# B200

MOUNTING AND CONNECTING INSTRUCTIONS

English

## 1. INTRODUCTION

**Please read the instructions carefully before proceeding.**
**Electronic control unit with microswitch for operator's control**
**Keypad / single button interface.**
**Infrared photocell management .**
**User can select Auto-close function.**
**Manual key release for emergency purposes.**

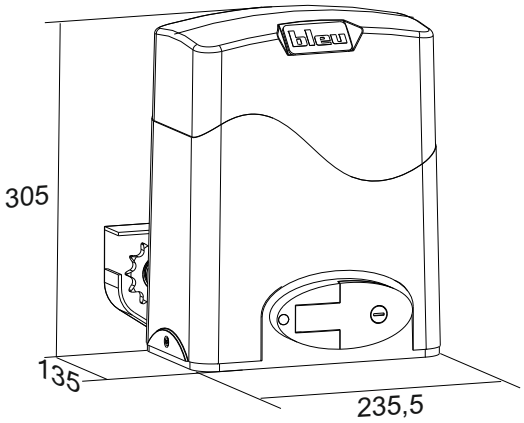
## 2. IMPORTANT SAFETY INFORMATION

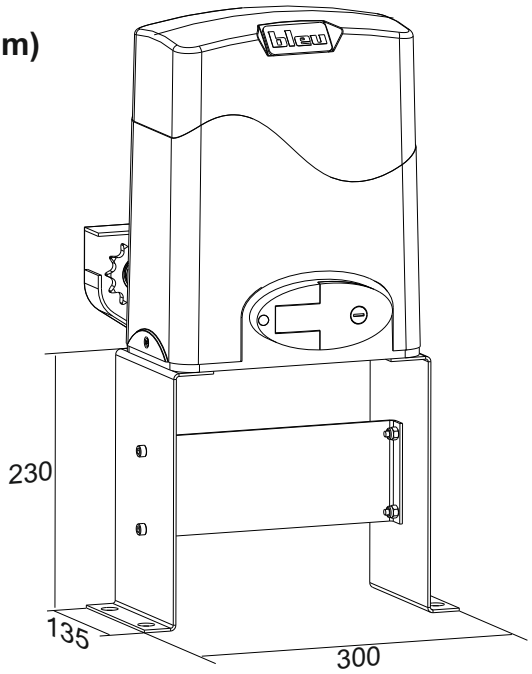
Carefully read and follow all safety precautions and warning before attempting to install and use this automatic gate operator.

***Make sure the Power supply (AC230V or AC115V) of the gate operator is suitable for the power supply in your area.***

*Assembled in Italy*

**Dimensions (mm)**




## 3. MAIN TECHNICAL PARAMETERS

| SPECIFICATIONS | B200 230V | B200 115V | B200 24V (230V) | B200 24V (115V) | B200 GP 115V |
|---|---|---|---|---|---|
| Power supply | 230V, 50Hz | 115V, 60Hz | 230V, 50/60Hz | 115V, 50/60Hz | 115V, 60Hz |
| Motor speed | 55rpm | 66rpm | Adjustable | Adjustable | 66rpm |
| Capacitor | 12 µF | 35 µF | - | - | 35 µF |
| Rated motor power output | 200W | | 100W | 100W | 200W |
| Max. gate weight | 600Kg | | 300Kg | 300Kg | 350Kg |
| Torque output | 16Nm | | 8Nm | 8Nm | 16Nm |
| Limit switch | Magnetic | | | | |
| Duty cycle | S2, 15 minutes | | | | |
| Environmental temperature | -20°C~+50°C | | | | |
| Gate Move speed Z17 | 12m/min | 14m/min | Adjustable | Adjustable | 0,24 cm/s (with chain) |
| Gate Move speed Z13 | 9m/min | 11m/min | Adjustable | Adjustable | - |

**Attention: The motor comes without anti-squeezing security device, therefore it is necessary to use photocells and security edges.**

## 4. MECHANICAL INSTALLATION

The B200 is an operator for gates with a weight of max. 600 Kg and a length of max. 8m / 12 m.
The gate operator operates by forcing a drive rack by a drive gear.
The gate operator must be installed on the inside of the gate.

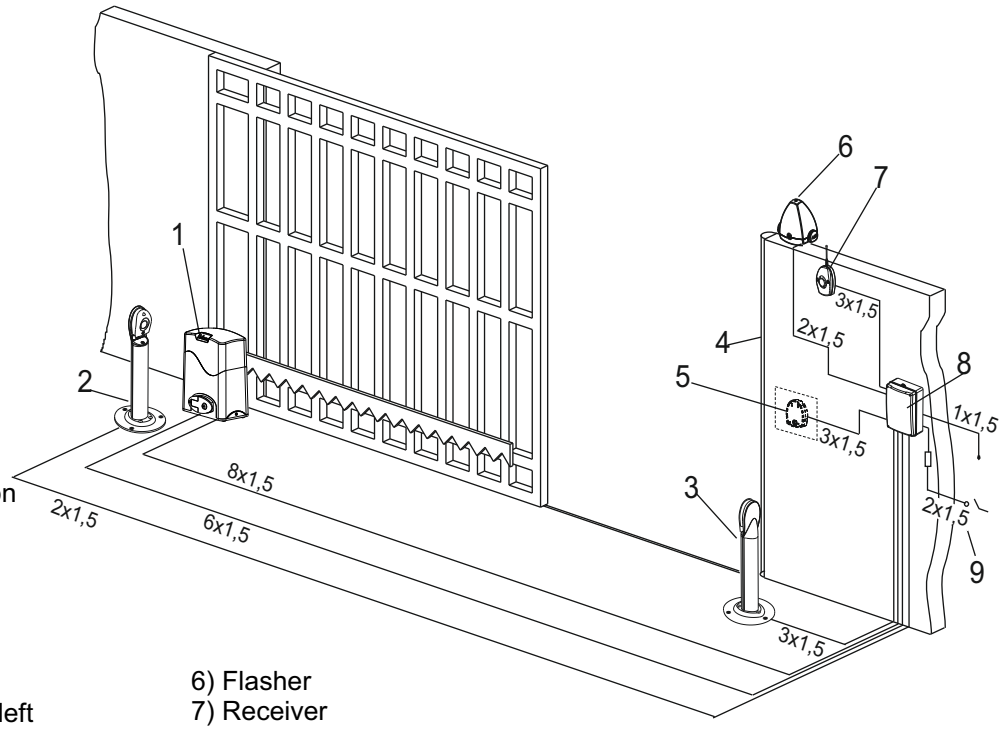



Fig.1
Standard installation

1) B200
2) Photocell left
3) Photocell right
4) Mechanical safety edge
5) Key push botton
6) Flasher
7) Receiver
8) Junction box
9) Differential 16A - 30mA

Gate arrangement

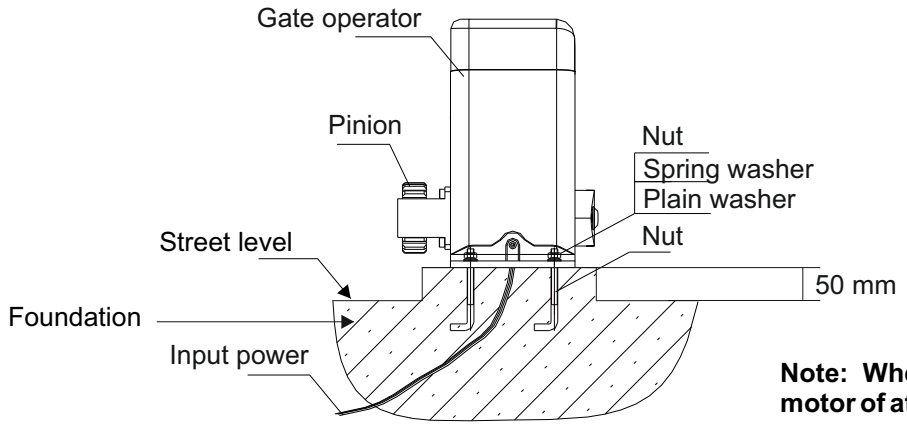
Before starting with the installation check if all the gate parts (fixed and mobile) have a strong and as less as possible deformable structure, also make sure that :
a) The leaf is rigid and compact;
b) The inferior slideway is perfectly straight, horizontal and without any obstacles which could obstruct the gate sliding;
c) The inferior sliding wheels are equipped with greasable or water tightened bearings;
d) The superior slideway has been produced and placed so that the gate is in a perfect vertical position;
e) Mechanical stops of the leaf are always installed in order to avoid possible derailment of it.

Concrete pad

The base unit of the gate operator requires a concrete pad in order to maintain proper stability. The concrete pad should be approximately 450mm x 300mm x 200mm deep in order to provide for adequate weight and structure to insure proper stable installation.

Anchors (see Fig.2)

You can use anchor bolts, anchors, wa shers and nuts. These anchors must be set into the concrete when it is poured or you can use wedge anchors to fasten the operator.




**Note: Where possible raise the motor of at least 50 mm.**

Fig.2

Operator base (see Fig.3)

After the concrete has hardened, mount the gate operator base to the concrete pad. Verify that the base is properly leveled. Using bolts and washers mount the gate operator to the base and insert the cover. Check the operator and make sure it is lined up with the gate.


Fig.3

Installation of Rack

- Fix the three nuts (in the same package with rack) on the rack element.
- Lay the first piece of rack on the gear and weld the first nut on the gate.
- Move the gate manually, checking if the rack is resting on the gear, and weld the second and third nut.
- Bring another rack element near to the previous one. Move the gate manually and weld the three nuts as the first rack, thus proceeding until the gate is fully covered.
- When the rack has been installed, make sure it meshes correctly with the gear.
- The space between rack and gear is about 0.5mm.

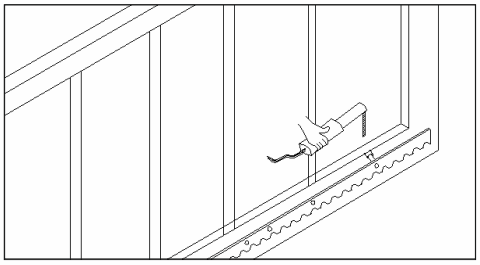


Fig.4

## 5. ADJUSTMENT

Magnetic limit switch

- To ensure safety, it is recommended to install limit switches at both ends of the gate to prevent the gate from sliding out of the rails. The rails must be installed horizontally.

- Install the limit switch sheet as shown in Fig.7 and Fig.8. The limit switch magnet and limit switch sheets are used to control the position of the gate.

- Release the gear with the key and push the sliding gate manually to pre-determine the position, fix the limit switch sheet to the rack and lock the gear by pulling the release lever. Moving the gate electrically, adjust the limit switch sheet to the proper position until the position of the opening and closing meet the requirement.

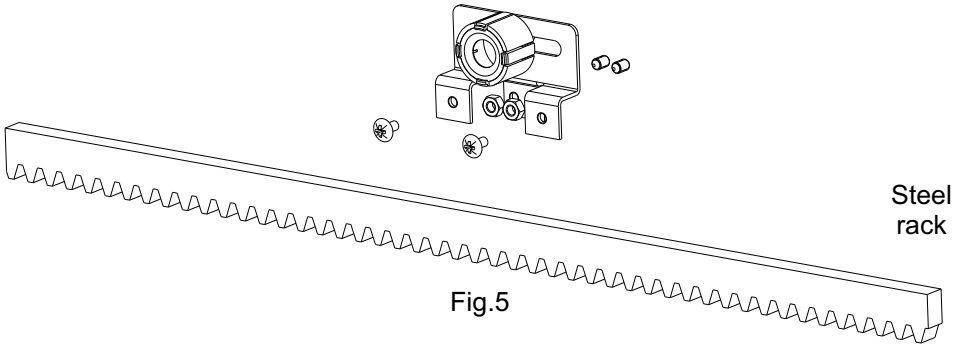



Fig.5

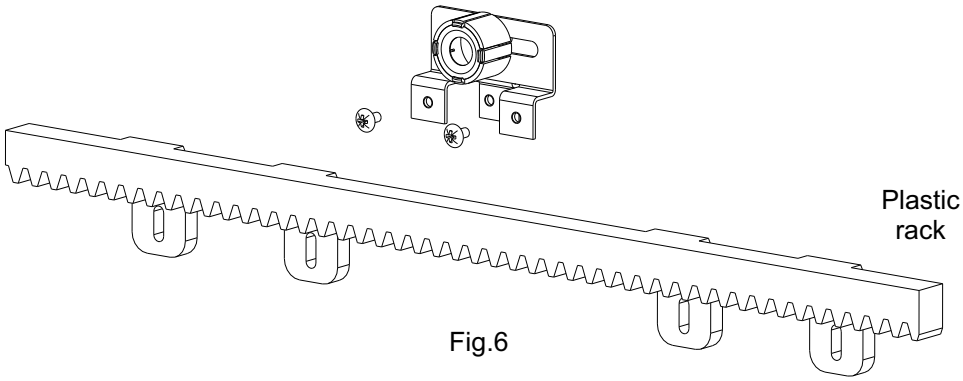
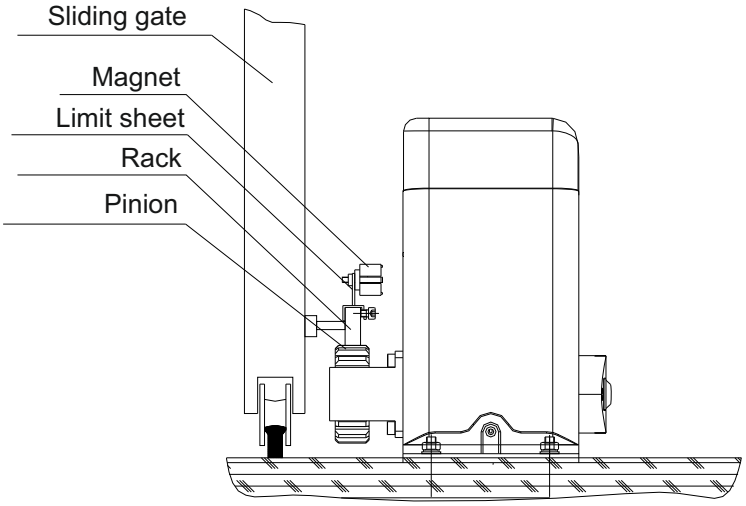
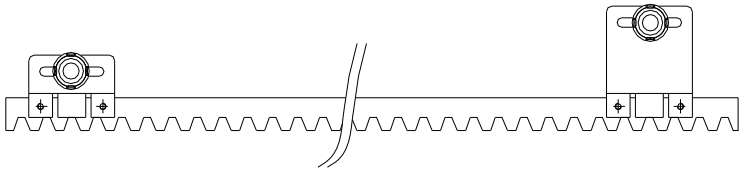



Fig.6

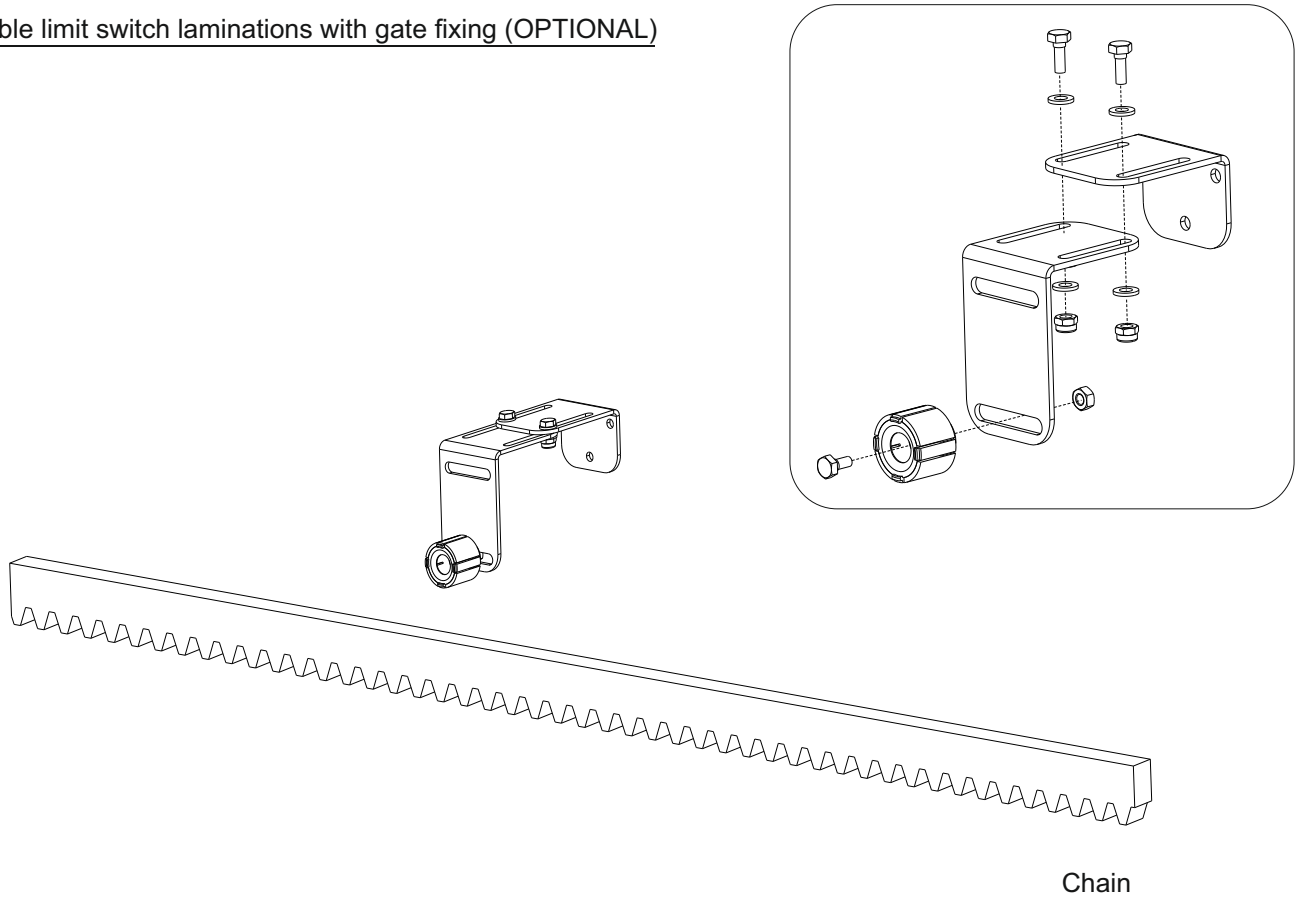



Magnetic limit switch
Fig.7



Magnetic limit switch
Fig.8

Adjustable limit switch laminations with gate fixing (OPTIONAL)



Chain

Fig.9

## 6. ASSEMBLING OF THE CHAIN SYSTEM

The assembling of the main parts which include the whole chain automation is illustrated in Fig. 10.

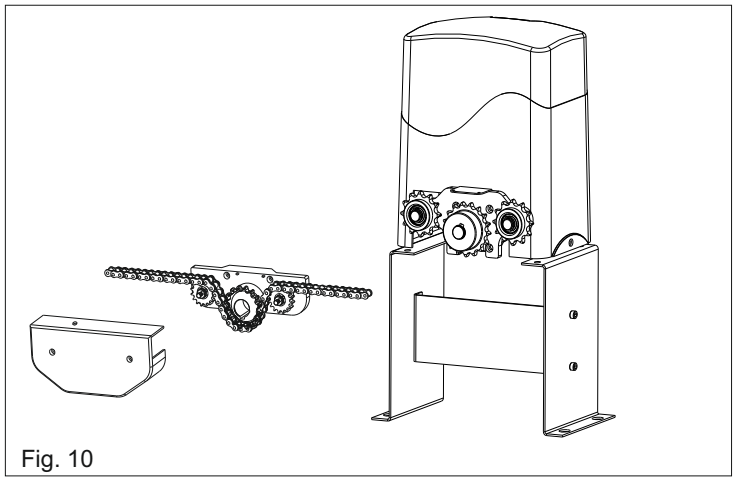


Fig. 10

In the pictures 11 and 12 it is possible to see the correct installation with opened and closed gate respectively; notice the obliged run of the chain inside the pinion group which must not be modified.
For a correct installation follow carefully the indications written below:

**6.1.** Weld two strong pierced brackets to the two extremities of the gate to couple the chain.
**Notice: the holes for the chain tensioner and so the chain itself must be to a minimum distance of 40 mm from the gate (Fig. 13).**

**6.2.** Install the chain making it pass through the pinion group as in Fig.10.
The chain must be always in line both vertically (Fig. 11) and orizontally (Fig.12), if not perfectly aligned (Fig. 14 and 15) it may derail from the pinion group or the motor reducer risks a greater effort not allowing the right operating of the system.

**6.3.** Set up a fillet chain tensioner to the two extremities of the gate to regulate the tension of the chain.
**Notice: do this last operation with the engine completely unlocked through the special unlocking key.**

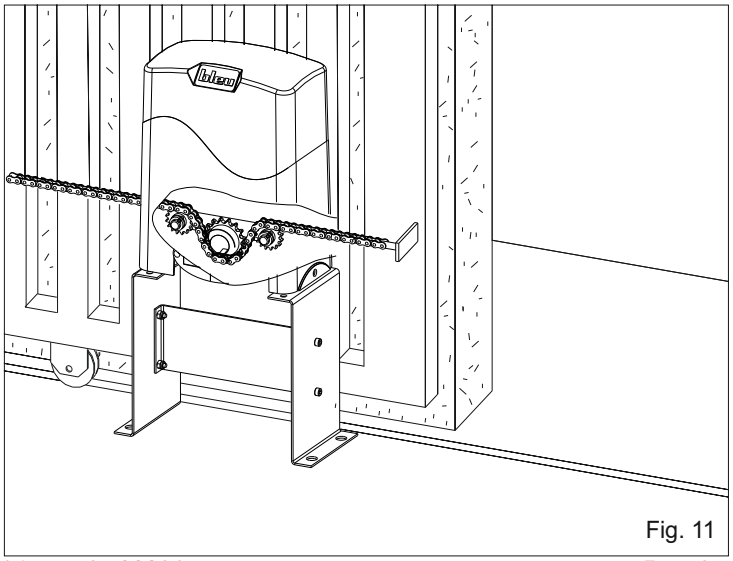


Fig. 11

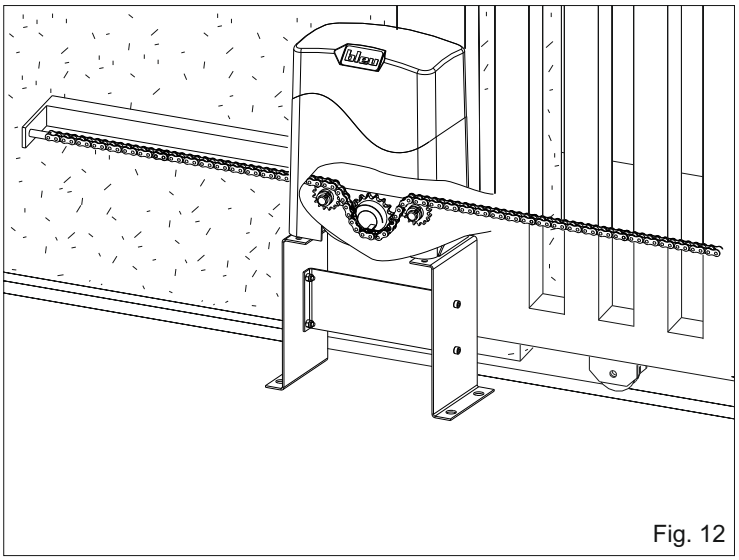


Fig. 12

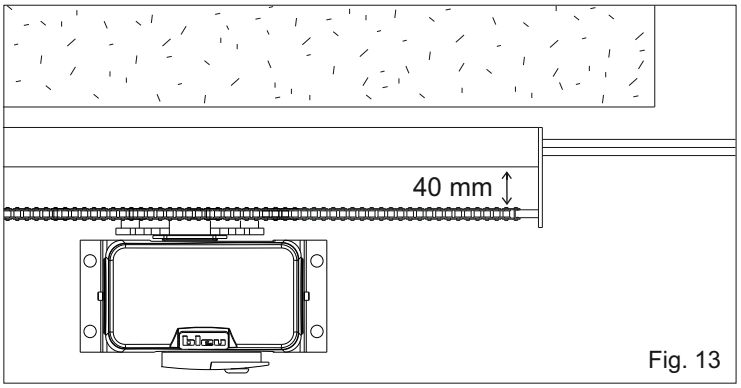



Fig. 13

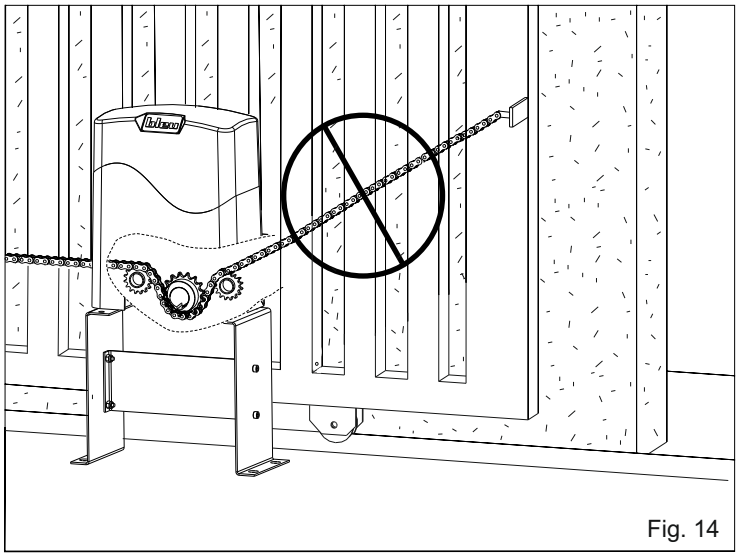


Fig. 14

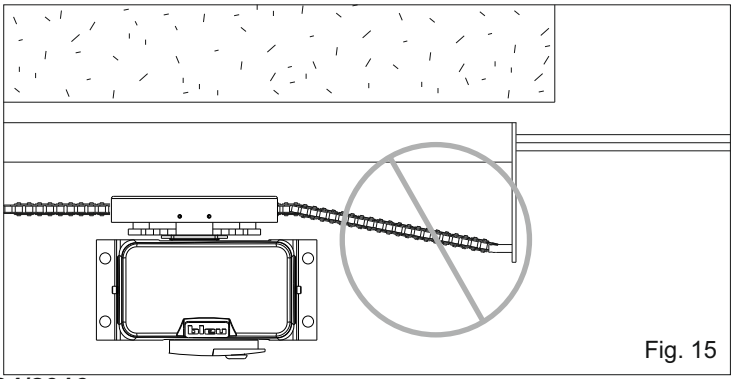


Fig. 15

## 7. RELEASE SYSTEM FOR BOXER

**In order to release do as follows:**
- Insert the key and rotate it 90° counter-clockwise (Fig. 16).
- Pull the release lever until it stops, about 90° approximately (Fig. 17).

**In order to relock do as follows:**
- Push the release lever to complete closing.
- Rotate the key clockwise and extract it.

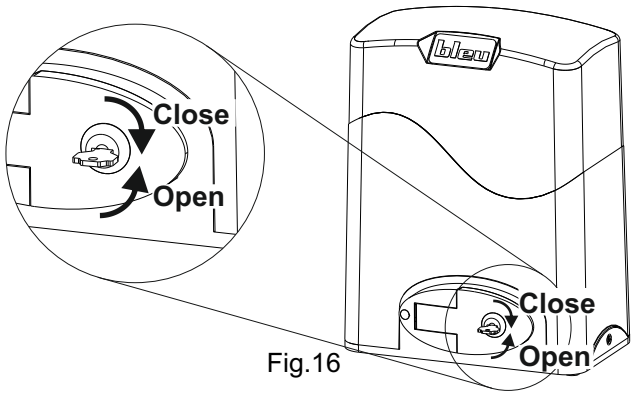


Fig.16

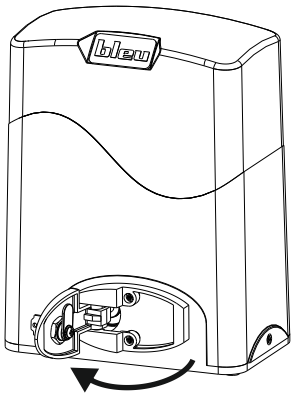


Fig.17

## 8. MAINTENANCE

- Check the door once a month. The door should be carefully checked for balance. The door must be in good working order.
- We suggest for safety reasons, photocells be used on all gates.
- Disconnect from mains supply before replacing bulb.
- Be sure to read the entire manual before attempting to perform any installation or service to the door operator.

**NOTICE:**
Bleu by SEA can not be deemed responsible for any damage or accident caused by product breaking, being damages or accidents due to a failure to comply with the instructions herein.
The guarantee will be void and the manufacturer responsibility will be nullified if original Bleu by SEA spare parts are not being used.

**SAFETY PRECAUTIONS:**
All electrical work and the choice of the operating logic should conform to current regulations. A 16 A 0,030 A differential switch must be incorporated into the source of the operators main electrical supply and the entire system properly earth bonded. Always run mains carrying cables in separate ducts to low voltage control cables to prevent mains interference.

**NOTE: THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT.**

*Bleu by SEA reserves the right to do changes or variations that may be necessary to its products with no obligation to notice.*

## 9. PACKING LIST

After receiving the gate operator, you should make an unpack-inspection, in which you should check whether the product was damaged. If you have any problem please contact our dealer. You should find the following items in our standard packing:

| No. | Item | Quantity |
|---|---|---|
| 1 | Sliding gate operator | 1 |
| 2 | Release key | 2 |
| 3 | User's manual | 1 |