





# Installation manual

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# 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		3 sound signals	Install new battery
Normal security mode		—	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		—	
Service mode		—	
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

# Delivery set

The differences between the kits and the delivery sets are presented in the table:

Nº	Component	i95 ECO	i95	i95 LUX
1	User manual	✓	✓	✓
2	Installation manual	✓	✓	✓
3	Plastic card	✓	✓	✓
4	Tag with battery, 2 pcs.	✓	✓	✓
5	Blocking module	✓	✓	✓
6	Buzzer	✓	✓	✗
7	Indication module	✗	✗	✓
Function		i95 ECO	i95	i95 LUX
Central lock control ("Hands free" mode)		✗	✓	✓
Tag authorization output (status output)		✗	✓	✓





# 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	<ul style="list-style-type: none"><li>• 6.6 (i95, i95 LUX)</li><li>• 2.4 (i95 ECO)</li></ul>
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

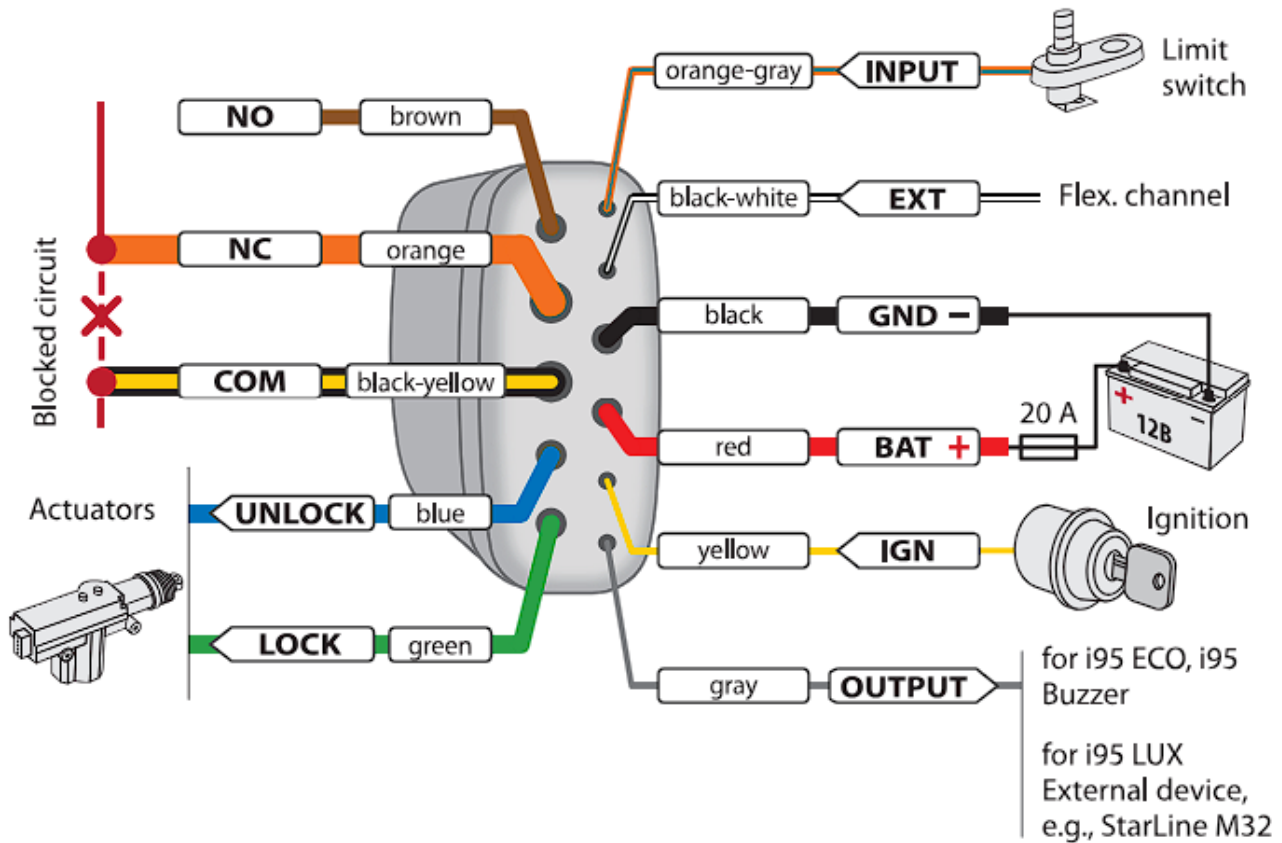
(\*) — depends on location of the immobilizer components

# 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

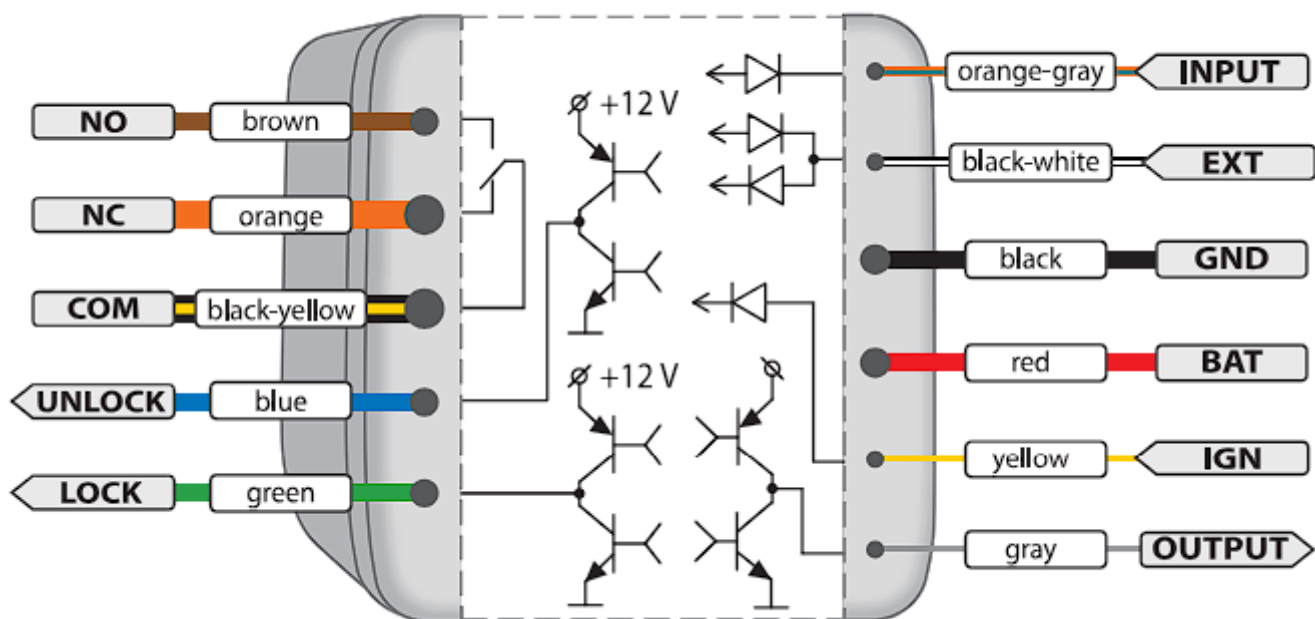
(\*) — depends on location of the immobilizer components

# Connection diagram



The device is supplied with text and color markings

## Diagram of external outputs



## Designation of external outputs

All blocking module wires are marked white.

Marking	Designation
GND	Ground (-)
BAT	Power supply (+)
IGN	Ignition
NO	Normally open relay contact
NC	Normally closed relay contact
COM	Common relay contact
UNLOCK	Opening the door lock (or hood lock)
LOCK	Closing the door lock (or hood lock)
INPUT	Input the door (or hood) limit switch
OUTPUT	i95 ECO, i95 - buzzer output i95 LUX - status output
EXT	Flexible channel

# General Installation Requirements

- The StarLine i95 ECO, i95, and i95 LUX immobilizers are designed for installation on vehicles and motorcycles with a 12V electrical system.
- Before installing the immobilizer, ensure the vehicle's electrical circuits are functioning correctly and that there are no error indications from the vehicle's standard equipment on the dashboard (e.g., "Check Engine," "Airbag," etc.).
- Install the immobilizer in accordance with the installation diagram.
- Route the wires as far as possible from sources of electrical interference, such as ignition coils, high-voltage wires, etc. Ensure that the wires do not come into contact with moving parts of the vehicle's structure, such as pedals, steering rods, etc.

Before beginning the installation, familiarize yourself with the operation principles and functional capabilities of the immobilizer as described in the User Manual.

After installing the immobilizer, complete the Installation Sheet in the Installation Instructions.

The tags included with the immobilizer are initially in transport mode, which means they are deactivated! Pressing the tag button in this mode will be indicated by green and red flashes of the built-in LED. Before use, press the tag button several times until the flash color changes to green.

## Placement Recommendations

Place the blocking module discreetly in locations that are not accessible without partially disassembling elements of the body, engine, or interior. The blocking module can be placed either in the vehicle interior or in the engine compartment (under the hood), with precautions related to allowable temperature, environmental aggressiveness, and humidity.

To avoid interference with the radio channel, it is recommended to install the module as far as possible from metal parts of the vehicle, or to ensure a gap of a few centimeters from solid metal surfaces.

In shielding conditions, check the operating range of the radio channel. For the immobilizer to function properly, stable signal reception between the blocking module and the tag located at the driver's position is sufficient.

### **195, 195 LUX**

When using the "Hands-Free" mode (a programmable parameter), set the proximity threshold according to the desired door lock control range.

The blocking module can be installed in the vehicle's standard wiring harnesses for concealed placement. The harness must be stationary relative to the vehicle body.

Secure the module firmly to prevent false triggering of the motion sensor.



# Immobilizer Connection

## Power Connection

The GND wire of the blocking module must be connected to the vehicle body or a conductor reliably connected to the body. This wire should be connected first during installation.

Ensure the module receives power via the BAT terminal, and this power should not be interrupted under any circumstances. Ignoring this requirement can lead to immobilizer malfunctions, such as unintended activation of the anti-theft function, which can cause sudden changes in engine performance. The IGN wire must have a +12V potential when the ignition is on and the engine is running.

When connecting the BAT wire, remember that the maximum current consumption can reach 30A (during the pulse control of the locks).

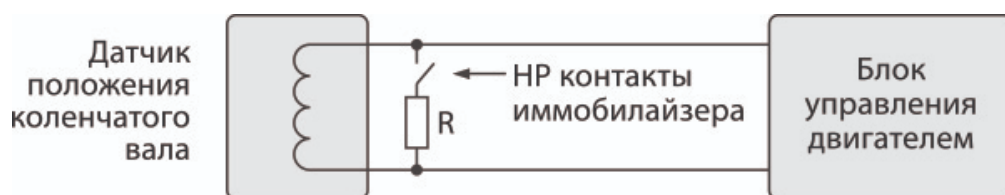
## Engine blocking circuit connection

**NO**, **NC** and **COM** wires are connected to the circuit that needs to be blocked.

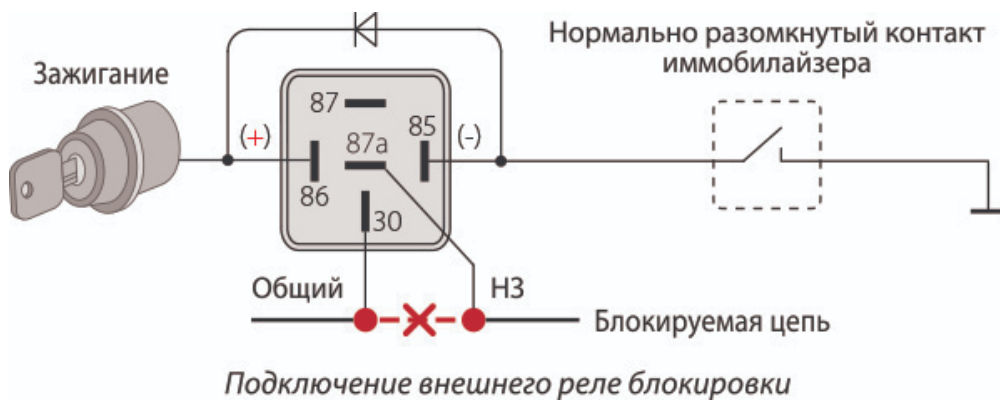
Both normally closed (COM and NC) and normally open (COM and NO) contacts can be used for blocking.

The relay activates only at the moment of engine blocking. Turning off the ignition does not trigger the relay.

The switching current should not exceed 10A continuously and no more than 20A for up to 1 minute (when switching circuits without an inductive load component). The size of the blocking module allows it to be installed close to the blocking point. Monitor the length and cross-section of the wires used for switching, as the switched current can be significant. If the current in the blocked circuit exceeds 10A, use an additional external relay.

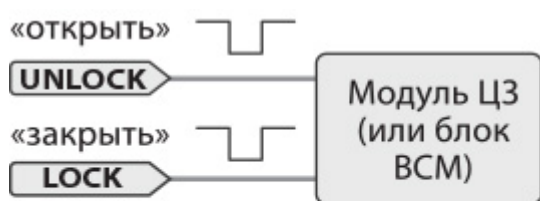


*Пример использования НО контактов для блокировки*

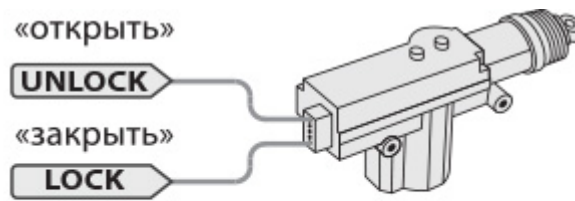


## Lock Control Output Connection

**UNLOCK** and **LOCK** outputs are for controlling the hood lock or central door lock. They are designed with a power circuit (maximum output current 20A), so additional power modules are not required for lock control. Lock control can be implemented either through two-wire drive systems or by direct connection to the central locking system with negative control.



Управление центральным замком дверей



Управление замком капота

Connect the INPUT wire to the corresponding limit switch to allow the system to monitor the status of the doors or hood. If the door or hood is open, the lock will not be engaged. This wire should have a ground (-) when the hood (or doors) is open.

Lock control method		Output	"Open" pulse	"Close" pulse
Control of hood (disabled "Hands free" mode)	Two-wire locking system actuators	<b>UNLOCK</b>	+	-
		<b>LOCK</b>	-	+
Control of doors (enabled "Hands free" mode) only for i95 LUX, i95	Central locking system with negative control	<b>UNLOCK</b>	-	break
		<b>LOCK</b>	break	-
	Two-wire locking system actuators	<b>UNLOCK</b>	+	-

LOCK	-	+
------	---	---

Before connecting the power outputs for the lock, choose the appropriate control scheme.

### **i95, i95 LUX**

When connecting the immobilizer control outputs directly to the central door lock control unit, you must choose a central locking system with negative control. Failure to follow this rule can damage the equipment.

After connecting, be sure to check the locking and unlocking algorithm of the central locking system (CLS) with both the immobilizer and the vehicle key. In rare cases, incorrect CLS operation may occur due to the specific features of the vehicle's standard circuits. In such cases, use an additional external relay with dry contacts to connect to the CLS control inputs.

If a malfunction occurs in the lock control circuit (e.g., short circuit or overheating) when a pulse is issued to lock or unlock, there will be 2 short beeps. Fix the malfunction before using the system.

## Connecting the buzzer (i95 ECO, i95)

Connect the OUTPUT wire to the negative (-) terminal of the buzzer, and the positive (+) terminal to the BAT wire of the blocking module (+12V circuit). A LED can be connected in parallel to the buzzer through a resistor with a resistance of 1-2 kΩ.

Place the buzzer so its signals are clearly audible from the driver's seat.

**WARNING:** Do not place the buzzer close to the blocking module, as this can trigger the motion sensor when sound signals are emitted.

## Connecting the status output (i95 LUX)

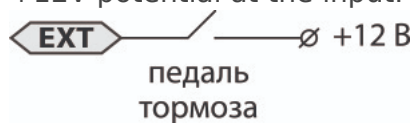
The "status" OUTPUT allows the immobilizer to work with external devices (alarm system, monitoring system, etc.) to monitor the presence of the vehicle owner. The output works as follows:

- High-impedance state (open circuit) if the tag is distant or absent (signal level of the tag is below the set proximity threshold).
- Low potential (-) if the tag is near the vehicle (signal level of the tag exceeds the set proximity threshold).

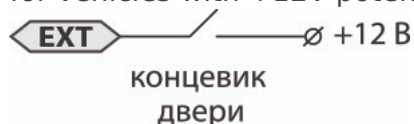
## Connecting the Flexible Channel

The flexible channel (EXT) can be connected to one of the following inputs (outputs):

- **Positive Brake Pedal Input:** Used to implement brake pedal interrogation before starting the anti-hijack algorithm. Pressing the brake pedal is detected by the presence of +12V potential at the input.



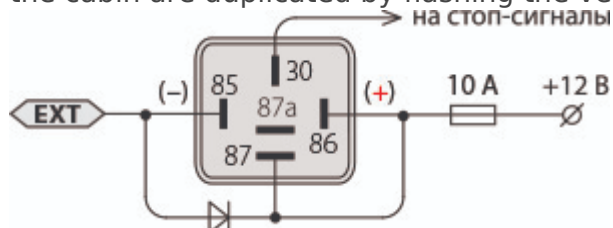
- **Positive Limit Switch Input:** Used to determine the status of the doors or hood. This is for vehicles with +12V potential at the limit switch when the hood (doors) are open.



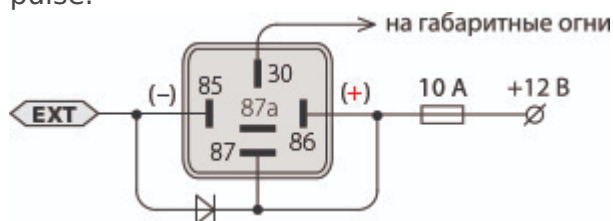
- **Negative Touch Sensor Input (i95, i95 LUX):** Connects to a touch sensor (installed separately). In "Hands-Free" mode, if the tag is in the blocking module's action zone, the central lock will only unlock with a signal from the touch sensor. The door will lock with a long touch on the sensor (more than 3 seconds) or when the tag moves away.



- **Brake Light Output:** Low-current (400 mA) negative output. Used to alert others of an impending vehicle stop before starting the engine blocking algorithm. Warning signals in the cabin are duplicated by flashing the vehicle's brake lights.



- **Parking Light Output:** Low-current (400 mA) negative output. Used for light indication of automatic lock and unlock. One signal is sent to the parking lights when issuing the "lock" pulse. Two signals are sent to the parking lights simultaneously with the "unlock" pulse.



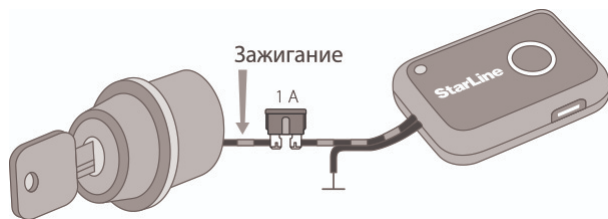
- **Status Output:** Used as the default channel setting. Designed to monitor the presence of the tag near the vehicle. The output operation algorithm fully corresponds to the description in the "Connecting the Status Output" section. For the i95 ECO immobilizer, the status output works only when the ignition is on.



Before connecting the EXT wire, configure the channel according to the chosen connection method.

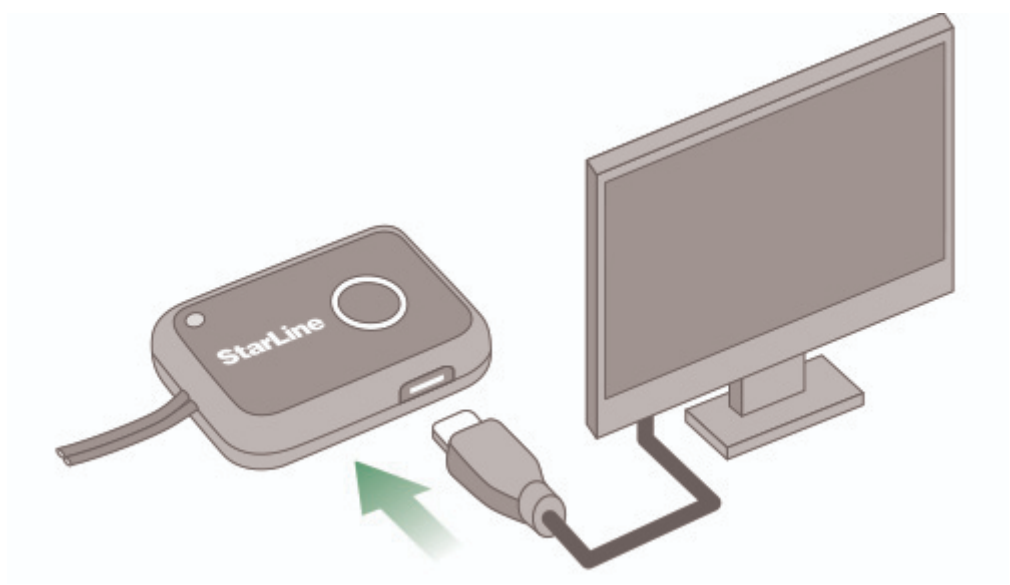
To attach the indicator module, use the double-sided tape included in the kit. If necessary, the power cord can be hidden in the cutout at the bottom of the indicator module housing.

## Connecting the Indicator Module



1. Use the double-sided tape included in the kit to attach the indicator module to the selected surface.
2. Ensure Ignition is Off.
3. Connect the black wire of the blocking module to the vehicle's ground.
4. Connect the black wire with a gray stripe to the standard wire that has +12V only when the ignition is on. The voltage should not disappear when the starter is engaged.

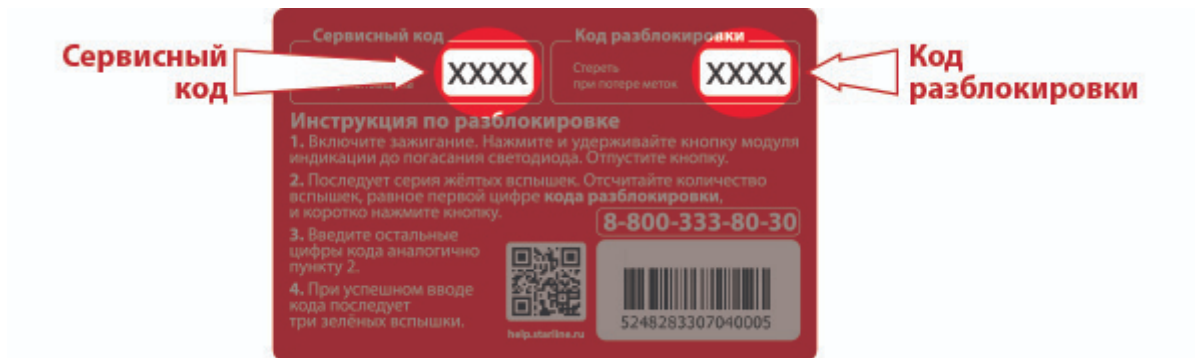
# Telematic setting of the immobilizer



For quick and convenient setting of immobilizer parameters on a computer, download the special application [«StarLine Master»](#). Detailed information about configuring the immobilizer using the desktop application can be found in the manual in the "Help" section of the application.

# Programming Parameters with the Tag

The programming mode is intended for configuring the parameters of the immobilizer.



Switching to programming mode from security mode requires entering the service code.

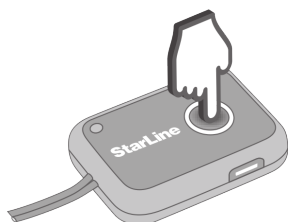
Switching to programming mode from service mode is not possible (indicated by yellow light).

For the i95 LUX immobilizer, enter programming mode using the indicator module. For the i95 ECO and i95 immobilizers, enter using the ignition key.

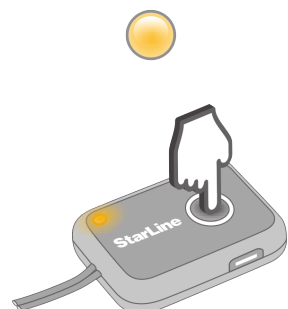
When entering programming mode using the service code, the option to change the unlock code will be unavailable.

## Entering Programming Mode with the Service Code for i95 LUX

1. Turn on the ignition. Press and hold the indicator module button for more than 3 seconds until the LED goes off. Release the button.

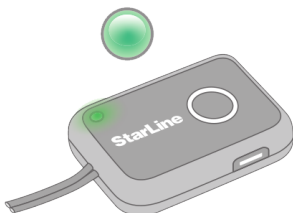


2. Yellow flashes will follow, accompanied by beeps. Count the number of flashes equal to the first digit of the service code and briefly press the indicator module button. The first digit is entered.



3. Enter the remaining digits of the service code in the same manner as step 2.

4. If the service code is entered correctly, there will be 5 short beeps, and the system will enter programming mode. After a few seconds, the tag's LED will start flashing green every three seconds, waiting for parameter input.



If the service code is entered incorrectly, there will be 2 short beeps. If the code is entered incorrectly 5 times within 30 minutes, the entry procedure will be blocked for 15 minutes. The block will be removed when the tag is detected.

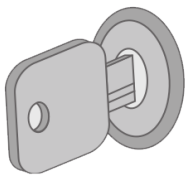
Example of entering the service code — 9567.

Нажатие кнопки модуля								
Световой сигнал	до 2 мин.			9 раз	5 раз	6 раз	7 раз	5 раз
Звуковой сигнал				9 раз	5 раз	6 раз	7 раз	5 раз

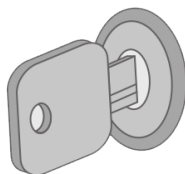
The immobilizer will remain in programming mode until the ignition is turned off.

# Entering Programming Mode with the Service Code for i95 ECO, i95

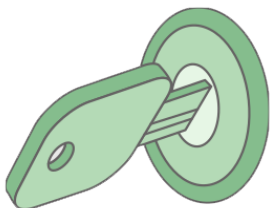
1. Remove all tags from the immobilizer's range (or remove their batteries).
2. Turn on the ignition. Wait for the sound signal to start and then turn off the ignition.



3. Turn on the ignition again; a series of beeps will follow. Count the number of beeps equal to the first digit of the service code and turn off the ignition.



4. Enter the remaining digits of the service code in the same manner as step 3.
5. Turn on the ignition. If the service code is entered correctly, there will be 5 short beeps, and the system will enter programming mode.



If the service code is entered incorrectly, there will be 1 long beep. If the code is entered incorrectly 5 times within 30 minutes, the entry procedure will be blocked for 15 minutes. The block will be removed when the tag is detected.

6. Insert the battery into the tag. After a few seconds, the tag's LED will start flashing green every three seconds, waiting for parameter input.



Example of entering the service code — 9567.

	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.	Выкл.	Вкл.		
Зажигание													
Звуковой сигнал	через 20 сек.		10 сек.		9 раз		5 раз		6 раз		7 раз		5 раз

The immobilizer will remain in programming mode until the ignition is turned off. Turning the ignition off and then back on will return the immobilizer to security mode.

## Parameter Programming Table

When programming the immobilizer, you can refer to the following reference table. The number in the "Parameter" column corresponds to the number of times the tag button is pressed while the LED is green. The number in the "Value" column corresponds to the number of times the button is pressed while the LED is red.

### Example of Setting a Parameter from the Programming Table

To set the low sensitivity level of the motion sensor, put the immobilizer into parameter programming mode. Then follow these steps:

1. Ensure that the tag's LED is flashing green every three seconds.



2. Press the tag button 9 times in succession while the LED is green. After the green LED stops flashing, there will be 9 short green flashes (corresponding to the number of presses). The LED will then change to red.



3. Press the tag button 3 times while the LED is red. After the red LED stops flashing, there will be a series of red flashes corresponding to the number of presses.



4. Successful setting of the low sensitivity level for the motion sensor will be confirmed by three beeps.

Parameter	Value	Description	Note
1	Change of unlocking code		Available only when entering programming mode using an unlock code. It allows changing the 4-digit unlocking code, necessary for system switchover to the emergency unlocking mode
	1...9, 1...9, 1...9, 1...9	Digits of new unlocking code	
2	Option of tag coverage range testing		Activates the option of tag coverage range testing
	1	Option activation	

3	Not used		
4	Blocking during driving		Allows engine blocking after driving start
	1	On (default)	
	2	Off	
5	Hands-Free mode		<p>Allows for switchover between automatic control of the central door lock and the hood lock.</p> <p>*Only for immobilizer i95 LUX, i95</p>
	1*	Off, hood lock control according to tag's presence. Two-wire drives to actuator	
	2	Off, hood lock control according to ignition state. Two-wire drives to actuator (default)	
	3*	On, door lock control. Central locking system with negative control	
	4*	On, door lock control. Two-wire drives to actuator	

5	Door lock control off	
6	Door lock control	
	1	No additional options (default)
	2*	Unlocking only
	3*	Additional locking at movement start, unlocking according to ignition switch-of
Allows for selecting additional door lock control capabilities (used only together with Hands-Free mode). More detailed description is given in section “Door lock control” of User Manual. *Only for immobilizer i95 LUX, i95		
7	Tag coverage range	
	1	Close range
	2	Medium range (default)
	3	Far range
Allows to adjust the tag range for lock control		
8	Connection of the flexible channel	
	1	Brake pedal
	2	Limit switch
	3*	Door handle sensor
	4	Stop lights
	5	Parking lights
Determines the operation algorithm of the flexible channel depending on the selected connection method. *Only for immobilizer i95 LUX, i95. **The status output for immobilizer i95 ECO operates only with the ignition switched on		

6**	Status output (default)		
9	Movement sensor sensitivity		Allows to adjust movement sensor activation sensitivity
	1	High level	
	2	Medium level (default)	
	3	Low level	
10	Delay before blocking after driving start		Allows for selecting the required duration of delay before blocking after driving start (in case of tag absence after ignition switch-on)
	1	none (default)	
	2	5 seconds	
	3	10 seconds	
11	Delay before blocking in the Antihijack mode		Allows for selecting the necessary delay duration after tag moving away (during driving) prior to blocking in the Antihijack mode
	1	40 seconds (default)	
	2	60 seconds	
	3	120 seconds	
12	Intermittent blocking algorithm		Allows and prohibits simulation of engine failure at blocking
	1	On	
	2	Off (default)	
13	Common sound indication		Allows and prohibits all sound signals, except the warning signals in additional modes

1	On (default)		
2	Off		
14*	Common light indication		Allows and prohibits light indication of tag detection and warning about upcoming blocking. *Only for immobilizer i95 LUX
	1	On (default)	
	2	Off	
15	Tag detection signal		Allows and prohibits the signal of tag detection after ignition switch-on
	1	On (default)	
	2	Off	
16	Signals of tag loss in the normal mode		Allows and prohibits the signals in case of tag loss in the normal mode
	1	On (default)	
	2	Off	
17	Factory reset		Resets to default all programming table parameters
	1	Return to default settings	
18	Delay prior to activate the motion sensor (after engine start)		Sets the necessary delay after remote engine start
	1	5 seconds (default)	
	2	30 seconds	
	3	60 seconds	
19	Inversion of the “status output” of tag presence		Allows setting the active level of the status output of tag presence (EXT). By default the output is “ground” if the tag is near. “Ground” can be set when the tag is outside the coverage range.

1	On	
2	Off (default)	
20	Radio channel selection	
	1...11	Channel number
Allows to select a radio channel for dialogue exchange, which does not interfere with the standard equipment of the car.		

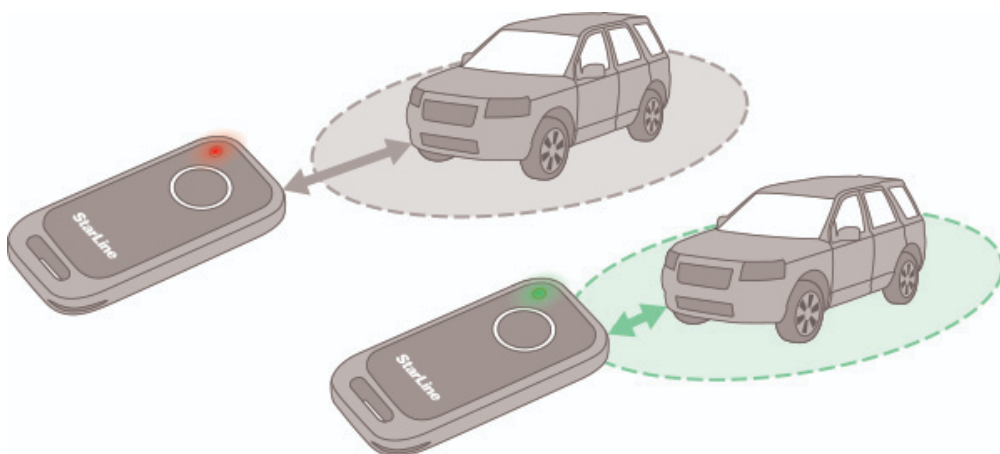
## Testing of coverage range

This option allows you to check the stability of the connection between the tag and the blocking module.

During the range and stability testing, a two-way radio exchange occurs every half second between the tag and the blocking module, indicated by a LED flash. A green flash corresponds to a successful exchange, while a red flash indicates a failed exchange. The testing session lasts for 10 minutes. After this period, the system will automatically return to the armed mode.

If the tag loses connection for more than three minutes, it will stop flashing until a successful exchange with the blocking module is established.

Stable connection is essential for the safe operation of the immobilizer and does not depend on the set lock control threshold.



## Blocking While Driving

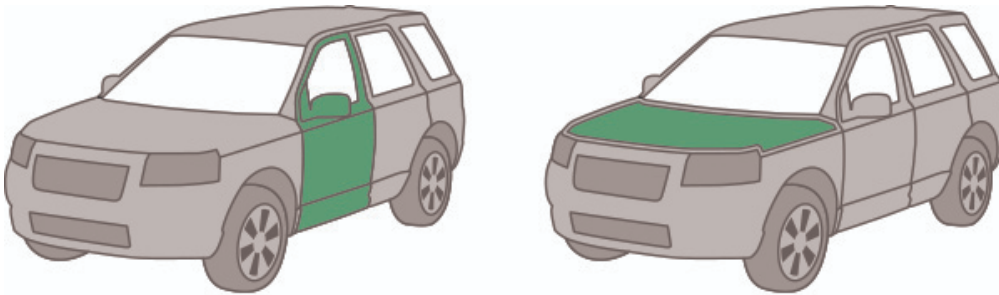
The immobilizer can block the engine at the start of movement. This allows the immobilizer to be used with remote engine start systems. If blocking while driving is disabled, the engine will be blocked when the ignition is turned on.

## Hands-Free Mode Setup

## i95, i95 LUX

Central lock control is only available for the i95 and i95 LUX immobilizers.

### Door Lock or Hood Lock Control



The immobilizer has outputs for controlling the central door lock or the hood lock. Using the hands-free mode allows you to remotely control the central door lock as the tag approaches and moves away from the vehicle. For more details, see the "Door Lock Control" section in the User Manual.

The central lock control algorithm differs from the hood lock control. When setting up the immobilizer, you can choose one of these modes.

The system provides two ways to control the central door lock. If the pulse to open and close the lock is sent directly to the central lock, you need to use the control scheme for the central locking system with negative control. If the power contacts of the blocking module are connected to the door lock actuators, you should switch the system to control the two-wire drive of the locking system.

If the immobilizer's control outputs are directly connected to the central door lock, be sure to set up the control scheme for the central locking system with negative control. Failure to comply with this rule may result in equipment failure.

If a malfunction occurs in the actuator power circuit (e.g., short-circuit wires or overheating), two short beeps will sound when trying to send a pulse to open or close the lock.

### Additional Door Lock Control (i95, i95 LUX)

The system provides additional door lock control in the hands-free mode. For more details, see the "Door Lock Control" section in the User Manual.

### Setting the Tag Coverage Range

Distance between the tag and blocking module, at which the "open" pulse is issued, is set by three-level setting of coverage range (small, medium, large distance).

Distance and stability of tag communication with the blocking module is affected by many factors: interference, all kinds of obstacles etc. Bear it in mind that the actual coverage range depends on tag location: if it is in the rear pocket or under thick clothes, coverage range is reduced. Moreover, the given distance is determined by the method of blocking module mounting in the underhood space – the deeper the device, the more difficult it is to find it, but the smaller the actual coverage range.

The maximum coverage range of the tag for the Hands-free mode is within 10 meters.

When the immobilizer is mounted in the passenger compartment, tag coverage range should be set to a small distance. In case of mounting in the underhood space – to a medium or large one.

## Flexible Channel Setting

The EXT flexible channel can be connected to one of the following inputs (outputs):

- **Positive brake pedal input.** In antihijack mode, engine blocking will begin when the brake pedal is pressed, providing additional safety when stopping. If the brake pedal is not pressed, engine blocking will start after the doubled time interval set during the immobilizer parameter programming. Brake pedal pressing is detected by the appearance of a +12V potential at the input.
- **Positive end switch input.** Used to determine the state of the doors or hood for vehicles with positive end switches. When the doors or hood are open, a +12V potential is detected at the end switch.
- **Negative touch sensor input (i95, i95 LUX).** In hands-free mode, if the tag is within the blocking module's range, the central door lock will be unlocked only by the touch sensor signal (installed additionally). The door will lock after prolonged exposure to the sensor (more than 3 seconds) or as the tag moves away.
- **Stop signal output.** Low current (400 mA) negative output. Used to warn others of the vehicle's impending stop before initiating the engine blocking algorithm. Warning signals in the cabin are duplicated by the car's stop lights flashing.
- **Parking light output.** Low current (400 mA) negative output. Designed for light indication of automatic lock unlocking and locking. At the moment the "lock" pulse is issued, one signal is sent to the parking lights. Simultaneously with the "unlock" pulse, two signals are sent to the parking lights.
- **Status output.** Designed to monitor the presence of the tag near the vehicle. Used as the default channel setting.

## Engine blocking setting

### Movement Sensor Sensitivity

The initiation of the engine blocking algorithm depends on the three-level threshold adjustment of the movement sensor:

- **High level:** Reacts to movement initiation with a displacement of less than 10 meters in 10 seconds; generally triggers at speeds over 5 km/h with slow acceleration.
- **Medium level:** Reacts to movement initiation with a displacement of 10 to 20 meters in 10 seconds; generally triggers at speeds over 10 km/h with slow acceleration.
- **Low level:** Reacts to movement initiation with a displacement of more than 20 meters in 10 seconds; generally triggers at speeds over 30 km/h with slow acceleration.

## Delay Before Activation of Engine Blocking After Movement Starts

The interval between the start of movement and the activation of engine blocking (10 or 5 seconds, as well as zero interval) is chosen based on the time required to reach the road where the hijacker can no longer discreetly attempt to disable the immobilizer. This delay can also be used for the safe activation of engine blocking after it starts.

## Delay Before Activation of Engine Blocking in Antihijack Mode

The interval between the start of movement and the activation of engine blocking in antihijack mode (40, 60, or 120 seconds) is chosen based on the time required for the hijacker to drive away from the scene of the robbery.

## Engine Blocking Algorithm

If the connection between the tag and the blocking module is not established at the time of vehicle movement, and the emergency unlocking procedure is not performed, the system will initiate engine blocking. The engine blocking procedure includes the possibility of simulating engine malfunction—the blocked circuit is periodically interrupted and restored according to the following algorithm:

Blocking stages	Block	Pause	Block	Pause	Block	Pause	Block
Duration, seconds	2	2	3	2	5	2	20

If the vehicle starts moving after the end of the blocking cycle, the blocking will be activated again for 20 seconds. If the blocking is triggered 3 times, the engine will remain blocked until the tag is detected.

## Light and sound alarm setting

### Common sound indication

It is possible to deactivate all the sound alarm signals, except the confirmation signals in additional modes

## Common light indication

It is possible to deactivate the light indication of tag detection and warning about upcoming blocking

## Tag detection signal

Tag detection by the immobilizer is accompanied with sound and light signals.

## Signals of tag loss in the normal mode

Tag loss by the immobilizer is accompanied with sound signals. These signals allow for tag detection, for instance, if you forgot it in the garage.

## Factory Reset

Resetting the settings will change all parameters in the programming table (except for the unlocking code) to their default values. All registered devices will remain in the system.

The factory reset procedure does not change the set unlocking code value.

## Delay Before Activation of Movement Sensor (After Engine Start)

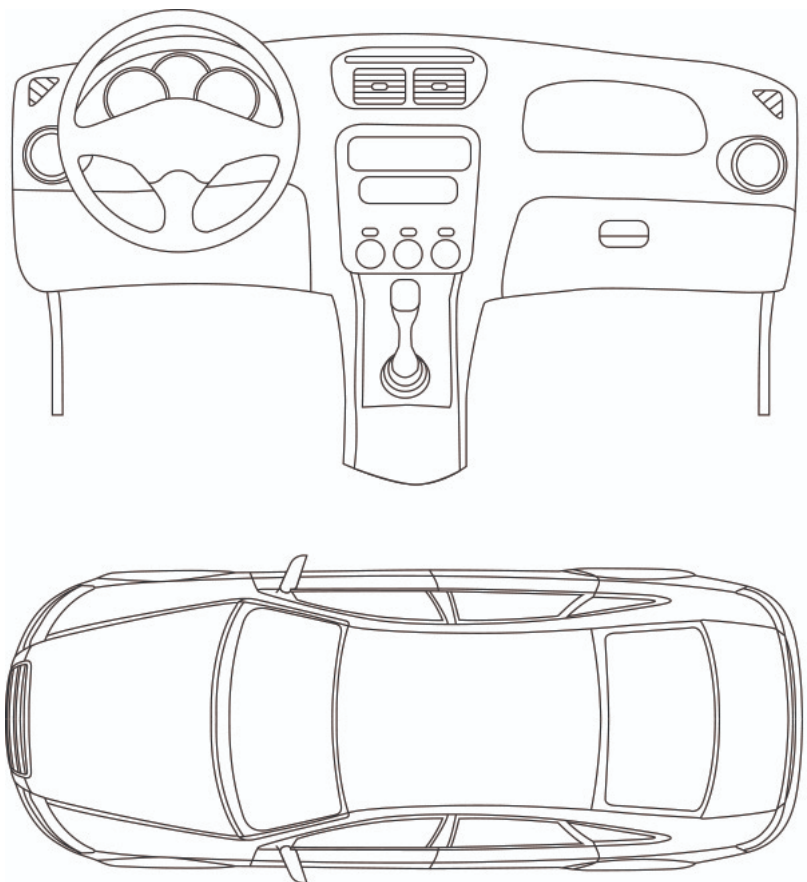
This setting is recommended for strong vibrations after remote engine start. It helps to avoid triggering the movement sensor in such cases. The set interval (5, 30, 60 seconds) is counted from the moment the ignition is turned on.

# Registration of new devices

To prevent unauthorized tag registration, entry in the device registration mode is possible only after entry of the **unlocking code**. For registration of new components the immobilizer should be set to **the device registration mode** using the unlocking code. The procedure of new device registration is described in the corresponding section of the User Manual.

If the car owner has told you the unlocking code, ask him/her to change it for a new one after completion of new device registration.

# Installation sheet



1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

Installation date: \_\_\_\_\_

Service code: \_\_\_\_\_