

510, 520

INTELLECTUAL

t h e f t p r e v e n t i o n

S Y S T E M

PRIZRAK

USER MANUAL





Please make sure that PUK code protection layer is intact

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Master Definitions

What is PIN code?

PIN code is a secret combination of original vehicle button(s) pressings.
PIN code needs to be entered prior to vehicle movement.

What is the Prizrak button?

Prizrak button is one or several original vehicle buttons used for entering the PIN code.

What is the Programming button?

Programming button is the original vehicle button assigned by installation specialist for theft prevention system programming (setting).

What is Immobilizer feature?

Immobilizer feature is a protective function that prevents vehicle from movement.

What is Anti HiJack feature?

Anti HiJack feature is hijacking protection function that locks the engine should the vehicle be hijacked while the owner is securely away from the vehicle.

Seven advises or fast facts
see the last page



Prizrak intellectual theft prevention system (hereinafter referred to as the Immobilizer) is designed for vehicle theft prevention should such an incident occur while the vehicle is parked or should hijacking be the case. Besides, the Immobilizer is equipped with additional service features: automatic window closing, hood electro-mechanical lock control and vehicle central lock control.

The Immobilizer is to be installed only in the certified service center in accordance with the Technical Specification that can be found on the CD,

This present User manual applies for Prizrak-51x and Prizrak-52x Immobilizers where x is the kit option ID.

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Prizrak button and Programming button

- ◇ **Prizrak button** is one or several original vehicle buttons used for entering the PIN code. You can change Prizrak button voluntarily. Please consult with your installation specialist on the list of available buttons.
- ◇ **Programming button** is one of original vehicle buttons assigned by installation specialist for Immobilizer programming.



Prizrak and Programming buttons may match

Vehicle buttons used as Prizrak button or Programming button will continue performing their original functions. For example, if the window lifting button is used, window regulator will be activated. You should not be concerned that multiple use of the button may cause the button or its function to be lost. Mechanisms and feeds of modern vehicles are equipped with secure protection systems.

PIN and PUK codes

PIN code

PIN code is a secret combination of original vehicle button(s) pressings. PIN code needs to be entered prior to vehicle movement.

PIN code is a one-, two-, three- or four-digit number. Each digit is a figure from 1 to 9.

PIN code can be promptly changed numerous times by both technical specialists during Immobilizer installation or by you during day-to-day vehicle use.

Upon Immobilizer installation the factory-set PIN code is to be changed for the purposes of providing the proper secrecy level. If the PIN code is not changed, a beep tone will be activated after factory-set PIN code entering in order to remind the necessity of PIN code changing.

PUK code

PUK code completely replaces the PIN code but cannot be changed during operation. PUK code is under the protective layer on the plastic card. PUK code entering is carried out by Programming button with 2-second pause after each digit.



Please use the PUK code only in case if you forgot or lost the PIN code. Upon successful PUK code entering you will be able to program a new PIN code.

PIN code entering


PIN code is entered with vehicle ignition and engine on by steadily pressing the Prizrak button. When entering one of the PIN digits, please make sure that pressure or pause duration is no longer than 1 second.

Please keep the pause of approximately 2 seconds in between the digits. If you made a mistake while entering the PIN code, please wait for longer than 3 seconds and re-enter the PIN code.

PIN code entering sequence

- ◇ Turn the ignition and engine on Enter the PIN code
- ◇ Wait for audible confirmation trill

Possible PIN code options

 - buttons are used as an example. Please counsel with your installation specialist for the list of available buttons.

Single-button PIN code entering

One-digit PIN code:



Two-digit PIN code:



Multiple buttons PIN code entering

When entering the PIN code you need to keep in mind the button pressing sequence.

One-digit PIN code:



Two-digit PIN code:



Immobilizer feature

Immobilizer feature is designed for preventing the vehicle from being stolen from its parking area. You need to enter the PIN code each time prior to driving otherwise the engine will be locked.

There are 2 different lock responses:

- ◇ The engine will be turned off right after the vehicle starts moving if the Speed control* is on.
- ◇ The engine will be turned off within 5 seconds after the ignition has been turned on if the Speed control is off.

Anti HiJack feature

Anti HiJack is the function that prevents the vehicle from being hijacked or stolen from its parking area. Should there be an attempt to hijack the vehicle; the Immobilizer will lock the engine while you are safely away from the vehicle.

There are 2 different lock response algorithms:

- ◇ The engine will be turned off at a set distance covered by the vehicle from the moment when the ignition has been turned on and driver door was opened if the Speed control* is on.

You do not need to enter the PIN code again if the ignition has been off for less than 30 seconds.



You can turn the engine on prior to entering the PIN code. But the driving can be begun only upon successfully entering the PIN code after the PIN confirmation audible tone has been sounded.

- ◇ The engine will be turned off upon a set time interval after a certain number of brake pedal pressings if the Speed control is off.

The availability of these algorithms depends on the vehicle model features and Immobilizer program settings. The distance covered or time interval length and number of brake pedal pressings can be set by you in the Immobilizer settings. The distance can be set within 100 – 1000 meters range; time interval length can be set within 20 seconds – 3 minutes and 20 seconds; brake pedal pressings number can be set in 1 to 7 range.

PIN code is to be entered when the ignition has been off for longer than 30 seconds or after the driver's door had been opened.

* In some rare cases this feature is not supported depending on the vehicle make and model.



You can enter the PIN code when driving if the engine had not been locked prior to that.

If the PIN code is not entered, Anti HiJack will respond by activating the locking mode. Prior to engine locking a sound alarm indicating the necessity of PIN code

Maintenance mode

Maintenance mode is an operation mode when all theft prevention and service functions of Immobilizer are temporarily deactivated.

When the ignition is turned on in Maintenance mode, an audible tone is sounded that reminds you on the fact that the Immobilizer is in maintenance mode. The audible tone can be turned off for secrecy level increase.



Maintenance mode audible notification is to inform you that you need to deactivate the Maintenance mode when your car is out of the maintenance.

entering will be activated. In order to prevent accidents and warning the other vehicle owners, vehicle's hazard lights will be activated 10 seconds prior to engine locking.

Upon engine locking the hazard lights will remain on for 15 seconds or until the ignition is on.

The locking mode can be stopped at any moment by entering the PIN code.

In order to activate or deactivate the Maintenance mode you need to do the following:

- 1 Turn the ignition on Enter the PIN code and wait for confirmation
- 2 Press the Programming mode 6 times (start doing it no later than 10 seconds after PIN code entering).

Please wait for confirmation that you have successfully performed the actions:

- ◇ 1 audible signal and 1 sound trill mean that the Maintenance mode is ON.
- ◇ 2 audible signals and 1 sound trill mean that the Maintenance mode is OFF.

Additional features

The Immobilizer has additional features improving the vehicle security level.

Automatic windows closing

The Immobilizer can be programmed so that the vehicle's windows are closed when the vehicle is locked

Hood electro-mechanic locks control

The Immobilizer allows closing an accessory hood lock in time with vehicle locking and opening the hood lock when the PIN code has been entered.

Central lock control

If your vehicle is not equipped with the following functions:

- ◇ Doors locking during driving
- ◇ Doors unlocking upon turning the ignition off They can be carried out by the Immobilizer

Changing the Immobilizer settings

When programming, please refer to Table 1 and its annotations

- 1 Turn the ignition on Enter the PIN code and wait for confirmation
- 2 Activate the Immobilizer setting mode by pressing and releasing the programming button 12 times (start doing this not later than 10 seconds after the PIN code has been entered). If you have performed all the actions correctly, the Immobilizer will notify you by 4 audible signals.
- 3 Select the menu option by pressing and releasing the Programming button as many times as it corresponds with the menu option number. The Immobilizer will notify you on the menu option number by series of audible signals.
- 4 Go to menu option setting by pressing and holding the brake pedal. The Immobilizer will inform you on the option setting by series of audible signals. Please note that their length will be changed during this process.
- 5 In order to change the option setting, please press and release the Programming button as many times as it is necessary to change the current setting to the required one. When changing the option setting please note that the last setting is followed by the first setting.
- 6 Release the brake pedal. Now you can go to programming of another menu option or exit the setting mode.
- 7 In order to start programming another menu option press and release the Programming button as many times as it is needed to navigate the menu to the required option. For example, in order to go from Option No. 2 (Anti HiJack feature) to Option No. 6 (Sound confirmation of PIN code entering) press and release the Programming button 4 times.

You can stop programming and exit the setting mode anytime by turning the ignition off. If no actions are taken within 60 seconds and the brake pedal has not been pressed, the Immobilizer will automatically exit the setting mode. When the mode is no longer on, an audible trill will be sounded.

Table 1. Immobilizer settings (Menu 2)

No.	Description	Current option setting *			
		Factory default settings	On	Off	Range
1	Immobilizer feature	On	1	2	—
2	Anti HiJack feature	On	1	2	—
3	Speed control	On	1	2	—
4	Number of brake pedal pressings	3	—	—	From 1 to 7
5	Anti HiJack feature response delay	1	—	—	From 1 to 10
6	PIN code entering audio confirmation	On	1	2	—
7	Maintenance mode audio indication	On	1	2	—
8	Central locking when driving	Off	1	2	—
9	Central lock unlocking when ignition is turned off	Off	1	2	—
10	Automatic windows closing	On	1	2	—

* – number of audio signals is indicated.

Annotations to Table 1

p. 1 "Immobilizer feature" allows turning the Immobilizer feature on or off.

p. 2 "Anti HiJack feature" allows turning the Anti HiJack feature on or off.

p. 3 "Speed control" allows setting the lock activation algorithm for Immobilizer and Anti HiJack features.

p. 4 "Number of brake pedal pressings" allows setting

the brake pedal pressings number necessary for Anti HiJack feature responding. If the Speed control is on, the setting of p. 4 does not affect anything.

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p. 5 "Anti HiJack feature response delay" allows setting the distance before locking (Speed control is on) or time before locking (Speed control is off). The time is set by

20 second intervals; the distance is set by 100 meter sections.

For example, if the option setting is 3, then:

- ◇ Locking activation delay is 60 seconds;
- ◇ Distance before locking is 300 meters.

p. 6 "PIN code entering audio confirmation" allows turning PIN code entering audio confirmation on or off.

p. 7 "Maintenance mode audio indication" allows turning Maintenance mode audio indication on or off.

p. 8 "Central locking when driving" allows turning the automatic central locking feature on or off when driving.

p. 9 "Central lock unlocking when ignition is turned off" allows turning the automatic central lock unlocking upon ignition deactivation on or off.

p. 10 "Automatic windows closing" allows turning automatic windows closing during vehicle locking on or off.

Changing the PIN code

- 1 1. Turn the ignition on
- 2 2. Enter the PIN code (if the PIN code is lost please enter the PUK code with Programming button) and wait for confirmation.
- 3 3. Press the Programming button 14 times. Wait for confirmation by 1 audible signal.
- 4 4. Set the new PIN code. You can use any vehicle button but the Immobilizer perceives only the buttons that are confirmed by the audible signal.
- 5 5. Wait for confirmation by 1 audible signal.
- 6 6. Re-enter the new PIN code.

- 7 7. Wait for confirmation:
 - ◇ 2 audible signals and a sound trill mean that the PIN code has been changed and the Immobilizer has left the PIN code changing mode.
 - ◇ Sound alert means that the PIN code has not been changed and the Immobilizer has left the PIN code changing mode. A mistake has been made when entering the new PIN code confirmation and it is necessary to repeat the PIN code changing procedure starting from p. 1.

You can exit the PIN code changing mode anytime by turning the ignition off.

Programming example

Objective: You would like to change the factory settings of the Immobilizer. For example, you would like to increase the Anti HiJack activation distance from 100 to 300 meters.

Execution:

- 1 Turn the ignition on.
- 2 Enter the PIN code and wait for confirmation.
- 3 Enter the Immobilizer setting mode by pressing and releasing the Programming button 12 times (start doing it no longer than 10 seconds after entering the PIN code). If you have performed all the actions correctly, the Immobilizer will notify you of it with 4 audible signals.
- 4 Select the programming option for setting the Anti HiJack activation distance. According to Table 1 "Immobilizer settings" option No. 5 is to be selected. To do so, press and release the Programming button 5 times. The Immobilizer will inform you on the selected menu option number by series of 5 audible signals.
- 5 Enter option No. 5 by pressing and holding the brake pedal. The Immobilizer will inform you on the option setting by repeated single audible signals because the current (factory set) option setting is 1 (which stands for 100 meters distance).
- 6 Change option No. 5 setting by pressing and releasing the Programming button twice, therefore increasing the option setting by 2 ($1+2=3$). The Immobilizer will inform you on the option setting with series of 3 audible signals (300 meters).
- 7 Exit option No. 5 by releasing the brake pedal. The Immobilizer will inform you on the current menu option number with series of 5 audible signals.
- 8 Exit the setting mode by turning the ignition off.

- 1 I am certain of my safety when driving**
«Immobilizer» - **On** «Anti HiJack» - **Off**

If you are certain that your vehicle will not be hijacked, just leave the Immobilizer feature on, which will prevent the vehicle from being stolen from its parking area and will spare you the necessity of entering the PIN code every time you open the driver's door

- 2 My car is safely secured in its parking area**
«Immobilizer» - **Off** «Anti HiJack» - **On**

If your vehicle is safely secured in its parking areas (garage, guarded parking lot). Do not waste time with entering the PIN code. Start driving right after the engine starts. Anti HiJack will remind you that PIN code needs to be entered and will protect you while you drive.

- 3 PRIZRAK in theft prevention comprehensive solution will be a shocking surprise for the car thief**
«Immobilizer» - **Off** «Anti HiJack» - **On**

Car thief's goal is to start the vehicle's engine and get away with the car by deactivating all the vehicle security comprehensive solution protection layers (car alarm, mechanical locking unit, satellite system). PRIZRAK is the last line of defense. Without compromising itself, it will allow the thief to start the engine. It will even allow the thief to start driving, but the countdown of meters covered will start. When it reaches zero, the engine will be stopped. What can a thief do then? – RUN!

- 4 Complete protection**
«Immobilizer» - **On** «Anti HiJack» - **On**

- 5 Mark your secure area**

Set the distance of engine locking activation in meters. Should the vehicle be hijacked, this would get the thieves away from you and keep you safe.

- 6 Go to the next level of secrecy**

Deactivate the audible PIN code entering confirmation. Use as complex combination of digits and buttons for the PIN code as you can. Key thing is to remember it.

- 7 Don't tell anyone**

Always use the Maintenance mode when you put your car for maintenance or simply visit a car wash etc. This will spare you from telling your PIN code to anyone. Keep your PIN code as a secret. Change it as soon as it is compromised

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