



**VOZROZHDENIE LLC**

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APPROVED BY

VZR.249600.000LU

**FULL HEIGHT ROTOR TURNSTILE  
CUBE C-10 MODEL**

**VZR.249600.000OM  
OPERATION MANUAL**

40 sheets

2021

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This Operation Manual (OM) applies to Ovgard Cube C-10 full height rotor turnstile and its modifications (hereinafter referred to as the product). Product firmware version:

FC C-10

The manufacturer reserves the right to change configuration, technical characteristics and appearance of the product without further notice

Before using the product, please read the Logbook VZR.249600.000 LB as well.

This OM is a document certifying the product's basic parameters and characteristics guaranteed by the manufacturer.

The Operation Manual is designed to instruct the user on the principle of operation, structure of the product to correctly operate the product, fully utilize its technical capabilities and maintain its constant readiness for operation.

The turnstile is delivered in a normally open design, i.e., when the power is off, it allows passage in both directions. When the turnstile is turned on, 2 beeps are sounded.

## **1 DESCRIPTION AND OPERATION**

### **1.1 Product description and operation**

1.1.1 High OxgardCube C-10 full height rotor turnstile is designed for control over passing of people at checkpoints of sites with strict requirements to access control and a need of full blocking of the passage zone height along.

It is applied to control access and manage people traffic separating it in one-by-one manner. The turnstile can be used at checkpoints of enterprises and organizations, in institutions, banks, in educational institutions, sports and entertainment facilities, shops, terminal stations etc.

To ensure convenient and fast passage of people, it is recommended to install one product per 300 people working during one shift.

1.1.2 The product structure is provided in Table 1.

Table 1 – Product components

Product designation	Product	Quantity	Note
Full Height Rotor Turnstile	Cube C-10	1	
BCP 01*	Basic control panel 01	1	
UCP 02*	Universal control panel 02	1	
Reader for PC*	Z2-USB	1	
Barrier section set*	Praktika barrier	1	
Bracket*	Fastening bracket to turnstile	1	
Key	Key for unlocking lock	2	



Note - Product components marked with (\*) are optional.

### 1.1.3 The product specifications are given in Table 2.

Table 2 – Product specifications

Parameter	Value
Supplied voltage, V	12 V
Average current in standby mode, A	2
Average current in passage mode, A	2
Maximum current consumption, A	4.5
Overall dimensions (HxWxL), mm: - C-10	2220x1455x1085
Weight, kg: - C-10	232.0 400.0
Temperature range, °C: - operation - transportation and storage	-40...+50 -40...+50
Relative air humidity, %, max	95
Width of formed passage, mm	660
Throughput rate, per/min	30
Maximum number of connected control panels, pcs.	2
Width of blocked passage, mm	1455
Number of rotor blades, pcs.	3
Number of horizontal rods in blade, pcs.	10
Length of rotor blade rod, mm	590
Passage height, mm	2015
Service life, years	8

#### 1.1.4 Product structure.

The turnstile housing and the rotor gate are made of steel and painted with powder paint (color as selected).



Figure 1 – General view of the turnstile

The turnstile consists of:

- 1) fixed fencing panel (Figure 1 – 1);
- 2) moving fencing elements – rotor gate (Figure 1 – 2);

- 3) fixed fencing elements (Figure 1 – 3);
- 4) upper module (Figure 1 – 4);
- 5) actuating mechanism (Figure 1 – 5), located inside the upper module.

Removable cover with two locks are located in the upper part of the turnstile upper module for quick access to the control board upon connecting CP and ACS cables. The cable inputs are led to the fixed fencing panel post (Figure 1 – 6).

**Initial state of the turnstile** is closed (the turnstile is closed for passage in both directions).

Figure 2 – initial position of the flaps:

– when the turnstile is in initial state, passage area is covered by **one panel without forming a gateway**;

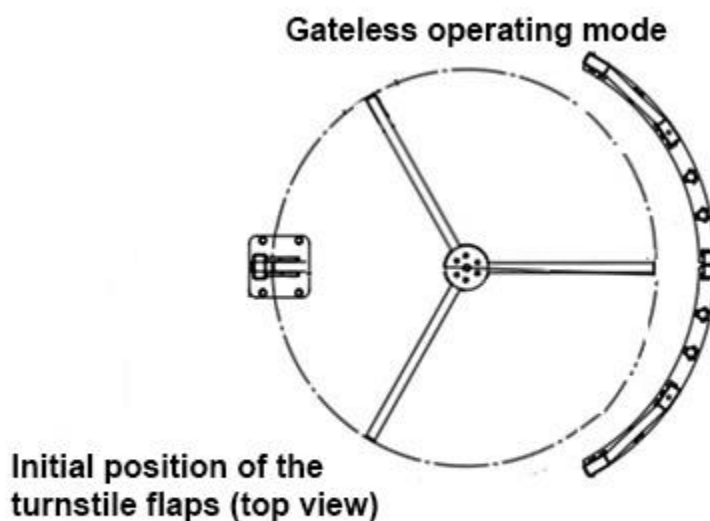
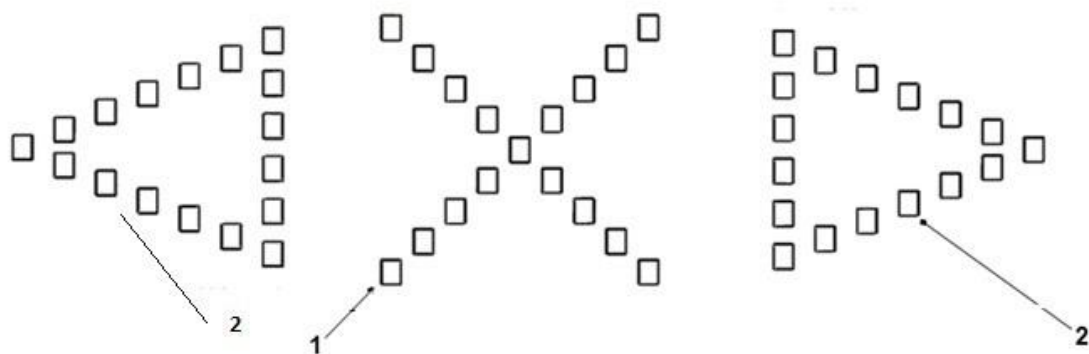


Figure 2 – Initial position of the flaps



### 1.1.5 Indication system

The turnstile indication system consists of a panel located on the inner post of the turnstile under the insert made of acrylic glass. Figure 3 – the operation modes of the turnstile are displayed on the panels in the form of mnemonic signs depicting authorization and non-authorization of passage.



**1 - passage lock; 2 - passage admission**

Figure 3 – Appearance of the indication panel

1.1.6 Marking contains manufacturer's trademark, designation, and serial number.

1.1.7 Overall dimensions of the packaging container are:

- 1) box No. 1 (HxWxL) 420X1070X1500;
- 2) box No. 2 (HxWxL) 565X890X2130.

## 1.2 Description and operation of Oxgard Praktika control panel

Universal Oxgard Praktika control panel is designed for controlling Oxgard turnstiles.

1.2.1 The housing is made of stainless steel and the control buttons and operating mode LED indicators are located on the front side. The specifications are given in Table 3.

Table 3 – Product specifications

Parameter	Value
Overall dimensions (HxWxL), mm	25x107x107
Weight, kg	0.5
Temperature range, °C: - operation - transportation and storage	+1...+40 +1...+40
Relative air humidity, %, max.	80
Service life, years	8
Supplied voltage, V - rated - operating	12.0 7.5...15.0

### 1.2.2 Design features:

- 1) Possibility to connect two control panels to one turnstile;
- 2) High noise immunity;
- 3) Standard length of the cable included in the package is 10 meters;

## 2 INTENDED USE

### 2.1 Operating limits



**ATTENTION:** FAILURE TO COMPLY WITH THE SAFETY REQUIREMENTS SPECIFIED IN THIS SECTION CAN RESULT IN DEATH AND DAMAGE TO HEALTH, COMPLETE OR PARTIAL LOSS OF PERFORMANCE OF THE PRODUCT AND/OR AUXILIARY EQUIPMENT.



**ATTENTION:** DURING THE PRODUCT OPERATION OBSERVE THE GENERAL SAFETY RULES FOR ELECTRIC INSTALLATIONS.



**ATTENTION:** THE TURNSTILE SHOULD BE INSTALLED BY QUALIFIED SPECIALISTS ACCORDING TO THE INSTALLATION MANUAL.



**ATTENTION:** MANUFACTURER WAIVES ANY RESPONSIBILITY FOR DEATH AND DAMAGE TO HEALTH, COMPLETE OR PARTIAL LOSS OF PERFORMANCE OF THE PRODUCT AND/OR AUXILIARY EQUIPMENT IF USER FAILS TO COMPLY WITH THE SAFETY REQUIREMENTS SPECIFIED IN THIS SECTION, AND ALSO VOIDS THE PRODUCT WARRANTY.



**DO NOT:**

OPERATE THE TURNSTILE IN CONDITIONS NOT MEETING THE REQUIREMENTS TO THE OPERATING CONDITIONS.

OPERATE THE TURNSTILE AT THE POWER VOLTAGE OTHER THAN SPECIFIED IN TABLE 2.

APPLY PASTES AND LIQUIDS CHEMICALLY AGGRESSIVE TO MATERIALS OF THE HOUSING WHEN CLEANING THE PRODUCT.

#### Operating conditions:

The turnstile by resistance to climatic impact belongs to modification U2 as per GOST 15150-69 (for outdoor operation). IP-54 protection class

The turnstile operation is allowed at an ambient temperature from -40 °C to +50 °C and relative air humidity up to 95 %.

The turnstile control panel by resistance to climatic impact belongs to modification UKhL4 as per GOST 15150-69 (for indoor use with artificially controlled climatic conditions).

The control panel operation is allowed at an ambient temperature from +1 °C to +55 °C and relative air humidity up to 80 % at +25 °C.

## **2.2 Preparing the product for use**

### **2.2.1 Safety measures during product preparation**



**ATTENTION:** TO AVOID INJURIES AND BLOCKING OF THE TURNSTILE, BEFORE CONNECTING THE TURNSTILE, CLEAR THE TURNSTILE ELEMENTS ROTATION AREA FROM PEOPLE AND FOREIGN OBJECTS.

### **2.2.2 Rules and procedures for visual inspection of the product**

Visual inspection of the product before connecting it to the mains shall be obligatory and include:

- 1) check for product housing mechanical damage: cracks, through holes resulted from fasteners drop-out;
- 2) thorough inspection of all connections of the product.

### 2.2.3 Turning on the product.

Connect the PSU to ~220 volts mains and turn it on. Turnstile voltage: 12 V.

Check the correctness of all connections of the main and auxiliary equipment.

Turn on the turnstile power supply unit.

Figure 4 – Check that the turnstile rotor is in the initial blocking position. If the rotor is installed not in zero position, a beep is heard signaling that the rotor is not in a zero point. An indication blinks on the turnstile indication panel indicating the side to which the turnstile must be turned to reach the zero position.

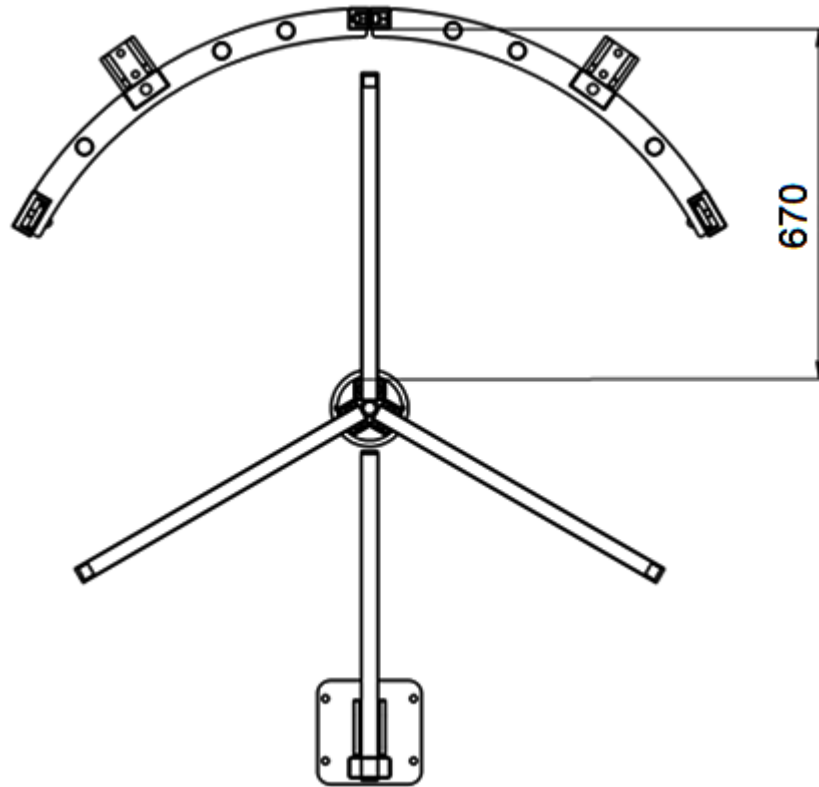


Figure 4 – Initial position of the rotor

Figure 4 – if the rotor is installed correctly, a red cross forbidding the passage will light up on the indication panel of the turnstile. Two beeps will sound.

LED indicator of the Stop button on the CP will light up red. The passage zone lighting lamps will light up.

The turnstile is ready to work. Check the product operation in all modes.

#### 2.2.4 Control panel appearance

Figure 5 – control buttons 1 (LEFT), 2 (STOP), 3 (RIGHT), 4 (ANTIPANIC) and LED indicators of the product operating modes.

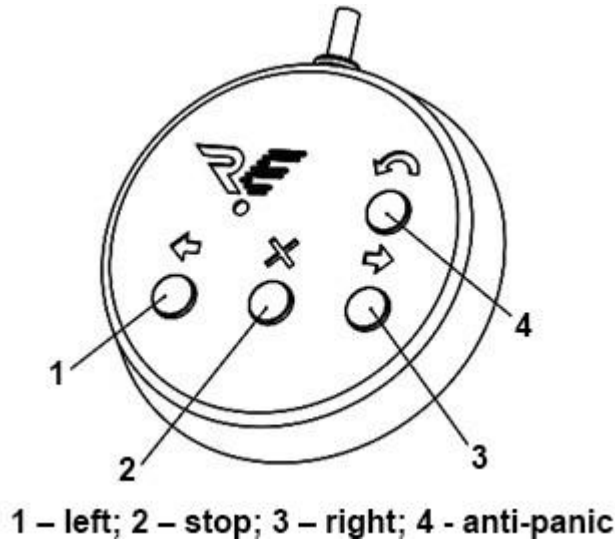


Figure 5 – Control panel appearance

## 2.3 Product operation

### 2.3.1 Product operating modes



**ATTENTION:** TO USE THE FULL SPECTRUM OF SETTINGS WITH USING THE CONTROL PANEL, A UNIVERSAL CONTROL PANEL UCP 02, WITH ADVANCED POSSIBILITIES, IS REQUIRED. BASIC CONTROL PANEL BCP 01 DOES NOT HAVE ALL OPPORTUNITIES OF UCP 02 AND DOESN'T HAVE AN INDICATION LIGHT.

The product can operate in several modes. Desired mode can be enabled using the CP or ACS. The indication of the operation modes is displayed on the indication panel in the form of mnemonic signs depicting authorization and non-authorization of passage. Work with ACS is considered in the Installation Manual.

### 2.3.2 Controlling the product using the control panel

Figure 5 – over each CP button, there is a LED indicator that displays the turnstile operating mode.

### STOP mode

The "STOP" mode is set when the product is turned on. For switching to the STOP mode from any other mode, press button 2; the LED indicator over button 2 lights red. The passage is non-authorized in both directions in this mode. When the rotor is deflected, the stopper will not let it rotate for passage.

### One-time passage mode

Button 1 (3) enables one-time passage mode to the left (right). When this mode is enabled, one pass to the left (right) will be allowed, followed by entering the "STOP" mode. The arrow indicator turns on the indication panel showing a free passage to the left (right).

On the CP, the LED indicator over the button, located on the side where passing is allowed, lights green, and lights red over button 2. If a pass has not been completed within 8 seconds, the product is automatically switched to "STOP" mode.

### Multiple passage in one direction mode (works with UCP 02 only)

To enter this mode, press and hold button 2, then press button 1 (3). Both buttons can be released thereafter.

Multiple pass mode is displayed on the control panel by green light above button 1 (3), the red LED indicator above button 2 is off. The arrow indicator on the indication panel shows the direction of the authorized passage.

The passage is allowed in the authorized direction for an unlimited number of times in this mode.

It is also possible to authorize a single pass into the non-authorized direction by pressing button 1 (3). The product will return to the original mode after this passage or within 8 seconds.



### Free passage mode

To enter this mode, press and hold button 1, then press button 3 and release both buttons. In this mode, passes in both directions are allowed for an unlimited number of times.

The arrow indicators on the indication panel blink in both directions. On the CP, the LED indicators over buttons 1 and 3 light green.

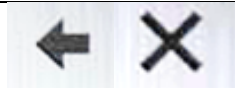

### Antipanic mode


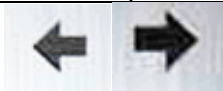
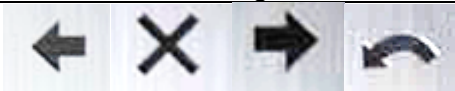


For switching to this mode from any mode, press button 4. The green arrows will blink on the indication panels on both sides. In this mode, passes in both directions are allowed for an unlimited number of times. The LED indicator of the universal control panel over button 2 lights yellow.

2.3.3 Controlling the product using the UCP 02 universal control panel (shown in Table 4).

To activate or change a particular setting, press and hold a certain combination of buttons. It is necessary to hold them for 8 or 16 seconds, until a sound signal and rapid flashing of all buttons backlight of the control panel **(for the control panels without sound, only the flashing of the backlight)**. During the application of the settings, when the indication is on, **DO NOT PRESS THE CONTROL PANELS BUTTONS!**

Table 4 – Turnstile settings using UCP 02

Function or operating mode	Buttons combination
Free passage to the left Short synchronous pressing (2-3 sec)	 Left Stop
Free passage to the right Short synchronous pressing (2-3 sec)	 Stop Right

Block free passage (press once)	 Stop
Free passage in both directions Short synchronous pressing (2-3 sec)	 Left Right
Control panel sound switch on/off - 1 beep (flashing backlight) <i>8 seconds</i> Factory Reset (Remote) - 2 beeps (backlight blinking) <i>16 seconds</i>	 Left, stop, right, anti-panic
Reverse remote control buttons ( <i>8 seconds</i> )	 Left, stop, right
Running Autotest <i>16 seconds</i>	 AP

## 2.4 Emergency procedures

To open passageway in emergency situation, use the ANTI-PANIC mode: in this mode, the rotor will unlock and passageway will be free.



**ATTENTION:** WHEN OPERATING THE PRODUCT, NOTE THAT ELECTRIC CIRCUIT CAN BE A SOURCE OF FIRE DANGER IN CASE OF SHORT CIRCUIT, INSULATION BREAKDOWN AND SPARKING.

In case of fire, switch external power supply off. Use powder extinguishers to extinguish fire in the product, wiring and cables.

## **3 MAINTENANCE**

### **3.1 General instructions**

Maintenance (hereinafter referred to as MNT) of the product shall be carried out in accordance with this Operation Manual.

3.1.1 To maintain product performance and ensure design service life, periodical in-service product MNT shall be performed, including during warranty period.

3.1.2 Scheduled maintenance shall be performed once every 6 months. If a fault occurs, maintenance should be performed immediately after troubleshooting.

3.1.3 Maintenance is recommended to be performed by two persons who are qualified mechanical and electromechanical specialists (or electricians), at least category 3, and who have read and understood this Operation Manual.

### **3.2 Safety precautions**

When performing maintenance, safety measures shall be observed. Maintenance shall be performed by specially trained technical personnel.

**DO NOT:**

PERFORM WORK WHEN THE TURNSTILE POWER IS ON. FAILURE TO COMPLY WITH THESE SAFETY REQUIREMENTS CAN RESULT IN DEATH AND DAMAGE TO HEALTH, COMPLETE OR PARTIAL LOSS OF PERFORMANCE OF THE PRODUCT AND/OR AUXILIARY EQUIPMENT.

REMOVE THE BRACKET FROM ITS MOUNTS WITH ROTOR POSITION SENSOR. OTHERWISE, THE MANUFACTURER WILL TERMINATE PRODUCT WARRANTY.



**ATTENTION:** IT IS NOT RECOMMENDED TO ADJUST SOLENOIDS' STROKE LIMITERS, BRACKET WITH ROTOR POSITION SENSOR, OR TO ADJUST TENSION OF THE SPRINGS. THESE ASSEMBLIES ARE FACTORY-ADJUSTED. FAILURE TO COMPLY WITH THESE ADJUSTMENTS MAY CAUSE MALFUNCTION OF THE ENTIRE ELECTROMECHANICAL SYSTEM.

WHEN REMOVING AND INSTALLING THE LARGE-SIZED AND HEAVY PARTS OF THE TURNSTILE PAY SPECIAL ATTENTION AND CARE, PREVENT FALLING OF THE PARTS.

### **3.3 Product maintenance procedure**

Maintenance includes the following scope of work:

- 1) visual inspection of the product condition;
- 2) partial disassembly of the turnstile, cleaning of the supporting frame;
- 3) checking fastening parts and assemblies of the turnstile;

- 4) lubrication of the wear-prone parts of the actuating device and locking mechanisms;
- 5) installing dismantled parts to their place;
- 6) general check of the turnstile operation.

### **3.4 Visual inspection of the product**

3.4.1 Visually inspect the product. There should be no visible damage on the product.

### **3.5 Partial disassembly of the product**

To get access to all necessary assemblies of the turnstile, the latter should be partially disassembled.

This scope of works includes disassembly of the cover with locks of the upper module.

3.5.1 Turn off the turnstile power supply and disconnect it from power mains.

3.5.2 Open the locks and remove the upper module cover.

### **3.6 Checking the product assemblies**

3.6.1 Clean the supporting frame from contamination.

3.6.2 Clean inner parts of the upper module from dirt.

3.6.3 Check that all cables are securely attached.

3.6.4 Check and, if necessary, tighten threaded connections of the fasteners of the turnstile assemblies.

### 3.7 Lubricating moving parts of the product mechanism



Lubricate with Litol 24 grease. Figure 6 – product mechanism lubrication points.

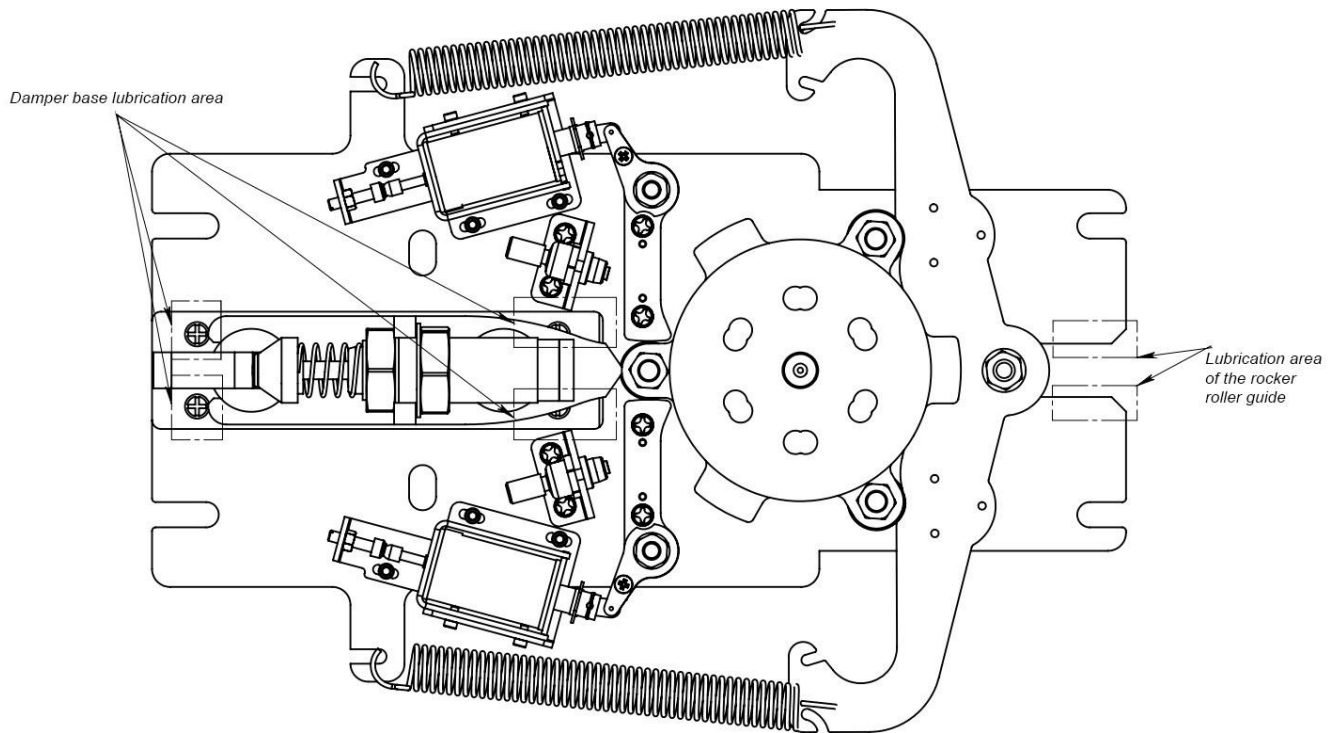


Figure 6 – Product mechanism lubrication points

### 3.8 Product assembly and testing

Assemble the product:

- 1) install the doors with locks of the upper module;
- 2) turn up the turnstile power;
- 3) perform a health check by performing several test passes and switching to the 'Anti-panic' mode.

If extraneous noise and any violations of operating modes are absent, the turnstile is ready for operation.

If any defects in the product assemblies are found during the product MNT, we recommend to contact service department for advice.

List of addresses of official distributors and service centers is given in Appendix A and is also available at the website: [www.oxgard.ru](http://www.oxgard.ru)



If it is necessary to repair (for T-10 product only) damaged painted surfaces, use powder paint identical to the damaged one (RAL9005) in accordance with the paint instructions for application.



## 4 ROUTINE REPAIRS

### 4.1 Routine repairs of the product

No routine repairs are provided for the product. If the faults listed in Table 4 occur, take the following actions.

Table 5 – Typical product malfunctions

Malfunction	Action
PSU is connected, but the turnstile does not work	Check if the cables are connected correctly; Check the fuse on the cross-board.
When switching on the turnstile a continuous audio signal is heard	Install the rotor in zero position

If any other problems occur, contact service department.

### 4.2 Routine repairs of the product components

Routine repairs of the product components shall be carried out by replacing faulty parts with known good ones. When such replacement is impractical or there

are no known good components available for the product, a proprietary repair method shall be used.

### **4.3 Malfunctions during warranty period**

When malfunction occurs during warranty period (Logbook VZR.249600.000 LB), please send a claim to the manufacturer.

To do this:

- 1) prepare a technically substantiated Claim Report;
- 2) make extracts from the LB section "Repair".
- 3) make extracts from the LB section "Preservation".

## 5 STORAGE

The product shall be stored in dry (without moisture condensation) rooms at a temperature from -40 to + 50 °C. The storage room should be free of acid or alkali vapors, or corrosive gases.

## 6 TRANSPORTATION

The product in the original package can be transported without range limitation by air, enclosed road and rail transport provided it is protected against direct exposure to precipitation and dust.

When transporting and storing products on Euro pallets, it is allowed to stack boxes in 2 rows.

Loading and unloading operations should be carried out in compliance with safety regulations.

## 7 DISPOSAL

Upon expiry of its service life, the product shall be disposed along with its components.

Examples of such disposal can be product disassembly (dismantling) and sorting its components into groups of similar parts, converting the product into a learning aid or using for purposes other than intended use.

## APPENDIX A — DISTRIBUTORS AND SERVICE CENTERS

Lists of official distributors and service centers are given in Tables 5-6 and are constantly updated. The latest information is available at website [www.oxgard.ru](http://www.oxgard.ru).

Table 6 – Distributors and service centers in Russia

Item No.	Company	Contact details	Status
1	Elics Trading House	3 M. Semyonovskaya st., 107023, Moscow (Elektrozavodskaya metro station) 7 (495) 725–66–80 <a href="http://www.elics.ru">www.elics.ru</a> , <a href="mailto:elics@elics.ru">elics@elics.ru</a>	Distributor Service center Warehouse
2	Luis + LLC	125040, Moscow, Center, 1st Yamskogo Polya st., 28 7 (495) 637–63–17, 7 (495) 280–77–50 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis@luis.ru">luis@luis.ru</a>	Distributor Warehouse
3	Luis + LLC	192029, St. Petersburg, Obukhovskoy Oborony Ave., 70, bld. 3A 7 (812) 331–40–41; <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis-spb@luis-spb.ru">luis-spb@luis-spb.ru</a>	Distributor Warehouse
4	Luis + LLC	400081, Volgograd, Bureyskaya st., 7 7 (8442) 43–97–98 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:info@luis-don.ru">info@luis-don.ru</a>	Distributor Warehouse
5	Luis + LLC	620100, Yekaterinburg, Sibirsky Trakt st., 12, bld. 6 7 (343) 298–20–28 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:info@luis-ural.ru">info@luis-ural.ru</a>	Distributor Warehouse
6	Luis + LLC	350051, Krasnodar, Dalnyaya st., 2 7 (861) 273–99–03 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:info@luis-don.ru">info@luis-don.ru</a>	Distributor Warehouse
7	Luis + LLC	Republic of Tatarstan, 420059, Kazan, Orenburg Tract, 128, bld. 1 7 (843) 204–22–33 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis@luis.ru">luis@luis.ru</a>	Distributor Warehouse
8	Luis + LLC	603086, Nizhny Novgorod, Manufakturnaya st., 14, room 1 7 (831) 214 –71–17 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis@luis.ru">luis@luis.ru</a>	Distributor Warehouse

Item No.	Company	Contact details	Status
9	Luis + LLC	630007, Novosibirsk, Fabrichnaya st., 10 7 (383) 285-33-77 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis@luis.ru">luis@luis.ru</a>	Distributor Warehouse
10	Luis + LLC	614064, Perm, Chkalov st., 7a 7 (342) 206-07-47 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis@luis.ru">luis@luis.ru</a>	Distributor Warehouse
11	Luis + LLC	344029, Rostov-on-Don, Menzhinsky st., 4A 7 (863) 261-82-10 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:info@luis-don.ru">info@luis-don.ru</a>	Distributor Warehouse
12	Luis + LLC	443028, Samara, 18 km of Moscow Highway 7 (846) 203-04-24 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:samara@luis.ru">samara@luis.ru</a>	Distributor Warehouse
13	Luis + LLC	625048, Tyumen, Ervye st., 9 7 (3452) 48-95-20 7 (3452) 48-95-40 7 (3452) 48-95-35 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:samara@luis.ru">samara@luis.ru</a>	Distributor Warehouse
14	Luis + LLC	454090, Chelyabinsk, Lenin Ave., 35 7 (351) 220-00-72 <a href="http://www.luis.ru">www.luis.ru</a> <a href="mailto:luis@luis.ru">luis@luis.ru</a>	Distributor Warehouse
15	Layta Trading House	410056, Saratov, Ulyanov st., 17A 7 (8452) 392-057, 7 (8452) 735-575 7 (8452) 524-586 <a href="http://www.layta.ru">www.layta.ru</a> <a href="mailto:info@layta.ru">info@layta.ru</a>	Dealer
16	Layta Trading House	355000, Stavropol, Pirogov st., 20A 7 (8652) 550-111 7(8652) 551-529 7 (8652) 552-311 7 (8652) 552-411 7 (8652) 553-211 <a href="http://www.layta.ru">www.layta.ru</a> <a href="mailto:info@layta.ru">info@layta.ru</a>	Dealer
17	Bezopasnost	Moscow, 12th Parkovaya st., 5 7 (495) 150-10-71 (multi-line) <a href="mailto:sales@podkontrolem.ru">sales@podkontrolem.ru</a> <a href="http://www.podkontrolem.ru">www.podkontrolem.ru</a>	Dealer Service center
18	Pocketkey	123290, Moscow, Prichalny Driveway, 8, building 1, room 502 7 (495) 107-09-10 <a href="mailto:hello@pocketkey.ru">hello@pocketkey.ru</a> <a href="http://www.pocketkey.ru">www.pocketkey.ru</a>	Dealer
19	Ravelin LTD.	Professor Popov st., 4 7 (812) 327-50-32 <a href="mailto:ravelin@ravelinspb.ru">ravelin@ravelinspb.ru</a> , <a href="http://www.ravelinspb.ru">www.ravelinspb.ru</a>	Dealer Service center
20	Corporate Business Systems	123181, Moscow, Isakovskiy st., 33, bld. 3 7 (495) 234-68-51 <a href="http://www.cbs-group.ru">www.cbs-group.ru</a> <a href="mailto:sales@cbs-group.ru">sales@cbs-group.ru</a>	Dealer Service center

Item No.	Company	Contact details	Status
21	Corporate Business Systems	344002, Rostov-on-Don, Solyanoy Spusk Lane, 8-10, 34 7 (495) 234-68-52 <a href="http://www.cbs-group.ru">www.cbs-group.ru</a> <a href="mailto:sales@cbs-group.ru">sales@cbs-group.ru</a>	Dealer Service center
22	Inforser (Unified System Technologies) Group	109428, Moscow, Ryazansky Ave., 24, bld. 2 7 (495) 660 17 33 <a href="http://www.inforser.ru">www.inforser.ru</a>	Dealer Service center
23	Benar	Khabarovsk, Neftyanaya st., 14 8 962 587 11 69 <a href="mailto:бeнap.пф">бeнap.пф</a> <a href="mailto:sales@khab-tech.ru">sales@khab-tech.ru</a>	Dealer Service center
24	ATM	St. Petersburg, Revolyutsii Highway, 31 7 (812) 640-85-84 7 (812) 655-62-05 <a href="http://www.atmcompany.ru">www.atmcompany.ru</a> <a href="mailto:info@atmcompany.ru">info@atmcompany.ru</a>	Dealer
25	Center for Security Systems, CJSC	195197, St Petersburg, Polyustrovsky Ave., 32, Letter K, office 201 7 (812) 240-31-00 <a href="mailto:market@cesb.ru">market@cesb.ru</a> , <a href="http://www.cesb.ru/">http://www.cesb.ru/</a>	Dealer
26	SMNP-3 LLC	Magadan, Gorkogo st., 8 7 (41322) 307 47 <a href="mailto:fuks@smnp-3.ru">fuks@smnp-3.ru</a>	Dealer Service center
27	IT Solutions for Business	236009, Kaliningrad, Krasnokamennaya st., 42 7 (4012) 33-79-18 7 (4012) 76-79-18 <a href="mailto:it@it-sb.ru">it@it-sb.ru</a>	Dealer
28	Intellectual Systems	394006, Voronezh, Chelyuskintsev st., 145 7 (473) 250-20-01 <a href="mailto:inbox@int-sys.ru">inbox@int-sys.ru</a>	Dealer
29	Intellectual Systems	398026, Lipetsk region, Lipetsk, Zhelyabov st., 2, office 307. 7 (4742) 51-58-77 <a href="mailto:inbox@int-sys.ru">inbox@int-sys.ru</a>	Dealer
30	Tinko Trading House	111141, 3rd Perova Polya Driveway, 8 (Perovo Polye Business Center, 3rd floor), Perovo metro station 7 (495) 708-42-13 <a href="http://www.tinko.ru">www.tinko.ru</a> <a href="mailto:tinko@tinko.ru">tinko@tinko.ru</a>	Sub-dealer
31	Satro-Paladin LLC	129515, Moscow, Kondratyuk st., 9, bld. 1 7 (831) 272-55-75 7 (831) 412-93-11 <a href="http://www.satro-paladin.com">www.satro-paladin.com</a> <a href="mailto:dir@nn.satro-paladin.com">dir@nn.satro-paladin.com</a>	Dealer
32	Satro-Paladin LLC	603070, Nizhny Novgorod, Meshchersky Ave., 7, bld. 3, office 10 7 (831) 272-55-75 7 (831) 412-93-11 <a href="http://www.satro-paladin.com">www.satro-paladin.com</a> <a href="mailto:dir@nn.satro-paladin.com">dir@nn.satro-paladin.com</a>	Dealer



Item No.	Company	Contact details	Status
33	Satro-Paladin LLC	400009, Volgograd, Tarifnaya st., 13 7 (8442) 56-49-94 7 (8442)71-08-01 7 (8442)76-56-29 www.satro-paladin.com dir@nn.satro-paladin.com	Dealer
34	Videoglaz Center LLC	105187, Moscow, Volnaya st., 35, bld. 19 7-(495)-280-71-70 www.videoglaz.ru zakaz@videoglaz.ru	Dealer
35	Videoglaz	St. Petersburg, Ligovsky Ave., 266V, 3rd floor 7 (812) 245-28-24 www.videoglaz.ru zakaz@videoglaz.ru	Dealer
36	OOO Birzha	29-33 Nizhegorodskaya str., bld. 32, office 402 7 (495) 229-45-15 www.global-id.ru info@global-id.ru	Dealer
37	STELS LLC	Amur region, Blagoveshchensk, Artileriyevskaya st., 17 7 (4162) 777-888 7 (4162) 525-777 7 (4162) 519-777 www.global-id.ru ctb@stels-amur.ru sale@stels-amur.ru	Dealer Service center Warehouse
37	Complex Security Systems Group	Vladikavkaz, Kolka Kesaev st., 3 7 (8672) 40-35-4 7 (8672) 40-58-94 www.ksb-rso.ru ksb-rso@mail.ru	Dealer Service center
39	Profbezopasnost LLC	Sochi, Rose st., 115/1 7 (800) 700-51-90 www.profbez.pro info@profbez.pro sale@profbez.pro	Dealer Service center
40	APL LLC	St. Petersburg, 9th Sovetskaya st., 4, office 312 7 (812) 401 63 34, 7 921 55 111 01 www.aplspb.ru info@aplspb.ru	Dealer Service center
41	ALPRO	Address: 194100, St. Petersburg, Bolshoy Sampsonievsky Ave., 70, letter V, room 3N, POLAR Business Center 7 (812) 702-17-52 www.alpro.ru sales@alpro.ru	Dealer
42	InfoTec LLC	St. Petersburg, Moskovsky Ave., 103/3 7 (812) 327 95 10 7 (812) 327 95 06 www.infotec.ru contact@infotec.ru	Dealer
43	ForTrade LLC	196105, St. Petersburg, Lyubotinsky Ave., 5, Letter "B", office 310 8 (812) 309-58-53 www.fteq.ru 4trade@fteq.ru	Dealer

Item No.	Company	Contact details	Status
44	Grumant Corporation LLC	630123, Novosibirsk, Krasnogorskaya st., 27a 8 (383) 210-352-353 <a href="http://www.grumant.ru">www.grumant.ru</a> <a href="mailto:info@grumant.ru">info@grumant.ru</a>	Dealer
45	Grumant Corporation LLC	107553, Moscow, 1st Pugachev st., 25, office 118 7 (495) 783-29-60 7 (499) 161-06-91. <a href="http://www.grumant.ru">www.grumant.ru</a> <a href="mailto:mf@grumant.ru">mf@grumant.ru</a>	Dealer
46	Grumant Corporation LLC	299038, Crimea, Sevastopol, Kolobov st., 35/4 7 (978) 744 38-86 7 (978) 744-38-59 <a href="http://www.grumant.ru">www.grumant.ru</a> <a href="mailto:krim1@grumant.ru">krim1@grumant.ru</a> <a href="mailto:krim2@grumant.ru">krim2@grumant.ru</a>	Dealer
47	Modus Trade LLC	644046, Omsk, Mayakovsky st., 14 7 (3812) 51-00-93 7 (3812) 51-07-29	Dealer

Table 7 – Foreign distributors and service centers

Item No.	Company	Contact details	Status
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Item No.	Company	Contact details	Status
1	VZR System OU	Tulika tn 19, Tallinn 372 5844 4957 8 921 996 2746 <a href="http://www.vzrsystem.ee">www.vzrsystem.ee</a> <a href="mailto:info@vzrsystem.ee">info@vzrsystem.ee</a>	Distributor Warehouse
2	VZR System OU	Hofer St. 39 95183 Feilitzsch-Zedtwitz Deutschland 372 5844 4957 8 921 996 2746 49 9281 140 11 65 49 928 1 140 11 16 <a href="http://www.multitrans.net">www.multitrans.net</a> <a href="mailto:ksemjonow@multitrans.net">ksemjonow@multitrans.net</a> <a href="mailto:ue@multitrans.net">ue@multitrans.net</a>	Distributor Warehouse
3	TD INTANT, LLP	Republic of Kazakhstan, Almaty, Muratbayev st., 61 7 (727) 225-35-35 7 (727) 220-95-31 <a href="http://www.security.intant.kz">www.security.intant.kz</a> <a href="mailto:intant@intant.net">intant@intant.net</a>	Dealer Warehouse
4	A+A Security MMC	AZ1110, Azerbaijan, Baku, Akhmad Bay Aga oglu st. 24B 8 (+994 12) 496-00-56 <a href="http://www.aasecurity.az">www.aasecurity.az</a> <a href="mailto:info@aplusa-security.com">info@aplusa-security.com</a>	Dealer
5	Victiana S.R.L. (Videosecurity Moldova)	Republic of Moldova, Chisinau, Hajdeu st., 66/3 373 (22) 876-000 373 (22) 876- 001 <a href="http://www.videosecurity.md">www.videosecurity.md</a> <a href="mailto:info@videosecurity.md">info@videosecurity.md</a>	Dealer
6	Security and Safety Systems Unitary Enterprise	Minsk, Petr Glebka st., 1 375 (17) 390-66-66 (multi-line) Mob.: +375 (33) 340-11-11 (MTS) <a href="http://www.sob.by">www.sob.by</a> <a href="mailto:info@sob.by">info@sob.by</a>	Dealer Service center
7	OÜ Almasel	Mustamäe tee 102-106 Tallinn Harjumaa 12917 Tel +372 59192909 <a href="mailto:info@almasel.com">info@almasel.com</a>	Service center

## ABBREVIATIONS

The following abbreviations are used in this document:

LB — Logbook;

OM — Operation Manual;

IM — Installation Manual;

PSU — power supply unit;

CP—control panel symbol;

BCP 01 — basic control panel;

UCP 02 – universal control panel;

ACS — access control system;

MNT — maintenance.





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[info@oxgard.com](mailto:info@oxgard.com)

