


IGL ALARM

SERVICE MANUAL



AUTHOR
ALARM



ELECTRIC·LIFE

Dear client!

The anti-theft systems manufactured by AUTHOR are meant to be installed only in the certified installation centers in your region.

The systems installed by non-certified centers or by individuals are not subjected to warranty and service maintenance.

27/07/20
nRF52


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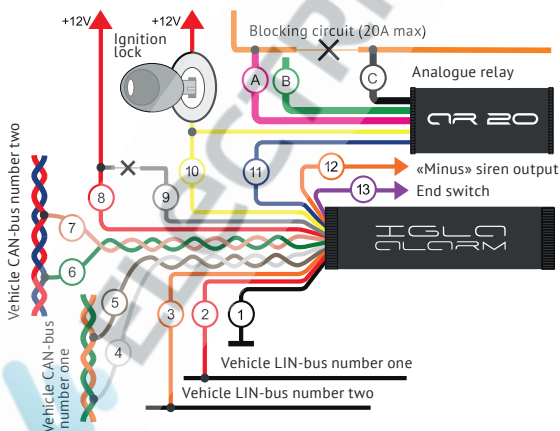
DEVICE CONNECTION

Wiring diagram

The IGLA ALARM anti-theft system installation should be conducted when the ignition is turned off. The system should be installed in a secured place in the car inaccessible for criminals.

 *The device should be set up with the additional module CONTOUR connection for some cars.*

In order to set up the device, connect the wires according to the wiring diagram below:



1. **Black.** «Ground» (permanent «minus»)
2. **White-Red.** LIN-bus number one.
3. **Orange-Black.** LIN-bus number two.

4. **White.** CAN-bus number one LOW.
 5. **Brown.** CAN-bus number one HIGH.
 6. **Green.** CAN-bus number two LOW. | *might be required*
 7. **Pink.** CAN-bus number two HIGH. | *for some cars*
 8. **Red.** Permanent «plus».
 9. **Gray.** Programing wire (for the first adjustment should be connected to a «plus»).^1
 10. **Yellow.** Ignition.^2
 11. **Blue.** «Minus»-output to the analog relay (max 250 mA).
 12. **Orange.** «Minus» siren output (max 250 mA, see page number 4).
 13. **Violet.** End switch (optional). In the IGLA ALARM device the violet wire is used for connection to an analog end switch (for example the end switch of the hood). Connection of this wire with «Ground» for longer than two seconds period is considered disturbance. The characteristics of this signal have the same nature as the characteristics of the doors, hood and hatch disturbance.
- A. **Violet.** Normally closed contact.
 - B. **Green.** Normally open contact.
 - C. **Black.** Common wire (COM).

Connection to the LIN-1 and LIN-2 buses may provide the opportunity to use the LIN-buses³ for the **engine start prohibition** function realization. In this case the additional relay connection is not required.

1 The gray wire (9) should be connected to a permanent «plus» for initial recording of the PIN-code.

2 The yellow wire should be used only when connecting the analog relay.

3 Check out the connection opportunity to the LIN-bus for the particular make of car on the official service website <https://service.author-alarm.com/>.

The engine stop function may be realized by use of the analog relay (see page number 5). The analog relay should also be used in the case the connection to the LIN-bus is not available in the particular car.

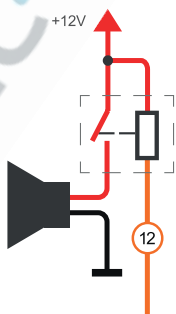
After the IGLA ALARM system has been connected turn on the ignition. The car will be recognized automatically, the indication signals will begin to blink once in three seconds.

Siren connection

IGLA ALARM informs the owner and people near the vehicle about alarming events using external sound and light signals.

The following can be used as an external sound signal:

- regular horn (depends on the make, model and equipment of the car)
- the siren is connected to the orange wire IGLA ALARM
- the siren is connected to the CONTOUR module



«Minus» siren output

It is necessary to connect the siren to the orange wire IGLA ALARM (max. 250 mA) via a relay.



Blinkers are normally used as light signals (some other variants of external signals can be used depending on the particular make of the car).

Additional protective contour

There may be connected the additional protective contour to the IGLA ALARM system for providing maximal protection to the car from being theft. It begins to work in the case the connection with the engine operating module through the CAN-bus has been interrupted or hindered. This type of blocking allows the anti-hijack and the engine stop functions to be realized in the cars where the digital type of blocking through the CAN-bus is unavailable.

In the case the additional protective contour is already being used by the CONTOUR hood lock module, the additional analog relay connection to the IGLA ALARM system is not required.

Additional contour connection

Additional contour blocking is realized through the normally closed contact of the relay. This type of blocking is used in the case of an emergency in the cars for which the digital type of blocking through the CAN-bus is not supported. Analog blocking may be used in any circuits breaking of which may result to the engine stopping (even if it may result to emerging of some errors). The blocking is implemented by the «minus»- potential appearing at the blue wire when the ignition or the engine is ON (the status is being monitored through the yellow «ignition» wire).

FIRMWARE UPDATE

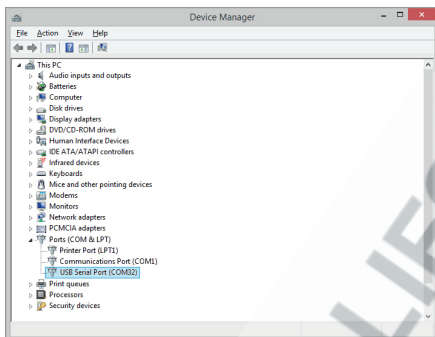
The IGLA ALARM system firmware update is implemented remotely through the Bluetooth channel with no need to dismount the device.

In order to update the firmware, you will need to:

1. Download and install the BLE112-module driver (the USB-dongle should be connected to the computer).
2. Download the archive with the **Author Flasher** software and unpack it to any folder on the computer.
3. Transfer the IGLA ALARM to the firmware change mode and perform the updating procedure using the **Author Flasher** tool.

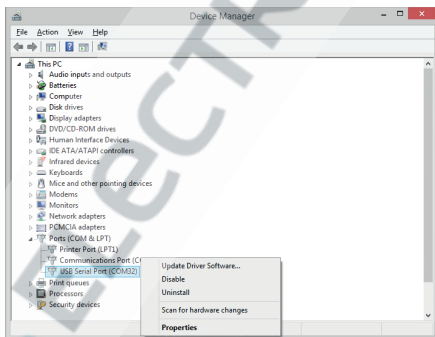
BLE112 drivers installation

1. Unpack the «Driver BLE adapter.7z»-archive content to any folder on the computer.
2. Connect the USB-dongle to the computer.
3. Open the device manager on the computer (works only Windows-operated computers):
Start – Control panel – Device manager
or click the right button of the mouse on the icon
This computer – Operation – Device manager.
4. Find the new device in the list of the new devices. It may be ticked with the exclamation sign «!» as unidentified device and may be placed into:
 - Ports (COM and LPT)
 - USB-controllers
 - Other devices



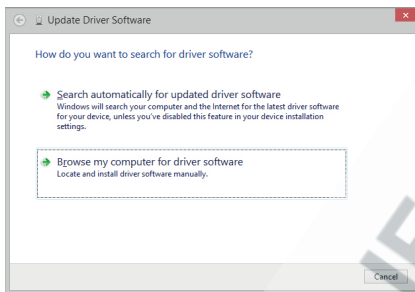
Example of the device identification

5. Click the right button of the mouse on the name of the device and in the drop-down menu choose the point «Update Driver Software...».

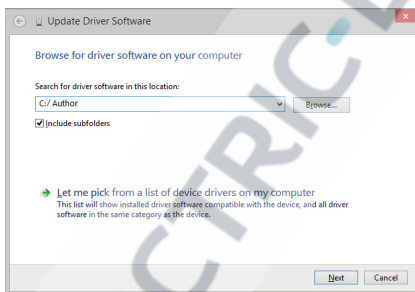


Choose «Update Driver Software...»

6. Press on «Browse my computer for driver software» and enter the path to the folder that the drivers have been unpacked to.

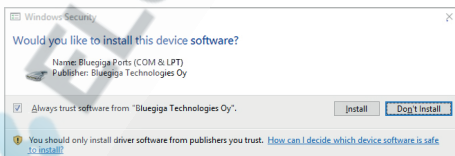


Choose «Browse my computer for driver software»

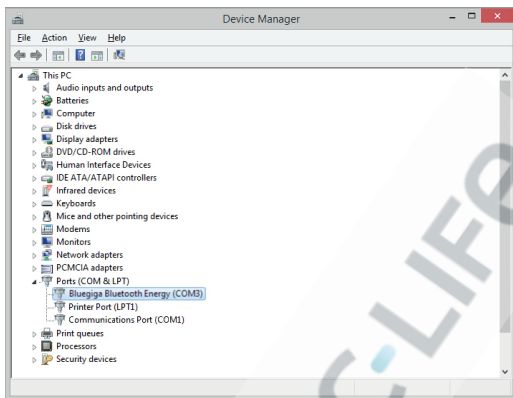


Choose the folder with the just unpacked archive

7. Press the «Install» button.



8. After the installation process has been completed, the « Bluegiga Bluetooth Energy » device will appear in the list of the devices.



9. Installation of the driver has been finished.

The Author Flasher software installation

The Author Flasher application does not require installation and ready to be launched right after the archive with the newest version of the application has been unpacked.

| This PC > Author > AuthorFlasher_11.09.2018 (v3.0) | | |
|--|--------|------------------|
| <input type="checkbox"/> Name | | Date modified |
| ru | | 11.09.2018 19:31 |
| AuthorFlasher.exe | 557 KB | 11.09.2018 19:31 |
| Bled112Transport.dll | 375 KB | 11.09.2018 19:31 |
| CuckooStuffingLib.dll | 53 KB | 11.09.2018 19:31 |
| HexLib.dll | 94 KB | 11.09.2018 19:31 |
| IglaLib.dll | 134 KB | 11.09.2018 19:31 |
| Newtonsoft.Json.dll | 491 KB | 10.09.2018 10:02 |
| System.Net.Http.Formatting.dll | 181 KB | 10.09.2018 10:02 |
| WizardPages.dll | 49 KB | 11.09.2018 19:31 |



The application is supported only by Windows-operated computers (Windows 7 or above).

For correct work of the application «NET framework 4.5» may be required that can be downloaded and installed by double click of the left button of the mouse on the file «dotNetFx45_Full_setup.exe».

The IGLA ALARM firmware update



Situate the computer with the BLED 112 USB-dongle as close to the device as possible in order to arrange a stable connection.

Transfer the device to the firmware change mode:

If the device has not been connected to the car yet or the set firmware is for another car model follow the next steps:

1. Twist the red and the gray wires together and connect them to the «plus» of the power supplying source.
2. Connect the black wire of the device to the «ground».



Connection of the device to the CAN-bus at this stage is not mandatory.

If the device has already been installed in the car:

1. Turn on the ignition without starting the engine.
2. Enter the current PIN-code or sign in with a key fob.
3. Press the accelerator¹ and holding it pressed, enter the previously entered PIN-code once again.
4. Release the accelerator when the indication signs start appearing once in three seconds².



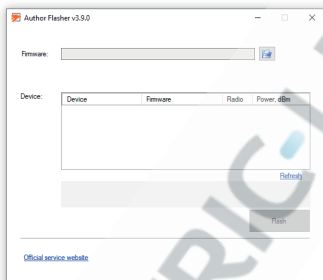
The firmware update and the PIN-code change is possible in this mode.

1 The algorithm of the initial PIN-code setting is provided on page number 27.

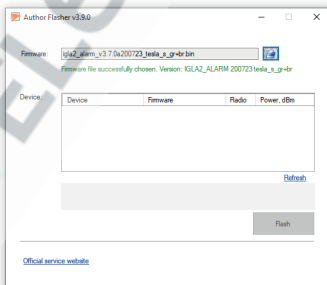
2 A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).

Perform the IGLA ALARM firmware change procedure:

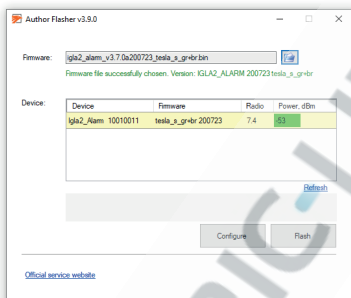
1. Open the **Author Flasher** application by double click of the right button of the mouse on the AuthorFlasher.exe file. The USB dongle should be plugged in; otherwise the application will require to plug it in after having been started.



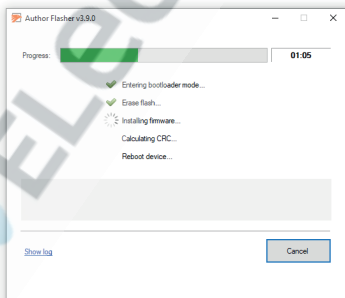
2. Choose «Select» and specify the path to the folder where the firmware (.bin) is stored (The file extension may be manually changed into «.hex» for better compatibility with the older versions).



3. Press «Refresh» in order to establish the connection between the IGLA ALARM and the BLED 112 Bluetooth USB-dongle. After identification of all of the available devices, they will appear in the device list.



4. Choose the device the firmware of which is planned to be updated and press «Flash». The firmware change/update process will be started (it normally takes about two minutes).



5. When the process is finished, press «OK».

6. Turn off the ignition and turn it on again.

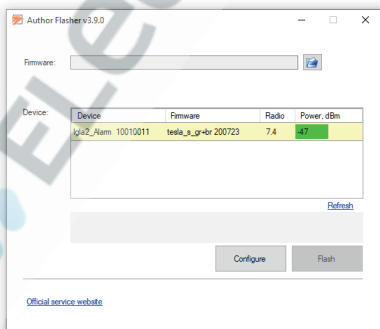


The PIN-code and the serial number of the device will remain unchanged.

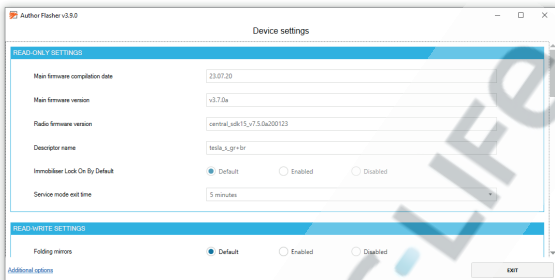
7. Enter the valid PIN-code to sign in. Successful firmware update will be confirmed by the indication signs. If the firmware change procedure has been unsuccessful, repeat steps number 1-7. In this case the device should be transferred in the manual firmware change mode: the red and the gray wires are twisted together and connected to the «plus», the black wire is connected to the «Ground».

Setting of the IGLA ALARM parameters

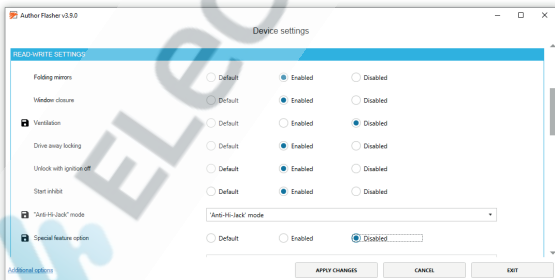
The parameters of the IGLA ALARM can be adjusted through the Author Flasher application when the ignition is on. The radio version of the device being adjusted should be 7.2.1 or above.



1. Choose the IGLA ALARM among the available devices in the list and press the «Configure»-button.



2. Proceed to the «Read-write settings» - window and set the new values of the parameters of the device.





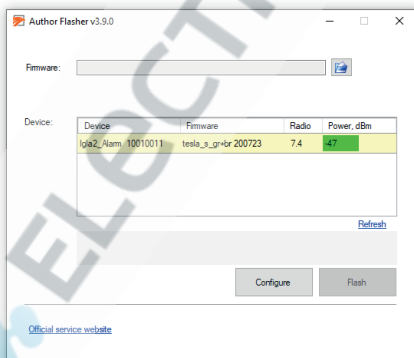
The detailed information about the options of the device is described in the user guide on the official website of the company

3. Press the «Apply changes» - button when the procedure is finished.

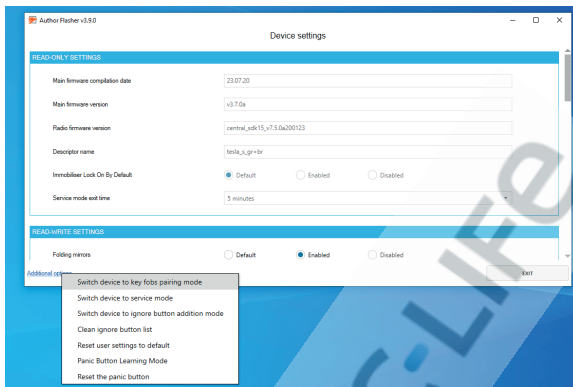
Key fobs adding

New key fobs can be added to the device through the Author Flasher application **when the ignition is on**. The radio version of the device should be 7.1 or above.

1. Choose the IGLA ALARM among the available devices in the list and press the «Configure» - button.



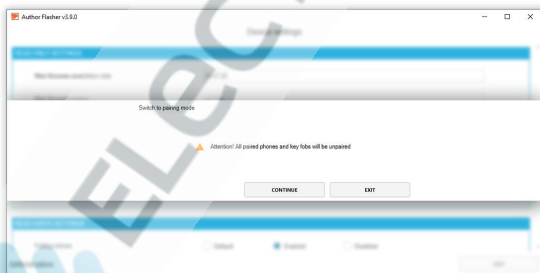
2. Transfer the device to the key fobs adding mode by clicking on the appropriate caption in the lower part of the window.



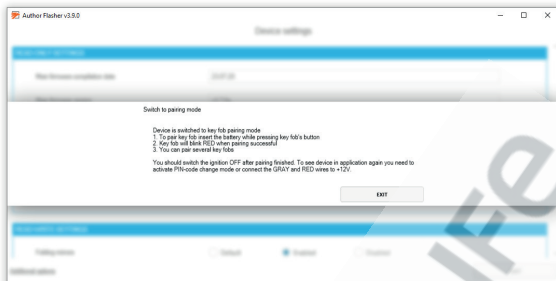
3. Press «OK» in the opened window.



All the key fobs and the smartphones previously added to the device will be erased from the memory of the device.



4. Insert the power supplying element holding the button on the key fob's body pressed. The diode should start flashing with green. After the successful adding the diode should flash with red.




 *Both of the key fobs might be added to the system at a time.*

If the addition has been unsuccessful, the diode will stop flashing and the key fob will proceed to the «sleep»-mode in 30 seconds – the reduced energy consumption mode.

5. Turn off the ignition.

Check the workability of the newly-added key fob.

 *In order to return to the device configuration, transfer the device to the PIN-code change mode as shown on page number 10. After having it done, the device will appear in the Author Flasher application among the available devices.*

DEVICE ALIGNMENT



When tying two or more devices to the IGLA ALARM, the alignment should be conducted in the PIN-code change mode by entering the valid PIN- code once again. If the gray wire is used for alignment of the devices, all the devices added sooner will be untied.

Alignment with the AUTOSTART-module

1. Connect both of the devices according to the wiring diagrams described in their manuals (do not connect the red and the gray wires of the AUTOSTART).
2. Turn on the ignition.
3. Transfer the IGLA ALARM system to the PIN-code change mode by one of the next ways:
 - Connect the red and the gray wires of the IGLA ALARM to a «plus»-wire in the car;
 - In the case the device has already been set up, enter the valid PIN-code¹ once again when the accelerator is fully pressed².



If the current PIN-code involves slight push of the accelerator, enter the PIN-code once again and after that press the accelerator to the floor.

4. Twist the red and the gray wires of the Autostart module together and connect it to a «plus»-wire in the car.
5. The systems will proceed to the alignment mode. The fact of successful alignment will be confirmed

1 The initial PIN-code adjustment algorithm is described on page number 27.

2 A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).

by:

- The indication signal of the Autostart module;
 - The double indication signal of the IGLA ALARM.
6. Turn off the ignition and disconnect the red and the gray wires from the «plus»-wire for restarting of the devices.
 7. Connect the red wires of the devices to the «plus»-wire again (do not connect the gray wire anymore).

Alignment with ATLAS or COMPASS GSM/GPS



Alignment and cooperative work of the device is possible only with SINGLE COMPASS or SINGLE ATLAS.

1. Connect both of the devices according to the wiring diagrams described in their manuals.
2. Set up the Author Connect mobile application on the phone (available for iOS of 10.0 version or above or for Android of 5.0 version or above):



Download on the
App Store



GET IT ON
Google Play

3. Launch the application, press «Create account» and sign up in the system using the phone number.
4. For adding the COMPASS or the ATLAS device to the IGLA ALARM, the plastic card included in the same set with the ATLAS/COMPASS device is required (use the **open code** on the top of the card).

*Do not erase the protective covering upon the other codes indicated on the card. These secret codes are meant to be used only by the car owner. **Use only open code in order to add the device.** The open code may be used just once for initial adjustment of the device.*



5. Supply the devices with power.
6. Transfer the IGLA ALARM system to the PIN-code change mode by one of the next ways:
 - Connect the red and the gray wires of the IGLA ALARM to a «plus»-wire in the car.
 - In the case the device has already been set up, enter the valid PIN-code¹ once again when the accelerator is fully pressed².



If the current PIN-code involves slight push of the accelerator, enter the PIN-code once again and after that press the accelerator to the floor.

7. Keeping the ignition on, open the Author Connect mobile application, proceed to the window «Operation», press the «Settings»-button (the gear wheel), press «Connect/attach» (opposite the IGLA ALARM device) in the new-opened window. The modules will be aligned.

1 The initial PIN-code adjustment algorithm is described on page number 27.

2 A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).

Alignment with TOR



Only single TOR may be added to the IGLA ALARM system.

1. Connect both of the devices according to the wiring diagrams described in their manuals (do not connect the red and the gray wires of the TOR).



Alignment of the IGLA and the TOR should be fulfilled without having the orange (status output), yellow (ignition), violet, green and white-black/white-brown (analog blocking) wires connected.

2. Transfer the IGLA ALARM system to the PIN-code change mode by one of the next ways:
 - Connect the red and the gray wires of the IGLA ALARM to a «plus»-wire in the car
 - In the case the device has already been set up, enter the valid PIN-code¹ once again when the accelerator is fully pressed².



If the current PIN-code involves slight push of the accelerator, enter the PIN-code once again and after that press the accelerator to the floor.

3. Twist the red and the gray wires of the TOR relay together and connect it to a «plus»-wire in the car (the IGLA ALARM system will signalize twice³).

1 The initial PIN-code adjustment algorithm is described on page number 27.

2 A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).

3 The indication signals can be repeated until the ignition is turned off (depends on the firmware version).

4. Turn off the ignition in 3-5 seconds after the signals have stopped and disconnect the red and the gray wires from the «plus»-wire for restarting of the device.
5. Connect the red wire of the device to the «plus»-wire again (do not connect the gray wire anymore).

Alignment with the CONTOUR-module

1. Connect both of the devices according to the wiring diagrams described in their manuals (do not connect the red and the gray wires of the CONTOUR-module).
2. Transfer the IGLA ALARM system to the PIN-code change mode by one of the next ways:
 - Connect the red and the gray wires of the IGLA ALARM to a «plus»-wire in the car;
 - In the case the device has already been set up, enter the valid PIN-code¹ once again when the accelerator is fully pressed².



When tying two or more devices to the IGLA ALARM, the alignment should be conducted in the PIN-code change mode by entering the valid PIN- code once again. If the gray wire is used for alignment of the devices, all the devices added sooner will be untied.



When adding the next device, all the previously added devices should be disconnected from the CAN-bus.

1 The initial PIN-code adjustment algorithm is described on page number 27.

2 A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).

3. Twist the red and the gray wires of the CONTOUR-module together and connect them to a «plus»-wire in the car (the hood lock should open, close and open again within 5 seconds).
4. Turn off the ignition and disconnect the red and the gray wires from the «plus»-wire for restarting of the device.
5. Connect the red wires of the devices to the «plus»-wire again (do not connect the gray wire anymore).

Alignment with the KORD-module

1. Connect both of the devices according to the wiring diagrams described in their manuals (do not connect the red and the gray wires of the KORD-module).
2. Transfer the IGLA ALARM system to the PIN-code change mode by one of the next ways:
 - Connect the red and the gray wires of the IGLA ALARM to a «plus»-wire in the car;
 - In the case the device has already been set up, enter the valid PIN-code¹ once again when the accelerator is fully pressed².



When tying two or more devices to the IGLA ALARM, the alignment should be conducted in the PIN-code change mode by entering the valid PIN- code once again. If the gray wire is used for alignment of the devices, all the devices added sooner will be untied.

¹ The initial PIN-code adjustment algorithm is described on page number 27.

² A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).



When attaching the next device, all the previously attached devices should be disconnected from the CAN-bus.

3. Twist the red and the gray wires of the KORD-module together and connect them to a «plus»-wire in the car (the hood lock should open, close and open again within 5 seconds).
4. Turn off the ignition and disconnect the red and the gray wires from the «plus»-wire for restarting of the device.
5. Connect the red wires of the devices to the «plus»-wire again (do not connect the gray wire anymore).

Alignment with the KEYLESS BLOCK



A 1CAN/1LIN KEYLESS BLOCK module can be aligned with an IGLA ALARM in case they are connected to the same CAN-bus. If the KEYLESS BLOCK should be aligned with a 2CAN/2LIN IGLA ALARM, the connection should be conducted only through the CAN-A-bus.

1. Delete all the previously added key fobs/smartphones out of memory of the IGLA ALARM (see page number 33).
2. Add all the necessary key fobs and smartphones to the KEYLESS BLOCK (see the service manual and the user guide to the KEYLESS BLOCK).



The IGLA ALARM and the KEYLESS BLOCK module alignment should be conducted when the key fob authentication mode is on. Otherwise the devices will be aligned, but authentication by the same key fob will be impossible. The connection will be broken as soon as the authentication mode is changed.

3. If the devices have already been set up in a car, transfer them into the alignment mode having fulfilled the next steps:

KEYLESS BLOCK

- turn on the ignition without starting the engine;
- push the accelerator to the floor twenty times;
- release the accelerator and wait for twenty flashes of the indication.

IGLA ALARM

- sign in using the PIN-code;
- push the accelerator¹ to the floor and keep it pushed;
- repeat the PIN-code;
- release the accelerator when the first indication flashes have started emerging (once in three seconds).



If the current PIN-code involves slight push of the accelerator, enter the PIN-code once again and after that press the accelerator to the floor.

The system will proceed to the alignment mode. Successful alignment will be confirmed by a double indication signal.

¹ A different operative organ is used in some of the cars instead of the accelerator (see the official website <https://service.author-alarm.com/>).

4. If the IGLA ALARM has already been set up in a car and the KEYLESS BLOCK has not yet, transfer them into the alignment mode having fulfilled the next steps:

- turn on the ignition without starting the engine;
- sign in using the PIN-code;
- push the accelerator to the floor and keep it pushed;
- repeat the PIN-code;
- release the accelerator when the first indication flashes have started emerging (once in three seconds);



If the current PIN-code involves slight push of the accelerator, enter the PIN-code once again and after that press the accelerator to the floor.

- twist the red and the gray wires of the KEYLESS BLOCK together and supply a «Plus» to it.

The system will proceed to the alignment mode. Successful alignment will be confirmed by a double indication signal. Turn off the ignition and disconnect the gray wire.

5. If both of the devices have not been still set up in a car:

- connect the gray and the red wires of the IGLA ALARM to a permanent «Plus» and turn on the ignition;
- twist the red and the gray wires of the KEYLESS BLOCK together and supply a «Plus» to it.

The system will proceed to the alignment mode. Successful alignment will be confirmed by a double indication signal. Turn off the ignition and disconnect the gray wire.

FIRST SETTINGS ADJUSTMENT AND CHOOSING OF THE OPTIONS

Initial setting of the PIN-code

1. Ensure that the ignition is turned on, the red and the gray wires are connected to a permanent «plus», the device is in the PIN-code change mode (the indication signal is being repeated once in three seconds).
2. Enter the PIN-code using the buttons available for programming (see the official service website of the company <https://service.author-alarm.com/>).

Each push of the button will be accompanied by the respective indication signal. The number of pushes should be from 3 to 20. The time gap between the pushes should not exceed 2 seconds. There is no difference between long and short pushes. Different buttons combinations may be used.

After the PIN-code has been entered the system will provide three indication signals.

3. Enter the PIN-code once again. The system will confirm correctness of the entered PIN-code by two indication signals. The entered PIN-code will be saved in the memory of the device.

If there provided four indication signals, this connotes that the two entered PIN-codes have not matched. In this case the PIN-code will not be saved, turn off the ignition and repeat the points from 1 to 3.

4. Turn off the ignition.
5. Disconnect the red and the gray wires of the device from the «plus» wire they have been initially connected to.
6. Connect the red wire to the power supply circuit (DO NOT connect the gray wire anymore).

The IGLA ALARM anti-theft system options



All the additional information about the options of the device is described in the IGLA ALARM User guide.

| Option | ON | OFF |
|--|----|--|
| Service mode | 5 | By entering the PIN- code or automatically |
| Opening of the central lock ¹ | 6 | 7 |
| Closing of the central lock (when the speed is above 10 km per hour) | 8 | 9 |
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| Mirror folding | 14 | 15 |
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| Engine start prohibition ² | 18 | 19 |
| Additional option | 20 | 21 |
| Step-by-step authentication | 23 | Choosing of the other way of authentication ³ |
| Two-step authentication | 24 | |
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| Additional blocking of the standard car immobilizer | 26 | 27 |
| Smartphone Bluetooth mode number two | 28 | 29 |
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1 Opening of the central lock when the key is out (key-based cars) or when the ignition is off (start/stop button-based cars).

2 Initial state of the option depends upon the car brand/make (see the official service website of the company: <https://service.author-alarm.com/>). If the option is off, the system will proceed to the working engine stop mode through the CAN-bus or through the analog relay in the case it was set up.

3 Multi-authentication mode is turned on by default (authentication might be undergone by the key fob or by entering of the PIN-code). In order to change it, the key fob or the smartphone used as key fob linked up with the device must be present.

The options set by default colored in the table in gray. The figures in the cells of the table correspond to the number of the service/valet button pushes in order to turn on or off the particular option.

Some additional options are available for some of the cars, for example: turning off the start-stop function, change of the indication signal etc. (see the official service website of the company: <https://service.author-alarm.com/>).

In order to change the state of the option, perform the next:

1. Turn on the ignition and sign in using the PIN-code without starting the engine.
2. Press the accelerator¹ to the floor and keep it pressed.
3. Press the service/valet button the number of times that corresponds to the required state of the option (ON or OFF).
4. Successful option state change will be confirmed by the indication signals (the number of signals matches the number of the service/valet button pushes).
5. After the indication signals have begun to appear, release the accelerator.



If the current PIN-code involves slight push of the accelerator, enter the PIN-code once again and after that press the accelerator to the floor.

1 A different operative organ is used in some of the cars instead of the accelerator (see the official service website of the company <https://service.author-alarm.com/>).

Engine blocking method

The anti-theft IGLA ALARM system prevents the car from being stolen by stopping of the working engine or not allowing the engine to be started.

The blocking method is **automatically** set when setting up the device in the car:

- The engine start prohibition is only available for some of the cars
- Blocking of the working engine is only available for some of the cars
- Both of the methods are used on the rest of the cars

In order to change the value of the engine start prohibition option push the service button 18 or 19 times respectively when the accelerator is pressed.



Additional analog blocking is required to be installed for some cars in order to realize the engine start prohibition function.

If the iON-function is supported by this particular car, blocking through the standard car immobilizer can be turned on (26 pushes of the service/valet button). This function is turned-off by default.

Blocking through the standard car immobilizer does not affect any other blockings operation and the AUTOSTART module.

Additional functions



Additional functions support depends on the year, brand and configuration of the car.¹

Comfort

This function is available for some cars. It comprises closing of the windows and the sunroof when being armed by the standard key. This function is **turned-on** by default.

Ventilation

The ventilation function is available for some cars. This function is activated by triple pushing of the «Disarm»-button on the standard key fob of the car. This function poses to be the windows opening function (turned-off by default).

Opening and closing of the central lock

The central lock closing function is available for some of the cars. The central lock shuts when the speed is over 10 km per hour. This function works once only after the ignition has been turned on. This function is **turned-on** by default.

The central lock opening occurs when retrieving the key from the key slot (for key-based cars) or when turning off the ignition (for start/stop button-based cars). This function works only in the case the process of authentication has been undergone. This option is turned-off by default.

¹ See the official service website of the company: <https://service.author-alarm.com/>

Additional functions

Some of the additional options are available for some cars¹, for example: automatic turning off of the Start/stop function, the indication signal change and so on.

¹ See the official service website of the company: <https://service.author-alarm.com/>

Deleting of the key fobs

In the case the key fob has been lost, **it should be deleted out of the device memory in order to prevent the car from being stolen. In order to do this:**

1. The current PIN-code should be changed to the same one (see the user guide).
2. Keeping the ignition turned on, press the service/valet button¹ 10 times. The service/valet button should be pressed within 10 seconds after the PIN-code has been rerecorded.

If the PIN-code has been successfully changed, the system will provide the double indication signal. After the key fob has been deleted, two double indication signals will be provided (in 5-10 seconds after the last pushing of the service/valet button).



This procedure erases all the key fobs and the smartphones previously recorded in the system.

Key fobs adding

Adding the key fobs with the button

This method is meant for the key fobs with the button on the print. In order to add the key fobs without buttons, use the respective algorithm (see page 35).



***The key fobs with the button may be tied only to the IGLA ALARM with the BLE nRF52 module** (see the marking on the inner part of the manual cover).*



For automatic quick key fobs adding to the system, the Author Flasher software might be used.

¹ See the official website: <https://service.author-alarm.com/>

1. Retrieve the power supply elements out of all the key fobs (including the key fobs previously added to the system) and turn off the Bluetooth on all the smartphones.
2. Erase all the key fobs previously recorded in the system memory and turn off the ignition.
3. Enter the key fobs recording mode:
 - turn on the ignition;
 - sign in with the PIN-code;
 - press the accelerator¹ to the floor and keep it pressed;
 - repeat the previously entered PIN-code;
 - release the accelerator* after the indication signals begin to appear (once in three seconds);
 - press the service/valet button** twice.



The coverage zone radius is limited. For successful key fobs connection, they should be placed as close to the device as possible (up to one meter).

4. Press the button on the key fob print and keep it pressed.
5. Insert the power supplying element into the new key fob. The diode on the key fob will start flashing with green once in a second.
6. Release the button. The fact of successful key fob connection will be confirmed with the red diode light.



The second key fob may be connected right after the first one without leaving the key fob recording mode. The second key fob may be connected later; in this case the key fob deleting procedure is not required.

7. Turn off the ignition.

1 See the official website: <https://service.author-alarm.com/>

If connection has not been successful, flashing of the diode will stop in 30 seconds after installation of the power supplying element and the key fob will be transferred in the «sleep» mode with low energy consumption. In this case, repeat the pairing procedure once again. The key fob leaves the «sleep» mode after having been moved.

Check out the key fob workability after pairing it with the device. Ensure it is displayed in the Author Config application (available for Android only).

Adding of the key fobs with no button

This method is meant for the key fobs bought from the official manufacturer. For adding of the key fobs, that have already been used once and been deleted, use the manual adding method (see page 37).



The key fobs with no buttons may be added to the device with the radio module version 7.2 or above (see the information on the label on the box).

1. Ensure the key fob is in the adding mode:
 - insert the power supplying element to the key fob;
 - ensure the diode of the key fob is flashing with green.
2. Retrieve the power supplying elements out of all the key fobs (including the key fobs previously connected to the system) and turn off the Bluetooth device on all the phones.
3. Erase all the buttons previously recorded in the memory of the system (see «key fobs deleting» paragraph) and turn off the ignition.

4. Enter the key fobs adding mode as shown in the respective passage on page 34.
5. Insert the power supplying element into the new key fob. The diode of the key fob will start flashing with green once in a second. Successful connection will be confirmed with the red light of the diode.



Adding of the second key fob is possible right after the first one without leaving the «key fob adding» mode. The second key fob may be tied later as well by repeating all the procedure from the beginning (in this case the key fobs deleting is not required).

6. Turn off the ignition.

If connection has not been successful, flashing of the diode will stop in 30 seconds after installation of the power supplying element and the key fob will be transferred in the «sleep» mode with low energy consumption. In this case, repeat the pairing procedure once again. The key fob leaves the «sleep» mode after having been moved.

Check out the key fob workability after pairing it with the device. Ensure it is displayed in the Author Config application (available for Android only).

Manual connection of the key fobs

This method is meant for the key fobs, that have already been used once and been deleted.



Use only the key fobs with M52L marking on the print. Do not use the key fobs with M24 marking.



The key fobs with no buttons may be added to the device with the radio module version 7.2 or above (see the information on the label on the box).

1. Retrieve the power supply elements out of all the key fobs (including the key fobs previously added to the system) and turn off the Bluetooth on all the smartphones.
2. Erase all the buttons previously recorded in the memory of the system (see «key fobs deleting» paragraph) and turn off the ignition.
3. Enter the key fobs adding mode as shown in the respective passage on page 34.
4. Close the pins on the key fob print manually (using a piece of electrical wire or a piece of some other material that can conduct electric current) as shown in the picture on the right and insert the power supplying element. The diode will flash once in a second.
5. Break the contacts. The fact of successful connection will be confirmed by the red diode light.



Adding of the second key fob is possible right after the first one without leaving the «key fob adding» mode. The second key fob may be paired later as well by repeating all the procedure from the beginning (in this case the key fobs deleting is not required).

6. Turn off the ignition.

If connection has not been successful, flashing of the diode will stop in 30 seconds after installation of the power supplying element and the key fob will be transferred in the «sleep» mode with low energy consumption. In this case, repeat the pairing procedure once again. The key fob leaves the «sleep» mode after having been moved.

Check out the key fob workability after pairing it with the device. Ensure it is displayed in the Author Config application (available for Android only).

Authentication by the key fobs of the KEYLESS BLOCK

The authentication process in the IGLA ALARM can be undergone by the key fobs included in the KEYLESS BLOCK set. For this purpose, the devices should be aligned (see page 24).

Disarming of the IGLA ALARM happens right after disarming of the KEYLESS BLOCK by exchanging with the encrypted messages with each other through the regular CAN-bus of the car. If the two-step authentication mode is turned-on, the PIN-code is necessary to be entered with the standard buttons.

Key fobs indication table

The diode of the key fob provides the indication signals according to the next table:

| Color | Signal | Event |
|-------------------------|--------------------------|--|
| Green | Single | The battery is high |
| Red | Single | The battery is low ¹ |
| Orange (Green + Red) | 5 seconds | The built-in accelerometer is malfunctioned ² |
| Green | 30 seconds (flashing) | The key fob adding mode is active |
| Red | 3 seconds | The key fob has been successfully added |

If the key fob has not been in motion for more than 10 minutes, it proceeds to the «sleep» mode with reduced energy consumption. The key fob leaves this mode automatically when being moved.

1 The power supplying element is recommended to be changed.

2 In the case the accelerometer is malfunctioned, the key fob will not proceed to the «sleep» mode, however, it still might be used for authorization (authentication).

Authorization (authentication) modes

Multi-authorization (authentication) mode

Multi-authentication mode is **switched on** by default. It allows the authentication to be undergone by the PIN-code, the key fob or the smartphone used as a key fob.

Deactivation of this mode is conducted by activation another authentication mode:

- 23 pushes of the service/valet button – step-by-step authentication;
- 24 pushes of the service button – two-step authentication.

In order to activate this mode, push the service/valet button 25 times.

Step-by-step and two-step authentication modes

In the **step-by-step authentication mode**, two authentication stages should be undergone before driving:

1. The key fob or the smartphone used as a key fob should be present within the coverage of the device. Engine start will be permitted even in the case the engine start prohibition mode is used in the system. However, the IGLA ALARM will stop the engine at the attempt to move if the PIN-code has not been entered.
2. In order to finish the process of authentication, the PIN-code should be entered using the standard buttons of the car.

This mode is disabled by default. In the case it should be activated, press the service/valet button 23 times.



In order to choose the step-by-step or two-step authentication modes, authentication in the system should be undergone by the key fobs or by the smartphone.

Two-step authentication mode is used for providing maximal safety to the car. In this mode engine start will be permitted only in the case both of the conditions, introduced below, have been abided:

- The key fob or the smartphone used as a key fob is within the coverage of the device.
- The PIN-code has been entered using the standard buttons of the car.

This mode is disabled by default. In the case it should be activated, press the service/valet button 24 times.

Anti-hijack mode

This mode prevents the car from being hijacked in the case of mugging. It blocks the engine of the car after it has already gone some distance.



This option is turned off by default. Turn it on if it is required.

In order to activate or deactivate this option, press the service/valet button 16 or 17 times respectively according to the table of the options.

Super AntiHiJack mode

This mode allows you to protect the driver and the car, in the moment when IGLA ALARM is disarmed.



To activate “Super AntiHiJack” mode, enable the corresponding option. By default, the “Super AntiHiJack” option is disabled in the system.

To enable the Super AntiHiJack mode, use 30 presses of the service buttons in accordance with the options table, to disable - 17 presses.

Or use computer program AuthorFlasher v3.9 →

Alternative service/valet button

The new service/valet button may be added apart from one set by default from the list of buttons available for programming. In order to do it, undergo the next steps:

1. Turn on the ignition without starting the engine.
2. Enter the valid PIN-code to sign in.
3. Press the accelerator* to the floor and keep it pressed.
4. Repeat the previously entered PIN-code. The device will be transferred into the PIN-code change mode. The indication signals will be being repeated once in three seconds. Release the accelerator.¹

¹ A different operative organ is used in some of the cars instead of the accelerator (see the official service website of the company <https://service.author-alarm.com/>).




If the current PIN-code encompasses slight press of the accelerator, enter the PIN-code once again and press the accelerator to the floor.

5. **Assign a new service/valet button:** press the button that is meant to be used as a service/valet button 21 times. Each pressing should be confirmed by the indication signal. The time gap between pressings should not exceed two seconds. There is no difference between «long» and «short» pushes. Successful adding of the service/valet button will be confirmed by 21 indication signal. If three or four indication signals have been provided, this connotes that the number of pushes is different from 21 and the service/valet button has not been added. Turn off the ignition and repeat points 1-5.
6. Turn off the ignition.



The alternative service/valet button does not cancel the service/valet button set by default. Both of the set buttons might be used as a service/valet button ever after.

In order to delete the alternative service/valet button, assign the service/valet button set by default as service/valet button. The same algorithm should be used.



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