

## SKYBRAKE DXL 4200 INSTALL MANUAL

### Mounting of the system

The alarm and service system Skybrake DXL 4200 is intended to be mounted on any motor vehicles having a 12V vehicle power supply network. The system should be connected as per the diagram.

**DO NOT** exclude specifically designated fuses of the alarm system, when connecting to the car's wiring.

**DO NOT** connect the alarm system, which has damaged output cables.

**ATTENTION:** all the powerful circuits using external relays and other executive devices, which are not powered by the system's base module, must have their own fuses in the power supply system.

**ATTENTION:** install a SIM card, only when the power supply system is disabled.

**ATTENTION:** the alarm system does not require maintenance. In case of failure, it should be repaired by specialized service centers.

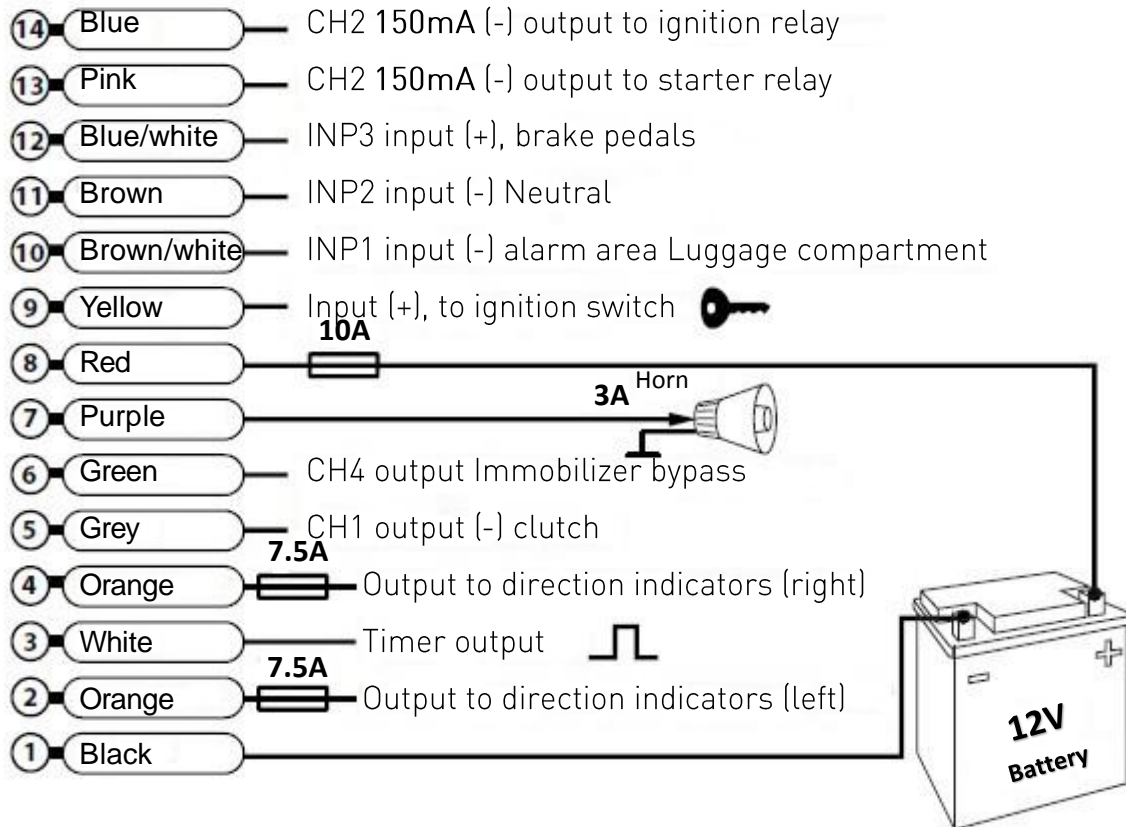
**ATTENTION:** the system uses universal programmable outputs, which are functioning as outputs and inputs. Be careful, when setting their functions.

**ATTENTION:** This model is equipped with an integral digital three-dimensional acceleration sensor, which recognizes shocks, motions and inclinations.

### Model connection diagram

Model connection diagram and purpose of programmable system outputs with automatic and remote engine start.

To use the automatic and remote engine control functions, the system should be connected as per the diagram below and factory settings should be changed using DXL Loader software according to the table of setting of programmable inputs/outputs.



### Connection of the system's base module

**Wire "1"** (Black) ("Earth") should be connected to earth. This wire is the first to be connected, when mounting.

**Wire "8"** (Red) ("Power supply") should be connected to a reliable conductor with direct voltage +12V. Power supply voltage of the base module should never disappear.

**Wire "2"** (Orange) ("Direction indicator") should be connected to left direction indicator control wire (+) (maximum load current 7.5A)

**Wire "4"** (Orange) ("Direction indicator") should be connected to right direction indicator control wire (+) (maximum load current 7.5A)

**Wire "7"** (Purple) ("Horn") is connected to horn control wire (+) (maximum load current 3A)

**Wire "9"** (Yellow) ("Ignition") is connected to the ignition switch or other wire, where +12V appears at the moment, when the ignition is turned on and does not disappear until the ignition turns on.

**Wire "3"** (White) ("Tachometer") is connected to tachometer wire, or circuit, where there are impulses of any polarity, which correspond (are proportionate) to the engine shaft speed. Must be connected if automatic and remote engine control functions are used.

Programmable inputs/outputs (wires: 5, 6, 10, 11, 12, 13, 14) value, polarity and output capacity is these outputs is shown on the connection diagram

## Programming menu, which is available using the VALET button

After you enter your service PIN code the following settings are available to you, which can be changed using the button:

1. Recording of tag fobs into the system memory
2. Change of the factory-set service PIN code
3. Recording of idle speed into the system memory
4. Reset to factory settings

## Change of setting using the VALET button

**Level I-1** - Recording of tag fobs into the system memory.

Enter the first programming level. Tag fobs are recorded in sequence. Before recording tag fobs, you should disconnect power supply elements from all the tags within at least 15 seconds. Then reinstall these power supply elements and the system will issue two short horn signals.

**Level I-2** - Change of the factory-set service PIN code.

- The status indicator is not lit. Press the VALET button the number of times equal to the first digit of the new secret code. The system's status indicator lights orange at each press of the VALET button. Intervals between depressions should not exceed 1 sec.;
- the system will confirm that it has accepted the first digit of the code by a red flash of the status indicator;
- enter other digits of the code in the same way
- the system will confirm that it has accepted the fourth digit of the code by a series of red and green flashes of the status indicator;
- Enter all the four digits of the code once again;
- If you have entered your secret code without errors twice, the system's status indicator will issue a series of red and green flashes and the new code will be recorded, the system will return to the programming mode;

- If you have entered an erroneous secret code, the status indicator will flash red and the system will return to the programming mode;

When it is entered, the status indicator becomes unlit, and the system is waiting for the entry of a new level number.

**Level I-3** - Recording of idle speed into the system memory.

At this level idle engine speed is recorded (into a non-volatile memory). When you enter this level, you need to turn on the ignition and to start the engine (it should be pre-heated, idle speed should correspond to the normal idle speed of a pre-heated engine). Then wait for stable idle speed (it is advisable to wait for about 30 seconds). Then press the VALET button once. After the recording has been made, turn off the ignition. At this level you can start and stop the engine many times, you will exit the mode only, when you press VALET.

**Level I-4** - Reset to factory settings

To reset to factory settings, you need to enter this programming level, then press and hold the VALET button for two seconds until you hear a horn signal. When you stop pressing the VALET button, the status indicator will show successful reset to factory setting by a long red flash.

## Setting parameters using a computer

All the system parameters are set by connecting the system to a computer using a miniUSB cable and Skybrake DXL Loader software.

When connecting the system to a computer, switch the system to the programming mode (using the VALET button) and enter the service PIN code of the system.

## Factory settings of programmable inputs/outputs

	Wire No	5	14	13	6	10	11	12
	Function	CH1 INP4	CH2 INP5	CH3 INP6	CH4	INP1	INP2	INP3
CH outputs	NC locking				•			
	NO locking							
	Ignition		•					
	Starter			•				
	Immobilizer bypass							
	Universal AUX channel							
INP inputs	Brake Pedal							•
	Luggage compartment							
	Seat						•	
	Saddlebag					•		
	Neutral							
Clutch channel	•							

## Settings of programmable inputs/outputs for connection using automatic engine start functions

	Wire No	5	14	13	6	10	11	12
	Function	CH1 INP4	CH2 INP5	CH3 INP6	CH4	INP1	INP2	INP3
CH outputs	NC locking							
	NO locking							
	Ignition		•					
	Starter			•				
	Immobilizer bypass				•			
	Universal AUX channel							
INP inputs	Brake Pedal							•
	Luggage compartment						•	
	Seat							
	Saddlebag							
	Neutral					•		
	Clutch channel	•						

## Setting of system functions using a mobile phone

To program the phone number of the owner and main system settings:

1. Enter the owner's tag into the radio channel 2,4 GHz coverage area
2. Call the system
3. Enter your PIN code using your phone buttons (factory setting is 1-2-3-4)
4. Listen to the information on system status and voice information
5. To enter the parameter programming mode, turn on the ignition and then turn it off no later than in 5 sec.
6. Using voice hints, set necessary parameters and the system work mode.