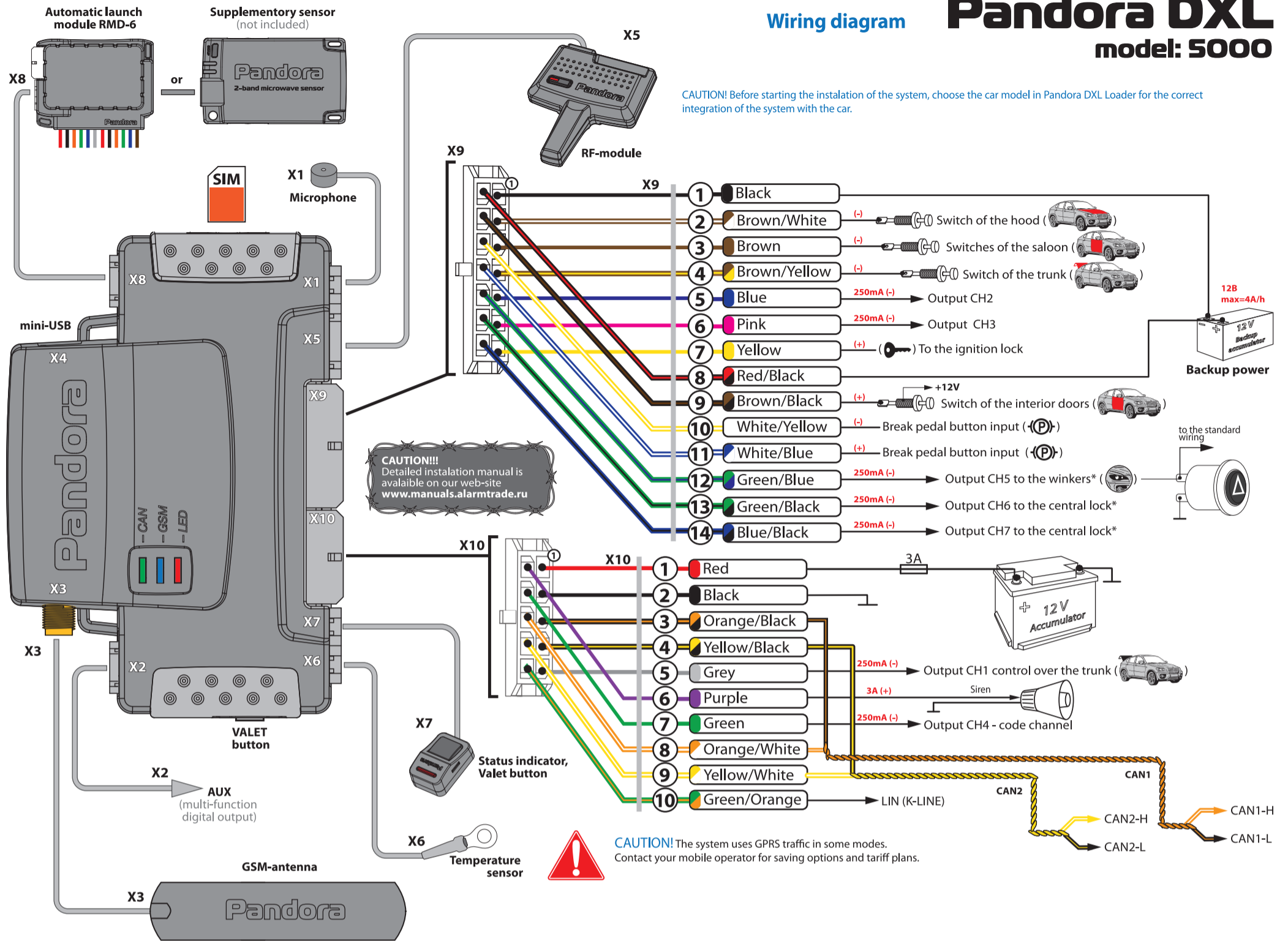


Pandora DXL model: 5000

Wiring diagram

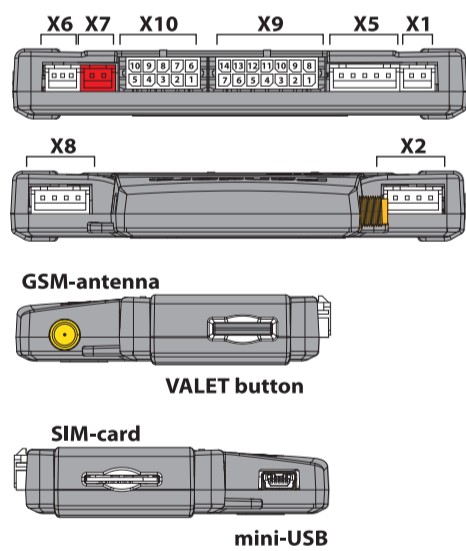
CAUTION! Before starting the installation of the system, choose the car model in Pandora DXL Loader for the correct integration of the system with the car.



CAUTION!!! Detailed installation manual is available on our web-site www.manuals.alartrade.ru

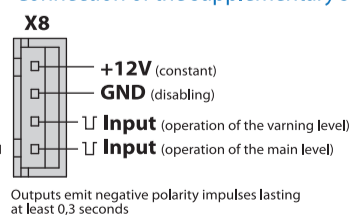
CAUTION! The system uses GPRS traffic in some modes. Contact your mobile operator for saving options and tariff plans.

Base unit sockets

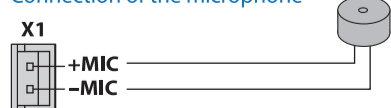


- X1 - Microphone socket
- X2 - Supplementary sensor socket (AUX)
- X3 - GSM-antenna socket
- X4 - Mini-USB socket for programming, software updates and reading the extended events history
- X5 - RF-module socket
- X6 - Socket for the temperature sensor of the engine
- X7 - LED and Valet button sockets
- X8 - Socket for the RMD module or supplementary double-level sensor
- X9 - Main socket
- X10 - Supplementary socket

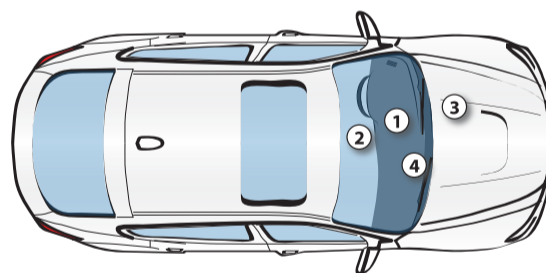
Connection of the supplementary sensor



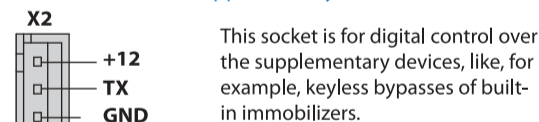
Connection of the microphone



System's blocks layout

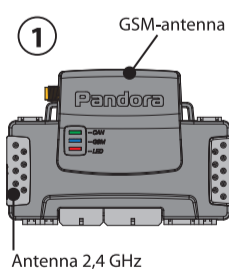


Connection of the supplementary AUX devices



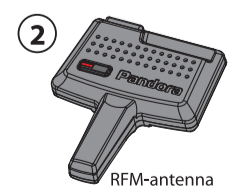
This socket is for digital control over the supplementary devices, like, for example, keyless bypasses of built-in immobilizers.

Base unit



It is recommended to install the base unit sockets down under front panel or near the dashboard. Provide rigid fastening to the car body or to the details rigidly attached to the car body. Built-in GSM- and 2,4 GHz antennas should not be shield by the metal elements of the car design. In case if the fitting position does not allow the stable reception of the cellular network signal, you will have to use an external GSM-antenna.

RF-module



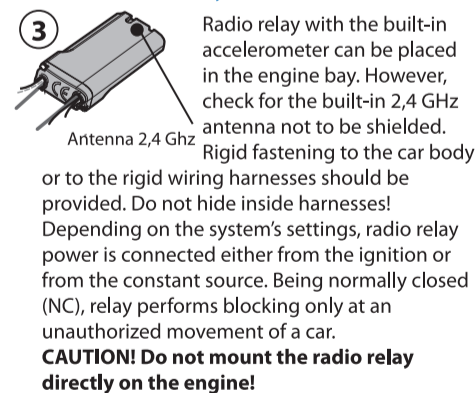
It is recommended to place the RF-module on the windshield. The distance from the metal parts of the car body to the RFM- module should not be less than 7 sm. Please note that built-in windshield heating can reduce the range of the radio channel.

Set-up of the system using the computer

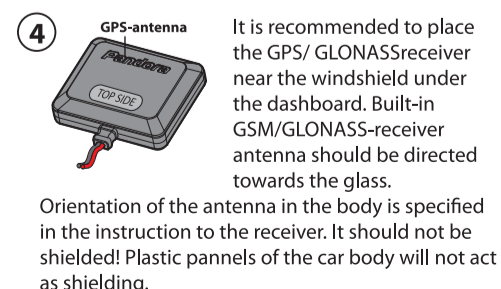


- More than 500 programmable parameters available:
- Main settings
 - Automatic launch settings
 - Inputs and outputs
 - Programmable channels - CAN settings
 - GSM settings
 - GPS settings
 - Radio relay settings
 - GPRS settings

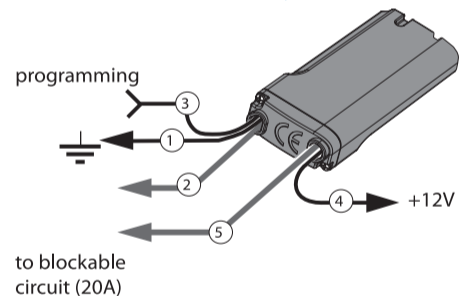
Lockout radio relay RR 100



GSM/GLONASS - receiver NAV-03



Connection of the radio relay RR 100



Wire 1 (Black) of the locking relay ("Ground") should be attached to the car body or to the reliable conductor connected to the body or any regular power user. This wire should be connected first during the installation.

Wire 3 (Black) is necessary for programming of the radio relay.

Wire 4 (Black), depending on the system settings, should be attached to the constant power of +12V or to the wire where +12V appears when the ignition is turned on and is not lost until the ignition is switched off.

Wire 2 (Black) and **5** (Black) should be attached to the circuit that needs blocking. The commutation current should not be higher than 10A, and never exceed 20A for more than 1 minute (during commutation of circuits without inductive load component). Locking relay contacts are connected to the locking wires as normally closed (NC).

General installation requirements

- Base unit, RF-module, GSM-antenna and supplementary sensors should be installed only in the car interior.
- Rigidly secure every element of the system, as regular usage of the car can create conditions that may damage not only the functionality of car alarm, but also the standard systems of the car, including the in-movement security elements.
- The system installation is better to be done with disabled connectors and disconnected battery minus clamp.
- The installation of CAN-bus wires should be conducted only when the power of the base unit is switched off.
- The installation of the car alarm can be conducted by twisting the wires together or soldering with lead-tin solder and subsequent isolation of the attachment area.
- When connecting the wires together, pay attention to the diameter and the materials of the wires. When they are different, bring the electrochemical potentials to the minimum difference. Thoroughly isolate such combination. Moisture should not be entering the area of contact, as it will increase the electrochemical corrosion of the conductors (important for circuits with heavy current flows).
- It is recommended to place commutable connections as high as possible in chambers so that the water condensate that forms on the wire does not form water drops on the connection area.
- When commutating the wires, leave a little slack, allowing sufficient sag to prevent the destruction of the compounds from vibration when driving.
- Do not install the wires in places where their isolation can be damaged by attrition.
- Place the electronic components of the system higher and sockets down, to avoid the condensate leaking in the PCB and electronic components through the sockets gaps.
- Mounting the base unit of the alarm, ensure its rigid attachment to the car body for the proper operation of the shock sensor.
- It is recommended to shorten all unused outputs of the system during the installation, reliably insulate and fixate them in order to avoid the occasional touch with the car body or

- by a series red and green flashes of indicator;
- Enter all four numbers again;
- If you was able to double-enter the security code without any mistakes, the indicator will produce a series of red and green flashes and a new code will be recorded, the system will return to the programming mode;
- In case of the incorrect code input the indicator will flash red and the system will return to a programming mode;
- After the input is complete, the indicator goes out, the system awaits a new programming level input.

Level I-3- Recording the idle turns speed to the system's memory

At this programming level the idle turns speed of the engine is recorded. Upon entering this level you need to switch the ignition on and start the engine (it should be warmed-up and the idle speed should match a normal rate of the idle speed fixed for the pre-heated engine). Wait until the stable idle speed is reached (it takes approx. 30 seconds). Then press Valet button once. Successful recording of the speed will be confirmed with 1 beep. After recording to the memory the ignition should be switched off. While on this programming level, you can start and stop the engine many times. Exit this mode by pressing the Valet button.

Level I-4 - Resetting to factory settings

To reset to the factory settings you have to enter this programming level, than press and hold the Valet button for 2 seconds until siren sounds. Once the Valet button is released, the status indicator will confirm a successful reset to factory settings with a long red flash.

Level I-5, I-6, I-7 - programming of the radio relay #1, #2, #3

1. Connect the radio-relay wire "1" to the "Ground".
2. Select the required programming menu level I-5, I-6, I-7 for the radio-relay #1, #2, #3 respectively.

any the other conductors.
Programming system, PIN-code entry

System settings can be changed using the PC, which can be connected using a standard mini-USB cable and DXL Loader (special software). You can download the most recent version of the software from our web-site: www.alartrade.ru

To enter the programming menu:

1. Disarming the system, switch off the ignition;
2. Connect the base unit of the system to a computer via mini-USB cable (socket X4)
3. Enter the service PIN-code by pressing Valet button.

Factory pre-set PIN-code is 1-1-1-1

IT'S FORBIDDEN to erase the protective layer on the owner's card!

In case of customer complaint about the erased protective layer of the owner's card with the individual PIN-code, re-installation of the system is made on the account of the installer.

4. Enter the first digit of the service code by Valet button (press the button a number of times equal to the initial number, pauses between presses of the button should not exceed 1 second). The system will confirm entry with red flash of the indicator;
5. Enter the second, the third and the fourth digits the same way. After each digit entry, the system must confirm with red flash of the indicator;
6. The system will confirm the correct code with red and green flashes of the indicator. If the code is entered incorrectly, a long red indicator's flash will indicate it. A new entry can be attempted only after 5 seconds;

Programming menu accessible using VALET button

- Enter desired level using VALET button (press the button a number of times equal to the desired level number, pauses between presses of the button should not exceed 1 second). The system will confirm entry with red flashes of the indicator and short siren sounds, and will enter the desired level.
- Enter desired sub-level using VALET button (press the button a number of times equal to the desired sub-level number, pauses between presses of the button should not exceed 1 second). The system will

3. Feed the power (+12V) to the radio-relay pins "3" and "4". Siren will confirm the recording of the radio-relay in the memory with 1 beep.
4. After the successful recording of the radio-relay, disable and insulate pin 3, connect pin 4 to the constant power +12V, or to the wire, where +12V appear when you switch on the ignition (according to the system's settings).

Level I-8 - PS/GLONASS- receiver Pandora NAV-03 recording

Enter this programming level; feed the power to the GPS/GLONASS-receiver Pandora NAV-03. If the recording has been done successfully, this will be confirmed by the siren's signal.

Level I-9 - Mode of software replacement via 2,4 GHz channel

To change/update the software using a wireless interface 2,4 GHz, enter the ninth programming level, the LED will blink with red color. Upon entering this level the system will wait for 2 minutes to be connected to the computer over a wireless interface. If the time limit has elapsed, and the system's connection with the computer did not happen, the system will exit this programming level.

Level I-10 - Settings change mode via wireless interface of 2,4 GHz

To change the system's settings using a wireless interface of 2,4 GHz, enter the tenth programming level, the LED will blink with green color. After entering this level the system will wait for 2 minutes to be connected to the computer over a wireless interface. If the time limit has elapsed, and the system's connection with the computer did not happen, the system will exit this programming level.

Level I-11 - Programming of the code immobilizer

1. Choose the button to set as the security code button for the code immobilizer. To do this, press your chosen button, LED should flash orange. If there are no orange flashes when you press the button, this means that the button is not detected by the system, choose another button. After choosing the button to set as the security

confirm entry with green flashes of the indicator and short siren sounds, and will enter the desired sub-level. If the number entered was incorrect (bigger than the number of sub-levels on a level), than after a series of green and red flashes, the system will await a new level and sub-level input;

- Current state of the sub-level will be displayed on the status indicator - in green or red light. State can be changed with emote buttons 1 or 2: 1 button - enable (green light), 2 button - disable (red light).
- To save settings press VALET button, the system will record current state and move to the next sub-level (at this time any other sub-level can be entered using VALET button). New sub-level number is communicated with green flashes of the indicator. If there is no more sub-levels, indicator will flash with red and green lights, and the system will await a new level input;
- To leave the programming mode and save settings, the ignition should be switched on during any of the listed stages.

Level I-1 - Recording remotes and immobilizer tags into the system's memory.

Level I-2 - Changing the factory pre-set service PIN-code.

Level I-3 - Recording the idle turns speed to the system's memory.

Level I-4 - Resetting to the factory settings

Level I-5, I-6, I-7 - programming of the radio relay #1, #2, #3

Level I-8 - GPS/GLONASS-receiver Pandora NAV-03 recording

Level I-9 - Mode of software replacement via 2,4 GHz channel

Level I-10 - Settings changing mode via wireless interface of 2,4 GHz

Level I-11 - Programming of the code immobilizer

Level I-12 - Software update of the GPS/ GLONASS-receiver Pandora NAV-03

Level I-13, I-14 - reserve

code button for the code immobilizer, press Valet button. The security system will remember the last pressed button (which was pressed before Valet button), as the button to enter the PIN-code of the code immobilizer and will await input of the 1st digit of the PIN-code.

2. Program PIN-code deactivation for the code immobilizer. Enter the first digit pressing on the chosen button (pause between presses should not be more than 1 second). The base unit will confirm input by red flash of the LED.

Enter the second (third, fourth) digit pressing the chosen button. The base unit will confirm input by red flash of the LED.

After entering the necessary amount of digits (to 4) press Valet button. The system will confirm the recording of a security code with long red flash of the LED and will wait for PIN-code confirmation.

3. Confirm the PIN-code deactivation for the code immobilizer.

Repeat the set of all PIN-code digits same as in the operation of programming code and press Valet button. If the input is correct, the system will confirm recording with red and green flashes of the LED, will remember PIN-code and will go to the standby mode for programming level input. If the confirmation is incorrect the LED will blink with long red flash, after that the system will go back to selecting the programming level.

Level I-15 - Emergency shutdown of the immobilizer and AntiHiJack

To switch off the immobilizer and AntiHiJack enter the 15th programming level, LED will flash green color. Enter the first digit of the security code via Valet button (press the button a number of times equal to the digit you want to enter; pause between pressing should not be more than 1 second.) The system will confirm the input by red flash of the LED. Same way enter the second, the third and the fourth digits. After the correct input of the security code, the system will emit two shot beeps; LED will light with red color. To switch on the immobilizer and AntiHiJack, enter the 15th programming level, LED will flash red color. Press Valet button one time, LED will light with green color, the siren will sound one short beep.

Level I-15 - Emergency shutdown of the immobilizer and AntiHiJack

Changing settings using Valet button

Level I-1 Recording remotes and immobilizer tags into the system's memory.

Enter the first level of programming. The remote units are recorded one by one. To record the remote unit press three buttons together and hold them for 1 second (until a short beep of the remote unit with LCD; until the LED will not go out in the additional remote unit), then release the buttons. If the recording was successful, the remote unit with LCD will emit two short beeps, the siren of the base unit will emit one beep, after that you can move to the recording of the next remote unit. The time of the pause between the recordings of the remote units is limited (20 seconds). The immobilizer tag units are recorded one by one at the same level of programming. To record the immobilizer remote unit you need to press and hold the button on the immobilizer tag unit for 3 seconds. If the recording was successful the siren of the base unit will emit one beep, after that you can move to the recording of the next remote unit.

Caution! If the siren is controlled by hood module RHM-02, the siren will not sound when a remote unit is recorded!

To finish the recording the remote units into the system, Valet button should be pressed again, the status LED will produce a series of red and green flashes; than switch on and off the ignition to leave the programming mode.

Level I-2 - Changing the factory pre-set service PIN-code

- Status LED is not lit. Press Valet button the number of times equal to the first digit of the security code. Each pressing of the «VALET» button is followed by an orange flash of the indicator. The interval between the presses should not exceed 1 second;
- The input will be confirmed by red flash of indicator;
- Enter the other numbers in the same manner;
- The input of the fourth number will be confirmed

Setup of the system parameters using a computer

The system allows to change all settings and update software of the base unit via the interface cable or the radio channel using the computer. It does not matter whether base unit is installed into a vehicle or not. Software reads the current settings and allows changing them.

In case, if the base unit isn't installed in the vehicle, while programming it should be powered via mini-USB cable (if programming via radio channel, the power to the base unit should be provided by any means). To program using a computer connected via cable, you need a standard mini-USB cable, the computer with Windows XP/Vista/Win7 and a special piece of software named «DXL Loader». Program can be downloaded from the official company web-site www.alartrade.ru.

In preparation to the programming following stages should be followed:

- Connect the mini-USB cable;
- Run the software;
- Enter the programming settings mode by entering the service PIN-code on the base unit.

Factory pre-set PIN-code is 1-1-1-1

In case if the settings are being accessed via the radio interface of 2,4 GHz, you need to use the special programming unit 2,4 GHz - RMP-03.

Setup parameters of the system via the wireless interface 2,4 GHz

To enter the setup mode of the wireless interface, you need to press and hold for 3 seconds both buttons 2 and 3 (3 short beeps will sound in the remote unit), at the same time LED will be blinking with green color. After entering this level, the system will wait for 2 minutes to be connected to the computer via the wireless interface. If the time limit has elapsed, and the system's connection with the computer did not happen, the system will exit this programming level.