



Pandora

Pandora would like to thank you for choosing our Pandora Elite service and security system

Pandora is a brand of Russian Experimental Engineering Factory, a full production cycle electronics R&D facility. We design and produce car service-security systems for more than 10 years and have reached a considerable success on Russian and post-communist markets - biggest security system markets in the world. Our systems are made to withstand severe weather conditions and criminal situation of northern Eurasia.

Pandora Elite is a premium-class telemetric service and security system, designed for B, C, J, M, S class cars (European classification). Elegant and advanced technical design and unique ergonomic interaction algorithms allow enhancing your car with fantastic set of intuitive and useful functions. With Pandora Elite your car will have numerous new features for both security and service. Elegant and advanced technical design and unique ergonomic interaction algorithms that are used in Pandora Professional allow enhancing your car with fantastic set of intuitive and useful functions. Your car controls and monitoring options at your fingertips.



WARNING!

IT IS STRONGLY ADVISED TO HAVE PROFESSIONAL CAR MECHANIC INSTALLING THE SYSTEM. CERTIFIED INSTALLERS ARE RARE OUTSIDE RUSSIA, BUT ANY CAR ELECTRONICS INSTALLER SHOULD BE ABLE TO INSTALL PANDORA ELITE USING INSTALLATION SCHEME IN THIS MANUAL AND ALARMSTUDIO SOFTWARE. MOST FEATURES ARE HIGHLY DEPENDENT ON COMPETENT INSTALLATION. OUR SYSTEMS ARE THOROUGHLY TESTED FOR QUALITY, SO IF A FEATURE FAILS TO PRODUCE EXPECTED RESULTS, MOST LIKELY THE PROBLEM IS IN IMPROPER INSTALLATION.

It is essential for systems functioning that you read and understand instructions in this manual. Note that all radio devices are subject to interference, which could affect proper performance.

This device has limited external factors resistance. It should not be subjected to water beyond occasional splatter, or operated in temperatures outside -40 to +80 °C range.

IMPORTANT! Note that this manual describes remote and manual functions for the most part. Functionality of the system is vast and would require a book-sized manual to fully describe. Instead we use a handy software named AlarmStudio that functions as both programming tool and an extended installation & functionality manual. It requires Windows and can be downloaded at pandorainfo.com

Exclusive features of Pandora Elite

- Online service **pandora-on.com** allows monitoring, controlling and adjusting parameters of your car using any computer or smartphone with Internet connection.
- SOS emergency button on the remote and automatic notification system will be of help in any situation that threatens your personal security. It is not just the car we aim to protect.
- Interior microphone that can be accessed from your phone.
- Infinite event history with coordinates, precise times and full information about car's condition.
- **Pandora Pro** and **Pandora Online** mobile apps to control your security system via smartphone and to access online service **pandora-on.com** are available for iOS and Android. You can download Pandora Pro from **AppStore** or Pandora Online from **Google Play** and test them in demo mode.
- Wide range of automatic engine start options: by weekdays, by engine or interior temperature, by battery voltage to keep it charged, etc.

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General information

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System features

Main LCD remote

- Dialog encryption of commands.
- Arming and disarming security system using separate buttons.
- Controls status of 15 independent security zones.
- Vibrating alert.
- 16 sound notifications.
- Automatic LED lighting of the LCD.
- Vibration confirmation of the button press.
- Built-in battery.
- Battery level indicator.
- Current date and time indication.
- Time synchronizes with the base unit for exact time stamp in the event history.
- Engine and interior temperature, voltage indication.
- Separate doors indication (via CAN).
- Prompt remote access to the settings of shock, motion, tilt and supplementary sensors.
- View event history with time and event stamps.
- Automatic control of covering zone and notifications.

Base unit

- Dialog encryption of commands.
- Individual 128-bit encryption key.
- Voice interface for controlling the system using a phone.
- Individual disarming PIN-code.
- Event history stored in the base unit with date, time and coordinates.
- RC blocking relay (2,4 GHz, frequency, up to 3 units can be connected).
- Built-in integral accelerometer for determining motion and shocks with adaptive processing algorithm and sensitivity controls via the remote.
- Integrated GSM interface.
- Built-in 2.4 GHz aerial.
- Monitoring of on-board voltage.
- Distinct sensors for the front hood and the trunk.
- Advanced process of sensor data reading, eliminating false alarm possibilities.
- Precision measurement of interior and engine temperature, displayed on the remote.

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- Sequential unlocking of the doors.
- Arming when the engine is running.
- Automatic arming.
- Registers delay for interior lighting when arming.
- Hands Free mode for arming/disarming without using a remote.
- Software updates via built-in mini-USB socket.

RF module

- CALL button for calling the driver.

Immobilizer tag

- Dialog encryption of commands.
- Arming/disarming button.
- Individual 128-bit encryption key.
- Built-in LED indicator.
- CR 2032 battery (not shipped with the system).

Car security zones

- car doors perimeter (separate for every door via CAN)
- front hood limit switches
- trunk limit switches
- ignition trigger
- brake pedal button
- triggering of the shock sensor (warning level)
- triggering of the shock sensor (alarm level)
- triggering of the motion sensor
- triggering of the two-level supplementary sensor (warning level)*
- triggering of the two-level supplementary sensor (alarm level)*
- critically low on-board voltage
- marker lights left on notification when arming**.

* Volume sensor is not a part of Pandora Elite service-security system set configuration

** Availability of this function depends on car model

System set

1. Base unit.....	1
2. RF module and cable.....	1
3. Main control remote with LCD.....	1
4. Immobilizer tags.....	2
5. Leather case for immobilizer tags.....	1
6. Blocking radio relay.....	1
7. Main cable.....	1
8. Supplementary cable.....	1
9. Cable with VALET button and three-colored light indicator.....	1
10. Relay automatic start module.....	1
11. Mini-USB cable.....	1
12. Microphone.....	1
13. Fastening kit.....	2
14. User manual.....	1
15. Installation manual (connection scheme).....	1
16. Plastic card with individual secret code.....	1
17. Packaging.....	1

Manufacturer reserves the right to change configuration and construction of the product to improve its technological and operational parameters without notification.

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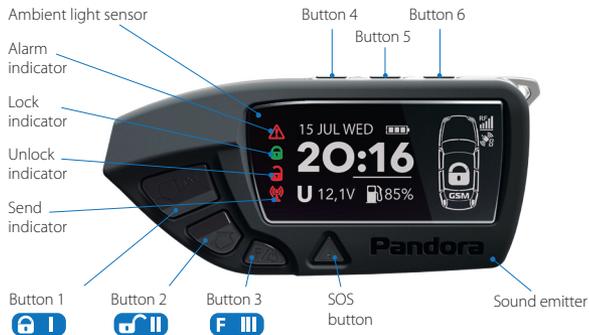
Control remote

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Two-way remote is the main mean to control the system.

For easily distinguishable notifications the remote uses 16 ringtones. Each ringtone matches particular event.

Remote has flashing LED indicators for additional information. Brightness of displayed information can be adjusted automatically by built-in light sensor.



The remote is fully operational when shipped. To switch the remote on, press and hold **F III** button for 3 seconds. «REMOTE ON» ringtone will play. Pressing and holding this button again for 3 seconds will cause the remote to switch off.



WARNING!
ALL CONTROL COMMANDS ARE TRANSMITTED VIA RADIO CHANNEL, FOR MAXIMUM EFFECTIVENESS AND RANGE IT IS RECOMMENDED NOT TO SHIELD AERIAL AREA (SEE PICTURE) WITH FINGERS WHEN USING A REMOTE.

Quick access functions of the main control remote

	System disarmed		System armed
	Engine is running	Engine is stopped	
I (short press)	Lock doors without arming	Arming with sound confirmation	Search mode - car will flash turn signals and sound horn for 5 seconds
I (1 sec.)		Arming without sound confirmation	Search mode - car will flash turn signals without any sounds for 5 seconds
I (2 sec.)	Switch on ignition support		
II (short press)	Unlock doors	Unlock doors	Disarming with sound confirmation
II (1 sec.)		Unlock doors	Disarming without sound confirmation
III (short press)	Switch on LCD lighting		
III (1 sec.)	Switch on/off timer channel (CH1) Unlock trunk (CH1)		
III (2 sec.)	Switch on/off timer channel		
III (3 sec.)	Switch on/off the remote		
button 4 (1 sec.)	Emergency call		
I + II (short press)	PANIC mode		
I + III (short press)	Arming when the engine is running with sound confirmation	Arming in 30 seconds (Hands Free mode) with sound notification	
I + III (1 sec.)	Arming when the engine is running without sound confirmation	Arming in 30 seconds (Hands Free mode) without sound notification	
button 6 (1 sec.)	Request current car status (CHECK command)		
button 6 (2 sec.)	Enter event history		
button 6 (3 sec.)	Force connection to the online service		
button 5 (1 sec.)	Enter settings menu		
button 5 (3 sec.)	Switch on engine preheater		
button 5 (2 sec.)	Switch off engine preheater		

LED indicator signals

Red Alarm indicator

- Flashes occasionally and sounds short signal once a minute until any button is pressed, after the end of any alarm notification.

Green Lock indicator

- Flashes occasionally if there is a connection and the system is armed.

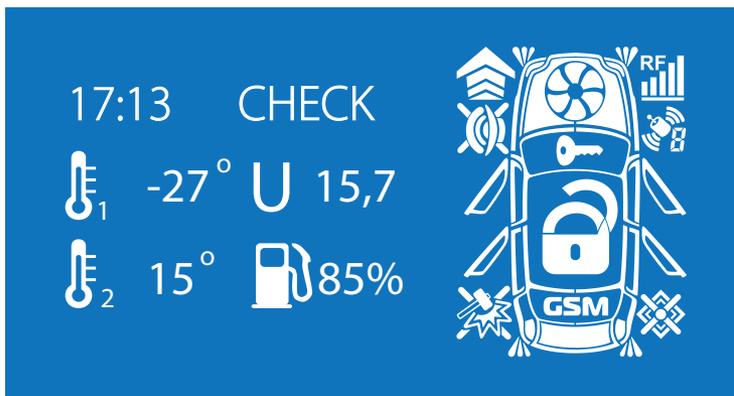
Red Unlock indicator

- Flashes occasionally when the system is armed.

Red Send indicator

- Flashes occasionally when there is no connection.

Icons of remote



-
-  Flashes if there is no connection to the base unit.

 -  Flashes when transmits or receives commands.

 -  GSM modem. The icon lights when GSM modem is switched on and the car is in the coverage area of the cellular network. The icon flashes if there is no GSM connection.

 -  GPS receiver. The icon lights when GPS receiver is switched on and if car coordinates are received. The icon flashes if car coordinates cannot be received.

 -  Security mode status (Armed/disarmed).

 -  Shock sensor security zone.
 -  Warning level of the sensor.
 -  Alarm level of the sensor.
 -  Warning level zone monitoring disabled.
 -  Shock sensor monitoring disabled.

 -  Trunk security zone.

 -  Engine operation icon.

 -  Light signalization (using marker lights, turn signals).

 -  Front hood security zone.

 -  Motion sensor security zone.

 -  Silent mode of the system.
 -  warning signals of the system disabled.
 -  all sound signals disabled.

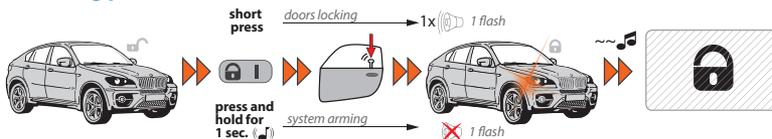
 -  Ignition, ignition security zone.

14.  Door security zone. Separate for each door.

15.  Supplementary sensor security zone.

-  Warning level of the sensor.
-  Alarm level of the sensor.
-  Warning level zone monitoring disabled.
-  Supplementary sensor monitoring disabled.

Arming procedure



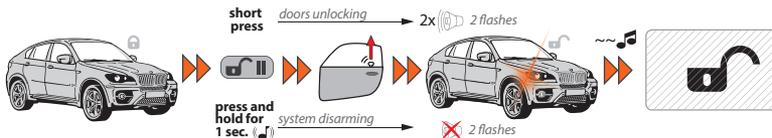
Arming the system allows monitoring of all security zones, locks the doors and blocks the engine.

To arm the system when the engine is stopped, shortly press  button on the remote. The siren will sound and the turn signals will flash once. The remote will play 'Arming' ringtone and security mode status icon (the lock) will change to: .

For arming without sound confirmation press  for more than 1 second. If doors, front hood or trunk were open when arming, the siren will sound 4 beeps instead of 1, turn signals will flash 4 times, remote will play 'Warning!' ringtone and will show troubled zone. This zone sensor will be disabled at that moment. Sensor will be armed again in 15 seconds after the zone was set right.

   - Arming using a phone. 10* - arming without sound confirmation.

Disarming procedure



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To disarm the system, shortly press  button on the remote. You will hear 2 beeps and will see 2 flashes of the turn signals. The remote will play 'Disarming' ringtone and security mode status icon will change to: 

For disarming without sound confirmation press  button for more than 1 second.

If there were new alarming events during the time system was armed, siren will sound 4 times, and turn signals will flash 4 times, the remote will sound 'Warning' ringtone and will indicate zones triggered. Detailed event history can be accessed by using CHECK button.

When disarming, two-step mode of unlocking the doors can be programmed. First  press will disarm the system and unlock driver's door while second press will unlock all the other doors.

  * - Disarming using a phone. 00* - disarming without sound confirmation

Unlocking the trunk



To independently unlock the trunk, no matter if the system is armed or not, press  button and hold it for 1 second.

If the system is armed when this action is performed, the trunk will be disarmed, shock and supplementary sensors of the trunk will be disabled. All the other security zones will remain armed.

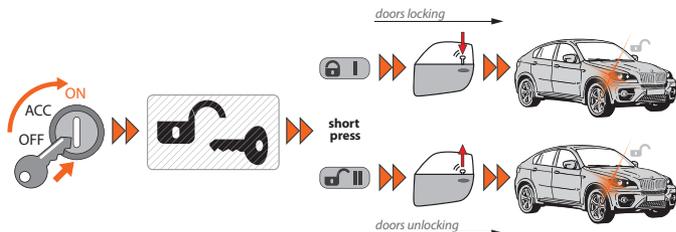
If in 15 seconds after using 'Unlock trunk' command, the trunk was not opened, the system will lock it back, enable sensors and arm trunk security zone. This will be indicated with 1 flash of the turn signals.

If the trunk was open when the system is armed and if it was not closed in 3 minutes, the system will send warning message to the remote without triggering the siren.

Locking/unlocking doors when the engine is running

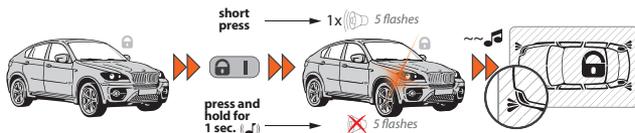
Locking and unlocking doors when the engine is running can be forced using a remote without arming and when the ignition is switched on. To do this, shortly press  when the ignition is switched on: doors will be unlocked. Pressing of  button will unlock the doors in the same way.

* In some cars additional connection may be needed



A mode of locking doors at the start of movement and unlocking them when the ignition is switched off is available. In 5 seconds after ignition was switched on, doors will be locked, and unlocked when the ignition was switched off (programmable). If any door was open after the ignition was switched on, automatic locking will be disabled to prevent locking the keys inside the car.

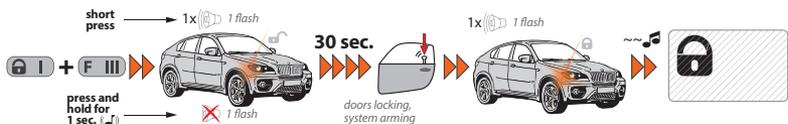
Car search function



To easily find your car on a massive parking, shortly press when the car is armed. The system will sound the siren and flash turn signals 5 times in a row.

To search for car without sound confirmation, press and hold button for more than 1 second.

Delayed arming (Hands Free mode)



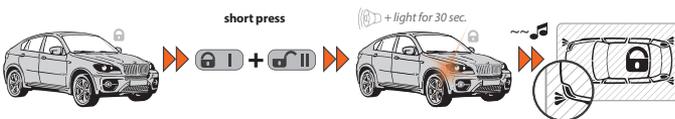
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If when leaving the car you cannot arm it using a remote (you have your hands full), you can use **delayed arming**.

To activate this mode, shortly press **G I** and **F III** simultaneously. Siren will sound and turn signals will flash once, indicating that the mode is triggered. Remote LCD will display **AUTO** icon, LED indicator will be lit red. In 30 seconds the door will be locked and the system will be armed. It will be indicated with 1 siren signal and 1 flash of the turn signals.

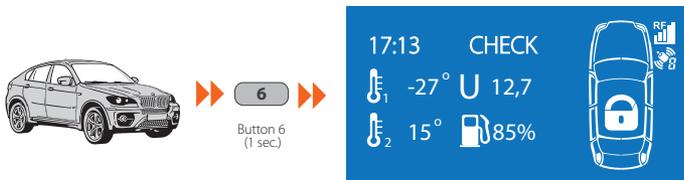
To activate this mode without sound confirmation, press and hold both **G I** and **F III** for more than 1 second. To cancel delayed arming when it is triggered, simply press **G II**.

PANIC mode



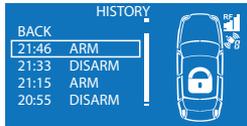
If your car or you are in danger and you want to draw attention to your car, you could use **PANIC mode**. In this mode the siren will sound and turn signals will flash repeatedly. To trigger PANIC mode, press **G I** and **G II** simultaneously. To switch it off, press either **G I** or **G II**.

CHECK mode, monitoring car parameters



To receive information about engine and interior temperature, on-board voltage and fuel level (depends on car model), press button 6 and hold it for 1 second. To exit this mode, shortly press F; otherwise it will be exited automatically in 10 seconds.

Event history



To access event history into the system's memory, press and hold button 6 for 2 second. Navigate several last events using button 6 (forward) and button 4 (back). Events are displayed by showing time when event happended and flashing corresponding indicators. To exit this mode, press button F, otherwise the mode will be exited in 60 seconds.

    - Listen to the extended event history using a phone.



WARNING!
ENGINE TEMPERATURE INDICATION IS AVAILABLE ONLY WHEN TEMPERATURE SENSOR IS CONNECTED. SENSOR AVAILABILITY DEPENDS ON THE SYSTEM SET. FUEL LEVEL INDICATION IS AVAILABLE ONLY WHEN THE SENSOR IS CONNECTED OR THERE IS INFORMATION IN CAN-BUS.

Remote and automatic engine start

The system allows for **remote engine start** using remote engine start command or **automatic engine start** using preconfigured automatic engine start function. Remote start can be used to heat engine and interior, charge battery or cool the inerior with air conditioning.

Remote and automatic start can only be used when the system is armed.

If the car has manual transmission, remote or automatic start will only occur if **programmed neutral procedure** was followed when the car was arming.

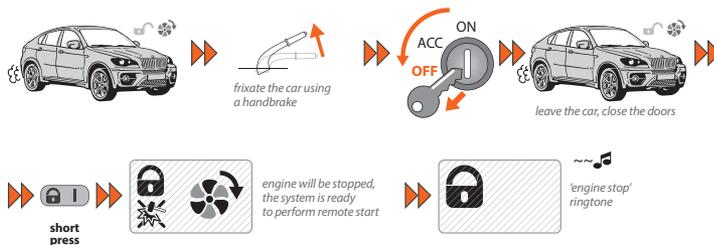
Remote and automatic engine start on automatic transmission cars will only occur, if transmission selector lever was left in a 'P' position.

When using remote and automatic engine start functions, make sure that the car is secured with handbrake or some other means of fixating the car on a parking position.

While system is in remote and automatic start mode, it keeps performing all security functions save for shock sensor that will be disabled. To compensate, motion sensor sensitivity, responsiveness

and range will be increased. If any security zone will be triggered, the engine will be immediately stopped and alarm mode will be entered. Herewith all engine blocking will be activated.

Programmable neutral procedure



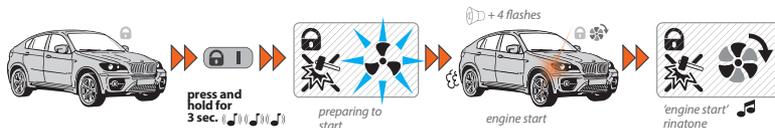
If you are planning to use remote and automatic engine start on a car with manual transmission, before arming you will need to perform following actions:

1. When the engine is running, fixate the car with the handbrake.
2. Turn the key in the ignition lock to the **OFF** position (**the engine should still be running**) and take it out of the lock.
3. Leave the car, close the doors.
4. Press  button to arm the car and lock the doors. On LCD remote the engine operation icon  will be spinning and security mode status icon  will light.
5. The engine will be stopped. Now the system is ready to perform remote and automatic engine start.

Remote engine start

If the system is prepared for remote start, to execute it, press and hold  for 3 seconds. Sound signal will confirm the command, LCD will show crossed out shock sensor icon  and flashing engine operation icon  signifying preparation to the engine start. In a few seconds the engine will be started, the remote will play '**Engine start**' ringtone and show spinning engine operation icon .

Engine operation duration depends on system settings - either heating time or threshold temperature for engine stop.



 1 2 3 * - Remote engine start using a phone.

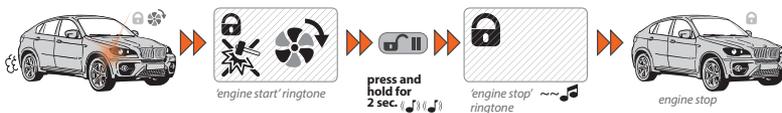
If the engine was started using remote or automatic start (via timer of clock) 123* phone menu command will extend its operation period by 10 minutes.



WARNING!
ONLY ENABLE REMOTE START IF YOUR LOCAL LEGISLATION ALLOWS DRIVERLESS CARS TO HAVE WORKING ENGINE.

Remote engine stop

To remotely stop the engine while it performs heating, press and hold  for 2 or more seconds. The engine will be immediately stopped and it will be confirmed by remote playing 'Engine stop' ringtone and engine operation icon fading .



The remote will give notification 1 minute before designated engine stop:  icon will flash and 'Engine stop in 1 minute' ringtone will play every 10 seconds.

If the engine was started using remote or automatic start, remote engine start command will extend its operation period by 10 minutes.

This procedure can be repeated multiple times.

 3 2 1 * - Remote engine stop using a phone.

System settings menu

Main system parameters and settings can be changed using LCD remote.

To enter settings menu, press and hold button 5 for 1 second. LCD will display **Main Menu** and a list of available functions.

To navigate levels, shortly press buttons 4 and 6, to enter sub-menu, shortly press button 5.

To proceed to the higher menu level, select the top line of the list and shortly press button 5.

To exit any level of the menu without saving parameters, shortly press F button.

To save current settings, use buttons 4 and 6 to select **SAVE** in the list and shortly press button 5 to confirm.

Main settings menu

After holding button 5 for 1 second, LCD will display the list of available functions:

Button 5 (1 sec.) >>>>>>

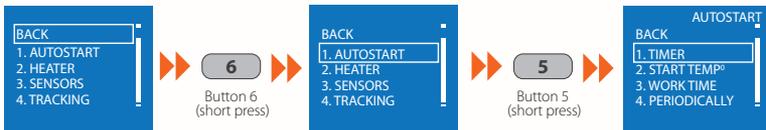


1. **AUTOSTART** - automatic engine start settings
2. **HEATER** - engine preheater controls
3. **SENSORS** - settings of the sensors
4. **TRACKING** - switching on/off tracking (available for Pandora Professional)
5. **SIREN** - options of siren sound signals
6. **HANDS FREE** - Hands Free mode settings
7. **CHANNELS** - timer channels adjustment
8. **GPS RECEIVER** - switching on/off GPS/GLONASS receiver*
9. **GSM MODEM** - switching on/off GSM modem
10. **VALET MODE** - maintenance/valet mode
11. **SETTINGS** - settings of the remote
12. **INFORMATION** - information about the current firmware version

* It is not shipped with the system

Automatic engine start settings

The system allows to set modes of automatic engine start and stop. Synchronized real-time clock in the remote and the base unit and other autonomous system settings allow to implement set of conditions of engine start and operation.

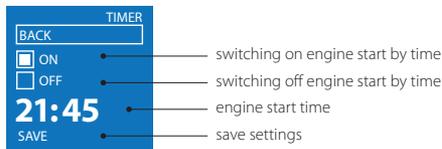


To enter automatic engine start settings menu, select **AUTOSTART** option in the main menu using buttons 4 and 6, and select it with button 5 short press. Following functions will be displayed:

1. **ENABLE** - switching on/off automatic engine start
2. **TIMER** - time settings for automatic engine start
3. **START TEMP°** - temperature settings for automatic engine start
4. **WORK TIME** - max engine operation time settings for automatic engine start
5. **PERIODICALLY** - settings of periodic engine starts
6. **STOP TEMP°** - engine stop temperature settings

Time settings for automatic engine start

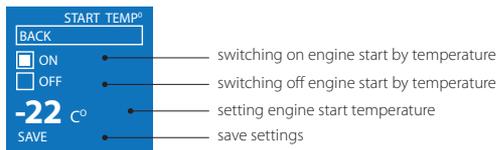
To set time for automatic engine start, select **TIMER** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu >>AUTOSTART>>TIMER**

Temperature settings for automatic engine start

To set temperature for automatic engine start, select **START TEMP**⁰ menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu >>AUTOSTART>>START TEMP**

Max engine operation time settings for automatic engine start

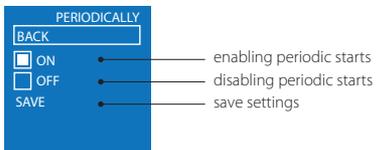
To set max engine operation time for automatic engine start, select **WORK TIME** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu >>1.Autostart >> WORK TIME**

Settings of periodic engine starts

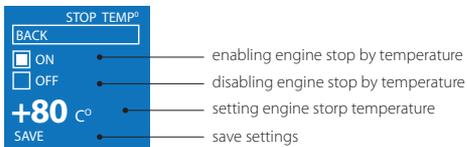
To configure periodic engine starts, select **PERIODICALLY** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>1.AUTOSTART>> PERIODICALLY**

Engine stop temperature settings

To set engine stop temperature, select **STOP TEMP** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>1.AUTOSTART>> STOP TEMP**

Engine preheater controls

To configure engine preheater, select **HEATER** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:

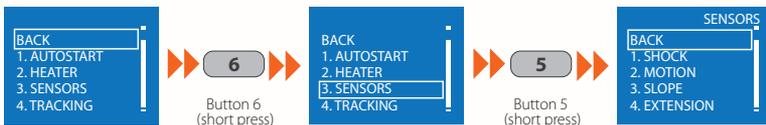


Full path to this settings menu: **Main Menu>>2. HEATER**

Settings of the sensors

The system allows setting sensor sensitivity via the remote.

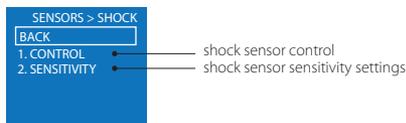
To enter sensor settings menu select **SENSORS** option in the main menu using buttons 4 and 6, and select it with button 5 short press. Following functions will be displayed:



1. **SHOCK** - shock sensor settings
2. **MOTION** - motion sensor settings
3. **TILT** - tilt sensor settings
4. **EXTENSION** - supplementary sensor settings

Shock sensor settings

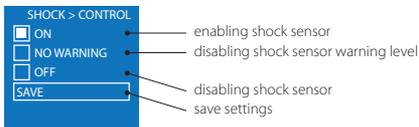
The system allows full control over built-in shock sensor. To configure shock sensor settings, select **SHOCK** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>1.SENSORS>> SHOCK**

Shock sensor settings. Operation mode controls

To disable warning zone or disable shock sensor completely, select **CONTROL** option in the **SHOCK** menu using navigation buttons (4 and 6) and confirm it with button 5 short press.

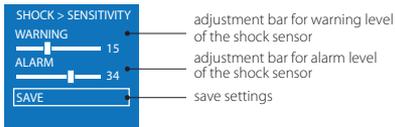


Full path to this settings menu: **Main Menu>>1.SENSORS>>1.SHOCK>>1.CONTROL**

Shock sensor settings. Sensitivity settings

To adjust shock sensor sensitivity select **SENSITIVITY** option in the **SHOCK** menu using navigation buttons (4 and 6) and confirm it with button 5 short press.

To enter and exit adjustment bar use button 5, adjust parameters on the bars using buttons 4 (lower sensitivity) and 6 (raise sensitivity). Sensitivity can be adjusted between 0 (lowest sensitivity) and 50 (highest sensitivity).



Full path to this settings menu: **Main Menu>>1.SENSORS>>1.SHOCK>>2.SENSITIVITY**

Motion sensor settings

To adjust built-in motion sensor sensitivity select **MOTION** option in the **SENSORS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press.

To enter and exit adjustment bar, use button 5; adjust parameters on the bars using buttons 4 (lower sensitivity) and 6 (raise sensitivity). Sensitivity can be adjusted between 0 (disable motion sensor) and 50 (highest sensitivity).

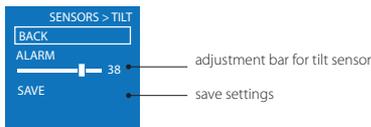


Full path to this settings menu: **Main Menu**>>**1.SENSORS**>>**2.MOTION**

Tilt sensor settings

To adjust built-in tilt sensor sensitivity, select **TILT** option in the **SENSORS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press.

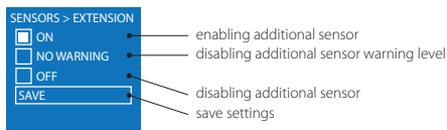
To enter and exit adjustment bar, use button 5; adjust parameters on the bars using buttons 4 (lower sensitivity) and 6 (raise sensitivity). Sensitivity can be adjusted between 0 (disable tilt sensor) and 50 (highest sensitivity).



Full path to this settings menu: **Main Menu**>>**1.SENSORS**>>**3.TILT**

Additional sensor settings

The system allows full control over additional sensor. To configure its settings, select **EXTENSION** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu**>>**1.SENSORS**>> **4.EXTENSION**

Additional sensor settings. Operation mode controls

To disable warning zone or additional sensor completely, select **CONTROL** option in the **EXTENSION** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:

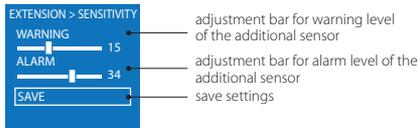


Full path to this settings menu: **Main Menu**>>**1.SENSORS**>>**4. EXTENSION.**>> **1.CONTROL**

Additional sensor settings. Sensitivity settings

To adjust additional sensor sensitivity, select **SENSITIVITY** option in the **EXTENSION** menu using navigation buttons (4 and 6) and confirm it with button 5 short press.

To enter and exit adjustment bar, use button 5; adjust parameters on the bars using buttons 4 (lower sensitivity) and 6 (raise sensitivity). Sensitivity can be adjusted between 0 (lowest sensitivity) and 50 (highest sensitivity).



Full path to this settings menu: **Main Menu**>>**1.SENSORS**>>**4.EXTENSION**>> **2.SENSITIVITY**



WARNING!
ADDITIONAL SENSOR SENSITIVITY ADJUSTMENT IS AVAILABLE WHEN USING MI-
CROWAVE SENSORS PANDORA VS.

Options of siren sound signals

To configure siren sounds, select **SIREN** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>5.SIREN**

Hands Free mode settings

The system allows for Hands Free arming and disarming. When the owner with 2,4 GHz radio tag is in range, the system will be disarmed and armed again when the owner moves further away from the car.

To select one of Hands Free modes, select **HANDS FREE** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



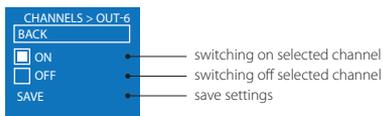
Full path to this settings menu: **Main Menu>>6. HANDS FREE**

Timer channels adjustment

The system allows switching on timer channels via the remote. Timer channels should be programmed separately using a special piece of software - **Pandora AlarmStudio**.

AlarmStudio can be downloaded from the official company web-site pandorainfo.com

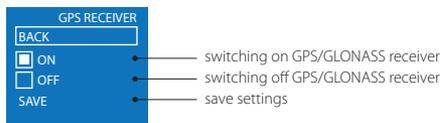
To remotely switch on one of the timer channels, select corresponding line (channel number) in the **CHANNELS** list menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>7.CHANNELS>>CH1-CH10**

Switching on/off GPS/GLONASS receiver

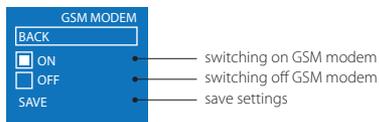
To control GPS/GLONASS receiver, select **GPS RECEIVER** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>8.GPS RECEIVER**

Switching on/off GSM modem

To control GSM modem, select **GSM MODEM** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:

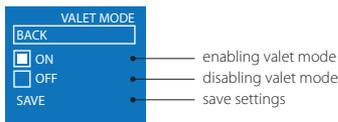


Full path to this settings menu: **Main Menu>>9. GSM MODEM**

Maintenance/valet mode

It is recommended to put system into maintenance mode (valet mode) before handing it to the car service or valet parking. When this mode is switched on, security system stops interfering with built-in electronics and disables all functions to ease maintenance or parking. Moreover, you will not have to leave the remote to the valet or the mechanic. It is not possible to disable valet mode without using the remote. This feature is implemented to prevent recording additional remotes during maintenance without the owner's knowing.

To enable Valet mode when the engine is stopped and immobilizer tag is within range, select **VALET MODE** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:

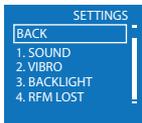


Lit green status indicator on the remote when the engine is stopped will signify active valet mode. Valet mode can only be disabled when the engine is stopped.

Full path to this settings menu: **Main Menu>>10.VALET MODE.**

Settings of the remote

To enter remote settings, select **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press. Available functions will be displayed:



- 1. SOUND** - sound signal settings
- 2. VIBRO** - vibration settings
- 3. BACKLIGHT** - LCD backlight brightness settings

- 4. **RFM LOST** - radio channel control settings
- 5. **P-ON NOTIFY**- adjusting notifications from **pandora-on.com**
- 6. **LANGUAGE** - menu language settings (RUSSIAN/ENGLISH)
- 7. **WIDGETS** - widget settings

Full path to this settings menu: **Main Menu>>11.SETTINGS**

Sound signal settings of the remote

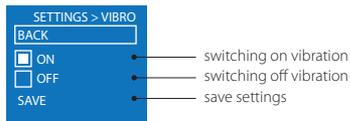
To enter remote sound signal settings, select **SOUND** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>11.SETTINGS>>1.SOUND**

Vibration settings of the remote

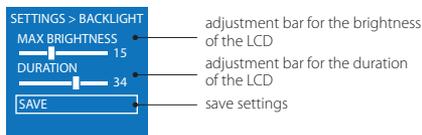
To enter remote's vibration settings, select **VIBRO** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>11.SETTINGS>>2.VIBRO**

LCD backlight brightness settings of the remote

To enter remote LCD backlight brightness settings, select **BACKLIGHT** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



To enter and exit adjustment bar use button 5, adjust parameters on the bars using buttons 4 (lower brightness) and 6 (raise brightness). Brightness can be adjusted between 0 (disable backlight) and 50 (highest brightness).

Full path to this settings menu: **Main Menu>>11.SETTINGS>>3.BACKLIGHT**

Radio channel control settings

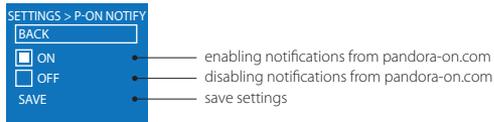
To adjust radio channel control, select **RFM LOST** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>11.SETTINGS>>4.RFM LOST**

Adjusting notifications from pandora-on.com

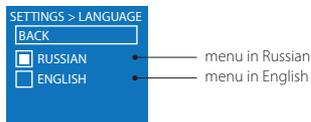
To adjust notifications from **pandora-on.com**, select **P-ON NOTIFY** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>11.SETTINGS>>5.P-ON NOTIFY**

Menu language settings

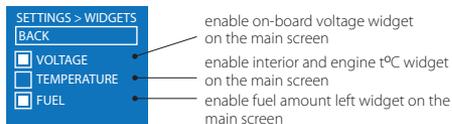
To set language, select **LANGUAGE** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>11.SETTINGS>>6.LANGUAGE**

Widget settings

To display widgets with indormation about car state on the main screen, select **WIDGETS** option in the **SETTINGS** menu using navigation buttons (4 and 6) and confirm it with button 5 short press:



Full path to this settings menu: **Main Menu>>11.SETTINGS>>7.WIDGETS**

Checking the number of recorded remotes

Number of recorded remotes and radio tags can be checked every time the ignition is switched on when disarmed. Number of orange and green LED flashes will indicate number of remotes and tags recorded correspondingly.

Number of recorded remotes and radio tags can also be checked by taking off and putting back on battery terminal. The system will sound a set of signals, corresponding to the number of recorded remotes.

Charging the remote

LCD remote works on accumulator battery that should be charged from time to time via micro-USB cable. Period of operation without recharging depends on conditions and operation rate. On average, one full charge should last 20-30 days.



Micro-USB port
for charging and
software updates

3

**Owner's personal safety,
immobilizer
and SOS button**

 **Pandora**

Pandora Elite security system is an efficient measure of anti-theft security and to prevent hijacking. This system is shipped with 2 immobilizer radio tags. To increase security, 1 to 3 radio relays can be installed on the car. Immobilizer functions can be switched on and off via a phone or using **Pandora AlarmStudio** on a computer.

'Proximity detection of the owner' programmable algorithm that detects either RF tag is approaching or distancing from the car increases precision of Hands Free function (automatic arming/dismarming on removing/approaching). Immobilizer mode adjustment can be set via the remote.

Immobilizer mode

This mode is enabled by default, use a phone to disable this mode (see 'Change settings via phone' section).

When the ignition is being switched on, the system base unit performs a search for immobilizer tags in radio zone. If no tags were detected, LCD remote will play '**No tag found**' ringtone. If no radio tags were detected when the ignition is switched on, the system will block the engine with all radio relays that were programmed into the system. Engine blocking will only occur when radio relay motion sensor detects movement of the car. If additional blocks were installed, they will lock doors immediately, before the car starts moving.

Antihijack mode

This mode is disabled by default, use a phone to enable this mode (see 'Change settings via phone' section). **Antihijack mode** helps to prevent aggressive seizure of the car using delayed engine blocking on door opening.

Every time when the engine is running on opening/closing a door, immobilizer requests response from a remote using unique algorithm. After a door was opened while the engine is running, if the system cannot detect a radio tag, the engine will be stopped after 1 minute (general safety requirement). '**Engine blocking warning**' ringtone will play before blocking.

If engine blocking is performed via radio relay after warning signals are over or on new attempts to start the engine, immobilizer will only allow the engine to start when the car is not moving, and will block it again if it starts movement. Immobilizer will be in active mode in no more than 2 seconds after the ignition is switched on. If the car starts moving, the immobilizer will block the engine for 15 seconds. When registered tag appears in the radio zone, blocking will be canceled and the system will return to the normal operation.

If the engine is blocked via analog relay, engine operation will be stopped after warning signals are over, until a registered tag appears in the radio zone or on registering movement - depending on the settings.

Emergency immobilizer and Antihijack shutdown

To disable immobilizer and Antihijack in case of emergency, enter programming level 15 (see 'Control over system in case of emergency, entering PIN-code'). LED indicator will be lit green. Enter the first digit of PIN-code using VALET button (press the button a number of times equal to the first digit, pauses between presses should not exceed 1 second). The system will confirm entering with red LED flash. Similarly enter second, third and fourth digits. The system will confirm correct PIN-code with 2 beeps of the siren and with red flash of LED indicator.

To activate immobilizer and Antihijack functions, enter programming level 15. LED indicator will be lit red. Press VALET button once, the indicator will be lit green and the siren will sound once.

Replacing immobilizer tag battery

After receiving a text message that immobilizer tag battery is low on the main owner's phone number, battery should be replaced soon. Battery type is CR2032.

Carefully open the cover of the tag's battery compartment. Extract discharged battery and insert a new one keeping in mind the correct polarity. Replacing a battery will not cause a loss of tag code information, as authorization data is stored in the non-volatile memory of the MCU.

Carefully close the cover of the tag's battery compartment. All elements of construction should be rigidly locked in places. If it is so, the tag can be operated as usually.

Immobilizer code using original car controls

Code immobilizer is a function that allows disarming and controlling timer channels using original car controls (button, lever or pedal). To enter immobilizer code, programmed button (lever, pedal) should be pressed a number of times equal the digit of the code. Pauses between presses should not exceed 1 second. Pauses more than 1 second will be interpreted as the start of next digit input (can be a max of 4 digits 1 to 9).

If immobilizer code was correct, engine blocking will be disabled or a programmed timer channel will be active (depending on the settings).



PANIC (SOS) button

In case your life or health are threatened, press SOS button and Pandora Elite will automatically perform voice call and send text notification with car coordinates to all programmed emergency numbers.

During emergency voice call, person being called can access car's interior microphone (**007***).

Automatic emergency notifications

If a car with Pandora Elite telemetric system gets into car accident, automatic notifications will be sent in form of text messages/voice calls with the car coordinates.

All emergency events are recorded on a personal page of online service **pandora-on.com**, displaying date, time and coordinates (GPS/GLONASS receiver is required).

Emergency numbers settings

Emergency phone numbers can be set in the system settings using **Pandora AlarmStudio**. If you do not program emergency phone numbers, voice calls and text messages will be sent to the owner additional numbers.

4

Pandora and phone





Phone notifications

If any of security zones was triggered the system will immediately notify the owner by all available means: it will send alarm notification to the remote, will call and text owner's mobile phone, and will save information about the event in **pandora-on.com** online service.

Security zones triggered notifications

- Left/right, front/rear door security zone triggered;
- Trunk security zone triggered;
- Front hood security zone triggered;
- Brake pedal security zone triggered;
- Ignition security zone triggered;
- Warning level of the shock sensor security zone triggered;
- Shock sensor security zone triggered;
- Warning level of the additional sensor security zone triggered;
- Additional sensor security zone triggered;
- Motion sensor security zone triggered;
- Tilt sensor security zone triggered;
- Voltage outage security zone triggered.

Receiving voice information via phone

Call the system and listen to the status report.

1. System security status: armed/disarmed
2. If the alarm was triggered, the system will communicate the cause, number of events, time and date (in case events occurred more than 24 hours away).
3. Temperature sensors readings.
4. On-board voltage (to the nearest tenth of a volt).
5. GSM connection signal level.
6. Notification if the remote engine start is programmed, and on what conditions (temperature, time, periodic start).
7. Current time and date.
8. Allows control command input.
9. Voice help in navigating control commands.

Control over system via phone

Call the system's phone number. When it answers, enter command code.

#	Return to previous menu/state	6 6 6 *	Enable engine blocking
*	Repeat the last message	9 9 9 *	Disable engine blocking
1 *	Arming	2 5 8 *	System information
0 *	Disarming	9 9 8 *	Disable immobilizer and Antihijack
1 0 *	Silent arming	8 8 8 *	Enable immobilizer tag and Antihijack
0 0 *	Silent disarming	2 2 2 *	Disable Hands Free mode
9 *	Help	2 2 3 *	Enable Hands Free arming
0 9 *	Event history	2 2 4 *	Enable Hands Free disarming
1 5 *	Tow truck mode	2 2 5 *	Enable Hands Free disarming only with autom. start
0 0 7 *	Enable microphone	7 8 9 *	Enable automatic engine start
1 0 0 *	Request GSM account balance	9 8 7 *	Disable automatic engine start
1 2 3 *	Start the engine/prolong heating	2 9 7 *	Call ended
3 2 1 *	Stop the engine	5 5 1 *	Enable valet mode (PIN-code is required)
3 3 3 *	Switch on add. function using F via CAN	5 5 2 *	Disable valet mode (PIN-code is required)
5 0 0 *	Request current coordinates	1 5 6 *	Switch on preheater
4 5 6 *	Switch on additional channel	6 5 1 *	Switch off preheater
6 5 4 *	Switch off additional channel	1 5 9 *	Opening trunk



WARNING!

IF THE CALL IS NOT MADE FROM THE OWNER'S NUMBER, GUEST PIN-CODE SHOULD BE ENTERED. FACTORY SET GUEST PIN-CODE IS 1-2-3-4. AFTER THE SYSTEM IS INSTALLED, PLEASE CHANGE FACTORY SET PIN-CODE.

Control via speed dial DTMF commands

For example: To have simple access to engine start function, create a new contact in the contact list of your phone, name it 'Engine start', for instance, and add the number in the following format: +XXXXXXXXXXXX, 123*, 297*, where:

'+XXXXXXXXXXXX' - the system's phone number,

'-' - pause is a feature of the phone (can be displayed as the 'P', see the instructions of the phone),

'123*' - remote engine start DTMF command,

'297*' - end call DTMF command.



Contact can be added as a speed dial to any of the free button.
To have simple access to engine start function a phone other than the main owner's phone, create contact in the following format: +XXXXXXXXXXXX,1234,123*,297*, where:

'1234' - guest PIN-code.

Enable/Disable maintenance/valet mode

1. Call system's number. Wait for answer.
2. To enable maintenance/valet mode, dial 'Enable maintenance/valet mode' DTMF command **551*** (engine must be running, radio tag on the 2,4 GHz should be in range if immobilizer/Antihijack mode is active).
3. Enter individual PIN-code that is located on the owner's plastic card.
4. To disable maintenance/valet mode, dial **552*** DTMF command.

Voice help

The system has voice help menu. During voice call to the system, dial **9*** and listen to the information about system control commands. To end session, hang up the phone.

Repeat the last message

To repeat any message, press * during a voice call to the system.

Arming/disarming

1. Call the system's number. Wait for answer.
2. Dial **1*** to arm or **0*** to disarm.
For silent arming dial **10*** or **00*** for silent disarming.
3. The system will confirm: 'Arming/Disarming'.

To end session, hang up the phone.

Enabling/disabling automatic engine start

Pandora system has function of promptly disabling automatic engine start.

1. Call the system's number. Wait for answer.

2. Dial **987*** to disable all automatic engine starts or **789*** to enable all automatic engine starts.
3. The system will confirm execution.

To end session, hang up the phone.

Automatics starts can be enabled again either by dialing **789*** (all previous settings will remain intact).

Locking/unlocking the engine

You can block car's engine using any phone. The engine will remain blocked until phone command 'Unlock engine' will be sent. This blocking cannot be disabled using a remote.

1. Call the system's number and wait for answer.
2. Dial **666*** to enable engine blocking or **999*** to disable engine blocking (after dialing, you will need to enter individual PIN-code that is located on the owner's plastic card).

Request current coordinates

1. Call the system's number. Wait for answer.
2. Dial **500***.
3. The system will confirm: 'Current coordinate sent via text message' and will send text message with coordinates and a web link to a map to your phone.

To end session, hang up the phone.

Switching on interior microphone

1. Call the system's number. Wait for answer.
2. Dial **007***.
3. The system will switch interior microphone on.

To end session, hang up the phone.

Request GSM account balance

1. Call the system's number. Wait for answer.
2. Dial **100***.
3. The system will confirm: 'Balance information sent via text message' and will send text message

Pandora

with account balance information to your phone.

To end session, hang up the phone.

Tow truck mode

This mode is intended for car transportation with preservation of arming function. Tow truck mode can be activated only when armed, it will be deactivated automatically when disarming.

1. Call the system's number. If the system is in PANIC mode, receive emergency call. Wait for answer.
2. Dial **15*** to enable Tow truck mode, the system will disable motion, shock and tilt sensors.
3. To disable this mode, disarm the system.

To end session, hang up the phone.

Similarly any other system command can be entered.

Changing core settings via phone

To enter settings programming mode:

Option 1. Disarm, call the system's number, wait for answer, then press and hold  button on LCD remote for 3 seconds. The system will switch into settings programming mode.

Option 2. Disarm, call the system's number, wait for answer, switch ignition on for 1-3 seconds then off. The system will switch into settings programming mode.



WARNING!
THE CAR SHOULD BE DISARMED BEFORE ADJUSTING VIA A PHONE.

- 1 * ***
Phone number settings
- 1 * Owner's number -> #
 - 2 * Additional owner's number -> #
 - 3 * Second additional owner's number -> #
 - 4 * Account balance inquiry number -> #
 - 5 * System's number -> «#»

- 2 * ***
Settings of the voice calls
- 1 * Voice calls on alarm
 - 2 * Voice calls on triggering warning level of the sensors
 - 3 * Voice calls on engine start
 - 4 * Voice calls on engine stop
 - 5 * Voice calls on restoring GSM connection
 - 6 * Voice calls on disarming
 - 7 * Voice calls on entering programming mode
 - 8 * Voice calls when radio relay connection is lost
 - 9 * Voice calls when on-board voltage is low
 - 0 * Voice calls on accident

- 3 * ***
Settings of the text messages
- 1 * Text messages on alarm
 - 2 * Text messages on triggering warning level of the sensors
 - 3 * Text messages on engine start
 - 4 * Text messages on engine stop
 - 5 * Text messages on restoring GSM connection
 - 6 * Text messages on disarming
 - 7 * Text messages on entering programming mode
 - 8 * Text messages when radio relay connection is lost
 - 9 * Text messages when on-board voltage is low
 - 0 * Text messages on accident

- 4 * ***
Immobilizer settings
- 1 * Immobilizer (on/off)
 - 2 * Antihijack

- 5 * ***
Additional settings
- 1 * Changing guest PIN-code
 - 2 * Entering as guest
 - 3 * Remote blocking
 - 4 * Switch on interior microphone
 - 5 * Set threshold voltage for sending text message

- 6 * ***
Automatic engine start settings
- 1 * By time
 - 2 * Set up time for automatic start
 - 3 * By voltage
 - 4 * Set up voltage for automatic start
 - 5 * By temperature
 - 6 * Set up temperature for automatic start
 - 7 * By period
 - 8 * Set up period for automatic start

- 7 * ***
Sensor sensitivity settings
- 1 * Settings of the warning level of the shock sensor sensitivity
 - 2 * Settings of the alarm level of the shock sensor sensitivity
 - 3 * Settings of the motion sensor sensitivity
 - 4 * Settings of the tilt sensor sensitivity
 - 5 * Settings of the warning level of the additional sensor sensitivity
 - 6 * Settings of the alarm level of the additional sensor sensitivity

- 8 * ***
Settings of saving mode
- 1 * GSM connection
 - 2 * Money saving mode of the GSM connection
 - 3 * Voice calls in roaming service

- 9 * ***
Current time and date settings
- 1 * Set up date
 - 2 * Set up time

5

**Online information service
pandora-on.com and mobile
apps**

 **Pandora**

Registration

Visit **pandora-on.com** website and register, following the instructions.

System login

After completing of the registration process, you can login to online service via computer's web browser or via special mobile apps for the Android (Pandora Online) and iOS (Pandora Pro).

Mobile apps

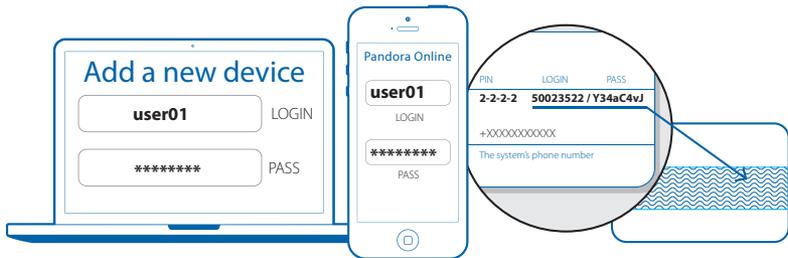
These apps are free and available through your device's app store (AppStore, Google Play). To access the app, use the login data received from the service at the registration stage.

Adding a car to the online service

Internet service **pandora-on.com** can support simultaneously several telemetry systems, installed on various cars (private car park).

To add a telemetry system (car) to the service, press 'Add car' button and go through the process of adding, following the instructions.

To add a car, individual owner's card with registration information is needed (shipped with the system).



Event history

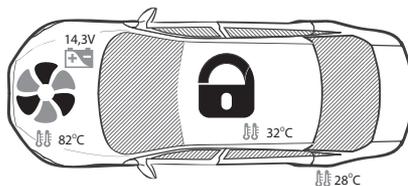
Event history holds more than 100 different types of events that can happen to the system. Event history in online service starts with system's production and is available to the owner at any time from any device with Internet connection (Pandora Elite has limited number of events in the history).

Every event is saved with date, time, coordinates (GPS/GLONASS receiver is required) and status of all control zones and sensors at the moment the event has occurred.

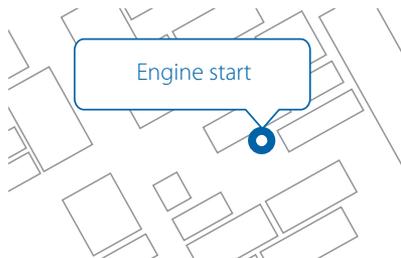
Event history	
18 of January	
 09:00	Arming 165 Fleet St, London EC4A 2DY, UK 09:00
 08:35	Disarming 218 st Johns street, London EC1V 4AT, UK 08:35
 08:24	Engine start 218 st Johns street, London EC1V 4AT, UK 08:24
17 of January	
 18:34	Arming 218 st Johns street, London EC1V 4AT, UK 18:34 <small>pandora-on</small>
 18:00	Disarming 165 Fleet St, London EC4A 2DY, UK 18:00 <small>auto</small>
 17:50	Engine start 165 Fleet St, London EC4A 2DY, UK 17:50 <small>time</small>
 09:00	Arming 165 Fleet St, London EC4A 2DY, UK 09:00

08:24 Engine start

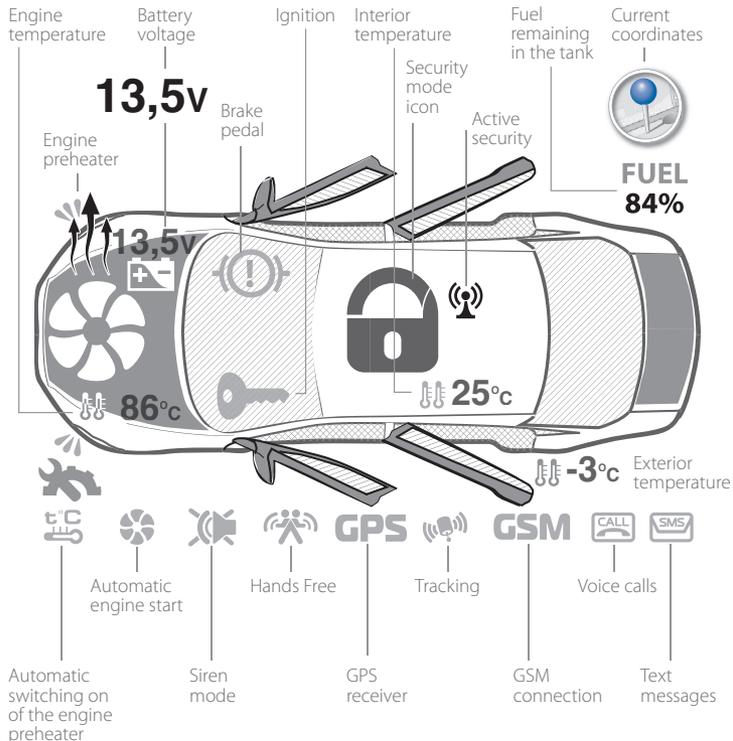
18 of January by command via online service



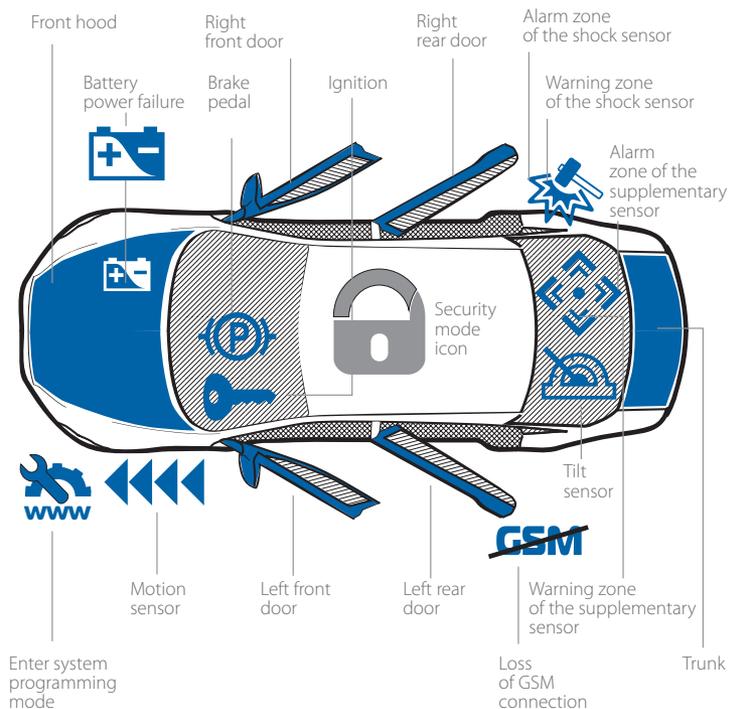
Fuel: 30%



System status information



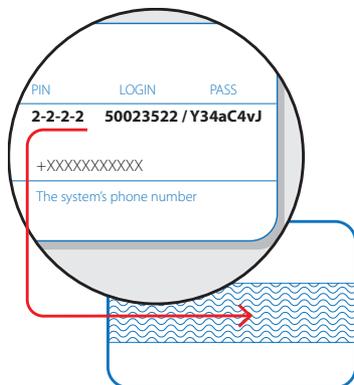
Security and warning zones



6

Additional information





Control over system in case of emergency, entering individual PIN-code

Use a phone to deactivate the system quickly. To disarm the system via a phone, call the system's number. When it answers, dial command **0***. If the call is not made from the owner's number, guest PIN-code should be entered. Factory set guest PIN-code is **1-2-3-4**. To switch off immobilizer RF tag/ Antihi-jack mode, dial command **998*** (after dialing, enter individual PIN-code that is located on the owner's plastic card). If the system cannot be deactivated via a phone, apply emergency disarming/switching off immobilizer RF tag using VALET button. In case you cannot disarm the system using a remote, phone or online service, owner's individual PIN-code can be used. Individual PIN-code is written on the owner's plastic card under protective layer. Erase the protective layer and use VALET button to input the PIN-code.



WARNING!
MAKE SURE THAT PROTECTIVE LAYER ON THE OWNER'S PLASTIC CARD IS INTACT AFTER THE INSTALLATION OF THE SYSTEM. PLASTIC CARD HOLDS INDIVIDUAL PIN-CODE AND ONLINE SERVICE ACCESS INFORMATION.

1. Using VALET button, input the first digit of the code (press the button a number of times, equal to the first digit; pauses between presses should not exceed 1 second). The system will confirm with red LED indicator flash.

2. Similarly input second, third and fourth digit. Every input will be confirmed with red LED flash.

3. The system will confirm correct PIN-code with red and green flashes of LED indicator. If the input was incorrect, it will be indicated with long red flash. New input can be attempted in 5 seconds.

Switching off immobilizer and Antihijack

1. Using VALET button, enter service PIN-code. To input digits, shortly press VALET button (each pressing should not exceed 1 second for every input), pauses between presses should not exceed 1 or 2 seconds. Factory preset PIN-code is **1-1-1-1** (can be changed by user). Entering will be look as follow: 1 press, pause of 2 seconds, 1 press, pause of 2 seconds, 1 press, pause of 2 seconds, 1 press.
2. Press VALET button 15 times, each pressing should not exceed 1 second.
3. When the system proceeds to the desired level, enter PIN-code from the personal owner's plastic card in the same manner. If the code is correct, the system will confirm disabling of the function with 2 beeps.
4. To activate immobilizer and Antihijack functions, enter level 15, LED indicator will be lit red. Press VALET button once, LED indicator will confirm activation with green flash, the siren will emit 1 beep.
5. For emergency disarming when the ignition is switched off, press and hold VALET button for 3 seconds, the system will confirm with siren signal. The system will be armed in 30 seconds.

While there is a countdown, LED indicator will be lit red.

Any problem can be solved

Problem	Solution
When pressing button 1 on the LCD remote all icons are lit, when pressing button 2 the numeric indicator will be lit.	The remote is switched off, it needs to be switched on. Press and hold button 3 (F) for 3 seconds.
LCD remote has stopped playing ringtones.	Low battery power. Please, replace the battery (page 31).
Cannot disarm the system using a remote.	Use additional remote or disarm using a phone command (0*). Contact the car service that was installing the system.
LCD remote is vibrating constantly.	Low battery power. Please, replace the battery (page 31).
One minute after the ignition was switched off, 'Signal lost' ringtone plays and LED indicator starts flashing red.	The system reminds you that it is disarmed. Please, arm the system.
The alarm constantly triggers by shock and additional sensor (warning/alarm level), motion and tilt sensor.	The sensitivity is too high. Lower sensor sensitivity (page 26).
System does not send text notifications.	<ol style="list-style-type: none"> 1. Text message service center number is incorrect. The system determines it automatically. However, it should be changed if changing mobile operator of the system. Contact the car service that was installing the system. 2. Text messaging is blocked by the mobile operator. Contact your system's mobile operator.
The system cannot be reached when calling from supplementary owner's number.	When calling the system from any number, safe from main owner's number, guest PIN should be entered. Factory preset PIN is 1-2-3-4 . It can be changed in the settings.
The system cannot determine owner's number.	Some mobile providers use different country code prefixes (e.g. +44 or 0 for UK). Please, use the correct prefixes that your mobile operator uses when programming the system.

Problem	Solution
The system cannot reach owner's supplementary number when alarm is triggered.	Owner's main number has voice mail turned on. Disable it for the system not to get stuck.
Cannot login to the individual page in pandora-on.com online service.	Please, note that login and password are case sensitive. If you have changed the password, you can reset it to the factory value (written on the plastic card) using a link on the login web page.

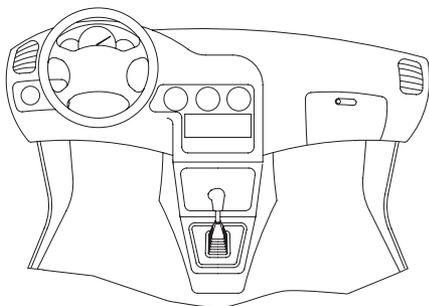
Siren sound and turn light signals

Signal name	Signal description
Alarm mode	Incessant sound and light signals for 30 seconds
PANIC mode	Incessant sound and light signals for 30 seconds
Arming	1 sound and 1 light signal
Disarming	2 sounds and 2 light signals
Sensors triggered signal when disarming	4 sounds and 4 light signals
Sensor malfunction signal when arming	4 sounds and 4 light signals
Sensor warning level triggered	3 sounds and 1 light signals
Car search	5 sounds and 5 light signals

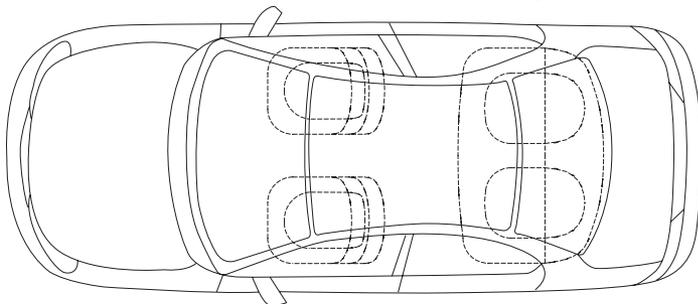


System modules layout

Ask the installer to mark system's modules on the picture provided. This information can be important for diagnostics in case system malfunctions.



- 1 Base unit
- 2 RF-module
- 3 VALET button
- 4 Blocking radio relay
- 5 GSM antenna
- 6 Automatic start module
- 7 GPS-receiver
- 8 Additional sensor



Warranty obligations

Manufacturer guarantees correct operation of the service-security system if exploitation, installation, storage and transportation conditions described in this manual were met.

The system should only be used according to installation scheme and user manuals.

The system is meant to be installed by the professional car electronics installers. We recognize that outside Russia the system can be installed by amateurs – those installations are still a subject of limited warranty. The installer should fill in installation certificate that is included in this manual.

Parts malfunctioning during warranty period on the fault of the manufacturer should be repaired or replaced by the installation center of the manufacturer or by certified service center. List of certified service centers outside Russia can be found on pandorainfo.com

The user loses the right for warranty services in the following cases:

- when warranty period expires;
- if exploitation, installation, storage or transportation conditions were not met;
- if there is mechanical damage of the external parts of the system after it is sold. This includes: fire damage, consequential damage in case of car accident, aggressive liquids and water seeping damage, damage caused by improper use;
 - if the damage was caused with incorrect settings and parameter adjustment;
 - if system devices are replaced with any devices that are not recommended by the manufacturer;
 - if manufacturer sealing is broken;
 - if there is no properly filled warranty card and installation certificate.

Warranty period is 3 years since the moment of purchase, but no more than 3,5 (three and a half) years since the moment of production.

This warranty does not include batteries of the remotes, as they have their own service life time.

Maintenances and repairs of the system with expired warranty period are carried out at the expense of the user on a separate contract between the user and the installer/service center.

Transportation rules

Products should be transported in the original packaging by any means of transport as long as they are protected from mechanical damage and precipitation.

Packaged products should be stored on racks in piles of 6 or less boxes, in enclosed, dry, heated rooms (no less than 1m from heating) which exclude possible interaction with moisture, oil products and damaging environmental factors.



Installation certificate

I, the undersigned _____

Position, name

professional installer, certify that installation of the service-security system, specified below, was carried out by me in accordance with manuals and schemes provided by the manufacturer.

Car specifications:

Car model _____

Type _____

ID number (VIN) _____

Registration number _____

Security system specifications:

Model **Pandora Elite**

Serial number _____

Service center name, full address and installer's stamp _____

Signature _____ / _____ /

Signator

Work accepted _____ / _____ /

Signator

Date « ____ » _____ 20 __ y

Acceptance certificate

Pandora Elite is in conformity with Electromagnetic Compatibility Directive EMC 2004/108/EC and R&TTE Directive 1999/5/EC

Serial number _____

Date of production _____

Responsible person's signature

(stamp)

Packager _____

Signature (personal stamp)

Warranty card

Model **Pandora Elite**

Serial number _____

Date of purchase « ____ » _____ 20__y

Seller's (installer's) stamp

Seller's signature _____

