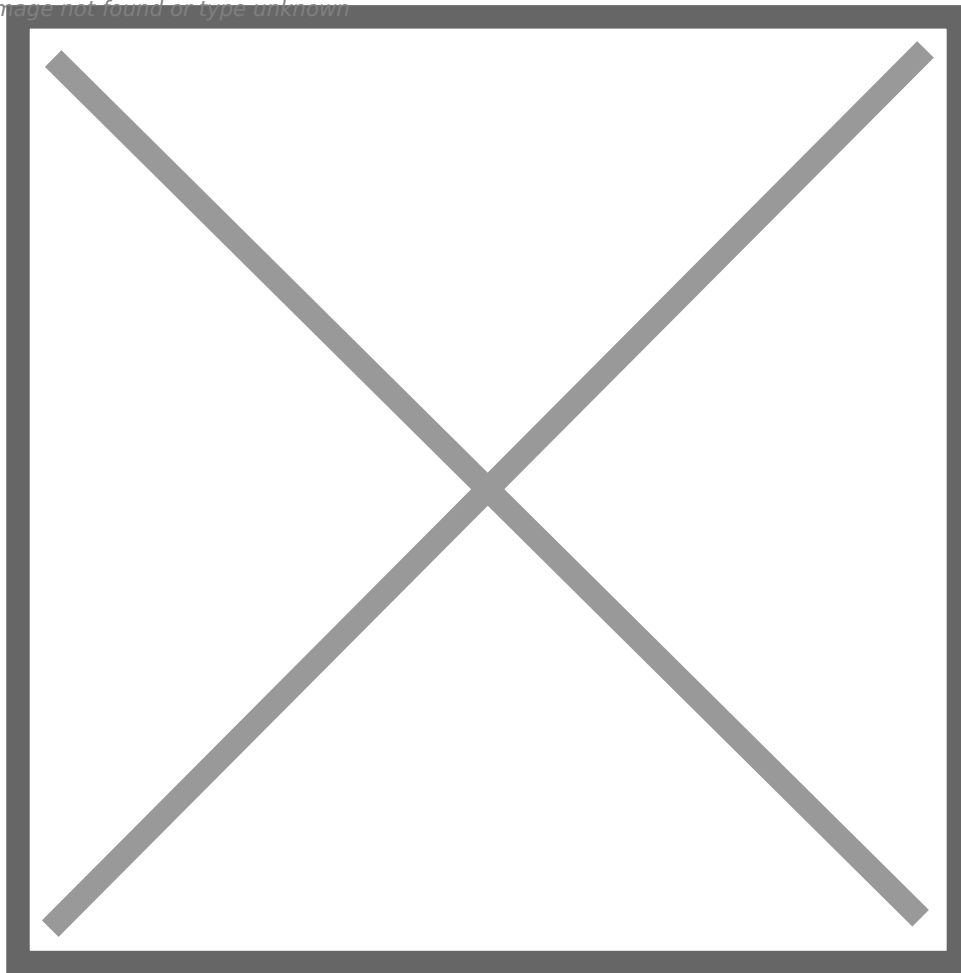
A special mode is provided for servicing the vehicle, in which security functions are disabled. In service mode, the engine is not blocked, and lock control is disabled, regardless of the presence or absence of the tag.

Transitioning the immobilizer to service mode is only possible when the vehicle is within the tag's range.

1. Press and hold the tag button. Immediately after pressing, the tag will indicate the current mode of operation and the communication status with the locking module. Then a 2-second indication of the next security mode will be performed. Hold the button for more than 7 seconds — until the LED turns yellow, indicating the possibility of transitioning to service mode.
2. Release the tag button during the 2-second yellow LED illumination.
3. Transition to service mode will be confirmed by two flashes of the yellow LED.

Example transition to service mode:

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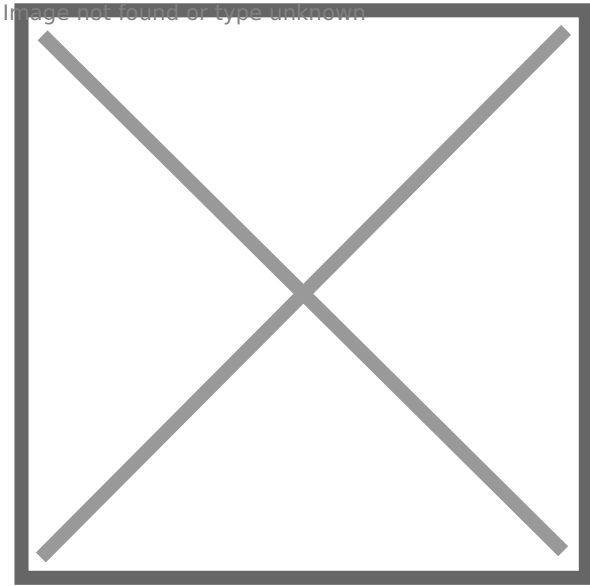


If all tags registered in the immobilizer are lost, exiting the service mode will be impossible.

To exit the service mode, perform the security mode change procedure (press and hold the button until the LED indicates the security mode color, then release the button during the 2-second flash). The immobilizer will return to security mode. It is recommended to test the operation in one of the security modes and ensure that the engine is blocked when attempting to drive the vehicle without a tag.

In service mode, the security functions of the immobilizer are disabled. Use this mode only to transfer the vehicle for service.

«Hands-Free» Mode



Door lock control is possible only for the i95 and i95 LUX immobilizers.

If "Hands-Free" mode is enabled in the settings, the immobilizer will remotely control the door lock according to the algorithm below.

The "open" pulse will be issued:

- when the tag approaches the stationary vehicle to a distance corresponding to the proximity threshold;
- when the ignition is turned off, if the "Unlocking upon ignition off" option is enabled;
- when switching to emergency unlock mode (after entering the unlock code);
- when switching to service mode.

The "close" pulse will be issued:

- when the tag moves away from the stationary vehicle to a distance corresponding to the departure threshold. The departure threshold is automatically calculated based on the proximity threshold value set in the door lock control range settings;
- when starting to move, if the "Additional locking upon movement start" option is enabled.

The "open" pulse will be issued only if the door locking was performed by the immobilizer, and vice versa. If door lock control was performed by any other means (not by the immobilizer), the "open" and "close" pulses will be absent.

When using the universal EXT channel connected to the hand touch sensor, the immobilizer will control the door lock according to the algorithm described below.

The "open" pulse will be issued:

- when the hand touch sensor is triggered in the presence of the tag;
- when the ignition is turned off, if the "Unlocking upon ignition off" option is enabled;

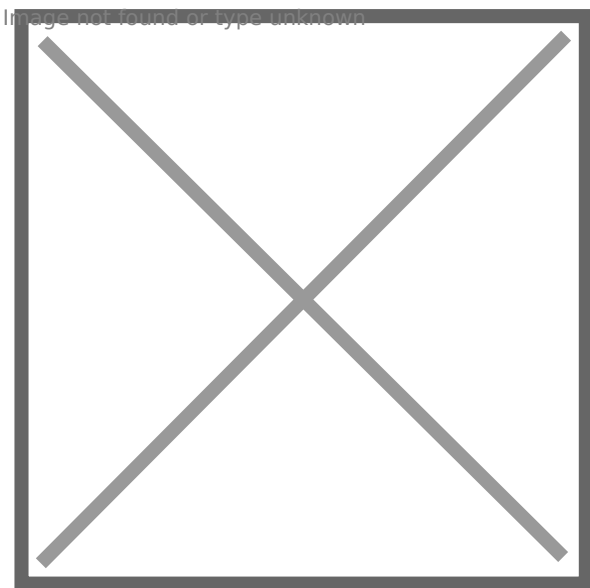
- when switching to emergency unlock mode (after entering the unlock code);
- when switching to service mode.

The "close" pulse will be issued:

- when the hand touch sensor is pressed for a long time (more than 3 seconds) or when the tag moves away;
- when starting to move, if the "Additional locking upon movement start" option is enabled.

In service mode, door lock control is disabled.

«Hood Lock Control»



If the "Hands-Free" mode is disabled in the settings, the immobilizer will remotely control the hood lock using one of the selected algorithms.

Hood Lock Control Based on Ignition Status

The "open hood" pulse will be issued:

- when the ignition is turned on in the presence of the tag;
- when switching to emergency unlock mode (after entering the unlock code);
- when switching to service mode.

The "close hood" pulse will be issued:

- after the tag moves away with the ignition off;
- when issuing audible warnings indicating an impending engine block.

For the **i95 ECO** immobilizer, the hood will be locked 10 seconds after the ignition is turned off.

Hood Lock Control Based on Tag Presence

The "open hood" pulse will be issued:

- when the tag approaches the stationary vehicle to a distance corresponding to the proximity threshold;
- when switching to emergency unlock mode (after entering the unlock code);
- when switching to service mode.

The "close hood" pulse will be issued:

- after the tag moves away from the stationary vehicle to a distance corresponding to the departure threshold;
- when issuing audible warnings indicating an impending engine block.

In service mode, hood lock control is disabled.

Emergency Unlock Mode

The "Emergency Unlock" mode is intended for emergency engine unlocking in case of battery discharge or loss of tags. In this mode, the system's protective functions are disabled until a tag appears within the radio channel's range.

Telematics Configuration Mode

The "Telematics Configuration" mode is designed for convenient and quick configuration of the immobilizer using the StarLine Master application.

Programming Mode

The "Programming" mode is intended for changing the unlock code, checking the stability of communication between the tag and the locking module, and adjusting the immobilizer's operation parameters using the tag. Entering programming mode is possible using either the unlock code or the service code. In the latter case, the option to change the unlock code will be unavailable.

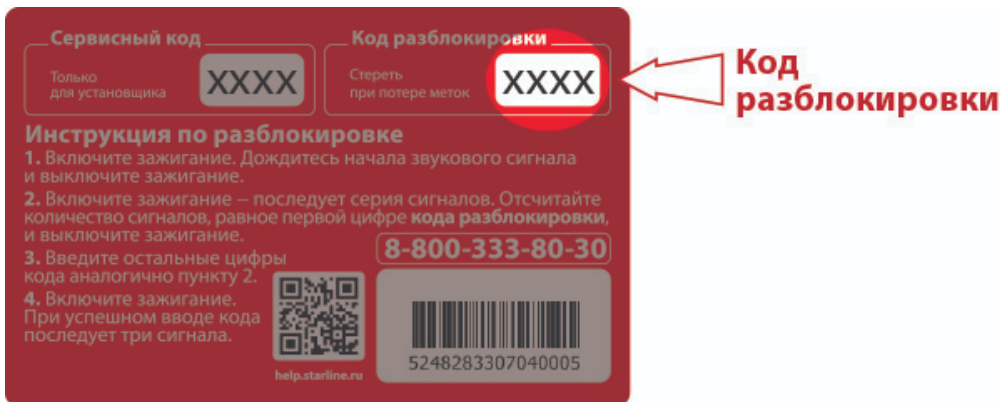
Device Registration Mode

The "Device Registration" mode is intended for registering new components (tags, indicator modules) in the immobilizer's memory.

Emergency Unlock Mode

In case the tags are lost or the battery is discharged, the car's engine will be blocked. To continue driving, it's necessary to switch the immobilizer to "Emergency Unlock" mode.

Entering this mode is done using the unlock code. The unlock code is located beneath the protective layer of the plastic card included in the package. It consists of four digits from 1 to 9 inclusively and can be changed by the user.



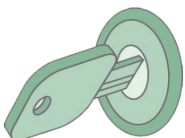
If the unlock code is entered incorrectly, a "long" signal will sound. If the code is entered incorrectly 5 times within 30 minutes, the input procedure will be blocked for 15 minutes. The prohibition on entering the code is lifted when a tag appears.

When switching to "Emergency Unlock" mode, the locking module issues a pulse to open the hood or doors.

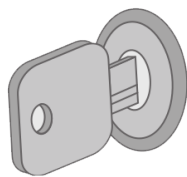
In "Emergency Unlock" mode, the engine is not blocked. Exiting this mode occurs automatically when a tag appears within the range. Turning off the ignition does not exit the "Emergency Unlock" mode.

Unlocking via Ignition for i95 ECO, i95 Immobilizers

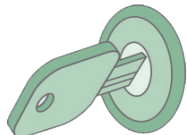
1. Turn on the ignition.



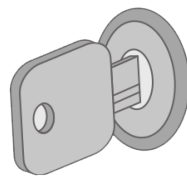
2. Wait for the start of the sound signal (if no tags are present) and turn off the ignition.



3. Turn on the ignition - a series of sound signals will follow.



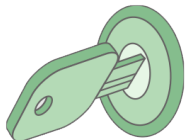
4. Count the number of signals equal to the first digit of the unlock code and turn off the ignition.



5. Enter the remaining digits of the unlock code following steps 3-4.

6. Turn on the ignition.

If the unlock code is entered correctly, 3 short sound signals will follow.



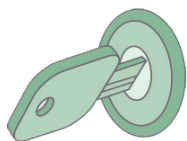
The immobilizer will switch to "Emergency Unlock" mode.

Example of entering the unlock code 1798 using the ignition:

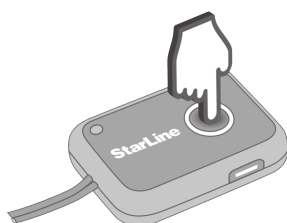
	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 
Зажигание											
Звуковой сигнал	через 20 сек.	 10 сек	 1 раз	 7 раз	 9 раз	 8 раз	 3 раза				

Unlocking via Indicator Module for i95 LUX Immobilizer

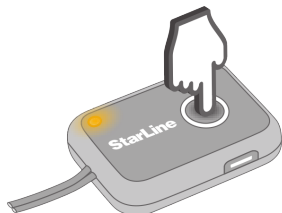
1. Turn on the ignition



2. Press and hold the indicator module button for more than 3 seconds - until the LED goes out. Release the button.



3. Yellow flashes will follow, accompanied by sound signals. Count the number of flashes equal to the first digit of the unlock code and briefly press the indicator module button. The entry of the first digit is complete.

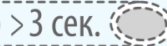


4. Enter the remaining digits of the unlock code following step 3.
5. If the code is entered correctly, 3 short sound signals will follow, accompanied by green LED flashes.



The immobilizer will switch to "Emergency Unlock" mode

Example of entering the unlock code 1798 using the indicator module:

Нажатие кнопки модуля		   > 3 сек.					
Световой сигнал		 до 2 мин.	 1 раз	 7 раз	 9 раз	 8 раз	 3 раза
Звуковой сигнал			 1 раз	 7 раз	 9 раз	 8 раз	 3 раза

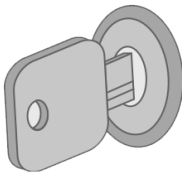
Changing the unlock code

To change the code to a new one, you need to know the current unlock code.

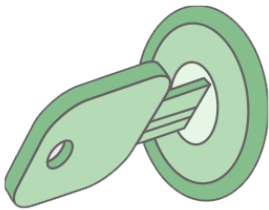
Changing the unlock code requires entering the "Programming" mode.

Entering the "Programming" mode for i95 ECO and i95 Immobilizers:

1. Switch the immobilizer to "Emergency Unlock" mode and leave the ignition on.
2. After 20 seconds, a long (10-second) signal will sound. Turn off the ignition during the long signal.



3. Turn on the ignition. There will be 5 short confirmation sound signals.



The immobilizer will enter the "Programming" mode.

Example of entering the "Programming" mode using the unlock code 1798 for i95 ECO, i95 Immobilizers

1. Switch the immobilizer to "Emergency Unlock" mode.

	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 	Выкл. 	Вкл. 
Зажигание											
Звуковой сигнал	через 20 сек.	 10 сек.	 1 раз	 7 раз	 9 раз	 8 раз	 3 раза				

2. Switch the immobilizer to "Programming" mode.

	Вкл. 	Выкл. 	Вкл. 
Зажигание			
Звуковой сигнал	 3 раза	через 20 сек.  10 сек.	 5 раз

Entering "Programming" mode for i95 LUX Immobilizer

1. Switch the immobilizer to "Emergency Unlock" mode and leave the ignition on.
2. Press the button on the indicator module briefly.

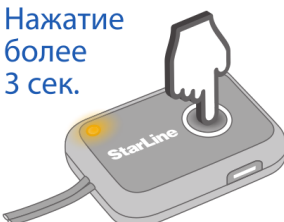
Короткое нажатие



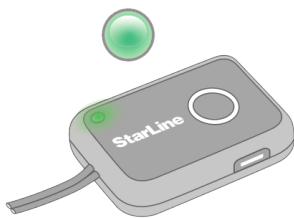
The LED will start flashing yellow.

3. Within the next 2 minutes, press and hold the button on the indicator module for more than 3 seconds until the LED goes out.

Нажатие более 3 сек.



4. Release the button. There will be 5 short signals with the green LED flashing.



The immobilizer will enter the "Programming" mode.

Example of entering the "Programming" mode using the unlock code 1798 for i95 LUX Immobilizer

1. Switch the immobilizer to "Emergency Unlock" mode.

Нажатие кнопки модуля		 > 3 сек. 					
Световой сигнал	до 2 мин.		 1 раз	 7 раз	 9 раз	 8 раз	 3 раза
Звуковой сигнал			 1 раз	 7 раз	 9 раз	 8 раз	 3 раза

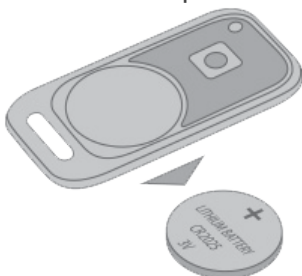
2. Switch the immobilizer to "Programming" mode.

Нажатие кнопки модуля		 > 3 сек. 	
Световой сигнал		мигания до 2 мин.	 5 раз
Звуковой сигнал			 5 раз

Changing the unlock code

To change the unlock code after switching the immobilizer to "Programming" mode, follow these steps:

1. Remove the power source from the tag.



2. Insert the power source into the tag.



3. After a few seconds, the LED on the tag will start flashing green, indicating parameter input.

Мигания
по 3 сек.



4. Press the button on the tag once when the LED is lit.



After the LED stops flashing, there will be a short green flash, after that the LED will turn red.

5. While the LED is lit press the button the number of times corresponding to the first digit of the new unlock code (from 1 to 9).



A series of red flashes will follow, the number of which will correspond to the button press. After a short pause the LED will light up again.

6. Enter the remaining digits of the new unlock code following step 5.
7. Successful change of the unlock code will be confirmed by a series of sound signals corresponding to its new value: the number of signals in the first series will correspond to the 1st digit, the second series to the 2nd digit, the third series to the 3rd digit, and the fourth series to the 4th digit of the new code.

The immobilizer will remain in "Programming" mode until the ignition is turned off.

Example of entering a new unlock code 5678 using the tag

Нажатие кнопки метки	 5 раз		 6 раз		 7 раз		 8 раз	
Световой сигнал	3 сек. 	5 раз	3 сек. 	6 раз	3 сек. 	7 раз	3 сек. 	8 раз

Device registration mode

For registration of new components the immobilizer should be set to the device registration mode

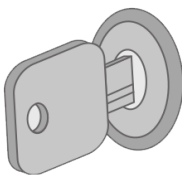
Switchover to the registration mode from the service mode is impossible

To prevent unauthorized tag registration, entry in the device registration mode is possible only after entry of the unlocking code (given on the plastic card). If you have told the unlocking code to the installation specialist, change it after completion of device registration.

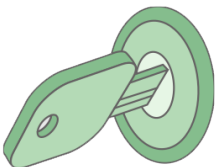
Data exchange via the radio channel during registration is unencrypted. Registration should be performed in an open space far away from possible signal interception areas.

Device Registration Mode Entry for Immobilizers i95 ECO and i95

1. Switch the immobilizer to "Emergency Unlock" mode and leave the ignition on.
2. After 20 seconds, a long signal (10 seconds) will sound. Turn off the ignition during this long signal.

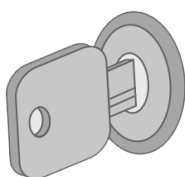


3. Turn on the ignition. Five short confirmation beeps will follow.

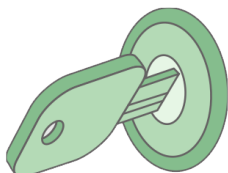


The immobilizer will enter "Programming" mode.

- After 20 seconds, a long signal (10 seconds) will sound. Turn off the ignition during this long signal.



- Turn on the ignition. Seven short confirmation beeps will follow.



The immobilizer will enter "Device Registration" mode.

The immobilizer will remain in programming mode until the ignition is turned off.

Example of entering "Device Registration" mode using the unlock code 1798 for immobilizers i95 ECO and i95

- Switch the immobilizer to "Emergency Unlock" mode.

	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.
Зажигание											
Звуковой сигнал	через 20 сек.	10 сек.	1 раз		7 раз		9 раз		8 раз		3 раза

- Switch the immobilizer to "Programming" mode, then to "Device Registration" mode.

	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.
Зажигание					
Звуковой сигнал	3 раза	через 20 сек. 10 сек.	5 раз	через 20 сек. 10 сек.	7 раз

Device Registration Mode Entry for Immobilizer i95 LUX

1. Switch the immobilizer to "Emergency Unlock" mode and leave the ignition on.
2. Briefly press the button on the indicator module.

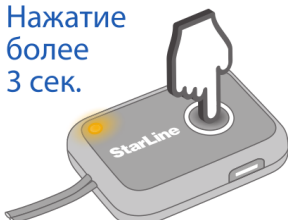
Короткое
нажатие



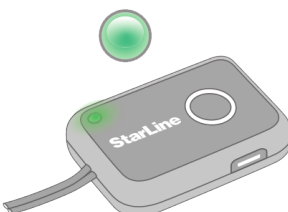
The LED will start flashing yellow.

3. Within the next 2 minutes, press and hold the button on the indicator module for more than 3 seconds until the LED goes out.

Нажатие
более
3 сек.



4. Release the button. Five short beeps will follow, with the green LED flashing.



The immobilizer will enter "Programming" mode.

5. Briefly press the button on the indicator module.

Короткое
нажатие



The LED will start flashing yellow.

6. Within the next 2 minutes, press and hold the button on the indicator module for more than 3 seconds until the LED goes out.

Нажатие
более
3 сек.



7. Release the button. Seven short beeps will follow, with the green LED flashing.
The immobilizer will enter "Device Registration" mode.

The immobilizer will remain in programming mode until the ignition is turned off.

Example of entering "Device Registration" mode using the unlock code 1798 for the i95 LUX immobilizer

1. Switch the immobilizer to "Emergency Unlock" mode using the current code—1798.

Нажатие кнопки модуля		  > 3 сек. 					
Световой сигнал	 до 2 мин.		 1 раз	 7 раз	 9 раз	 8 раз	 3 раза
Звуковой сигнал			 1 раз	 7 раз	 9 раз	 8 раз	 3 раза

2. Switch the immobilizer to "Programming" mode.

Нажатие кнопки модуля		 > 3 сек. 	
Световой сигнал		 мигания до 2 мин.	 5 раз
Звуковой сигнал			 5 раз

3. Switch the immobilizer to "Device Registration" mode.

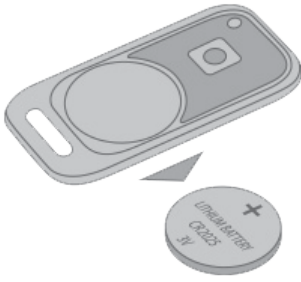
Нажатие кнопки модуля		 > 3 сек. 	
Световой сигнал		 мигания до 2 мин.	 7 раз
Звуковой сигнал			 7 раз

Tag Registration

Up to four tags can be registered in the immobilizer, and all tags can be inside the vehicle simultaneously.

To register tags after switching the immobilizer to "Device Registration" mode, perform the following steps:

1. Remove the battery from the tag.



2. Press and hold the button on the tag, then insert the battery back into the tag.



3. Keep the tag button pressed for at least three seconds, then release it.
4. Successful tag registration will be confirmed by green LED flashes. The number of flashes will correspond to the total number of registered tags. In case of a registration error (e.g., if the ignition is turned off before the sequence is complete), the LED will flash red.
5. Remove the battery from the tag and reinstall it to restart the tag.
6. Repeat steps 1-5 for all other tags to be registered.
7. Turn off the ignition to exit "Device Registration" mode.

All necessary tags must be registered sequentially within one programming cycle. Registering the first tag will automatically erase information about all previously registered tags, preventing the use of lost or stolen tags by unauthorized individuals. The immobilizer supports registration of up to 4 tags.

Indicator Module Registration

To register the indicator module after switching the immobilizer to "Device Registration" mode, perform the following steps:

1. Connect power to the indicator module.
2. Wait for the communication check to complete (10 seconds until the LED stops flashing).
3. Press and hold the button on the indicator module for at least 3 seconds, then release it.
4. Successful registration of the indicator module will be confirmed by a green LED flash. In case of a registration error (e.g., if the blocking module is not in registration mode), the LED will flash red.
5. Turn off the ignition to exit "Device Registration" mode.

The immobilizer supports only one indicator module.

Setup Recommendations

When visiting an installation center for the installation and configuration of the immobilizer, we recommend that you draw the installer's attention to the programmable options designed to provide additional comfort and security during the use of the device.

Below are the main parameters of the immobilizer available for configuration:

- **“Hands-Free” Mode (only for i95 and i95 LUX)** – Used for automatically locking and unlocking the car doors when the owner with the tag approaches or moves away from the stationary vehicle.
- **Universal Channel Connection Mode** – Determines the operating mode of the universal channel, which is intended for implementing one of the following options:
 - Engine lock when the tag is lost in anti-hijack mode after pressing the brake pedal;
 - Determining the status of door or hood limit switches;
 - Unlocking the central door lock by the touch sensor signal on the door handle in “Hands-Free” mode (only for i95 and i95 LUX);
 - Activating the brake lights to warn of the vehicle's impending stop before the blocking algorithm begins;
 - Indicating the locking and unlocking of doors using the parking lights.
- **Delay Before Blocking After Start of Movement** – Sets the delay duration before blocking activation after the start of movement in the absence of a tag signal:
 - No delay;
 - 5 seconds;
 - 10 seconds.
- **Intermittent Blocking Algorithm** – Allows simulating engine malfunction during blocking.
- **Sound Indication** – Enables or disables sound signals from the indicator module in the following cases:
 - Tag detection when the ignition is turned on;
 - Tag loss in normal mode;
 - Blocking warning;
 - Low battery indication of the tag.
- **Light Indication (only for i95 LUX)** – Enables or disables light signals from the indicator module in the following cases:
 - Tag detection when the ignition is turned on;
 - Blocking warning;
 - Indication of the current operating mode;
 - Low battery indication of the tag.

For detailed information on setting up the immobilizer, refer to the relevant sections of the installation instructions and the user manual.