SKYBRAKE DXL 4200
USER MANUAL

Work of the system

The alarm and service system Skybrake DXL 4200 is intended for security of motor vehicles and cars, prompt notification of owner about all the events happening with the guarded object. The system can be controlled in 3 ways. Using a mobile phone, using a clutch handle, using tag fobs 2.4 GHZ, which are packaged with the system, and in HANDS FREE mode. Skybrake DXL 4200 guards the following independent areas and sends messages to the owner's mobile phone and makes a record to the synchronous event protocol of the base module:

- limit switches of the saddlebag
- limit switches of the seat
- limit switches of the luggage compartment
- turning on of the ignition
- limit switch of the clutch
- depression of the brake pedal
- pickup of the shock sensor (preliminary and alarm level)
- pickup of the motion sensor
- pickup of the inclination sensor
- critical voltage drop in the vehicle power supply network

Alarm mode control (unsetting/setting)

When the alarm is set, the system controls all the alarm areas and locks operation of the engine. The alarm is set by pressing the clutch handle, when the ignition is turned on, the alarm is unset by pressing the clutch handle. When setting and unsetting, the presence of the tag fob in the radio exchange coverage area is controlled. Without a tag fob the alarm can be set/unset only using a mobile phone (if there is a tag in the radio exchange coverage area, the LED indicator is flashing green).

Alarm mode control in HANDS FREE mode

The system envisages a programmable alarm mode control algorithm, using which the system can be set in the automatic HANDS FREE mode. To set the alarm, when the ignition is turned off, move away with your tag fob from the guarded object to a distance exceeding the coverage of the designated radio channel of the system (2.4 GHz) – over 10 m, the system will set the alarm automatically. To unset the alarm, approach the guarded object with a tag fob to a distance below 10 m. - the system will unset the alarm.

Emergency control of the system

If you loss the alarm control fobs or they fail, the alarm can be unset as emergency using the VALET button. To unset the system's alarm mode, you should enter your PIN code. Factory setting is 1-1-1-1 (you can change it in system settings). See VALET button, entering PIN code. The system will confirm the correct entering by red and green flashes of the LED indicator and will unset the alarm.

Control from a mobile phone

1. Call to the system's phone number. Wait for the system to answer.
2. If the call is not coming from the main number of the owner, you need to enter the guest PIN code using phone buttons (factory value 1-2-3-4). When the guest PIN code was entered correctly, the system will start to inform about the current system status by voice. When the guest PIN code was entered incorrectly, the connection will end, and a notice regarding the entry of a guest PIN code will be sent to the owner's main number
3. Press buttons corresponding to the command to be entered and *
4. The system will confirm that the command has been executed

Disconnect the call to end the connection.

Commands available for control from a mobile phone

#	Return to previous menu/state
1*	Set the alarm
0*	Unset the alarm
9*	Reference
09*	Events history
007*	Enabling a microphone
100*	Balance query
123*	Start the engine/continuing engine running
321*	Stopping the engine
456*	Enabling an AUX channel
654*	Disabling an AUX channel
789*	Allow automatic engine start
987*	Prohibit automatic engine start
666*	Engine locking
999*	Disabling engine locking
258*	System information

VALET button, entering PIN code

Factory PIN code setting is 1-1-1-1 (you can change it in system settings). To enter a PIN code digit, you need to unset the alarm, turn off the ignition and press the VALET button the number of times equal to the digit to be entered, pauses between depressions should not exceed 1 sec., pauses over 1 sec. are perceived by the system as the end of entering the digit and a transfer to the entry of another digit of the PIN code.

- Enter the first digit of the service code using the VALET button. The system will confirm the entering by red (when entering the factory PIN code, press the VALET button once and wait for a red flash of the indicator)
- Enter other digits of the service PIN code in the same way. The system will confirm the correct entering by red and green flashes of the LED indicator and will enter the programming mode.
- You are in the system's programming mode.

If the PIN code was entered incorrectly, it will be indicated by a long red flash of the LED indicator after the entry of the 4th digit of the code. You can enter a new code only after 5 sec.

System components

1. Base module ..... 1pcs.
2. Tag fob (2.4 GHz) ..... 2pcs.
3. Main cable ..... 1pcs.
4. Microphone..... 1pcs.
5. LED indicator with a cable..... 1pcs.
6. Magnetic contact..... 2pcs.
7. Bundle tie L450 ..... 1pcs.
8. Battery CR-2025..... 2pcs.
9. Documentation..... 1pcs.
10. Package ..... 1pcs.

Technical specifications

Base module size.....93x55.5x16 mm
Tag fob size .....49.5x25.3x4.8 mm
Average current consumption in the alarm mode.....20 mA
Power supply voltage.....9-15 V
GSM modem.....900, 1800 MHz
Frequency band of the designated radio channel.....2.4-2.5 GHz
Working temperature range ..... From –40°C to +85°C

Anti-Hi-Jack mode

Anti-Hi-Jack mode provides the possibility to prevent the attempt to misappropriate a vehicle by force. It envisages the possibility to lock the motorcycle engine.

A special Anti-Hi-Jack algorithm was developed in the Skybrake DXL 4200 system, which excludes engine locking, when a motorcycle is riding. If this algorithm is enabled, when the engine is running the system constantly controls the presence of tag fobs in the identification area. If the tag fob has "disappeared", when the vehicle was riding, the system will try to restore the link to it for 30 seconds, and then a special analysis algorithm of the current engine speed and the motion sensor status is enabled. If the system does not register any increased engine speed and motorcycle movement within the estimated time, the engine lock is enabled.

To enable the Anti-Hi-Jack algorithm, you need to allow level I-2.2 (Anti-Hi-Jack mode) using the DXL Loader software.

ATTENTION: When the Anti-Hi-Jack algorithm is in operation, the system analyzes current engine speed and the position of the motorcycle using an integrated accelerometer. The Anti-Hi-Jack algorithm will not work, if the tachometer control (input No.3 – white wire) and recording of idle speed into the system memory is not connected

Locking/unlocking of the engine using a mobile phone

You can lock the motorcycle engine using any phone. The engine will stay locked until the **Unlock the engine** command is sent by phone.

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

2. Press 6 6 6 and * (asterisk) buttons to enable engine lock.

Or 9 9 9 and * (asterisk) buttons to disable engine lock.

ATTENTION! To disable engine lock, when you enter 9 9 9 * command, you need to enter your secret PIN code of the system using your phone.

3. The system will confirm that the command has been executed.

Disconnect the call to end the connection.