## Pandora would like to thank you for choosing our service-security system for motorcycles Pandora Mini Moto

**Pandora Mini Moto** is a service-security system built for motorcycles and quads with on-board voltage of 12V.

It is a complex engineering device, which includes unique and modern technological software and hardware solutions. While developing we were using the most up-to-date electronics from world's best manufacturers. The device is built using high-precision mounting and control machinery; thus, we guarantee highest possible quality, reliability and stable technical characteristics for the whole operation period.

The system is built for your convenience: it's ergonomic, reliable, has the highest security and service characteristics, 3 years unconditional warranty and free service and support. We are happy to provide any support we can – feel free to use our online support.

WARNING! IT IS STRONGLY RECOMMENDED TO HAVE A PROFESSIONAL CAR MECHANIC TO INSTALL THE SYSTEM. ANY CAR ELECTRONICS INSTALLER SHOULD BE ABLE TO INSTALL THE SYSTEM USING INSTALLATION SCHEME IN THIS MANUAL AND THE ALARM STUDIO OR PANDORA SPECIALIST SOFTWARE. MOST FEATURES ARE HIGHLY DEPENDENT ON COMPETENT INSTALLATION. OUR SYSTEMS ARE THOROUGHLY TESTED FOR QUALITY, SO IF A FEATURE FAILS TO PRODUCE EXPECTED RESULT, MOST LIKELY THE PROBLEM IS IN IMPROPER INSTALLATION.

This device has limited external factors resistance. It should not be subjected to water beyond occasional splatter.

The base unit is designed to operate at temperatures from -40°C to +85°, the degree of protection is IP54.

The control units (remotes, tags, etc.) are designed to operate at temperatures from -10°C to +40°C, the degree of protection is IP40. See wiring diagram to find information about additional devices and options.

Our web-site: pandorainfo.com
Customer support: support@pandorainfo.com



Product is in conformity with Electromagnetic Compatibility

Directive EMC 2004/108/EC and R&TTE Directive 1999/5/EC

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## **GENERAL INFORMATION**

## **System set**

1.	User and installation manual	1
2.	Owner's personal card	1
3.	Immobiliser tag BT-780	1
4.	External VALET button	1
5.	Base unit with the main cable	1
6.	Blocking relay	1
7.	Magnetic reed sensor	2
8.	Packaging	1
9.	External temperature sensor	1

NOTE! The manufacturer reserves the right to change the system set and construction of the product to improve it's technological and operational parameters without notification.

## **Read before using**

Carefully read this manual before starting installation and using the security-service system. Pay attention to the text marked with  $\blacksquare$ 

THE SECURITY-SERVICE SYSTEM IS A COMPLEX TECHNICAL PRODUCT. SYSTEM INSTALLATION AND CONFIGURATION MUST BE CARRIED OUT ONLY BY A SKILLED PROFESSIONAL.

FEATURES AND SYSTEM MODES, CONTROL OF THE VEHICLE'S ZONES DEPEND ON THE TYPE OF CONNECTION AND SYSTEM SETTINGS, ORIGINAL VEHICLE OPERATION LOGIC AND TRIM.

THE SYSTEM SET INCLUDES THE «OWNER'S PERSONAL CARD». THIS CARD CONTAINS INFORMATION UNDER THE PROTECTIVE LAYER THAT IS INTENDED ONLY FOR THE OWNER OF THE SYSTEM. MAKE SURE THAT THE PROTECTIVE LAYER ON THE OWNER'S PERSONAL CARD IS INTACT AFTER THE INSTALLATION OF THE SYSTEM. READ THE «OWNER'S PERSONAL CARD» SECTION OF THIS MANUAL BEFORE ERASING THE PROTECTIVE LAYER.

WHEN SYSTEM INSTALLATION IS FINISHED:

- CHECK THE SYSTEM OPERATION AND FUNCTIONS WITH A SPECIALIST.
- WE RECOMMEND THAT YOU MARK EACH WORKING FUNCTION WITH A SIGN MIN THE «CONTROL THE SYSTEM» SECTION.
- CHECK THAT THE «INSTALLATION CERTIFICATE» AND «WARRANTY CARD» ARE FILLED OUT. THESE DOCUMENTS MAY BE REQUIRED FOR CONTACTING THE CUSTOMER SUPPORT.
- Ask an installer to mark the layout of the system components on the diagram. This information may be required for diagnostic/configuring or emergency deactivation of the system.
- WE RECOMMEND THAT YOU CHANGE THE DEFAULT VALUE OF THE PIN-CODES.

## **PIN-codes of the system**

## The «Secret PIN-code»

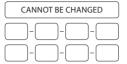
(is written on the «Owner's personal card»)

#### The «Service PIN-code»

(default value is 1-1-1-1)

#### The «Immobiliser PIN-code»

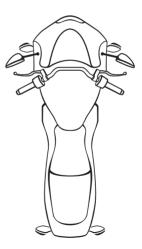
(is used for the Code Immobiliser (pin-to-drive) function)



IT IS RECOMMENDED THAT YOU WILL WRITE DOWN THE CHANGED OR CREATED VALUES OF ALL PIN-CODES. ELIMINATE THIRD-PARTY

## **System modules layout**

- 1 External VALET button
- 2) Base unit
- (4) Circuit being blocked
- (5)
- 6
- 7



## Owner's personal card

Erase the protective layer carefully. Do not use any sharp objects to avoid damaging of a hidden information under the protective layer. The information on the owner's personal card could not be changed or restored in case of damage or lose. Eliminate third-party access to this information.

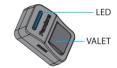
The owner's personal card contains private information under a protective layer:

- PIN (the «Secret PIN-code») is a 4-digit number. This code
  can be used to disarm the system to deactivate Immobiliser
  functions. It can be also used to enter programming mode.
- LOGIN / PASS/ Phone number not used.



#### **External VALET button**

An external VALET button with a three-color status LED indicator is placed inside a vehicle (see the System modules layout). The button is used for programming the system, arming/disarming, activating/deactivating Immobiliser mode.



#### **Base unit**

**2.4GHz radio channel, Bluetooth 5.0 protocol (BT5.0)** - supports additional Bluetooth devices (see the «Additional devices» section), including a mobile phone.

**Built-in 3D accelerometer** is used to detect shock/motion/tilt including 2 separate zones of shock sensor (alarm and warning), the system allows to adjust sensitivity of each zone, to use data from the accelerometer to block the engine on movement.

**Temperature sensors** allow the system to measure temperature of different zones: outside temperature – built-in sensor of the main unit, engine temperature – external temperature sensor. System allows to change default sensor's settings, use the information from the temperature sensor of the DMS-100 BT, program automatic engine start and stop.

**Built-in micro-USB port** – update and configuration of the system using the Pandora Specialist mobile app or Alarm Studio program.

## Information signals of the system

SOUND ()/LIGHT '' SIGNALIZATION					
SIGNALS (sound / light)	DESCRIPTION				
1x <b>■</b> ))/1x <b>½</b>	Arming				
2x <b>■</b> ))/2x <b>½</b> *	Disarming				
1x <b>◄</b> ))	Activating Service mode* Correct input of the «Immobiliser PIN-code»*				
2x <)	Deactivating Service mode*				
3x <b>◄</b> ) (3 times)	A battery in a radio tag is discharged (when turning on the ignition)*				
4x <b>◄</b> ) (4 times)	Absence of the authorization device (when turning on the ignition)*				
5x <b>◄</b> )) /5x <b>☆</b>	Vehicle search				
25 sec <b>◄</b> )) /25 sec <b>☆</b> *	Engine blocking warning in Anti-Hi-Jack mode				
30 sec <b>◄</b> ))/30 sec <b>☆</b> *	Alarm - alarm level of a sensor is triggered, PANIC mode				
3x <b>◄</b> ))/1x <b>☆</b> *	Warning level of a sensor is triggered				
4x <b>◄</b> ))/4x <b>☆</b>	«Sensors were triggered» signal when disarming / «Sensors are triggered» signal when arming				

<sup>\*</sup>ADDITIONAL SETTING MUST BE MADE FOR THE SOUND NOTIFICATION (AN ADDITIONAL LOGIC «BEEPER» MUST BE ASSIGNED TO THE OUTPUT OF THE «SIREN» CHANNEL) - THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

EXTERNAL BUTTON LED INDICATOR SIGNALS						
SIGNALS	DESCRIPTION					
THE SYSTEM IS ARMED						
Short red flashes	System is armed					
Short green flashes	System is armed (authorization devices are in the coverage zone)					
Fast red flashes	Alarm					
	THE SYSTEM IS DISARMED					
Faded	System is disarmed					
Red	System is preparing for the automatic or delayed arming					
Green (when turning on the ignition)	System is in Service mode					
Orange flashes (when turning on the ignition)	Confirms the number of paired remotes, watches, bands					
Green flashes (when turning on the ignition)	Confirms the number of paired radio tags					
Red flash (when turning on the ignition)	Confirms a paired mobile device					
WHEN EN	ITERING THE «SECRET PIN-CODE» OR THE «SERVICE PIN-CODE»					
Orange flash	Confirms a VALET button pressed					
Short red flash	Confirms a digit input PIN-code is incorrect					
Red and green flashes	Confirms correct PIN-code					

#### SYSTEM FUNCTIONS AND MODES

## **Security mode**

The system confirms arming with 1x ) sound and 1x ight signals. When the system is armed, the system monitors security zones with separated warning and alarm level of triggering:

- Warning mode this mode activates when there is a slight impact on the shock sensor or additional senor. It is accompanied with 1x light and 3x ) sound signals;
- Alarm mode this mode activates when a sensor or one of the security zones is triggered. It is 30 sec. | light and 30 sec. | sound signals. The alarm signals can be cancelled by an arming or disarming command.

If one of the security zones is triggered the system:

- · records this event in it's non-volatile memory;
- · activates the alarm or warning mode;
- · informs an owner by all available means;
- · blocks the engine (in accordance with the settings and connections).
- If one of the security zones is opened at the moment of arming, the system will produce 4x )
   sound and 4x ight warning signals.

If one of the security zones fails, the system will forcibly turn off this zone. If a switch triggers more than 9 times in a row, it will be disabled until the next arming. The shock/tilt/motion sensor is temporarily deactivated (15 sec.) if it has been triggered more than 3 times in a row.

The system confirms disarming with 2x ) sound and 2x light signals. The system deactivates engine blocking (if the Immobiliser function and additional blocking are not used). If there were alarm events (except warning level) during the armed period, the system will produce 4x ) sound and 4x light warning signals. The system continues to display all zones when it is disarmed, but the information is not saved in the memory.

FOR EMERGENCY DISARMING SEE «CONTROL THE SYSTEM IN CASE OF EMERGENCY». ENGINE BLOCKING WHILE DRIVING POSES AN INCREASED RISK. WE STRONGLY RECOMMEND THAT YOU BE PARTICULARLY CAREFUL WHEN USING THIS METHOD OF BLOCKING.

## **Security zones**

- · Outside temperature (status)
- · Engine temperature (status)\*
- · Voltage of the on-board circuits (status)
- Additional sensor (security zone alarm and warning level)\*
- Shock sensor (security zone alarm and warning level)
- Tilt sensor (security zone alarm level)
- Motion sensor (security zone alarm level)
- · Turning ignition on (status, security zone alarm level)
- Pressing brake (status, security zone alarm level)
- Pressing clutch (status, security zone alarm level)
- Opening a trunk (status, security zone alarm level)
- CONTROL OF THE STATUSES AND SECURITY ZONES DEPENDS OF THE SYSTEM SETTINGS AND CONNECTIONS.

  \* OPTION

#### Owner authorization devices and functions

#### **Authorization devices**

Authorization devices are Bluetooth devices paired with the system (radio tags, remote controls, mobile phone with the app, band). The devices are used to recognize an owner in the radio coverage zone of the base unit, to arm/disarm the system (Hands Free mode) and to implement Immobiliser or Anti-Hi-lack functions

#### Arming/Disarming by clutch lever

You can arm/disarm the system by a clutch lever if an authorization device is in the coverage zone.

This mode is enabled by default. It is required to make additional connections for this mode

#### Hands Free arming/disarming

This mode is used for automatic arming/disarming  $\overset{\wedge}{\wedge}$  when an owner with an authorization device is distancing  $\overset{\wedge}{\wedge}$  or approaching  $\overset{\wedge}{\wedge}$  a vehicle.

THIS MODE IS DISABLED BY DEFAULT. THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

#### Immobiliser mode

This mode is used to recognize an owner using authorization devices when the system is disarmed.

When turning on the ignition, the base unit performs a search for authorization devices in the radio coverage zone. If there is no any authorization device in the radio coverage zone, the system will block the engine. Engine blocking will occur immediately or at the time a motion sensor detects movement, it depends on the system settings. When an authorization device appears in the coverage zone, the system will exit blocking mode and will continue to work in normal mode.

THIS MODE IS DISABLED BY DEFAULT. THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

FOR EMERGENCY DISARMING SEE «CONTROL THE SYSTEM IN CASE OF EMERGENCY», ENGINE BLOCKING WHILE DRIVING POSES AN INCREASED RISK. WE STRONGLY RECOMMEND THAT YOU BE PARTICULARLY CARFELL WHEN USING THIS METHOD OF BLOCKING.

#### Anti-Hi-Jack mode

The Anti-Hi-Jack mode helps to prevent aggressive seizure of a vehicle in case of disappearance of the authorization devices from the radio coverage zone when system is disarmed and ignition is on. If the system cannot detect an authorization device, the base unit will perform a delayed engine blocking. The siren will play the 'Engine blocking warning' ringtone before blocking. The engine will be blocked immediately or at the time the vehicle starts moving, it depends on the system settings. When an authorization device appears in the coverage zone, the system will exit blocking mode and will continue to work in normal mode.

THIS MODE IS DISABLED BY DEFAULT. THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

FOR EMERGENCY DISARMING SEE «CONTROL THE SYSTEM IN CASE OF EMERGENCY». ENGINE BLOCKING WHILE DRIVING POSES AN INCREASED RISK, WE STRONGLY RECOMMEND THAT YOU BE PARTICULARLY CAREFUL WHEN USING THIS METHOD OF BLOCKING.

#### Code Immobiliser (pin-to-drive) function

This function allows to use the pre-programmed «Immobiliser PIN-code» to disable the engine blocking, service mode, disarming the security system. The code must be entered using original vehicle controls (buttons/lever/pedal) and/or additionally installed elements.

AN EXAMPLE OF USING THE FUNCTION

- Turn on the ignition to disable engine blocking or service mode, turning on the ignition is not required if
  you want to disarm the system or control time channels.
- Enter the «Immobiliser PIN-code», code can consist max of 4 digits from 1 to 9.
  - Press the pre-programmed button/lever/pedal the number of times equals to the first digit.
- Pauses between presses should not exceed 1 second. More than 1 second pause will be interpreted as the start of the next digit input.
- After entering the code correctly, the system will perform the programmed function.
  - THIS MODE IS DISABLED BY DEFAULT. THE CONFIGURATION SHOULD BE MADE BY A QUALIFIED TECHNICIAN.

## Checking the number of paired devices

The number of paired radio tags/mobile devices can be checked by the number of flashes of the LED indicator. The number of remotes/tags/mobile device can be checked when switching on the ignition (system must be disarmed). The number of orange flashes will indicate the number of paired remotes/bands/watches, the number of green flashes will indicate the number of paired radio tags, a following red flash will indicate a paired mobile device.

You can also check the number of paired radio tags/mobile devices by taking off and putting back on battery terminal. The system will emit short sound signals from a siren ()).

#### **IMMOBILISER RADIO TAG**

A radio tag is a device used to control a vehicle/system on a distance of a Bluetooth connection. The tag is also used as an authorization device for «Immobiliser/Anti-Hi-Jack/Hands Free» modes. The radio tag has: a control button of ror arming/disarming and activating/deactivating Service mode; a built-in accelerometer, which allows the tag to go in the energy saving mode when there is no movement: LED indicator SEND.

FOR CORRECT OPERATION, IT IS NOT RECOMMENDED TO PLACE THE RADIO TAG NEAR THE METAL OBJECTS, MAGNETIC AND ELECTRONIC DEVICES (CREDIT CARDS, PHONES, KEYS, REMOTES, ETC.). DO NOT EXPOSE THE RADIO TAG WITH HIGH TEMPERATURES, MOISTURE, OR STRONG IMPACTS. IT IS RECOMMENDED TO PLACE THE RADIO TAG ON THE BELT IN AN INDIVIDUAL CASE OR IN THE FRONT POCKET OF CIOTHING.



#### **Functions of the button**

ACTION	FUNCTION
- Short press when ignition is off	Arm/disarm
- Press and hold for 3 sec (ignition on)	Activating/deactivating Service mode
- Press and hold for 6 sec (programming mode)	Pair a tag with the base unit
- Press and hold for 10 sec	Firmware update

#### Indication of the SEND LED

SIGNALS	DESCRIPTION	
one flash	Arm/disarm Confirmation of arming Low battery level (when installing a battery)	
two flashes	Confirmation of disarming	
three flashes	High battery level (when installing a battery)	
faded constant light	Battery is discharged (when installing a battery, when the button is pressed)	

## Installation/replacing a battery of the tag CR2032

To install or replace the battery (CR2032), carefully follow these steps:

- 1. Turn the battery cover in the «OPEN» direction;
- 2. Remove the battery cover;
- 3. Remove the battery from the battery compartment and, observing the polarity, install a new one (when installing a high-quality battery, the SEND indicator light will produce three red flashes);
- 4. Install and rotate the battery cover in the «CLOSE» direction. After completing the procedure, you can continue to operate the radio tag in normal mode.



## **Updating firmware of the tag**

- Download the Pandora BT application (Android / iOS) or Pandora Specialist (Android) on the devices equipped with a Bluetooth 4.0 Low Energy or higher module.
- · Open the mobile app, find the system.
- Press and hold the button of the radio tag until the 10th flash of the «SEND» indicator, then release the button.
- Select the found device and select one of the update options: FILE MANAGER firmware will be uploaded from the phone storage (only for Android). INTERNET – firmware will be uploaded by an internet connection

#### MORII F APPLICATION

Pandora Connect is a mobile application to control the system, receive status information and use the mobile phone as an authorization device on a distance of a Bluetooth connection. The mobile phone must be paired with the system.

The Pandora Connect mobile app is available for downloading from the corresponding app store:

App Store for iOS devices;

Google Play for Android devices.

Read the procedure for writing a mobile device to the system memory:

I. ENTER THE PROGRAMMING MODE

Use the VALET button to enter the «Service PIN-code» (default value is 1-1-1-1). See the detailed instruction of code entering in the «Control over the system in case of emergency» section.

II. ENTER THE «PAIRING A MOBILE PHONE» PROGRAMMING LEVEL

After entering programming mode, press and hold the VALET button for 5 seconds (until the fifth signal of the Siren). The system will enter the «Pairing a mobile phone» programming level. The LED indicator will light green, the system is ready for pairing.

III. PAIR A MOBILE DEVICE

Enable the Bluetooth connection in the mobile device, enter the app settings, click «Bluetooth control», click «Not defined». In the search box, establish a connection with the detected system. The red and green flashes of the «LED» indicator light and a single siren sound will confirm the pairing.

IV FXIT PROGRAMMING MODE

Turn on the ignition and then turn off to exit programming mode.

THE MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES OF THE INTERFACE AND FUNCTIONALITY OF THE INTERNET SERVICE AND MOBILE APPLICATION WITHOUT NOTIFYING THE CONSUMER.

THE SYSTEM SUPPORTS BLUETOOTH CONNECTION ONLY WITH ONE MOBILE DEVICE.

ĀFTER PAIRING OF A NEW DEVICE THE PREVIOUSLY PAIRED WILL BE ERASED FROM THE SYSTEM MEMORY.

When pairing the previously paired device first delete the existing Bluetooth connection in the mobile phone, then make a pairing once again.

IF THERE IS NO AUTOMATIC PAIRING, ENABLE THE «PIN REQUEST FOR PHONE PAIRING» ITEM IN THE «RADIO TAG AND MOBILE DEVICE FUNCTIONS» SETTINGS AND MAKE THE PAIRING PROCEDURE AGAIN. A MOBILE DEVICE WILL REQUEST A PIN-CODE (FACTORY PRE-SET IS 0-0-1-1-1-1) WHERE 4 LAST DIGITS ARE THE «SERVICE PIN-CODE». THIS SETTING SHOULD BE MADE BY A QUIALIFIED TECHNICIAN.



App Store





# **Controlled and security zones**

VEHICLE/SYSTEM ZONES	CONTROLLED ZONES	SECURITY ZONES
External temperature		
Engine temperature	£	
On-board voltage	<b>**</b>	<b>~</b>
Shock sensor (alarm)		
Shock sensor (warning)		*
Tilt sensor (alarm)		
Motion sensor (alarm)		4444
Ignition (alarm)	<del></del>	<b></b>
Brake (alarm)	<b>0</b> —	<b>₩</b>
Clutch (alarm)		
Trunk (alarm)		
Additional sensor (alarm)		<b>⟨ॄ̂</b> >
Additional sensor (warning)		⟨••⟩

#### SYSTEM INSTALLATION

## **General installation requirements**

- · Install the base unit in secured place with difficult access.
- Install securely each system's component, as conditions of the vehicles standard operation can harm functionality of the alarm system and cause damage to the vehicle original systems, including the elements of safety in motion.
- The system installation should be performed when the system sockets and the negative battery terminal are disconnected.
- The base unit power supply should be switched off when connecting to CAN-bus. The system
  installation can be performed via twisting together or via lead tin soldering followed by isolation
  of a switching place.
- When wiring, pay attention to sections and materials of switched conductors, if they are different, bring electrochemical potentials to the minimal difference. The isolation should not allow for moisture to reach wiring, as the presence of moisture will increase electrochemical destruction of wires (this is especially important for the large current circuits).
- Switched connections should be placed as high as it is possible in the cavities so water condensate will not form drops on the switching location.
- To avoid the destruction of compounds by vehicle vibration, ensure that there is a bit of free length to the wiring, providing enough sagging.
- Do not allow wiring in places where the wires isolation can be destroyed by abrasion.
- Electronic system units should be placed sockets down and as high as possible to avoid condensate reaching electronic components through the socket.
- When installing base unit, secure it to the vehicle body/frame for correct operation of in-built shock sensor.
- All unused system wires during the installation must be insulated and secured to prevent accidental touching of a vehicle body or other wires.

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#### Micro-USB connector

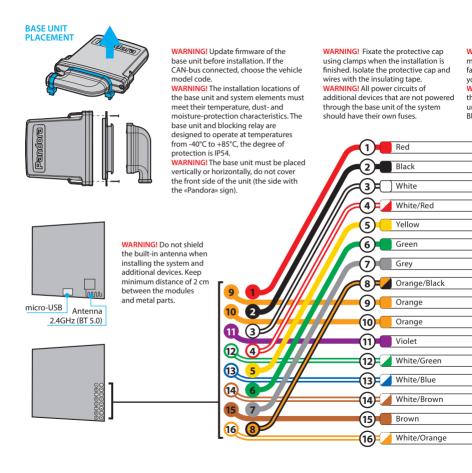
This connector is used to configure and update the system with Pandora Alarm Studio or Pandora Specialist App.

#### Main cable

The main cable contains low-current programmable channels: inputs «INP» and outputs «CH» with a preset logic. Changing the preset logic is available in the system settings «Inputs and outputs» or «Time channels» menus. Additionally, in the «Input settings» submenu the «INP» channels can be reassigned from the normally open type «NO» (the system reacts to the appearance of the potential corresponding to the scheme) to the normally closed type «NC» (the system reacts to the disappearance of the potential corresponding to the scheme).

- Wire №1 | Red | POWER SUPPLY (+12V) 10A System power supply. It should be securely connected to the reliable conductor with a constant voltage of +12V. The wire is equipped with a 10A fuse.
- Wire №2 | Black | GROUND (-) ground. It should be connected to a vehicle grounding spot (-). This wire should be connected FIRST during the installation.
- Wire Nº3 | White channel for connecting of the external temperature sensor, default logic is «Engine temperature sensor». It is connected to the red wire of the sensor, the black wire of the sensor is connected to the ground (-).
- Wire Nº4 | White/red | LED/VALET channel for connecting the external VALET button. It is connected to the red wire of the external button.
- Wire №5 | Yellow | (+) | INP1 default setting is positive status «Ignition» input. It is connected to
  the ignition switch or other wire, where +12V appears when the ignition is turned on and does not
  disappear until the ignition is turned off. This input is mandatory for connection.
- Wire Nº6 | Green | 200mA (-) | INP2/CH4 default setting negative status «NC blocking» output.
   Channel for controlling the blocking relay with a normally closed contact group (the channel is enabled when: the system is armed and ignition being switched on, the system is disarmed but the Immobiliser or Anti-hi-Jack mode is enabled and the ignition being switched on).
- Wire Nº7 | Grey | 200mA (-) | CH1/INP4 default setting negative status «Clutch» input. Is used
  for system arming/disarming in the presence of authorization devices (see 1.2.4 setting «Arming/
  disarming by clutch lever»). It is connected to the wire what becomes grounded when the clutch
  lever is pressed.
- Wire Nº8 | Orange/black | CAN-L digital bus «CAN-Low». It is connected to the corresponding
  CAN-Low wire of the vehicle. Before connecting the digital bus, you must select the vehicle model
  (model code). Information available on www.loader.pandorainfo.com and in the Pandora Specialist
  App and Pandora Alarm Studio.

- Wire Nº9 | Orange | 6A (+12V) | CH7 default logic is «Turn indicators». Connect this wire to (+) control wire of the left or right turn indicators. The wire is equipped with a 7.5A fuse.
- Wire №10 | Orange | 6A (+12V) | CH6 default logic is «Turn indicators». Connect this wire to (+) control wire of the left or right turn indicators. The wire is equipped with a 7.5A fuse.
- Wire №11 | Purple | 2A (+12V) | CH5 default logic is «Siren». Connect this wire to +12V wire
  of the siren. When using owner's authorization devices and Immobiliser or Anti-hi-Jack modes, it is
  recommended to set both «Siren» and «Beeper» logic in the settings.
- Wire Nº12 | White/Green | LED/VALET channel for connecting the external VALET button. It is
  connected to the black wire of the external button.
- Wire №13 | White/blue | (+) | INP3 default logic is «Brake». Connect this wire to a wire where +12V appears when the brake pedal or lever is pressed.
- Wire Nº14 | White/brown | 200mA (-) | CH2/INP5 default logic is «Trunk». Connect this wire to a
  wire that becomes grounded when the pannier opens. It is necessary to change the input type from
  NO to NC in the «Inputs settings» if a magnetic reed sensor is used.
- Wire №15 | Brown | 200mA (-) | CH3/INP6 default logic is «Trunk». Connect this wire to a wire that becomes grounded when the pannier opens. It is necessary to change the input type from NO to NC in the «Inputs settings» if a magnetic reed sensor is used.
- Wire №16 | Orange/black | CAN-H digital bus «CAN-High». It is connected to the corresponding CAN-High wire of the vehicle. Before connecting the digital bus, you must select the vehicle model (model code). Information available on www.loader.pandorainfo.com and in the Pandora Specialist App and Pandora Alarm Studio.



#### WIRING DIAGRAM

## Pandora MINI MOTO

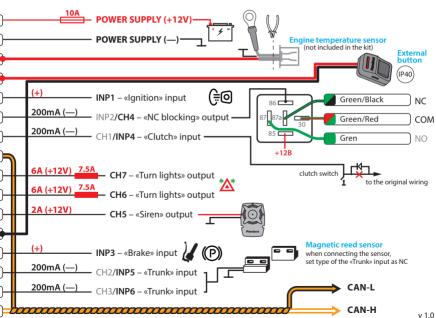
ARNING! The system is a aintenance-free device. In case of ilure vou must immediately contact our local supplier.

ARNING! All wireless accessories from ne kit are already paired with the base nit. The maximum number of paired uetooth accessories is 14

IT IS FORBIDDEN to install the system on a vehicle with normal voltage other than 12V

IT IS FORBIDDEN to install the system with damaged output cables.

IS FORBIDDEN to change or bypass original fuses of a system in the installation process. IT IS FORBIDDEN to install the temperature sensor at the place where temperature is higher than the operating range of the sensor (+125°C) and cable (+80°C).



#### **CONTROL THE SYSTEM**

## **Arming**

To arm the system when the ignition is off, use one of the methods described below. The system will confirm the command with  $1 \times (1 \times 1)$  short sound signal and  $1 \times (1 \times 1)$  flash of light signalization.

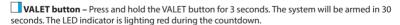


		Clutch lever – P	ress the clutch	lever wher	n an owner	authorization	device (	radio tag,	phone,	band,
٧	va	atch) is in the cove	erage zone 🧗 -	M.						

	Radio tag –	A radio tag	must be in the	e Bluetooth	coverage	area.	Shortly	press th	ne control	button
	on the tag.									

Mobile app Pandora Connect – When the system is online (Bluetooth connection), press and ho
he button $\bigcap$ on the control panel until the scale is fully loaded. The icon of the current system mod
vill be changed <b>由○→ 급</b> .

n your vehicle 🔊	way from '	device awa	authorization	with an	<ul><li>Move</li></ul>	-ree mode -	Hand
i your veriicle	way mom	device awa	authonzation	: with an	- Move	ree mode -	папи



## **Disarming**

To disarm the system, use one of the methods described below. The system will confirm the command with 2 short sound signals 2x 1) and 2 flashes of turn indicators 2x 1.



Clutch lever – Press the clutch lever when an owner authorization device (radio tag, phone, band, watch) is in the coverage zone ( ).

Radio tag – A radio tag must be in the Bluetooth coverage area. Shortly press the control button on the tag.

HandsFree mode – Move toward the vehicle with an authorization device 4.

**VALET button** – Enter the «Secret PIN-code» (see the «Emergency disarming using the VALET button» section).

#### **PANIC** mode

If your vehicle or you are in danger and you want to draw attention to your vehicle, you can use PANIC mode. In this mode the siren () will sound and turn signals () will flash repeatedly for 30 seconds. To activate this mode, use one of the methods described below.

Mobile app Pandora Connect – When the system is online (Bluetooth connection), press and hold the button on the control panel until the scale is fully loaded. To switch this function off press and hold the button on the control panel until the scale is fully loaded.

To change the location of the buttons on the control panel go to the app settings and enter the «Control Buttons» menu

## Season storage mode

A special mode designed for long-term parking or seasonal storage of the vehicles. This mode significantly reduces the power consumption of the system by disabling the notification and control interfaces.

- Season storage mode is activated via the mobile app or automatically, regardless of the security mode.
   When the system is armed and Season storage enabled, the security zones are monitored. In case of violation of the security zone (s), Season storage mode will be temporarily disabled (for 15 minutes).
- · Season storage mode is disabled depending on the security mode:
- if the system is armed, it is necessary to violate some security zone and disarm the system by any available way within 15 minutes;
  - if the system is disarmed, the ignition must be switched on.

Mobile app Pandora Connect – When the system is online (Bluetooth connection), press and hole
the button on the control panel until the scale is fully loaded.

To change the location of the buttons on the control panel go to the app settings and enter the «Control Buttons» menu

**Automatic mode** – the system allows automatically activate the Season storage mode after a specified number of days after the last event (arming/disarming, changing the status of the security zone).

This mode is disabled by default - configuration of the system should be made by a qualified technician.

#### Service mode

It is recommended to put the system into the service mode before handing it to a service station or valet parking. When this mode is switched on, security system stops interfering with built-in electronics and disables all functions to ease maintenance.

To activate Service mode disarm the system , turn on the ignition, an authorization device (radio tag, remotes, watches, band) must be in the Bluetooth coverage zone. Deactivation of Service mode is carried out without conditions.

Use one of the methods described below. The confirmation of the executed command will be:

Service mode is enabled - one long sound signal of a Siren1x () and LED of the external button lights green while ignition is on ().

# Service mode is disabled - two long sound signal of a Siren 2x (1) and LED of the external button faded while ignition is on.

For the sound notifications it is neccessary to make an additional setting (assign an additional logic «Beeper» to the «Siren» output channel) - settings should be made by a qualified technician.

Radio tag – to activate/deactivate Service mode, press and hold the button on a radio tag until the third flash of the LED. The device must be in the Bluetooth coverage area.

Pandora Connect – To activate/deactivate service mode, open the mobile application. When the system is online (Bluetooth connection), press and hold the button on the control panel until the scale is fully loaded. Activated Service mode is indicated by icon it will disappear after deactivation.

To change the location of the buttons on the control panel go to the app settings and enter the «Control Buttons» menu.

#### CONTROL OVER THE SYSTEM IN CASE OF EMERGENCY

BEFORE USING EMERGENCY SYSTEM CONTROL, CHECK THE SYSTEM AND VEHICLE CONTROL DEVICES: CHECK A BATTERY, TURN ON A DEVICE IN ACCORDANCE WITH ITS MANUAL (IF REQUIRED).

IF ALL DEVICES ARE WORKING, TRY TO MAKE A PRIMARY VEHICLE DIAGNOSIS: CHECK THE VEHICLE ORIGINAL CONTROL DEVICE, VEHICLE BATTERY CHARGE LEVEL, GEARBOX SELECTOR POSITION, CHECK INFORMATION ON THE DASHBOARD.

# THE SYSTEM CAN BE CONTROLLED FROM A PHONE WITH AN OPTIONAL PANDORA EYE PRO / NAV-X TELEMETRY MODULE

Call the telemetry module phone number and enter the command after the answer. If the call is made from a number which is not saved in memory, then after the sound signal you will need to enter the «Guest PIN-code»:

0\* - Disarming

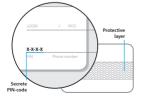
998\*xxxx – Deactivate authorization devices, where xxxx is the «Secret PIN- code» written on the Owner's personal card of the telemetry module.

The system has emergency ways to deactivate security and Anti-Hi-Jack functions (using the VALET button and the «Secret PIN-code») in case of loss or failure of control devices or in case of discharge of a battery (when you cannot replace it or charge).

- «Secret PIN-code» is located under protective layer on the «Owner's personal card»;
- · VALET button is located on the external VALET button or on the main unit.

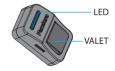
#### Owner's personal card

REMOVE THE PROTECTIVE LAYER CAREFULLY. DO NOT USE ANY SHARP OBJECTS TO AVOID DAMAGING OF HIDDEN INFORMATION UNDER THE PROTECTIVE LAYER.



#### **External VALET button**

THE EXTERNAL VALET BUTTON IS PLACED IN THE INTERIOR (CHECK «System modules layout»)



#### READ THE PROCEDURE FOR ENTERING THE PIN-CODE BEFORE USING EMERGENCY FUNCTIONS.

- Enter the first digit Press the button the number of times equal to the first digit. Pauses between
  presses should not exceed 1 second. Each pressing will be confirmed with an orange LED indicator
  flash. Pause for more than 1 second, a red LED indicator flash confirm the input of the first digit. Then
  you can enter the next digit.
- Enter the second digit Press the button the number of times equal to the second digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with an orange LED indicator flash. Pause for more than 1 second, a red LED indicator flash confirm the input of the second digit. Then you can enter the next digit.
- Enter the third digit Press the button the number of times equal to the third digit. Pauses between
  presses should not exceed 1 second. Each pressing will be confirmed with an orange LED indicator
  flash. Pause for more than 1 second, a red LED indicator flash confirm the input of the third digit.
  Then you can enter the next digit.
- Enter the fourth digit Press the button the number of times equal to the fourth digit. Pauses between presses should not exceed 1 second. Each pressing will be confirmed with an orange LED indicator flash. The correct input will be confirmed with the series of green and red flashes of the LED indicator.

#### **Emergency disarming**

Not paying attention to the siren signals, make sure that the ignition is off and enter the «Secret PINcode» (see the procedure description above). If there are no siren sounds or LED flashes, check the battery. It is not possible to enter the «Secret PIN-code», if there is no power supply.

- The system will be disarmed in case of correct PIN-code input. It will be confirmed with the series of
  green and red flashes of the LED indicator, the series of sound signals of the Beeper, 4 beeps of the
  Siren and 4 signals of the light signalization.
- Emergency disarming is equivalent to a normal method of disarming. No additional actions are required for further operation of the system.
- The system will stay in previous state in case of incorrect input of the PIN-code. It will be indicated
  with a long red flash of the LED indicator. New input can be attempted after 5 seconds.

#### **Emergency control of the Code Immobiliser**

This section describes two options to deactivate Immobiliser modes:

- Immobiliser and Anti-hi-Jack use owner authorization devices (tags, remotes, watches, bands) for engine blocking;
- Code Immobiliser uses standard vehicle controls (buttons, levers, pedals) to enter the Immobiliser PIN-code.

#### OPTION Nº1 - Emergency deactivation of the Code Immobiliser

To temporarily deactivate the Code Immobiliser (pin-to-drive) function, turn on the ignition when the system is disarmed and Service mode disabled. Enter the «Secret PIN-code» from the Owner's personal card using the VALET button. The Immobiliser functions will be deactivated by the time the ignition is turned off.

#### OPTION Nº2 - Emergency control of the Code Immobiliser mode

This method is used for a permanent deactivation of the Code Immobiliser (pin-to-drive) function. Deactivation and activation is made by entering the «Secret PIN-code» from the owner's personal card using the VALET button while system is disarmed, ignition is off and the Service mode is disabled.

- **1. Enter the programming mode by entering the «Secret PIN-code»** (from the Owner's personal card) or the «Service PIN-code» (factory preset is 1-1-1-1). The PIN-code should be entered using the external or located on the base unit VALET button.
- **2. Code Immobiliser** enter the programming level Nº13 press the VALET button 13 times (without pauses).
- **2. Immobiliser / Anti-Hi-Jack** enter the programming level  $N^{\circ}15$  press the VALET button 15 times (without pauses).
- **3. To deactivate the function** The LED indicator will be green after entering the programming level. The system will wait 10 seconds for entering the «Secret PIN-code». If the PIN-code is not entered within 10 seconds or the input is incorrect, the LED will produce the series of red and green flashes and the system will return to the programming menu. Enter the «Secret PIN-code» that is written on the Owner's personal card. The system will confirm deactivating with a long red LED flash and two sound signals of the Siren. Turn on the ignition and then turn off to exit programming mode. The function will be deactivated.
- 4. To activate the function The LED indicator will light red after entering the programming level. The system will wait for action. Press the VALET button once to activate the function. The system will confirm enabling with one short sound signal of the Siren and a green LED light. Turn on the ignition and then turn off to exit programming mode. The function will be activated.

#### **PROGRAMMING THE SYSTEM**

System settings and parameters can be configured using the Pandora Alarm Studio and Pandora Specialist application. Some functions can be configured only by the programming menu of the system. It is required to put the system to programming mode to get access to the settings.

#### Entering/exiting programming mode

You can enter the programming mode only if the base unit is powered form a USB cable or the main power supply is connected, the ignition is off, the system is disarmed and Service mode is off.

To enter programming mode, enter the «Service PIN-code» (default value is 1-1-1-1) using an external VALET button or the VALET button located on the base unit.

If you don't have the «Service PIN-code», you can enter programming mode using the «Secret PIN-code» written on the owner's card. It is forbidden to damage the protective layer of the «Owner's personal card» - the information under the protective layer of the card is intended only for the owner of the system. When the owner complains about the erased protective layer, the system is reinstalled at the expense of the installer.

The system stops to execute commands when it is in programming mode. Therefore, exit programming mode after changing settings and parameters of the system.

To exit programming mode, use one of the following methods:

- Press and hold the VALET button for more than 10 seconds;
- Turn on and then turn off the ignition when a USB cable is disconnected and the main power supply of the system is connected:
  - Disconnect the power supply (main and USB power supply).

The system will reboot programmatically (all changes will be saved) after exiting programming mode. All ways to exit programming mode are accompanied by sound signals of the siren and light signals of the LED indicator. The light signals indicate the number of paired control devices.

SEE THE «CHECKING THE NUMBER OF PAIRED DEVICES SECTION OF THE USER MANUAL FOR DETAILED DESCRIPTION.

## **Pandora Specialist application**

The Pandora Specialist mobile application (Android only) is available for system configuration:

- Download and install the Pandora Specialist mobile app (scan the QR-code or go to the Google Play app store);
- Connect the system and mobile device using USB cable or Bluetooth connection



#### Bluetooth connection

- Enter the programming level Nº50;
- Open the mobile app, go to «Advanced mounting», when choose «Bluetooth»
- Choose the system in a search field;
- When changing the settings enter the «Service PIN-code» (default value is 1-1-1-1).

After the settings were made delete the mobile device from the system memory by entering programming level Nº50

#### **USB** connection

- Connect the USB-OTG adapter to your smartphone or tablet;
- · Connect the USB cable to the system:
- Connect the USB-OTG adapter to the USB cable;
- Open the mobile app, go to «Advanced mounting», when choose «USB-OTG»;
- Enter the «Service PIN» (default value is 1-1-1-1).

USB-OTG ADAPTER IS NOT INCLUDED IN THE SET. CAN BE ORDERED SEPARATELY.

#### **Pandora Alarm Studio**

The Pandora Alarm Studio allows you to change the main settings and parameters of the system, update firmware, download installation manuals. A current version of the Pandora Alarm Studio can be downloaded from pandorainfo.com. The Pandora Alarm Studio is provided only to authorized installers of Pandora systems.

- Download the Pandora Alarm Studio to a PC with Windows XP/Vista/7/8/10.
- Run the Pandora Alarm Studio;
- · Connect the system to the PC via a USB cable;
- Put the system to the programming mode;
- The Pandora Alarm Studio will automatically connect to the system and you will be able to configure settings and update firmware.

## **Updating firmware**

It is recommended to update firmware of the base unit before installing and programming the system.

#### **Pandora Specialist**

- Open the «Check firmware» menu and select one of the update options («Download firmware» - upload firmware file from a server, «File manager» - upload previously downloaded to the device memory file);
- Select firmware and press the «Update» button to upload firmware to the base unit.

#### Pandora Alarm Studio

- Open the «Update Software» window and select one of the update options («Load from file» – upload firmware file from a PC folder, «Firmware archive» – upload firmware from a server to «Firmwares» folder);
- Select firmware and press the «Update» button to upload firmware to the base unit.

It is required to exit programming mode after settings were changed or firmware was updated.

IF THE BOOT MODE HAS BEEN INTERRUPTED FOR SOME REASON AND THE STATUS INDICATOR LIGHTS RED, YOU NEED TO LOAD FIRMWARE USING QUICK BOOT MODE (WITHOUT ENTERING THE PIN-CODE). OPEN THE PANDORA ALARM STUDIO OR PANDORA SPECIALIST APPLICATION; DE-ENERGIZE AND DISCONNECT THE SYSTEM; PRESS AND HOLD THE VALET BUTTON LOCATED ON THE BASE UNIT; RELEASE THE BUTTON IMMEDIATELY AFTER CONNECTING THE USB CABLE; THE SYSTEM WILL ENTER BOOT MODE.

## **Programming table**

FUNCTION		VALET BUTTON				
№0 – Entering a level			Level	Level Del		Update
№2 – Changing the Service PIN-code			P2			
№4 – Reset to the factory settings			P4	Н	4	
№10.1.1 – Pairing a radio tag BT	H1→P1→P1	Н	3			
№10.1.2 – Pairing a radio tag BT760 / BT770 / BT780			H1→P1→P2	H	3	
№10.1.3 – Pairing a radio tag BT760 / BT770 / BT780			H1→P1→P3	H	3	
№10.2.1 – Pairing a D030 / D035 / Band / Watch2			H1→P2→P1	н	3	
№10.2.2 – Pairing a D030 / D035 / Band / Watch2			H1→P2→P2	H	3	
№10.2.3 – Pairing a D030 / D035 / Band / Watch2			H1→P2→P3	H	3	
№10.3.1 – Pairing a door sensor DMS-100BT			H1→P3→P1	Н	3	H5
№10.3.2 – Pairing a door sensor DMS-100BT			H1→P3→P2	H	3	H5
№10.3.3 – Pairing a door sensor	DMS-100BT		H1→P3→P3	H	3	H5
№10.3.4 – Pairing a door sensor DMS-100BT			H1→P3→P4	H	3	H5
№10.4.1 – Pairing a radio relay BTR-101			H1→P4→P1	Н	3	H5
№10.4.2 – Pairing a radio relay BTR-101			H1→P4→P2	Н	3	H5
№ 10.6 – Pairing an additional device RHM-03BT / PS-331BT / PS-332BT			H1→P6	Н	3	H5
№10.7 – Pairing an additional device			H1→P7	Н	3	H5
№10.8 – Pairing a telemetry module Pandora Eye Pro / NAV-X			H1→P8	Н	3	
№10.9 – Pairing a GPS-receiver NAV-035 BT			H1→P9	Н	3	H5
№10.11 – Pairing an RF module RFM-470			H1→P11	Н	3	H5
№11 – Programming and configuring an «Immobiliser PIN-code»			H1•P1			
№13 – Emergency deactivating/activating code Immobiliser function (pin-to-drive)			H1•P3			
№15 – Emergency deactivating/activating authorization devices (Immobiliser, Anti-hi-Jack)			H1•P5			
№50 – Pairing a mobile phone			H5			
№100 – Exit the programming menu			H10			
P – press X times H – hold for X sec		→ – 1 sec pau	se	• – wit	hout a pause	

## Level NºO - Entering a level

Enter programming mode, enter the «Service PIN-code» (default value is 1-1-1-1) using an external VALET button or the VALET button located on the base unit. After entering programming mode, the system waits for level input – «Level 0 Entering a level». Enter a desired level using the VALET button (see the programming table) to change settings or parameters:

- To enter a level («Level №1...№17»), press (P) the VALET button the number of times equals to the
  desired level number (1...17), pauses between presses should not exceed 1 second. The system
  will confirm correct input with red LED flashes and short sound signals of the Siren and proceed
  to the desired level.
- For quick access to the higher level, press and hold (H) the VALET button. The siren will sounds tone beeps (up to 10). These sounds means the sequence number of a two-digit level number (the first signal level №10, the fifth signal level №50, the tenth signal level №100). Release the VALET button immediately after the desired number of signal. To enter an intermediate level (Level №11...№18), press the VALET button the number of times equals to the second digit (1...8) of the desired level number immediately after releasing the button. The system will confirm correct input with red LED flashes and short sound signals of the Siren and proceed to the desired level.

## Level Nº2 - Changing the Service PIN-code

Prepare a new value of the «Service PIN-code», it should consist of 4 digits (from 1 to 9). Write down or remember the new PIN-code.

Enter the programming level №2:

- Enter the first digit of the code using the VALET button. Press the button the number of times equals
  to the first digit. Pauses between presses should not exceed 1 second, every pressing will confirm
  with an orange LED indicator flash. Pause for more than 1 second and a red LED indicator flash with a
  sound from the Siren confirm the input of the first digit. Then you can enter the next digit;
- Enter the other numbers in the same manner. The input of the fourth number will be confirmed by the series of red and green LED indicator flashes and the series of sound signals of the Siren. The system will wait for PIN-code re-entering;
- · Enter all four digits again.
- If you correctly enter the «Service PIN-code» twice, the indicator will produce the series of red and green flashes and the Siren will produce the series of sounds, the new PIN-code will be recorded, the system will return to the programming level NºO.
- In case of the incorrect code, input the indicator will be lit red and the Siren will sound a long beep, the system will not change the code and will return to the programming level №0.

## Level №4 - Reset to the factory settings

The procedure recovers the factory settings of the system without deleting previously registered devices (tags, mobile device, relays, etc.) that is stored in the non-volatile memory.

Enter the programming level Nº4:

 Press and hold the VALET button for more than 4 seconds. Release the button after a sound of the Siren. The system will confirm the resetting to the factory settings with a long red flash of the LED indicator. After that, the system will reset the settings to default and return to the programming level NºO.

## Level №10 - Manage Bluetooth devices / Firmware Update

ALL ADDITIONAL DEVICES INCLUDED IN THE SYSTEM SET ARE PAIRED WITH THE SYSTEM. THE MAXIMUM NUMBER OF PAIRED

ALL FUNCTIONS OF THIS LEVEL ARE AVAILABLE IN THE PANDORA SPECIALIST APP WHEN USING A BLUETOOTH CONNECTION.

FOR THE MANAGEMENT OF THE ADDITIONAL DEVICES GO TO «ADVANCED MOUNTING» -> «PAIRING/UNPAIRING DEVICES».

FOR THE FIRMWARE UPDATE OF THE ADDITIONAL DEVICES GO TO «ADVANCED MOUNTING» -> «SYSTEM DEVICES».

FOR A DETAILED DESCRIPTION OF PAIRING PROCEDURE FOR SPECIFIC DEVICE CHECK IT'S MANUAL ON WWW.PANDORAINFO.COM.

This level is used to pair/remove/update additional devices of the system. Each device is paired at a sublevel. To pair devices of the same type, a sublevel is divided into cells. To enter a sublevel or a cell of sublevel make a pause for more than 1 second, then press (P) the VALET button the number of times equals to the desired sublevel or cell number: «Level Nº10» (1sec) «Sublevel 1...10» (1sec) «Cell of sublevel 1...4».

#### PAIRING/DELETING AN ADDITIONAL DEVICE

Each sublevel or cell displays it's current state by a color of the LED: green light means the system is ready for pairing, red light means a device has been already paired and it is required to delete it for pairing a new device. To delete a device, press and hold the VALET button for 3 seconds (4 orange flashes of the LED, or 3 sound signals of the Siren). The system will be in pairing mode for 1 minute. After a minute or immediately after pairing a device, the system will automatically enter the programming level NºO.

#### PAIRING RADIO TAGS BT760/BT770/BT780

- Enter the programing level №10.1.1...3.
- · If the LED is green, the system is ready for pairing.

- Press and hold button on a tag until the 6 flashes of the tag status indicator, release the button:
- The system will confirm pairing with a sound signal from the Siren and the LED will light red.
- . The system will enter the programming level №0.

#### PAIRING PANDORA BAND

- Enter the programing level №10.2.1...3.
- If the LED is green, the system is ready for pairing.
- · Press and hold button on the Band for 6 seconds;
- The system will confirm pairing with a sound signal from the Siren and the LED will light red.
- The system will enter the programming level №0.

#### PAIRING DOOR SENSOR DMS-100 BT

- Enter the programing level №10.3.1...4.
- If the LED is green, the system is ready for pairing.
- Open the plastic case of the sensor carefully and insert a battery inside.
- · The system will confirm pairing with a sound signal from the Siren and the LED will light red.
- The system will enter the programming level №0.

#### **PAIRING A SIREN PS-332 BT**

- Enter the programming level «Pairing an additional device RHM-03BT/PS-331BT/PS-332BT» (level № 10.6);
- · System is ready for pairing, the LED lights green;
- Put a magnet on the selected zone and connect the power supply, the siren will be paired with the system;
- · The system will confirm pairing with a sound signal from the Siren and the LED will light red.
- The system will enter the programming level №0.

#### **UPDATING FIRMWARE OF AN ADDITIONAL DEVICE**

- To update firmware of an additional device, enter the «Level Nº10» «Sublevel» or «Cell» corresponding
  to an additional device. The LED will light red after entering. Press and hold the VALET button for 5
  seconds until 6 orange flashes of LED indicator or 5 sound signals of the Siren. Open the Pandora
  Specialist or Pandora BT app, go to «Search device» screen and select the device and then select one
  of the update option:
- INTERNET It allows you to upload firmware from a server.
- FILE MANAGER This function is available only for Android devices. It allows you to upload firmware from the phone storage.

# Level №11 – Programming and configuring an «Immobiliser PIN-code» The level is divided into 3 sublevels

## Selecting buttons

The system will automatically enter the sublevel 11.0 (Selecting buttons) after entering the level 11. The system will wait for buttons pressing. Each pressing will be confirmed with an orange flash of the LED. You can turn on the ignition (the system will stay in programming mode). The system can determine buttons via analog «Code Immobiliser 1» and «Code Immobiliser 2» inputs.

After selecting active buttons, press the VALET button to enter the sublevel 11.1 (Entering the PIN-code).

#### **Entering the PIN-code**

Program the Immobiliser deactivation PIN-code using the selected button or buttons on this sublevel. The code can consist of one or more memory cells, each memory cell can store a sequence of pressing each of the selected Immobiliser buttons.

The code is entered by pressing the selected buttons for at least 1 second. Each pressing is confirmed with an orange flash of the LED. A pause for more than 1 second and the red LED confirms the input for the current memory cell, you can start entering the next memory cell. After entering the code, press the VALET button to enter the next sublevel 11.2 (Confirmation of the PIN-code input).

#### Confirmation of the PIN-code input

- Confirm the entered PIN-code on this sublevel. Repeat the procedure described above and press the VALET button. The system will compare two inputs after that.
- If you correctly enter the code twice, the indicator will produce the series of red and green flashes
  and the Siren will produce the series of sounds, the new code will be recorded, the system will return
  to the programming level №0.
- In case of the incorrect code input the indicator will be lit red and the Siren will sound a long beep, the system will not change the code and will return to the programming level №0.

# Level №13/№15 – Emergency deactivating/activating authorization devices and functions

See the detailed description in the «Control of the system in case of emergency» section.

## Level №50 - Pairing a mobile phone

See the detailed description in the «Mobile application» section.

## Level №100 – Exit the programming menu

To exit the programming menu, press and hold the VALET button for more than 10 seconds until the tenth sound signal of the Siren or until a red flash of the LED. The system will exit programming mode and will reboot programmatically.

#### **ADDITIONAL DEVICES**

Remote control D-035 – is a two-way short-distance communication device designed to control a security system and receive information about its state. The remote control can be used as an owner authorization device.

**CONTROL COMMANDS** 

Arming/Disarming | Service mode

**STATUSES** 

Vehicle and system statuses

OWNER AUTHORIZATION

Immobiliser | Anti-Hi-Jack | Hands Free

OLED-DISPLAY | 2.4GHz RADIO INTERFACE (BLE 5.0) | THREE CONTROL BUTTONS SOUND INDICATOR | VIBRO INDICATOR | LED INDICATOR | BATTERY | MICRO-USB | IP40



Radio tag BT-760 / BT-770 / BT-780 – is a one-way short-distance communication device designed to control a security system. The tag can be used as an owner authorization device.

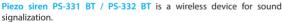
CONTROL COMMANDS

Arming/Disarming | Service mode

**OWNER AUTHORIZATION** 

Immobiliser | Anti-Hi-Jack | Hands Free

2.4GHz radio interface (BLE 4.2)  $\mid$  Control button  $\mid$  LED indicator  $\mid$  Motion sensor  $\mid$  CR2032 battery  $\mid$  IP40



#### PS-331 BT:

Sound pressure 105-118 dB | 2,4 GHz (BLE 4.2) Radio interface | Flexible input | Temperature sensor | Control of connection with a main unit | 300 mA, 12V | 1P65

#### PS-332 BT:

Sound pressure 105-118 dB | 2,4 GHz (BLE 4.2) Radio interface | Control of connection with a main unit | 300 mA. 12V | IP65









Door sensor DMS-100 BT is a wireless device designed to monitor internal or external perimeter state: any security zone can be assigned to the Hall/shock/tilt sensor state; temperature monitoring. The sensor can be installed on a door, hatch, trunk, trail, garage door.

2.4GHz radio interface (BLE 4.2)  $\mid$  Hall sensor  $\mid$  Temperature sensor  $\mid$  Shock/tilt sensor  $\mid$  CR123a battery



NAV-X is an additional module to provide telemetry and service functions:

- \* pandora-on.com internet service;
- \* Pandora Connect the mobile app for smartphones (Android and iOS)
- \* GSM connection.

CONTROL COMMANDS

Arming/Disarming | Service mode | Blocking

**STATUSES** 

 $\label{lem:condition} \mbox{Vehicle and system statuses} \ | \ \mbox{GPS location} \ | \ \mbox{Tracking}$ 

**NOTIFICATION** 

Voice | SMS | PUSH | E-mail

GSM MODEM (GPRS/SMS/LBS) | NANO-SIM | GPS/GLONASS RECEIVER |

2,4 GHz RADIO INTERFACE (BLE4.2) | MICROPHONE | +12V | MICRO-USB | IP40



#### 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. 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 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.

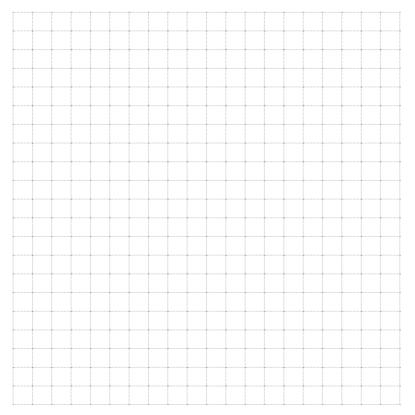
This includes: fire damage, consequential damage in case of car accident, aggressive liquids and water seeping damage, damage caused by improper use;

- 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 lifetime.

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.

WE RECOMMEND THAT YOU ASK AN INSTALLER TO FILL OUT THE INSTALLATION CERTIFICATE AND THE WARRANTY CARD. THESE DOCUMENTS MAY BE REQUIRED FOR CONTACTING THE CUSTOMER SUPPORT.



## **Installation certificate**

I, the undersigned	
Position, name	
professional installer, certify that installation of the service-security system, out by me in accordance with manuals and schemes provided by the manu Car specifications:	
Car model	
Туре	
ld number (VIN)	
Registration number	
Security system specification:	
Model Pandora Mini Moto	
Serial number	
Service center name, full address and installer's stamp	
Signature//	_/
Work accepted/	
Date «	

## **Acceptance certificate**

Model <b>Pandora Mini Moto</b> is in conformity v 2004/108/EC and R&TTE Directive 1999/5/EC.	with Electromagnetic Compatibility Directive EMC
Serial number	Date of production
Responsible person's signature (stamp)	
Packager	
Signature (personal stamp)	
Warranty card	
Model Pandora Mini Moto	
Serial number	
Date of purchase «»	_ 20year
Seller's (installer's) stamp	
Seller's signature	