AUTHOR

IGLA

UNIQUE SECURITY SYSTEM FOR YOUR CAR

OPERATING MANUAL

version 709.1

TABLE OF CONTENTS

General information

IGLA is a unique device developed to protect your car from theft and burglary. The device has an innovative mechanism of door locking that uses standard wiring of the car so there is no additional wiring that can be easily found. The lock can be deactivated using a key fob, a smartphone or by entering a PIN-code from the standard vehicle buttons.

The device cannot be found by any known means. IGLA does not show itself until the engine is started. Moreover, due to its small size the device can be installed almost anywhere in a car.

IGLA is a new smart way to protect your car!

Benefits of the system

- Digital locking of the engine without intervention into the control signal circuit.
- Smart locking of an engine based on the readings of sensors and car status analysis.
- The device does not show itself until the engine lock is activated.
- A key fob, a smartphone or a PIN-code entered with the standard vehicle buttons can be used for deactivation.
- Use of a smartphone as a key fob
- Service mode (with automatic log out option)
- Anti Hi-Jack mode – locking of an engine in case of theft by violent means
- Comfort and Ventilation options

OPERATION CONCEPT

Algorithm of deactivation

In order to start driving one should log into the system in one of the following ways:

- one shall have a key fob or a smartphone;
- enter a PIN-code using the standard vehicle buttons.

If the key fob was detected (PIN-code is entered correctly), the system signals, the engine will not be locked and one can start driving. If the key fob was not detected (PIN-code was incorrect or was not entered at all), IGLA locks the engine.

In some car models the system switches to a mode disabling the engine start after the engine is shut off. In order to unlock the engine start up the ignition without starting the engine (without pressing the brake pedal), enter a PIN-code and start the engine.

The locking method (disabling of an engine start and/or locking of an engine that is already started at attempt of driving) depends of the IGLA settings and a car brand/model.

The security system is activated in 10 seconds after the ignition is off.

Authorization with a key fob or with a smartphone

ATTENTION! Do not leave a key fob (smartphone) inside a car when the ride is over. Otherwise the anti-theft functions will be deactivated.

In order to log into the system it is enough to have a key fob (if the key fobs were provided with the IGLA system) or a smartphone registered in the system (if the key fobs were not provided with the IGLA system).

Get into a car, start up the ignition. When a key fob/a smartphone is detected, the system will signal twice (see the annex), after that you can start driving.

If a key fob/a smartphone is not detected, there will be no verification signals and if one attempts to start driving or start up the ignition, the engine will be locked (see page 16).

Authorization with a PIN-code

The authorization order depends on the chosen way of locking, see page 16:

- If the system disables the engine start, the PIN-code should be entered before the start of the engine.
- If the system does not disable the engine start, the PIN-code can be entered both before the start of the engine and after.

ATTENTION! The initial PIN-code is set by the specialists of the service centre. Before running the system for a first time change the PIN-code and memorize a new one (see page 18).

Get into a car, start up the ignition, start the engine if needed and enter a PIN-code using the standard vehicle buttons*.

* Some buttons start functioning in 2-5 seconds after starting the ignition or the engine (see the annex). Moreover, some buttons can be pressed at most every second.

It is recommended to enter a PIN-code right before the ride. The interval between the pressing of the buttons shall not exceed 2 seconds. There is no difference between long and short clicks.

When a key fob/a smartphone is detected, the system will signal twice (see the annex), after that you can start driving.

If the PIN-code is incorrect, there will be no confirmation signals and if one attempts to start driving or start up the ignition, the engine will be locked locked (see page 16). The second attempt to enter a PIN-code is available in 5 seconds after a failed attempt to log in or after turning off the ignition for 3 seconds and starting the ignition again.

Anti-Hi-Jack mode

This mode allows to prevent the theft of a car. It enables the locking of an engine in case of a theft when the car is at the safe distance.

The «Anti-Hi-Jack» mode is activated automatically in the following cases:

- you logged into the system (a key fob, a smartphone or a PIN-code)
- the engine is on
- the driver's door was open for more than 3 seconds
- the brake pedal is not pressed

ATTENTION! By default the Anti-Hi-Jack option is deactivated. In order to activate this option see the item «Options of the anti-theft system IGLA», page 23.

After activation of this mode when the car has travelled 300 meters the external light-signals* go on (brake lights/parking lights and alarm lights) warning the road users about the possible stop. At the same time inside the car there will the quickening sound signals.

In 20 seconds after the sound signals started the alarm switches on (the horn and the alarm lights) and the engine is locked. The engine is locked then the car stops or it has a low speed (up to 30km/h).

The Anti-Hi-Jack mode can be deactivated any time after its activation by entering the valid PIN-code when ignition or engine is on. The Anti-theft mode is not deactivated if a key fob or a smartphone is inside the car.

Service mode

The service mode is used for a temporary deactivation of the anti-theft device when you give your car for the maintenance (without giving away the PIN-code and saying about the device).

It is better to activate the service mode before the ignition or the engine is off at the end of a trip.

After the authorization (after the PIN-code is entered) press the service button 5 times.** The interval shall not be more than 2 seconds. The activation of the service mode will be shown by 5 indication signals*.

* The signals depend on a car brand/model.

** See the annex.

The service mode can be deactivated in two different ways:

1. Automatically – when you finished driving and the speed during your ride had reached 50 km/h at least once and the car had been in motion at least 3 minutes without stops (or with stops that were not longer than 3 minutes).
2. Manually – PIN-code input.

The double indication signal will show that the service mode is deactivated.

After the deactivation of the service mode next time the ignition is started up or the engine is started you will have to use a key fob, a smartphone or enter a PIN-code.

Transport mode

The Transport mode is used to switch off the anti-theft IGLA system temporary and in comparison to the service mode it can be deactivated only with a use of a PIN-code.

This mode should be used when you do not want the security options to start automatically with speeding up when you have already switched off the IGLA system. This mode can not be deactivated automatically when the speed is growing.

In order to activate the transport mode one needs a plastic card with an individual secret code, hidden under a protective layer. The card is a part of the anti-theft system set.

1. Start up the ignition without starting the engine.
2. Press the pedal brake and while keeping it pressed press the accelerator* pedal a certain number of times as far as it can go where the number is equal to a first figure in a secret code. Release the brake pedal. The first figure of a code will be confirmed.
3. Input the rest figures of the secret code in the same way (see item 2).

If the PIN-code is correct, the device will pass into a PIN-code change mode and will signal every 3 seconds. Press the service button 5 times.** The interval shall not be more than 2 seconds. The activation of the service mode will be confirmed by 5 indication signals.***

In order to deactivate the transport mode enter the valid PIN-code. The dual indication signal will show that the service mode is deactivated.

Protection from key programming

Protection from key programming is available for some car models (learn more on the website www.author-alarm.com, section System compatibility). This option protects the car from programming a new intelligent key that could be used by a criminal to start the engine.

In order to program a new key in a service centre the service mode shall be used (see page 8).

* For some car models other controls are used instead of a accelerator pedal (see the annex).
** See the annex.
*** The signals depend on a car model.

Use of a smartphone as a key fob

In order to authorize automatically a smartphone can be used as a key fob if there is no key fobs in the IGLA system set.

A car-owner can log into the system manually entering the PIN-code or automatically using a smartphone connected to the system without unlocking it.

Currently this option is available for the following phones:

Android
Smartphones supporting: • Android 5.0 or higher • Bluetooth 4.0+ (LE) More details in IGLA app (see the link below)

Download and install IGLA app using the link or QR-code below for authorization via smartphone:

https://play.google.com/store/apps/details?id=com.dma.author.igla

ATTENTION! Only one smartphone can be used as a key fob.

In order to integrate a smartphone into a system it is necessary to do the following:

1. Turn on Bluetooth in a smartphone.

2. Start IGLA app.

3. Go to a tab «Settings».

4. Press the button «Connect to a car».

5. Start up the ignition.

6. Log into the system using the PIN-code.

7. Activate the PIN-code change mode (press the accelerator or another control device depending on a car model, enter a PIN-code), indication will signal every 3 seconds.

8. Press the service button once.

9. Follow the instructions shown on the screen and then press «Continue».

10. In a pop-up window enter the secret code indicated on the plastic card supplied as a part of a set, after this the smartphone will be connected to IGLA system.

11. Press the button in the centre of the screen on the tab «Authorization» in order to activate the key fob mode.

Now the smartphone will function as a key fob, connecting to the IGLA system via the encrypted channel.

ATTENTION! Smartphone functions as a key fob only when Bluetooth is on.

The key fob is activated at distance from 0,5 to 10 meters depending on the placement of IGLA system.

If the connection of the smartphone failed, delete all the connected key fobs using the PIN-code resetting (see below) and delete the connection between the devices in a smartphone.

Settings - Bluetooth - DEVICES - IGLA - Delete connection

ATTENTION! In case the smartphone is lost for security reasons delete it from the memory of the IGLA system. In order to do that reset a PIN-code entering the same code as a new one (see page 18).

If a PIN-code is successfully reset, the system will signal twice. When the key fob is deleted, the signal will give two double signals.

It is recommended to do this right after the smartphone is lost.

If it is necessary to delete the smartphone form the IGLA system, do it in the tab «Settings» in the IGLA app.

ADDITIONAL FEATURES

Additional options are activated/deactivated according to the item «Options of the anti-theft IGLA system», page 23.

ATTENTION! The additional options are supported depending on the car model and its configuration.*

«Comfort» option

Some car models* support Comfort option that closes windows and the sunroof when the security system is activated using a standard key fob. This option is active by default.

Ventilation option

Some car models* support Ventilation option that opens the windows after a triple click on a standard key fob for security system deactivation. This option is active by default.

Opening and closing of a central lock in a particular case

For some car models* the security of a driver is protected by an option of a central lock closing when the speed exceeds 10 km/h. This option is activated once after the ignition is started. The option of a central lock closing is on by default.

For the cars with the ignition key the central lock opens when the key is pulled away from the ignition. If a car

* See the section System compatibility on the web-site author-alarm.com

has a START-STOP button the central lock opens when the ignition is off. The option functions only after the authorization. By default the central lock opening option is off.

Additional options

There are additional options for some car models*, e.g. automatic shutdown START-STOP, indication signal change etc.

* See the section System compatibility on the web-site author-alarm.com

SYSTEM SETTING

Locking of an engine

The anti-theft device IGLA prevents the theft by shutting off the engine or disabling its start.

The method of locking is set **automatically** when the device is connected to a car:

- for some car models only the disabling of a car start is available
- for some car models it is only possible to shut off the engine
- for others both methods are available In order to deactivate the disabling function see the item "Options of the anti-theft IGLA system", page 23.

An additional locking circuit is activated at the attempt of driving without authorization (or in Anti-Hi-Jack mode) when there is no data on a CAN-bus needed for the IGLA system or the digital locking has failed. In other cases the activation of the additional circuit is impossible.

Use a PIN-code or stop the ignition for more than 3 seconds in order to unlock.

PIN-code setting

1. Make sure the ignition is on, the red and the grey wires are connected to DC+, the device in a PIN-code setting mode (the indication signal every 3 seconds).
2. Enter a PIN-code using the buttons available for programming (see the annex). **Every click shall be**

followed by an indication signal.

The number of clicks shall be in the range from 3 to 20. The interval shall not be more than 2 seconds. There is no difference between long and short clicks.

Different combinations of buttons and their order can be used, e.g. if you press CRUISE ON/OFF two times and press CRUISE SET- once, the system will save all the clicks in this order. When the PIN-code is entered there will be 3 signals.

3. Enter the current PIN-code once again. If the PIN-codes match than there will be 2 signals and the PIN-code will be **successfully saved**.

   If there are 4 indication signals, it means the PIN-code do not match and the PIN-code **has not been saved**. Turn off the ignition and repeat the items 1-3.
4. Turn off the ignition.
5. Disconnect the red and the grey wires from DC+ in order to reload the device.
6. Connect the red wire to the supply circuit (do not connect the grey wire!).

ATTENTION! It is recommended to change the pre-set PIN-code when the car is out of the service centre.

Device number check

This check is necessary to confirm the connection between a card and the installed device. **If the card number does not match with the device secret code, a new PIN-code can be set only in a specialized service centre**.

It is recommended to do this check right after one gets a car with the installed anti-theft IGLA system from the service centre.

1. Start up the engine without starting the engine.
2. Press the pedal brake and while keeping it pressed press the accelerator* pedal as far as it can go the number of times where the number is equal to a first figure in a card number (indicated on a plastic card). Release the brake pedal. The first figure will be verified.
3. Input all of the rest figures in a same way (see item 2).

If the number is correct, the system will signal twice. If nothing happens, that means the number was entered incorrectly or it does not match with the device number.

Change of a PIN-code

The PIN-code set in the service centre shall be changed when a car-owner get his/her car back from the service centre with the IGLA anti-theft system installed.

Also it is recommended to change a PIN-code if you suspect someone has watched you entering the PIN-code.

1. Start up the engine without starting the engine.
2. Enter the current PIN-code to authorize. There will be 2 indication signals.
3. Press the accelerator pedal* as far as it can go and keep it pressed.

* For some car model other controls are used instead of an accelerator pedal (see the annex).

4. Enter the current PIN-code once again. The device will pass to the PIN-code change mode and the signal indication will go on every 3 seconds. Release the accelerator pedal*.

ATTENTION! If the current PIN-code includes «Slight touch on accelerator pedal», it is necessary to enter the PIN-code once again after the authorization (item 2) and then press the accelerator pedal as far as it can go. Then perform item 5.

5. Enter a new PIN-code using the buttons available for programming (see the annex). **Every click shall be followed by an indication signal**. The number of clicks shall be in the range from 3 to 20. The interval between the pressing of the buttons shall not be more than 2 seconds. There is no difference between long and short clicks.
   Different combinations of buttons and their order can be used, e.g. if you press CRUISE ON/OFF two times and press CRUISE SET- once, the system will save all the clicks in this order.
   When the PIN-code is entered there will be 3 signals.
6. Enter the current PIN-code once again. If the PIN-codes match than there will be 2 signals and the **PIN-code** will be **successfully saved**.
   If there are 4 indication signals, it means the PIN-code do not match and the PIN-code is not changed. Turn off the ignition and repeat the items 1-6.
7. Turn off the ignition.

* For some car model other controls are used instead of an accelerator pedal (see the annex).

ATTENTION! Memorize the PIN-code or write it down after it has been changed. **Do not leave the PIN-code and the plastic card with the secret number inside the car!**

PIN-code resetting

In case the current PIN-code is lost the car-owner can reset it.

In order to reset a PIN-code one needs a plastic card with an individual secret code, hidden under a protective layer. The card is a part if the anti-theft system set. Prepare the card before the resetting.

1. Start up the ignition without starting the engine.
2. Press the pedal brake and while keeping it pressed press the **accelerator*** pedal a certain number of times as far as it can go where the number is equal to a first figure in a secret code. Release the brake pedal. The first figure of a code will be confirmed.
3. Input the rest figures of the secret code in the same way (see item 2).

If the PIN-code is correct, the device will pass into a PIN-code change mode and will signal every 3 seconds. If there is no indication, the code is incorrect. In this case turn off the ignition and repeat the steps for resetting.

* For some car model other controls are used instead of an accelerator pedal (see the annex).

If the resetting was successful and the device switched to the PIN-code changing mode. enter a new PIN-code (3-20 clicks).

After 3 indication signals, enter the PIN-code for the second time.

It the code match there will be 2 signals. The device saves the new PIN-code and switches to the standard mode. If the code do not match, there will be 4 signals. In this case repeat all of the steps for resetting, beginning with step 1.

Adding or deleting of key fobs

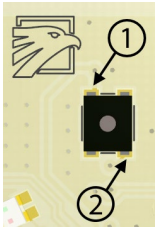
In order to add a new key fob do the following:

1. Remove the battery from the key fob.
2. Start the key fob saving mode
    - Start up the ignition.
    - Log into the system using the PIN-code.
    - Press the accelerator pedal as far as it can go*
    - Enter the PIN-code once again
    - Press the service button one time**
3. **For M52 key fobs see the board tagging:** Insert the battery in a new key fob. The green LED indication will start flashing. The flashing shall stop when the key fob is connected to the device. If the connection failed, the flashing stops in 15 seconds after the battery is inserted. Check that the key fob is functioning.

* For some car model other controls are used instead of an accelerator pedal.
** See the annex.

For M24, M51 key fobs see the board tagging:

Close the key fob contacts shown on the right drawing and insert the battery. The LED indication will start flashing green every second and when the key fob is connected it will flash red once.



ATTENTION! The old key fob (part of the IGLA system set) cannot be connected to the device. Use only new key fobs bought from the manufacturer.

Erase the key fob from the device memory in case of loss in order to prevent theft. On order to erase the key fob change the PIN-code to the current PIN-code (see page 20) and press the service button 10 times without starting up the ignition.* Press the button within 10 seconds after PIN-code confirmation.

If the PIN-code is successfully changed the indication signals twice and there are two double signals if the key fob was successfully erased.

ATTENTION! During this procedure all of the saved key fobs will be erased from the memory. Key fobs that were saved and then erased cannot be added to the memory once again.

* See the annex

REFERENCE INFORMATION

Options of the anti-theft system IGLA

ATTENTION! The options are supported depending on a car model (see the section System compatibility on the web-site author-alarm.com).

Option	switched on	switched on
Service mode	5	Automatically or using PIN-code
Opening of a central lock in a particular case*	6	7
Closing of a central lock at speed > 10 km/h	8	9
Ventilation	10	11
Comfort	12	13
Mirror fold	14	15
Anti Hi-Jack	16	17
Engine start disabling**	18	19
Additional option	20	21

* Cases for central lock opening:
- for the cars with the ignition key the central lock opens when the key is pulled away from the ignition.
- for the cars with START-STOP button the central lock opens when the ignition is off

** Initial status of an option depends on a car model (see the section System compatibility on the web-site author-alarm.com). When the option is deactivated the system locks the working engine using a CAN-bus or an additional circuit (depending of the IGLA system installation).

The state of options installed in the system by default («switched on», «switched off») is marked with grey in the table. The figures in the table show how many times the service button shall be pressed for a particular option state.

For some car models (see the section System compatibility on our web-site author-alarm.com). automatic shutdown START-STOP, indication signal change etc.

In order to change the option state do the following:

1. Start up the ignition without starting the engine and enter the PIN-code to authorize.
2. Press the accelerator pedal* as far as it can go and keep it pressed.
3. Press the service button the number of times needed to reach the particular state – «switched on» or «switched off» (see the figures in the corresponding column in the table). For example, 16 times to switch the
   Anti Hi-Jack mode or 17 to switch it off. The indication signals will confirm the action. The option state will be changed.
4. Release the accelerator pedal*.

ATTENTION! If the «Slight touch on accelerator pedal» is used as a service button, perform item 3 after the authorization in the system (item 1), then press the accelerator pedal as far as it can go and keep it pressed until you see the indication.

* For some car model other controls are used instead of an accelerator pedal (see the annex).

Add-in modules for the standard functions of IGLA

CONTOUR

CONTOUR, a control module for the hood catch, secures the under hood space when working together with the IGLA system. Apart from the hood catch control there is an option for the control of the additional normally closed locking relay.

The hood catch is closed in the following cases:

- The car security is active (the central lock is closed)
- In 10 seconds after the ignition is off
- The Anti Hi-jack mode is active

The hood catch cannot be closed if the hood is open. The hood catch is unlocked after the authorization in the IGLA system.

OBD BLOCK

OBD BLOCK system is made to prevent the diagnostic outlet OBD-II from the unauthorized access. The system allows to prevent the tweaking of standard software aimed to bypass the anti-theft system in cases of unauthorized access to the diagnostic outlet.

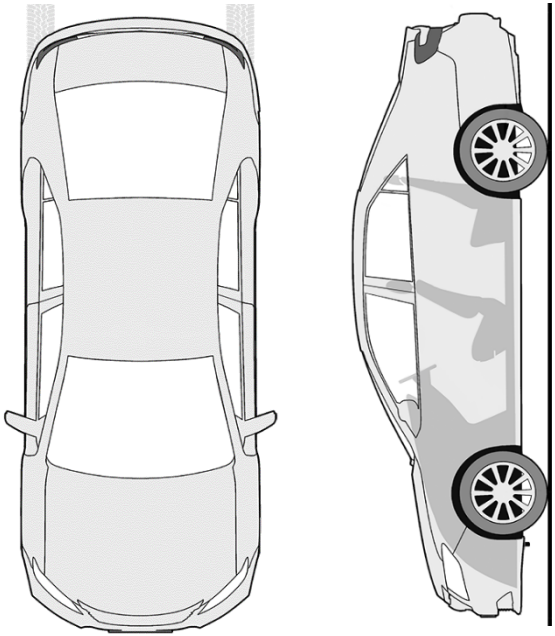
TOR

TOR – a digital CAN-bus relay aimed to provide complex protection of car with the IGLA system installed.

TOR uses the additional locking circuit that is activated in case the connection with the engine control unit via CAN-bus is faulty or disrupted. Locking allows to activate the Operating engine shutoff option and Anti Hi-Jack options for car without digital locking of an operating engine.

Visit our web-site author-alarm.com to order the additional options.

Placement of a locking module



ATTENTION! Keep the PIN-code in mind or write it down after you have changed the PIN-code. **Do not leave the plastic card with the code as well as this guide inside the car!**

Specifications

Current consumption in a standstill mode
(the ignition is off) ..... 6-8 mA
Radio-channel frequency ..... 2,4 GHz
Battery life ..... 6 months
Key fob battery type CR2025

List of standard equipment

Anti-theft system IGLA	1 pcs
Operating manual	1 pcs
Plastic card «Guidelines»	1 pcs
Plastic card «Device number»	1 pcs
Packing	1 pcs
Locking relay*	1 pcs
Key fob*	2 pcs

* optionally

EAC Made in Russia
Manufacturer: AUTHOR Ltd.
C-RU.MT49.B.01595

The developer and the manufacturer retain the right to make technical updates not specified in this operating manual. To learn more visit our web-site:

http://author-alarm.com

WARRANTY CERTIFICATE

Warranty is 12 months from the date of the purchase. During this period technical support and maintenance are guaranteed for free. The warranty does not apply to the items with:

- mechanical damage, burnt and char pieces, components, conductive tracks etc.;
- traces of an independent repair;
- damage caused by natural hazards, fire, social factors;
- violation of the tamper-evident seal, damage or absence of a factory/trade label.

Only items in complete set and with the original packing are taken for warranty repair.
Absence of packing is regarded as noncompliance with transportation rules. The warranty does not apply to the damage incurred to another equipment operating together with this device.

Item (model) _____

Sale date _____/____/_____

The contents of delivery ___, functioning ___, absence of mechanic damage ___ are checked.
I am acquainted and agree with the condition of warranty service:

Buyer _____

Seller _____ seal

IGLA